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

DATA PACKAGE

VOLATILE ORGANICS

PROJECT NAME : EMERSON VAPOR INTRUSION REG006-0309010-25011690

APEX COMPANIES, LLC.

485 Route 1 South, Building B, Suite 130

Iselin, NJ - 08830

Phone No: 973-475-5502

ORDER ID : Q3037

ATTENTION : Michael Dziedzic

Laboratory Certification ID # 20012

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Cover Page

Order ID : Q3037

Project ID : Emerson Vapor Intrusion REG006-0309010-25011690

Client : Apex Companies, LLC.

Lab Sample Number	Client Sample Number
Q3037-01	IA-2

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

Signature : _____ Date: 9/16/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

SHIPPING DOCUMENTS

Alliance TECHNICAL GROUP

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

Alliance Project No. : Q3037

Client Contact Information	Bottle Order ID : **B2508049**	Courier :	1 of 1 COCs
Client ID : **APEX04** Project ID :	**Emerson Vapor Intrusion REG006-0309010-2**	Sampler Name(s) :	Analysis / Matrix
Customer Name : **Apex Companies, LLC.**	Project Manager : **MICHAEL DZIEDZIC**	AIR ANALYSIS CHAIN-OF-CUSTODY	
Address : **485 Route 1 South, Building B, Suite 130**	Phone Number : **973-475-5502**		
	Fax Number :		
	Site Details:	Individual Certified	
City : **Iselin**			
State : **NJ**	Analysis Turnaround Time		
Zip Code : **08830**	Standard : **10 business days** **OR**	Data Package Type :	
Country :	Rush (Specify): 5 **Days**	EDD Type :	

Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15 - only report: PCE, TCE, Vinyl Chloride, 1,2-DEC	Indoor/Ambinet Air	Soil Gas		
IA-2	9/5/25	07:10	13:55	-30.00	-5.00	74°	74°	-30	-10.8	10640	10608	6 L	12.5	VL042828.D	X	X			

Temperature (Fahrenheit)	Ambient	Maximum	Minimum	
Start				
Stop				

Pressure (Inches of Hg)	Ambient	Maximum	Minimum	
Start				
Stop				

GC/MS Analyst Signature (TO-15)

** Submittal of this COC indicates approval of the analysis based on existing conditions.

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments : Please report indoor air samples (IA-2) and (IA-1) on different reports from SV samples

Suspected Contamination: High Medium Low PID Readings:

Sampling site (State): New Jersey

Quick Connector required : NO

Canisters Shiped by:	Date/Time: 9/4/25	Canisters Received by:	Date/Time:	
Samples Relinquished by: Luis Arias	Date/Time: 9/5/25 16:17	Received by:	Date/Time: 9-5-25 1620	B2508049 - 4
Relinquished by:	Date/Time:	Received by:	Date/Time:	

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

Laboratory Certification

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

New Jersey Department of Environmental Protection

Internal Chain of Custody

Instructions: Use 1 form for each 20 samples of aliquot

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample

Laboratory: Chemtech
Location: 284 Sheffield Street, Mountainside,NJ 7092
~~NAME~~:
Title: Sample Custodian
Field Sample Seal No.: Q3037
Date Broken 9/9/2025
Military Time Seal Broken: 16:20:00
Case No.: Emerson Vapor Intrusion R
Analytical Parameter/Fraction: TO-15

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q3037-01	IA-2		

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
9/9/25	9:50	Signature	Signature	
		Printed Name Cassanova Rene	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	

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

AIR SAMPLE PRESSURE & DILUTION LOGBOOK

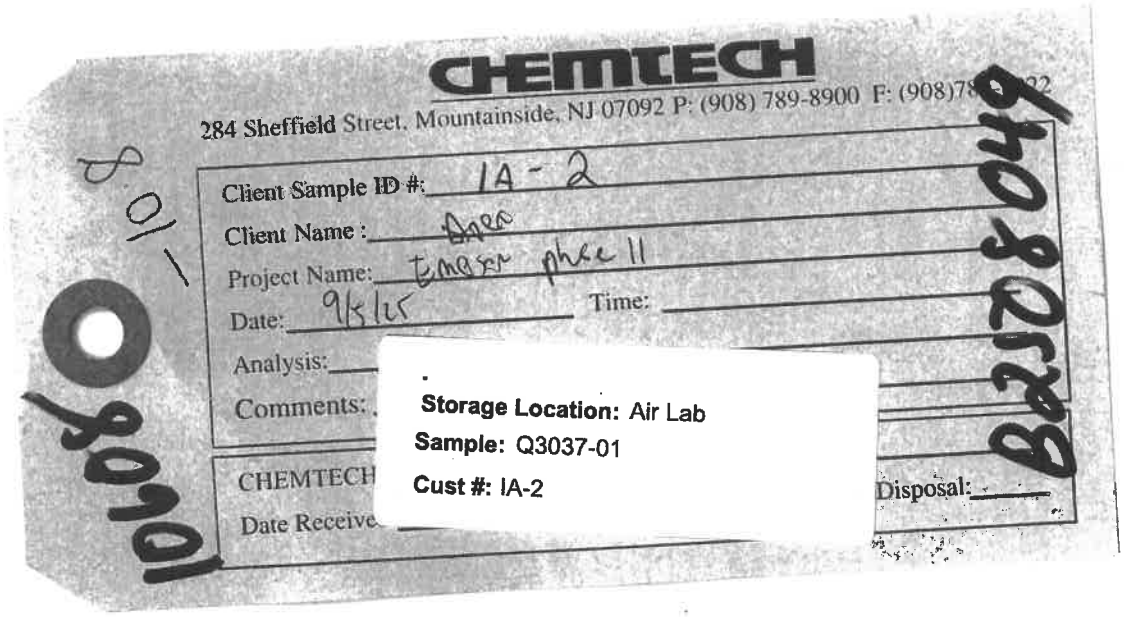
Analyst Signature: John Leak

Supervisor Signature: Grd

METHOD: TO-15

Pressure Gauge ID: AZ 55971

Date	Sample Number	Canister #	Initial Pressure psia	Initial Pressure Hg	Final Pressure psia	Final Pressure Hg	Dilution Factor	Comment
08/15/25	Q2887-01	10158	11.0	-7.5				cal
↓	Q2887-02	10300	12.6	-4.3				↓
↓	Q2887-03	10607	12.0	-5.5				cal
8/16/25	Q2898-01	10443	11.8	-5.9				
↓	Q2898-02	10602	12.2	-5.1				
↓	Q2898-03	10053	11.8	-5.9				
8/24/25	Q2943-01	10060	13.0	-3.5				
9/2/25	Q3000-01	10153	11.8	-5.9				
↓	Q3000-02	10283	12.0	-5.5				
↓	Q3000-03	10266	12.0	-5.5				
09/05/25	Q3037-01	10608	9.4	-10.8				cal
"	Q3038-01	10122	10.0	-9.6				cal
09/08/25	Q3052-01	10321	12.0	-5.5				cal
↓	Q3052-02	10590	11.0	-7.5				cal
↓	Q3052-03	10280	12.2	-5.1				cal
↓	Q3052-04	10315	12.2	-5.1				cal


CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)78
Client Sample ID #: IA - 2
Client Name : Aaea
Project Name: Tenaxx phase II
Date: 9/5/15
Time:
Analysis:
Comments:
CHEMTECH
Date Receive
Disposal:
Storage Location: Air Lab
Sample: Q3037-01
Cust #: IA-2
8201-10
8230849

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CASE NARRATIVE

Apex Companies, LLC.
Project Name: Emerson Vapor Intrusion REG006-0309010-25011690
Project # N/A
Order ID # Q3037
Test Name: VOCMS Group2

A. Number of Samples and Date of Receipt:
1 Air sample was received on 09/05/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: VOCMS Group2. This data package contains results for VOCMS Group2.

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 Group2 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 were met for all analysis.
The Blank Spike met requirements for all compounds.
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements.
The Continuous Calibration met the requirements.
The Tuning criteria met requirements.

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	VL081325	Instrument	MSVOA_I

284 Sheffield Street, Mountainside, NJ 07092
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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
VSTDICC002	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 incorrectly
VSTDICC002	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 incorrectly
VSTDICC002	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 incorrectly
VSTDICC002	VL042843.D	Ethanol	SAM	8/14/2025 7:48:12 AM	MMDadoda	8/18/2025 8:42:11 AM	Peak Integrated by Software incorrectly
VSTDICC002	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 incorrectly
VSTDICC002	VL042843.D	Methyl Methacrylate	SAM	8/14/2025 7:48:12 AM	MMDadoda	8/18/2025 8:42:11 AM	Peak Integrated by Software incorrectly
VSTDICC001	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 incorrectly
VSTDICC001	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 incorrectly
VSTDICC001	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 incorrectly
VSTDICC001	VL042844.D	Ethanol	SAM	8/14/2025 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrated by Software incorrectly
VSTDICC001	VL042844.D	Heptane	SAM	8/14/2025 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrated by Software incorrectly

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VSTDICC001	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 incorrectly
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 incorrectly
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 incorrectly
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 incorrectly
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 incorrectly
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 incorrectly
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 incorrectly
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 incorrectly
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	MMDadoda	8/18/2025 8:42:18	Peak Integrated

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				AM		AM	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 7:48:23 AM	MMDadoda	8/18/2025 8:42:18 AM	Peak Integrated by Software incorrectly
VSTDICC0.03	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 incorrectly
VSTDICC0.03	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 incorrectly
VSTDICC0.03	VL042847.D	Carbon Tetrachloride	SAM	8/14/2025 7:49:29 AM	MMDadoda	8/18/2025 8:42:20 AM	Peak Integrated by Software incorrectly
VSTDICC0.03	VL042847.D	Tetrachloroethene	SAM	8/14/2025 7:49:29 AM	MMDadoda	8/18/2025 8:42:20 AM	Peak Integrated by Software incorrectly
VSTDICC0.03	VL042847.D	Trichloroethene	SAM	8/14/2025 7:49:29 AM	MMDadoda	8/18/2025 8:42:20 AM	Peak Integrated by Software incorrectly
VSTDICC015	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 incorrectly
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 incorrectly
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 incorrectly

Sequence	VL090825	Instrument	MSVOA_I

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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL042900.D	m/p-Xylene	sam	9/9/2025 12:26:34 PM	MMDadoda	9/11/2025 5:28:20 PM	Peak Integrated by Software incorrectly
VL0908ABS01	VL042902.D	m/p-Xylene	sam	9/9/2025 12:26:38 PM	MMDadoda	9/11/2025 5:24:29 PM	Peak Integrated by Software incorrectly
VL0908ABS01	VL042902.D	Propene	sam	9/9/2025 12:26:38 PM	MMDadoda	9/11/2025 5:24:29 PM	Peak Integrated by Software incorrectly
Q3037-01	VL042904.D	4-Methyl-2-Pentanone	sam	9/9/2025 12:26:43 PM	MMDadoda	9/11/2025 5:28:18 PM	Peak Integrated by Software incorrectly
Q3037-01	VL042904.D	Benzene	sam	9/9/2025 12:26:43 PM	MMDadoda	9/11/2025 5:28:18 PM	Peak Integrated by Software incorrectly
Q3037-01	VL042904.D	Carbon Tetrachloride	sam	9/9/2025 12:26:43 PM	MMDadoda	9/11/2025 5:28:18 PM	Peak Integrated by Software incorrectly
Q3037-01	VL042904.D	m/p-Xylene	sam	9/9/2025 12:26:43 PM	MMDadoda	9/11/2025 5:28:18 PM	Peak Integrated by Software incorrectly
Q3037-01	VL042904.D	Methyl Methacrylate	sam	9/9/2025 12:26:43 PM	MMDadoda	9/11/2025 5:28:18 PM	Peak Integrated by Software incorrectly
Q3037-01	VL042904.D	n-propylbenzene	sam	9/9/2025	MMDadoda	9/11/2025 5:28:18	Peak Integrate

				12:26:43 PM		PM	d by Software incorrectly
Q3037-01	VL042904.D	Propene	sam	9/9/2025 12:26:43 PM	MMDadoda	9/11/2025 5:28:18 PM	Peak Integrated by Software incorrectly
Q3037-01	VL042904.D	Trichlorofluoromethane	sam	9/9/2025 12:26:43 PM	MMDadoda	9/11/2025 5:28:18 PM	Peak Integrated by Software incorrectly
Q3037-01	VL042904.D	Vinyl Acetate	sam	9/9/2025 12:26:43 PM	MMDadoda	9/11/2025 5:28:18 PM	Peak Integrated by Software incorrectly
Q3037-01DUP	VL042905.D	Benzene	sam	9/9/2025 12:31:10 PM	MMDadoda	9/11/2025 5:28:16 PM	Peak Integrated by Software incorrectly
Q3037-01DUP	VL042905.D	m/p-Xylene	sam	9/9/2025 12:31:10 PM	MMDadoda	9/11/2025 5:28:16 PM	Peak Integrated by Software incorrectly
Q3037-01DUP	VL042905.D	Methyl Methacrylate	sam	9/9/2025 12:31:10 PM	MMDadoda	9/11/2025 5:28:16 PM	Peak Integrated by Software incorrectly
Q3037-01DUP	VL042905.D	n-propylbenzene	sam	9/9/2025 12:31:10 PM	MMDadoda	9/11/2025 5:28:16 PM	Peak Integrated by Software incorrectly
Q3037-01DUP	VL042905.D	Propene	sam	9/9/2025 12:31:10 PM	MMDadoda	9/11/2025 5:28:16 PM	Peak Integrated by Software incorrectly
Q3037-01DUP	VL042905.D	Tetrahydrofuran	sam	9/9/2025 12:31:10 PM	MMDadoda	9/11/2025 5:28:16 PM	Peak Integrated by Software

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							incorrectly
Q3037-01DUP	VL042905.D	Toluene	sam	9/9/2025 12:31:10 PM	MMDadoda	9/11/2025 5:28:16 PM	Peak Integrated by Software incorrectly
Q3037-01DUP	VL042905.D	Trichlorofluoromethane	sam	9/9/2025 12:31:10 PM	MMDadoda	9/11/2025 5:28:16 PM	Peak Integrated by Software incorrectly
Q3037-01DUP	VL042905.D	Vinyl Acetate	sam	9/9/2025 12:31:10 PM	MMDadoda	9/11/2025 5:28:16 PM	Peak Integrated by Software incorrectly

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

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

Signature_____

284 Sheffield Street, Mountainside NJ 07092 Tel.
908-789-8900 Fax: 908-789-8922

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 is 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

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q3037

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

QA Review Signature: SOHIL JODHANI **Date:** 09/16/2025

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

LAB CHRONICLE

OrderID:	Q3037	**OrderDate:**	9/8/2025 8:25:21 AM
Client:	Apex Companies, LLC.	**Project:**	Emerson Vapor Intrusion
Contact:	Michael Dziedzic	**Location:**	Air Lab, NY Lab

REG006/0309010-25011690

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3037-01	**IA-2**	**Air**			**09/05/25**			**09/05/25**
			VOCMS Group2	TO-15			09/08/25	

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

Hit Summary Sheet
SW-846

SDG No.: Q3037

Client: Apex Companies, LLC.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:								
				0				

Total Voc :

Total Concentration:

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

Project : Emerson Vapor Intrusion REG006-0309010-25011690 **Sampling Date :** 09/05/25

Field Id Number : IA-2 **Analysis Date :** 09/08/25

Laboratory Id Number : Q3037-01 **Target Analyts :** Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Vinyl Chloride	75-01-4	62.5	0.03	U	0.08		
1,2-Dichloroethane	107-06-2	98.96	0.09	U	0.36		
Trichloroethene	79-01-6	131.4	0.02	U	0.11		
Tetrachloroethene	127-18-4	165.8	0.02	U	0.14		

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

Students Value	Spike_Amt_Added	Datafile1	Concentration1	Adate1	Datafile2	Concentration2	Adate2
3.143	0.4	VL041877.D	0.48	01092025T21:16:00	VL041878.D	0.46	01092025T21:46:00
3.143	0.03	VL041883.D	0.037	01102025T00:17:00	VL041884.D	0.04	01102025T00:47:00
3.143	0.03	VL041883.D	0.045	01102025T00:17:00	VL041884.D	0.04	01102025T00:47:00
3.143	0.4	VL041877.D	0.46	01092025T21:16:00	VL041878.D	0.52	01092025T21:46:00
3.143	0.4	VL041877.D	0.53	01092025T21:16:00	VL041878.D	0.54	01092025T21:46:00
3.143	0.4	VL041877.D	0.53	01092025T21:16:00	VL041878.D	0.51	01092025T21:46:00
3.143	0.4	VL041877.D	0.5	01092025T21:16:00	VL041878.D	0.53	01092025T21:46:00
3.143	0.4	VL041877.D	0.45	01092025T21:16:00	VL041878.D	0.47	01092025T21:46:00
3.143	0.4	VL041877.D	0.46	01092025T21:16:00	VL041878.D	0.43	01092025T21:46:00
3.143	0.4	VL041877.D	0.48	01092025T21:16:00	VL041878.D	0.45	01092025T21:46:00
3.143	0.4	VL041877.D	0.52	01092025T21:16:00	VL041878.D	0.51	01092025T21:46:00
3.143	0.4	VL041877.D	0.52	01092025T21:16:00	VL041878.D	0.54	01092025T21:46:00
3.143	0.4	VL041877.D	0.53	01092025T21:16:00	VL041878.D	0.49	01092025T21:46:00
3.143	0.4	VL041877.D	0.44	01092025T21:16:00	VL041878.D	0.44	01092025T21:46:00
3.143	0.4	VL041877.D	0.52	01092025T21:16:00	VL041878.D	0.54	01092025T21:46:00
3.143	0.4	VL041877.D	0.49	01092025T21:16:00	VL041878.D	0.46	01092025T21:46:00
3.143	0.4	VL041877.D	0.48	01092025T21:16:00	VL041878.D	0.47	01092025T21:46:00
3.143	0.4	VL041877.D	0.49	01092025T21:16:00	VL041878.D	0.45	01092025T21:46:00
3.143	0.4	VL041877.D	0.47	01092025T21:16:00	VL041878.D	0.46	01092025T21:46:00
3.143	0.4	VL041877.D	0.47	01092025T21:16:00	VL041878.D	0.46	01092025T21:46:00
3.143	0.4	VL041877.D	0.44	01092025T21:16:00	VL041878.D	0.46	01092025T21:46:00
3.143	0.4	VL041877.D	0.41	01092025T21:16:00	VL041878.D	0.38	01092025T21:46:00
3.143	0.4	VL041877.D	0.44	01092025T21:16:00	VL041878.D	0.44	01092025T21:46:00
3.143	0.4	VL041877.D	0.44	01092025T21:16:00	VL041878.D	0.43	01092025T21:46:00
3.143	0.4	VL041877.D	0.6	01092025T21:16:00	VL041878.D	0.62	01092025T21:46:00
3.143	0.4	VL041877.D	0.46	01092025T21:16:00	VL041878.D	0.51	01092025T21:46:00
3.143	0.4	VL041877.D	0.47	01092025T21:16:00	VL041878.D	0.46	01092025T21:46:00
3.143	0.4	VL041877.D	0.31	01092025T21:16:00	VL041878.D	0.29	01092025T21:46:00
3.143	0.4	VL041877.D	0.45	01092025T21:16:00	VL041878.D	0.44	01092025T21:46:00
3.143	0.4	VL041877.D	0.49	01092025T21:16:00	VL041878.D	0.53	01092025T21:46:00
3.143	0.4	VL041877.D	0.36	01092025T21:16:00	VL041878.D	0.35	01092025T21:46:00
3.143	0.4	VL041877.D	0.49	01092025T21:16:00	VL041878.D	0.52	01092025T21:46:00
3.143	0.4	VL041877.D	0.41	01092025T21:16:00	VL041878.D	0.45	01092025T21:46:00
3.143	0.03	VL041883.D	0.036	01102025T00:17:00	VL041884.D	0.038	01102025T00:47:00
3.143	0.4	VL041877.D	0.5	01092025T21:16:00	VL041878.D	0.48	01092025T21:46:00
3.143	0.4	VL041877.D	0.47	01092025T21:16:00	VL041878.D	0.47	01092025T21:46:00
3.143	0.4	VL041877.D	0.57	01092025T21:16:00	VL041878.D	0.59	01092025T21:46:00
3.143	0.4	VL041877.D	0.51	01092025T21:16:00	VL041878.D	0.5	01092025T21:46:00
3.143	0.4	VL041877.D	0.54	01092025T21:16:00	VL041878.D	0.51	01092025T21:46:00
3.143	0.4	VL041877.D	0.48	01092025T21:16:00	VL041878.D	0.45	01092025T21:46:00
3.143	0.4	VL041877.D	0.41	01092025T21:16:00	VL041878.D	0.4	01092025T21:46:00
3.143	0.4	VL041877.D	0.46	01092025T21:16:00	VL041878.D	0.47	01092025T21:46:00
3.143	0.4	VL041877.D	0.39	01092025T21:16:00	VL041878.D	0.4	01092025T21:46:00
3.143	0.4	VL041877.D	0.47	01092025T21:16:00	VL041878.D	0.51	01092025T21:46:00
3.143	0.4	VL041877.D	0.53	01092025T21:16:00	VL041878.D	0.52	01092025T21:46:00
3.143	0.4	VL042501.D	0.885	05062025T17:36:00	VL042502.D	0.76	05062025T18:07:00
3.143	0.4	VL041877.D	0.46	01092025T21:16:00	VL041878.D	0.45	01092025T21:46:00
3.143	0.4	VL041877.D	0.43	01092025T21:16:00	VL041878.D	0.44	01092025T21:46:00
3.143	0.4	VL041877.D	0.43	01092025T21:16:00	VL041878.D	0.46	01092025T21:46:00
3.143	0.4	VL041877.D	0.49	01092025T21:16:00	VL041878.D	0.5	01092025T21:46:00
3.143	0.4	VL041877.D	0.46	01092025T21:16:00	VL041878.D	0.47	01092025T21:46:00
3.143	0.4	VL041877.D	0.59	01092025T21:16:00	VL041878.D	0.6	01092025T21:46:00
3.143	0.4	VL041877.D	0.45	01092025T21:16:00	VL041878.D	0.45	01092025T21:46:00
3.143	0.4	VL041877.D	0.91	01092025T21:16:00	VL041878.D	0.91	01092025T21:46:00
3.143	0.4	VL041877.D	0.44	01092025T21:16:00	VL041878.D	0.41	01092025T21:46:00
3.143	0.4	VL041877.D	0.4	01092025T21:16:00	VL041878.D	0.47	01092025T21:46:00
3.143	0.4	VL041877.D	0.68	01092025T21:16:00	VL041878.D	0.61	01092025T21:46:00
3.143	0.04	VL042504.D	0.035	05062025T19:10:00	VL042505.D	0.04	05062025T19:42:00
3.143	0.4	VL041877.D	0.34	01092025T21:16:00	VL041878.D	0.34	01092025T21:46:00
3.143	0.4	VL041877.D	0.44	01092025T21:16:00	VL041878.D	0.43	01092025T21:46:00
3.143	0.4	VL041877.D	0.44	01092025T21:16:00	VL041878.D	0.46	01092025T21:46:00
3.143	0.4	VL041877.D	0.45	01092025T21:16:00	VL041878.D	0.45	01092025T21:46:00
3.143	0.4	VL041877.D	0.45	01092025T21:16:00	VL041878.D	0.44	01092025T21:46:00
3.143	0.4	VL041877.D	0.53	01092025T21:16:00	VL041878.D	0.46	01092025T21:46:00
3.143	0.4	VL041877.D	0.48	01092025T21:16:00	VL041878.D	0.46	01092025T21:46:00
3.143	0.4	VL041877.D	0.42	01092025T21:16:00	VL041878.D	0.4	01092025T21:46:00
3.143	0.4	VL041877.D	0.41	01092025T21:16:00	VL041878.D	0.36	01092025T21:46:00
3.143	0.4	VL041877.D	0.5	01092025T21:16:00	VL041878.D	0.45	01092025T21:46:00
3.143	0.4	VL041877.D	0.46	01092025T21:16:00	VL041878.D	0.46	01092025T21:46:00
3.143	0.03	VL041883.D	0.037	01102025T00:17:00	VL041884.D	0.04	01102025T00:47:00
3.143	0.4	VL041877.D	0.47	01092025T21:16:00	VL041878.D	0.43	01092025T21:46:00
3.143	0.4	VL041877.D	0.45	01092025T21:16:00	VL041878.D	0.43	01092025T21:46:00
3.143	0.4	VL041877.D	0.45	01092025T21:16:00	VL041878.D	0.52	01092025T21:46:00
3.143	0.03	VL041883.D	0.047	01102025T00:17:00	VL041884.D	0.047	01102025T00:47:00
3.143	0.4	VL041877.D	0.53	01092025T21:16:00	VL041878.D	0.52	01092025T21:46:00
3.143	0.4	VL041877.D	0.43	01092025T21:16:00	VL041878.D	0.47	01092025T21:46:00
3.143	0.03	VL042498.D	0.018	05062025T16:01:00	VL042500.D	0.032	05062025T17:04:00

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

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

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

Surrogate Summary

SDG No.: Q3037

Client: Apex Companies, LLC.

Analytical Method: SWTO-15

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
Q3037-01	IA-2	1-Bromo-4-Fluorobenzene	10	10.4	104		70 (65)	130 (135)
Q3037-01DUP	IA-2DUP	1-Bromo-4-Fluorobenzene	10	10.4	104		70 (65)	130 (135)
VL0908ABL01	VL0908ABL01	1-Bromo-4-Fluorobenzene	10	10.2	102		70 (65)	130 (135)
VL0908ABS01	VL0908ABS01	1-Bromo-4-Fluorobenzene	10	10.5	105		70 (65)	130 (135)

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	**Q3037**	**Analytical Method:**	**SWTO-15**
Client:	**Apex Companies, LLC.**	**Datafile :**	VL042902.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VL0908ABS01	Vinyl Chloride	10	9.60	ppbv	96			70 (70)	130 (130)	
	1,2-Dichloroethane	10	12.7	ppbv	127			70 (70)	130 (130)	
	Trichloroethene	10	10.4	ppbv	104			70 (70)	130 (130)	
	Tetrachloroethene	10	9.60	ppbv	96			70 (70)	130 (130)	

( ) = LABORATORY INHOUSE LIMIT

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Duplicate Sample Summary

Lab Sample Id :	Q3037-01DUP		Q3037-01	
Client Id :	IA-2DUP		IA-2	
DF :	1		1	
Datafile :	VL042905.D		VL042904.D	
Anal Date & Time :	09/08/2025	15:59	09/08/2025	15:15

Parameter	Result	Result	RPD
1,2-Dichloroethane	0	0	0
Tetrachloroethene	0	0	0
Trichloroethene	0	0	0
Vinyl Chloride	0	0	0

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VOLATILE METHOD BLANK SUMMARY

Client ID: VL0908ABL01

Lab Name: Alliance Contract: APEX04

Lab Code: ACE SDG NO.: Q3037

Lab File ID: VL042901.D Lab Sample ID: VL0908ABL01

Date Analyzed: 09/08/2025 Time Analyzed: 11:55

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
VL0908ABS01	VL0908ABS01	VL042902.D	09/08/2025
IA-2	Q3037-01	VL042904.D	09/08/2025
IA-2DUP	Q3037-01DUP	VL042905.D	09/08/2025

COMMENTS:

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Fax : 908 789 8922

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance | Contract: APEX04

Lab Code: ACE | SDG NO.: Q3037

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
VSTDICC002	VSTDICC002	VL042843.D	08/13/2025	09:06
VSTDICC001	VSTDICC001	VL042844.D	08/13/2025	09:41
VSTDICC0.5	VSTDICC0.5	VL042845.D	08/13/2025	10:17
VSTDICC0.1	VSTDICC0.1	VL042846.D	08/13/2025	10:53
VSTDICC0.03	VSTDICC0.03	VL042847.D	08/13/2025	11:30
VSTDICC015	VSTDICC015	VL042848.D	08/13/2025	12:06

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Fax : 908 789 8922

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance | Contract: APEX04

Lab Code: ACE | SDG NO.: Q3037

Lab File ID: VL042899.D | BFB Injection Date: 09/08/2025

Instrument ID: MSVOA_L | BFB Injection Time: 08:41

GC Column: RTX-1 ID: 0.32 (mm) | Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	23.4
75	30.0 - 66.0% of mass 95	58.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.5 (1) 1
174	50.0 - 120.0% of mass 95	55.2
175	4.0 - 9.0% of mass 174	4 (7.3) 1
176	93.0 - 101.0% of mass 174	54.2 (98.3) 1
177	5.0 - 9.0% of mass 176	3.4 (6.3) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC010	VSTDCCC010	VL042900.D	09/08/2025	11:05
VL0908ABL01	VL0908ABL01	VL042901.D	09/08/2025	11:55
VL0908ABS01	VL0908ABS01	VL042902.D	09/08/2025	13:35
IA-2	Q3037-01	VL042904.D	09/08/2025	15:15
IA-2DUP	Q3037-01DUP	VL042905.D	09/08/2025	15:59

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Fax : 908 789 8922

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: APEX04

Lab Code: ACE SDG NO.: Q3037

Lab File ID: VL042900.D Date Analyzed: 09/08/2025

Instrument ID: MSVOA_L Time Analyzed: 11:05

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	126678	2.78	333606	3.94	282770	8.87
UPPER LIMIT	177349	3.11	467048	4.27	395878	9.20
LOWER LIMIT	76006.8	2.45	200164	3.61	169662	8.54
EPA SAMPLE NO.						
IA-2	138126	2.78	368558	3.95	302216	8.88
IA-2DUP	141221	2.78	372044	3.95	303028	8.88
VL0908ABL01	141293	2.78	355217	3.95	298537	8.88
VL0908ABS01	139945	2.78	365857	3.95	306385	8.87

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

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

Report of Analysis

Client:	Apex Companies, LLC.	Date Collected:	09/05/25
Project:	Emerson Vapor Intrusion REG006-0309010-25011690	Date Received:	09/05/25
Client Sample ID:	IA-2	SDG No.:	Q3037
Lab Sample ID:	Q3037-01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042904.D	1		09/08/25 15:15	VL090825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL ug/m3	LOQ / CRQL ug/m3	
TARGETS							
75-01-4	Vinyl Chloride	0.030	0.080	U	0.080	0.080	
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.4			70 (65) - 130 (135)	104%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	138000		2.784			
540-36-3	1,4-Difluorobenzene	369000		3.952			
3114-55-4	Chlorobenzene-d5	302000		8.875			

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

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
Data File : VL042904.D
Acq On : 08 Sep 2025 15:15
Operator : SY/MD
Sample : Q3037-01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 09 04:40:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Sep 09 00:52:26 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
IA-2

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.784	49	138126	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.952	114	368558	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.875	117	302216	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.370	95	236452	10.432	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 104.300%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.495	85	9878	0.488	ppbv		90
3) Chlorodifluoromethane	1.473	51	93046	4.158	ppbv	#	91
4) Chloromethane	1.531	50	8036	0.984	ppbv		100
9) Propene	1.486	41	7792m	0.806	ppbv		
11) Trichlorofluoromethane	1.874	101	8692m	0.435	ppbv		
13) Ethanol	1.719	45	172209	194.899	ppbv		90
15) Acetone	1.832	43	2285778	125.100	ppbv	#	77
19) Isopropyl Alcohol	1.884	45	2178522	199.623	ppbv		98
20) Methylene Chloride	2.059	84	8085	1.056	ppbv	#	82
23) Vinyl Acetate	2.450	43	18775m	0.747	ppbv		
25) Ethyl Acetate	2.832	43	151536	3.427	ppbv	#	94
26) Hexane	2.822	57	18422m	0.903	ppbv		
29) Chloroform	2.845	83	8304	0.285	ppbv		89
34) 2-Butanone	2.557	43	26086	1.048	ppbv		96
35) Carbon Tetrachloride	3.748	117	4551m	0.179	ppbv		
36) Benzene	3.648	78	4228m	0.120	ppbv		
41) Tetrahydrofuran	3.059	42	2514	0.181	ppbv	#	53
43) Methyl Methacrylate	4.874	69	4146m	0.285	ppbv		
50) 4-Methyl-2-Pentanone	5.739	43	72979m	2.170	ppbv		
53) Toluene	6.923	91	13909	0.331	ppbv		98
59) m/p-Xylene	9.525	91	7779m	0.186	ppbv		
60) o-Xylene	9.959	91	4398	0.105	ppbv		100
64) n-propylbenzene	10.988	120	1936m	0.123	ppbv		
72) 4-Ethyltoluene	11.118	105	12697	0.249	ppbv	#	62
73) 1,3,5-Trimethylbenzene	11.199	105	13893	0.320	ppbv		97
74) 1,2,4-Trimethylbenzene	11.532	105	53900	1.133	ppbv	#	60

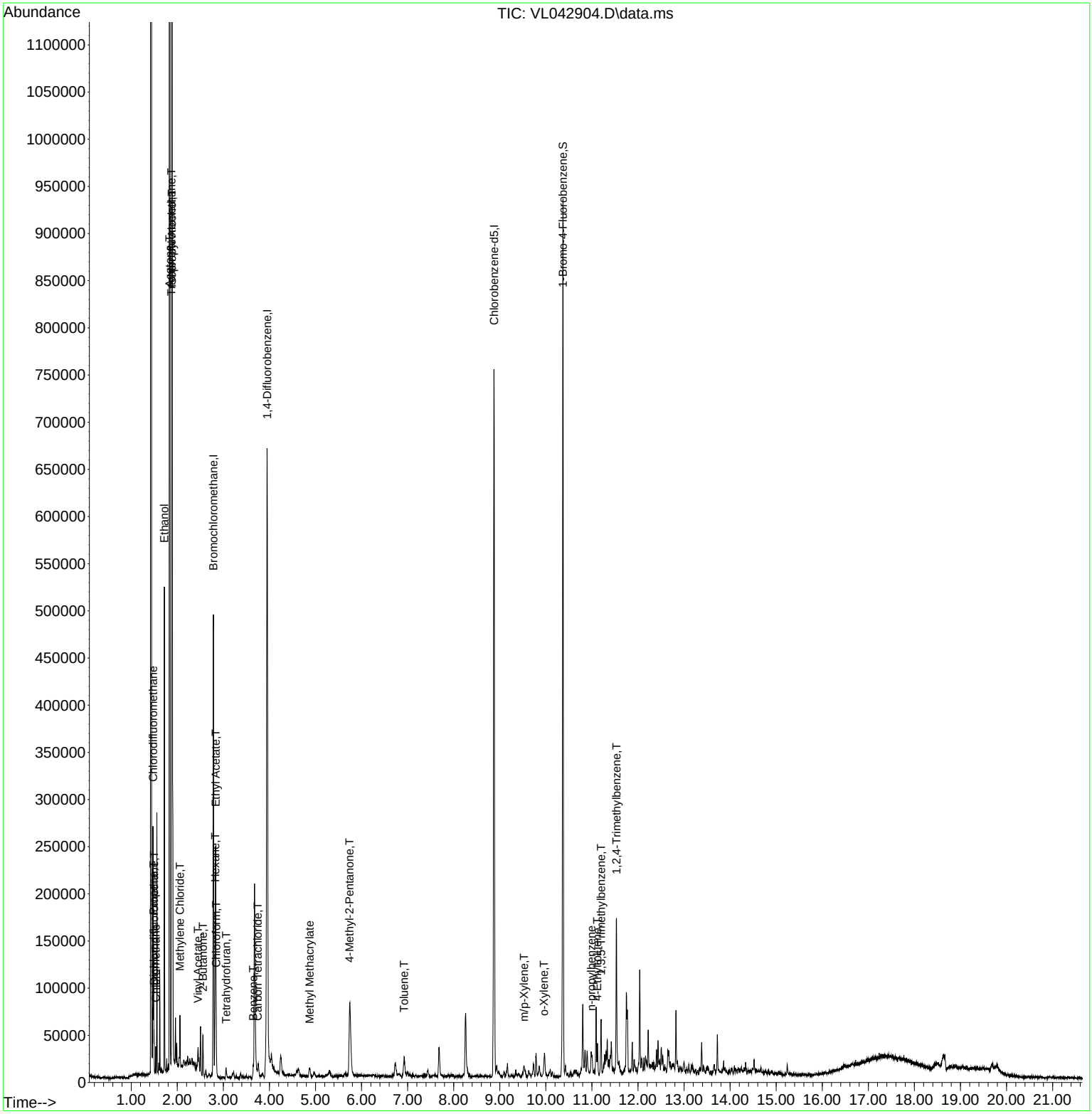
(#) = qualifier out of range (m) = manual integration (+) = signals summed

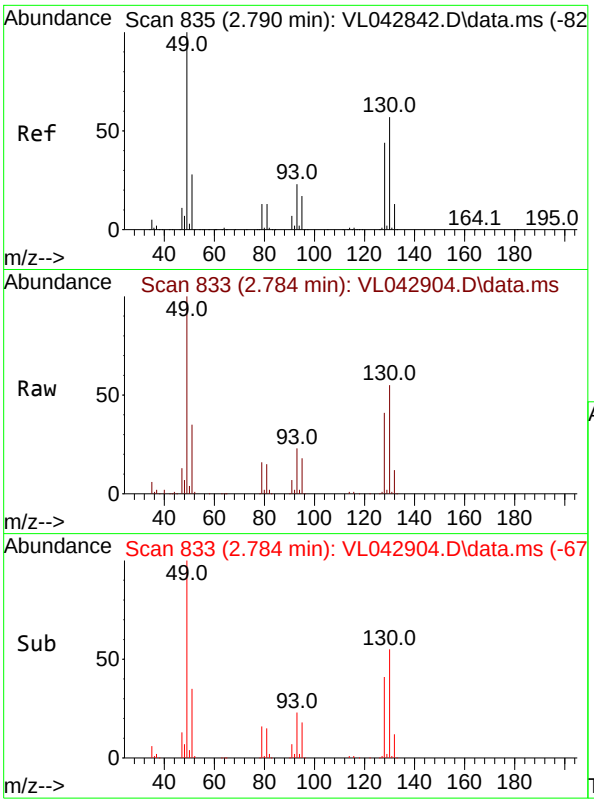
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
Data File : VL042904.D
Acq On : 08 Sep 2025 15:15
Operator : SY/MD
Sample : Q3037-01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 09 04:40:55 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 : Tue Sep 09 00:52:26 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
IA-2

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

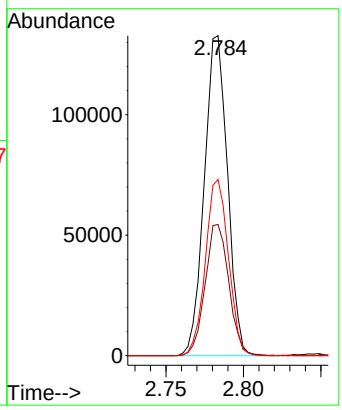




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. 0.007 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion: 49 Resp: 13812

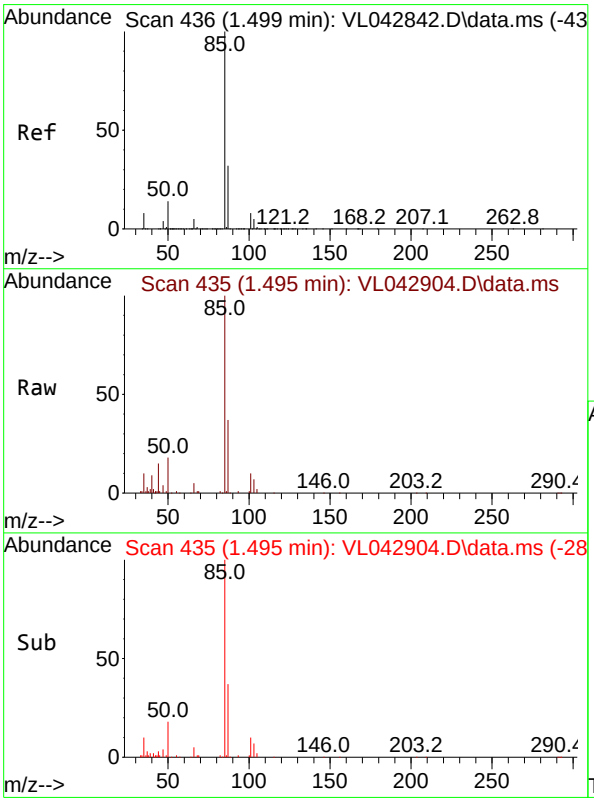
Ion	Ratio	Lower	Upper
49	100		
128	41.9	23.7	71.1
130	54.7	30.6	91.6



Instrument :
MSVOA_L
ClientSampleId :
IA-2

Manual Integrations
APPROVED

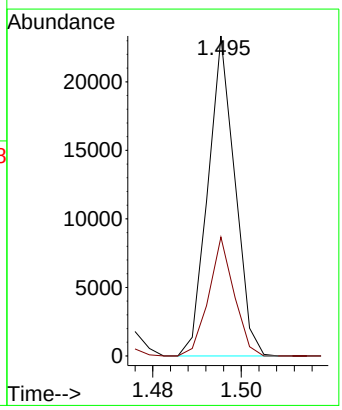
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

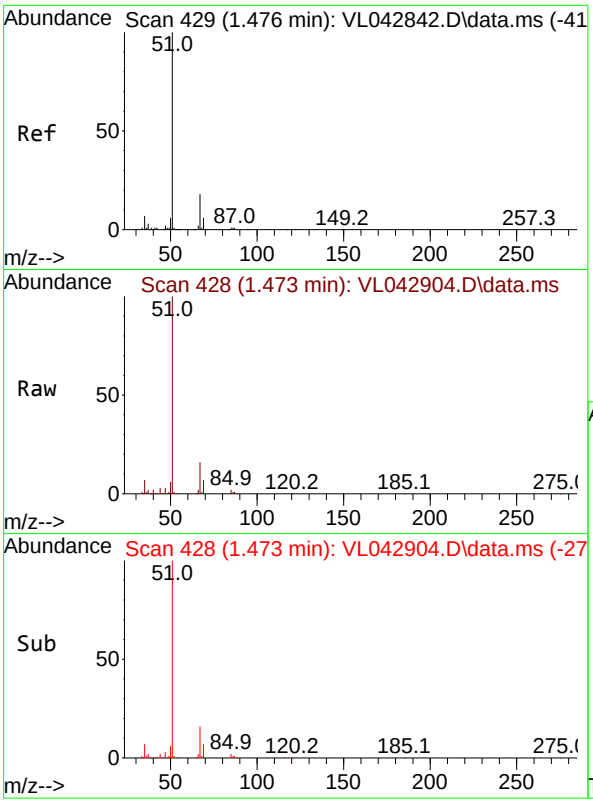


#2
Dichlorodifluoromethane
Concen: 0.488 ppbv
RT: 1.495 min Scan# 435
Delta R.T. 0.003 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion: 85 Resp: 9878

Ion	Ratio	Lower	Upper
85	100		
87	37.1	25.3	37.9

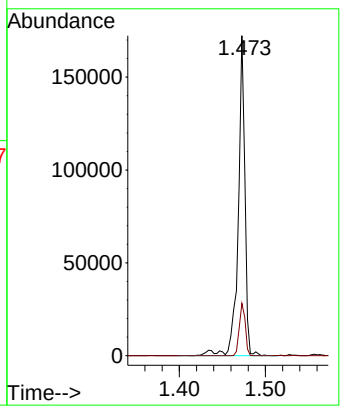




#3
Chlorodifluoromethane
Concen: 4.158 ppbv
RT: 1.473 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion: 51 Resp: 9304

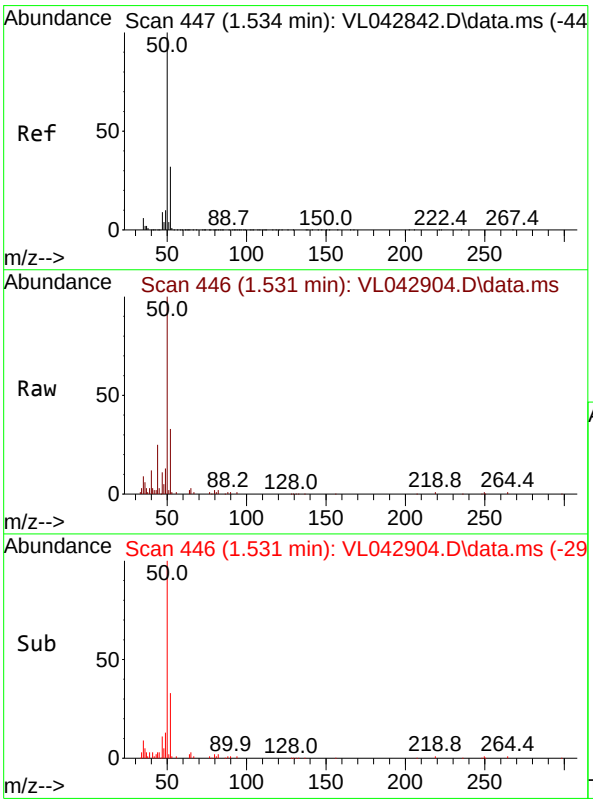
Ion	Ratio	Lower	Upper
51	100		
67	14.6	14.9	22.3#



Instrument :
MSVOA_L
ClientSampleId :
IA-2

Manual Integrations
APPROVED

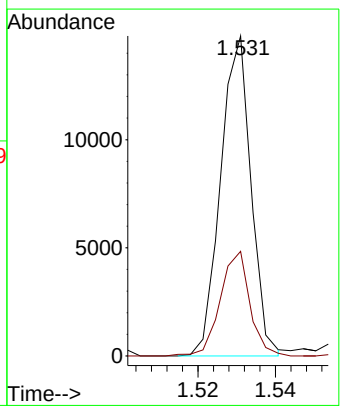
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

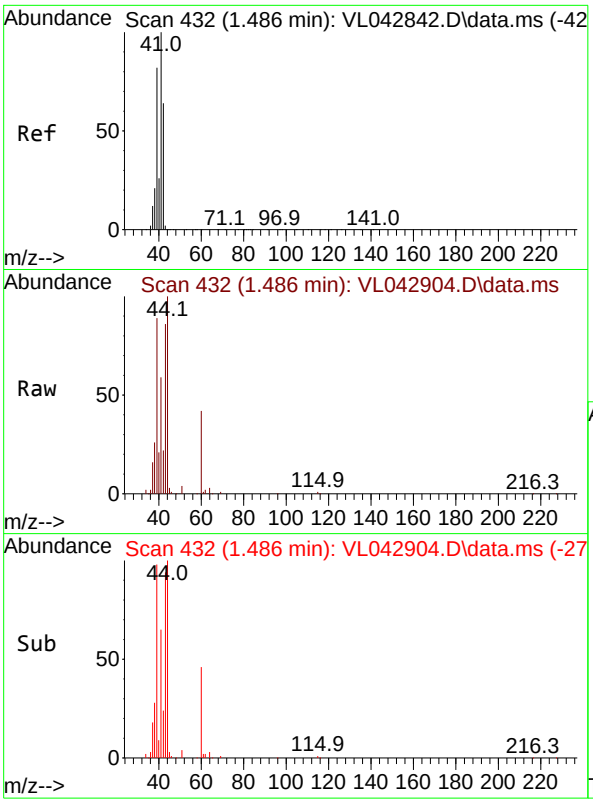


#4
Chloromethane
Concen: 0.984 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.003 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion: 50 Resp: 8036

Ion	Ratio	Lower	Upper
50	100		
52	32.2	25.9	38.9

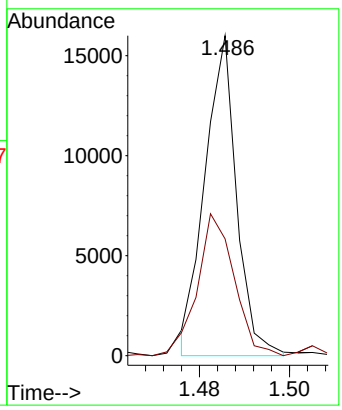




#9
Propene
Concen: 0.806 ppbv m
RT: 1.486 min Scan# 4
Delta R.T. 0.009 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion: 41 Resp: 779

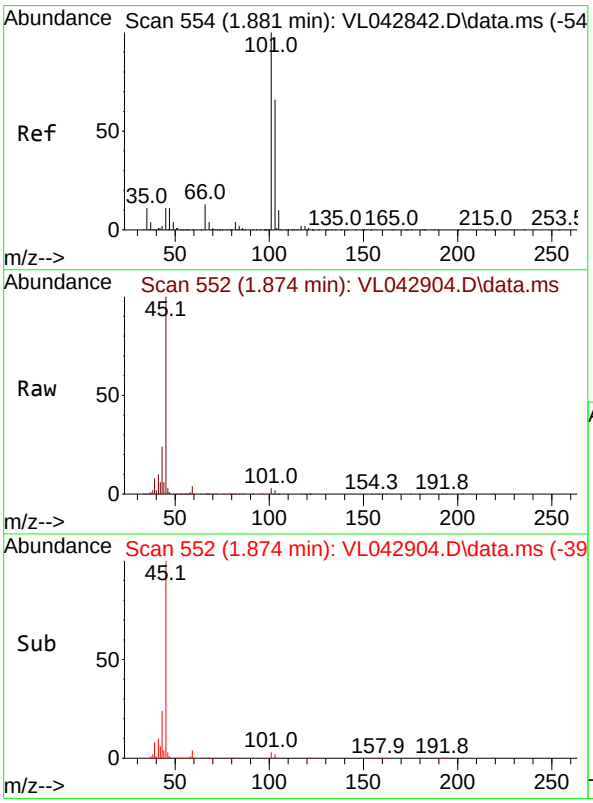
Ion	Ratio	Lower	Upper
41	100		
42	1913.3	53.0	79.



Instrument :
MSVOA_L
ClientSampleId :
IA-2

Manual Integrations
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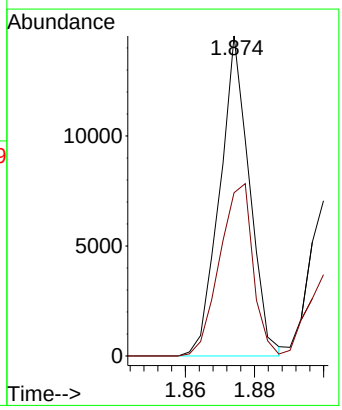
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

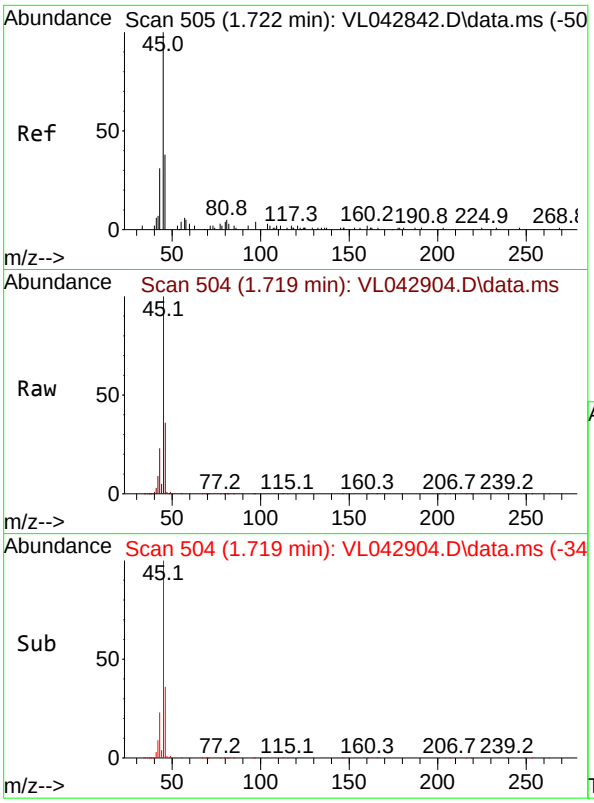


#11
Trichlorofluoromethane
Concen: 0.435 ppbv m
RT: 1.874 min Scan# 552
Delta R.T. 0.003 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion:101 Resp: 8692

Ion	Ratio	Lower	Upper
101	100		
103	51.0	52.5	78.7#

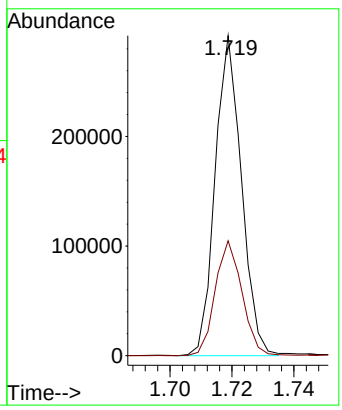




#13
Ethanol
Concen: 194.899 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion: 45 Resp: 17220

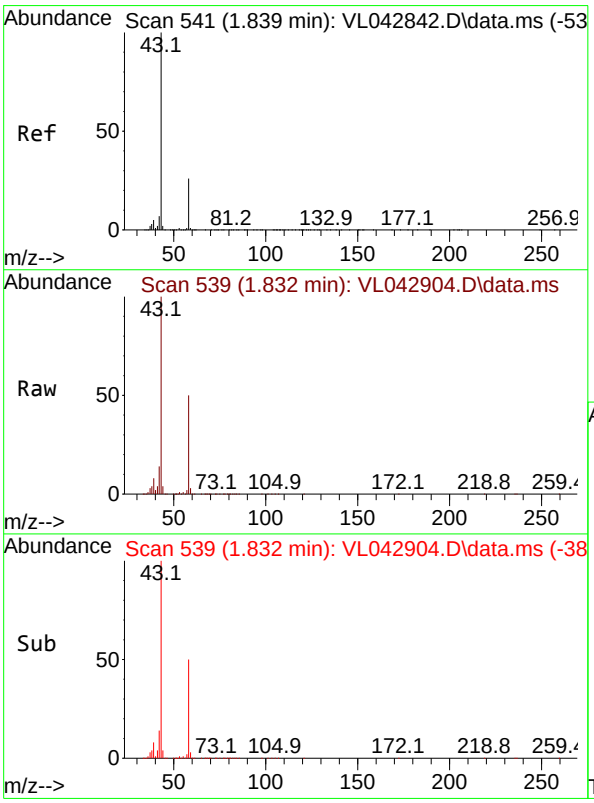
Ion	Ratio	Lower	Upper
45	100		
46	37.3	17.5	69.9



Instrument :
MSVOA_L
ClientSampleId :
IA-2

Manual Integrations
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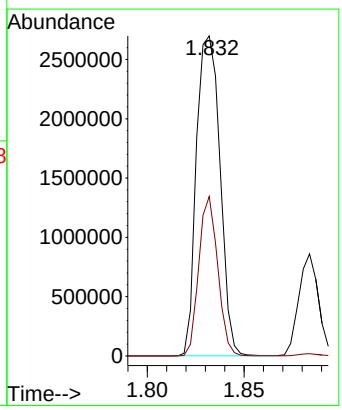
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

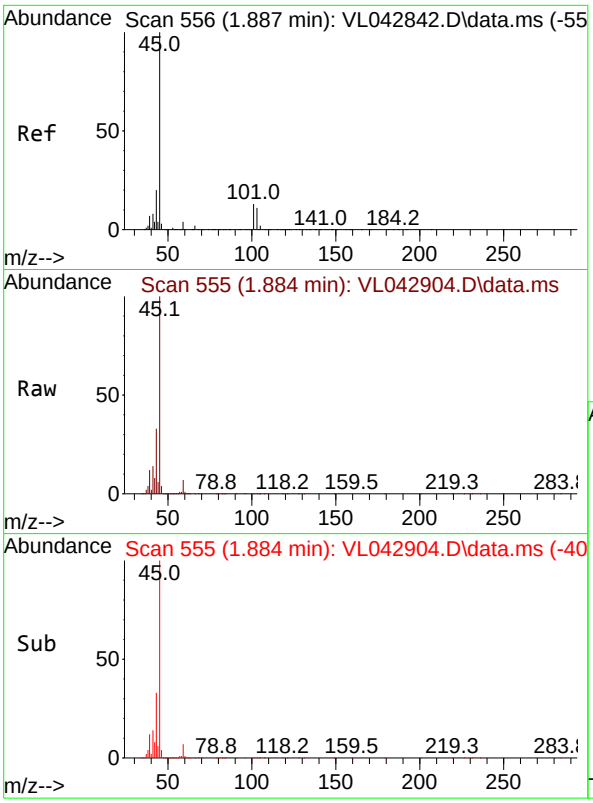


#15
Acetone
Concen: 125.100 ppbv
RT: 1.832 min Scan# 539
Delta R.T. 0.003 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion: 43 Resp: 2285778

Ion	Ratio	Lower	Upper
43	100		
58	40.1	22.4	33.6#

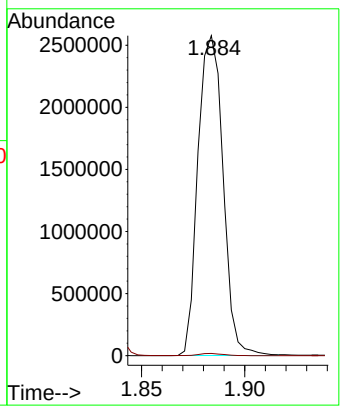




#19
Isopropyl Alcohol
Concen: 199.623 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion: 45 Resp: 217852

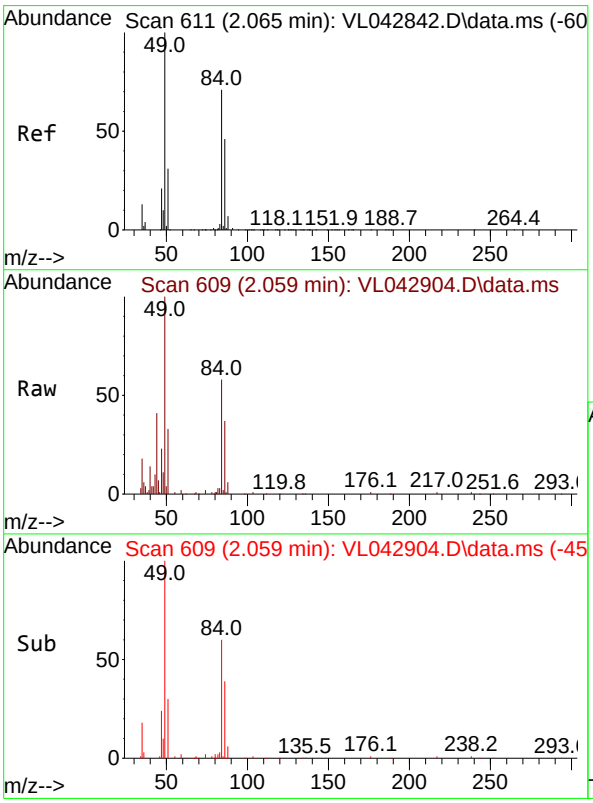
Ion	Ratio	Lower	Upper
45	100		
58	42.1	32.7	49.1



Instrument :
MSVOA_L
ClientSampleId :
IA-2

Manual Integrations
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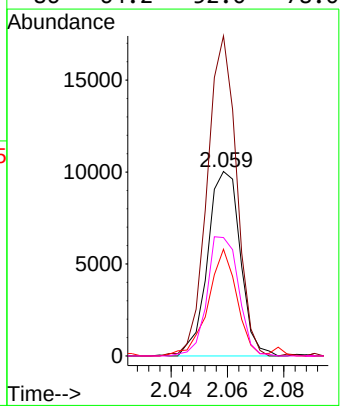
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

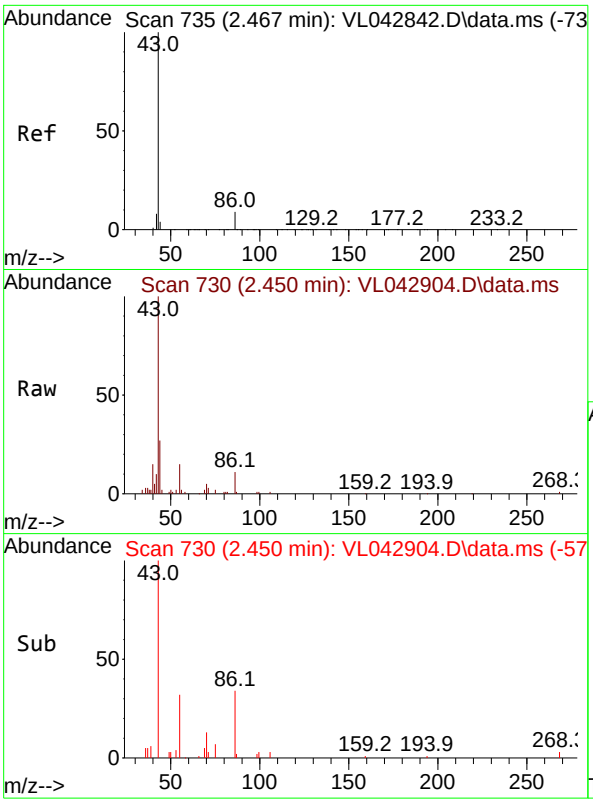


#20
Methylene Chloride
Concen: 1.056 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.003 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion: 84 Resp: 8085

Ion	Ratio	Lower	Upper
84	100		
49	173.4	112.3	168.5#
51	55.0	36.0	54.0#
86	64.2	52.0	78.0

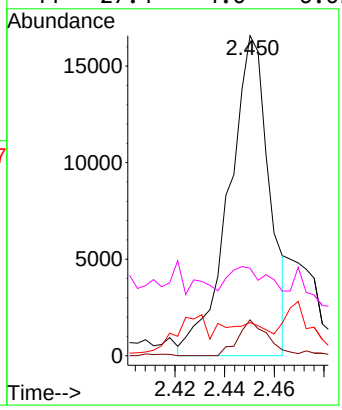




#23
Vinyl Acetate
Concen: 0.747 ppbv m
RT: 2.450 min Scan# 7
Delta R.T. -0.004 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion: 43 Resp: 1877

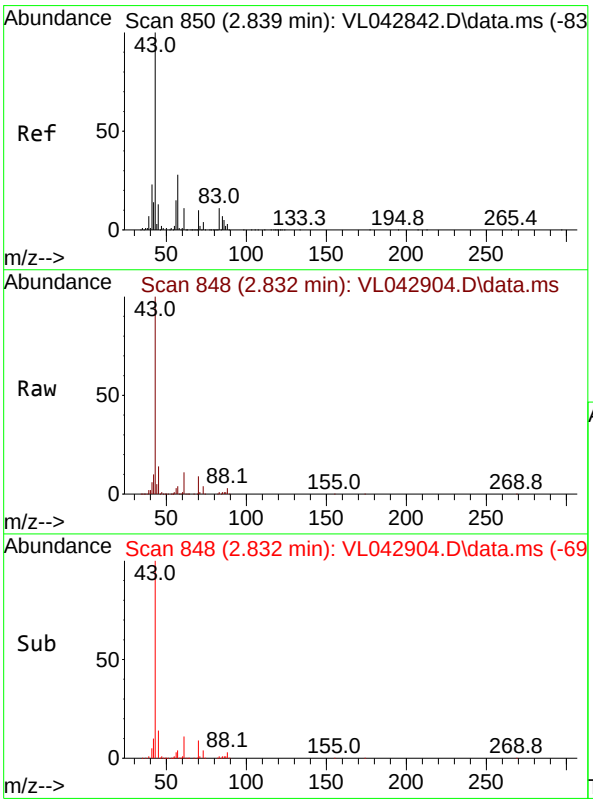
Ion	Ratio	Lower	Upper
43	100		
86	11.2	6.6	9.8#
42	10.4	7.0	10.6
44	27.4	4.0	6.0#



Instrument :
MSVOA_L
ClientSampleId :
IA-2

Manual Integrations
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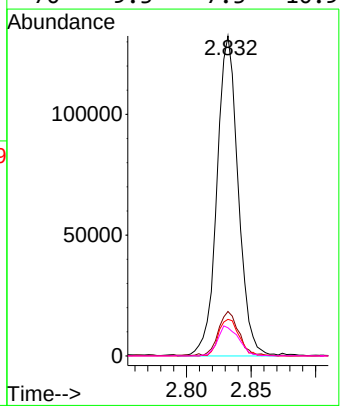
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

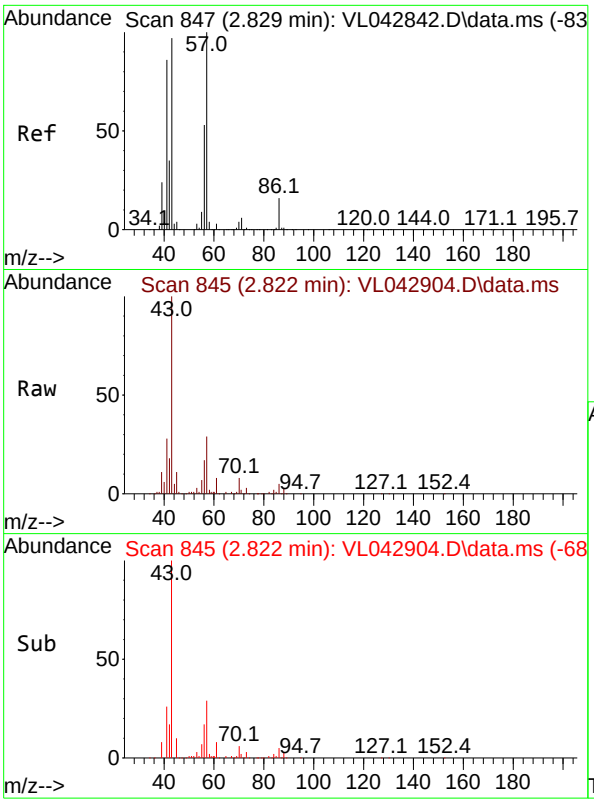


#25
Ethyl Acetate
Concen: 3.427 ppbv
RT: 2.832 min Scan# 848
Delta R.T. 0.006 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion: 43 Resp: 151536

Ion	Ratio	Lower	Upper
43	100		
45	13.9	8.1	12.1#
61	11.3	7.4	11.2#
70	9.3	7.3	10.9

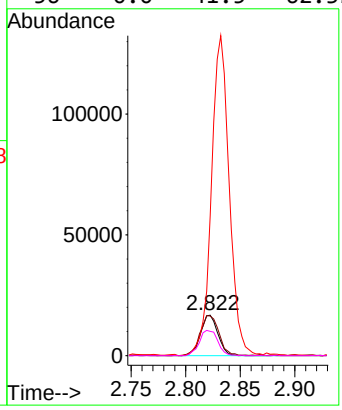




#26
Hexane
Concen: 0.903 ppbv m
RT: 2.822 min Scan# 84
Delta R.T. 0.006 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion: 57 Resp: 1842

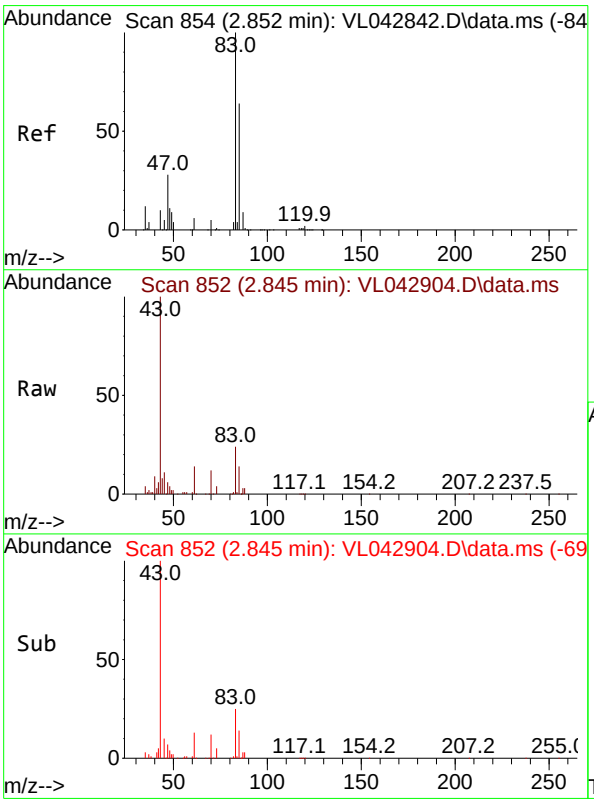
Ion	Ratio	Lower	Upper
57	100		
41	0.0	68.6	103.0#
43	0.0	168.5	252.7#
56	0.0	41.5	62.3#



Instrument :
MSVOA_L
ClientSampleId :
IA-2

Manual Integrations
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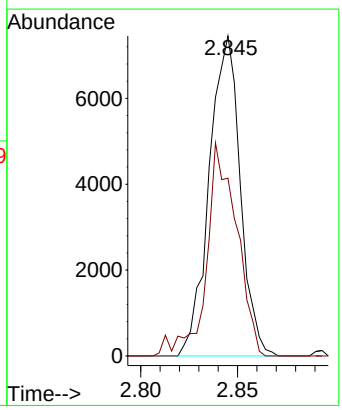
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

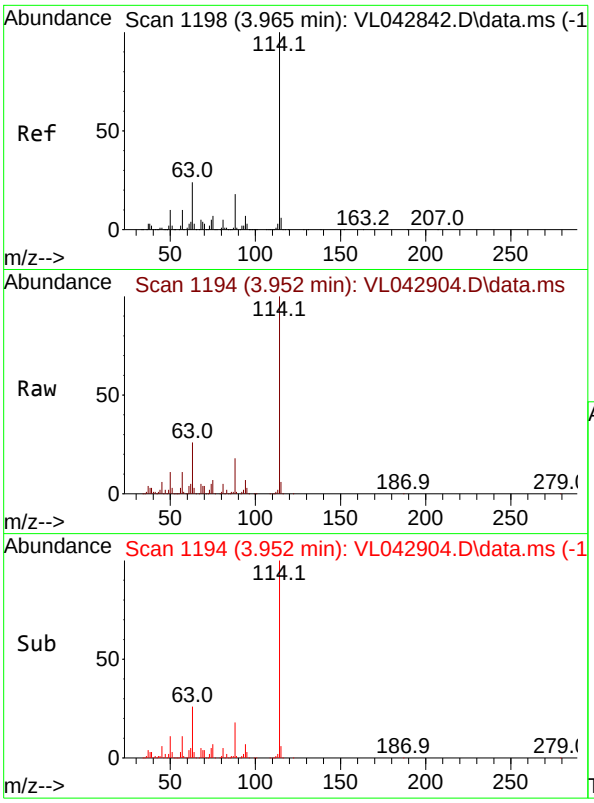


#29
Chloroform
Concen: 0.285 ppbv
RT: 2.845 min Scan# 852
Delta R.T. 0.006 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion: 83 Resp: 8304

Ion	Ratio	Lower	Upper
83	100		
85	55.5	51.1	76.7





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1
Delta R.T. 0.009 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

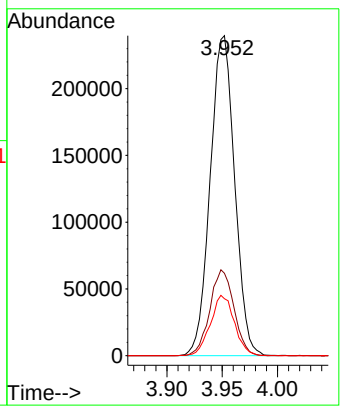
Tgt Ion:114 Resp: 36855

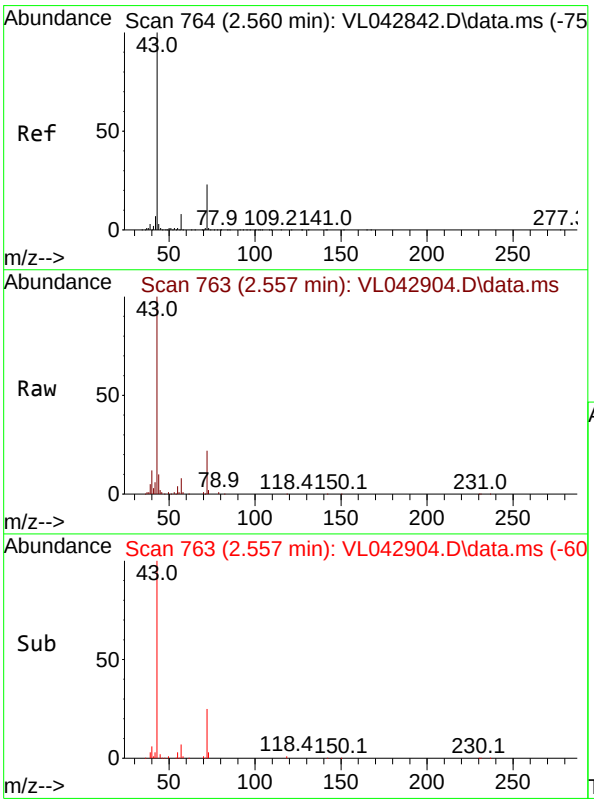
Ion	Ratio	Lower	Upper
114	100		
63	26.4	19.7	29.5
88	18.5	14.4	21.6

Instrument :
MSVOA_L
ClientSampleId :
IA-2

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

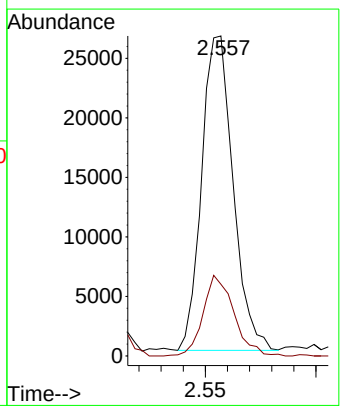


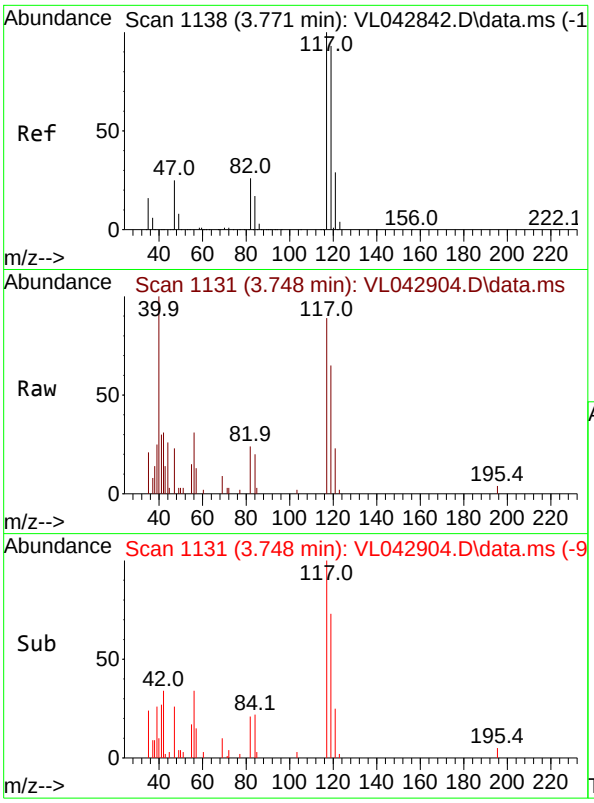


#34
2-Butanone
Concen: 1.048 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.009 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion: 43 Resp: 26086

Ion	Ratio	Lower	Upper
43	100		
72	25.2	18.6	28.0

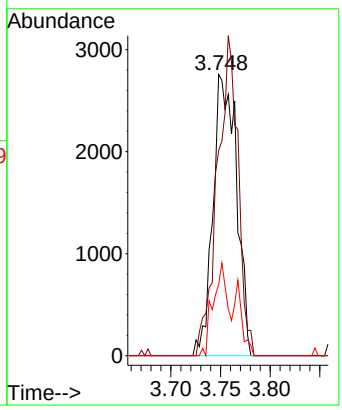




#35
Carbon Tetrachloride
Concen: 0.179 ppbv m
RT: 3.748 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion:117 Resp: 455

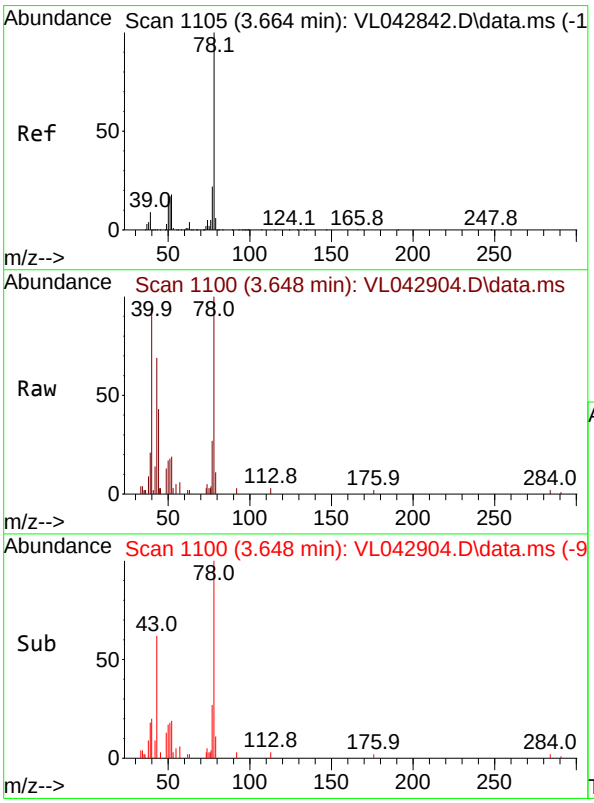
Ion	Ratio	Lower	Upper
117	100		
119	73.0	74.7	112.1#
121	25.4	23.2	34.8



Instrument :
MSVOA_L
ClientSampleId :
IA-2

Manual Integrations
APPROVED

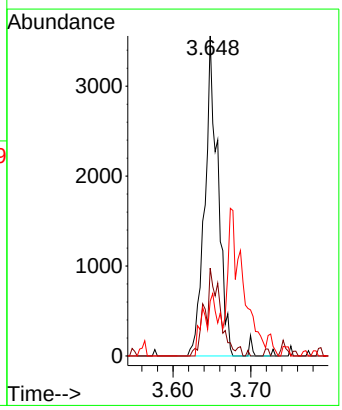
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

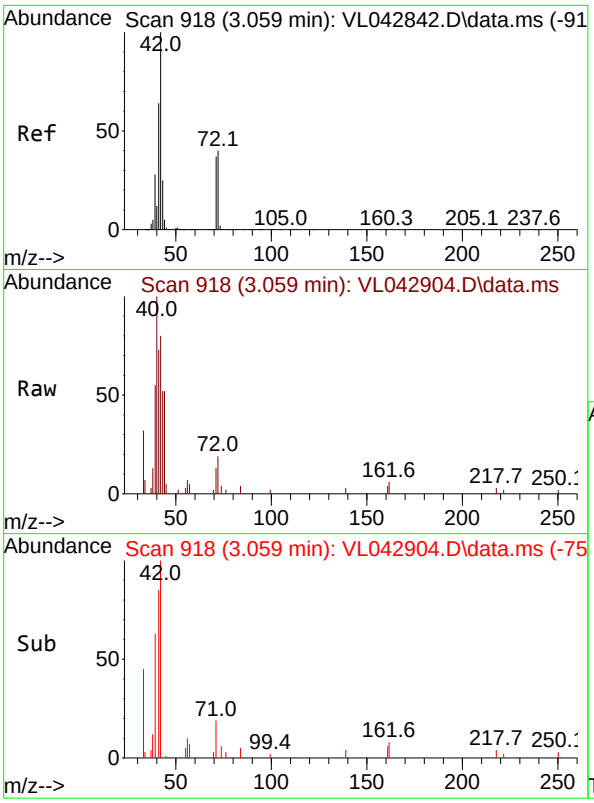


#36
Benzene
Concen: 0.120 ppbv m
RT: 3.648 min Scan# 1100
Delta R.T. 0.003 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion: 78 Resp: 4228

Ion	Ratio	Lower	Upper
78	100		
77	27.5	17.7	26.5#
50	17.1	13.9	20.9

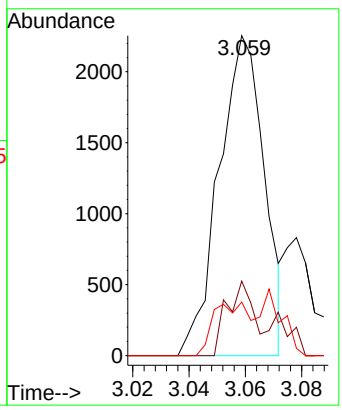




#41
Tetrahydrofuran
Concen: 0.181 ppbv
RT: 3.059 min Scan# 91
Delta R.T. 0.016 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion: 42 Resp: 251

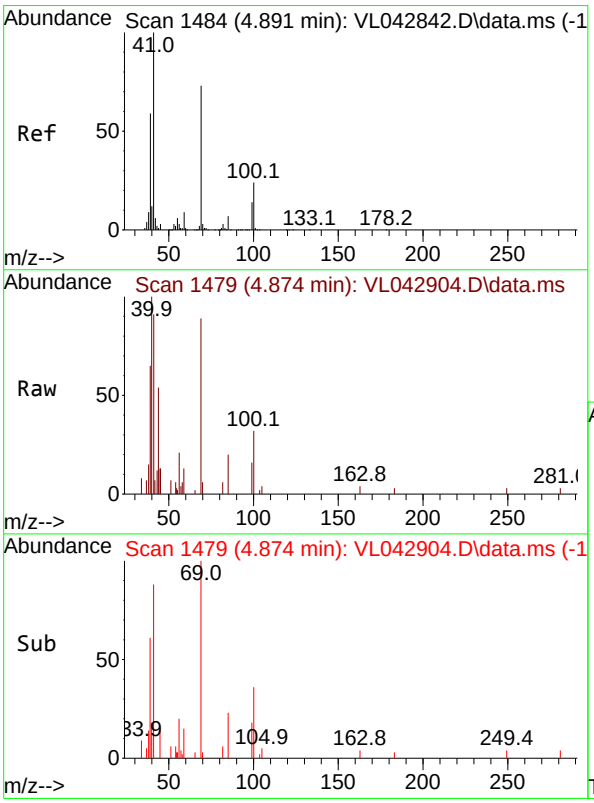
Ion	Ratio	Lower	Upper
42	100		
72	19.8	32.6	48.8#
71	0.0	30.0	45.0#



Instrument :
MSVOA_L
ClientSampleId :
IA-2

Manual Integrations
APPROVED

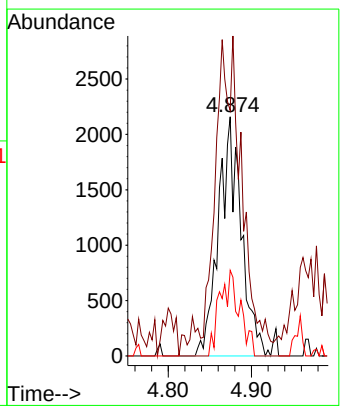
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

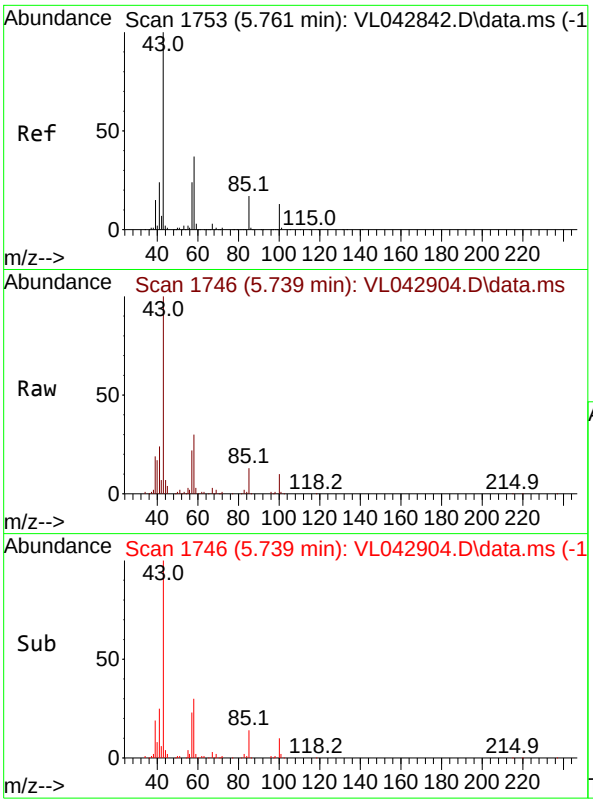


#43
Methyl Methacrylate
Concen: 0.285 ppbv m
RT: 4.874 min Scan# 1479
Delta R.T. 0.016 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion: 69 Resp: 4146

Ion	Ratio	Lower	Upper
69	100		
41	0.0	114.6	172.0#
100	31.1	30.2	45.4

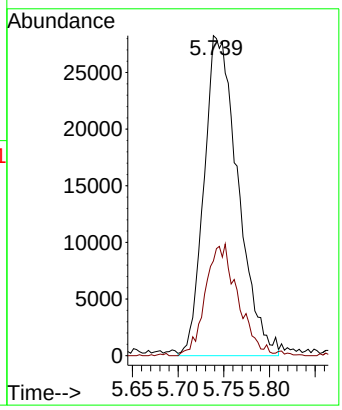




#50
4-Methyl-2-Pentanone
Concen: 2.170 ppbv m
RT: 5.739 min Scan# 1
Delta R.T. 0.009 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion: 43 Resp: 7297

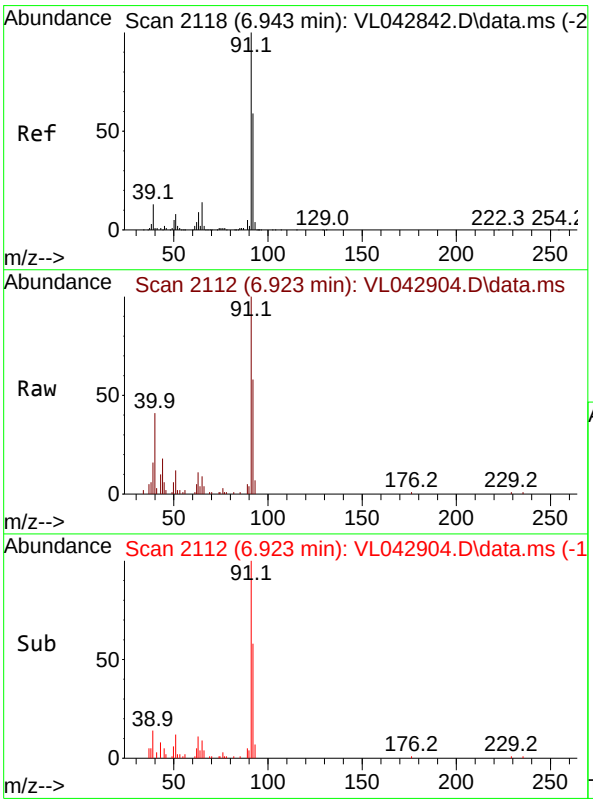
Ion	Ratio	Lower	Upper
43	100		
58	0.0	29.8	44.8



Instrument :
MSVOA_L
ClientSampleId :
IA-2

Manual Integrations
APPROVED

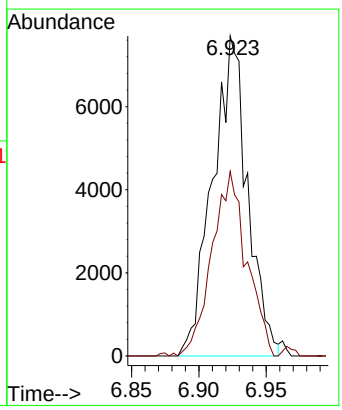
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

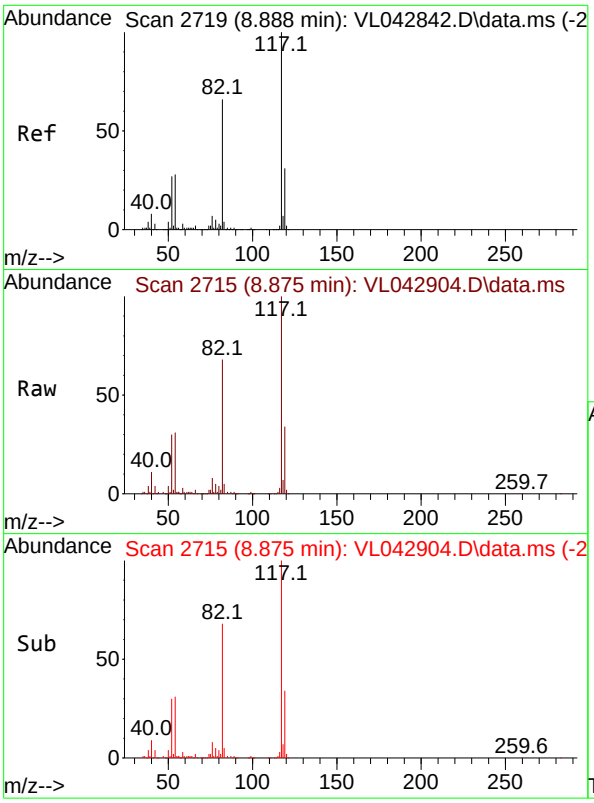


#53
Toluene
Concen: 0.331 ppbv
RT: 6.923 min Scan# 2112
Delta R.T. 0.009 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion: 91 Resp: 13909

Ion	Ratio	Lower	Upper
91	100		
92	58.3	47.8	71.6

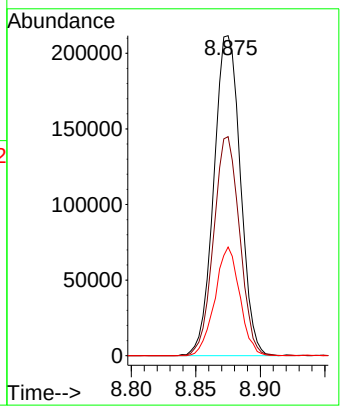




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion:117 Resp: 30221

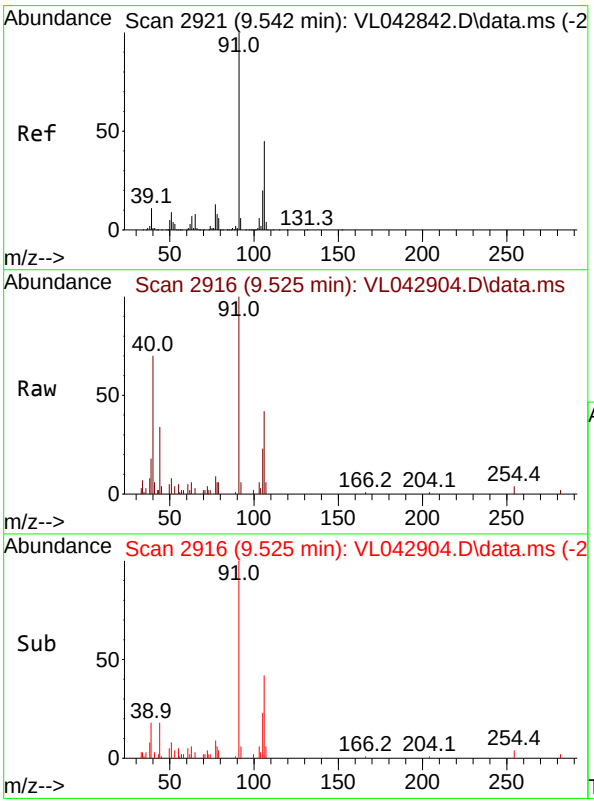
Ion	Ratio	Lower	Upper
117	100		
82	67.0	54.6	81.8
119	32.0	25.9	38.9



Instrument :
MSVOA_L
ClientSampleId :
IA-2

Manual Integrations
APPROVED

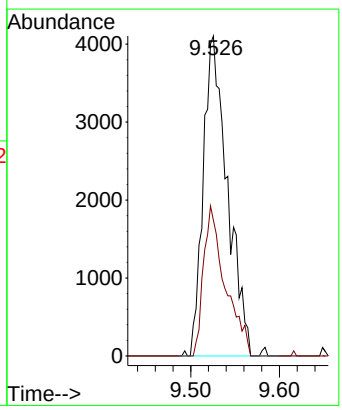
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

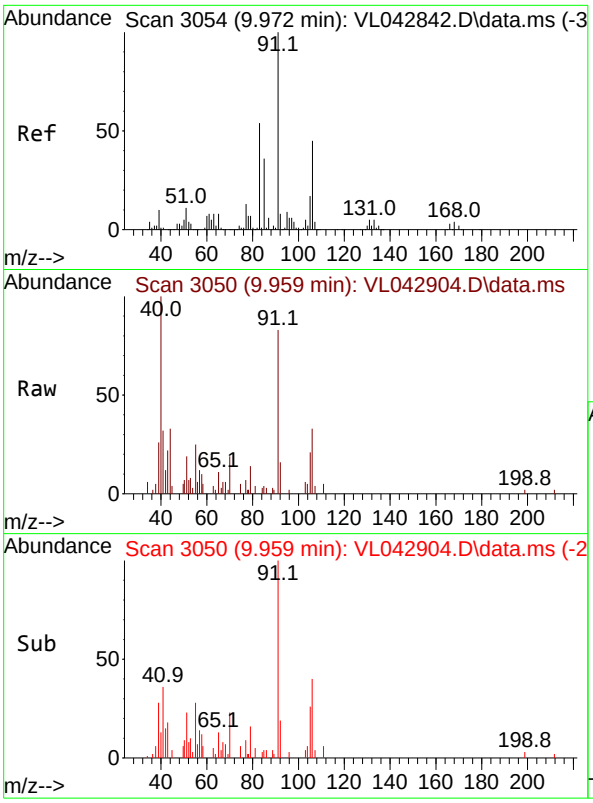


#59
m/p-Xylene
Concen: 0.186 ppbv m
RT: 9.525 min Scan# 2916
Delta R.T. -0.013 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion: 91 Resp: 7779

Ion	Ratio	Lower	Upper
91	100		
106	0.0	0.0	0.0

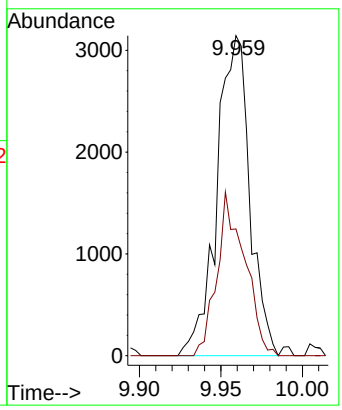




#60
o-Xylene
Concen: 0.105 ppbv
RT: 9.959 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion: 91 Resp: 439

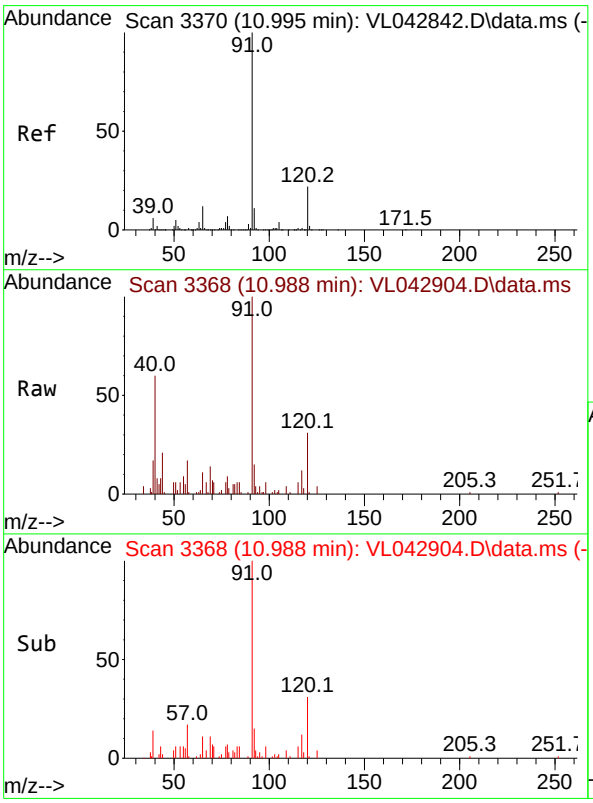
Ion	Ratio	Lower	Upper
91	100		
106	43.3	21.8	65.4



Instrument :
MSVOA_L
ClientSampleId :
IA-2

Manual Integrations
APPROVED

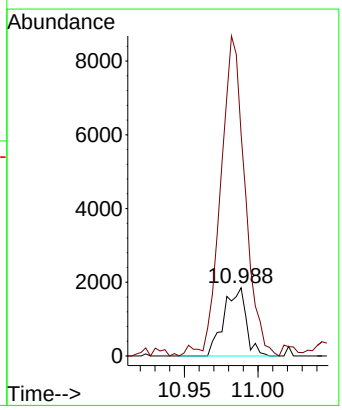
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

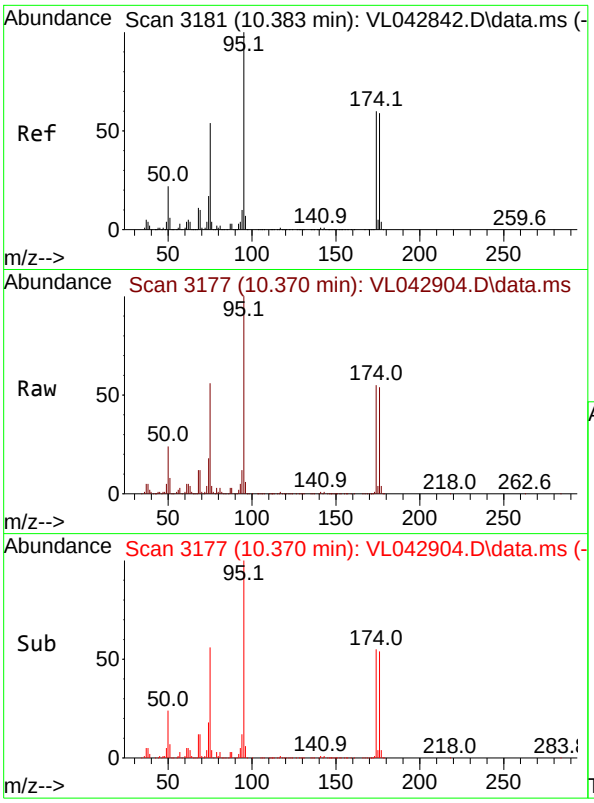


#64
n-propylbenzene
Concen: 0.123 ppbv m
RT: 10.988 min Scan# 3368
Delta R.T. 0.009 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion:120 Resp: 1936

Ion	Ratio	Lower	Upper
120	100		
91	0.0	375.8	563.6#

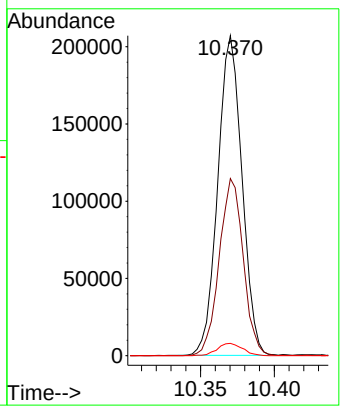




#68
1-Bromo-4-Fluorobenzene
Concen: 10.432 ppbv
RT: 10.370 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion: 95 Resp: 23645

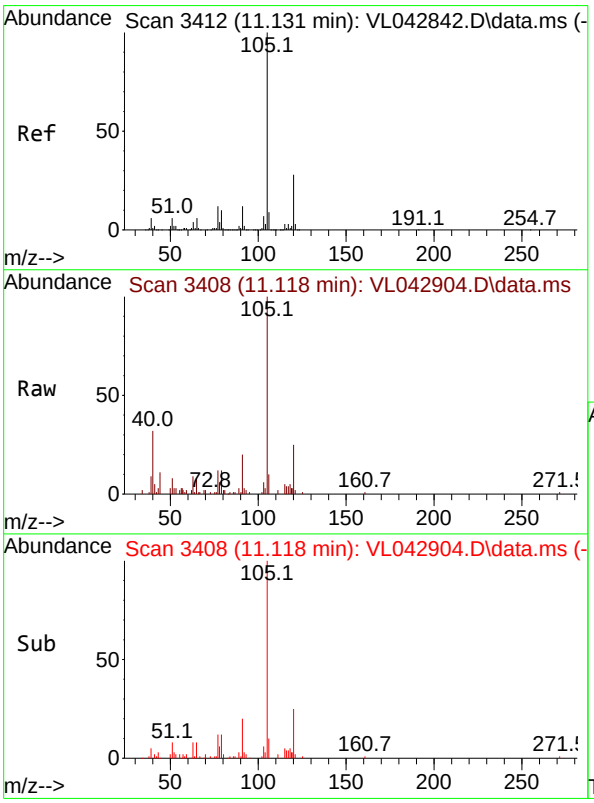
Ion	Ratio	Lower	Upper
95	100		
174	55.3	48.4	72.6
175	4.0	3.8	5.8



Instrument :
MSVOA_L
ClientSampleId :
IA-2

Manual Integrations
APPROVED

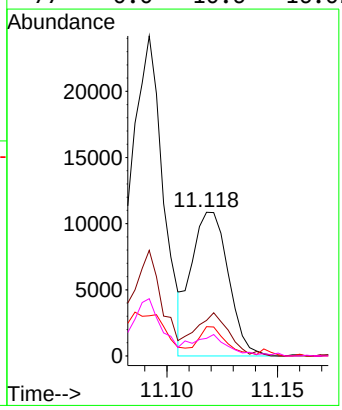
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

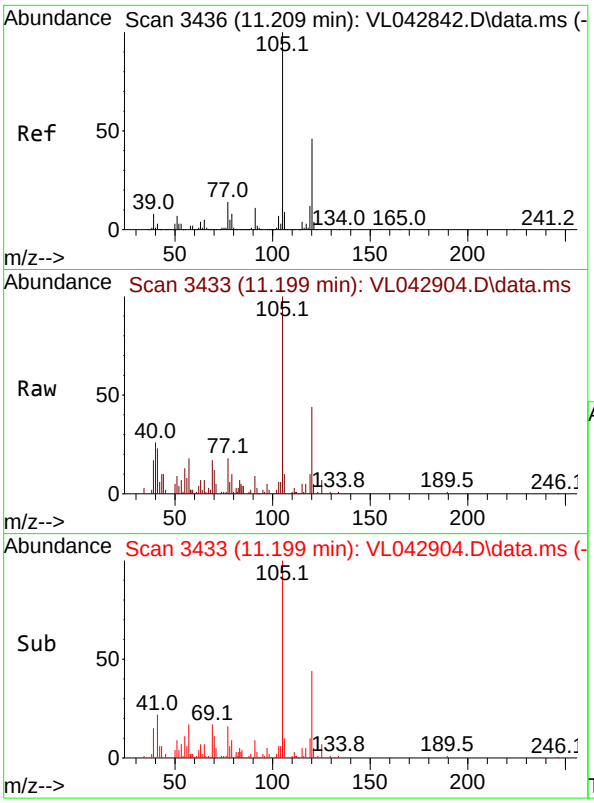


#72
4-Ethyltoluene
Concen: 0.249 ppbv
RT: 11.118 min Scan# 3408
Delta R.T. -0.000 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion:105 Resp: 12697

Ion	Ratio	Lower	Upper
105	100		
120	0.0	23.4	35.2#
91	14.1	9.8	14.6
77	0.0	10.6	16.0#

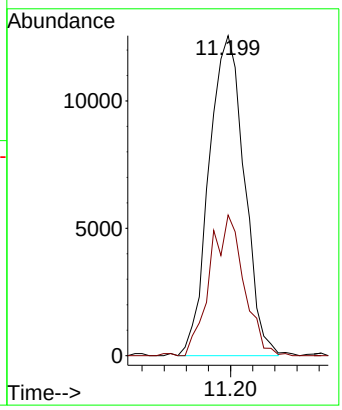




#73
1,3,5-Trimethylbenzene
Concen: 0.320 ppbv
RT: 11.199 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion:105 Resp: 1389

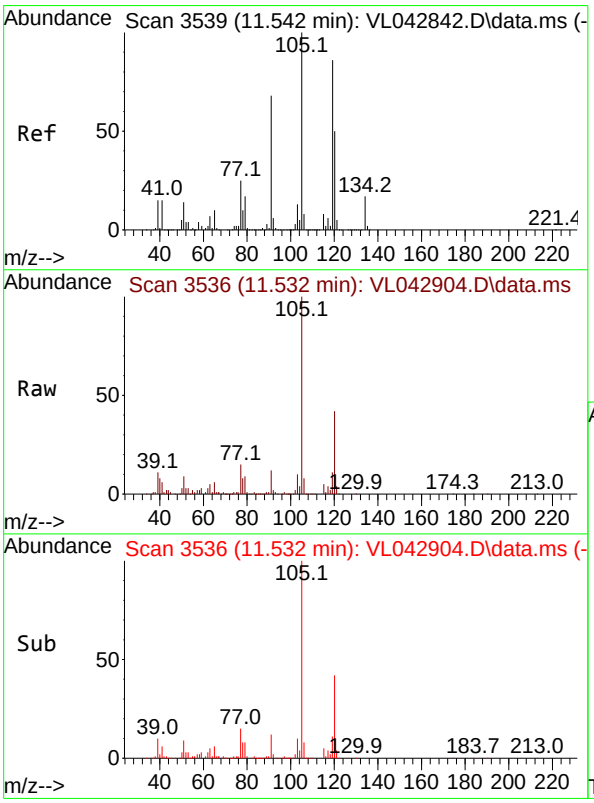
Ion	Ratio	Lower	Upper
105	100		
120	44.0	36.6	54.8



Instrument :
MSVOA_L
ClientSampleId :
IA-2

Manual Integrations
APPROVED

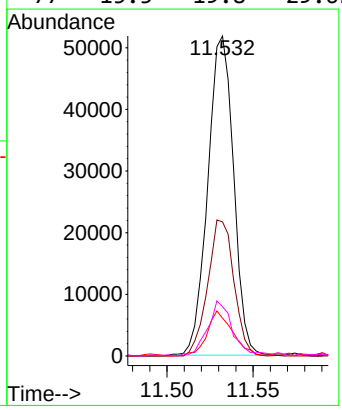
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#74
1,2,4-Trimethylbenzene
Concen: 1.133 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. 0.003 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion:105 Resp: 53900

Ion	Ratio	Lower	Upper
105	100		
120	42.0	39.8	59.6
91	11.6	54.2	81.4#
77	15.5	19.8	29.6#



CALIBRATION SUMMARY

Response Factor Report MSVOA_L

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\
Method File : VL081325AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri 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	Dichlorotetraf...			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
55)	I	Chlorobenzene-d5	----------ISTD----------							
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

Quantitation Report (QT Reviewed)

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

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 1
QLast Update : Thu Aug 14 01:44:36 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

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	2.790	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

Quantitation Report (QT Reviewed)

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

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 1
QLast Update : Thu Aug 14 01:44:36 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

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)
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

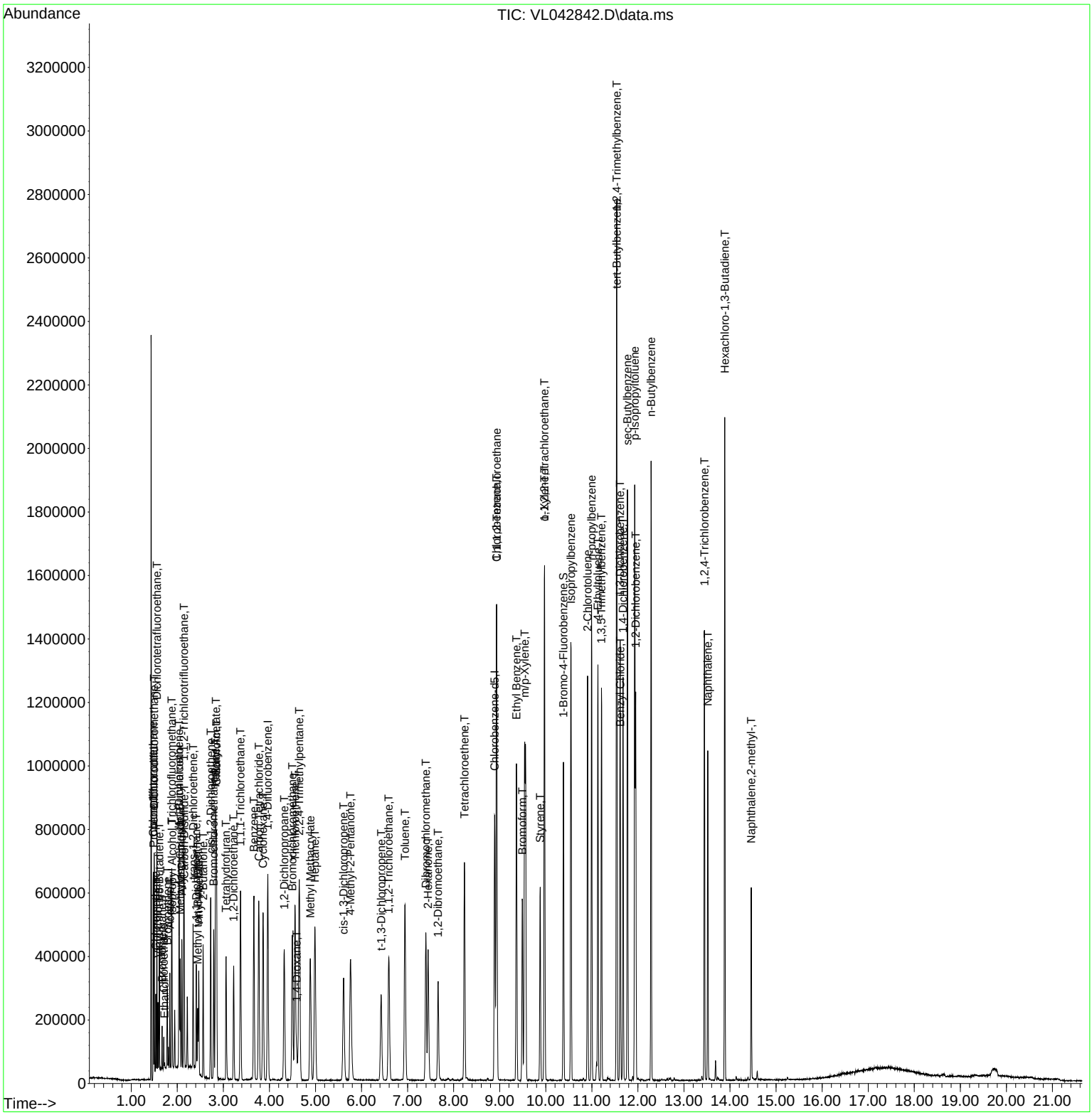
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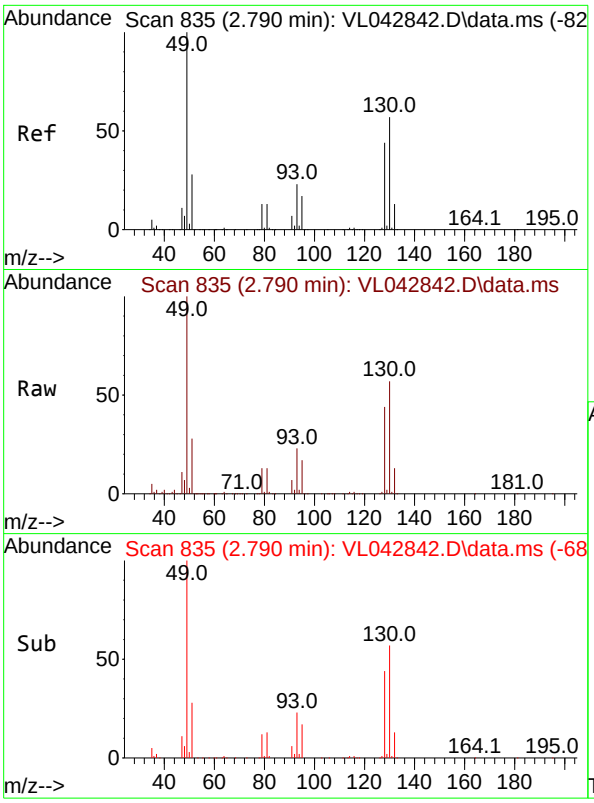
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Data File : VL042842.D
Acq On : 13 Aug 2025 08:30
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

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
QLast Update : Thu Aug 14 01:44:36 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

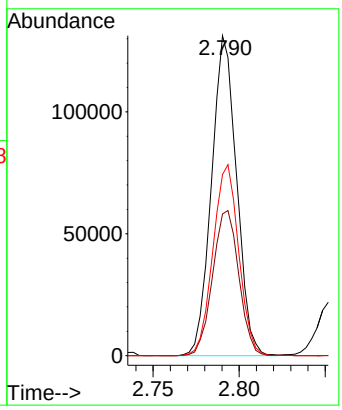




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 49 Resp: 13310

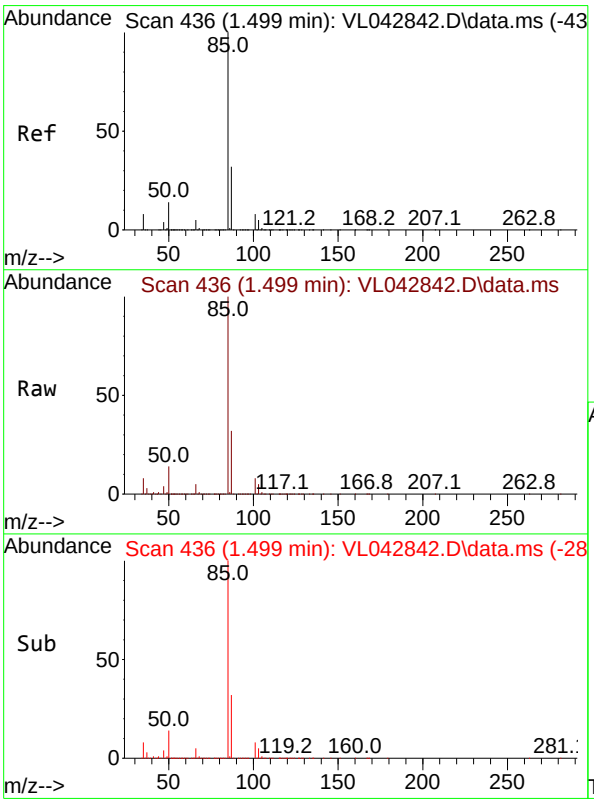
Ion	Ratio	Lower	Upper
49	100		
128	47.4	23.7	71.1
130	61.1	30.6	91.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

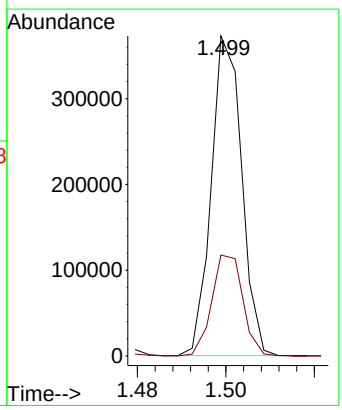
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

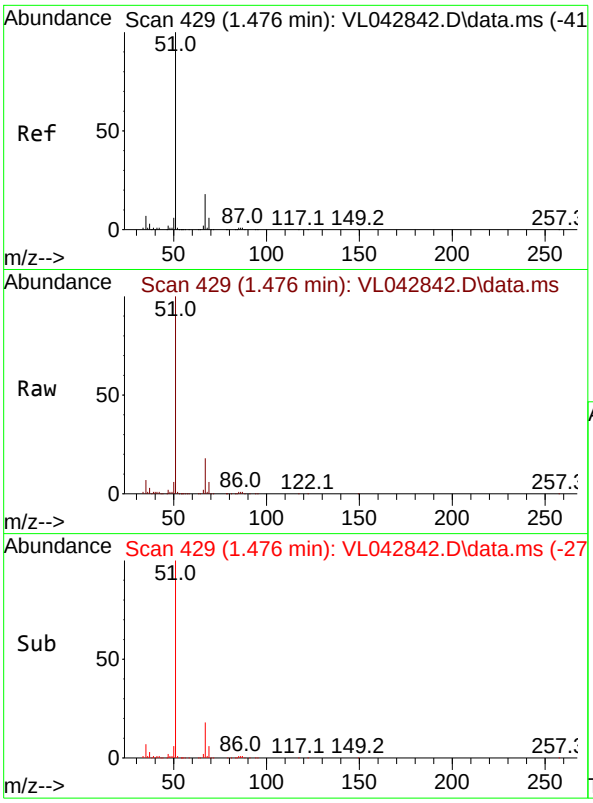


#2
Dichlorodifluoromethane
Concen: 9.166 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 85 Resp: 178799

Ion	Ratio	Lower	Upper
85	100		
87	31.6	25.3	37.9

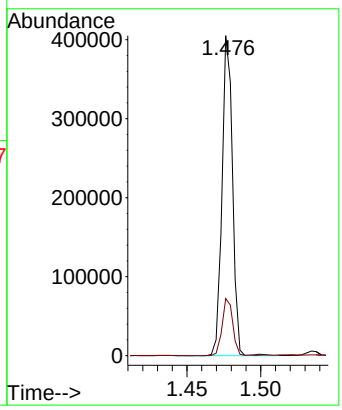




#3
Chlorodifluoromethane
Concen: 9.306 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 51 Resp: 20086

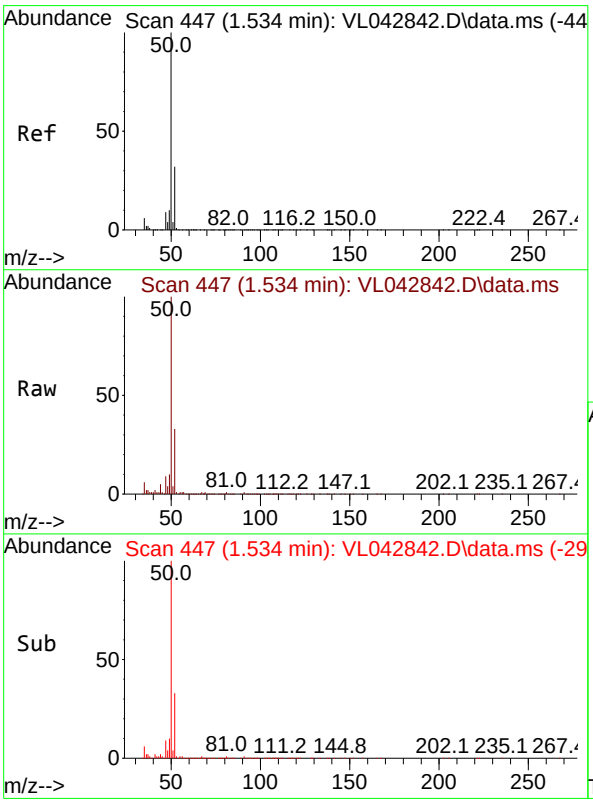
Ion	Ratio	Lower	Upper
51	100		
67	18.6	14.9	22.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

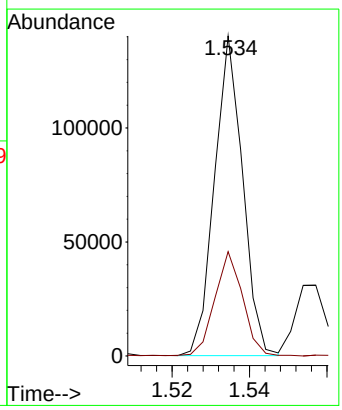
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

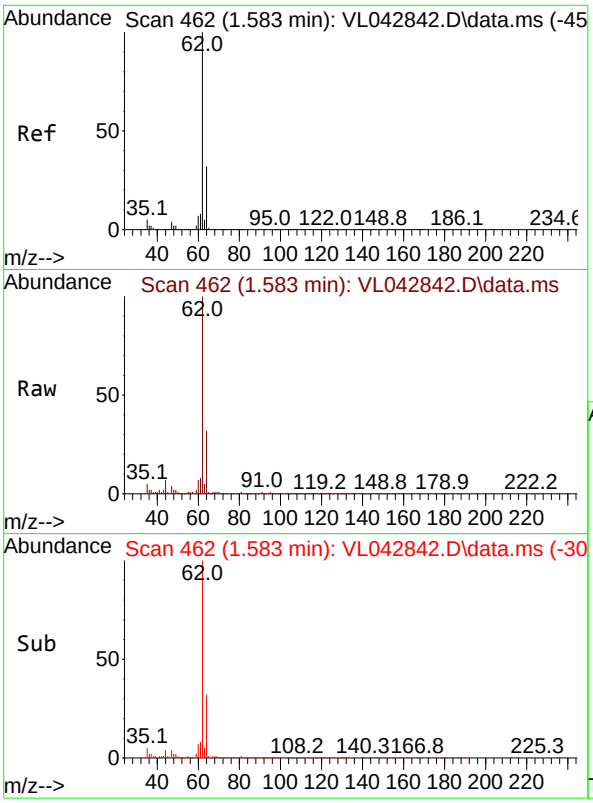


#4
Chloromethane
Concen: 9.013 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 50 Resp: 70952

Ion	Ratio	Lower	Upper
50	100		
52	32.4	25.9	38.9

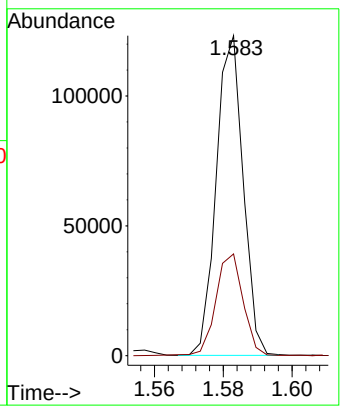




#5
Vinyl Chloride
Concen: 8.612 ppbv
RT: 1.583 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 62 Resp: 6676

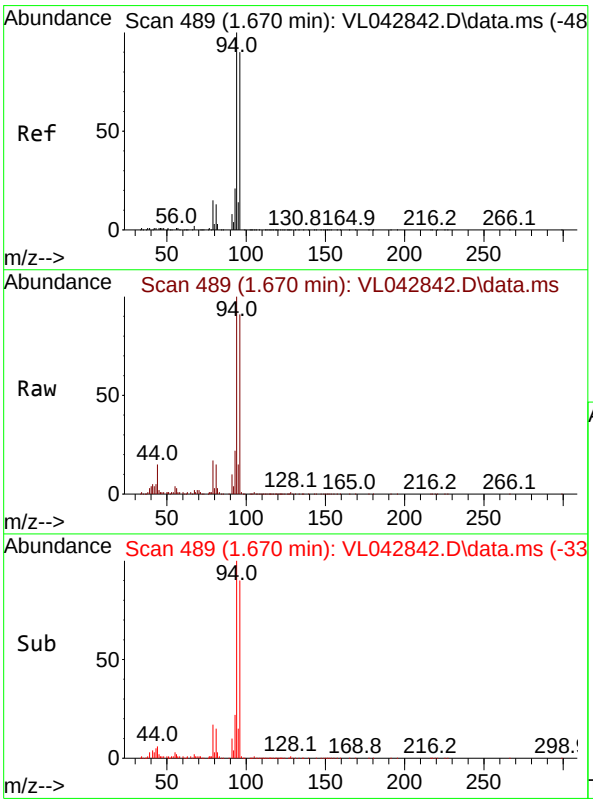
Ion	Ratio	Lower	Upper
62	100		
64	31.8	25.4	38.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

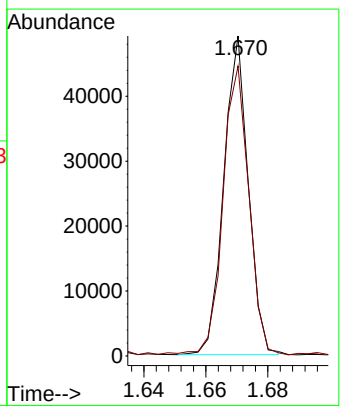
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

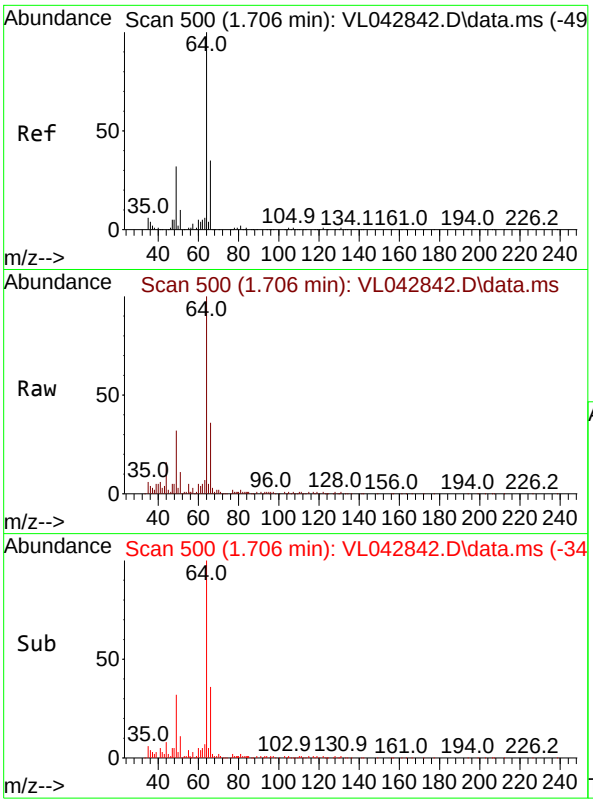


#6
Bromomethane
Concen: 8.698 ppbv
RT: 1.670 min Scan# 489
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 94 Resp: 26964

Ion	Ratio	Lower	Upper
94	100		
96	90.1	72.1	108.1

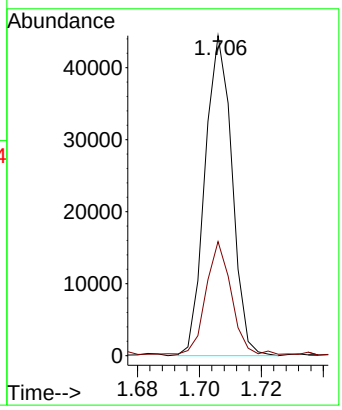




#7
Chloroethane
Concen: 8.879 ppbv
RT: 1.706 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 64 Resp: 2688

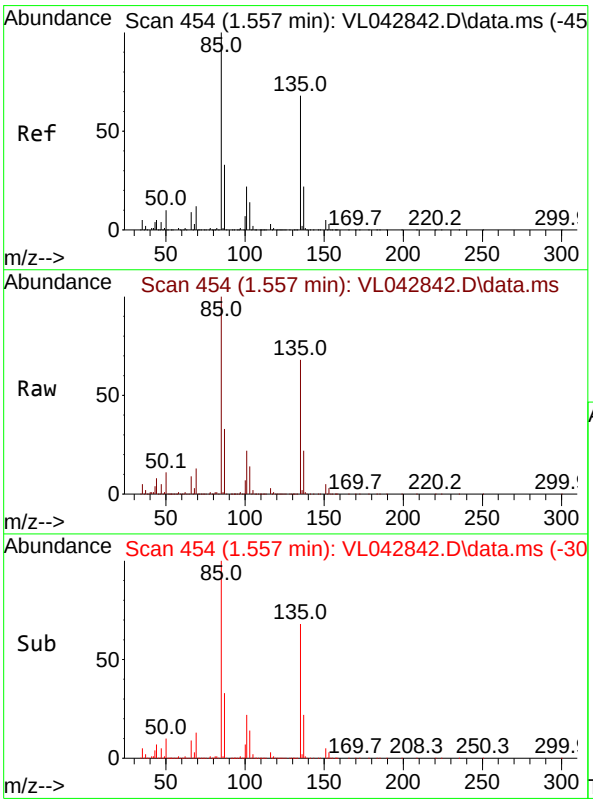
Ion	Ratio	Lower	Upper
64	100		
66	35.7	28.6	42.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

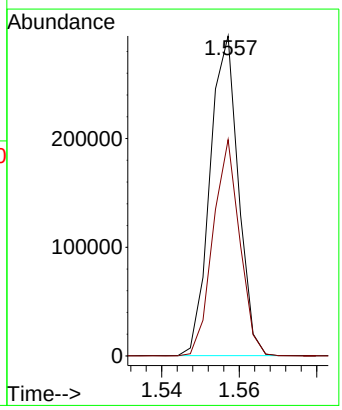
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

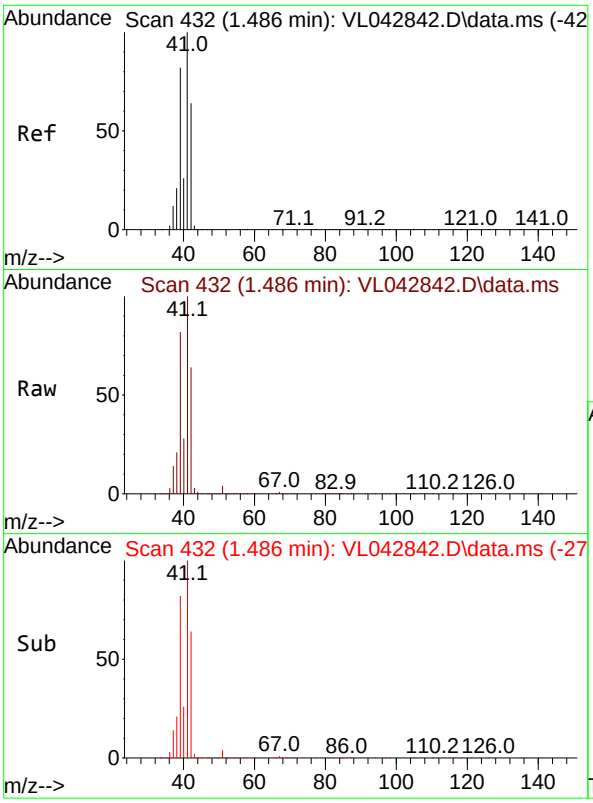


#8
Dichlorotetrafluoroethane
Concen: 9.355 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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# 4
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

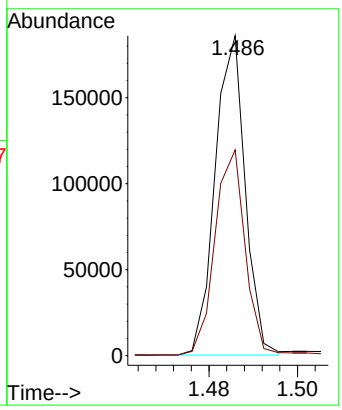
Tgt Ion: 41 Resp: 8735

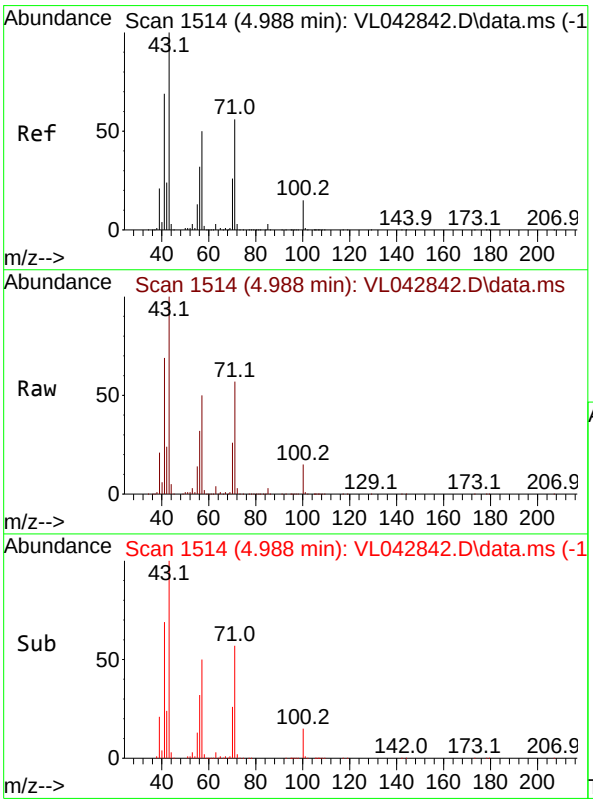
Ion	Ratio	Lower	Upper
41	100		
42	66.2	53.0	79.4

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

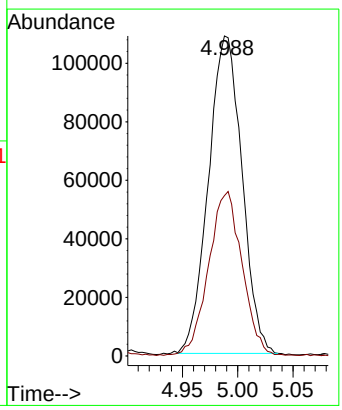


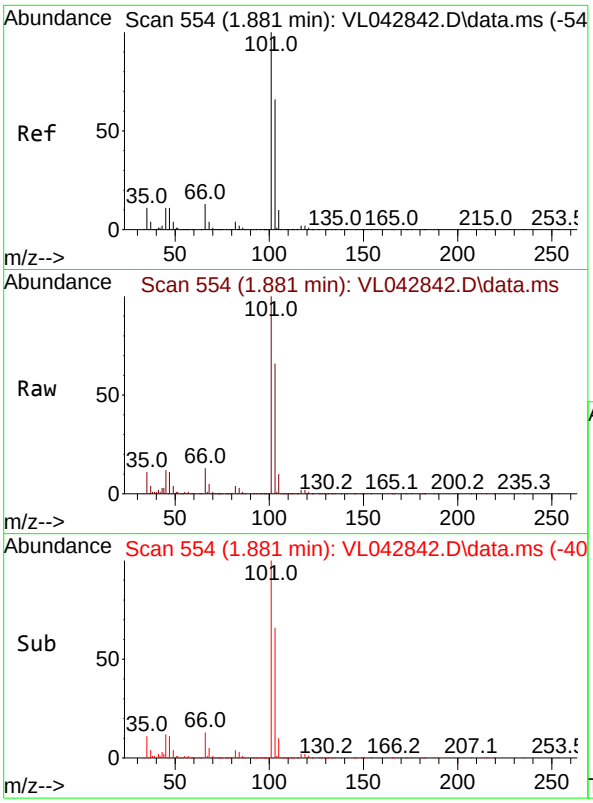


#10
Heptane
Concen: 9.186 ppbv
RT: 4.988 min Scan# 1514
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 43 Resp: 228679

Ion	Ratio	Lower	Upper
43	100		
57	51.7	41.4	62.0

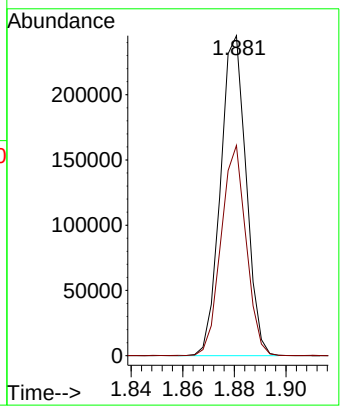




#11
Trichlorofluoromethane
Concen: 8.789 ppbv
RT: 1.881 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion:101 Resp: 16915

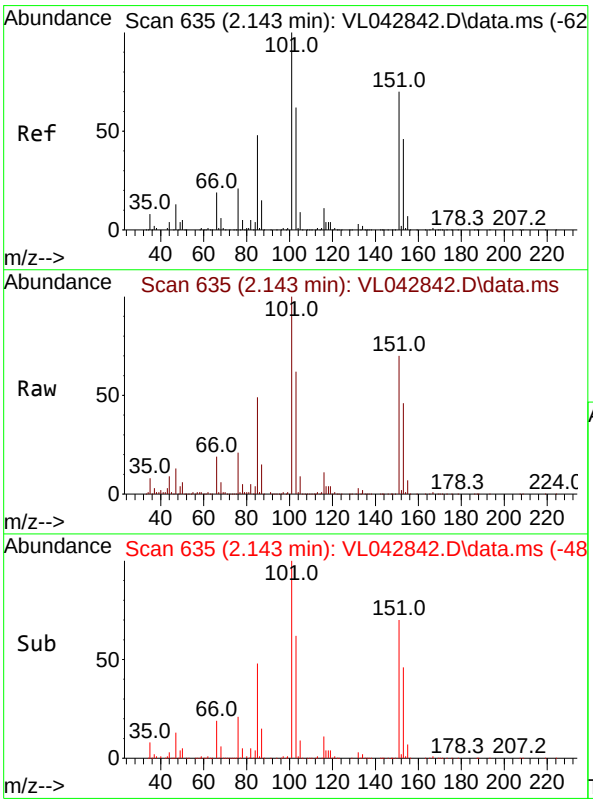
Ion	Ratio	Lower	Upper
101	100		
103	65.6	52.5	78.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

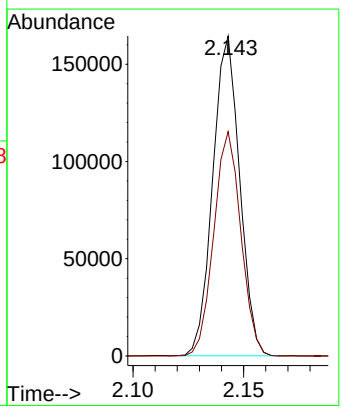
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

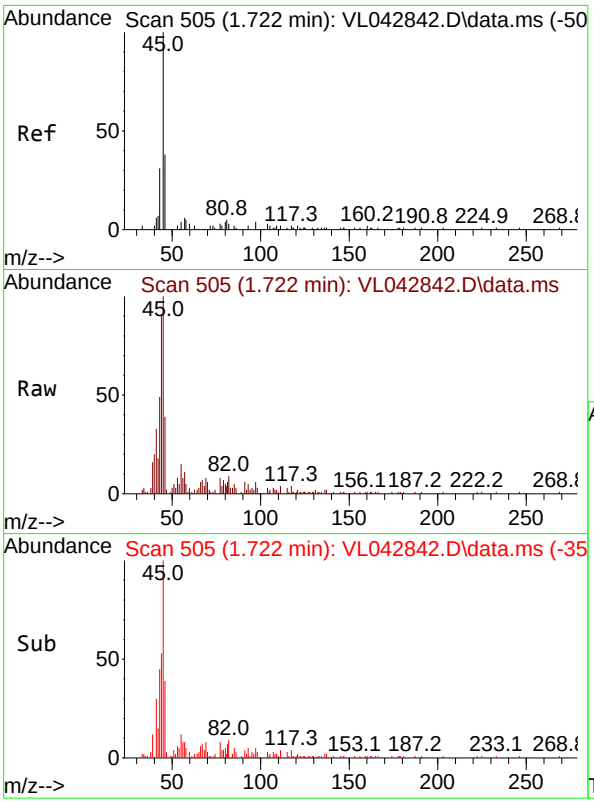


#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.083 ppbv
RT: 2.143 min Scan# 635
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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# 5
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

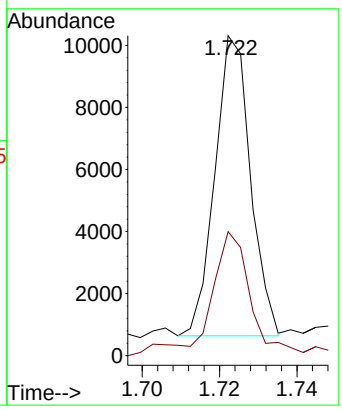
Tgt Ion: 45 Resp: 617

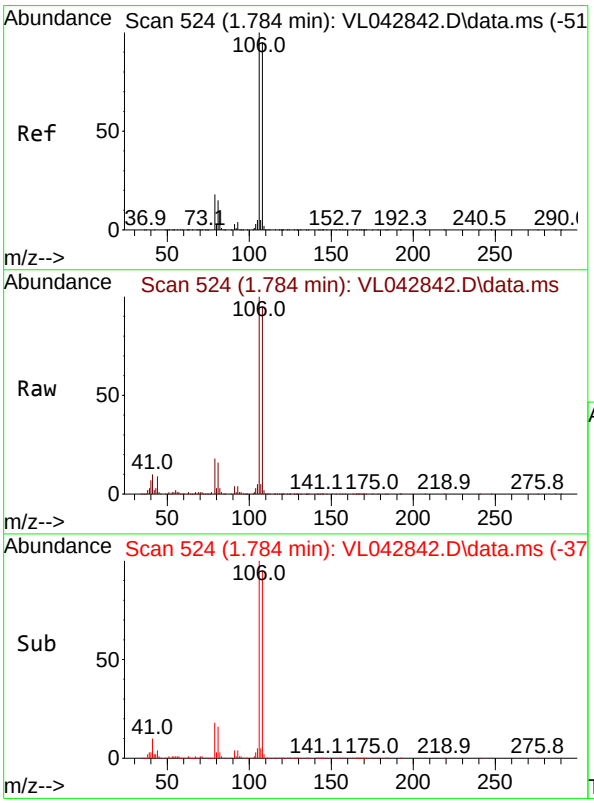
Ion	Ratio	Lower	Upper
45	100		
46	43.7	17.5	69.9

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

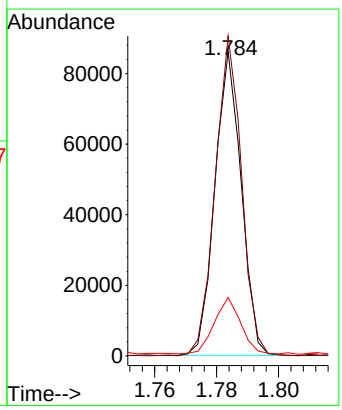


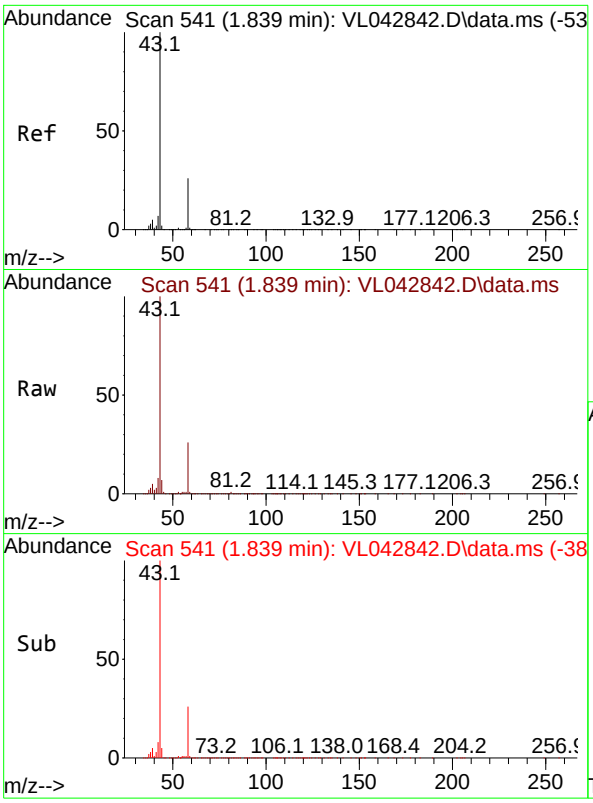


#14
Bromoethene
Concen: 9.135 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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

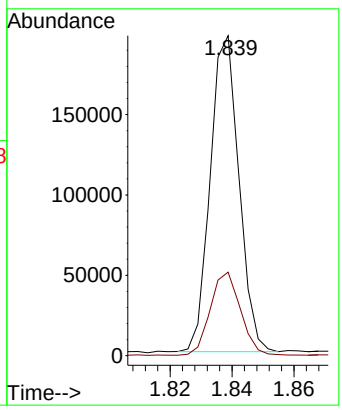




#15
Acetone
Concen: 7.180 ppbv
RT: 1.839 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 43 Resp: 12641

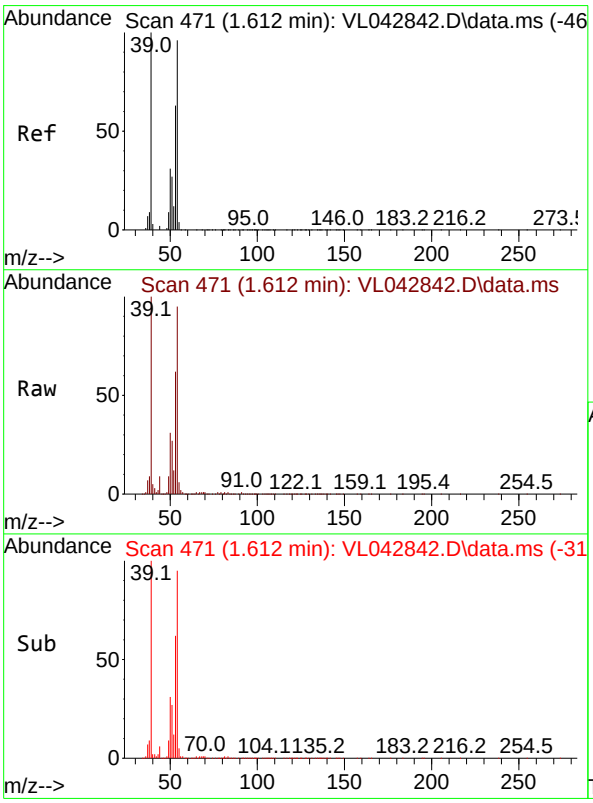
Ion	Ratio	Lower	Upper
43	100		
58	28.0	22.4	33.6



Instrument :
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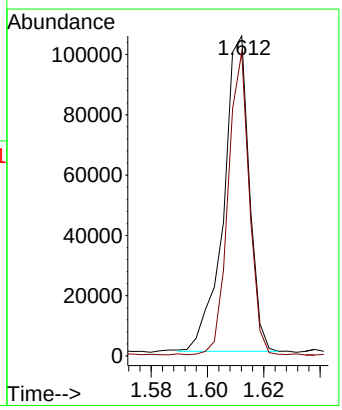
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

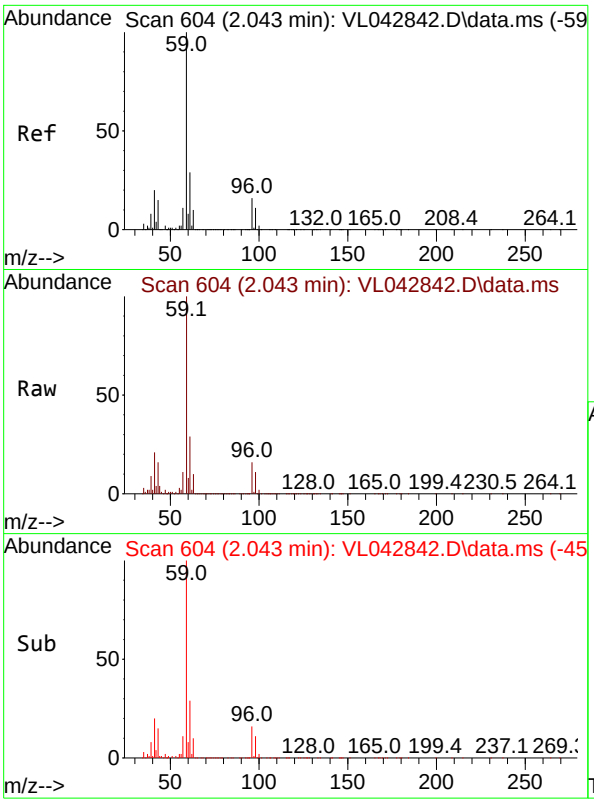


#16
1,3-Butadiene
Concen: 8.343 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 39 Resp: 66595

Ion	Ratio	Lower	Upper
39	100		
54	79.5	63.6	95.4

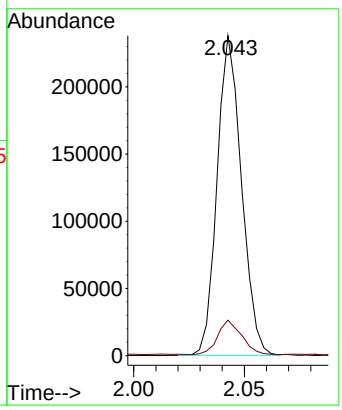




#17
tert-Butyl alcohol
Concen: 8.741 ppbv
RT: 2.043 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 59 Resp: 18251

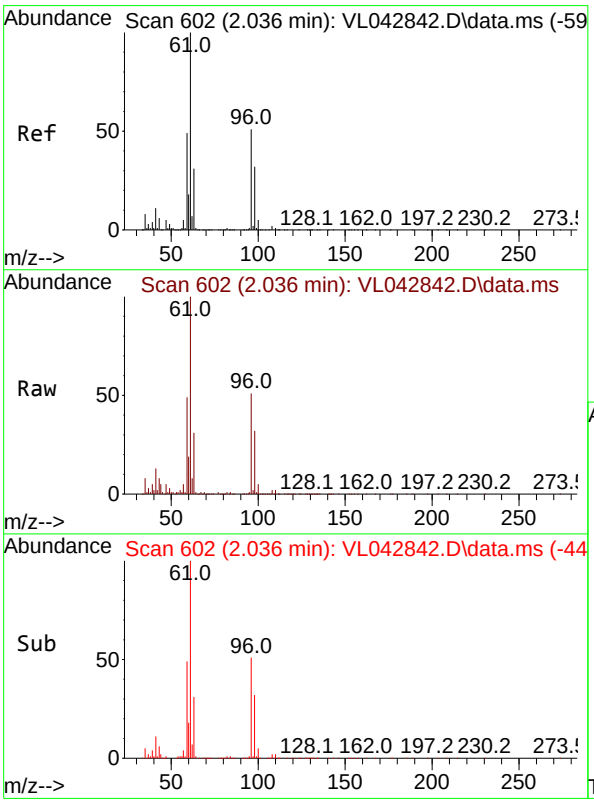
Ion	Ratio	Lower	Upper
59	100		
57	11.2	9.0	13.4



Instrument :
MSVOA_L
ClientSampleId :
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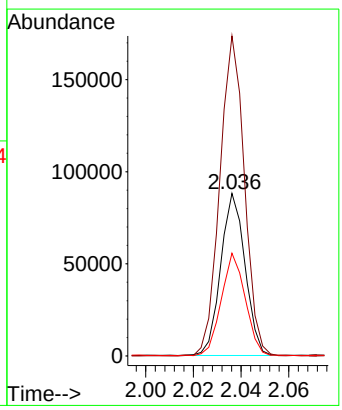
Reviewed By :Semsettin Yesilyurt 08/14/2025
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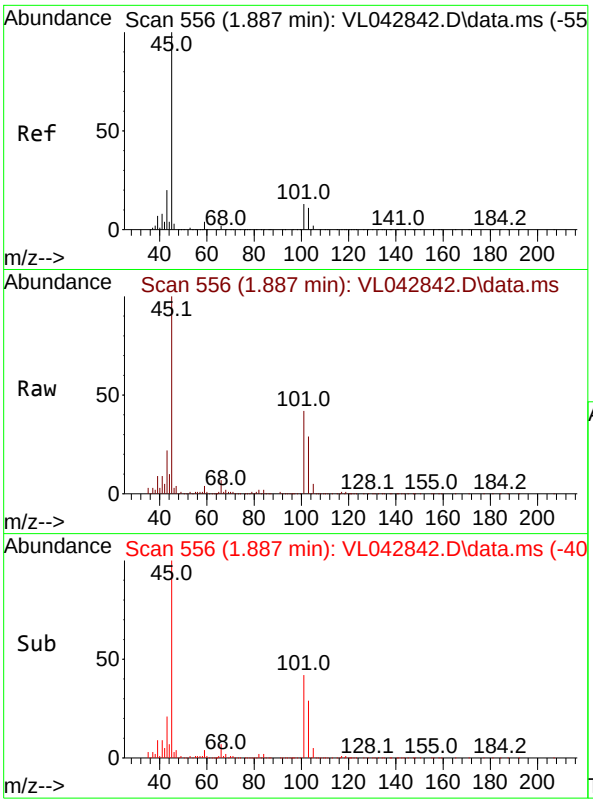


#18
1,1-Dichloroethene
Concen: 9.252 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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

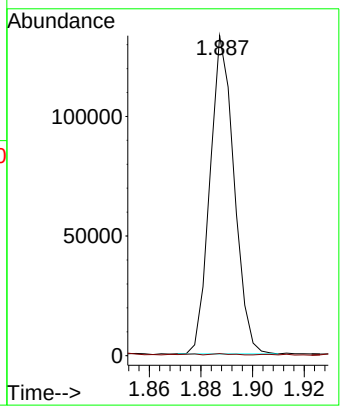




#19
Isopropyl Alcohol
Concen: 8.213 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 45 Resp: 8636

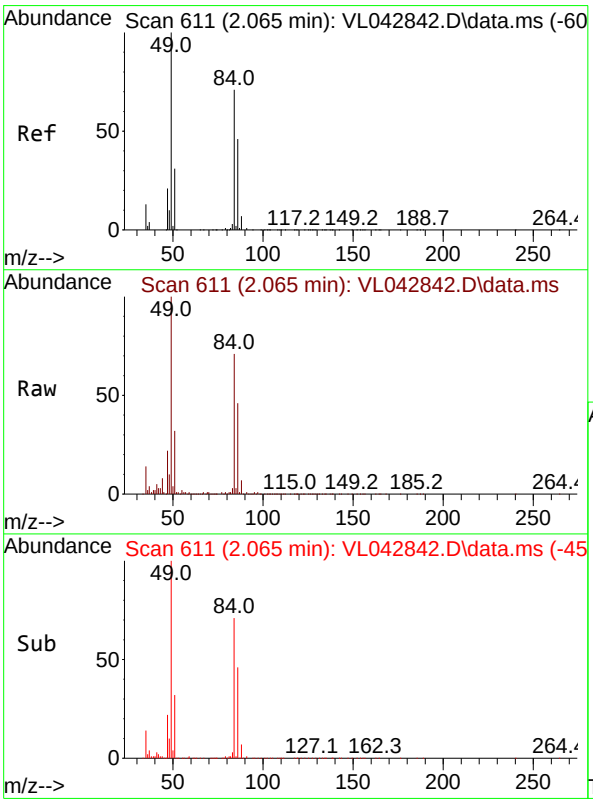
Ion	Ratio	Lower	Upper
45	100		
58	40.9	32.7	49.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
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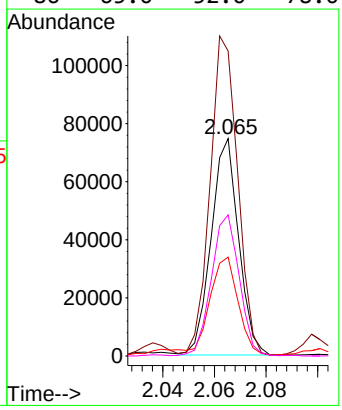
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

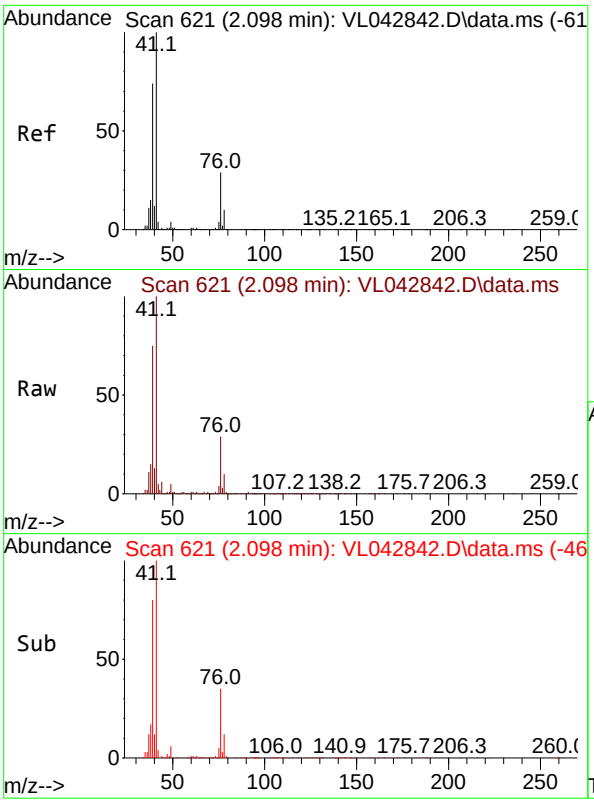


#20
Methylene Chloride
Concen: 7.471 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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

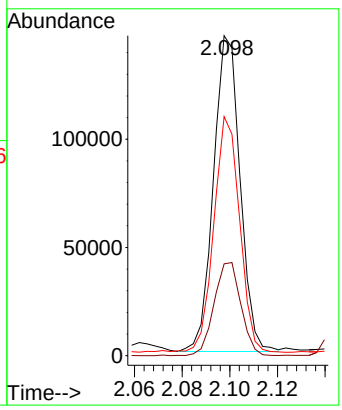




#21
Allyl Chloride
Concen: 9.093 ppbv
RT: 2.098 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 41 Resp: 11310

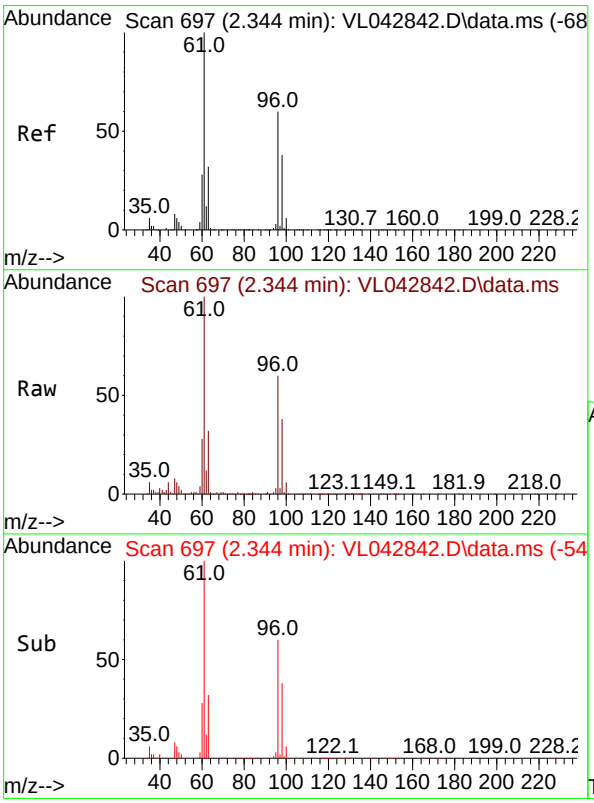
Ion	Ratio	Lower	Upper
41	100		
76	29.9	23.9	35.9
39	72.2	57.8	86.6



Instrument :
MSVOA_L
ClientSampleId :
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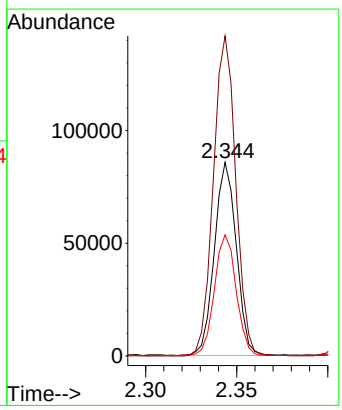
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

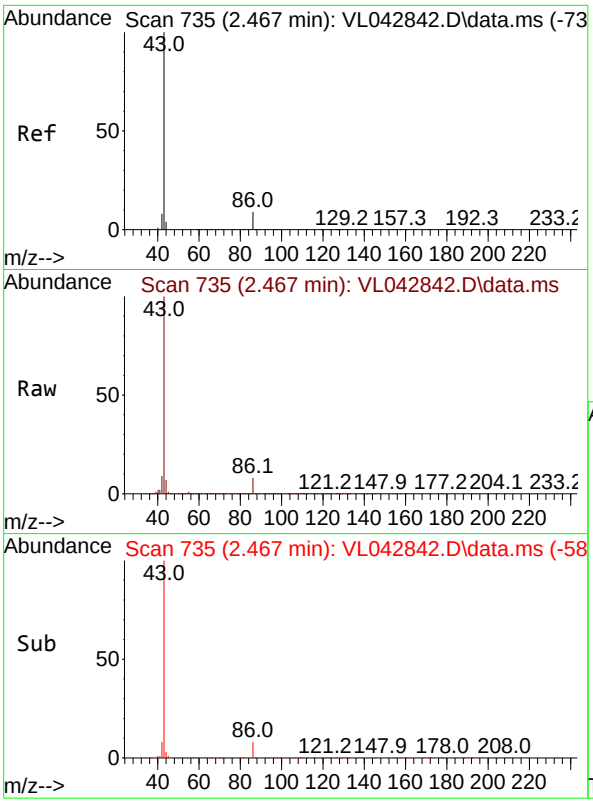


#22
trans-1,2-Dichloroethene
Concen: 9.482 ppbv
RT: 2.344 min Scan# 697
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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

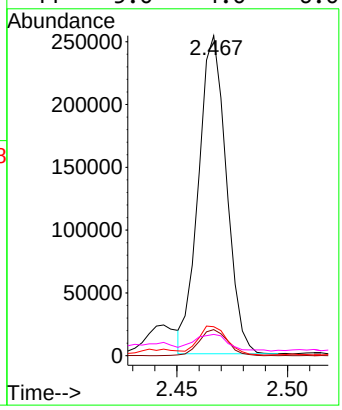




#23
Vinyl Acetate
Concen: 9.558 ppbv
RT: 2.467 min Scan# 7
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 43 Resp: 22139

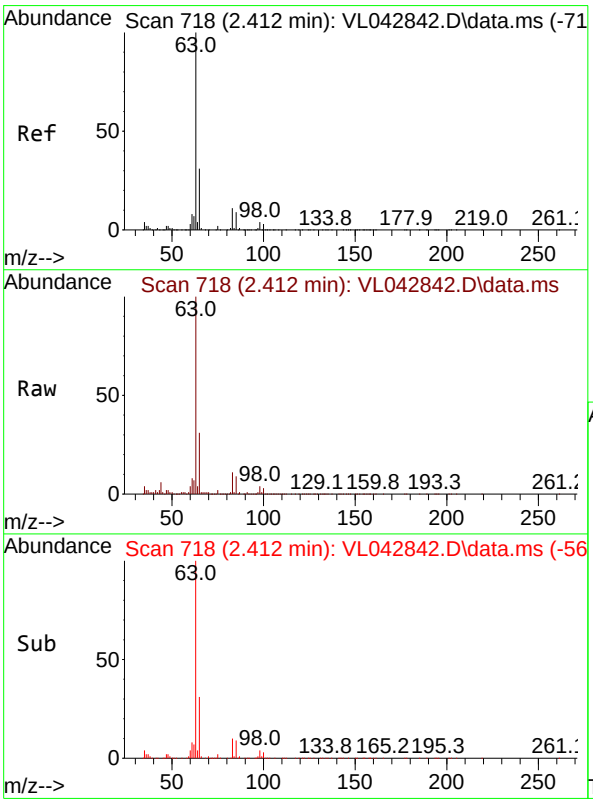
Ion	Ratio	Lower	Upper
43	100		
86	8.2	6.6	9.8
42	8.8	7.0	10.6
44	5.0	4.0	6.0



Instrument :
MSVOA_L
ClientSampleId :
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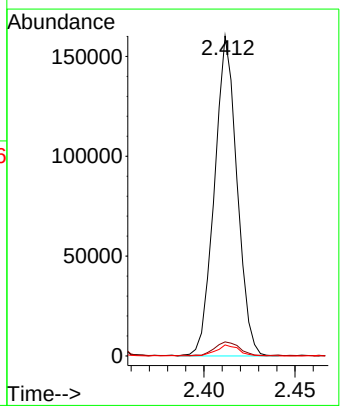
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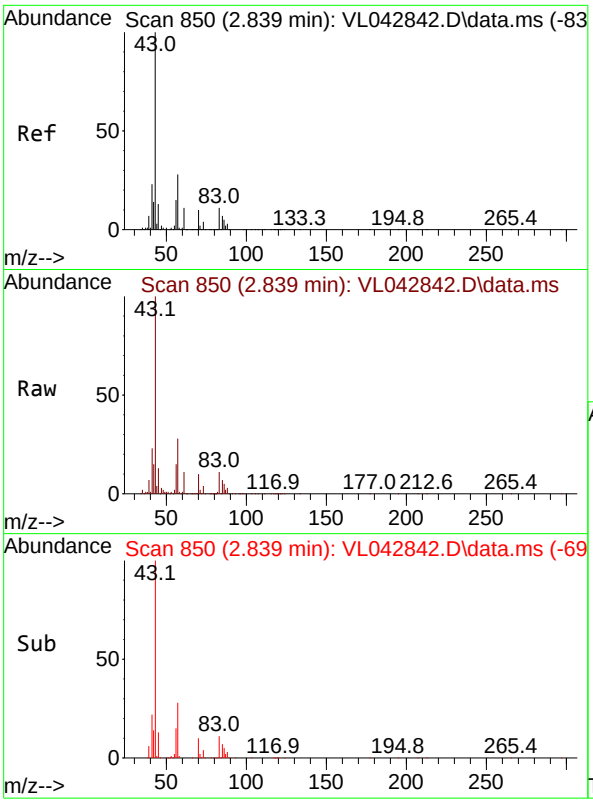


#24
1,1-Dichloroethane
Concen: 8.885 ppbv
RT: 2.412 min Scan# 718
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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

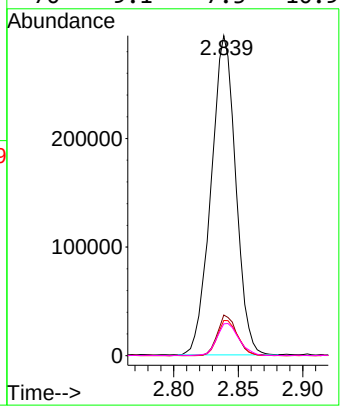




#25
Ethyl Acetate
Concen: 9.159 ppbv
RT: 2.839 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 43 Resp: 39029

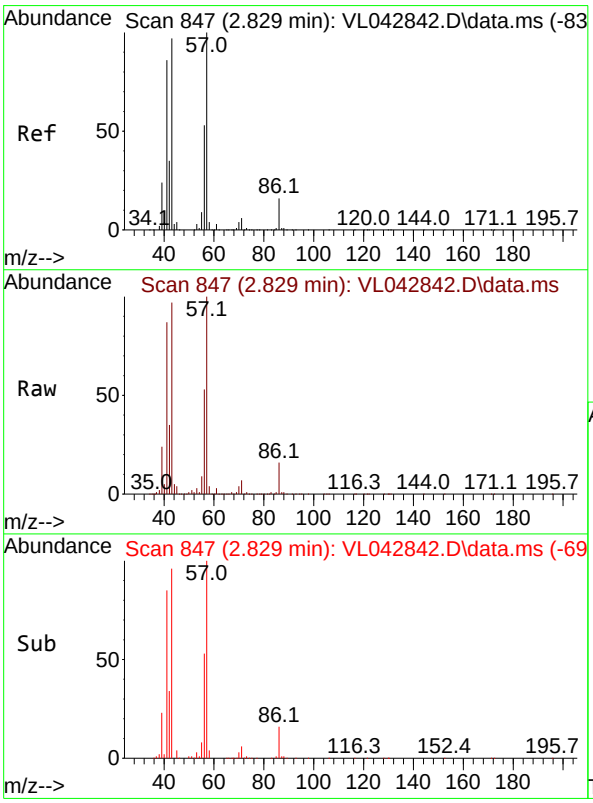
Ion	Ratio	Lower	Upper
43	100		
45	10.1	8.1	12.1
61	9.3	7.4	11.2
70	9.1	7.3	10.9



Instrument :
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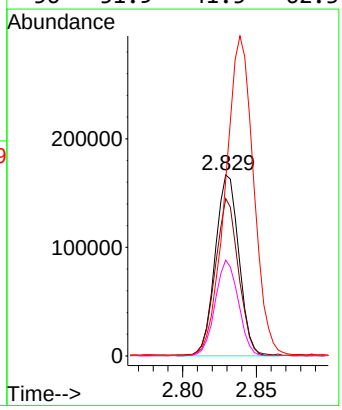
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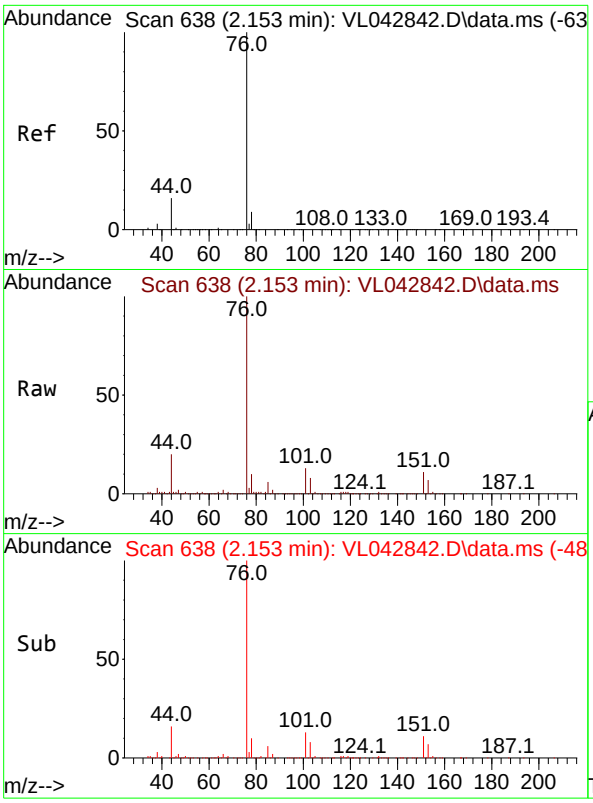


#26
Hexane
Concen: 9.420 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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

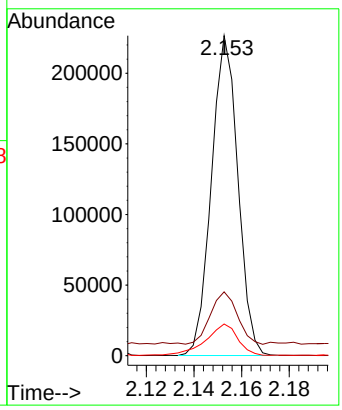




#27
Carbon Disulfide
Concen: 9.138 ppbv
RT: 2.153 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 76 Resp: 17492

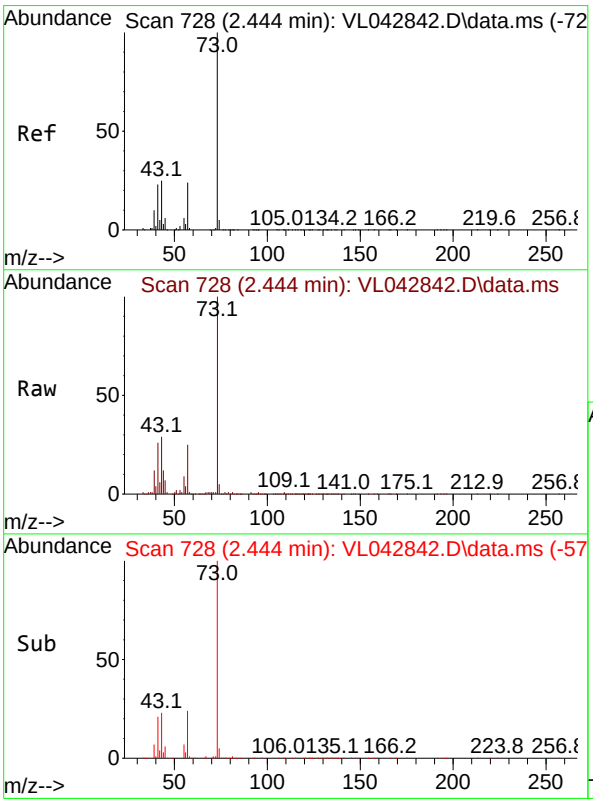
Ion	Ratio	Lower	Upper
76	100		
44	19.9	15.9	23.9
78	11.9	9.5	14.3



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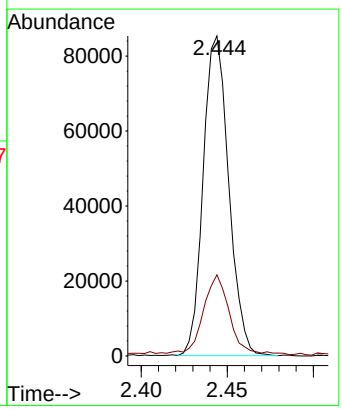
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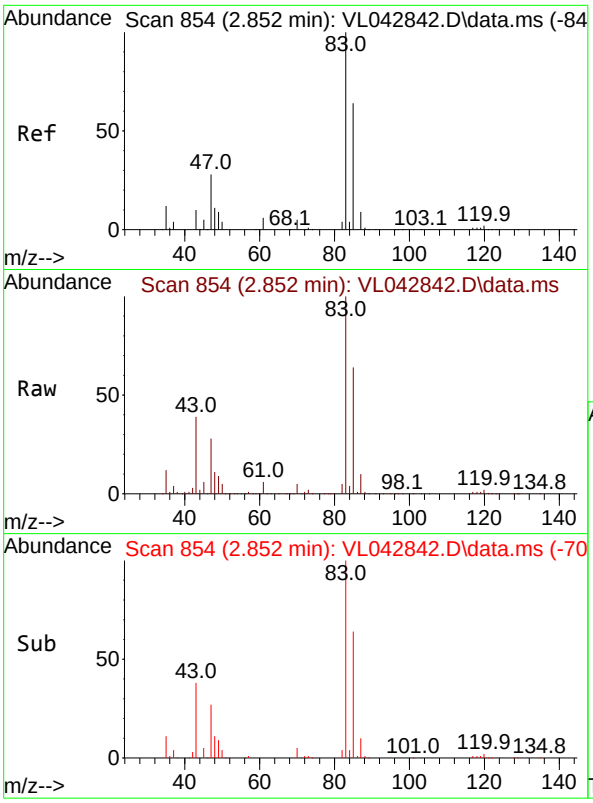


#28
Methyl tert-Butyl Ether
Concen: 8.767 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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# 8
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

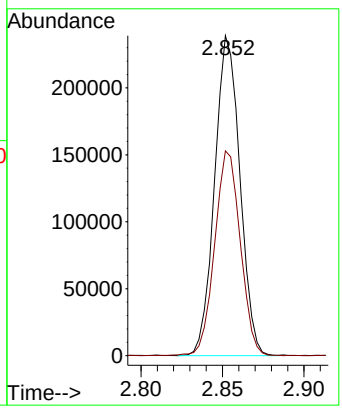
Tgt Ion: 83 Resp: 25717

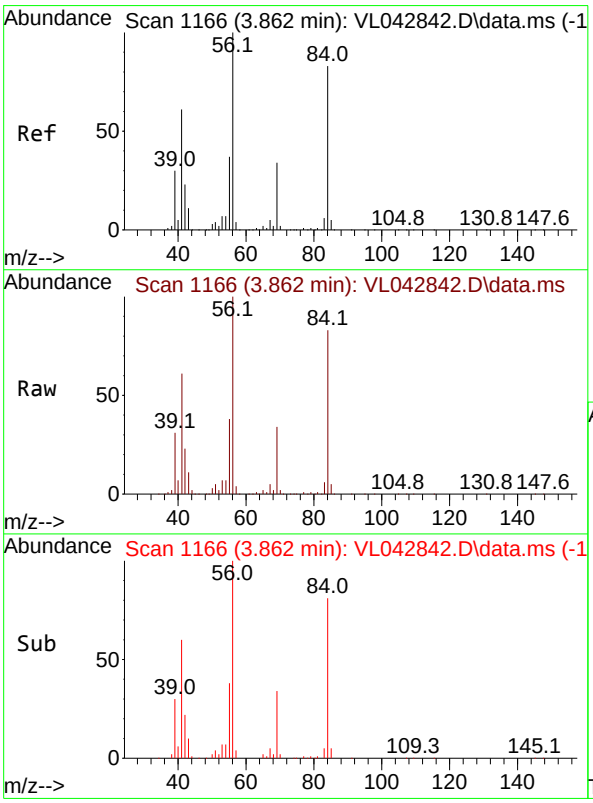
Ion	Ratio	Lower	Upper
83	100		
85	63.9	51.1	76.7

Instrument :
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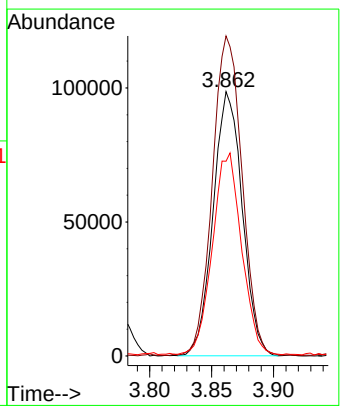


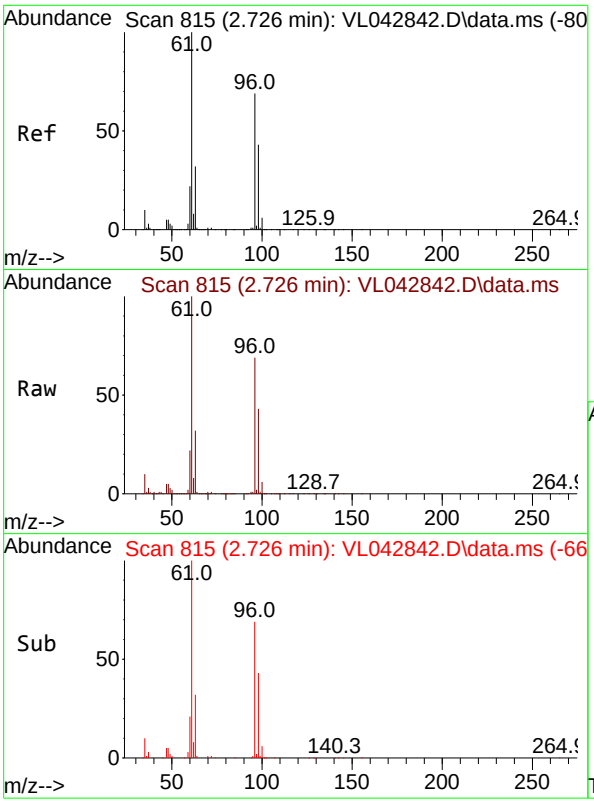


#30
Cyclohexane
Concen: 9.367 ppbv
RT: 3.862 min Scan# 1166
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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

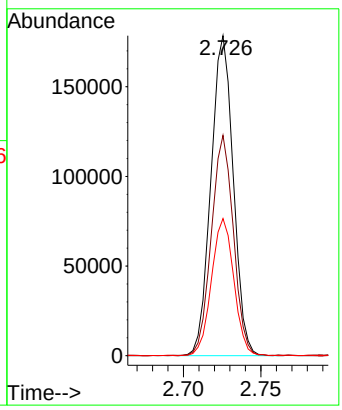




#31
cis-1,2-Dichloroethene
Concen: 9.107 ppbv
RT: 2.726 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 61 Resp: 17916

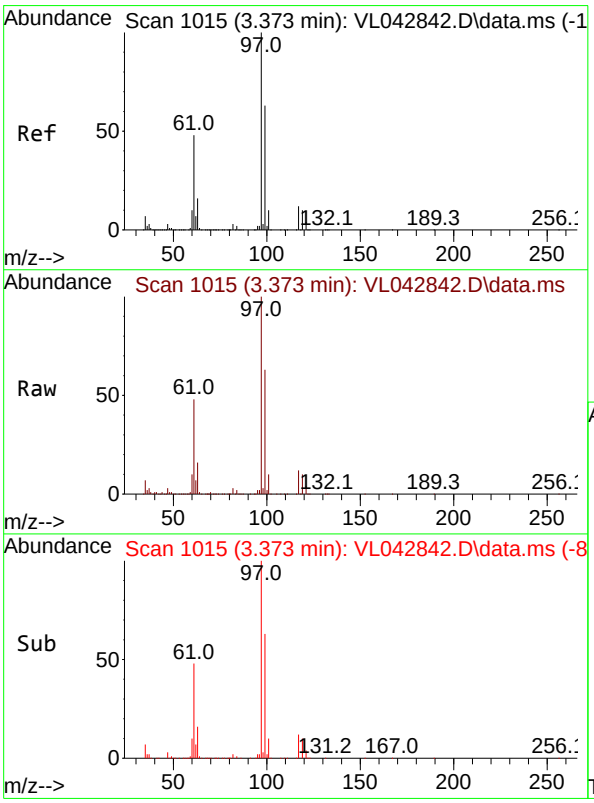
Ion	Ratio	Lower	Upper
61	100		
96	68.8	55.0	82.6
98	42.9	34.3	51.5



Instrument :
MSVOA_L
ClientSampleId :
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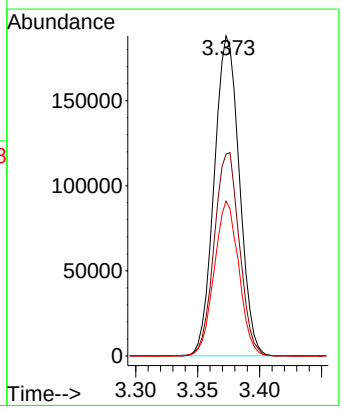
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

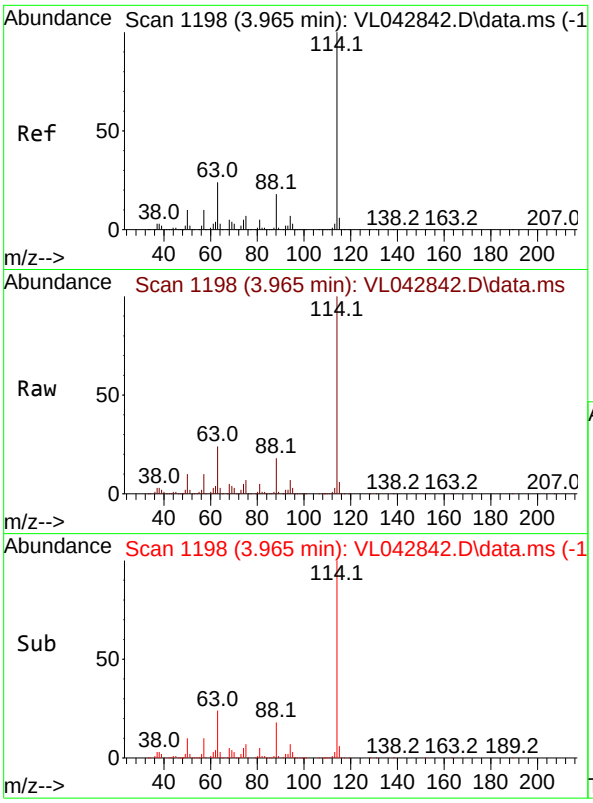


#32
1,1,1-Trichloroethane
Concen: 8.946 ppbv
RT: 3.373 min Scan# 1015
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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

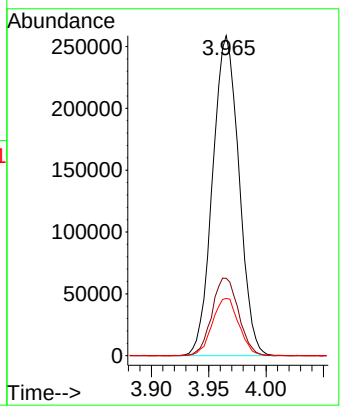




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion:114 Resp: 41363

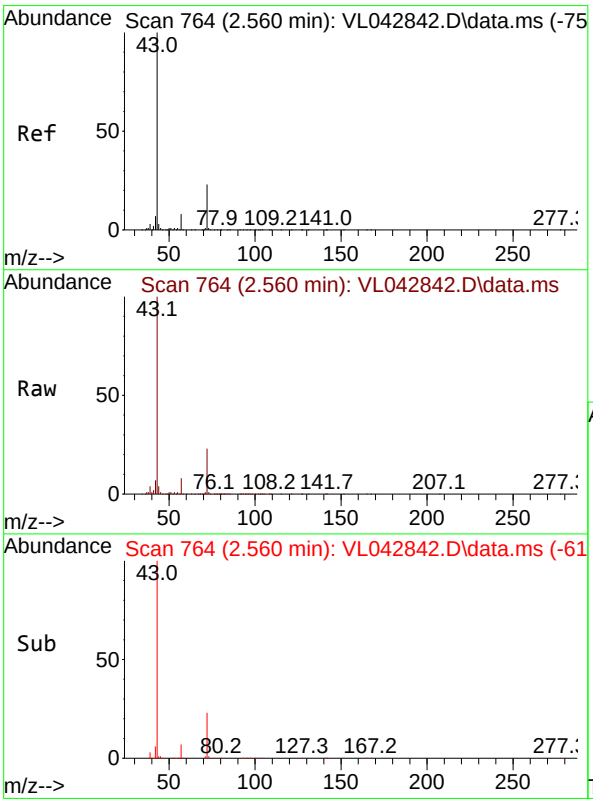
Ion	Ratio	Lower	Upper
114	100		
63	24.6	19.7	29.5
88	18.0	14.4	21.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED

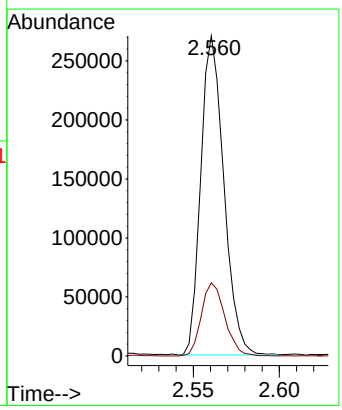
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

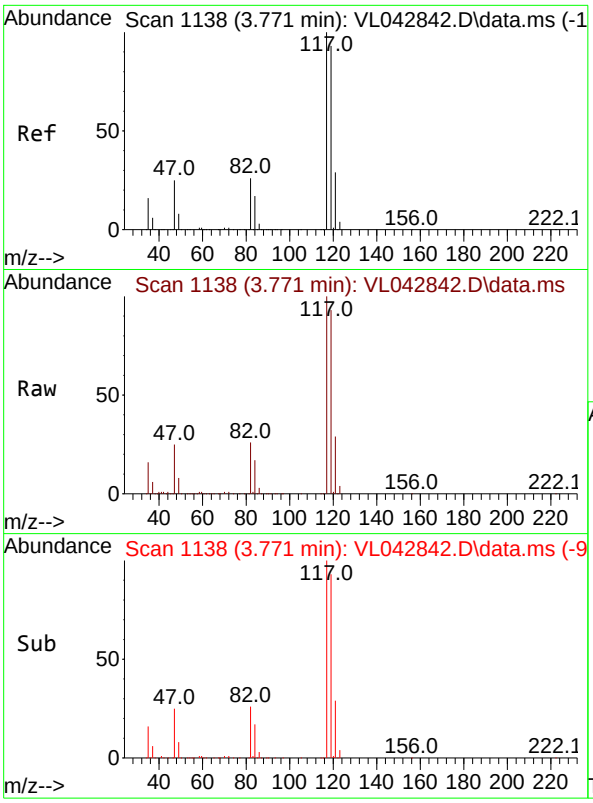


#34
2-Butanone
Concen: 9.033 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 43 Resp: 252300

Ion	Ratio	Lower	Upper
43	100		
72	23.3	18.6	28.0

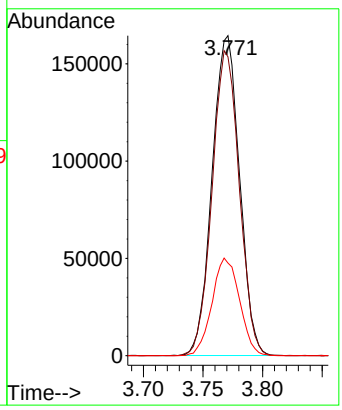




#35
Carbon Tetrachloride
Concen: 9.222 ppbv
RT: 3.771 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion:117 Resp: 26298

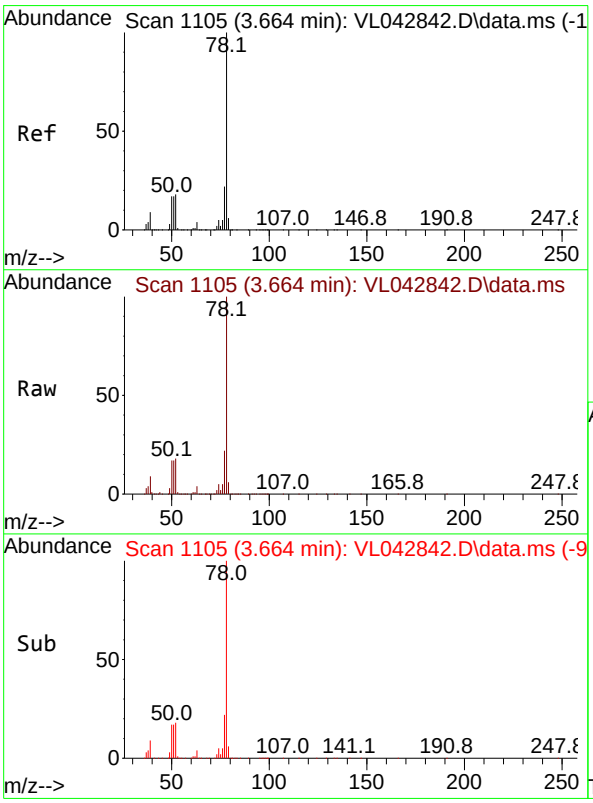
Ion	Ratio	Lower	Upper
117	100		
119	93.4	74.7	112.1
121	29.0	23.2	34.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

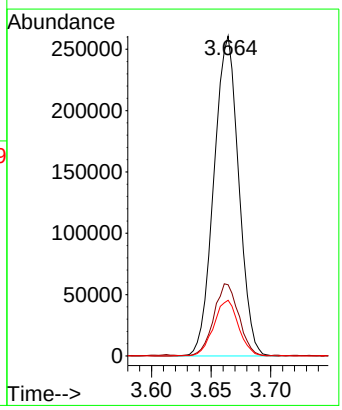
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

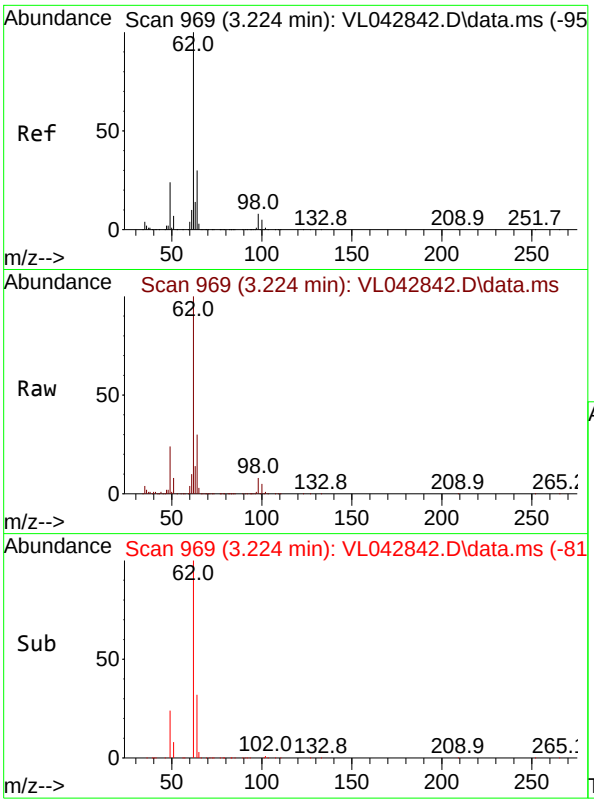


#36
Benzene
Concen: 9.521 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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

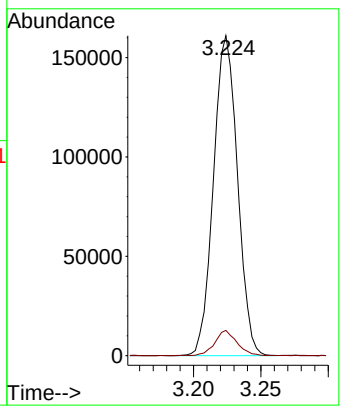




#37
1,2-Dichloroethane
Concen: 9.653 ppbv
RT: 3.224 min Scan# 9
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 62 Resp: 19976

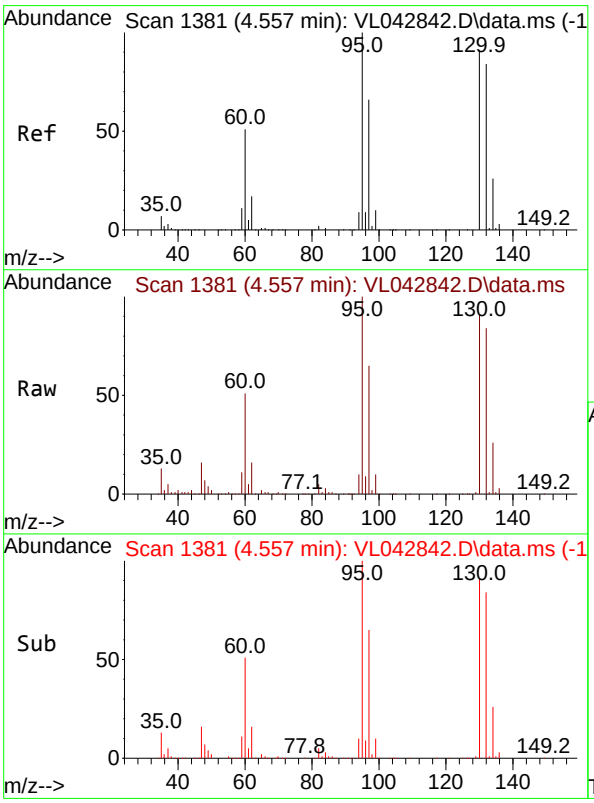
Ion	Ratio	Lower	Upper
62	100		
98	7.4	5.9	8.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

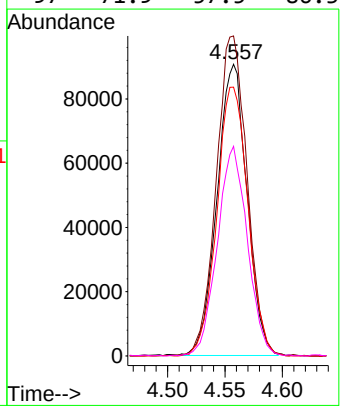
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

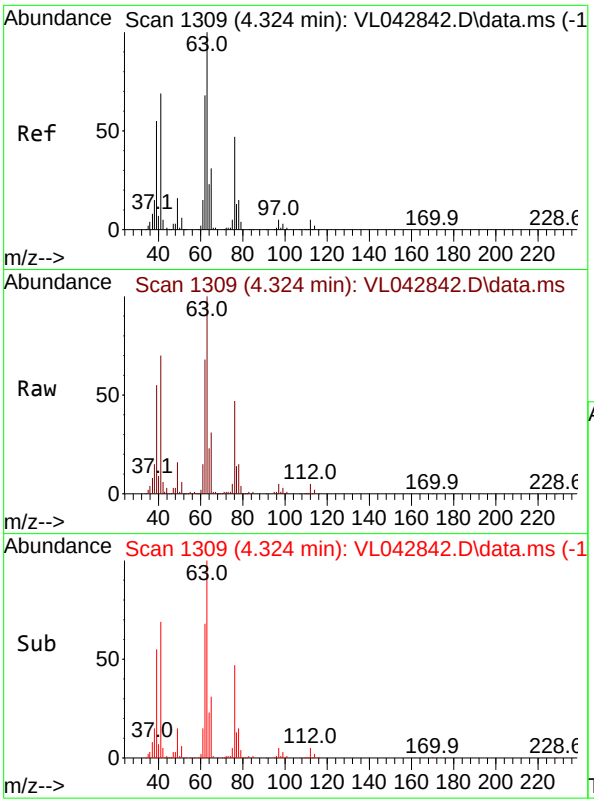


#38
Trichloroethene
Concen: 9.115 ppbv
RT: 4.557 min Scan# 1381
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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

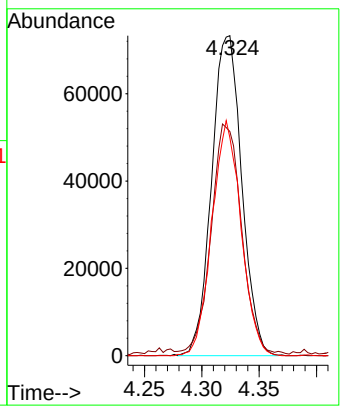




#39
1,2-Dichloropropane
Concen: 9.263 ppbv
RT: 4.324 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 63 Resp: 13399

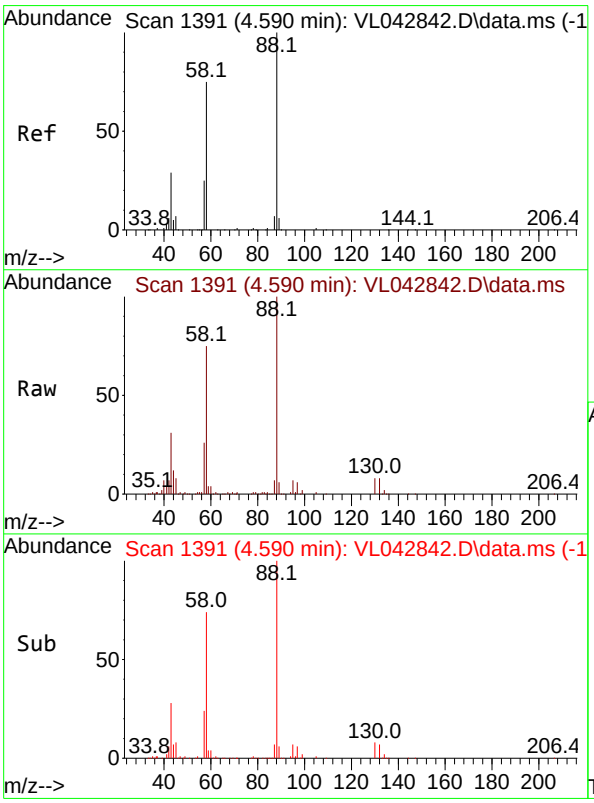
Ion	Ratio	Lower	Upper
63	100		
41	68.7	55.0	82.4
62	68.0	54.4	81.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

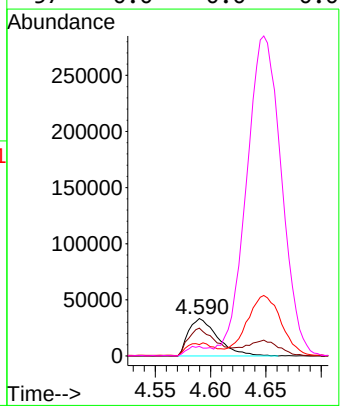
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

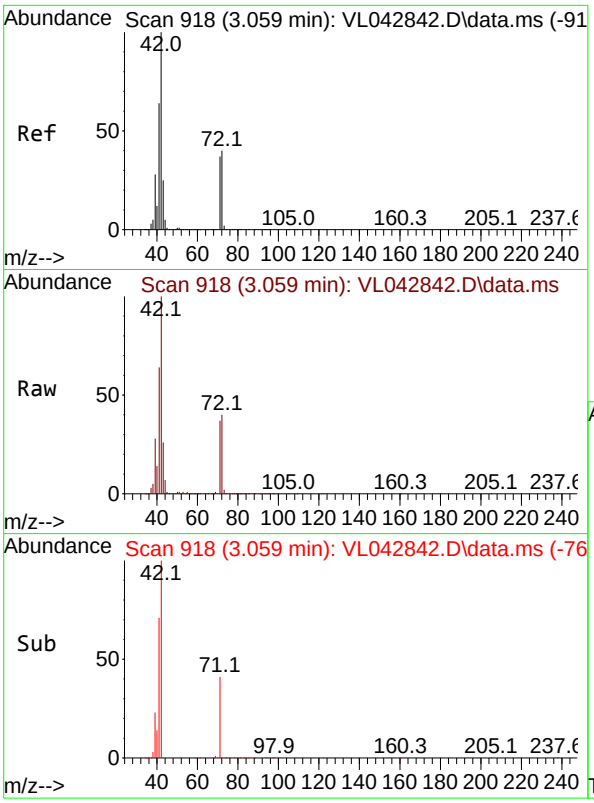


#40
1,4-Dioxane
Concen: 9.064 ppbv
RT: 4.590 min Scan# 1391
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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

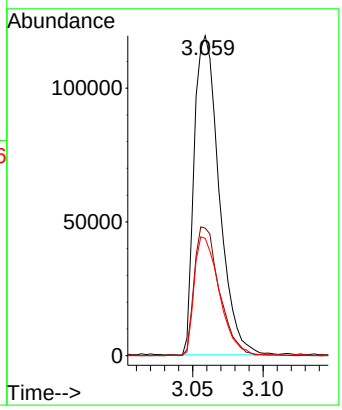




#41
Tetrahydrofuran
Concen: 9.442 ppbv
RT: 3.059 min Scan# 9
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 42 Resp: 14702

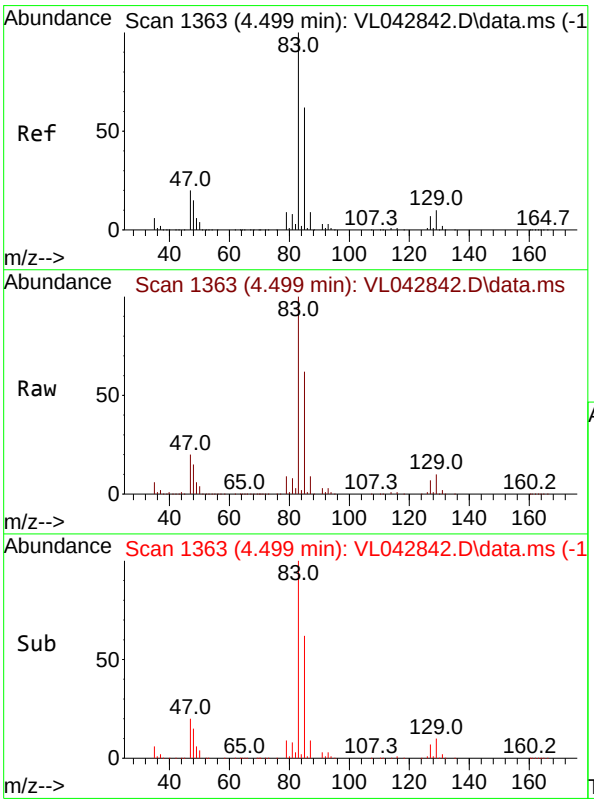
Ion	Ratio	Lower	Upper
42	100		
72	40.7	32.6	48.8
71	37.5	30.0	45.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

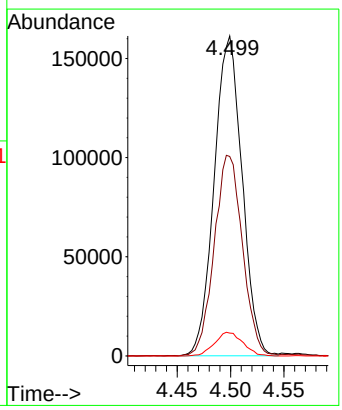
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

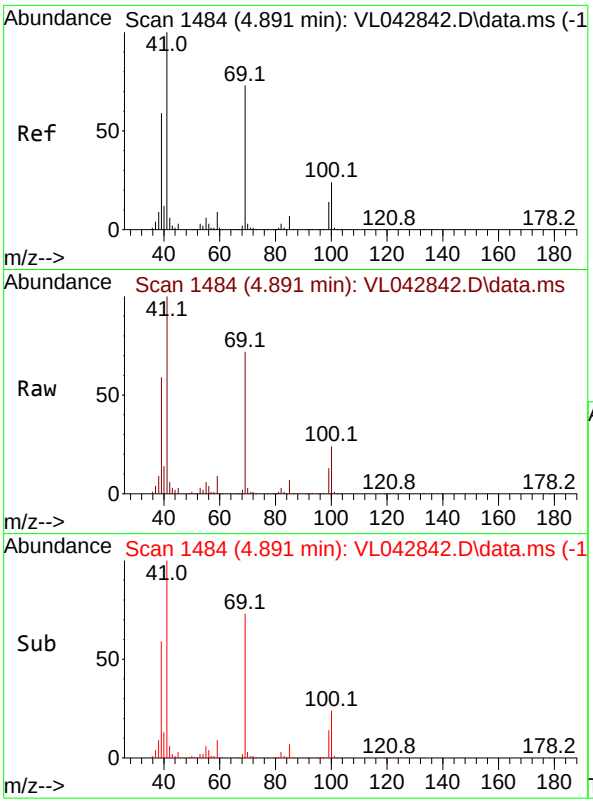


#42
Bromodichloromethane
Concen: 9.499 ppbv
RT: 4.499 min Scan# 1363
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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

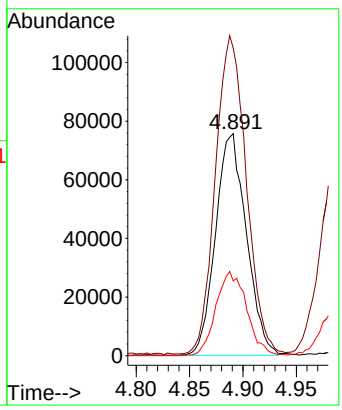




#43
Methyl Methacrylate
Concen: 9.357 ppbv
RT: 4.891 min Scan# 14
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 69 Resp: 15203

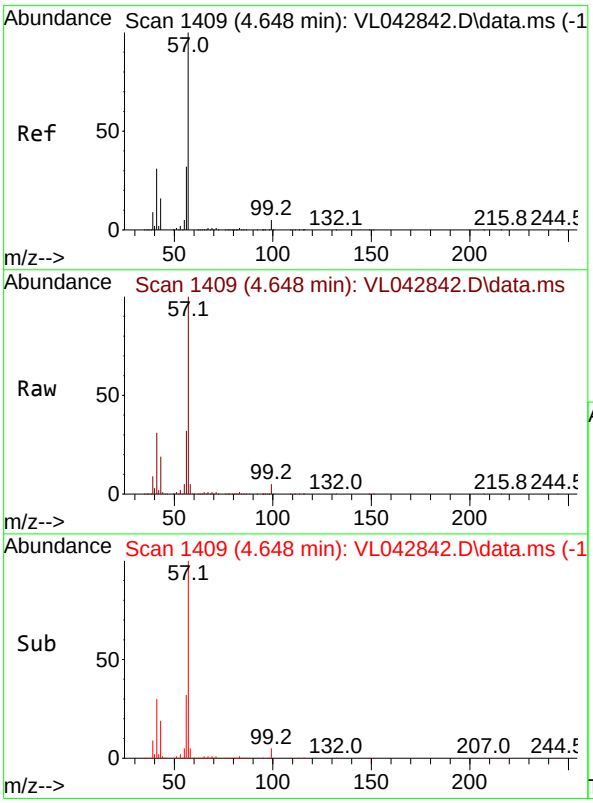
Ion	Ratio	Lower	Upper
69	100		
41	143.3	114.6	172.0
100	37.8	30.2	45.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

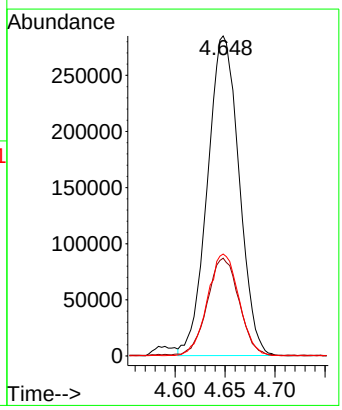
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

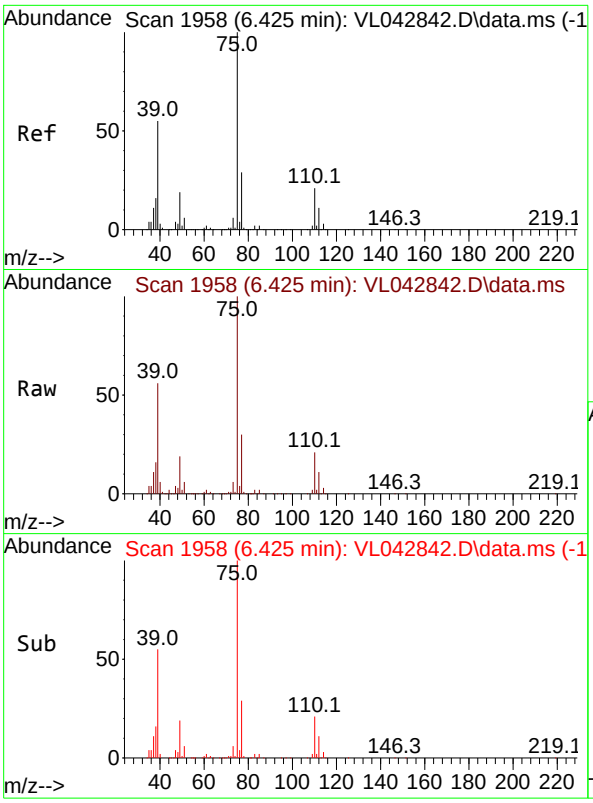


#44
2,2,4-Trimethylpentane
Concen: 9.420 ppbv
RT: 4.648 min Scan# 1409
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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

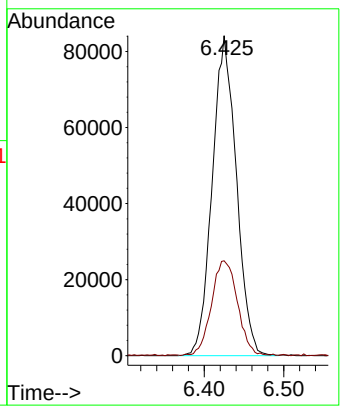




#45
t-1,3-Dichloropropene
Concen: 9.616 ppbv
RT: 6.425 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 75 Resp: 17720

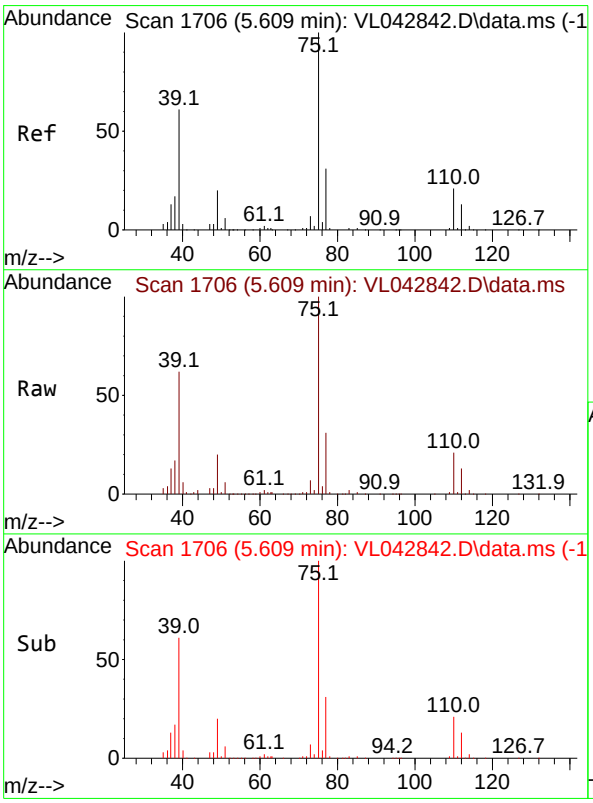
Ion	Ratio	Lower	Upper
75	100		
77	29.7	23.8	35.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

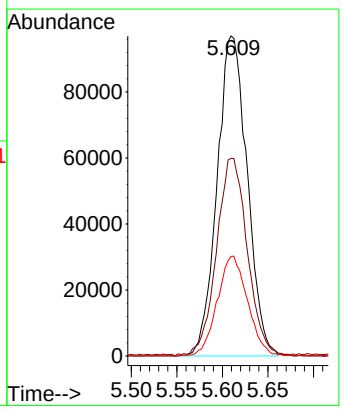
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

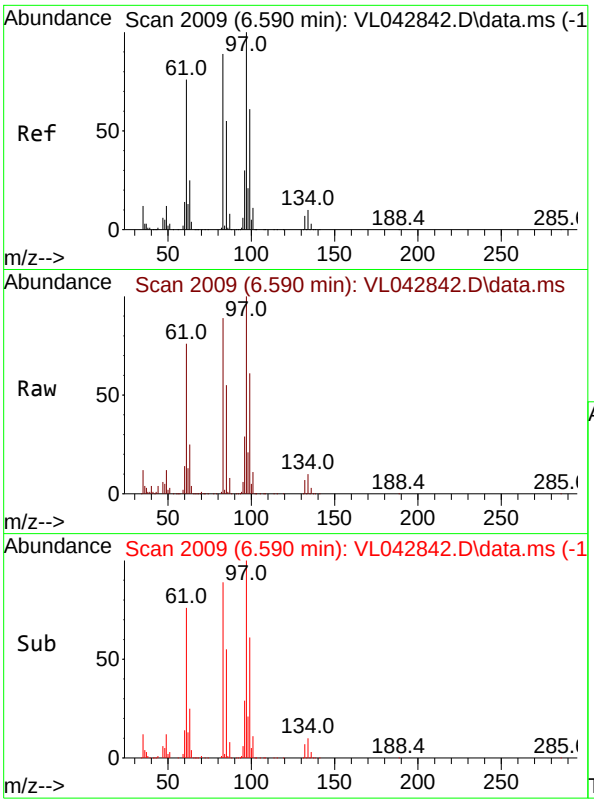


#46
cis-1,3-Dichloropropene
Concen: 9.635 ppbv
RT: 5.609 min Scan# 1706
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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

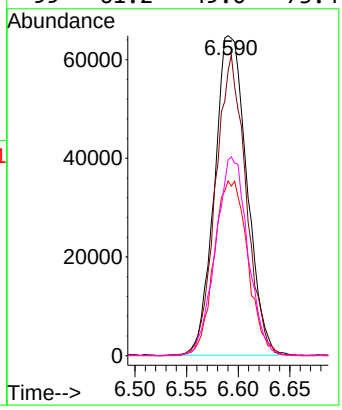




#47
1,1,2-Trichloroethane
Concen: 9.215 ppbv
RT: 6.590 min Scan# 2(
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 97 Resp: 14110

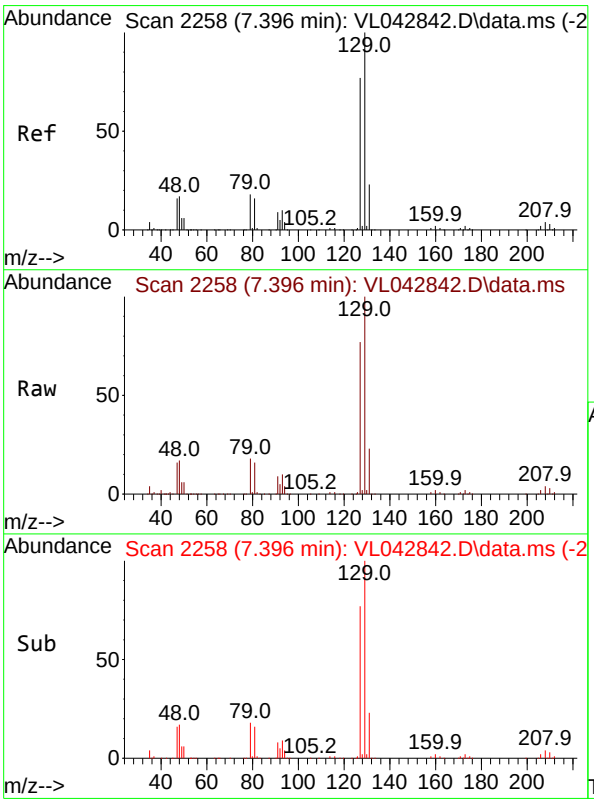
Ion	Ratio	Lower	Upper
97	100		
83	88.7	71.0	106.4
85	54.5	43.6	65.4
99	61.2	49.0	73.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

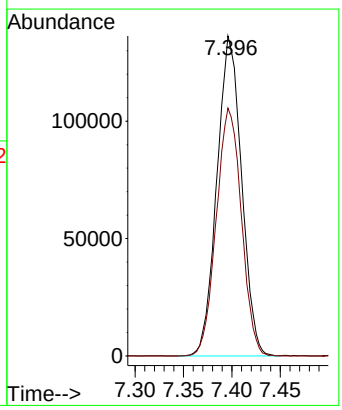
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

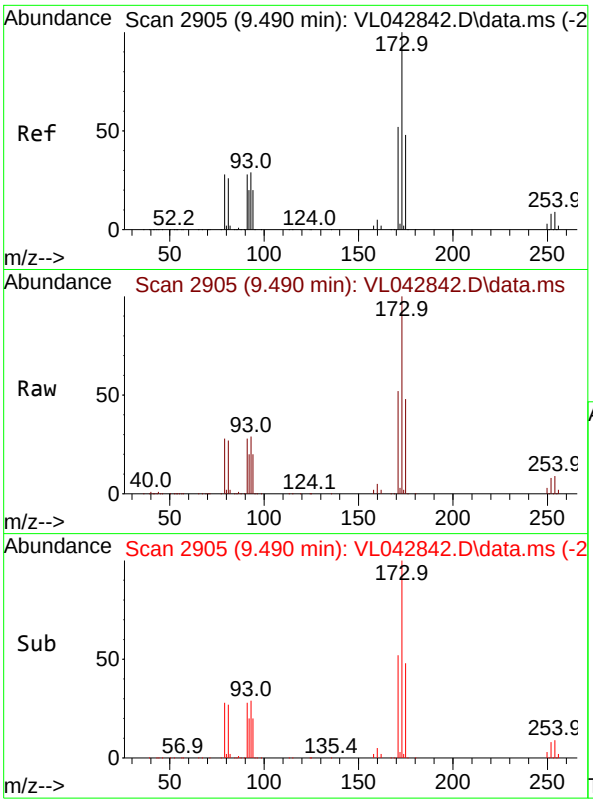


#48
Dibromochloromethane
Concen: 9.739 ppbv
RT: 7.396 min Scan# 2258
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion:129 Resp: 241553

Ion	Ratio	Lower	Upper
129	100		
127	78.8	39.4	118.2

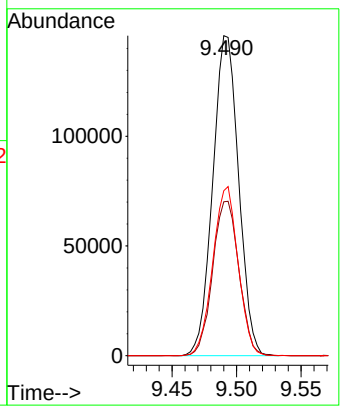




#49
Bromoform
Concen: 9.923 ppbv
RT: 9.490 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion:173 Resp: 20297

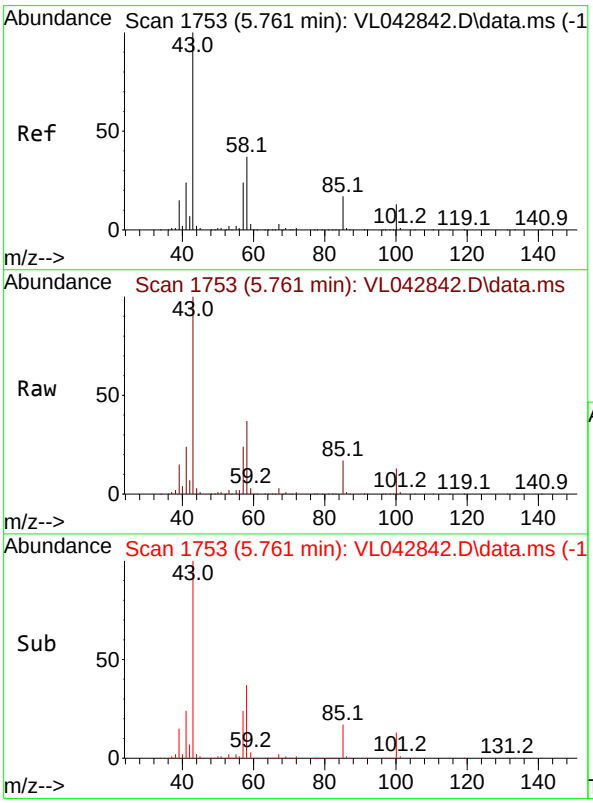
Ion	Ratio	Lower	Upper
173	100		
175	49.0	39.2	58.8
171	51.6	41.3	61.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

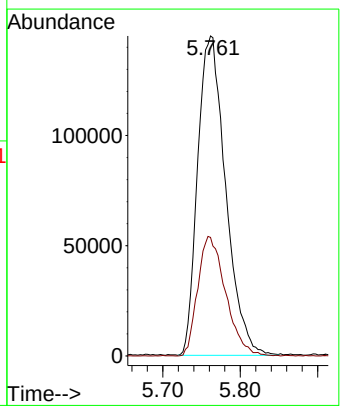
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

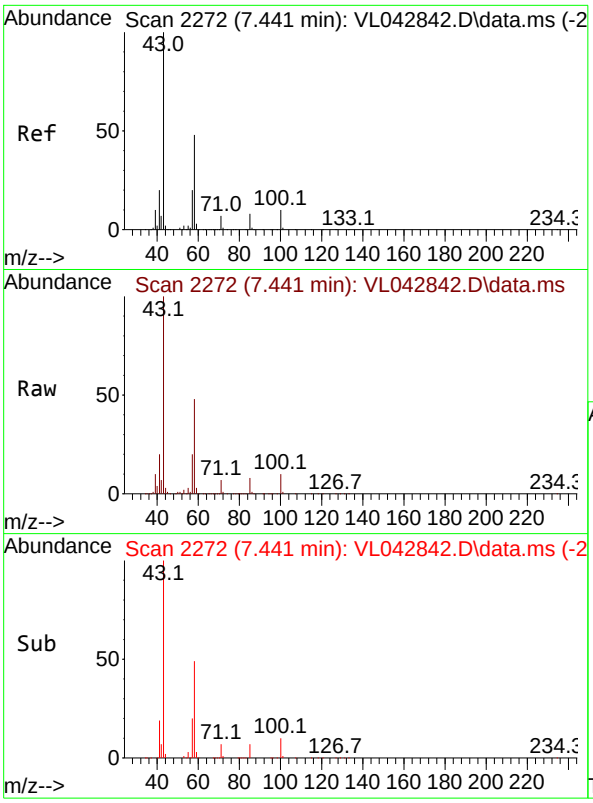


#50
4-Methyl-2-Pentanone
Concen: 9.616 ppbv
RT: 5.761 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 43 Resp: 364306

Ion	Ratio	Lower	Upper
43	100		
58	37.3	29.8	44.8

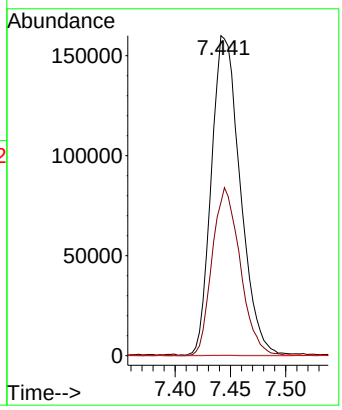




#51
2-Hexanone
Concen: 9.730 ppbv
RT: 7.441 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 43 Resp: 28905

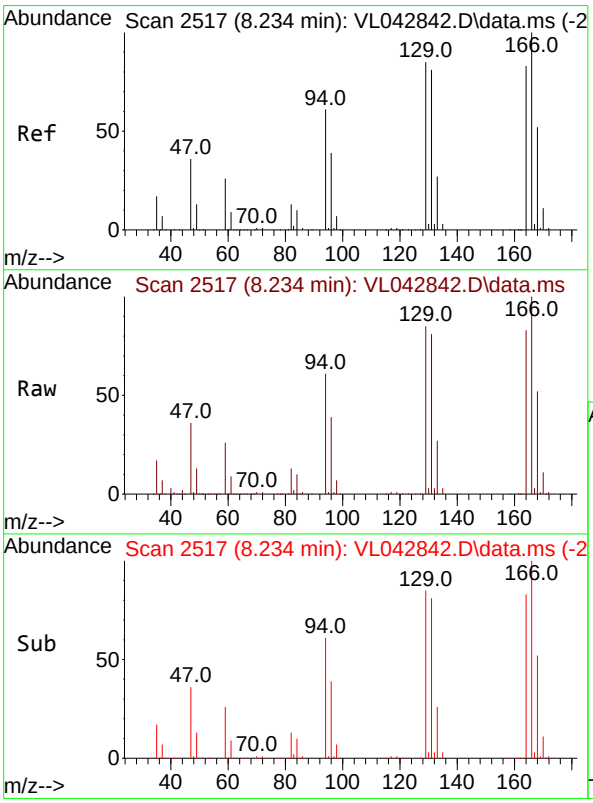
Ion	Ratio	Lower	Upper
43	100		
58	51.3	41.0	61.6
98	0.1	0.1	0.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

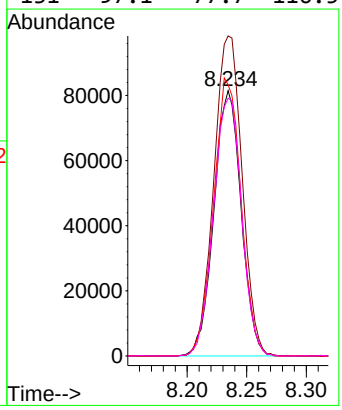
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

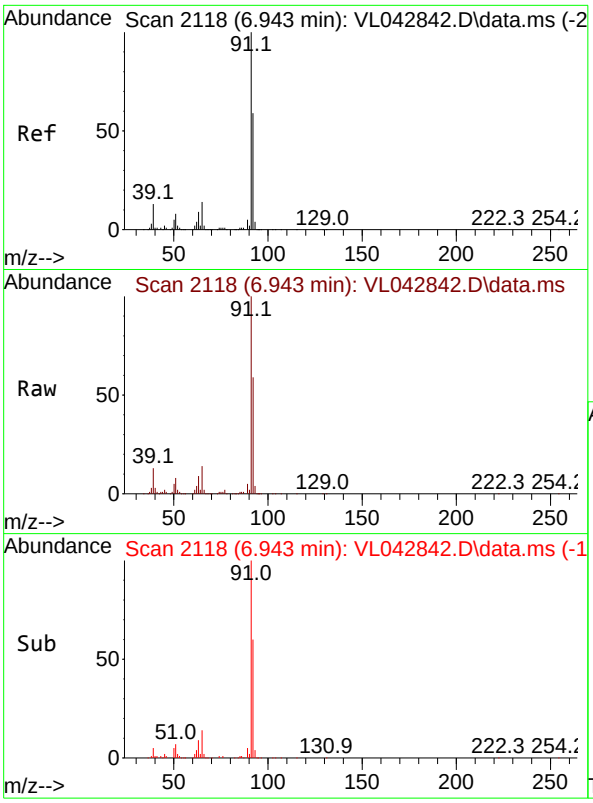


#52
Tetrachloroethene
Concen: 9.026 ppbv
RT: 8.234 min Scan# 2517
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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

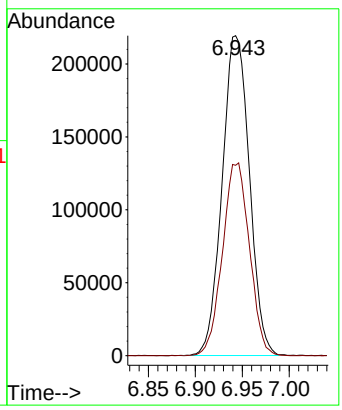




#53
Toluene
Concen: 9.407 ppbv
RT: 6.943 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 91 Resp: 44340

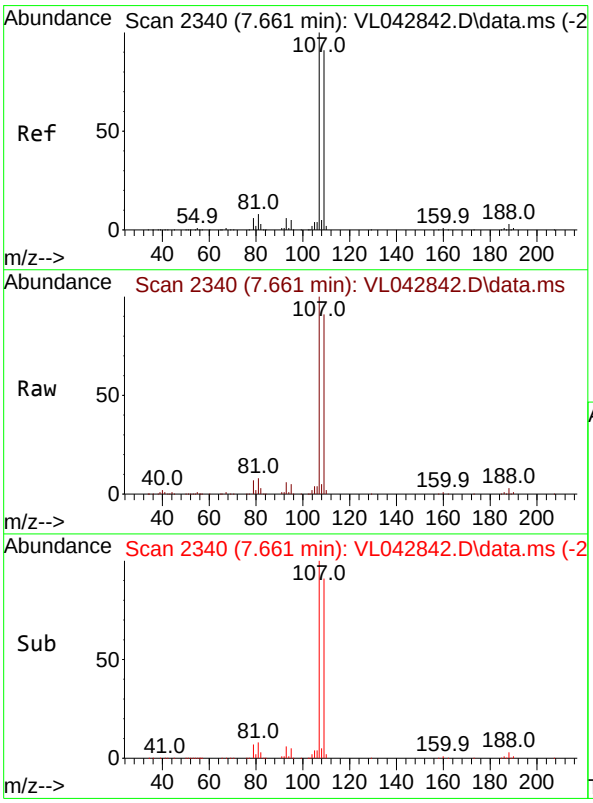
Ion	Ratio	Lower	Upper
91	100		
92	59.7	47.8	71.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

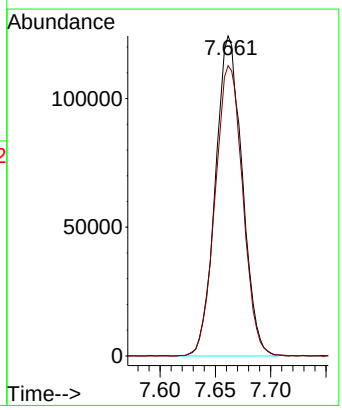
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

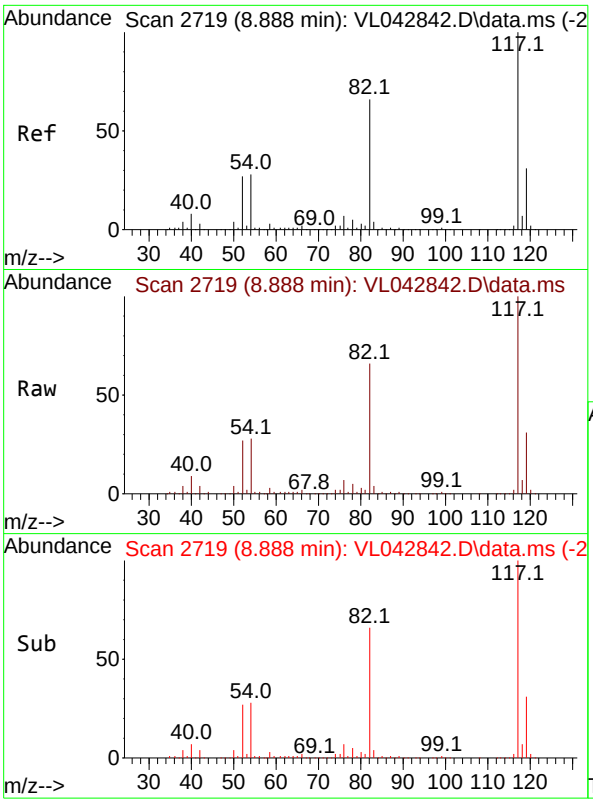


#54
1,2-Dibromoethane
Concen: 9.345 ppbv
RT: 7.661 min Scan# 2340
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion:107 Resp: 209330

Ion	Ratio	Lower	Upper
107	100		
109	90.6	72.5	108.7

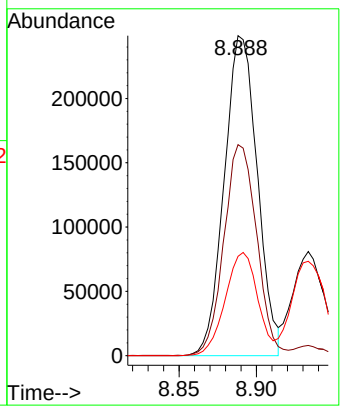




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion:117 Resp: 37037

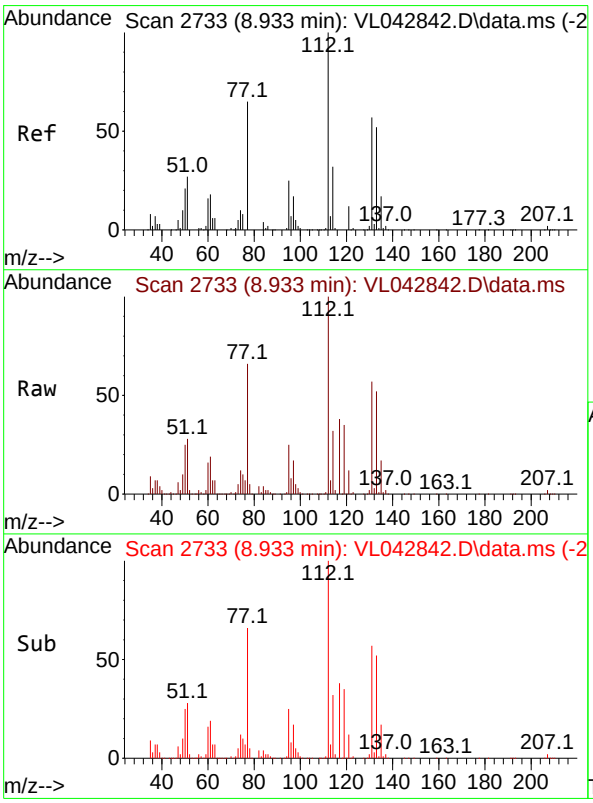
Ion	Ratio	Lower	Upper
117	100		
82	68.2	54.6	81.8
119	32.4	25.9	38.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

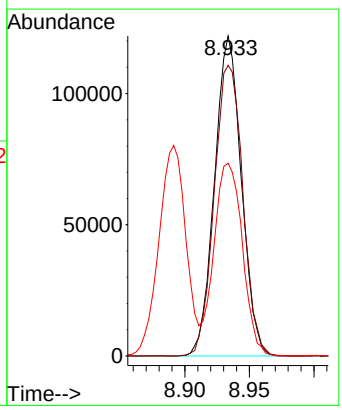
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

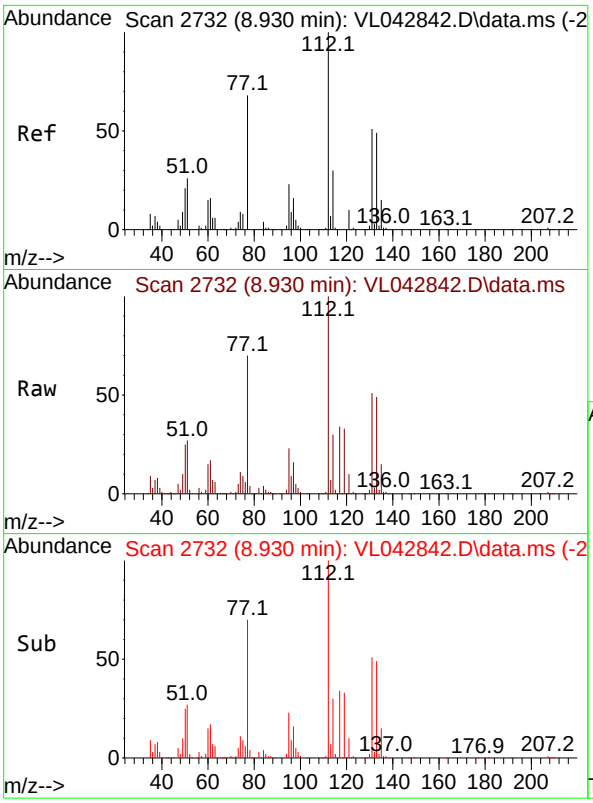


#56
1,1,1,2-Tetrachloroethane
Concen: 9.196 ppbv
RT: 8.933 min Scan# 2733
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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

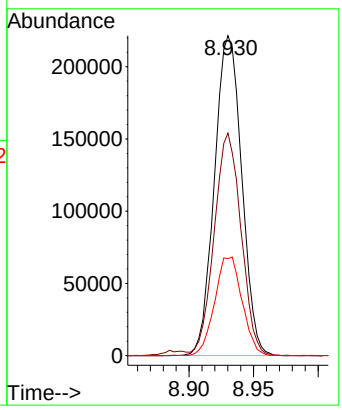




#57
Chlorobenzene
Concen: 9.237 ppbv
RT: 8.930 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion:112 Resp: 32530

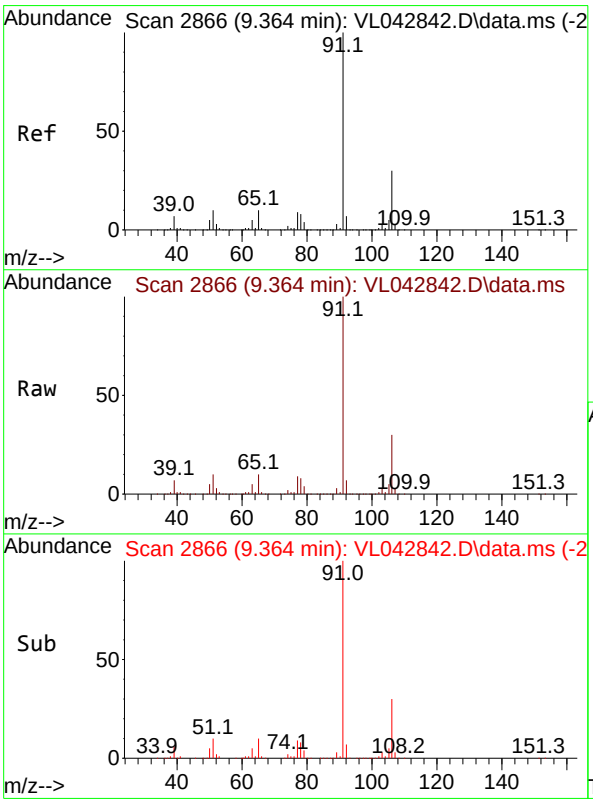
Ion	Ratio	Lower	Upper
112	100		
77	69.4	55.5	83.3
114	30.2	27.2	33.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

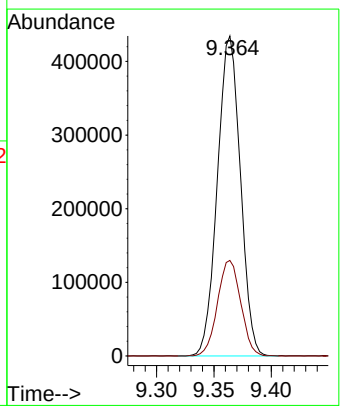
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

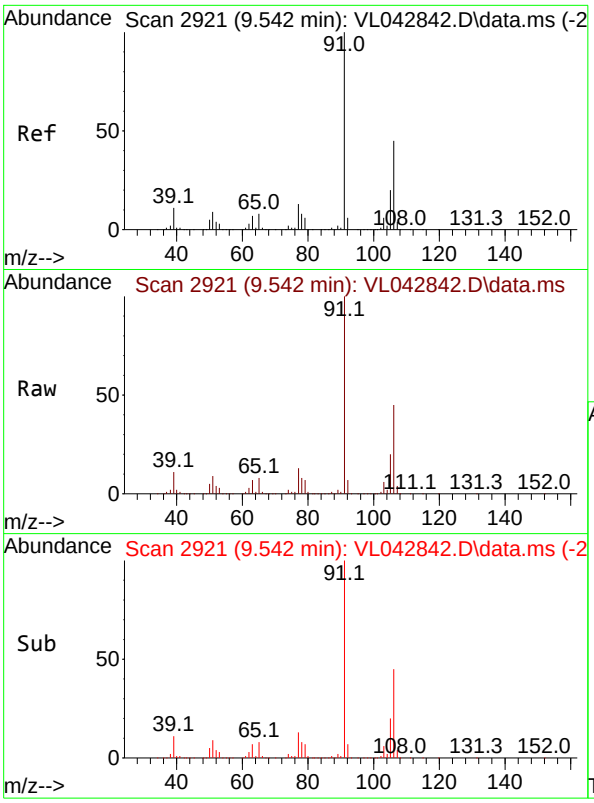


#58
Ethyl Benzene
Concen: 9.268 ppbv
RT: 9.364 min Scan# 2866
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 91 Resp: 605785

Ion	Ratio	Lower	Upper
91	100		
106	29.9	23.9	35.9

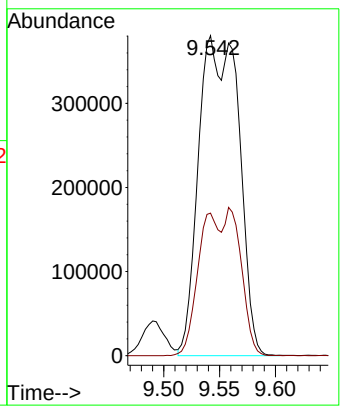




#59
m/p-Xylene
Concen: 18.524 ppbv m
RT: 9.542 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 91 Resp: 95054

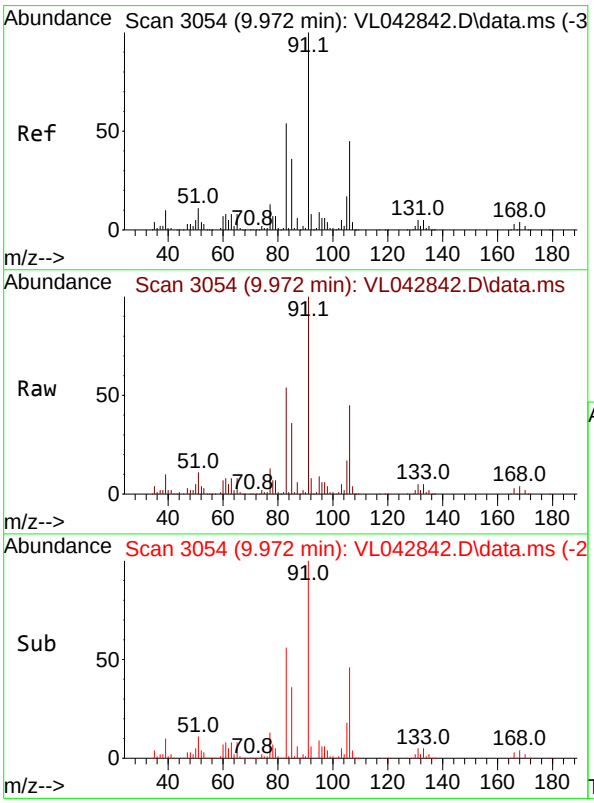
Ion	Ratio	Lower	Upper
91	100		
106	0.0	0.0	0.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

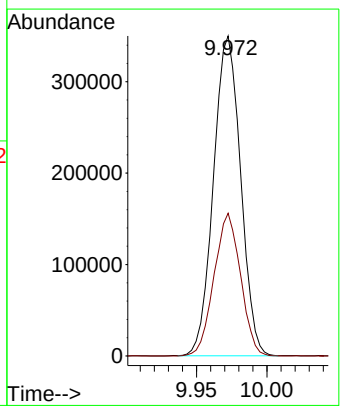
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

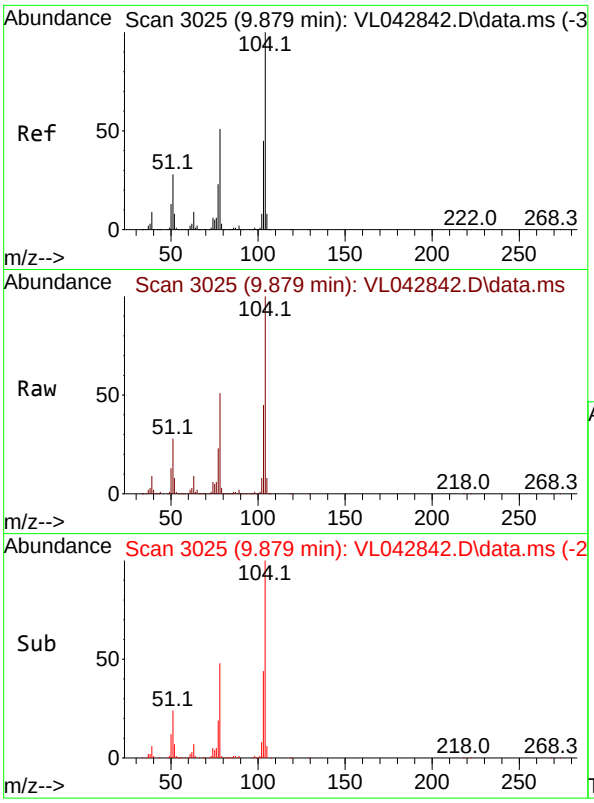


#60
o-Xylene
Concen: 9.102 ppbv
RT: 9.972 min Scan# 3054
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 91 Resp: 469073

Ion	Ratio	Lower	Upper
91	100		
106	43.6	21.8	65.4

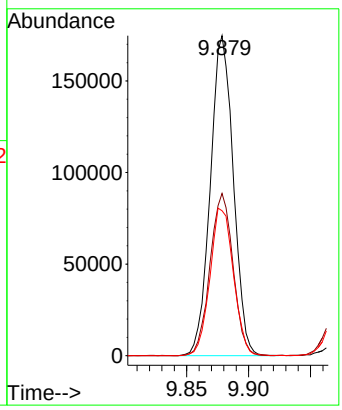




#61
Styrene
Concen: 9.362 ppbv
RT: 9.879 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion:104 Resp: 22605

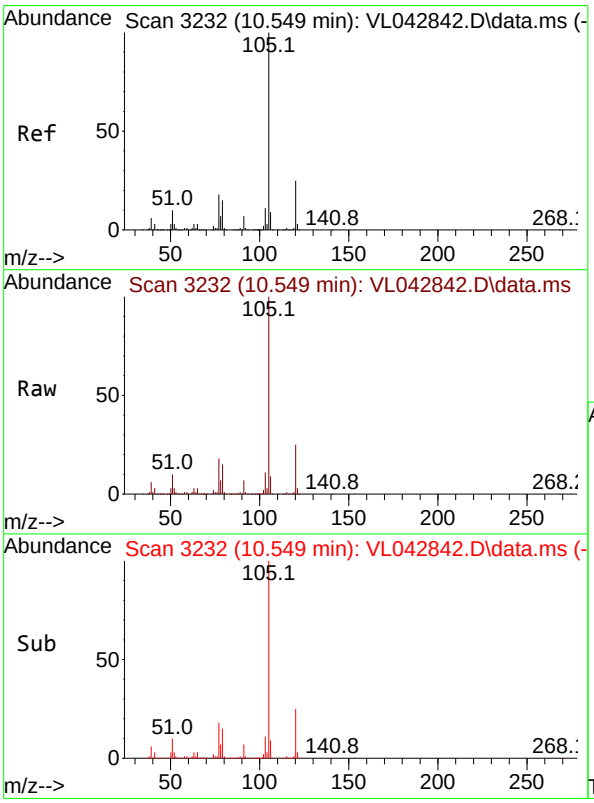
Ion	Ratio	Lower	Upper
104	100		
78	50.8	40.6	61.0
103	47.1	37.7	56.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

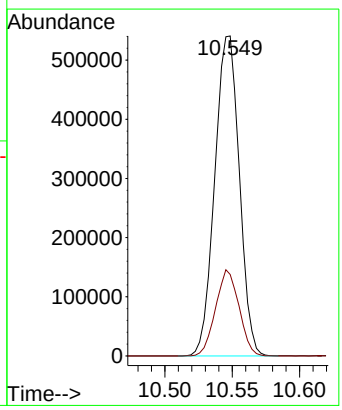
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

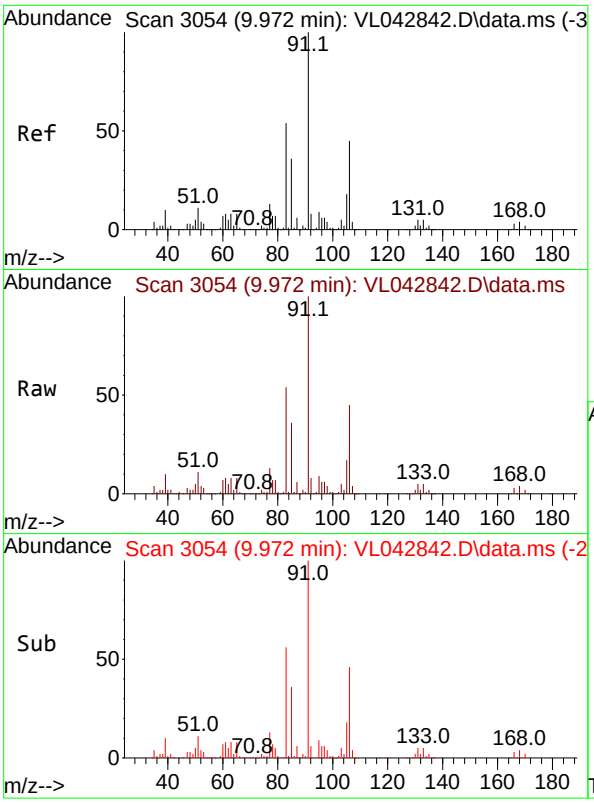


#62
Isopropylbenzene
Concen: 9.108 ppbv
RT: 10.549 min Scan# 3232
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion:105 Resp: 685983

Ion	Ratio	Lower	Upper
105	100		
120	25.7	20.6	30.8

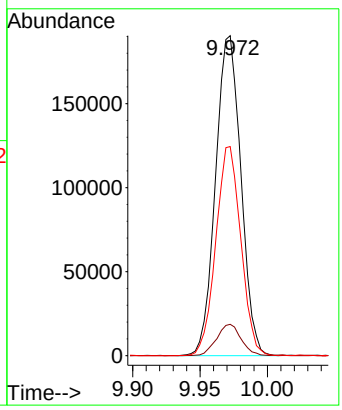




#63
1,1,2,2-Tetrachloroethane
Concen: 8.870 ppbv
RT: 9.972 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 83 Resp: 24962

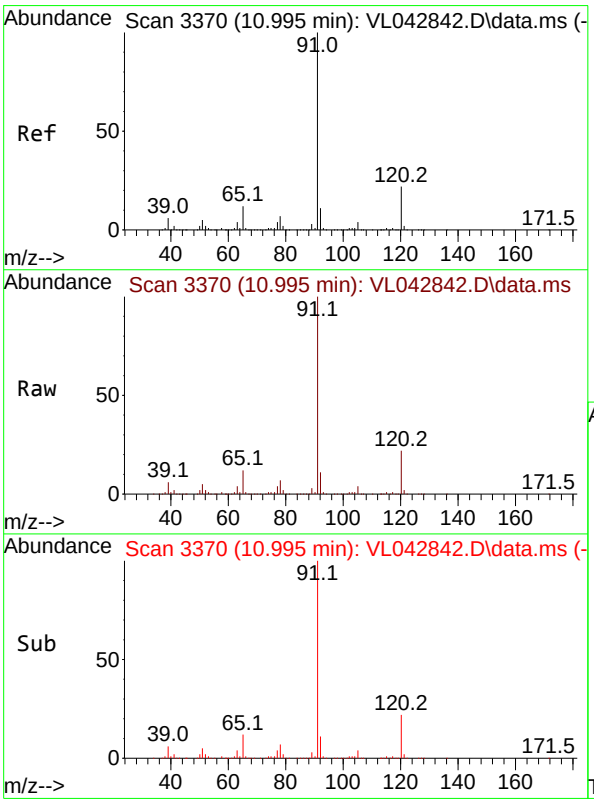
Ion	Ratio	Lower	Upper
83	100		
131	9.5	4.8	14.3
85	64.5	32.3	96.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

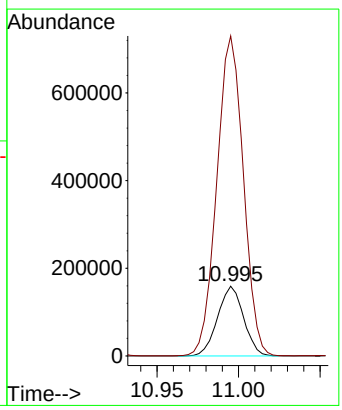
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

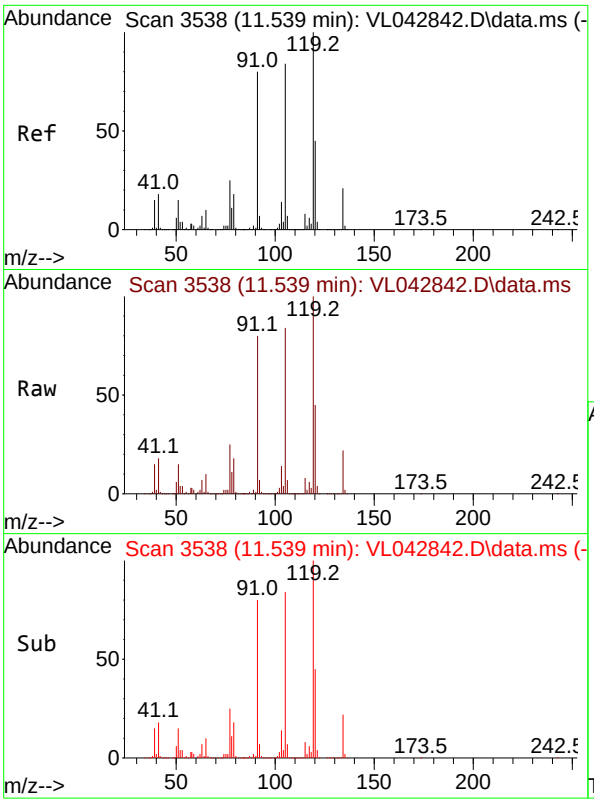


#64
n-propylbenzene
Concen: 9.158 ppbv
RT: 10.995 min Scan# 3370
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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# 3
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

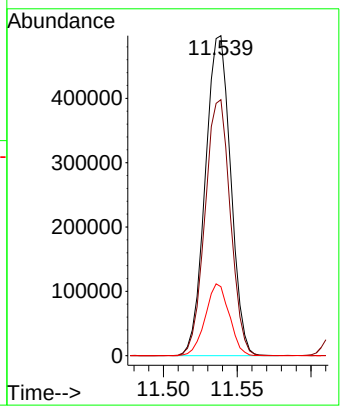
Tgt Ion:119 Resp: 59431

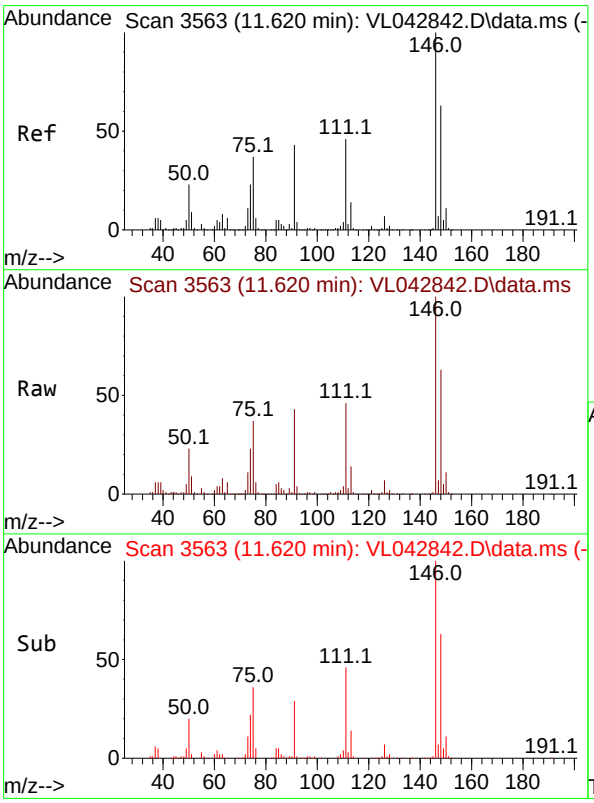
Ion	Ratio	Lower	Upper
119	100		
91	79.9	63.9	95.9
134	21.2	17.0	25.4

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

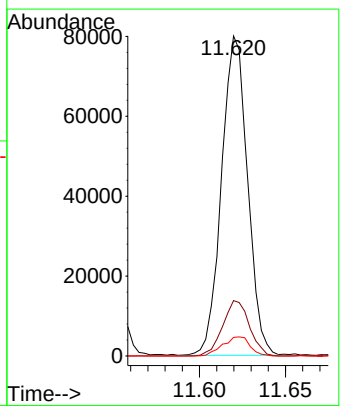


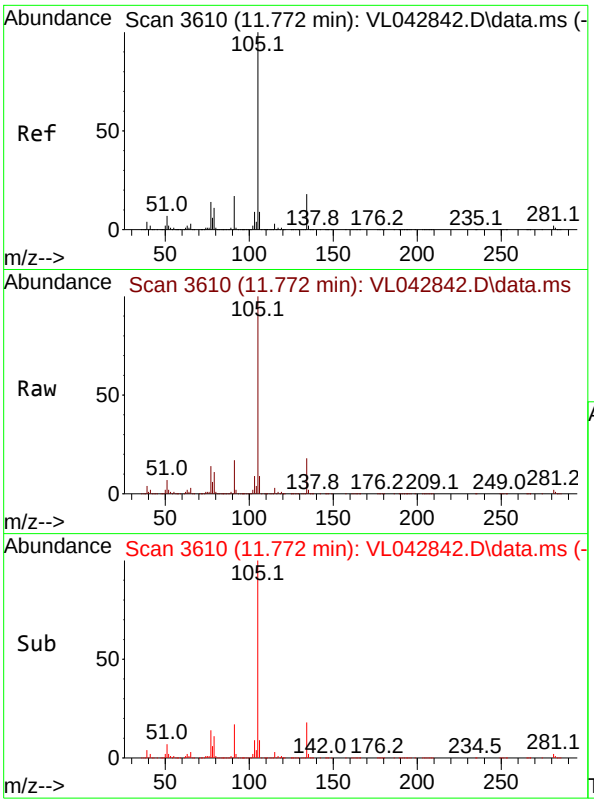


#66
Benzyl Chloride
Concen: 9.985 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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

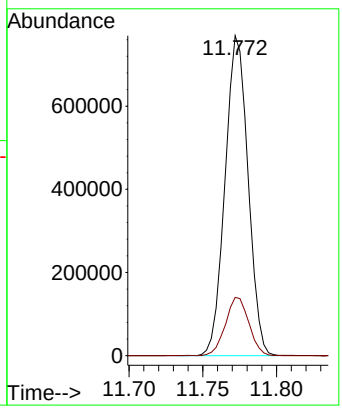




#67
sec-Butylbenzene
Concen: 8.943 ppbv
RT: 11.772 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion:105 Resp: 83337

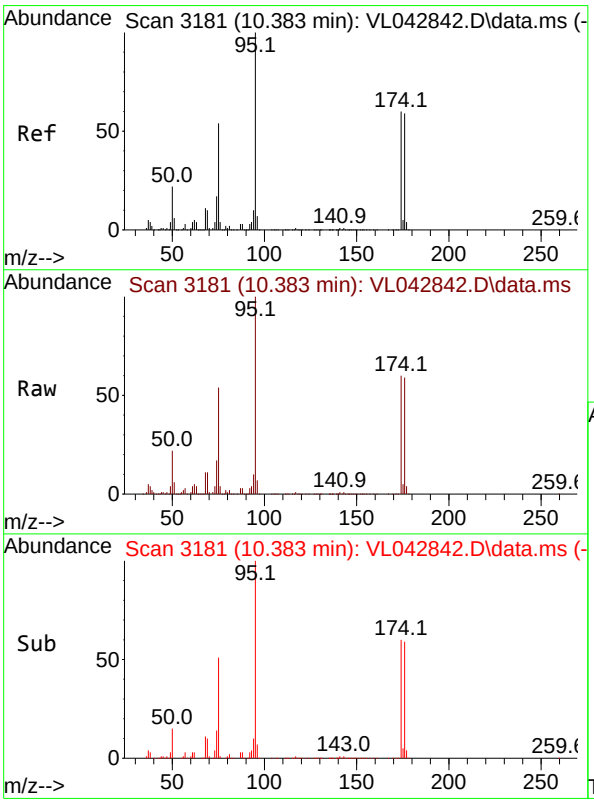
Ion	Ratio	Lower	Upper
105	100		
134	18.6	14.9	22.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

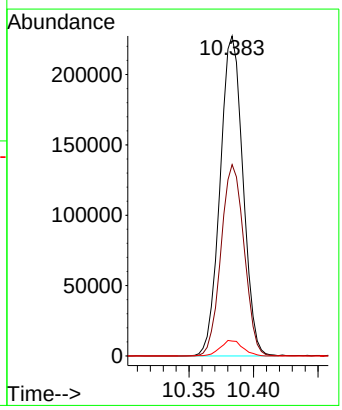
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

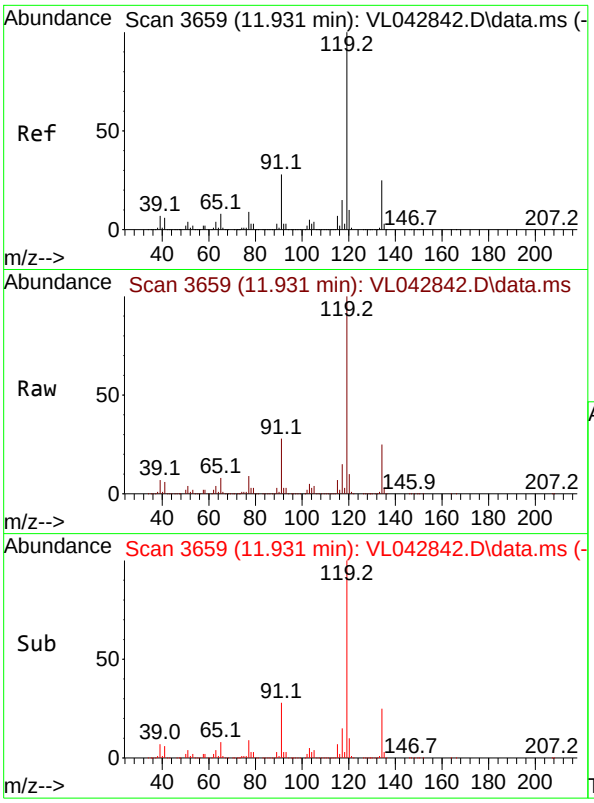


#68
1-Bromo-4-Fluorobenzene
Concen: 10.064 ppbv
RT: 10.383 min Scan# 3181
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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

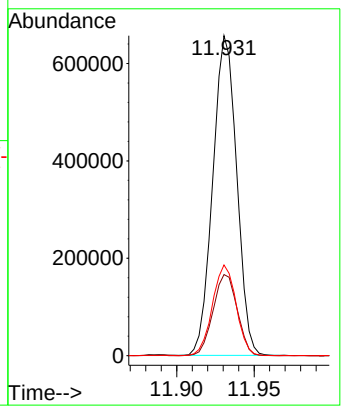




#69
p-Isopropyltoluene
Concen: 8.820 ppbv
RT: 11.931 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion:119 Resp: 70570

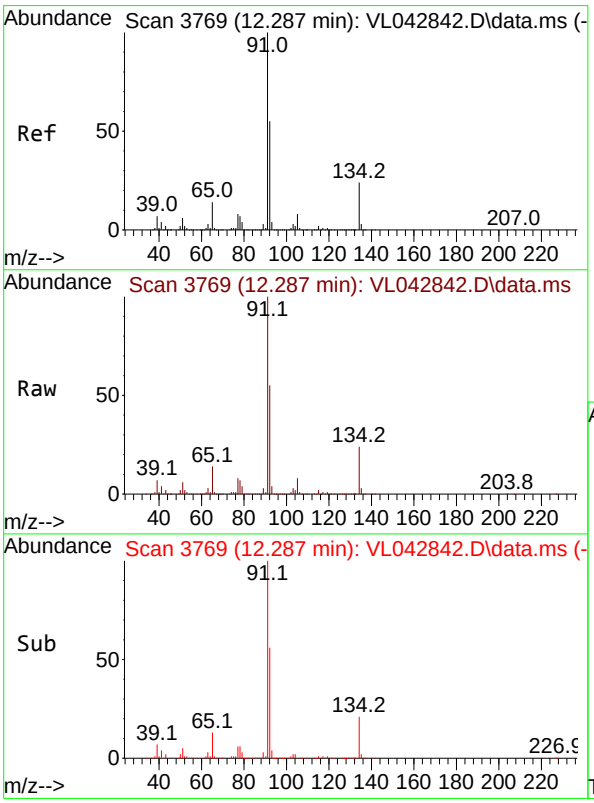
Ion	Ratio	Lower	Upper
119	100		
134	25.7	20.6	30.8
91	28.3	22.6	34.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

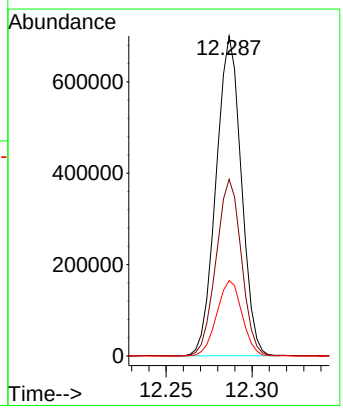
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

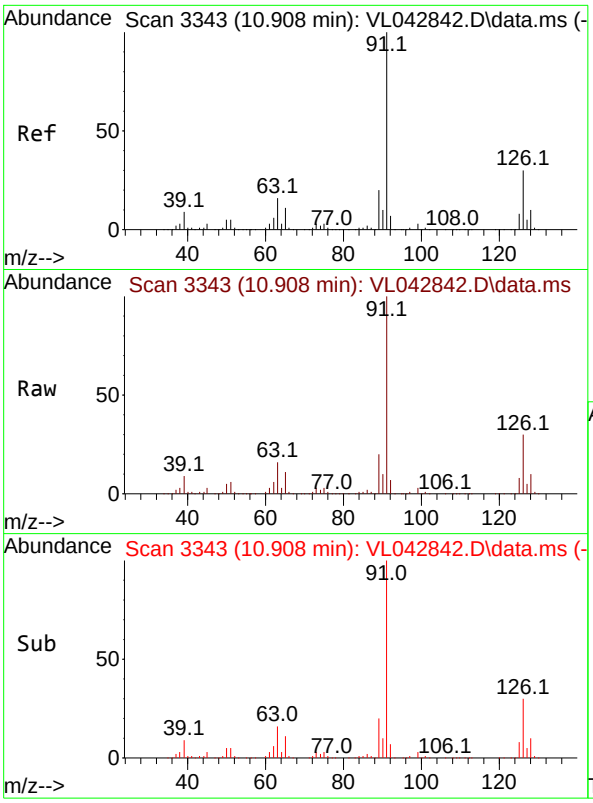


#70
n-Butylbenzene
Concen: 8.995 ppbv
RT: 12.287 min Scan# 3769
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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

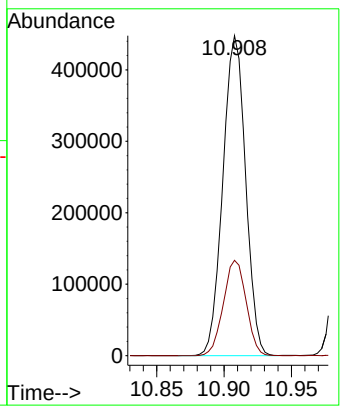




#71
2-Chlorotoluene
Concen: 8.981 ppbv
RT: 10.908 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 91 Resp: 52523

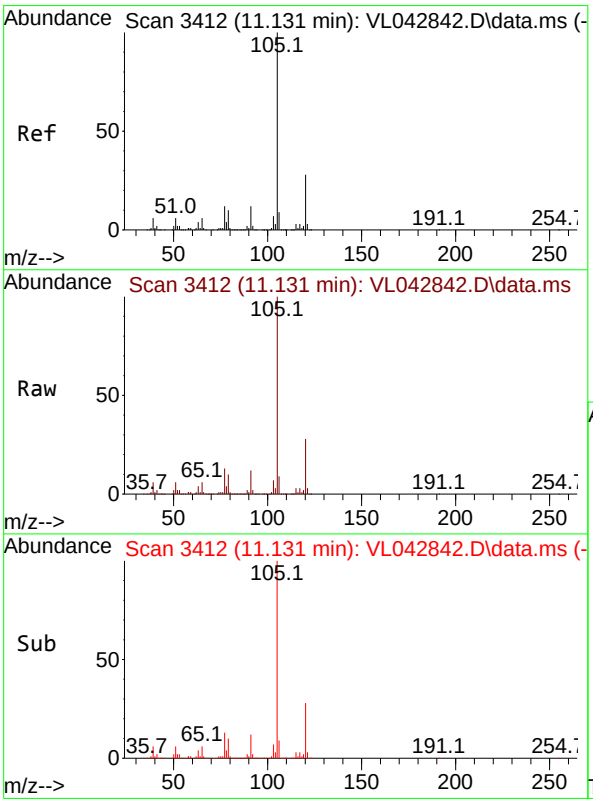
Ion	Ratio	Lower	Upper
91	100		
126	29.9	12.0	47.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

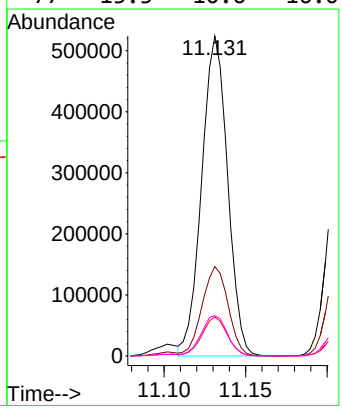
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

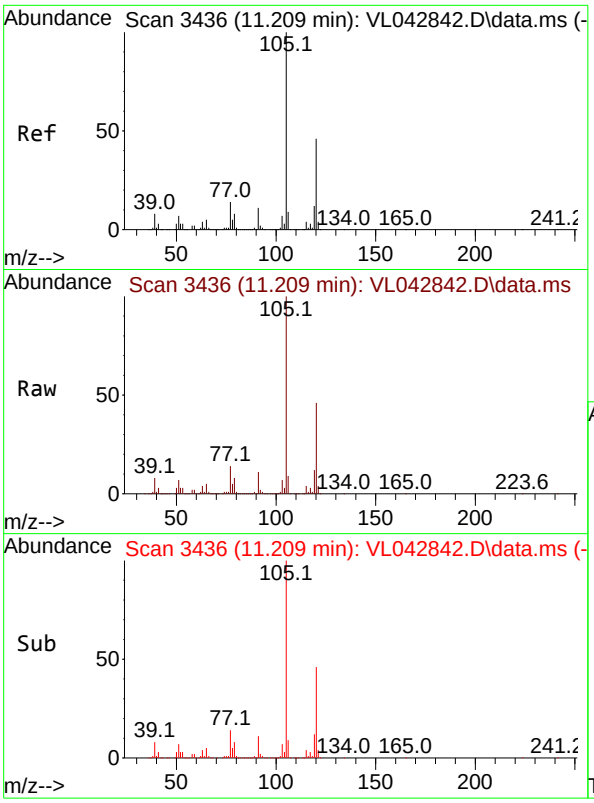


#72
4-Ethyltoluene
Concen: 9.267 ppbv
RT: 11.131 min Scan# 3412
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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

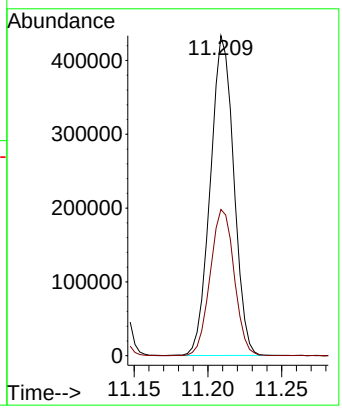




#73
1,3,5-Trimethylbenzene
Concen: 9.012 ppbv
RT: 11.209 min Scan# 34
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion:105 Resp: 47878

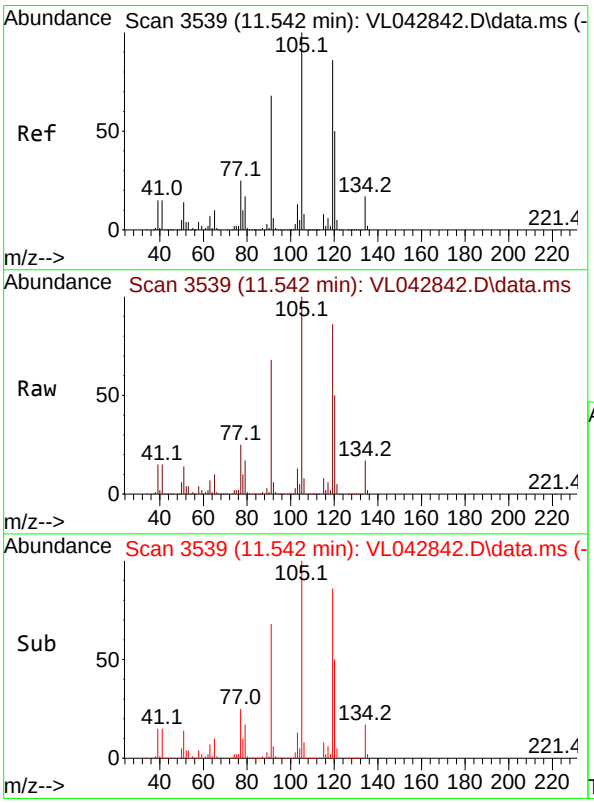
Ion	Ratio	Lower	Upper
105	100		
120	45.7	36.6	54.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

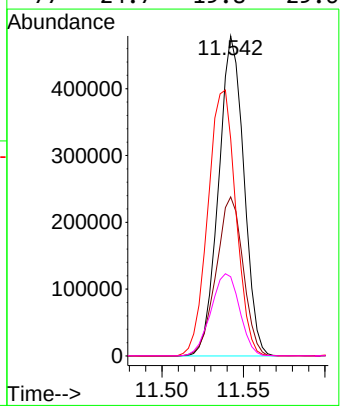
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

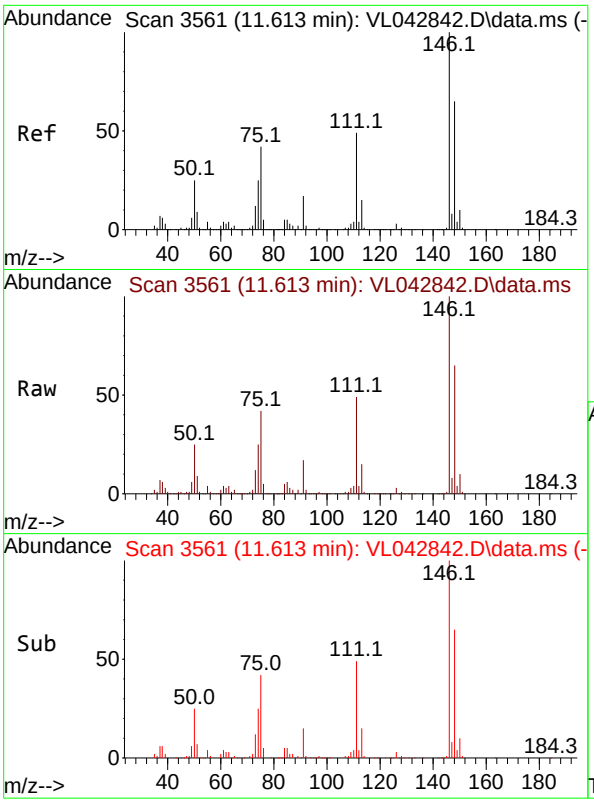


#74
1,2,4-Trimethylbenzene
Concen: 8.853 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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

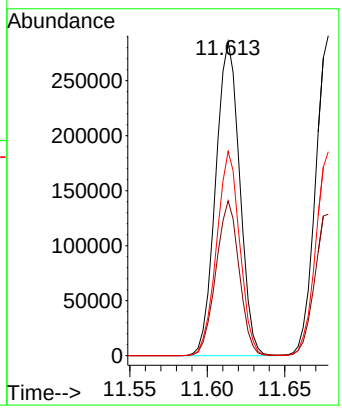




#75
1,3-Dichlorobenzene
Concen: 9.280 ppbv
RT: 11.613 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion:146 Resp: 30764

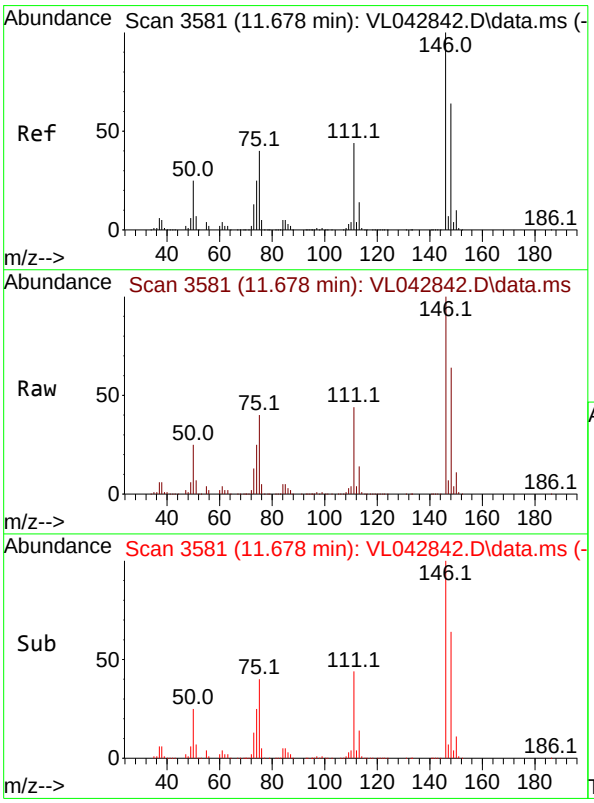
Ion	Ratio	Lower	Upper
146	100		
111	47.8	23.9	71.7
148	62.7	31.4	94.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

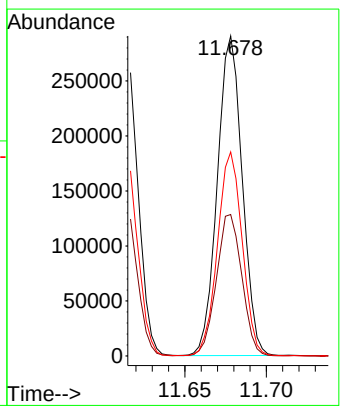
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

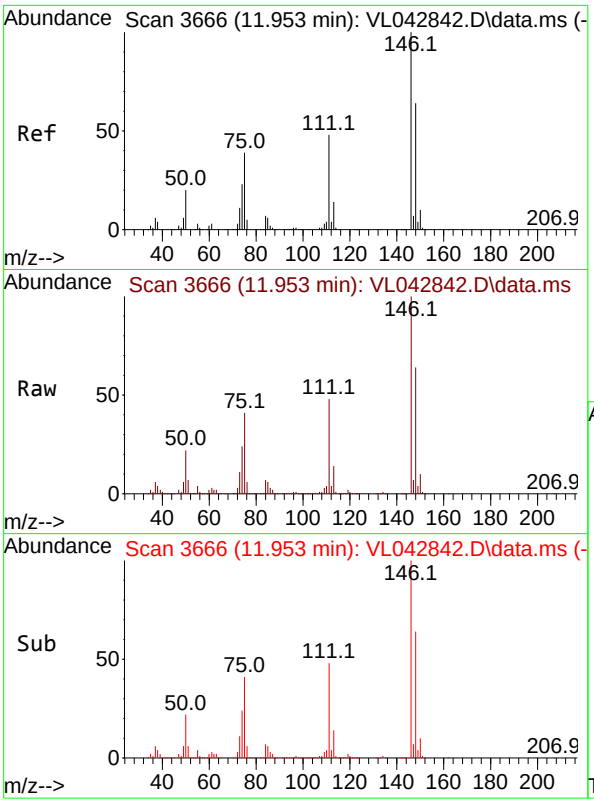


#76
1,4-Dichlorobenzene
Concen: 9.203 ppbv
RT: 11.678 min Scan# 3581
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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

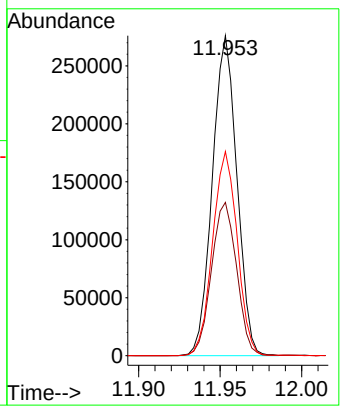




#77
1,2-Dichlorobenzene
Concen: 8.907 ppbv
RT: 11.953 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion:146 Resp: 28911

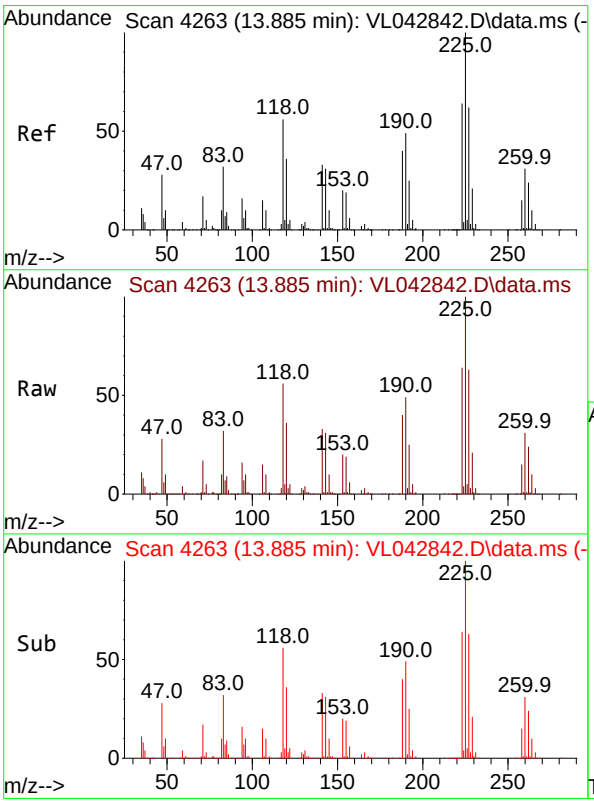
Ion	Ratio	Lower	Upper
146	100		
111	49.3	24.6	74.0
148	64.0	32.0	96.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

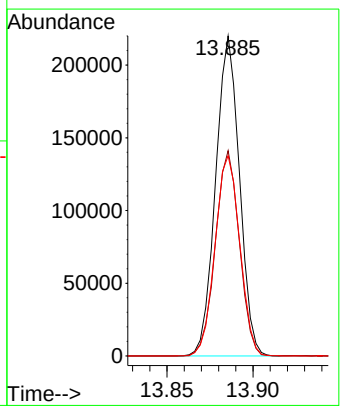
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

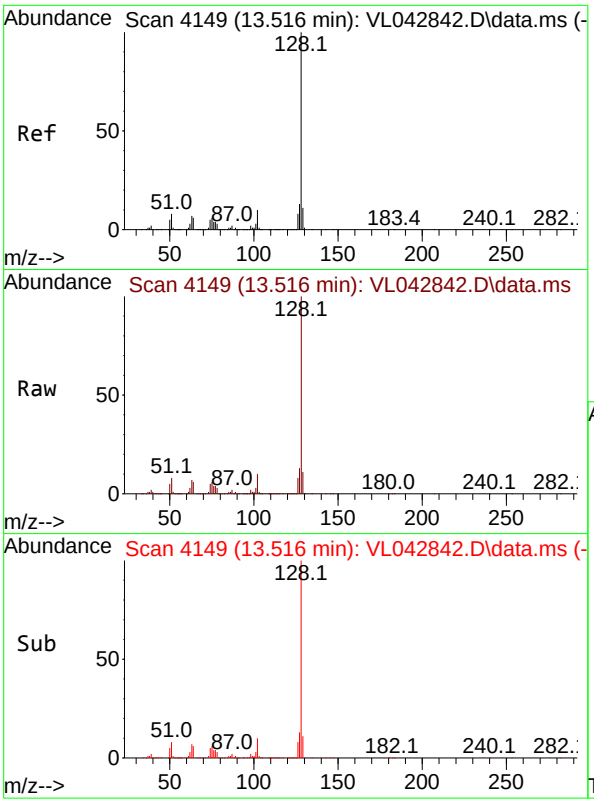


#78
Hexachloro-1,3-Butadiene
Concen: 7.968 ppbv
RT: 13.885 min Scan# 4263
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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

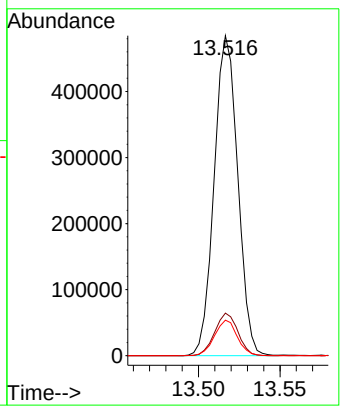




#79
Naphthalene
Concen: 9.335 ppbv
RT: 13.516 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion:128 Resp: 48717

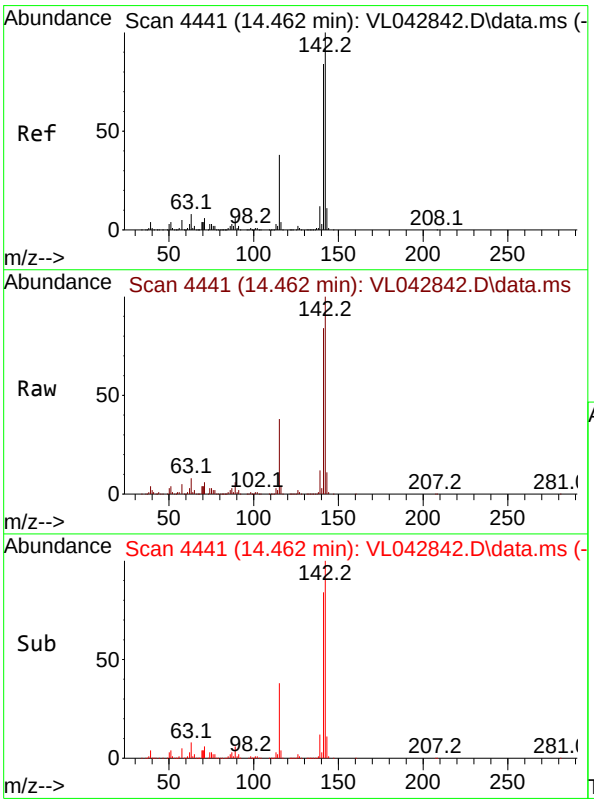
Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.6	16.0
129	11.1	8.9	13.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

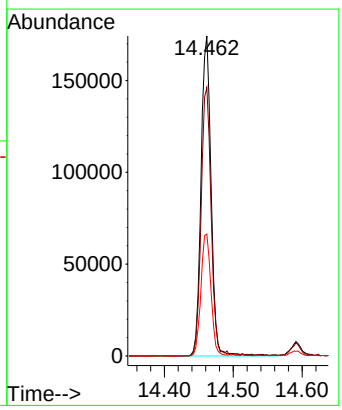
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

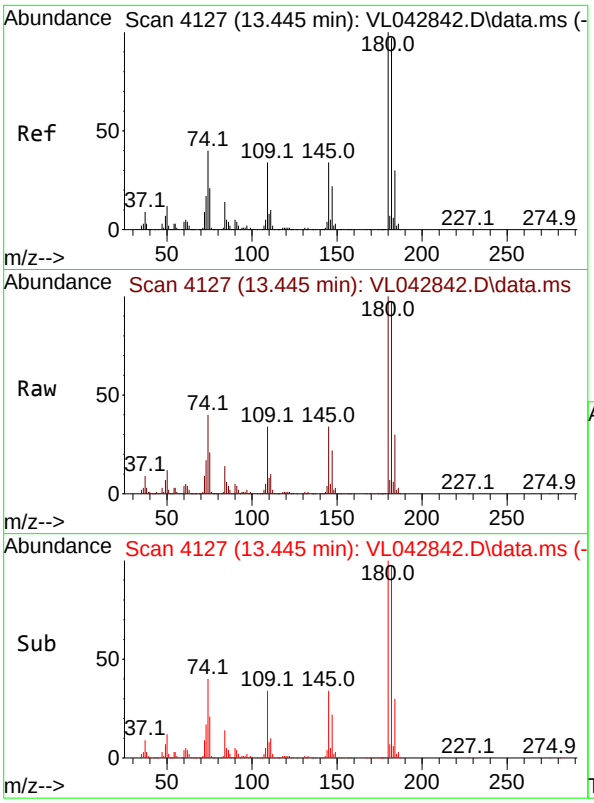


#80
Naphthalene,2-methyl-
Concen: 9.000 ppbv
RT: 14.462 min Scan# 4441
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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

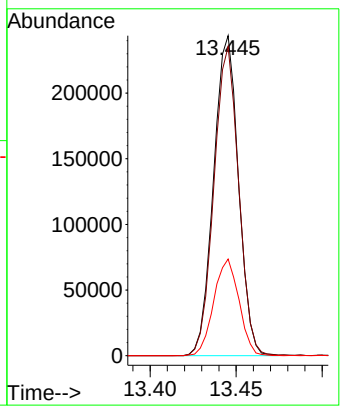




#81
1,2,4-Trichlorobenzene
Concen: 9.220 ppbv
RT: 13.445 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion:180 Resp: 24499

Ion	Ratio	Lower	Upper
180	100		
182	96.1	76.9	115.3
184	30.6	24.5	36.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

Quantitation Report (QT Reviewed)

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

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 1
QLast Update : Thu Aug 14 01:44:36 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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	2.794	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	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

Quantitation Report (QT Reviewed)

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

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 1
QLast Update : Thu Aug 14 01:44:36 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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)
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

Quantitation Report (QT Reviewed)

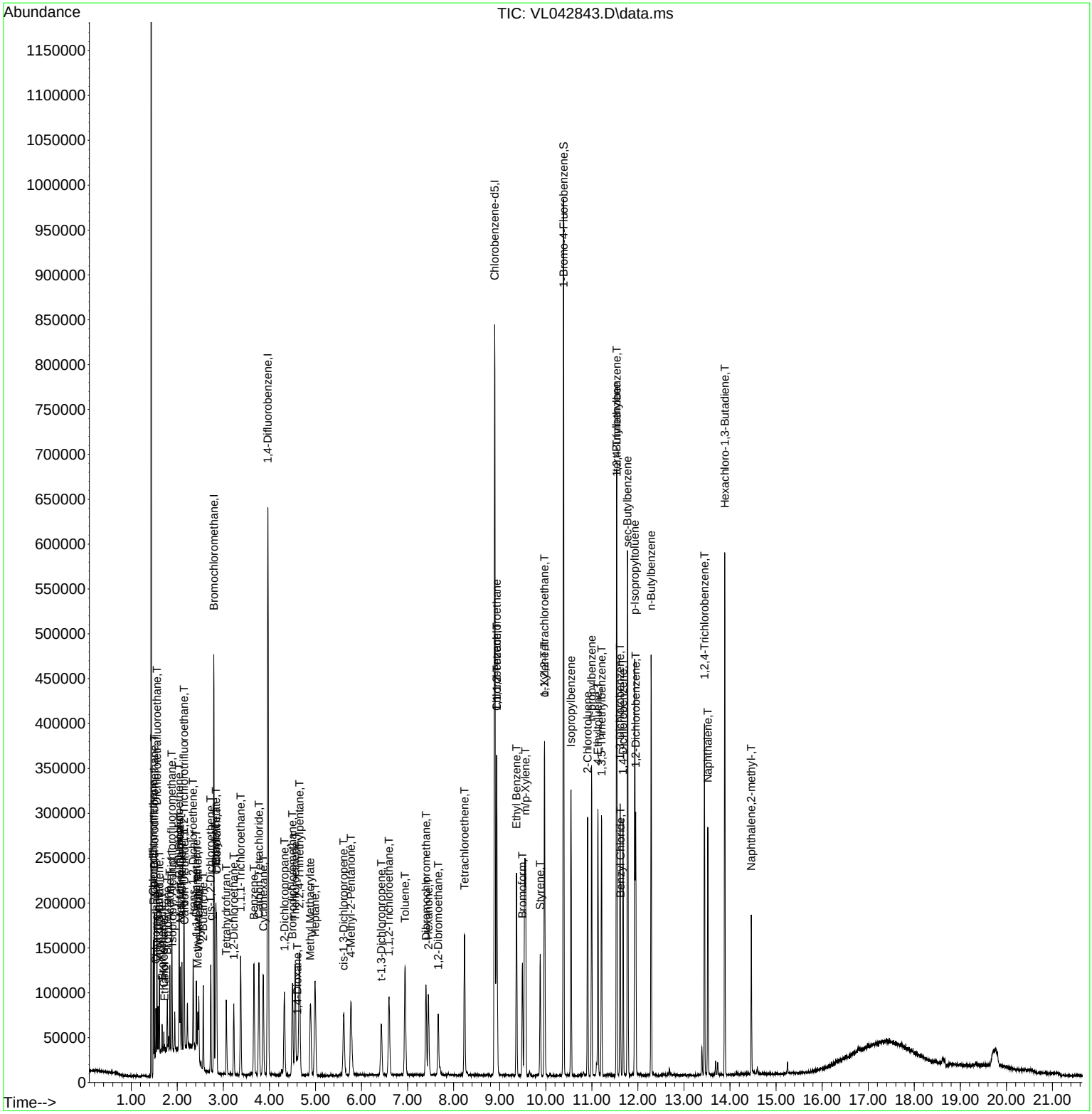
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
Data File : VL042843.D
Acq On : 13 Aug 2025 09:06
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

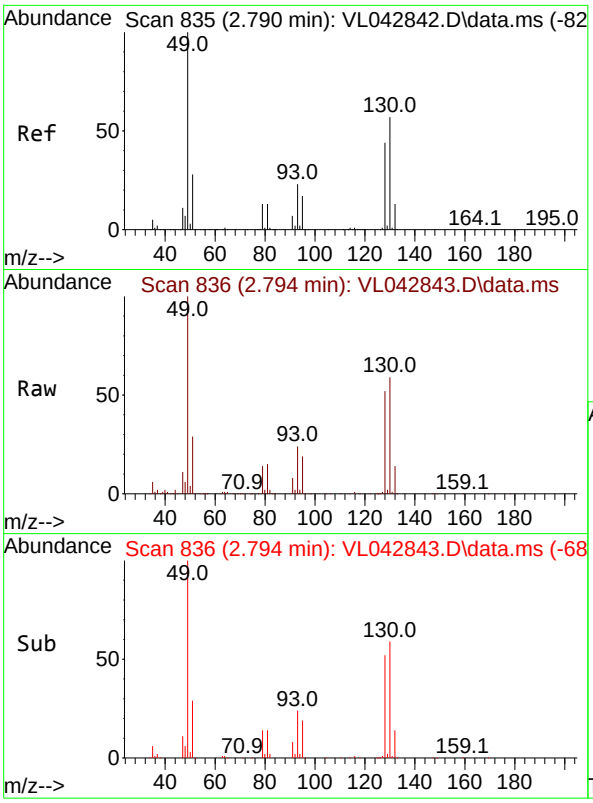
Quant Time: Aug 14 01:46:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Aug 14 01:44:36 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

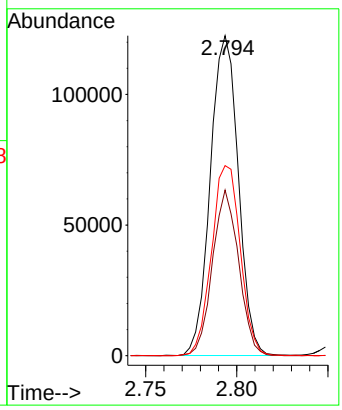




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.794 min Scan# 8
Delta R.T. 0.004 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 49 Resp: 13055

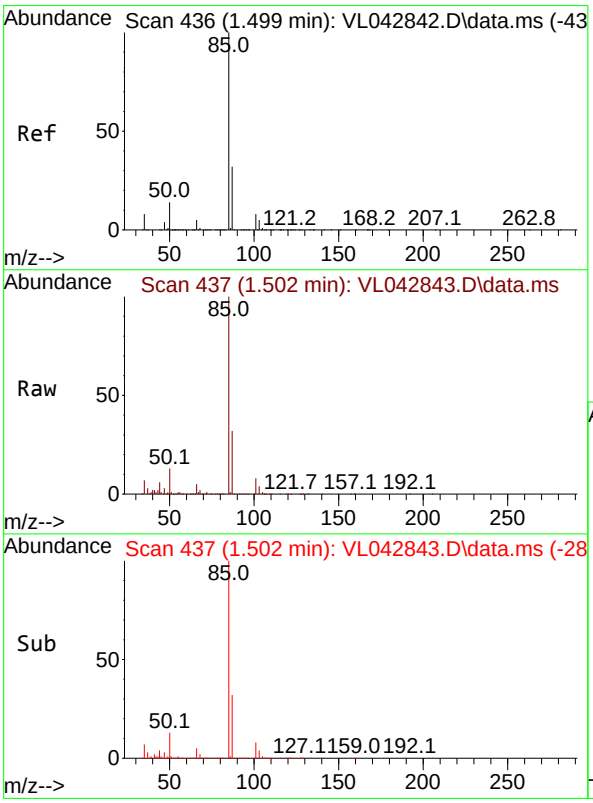
Ion	Ratio	Lower	Upper
49	100		
128	48.7	23.7	71.1
130	61.3	30.6	91.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

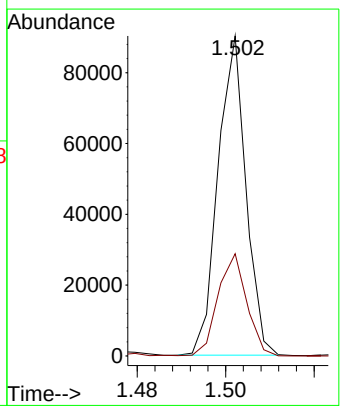
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

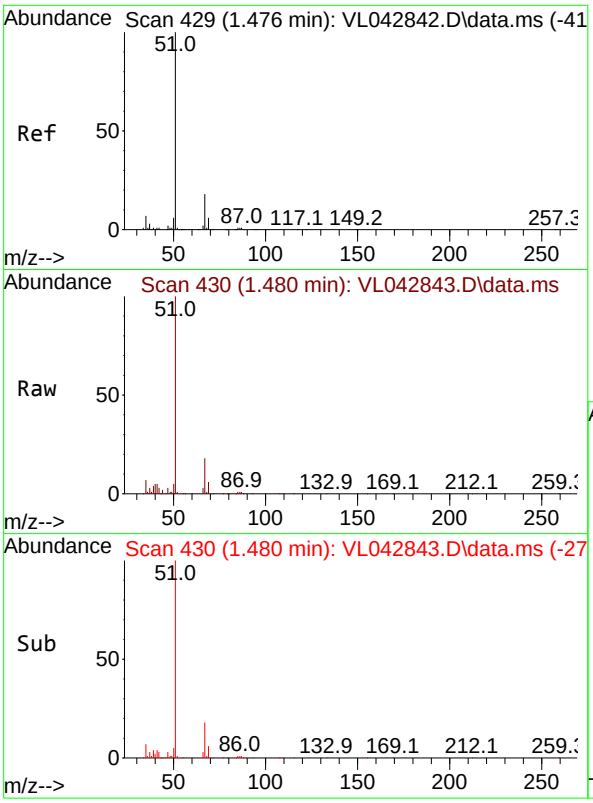


#2
Dichlorodifluoromethane
Concen: 2.061 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 85 Resp: 39443

Ion	Ratio	Lower	Upper
85	100		
87	32.0	25.3	37.9

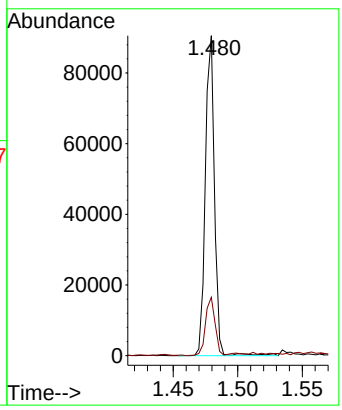




#3
Chlorodifluoromethane
Concen: 2.114 ppbv
RT: 1.480 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 51 Resp: 4475

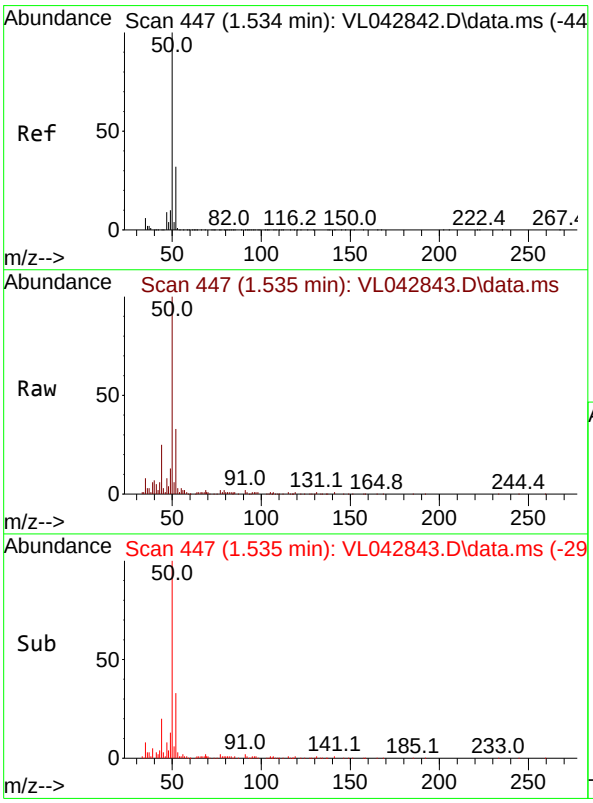
Ion	Ratio	Lower	Upper
51	100		
67	20.3	14.9	22.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

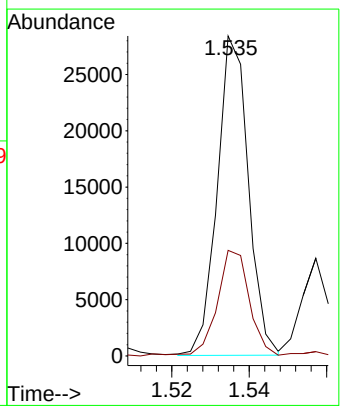
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

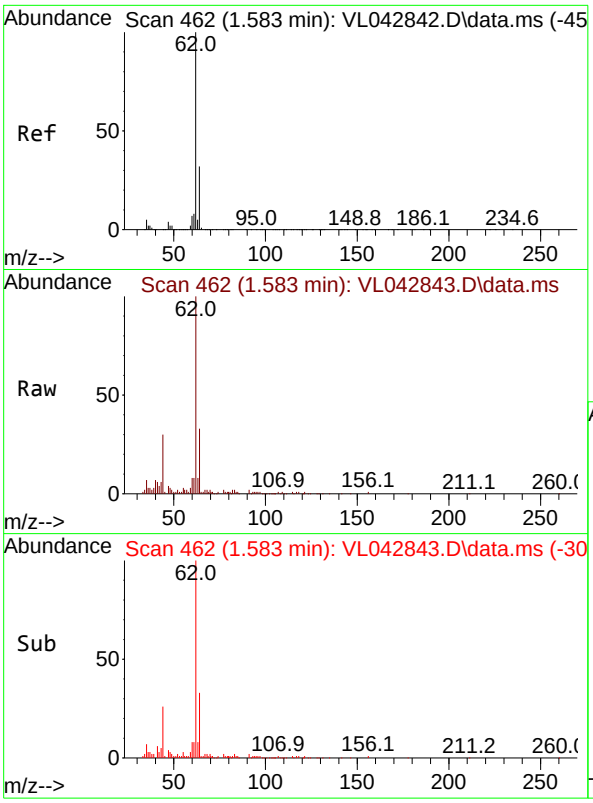


#4
Chloromethane
Concen: 2.050 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 50 Resp: 15826

Ion	Ratio	Lower	Upper
50	100		
52	33.0	25.9	38.9

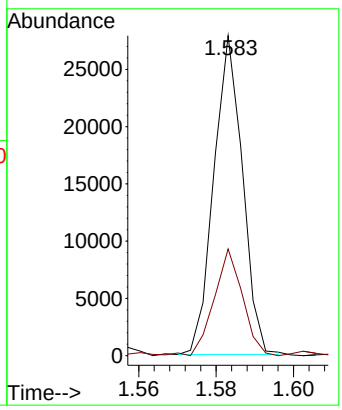




#5
Vinyl Chloride
Concen: 1.888 ppbv
RT: 1.583 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 62 Resp: 1435

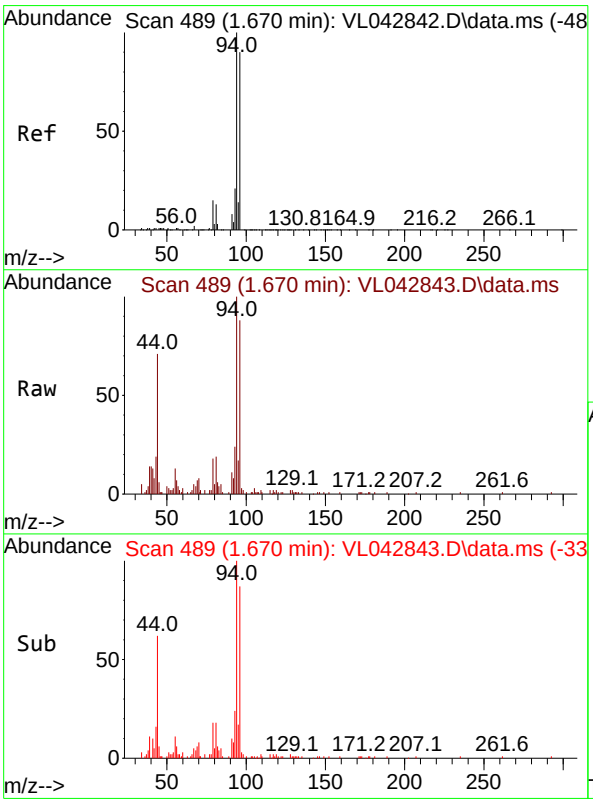
Ion	Ratio	Lower	Upper
62	100		
64	33.5	25.4	38.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

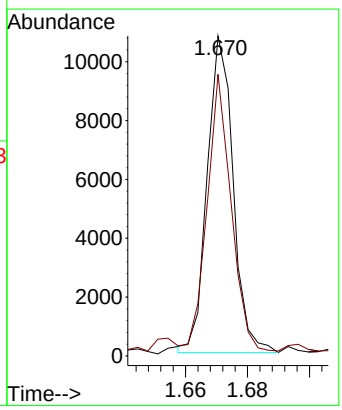
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

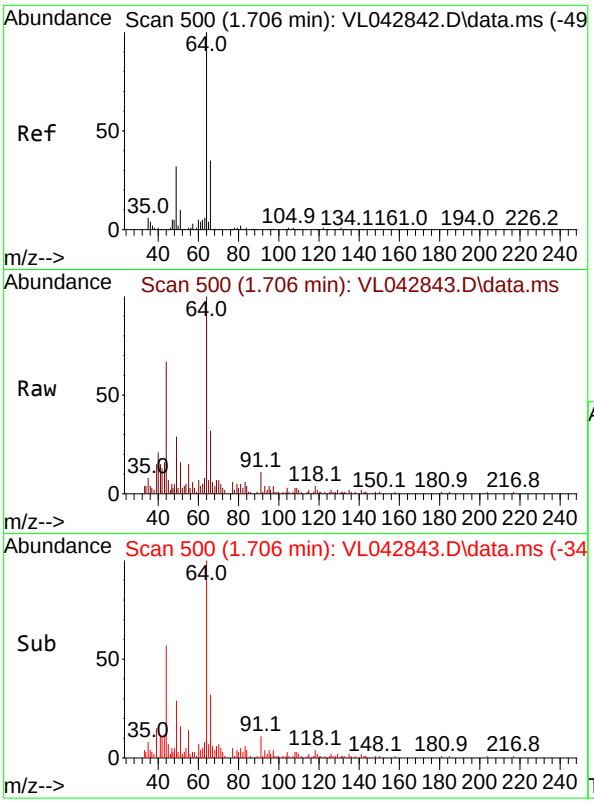


#6
Bromomethane
Concen: 2.055 ppbv
RT: 1.670 min Scan# 489
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 94 Resp: 6248

Ion	Ratio	Lower	Upper
94	100		
96	87.4	72.1	108.1

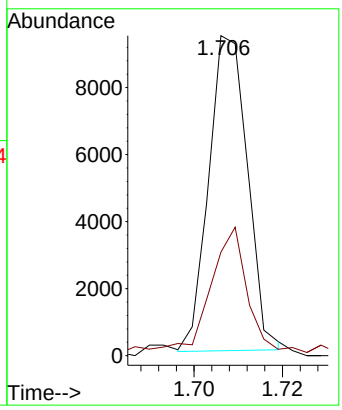




#7
Chloroethane
Concen: 1.925 ppbv
RT: 1.706 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 64 Resp: 571

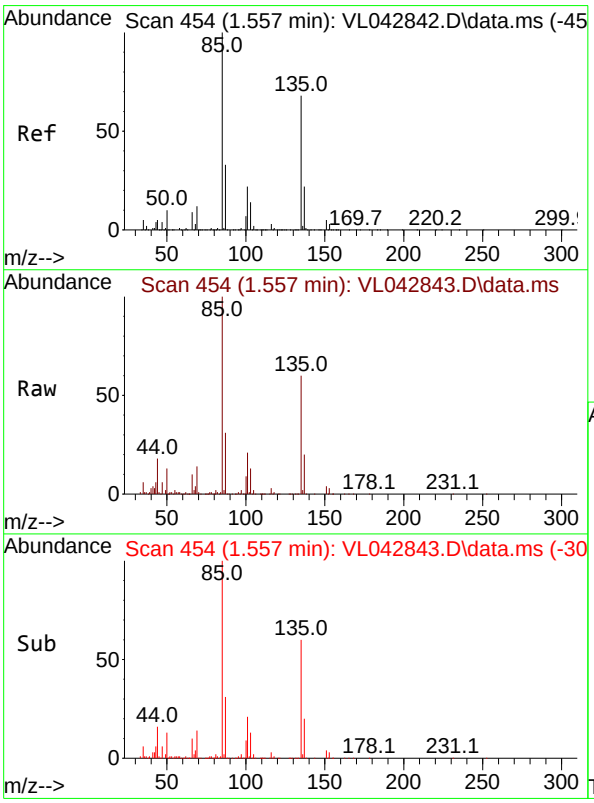
Ion	Ratio	Lower	Upper
64	100		
66	32.3	28.6	42.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

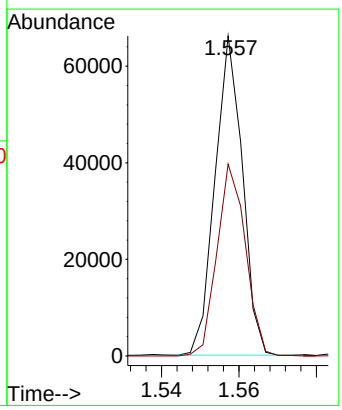
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

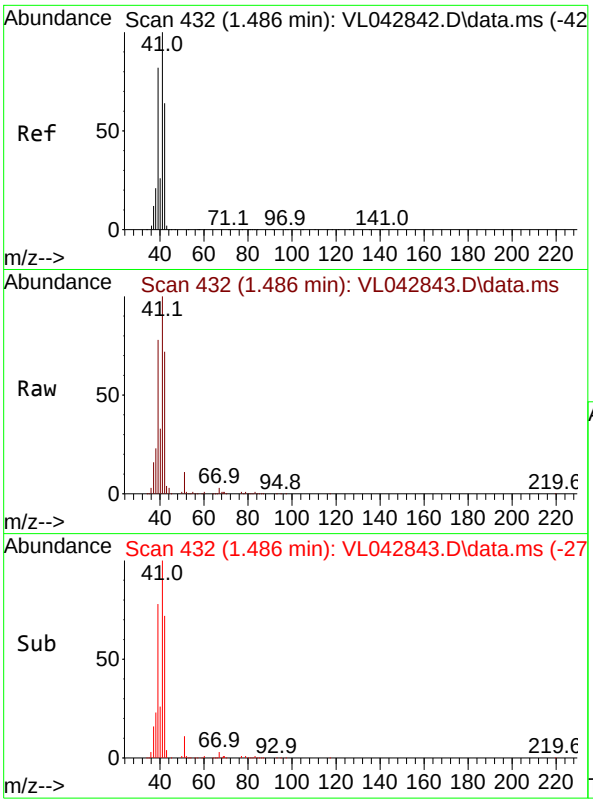


#8
Dichlorotetrafluoroethane
Concen: 2.075 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 85 Resp: 32496

Ion	Ratio	Lower	Upper
85	100		
135	62.7	51.2	76.8

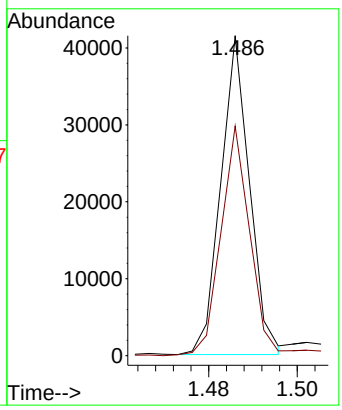




#9
Propene
Concen: 2.045 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 41 Resp: 1867

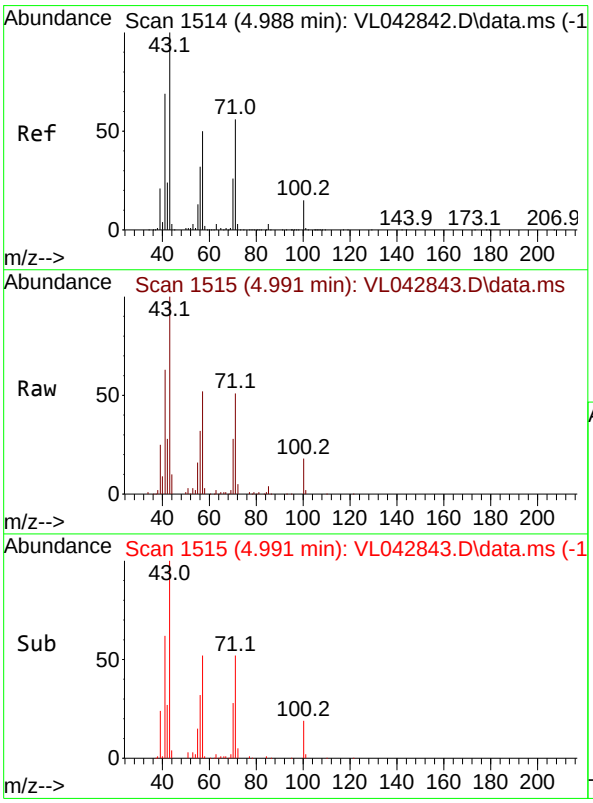
Ion	Ratio	Lower	Upper
41	100		
42	74.8	53.0	79.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

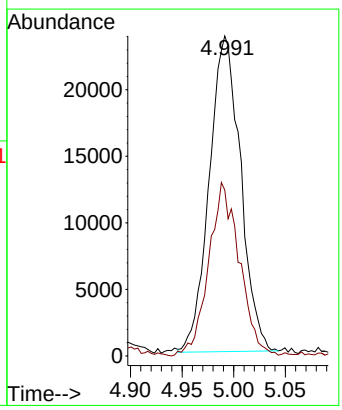
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

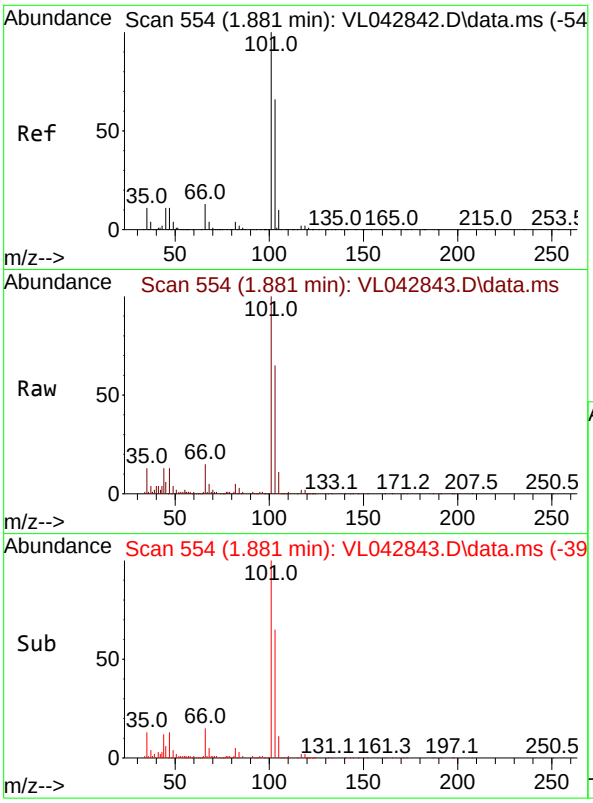


#10
Heptane
Concen: 2.050 ppbv
RT: 4.991 min Scan# 1515
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 43 Resp: 50062

Ion	Ratio	Lower	Upper
43	100		
57	54.1	41.4	62.0

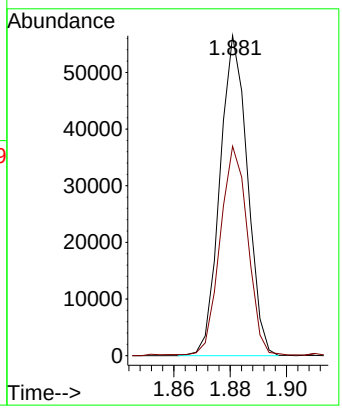




#11
Trichlorofluoromethane
Concen: 2.029 ppbv
RT: 1.881 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion:101 Resp: 3830

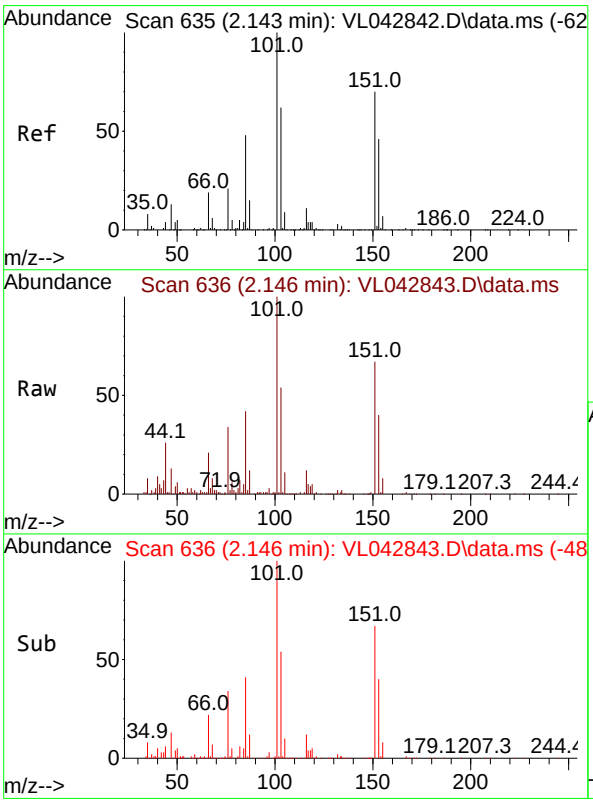
Ion	Ratio	Lower	Upper
101	100		
103	65.1	52.5	78.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

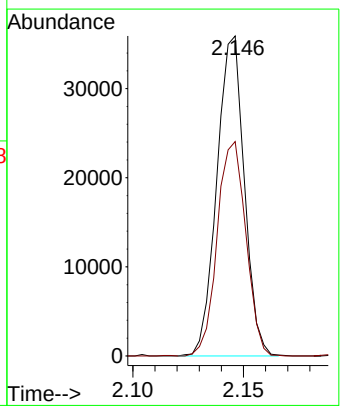
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

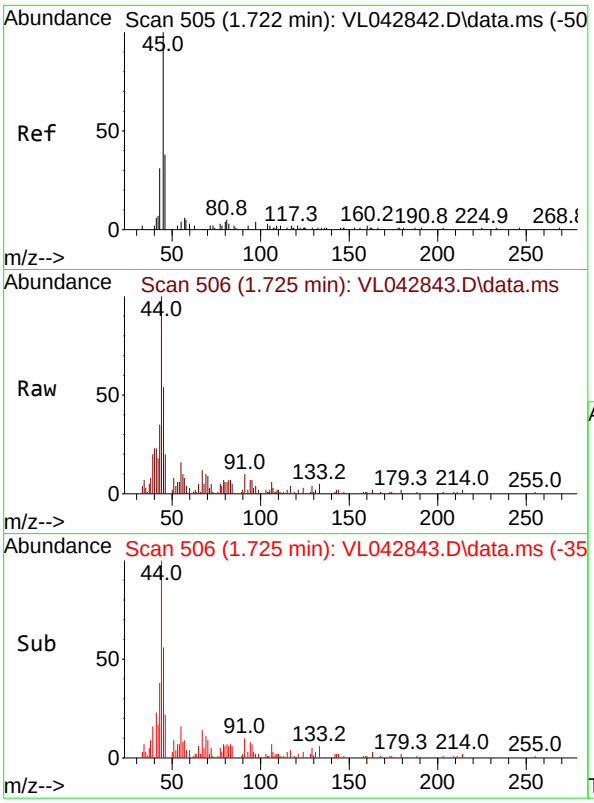


#12
1,1,2-Trichlorotrifluoroethane
Concen: 2.064 ppbv
RT: 2.146 min Scan# 636
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion:101 Resp: 31052

Ion	Ratio	Lower	Upper
101	100		
151	69.7	56.4	84.6

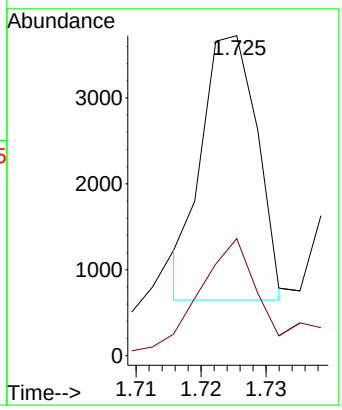




#13
Ethanol
Concen: 2.008 ppbv m
RT: 1.725 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 45 Resp: 181

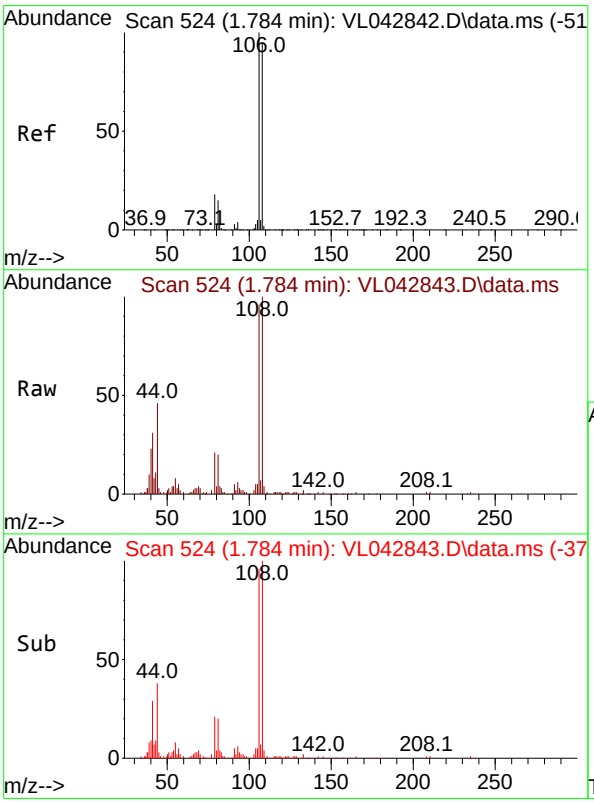
Ion	Ratio	Lower	Upper
45	100		
46	60.5	17.5	69.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

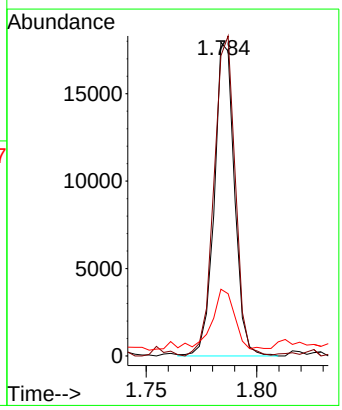
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

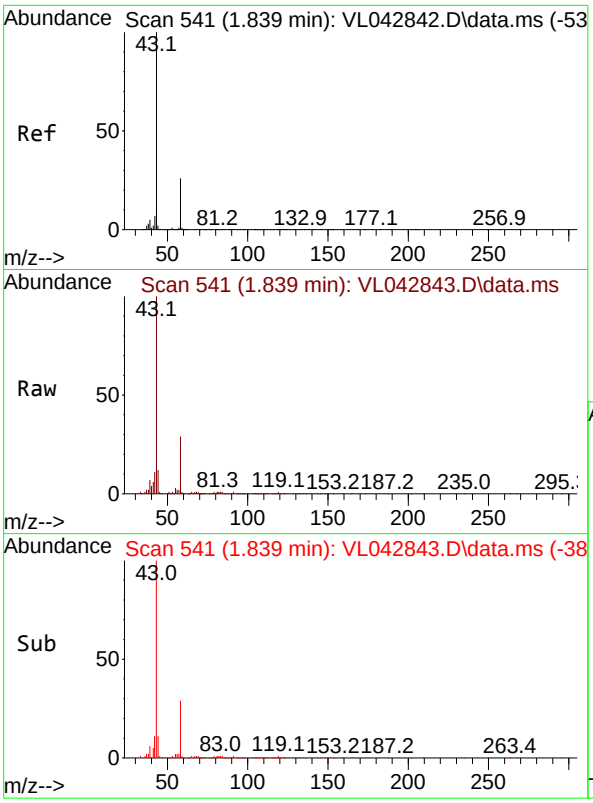


#14
Bromoethene
Concen: 2.089 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

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# 54
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

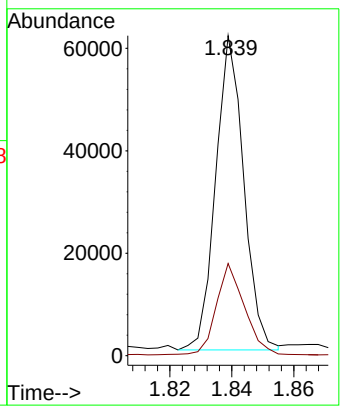
Tgt Ion: 43 Resp: 3853

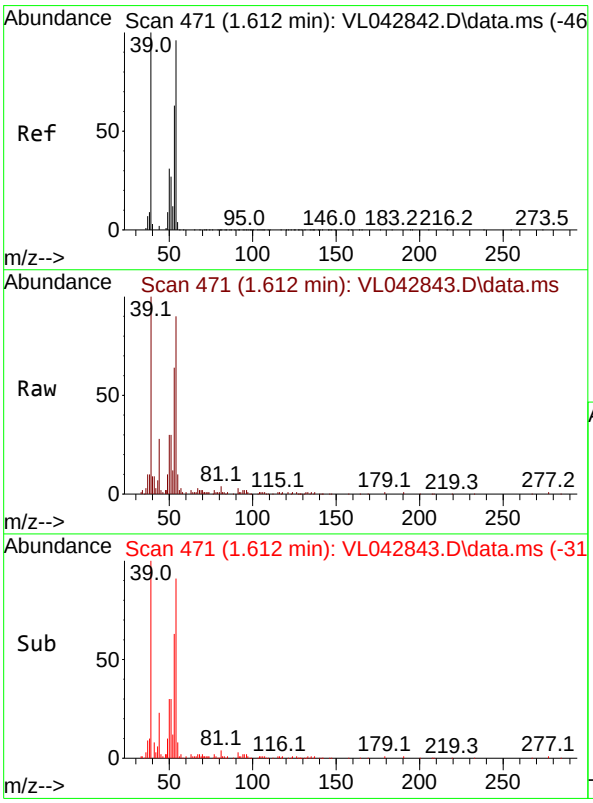
Ion	Ratio	Lower	Upper
43	100		
58	30.3	22.4	33.6

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

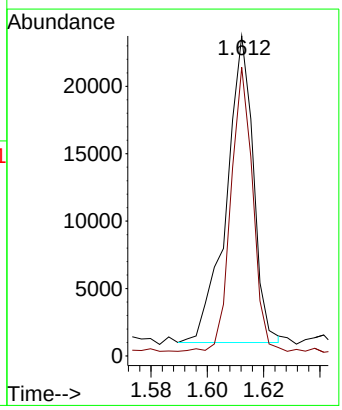


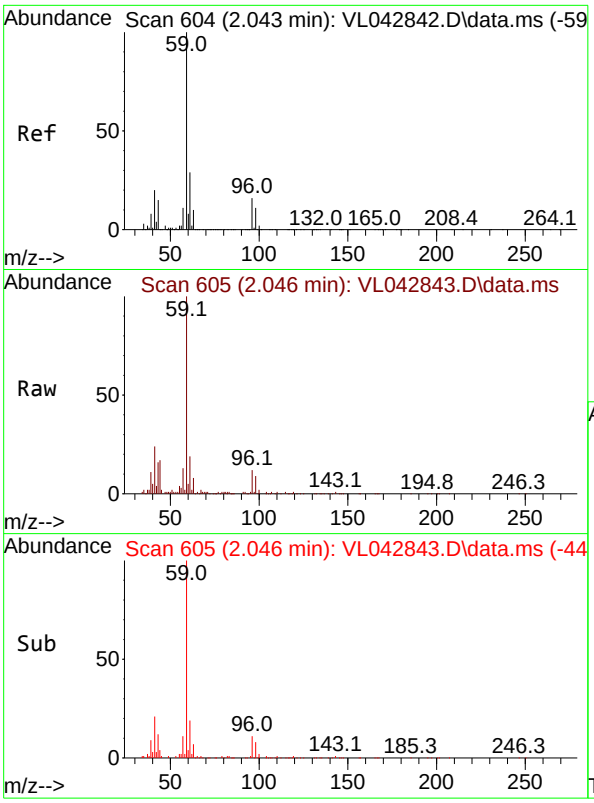


#16
1,3-Butadiene
Concen: 1.932 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 39 Resp: 15122

Ion	Ratio	Lower	Upper
39	100		
54	80.8	63.6	95.4

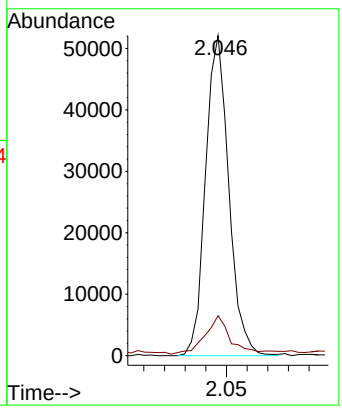




#17
tert-Butyl alcohol
Concen: 1.985 ppbv
RT: 2.046 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 59 Resp: 4065

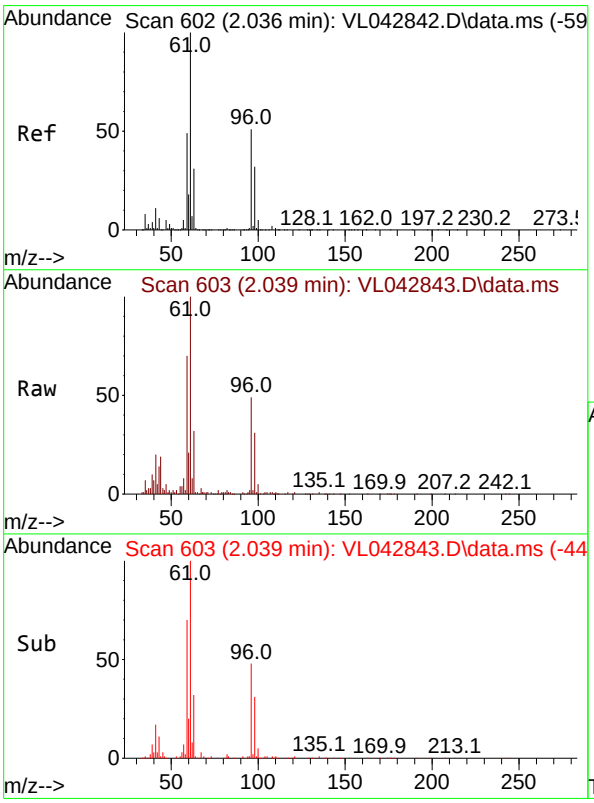
Ion	Ratio	Lower	Upper
59	100		
57	12.4	9.0	13.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

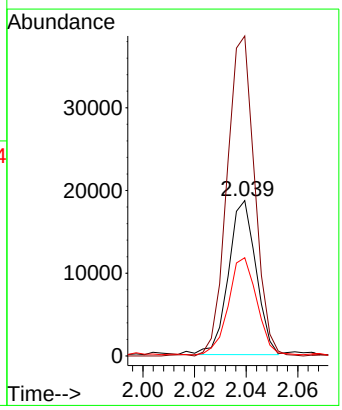
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

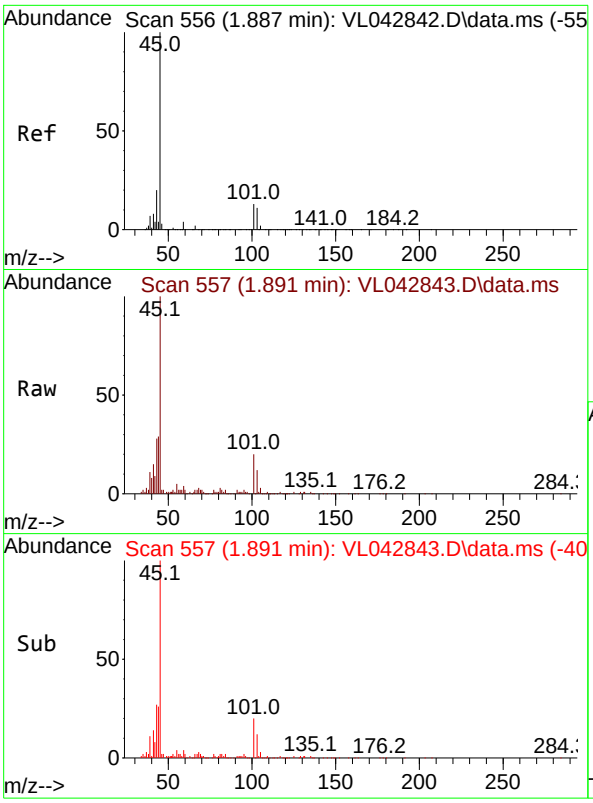


#18
1,1-Dichloroethene
Concen: 2.099 ppbv
RT: 2.039 min Scan# 603
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

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

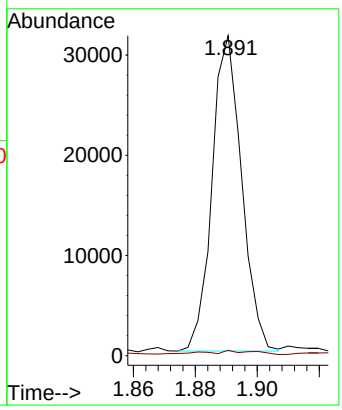




#19
Isopropyl Alcohol
Concen: 2.023 ppbv
RT: 1.891 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 45 Resp: 2086

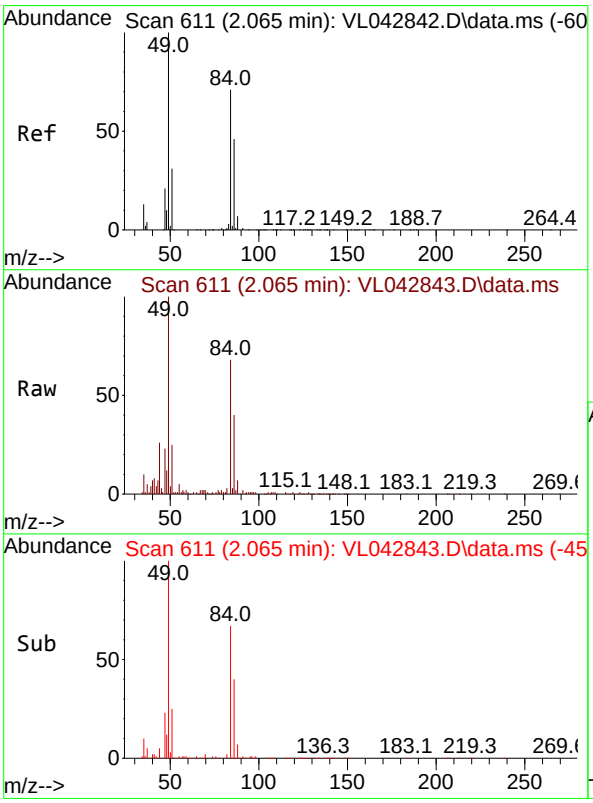
Ion	Ratio	Lower	Upper
45	100		
58	3.1	32.7	49.1#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
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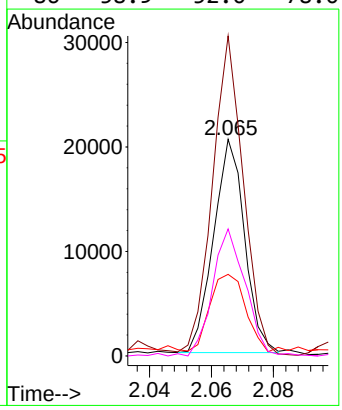
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

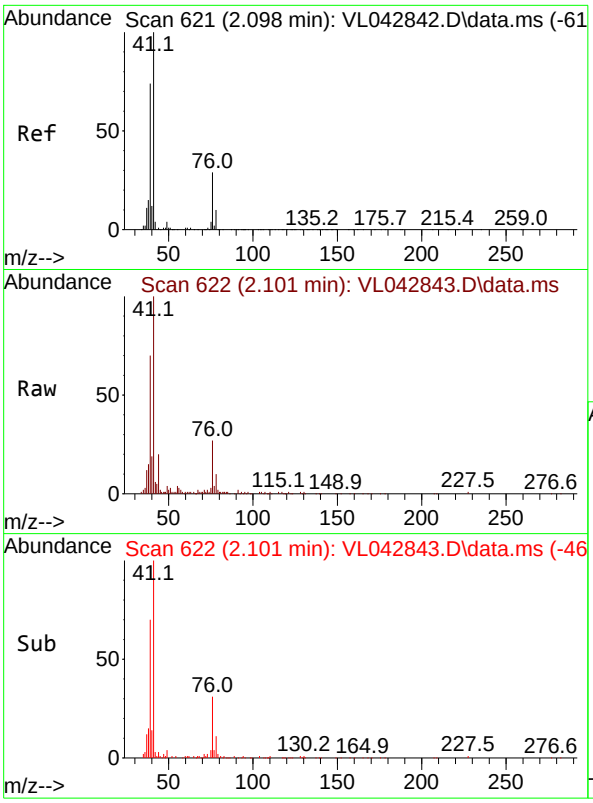


#20
Methylene Chloride
Concen: 1.963 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

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

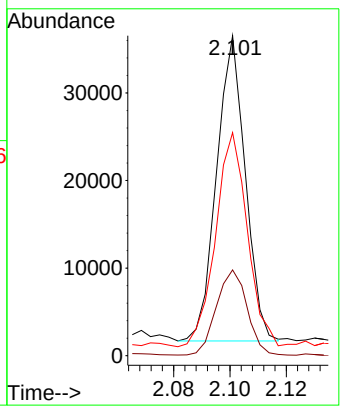




#21
Allyl Chloride
Concen: 2.021 ppbv
RT: 2.101 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 41 Resp: 2466

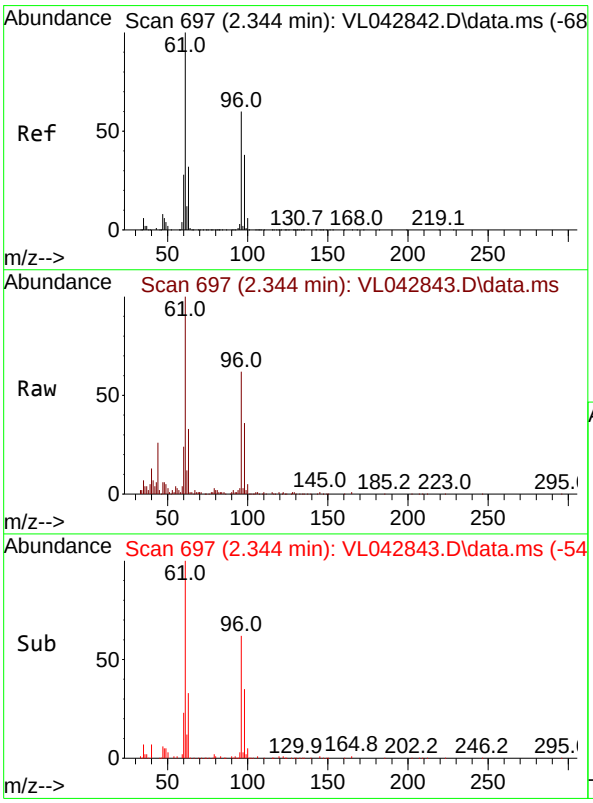
Ion	Ratio	Lower	Upper
41	100		
76	31.2	23.9	35.9
39	76.0	57.8	86.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
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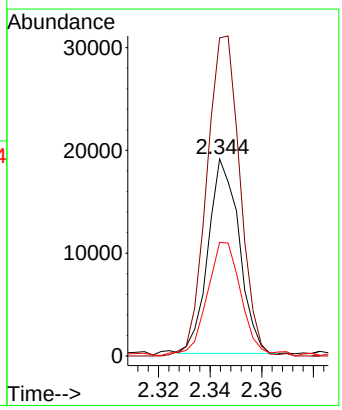
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

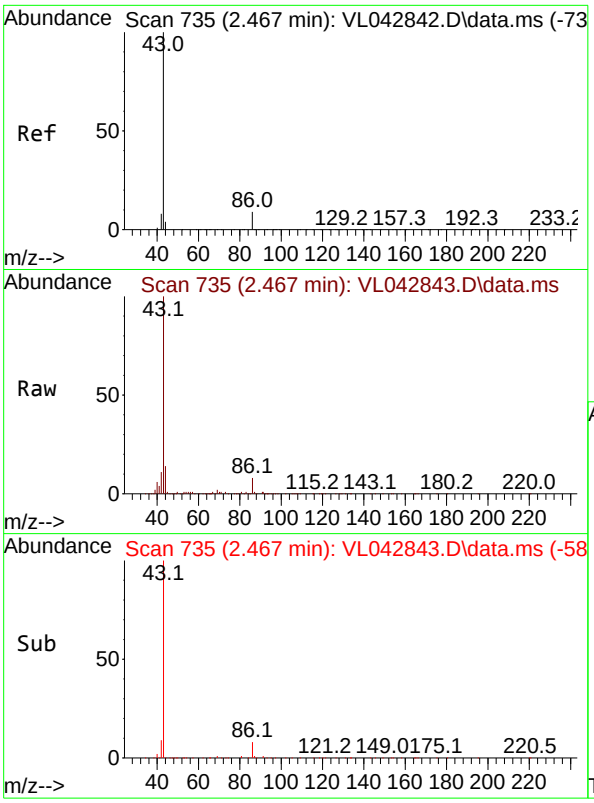


#22
trans-1,2-Dichloroethene
Concen: 2.132 ppbv
RT: 2.344 min Scan# 697
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

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

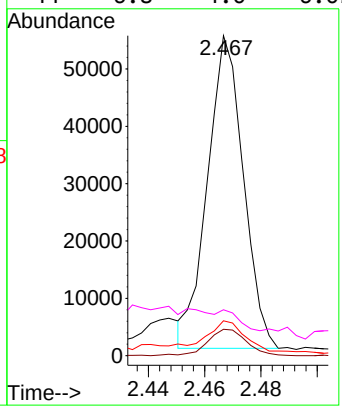




#23
Vinyl Acetate
Concen: 2.125 ppbv
RT: 2.467 min Scan# 7
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 43 Resp: 4826

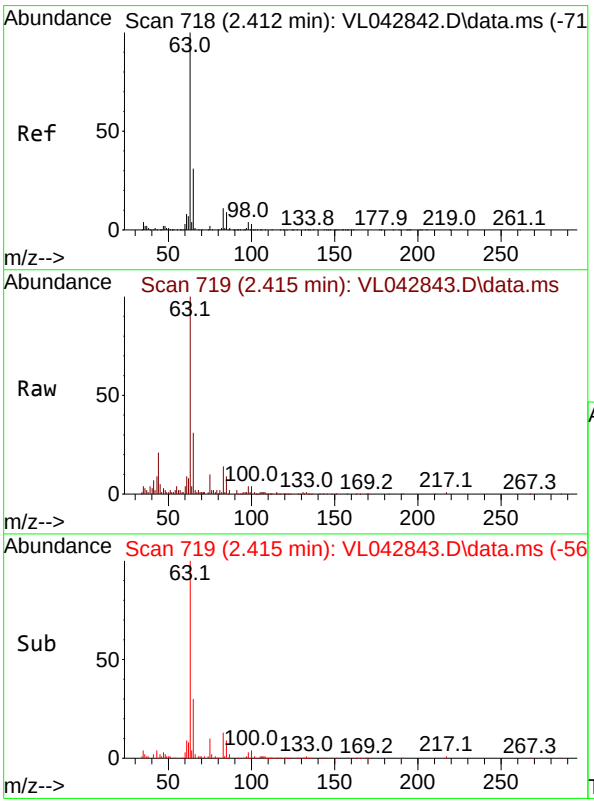
Ion	Ratio	Lower	Upper
43	100		
86	8.2	6.6	9.8
42	9.7	7.0	10.6
44	6.8	4.0	6.0#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
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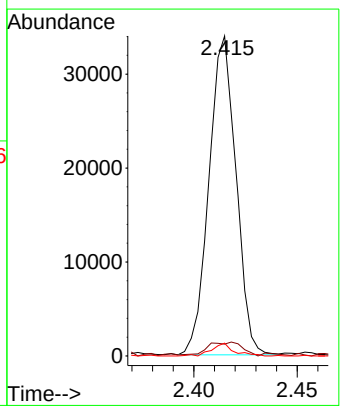
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

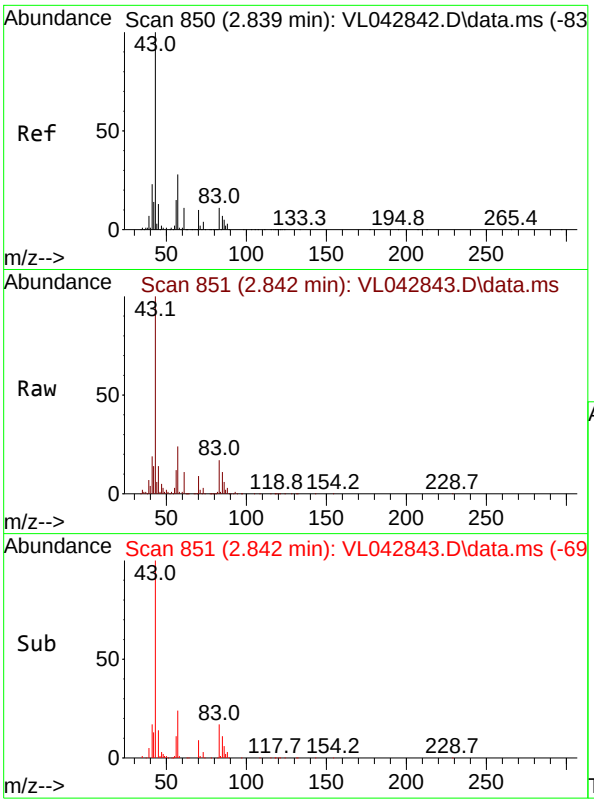


#24
1,1-Dichloroethane
Concen: 2.024 ppbv
RT: 2.415 min Scan# 719
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 63 Resp: 30931

Ion	Ratio	Lower	Upper
63	100		
98	3.4	2.1	6.5
100	4.0	1.7	5.1

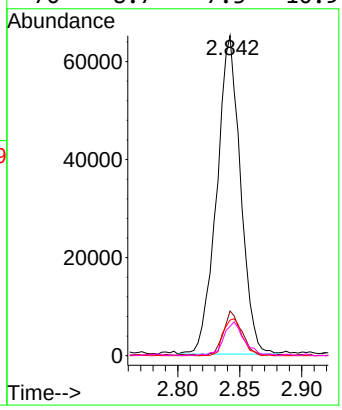




#25
Ethyl Acetate
Concen: 2.077 ppbv
RT: 2.842 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 43 Resp: 8680

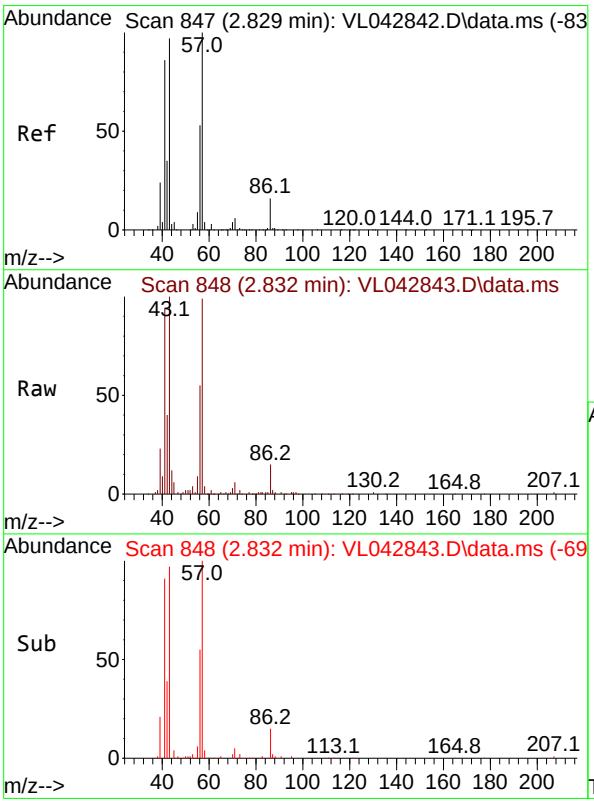
Ion	Ratio	Lower	Upper
43	100		
45	11.4	8.1	12.1
61	9.4	7.4	11.2
70	8.7	7.3	10.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

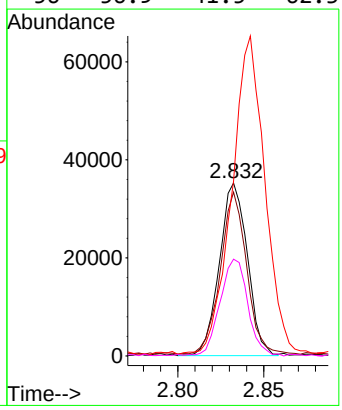
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

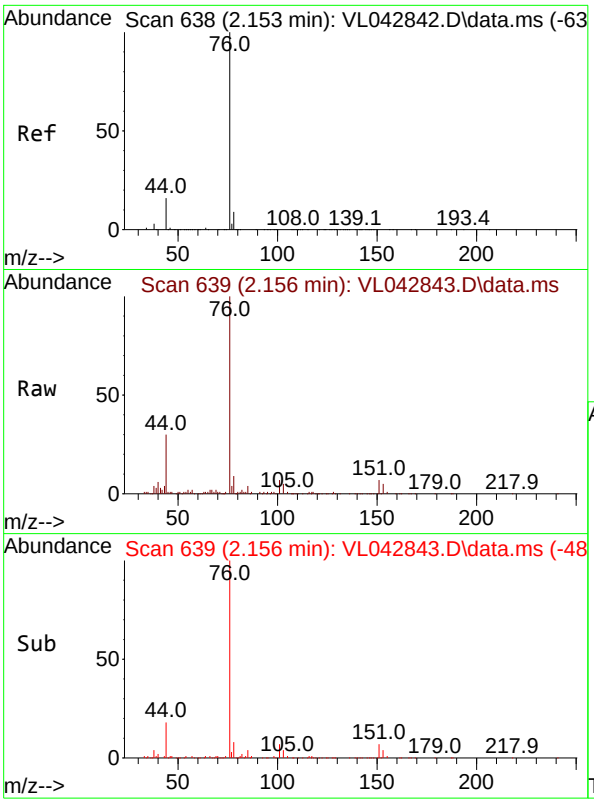


#26
Hexane
Concen: 2.060 ppbv
RT: 2.832 min Scan# 848
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

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

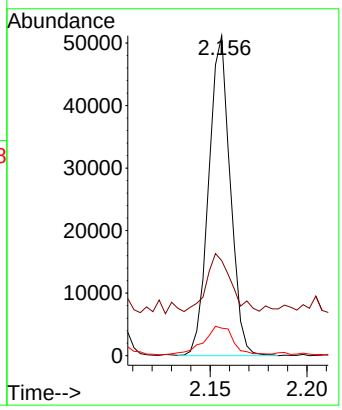




#27
Carbon Disulfide
Concen: 2.102 ppbv
RT: 2.156 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 76 Resp: 3946

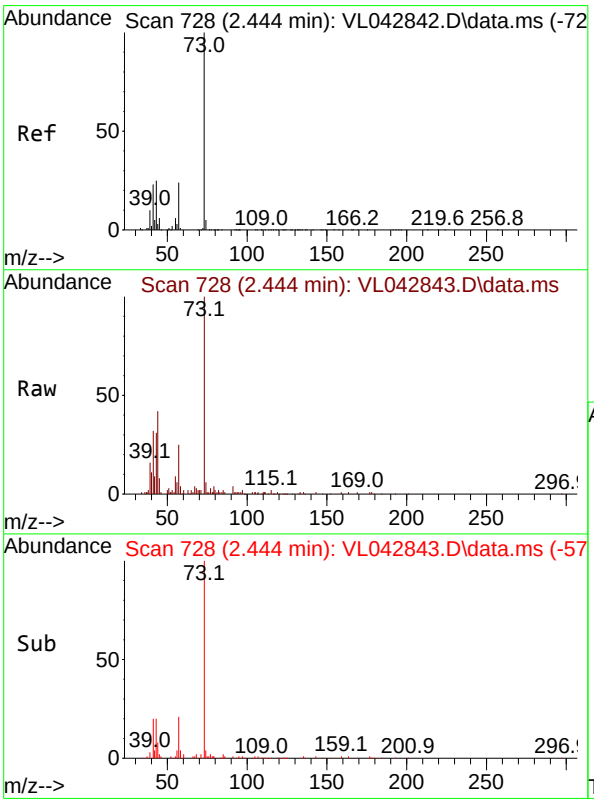
Ion	Ratio	Lower	Upper
76	100		
44	81.0	15.9	23.9#
78	13.8	9.5	14.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED

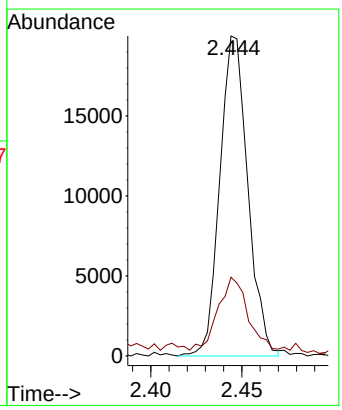
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

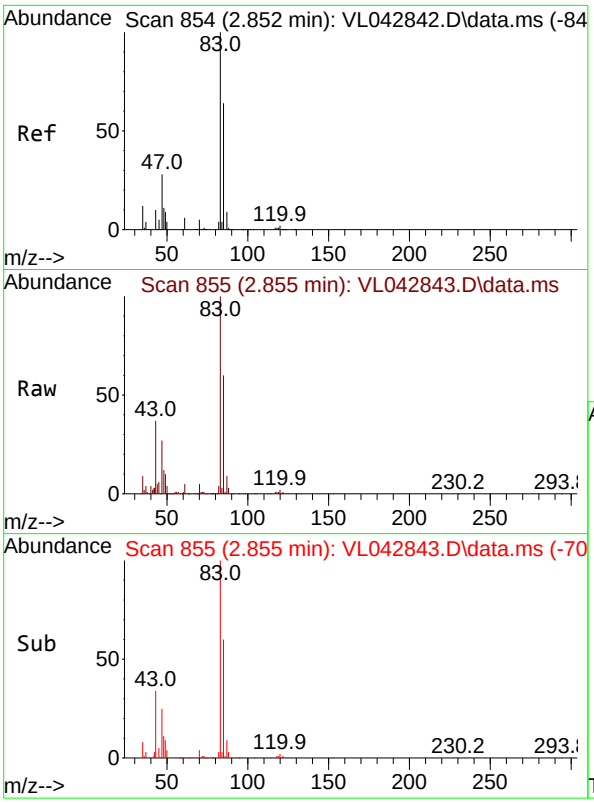


#28
Methyl tert-Butyl Ether
Concen: 2.169 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 73 Resp: 21341

Ion	Ratio	Lower	Upper
73	100		
57	24.8	21.6	32.4

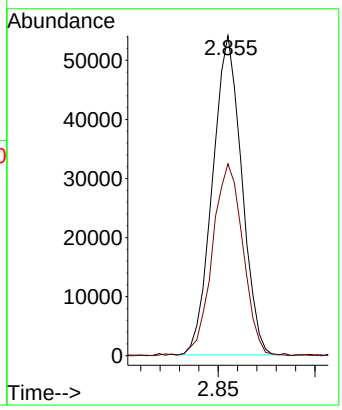




#29
Chloroform
Concen: 2.053 ppbv
RT: 2.855 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 83 Resp: 5655

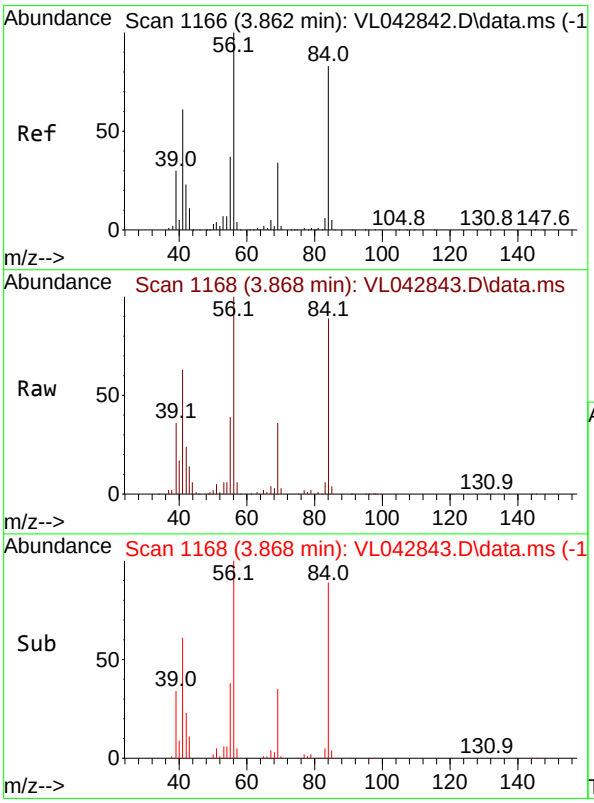
Ion	Ratio	Lower	Upper
83	100		
85	59.9	51.1	76.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
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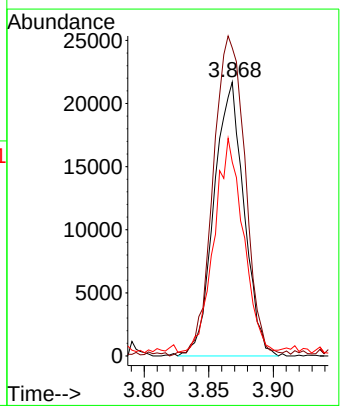
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

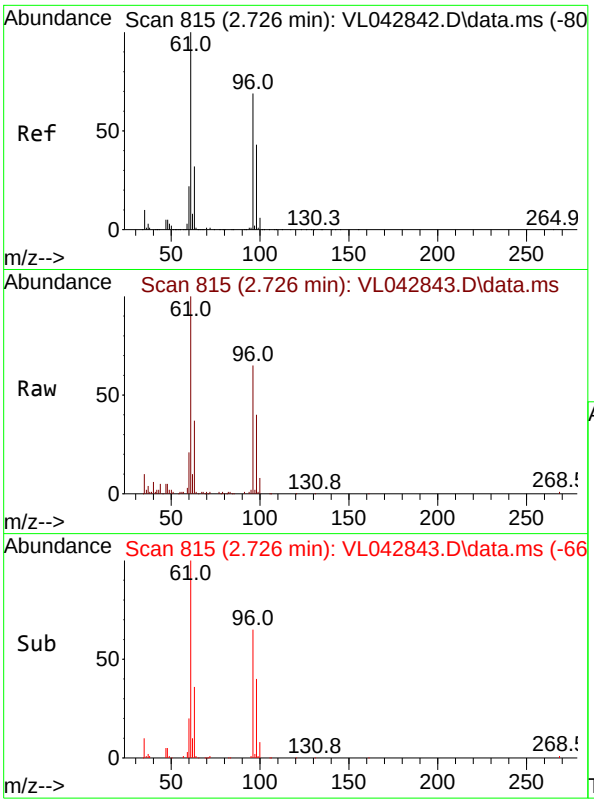


#30
Cyclohexane
Concen: 2.069 ppbv
RT: 3.868 min Scan# 1168
Delta R.T. 0.007 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

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

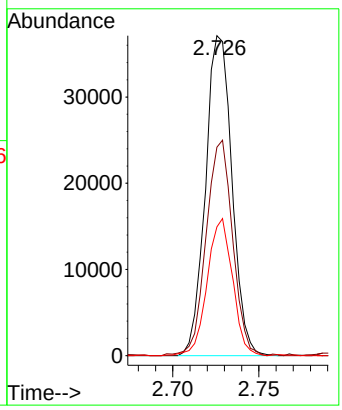




#31
cis-1,2-Dichloroethene
Concen: 2.062 ppbv
RT: 2.726 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 61 Resp: 3978

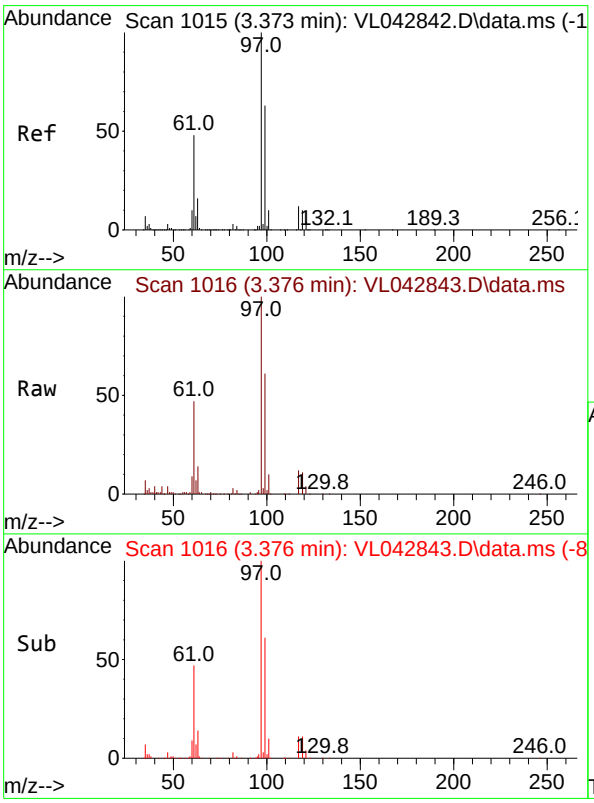
Ion	Ratio	Lower	Upper
61	100		
96	64.8	55.0	82.6
98	39.9	34.3	51.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
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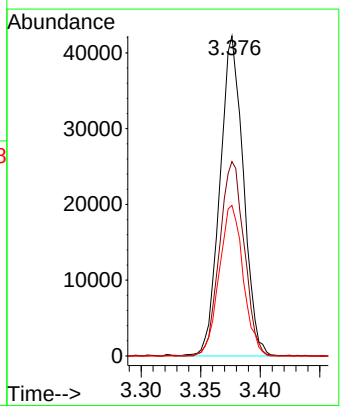
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

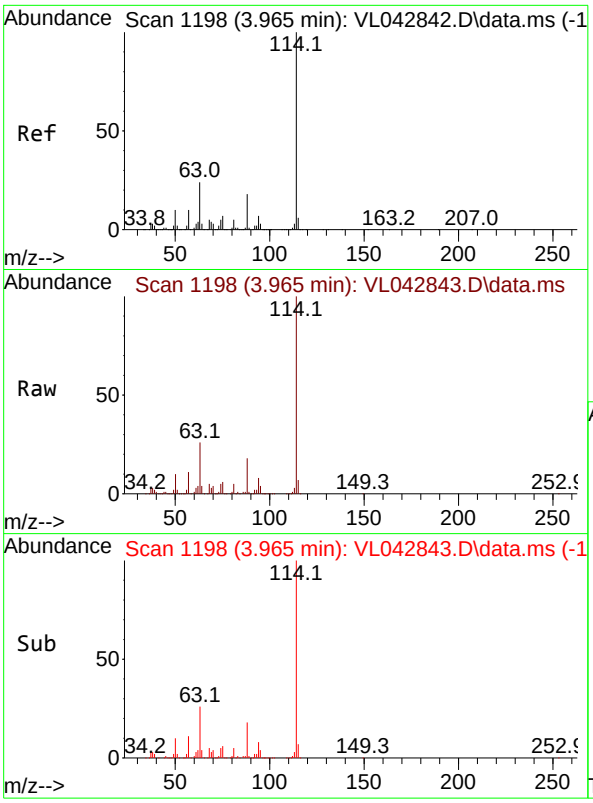


#32
1,1,1-Trichloroethane
Concen: 1.983 ppbv
RT: 3.376 min Scan# 1016
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

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# 1
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

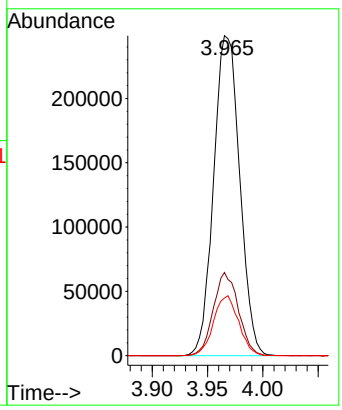
Tgt Ion:114 Resp: 40814

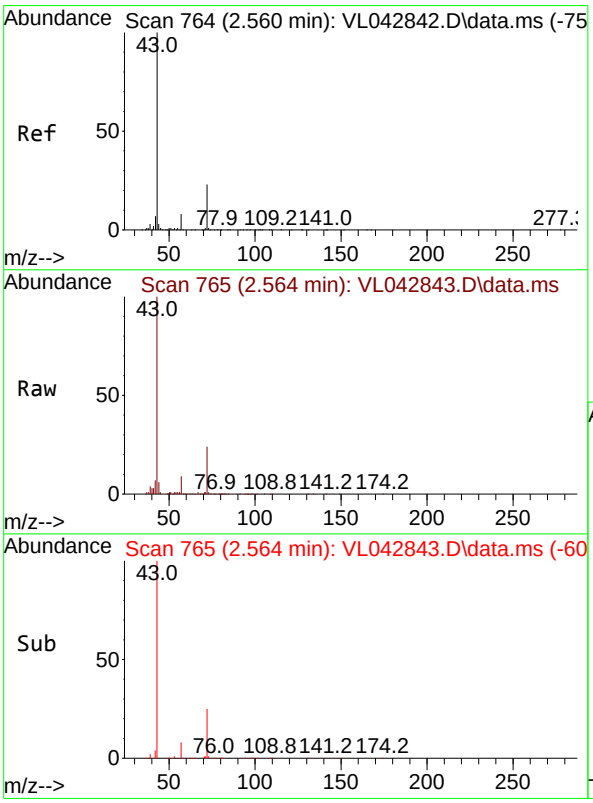
Ion	Ratio	Lower	Upper
114	100		
63	25.0	19.7	29.5
88	18.1	14.4	21.6

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

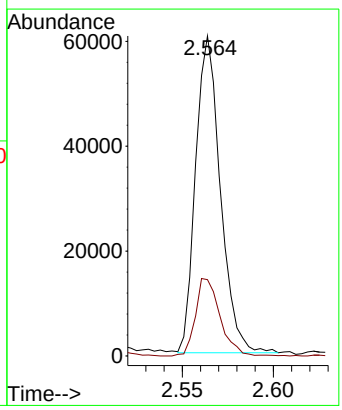


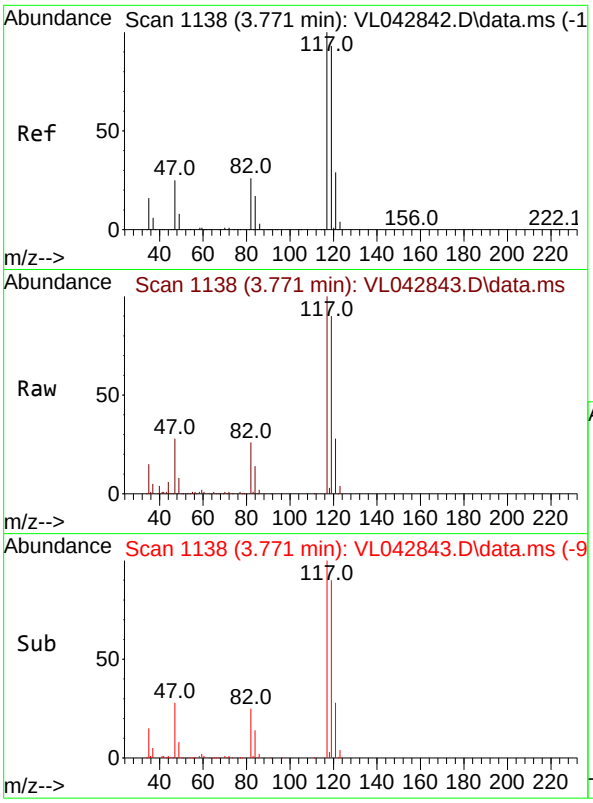


#34
2-Butanone
Concen: 2.075 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 43 Resp: 57172

Ion	Ratio	Lower	Upper
43	100		
72	24.3	18.6	28.0

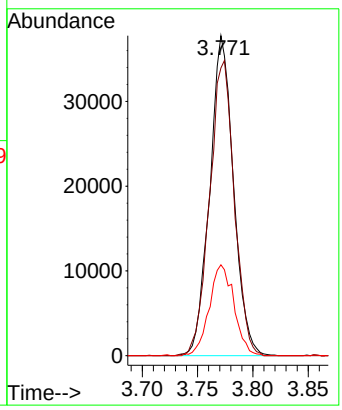




#35
Carbon Tetrachloride
Concen: 2.007 ppbv
RT: 3.771 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion:117 Resp: 5645

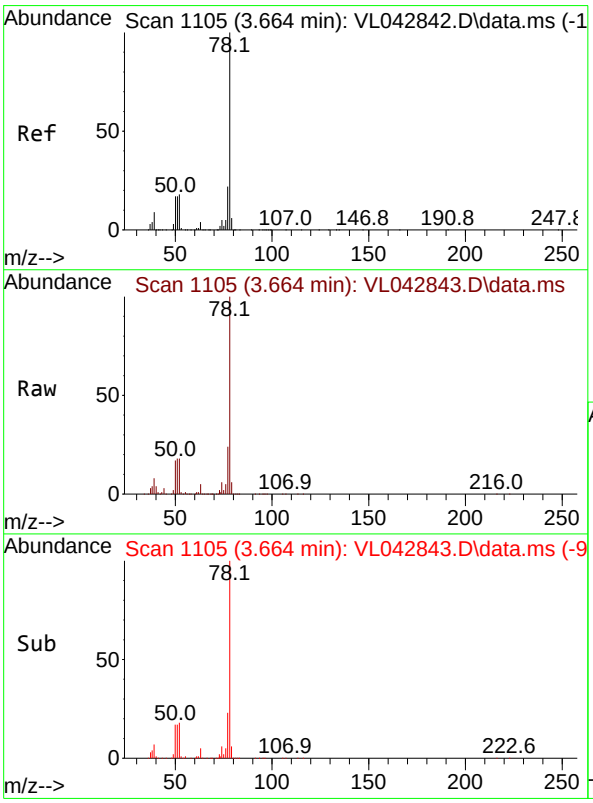
Ion	Ratio	Lower	Upper
117	100		
119	89.9	74.7	112.1
121	28.4	23.2	34.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

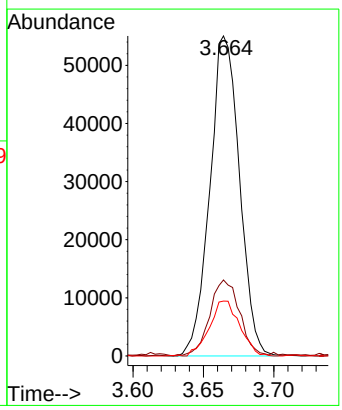
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

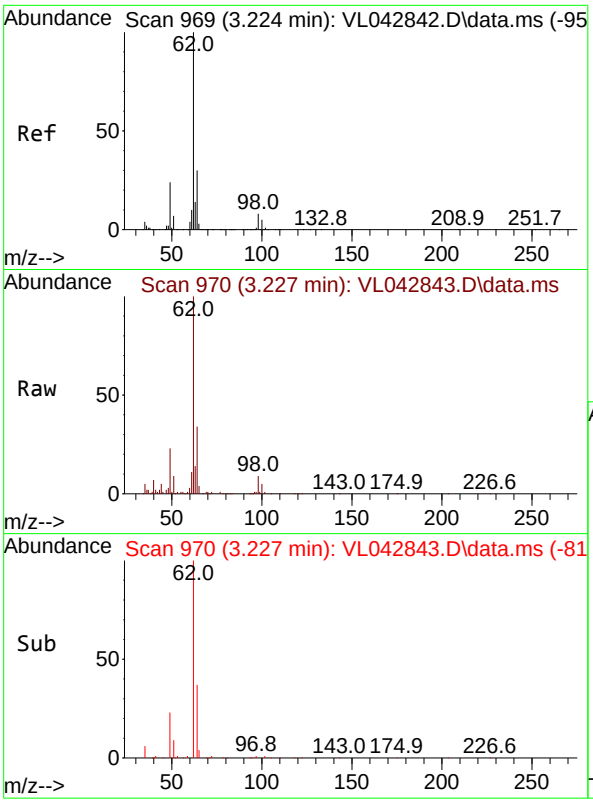


#36
Benzene
Concen: 2.067 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

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

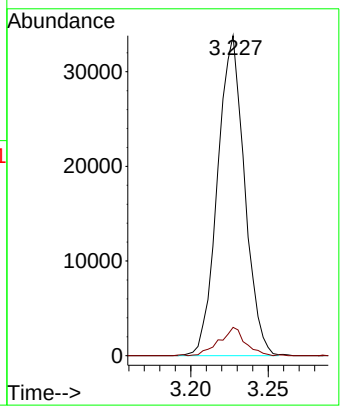




#37
1,2-Dichloroethane
Concen: 2.010 ppbv
RT: 3.227 min Scan# 9
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 62 Resp: 4103

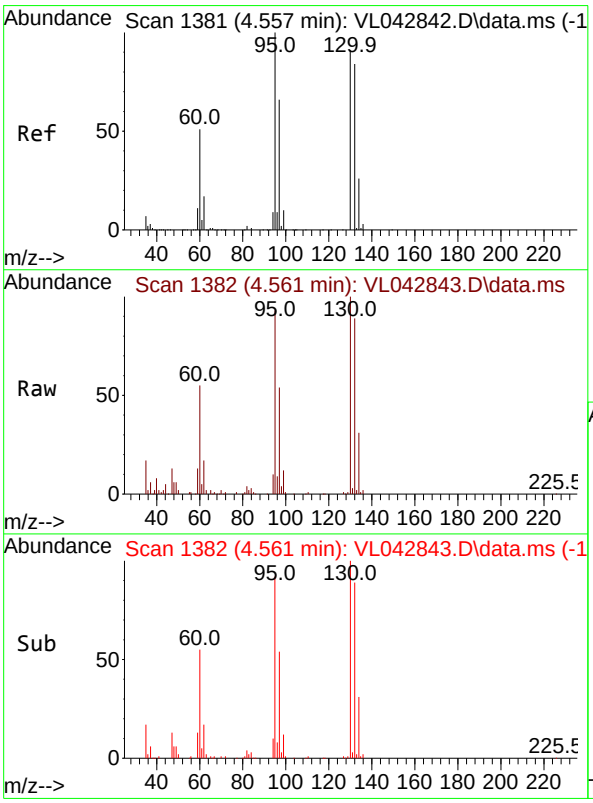
Ion	Ratio	Lower	Upper
62	100		
98	8.6	5.9	8.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

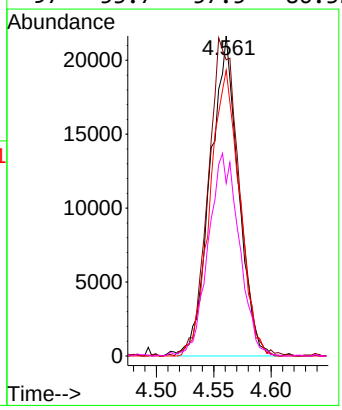
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

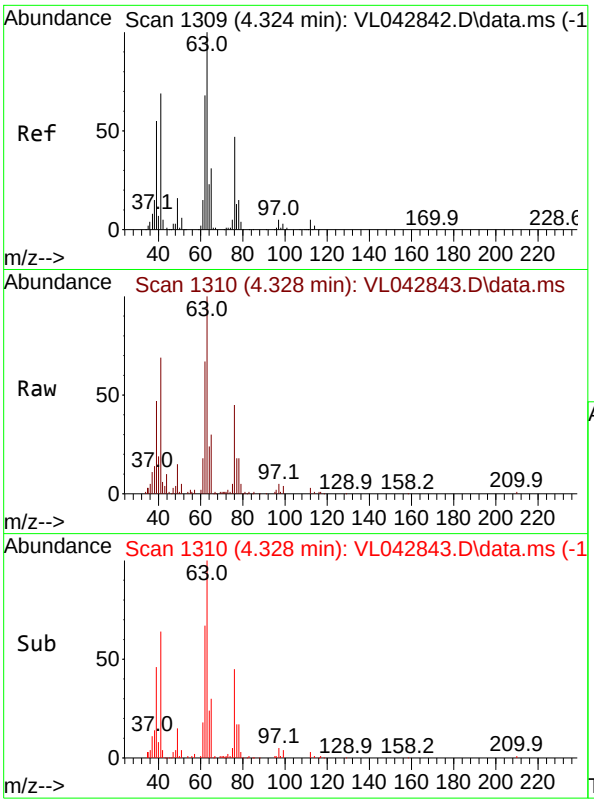


#38
Trichloroethene
Concen: 2.072 ppbv
RT: 4.561 min Scan# 1382
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

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#

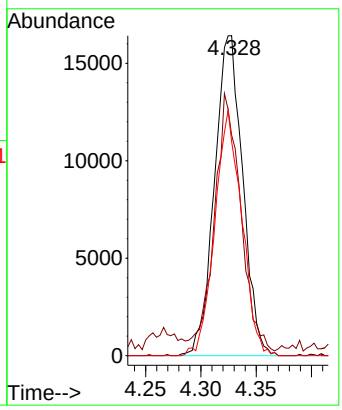




#39
1,2-Dichloropropane
Concen: 2.036 ppbv
RT: 4.328 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 63 Resp: 2905

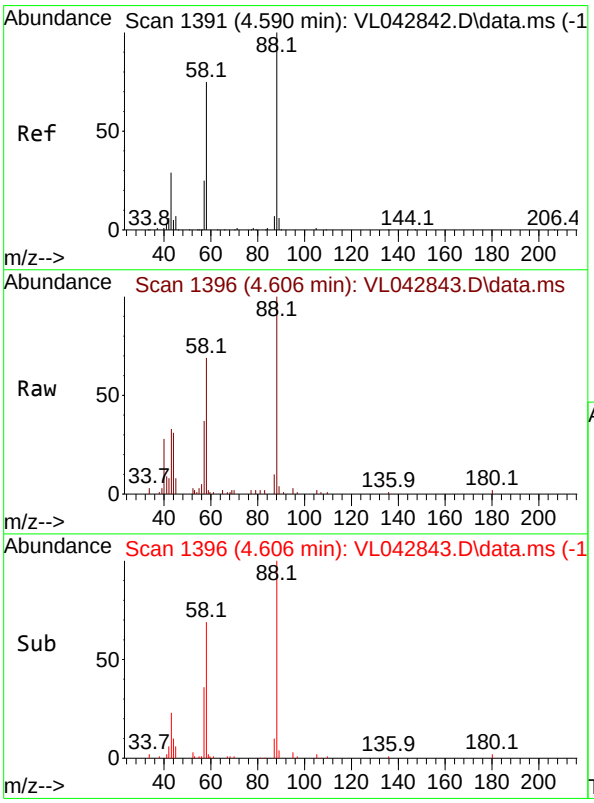
Ion	Ratio	Lower	Upper
63	100		
41	66.8	55.0	82.4
62	66.9	54.4	81.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

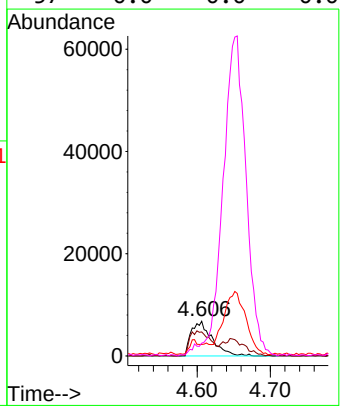
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

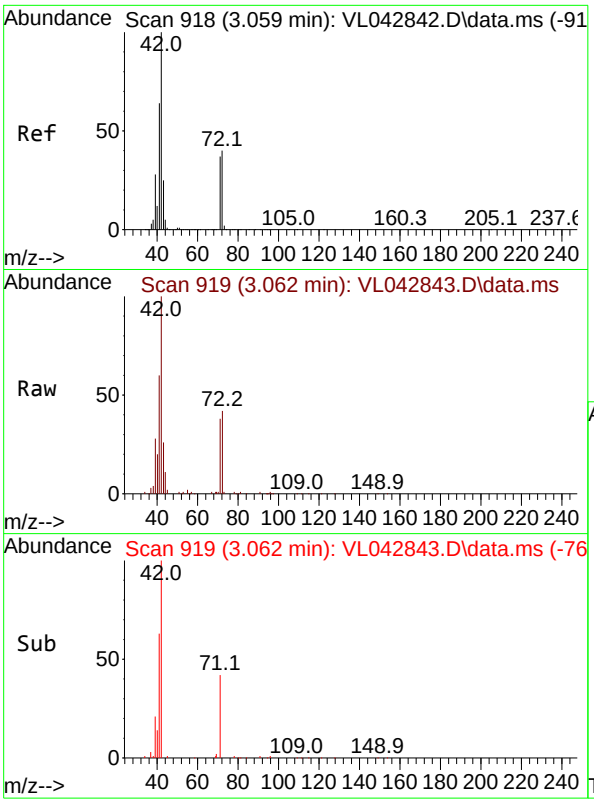


#40
1,4-Dioxane
Concen: 2.022 ppbv m
RT: 4.606 min Scan# 1396
Delta R.T. 0.016 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

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

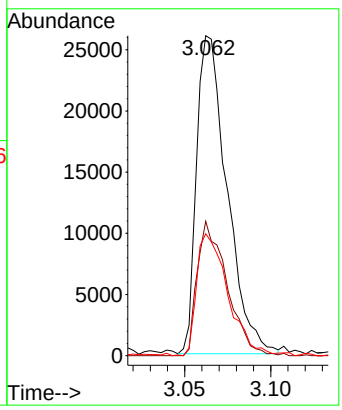




#41
Tetrahydrofuran
Concen: 2.082 ppbv
RT: 3.062 min Scan# 9
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 42 Resp: 3199

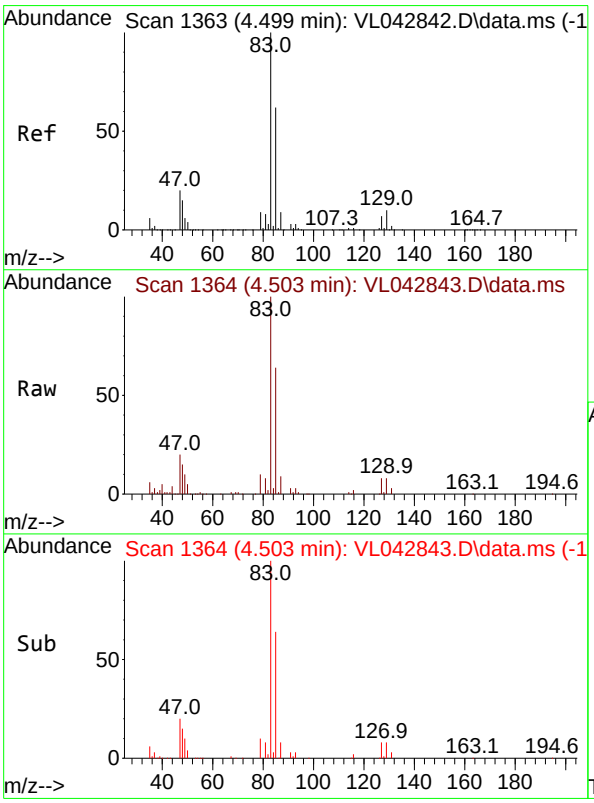
Ion	Ratio	Lower	Upper
42	100		
72	41.3	32.6	48.8
71	40.1	30.0	45.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

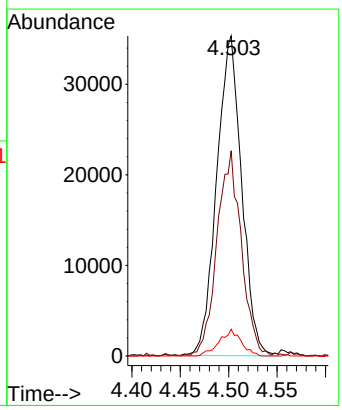
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

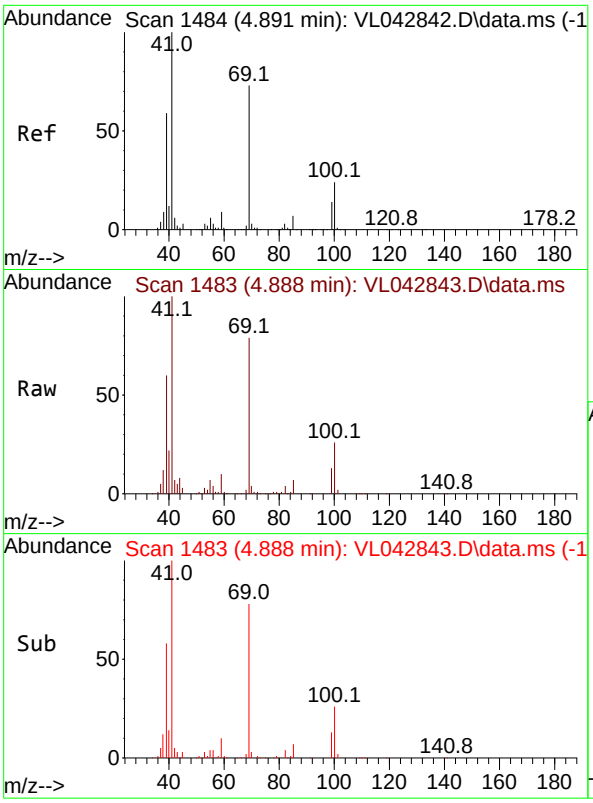


#42
Bromodichloromethane
Concen: 2.085 ppbv
RT: 4.503 min Scan# 1364
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

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

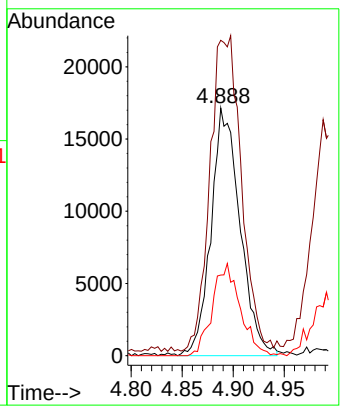




#43
Methyl Methacrylate
Concen: 2.111 ppbv m
RT: 4.888 min Scan# 14
Delta R.T. -0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 69 Resp: 3385

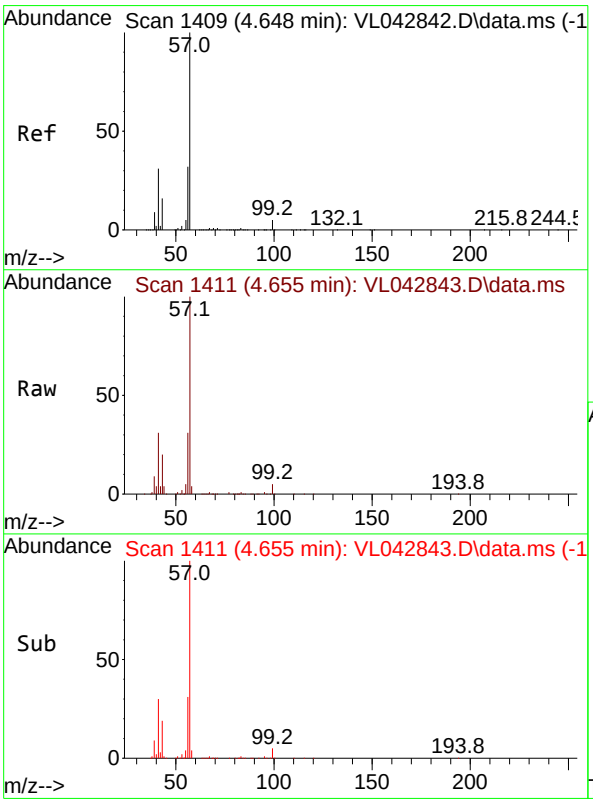
Ion	Ratio	Lower	Upper
69	100		
41	0.0	114.6	172.0#
100	0.0	30.2	45.4#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

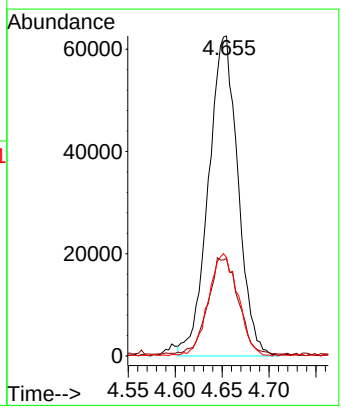
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

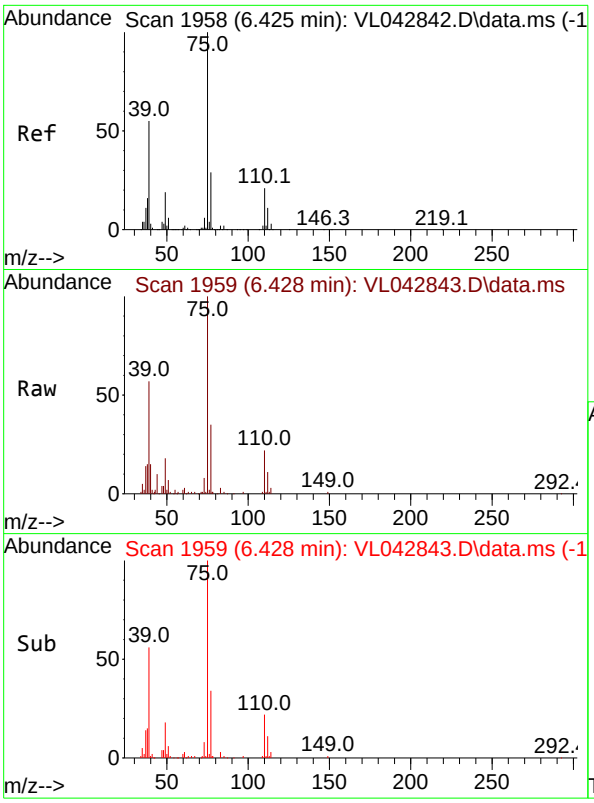


#44
2,2,4-Trimethylpentane
Concen: 2.085 ppbv
RT: 4.655 min Scan# 1411
Delta R.T. 0.007 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

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

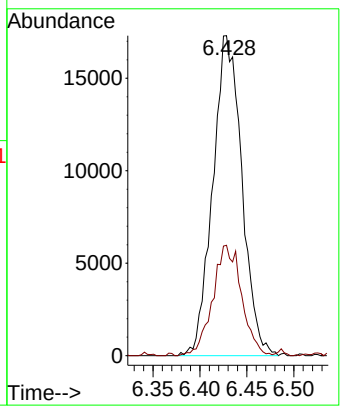




#45
t-1,3-Dichloropropene
Concen: 2.048 ppbv
RT: 6.428 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 75 Resp: 3724

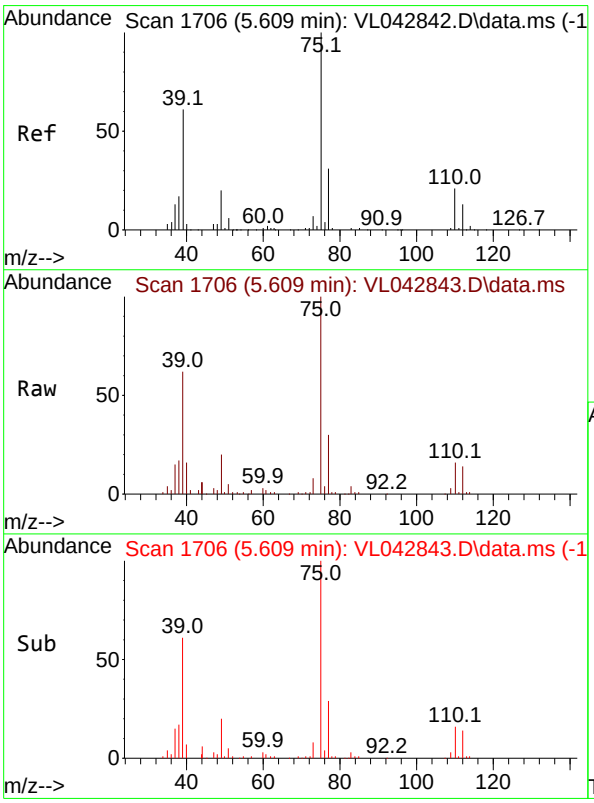
Ion	Ratio	Lower	Upper
75	100		
77	35.2	23.8	35.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

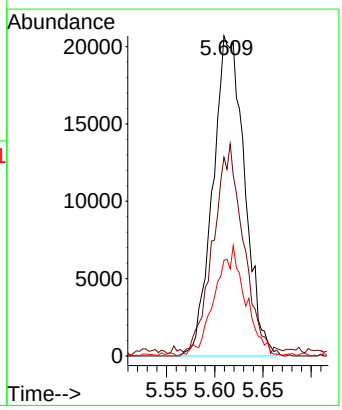
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

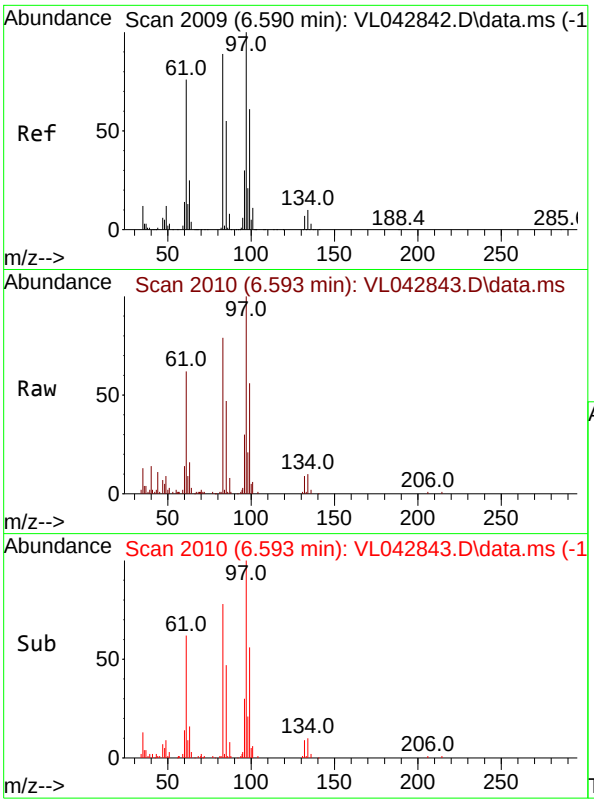


#46
cis-1,3-Dichloropropene
Concen: 2.067 ppbv m
RT: 5.609 min Scan# 1706
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

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

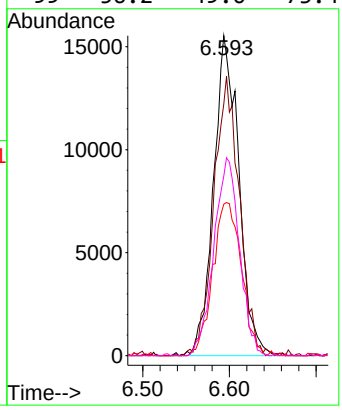




#47
1,1,2-Trichloroethane
Concen: 2.083 ppbv m
RT: 6.593 min Scan# 2(
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 97 Resp: 3147

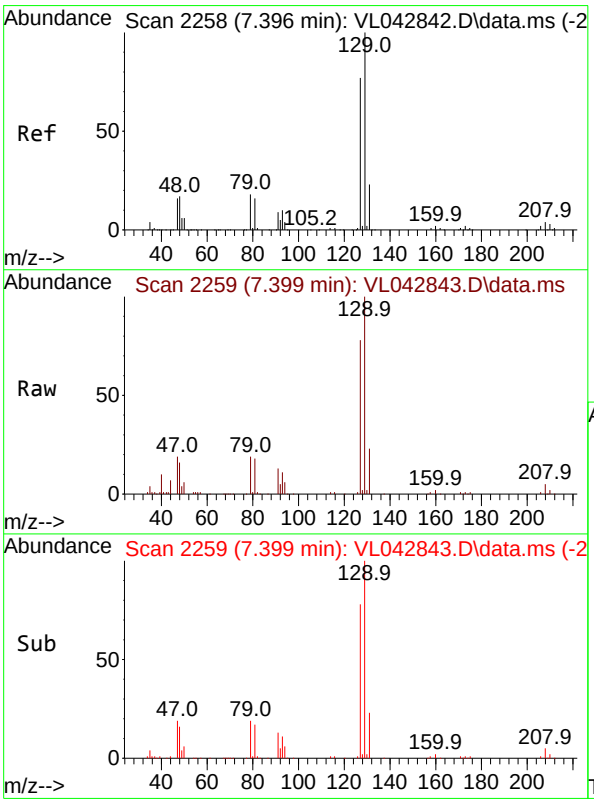
Ion	Ratio	Lower	Upper
97	100		
83	78.7	71.0	106.4
85	47.3	43.6	65.4
99	56.2	49.0	73.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

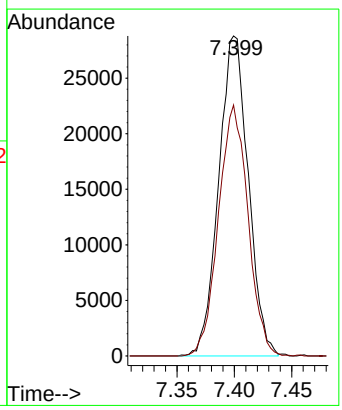
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

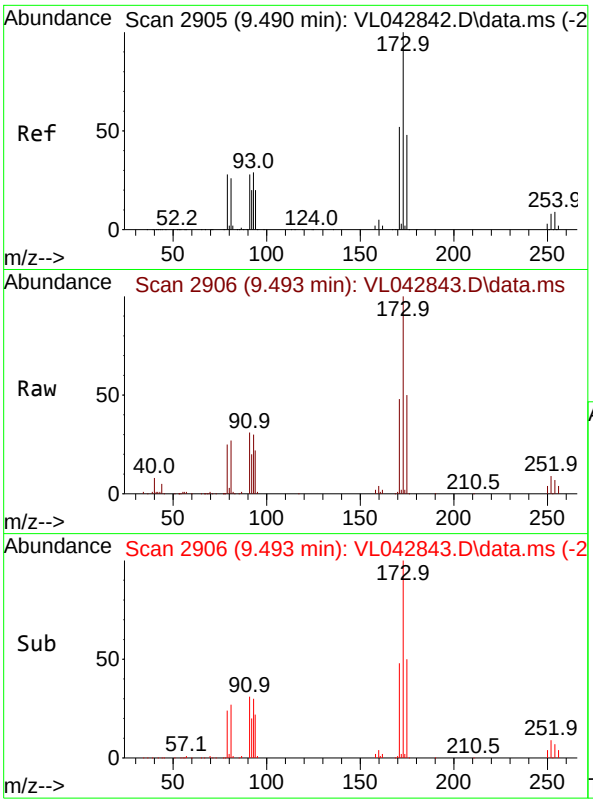


#48
Dibromochloromethane
Concen: 2.109 ppbv
RT: 7.399 min Scan# 2259
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion:129 Resp: 51620

Ion	Ratio	Lower	Upper
129	100		
127	78.4	39.4	118.2

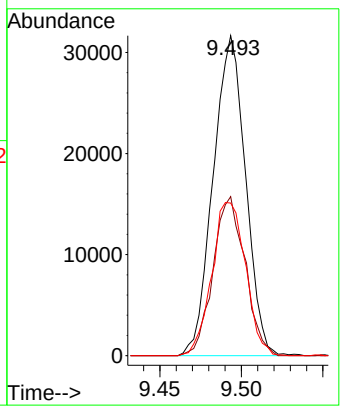




#49
Bromoform
Concen: 2.163 ppbv
RT: 9.493 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion:173 Resp: 4366

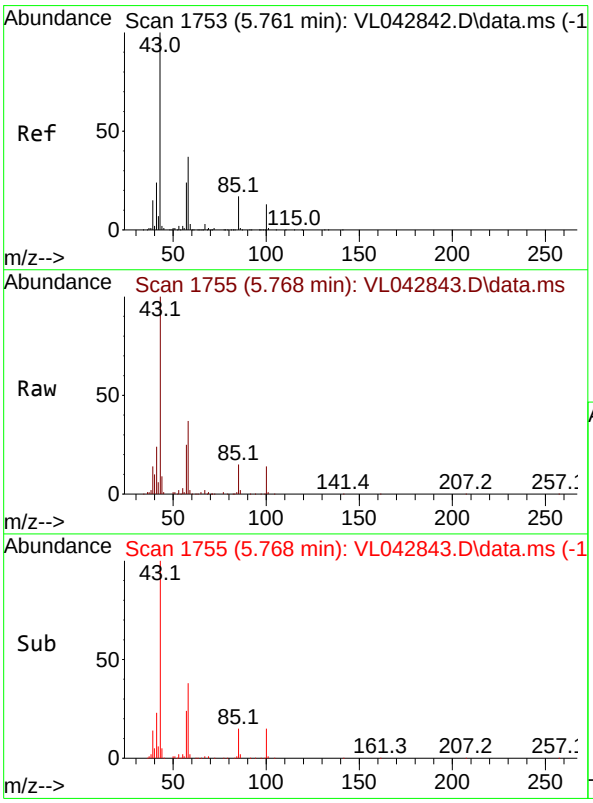
Ion	Ratio	Lower	Upper
173	100		
175	49.1	39.2	58.8
171	50.0	41.3	61.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

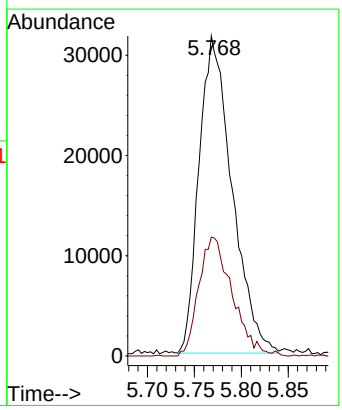
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

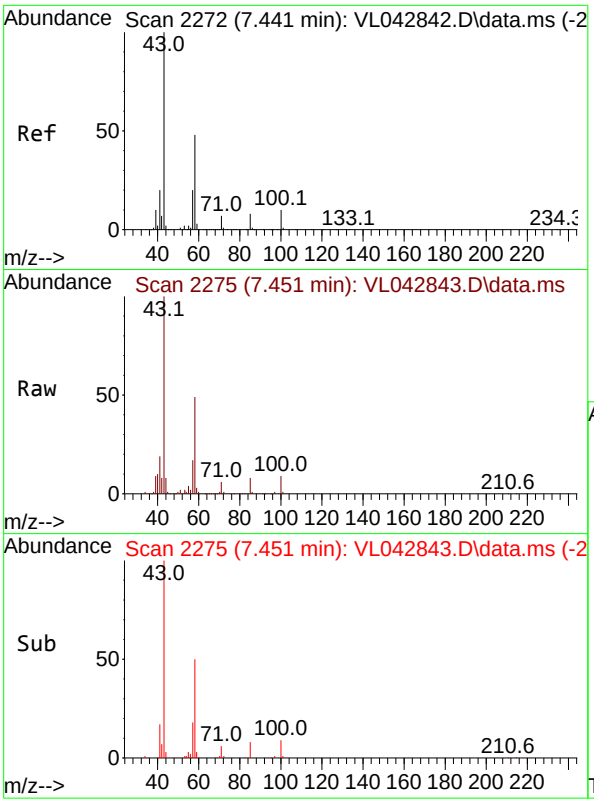


#50
4-Methyl-2-Pentanone
Concen: 2.066 ppbv
RT: 5.768 min Scan# 1755
Delta R.T. 0.007 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

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# 2
Delta R.T. 0.010 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

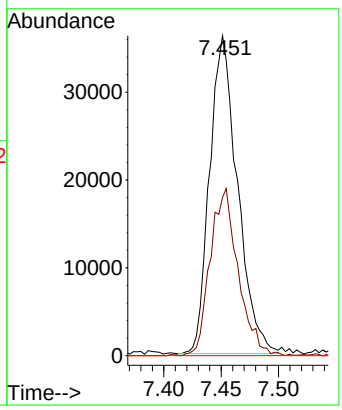
Tgt Ion: 43 Resp: 6121

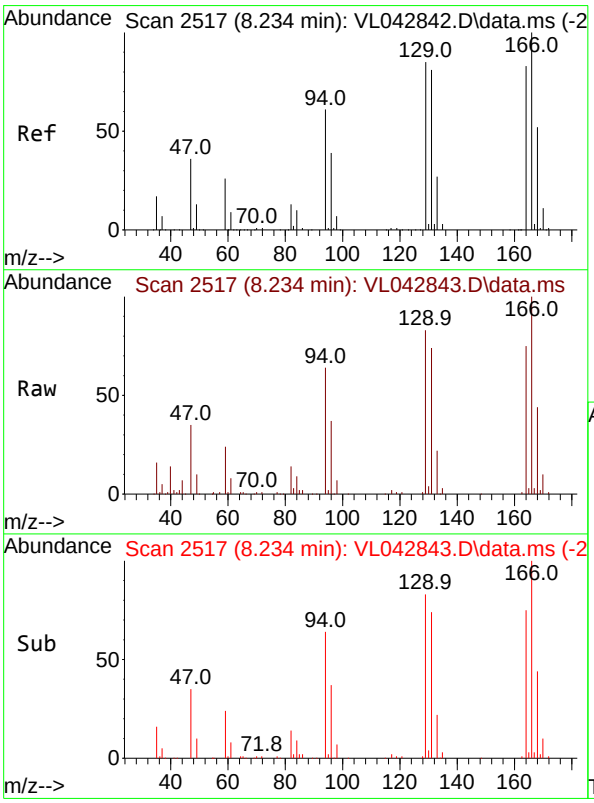
Ion	Ratio	Lower	Upper
43	100		
58	52.9	41.0	61.6
98	0.0	0.1	0.1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

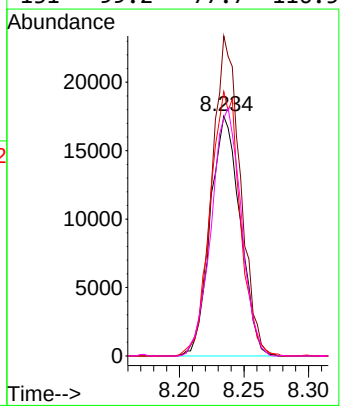


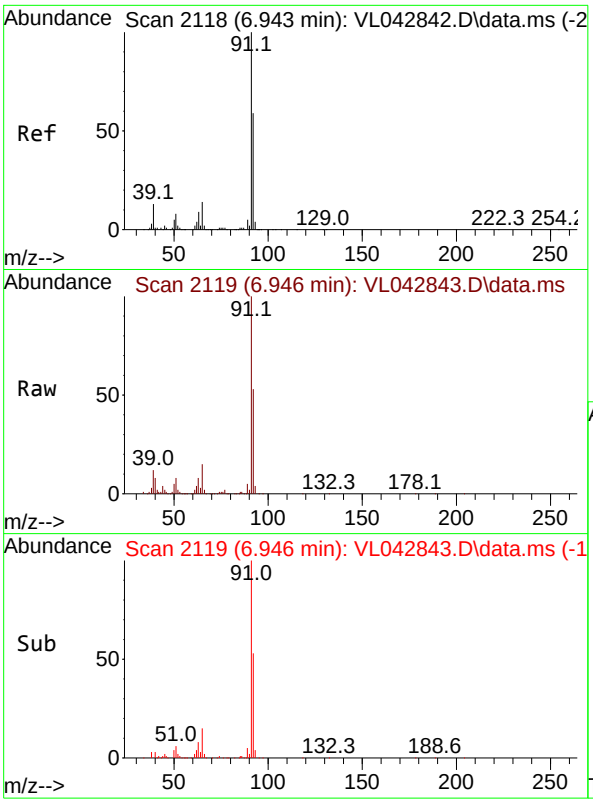


#52
Tetrachloroethene
Concen: 1.990 ppbv
RT: 8.234 min Scan# 2517
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

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

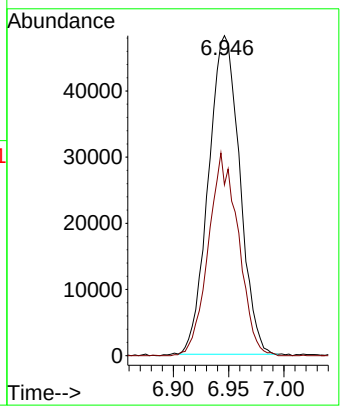




#53
Toluene
Concen: 2.036 ppbv
RT: 6.946 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 91 Resp: 9469

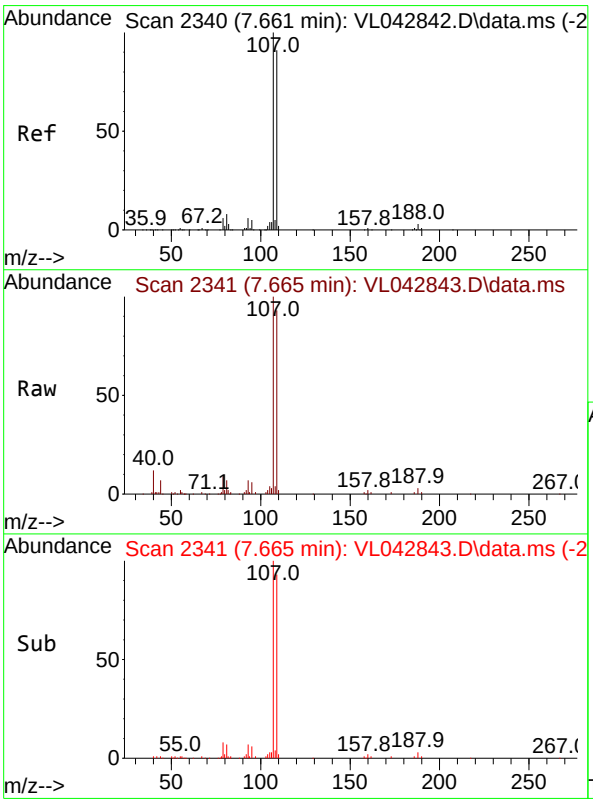
Ion	Ratio	Lower	Upper
91	100		
92	61.1	47.8	71.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

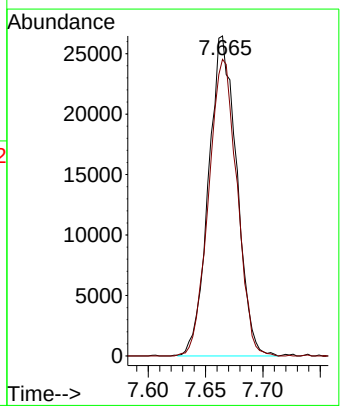
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

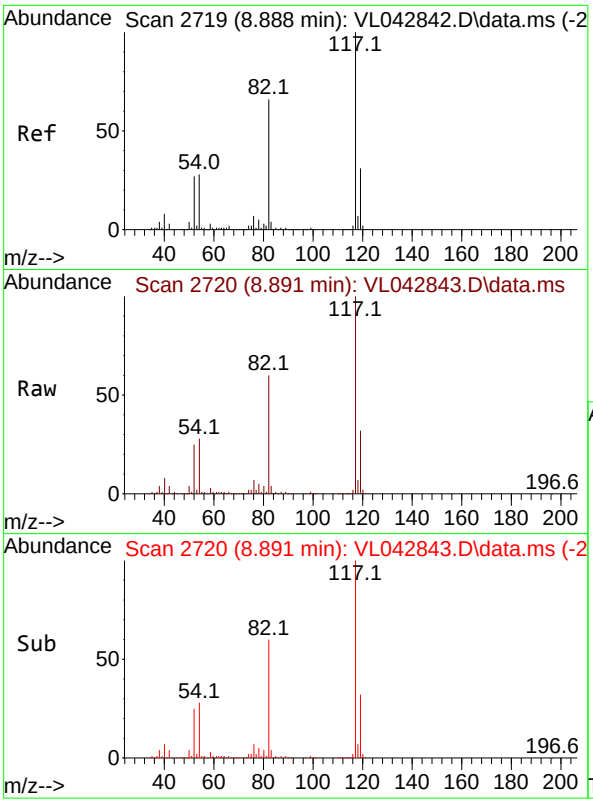


#54
1,2-Dibromoethane
Concen: 2.039 ppbv
RT: 7.665 min Scan# 2341
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion:107 Resp: 45071

Ion	Ratio	Lower	Upper
107	100		
109	92.7	72.5	108.7

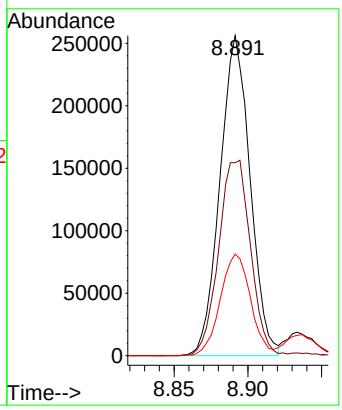




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.891 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion:117 Resp: 36383

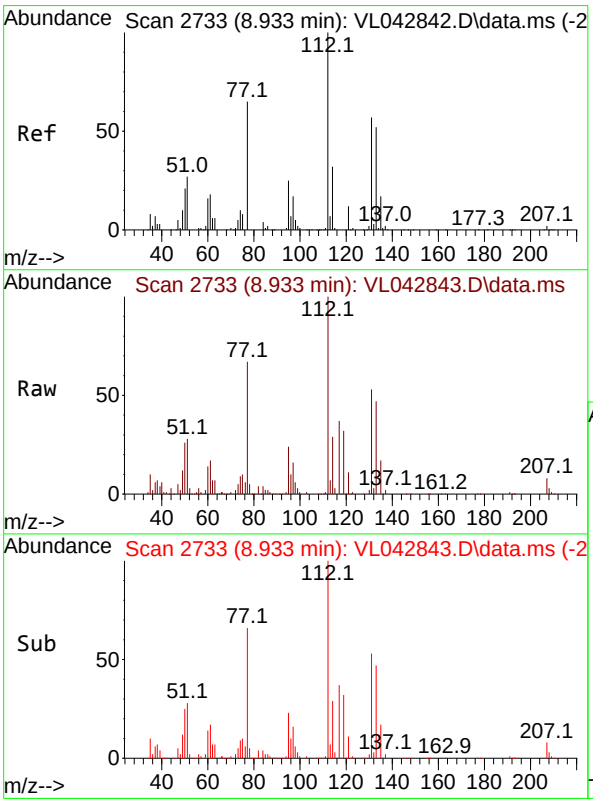
Ion	Ratio	Lower	Upper
117	100		
82	65.4	54.6	81.8
119	32.8	25.9	38.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

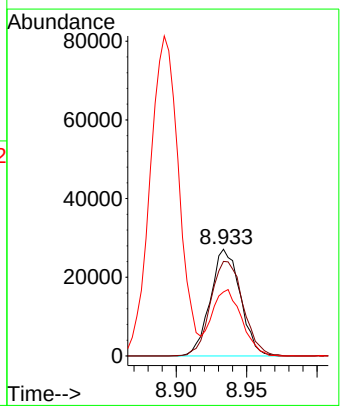
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

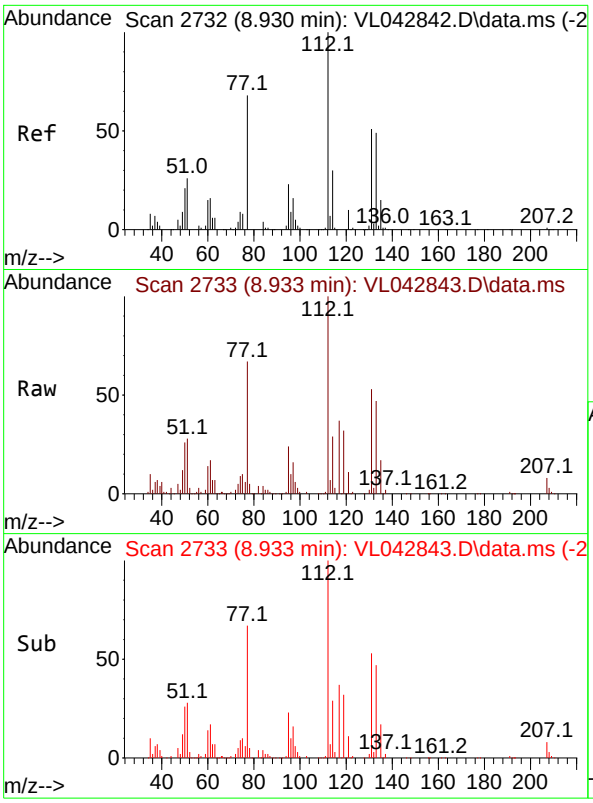


#56
1,1,1,2-Tetrachloroethane
Concen: 2.131 ppbv
RT: 8.933 min Scan# 2733
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

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

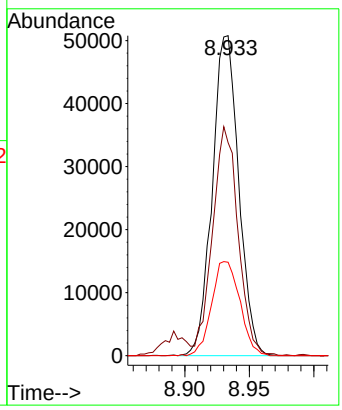




#57
Chlorobenzene
Concen: 2.090 ppbv
RT: 8.933 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion:112 Resp: 7229

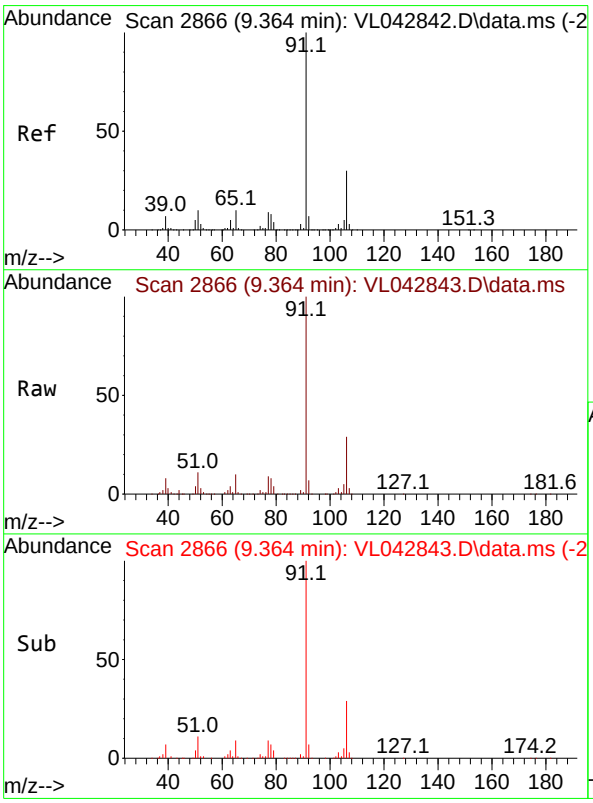
Ion	Ratio	Lower	Upper
112	100		
77	66.4	55.5	83.3
114	29.2	27.2	33.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

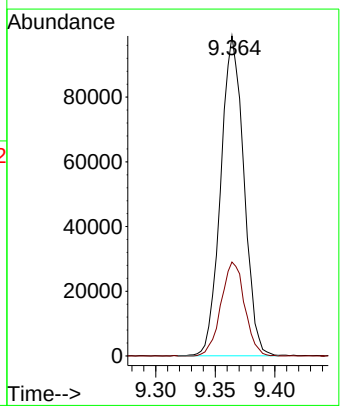
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

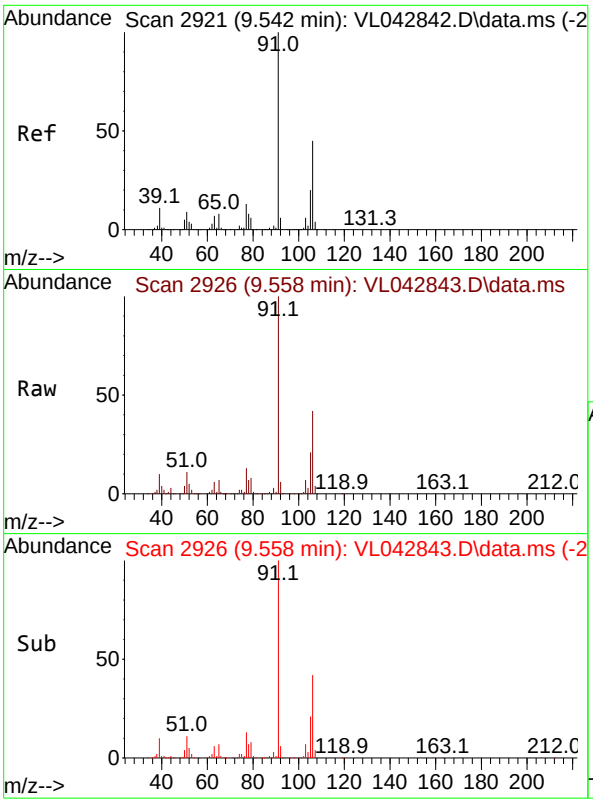


#58
Ethyl Benzene
Concen: 2.083 ppbv
RT: 9.364 min Scan# 2866
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 91 Resp: 133719

Ion	Ratio	Lower	Upper
91	100		
106	29.4	23.9	35.9

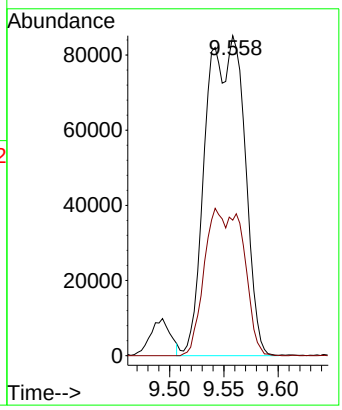




#59
m/p-Xylene
Concen: 4.200 ppbv m
RT: 9.558 min Scan# 2
Delta R.T. 0.016 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 91 Resp: 21170

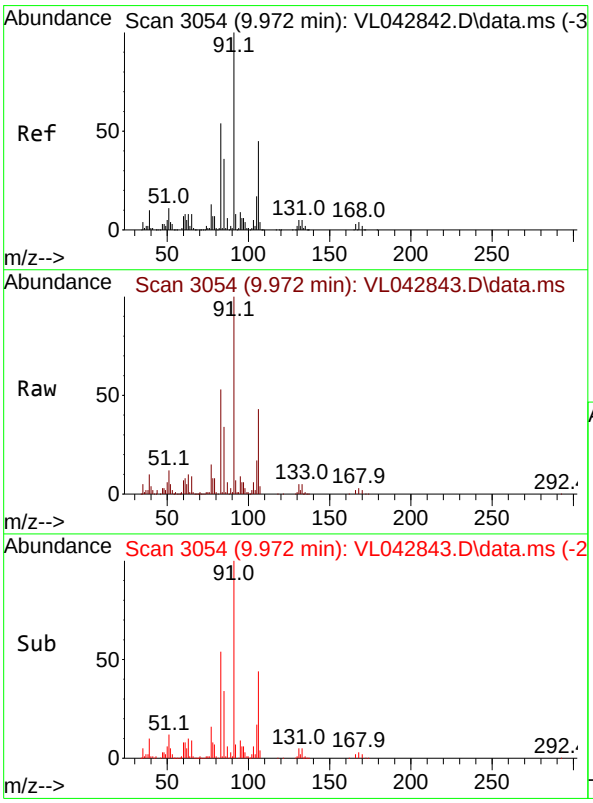
Ion	Ratio	Lower	Upper
91	100		
106	46.1	0.0	0.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

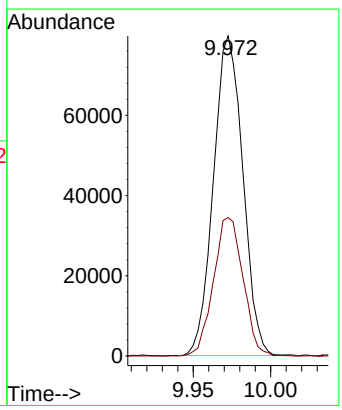
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

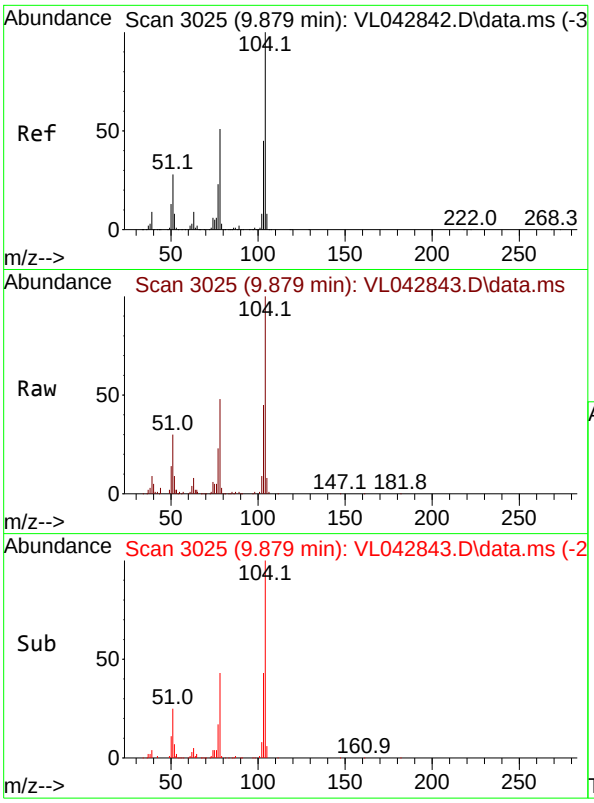


#60
o-Xylene
Concen: 2.077 ppbv
RT: 9.972 min Scan# 3054
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 91 Resp: 105125

Ion	Ratio	Lower	Upper
91	100		
106	43.5	21.8	65.4

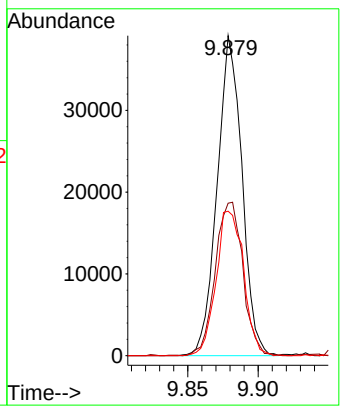




#61
Styrene
Concen: 2.025 ppbv
RT: 9.879 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion:104 Resp: 4802

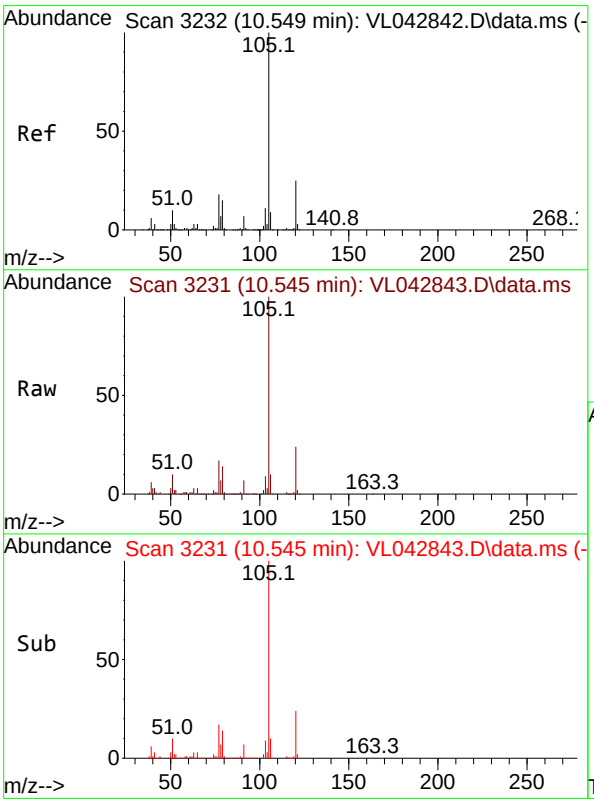
Ion	Ratio	Lower	Upper
104	100		
78	53.4	40.6	61.0
103	50.1	37.7	56.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

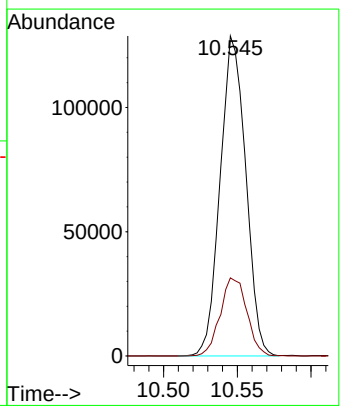
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

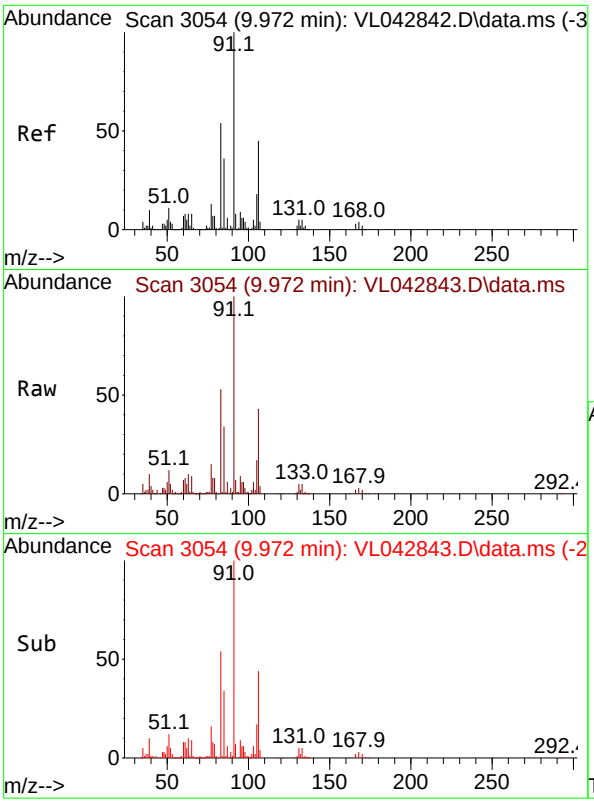


#62
Isopropylbenzene
Concen: 2.098 ppbv
RT: 10.545 min Scan# 3231
Delta R.T. -0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion:105 Resp: 155223

Ion	Ratio	Lower	Upper
105	100		
120	25.5	20.6	30.8

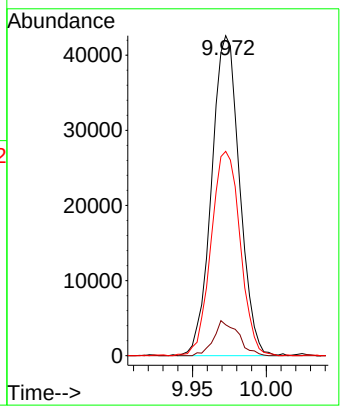




#63
1,1,2,2-Tetrachloroethane
Concen: 2.031 ppbv
RT: 9.972 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 83 Resp: 5613

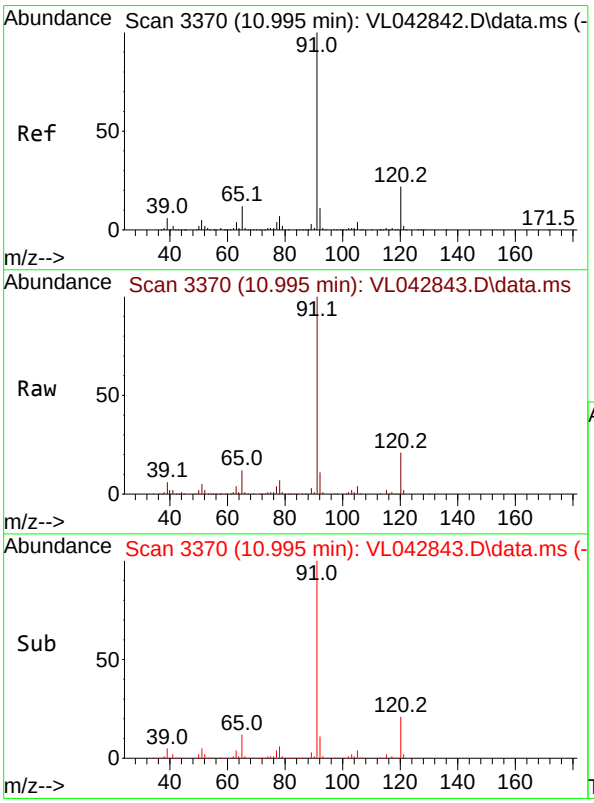
Ion	Ratio	Lower	Upper
83	100		
131	9.7	4.8	14.3
85	66.5	32.3	96.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

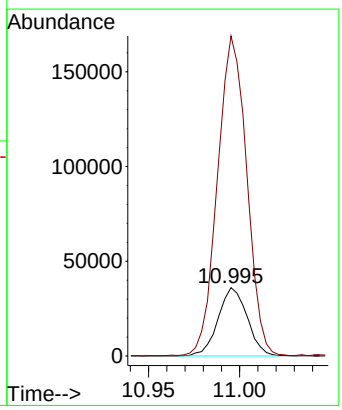
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

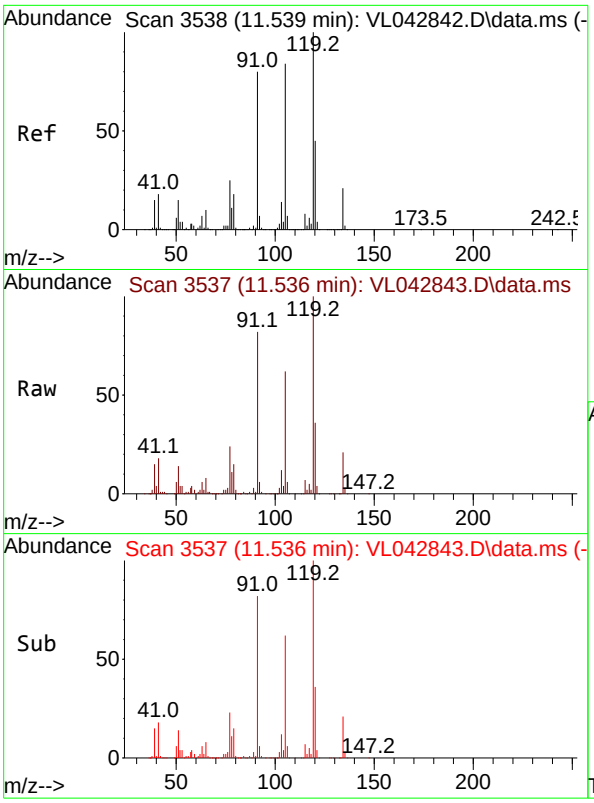


#64
n-propylbenzene
Concen: 2.115 ppbv
RT: 10.995 min Scan# 3370
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion:120 Resp: 39922

Ion	Ratio	Lower	Upper
120	100		
91	476.7	375.8	563.6

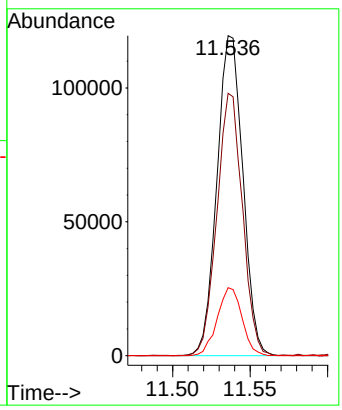




#65
tert-Butylbenzene
Concen: 2.132 ppbv
RT: 11.536 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion:119 Resp: 13901

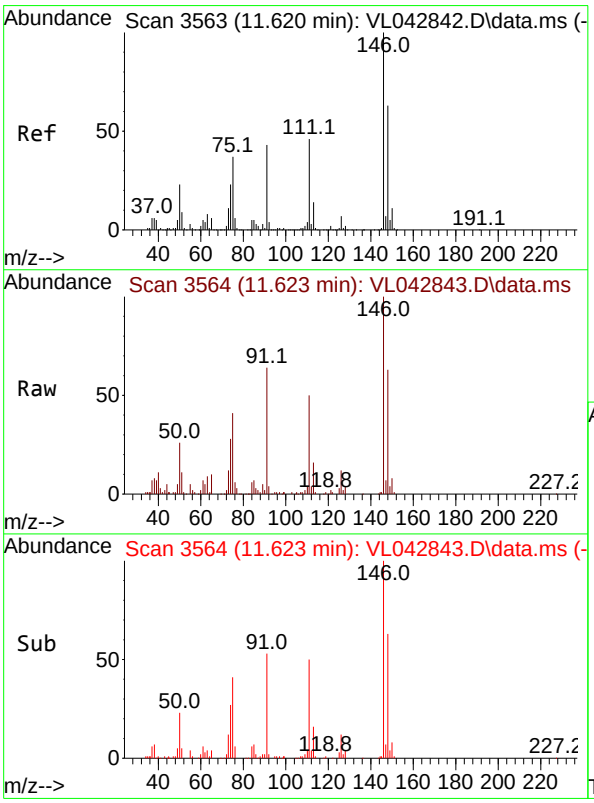
Ion	Ratio	Lower	Upper
119	100		
91	80.9	63.9	95.9
134	20.3	17.0	25.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

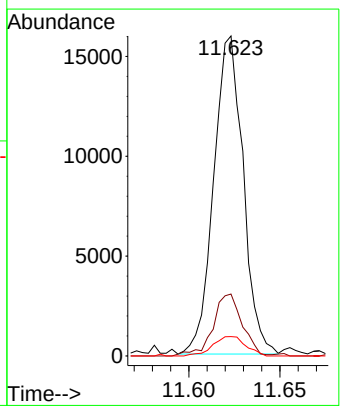
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

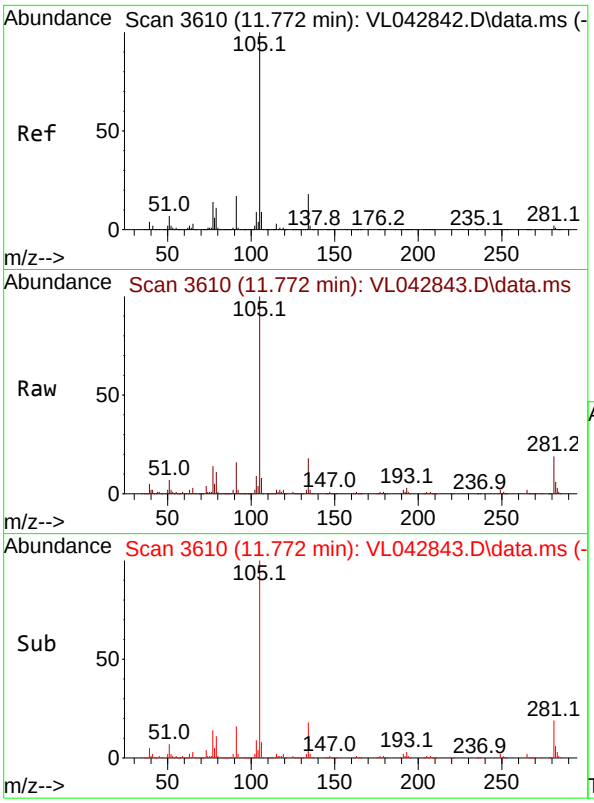


#66
Benzyl Chloride
Concen: 2.161 ppbv
RT: 11.623 min Scan# 3564
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

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

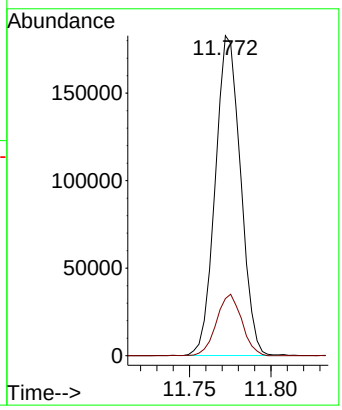




#67
sec-Butylbenzene
Concen: 2.151 ppbv
RT: 11.772 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion:105 Resp: 19689

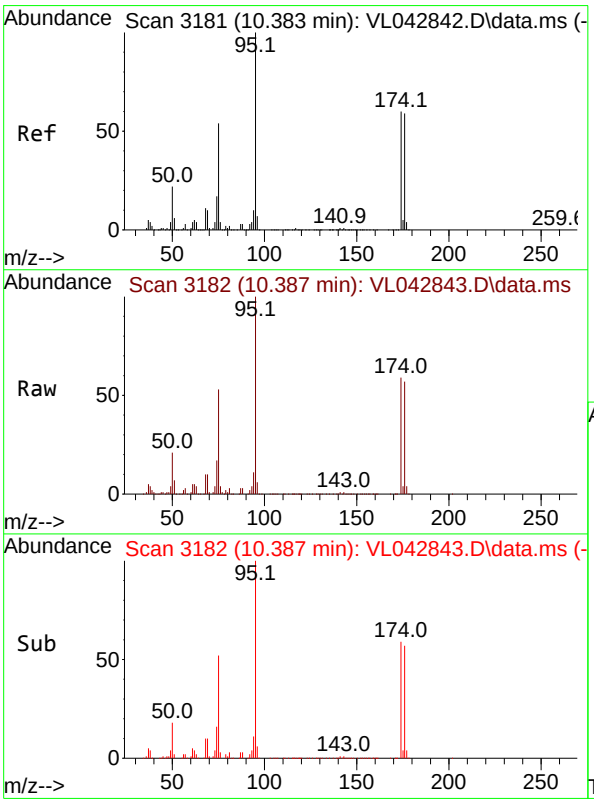
Ion	Ratio	Lower	Upper
105	100		
134	19.3	14.9	22.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

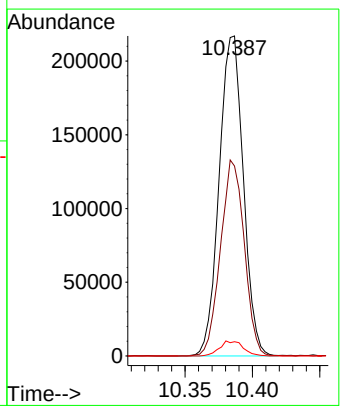
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

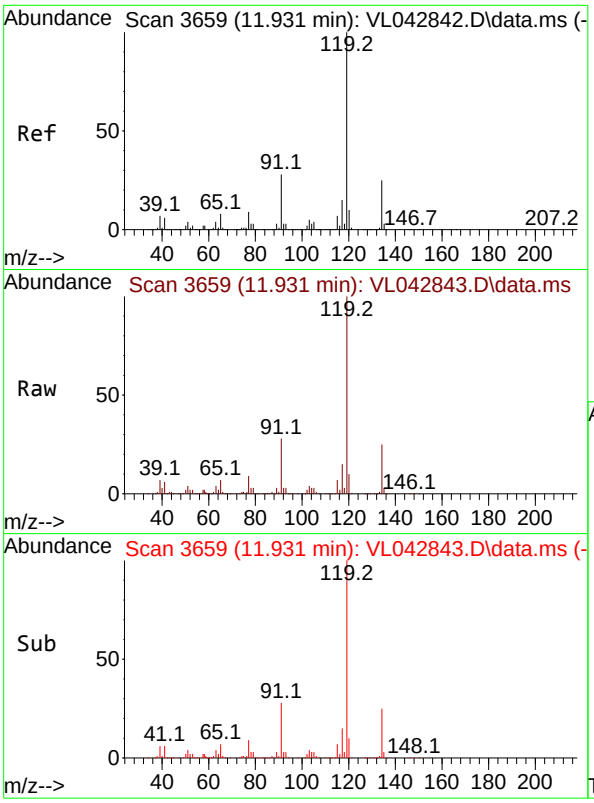


#68
1-Bromo-4-Fluorobenzene
Concen: 9.923 ppbv
RT: 10.387 min Scan# 3182
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

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

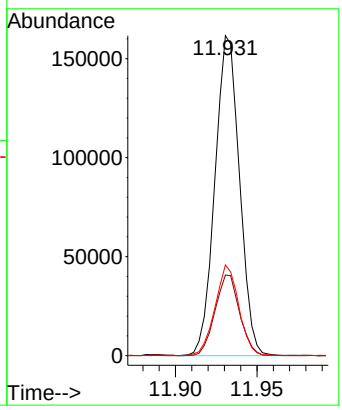




#69
p-Isopropyltoluene
Concen: 2.156 ppbv
RT: 11.931 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion:119 Resp: 16942

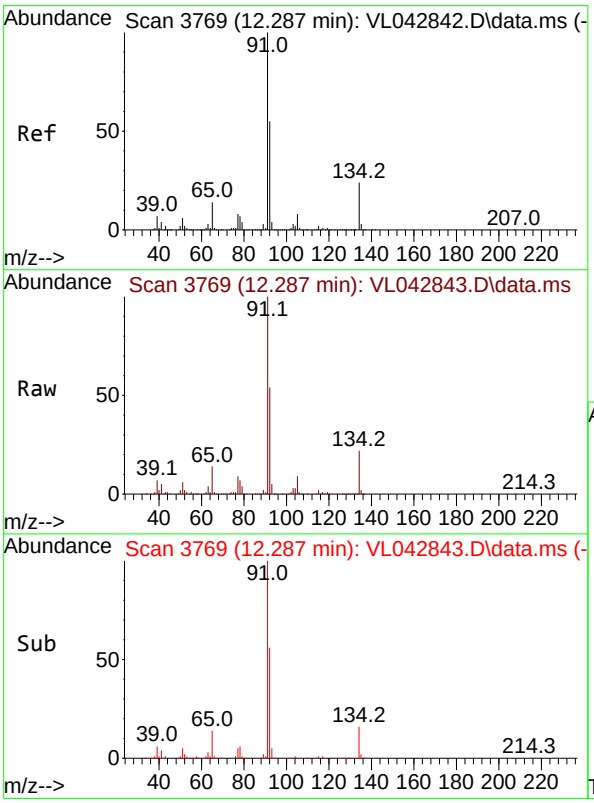
Ion	Ratio	Lower	Upper
119	100		
134	25.3	20.6	30.8
91	27.4	22.6	34.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

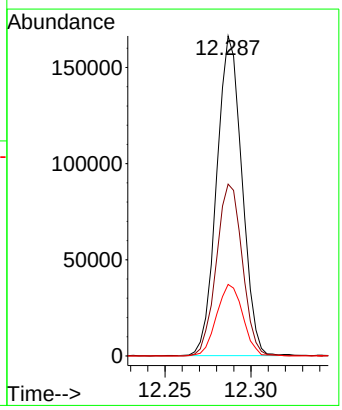
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

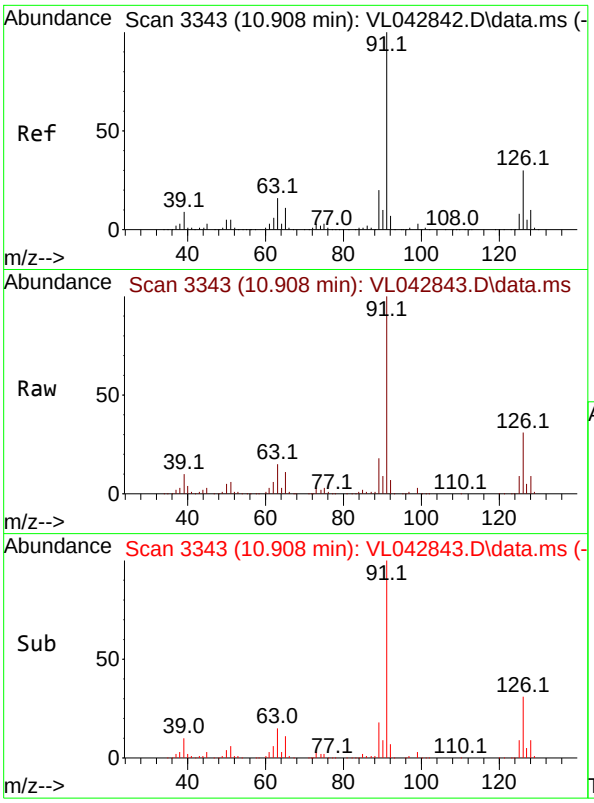


#70
n-Butylbenzene
Concen: 2.178 ppbv
RT: 12.287 min Scan# 3769
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

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

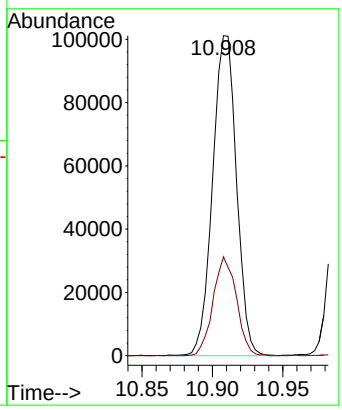




#71
2-Chlorotoluene
Concen: 2.078 ppbv
RT: 10.908 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 91 Resp: 11938

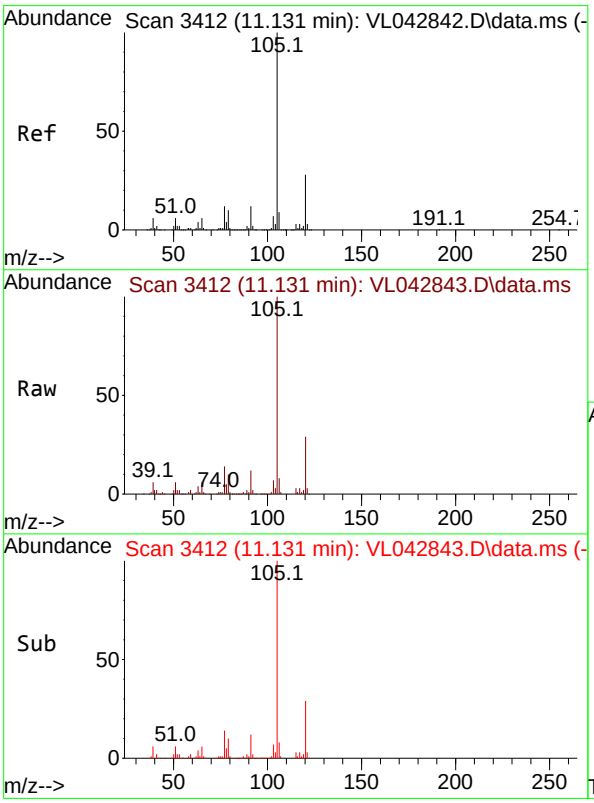
Ion	Ratio	Lower	Upper
91	100		
126	30.2	12.0	47.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

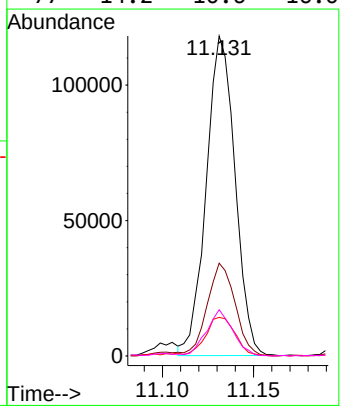
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

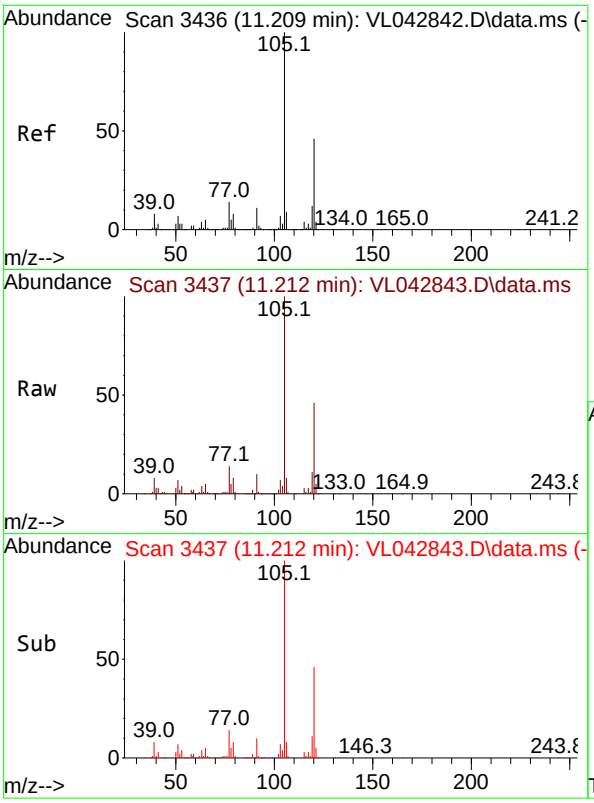


#72
4-Ethyltoluene
Concen: 2.115 ppbv
RT: 11.131 min Scan# 3412
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

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

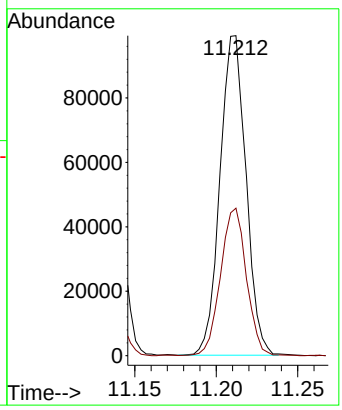




#73
1,3,5-Trimethylbenzene
Concen: 2.109 ppbv
RT: 11.212 min Scan# 34
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion:105 Resp: 11004

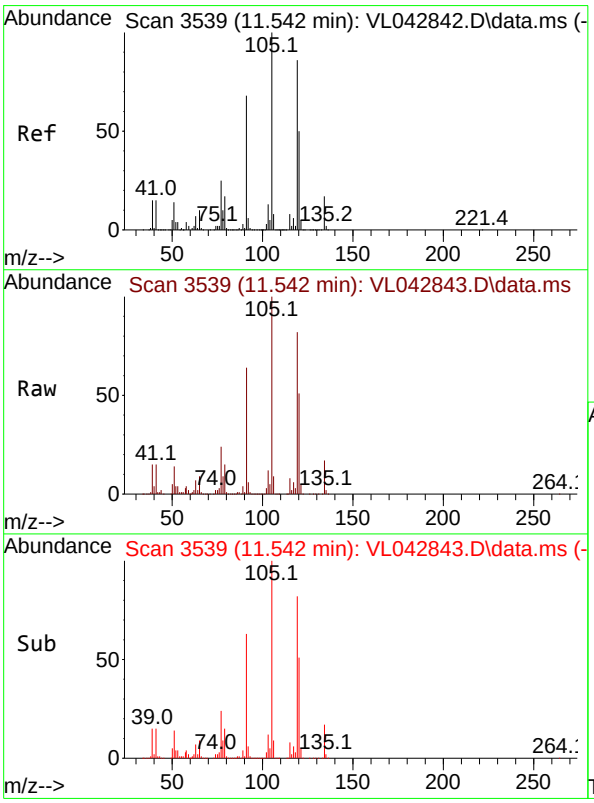
Ion	Ratio	Lower	Upper
105	100		
120	46.1	36.6	54.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

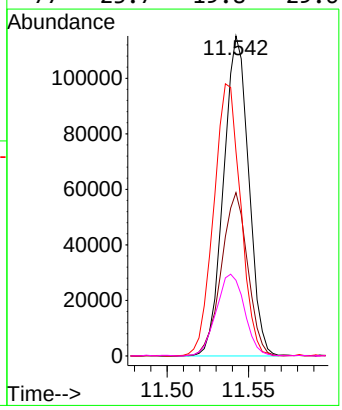
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

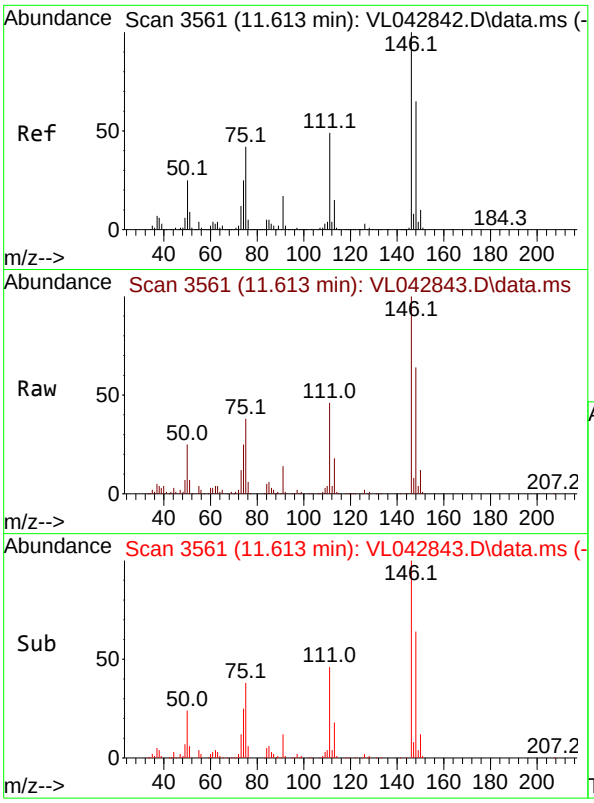


#74
1,2,4-Trimethylbenzene
Concen: 2.157 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

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

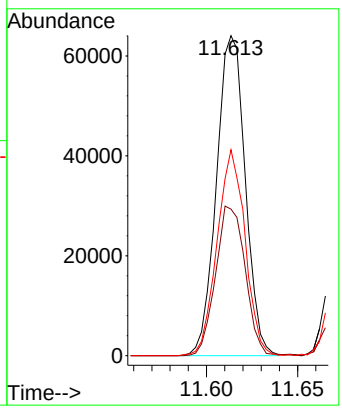




#75
1,3-Dichlorobenzene
Concen: 2.160 ppbv
RT: 11.613 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion:146 Resp: 7033

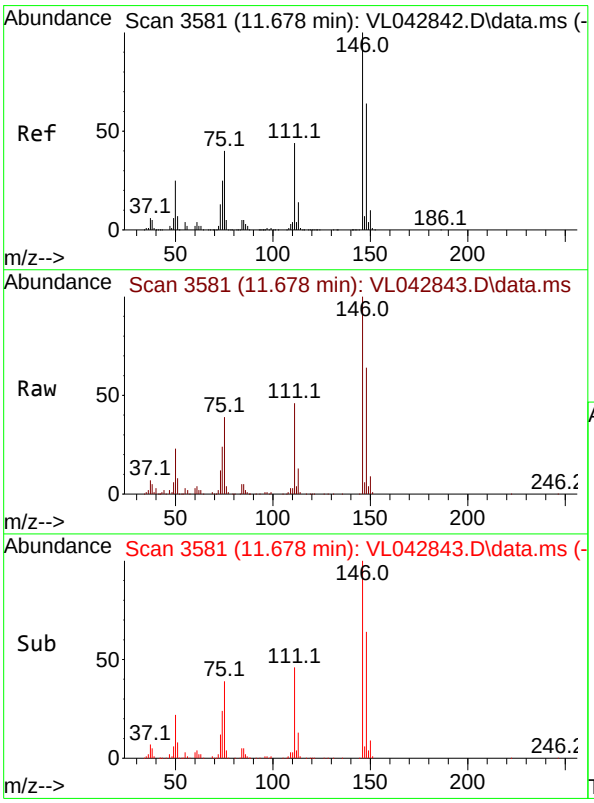
Ion	Ratio	Lower	Upper
146	100		
111	48.0	23.9	71.7
148	62.5	31.4	94.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

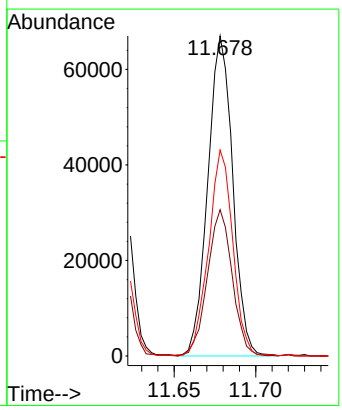
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

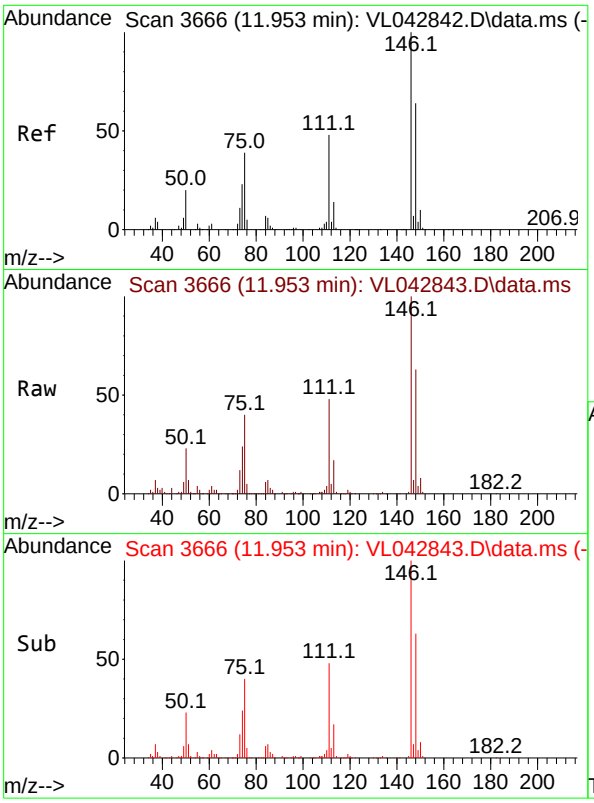


#76
1,4-Dichlorobenzene
Concen: 2.161 ppbv
RT: 11.678 min Scan# 3581
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

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

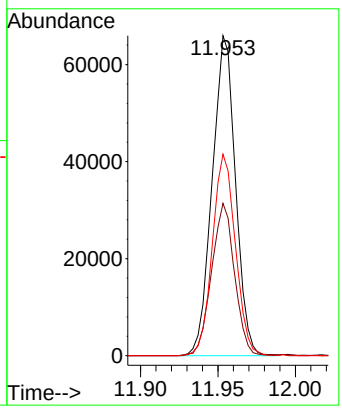




#77
1,2-Dichlorobenzene
Concen: 2.162 ppbv
RT: 11.953 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion:146 Resp: 6894

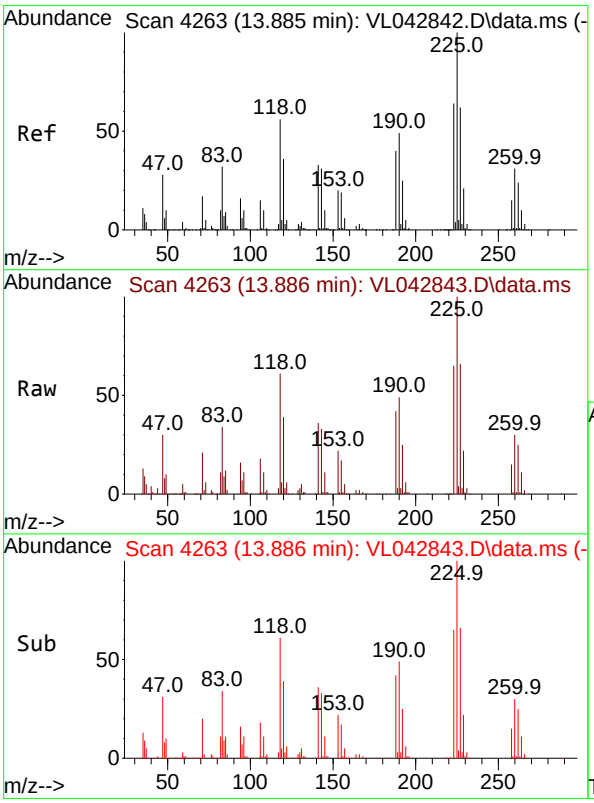
Ion	Ratio	Lower	Upper
146	100		
111	47.1	24.6	74.0
148	62.5	32.0	96.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

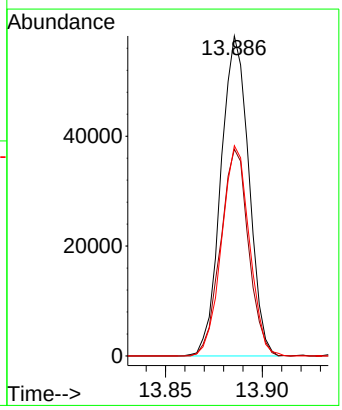
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

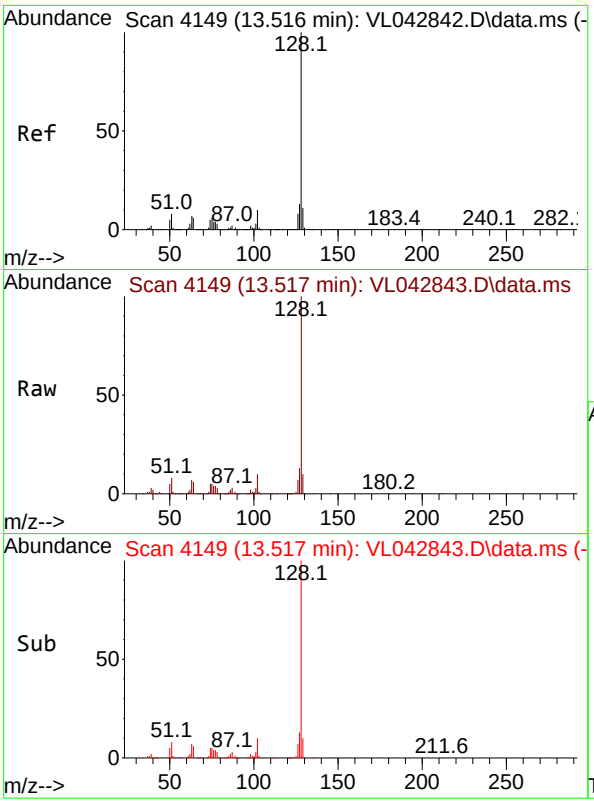


#78
Hexachloro-1,3-Butadiene
Concen: 2.239 ppbv
RT: 13.886 min Scan# 4263
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

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

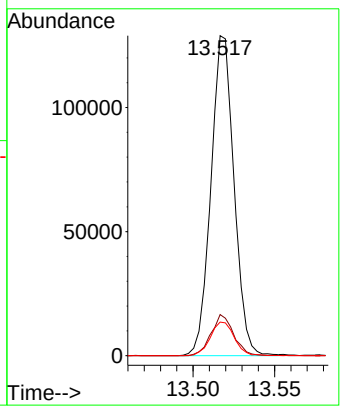




#79
Naphthalene
Concen: 2.478 ppbv
RT: 13.517 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion:128 Resp: 12702

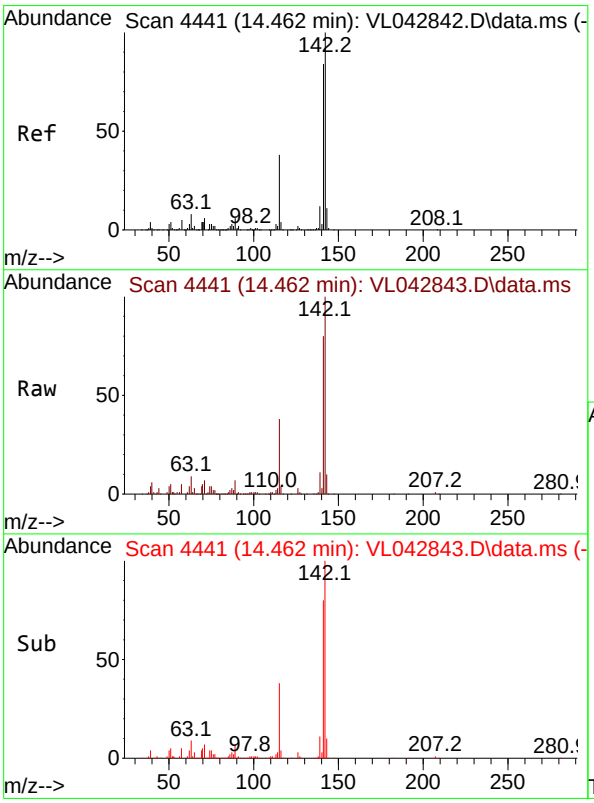
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.6	16.0
129	10.5	8.9	13.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

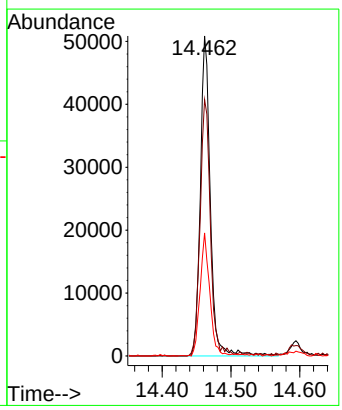
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

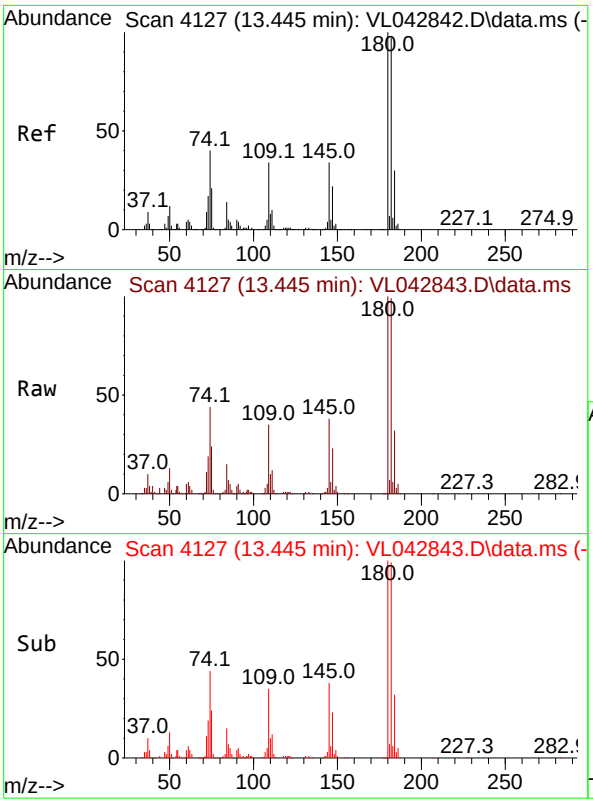


#80
Naphthalene,2-methyl-
Concen: 2.670 ppbv
RT: 14.462 min Scan# 4441
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

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

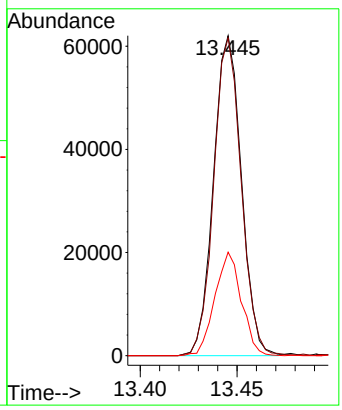




#81
1,2,4-Trichlorobenzene
Concen: 2.384 ppbv
RT: 13.445 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion:180 Resp: 6221

Ion	Ratio	Lower	Upper
180	100		
182	98.0	76.9	115.3
184	30.8	24.5	36.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

Quantitation Report (QT Reviewed)

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

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 1
QLast Update : Thu Aug 14 01:44:36 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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	2.791	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

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 1
QLast Update : Thu Aug 14 01:44:36 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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)
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

Quantitation Report (QT Reviewed)

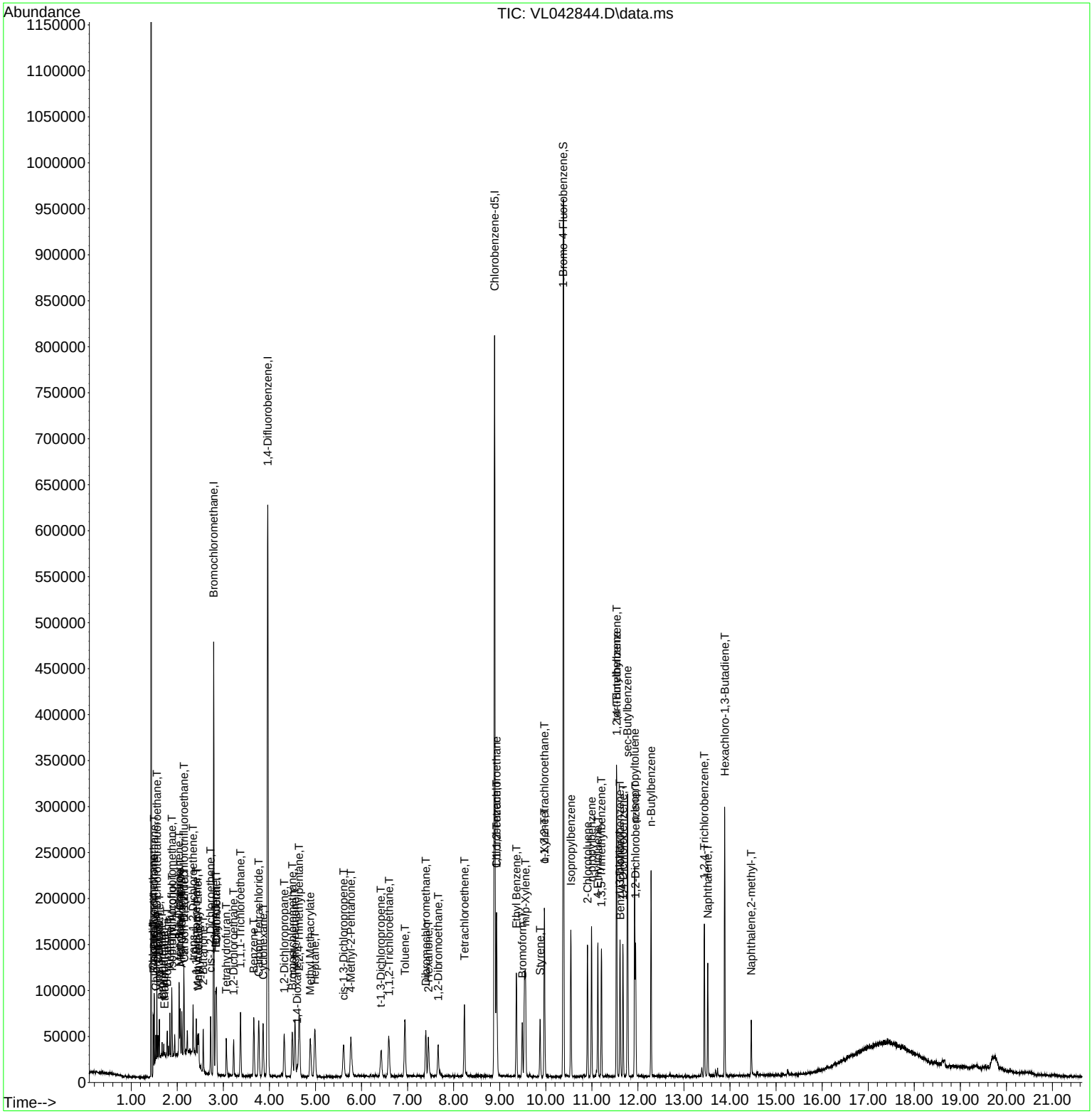
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
Data File : VL042844.D
Acq On : 13 Aug 2025 09:41
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

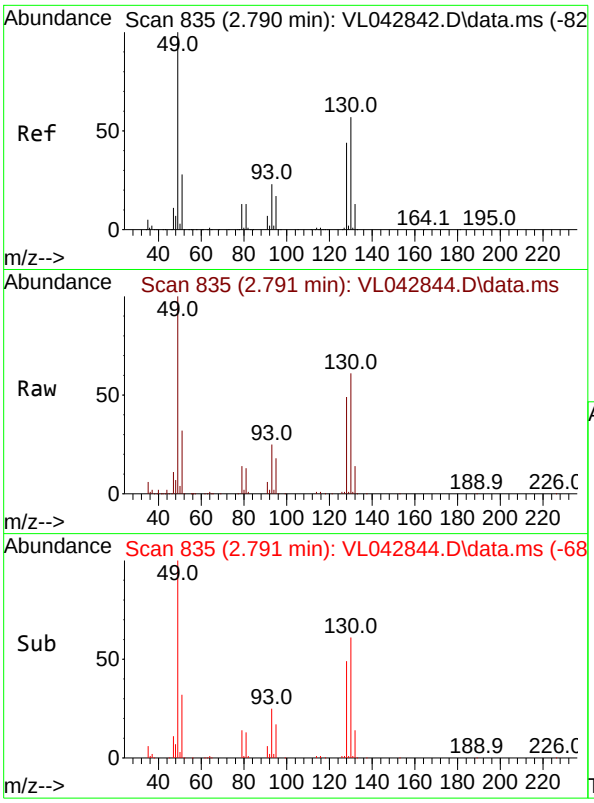
Quant Time: Aug 14 01:47:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Aug 14 01:44:36 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

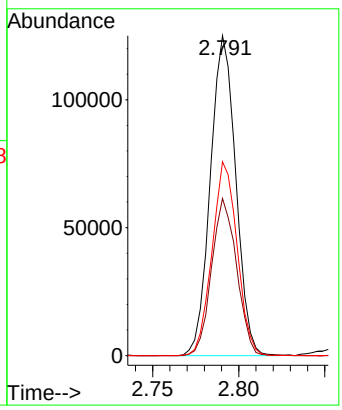




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.791 min Scan# 8
Delta R.T. 0.001 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 49 Resp: 12854

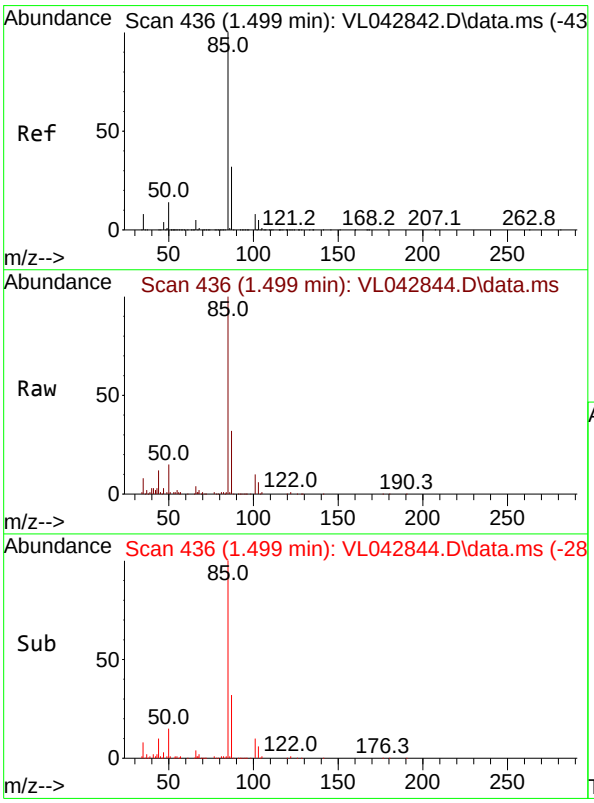
Ion	Ratio	Lower	Upper
49	100		
128	48.4	23.7	71.1
130	59.9	30.6	91.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

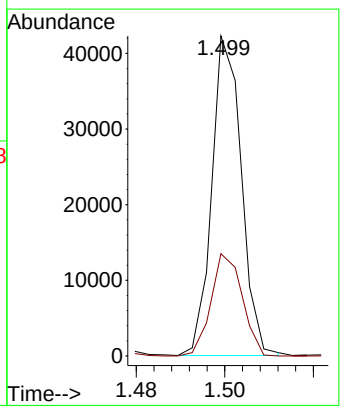
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

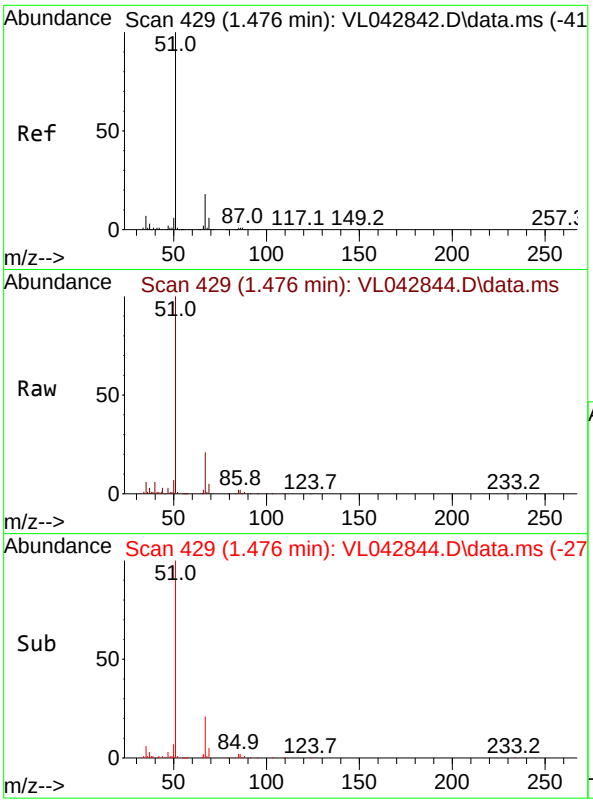


#2
Dichlorodifluoromethane
Concen: 1.041 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 85 Resp: 19603

Ion	Ratio	Lower	Upper
85	100		
87	32.0	25.3	37.9

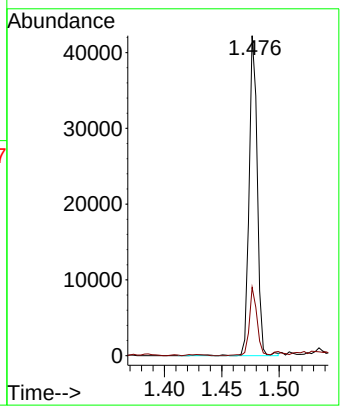




#3
Chlorodifluoromethane
Concen: 0.999 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 51 Resp: 2083

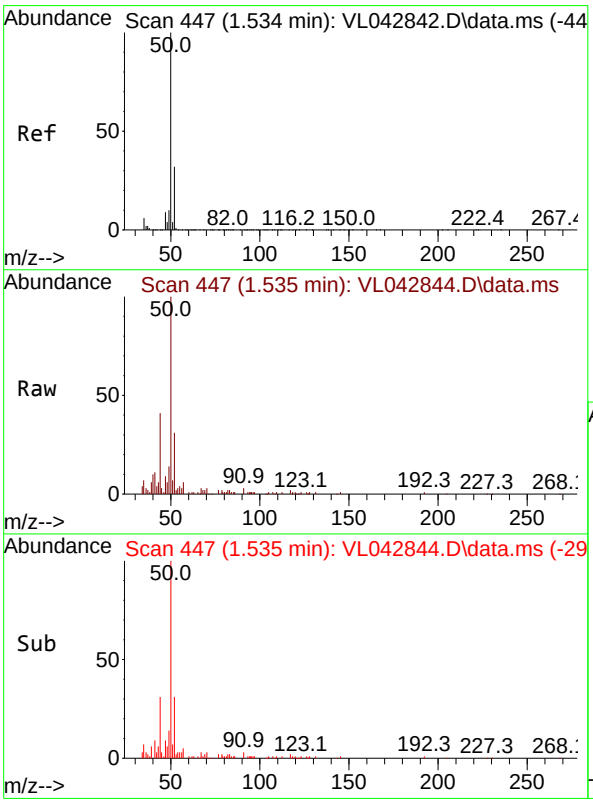
Ion	Ratio	Lower	Upper
51	100		
67	21.9	14.9	22.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
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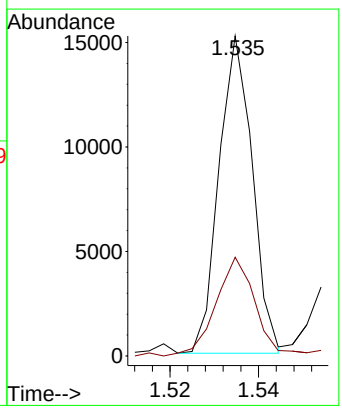
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

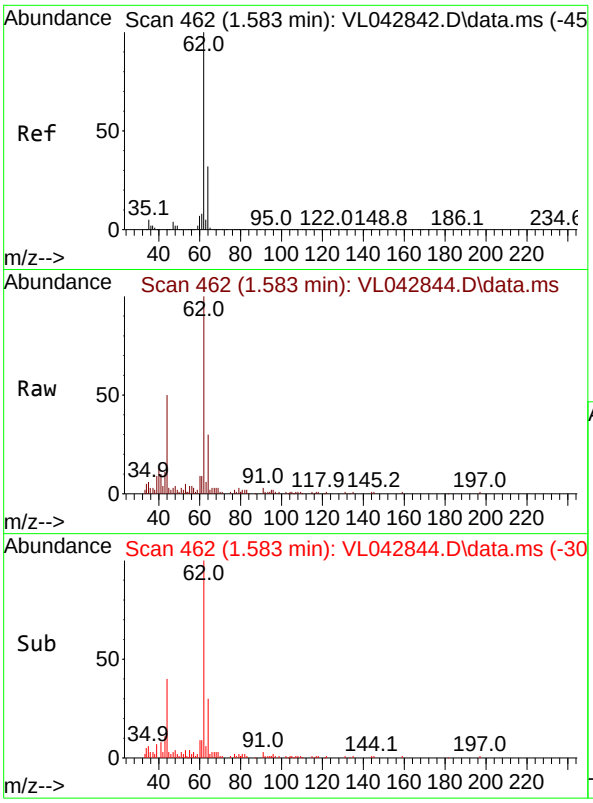


#4
Chloromethane
Concen: 1.045 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 50 Resp: 7948

Ion	Ratio	Lower	Upper
50	100		
52	30.2	25.9	38.9

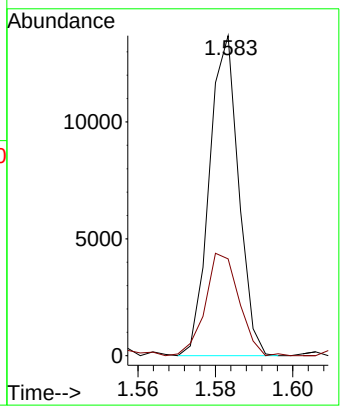




#5
Vinyl Chloride
Concen: 0.960 ppbv
RT: 1.583 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 62 Resp: 718

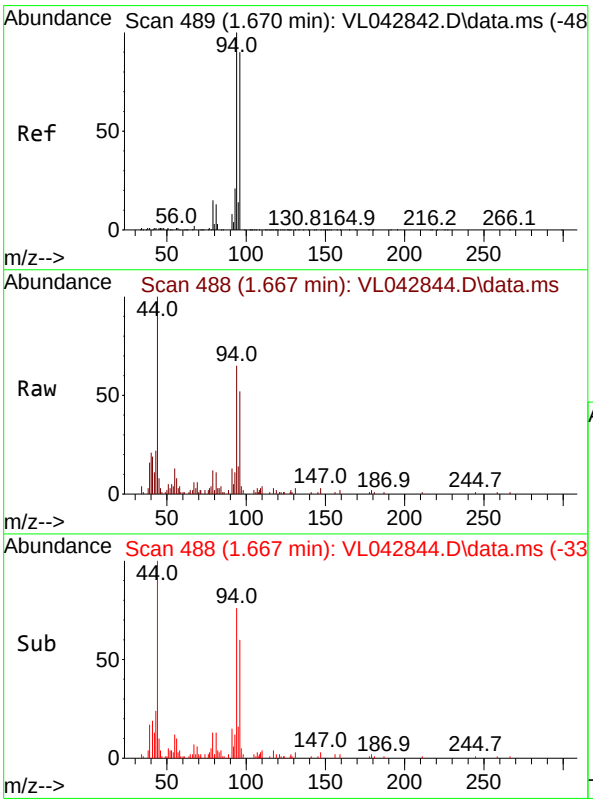
Ion	Ratio	Lower	Upper
62	100		
64	29.7	25.4	38.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
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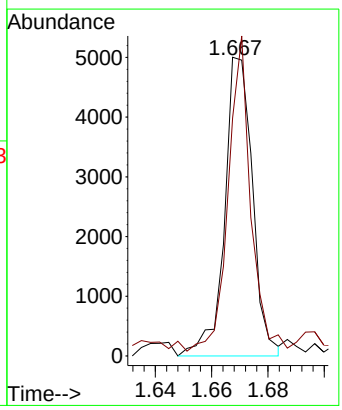
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

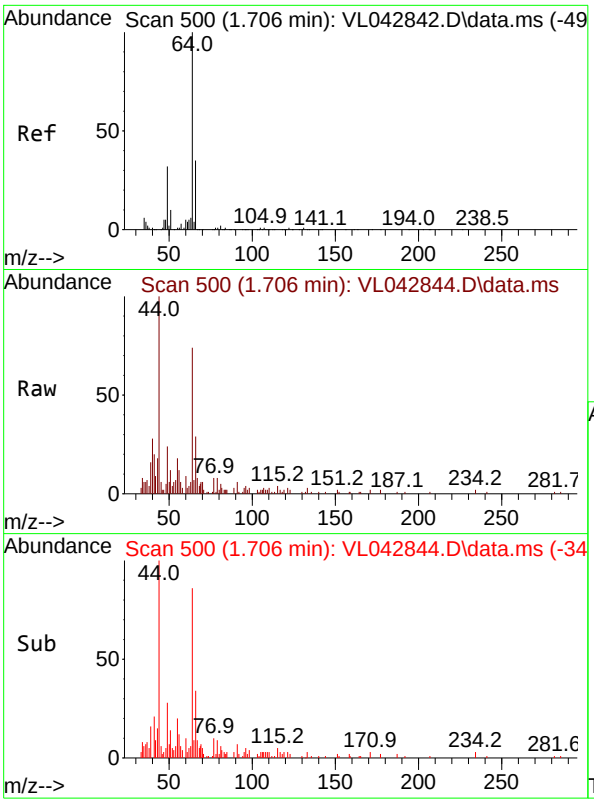


#6
Bromomethane
Concen: 1.151 ppbv
RT: 1.667 min Scan# 488
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 94 Resp: 3446

Ion	Ratio	Lower	Upper
94	100		
96	74.7	72.1	108.1

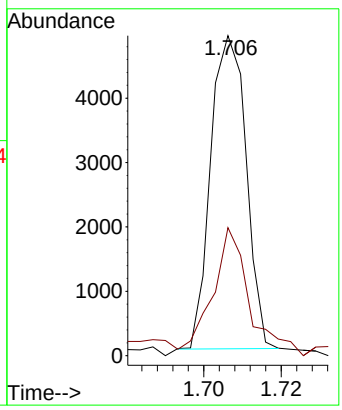




#7
Chloroethane
Concen: 1.056 ppbv
RT: 1.706 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 64 Resp: 308

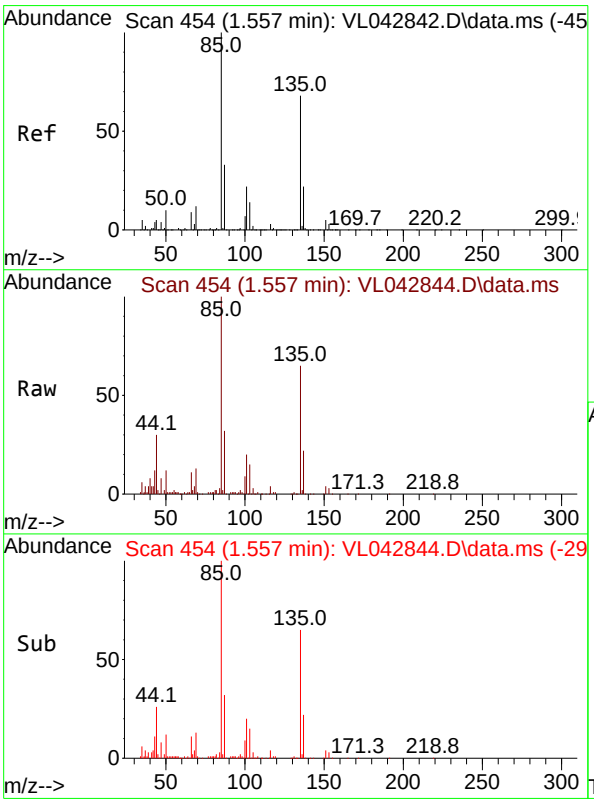
Ion	Ratio	Lower	Upper
64	100		
66	40.0	28.6	42.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

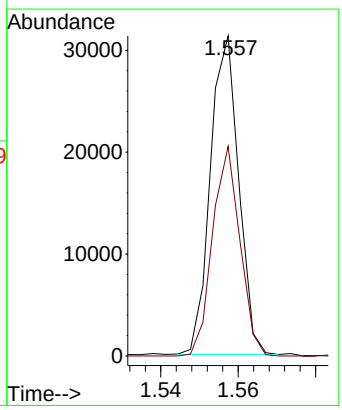
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

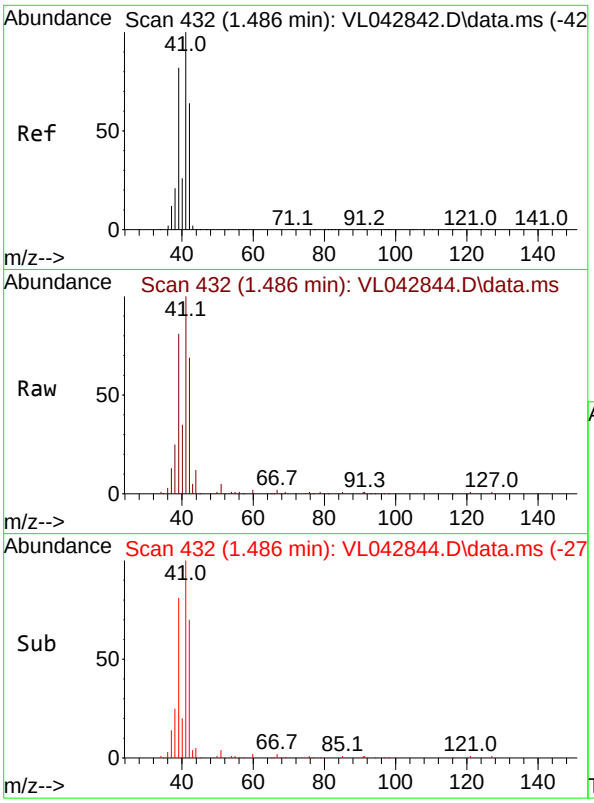


#8
Dichlorotetrafluoroethane
Concen: 1.030 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 85 Resp: 15872

Ion	Ratio	Lower	Upper
85	100		
135	63.7	51.2	76.8

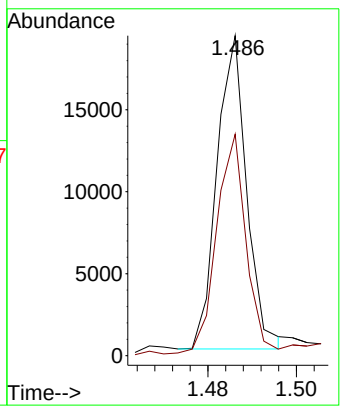




#9
Propene
Concen: 0.989 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 41 Resp: 889

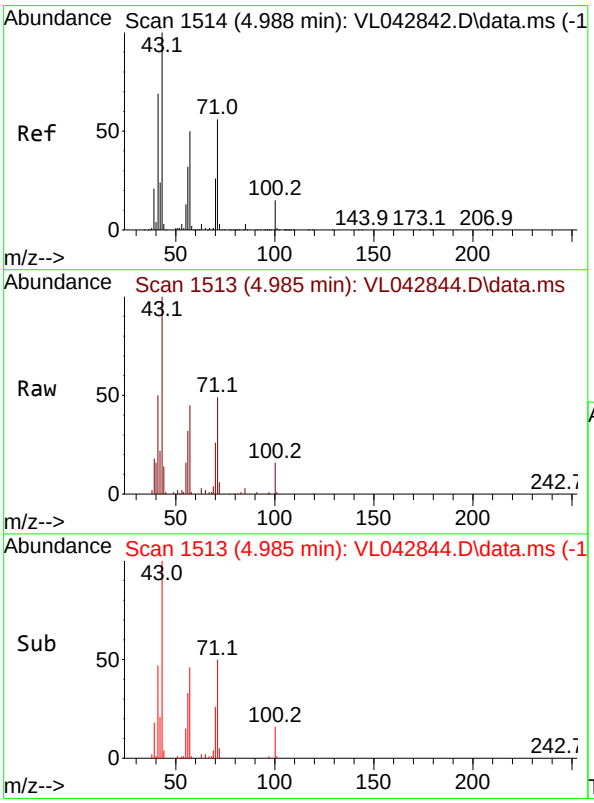
Ion	Ratio	Lower	Upper
41	100		
42	74.9	53.0	79.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
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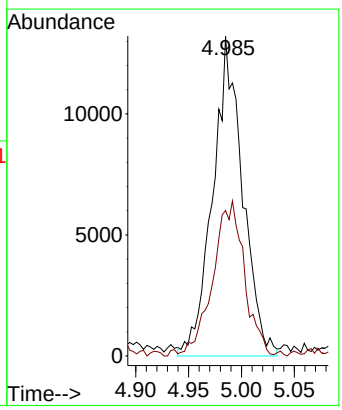
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

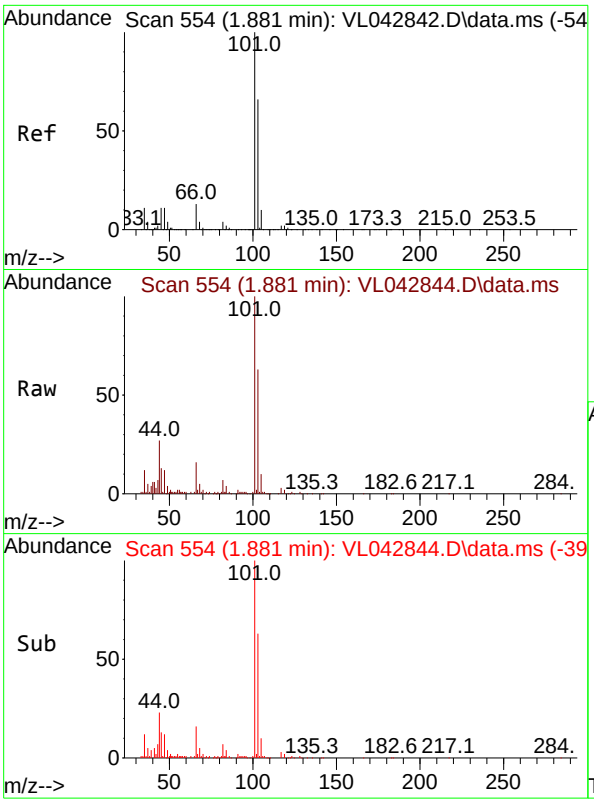


#10
Heptane
Concen: 1.075 ppbv m
RT: 4.985 min Scan# 1513
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

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# 5
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

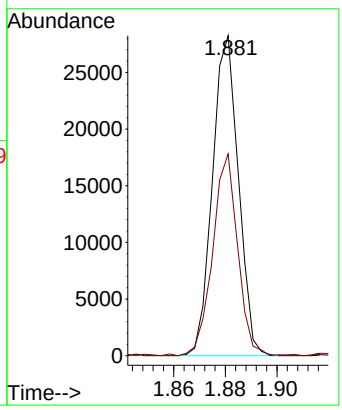
Tgt Ion:101 Resp: 1970

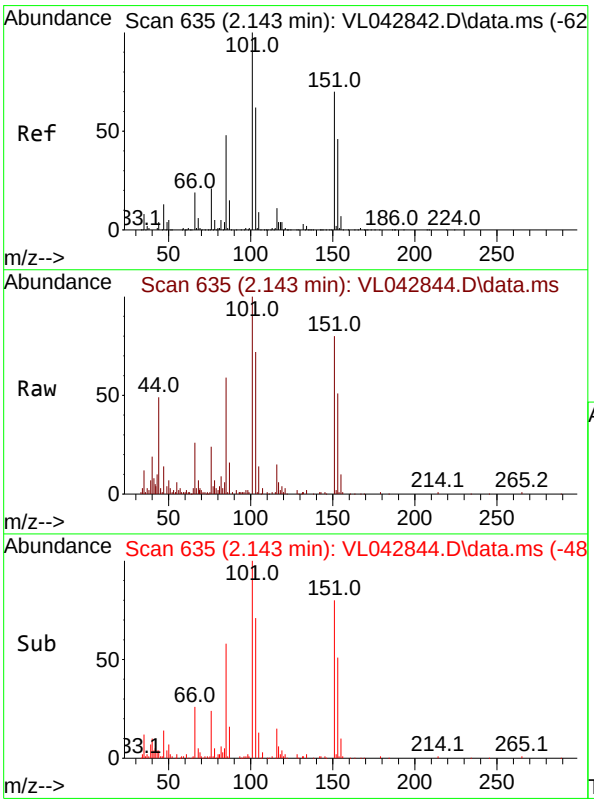
Ion	Ratio	Lower	Upper
101	100		
103	62.8	52.5	78.7

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

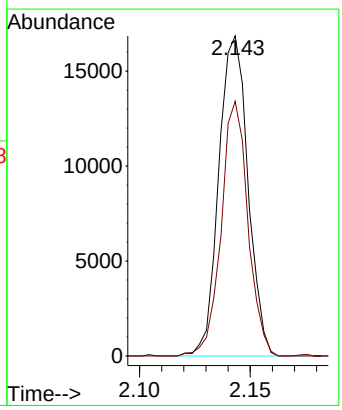


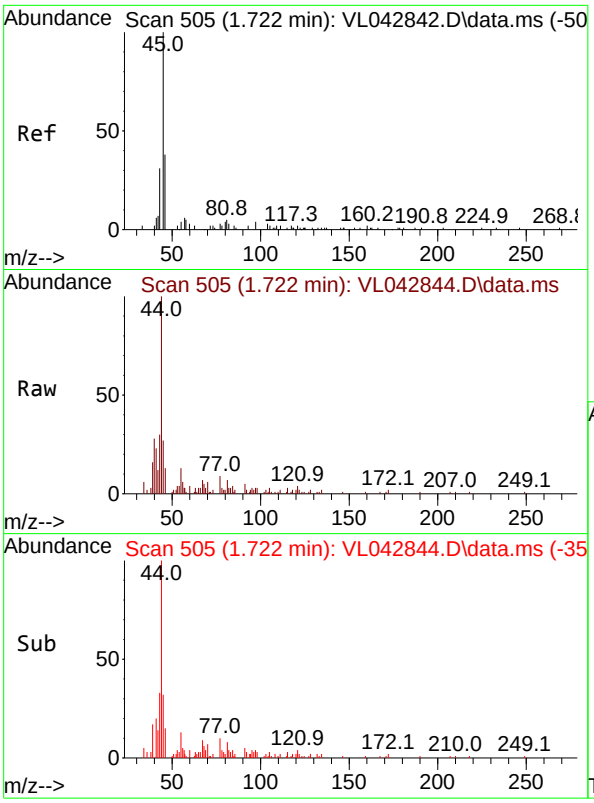


#12
1,1,2-Trichlorotrifluoroethane
Concen: 1.043 ppbv
RT: 2.143 min Scan# 635
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion:101 Resp: 15446

Ion	Ratio	Lower	Upper
101	100		
151	73.2	56.4	84.6

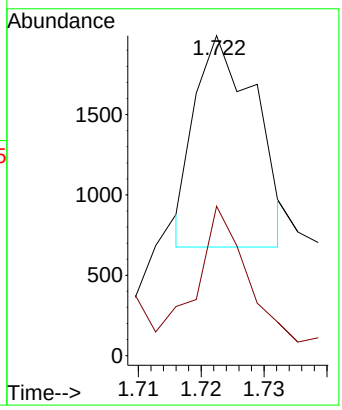




#13
Ethanol
Concen: 0.991 ppbv m
RT: 1.722 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 45 Resp: 88

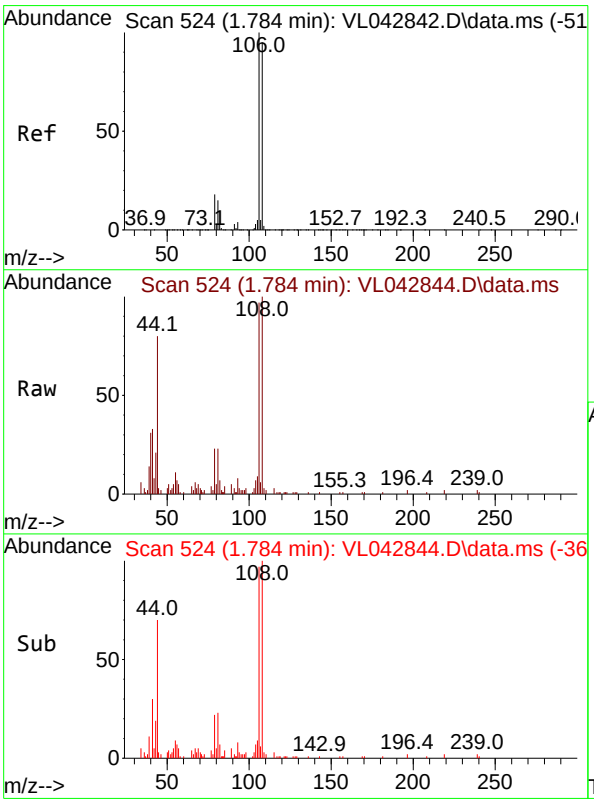
Ion	Ratio	Lower	Upper
45	100		
46	92.1	17.5	69.9#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
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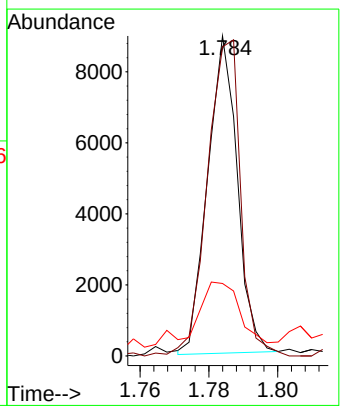
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

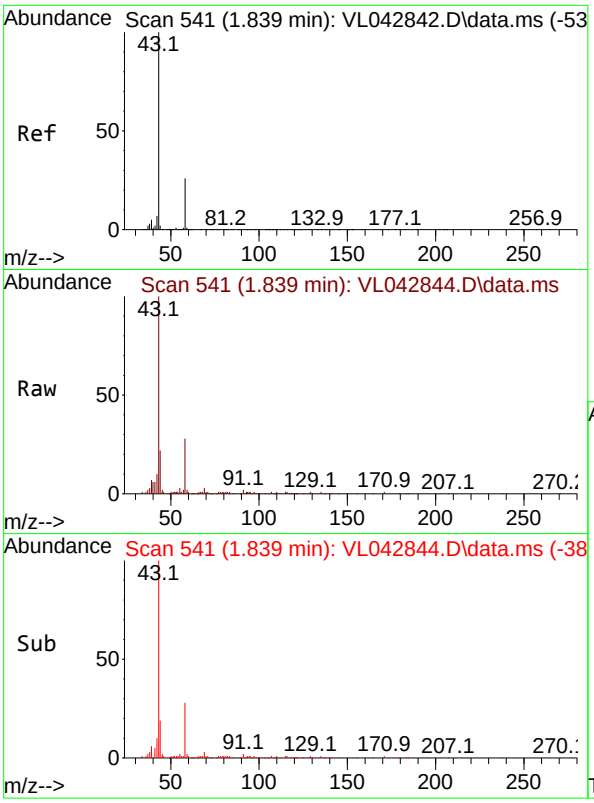


#14
Bromoethene
Concen: 0.996 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

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# 54
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

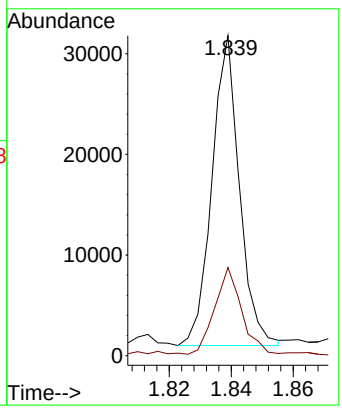
Tgt Ion: 43 Resp: 1896

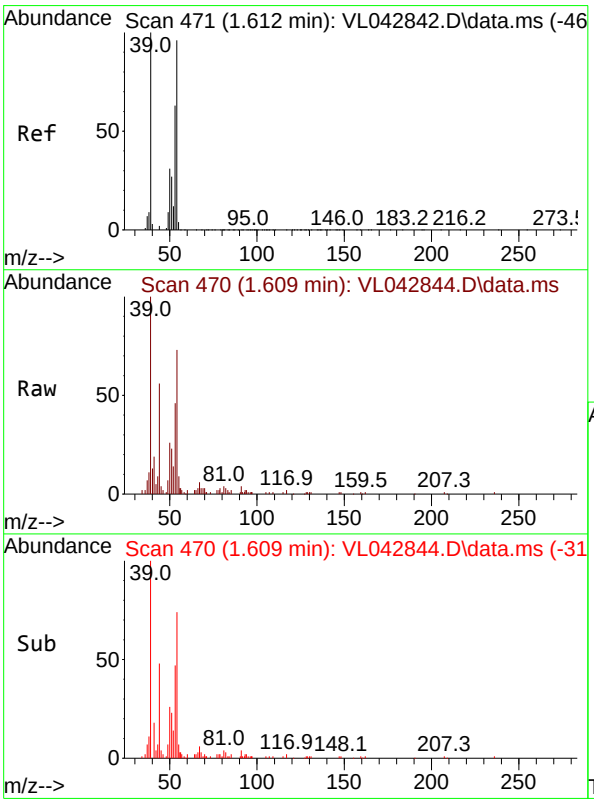
Ion	Ratio	Lower	Upper
43	100		
58	29.1	22.4	33.6

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

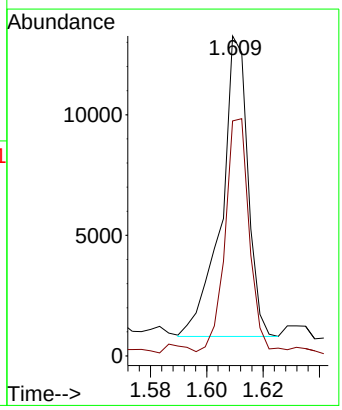


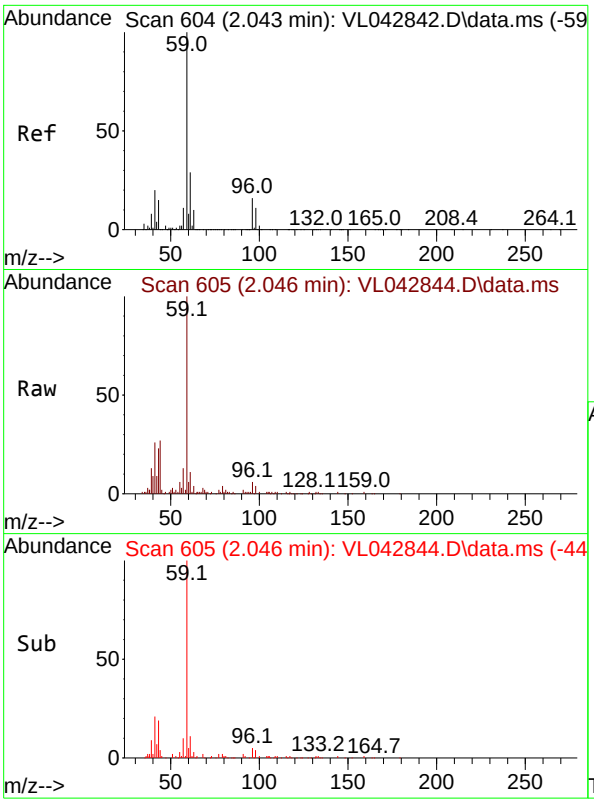


#16
1,3-Butadiene
Concen: 1.055 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

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# 6
Delta R.T. 0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

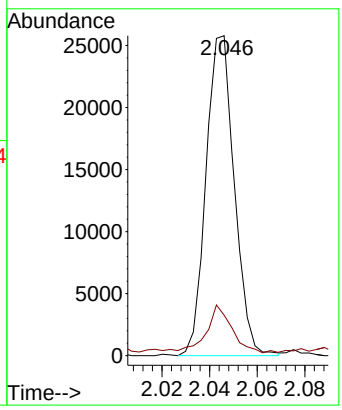
Tgt Ion: 59 Resp: 2134

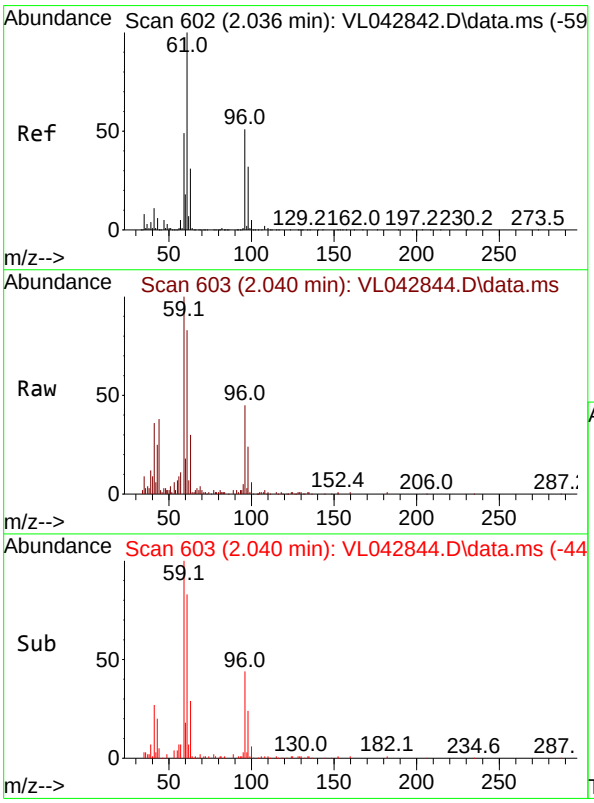
Ion	Ratio	Lower	Upper
59	100		
57	13.7	9.0	13.4

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

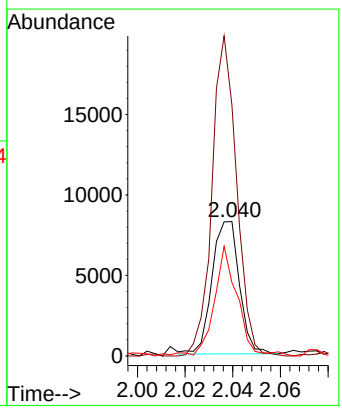


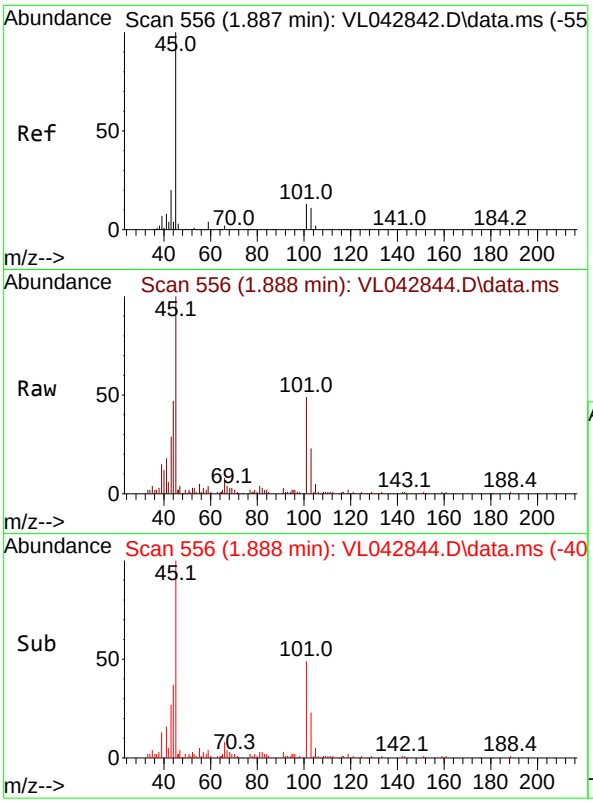


#18
1,1-Dichloroethene
Concen: 1.006 ppbv
RT: 2.040 min Scan# 603
Delta R.T. 0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

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

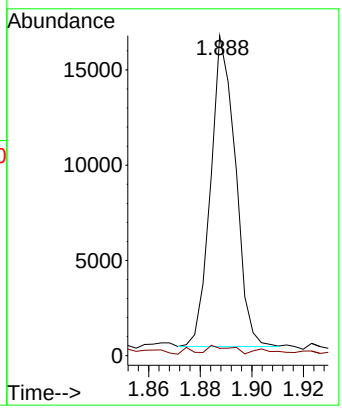




#19
Isopropyl Alcohol
Concen: 1.073 ppbv
RT: 1.888 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 45 Resp: 1089

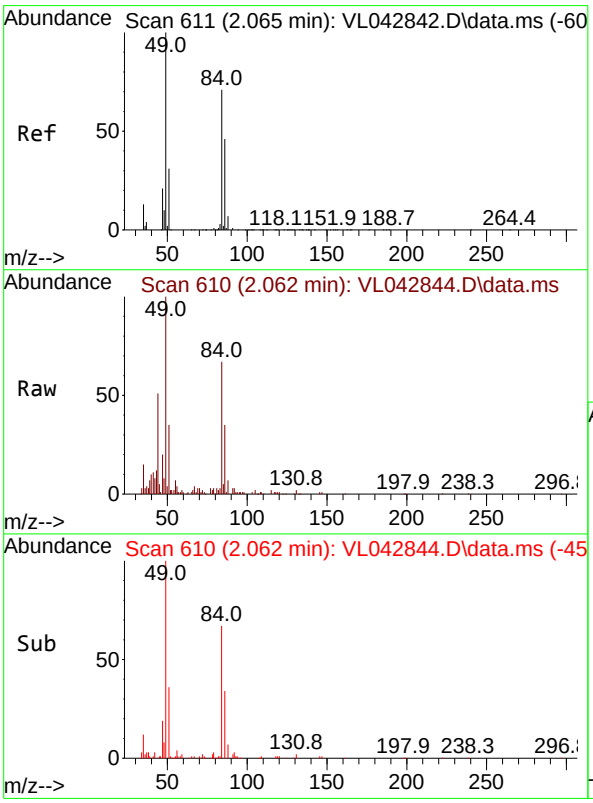
Ion	Ratio	Lower	Upper
45	100		
58	2.9	32.7	49.1#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
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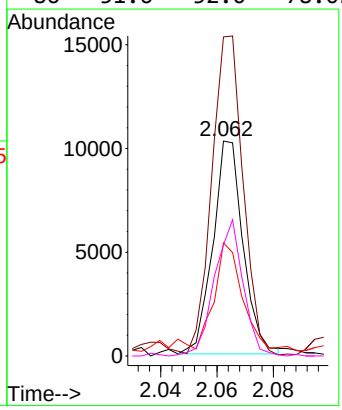
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

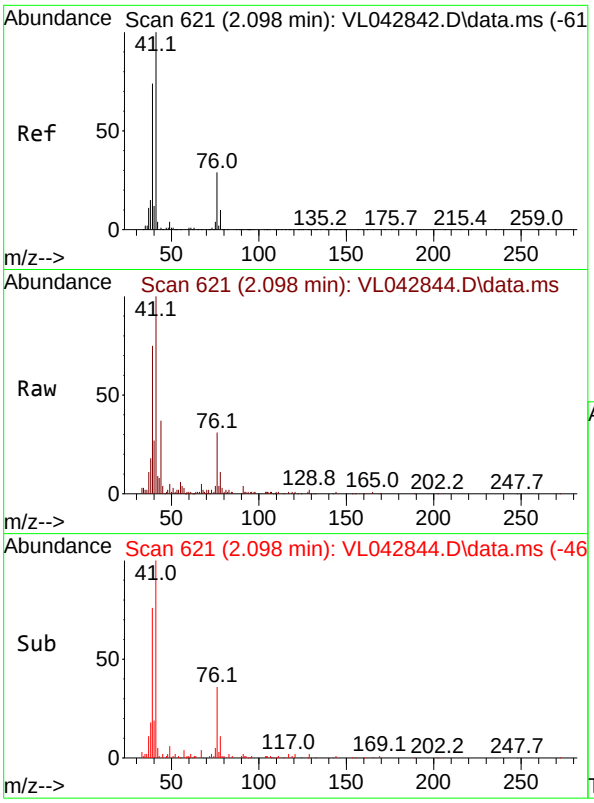


#20
Methylene Chloride
Concen: 1.076 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

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#

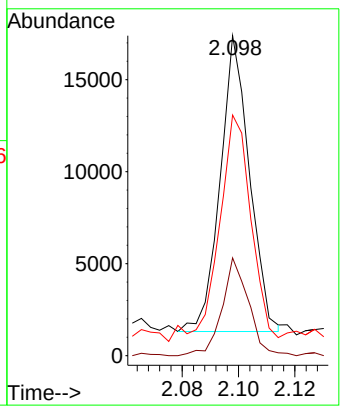




#21
Allyl Chloride
Concen: 0.966 ppbv
RT: 2.098 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 41 Resp: 1159

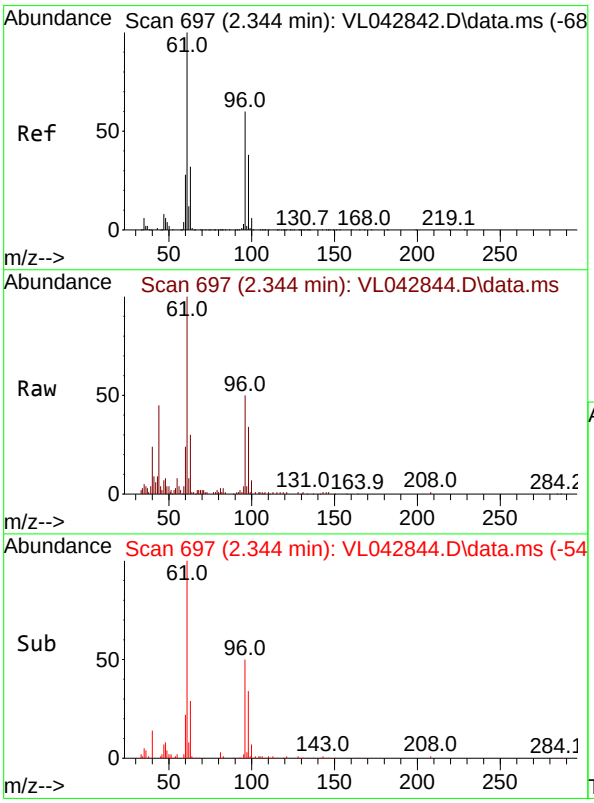
Ion	Ratio	Lower	Upper
41	100		
76	30.9	23.9	35.9
39	86.2	57.8	86.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

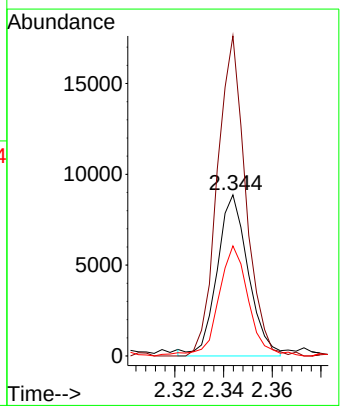
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

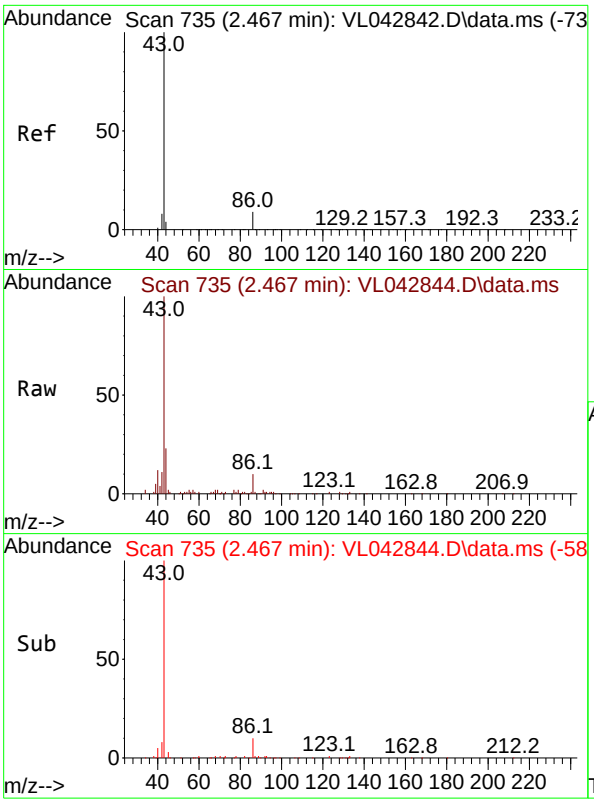


#22
trans-1,2-Dichloroethene
Concen: 1.082 ppbv m
RT: 2.344 min Scan# 697
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

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

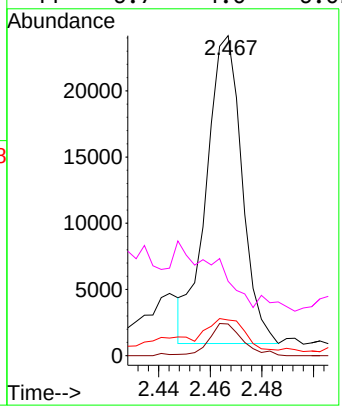




#23
Vinyl Acetate
Concen: 0.996 ppbv
RT: 2.467 min Scan# 7
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 43 Resp: 2227

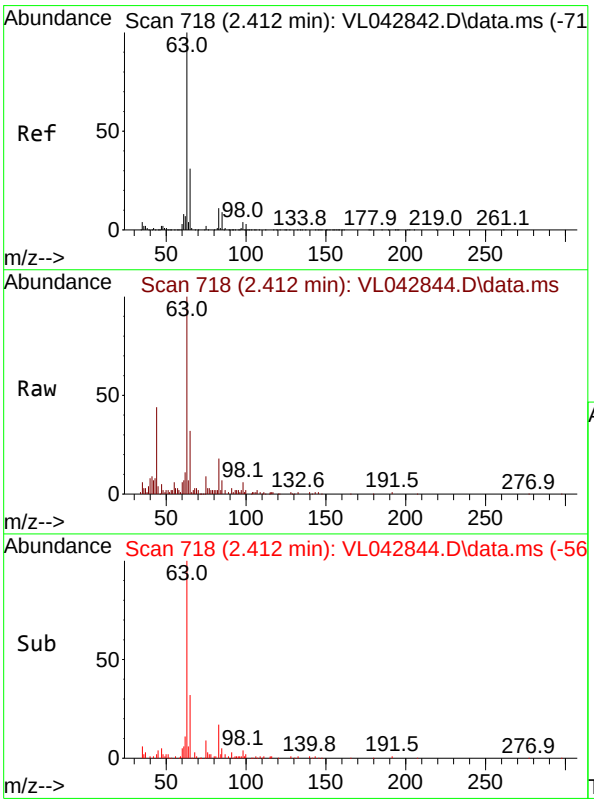
Ion	Ratio	Lower	Upper
43	100		
86	10.0	6.6	9.8#
42	9.8	7.0	10.6
44	6.7	4.0	6.0#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
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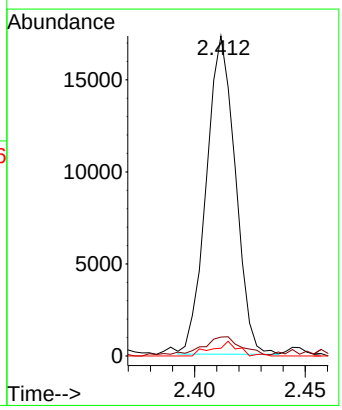
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

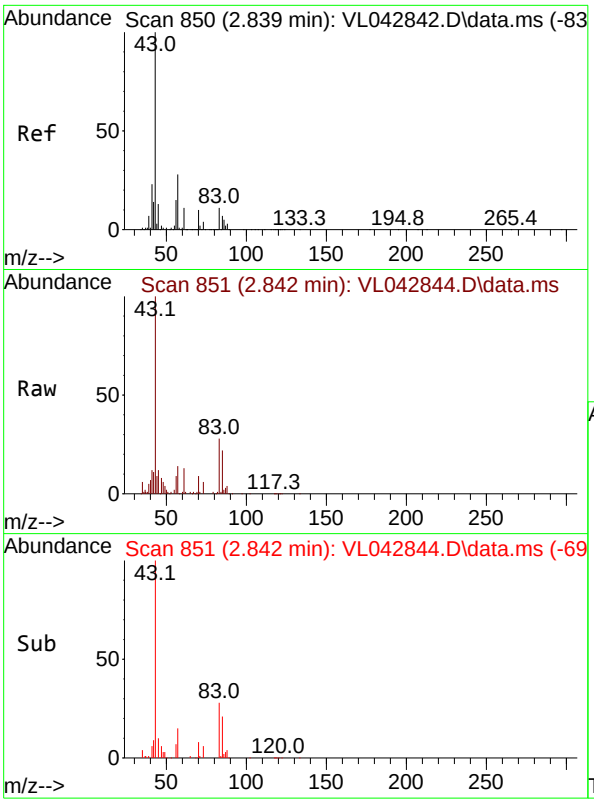


#24
1,1-Dichloroethane
Concen: 1.045 ppbv
RT: 2.412 min Scan# 718
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

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

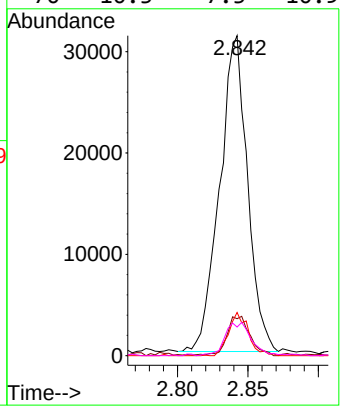




#25
Ethyl Acetate
Concen: 1.045 ppbv
RT: 2.842 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 43 Resp: 4300

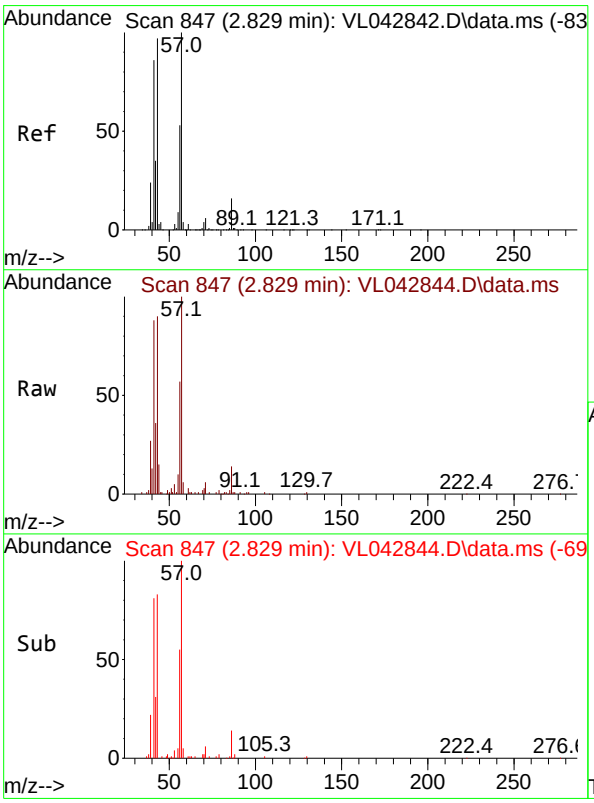
Ion	Ratio	Lower	Upper
43	100		
45	11.2	8.1	12.1
61	9.7	7.4	11.2
70	10.3	7.3	10.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

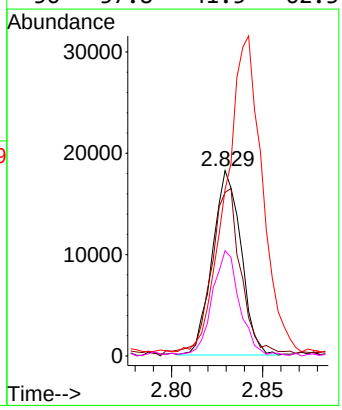
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

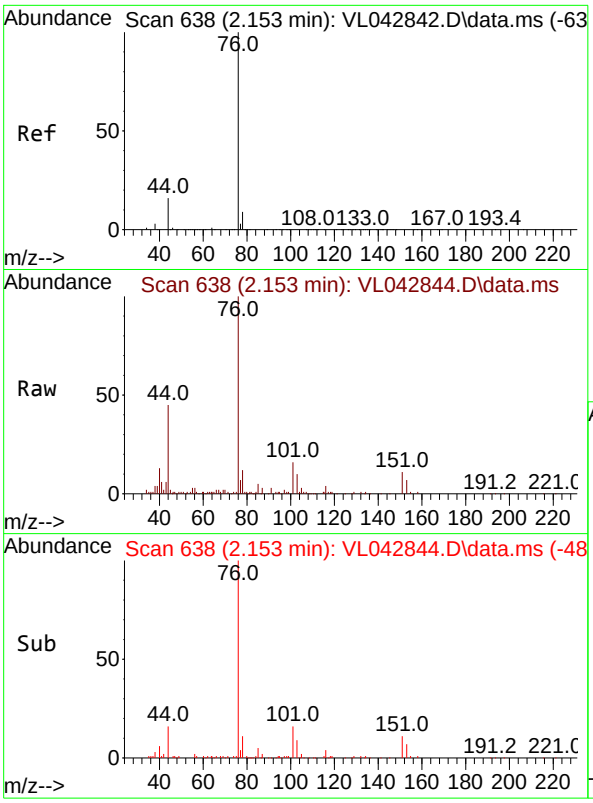


#26
Hexane
Concen: 1.050 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

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

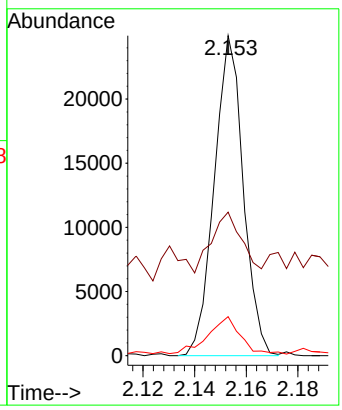




#27
Carbon Disulfide
Concen: 1.052 ppbv
RT: 2.153 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 76 Resp: 1945

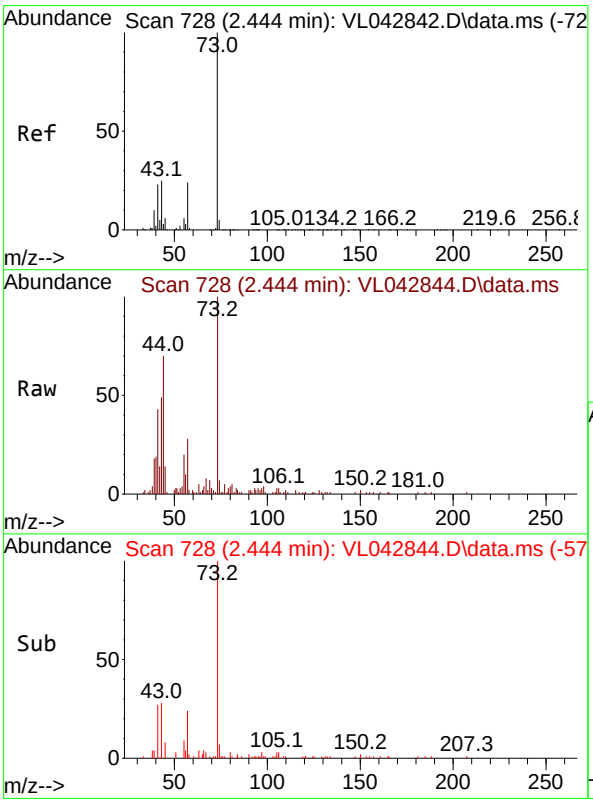
Ion	Ratio	Lower	Upper
76	100		
44	88.3	15.9	23.9#
78	17.1	9.5	14.3#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

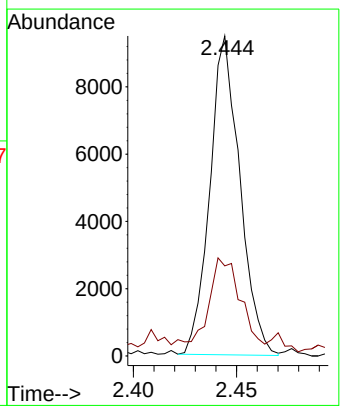
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

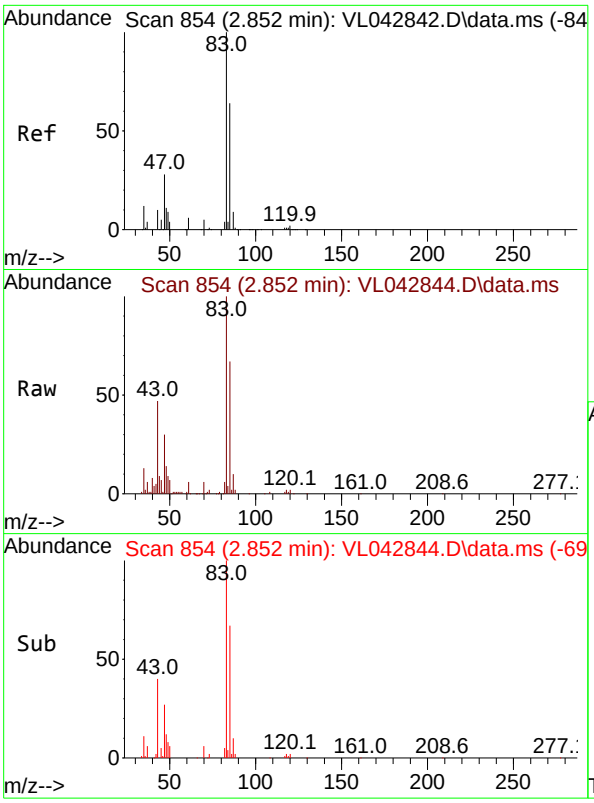


#28
Methyl tert-Butyl Ether
Concen: 0.991 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 73 Resp: 9600

Ion	Ratio	Lower	Upper
73	100		
57	33.4	21.6	32.4#

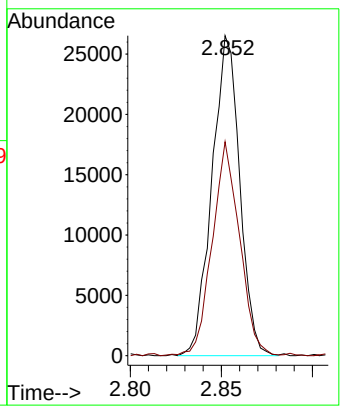




#29
Chloroform
Concen: 1.034 ppbv
RT: 2.852 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 83 Resp: 2805

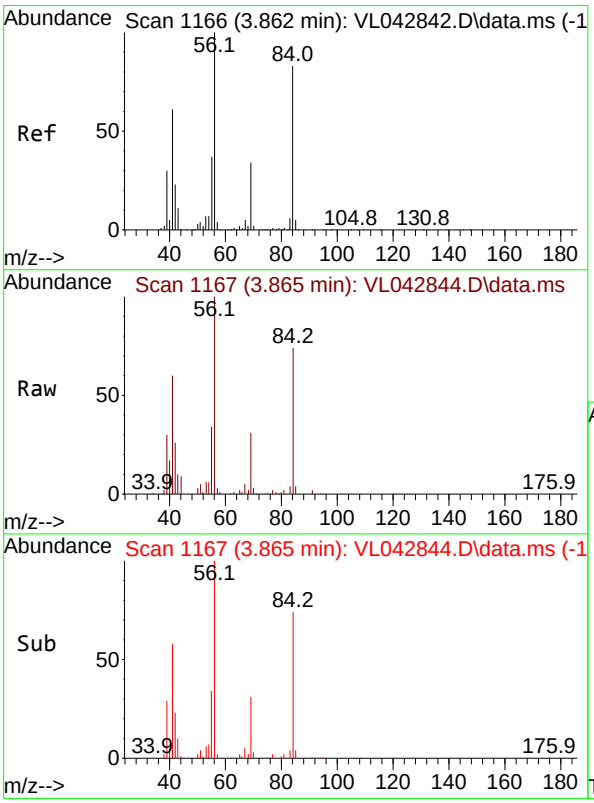
Ion	Ratio	Lower	Upper
83	100		
85	66.6	51.1	76.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

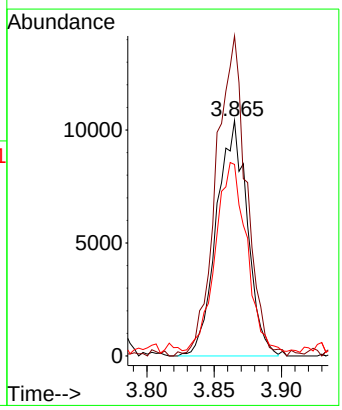
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

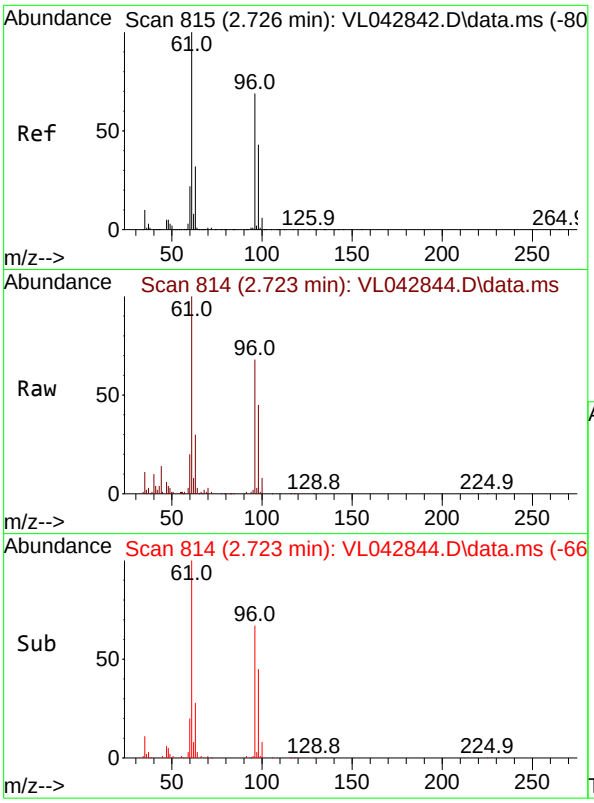


#30
Cyclohexane
Concen: 0.990 ppbv
RT: 3.865 min Scan# 1167
Delta R.T. 0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

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

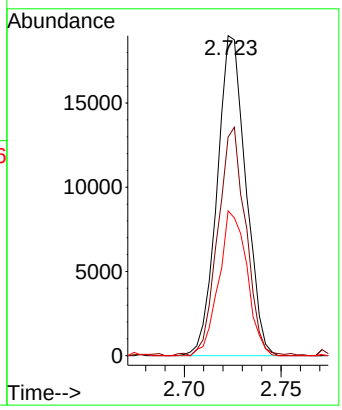




#31
cis-1,2-Dichloroethene
Concen: 1.031 ppbv
RT: 2.723 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 61 Resp: 1959

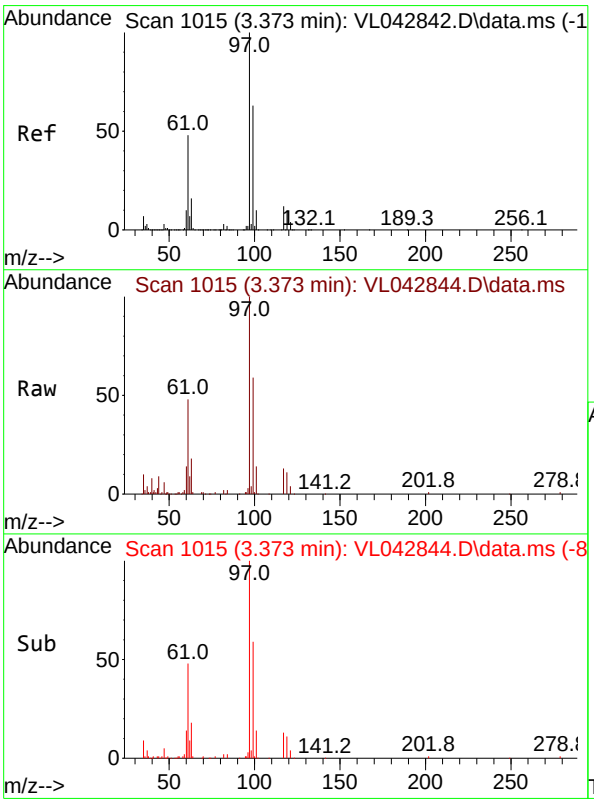
Ion	Ratio	Lower	Upper
61	100		
96	67.7	55.0	82.6
98	45.2	34.3	51.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
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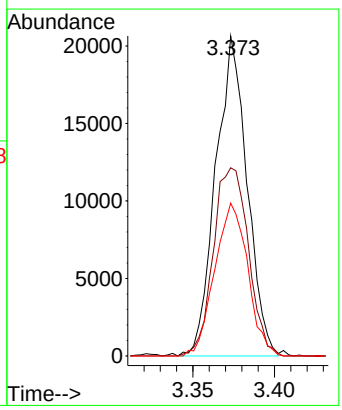
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

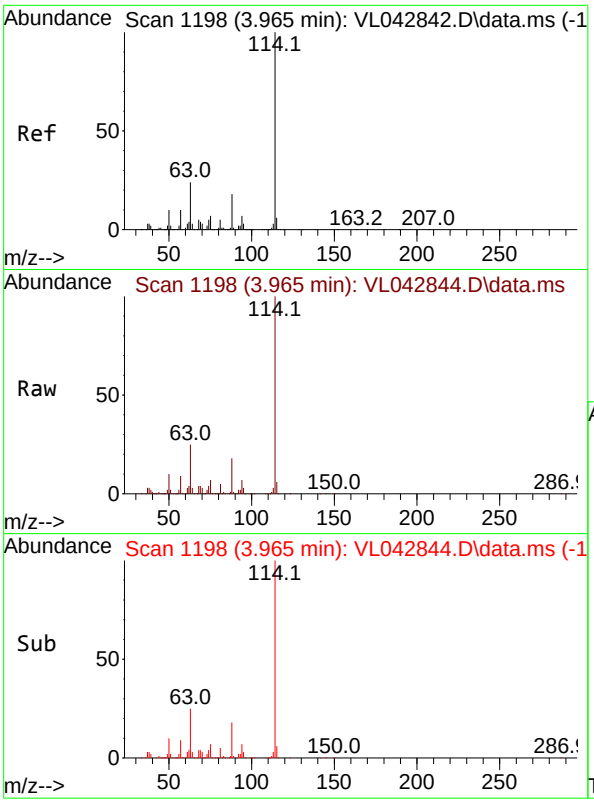


#32
1,1,1-Trichloroethane
Concen: 0.961 ppbv
RT: 3.373 min Scan# 1015
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

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# 1
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

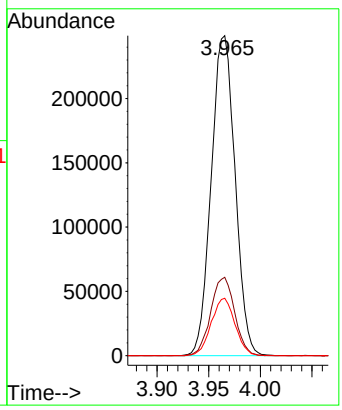
Tgt Ion:114 Resp: 40030

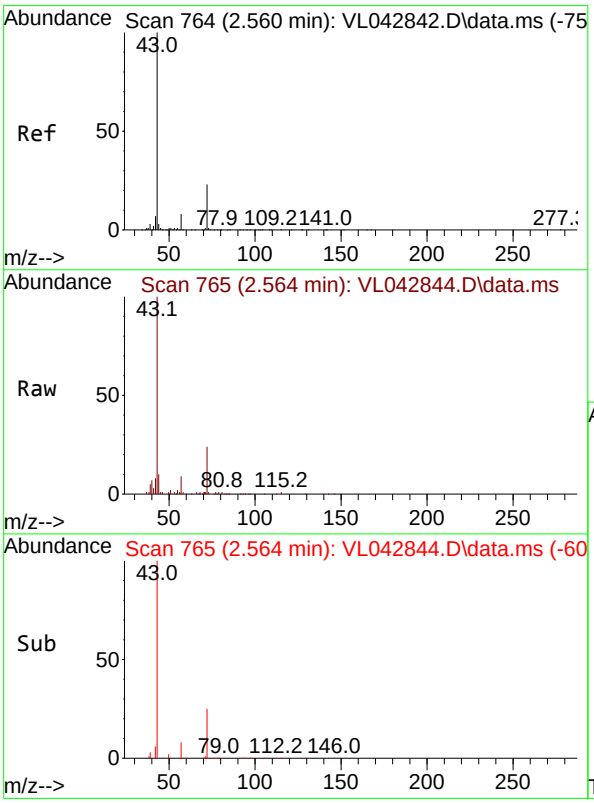
Ion	Ratio	Lower	Upper
114	100		
63	24.6	19.7	29.5
88	17.9	14.4	21.6

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

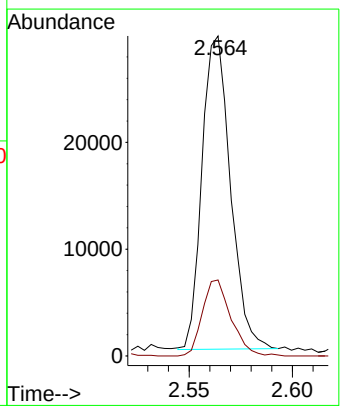


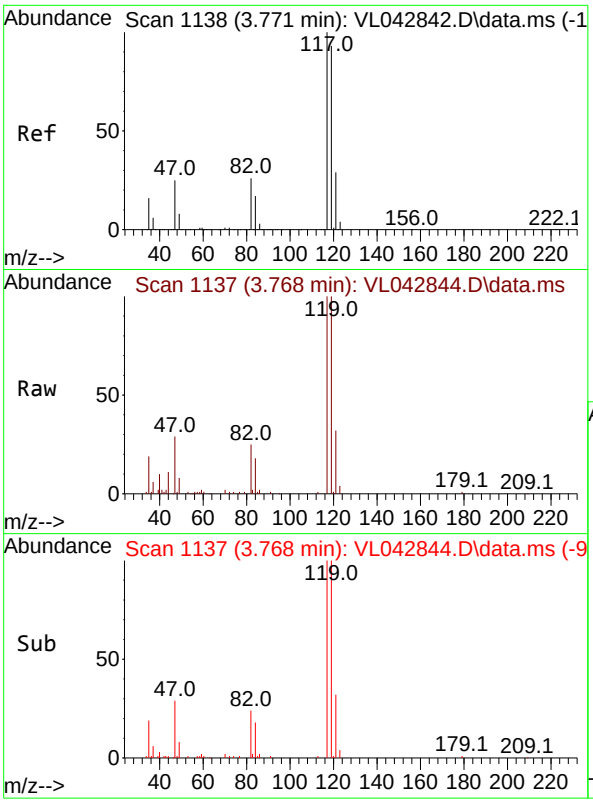


#34
2-Butanone
Concen: 1.040 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 43 Resp: 28105

Ion	Ratio	Lower	Upper
43	100		
72	24.4	18.6	28.0

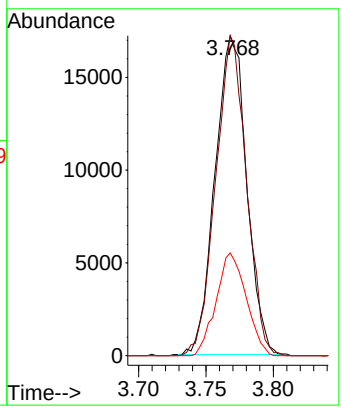




#35
Carbon Tetrachloride
Concen: 1.015 ppbv
RT: 3.768 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion:117 Resp: 2800

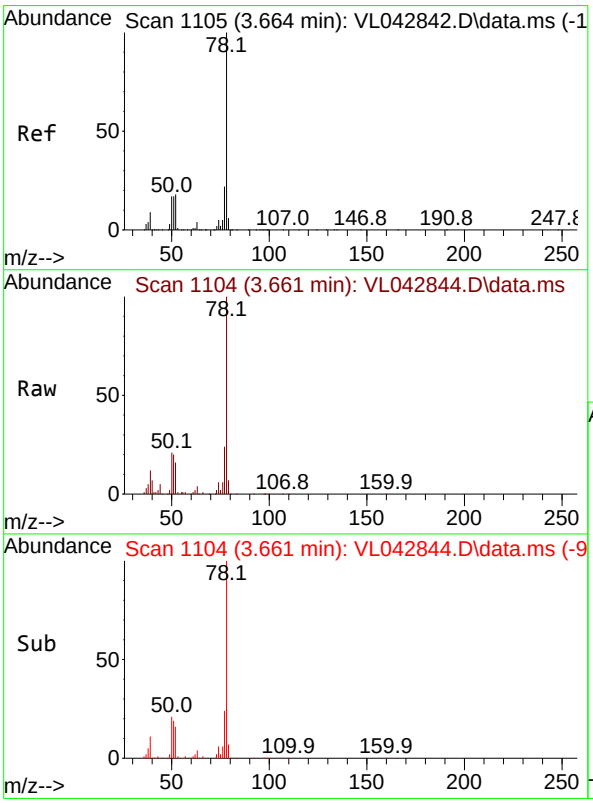
Ion	Ratio	Lower	Upper
117	100		
119	100.5	74.7	112.1
121	32.3	23.2	34.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

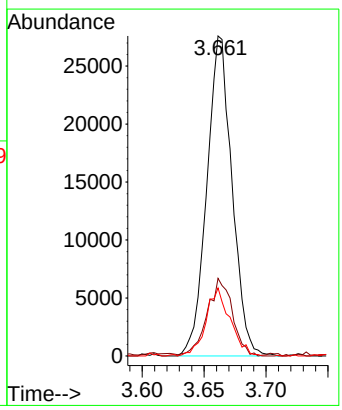
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

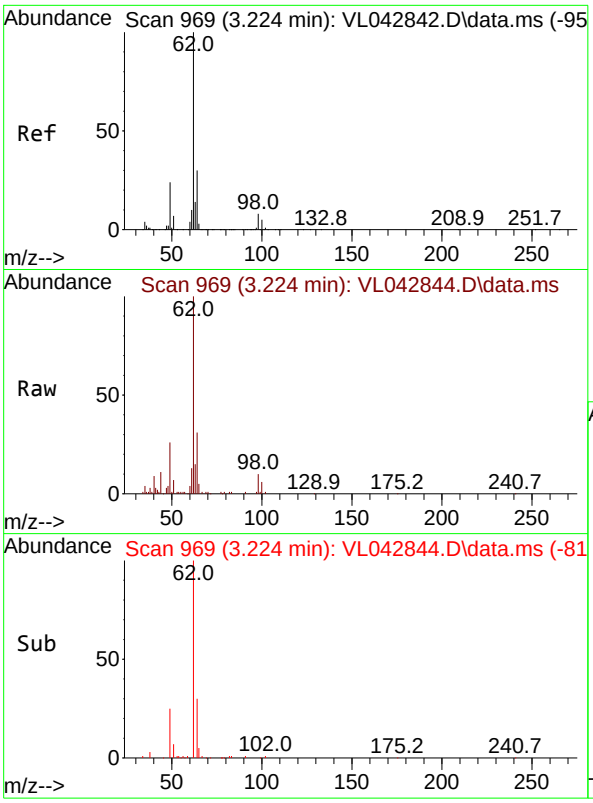


#36
Benzene
Concen: 1.021 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

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#

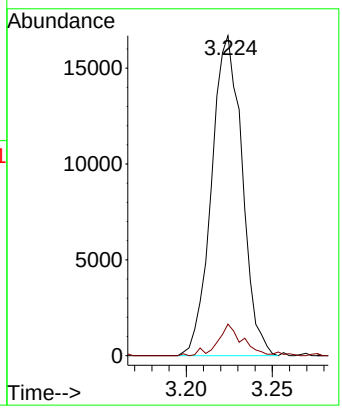




#37
1,2-Dichloroethane
Concen: 1.031 ppbv
RT: 3.224 min Scan# 9
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 62 Resp: 2064

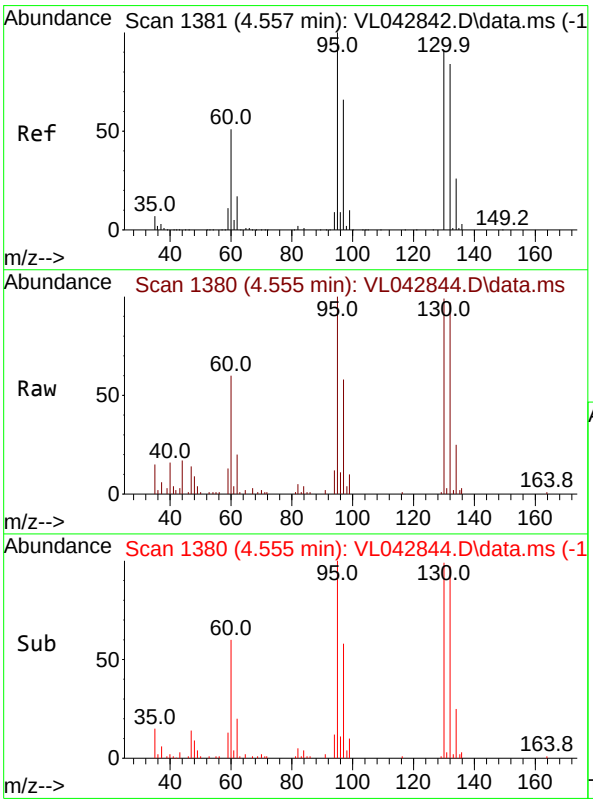
Ion	Ratio	Lower	Upper
62	100		
98	8.4	5.9	8.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
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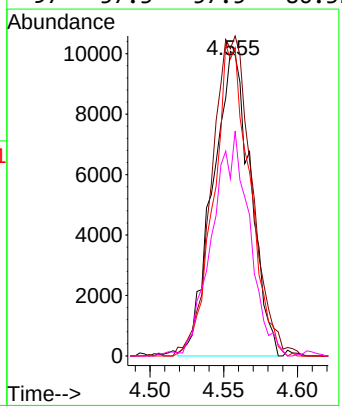
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

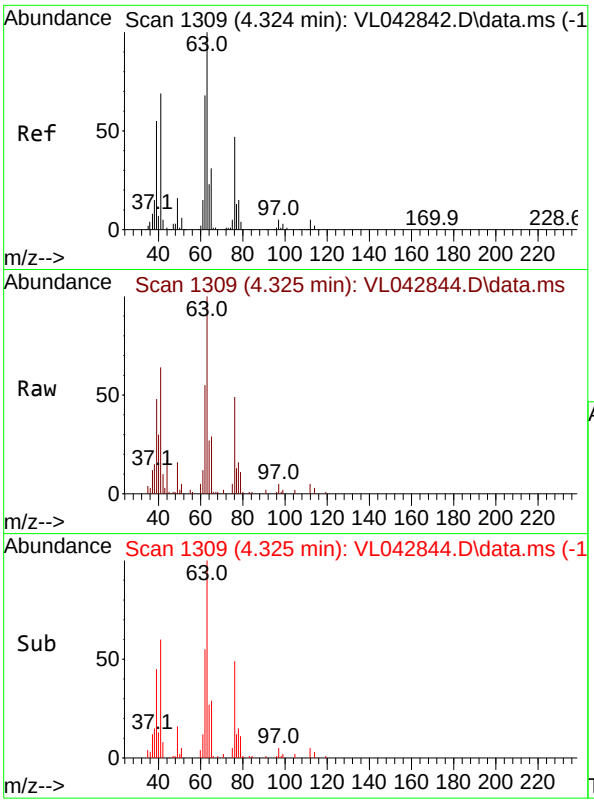


#38
Trichloroethene
Concen: 1.024 ppbv
RT: 4.555 min Scan# 1380
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

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#

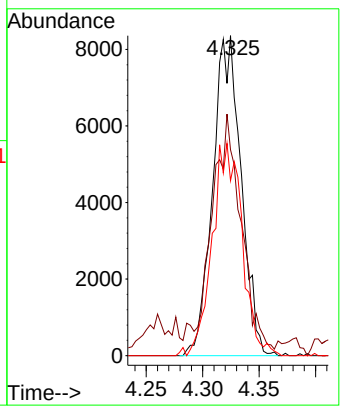




#39
1,2-Dichloropropane
Concen: 1.042 ppbv m
RT: 4.325 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 63 Resp: 1459

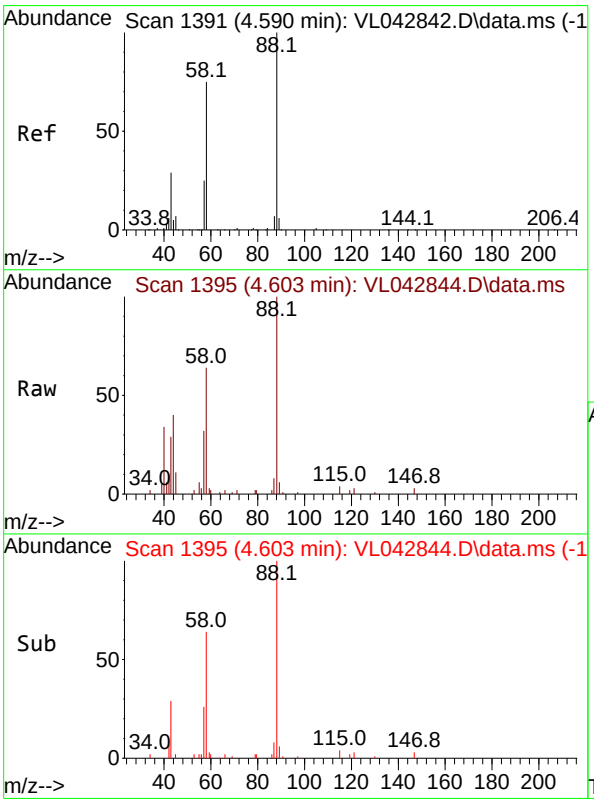
Ion	Ratio	Lower	Upper
63	100		
41	64.4	55.0	82.4
62	54.7	54.4	81.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

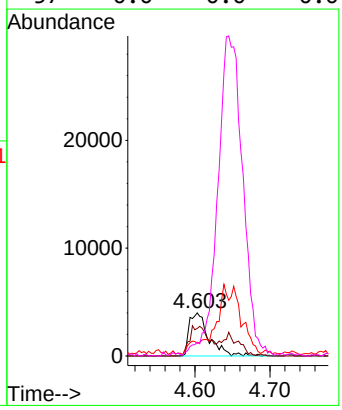
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

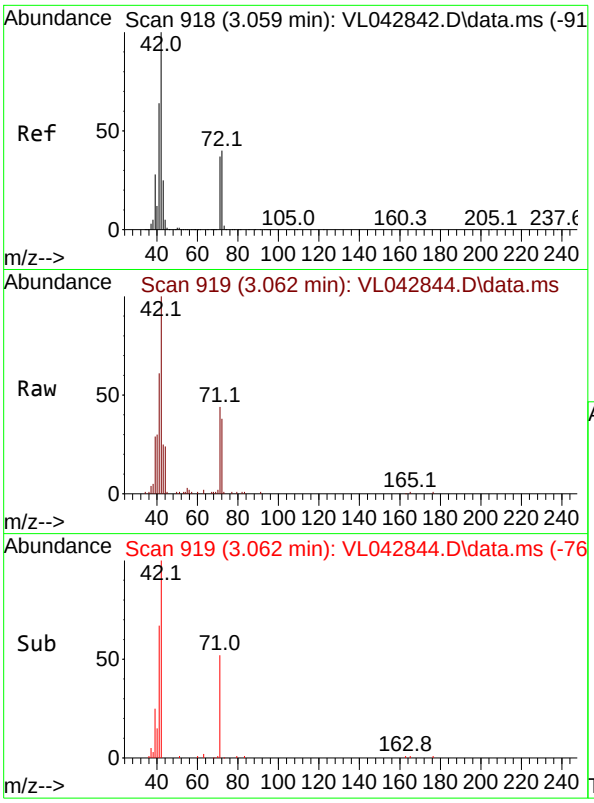


#40
1,4-Dioxane
Concen: 1.127 ppbv m
RT: 4.603 min Scan# 1395
Delta R.T. 0.013 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

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

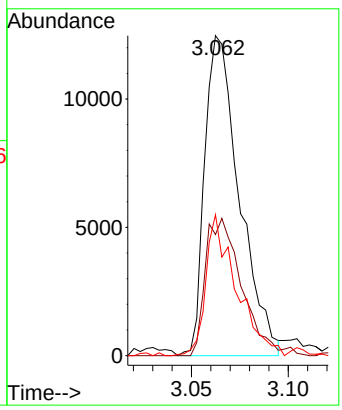




#41
Tetrahydrofuran
Concen: 1.032 ppbv
RT: 3.062 min Scan# 9
Delta R.T. 0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 42 Resp: 1555

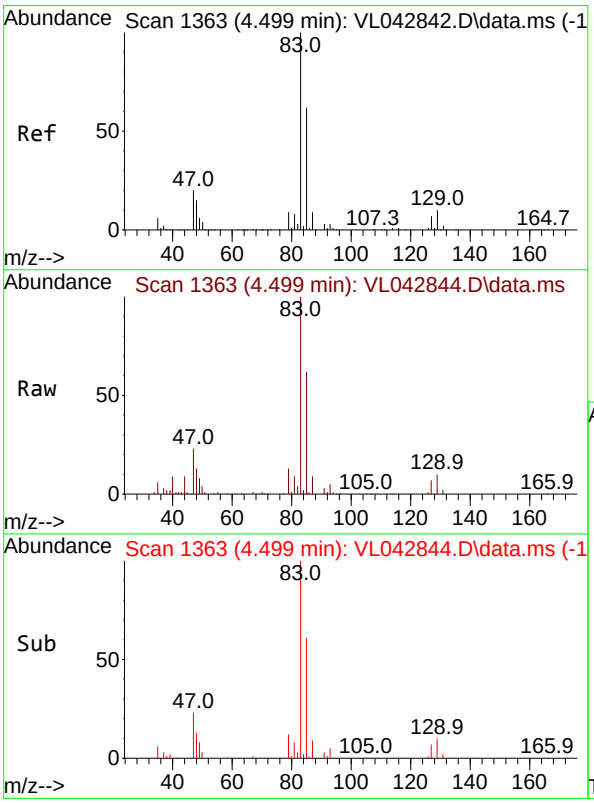
Ion	Ratio	Lower	Upper
42	100		
72	45.4	32.6	48.8
71	40.1	30.0	45.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

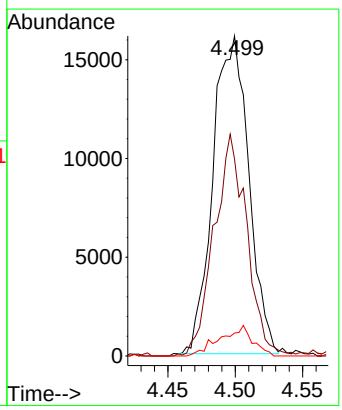
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

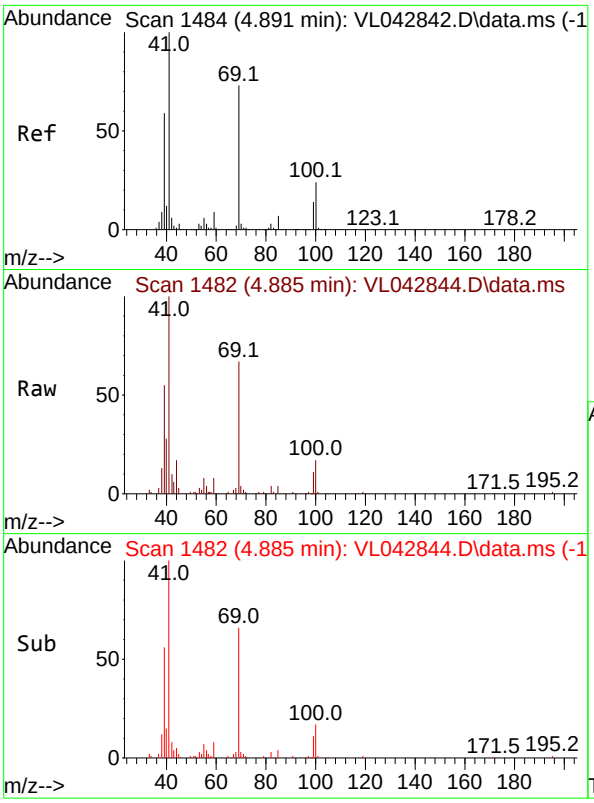


#42
Bromodichloromethane
Concen: 0.995 ppbv
RT: 4.499 min Scan# 1363
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

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

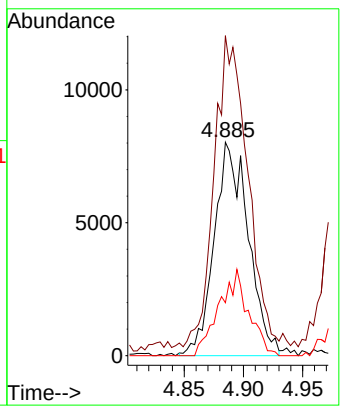




#43
Methyl Methacrylate
Concen: 1.022 ppbv m
RT: 4.885 min Scan# 14
Delta R.T. -0.006 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 69 Resp: 1607

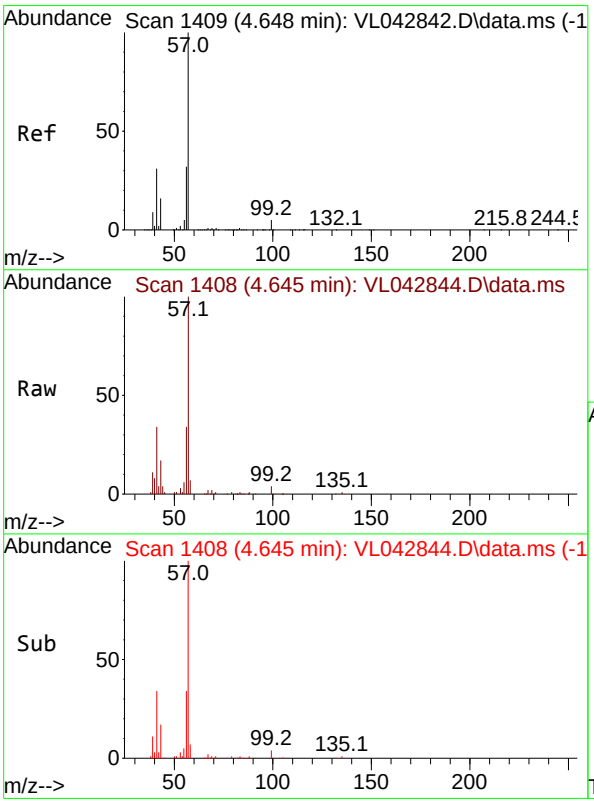
Ion	Ratio	Lower	Upper
69	100		
41	0.0	114.6	172.0#
100	35.1	30.2	45.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

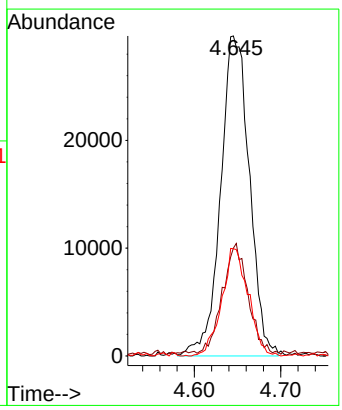
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

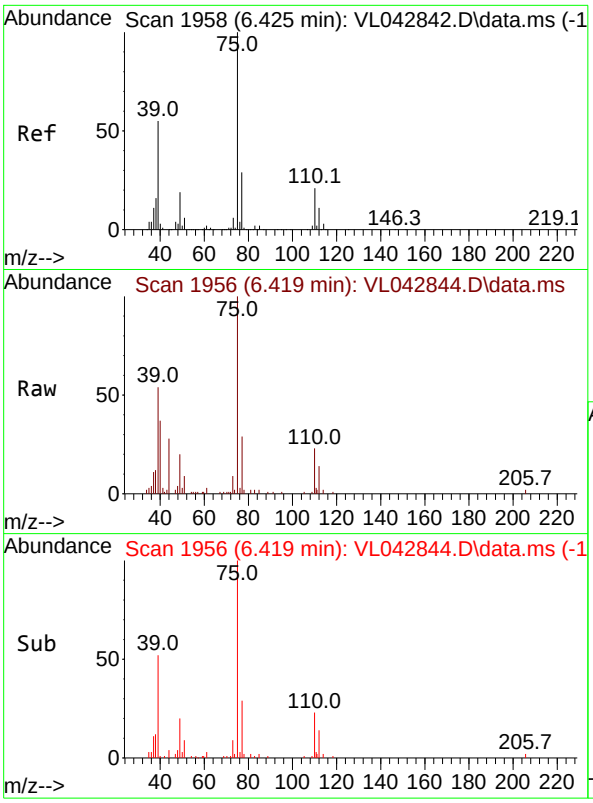


#44
2,2,4-Trimethylpentane
Concen: 1.069 ppbv m
RT: 4.645 min Scan# 1408
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

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

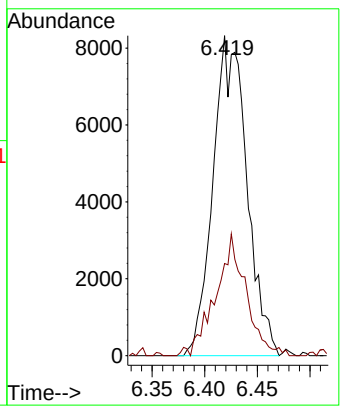




#45
t-1,3-Dichloropropene
Concen: 1.042 ppbv m
RT: 6.419 min Scan# 1
Delta R.T. -0.006 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 75 Resp: 1858

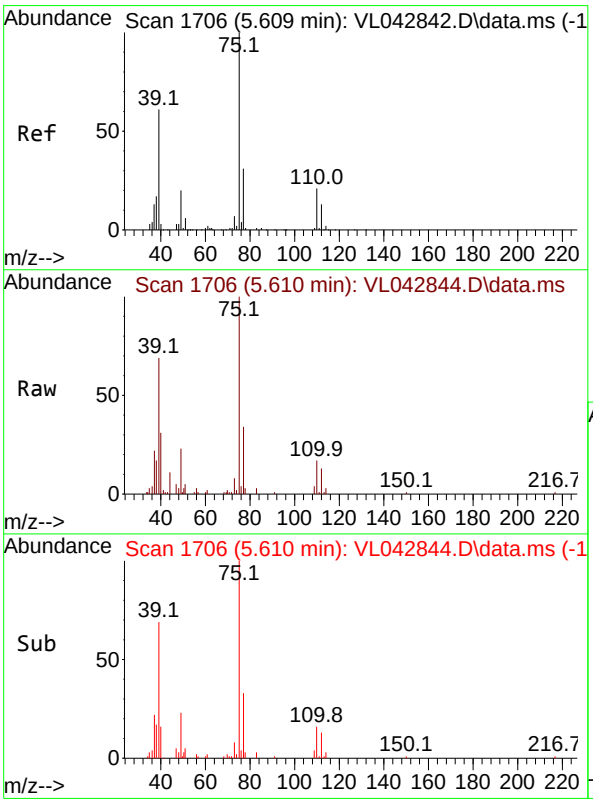
Ion	Ratio	Lower	Upper
75	100		
77	28.8	23.8	35.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

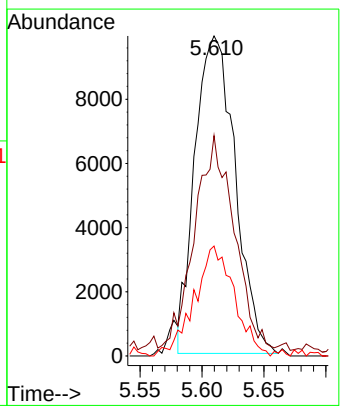
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

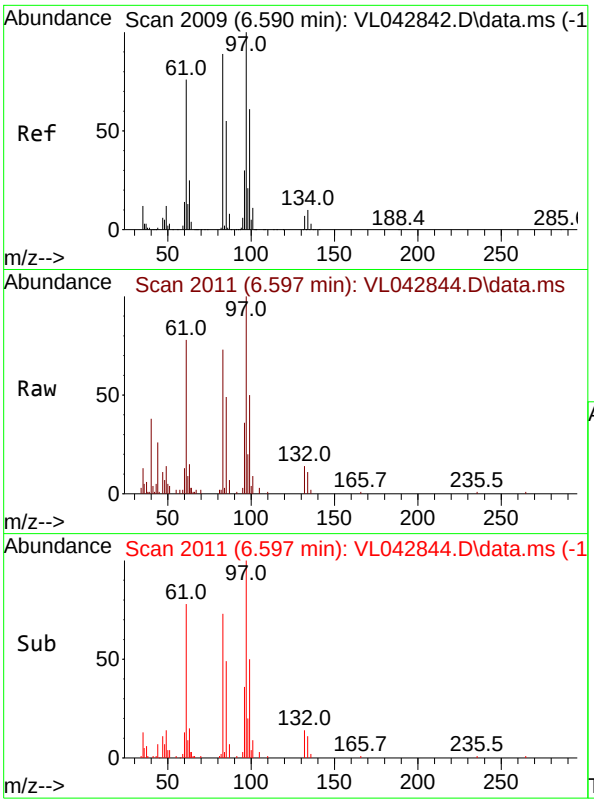


#46
cis-1,3-Dichloropropene
Concen: 0.999 ppbv
RT: 5.610 min Scan# 1706
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

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

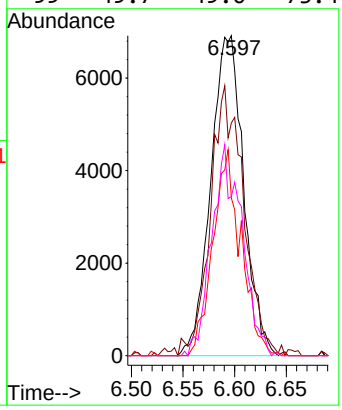




#47
1,1,2-Trichloroethane
Concen: 1.032 ppbv
RT: 6.597 min Scan# 2(
Delta R.T. 0.007 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 97 Resp: 1529

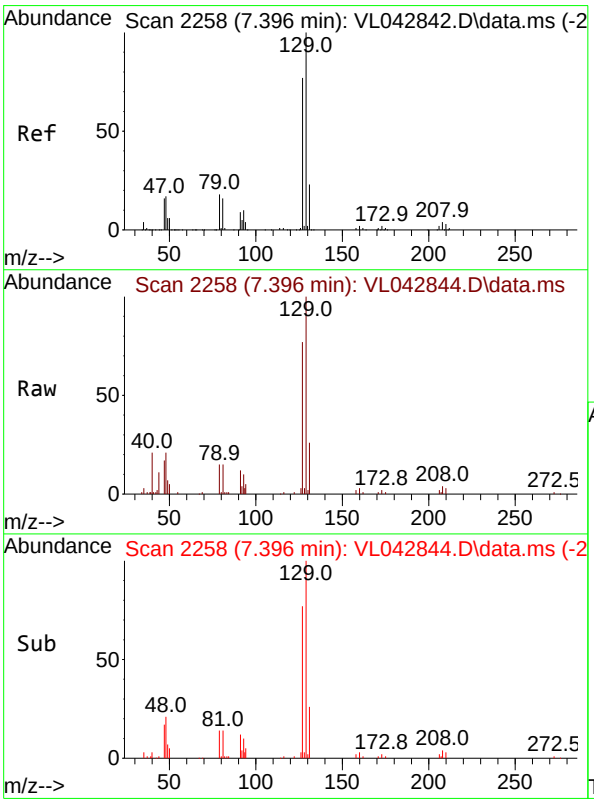
Ion	Ratio	Lower	Upper
97	100		
83	72.7	71.0	106.4
85	49.4	43.6	65.4
99	49.7	49.0	73.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

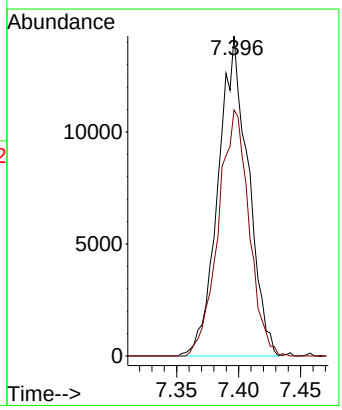
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

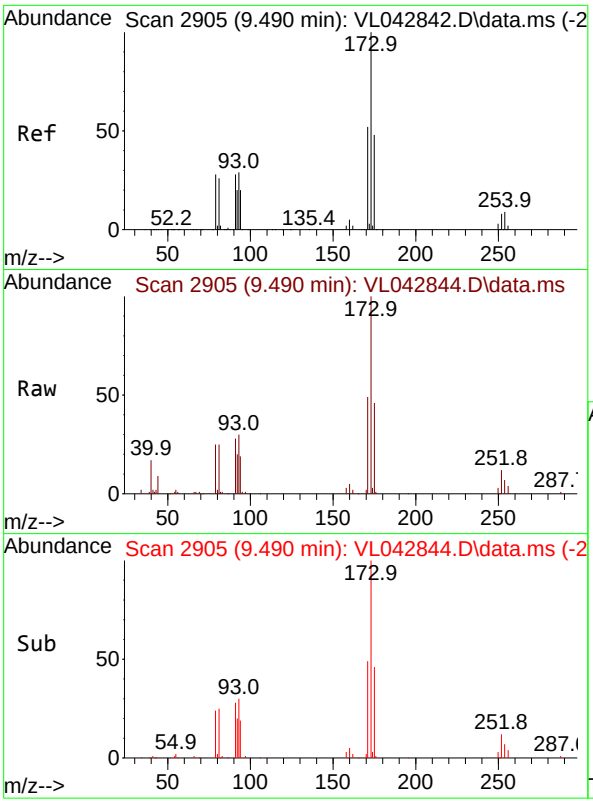


#48
Dibromochloromethane
Concen: 1.009 ppbv
RT: 7.396 min Scan# 2258
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion:129 Resp: 24214

Ion	Ratio	Lower	Upper
129	100		
127	78.2	39.4	118.2

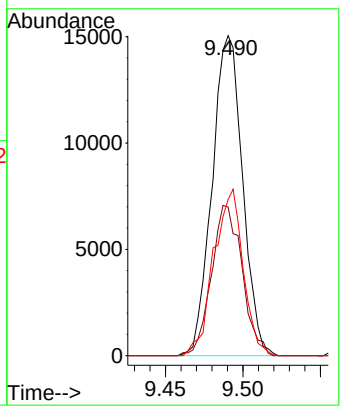




#49
Bromoform
Concen: 1.040 ppbv
RT: 9.490 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion:173 Resp: 2057

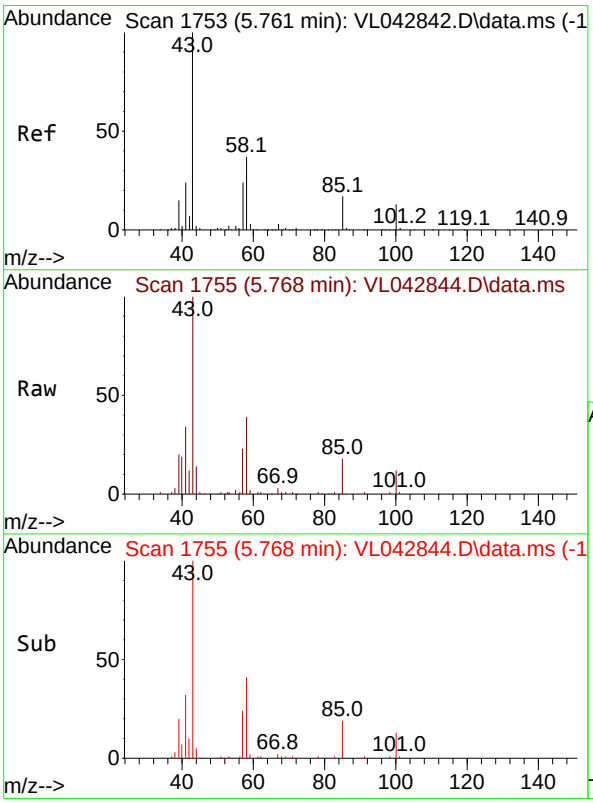
Ion	Ratio	Lower	Upper
173	100		
175	47.3	39.2	58.8
171	50.3	41.3	61.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

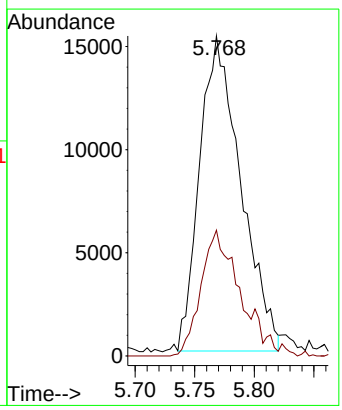
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

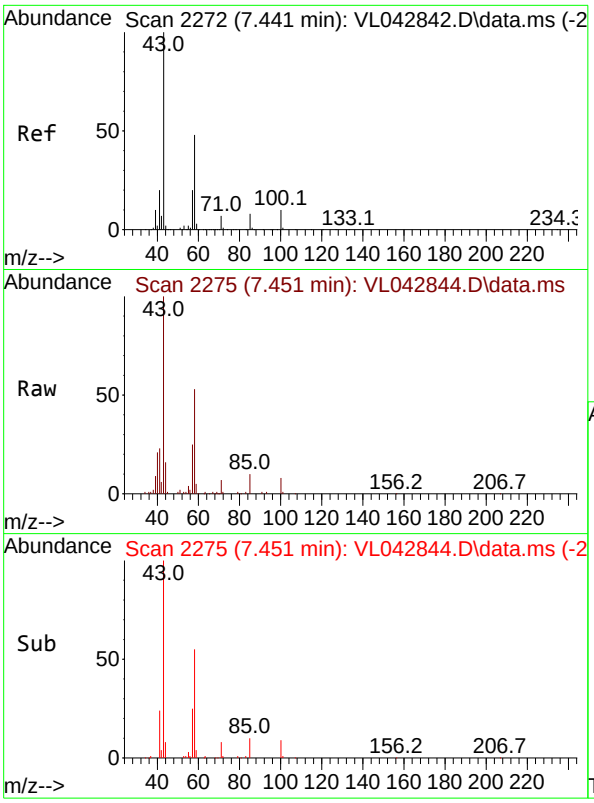


#50
4-Methyl-2-Pentanone
Concen: 1.001 ppbv
RT: 5.768 min Scan# 1755
Delta R.T. 0.007 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 43 Resp: 36710

Ion	Ratio	Lower	Upper
43	100		
58	38.3	29.8	44.8

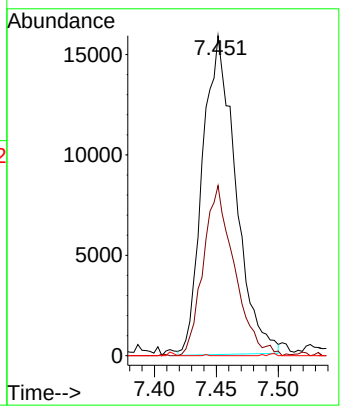




#51
2-Hexanone
Concen: 1.026 ppbv
RT: 7.451 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 43 Resp: 2948

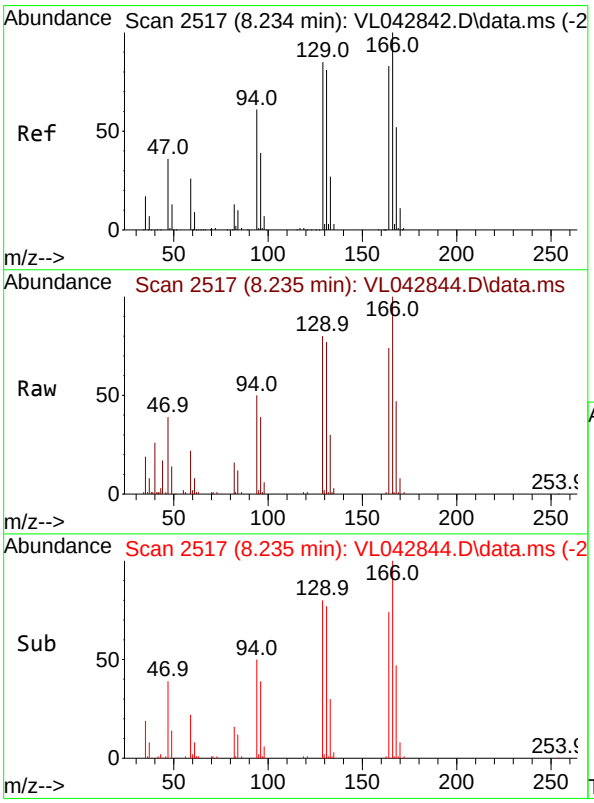
Ion	Ratio	Lower	Upper
43	100		
58	50.6	41.0	61.6
98	0.2	0.1	0.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

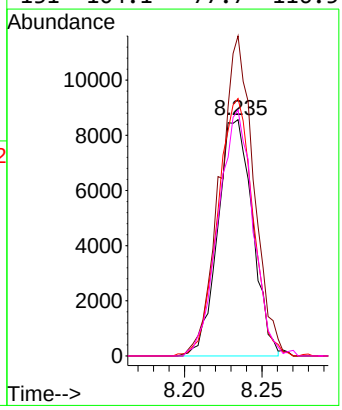
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

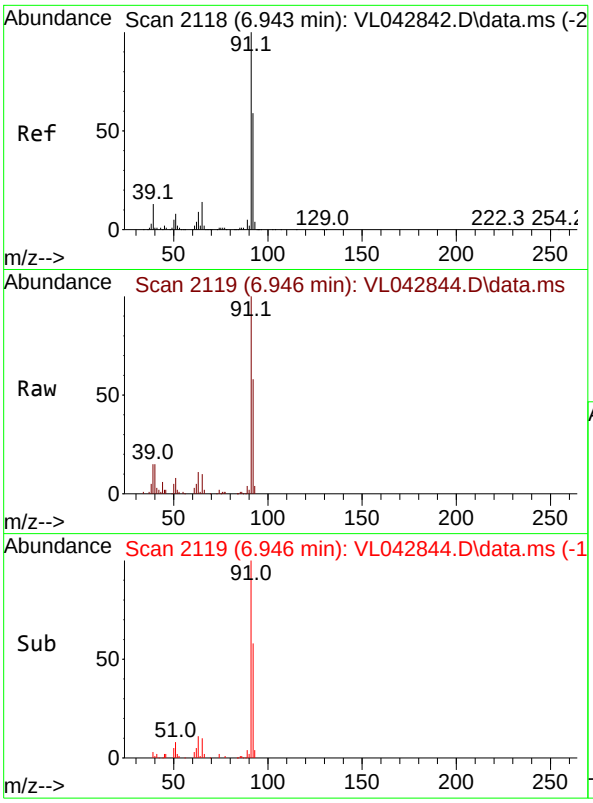


#52
Tetrachloroethene
Concen: 0.960 ppbv
RT: 8.235 min Scan# 2517
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

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

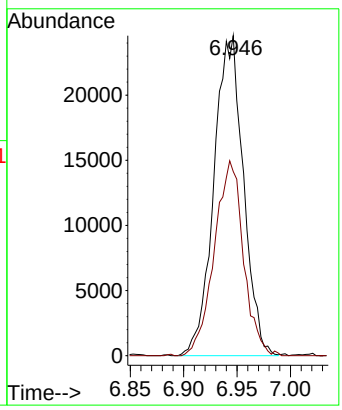




#53
Toluene
Concen: 1.036 ppbv
RT: 6.946 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 91 Resp: 4725

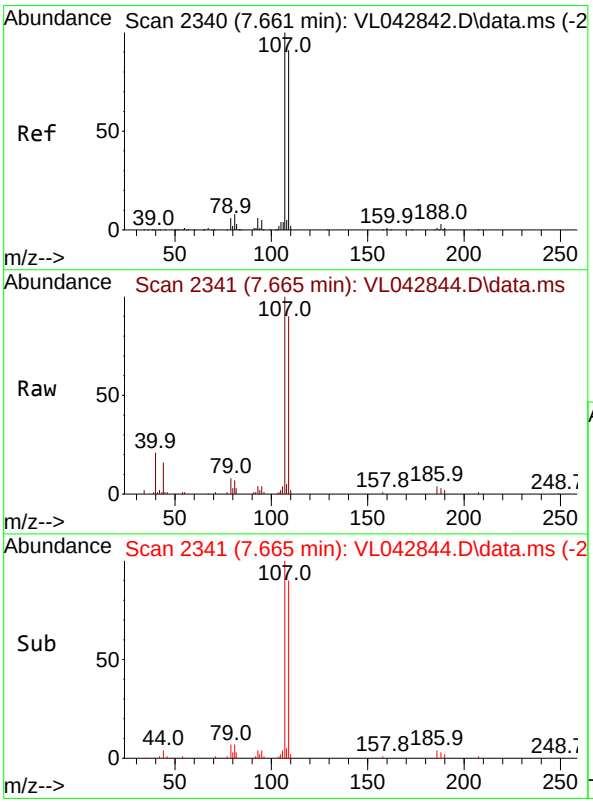
Ion	Ratio	Lower	Upper
91	100		
92	60.1	47.8	71.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

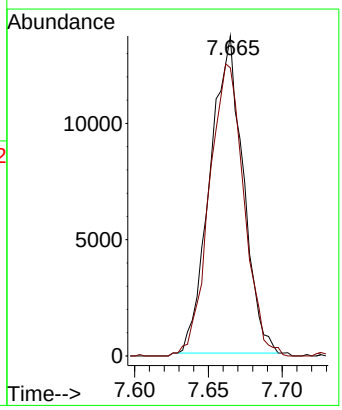
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

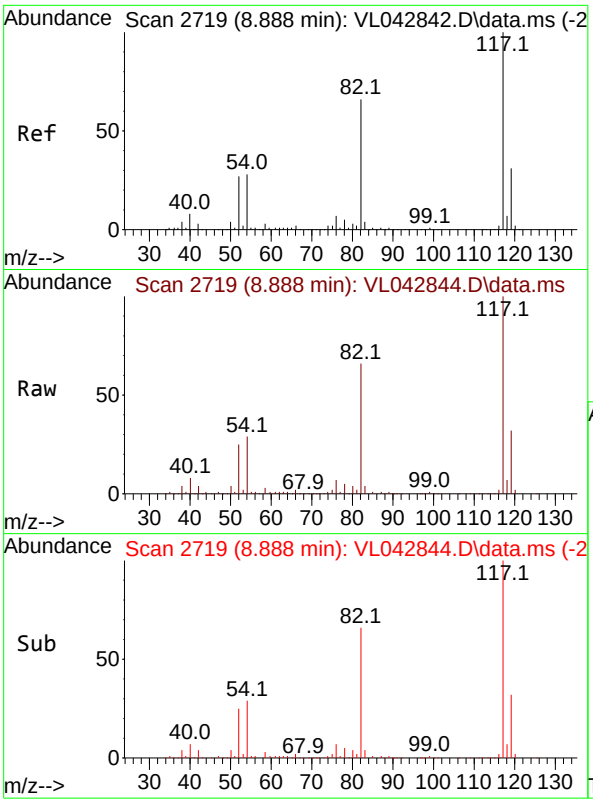


#54
1,2-Dibromoethane
Concen: 0.982 ppbv
RT: 7.665 min Scan# 2341
Delta R.T. 0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion:107 Resp: 21280

Ion	Ratio	Lower	Upper
107	100		
109	89.9	72.5	108.7

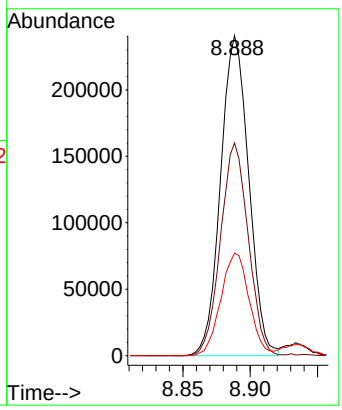




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion:117 Resp: 34957

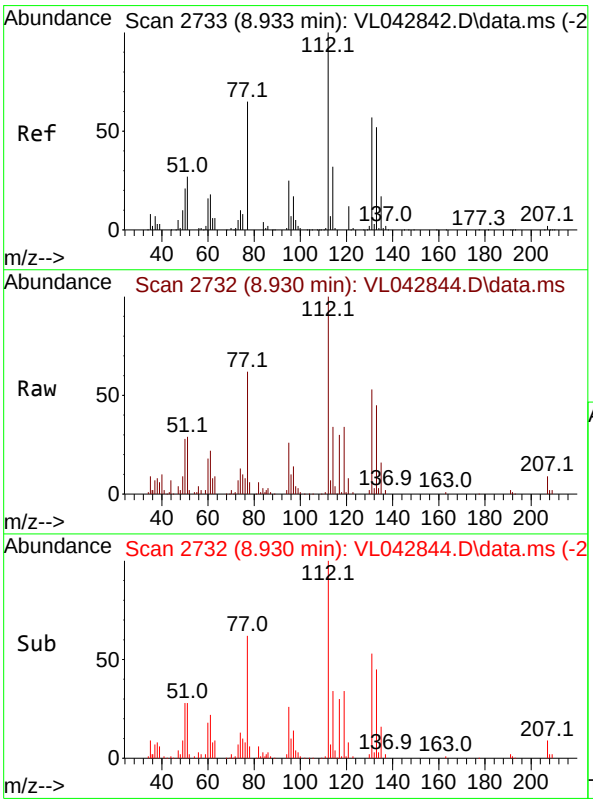
Ion	Ratio	Lower	Upper
117	100		
82	65.9	54.6	81.8
119	32.9	25.9	38.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

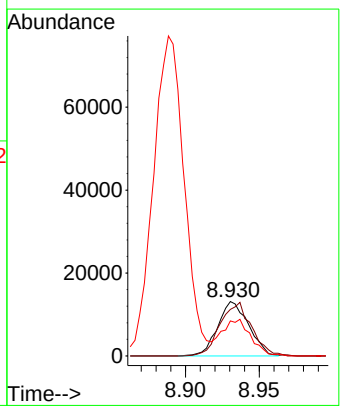
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

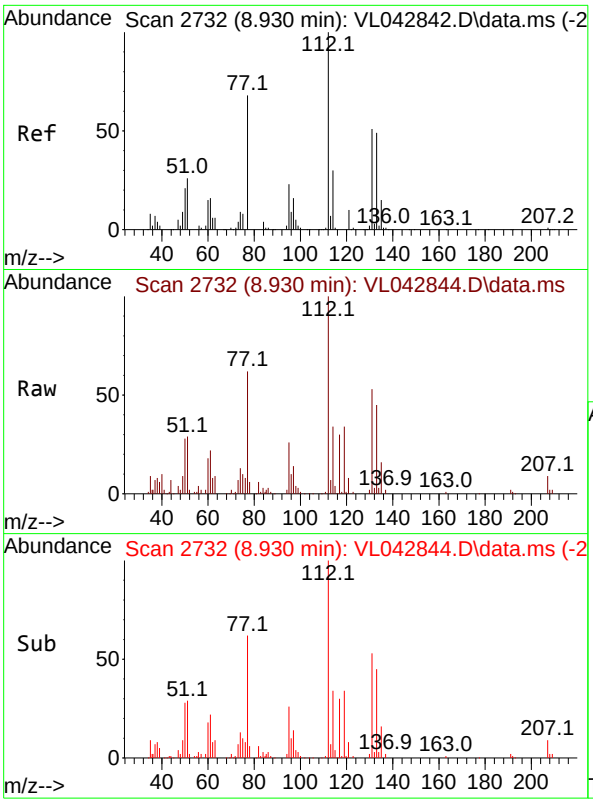


#56
1,1,1,2-Tetrachloroethane
Concen: 1.061 ppbv
RT: 8.930 min Scan# 2732
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

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

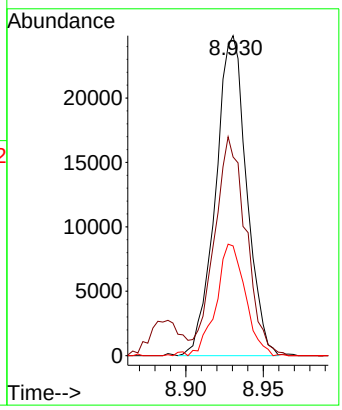




#57
Chlorobenzene
Concen: 1.041 ppbv
RT: 8.930 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion:112 Resp: 3461

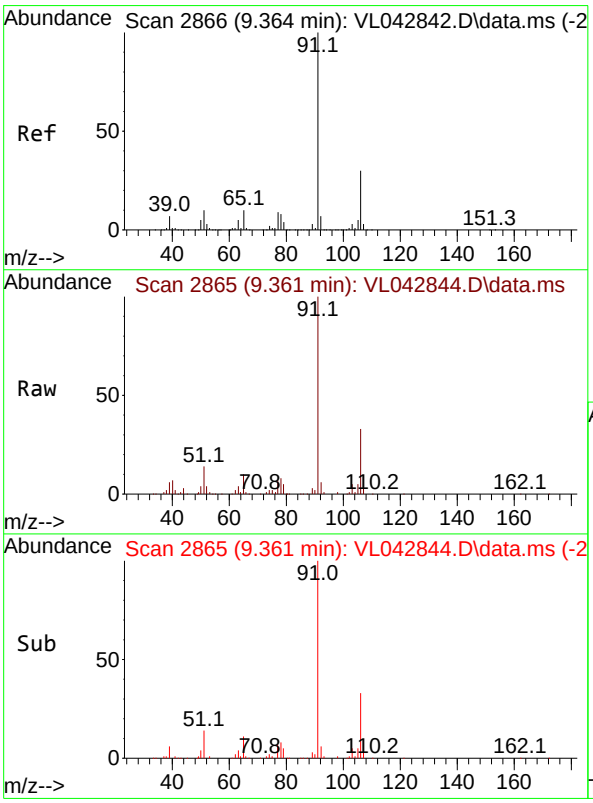
Ion	Ratio	Lower	Upper
112	100		
77	61.0	55.5	83.3
114	34.0	27.2	33.2#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

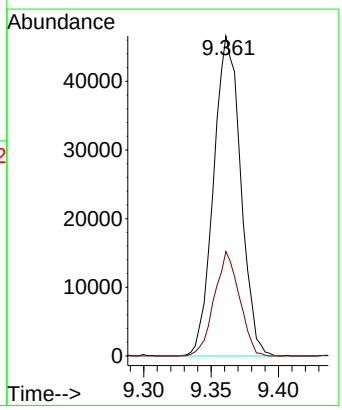
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

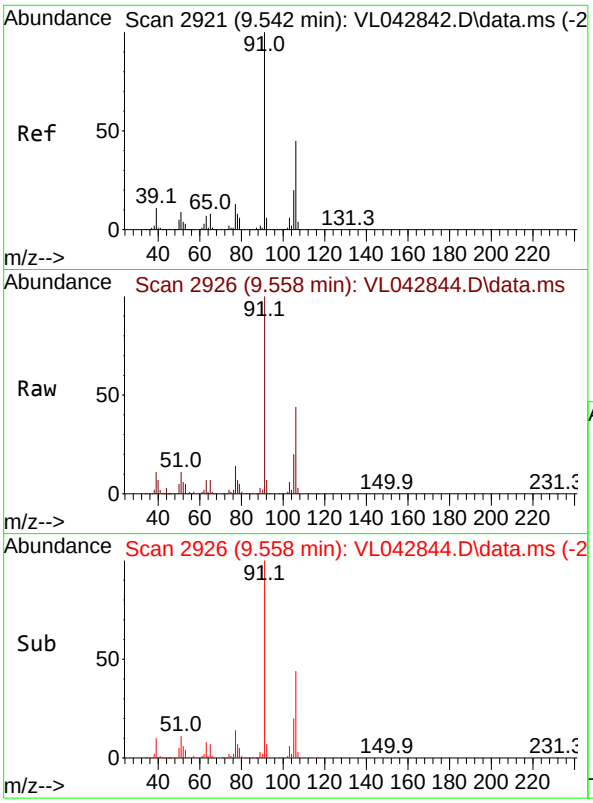


#58
Ethyl Benzene
Concen: 1.057 ppbv
RT: 9.361 min Scan# 2865
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 91 Resp: 65223

Ion	Ratio	Lower	Upper
91	100		
106	32.7	23.9	35.9

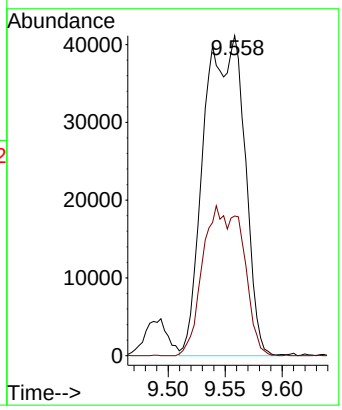




#59
m/p-Xylene
Concen: 2.098 ppbv m
RT: 9.558 min Scan# 2
Delta R.T. 0.016 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 91 Resp: 10163

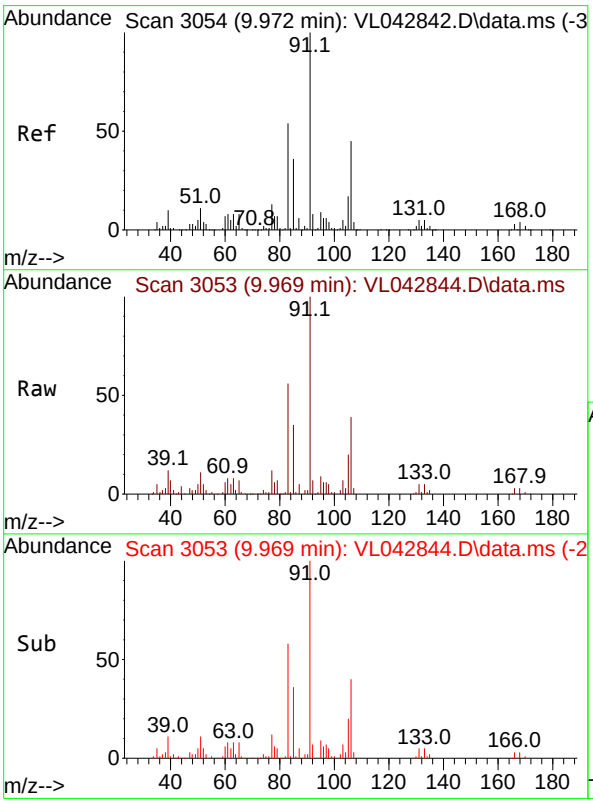
Ion	Ratio	Lower	Upper
91	100		
106	46.6	0.0	0.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
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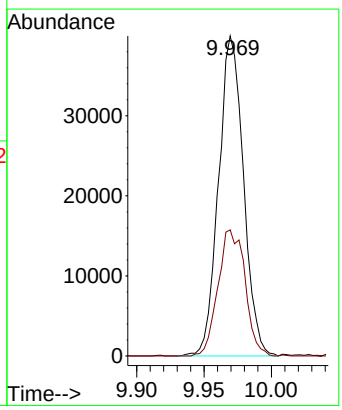
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

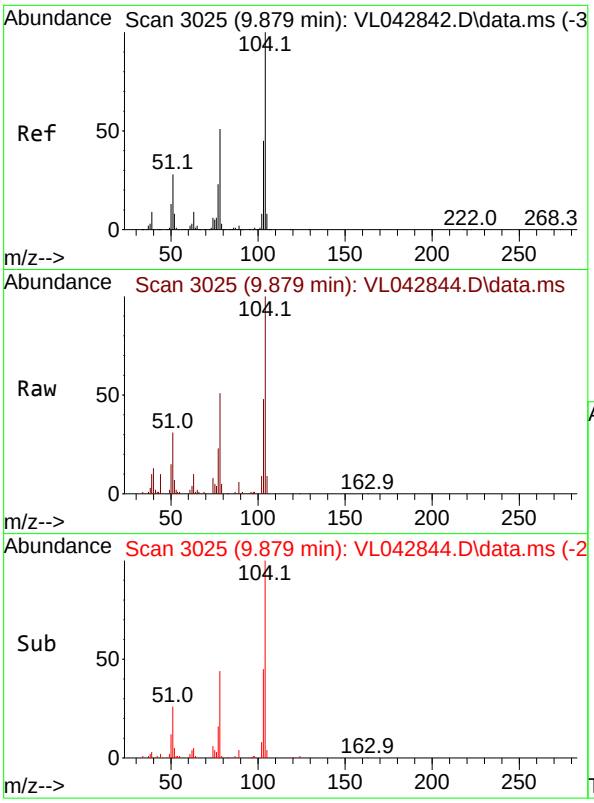


#60
o-Xylene
Concen: 1.058 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 91 Resp: 51445

Ion	Ratio	Lower	Upper
91	100		
106	42.8	21.8	65.4

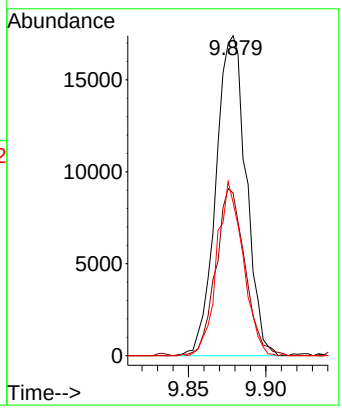




#61
Styrene
Concen: 1.038 ppbv
RT: 9.879 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

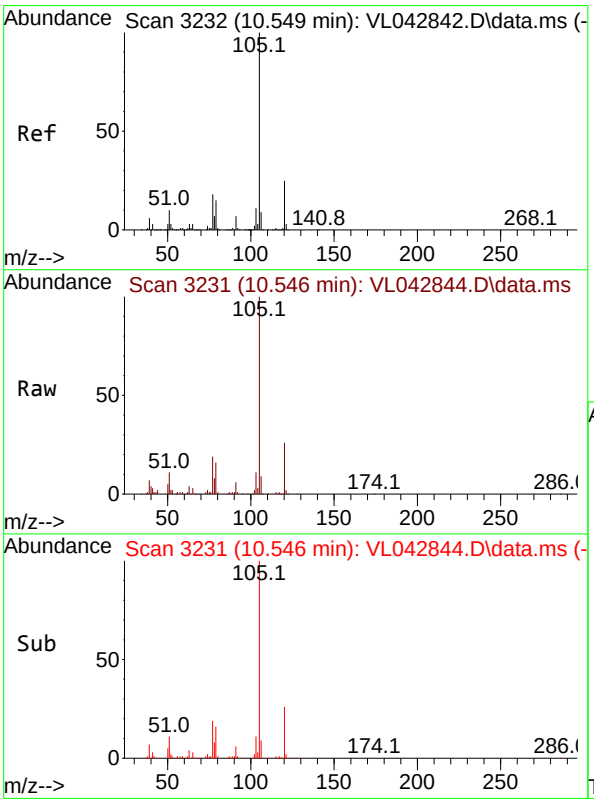
Tgt Ion:104 Resp: 2366

Ion	Ratio	Lower	Upper
104	100		
78	50.4	40.6	61.0
103	47.3	37.7	56.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

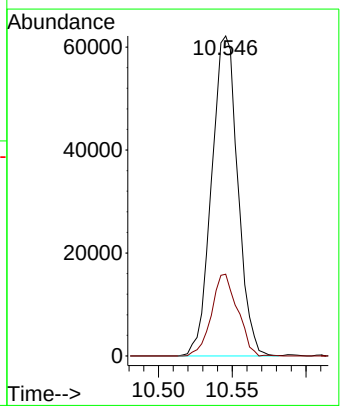
Manual Integrations
APPROVED
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

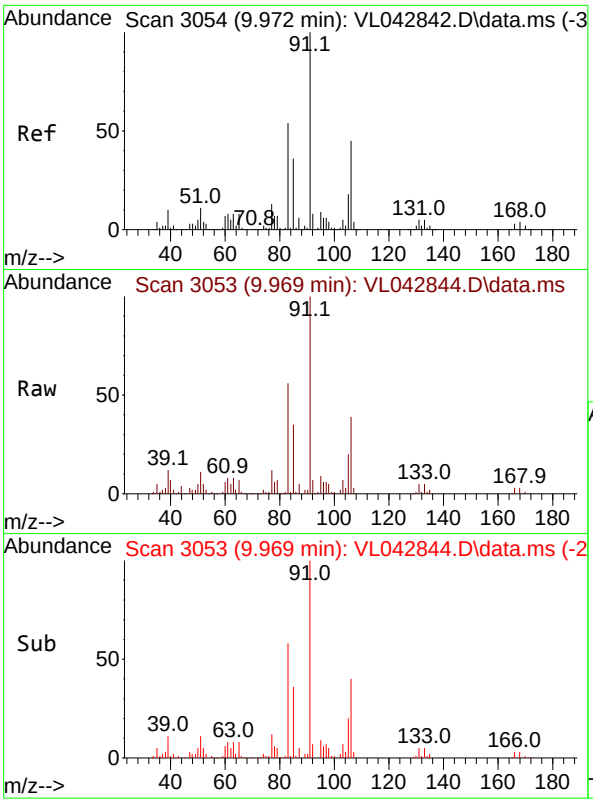


#62
Isopropylbenzene
Concen: 1.079 ppbv
RT: 10.546 min Scan# 3231
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

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# 3
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

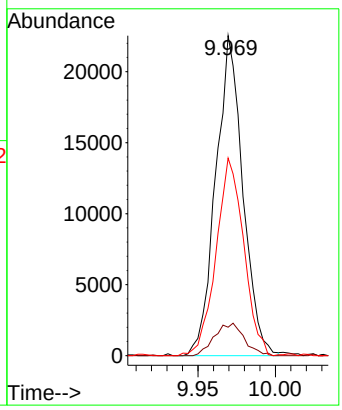
Tgt Ion: 83 Resp: 2741

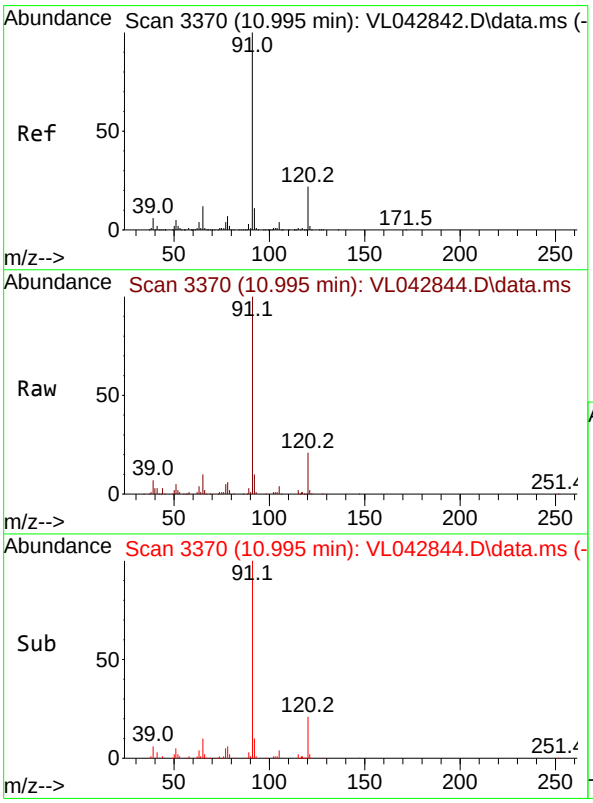
Ion	Ratio	Lower	Upper
83	100		
131	11.2	4.8	14.3
85	63.5	32.3	96.8

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

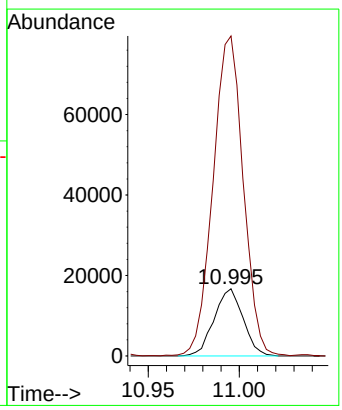


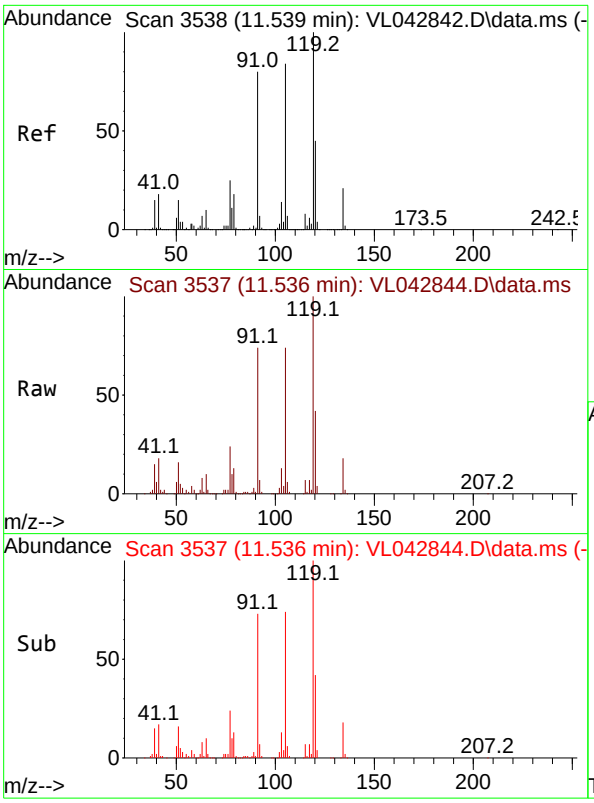


#64
n-propylbenzene
Concen: 1.018 ppbv
RT: 10.995 min Scan# 3370
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion:120 Resp: 18462

Ion	Ratio	Lower	Upper
120	100		
91	496.0	375.8	563.6

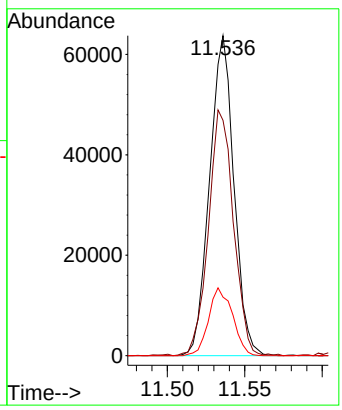




#65
tert-Butylbenzene
Concen: 1.111 ppbv
RT: 11.536 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion:119 Resp: 6961

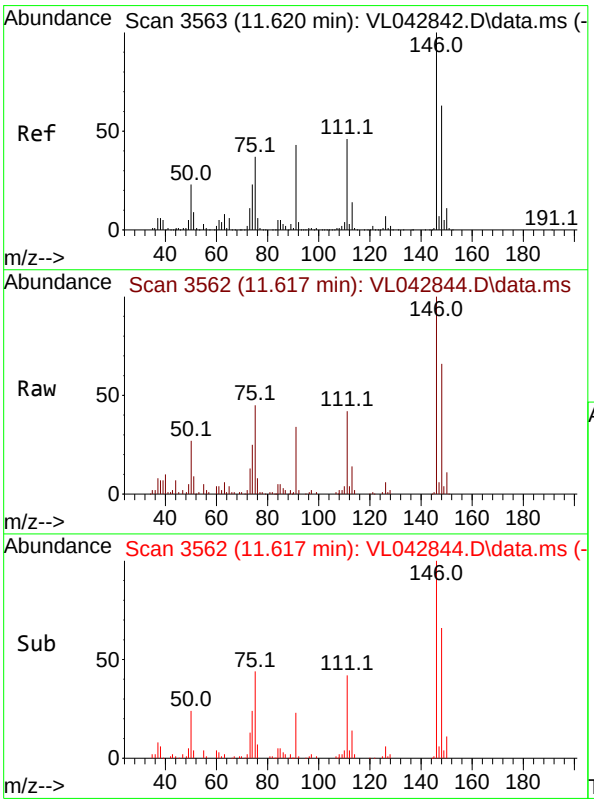
Ion	Ratio	Lower	Upper
119	100		
91	79.3	63.9	95.9
134	20.9	17.0	25.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
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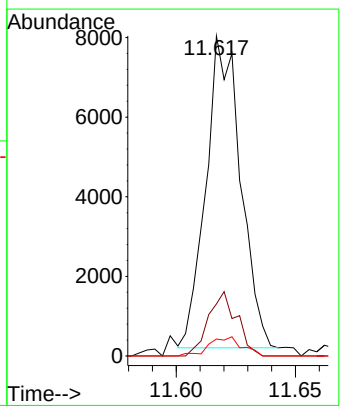
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

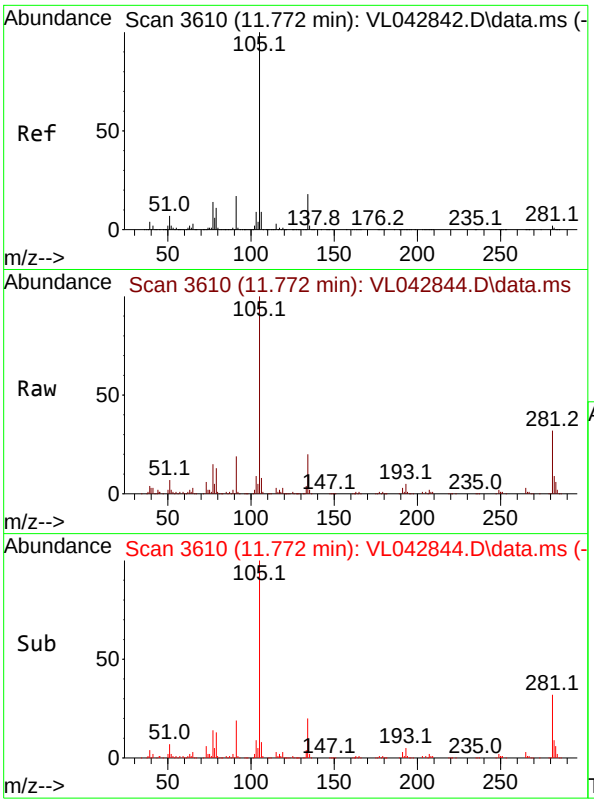


#66
Benzyl Chloride
Concen: 0.993 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

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

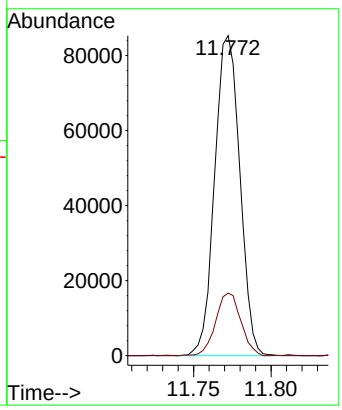




#67
sec-Butylbenzene
Concen: 1.095 ppbv
RT: 11.772 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion:105 Resp: 9628

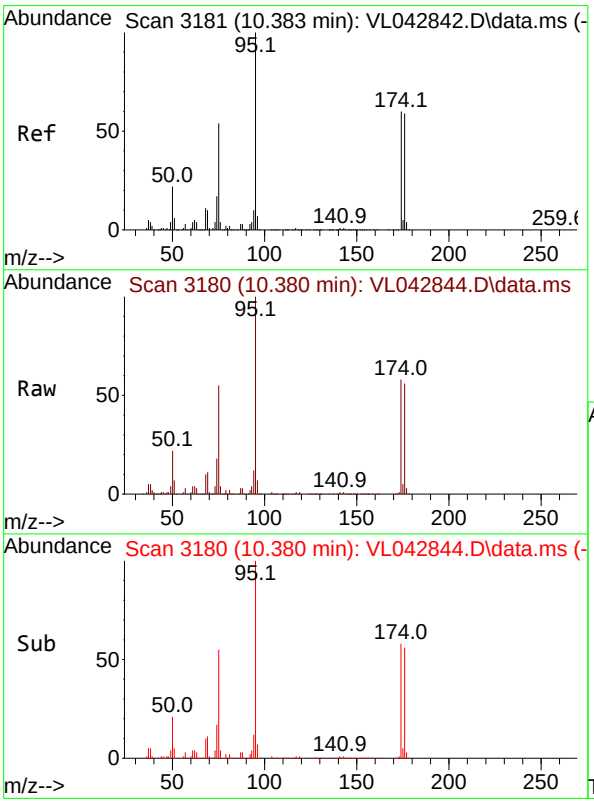
Ion	Ratio	Lower	Upper
105	100		
134	19.7	14.9	22.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
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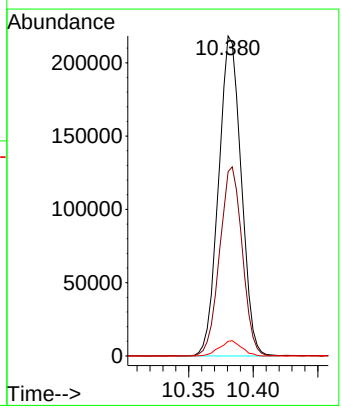
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

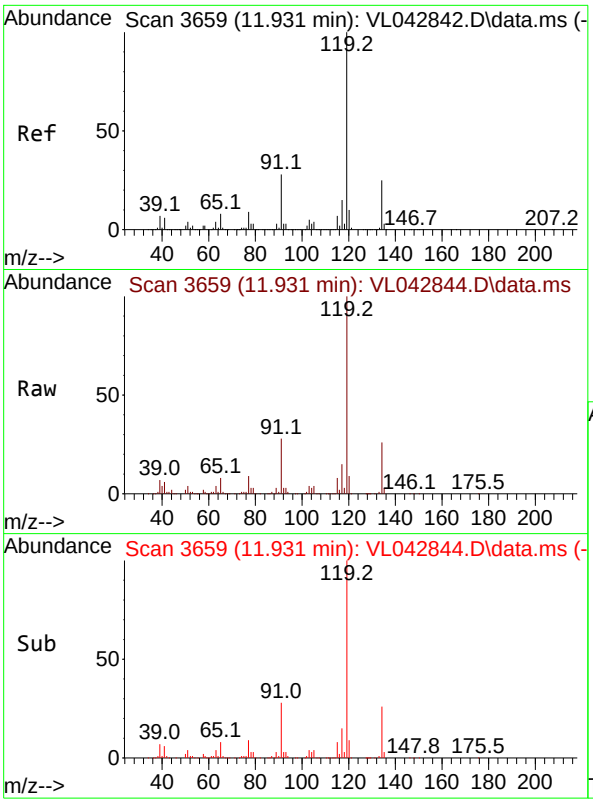


#68
1-Bromo-4-Fluorobenzene
Concen: 10.135 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

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

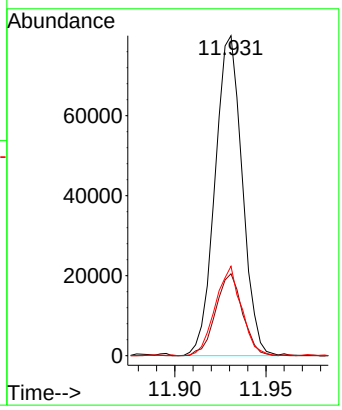




#69
p-Isopropyltoluene
Concen: 1.098 ppbv
RT: 11.931 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion:119 Resp: 8293

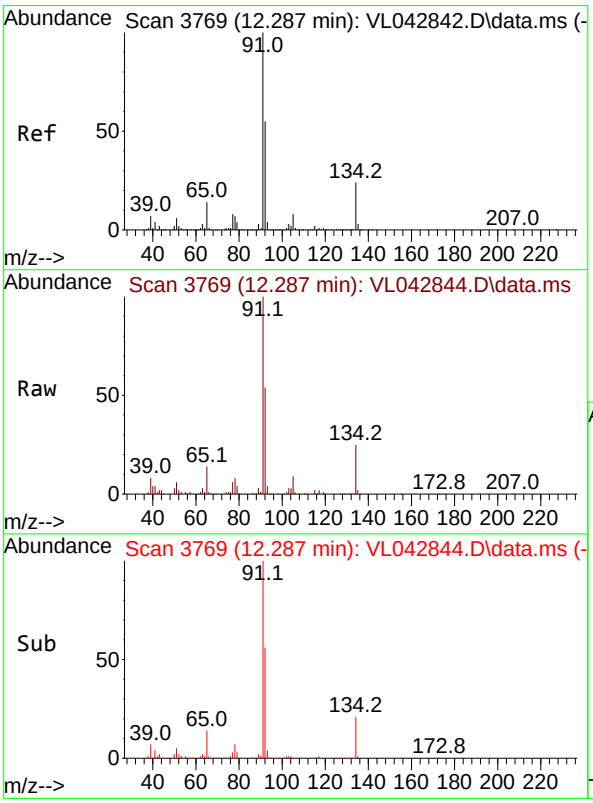
Ion	Ratio	Lower	Upper
119	100		
134	25.3	20.6	30.8
91	27.2	22.6	34.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

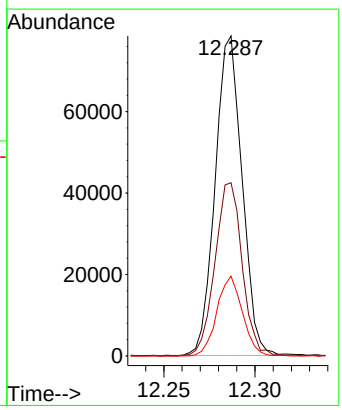
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

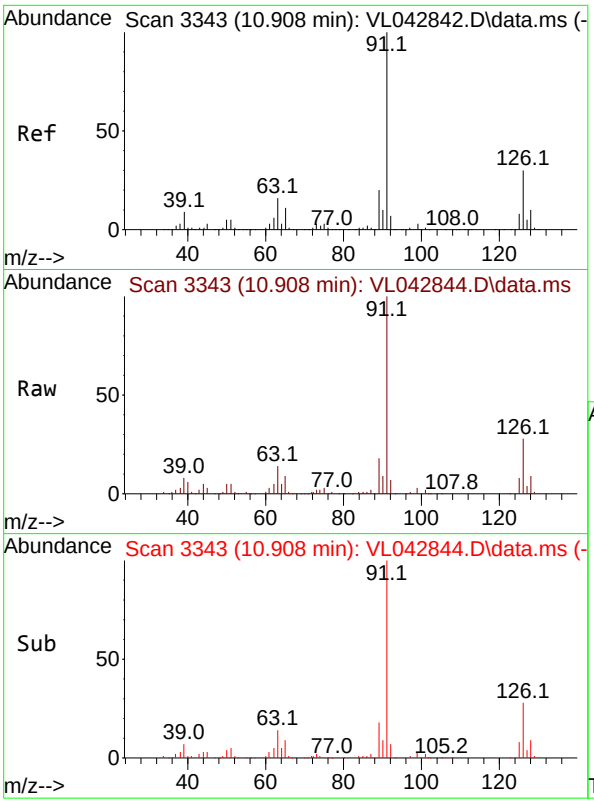


#70
n-Butylbenzene
Concen: 1.075 ppbv
RT: 12.287 min Scan# 3769
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

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

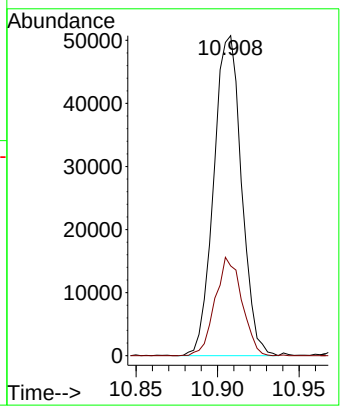




#71
2-Chlorotoluene
Concen: 1.089 ppbv
RT: 10.908 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 91 Resp: 6008

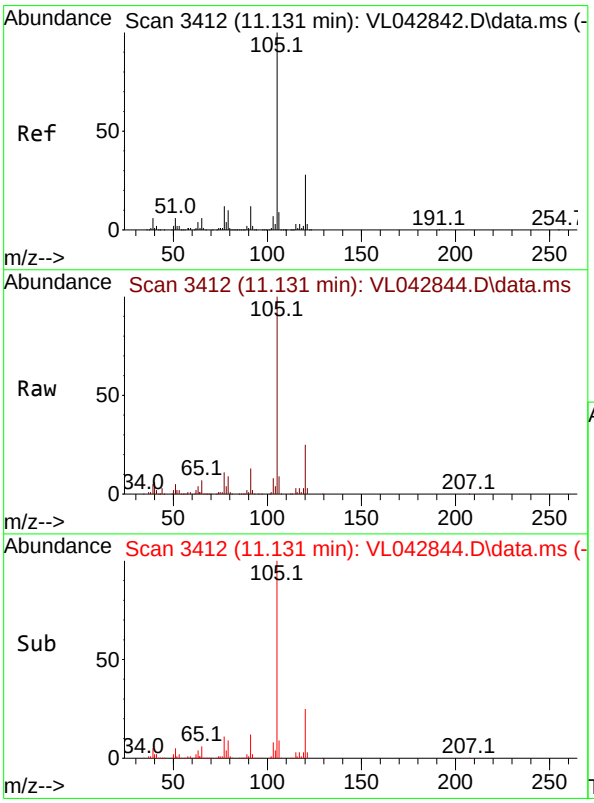
Ion	Ratio	Lower	Upper
91	100		
126	29.7	12.0	47.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

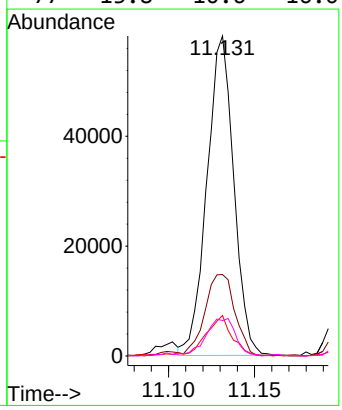
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

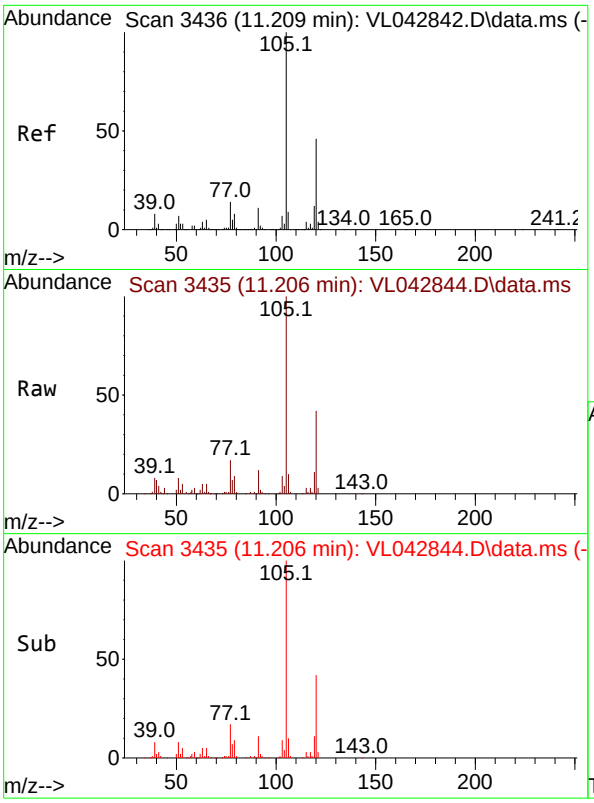


#72
4-Ethyltoluene
Concen: 1.071 ppbv
RT: 11.131 min Scan# 3412
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

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

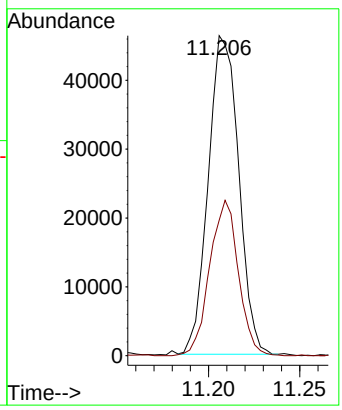




#73
1,3,5-Trimethylbenzene
Concen: 1.070 ppbv
RT: 11.206 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion:105 Resp: 5367

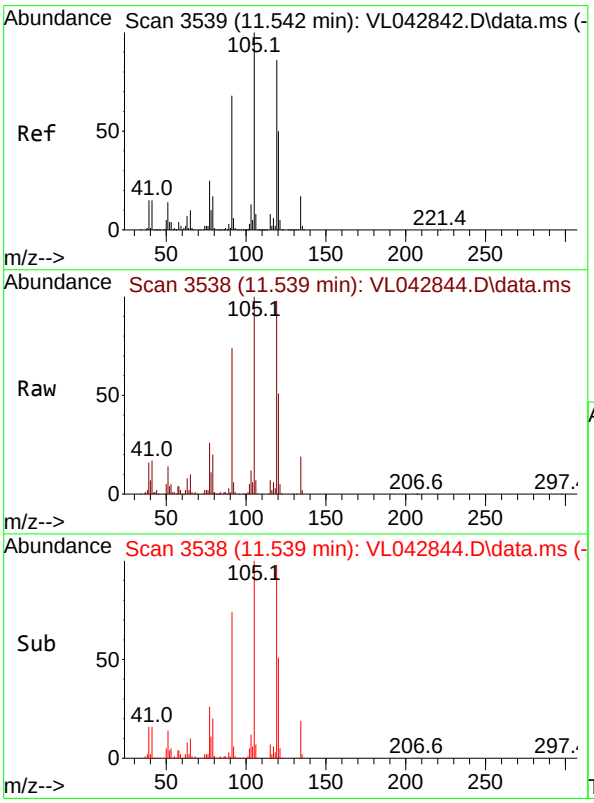
Ion	Ratio	Lower	Upper
105	100		
120	42.3	36.6	54.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
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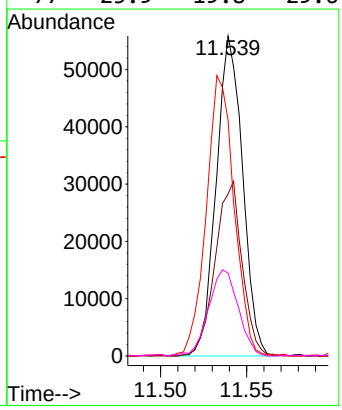
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

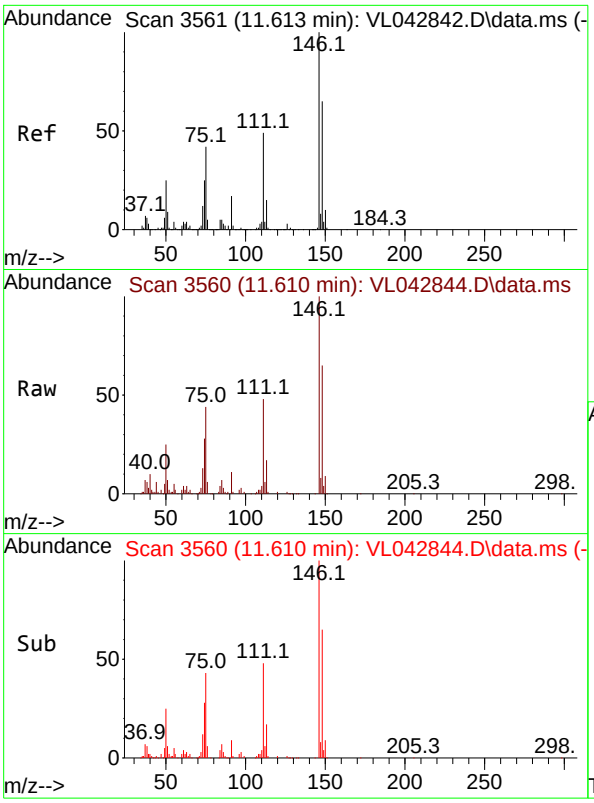


#74
1,2,4-Trimethylbenzene
Concen: 1.083 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

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

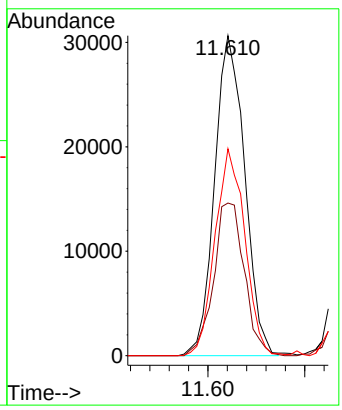




#75
1,3-Dichlorobenzene
Concen: 1.057 ppbv
RT: 11.610 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion:146 Resp: 3306

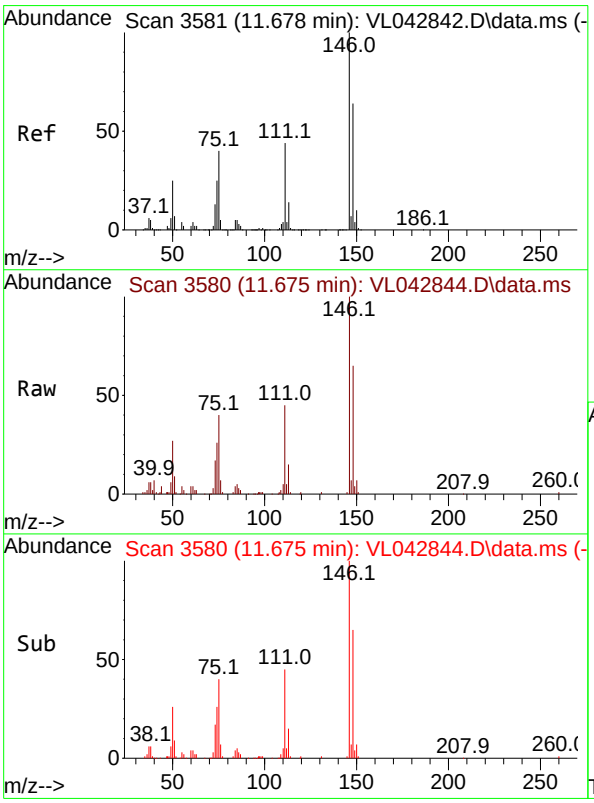
Ion	Ratio	Lower	Upper
146	100		
111	48.6	23.9	71.7
148	64.1	31.4	94.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

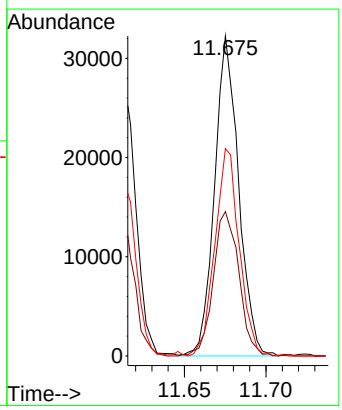
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

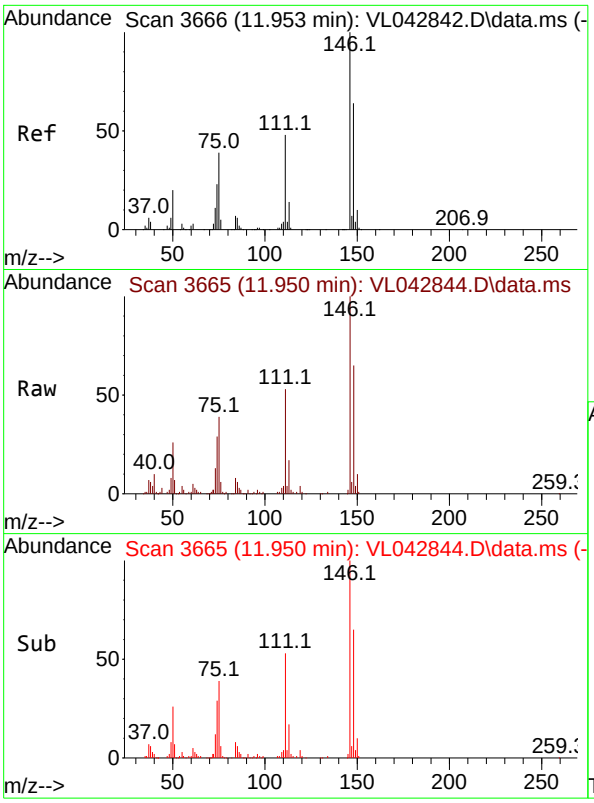


#76
1,4-Dichlorobenzene
Concen: 1.045 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

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

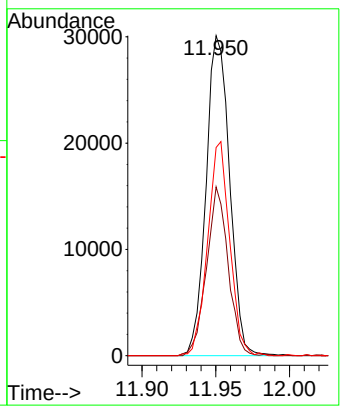




#77
1,2-Dichlorobenzene
Concen: 1.090 ppbv
RT: 11.950 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion:146 Resp: 3340

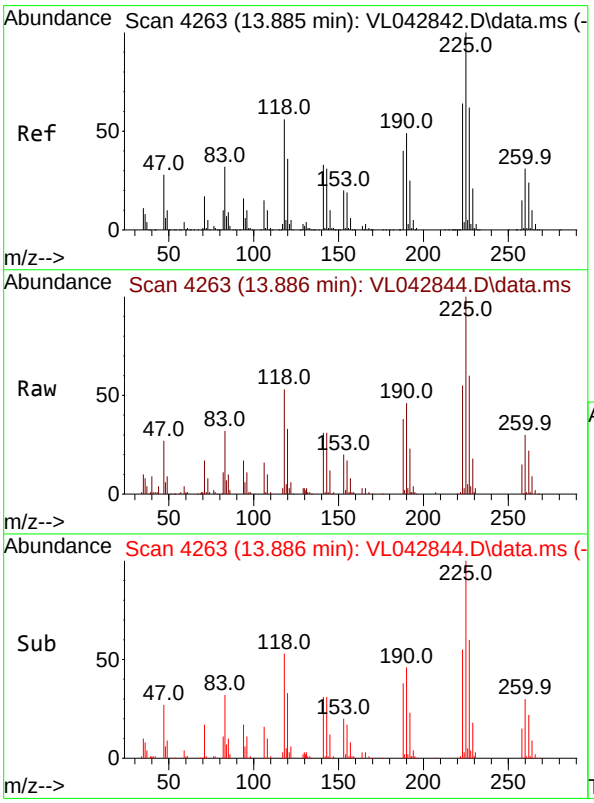
Ion	Ratio	Lower	Upper
146	100		
111	48.4	24.6	74.0
148	62.7	32.0	96.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

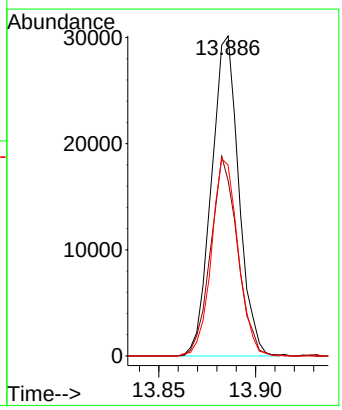
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

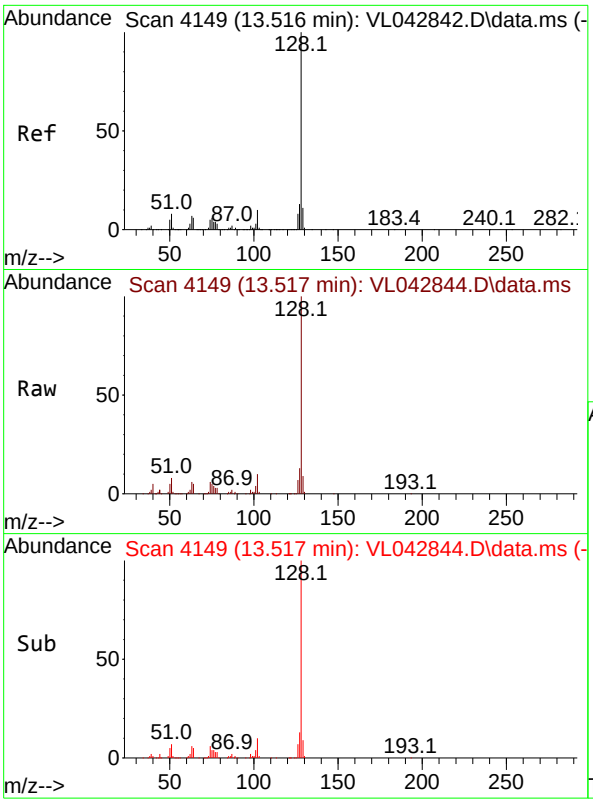


#78
Hexachloro-1,3-Butadiene
Concen: 1.177 ppbv
RT: 13.886 min Scan# 4263
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

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

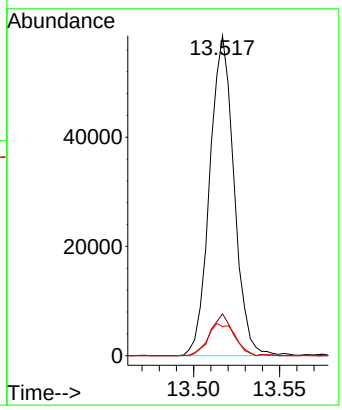




#79
Naphthalene
Concen: 1.169 ppbv
RT: 13.517 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion:128 Resp: 5758

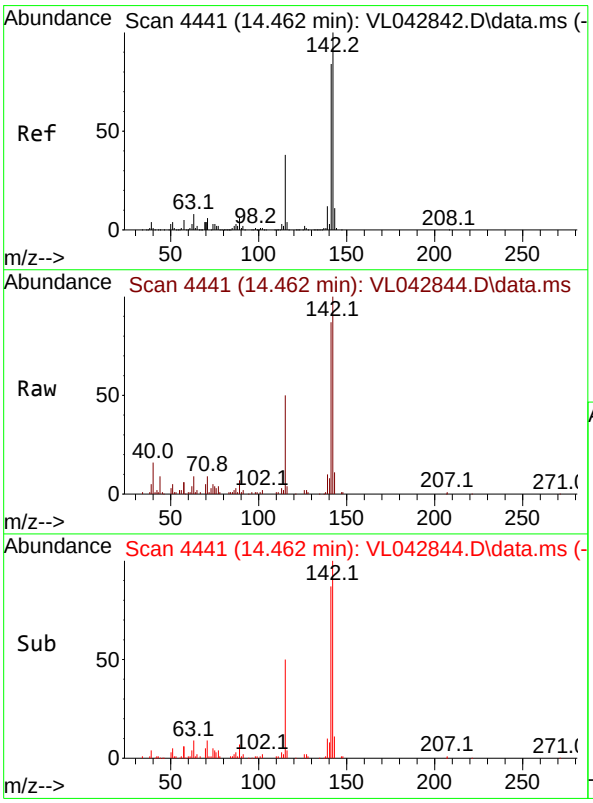
Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.6	16.0
129	9.1	8.9	13.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

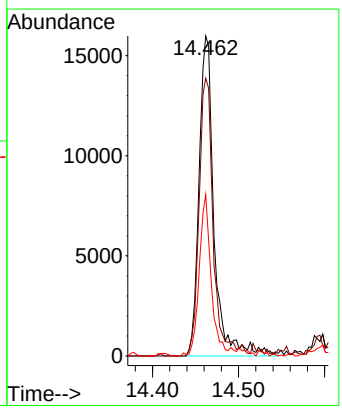
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

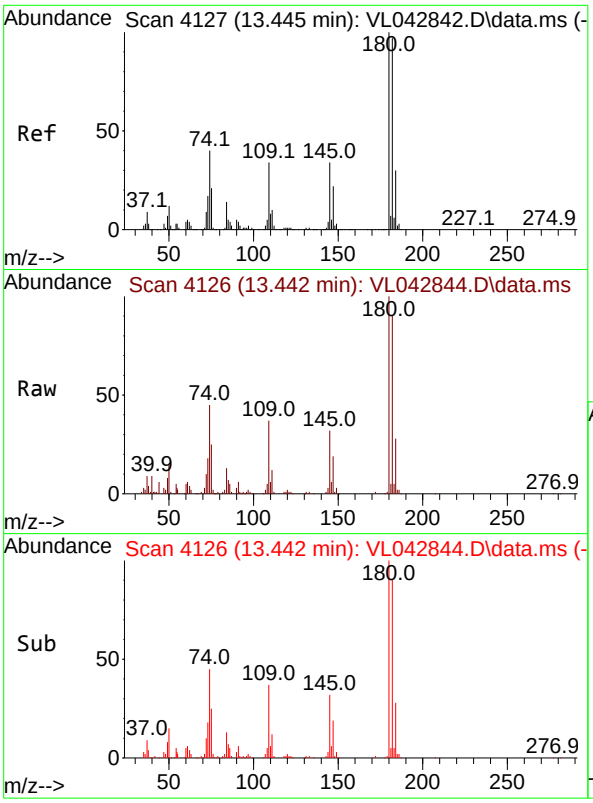


#80
Naphthalene,2-methyl-
Concen: 1.045 ppbv
RT: 14.462 min Scan# 4441
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

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

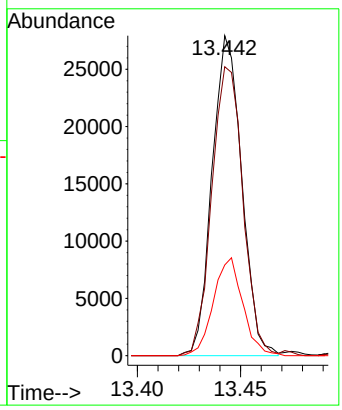




#81
1,2,4-Trichlorobenzene
Concen: 1.111 ppbv
RT: 13.442 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

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



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

Quantitation Report (QT Reviewed)

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

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 1
QLast Update : Thu Aug 14 01:44:36 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.797	49	126879	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.968	114	396264	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.895	117	348005	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.387	95	262663	10.064	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.600%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.502	85	9937	0.534	ppbv		100
3) Chlorodifluoromethane	1.479	51	11115	0.540	ppbv		96
4) Chloromethane	1.538	50	4112	0.548	ppbv		90
5) Vinyl Chloride	1.586	62	3762	0.509	ppbv		94
6) Bromomethane	1.674	94	1576	0.533	ppbv		82
7) Chloroethane	1.709	64	1690	0.586	ppbv	#	85
8) Dichlorotetrafluoroethane	1.557	85	8079	0.531	ppbv		95
9) Propene	1.489	41	5225	0.589	ppbv		91
10) Heptane	4.998	43	12747	0.537	ppbv		93
11) Trichlorofluoromethane	1.884	101	10238	0.558	ppbv		98
12) 1,1,2-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		

Quantitation Report (QT Reviewed)

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

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 1
QLast Update : Thu Aug 14 01:44:36 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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)
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

Quantitation Report (QT Reviewed)

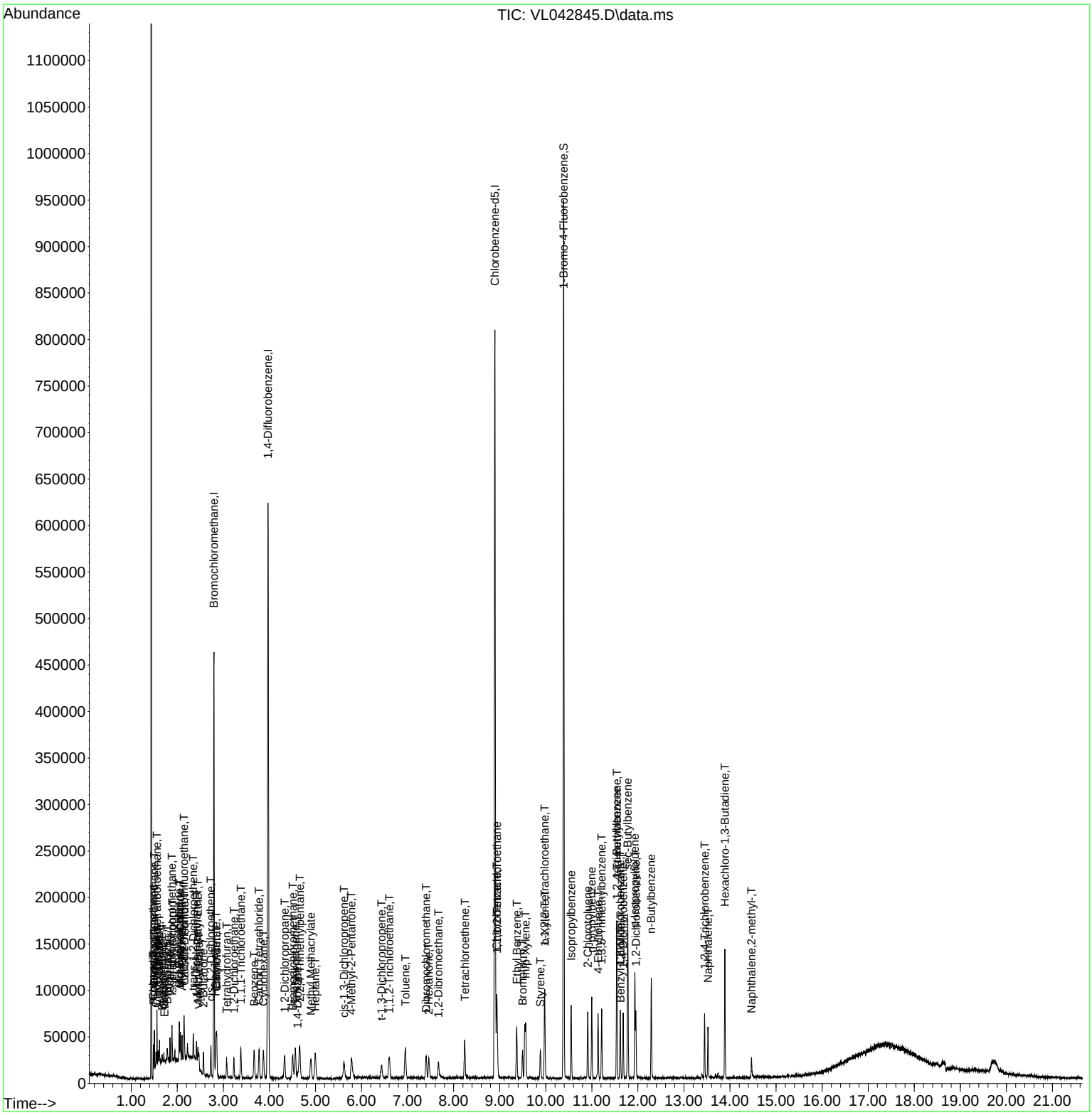
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
Data File : VL042845.D
Acq On : 13 Aug 2025 10:17
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

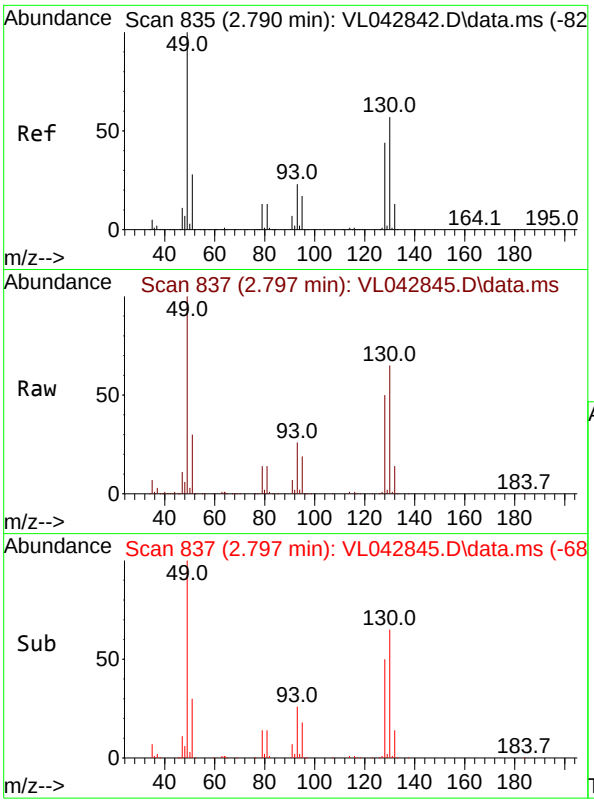
Quant Time: Aug 14 01:48:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Aug 14 01:44:36 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

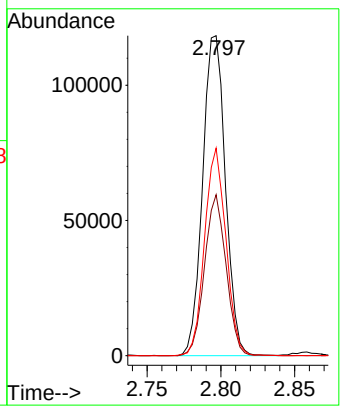




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 8
Delta R.T. 0.007 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 49 Resp: 12687

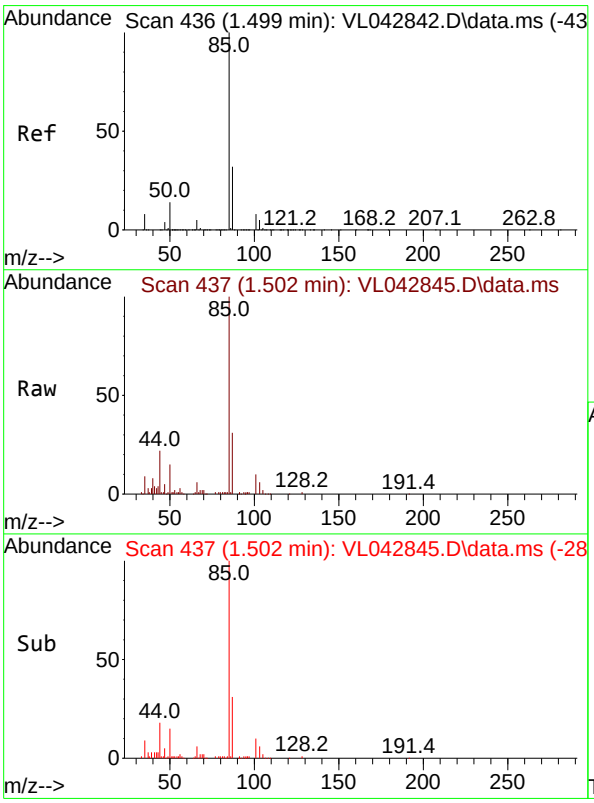
Ion	Ratio	Lower	Upper
49	100		
128	47.7	23.7	71.1
130	60.9	30.6	91.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

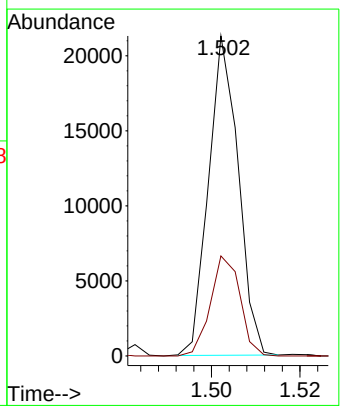
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

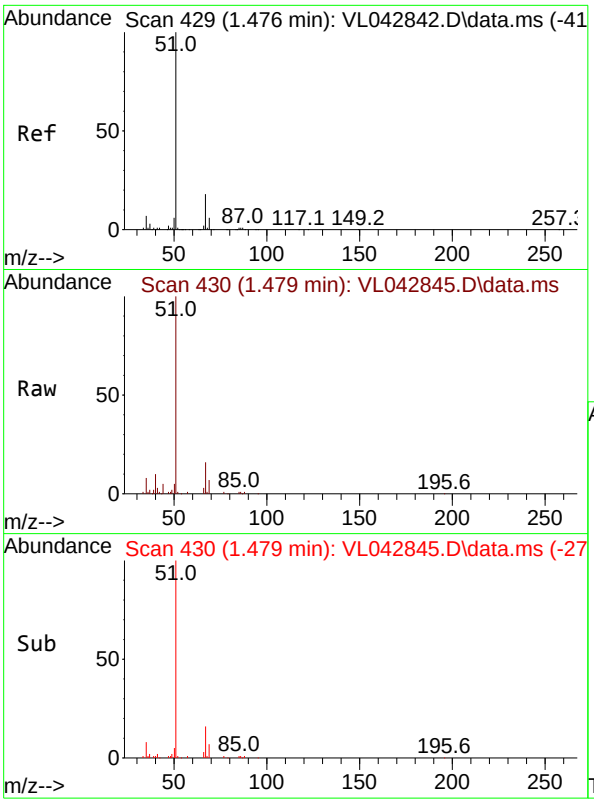


#2
Dichlorodifluoromethane
Concen: 0.534 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 85 Resp: 9937

Ion	Ratio	Lower	Upper
85	100		
87	31.3	25.3	37.9

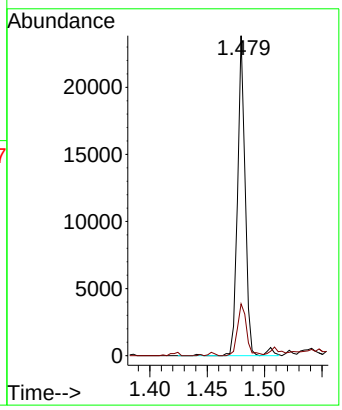




#3
Chlorodifluoromethane
Concen: 0.540 ppbv
RT: 1.479 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 51 Resp: 1111

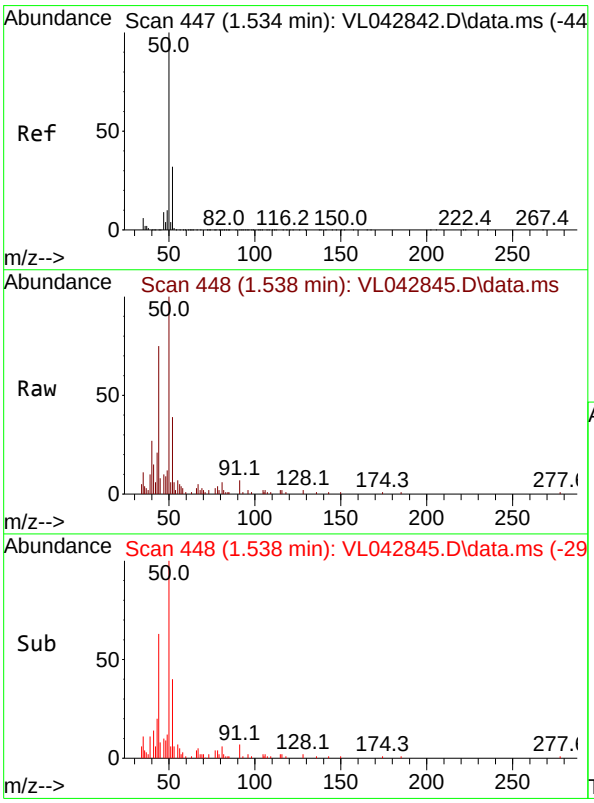
Ion	Ratio	Lower	Upper
51	100		
67	20.5	14.9	22.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

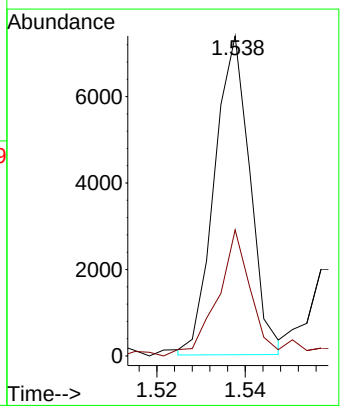
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

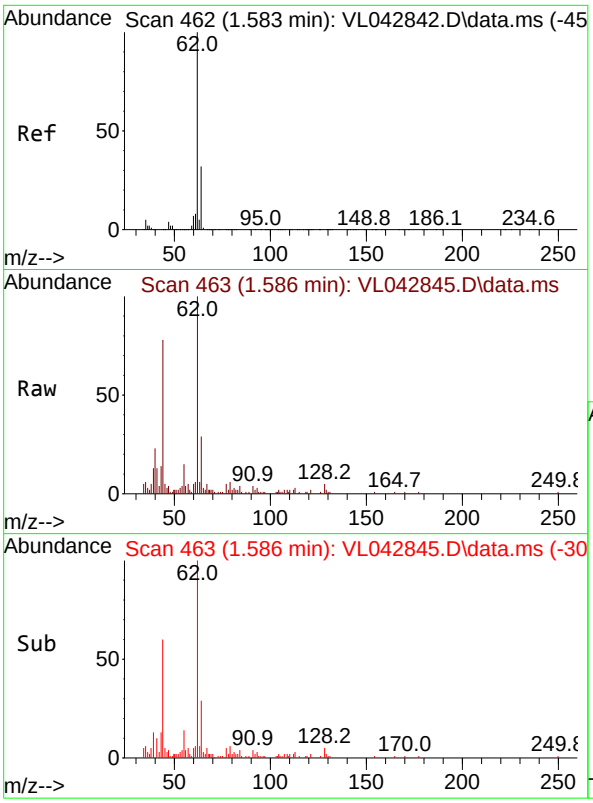


#4
Chloromethane
Concen: 0.548 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 50 Resp: 4112

Ion	Ratio	Lower	Upper
50	100		
52	38.2	25.9	38.9

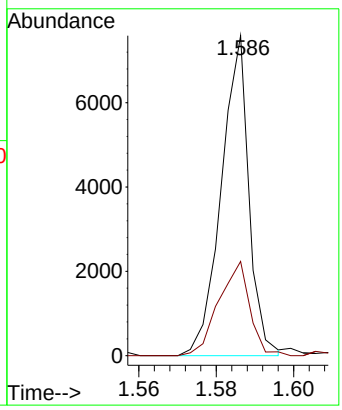




#5
Vinyl Chloride
Concen: 0.509 ppbv
RT: 1.586 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 62 Resp: 376

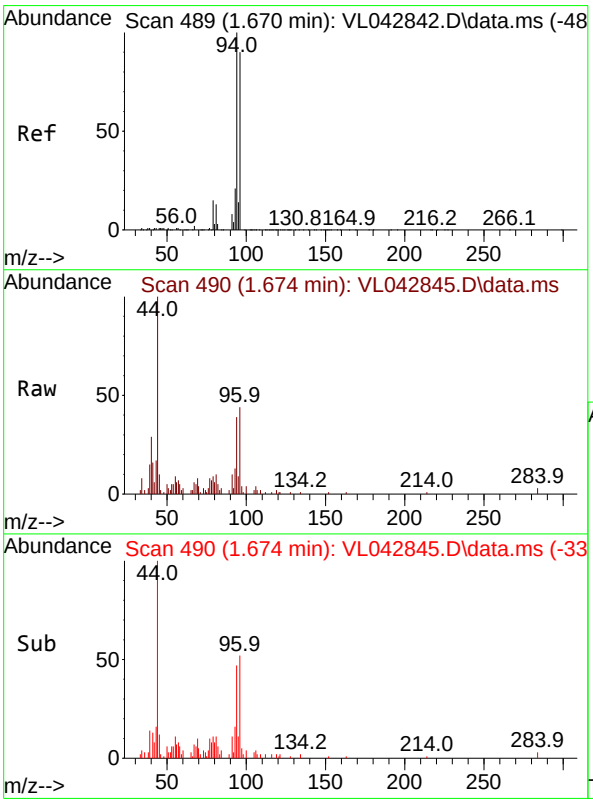
Ion	Ratio	Lower	Upper
62	100		
64	28.3	25.4	38.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

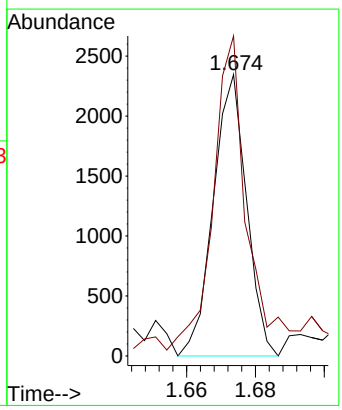
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

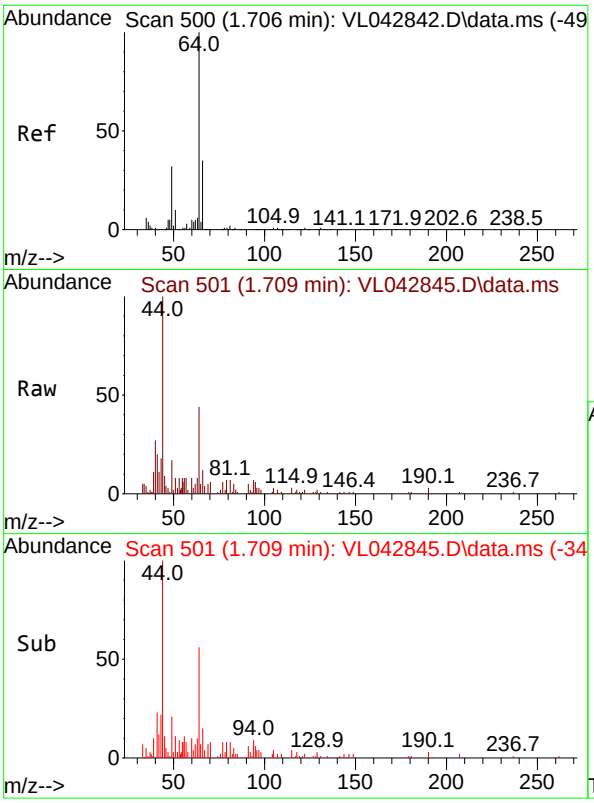


#6
Bromomethane
Concen: 0.533 ppbv
RT: 1.674 min Scan# 490
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 94 Resp: 1576

Ion	Ratio	Lower	Upper
94	100		
96	106.9	72.1	108.1

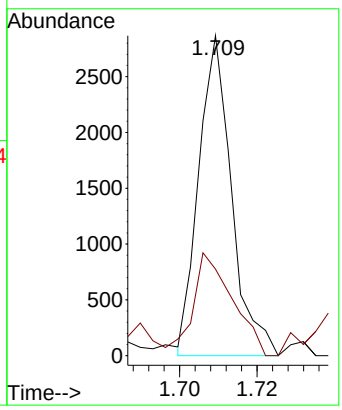




#7
Chloroethane
Concen: 0.586 ppbv
RT: 1.709 min Scan# 5(
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 64 Resp: 169(

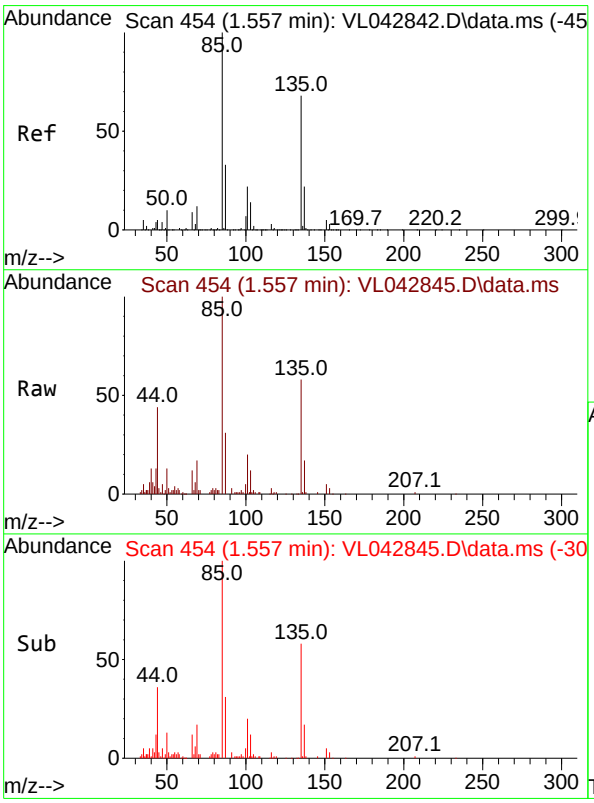
Ion	Ratio	Lower	Upper
64	100		
66	27.0	28.6	42.8#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

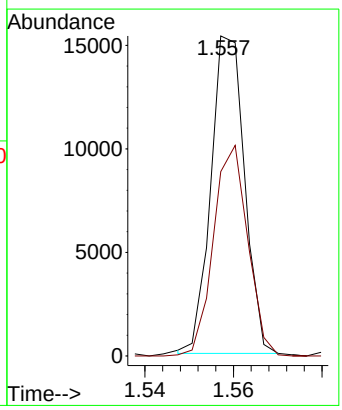
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

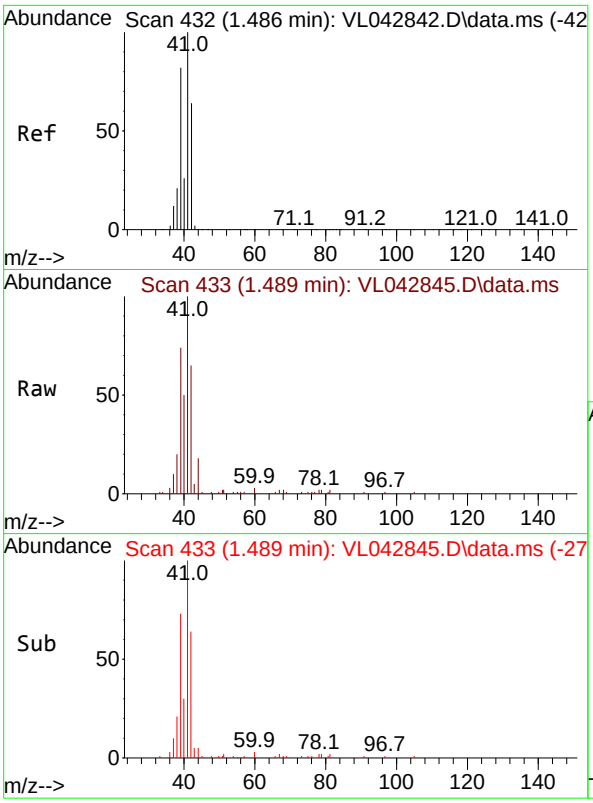


#8
Dichlorotetrafluoroethane
Concen: 0.531 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.000 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 85 Resp: 8079

Ion	Ratio	Lower	Upper
85	100		
135	67.7	51.2	76.8

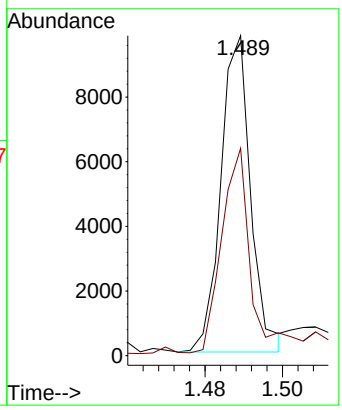




#9
Propene
Concen: 0.589 ppbv
RT: 1.489 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 41 Resp: 522

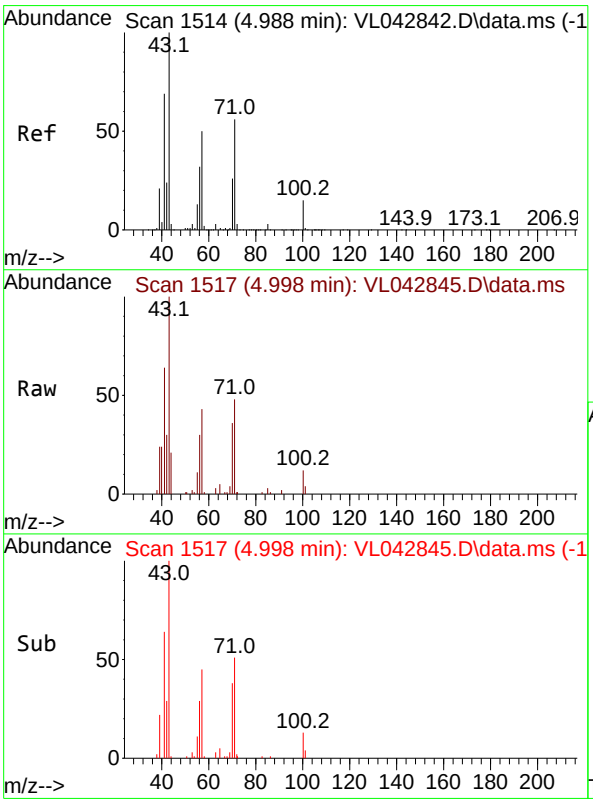
Ion	Ratio	Lower	Upper
41	100		
42	73.7	53.0	79.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

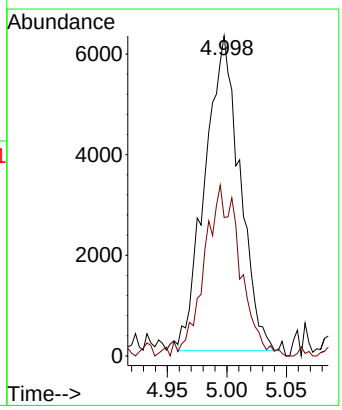
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

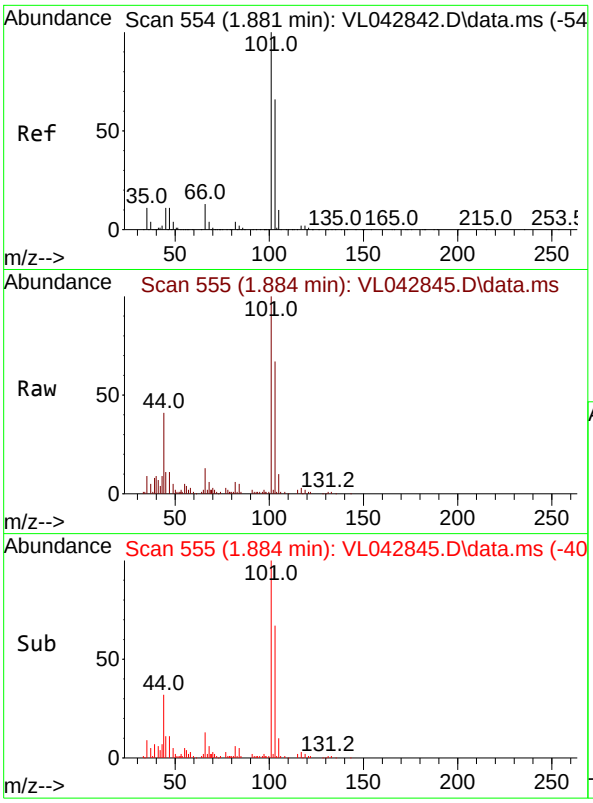


#10
Heptane
Concen: 0.537 ppbv
RT: 4.998 min Scan# 1517
Delta R.T. 0.010 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 43 Resp: 12747

Ion	Ratio	Lower	Upper
43	100		
57	56.9	41.4	62.0

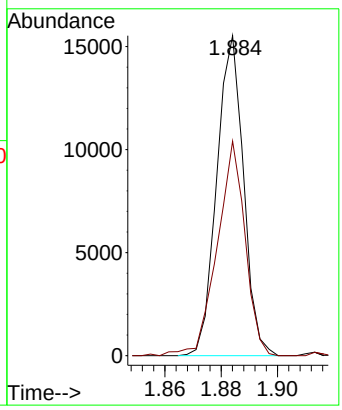




#11
Trichlorofluoromethane
Concen: 0.558 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion:101 Resp: 1023

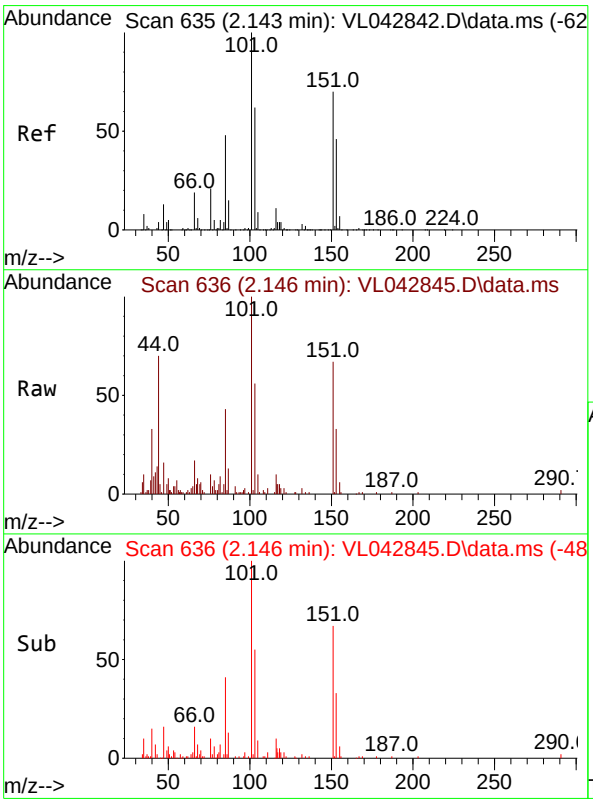
Ion	Ratio	Lower	Upper
101	100		
103	67.0	52.5	78.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

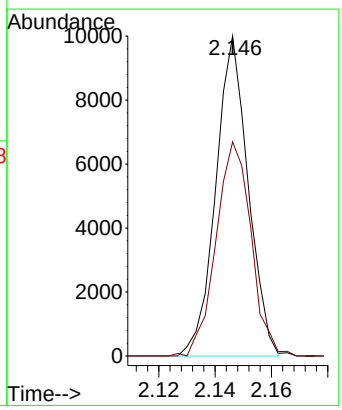
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

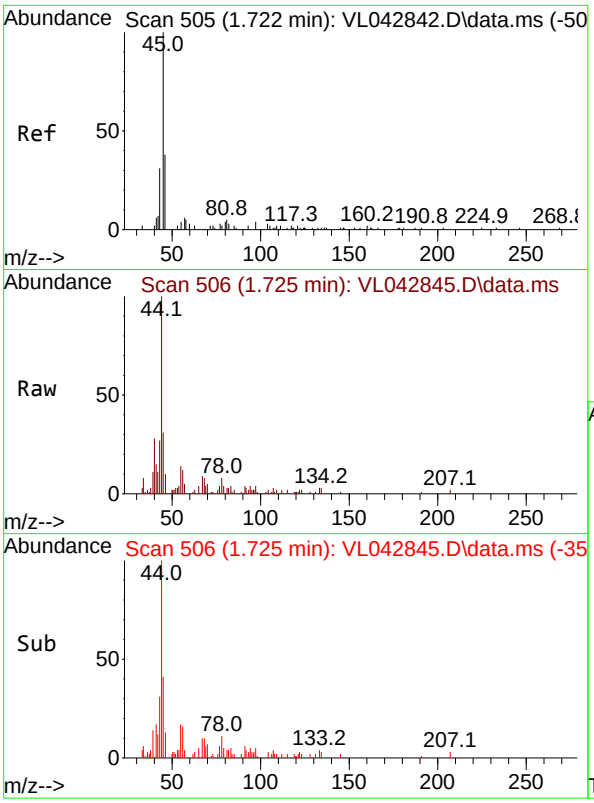


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.546 ppbv
RT: 2.146 min Scan# 636
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion:101 Resp: 7984

Ion	Ratio	Lower	Upper
101	100		
151	72.3	56.4	84.6

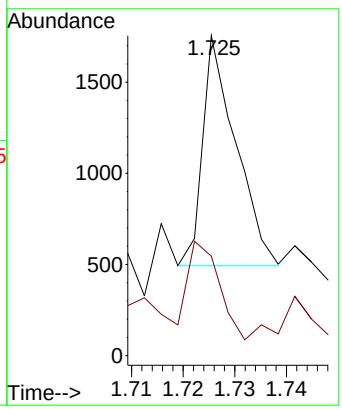




#13
Ethanol
Concen: 0.639 ppbv
RT: 1.725 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 45 Resp: 56

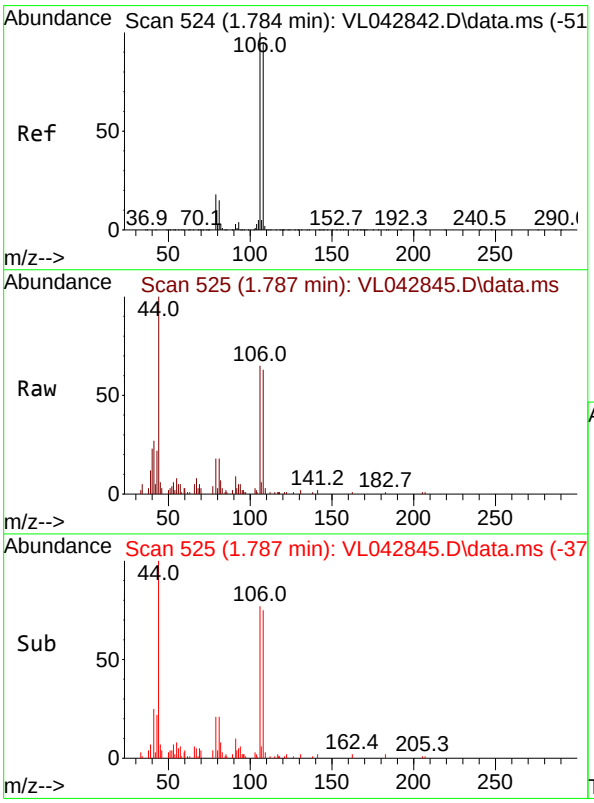
Ion	Ratio	Lower	Upper
45	100		
46	131.5	17.5	69.9#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

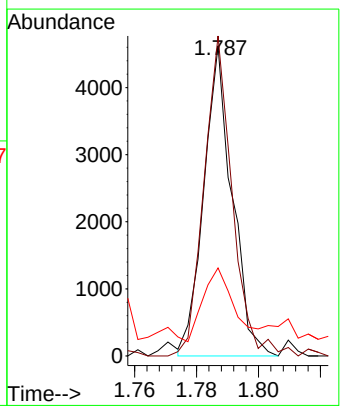
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

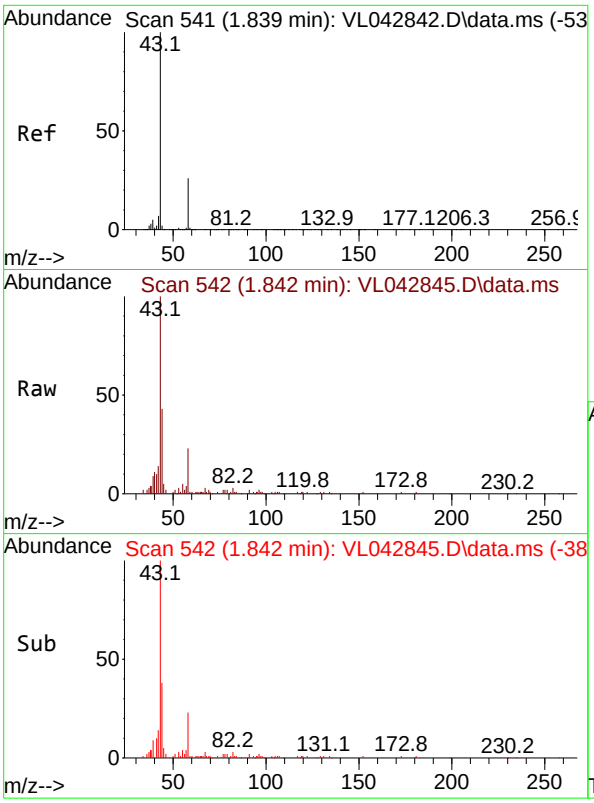


#14
Bromoethene
Concen: 0.554 ppbv
RT: 1.787 min Scan# 525
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

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#

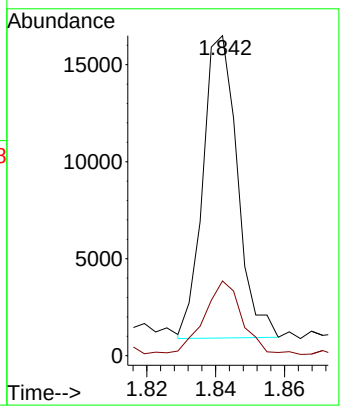




#15
Acetone
Concen: 0.646 ppbv
RT: 1.842 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 43 Resp: 1083

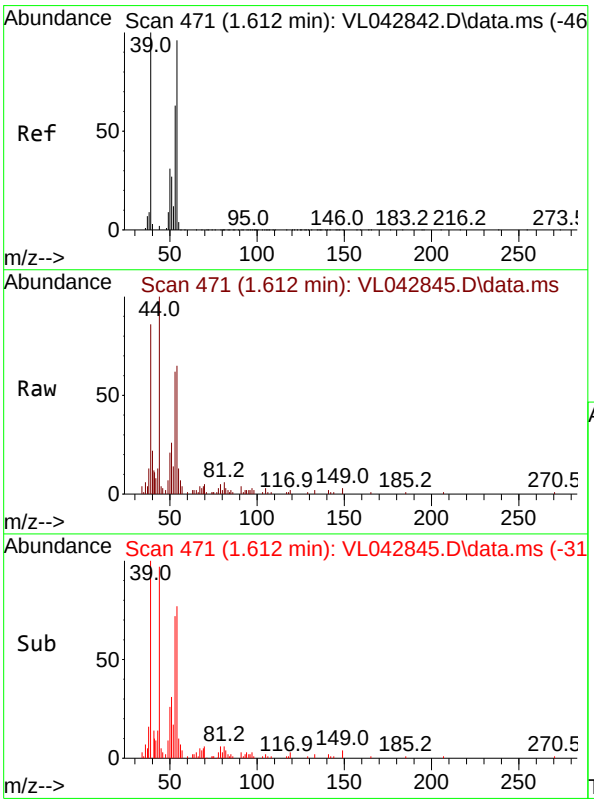
Ion	Ratio	Lower	Upper
43	100		
58	26.8	22.4	33.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

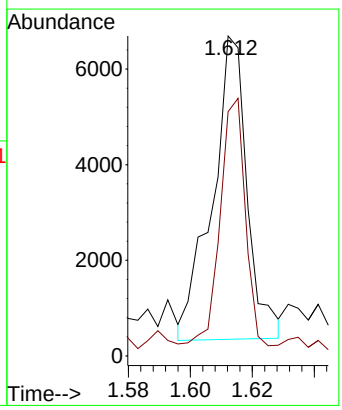
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

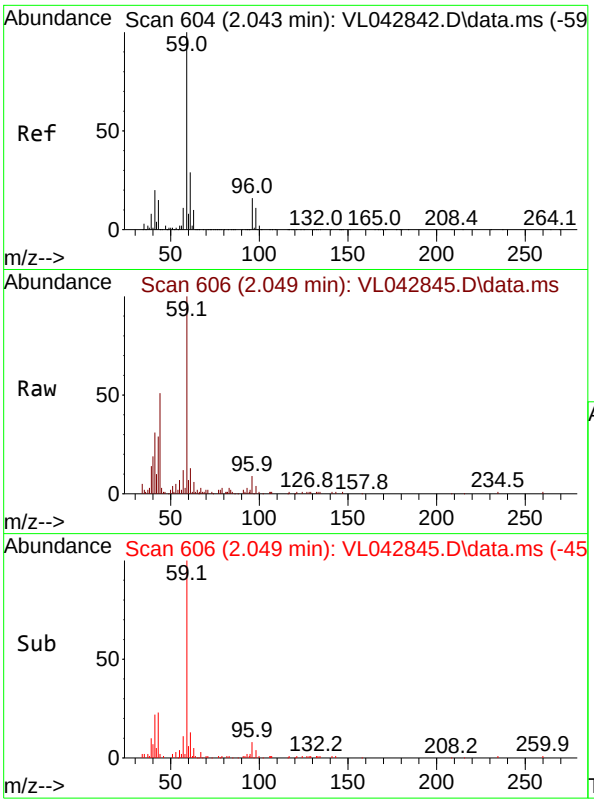


#16
1,3-Butadiene
Concen: 0.653 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.000 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 39 Resp: 4970

Ion	Ratio	Lower	Upper
39	100		
54	78.6	63.6	95.4

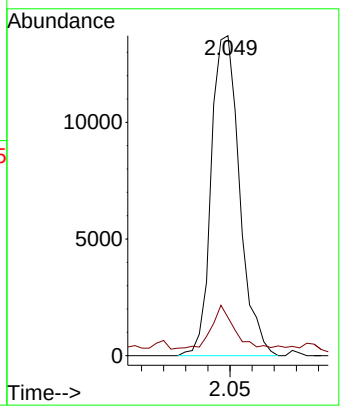




#17
tert-Butyl alcohol
Concen: 0.612 ppbv
RT: 2.049 min Scan# 6
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 59 Resp: 1218

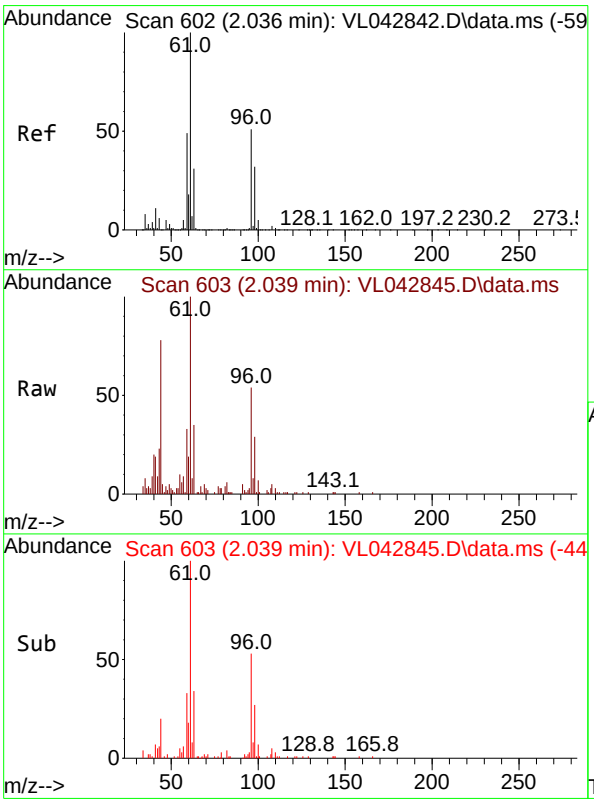
Ion	Ratio	Lower	Upper
59	100		
57	15.3	9.0	13.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

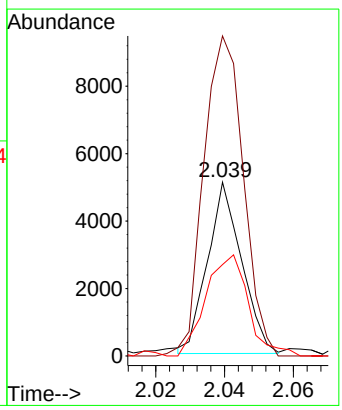
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

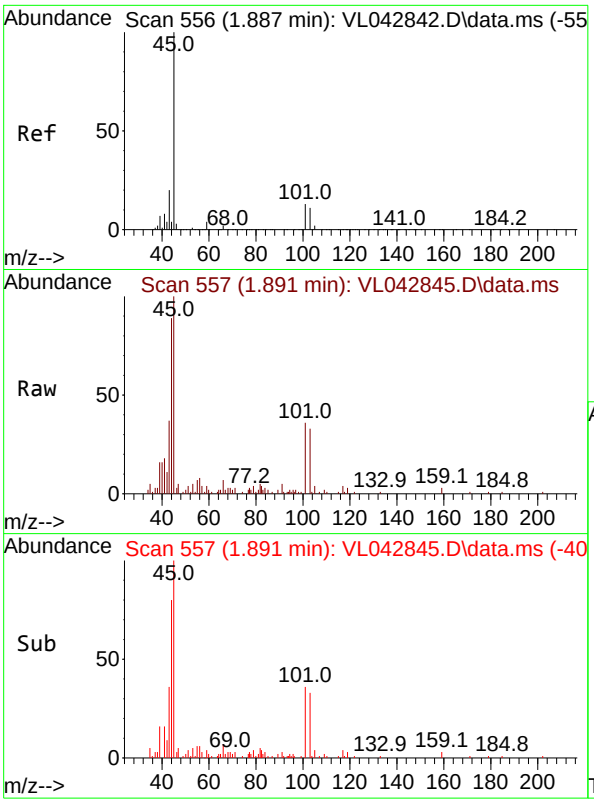


#18
1,1-Dichloroethene
Concen: 0.545 ppbv
RT: 2.039 min Scan# 603
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

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# 5
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

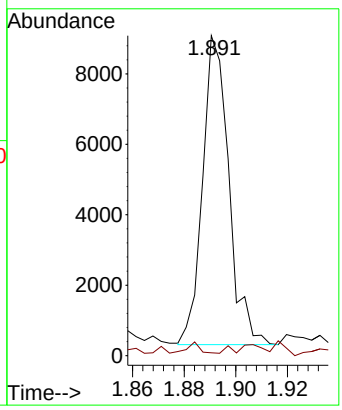
Tgt Ion: 45 Resp: 619

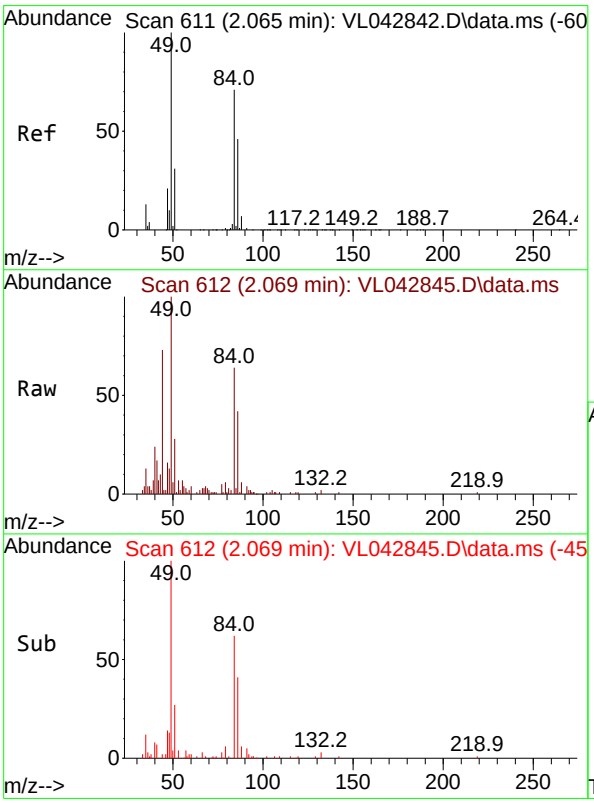
Ion	Ratio	Lower	Upper
45	100		
58	13.3	32.7	49.1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

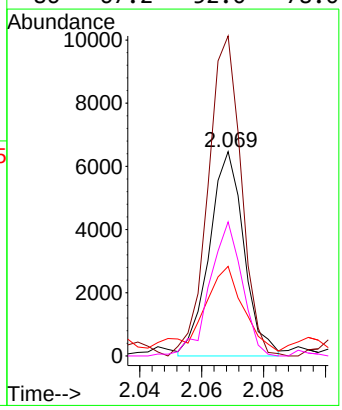


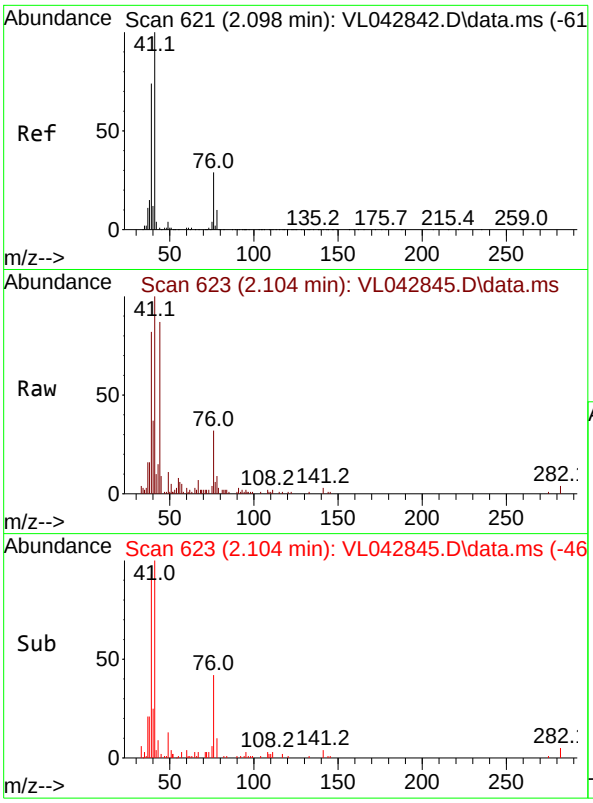


#20
Methylene Chloride
Concen: 0.715 ppbv
RT: 2.069 min Scan# 612
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

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

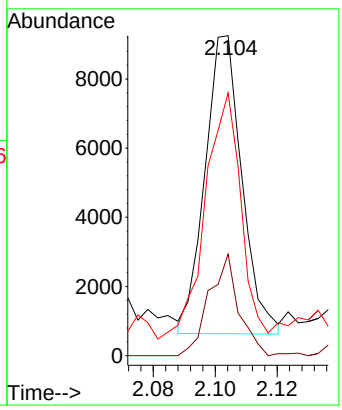




#21
Allyl Chloride
Concen: 0.600 ppbv
RT: 2.104 min Scan# 6
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 41 Resp: 712

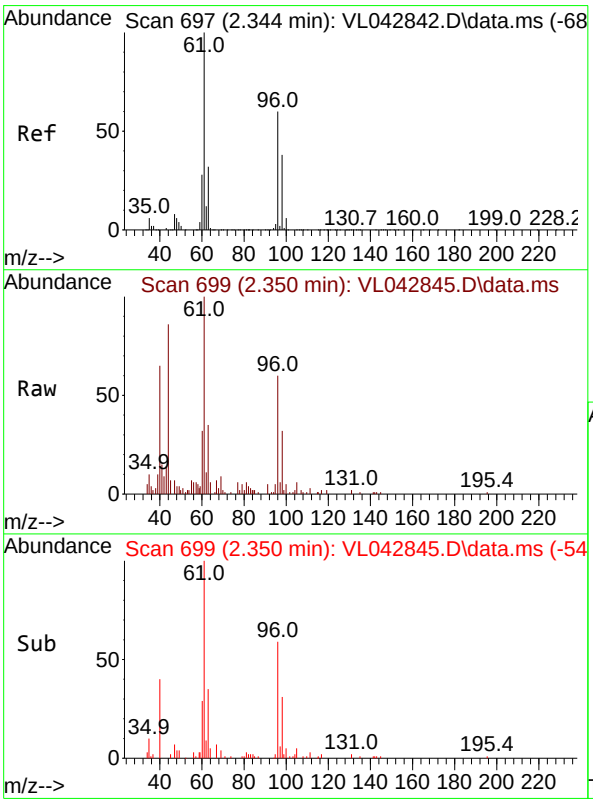
Ion	Ratio	Lower	Upper
41	100		
76	27.8	23.9	35.9
39	98.9	57.8	86.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

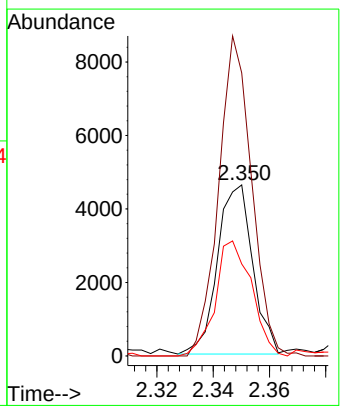
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

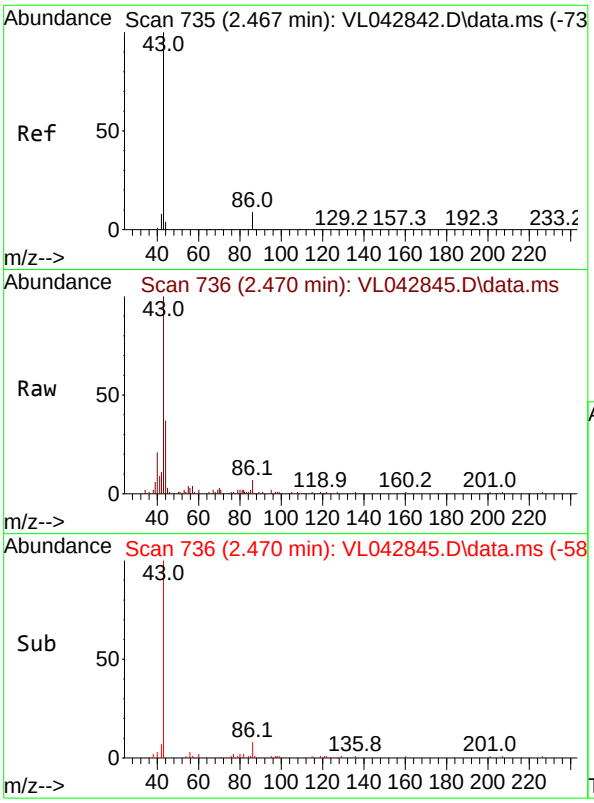


#22
trans-1,2-Dichloroethene
Concen: 0.556 ppbv
RT: 2.350 min Scan# 699
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

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

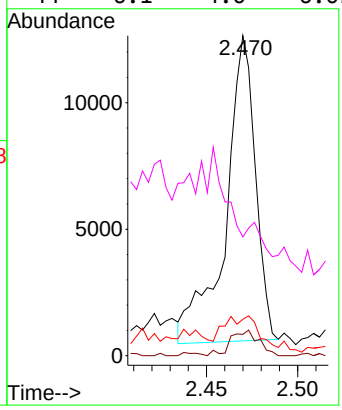




#23
Vinyl Acetate
Concen: 0.621 ppbv
RT: 2.470 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 43 Resp: 1370

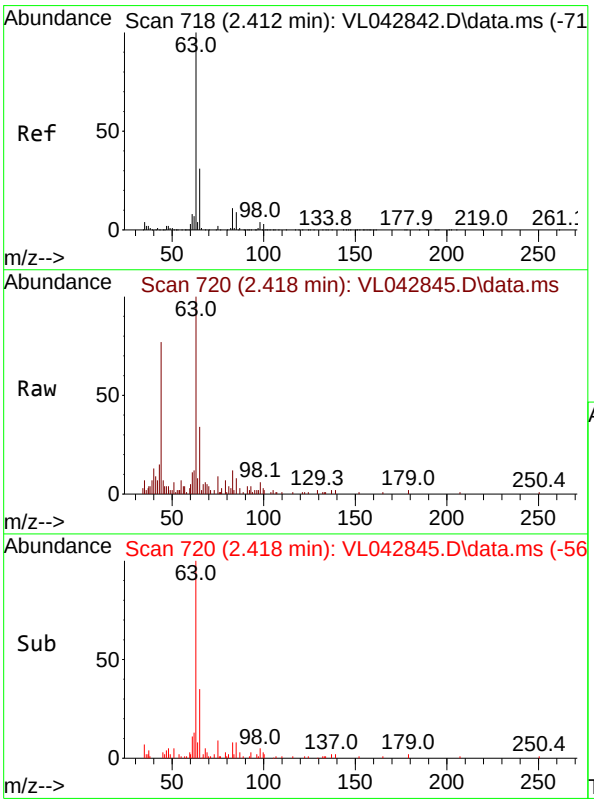
Ion	Ratio	Lower	Upper
43	100		
86	7.0	6.6	9.8
42	9.3	7.0	10.6
44	6.1	4.0	6.0#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

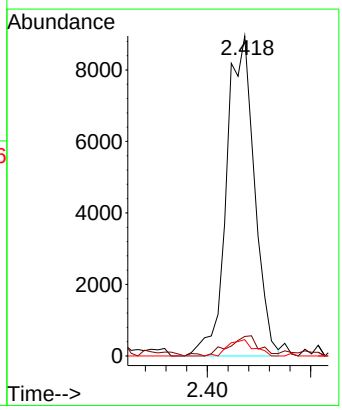
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

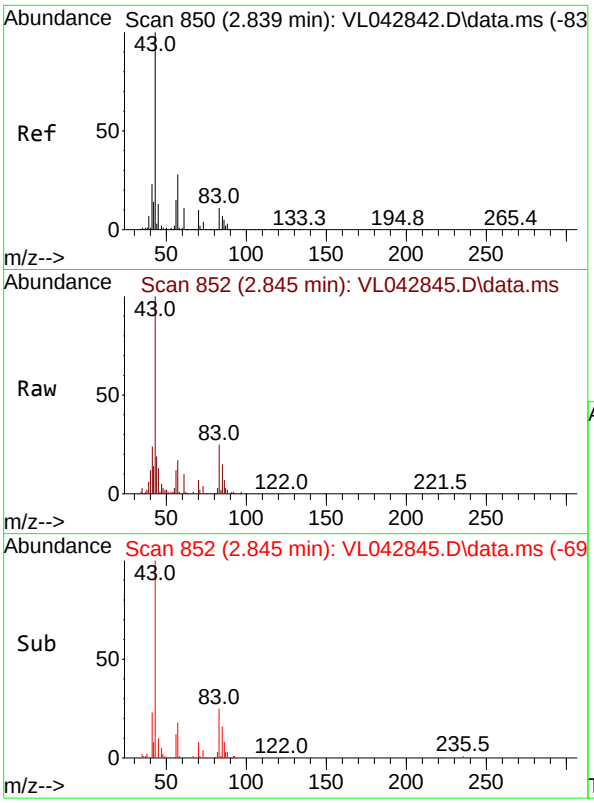


#24
1,1-Dichloroethane
Concen: 0.562 ppbv
RT: 2.418 min Scan# 720
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

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#

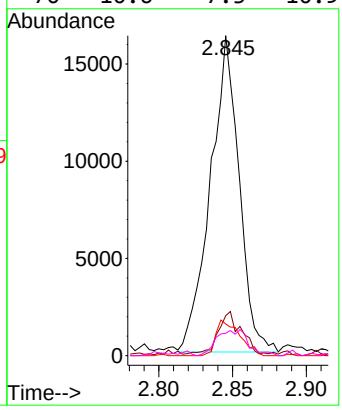




#25
Ethyl Acetate
Concen: 0.545 ppbv
RT: 2.845 min Scan# 8
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 43 Resp: 2214

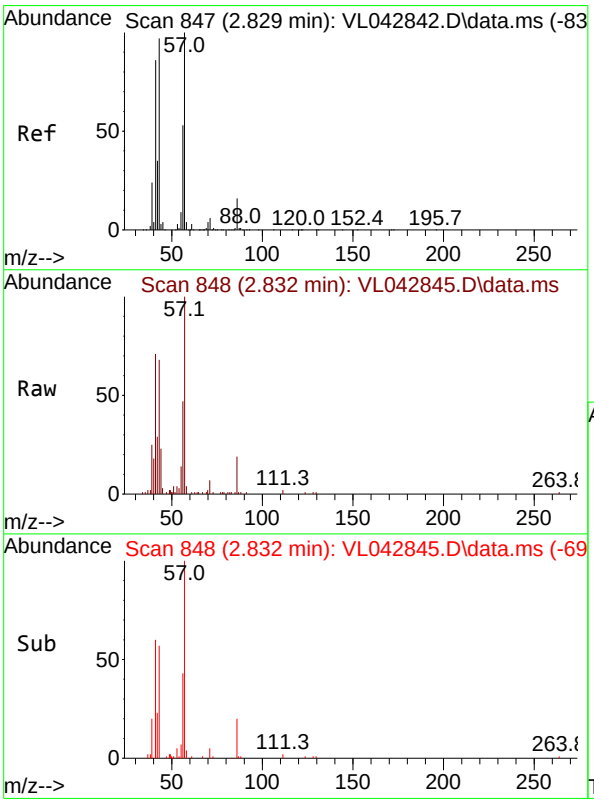
Ion	Ratio	Lower	Upper
43	100		
45	13.2	8.1	12.1
61	9.4	7.4	11.2
70	10.6	7.3	10.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

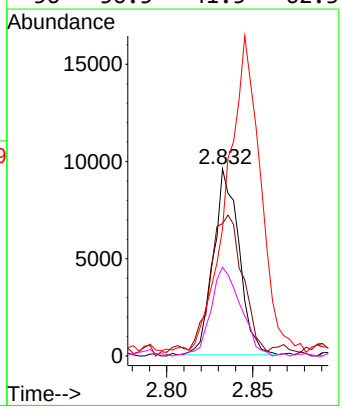
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

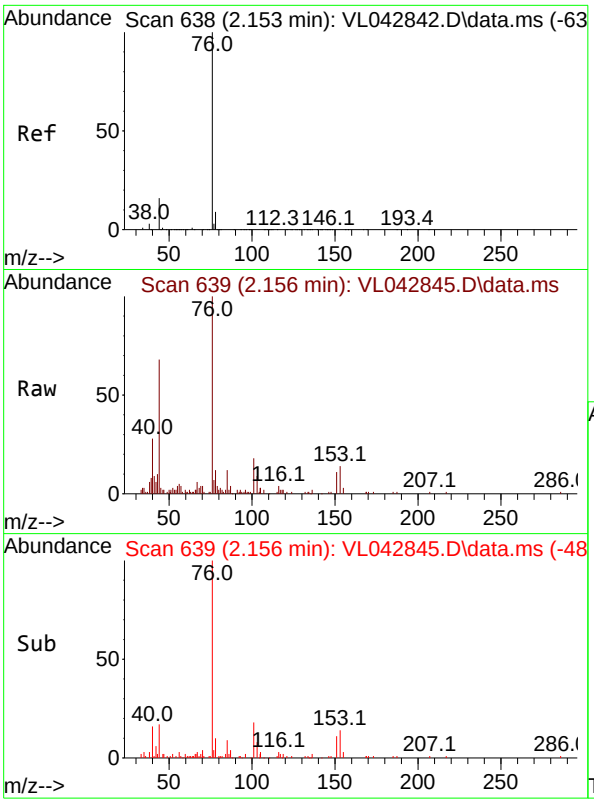


#26
Hexane
Concen: 0.527 ppbv
RT: 2.832 min Scan# 848
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

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# 6
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

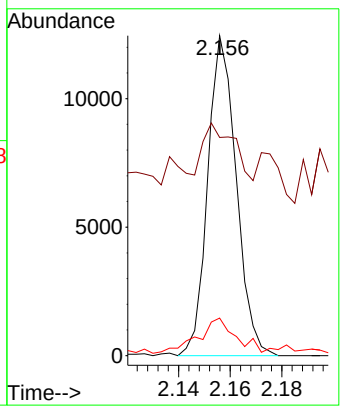
Tgt Ion: 76 Resp: 953

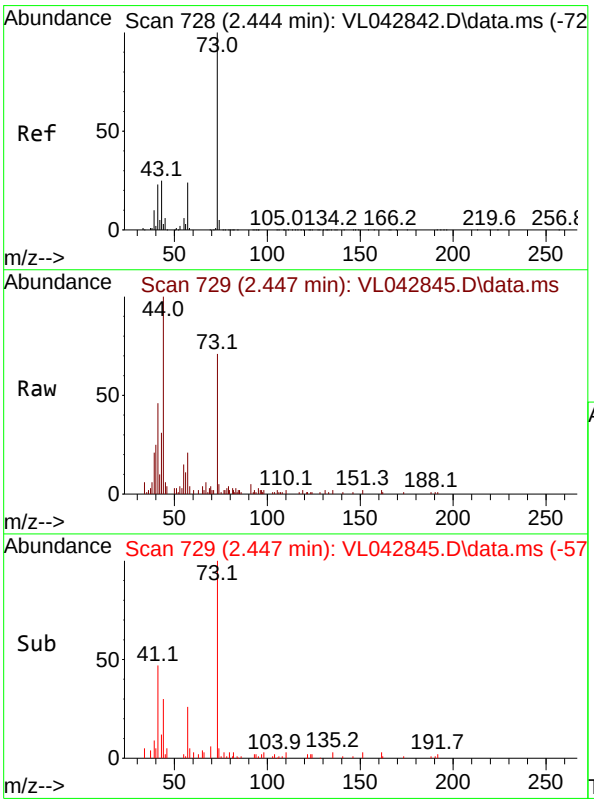
Ion	Ratio	Lower	Upper
76	100		
44	136.8	15.9	23.9#
78	22.2	9.5	14.3#

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

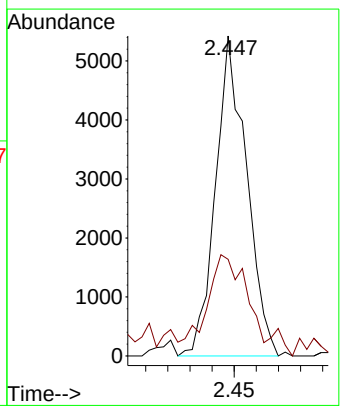


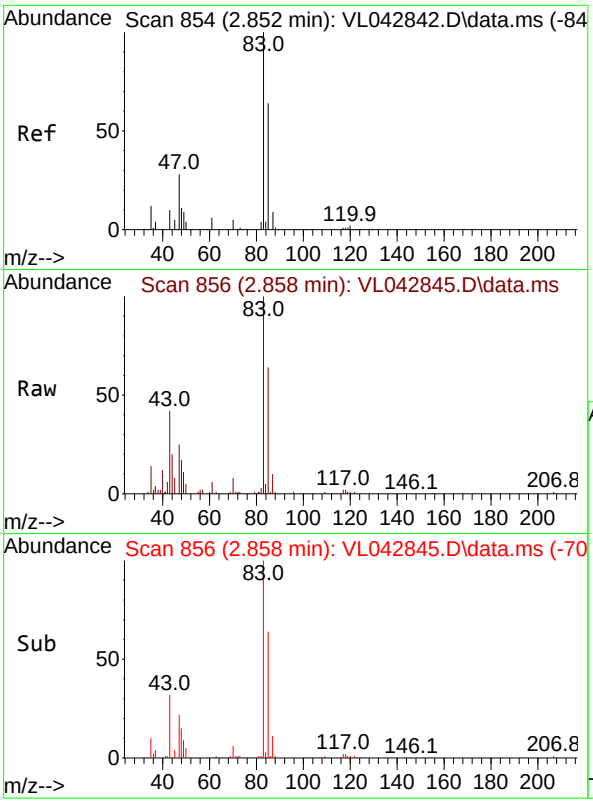


#28
Methyl tert-Butyl Ether
Concen: 0.553 ppbv
RT: 2.447 min Scan# 729
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 73 Resp: 5284

Ion	Ratio	Lower	Upper
73	100		
57	46.5	21.6	32.4#

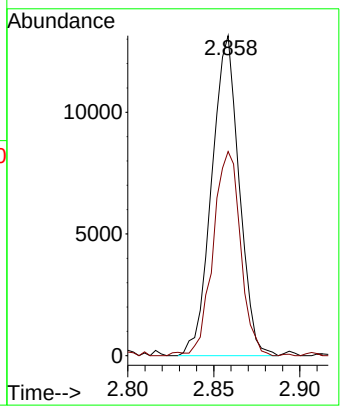




#29
Chloroform
Concen: 0.545 ppbv
RT: 2.858 min Scan# 8
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 83 Resp: 1458

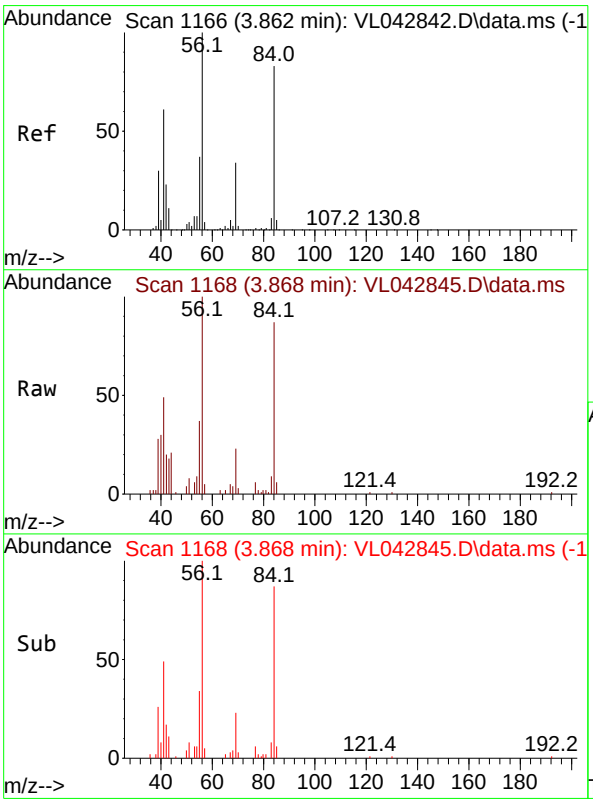
Ion	Ratio	Lower	Upper
83	100		
85	63.8	51.1	76.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

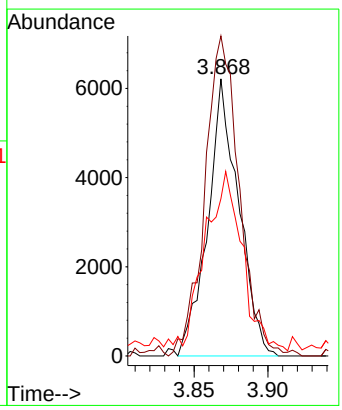
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

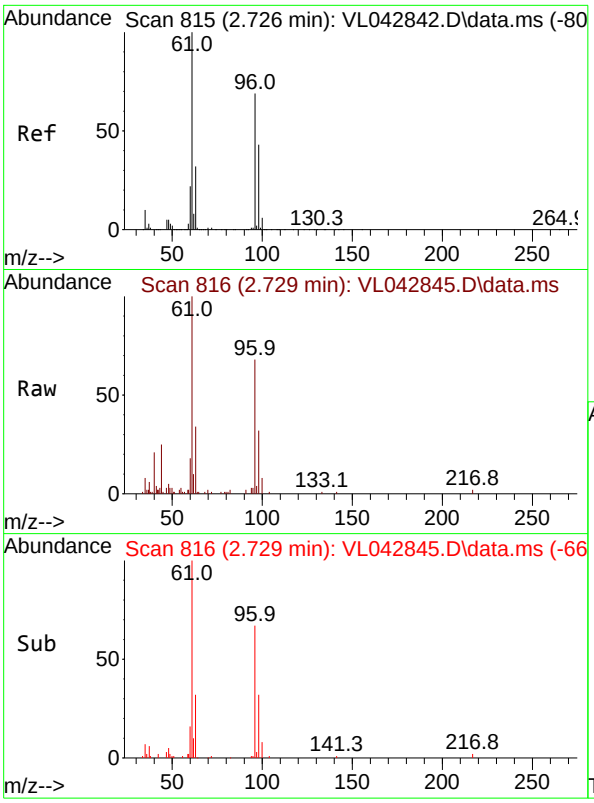


#30
Cyclohexane
Concen: 0.550 ppbv
RT: 3.868 min Scan# 1168
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

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

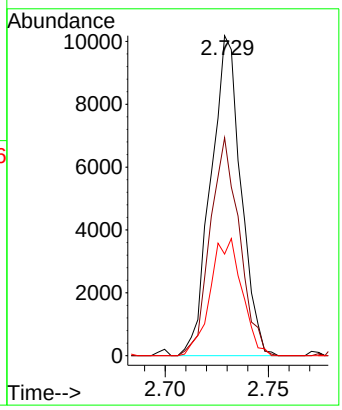




#31
cis-1,2-Dichloroethene
Concen: 0.550 ppbv
RT: 2.729 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 61 Resp: 1030

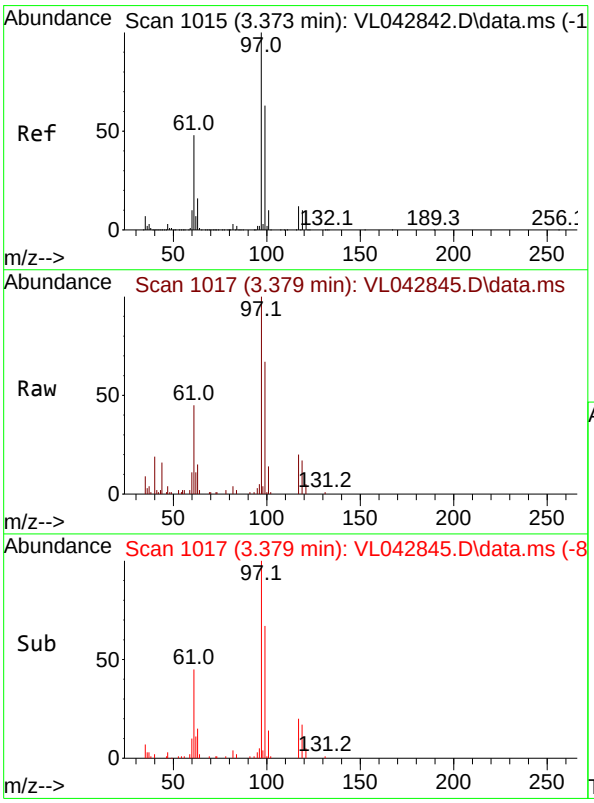
Ion	Ratio	Lower	Upper
61	100		
96	61.7	55.0	82.6
98	28.7	34.3	51.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

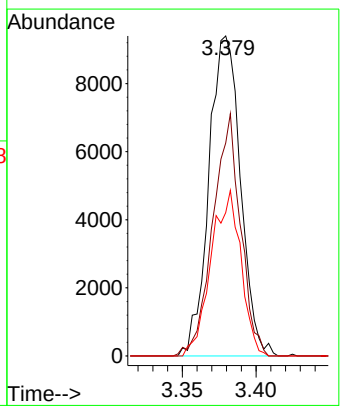
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

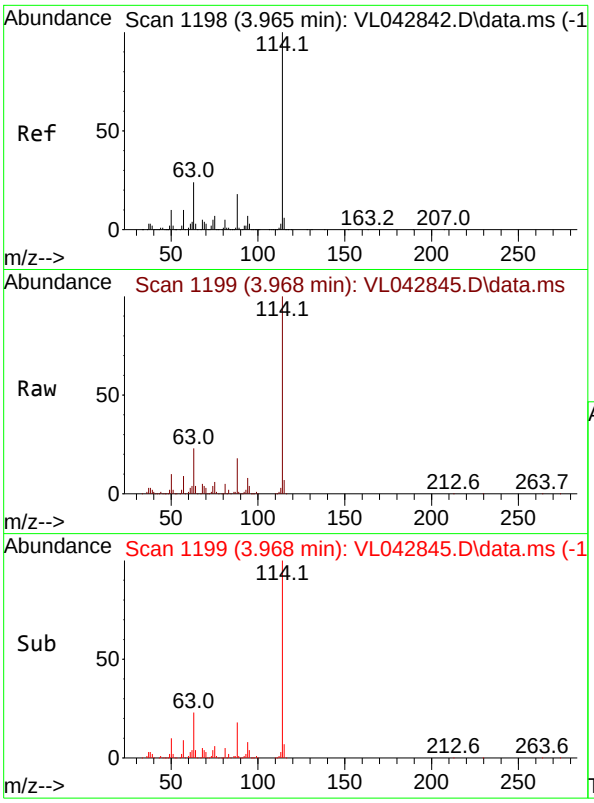


#32
1,1,1-Trichloroethane
Concen: 0.494 ppbv
RT: 3.379 min Scan# 1017
Delta R.T. 0.007 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

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

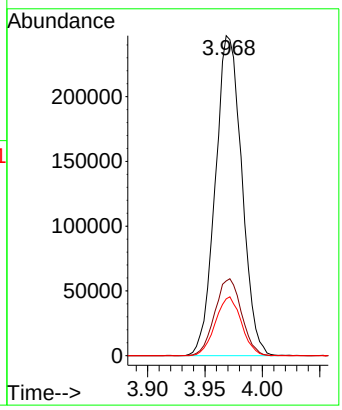




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.968 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion:114 Resp: 39626

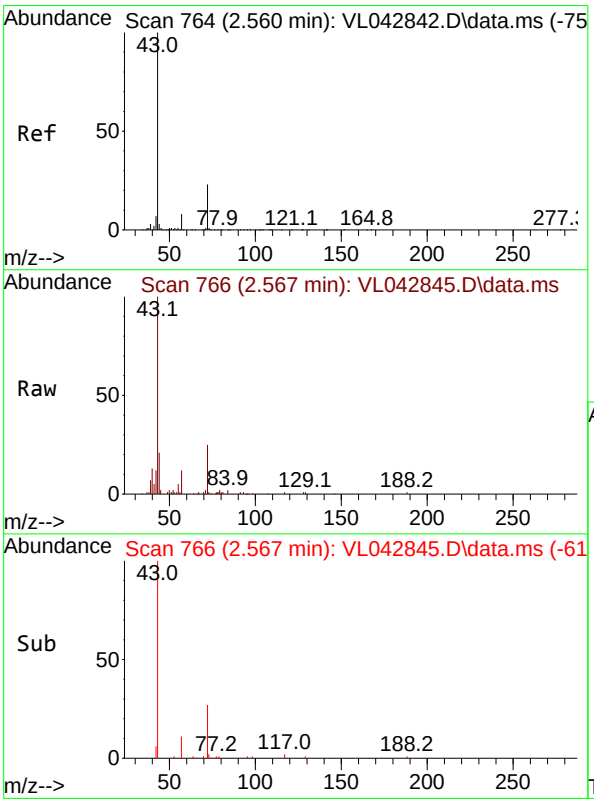
Ion	Ratio	Lower	Upper
114	100		
63	24.3	19.7	29.5
88	18.1	14.4	21.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

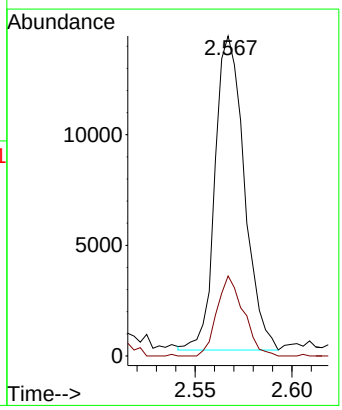
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

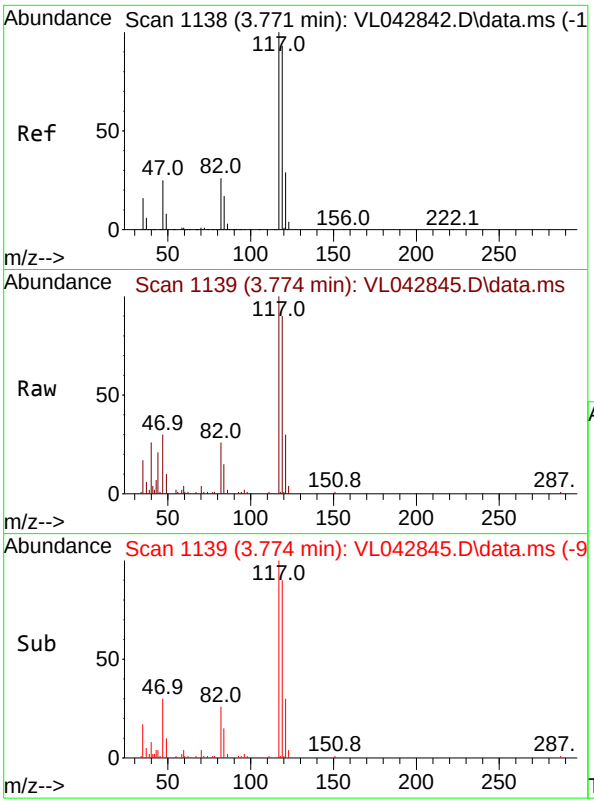


#34
2-Butanone
Concen: 0.558 ppbv
RT: 2.567 min Scan# 766
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 43 Resp: 14923

Ion	Ratio	Lower	Upper
43	100		
72	23.3	18.6	28.0

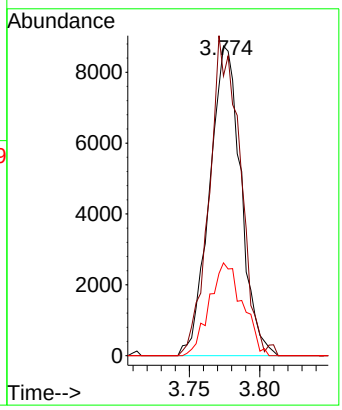




#35
Carbon Tetrachloride
Concen: 0.494 ppbv
RT: 3.774 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion:117 Resp: 1350

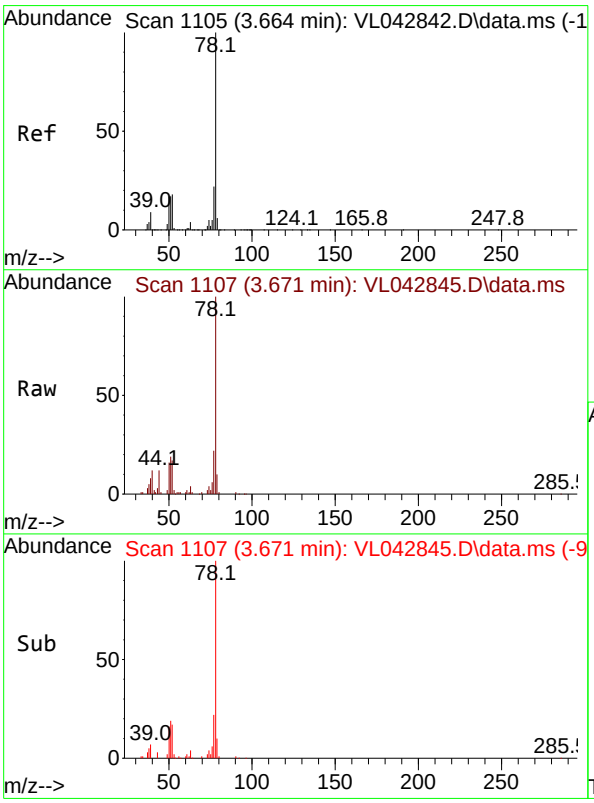
Ion	Ratio	Lower	Upper
117	100		
119	90.3	74.7	112.1
121	30.0	23.2	34.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

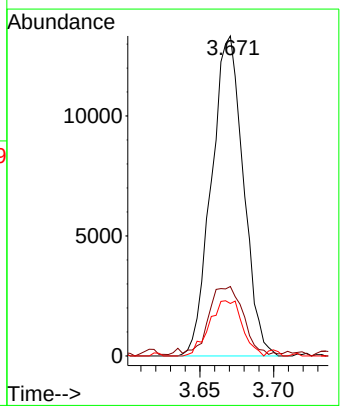
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

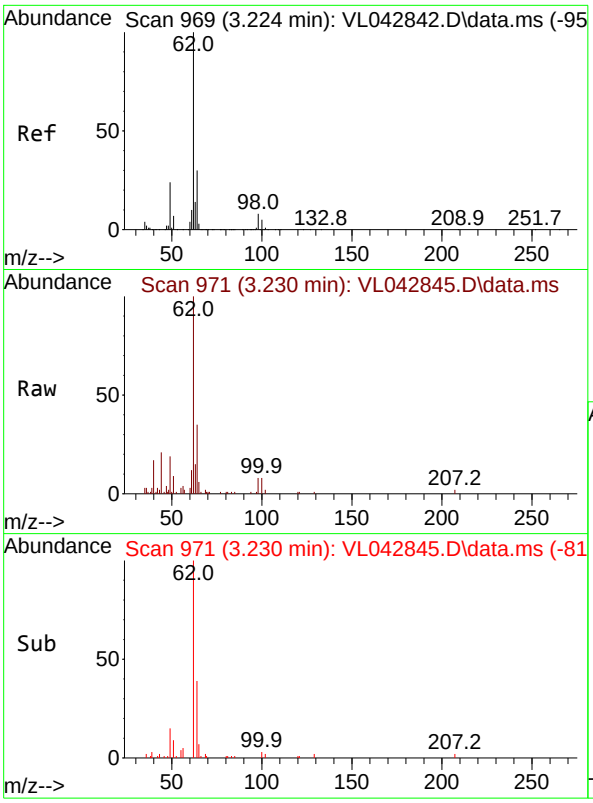


#36
Benzene
Concen: 0.529 ppbv
RT: 3.671 min Scan# 1107
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

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

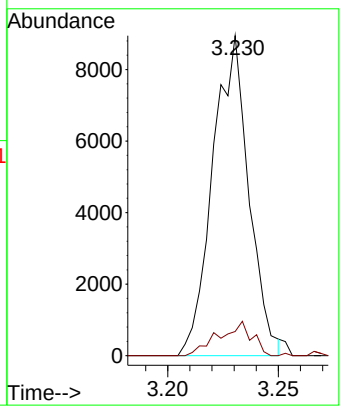




#37
1,2-Dichloroethane
Concen: 0.512 ppbv
RT: 3.230 min Scan# 9
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 62 Resp: 1014

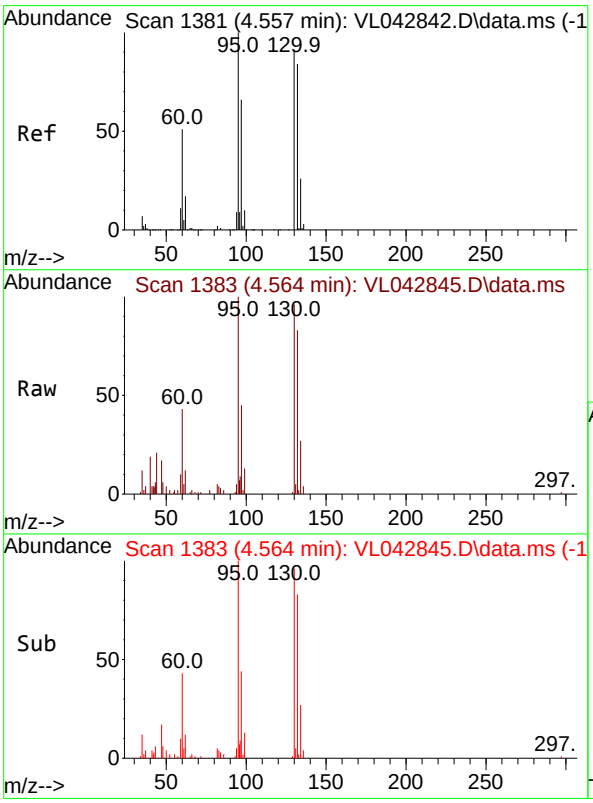
Ion	Ratio	Lower	Upper
62	100		
98	10.0	5.9	8.9#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

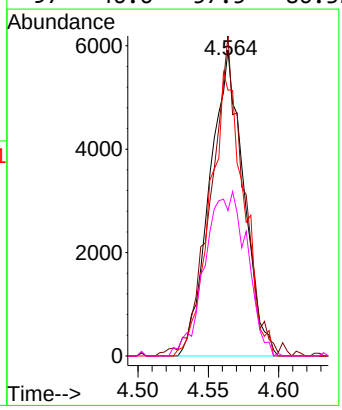
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

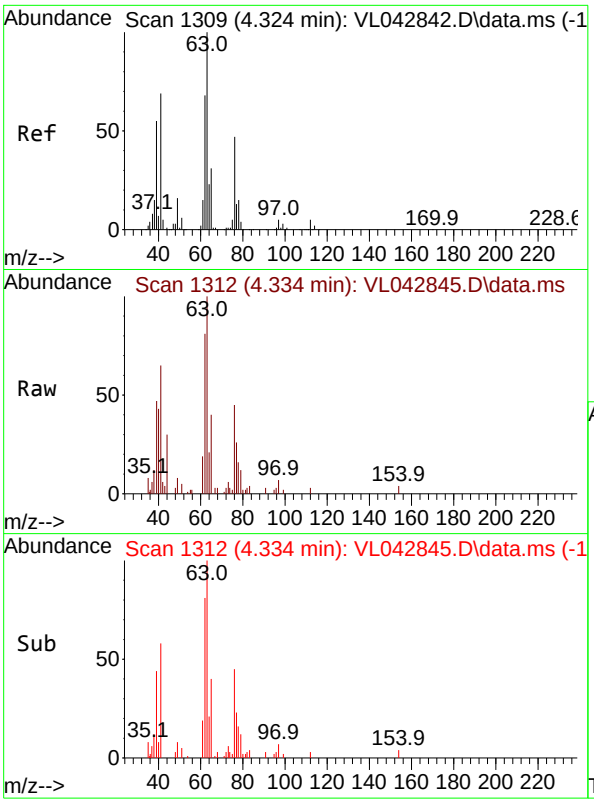


#38
Trichloroethene
Concen: 0.572 ppbv
RT: 4.564 min Scan# 1383
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

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#

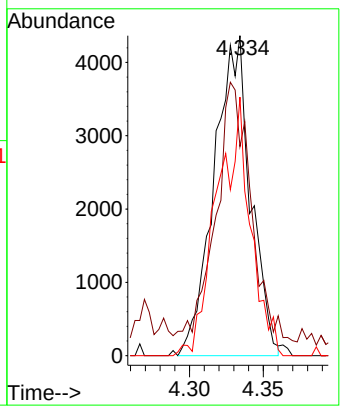




#39
1,2-Dichloropropane
Concen: 0.541 ppbv
RT: 4.334 min Scan# 1
Delta R.T. 0.010 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 63 Resp: 749

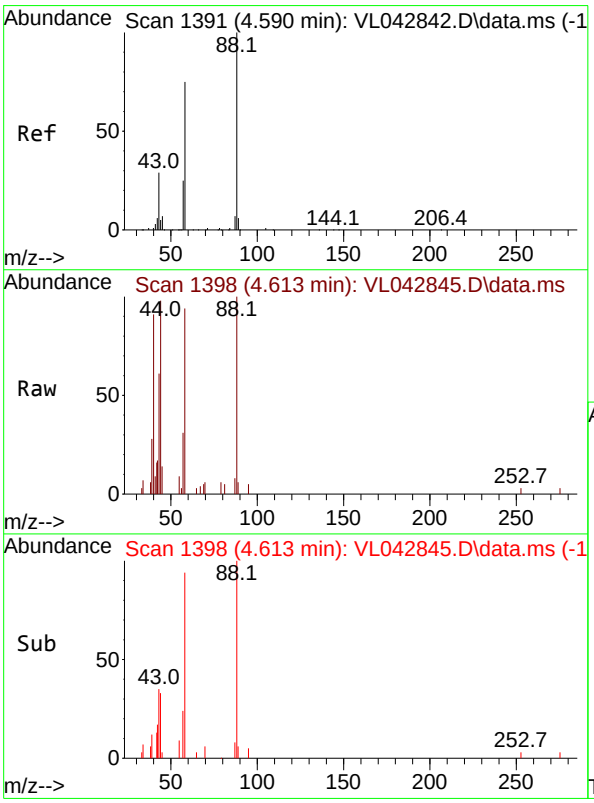
Ion	Ratio	Lower	Upper
63	100		
41	57.8	55.0	82.4
62	79.7	54.4	81.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

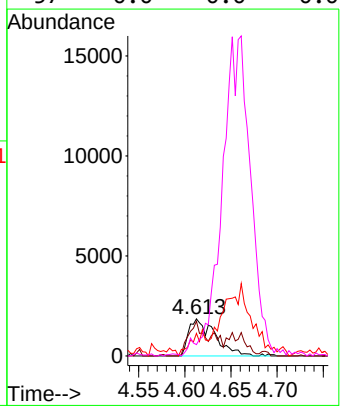
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

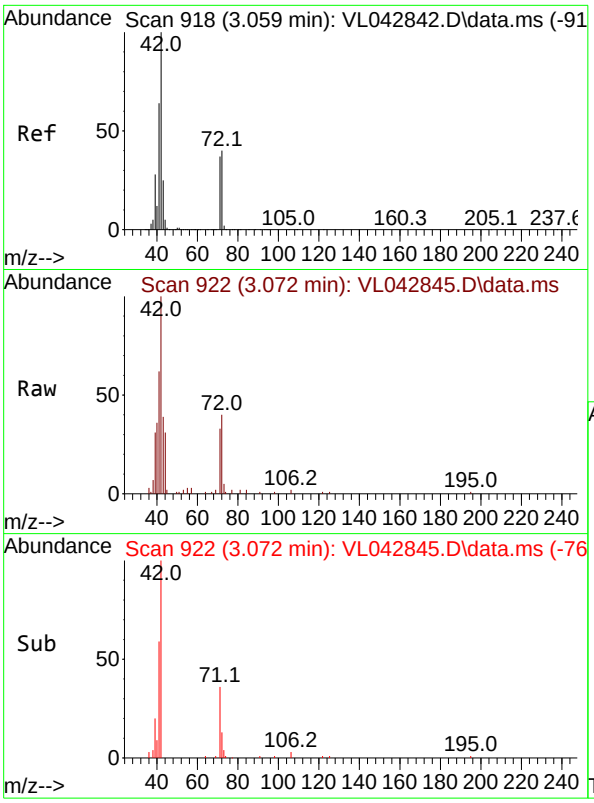


#40
1,4-Dioxane
Concen: 0.577 ppbv m
RT: 4.613 min Scan# 1398
Delta R.T. 0.023 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

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

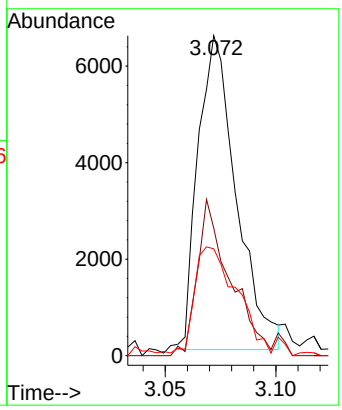




#41
Tetrahydrofuran
Concen: 0.525 ppbv
RT: 3.072 min Scan# 9
Delta R.T. 0.013 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 42 Resp: 782

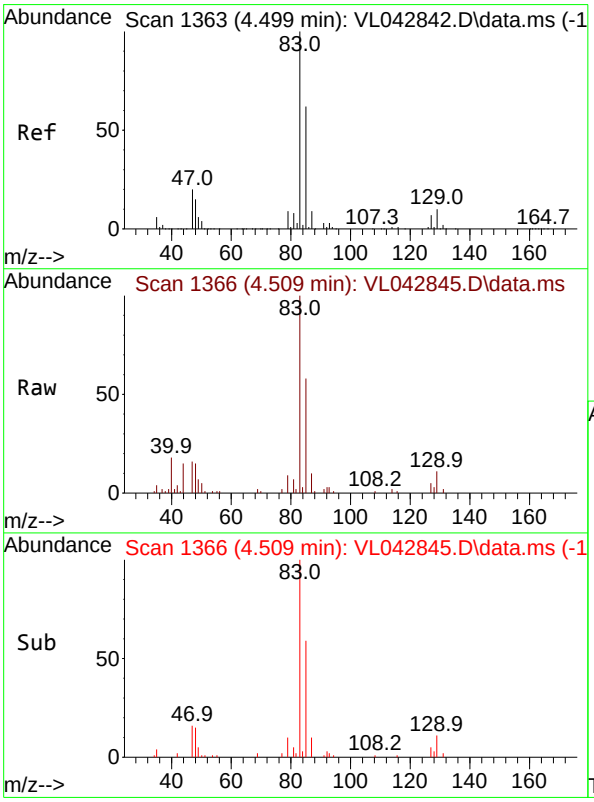
Ion	Ratio	Lower	Upper
42	100		
72	44.5	32.6	48.8
71	42.0	30.0	45.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

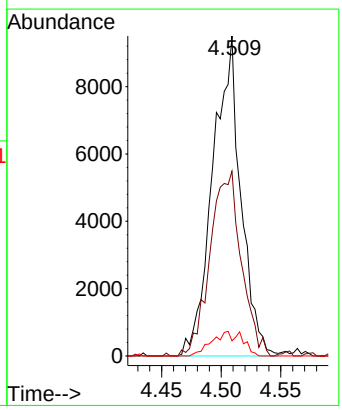
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

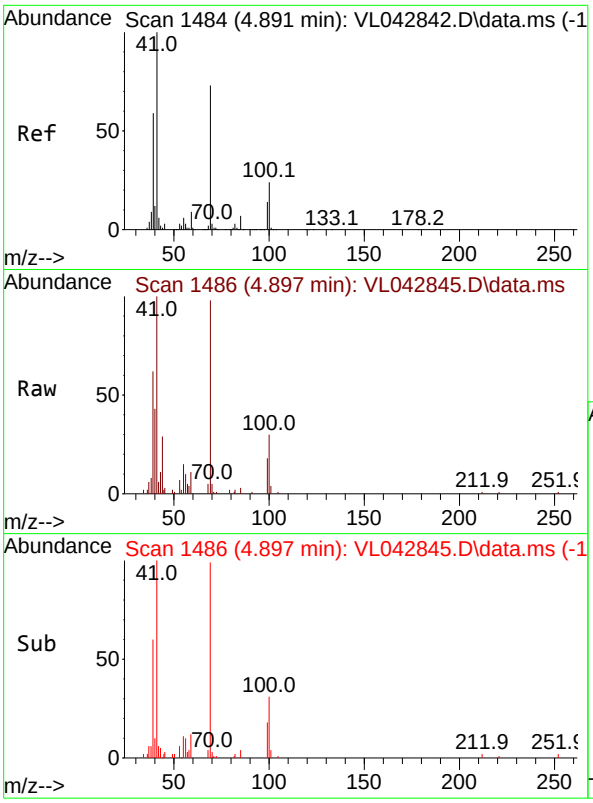


#42
Bromodichloromethane
Concen: 0.527 ppbv
RT: 4.509 min Scan# 1366
Delta R.T. 0.010 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

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#

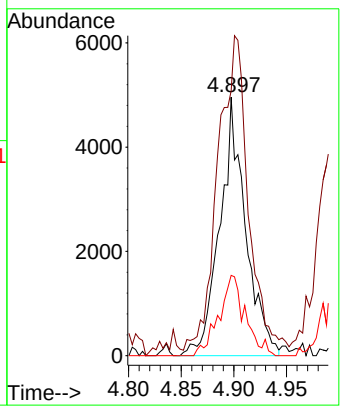




#43
Methyl Methacrylate
Concen: 0.544 ppbv m
RT: 4.897 min Scan# 14
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 69 Resp: 846

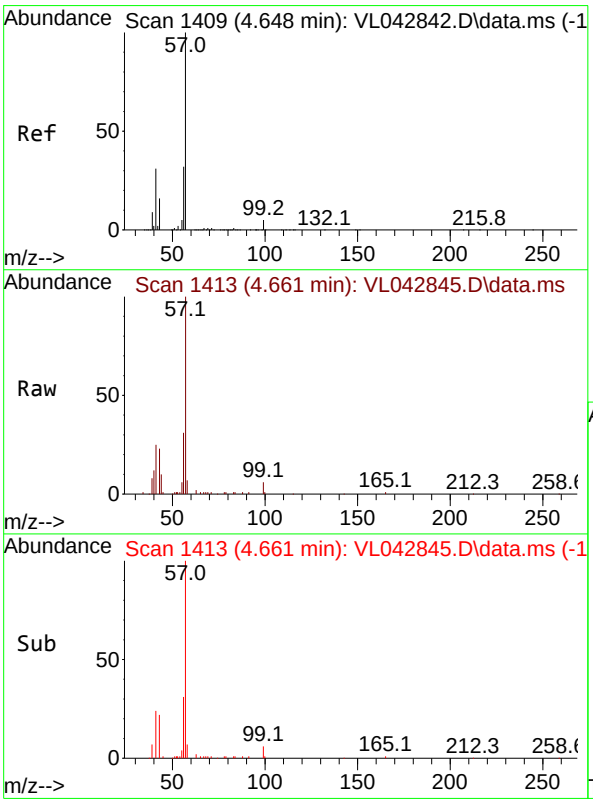
Ion	Ratio	Lower	Upper
69	100		
41	141.3	114.6	172.0
100	31.7	30.2	45.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

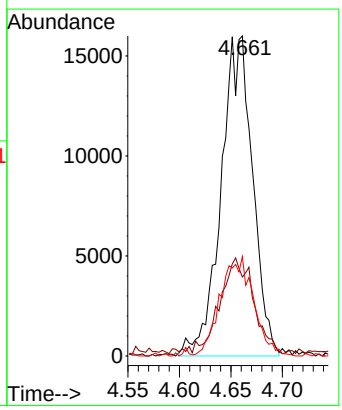
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

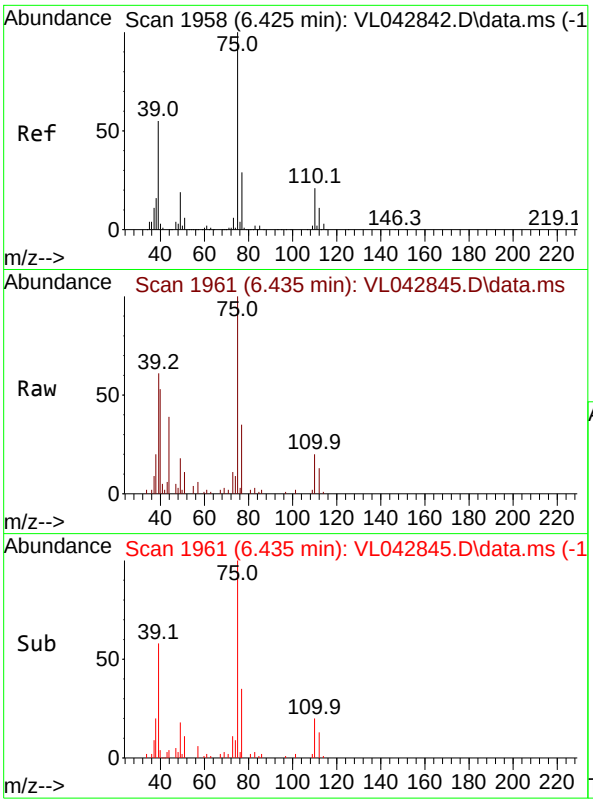


#44
2,2,4-Trimethylpentane
Concen: 0.537 ppbv m
RT: 4.661 min Scan# 1413
Delta R.T. 0.013 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

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#

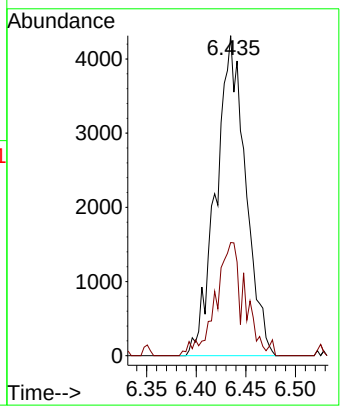




#45
t-1,3-Dichloropropene
Concen: 0.505 ppbv m
RT: 6.435 min Scan# 1
Delta R.T. 0.010 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 75 Resp: 891

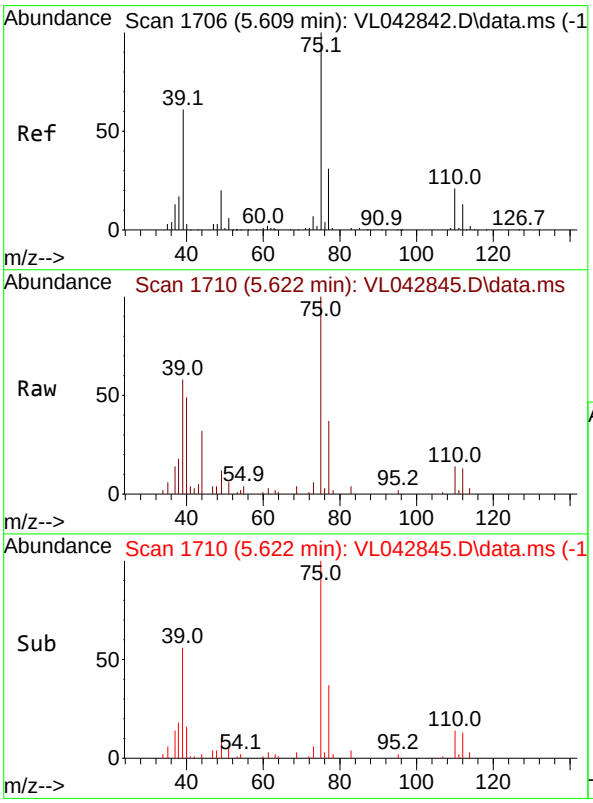
Ion	Ratio	Lower	Upper
75	100		
77	35.4	23.8	35.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

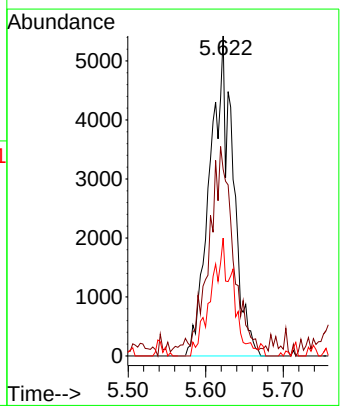
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

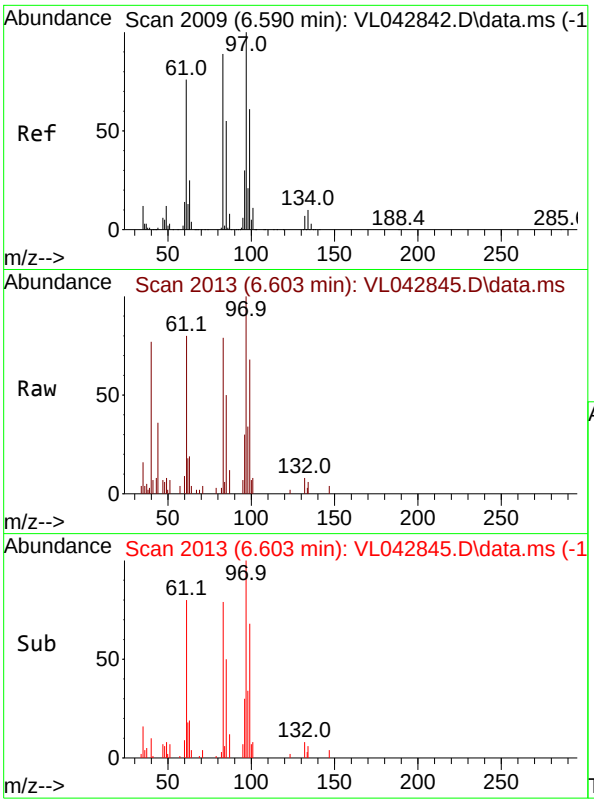


#46
cis-1,3-Dichloropropene
Concen: 0.508 ppbv m
RT: 5.622 min Scan# 1710
Delta R.T. 0.013 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

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

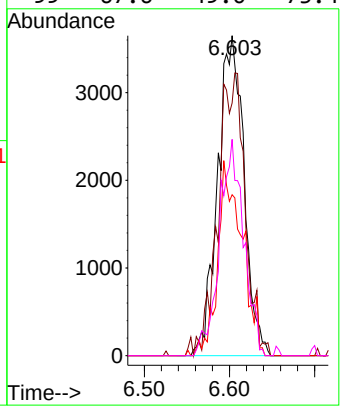




#47
1,1,2-Trichloroethane
Concen: 0.534 ppbv m
RT: 6.603 min Scan# 2(
Delta R.T. 0.013 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 97 Resp: 783

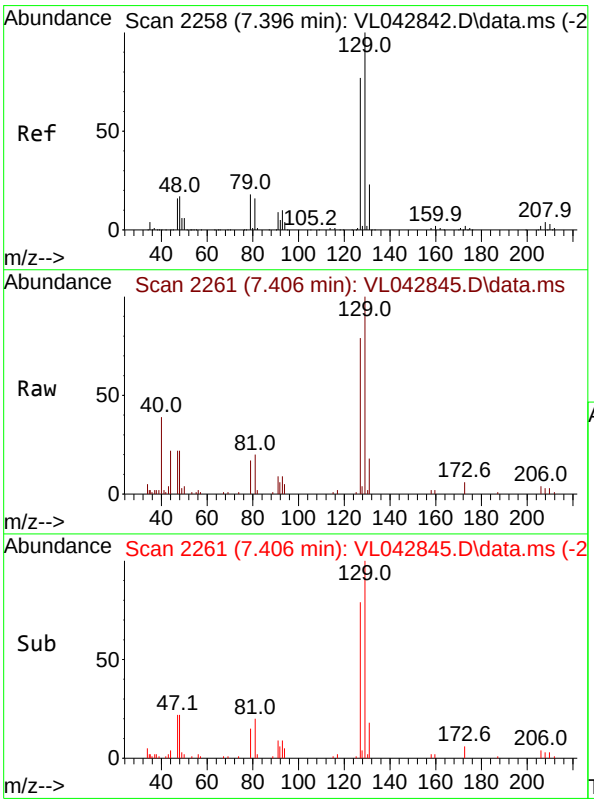
Ion	Ratio	Lower	Upper
97	100		
83	78.9	71.0	106.4
85	50.3	43.6	65.4
99	67.6	49.0	73.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

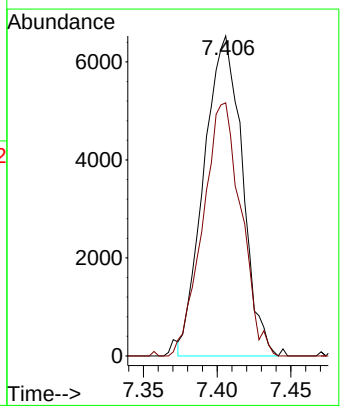
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

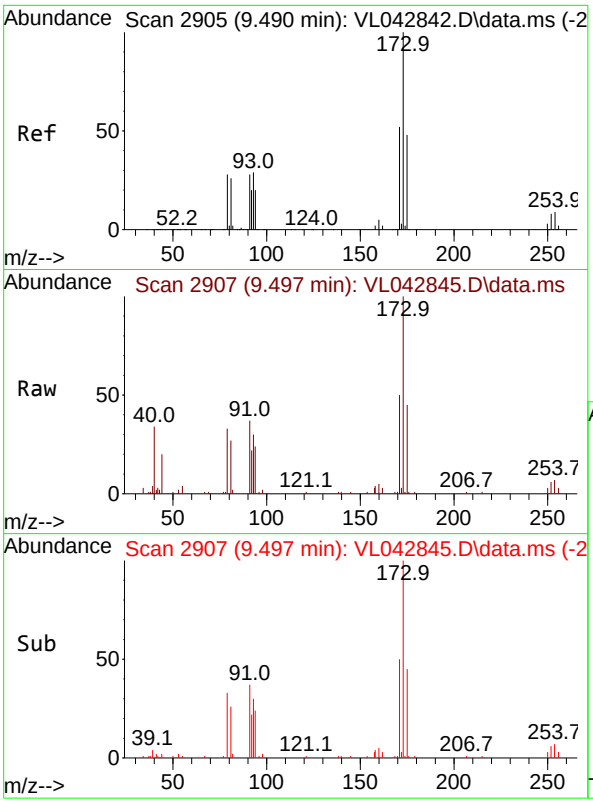


#48
Dibromochloromethane
Concen: 0.497 ppbv
RT: 7.406 min Scan# 2261
Delta R.T. 0.010 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion:129 Resp: 11805

Ion	Ratio	Lower	Upper
129	100		
127	79.1	39.4	118.2

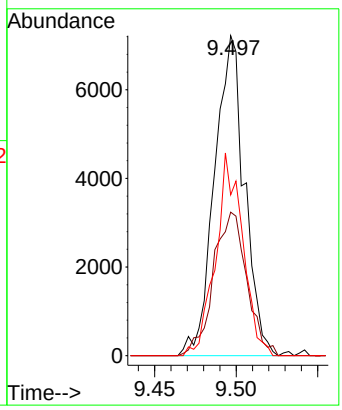




#49
Bromoform
Concen: 0.471 ppbv
RT: 9.497 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion:173 Resp: 923

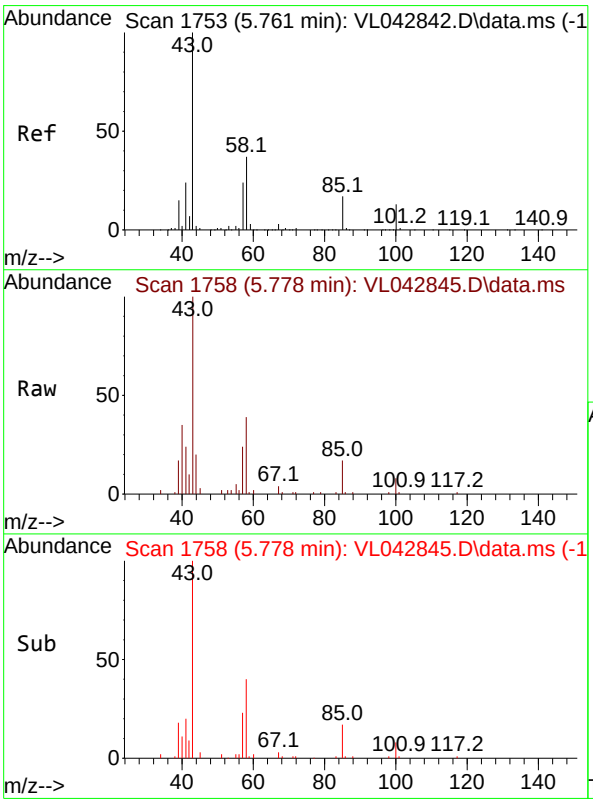
Ion	Ratio	Lower	Upper
173	100		
175	49.9	39.2	58.8
171	57.0	41.3	61.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

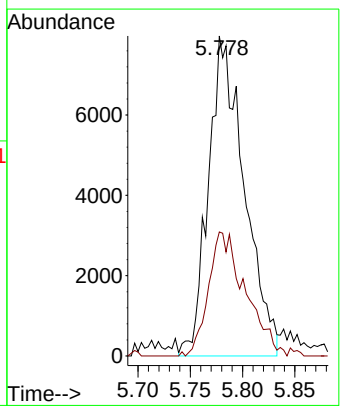
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

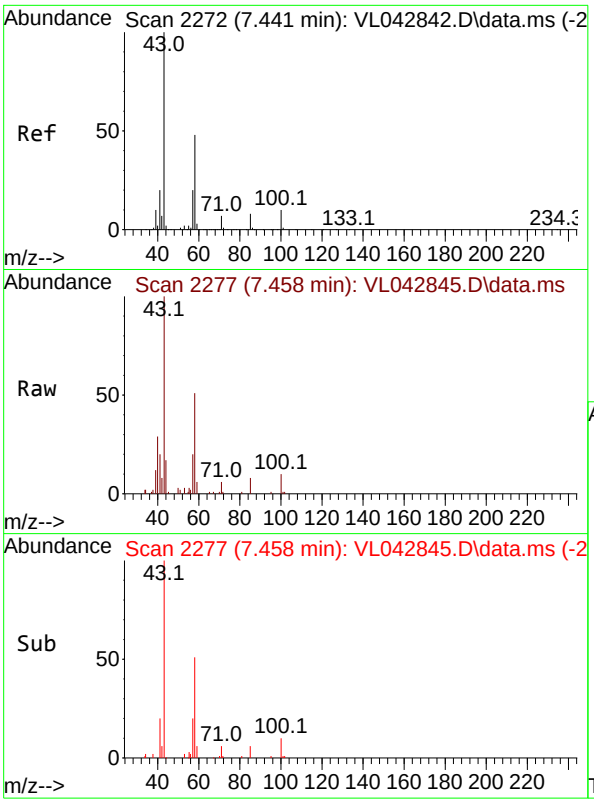


#50
4-Methyl-2-Pentanone
Concen: 0.524 ppbv m
RT: 5.778 min Scan# 1758
Delta R.T. 0.016 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

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# 2
Delta R.T. 0.016 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

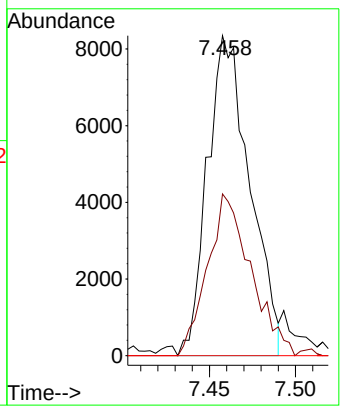
Tgt Ion: 43 Resp: 1432

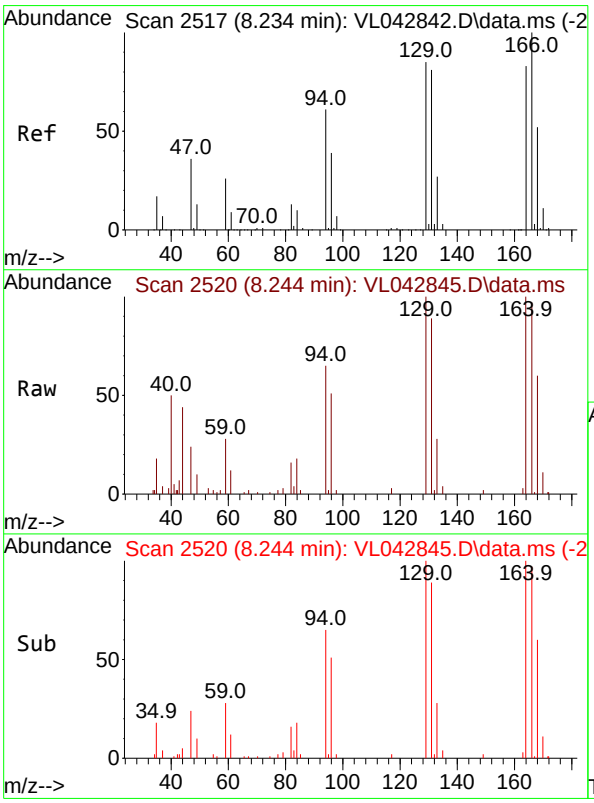
Ion	Ratio	Lower	Upper
43	100		
58	52.3	41.0	61.6
98	0.0	0.1	0.1#

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

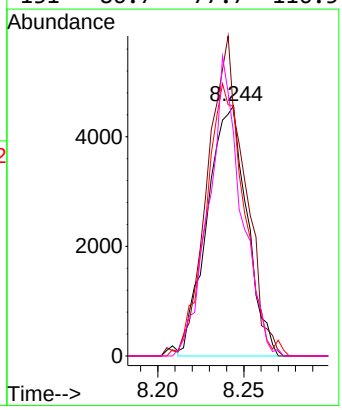


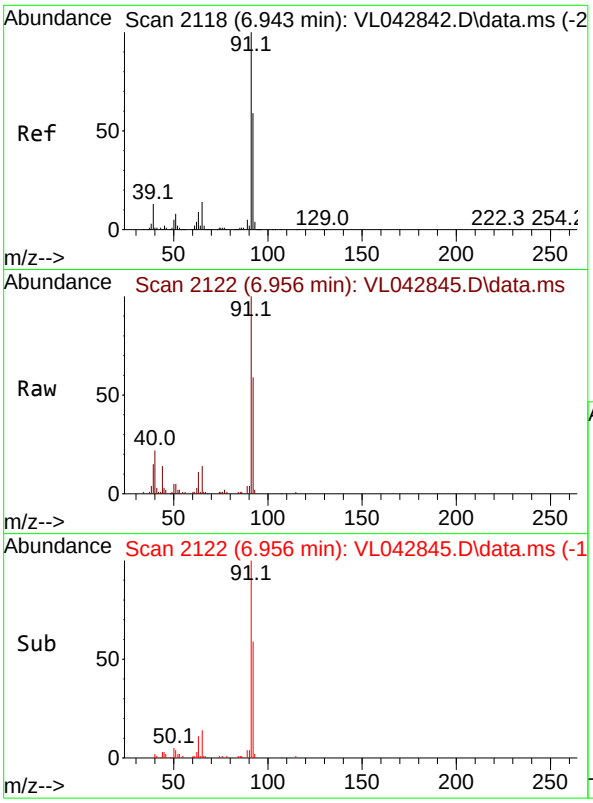


#52
Tetrachloroethene
Concen: 0.531 ppbv
RT: 8.244 min Scan# 2520
Delta R.T. 0.010 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

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

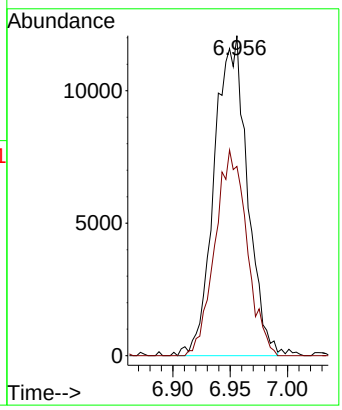




#53
Toluene
Concen: 0.535 ppbv m
RT: 6.956 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 91 Resp: 2415

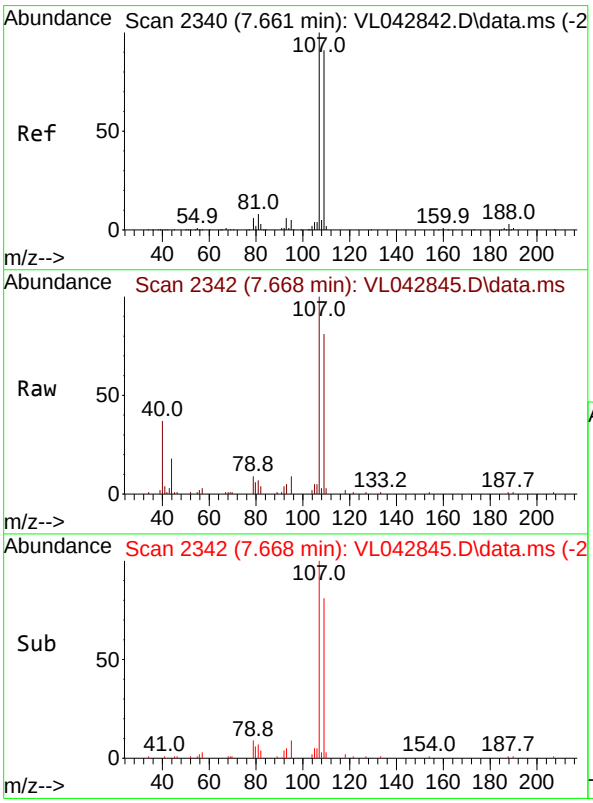
Ion	Ratio	Lower	Upper
91	100		
92	62.1	47.8	71.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

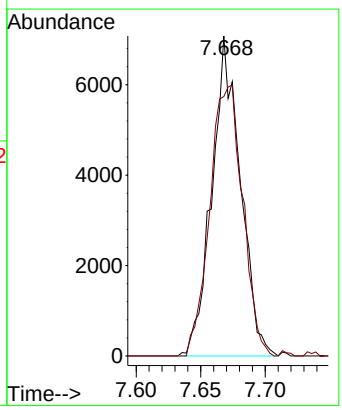
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

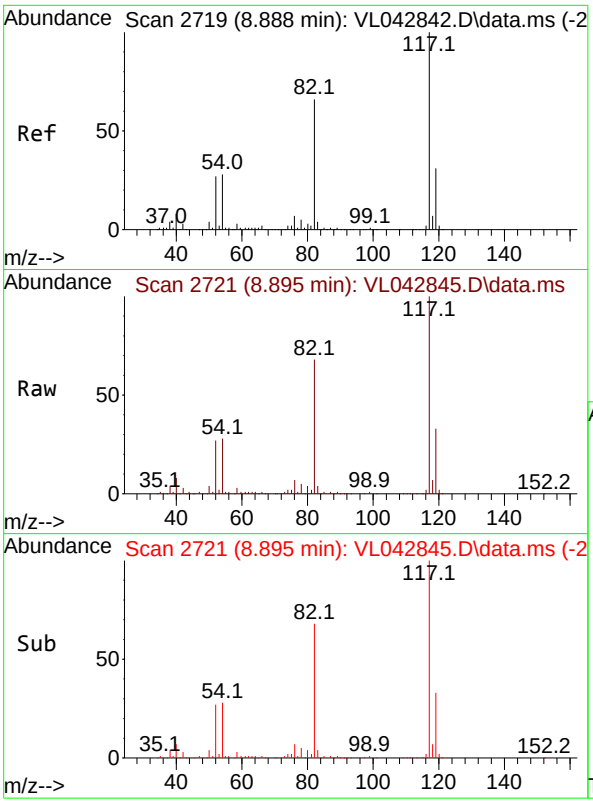


#54
1,2-Dibromoethane
Concen: 0.507 ppbv
RT: 7.668 min Scan# 2342
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion:107 Resp: 10873

Ion	Ratio	Lower	Upper
107	100		
109	81.0	72.5	108.7

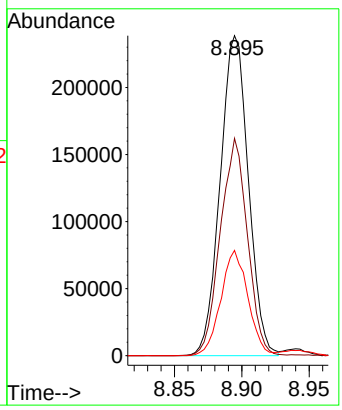




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.895 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion:117 Resp: 34800

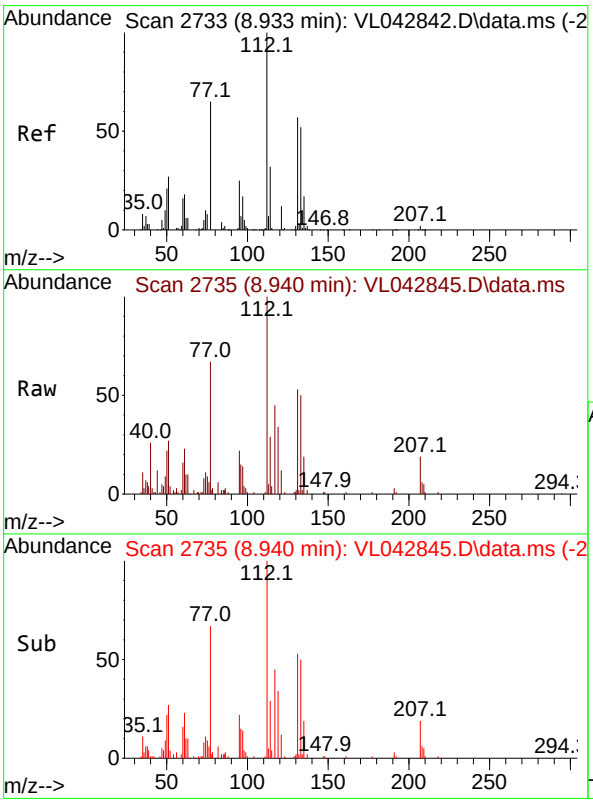
Ion	Ratio	Lower	Upper
117	100		
82	65.4	54.6	81.8
119	33.4	25.9	38.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

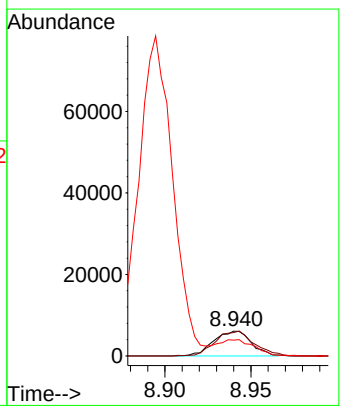
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

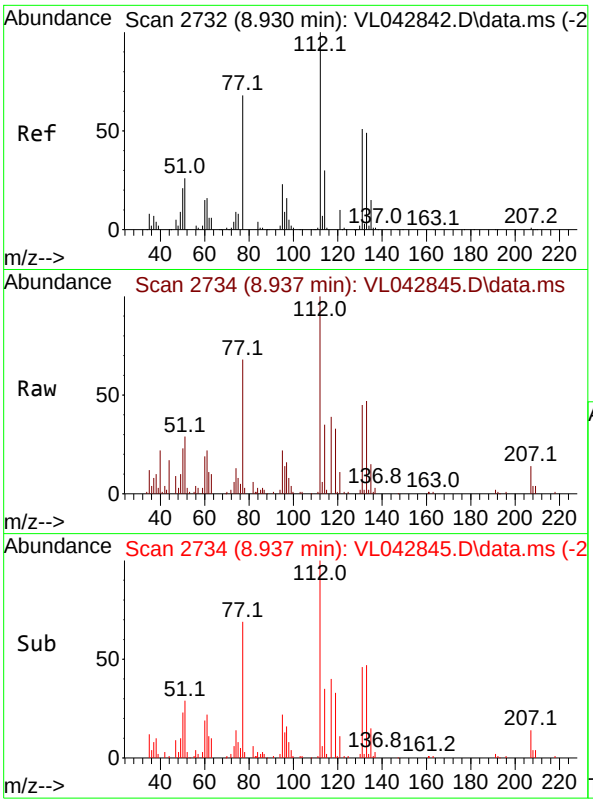


#56
1,1,1,2-Tetrachloroethane
Concen: 0.517 ppbv
RT: 8.940 min Scan# 2735
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

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#

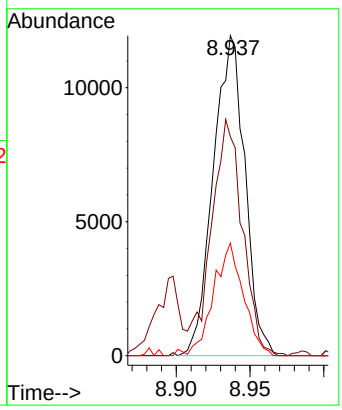




#57
Chlorobenzene
Concen: 0.539 ppbv
RT: 8.937 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion:112 Resp: 1784

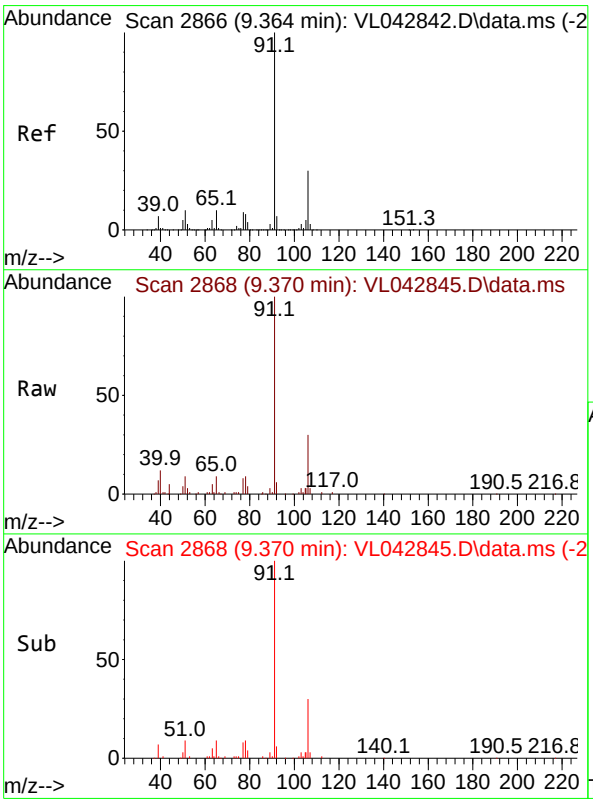
Ion	Ratio	Lower	Upper
112	100		
77	67.8	55.5	83.3
114	35.2	27.2	33.2#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

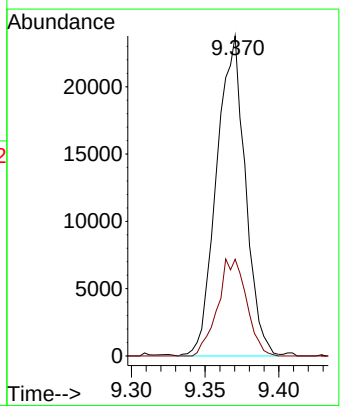
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

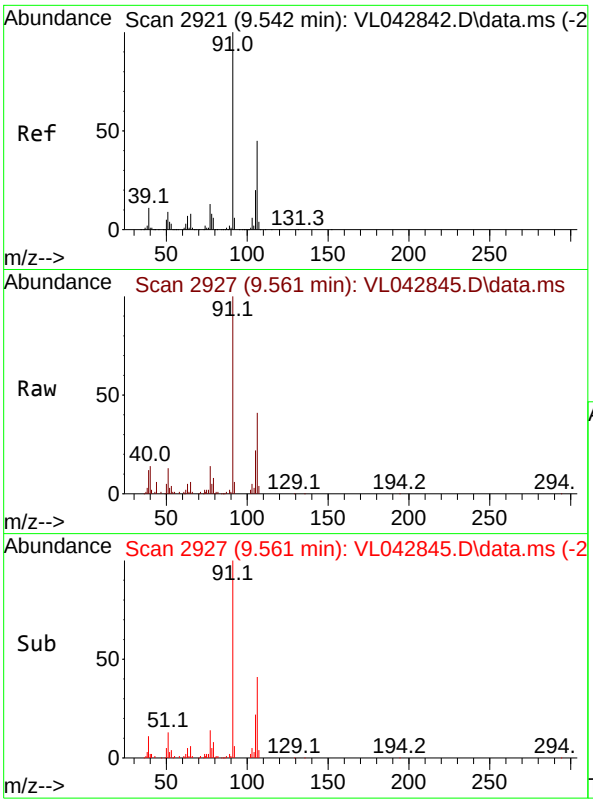


#58
Ethyl Benzene
Concen: 0.525 ppbv
RT: 9.370 min Scan# 2868
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 91 Resp: 32261

Ion	Ratio	Lower	Upper
91	100		
106	30.2	23.9	35.9

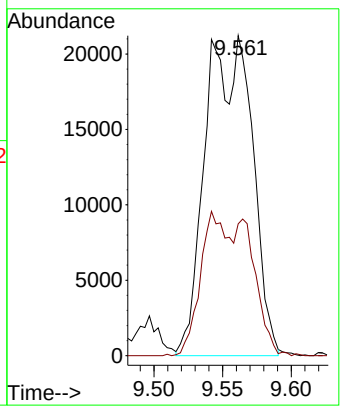




#59
m/p-Xylene
Concen: 1.045 ppbv m
RT: 9.561 min Scan# 2
Delta R.T. 0.019 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 91 Resp: 5037

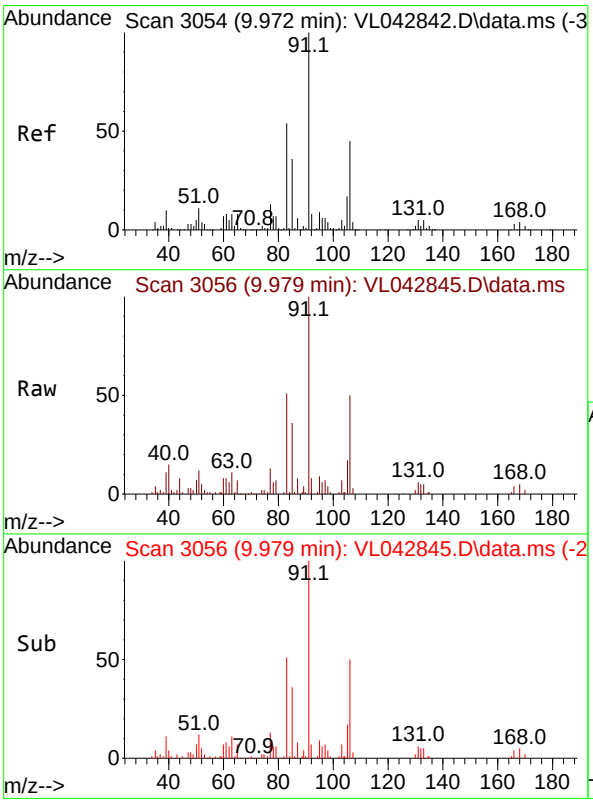
Ion	Ratio	Lower	Upper
91	100		
106	46.9	0.0	0.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

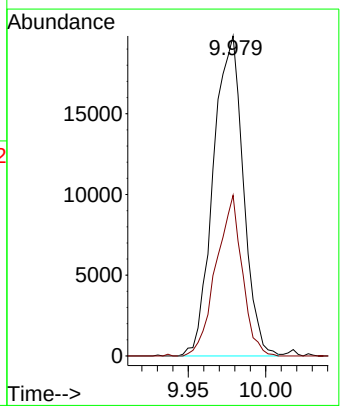
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

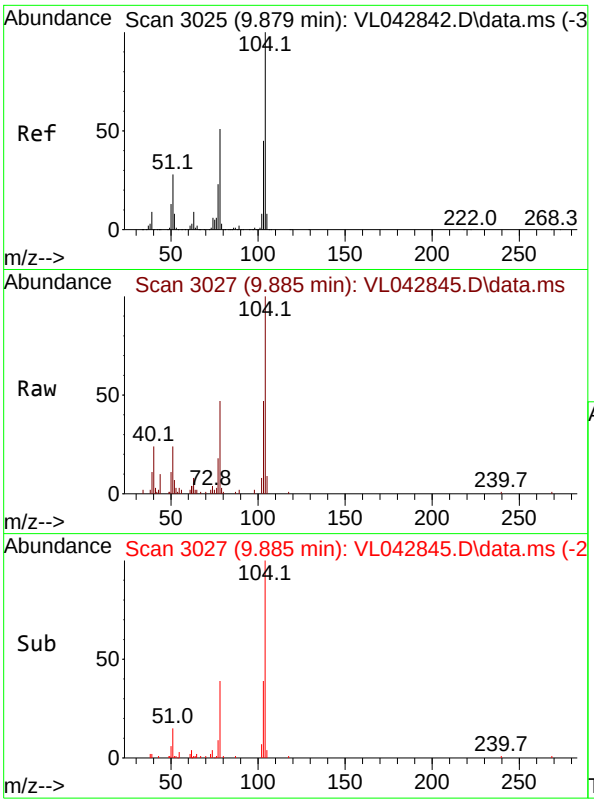


#60
o-Xylene
Concen: 0.551 ppbv
RT: 9.979 min Scan# 3056
Delta R.T. 0.007 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 91 Resp: 26662

Ion	Ratio	Lower	Upper
91	100		
106	43.8	21.8	65.4

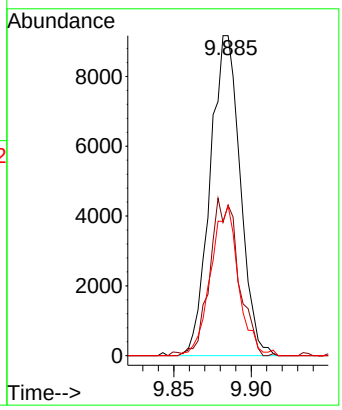




#61
Styrene
Concen: 0.546 ppbv
RT: 9.885 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion:104 Resp: 1237

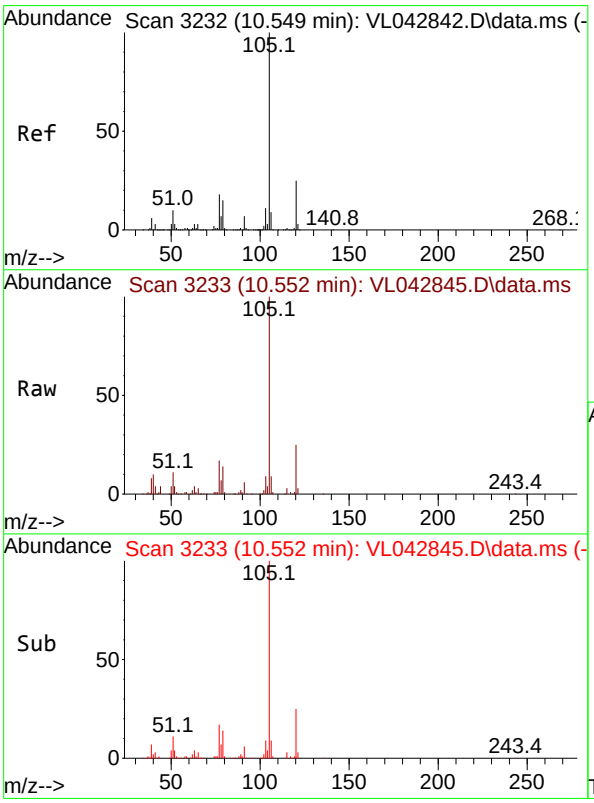
Ion	Ratio	Lower	Upper
104	100		
78	47.4	40.6	61.0
103	43.4	37.7	56.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

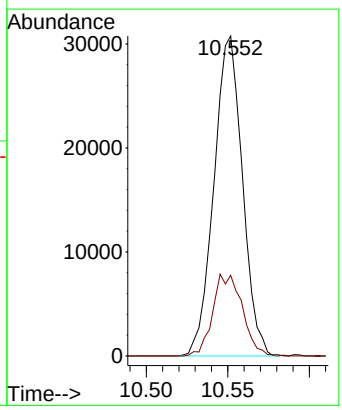
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

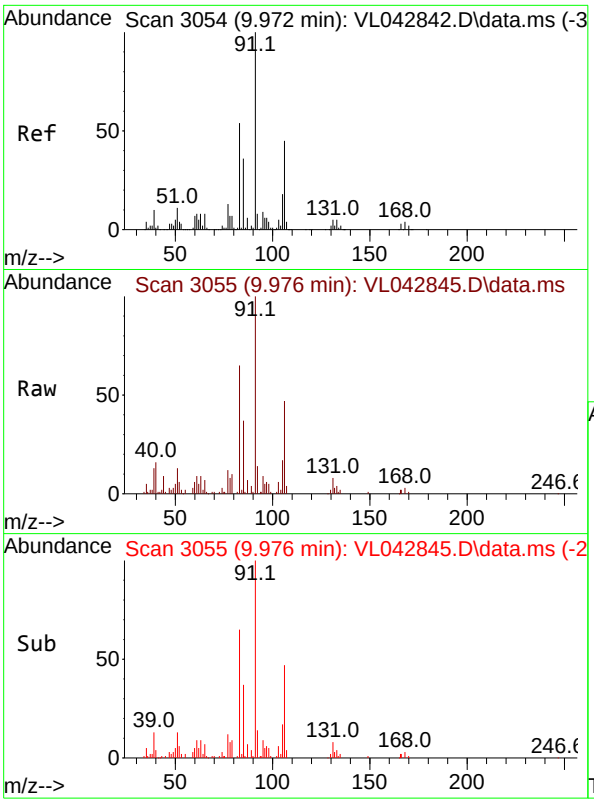


#62
Isopropylbenzene
Concen: 0.529 ppbv
RT: 10.552 min Scan# 3233
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion:105 Resp: 37401

Ion	Ratio	Lower	Upper
105	100		
120	26.5	20.6	30.8

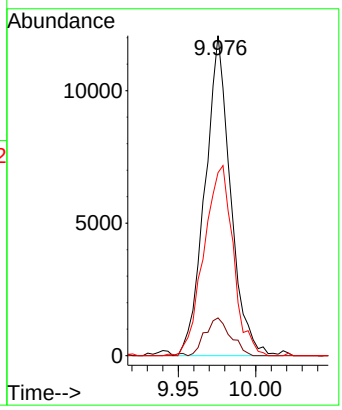




#63
1,1,2,2-Tetrachloroethane
Concen: 0.523 ppbv
RT: 9.976 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 83 Resp: 1382

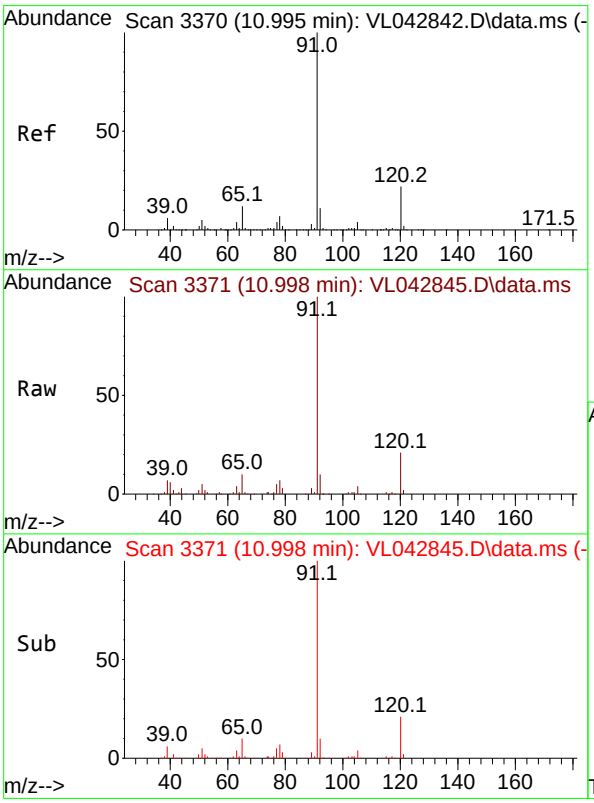
Ion	Ratio	Lower	Upper
83	100		
131	12.0	4.8	14.3
85	68.3	32.3	96.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

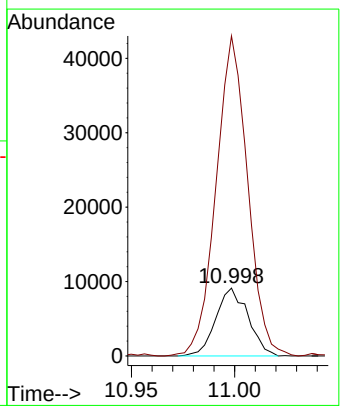
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

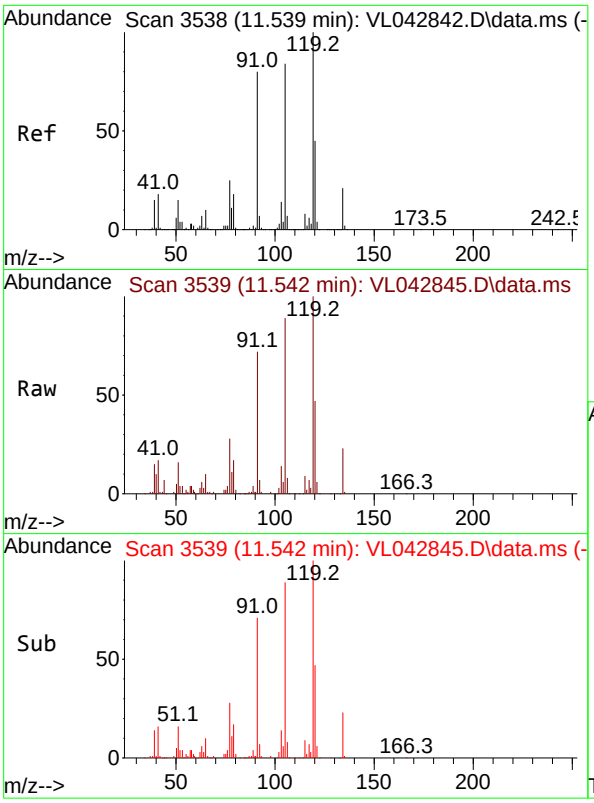


#64
n-propylbenzene
Concen: 0.550 ppbv
RT: 10.998 min Scan# 3371
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion:120 Resp: 9922

Ion	Ratio	Lower	Upper
120	100		
91	463.3	375.8	563.6

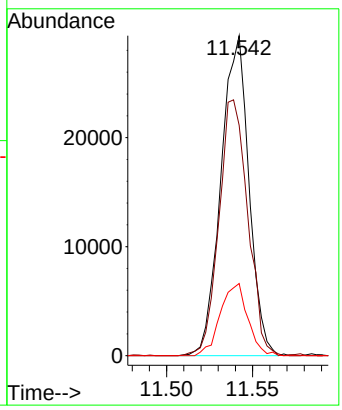




#65
tert-Butylbenzene
Concen: 0.532 ppbv
RT: 11.542 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion:119 Resp: 3318

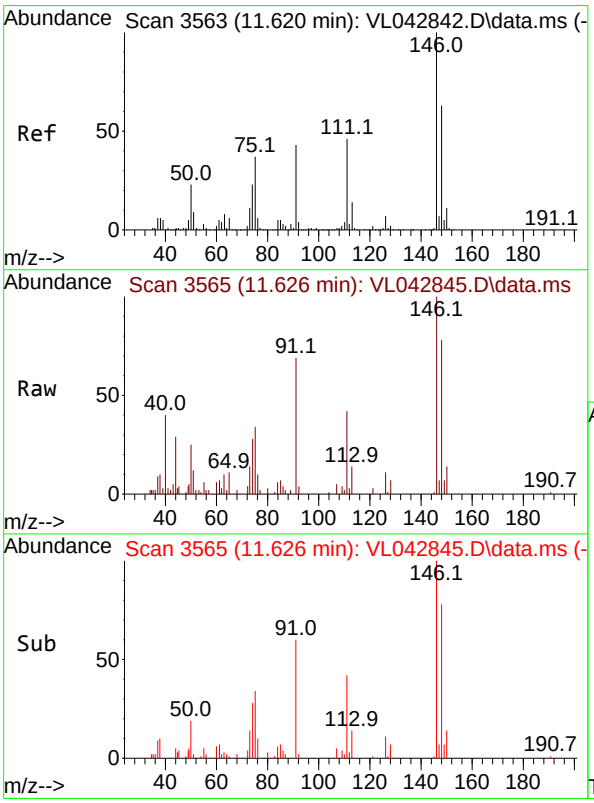
Ion	Ratio	Lower	Upper
119	100		
91	82.8	63.9	95.9
134	22.1	17.0	25.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

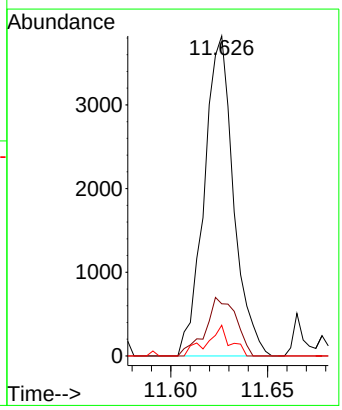
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

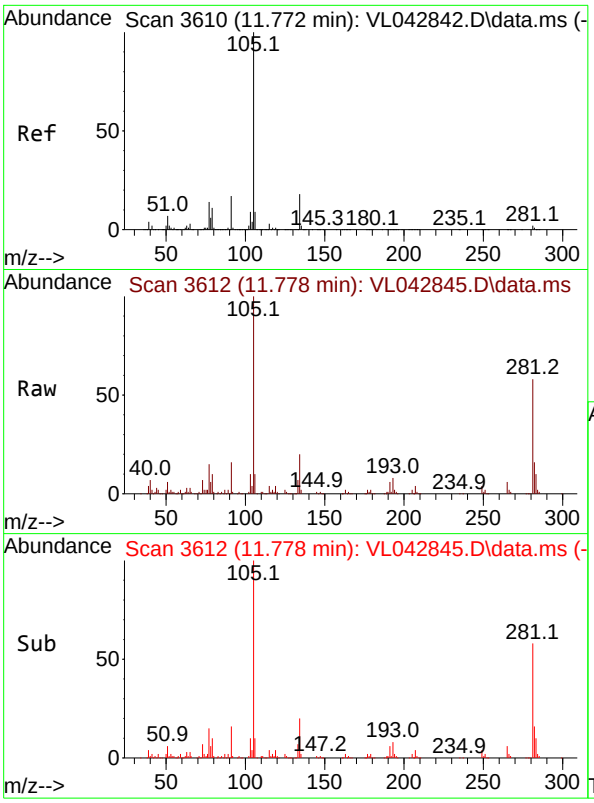


#66
Benzyl Chloride
Concen: 0.510 ppbv
RT: 11.626 min Scan# 3565
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

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#

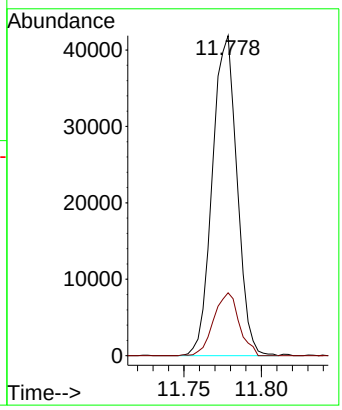




#67
sec-Butylbenzene
Concen: 0.530 ppbv
RT: 11.778 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion:105 Resp: 4643

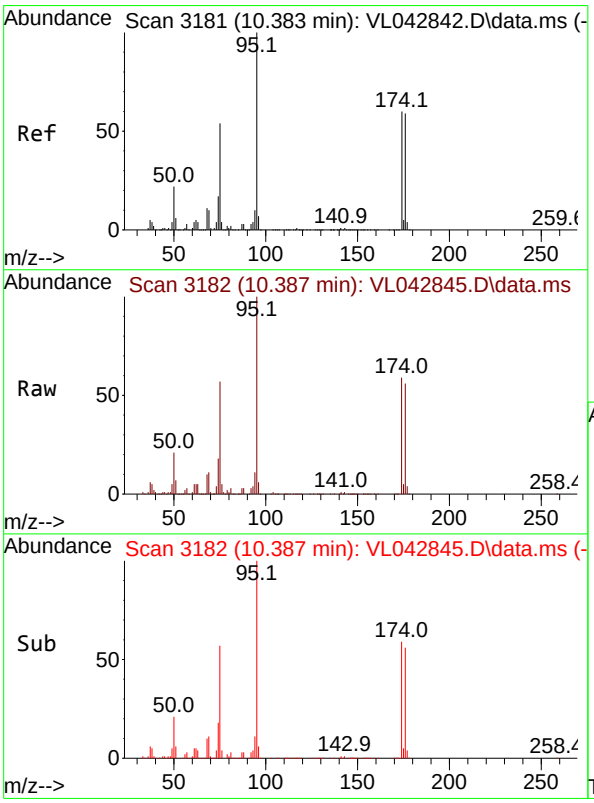
Ion	Ratio	Lower	Upper
105	100		
134	20.3	14.9	22.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

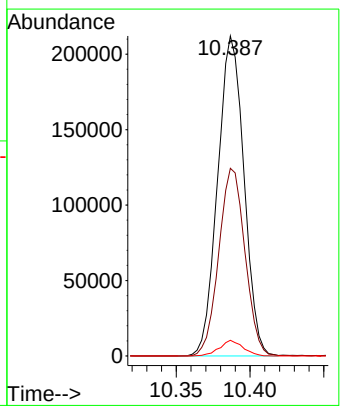
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

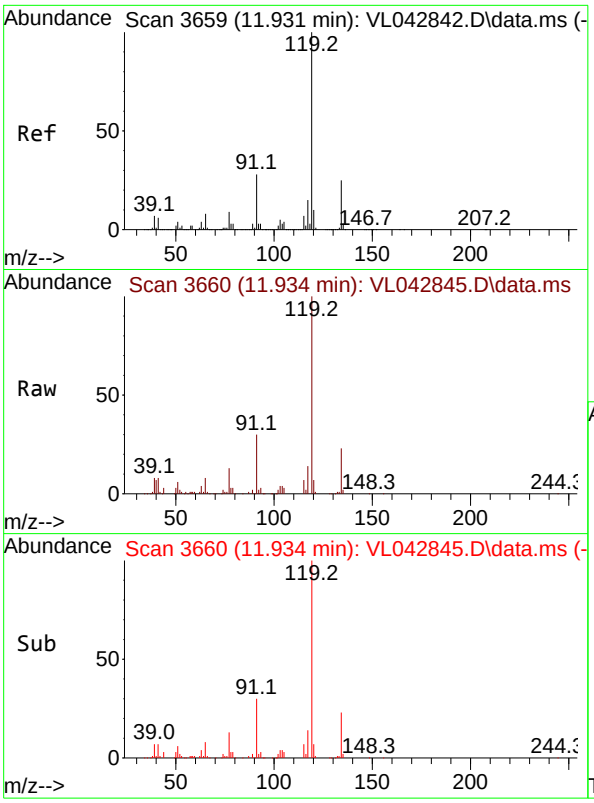


#68
1-Bromo-4-Fluorobenzene
Concen: 10.064 ppbv
RT: 10.387 min Scan# 3182
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

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

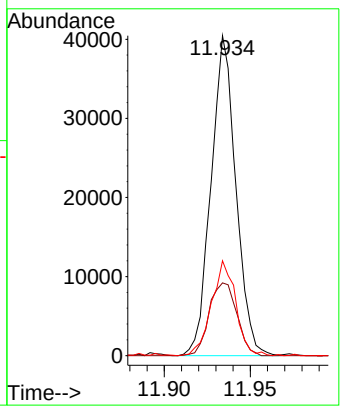




#69
p-Isopropyltoluene
Concen: 0.541 ppbv
RT: 11.934 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion:119 Resp: 4068

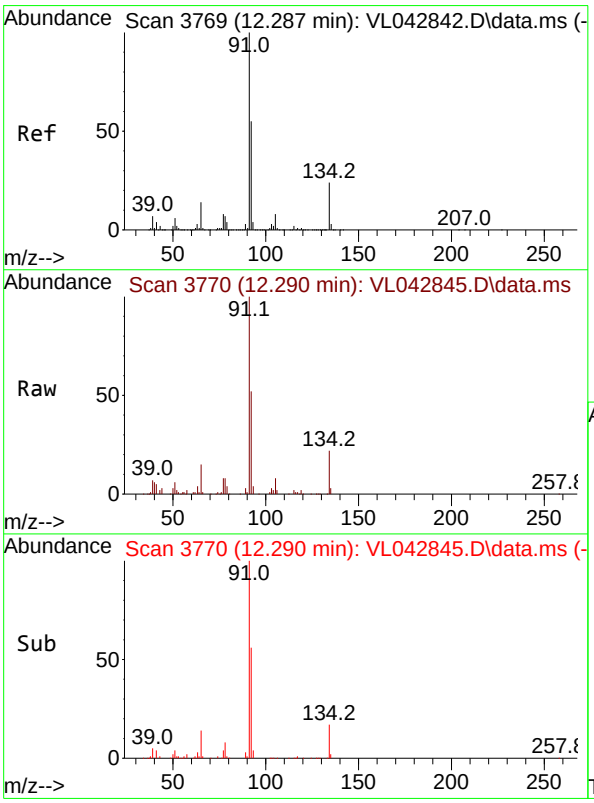
Ion	Ratio	Lower	Upper
119	100		
134	25.4	20.6	30.8
91	29.0	22.6	34.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

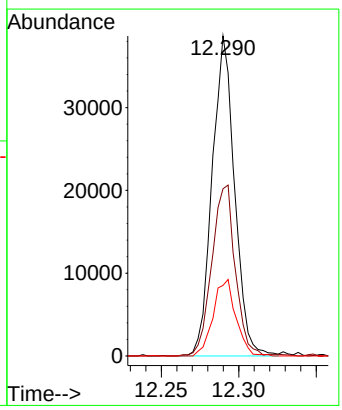
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

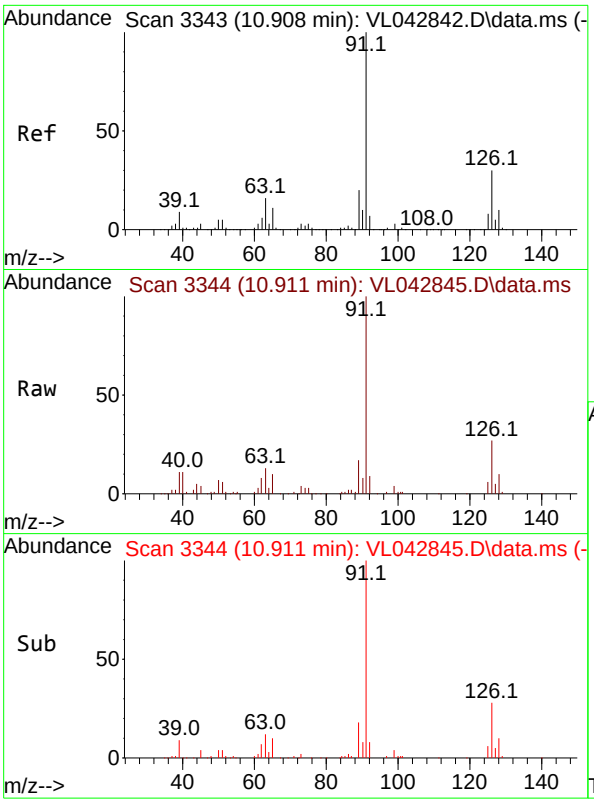


#70
n-Butylbenzene
Concen: 0.521 ppbv
RT: 12.290 min Scan# 3770
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

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

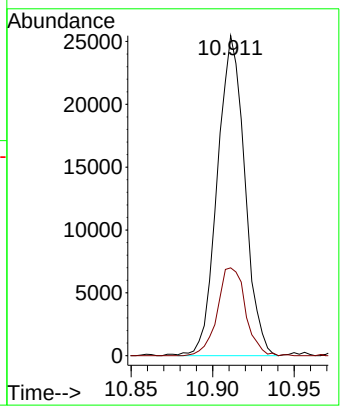




#71
2-Chlorotoluene
Concen: 0.541 ppbv
RT: 10.911 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 91 Resp: 2973

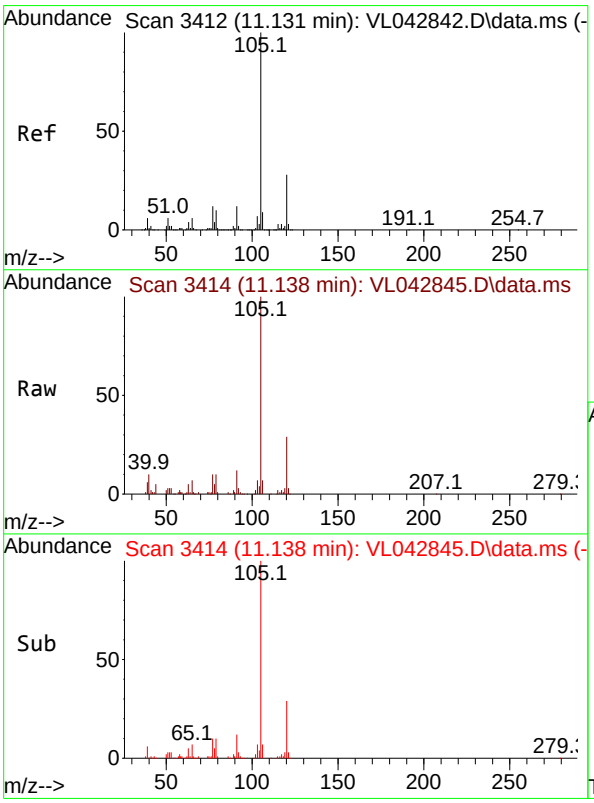
Ion	Ratio	Lower	Upper
91	100		
126	28.2	12.0	47.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

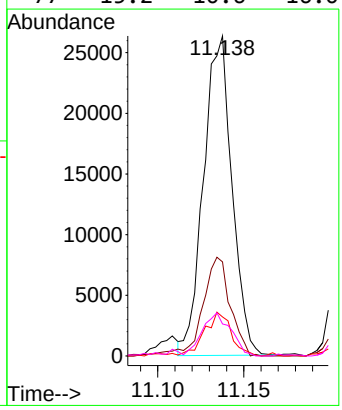
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

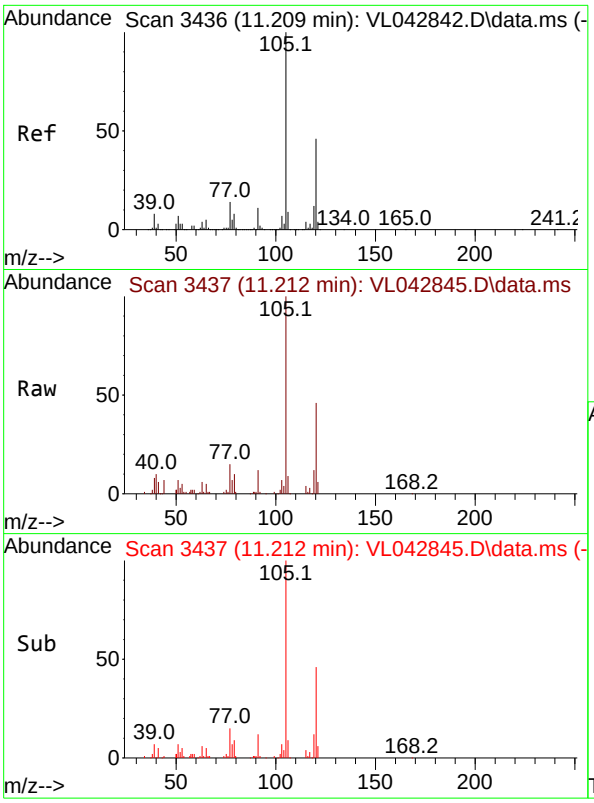


#72
4-Ethyltoluene
Concen: 0.515 ppbv
RT: 11.138 min Scan# 3414
Delta R.T. 0.007 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

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

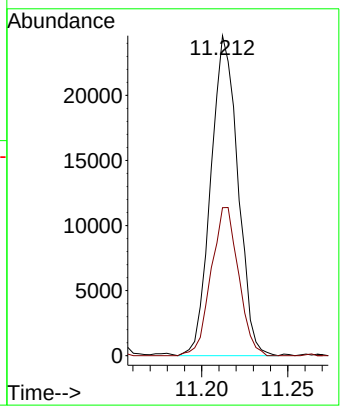




#73
1,3,5-Trimethylbenzene
Concen: 0.540 ppbv
RT: 11.212 min Scan# 34
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion:105 Resp: 2694

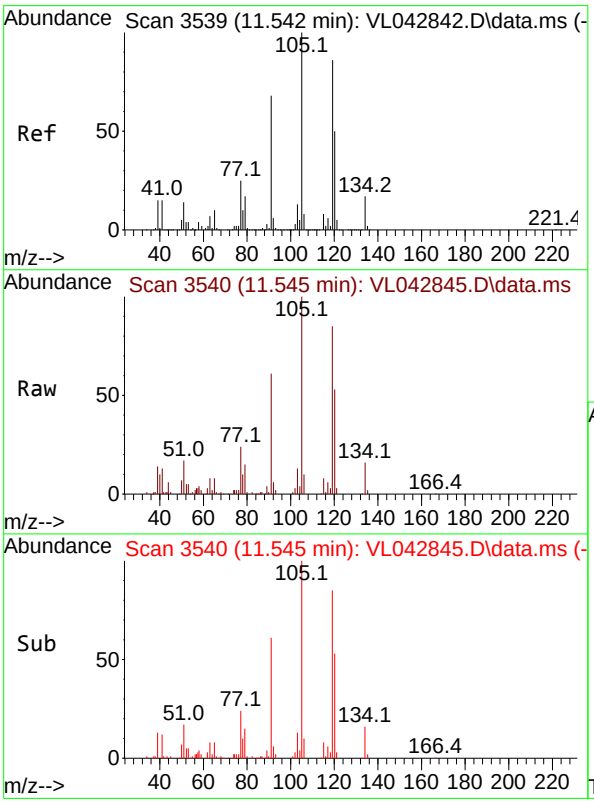
Ion	Ratio	Lower	Upper
105	100		
120	46.2	36.6	54.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

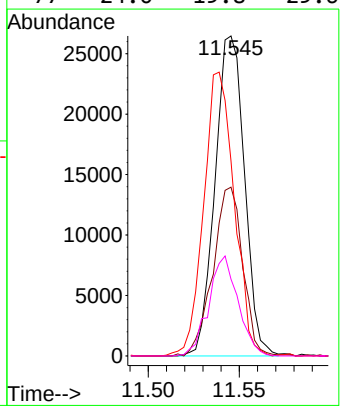
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

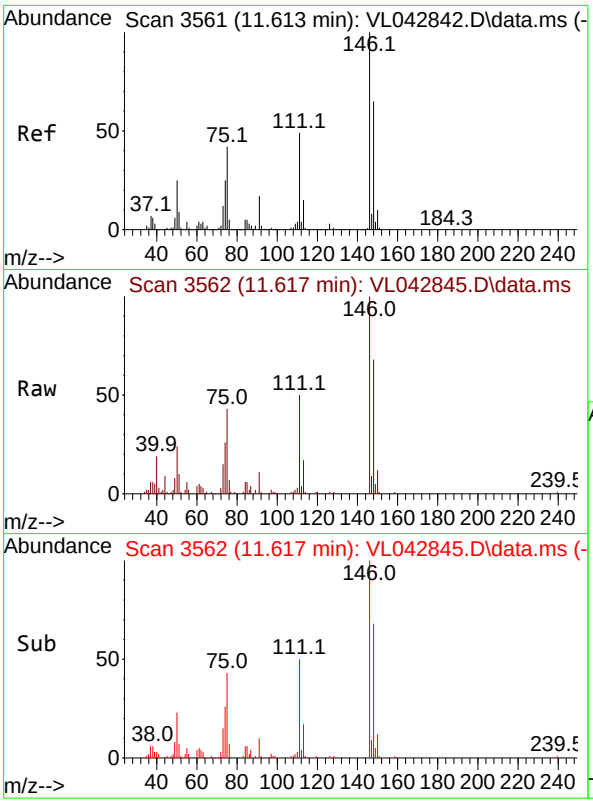


#74
1,2,4-Trimethylbenzene
Concen: 0.543 ppbv
RT: 11.545 min Scan# 3540
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

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

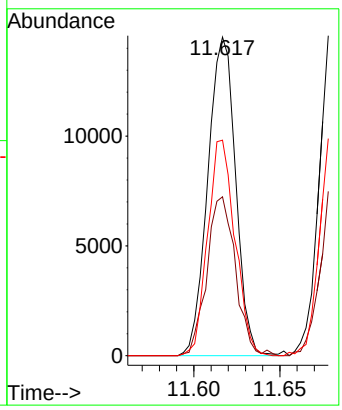




#75
1,3-Dichlorobenzene
Concen: 0.524 ppbv
RT: 11.617 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion:146 Resp: 1631

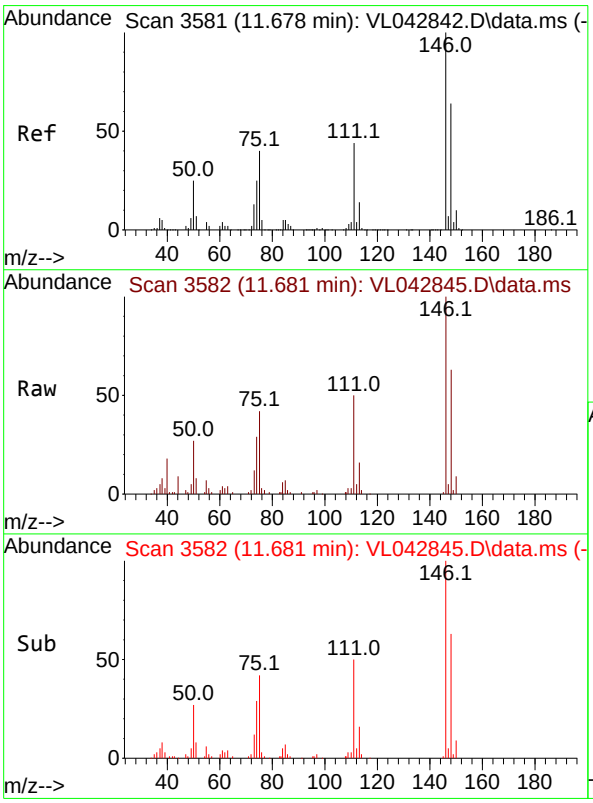
Ion	Ratio	Lower	Upper
146	100		
111	51.2	23.9	71.7
148	66.5	31.4	94.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

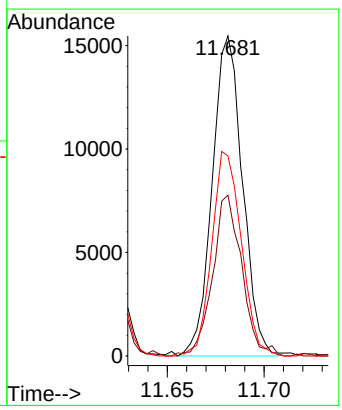
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

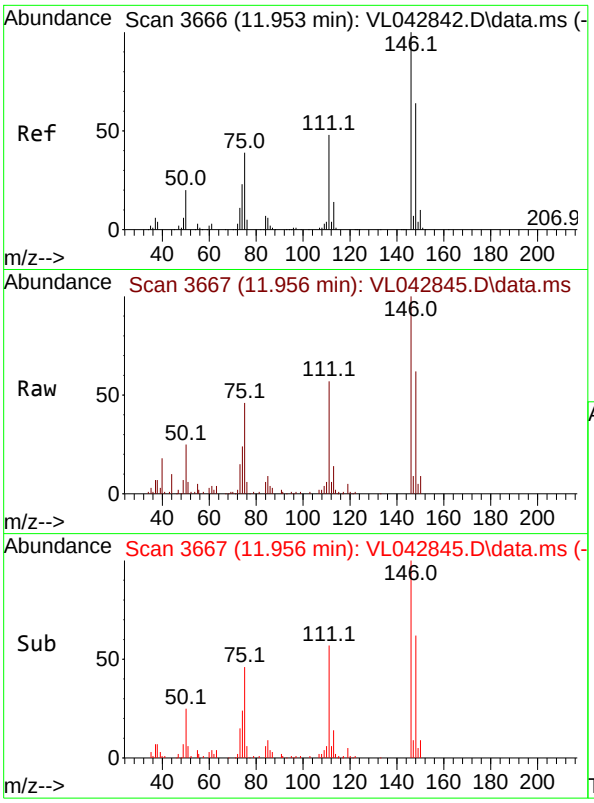


#76
1,4-Dichlorobenzene
Concen: 0.533 ppbv
RT: 11.681 min Scan# 3582
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

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

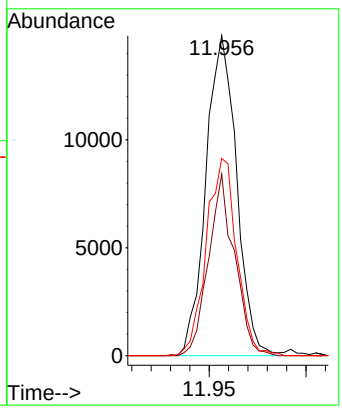




#77
1,2-Dichlorobenzene
Concen: 0.535 ppbv
RT: 11.956 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion:146 Resp: 1630

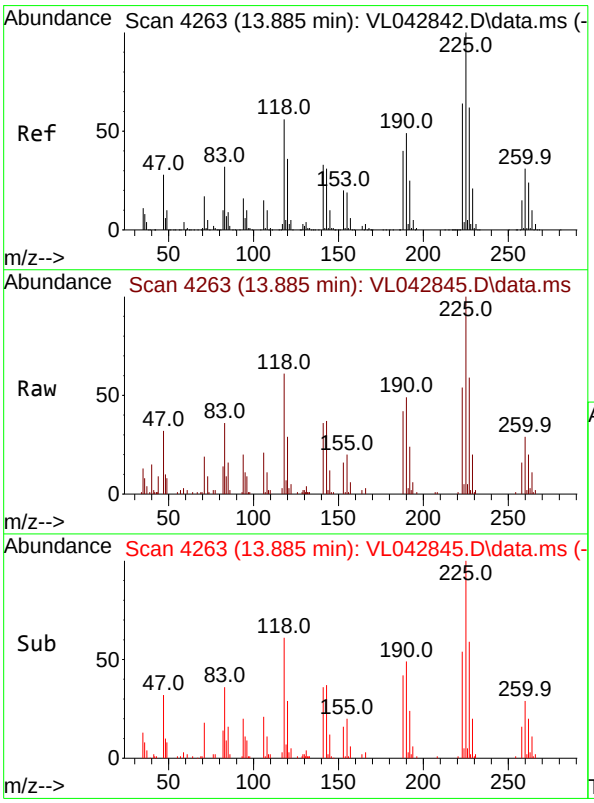
Ion	Ratio	Lower	Upper
146	100		
111	48.2	24.6	74.0
148	61.1	32.0	96.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

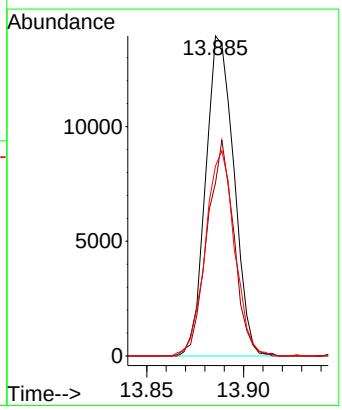
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

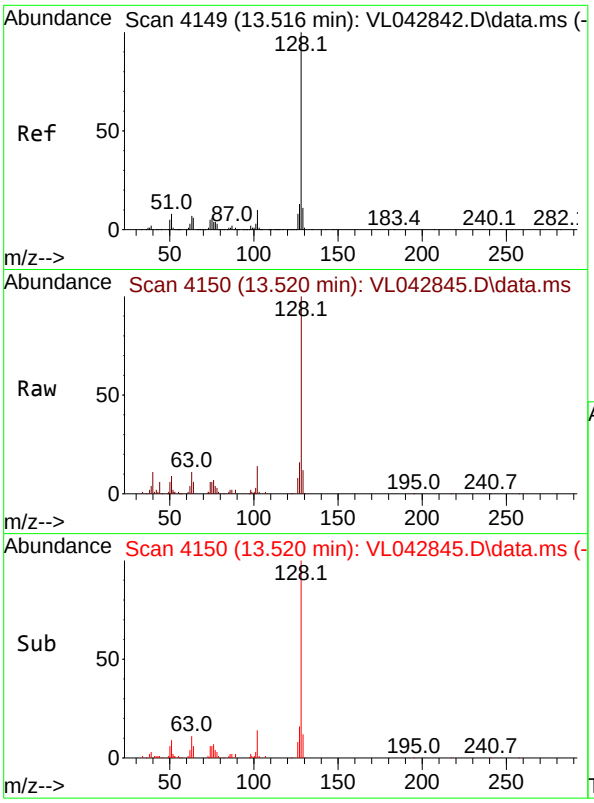


#78
Hexachloro-1,3-Butadiene
Concen: 0.567 ppbv
RT: 13.885 min Scan# 4263
Delta R.T. 0.000 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

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

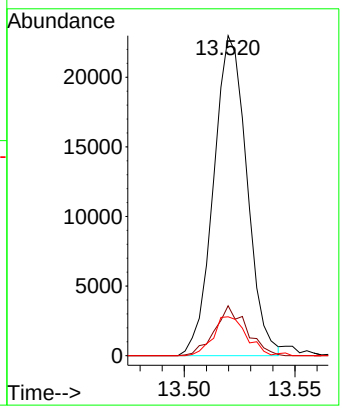




#79
Naphthalene
Concen: 0.491 ppbv
RT: 13.520 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion:128 Resp: 2405

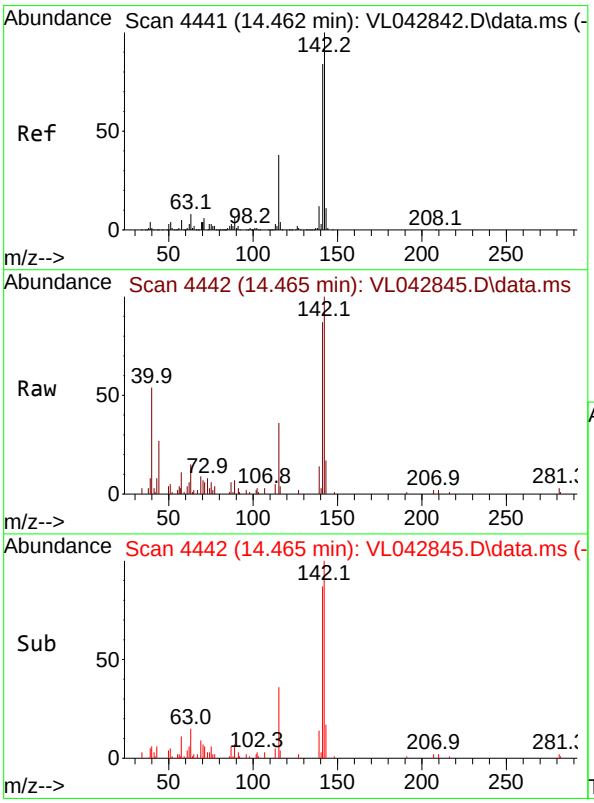
Ion	Ratio	Lower	Upper
128	100		
127	15.6	10.6	16.0
129	12.2	8.9	13.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

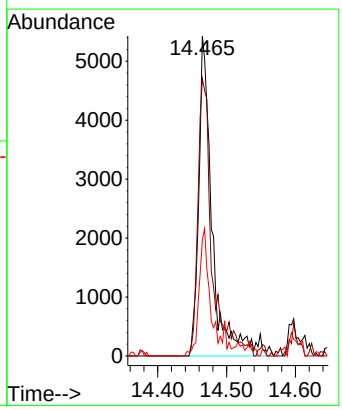
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

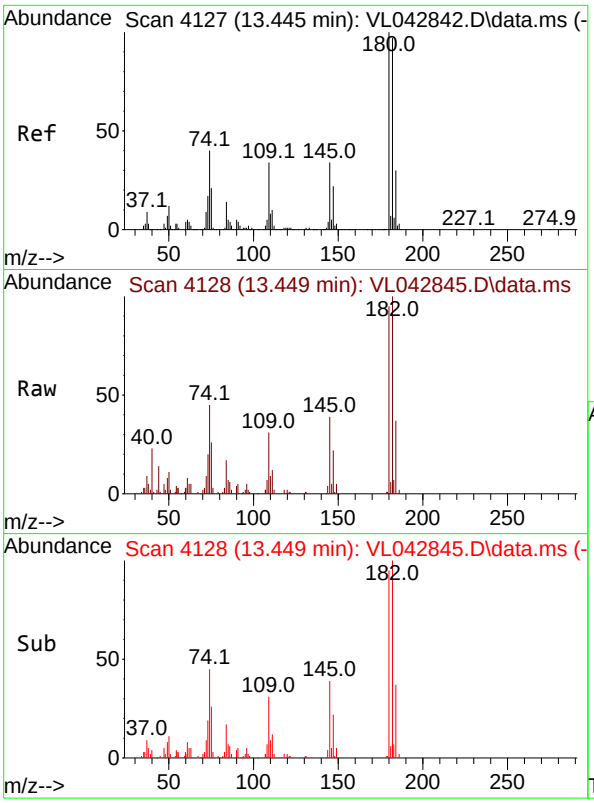


#80
Naphthalene,2-methyl-
Concen: 0.405 ppbv
RT: 14.465 min Scan# 4442
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

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

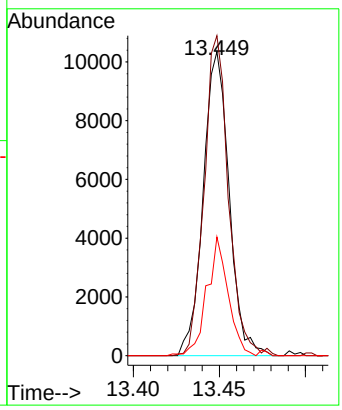




#81
1,2,4-Trichlorobenzene
Concen: 0.434 ppbv
RT: 13.449 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

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



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

Quantitation Report (QT Reviewed)

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

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 1
QLast Update : Thu Aug 14 01:44:36 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

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	2.790	49	123711	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	390520	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	345073	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	257439	9.948	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.500%			
Target Compounds						Qvalue
5) Vinyl Chloride	1.583	62	790	0.110	ppbv #	86
32) 1,1,1-Trichloroethane	3.373	97	3128m	0.113	ppbv	
35) Carbon Tetrachloride	3.774	117	2883	0.107	ppbv	89
38) Trichloroethene	4.557	130	1748m	0.102	ppbv	
52) Tetrachloroethene	8.234	164	1479m	0.109	ppbv	
54) 1,2-Dibromoethane	7.665	107	2339m	0.111	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.972	83	2672	0.102	ppbv	99
79) Naphthalene	13.520	128	4051m	0.083	ppbv	

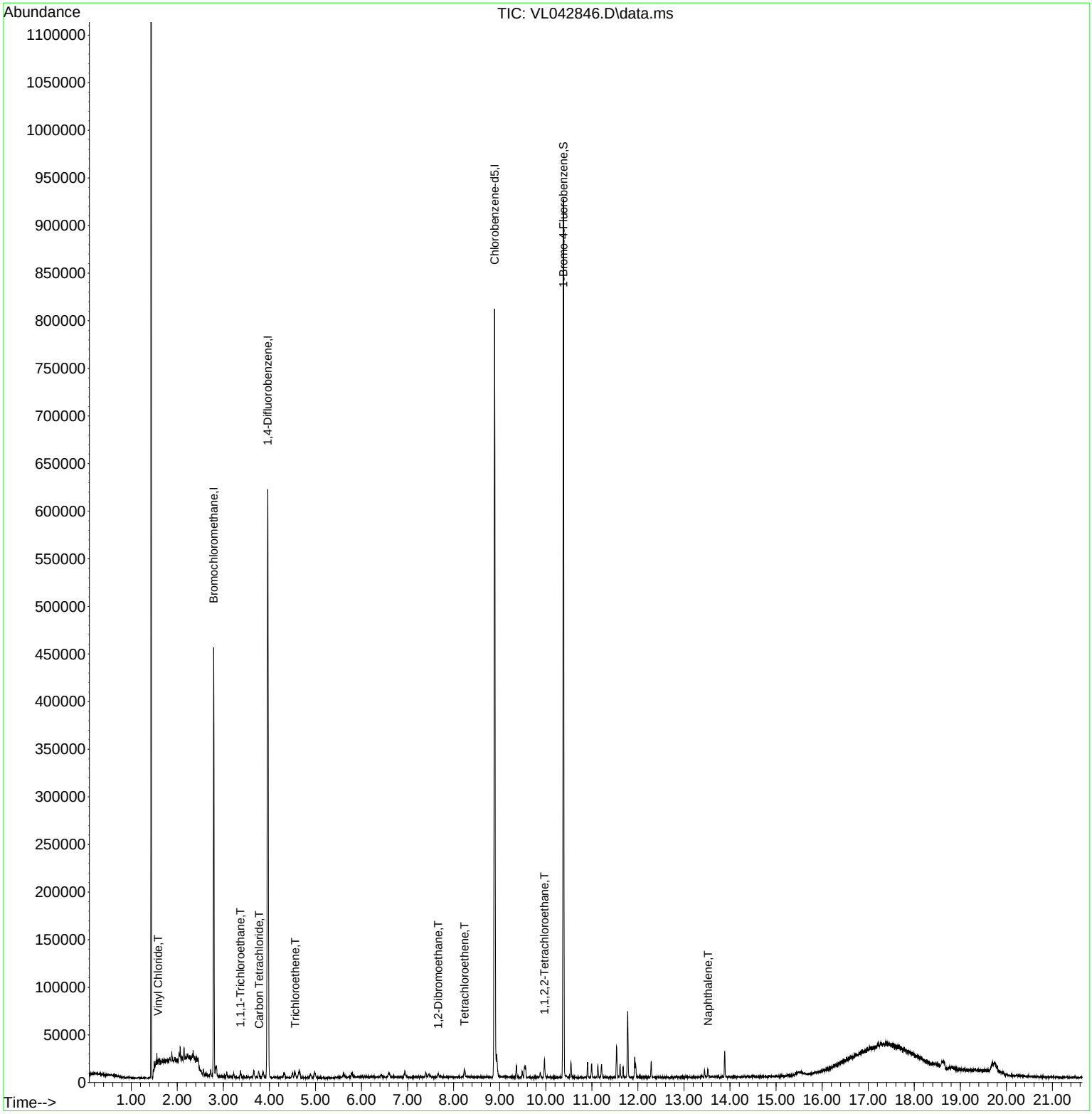
(#) = qualifier out of range (m) = manual integration (+) = signals summed

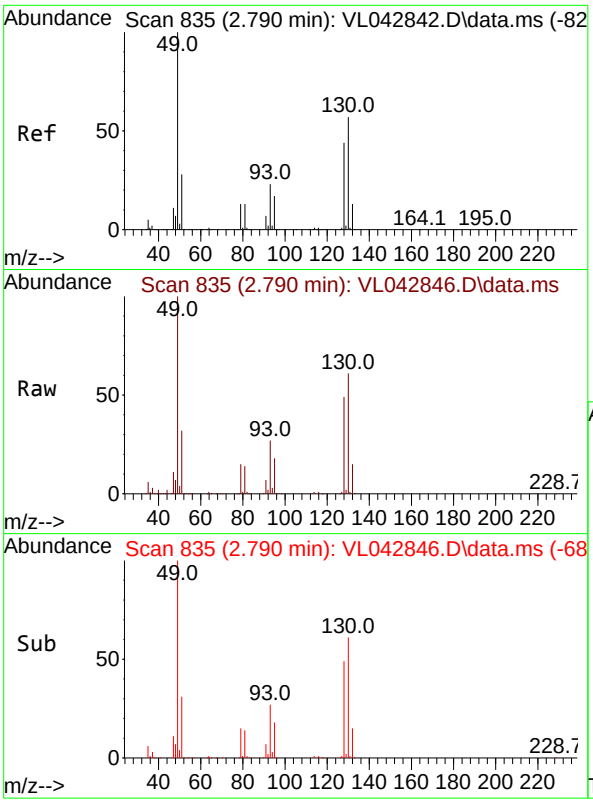
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
Data File : VL042846.D
Acq On : 13 Aug 2025 10:53
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

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

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

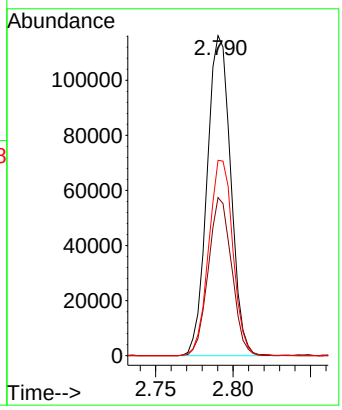




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Tgt Ion: 49 Resp: 12371

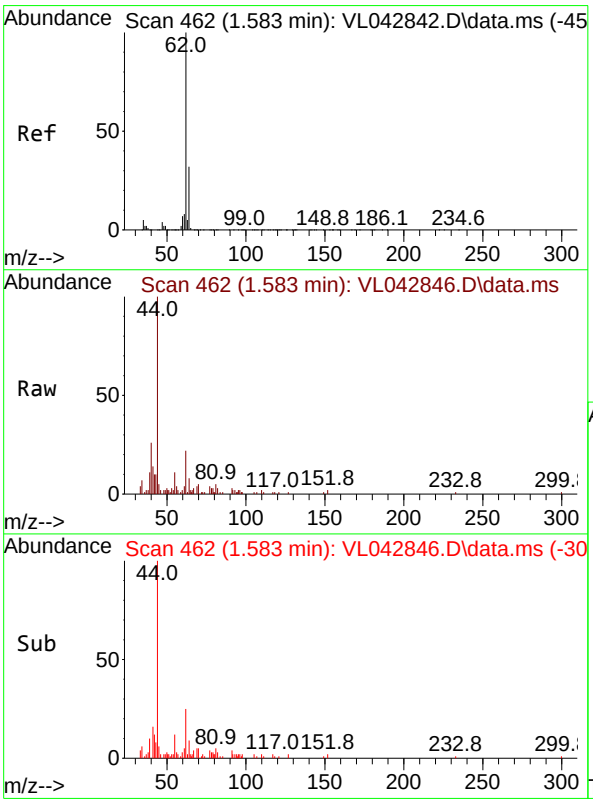
Ion	Ratio	Lower	Upper
49	100		
128	48.6	23.7	71.1
130	62.1	30.6	91.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

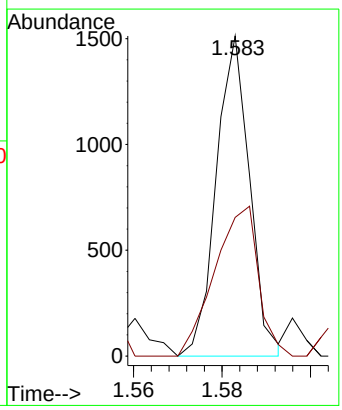
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

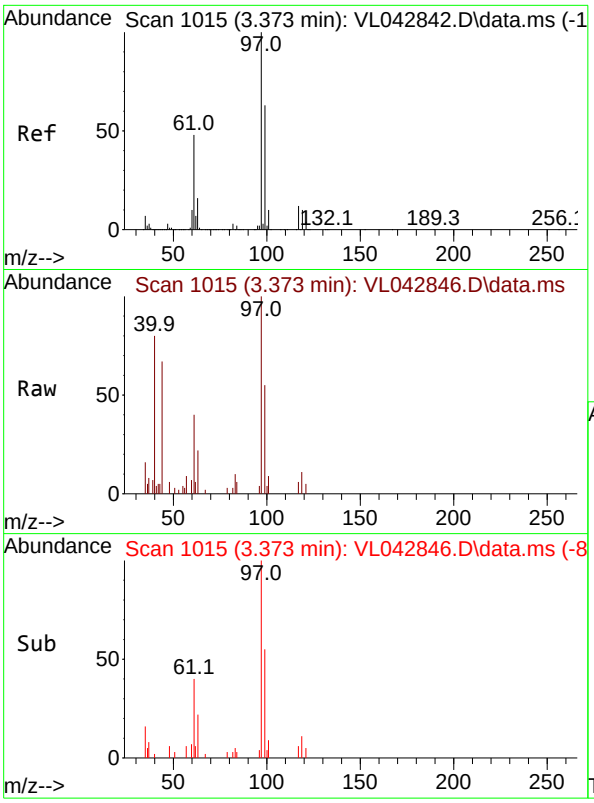


#5
Vinyl Chloride
Concen: 0.110 ppbv
RT: 1.583 min Scan# 462
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Tgt Ion: 62 Resp: 790

Ion	Ratio	Lower	Upper
62	100		
64	39.7	25.4	38.2#

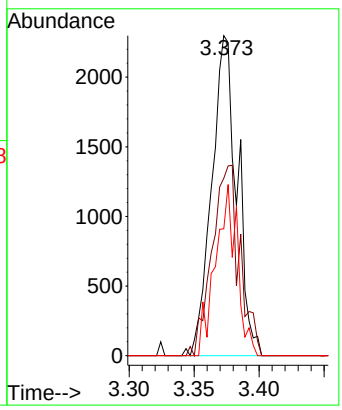




#32
1,1,1-Trichloroethane
Concen: 0.113 ppbv m
RT: 3.373 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Tgt Ion: 97 Resp: 312

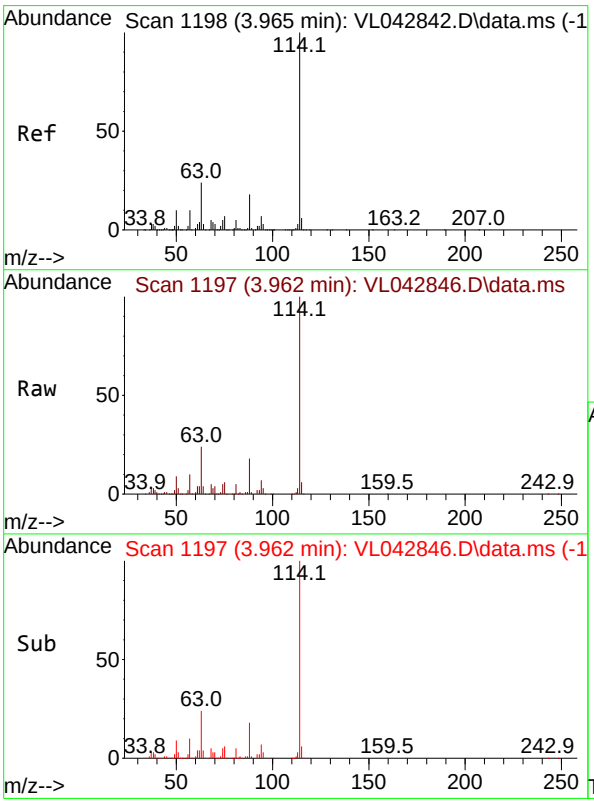
Ion	Ratio	Lower	Upper
97	100		
99	64.1	51.0	76.6
61	45.6	38.0	57.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

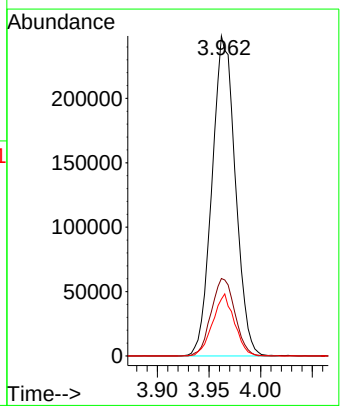
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

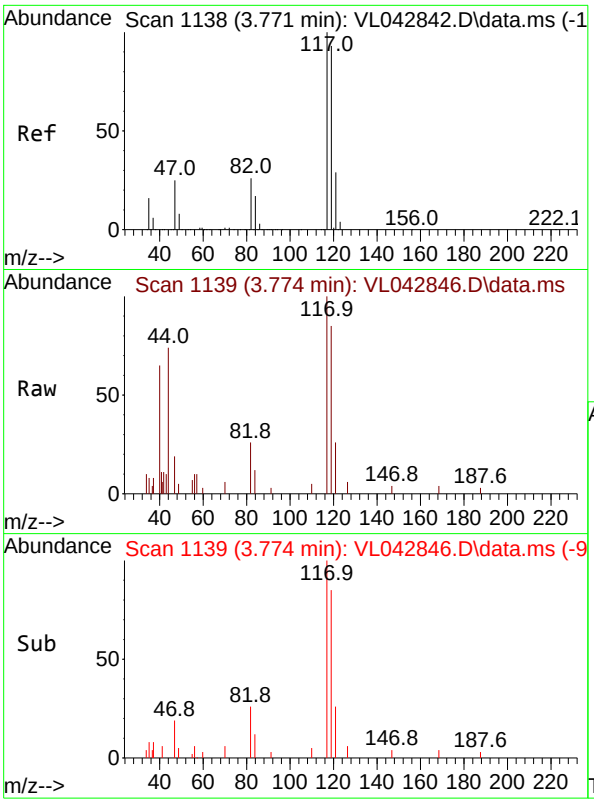


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. -0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

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

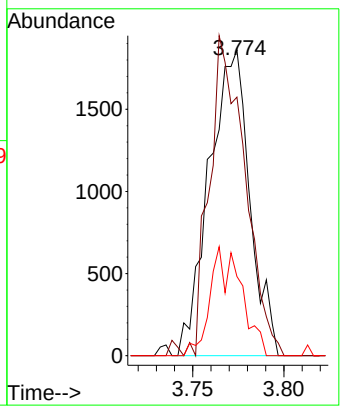




#35
Carbon Tetrachloride
Concen: 0.107 ppbv
RT: 3.774 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Tgt Ion:117 Resp: 288

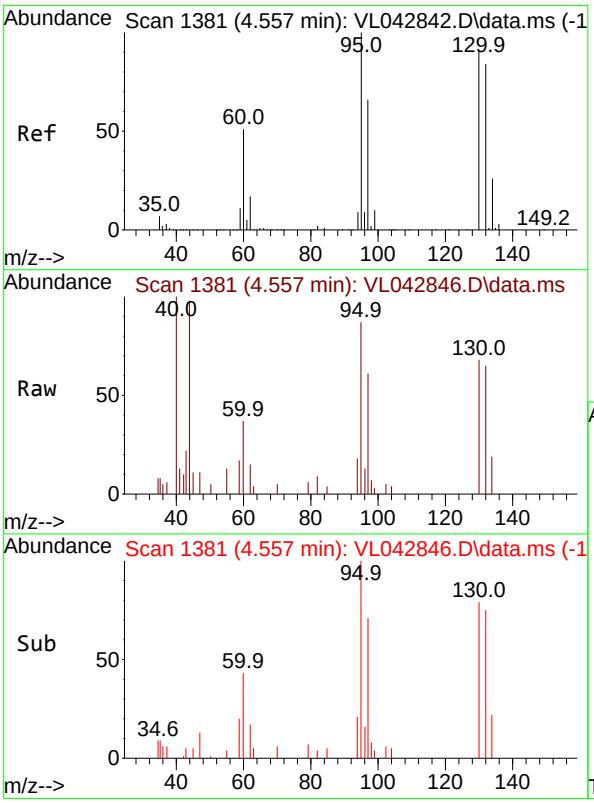
Ion	Ratio	Lower	Upper
117	100		
119	81.8	74.7	112.1
121	25.9	23.2	34.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

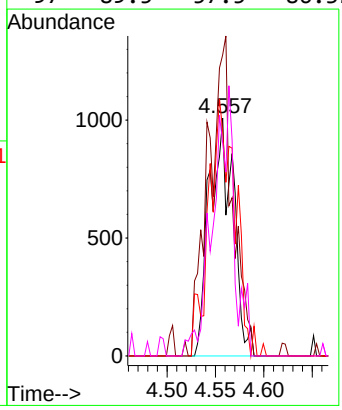
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

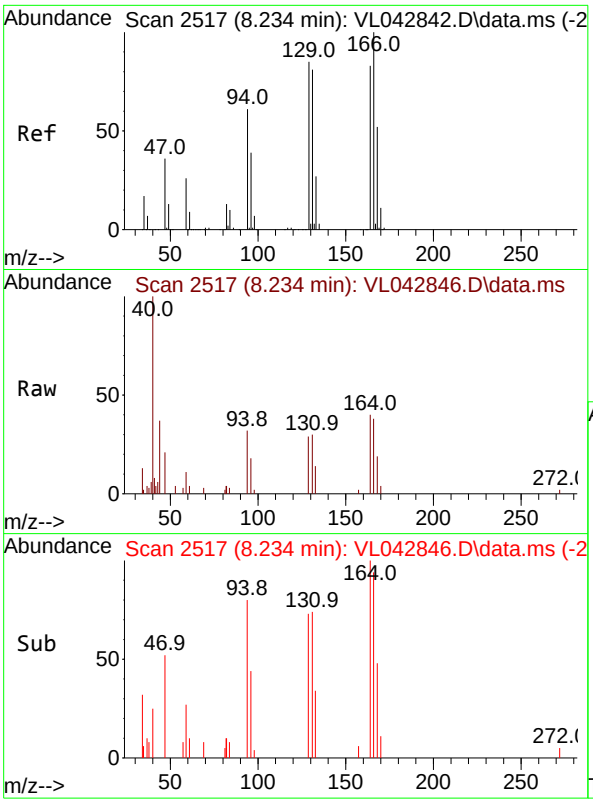


#38
Trichloroethene
Concen: 0.102 ppbv m
RT: 4.557 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

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#

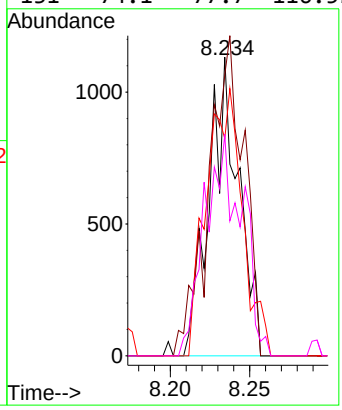




#52
Tetrachloroethene
Concen: 0.109 ppbv m
RT: 8.234 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Tgt Ion:164 Resp: 147

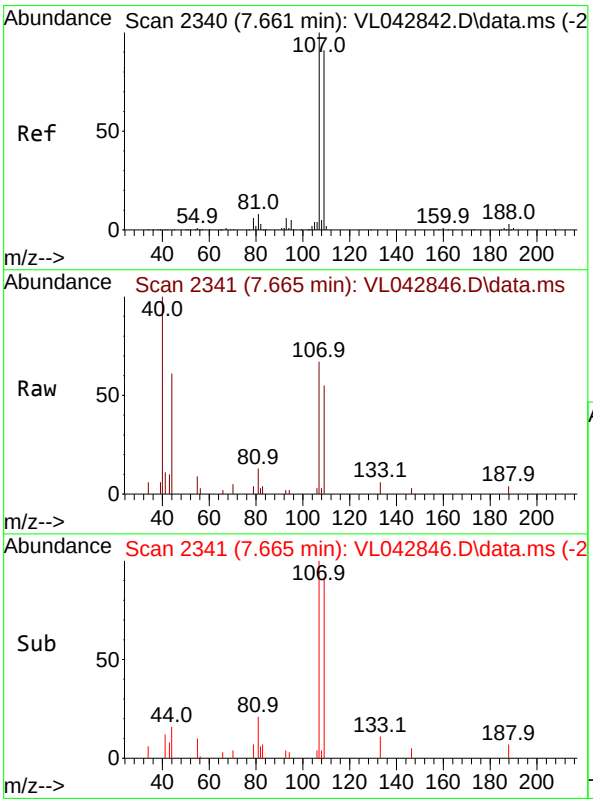
Ion	Ratio	Lower	Upper
164	100		
166	94.0	96.5	144.7#
129	72.7	81.8	122.6#
131	74.1	77.7	116.5#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

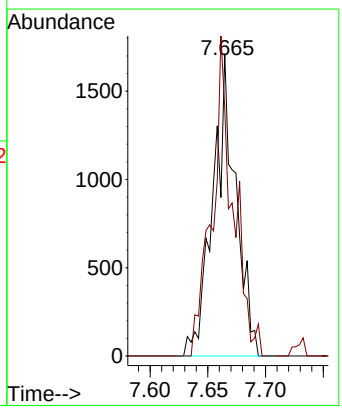
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

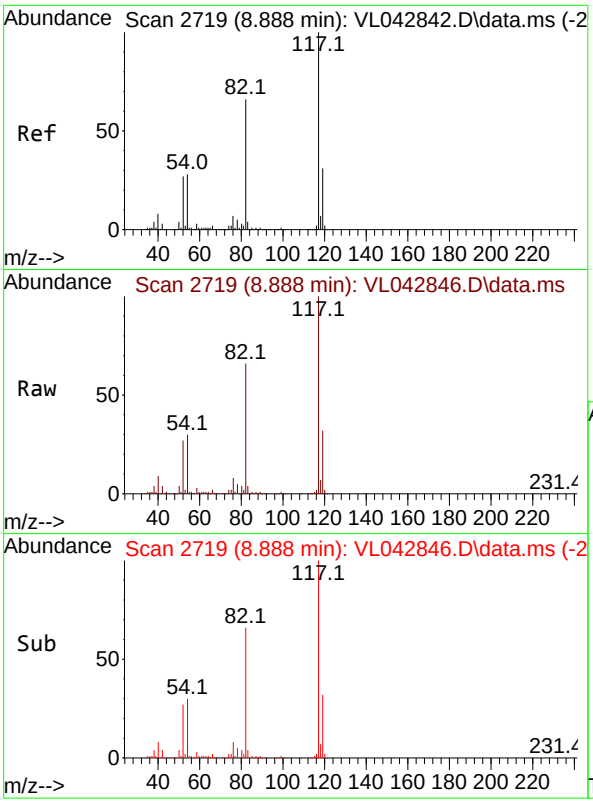


#54
1,2-Dibromoethane
Concen: 0.111 ppbv m
RT: 7.665 min Scan# 2341
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Tgt Ion:107 Resp: 2339

Ion	Ratio	Lower	Upper
107	100		
109	82.0	72.5	108.7

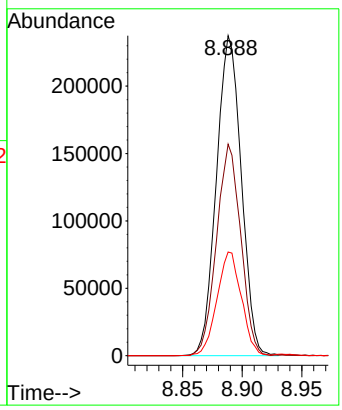




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Tgt Ion:117 Resp: 34507

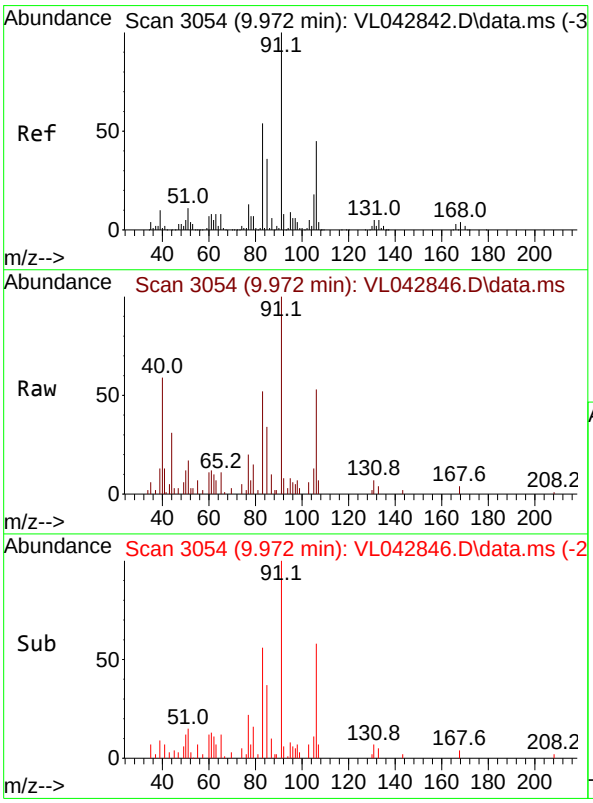
Ion	Ratio	Lower	Upper
117	100		
82	64.3	54.6	81.8
119	32.2	25.9	38.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

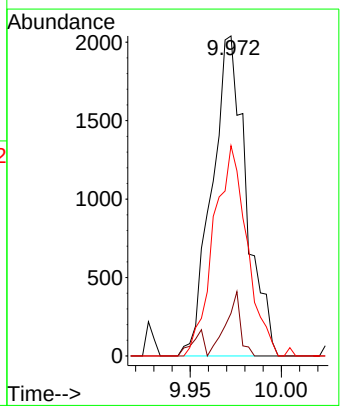
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

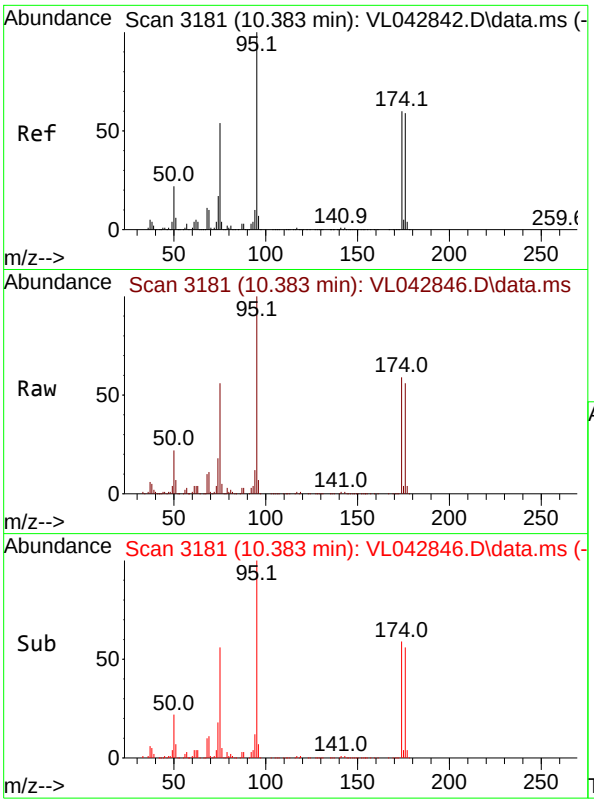


#63
1,1,2,2-Tetrachloroethane
Concen: 0.102 ppbv
RT: 9.972 min Scan# 3054
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

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

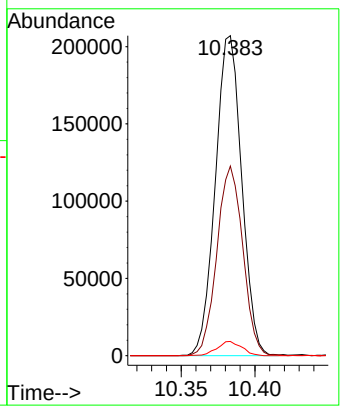




#68
1-Bromo-4-Fluorobenzene
Concen: 9.948 ppbv
RT: 10.383 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Tgt Ion: 95 Resp: 25743

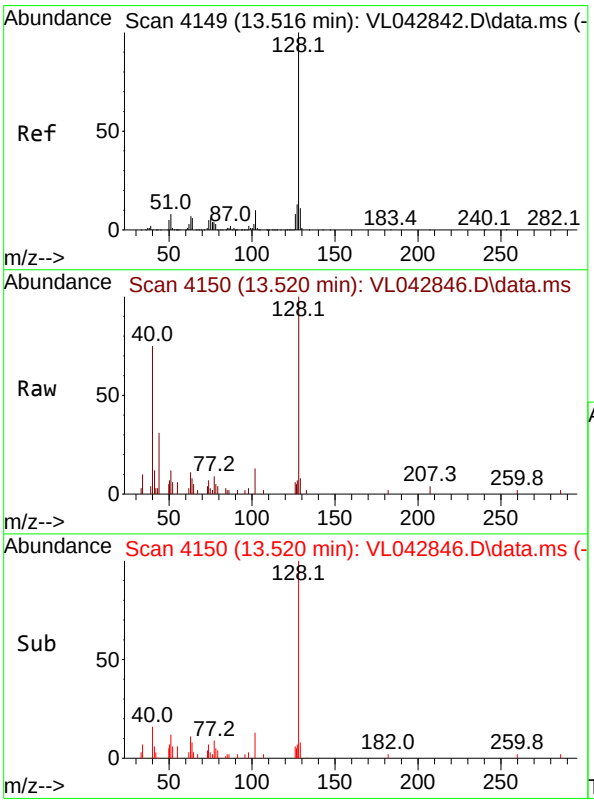
Ion	Ratio	Lower	Upper
95	100		
174	58.3	48.4	72.6
175	4.2	3.8	5.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

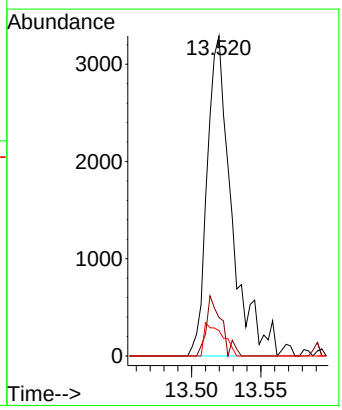
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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#



Quantitation Report (QT Reviewed)

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

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
QLast Update : Thu Aug 14 01:44:36 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

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	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

Quantitation Report (QT Reviewed)

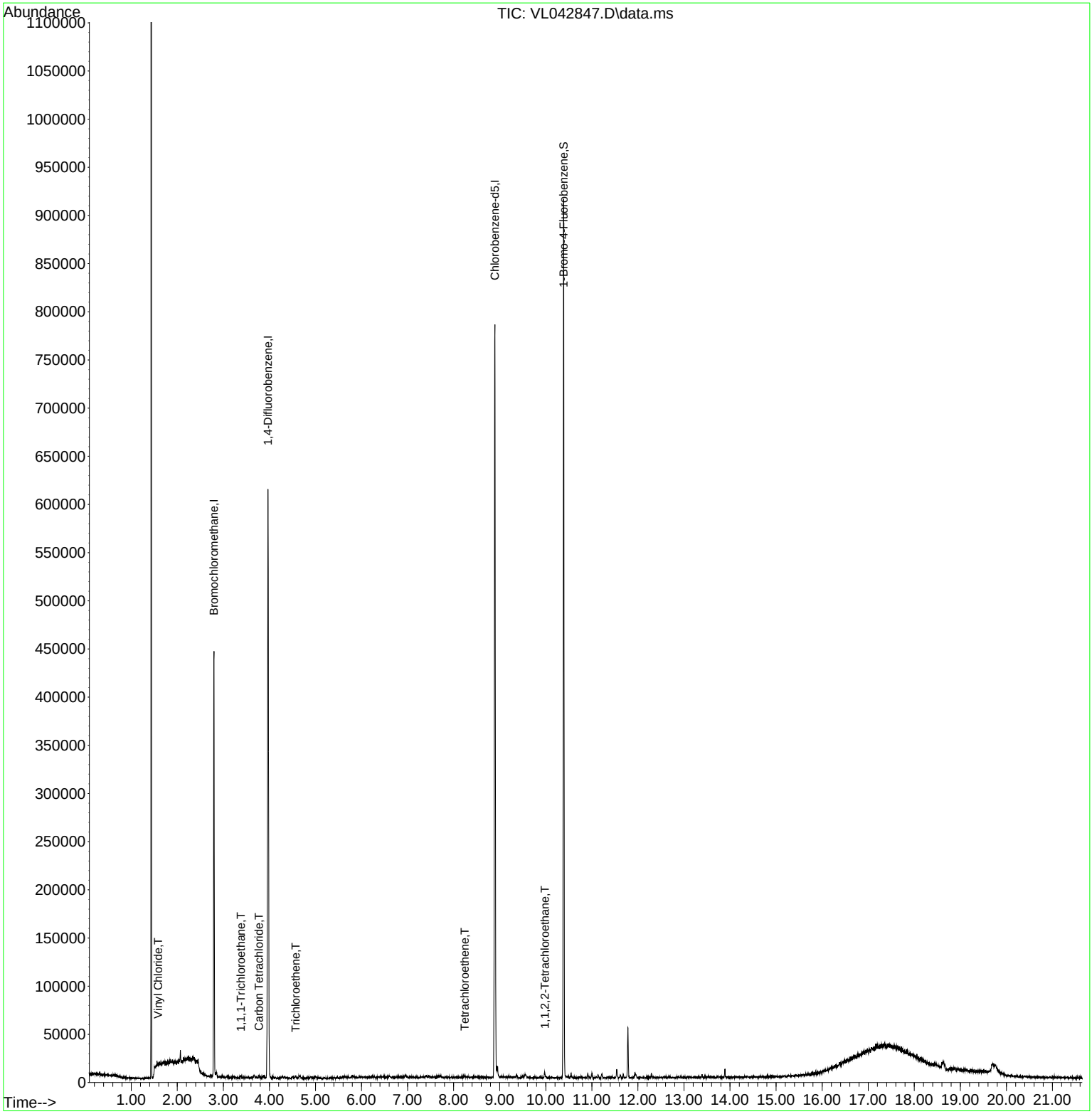
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Data File : VL042847.D
Acq On : 13 Aug 2025 11:30
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

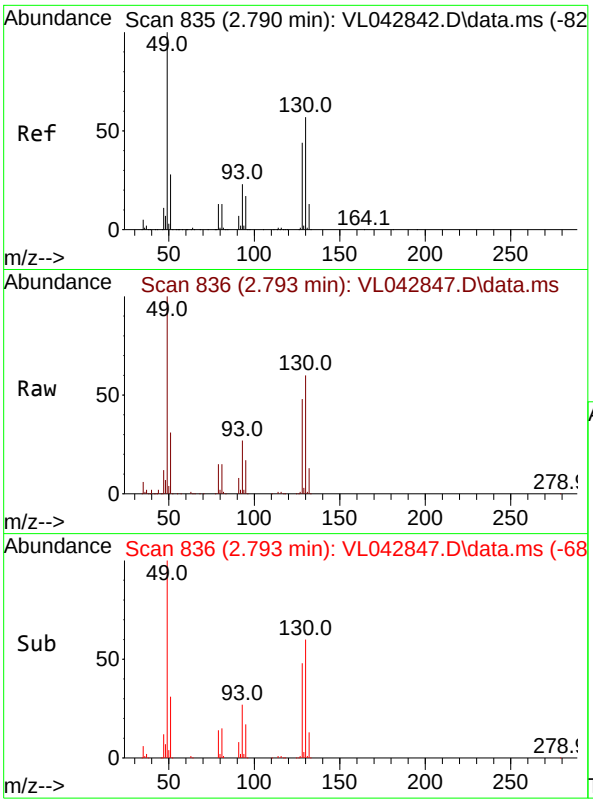
Quant Time: Aug 14 01:50:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Aug 14 01:44:36 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

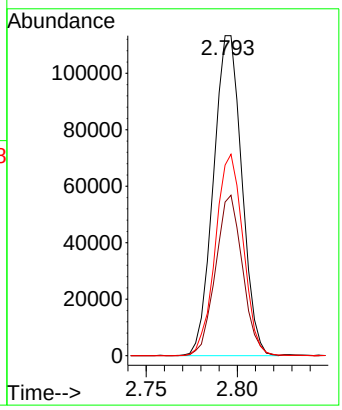




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Tgt Ion: 49 Resp: 12270

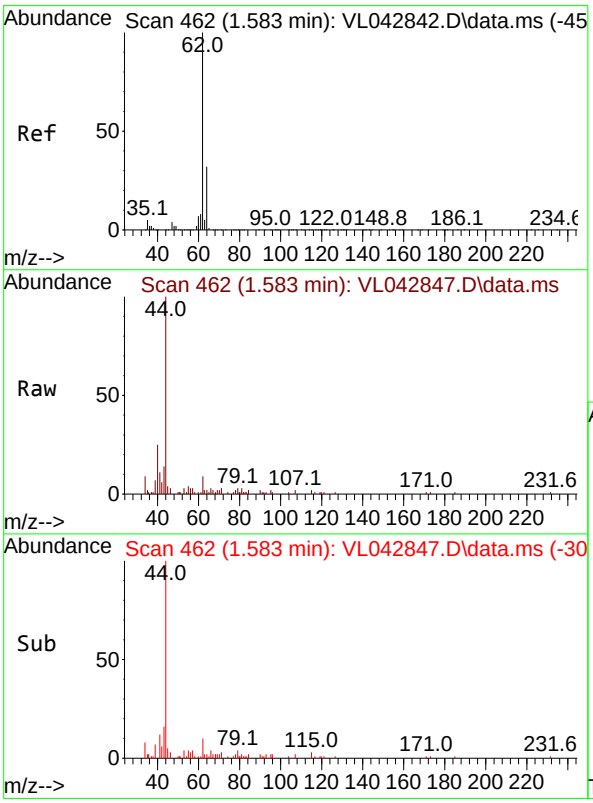
Ion	Ratio	Lower	Upper
49	100		
128	47.7	23.7	71.1
130	61.6	30.6	91.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

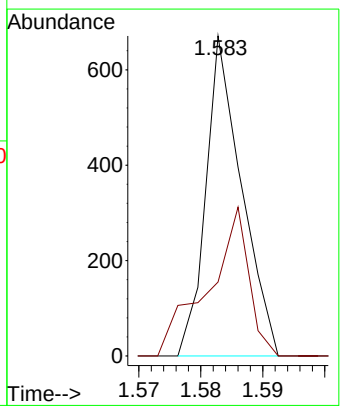
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

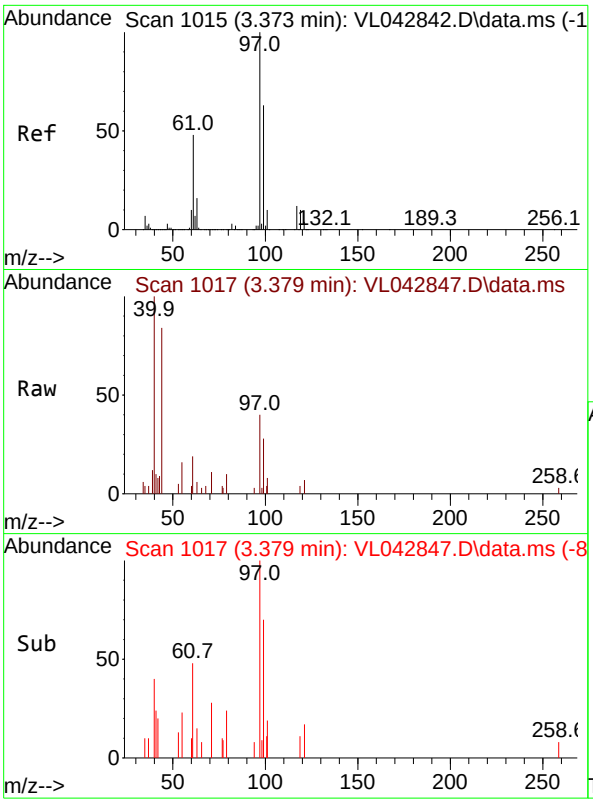


#5
Vinyl Chloride
Concen: 0.037 ppbv
RT: 1.583 min Scan# 462
Delta R.T. -0.000 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Tgt Ion: 62 Resp: 268

Ion	Ratio	Lower	Upper
62	100		
64	21.2	25.4	38.2#

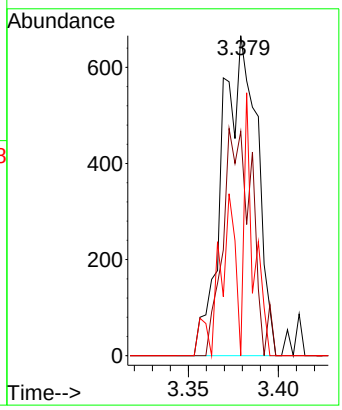




#32
1,1,1-Trichloroethane
Concen: 0.033 ppbv m
RT: 3.379 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Tgt Ion: 97 Resp: 90

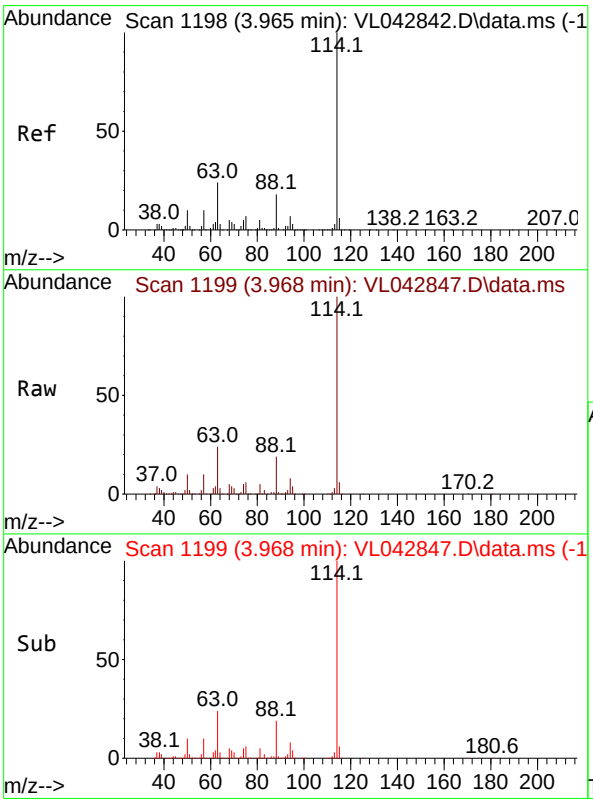
Ion	Ratio	Lower	Upper
97	100		
99	0.0	51.0	76.6
61	45.2	38.0	57.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

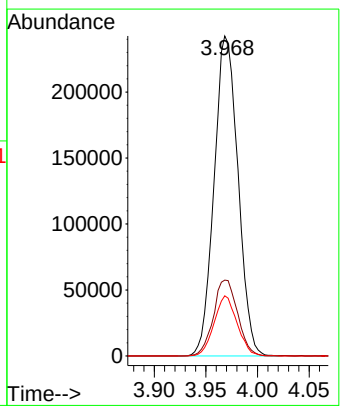
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

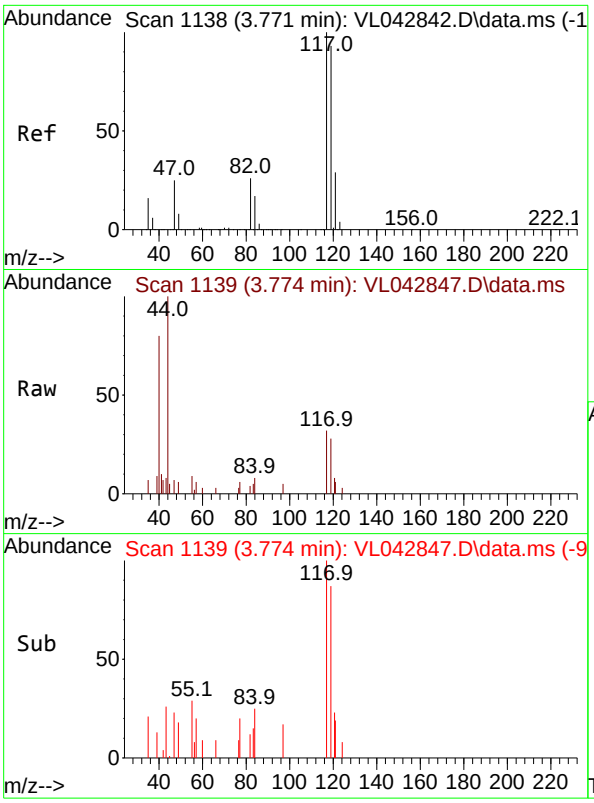


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.968 min Scan# 1199
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

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

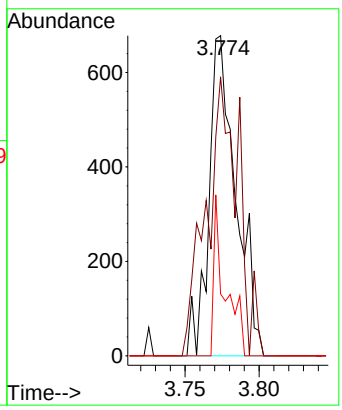




#35
Carbon Tetrachloride
Concen: 0.032 ppbv m
RT: 3.774 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Tgt Ion:117 Resp: 86

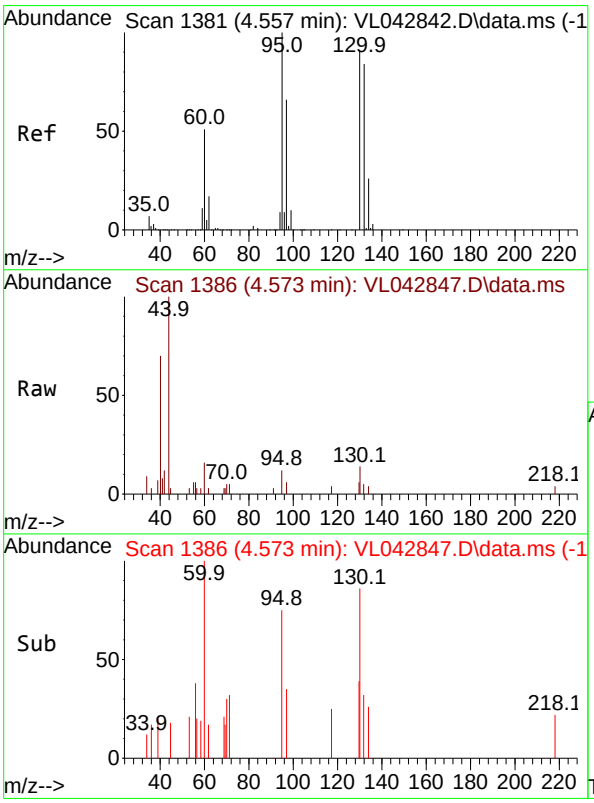
Ion	Ratio	Lower	Upper
117	100		
119	87.2	74.7	112.1
121	19.3	23.2	34.8#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

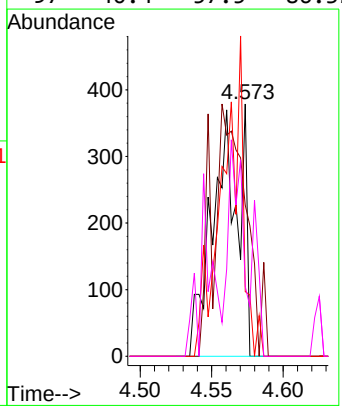
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

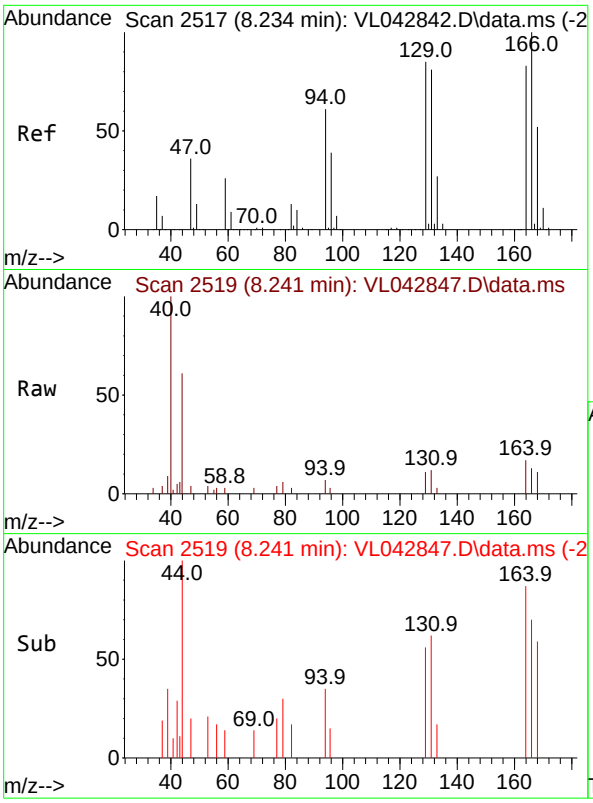


#38
Trichloroethene
Concen: 0.029 ppbv m
RT: 4.573 min Scan# 1386
Delta R.T. 0.016 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

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#

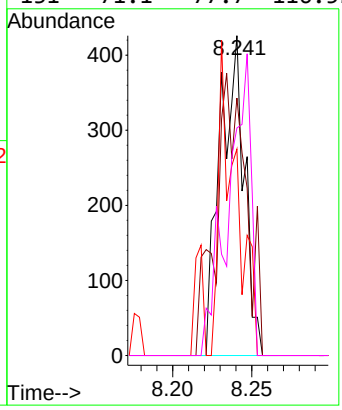




#52
Tetrachloroethene
Concen: 0.034 ppbv m
RT: 8.241 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Tgt Ion:164 Resp: 45

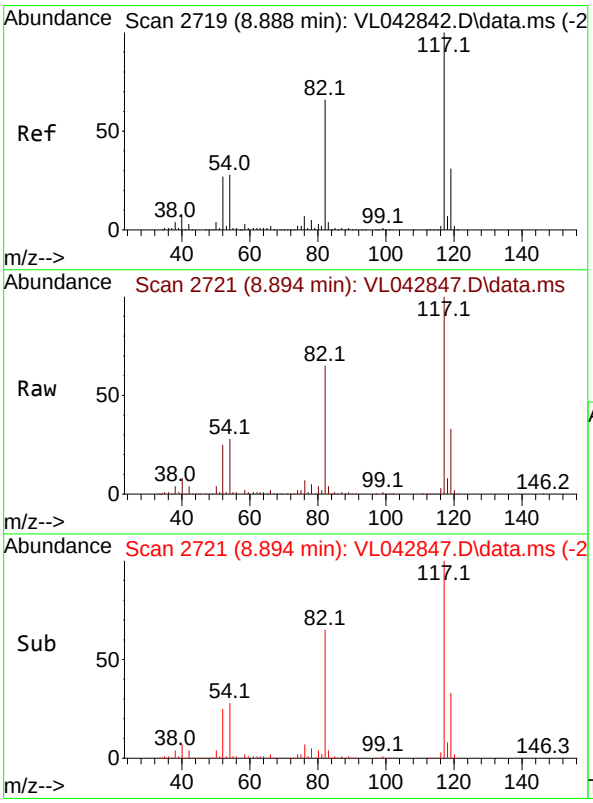
Ion	Ratio	Lower	Upper
164	100		
166	80.5	96.5	144.7#
129	64.6	81.8	122.6#
131	71.1	77.7	116.5#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

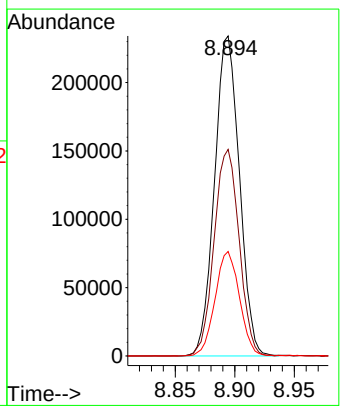
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

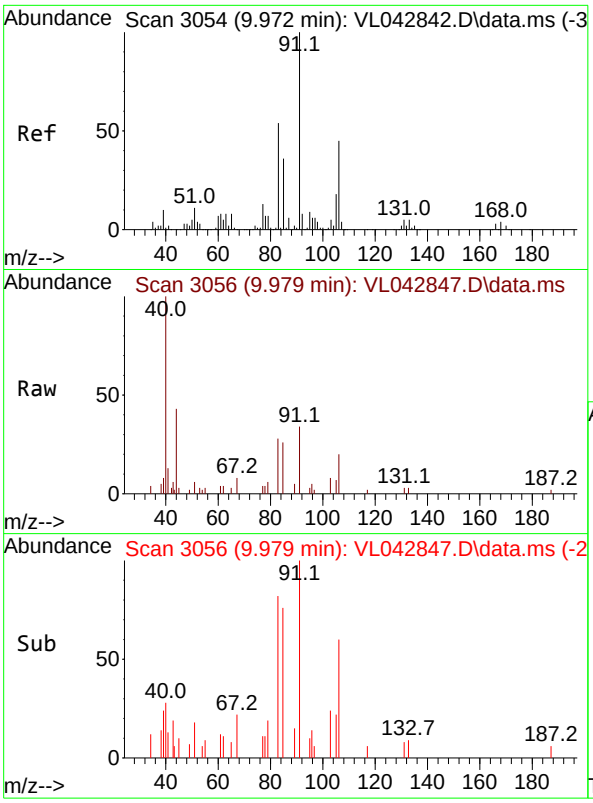


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.894 min Scan# 2721
Delta R.T. 0.006 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

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

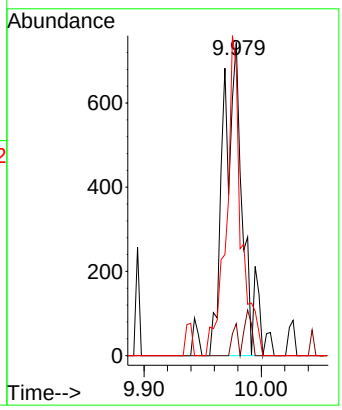




#63
1,1,2,2-Tetrachloroethane
Concen: 0.035 ppbv m
RT: 9.979 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Tgt Ion: 83 Resp: 89

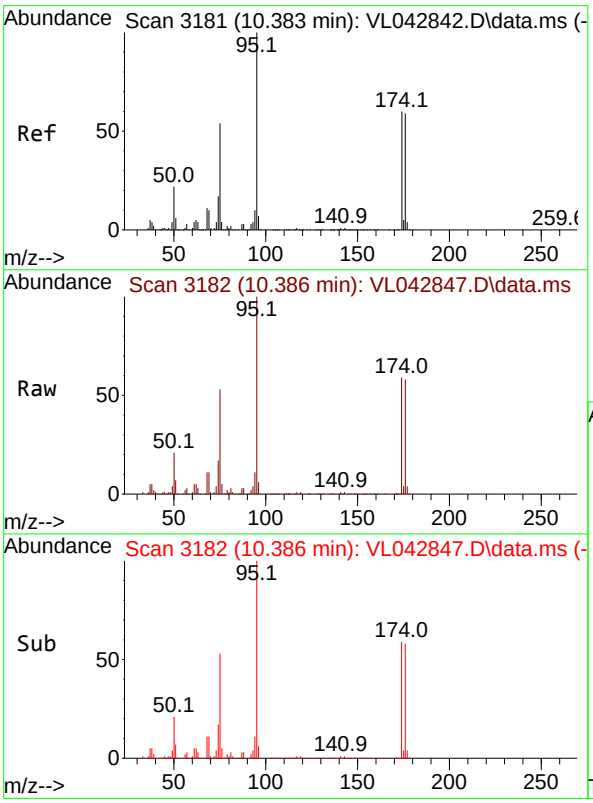
Ion	Ratio	Lower	Upper
83	100		
131	0.0	4.8	14.3
85	77.5	32.3	96.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

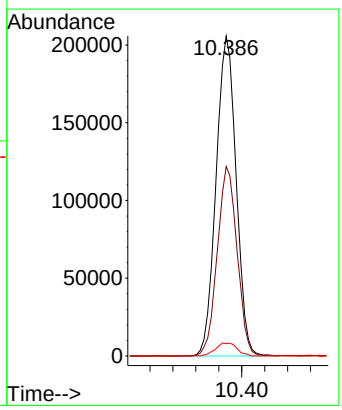
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#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



Quantitation Report (QT Reviewed)

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

Quant Time: Aug 14 01:51:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Thu Aug 14 01:44:36 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

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	2.794	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

Quantitation Report (QT Reviewed)

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

Quant Time: Aug 14 01:51:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Thu Aug 14 01:44:36 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

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)
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

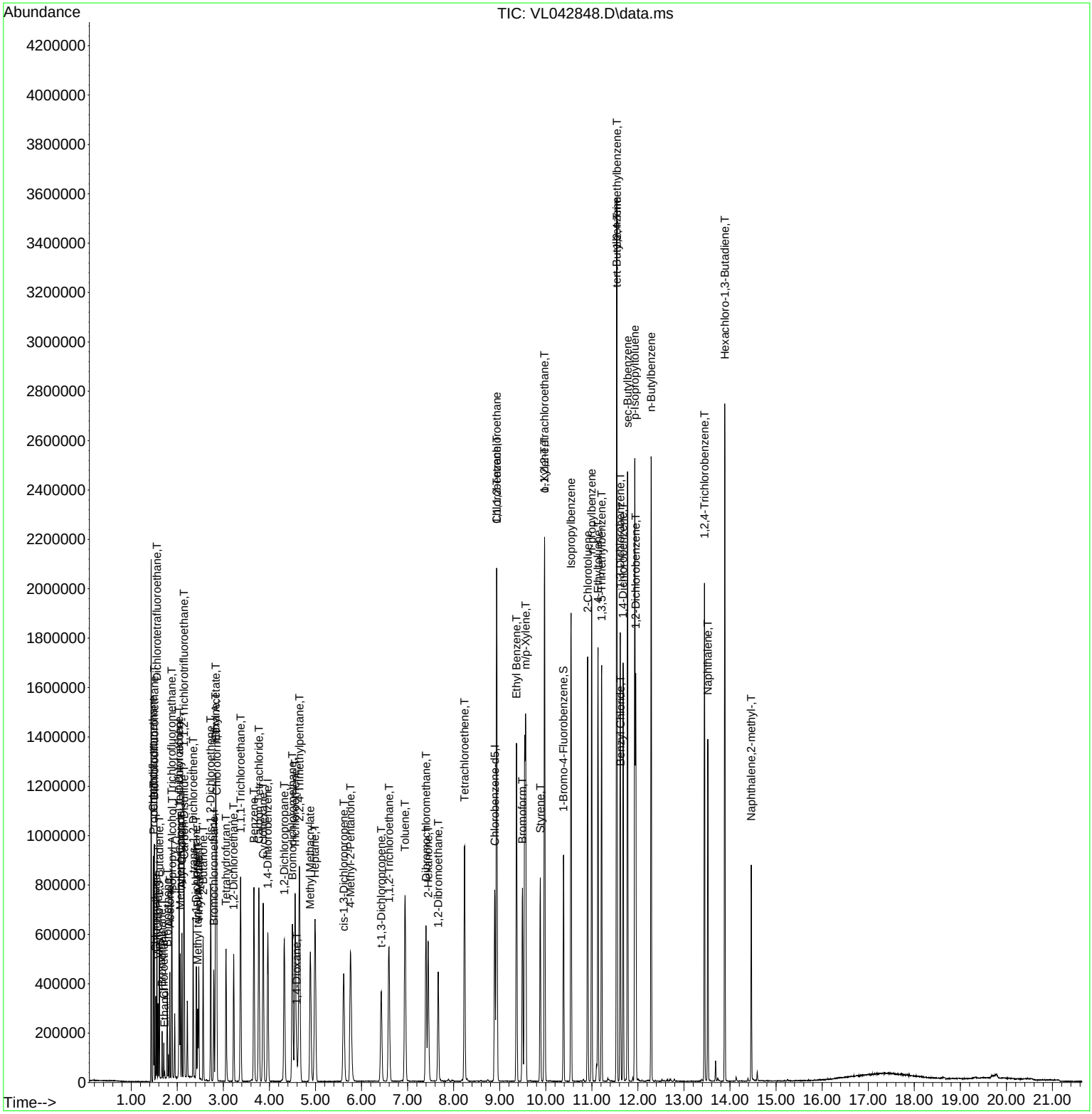
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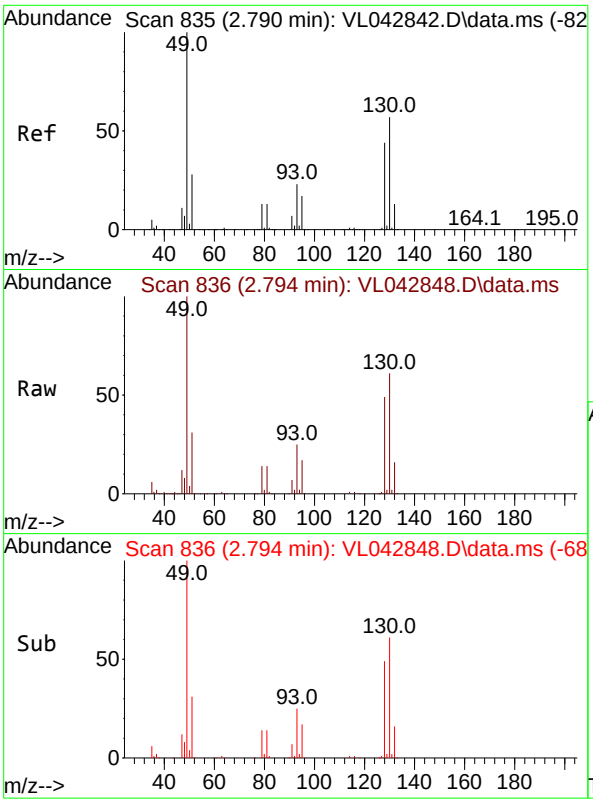
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
Data File : VL042848.D
Acq On : 13 Aug 2025 12:06
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 01:51:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Aug 14 01:44:36 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

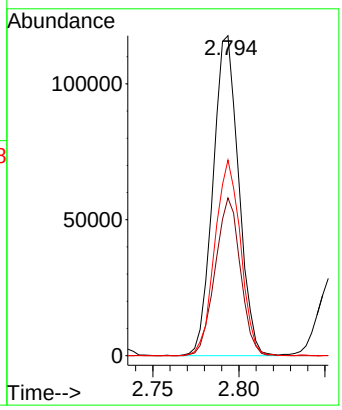




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.794 min Scan# 8
Delta R.T. 0.004 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 49 Resp: 12207

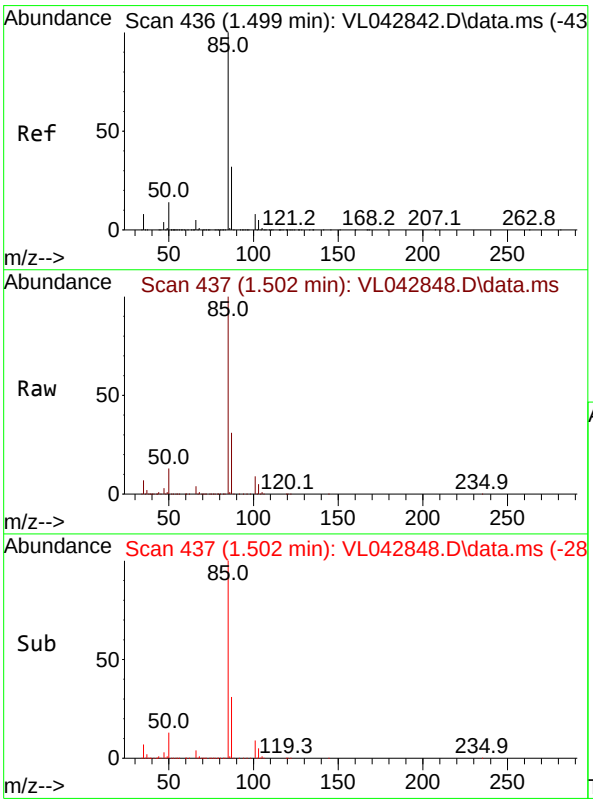
Ion	Ratio	Lower	Upper
49	100		
128	48.4	23.7	71.1
130	61.2	30.6	91.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

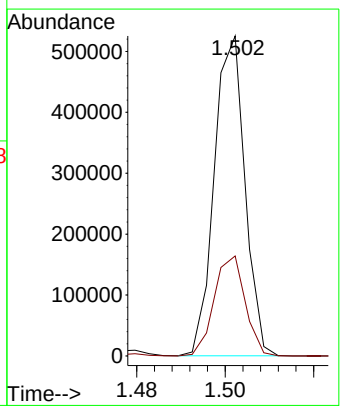
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

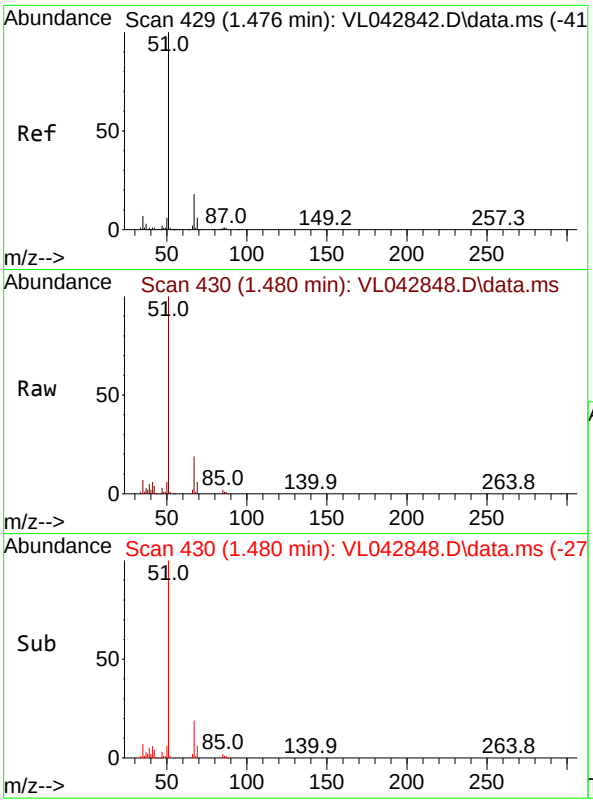


#2
Dichlorodifluoromethane
Concen: 14.150 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 85 Resp: 253151

Ion	Ratio	Lower	Upper
85	100		
87	31.2	25.3	37.9

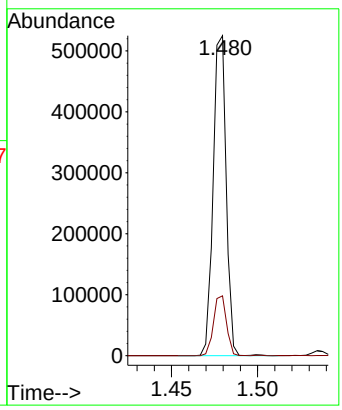




#3
Chlorodifluoromethane
Concen: 13.910 ppbv
RT: 1.480 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 51 Resp: 27535

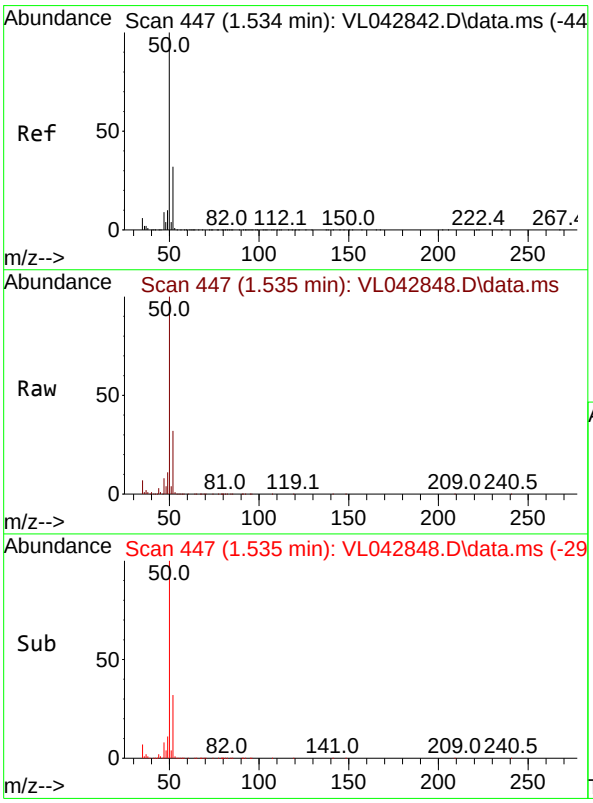
Ion	Ratio	Lower	Upper
51	100		
67	18.9	14.9	22.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

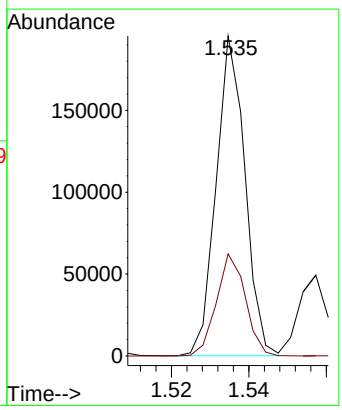
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

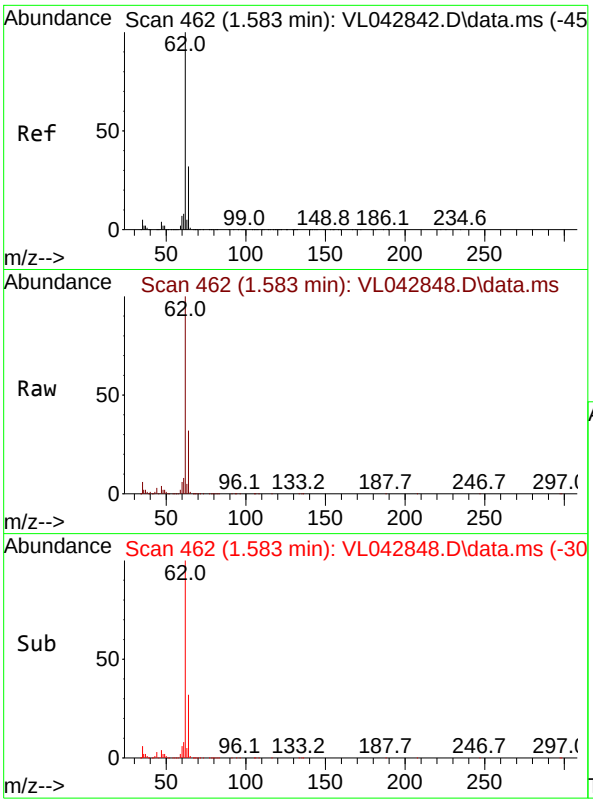


#4
Chloromethane
Concen: 13.986 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 50 Resp: 100974

Ion	Ratio	Lower	Upper
50	100		
52	31.9	25.9	38.9

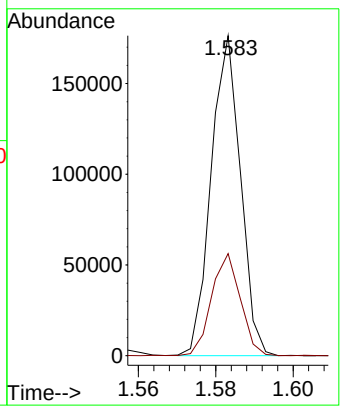




#5
Vinyl Chloride
Concen: 13.053 ppbv
RT: 1.583 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 62 Resp: 9281

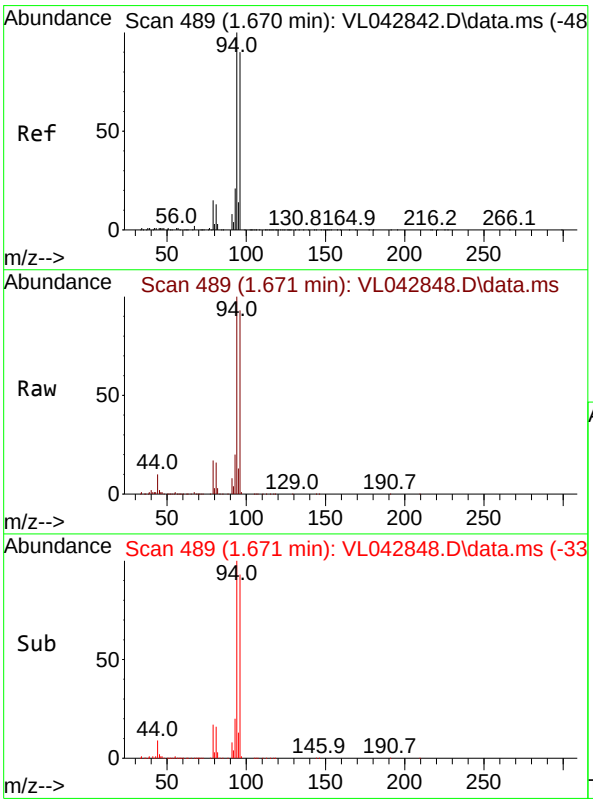
Ion	Ratio	Lower	Upper
62	100		
64	31.8	25.4	38.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

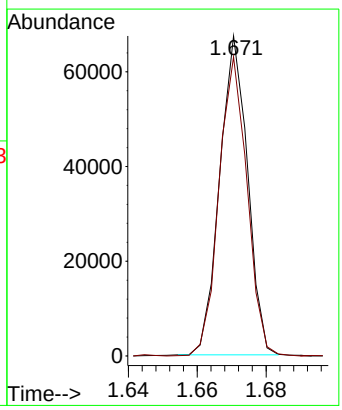
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

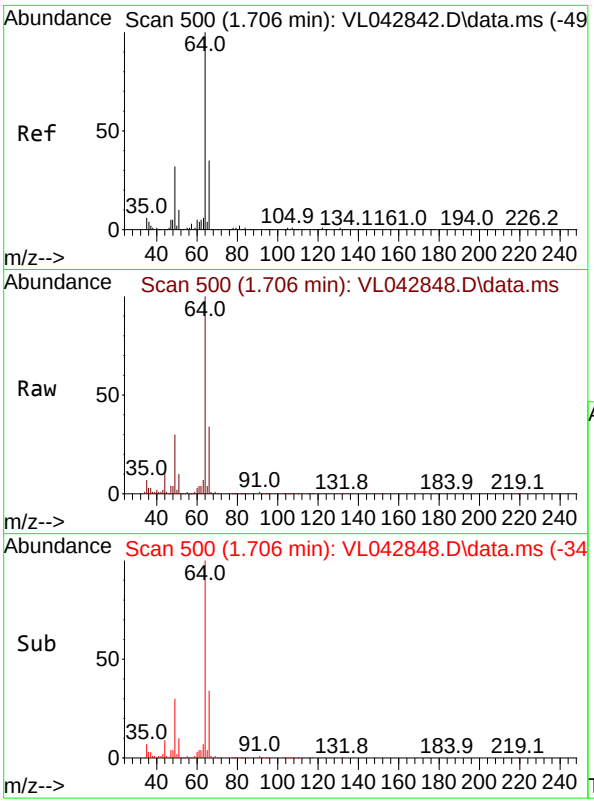


#6
Bromomethane
Concen: 13.275 ppbv
RT: 1.671 min Scan# 489
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 94 Resp: 37740

Ion	Ratio	Lower	Upper
94	100		
96	93.7	72.1	108.1

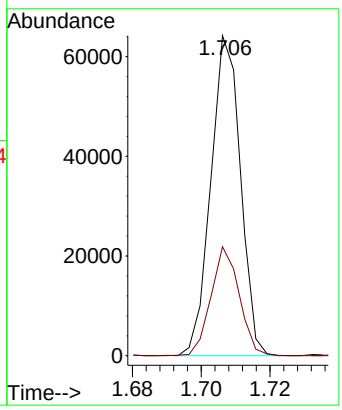




#7
Chloroethane
Concen: 13.828 ppbv
RT: 1.706 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 64 Resp: 3839

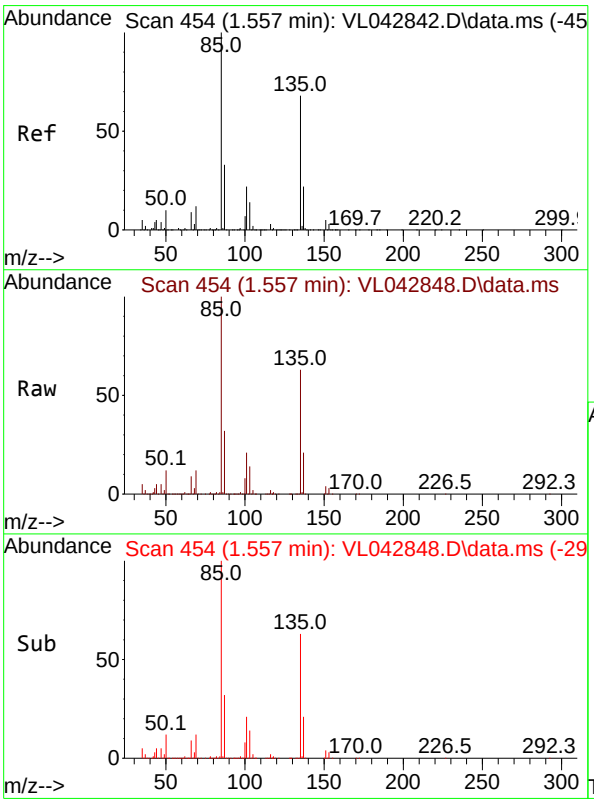
Ion	Ratio	Lower	Upper
64	100		
66	34.1	28.6	42.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

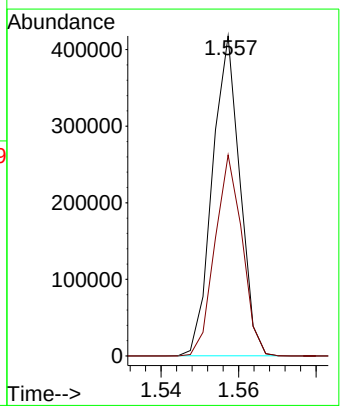
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

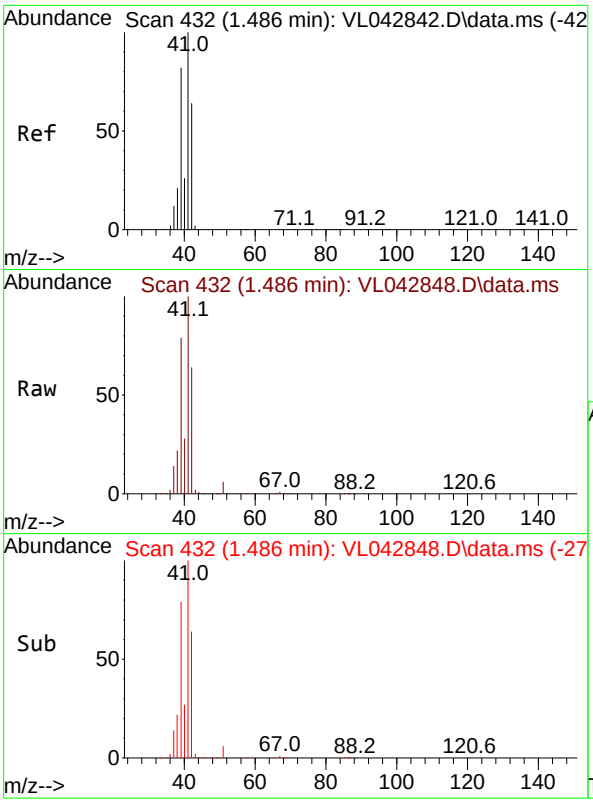


#8
Dichlorotetrafluoroethane
Concen: 14.029 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 85 Resp: 205386

Ion	Ratio	Lower	Upper
85	100		
135	62.7	51.2	76.8

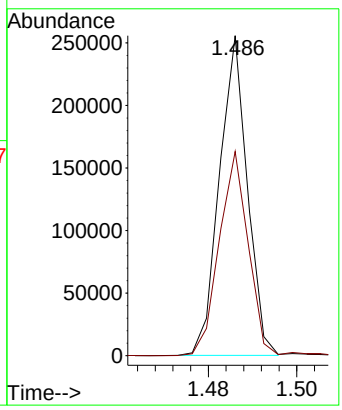




#9
Propene
Concen: 13.094 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 41 Resp: 11182

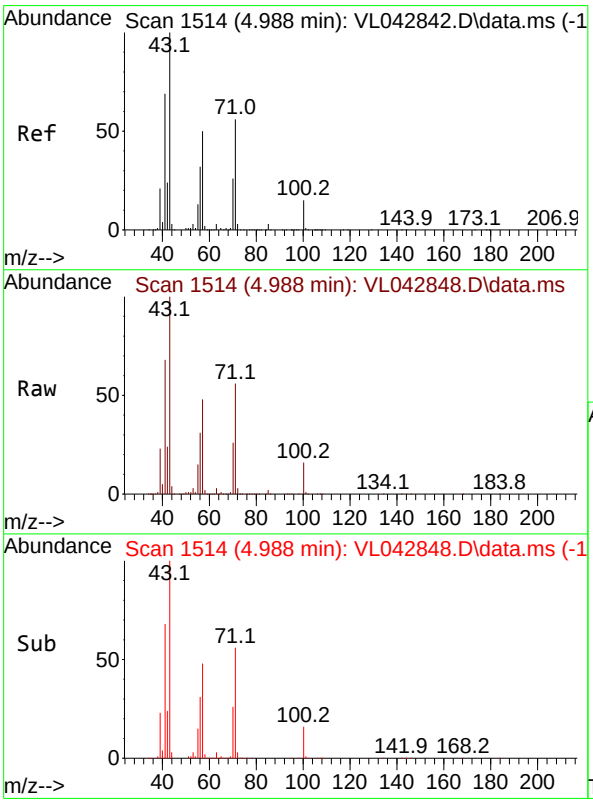
Ion	Ratio	Lower	Upper
41	100		
42	67.0	53.0	79.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

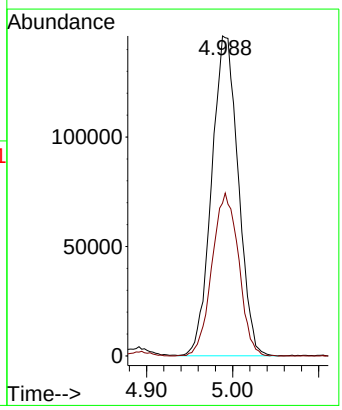
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

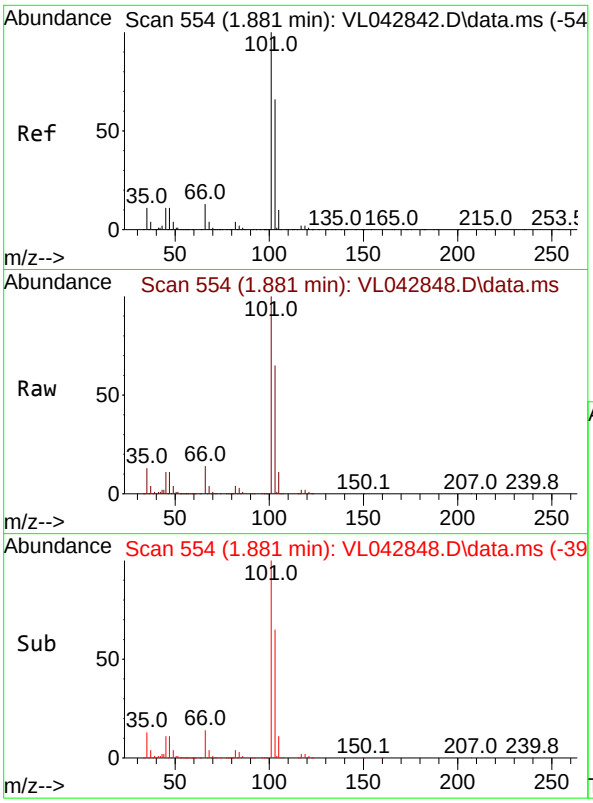


#10
Heptane
Concen: 13.742 ppbv
RT: 4.988 min Scan# 1514
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 43 Resp: 313734

Ion	Ratio	Lower	Upper
43	100		
57	51.0	41.4	62.0

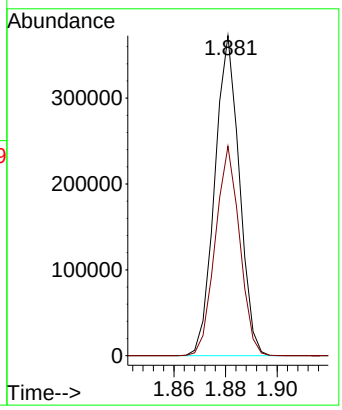




#11
Trichlorofluoromethane
Concen: 13.957 ppbv
RT: 1.881 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion:101 Resp: 24635

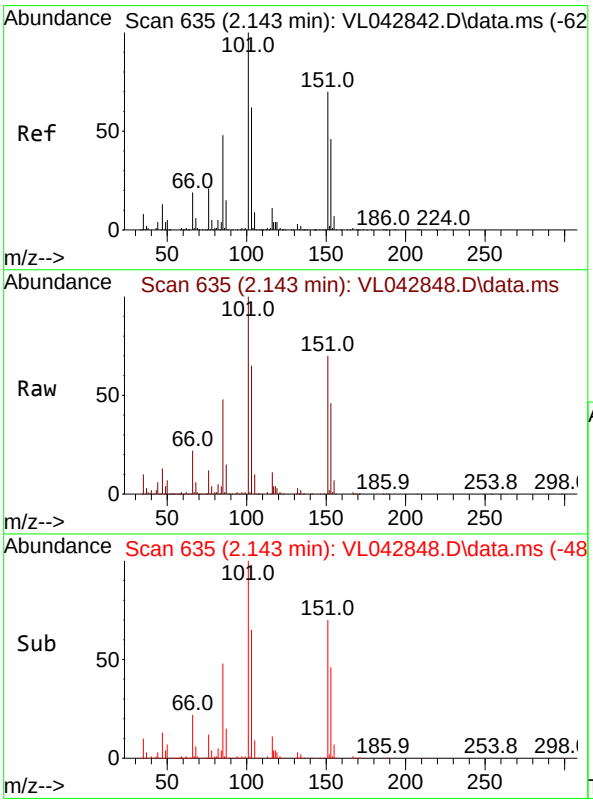
Ion	Ratio	Lower	Upper
101	100		
103	65.5	52.5	78.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED

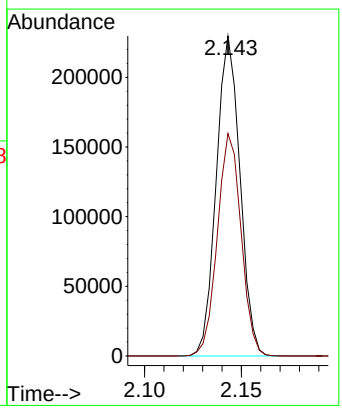
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

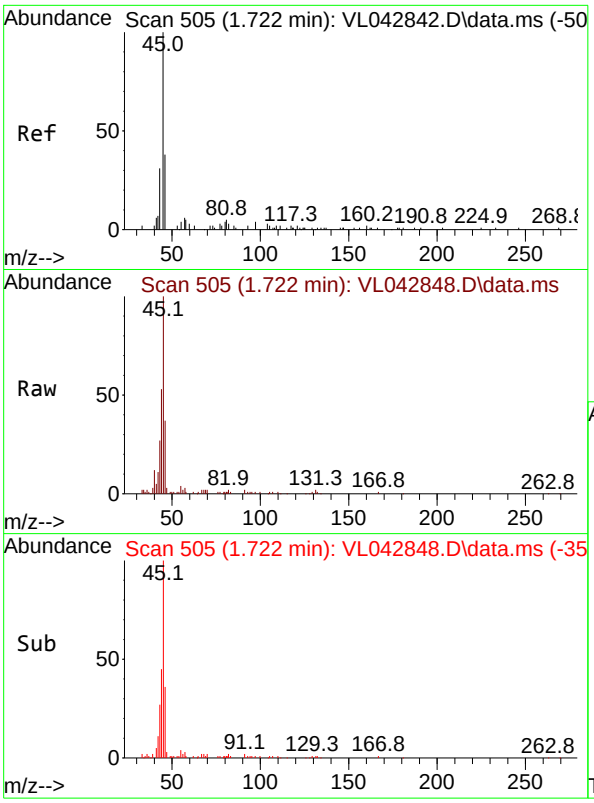


#12
1,1,2-Trichlorotrifluoroethane
Concen: 13.877 ppbv
RT: 2.143 min Scan# 635
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion:101 Resp: 195231

Ion	Ratio	Lower	Upper
101	100		
151	69.7	56.4	84.6

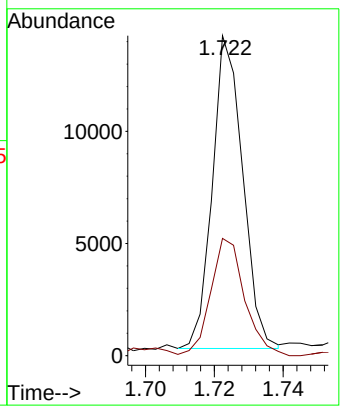




#13
Ethanol
Concen: 10.086 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 45 Resp: 853

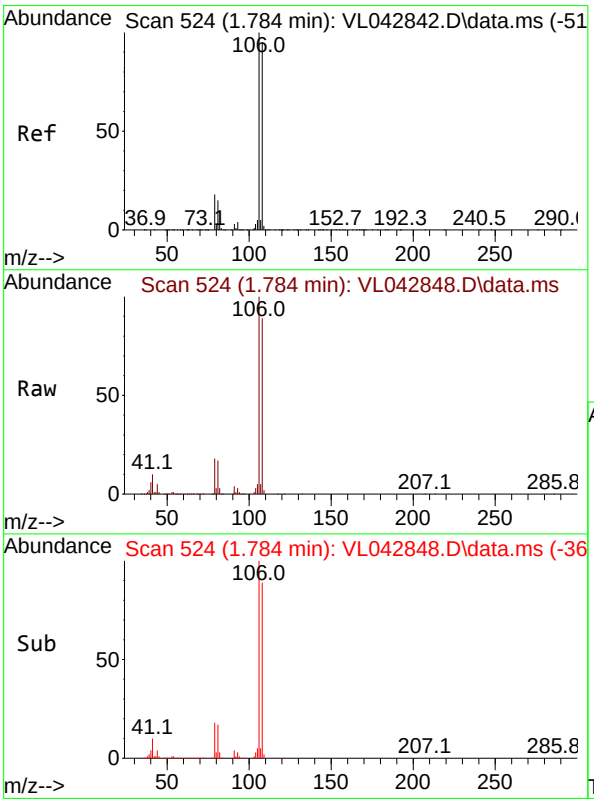
Ion	Ratio	Lower	Upper
45	100		
46	42.3	17.5	69.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

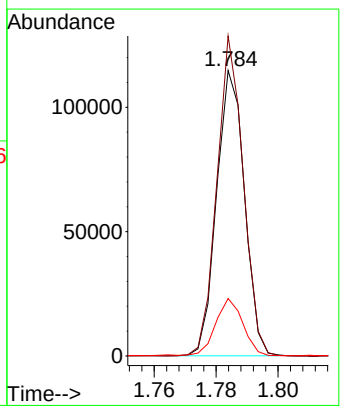
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

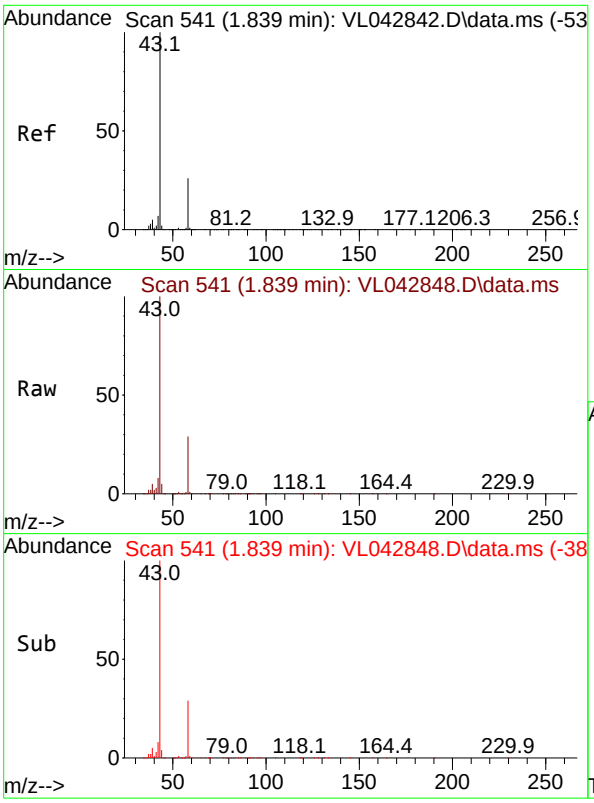


#14
Bromoethene
Concen: 14.072 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

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

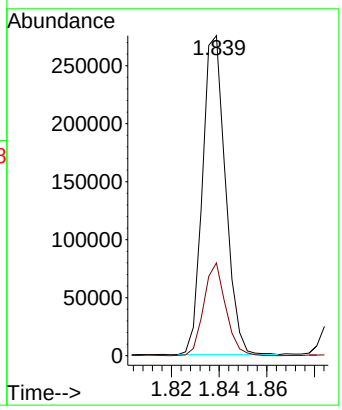




#15
Acetone
Concen: 11.402 ppbv
RT: 1.839 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 43 Resp: 18411

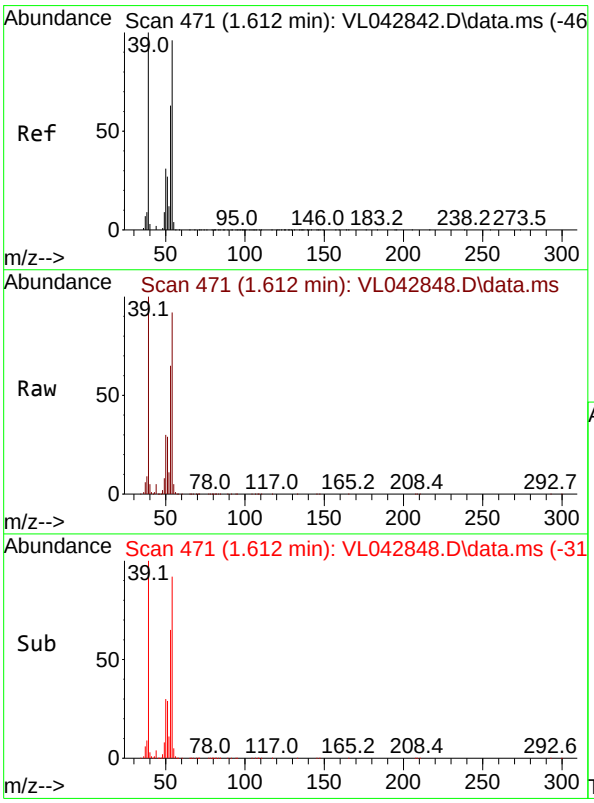
Ion	Ratio	Lower	Upper
43	100		
58	27.9	22.4	33.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

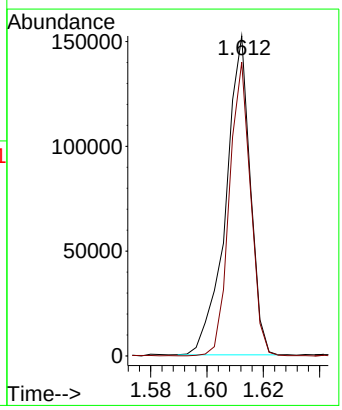
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

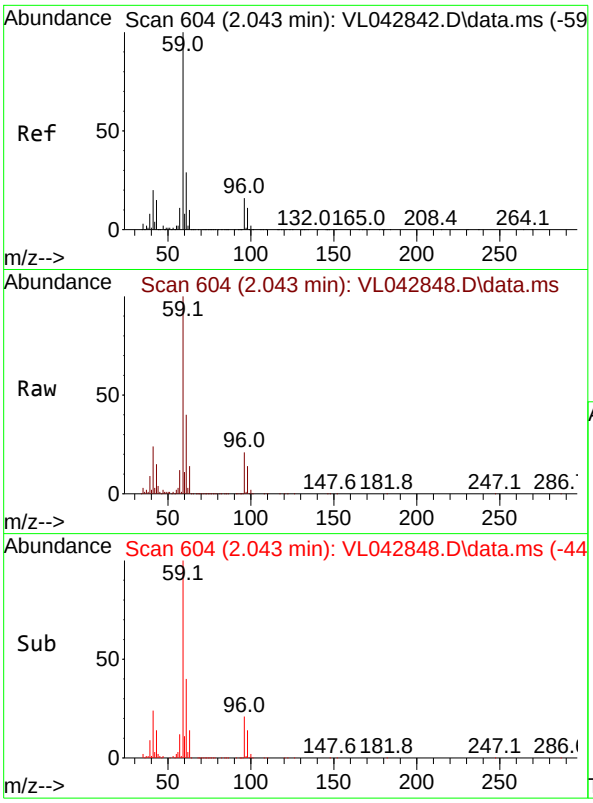


#16
1,3-Butadiene
Concen: 12.577 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 39 Resp: 92068

Ion	Ratio	Lower	Upper
39	100		
54	79.7	63.6	95.4

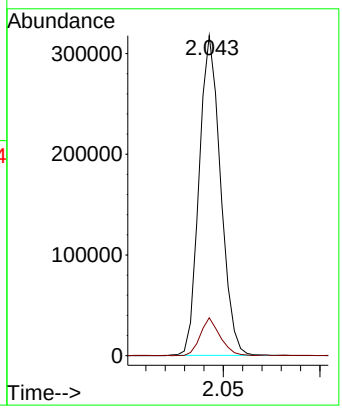




#17
tert-Butyl alcohol
Concen: 12.765 ppbv
RT: 2.043 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 59 Resp: 24444

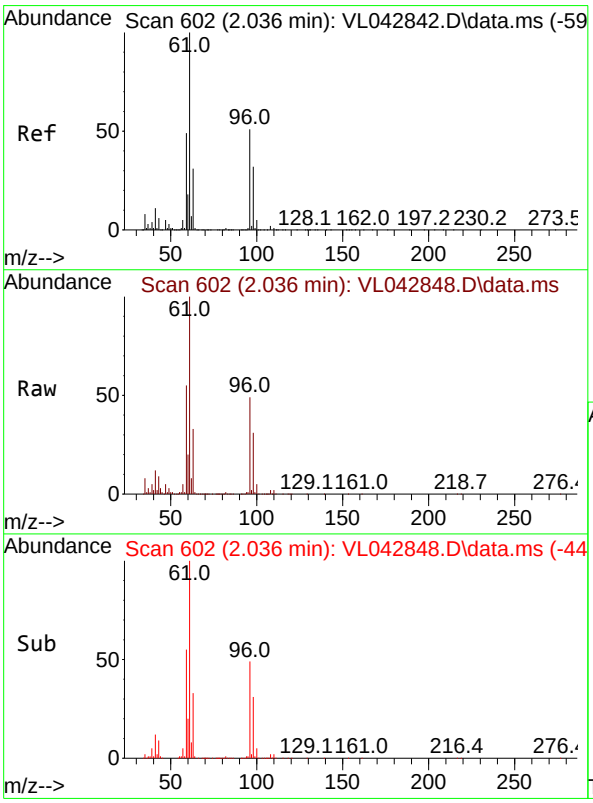
Ion	Ratio	Lower	Upper
59	100		
57	11.3	9.0	13.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

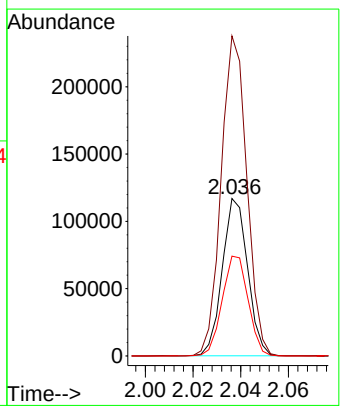
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

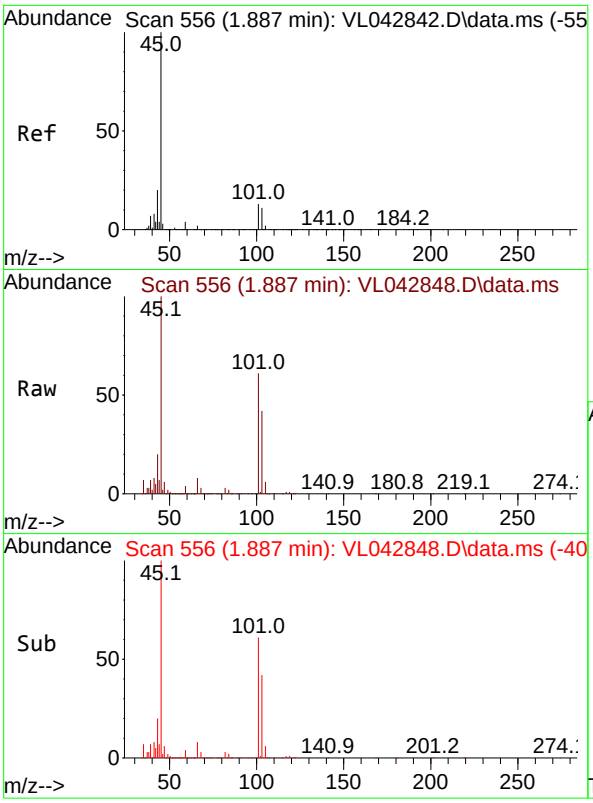


#18
1,1-Dichloroethene
Concen: 13.961 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

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

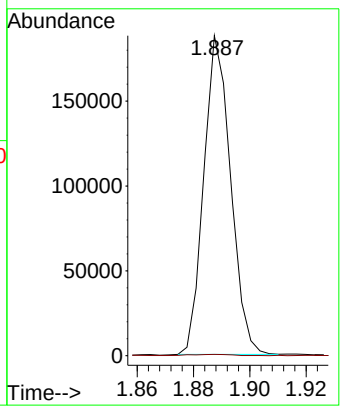




#19
Isopropyl Alcohol
Concen: 12.885 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 45 Resp: 12427

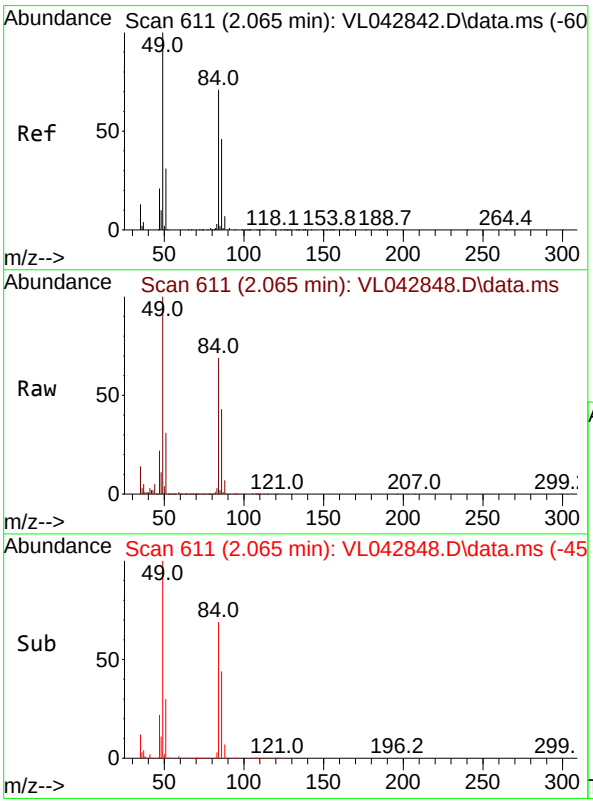
Ion	Ratio	Lower	Upper
45	100		
58	41.3	32.7	49.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

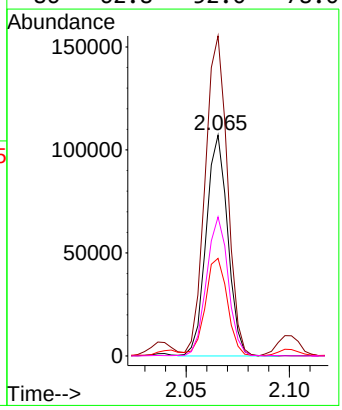
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

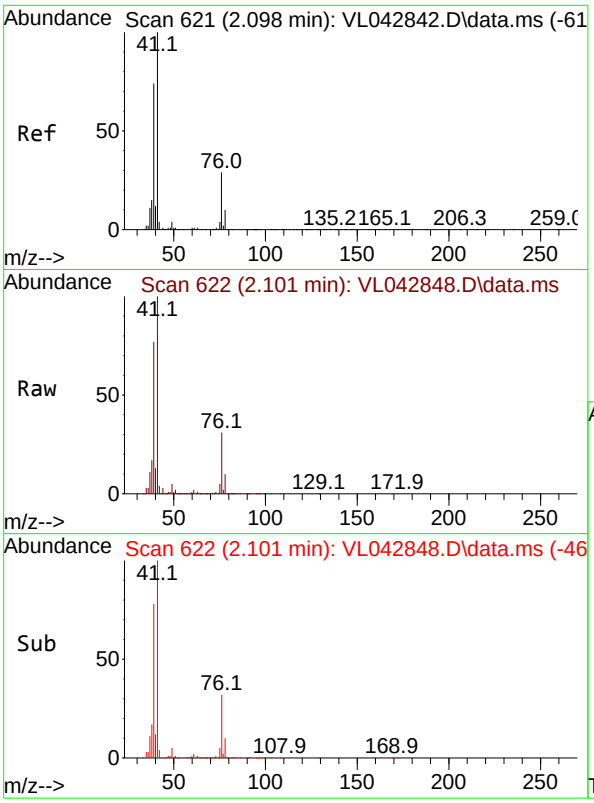


#20
Methylene Chloride
Concen: 11.494 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

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

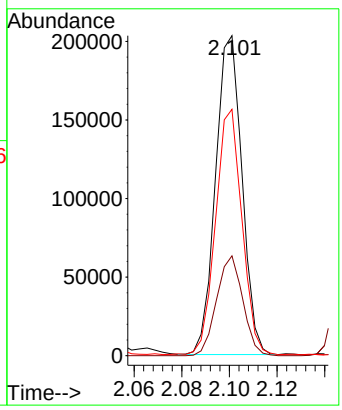




#21
Allyl Chloride
Concen: 13.703 ppbv
RT: 2.101 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 41 Resp: 15631

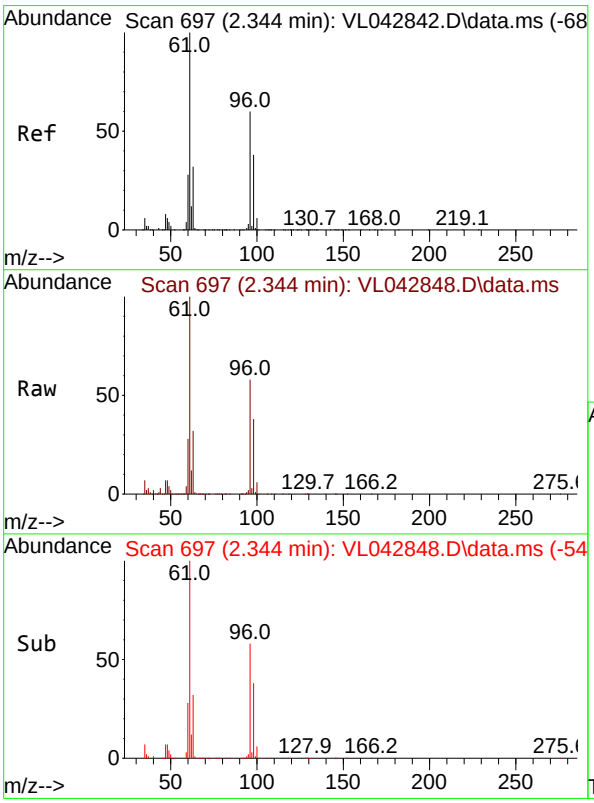
Ion	Ratio	Lower	Upper
41	100		
76	30.9	23.9	35.9
39	76.9	57.8	86.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

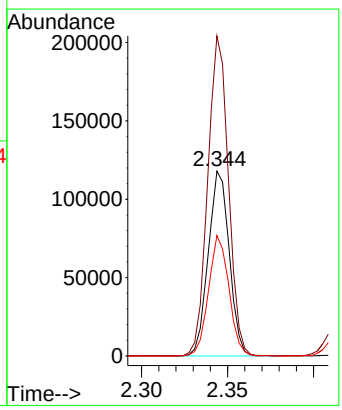
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

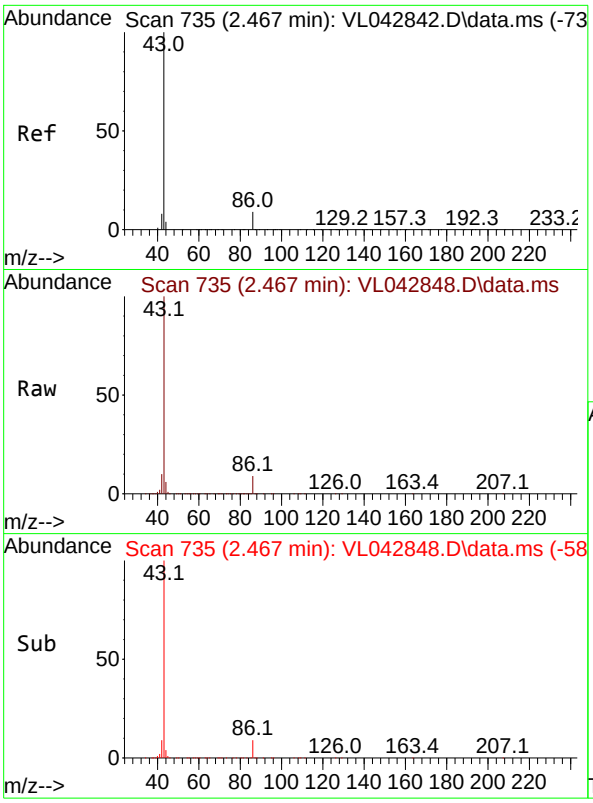


#22
trans-1,2-Dichloroethene
Concen: 14.465 ppbv
RT: 2.344 min Scan# 697
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

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

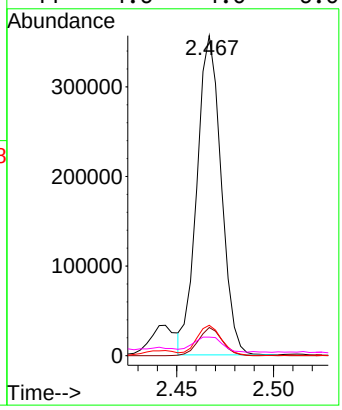




#23
Vinyl Acetate
Concen: 14.557 ppbv
RT: 2.467 min Scan# 7
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 43 Resp: 30923

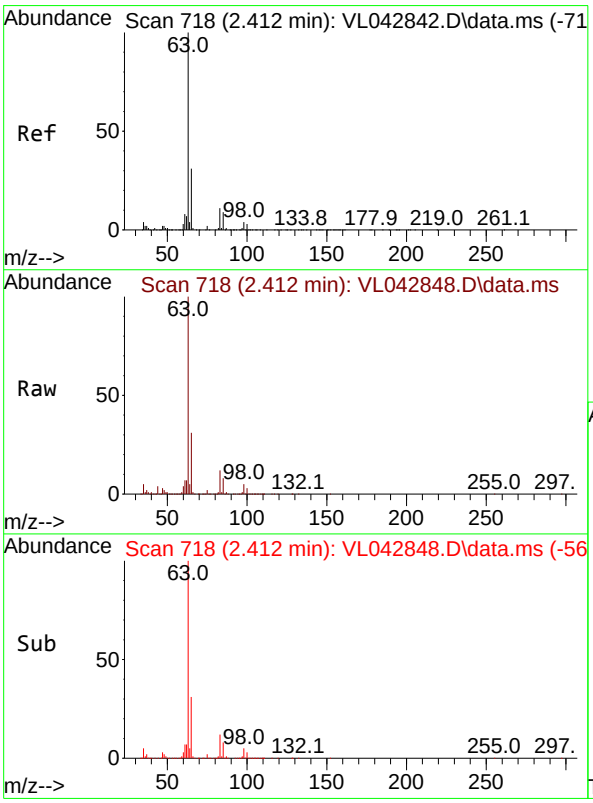
Ion	Ratio	Lower	Upper
43	100		
86	8.8	6.6	9.8
42	9.4	7.0	10.6
44	4.6	4.0	6.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

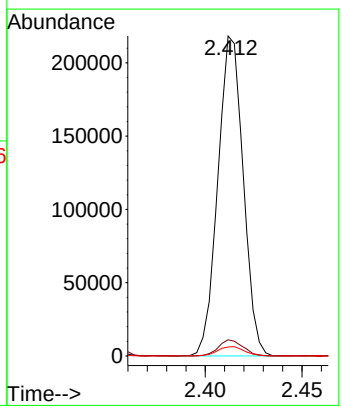
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

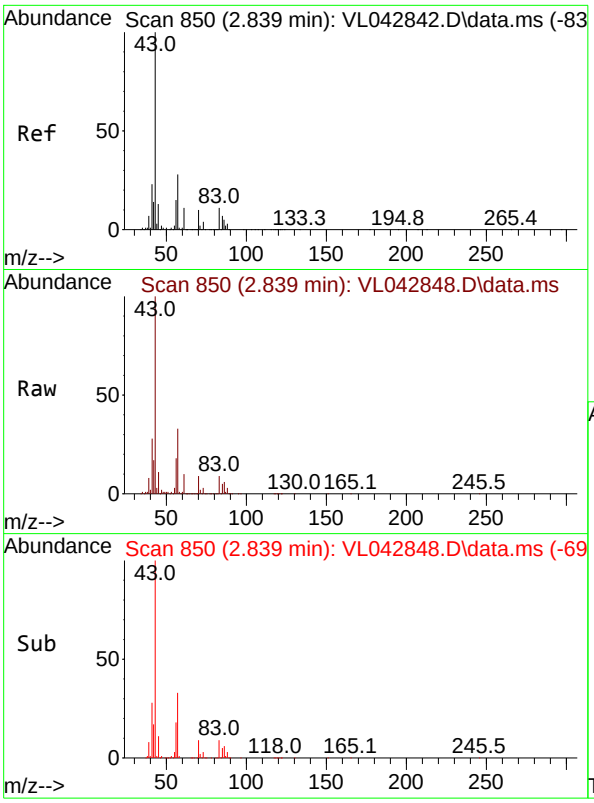


#24
1,1-Dichloroethane
Concen: 13.944 ppbv
RT: 2.412 min Scan# 718
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

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

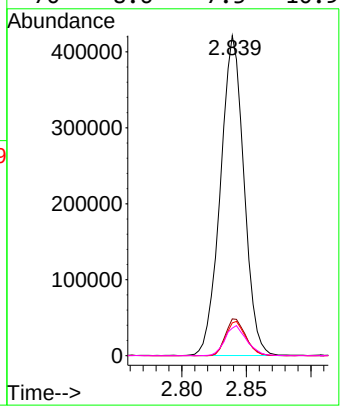




#25
Ethyl Acetate
Concen: 13.653 ppbv
RT: 2.839 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 43 Resp: 53360

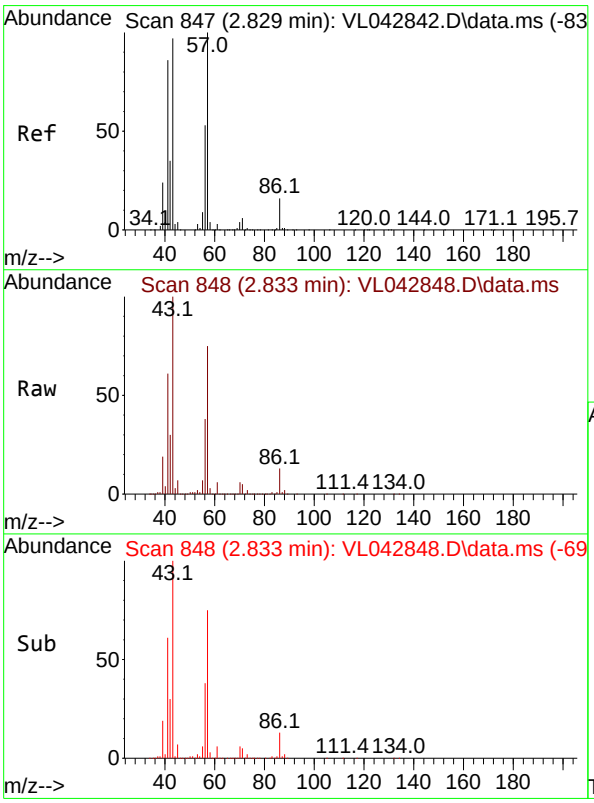
Ion	Ratio	Lower	Upper
43	100		
45	10.0	8.1	12.1
61	9.2	7.4	11.2
70	8.6	7.3	10.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

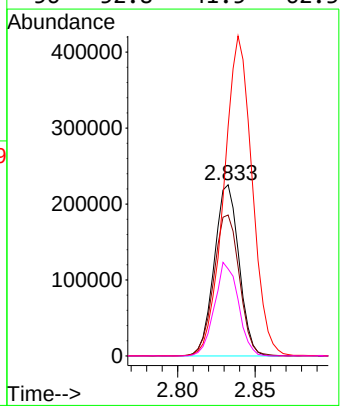
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

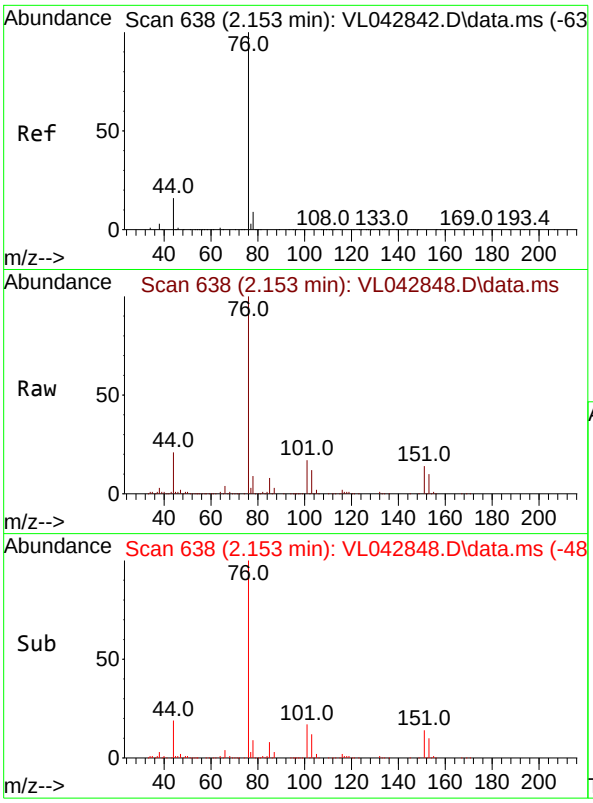


#26
Hexane
Concen: 13.869 ppbv
RT: 2.833 min Scan# 848
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

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

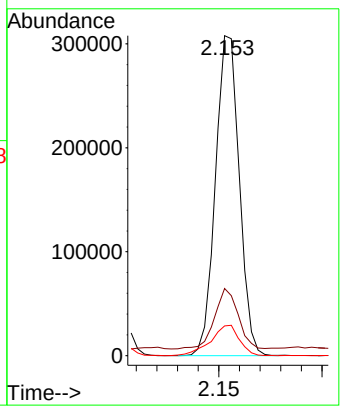




#27
Carbon Disulfide
Concen: 14.062 ppbv
RT: 2.153 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 76 Resp: 24686

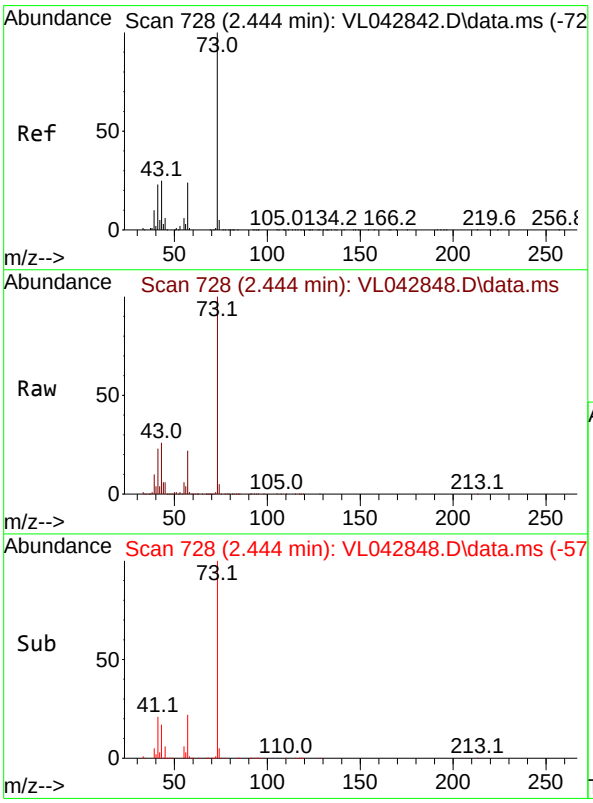
Ion	Ratio	Lower	Upper
76	100		
44	19.7	15.9	23.9
78	11.4	9.5	14.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

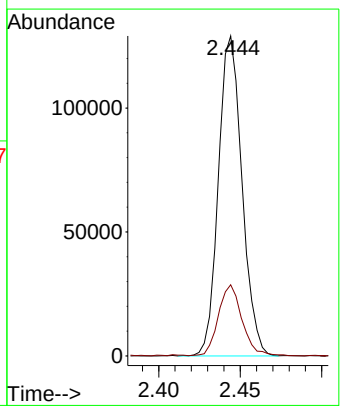
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

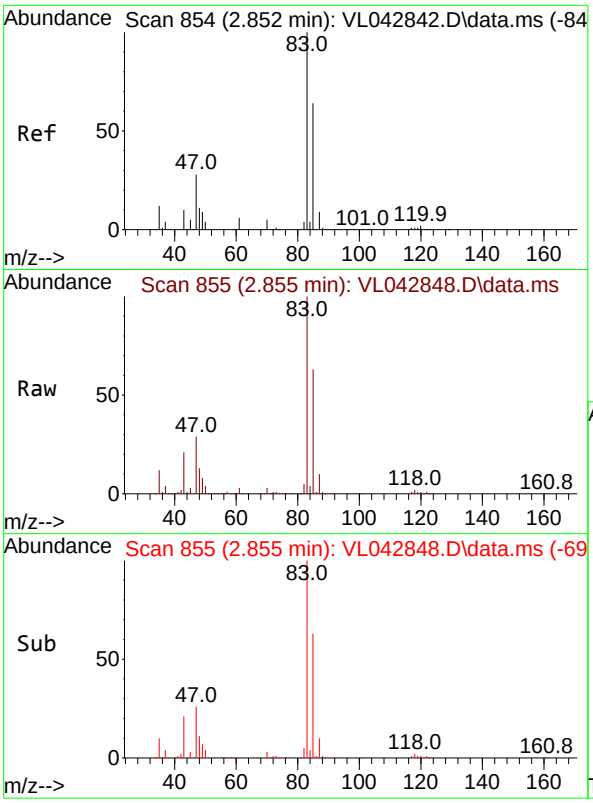


#28
Methyl tert-Butyl Ether
Concen: 14.131 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 73 Resp: 129978

Ion	Ratio	Lower	Upper
73	100		
57	22.5	21.6	32.4

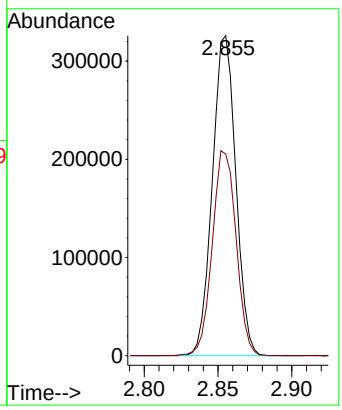




#29
Chloroform
Concen: 14.003 ppbv
RT: 2.855 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 83 Resp: 36066

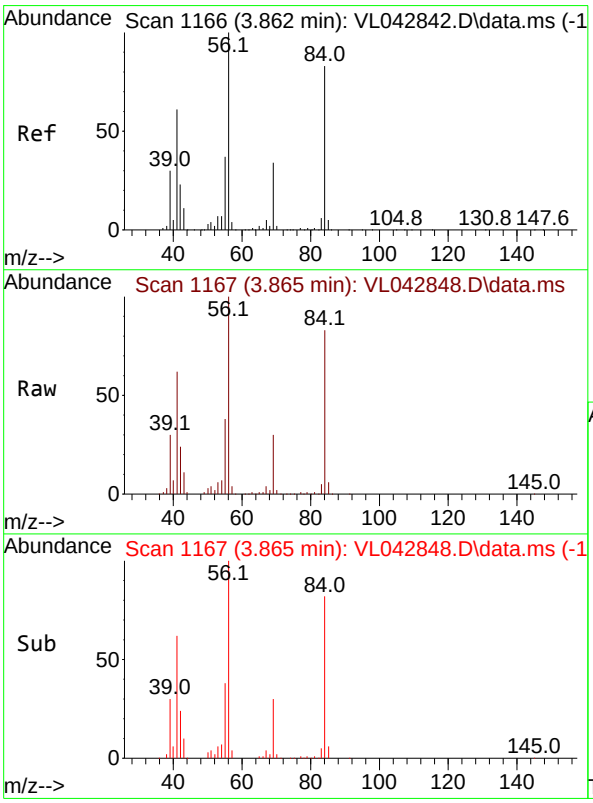
Ion	Ratio	Lower	Upper
83	100		
85	63.0	51.1	76.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

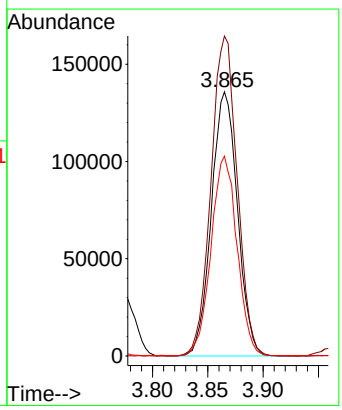
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

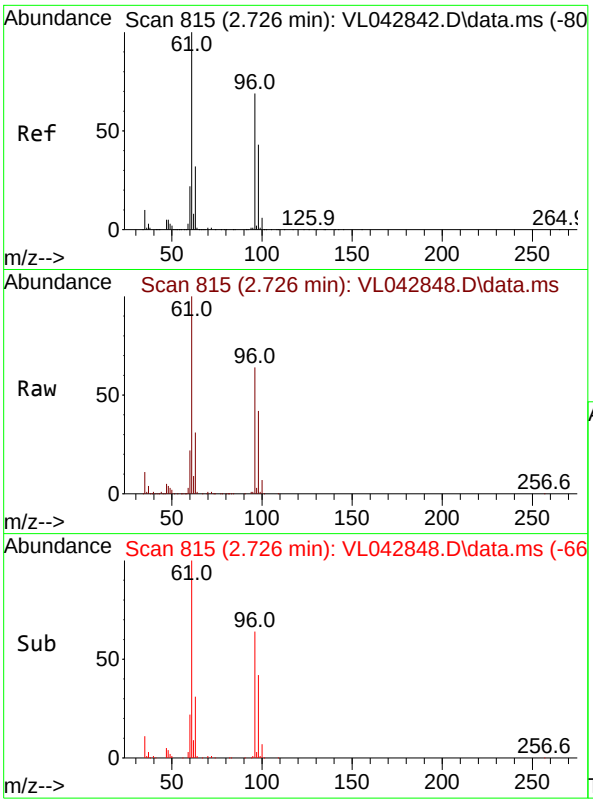


#30
Cyclohexane
Concen: 14.088 ppbv
RT: 3.865 min Scan# 1167
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

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

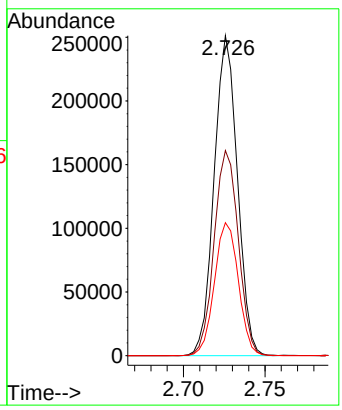




#31
cis-1,2-Dichloroethene
Concen: 13.821 ppbv
RT: 2.726 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 61 Resp: 24937

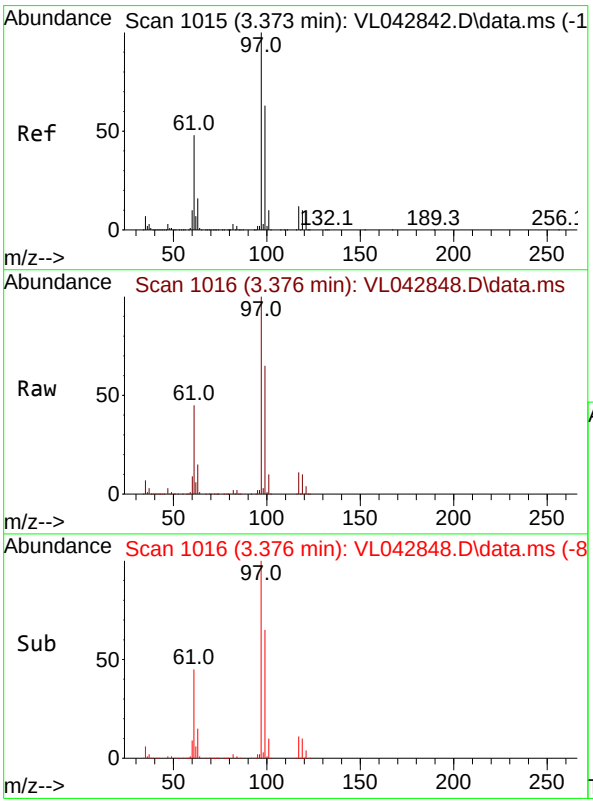
Ion	Ratio	Lower	Upper
61	100		
96	64.1	55.0	82.6
98	41.6	34.3	51.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

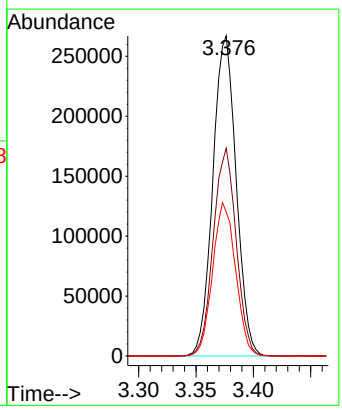
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

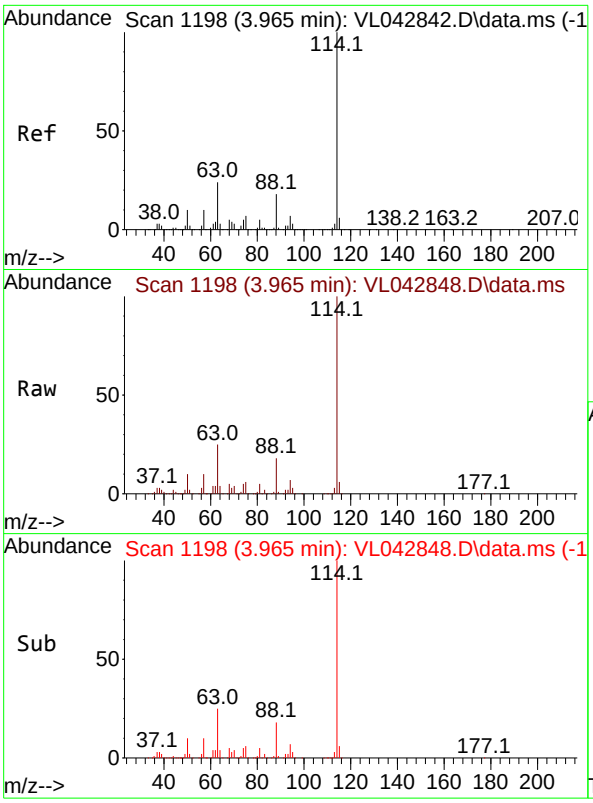


#32
1,1,1-Trichloroethane
Concen: 13.851 ppbv
RT: 3.376 min Scan# 1016
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

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

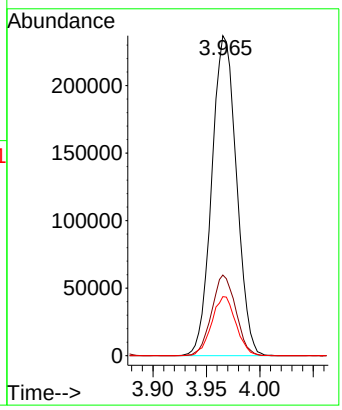




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion:114 Resp: 38087

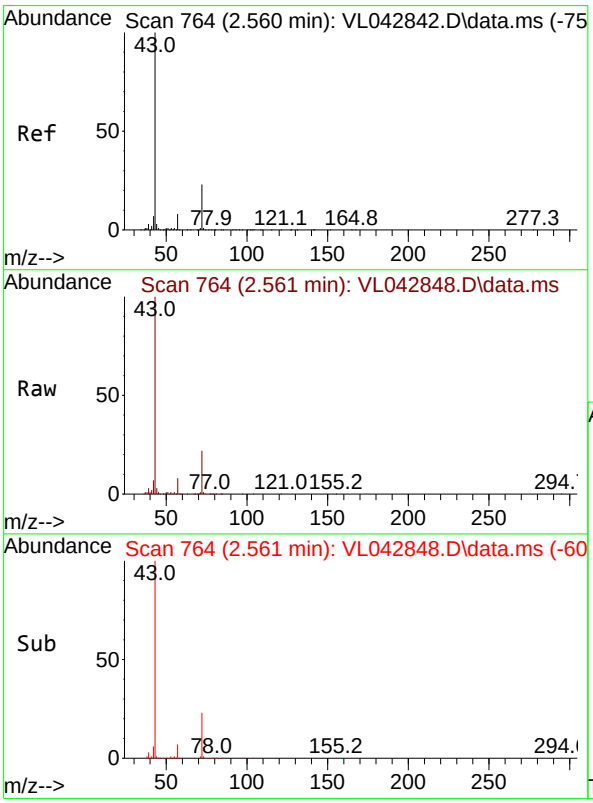
Ion	Ratio	Lower	Upper
114	100		
63	24.6	19.7	29.5
88	18.1	14.4	21.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

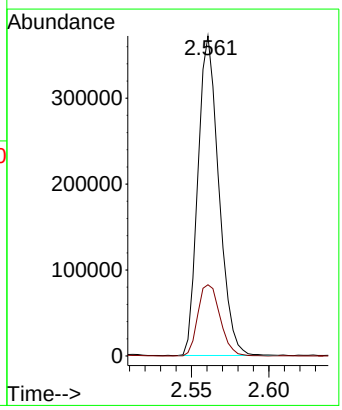
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

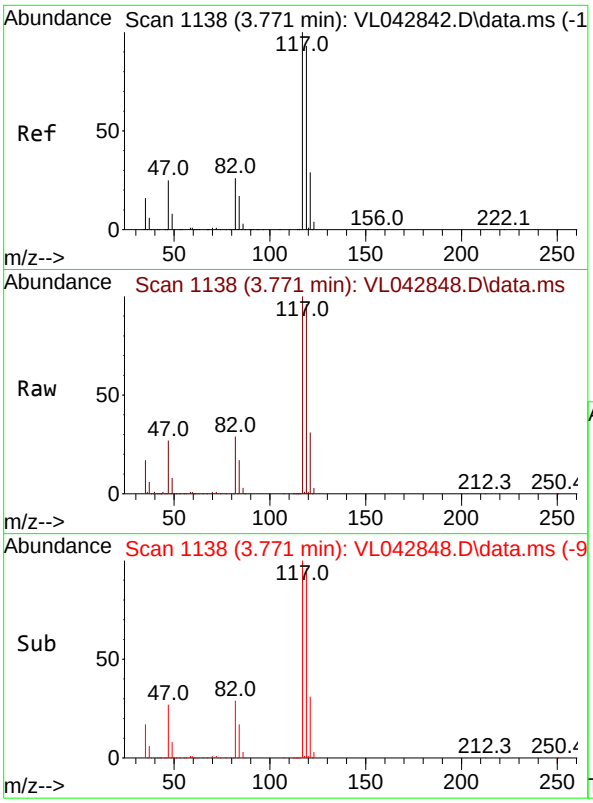


#34
2-Butanone
Concen: 13.563 ppbv
RT: 2.561 min Scan# 764
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 43 Resp: 348815

Ion	Ratio	Lower	Upper
43	100		
72	23.8	18.6	28.0

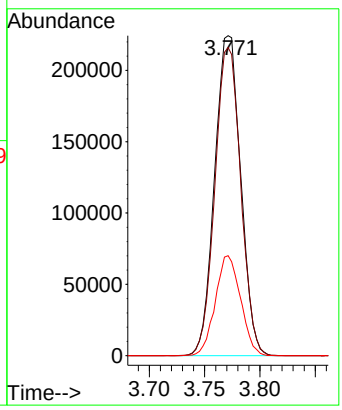




#35
Carbon Tetrachloride
Concen: 13.990 ppbv
RT: 3.771 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion:117 Resp: 36735

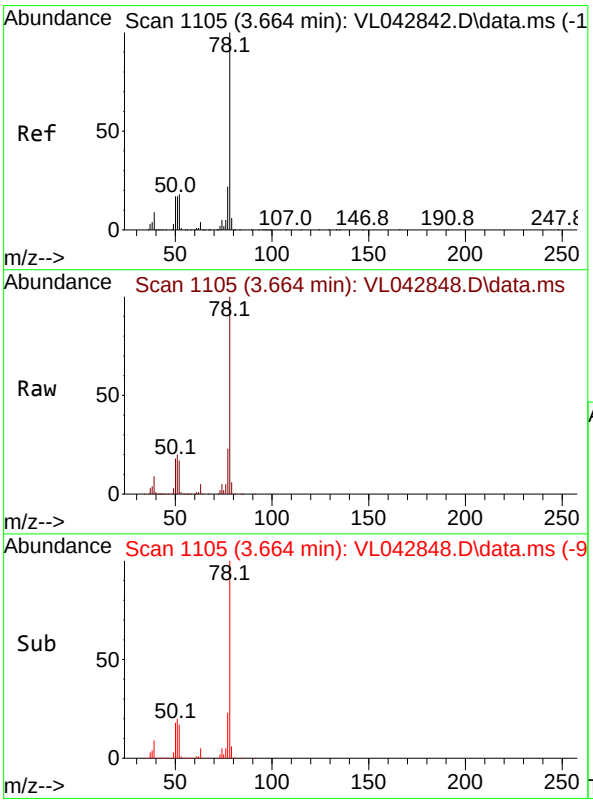
Ion	Ratio	Lower	Upper
117	100		
119	96.3	74.7	112.1
121	31.2	23.2	34.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

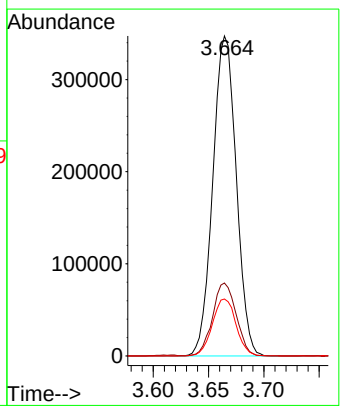
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

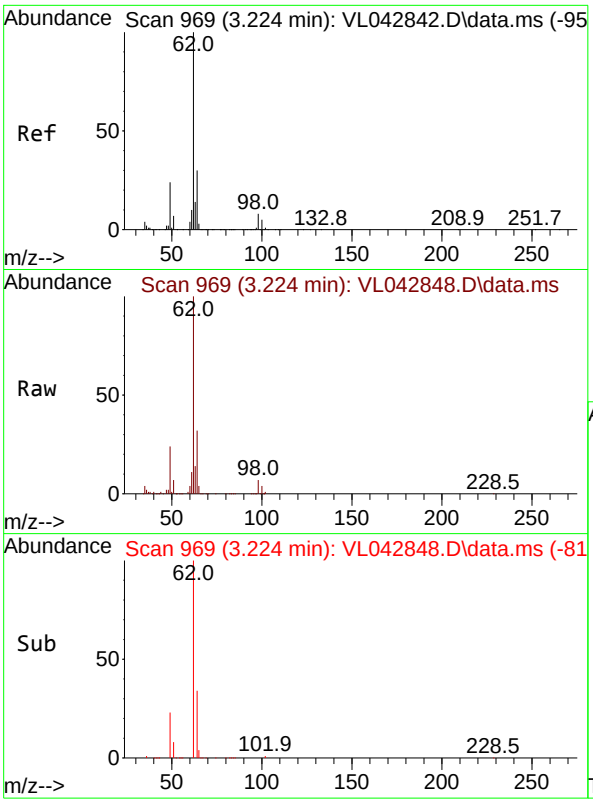


#36
Benzene
Concen: 14.033 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

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

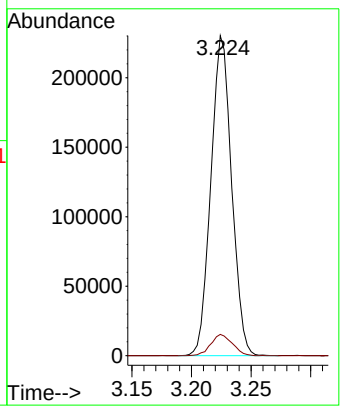




#37
1,2-Dichloroethane
Concen: 14.639 ppbv
RT: 3.224 min Scan# 9
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 62 Resp: 27893

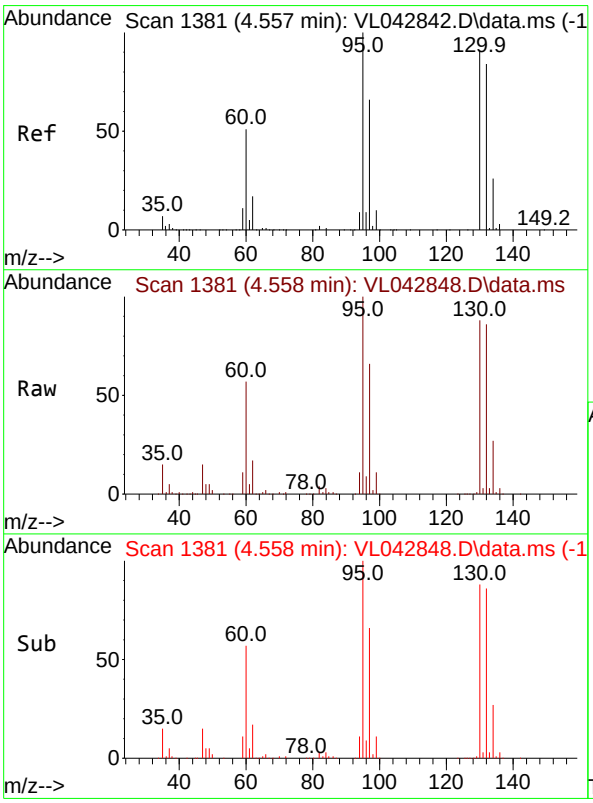
Ion	Ratio	Lower	Upper
62	100		
98	6.9	5.9	8.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

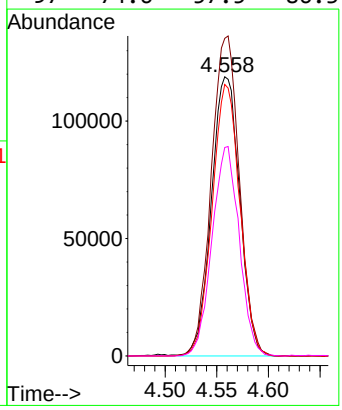
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

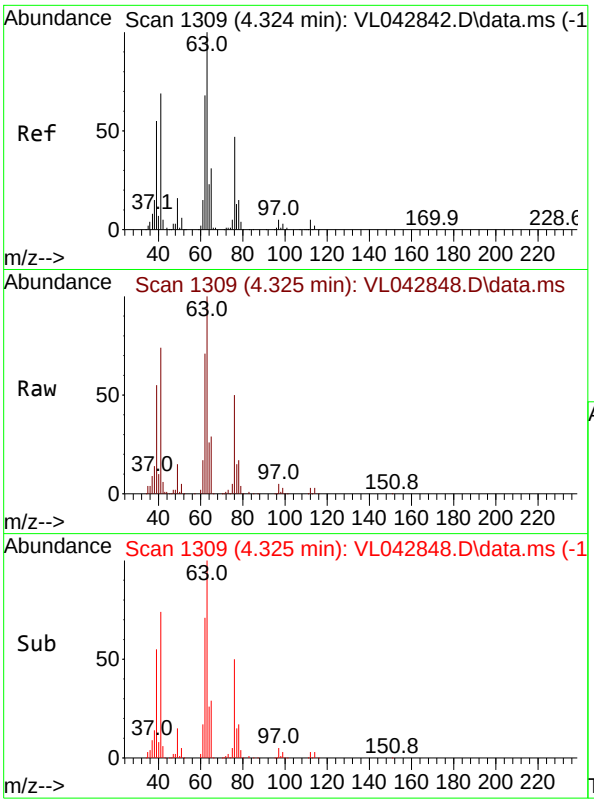


#38
Trichloroethene
Concen: 13.634 ppbv
RT: 4.558 min Scan# 1381
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

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

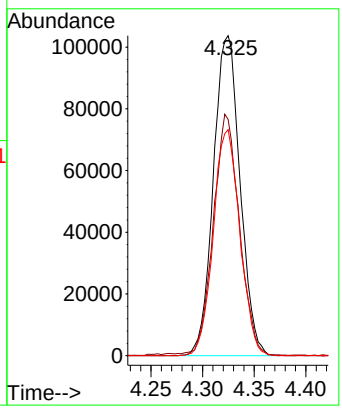




#39
1,2-Dichloropropane
Concen: 13.984 ppbv
RT: 4.325 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 63 Resp: 18627

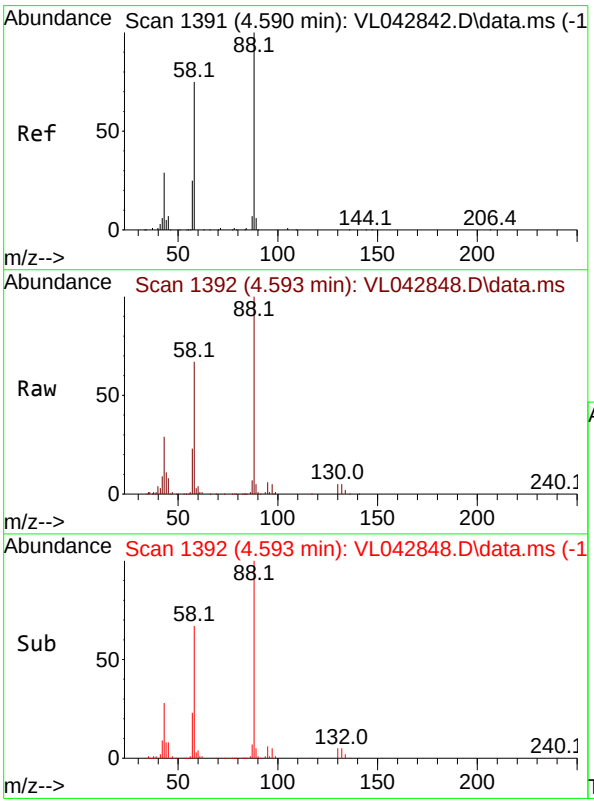
Ion	Ratio	Lower	Upper
63	100		
41	73.5	55.0	82.4
62	70.6	54.4	81.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

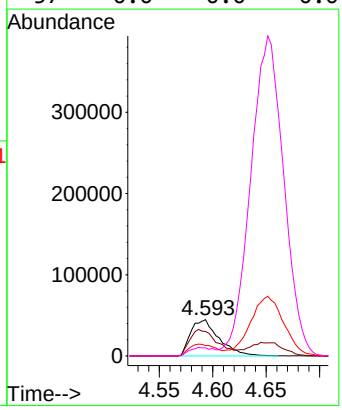
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

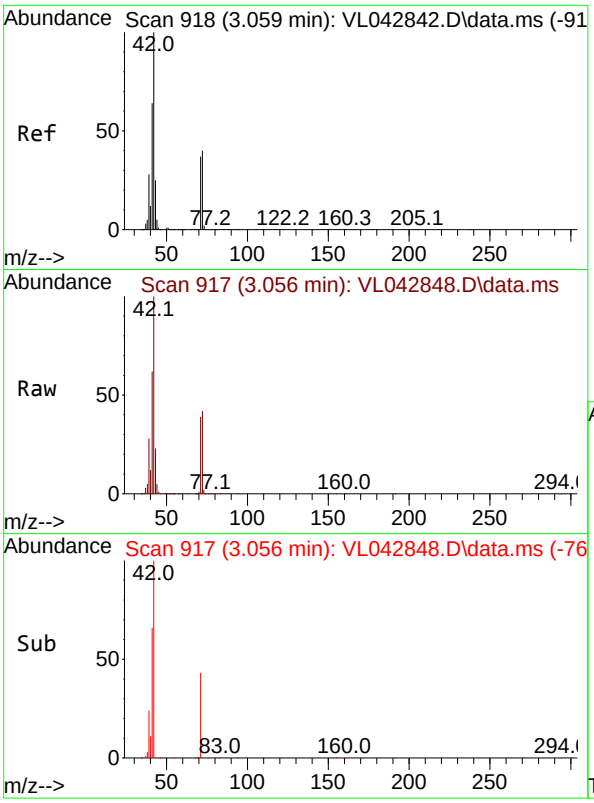


#40
1,4-Dioxane
Concen: 13.212 ppbv
RT: 4.593 min Scan# 1392
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

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# 9
Delta R.T. -0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

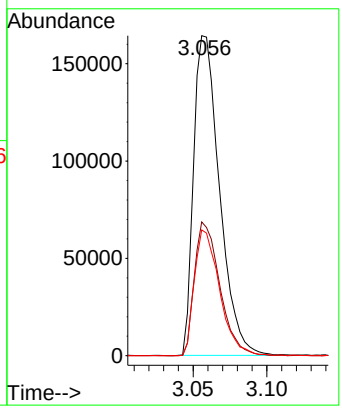
Tgt Ion: 42 Resp: 20075

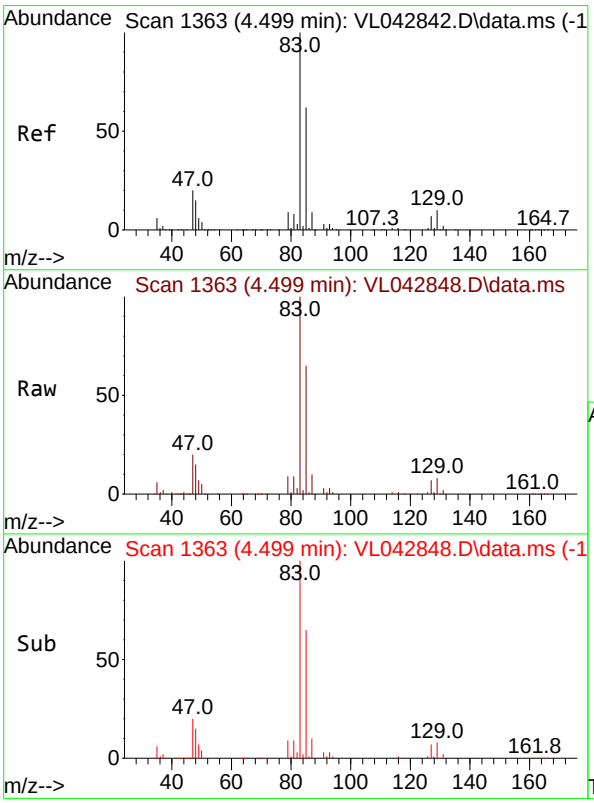
Ion	Ratio	Lower	Upper
42	100		
72	41.0	32.6	48.8
71	38.4	30.0	45.0

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

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Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

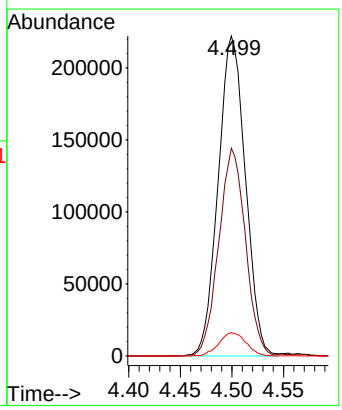


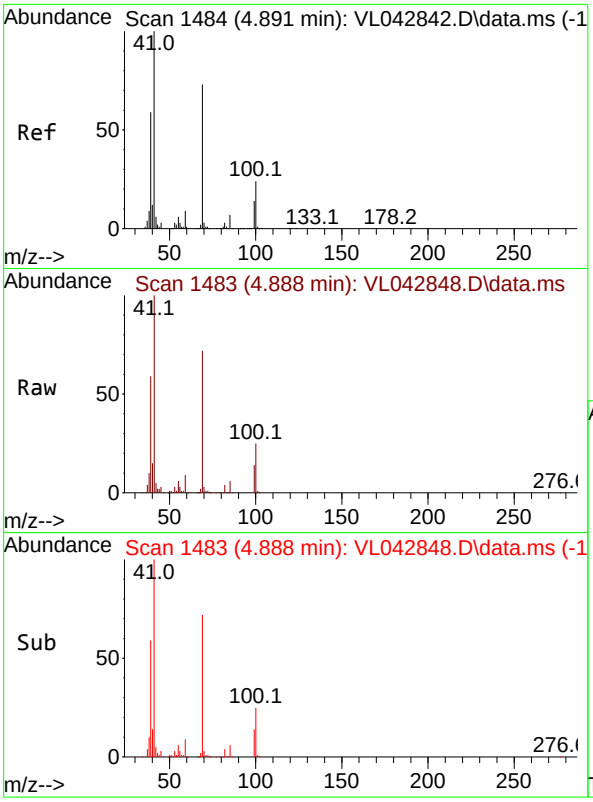


#42
Bromodichloromethane
Concen: 14.372 ppbv
RT: 4.499 min Scan# 1363
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

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

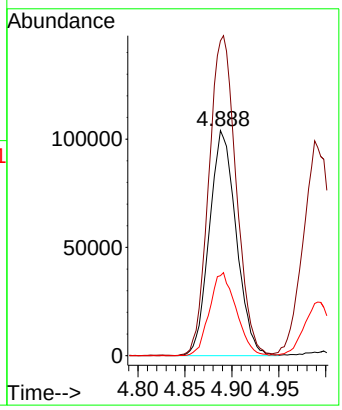




#43
Methyl Methacrylate
Concen: 13.808 ppbv
RT: 4.888 min Scan# 14
Delta R.T. -0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 69 Resp: 20659

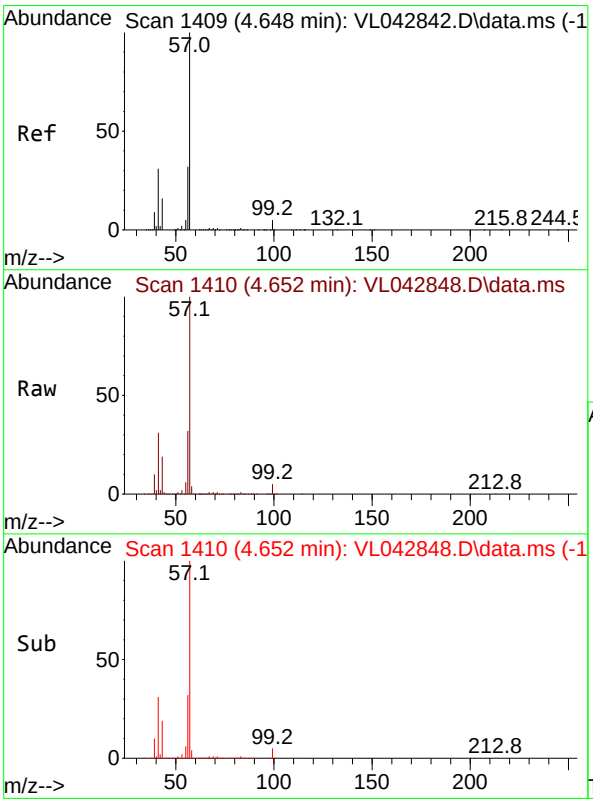
Ion	Ratio	Lower	Upper
69	100		
41	144.8	114.6	172.0
100	36.8	30.2	45.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
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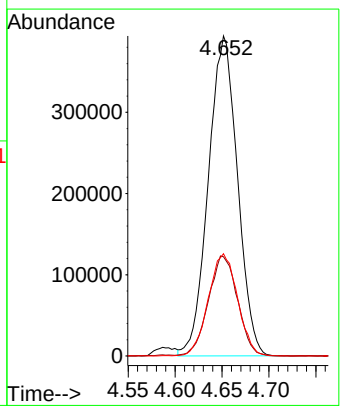
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

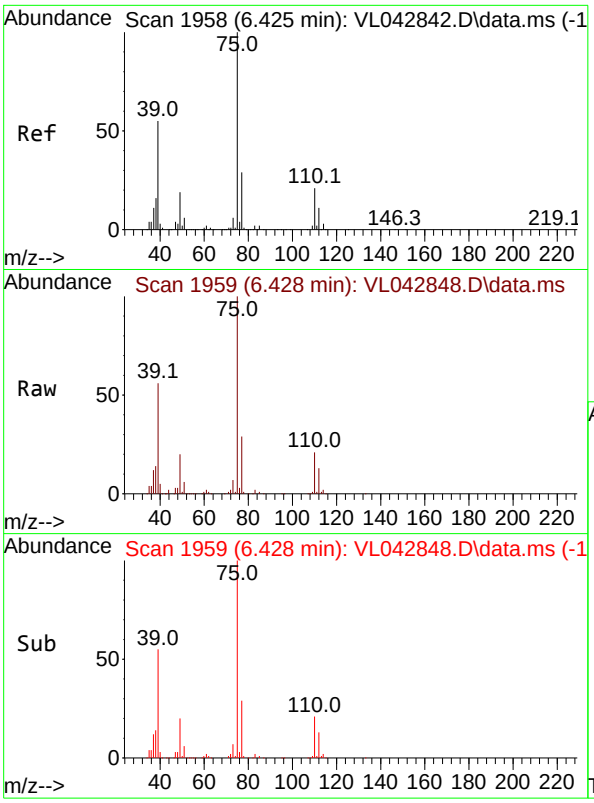


#44
2,2,4-Trimethylpentane
Concen: 13.895 ppbv
RT: 4.652 min Scan# 1410
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

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

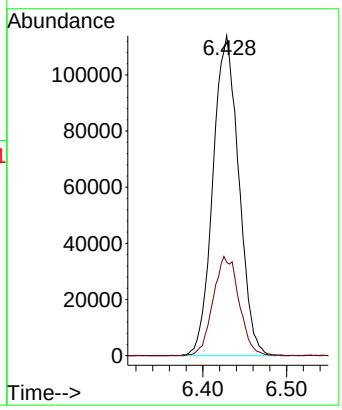




#45
t-1,3-Dichloropropene
Concen: 14.387 ppbv
RT: 6.428 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 75 Resp: 24411

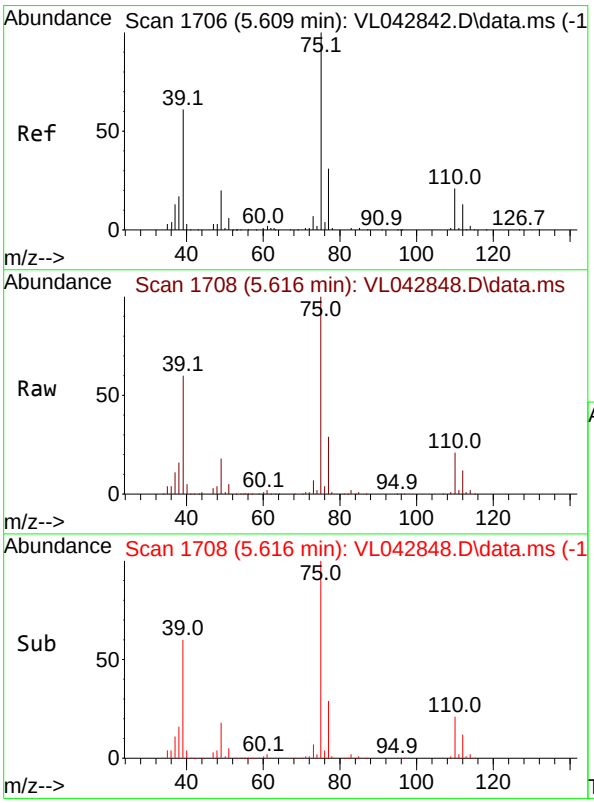
Ion	Ratio	Lower	Upper
75	100		
77	29.2	23.8	35.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
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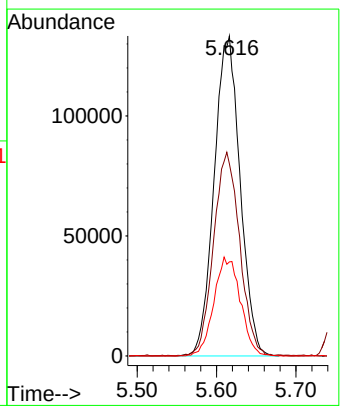
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

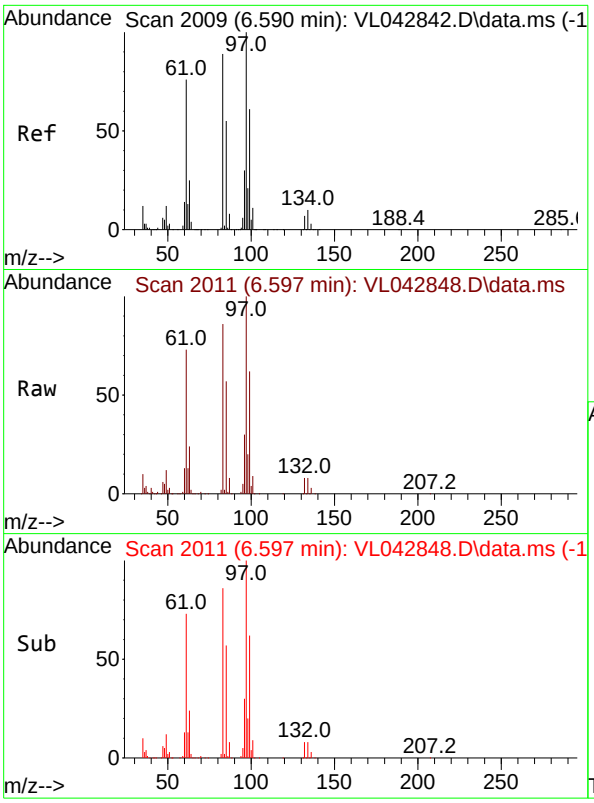


#46
cis-1,3-Dichloropropene
Concen: 14.191 ppbv
RT: 5.616 min Scan# 1708
Delta R.T. 0.007 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

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

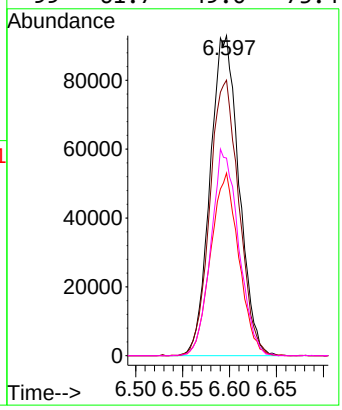




#47
1,1,2-Trichloroethane
Concen: 14.118 ppbv
RT: 6.597 min Scan# 2(
Delta R.T. 0.007 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 97 Resp: 19906

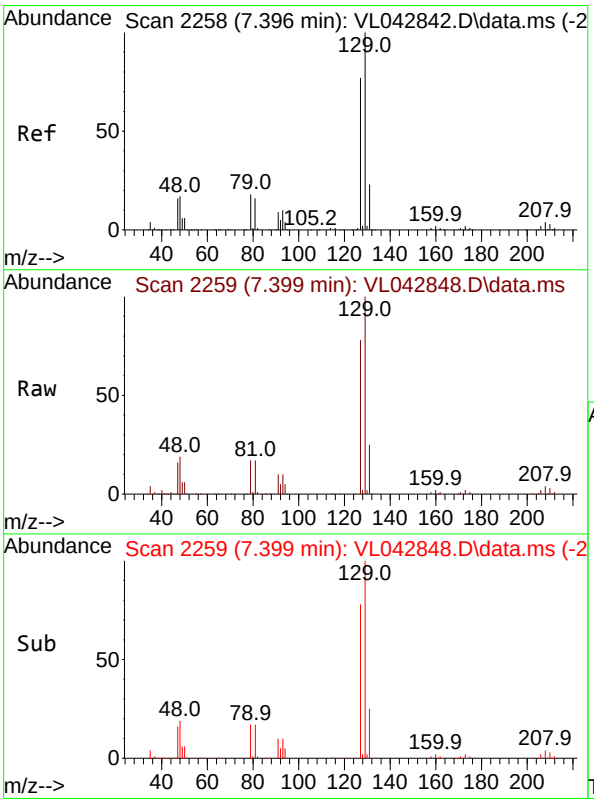
Ion	Ratio	Lower	Upper
97	100		
83	86.0	71.0	106.4
85	57.0	43.6	65.4
99	61.7	49.0	73.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
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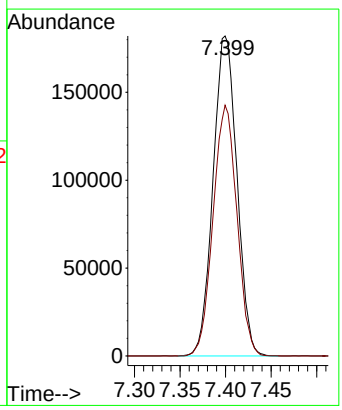
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

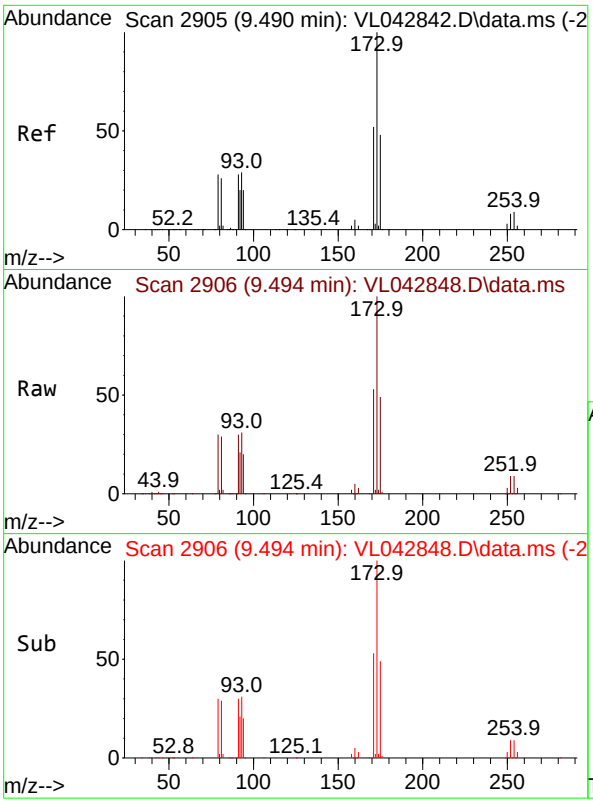


#48
Dibromochloromethane
Concen: 14.535 ppbv
RT: 7.399 min Scan# 2259
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion:129 Resp: 331947

Ion	Ratio	Lower	Upper
129	100		
127	78.4	39.4	118.2

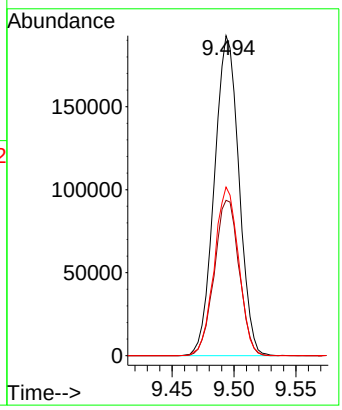




#49
Bromoform
Concen: 14.162 ppbv
RT: 9.494 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion:173 Resp: 26673

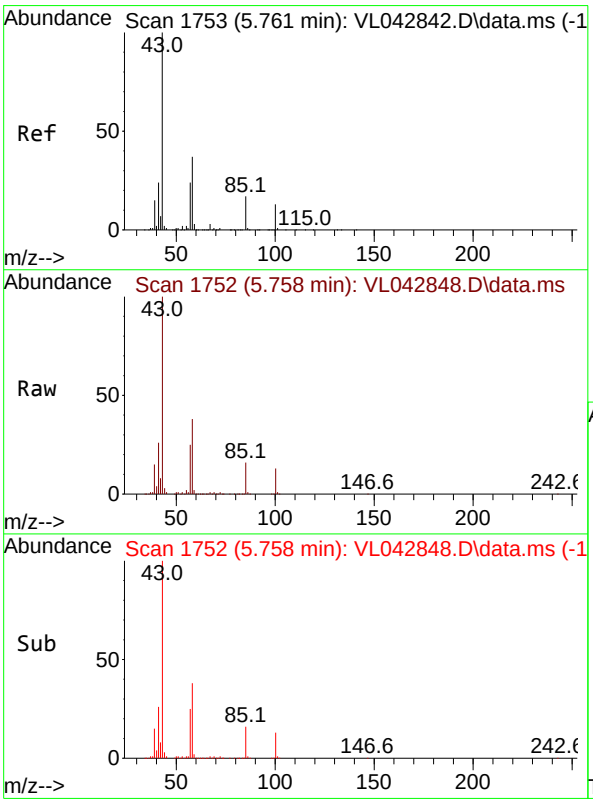
Ion	Ratio	Lower	Upper
173	100		
175	49.2	39.2	58.8
171	52.1	41.3	61.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
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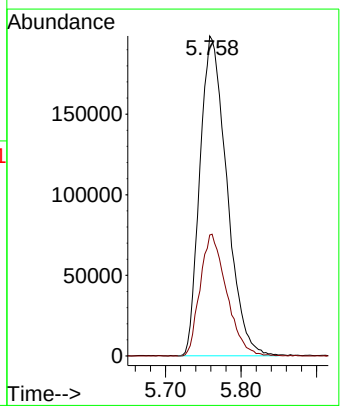
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

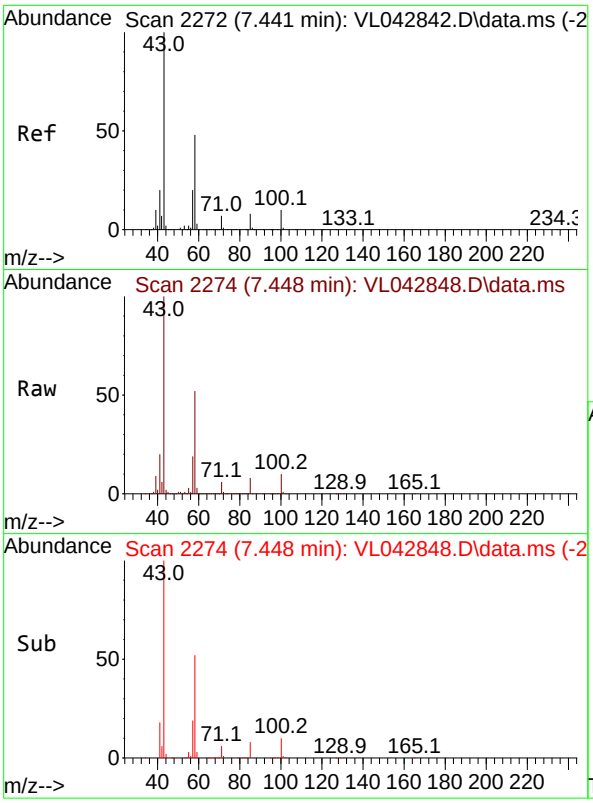


#50
4-Methyl-2-Pentanone
Concen: 14.073 ppbv
RT: 5.758 min Scan# 1752
Delta R.T. -0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 43 Resp: 490917

Ion	Ratio	Lower	Upper
43	100		
58	37.5	29.8	44.8

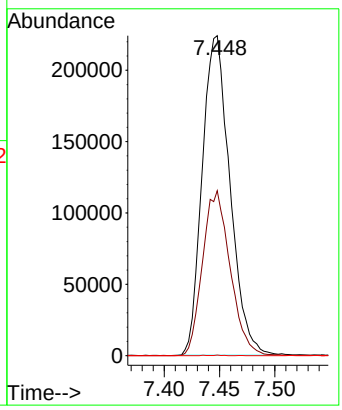




#51
2-Hexanone
Concen: 14.255 ppbv
RT: 7.448 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 43 Resp: 38994

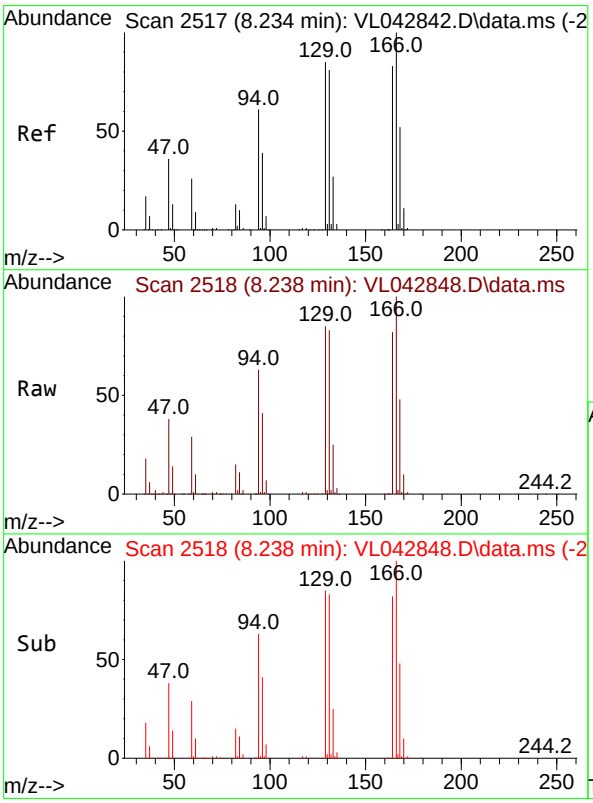
Ion	Ratio	Lower	Upper
43	100		
58	51.6	41.0	61.6
98	0.1	0.1	0.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
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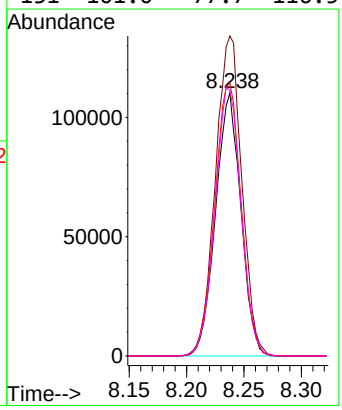
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

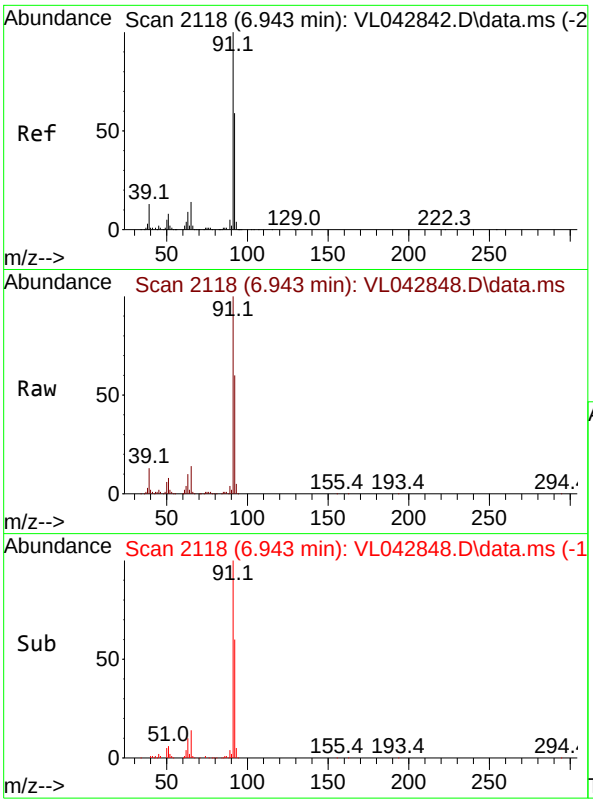


#52
Tetrachloroethene
Concen: 12.772 ppbv
RT: 8.238 min Scan# 2518
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

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# 2
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

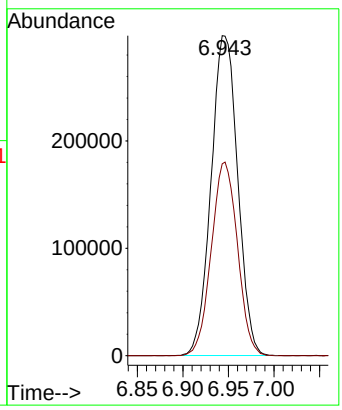
Tgt Ion: 91 Resp: 60594

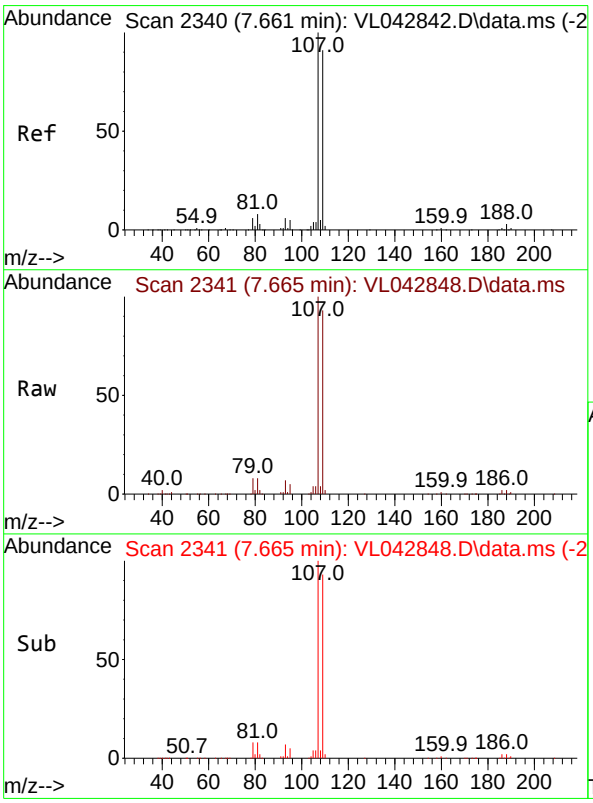
Ion	Ratio	Lower	Upper
91	100		
92	59.4	47.8	71.6

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

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Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

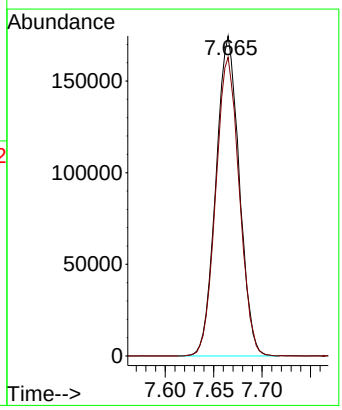


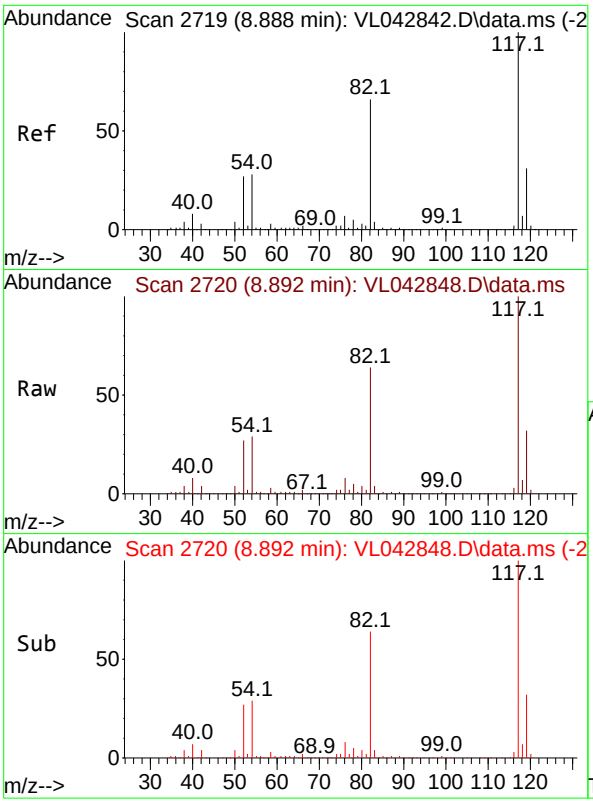


#54
1,2-Dibromoethane
Concen: 14.173 ppbv
RT: 7.665 min Scan# 2341
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion:107 Resp: 292327

Ion	Ratio	Lower	Upper
107	100		
109	93.4	72.5	108.7

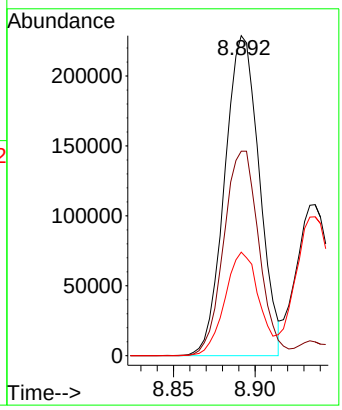




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.892 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion:117 Resp: 33787

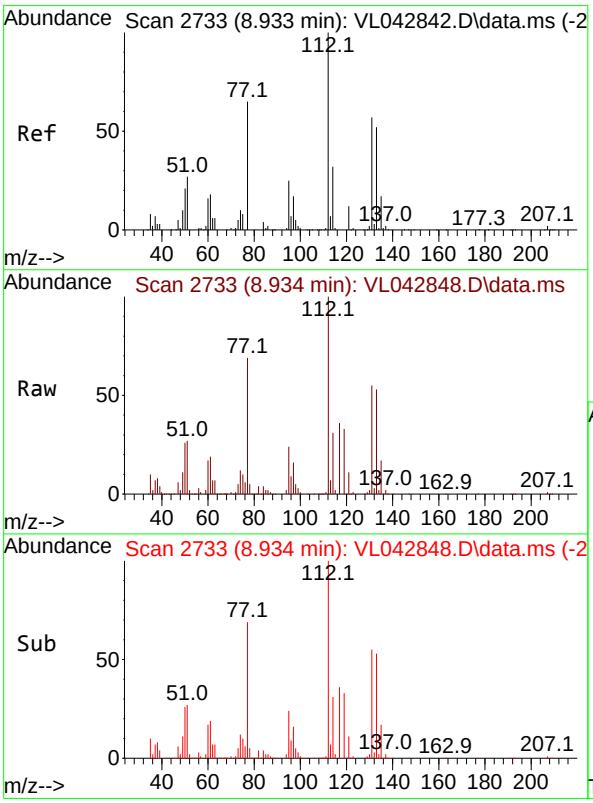
Ion	Ratio	Lower	Upper
117	100		
82	65.3	54.6	81.8
119	32.5	25.9	38.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
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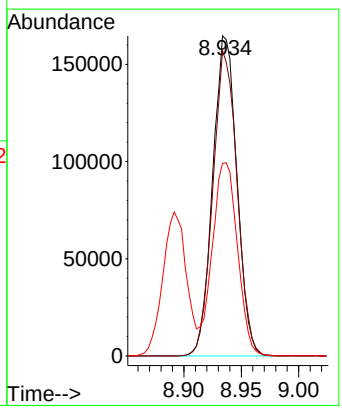
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

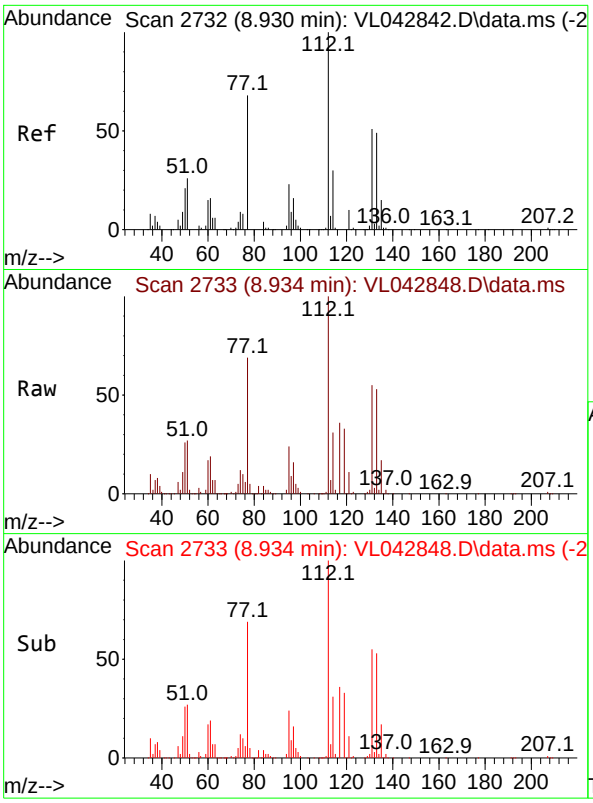


#56
1,1,1,2-Tetrachloroethane
Concen: 13.810 ppbv
RT: 8.934 min Scan# 2733
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

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

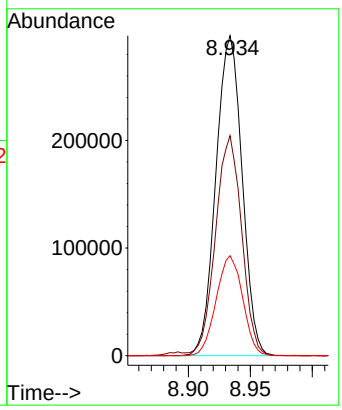




#57
Chlorobenzene
Concen: 13.668 ppbv
RT: 8.934 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion:112 Resp: 43910

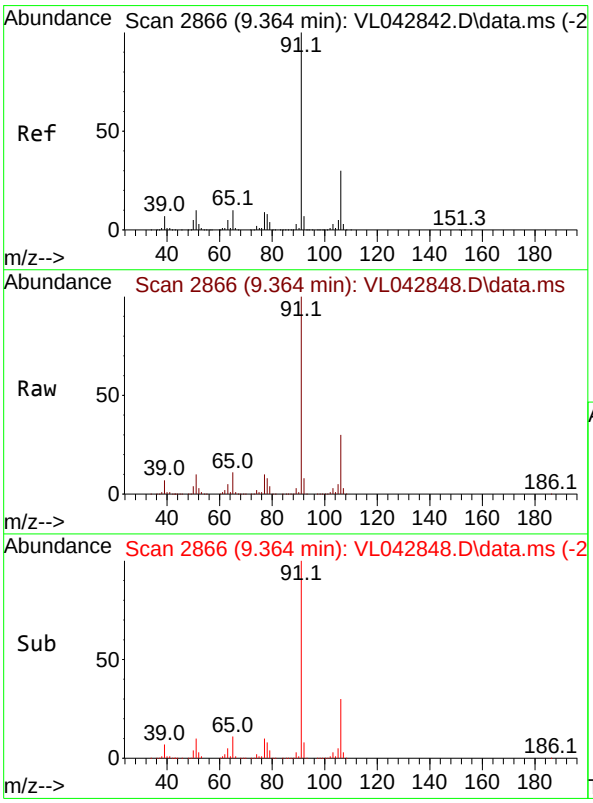
Ion	Ratio	Lower	Upper
112	100		
77	68.6	55.5	83.3
114	31.2	27.2	33.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

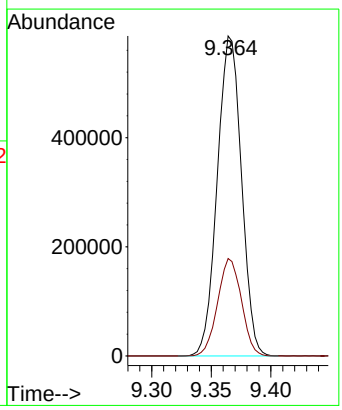
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

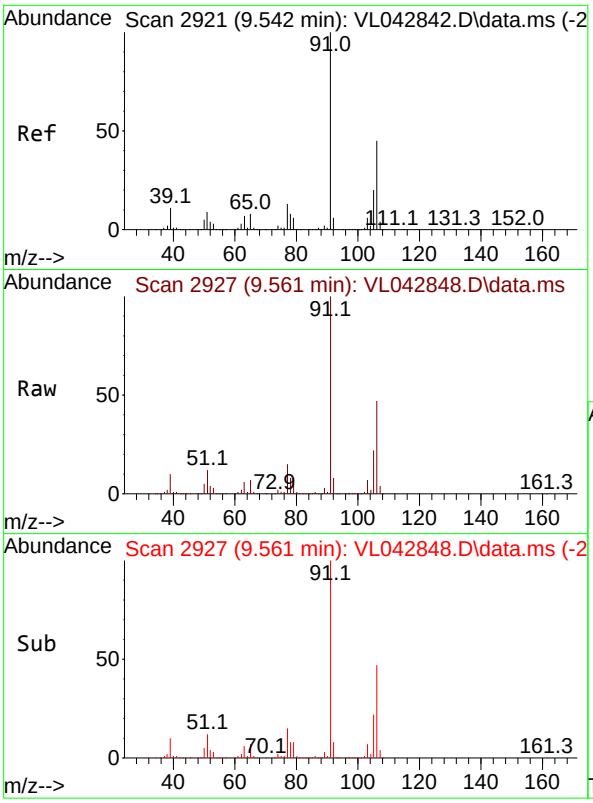


#58
Ethyl Benzene
Concen: 13.859 ppbv
RT: 9.364 min Scan# 2866
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 91 Resp: 826316

Ion	Ratio	Lower	Upper
91	100		
106	30.5	23.9	35.9

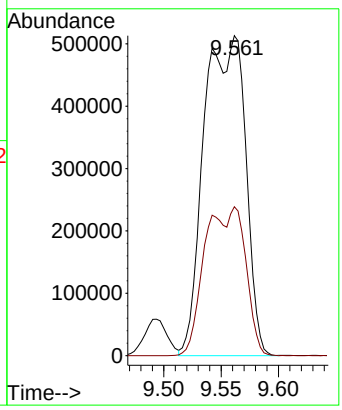




#59
m/p-Xylene
Concen: 27.650 ppbv m
RT: 9.561 min Scan# 2
Delta R.T. 0.020 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 91 Resp: 129438

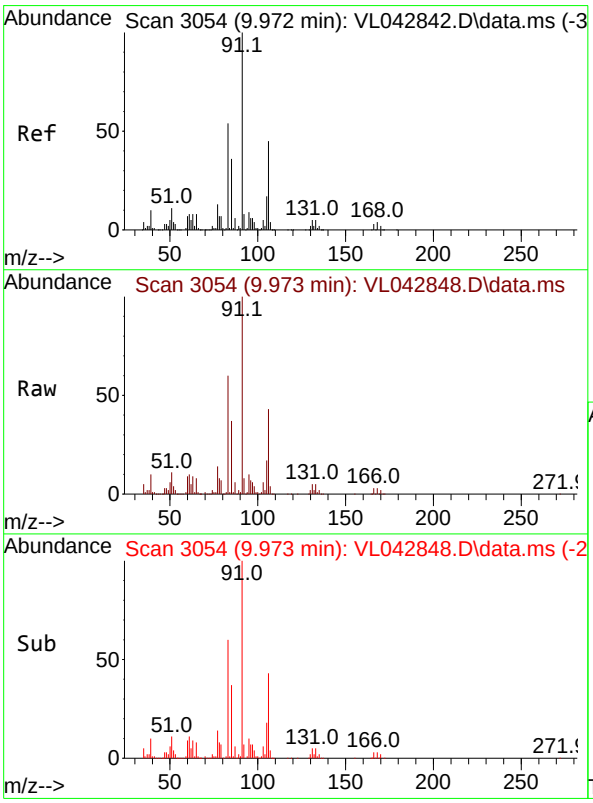
Ion	Ratio	Lower	Upper
91	100		
106	0.0	0.0	0.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

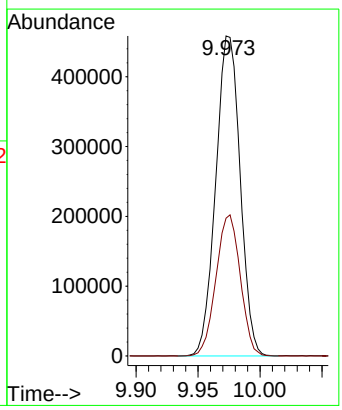
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

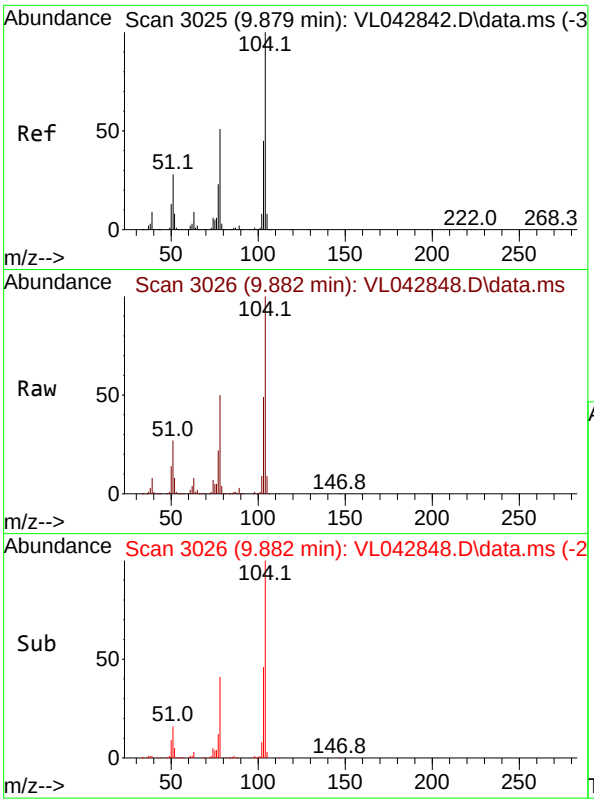


#60
o-Xylene
Concen: 13.389 ppbv
RT: 9.973 min Scan# 3054
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 91 Resp: 629445

Ion	Ratio	Lower	Upper
91	100		
106	43.9	21.8	65.4

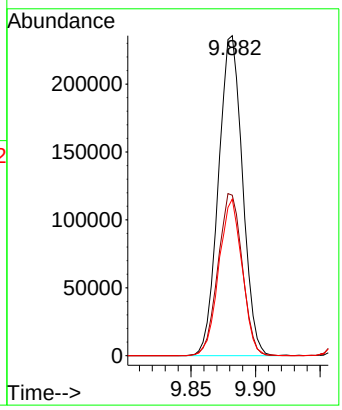




#61
Styrene
Concen: 13.827 ppbv
RT: 9.882 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion:104 Resp: 30456

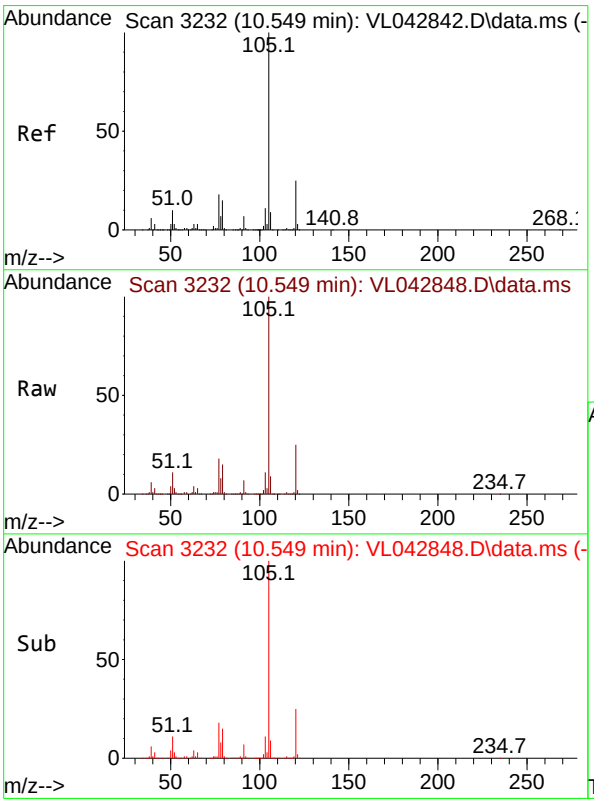
Ion	Ratio	Lower	Upper
104	100		
78	51.1	40.6	61.0
103	47.6	37.7	56.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

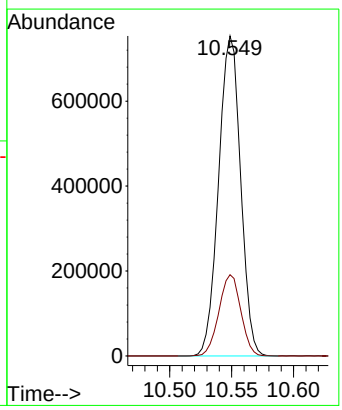
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

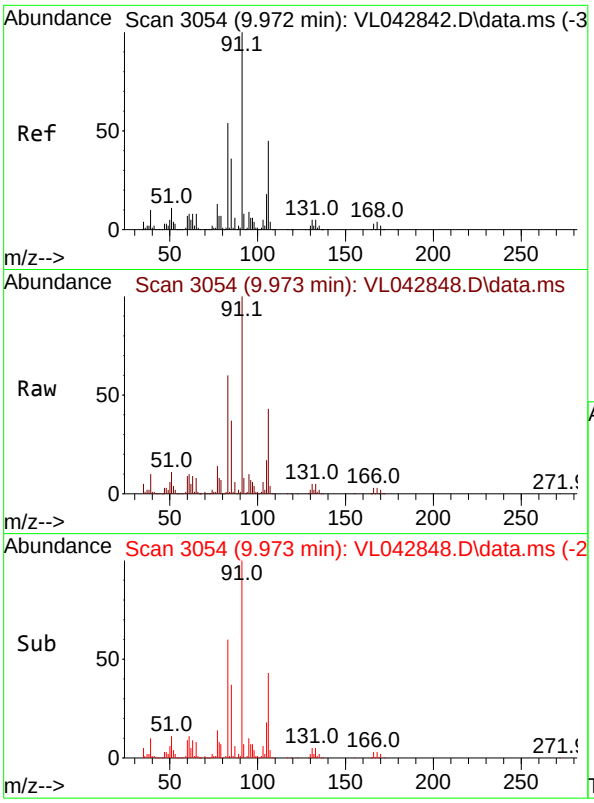


#62
Isopropylbenzene
Concen: 13.559 ppbv
RT: 10.549 min Scan# 3232
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion:105 Resp: 931574

Ion	Ratio	Lower	Upper
105	100		
120	25.2	20.6	30.8

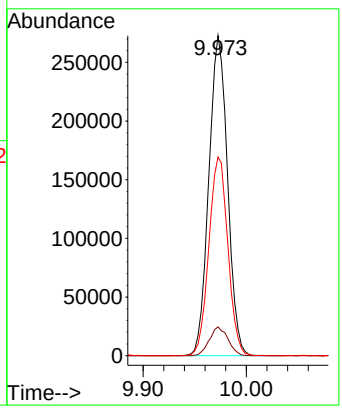




#63
1,1,2,2-Tetrachloroethane
Concen: 13.356 ppbv
RT: 9.973 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 83 Resp: 34289

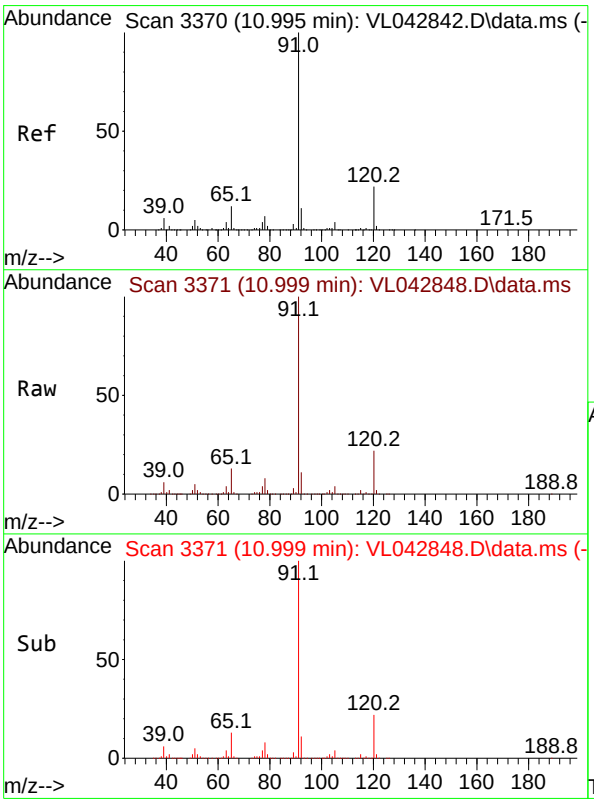
Ion	Ratio	Lower	Upper
83	100		
131	9.0	4.8	14.3
85	63.0	32.3	96.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

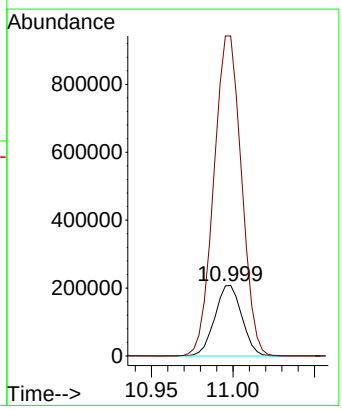
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

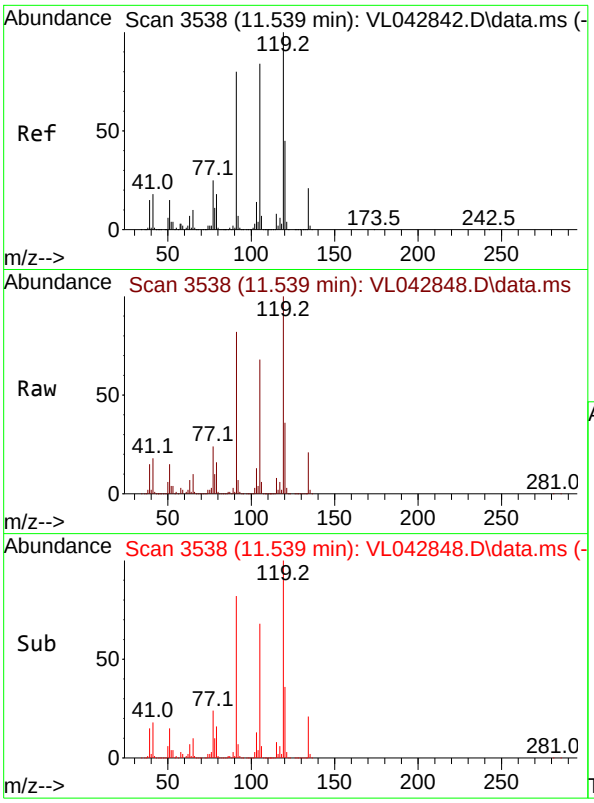


#64
n-propylbenzene
Concen: 13.646 ppbv
RT: 10.999 min Scan# 3371
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion:120 Resp: 239209

Ion	Ratio	Lower	Upper
120	100		
91	465.1	375.8	563.6

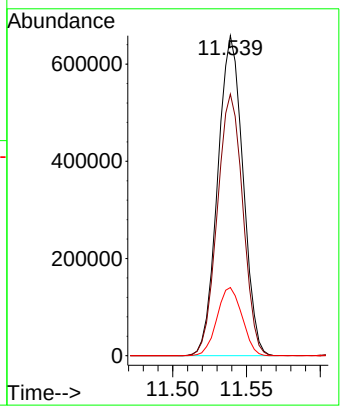




#65
tert-Butylbenzene
Concen: 12.965 ppbv
RT: 11.539 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion:119 Resp: 78525

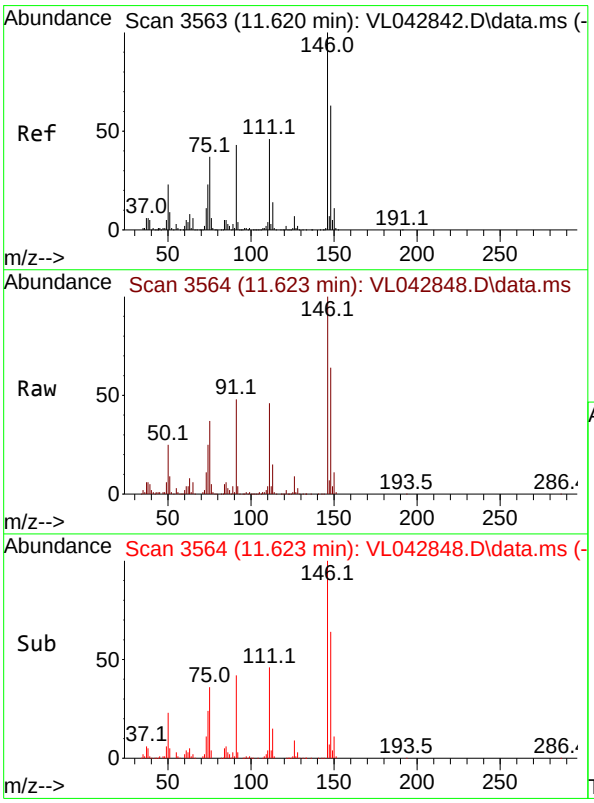
Ion	Ratio	Lower	Upper
119	100		
91	82.4	63.9	95.9
134	21.1	17.0	25.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

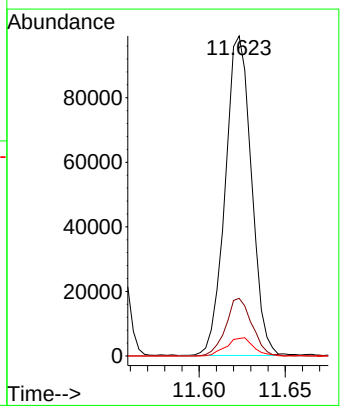
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

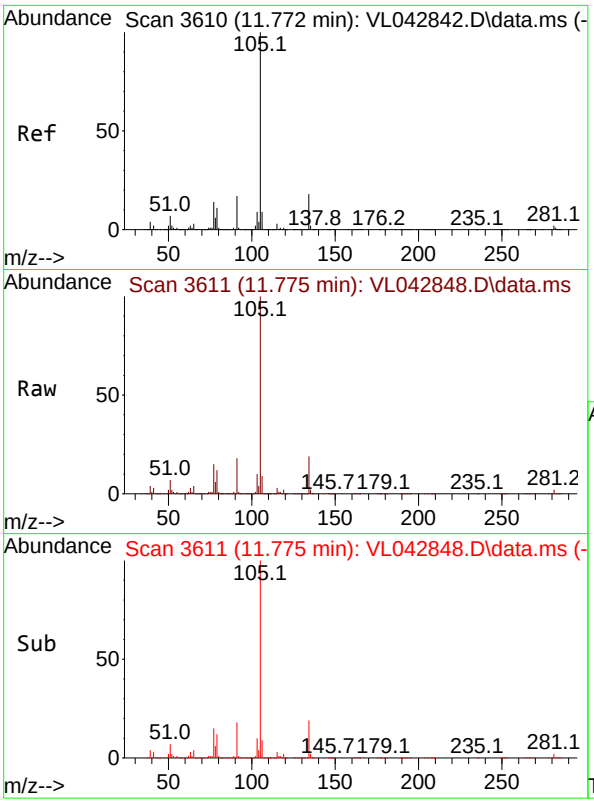


#66
Benzyl Chloride
Concen: 13.617 ppbv
RT: 11.623 min Scan# 3564
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

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

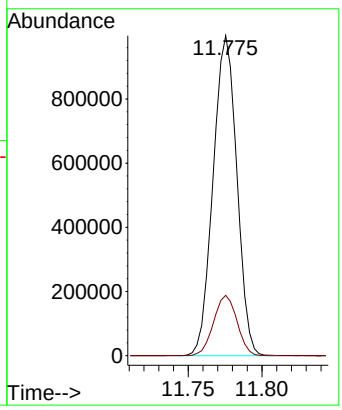




#67
sec-Butylbenzene
Concen: 13.127 ppbv
RT: 11.775 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion:105 Resp: 111597

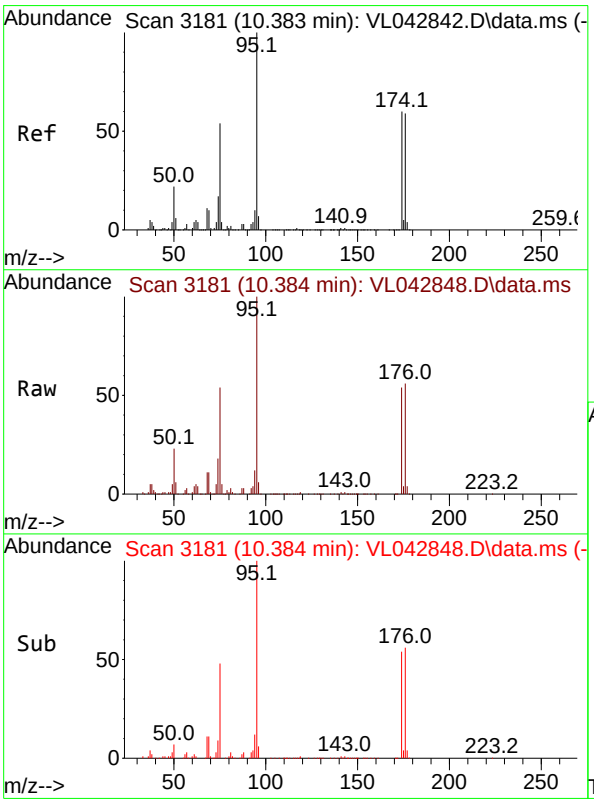
Ion	Ratio	Lower	Upper
105	100		
134	18.7	14.9	22.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

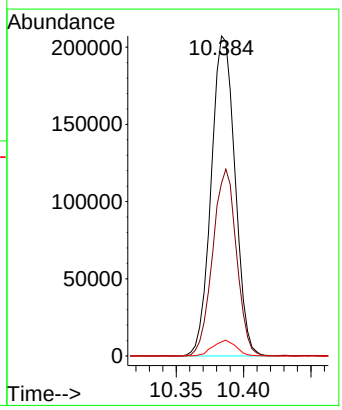
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

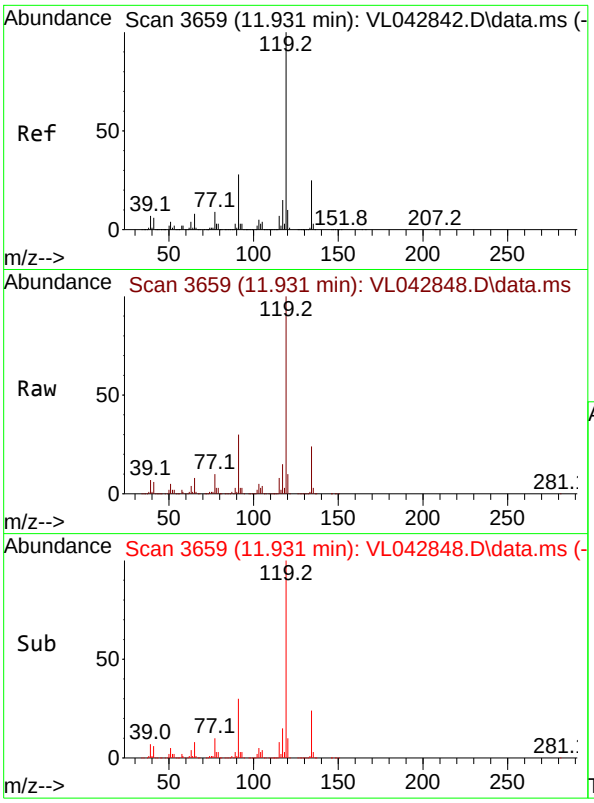


#68
1-Bromo-4-Fluorobenzene
Concen: 10.050 ppbv
RT: 10.384 min Scan# 3181
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

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

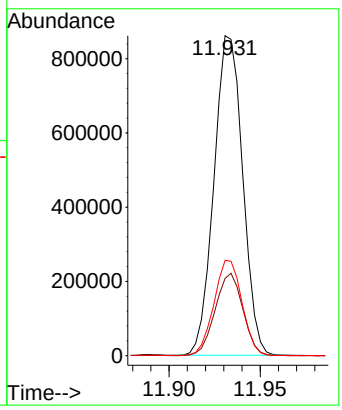




#69
p-Isopropyltoluene
Concen: 12.891 ppbv
RT: 11.931 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion:119 Resp: 94088

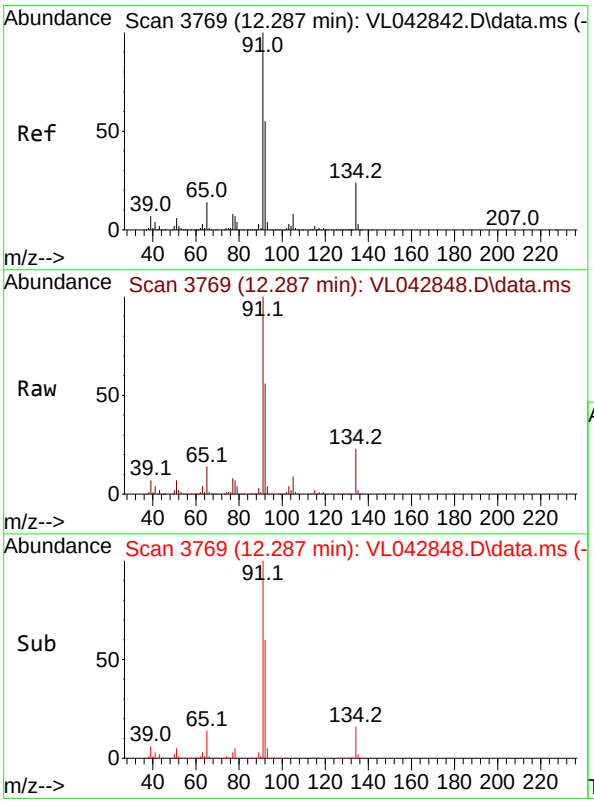
Ion	Ratio	Lower	Upper
119	100		
134	25.0	20.6	30.8
91	29.4	22.6	34.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED

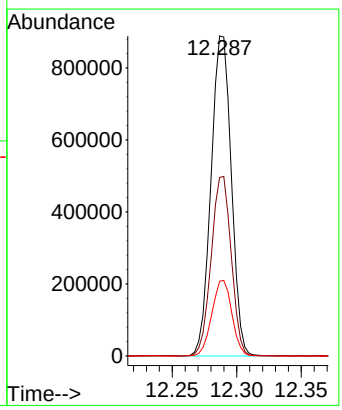
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

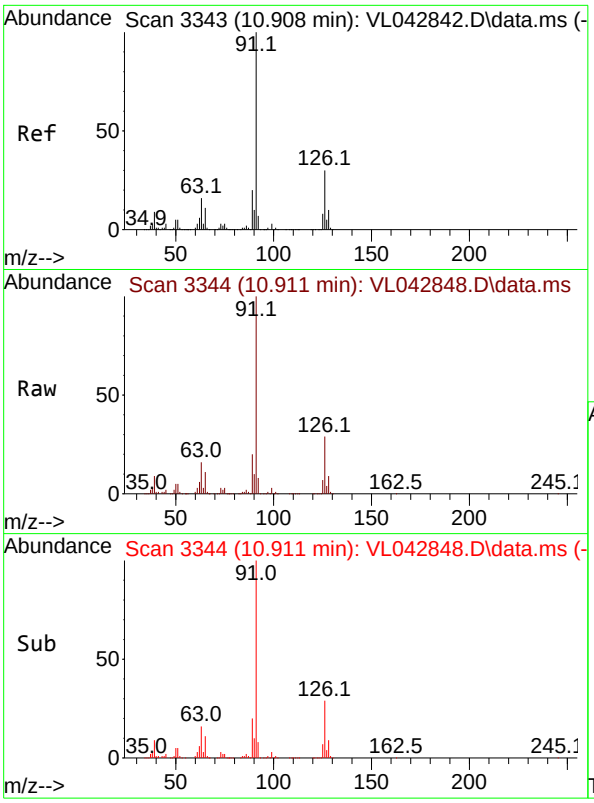


#70
n-Butylbenzene
Concen: 13.410 ppbv
RT: 12.287 min Scan# 3769
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

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

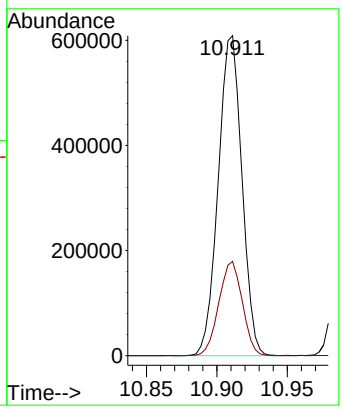




#71
2-Chlorotoluene
Concen: 13.378 ppbv
RT: 10.911 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 91 Resp: 71369

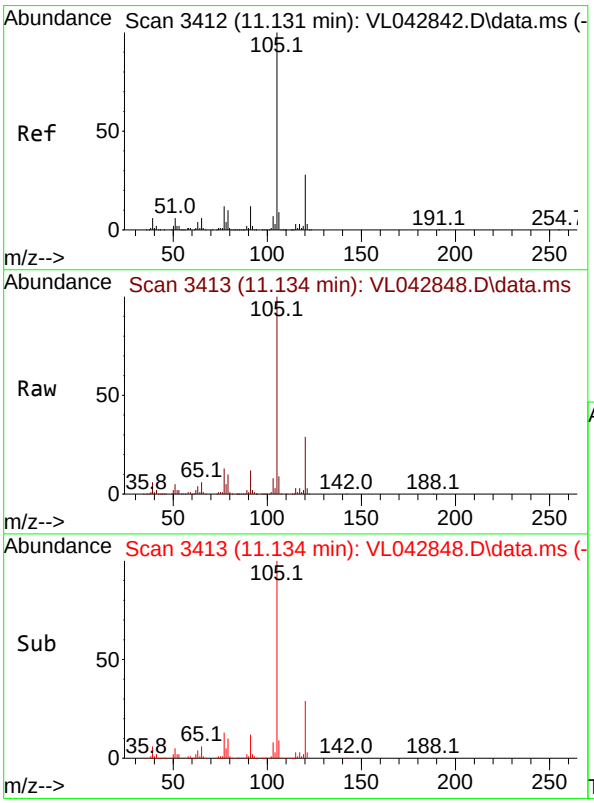
Ion	Ratio	Lower	Upper
91	100		
126	29.2	12.0	47.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

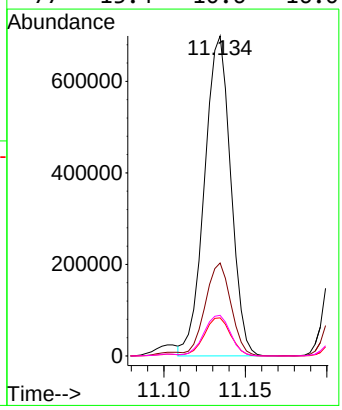
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

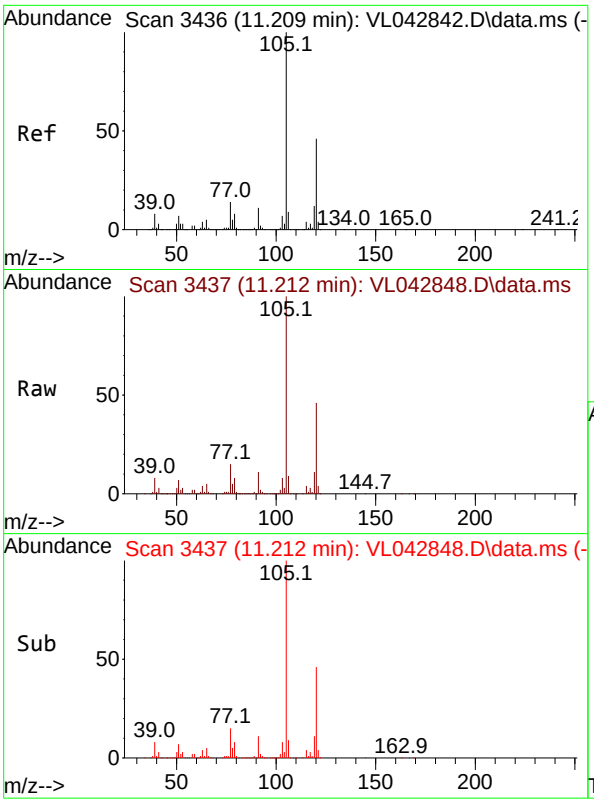


#72
4-Ethyltoluene
Concen: 13.722 ppbv
RT: 11.134 min Scan# 3413
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

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

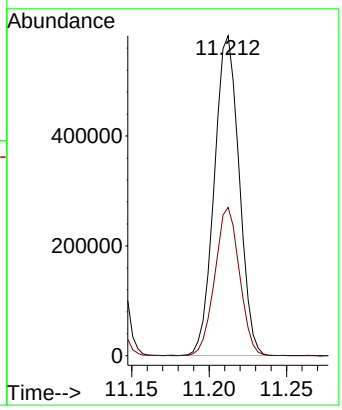




#73
1,3,5-Trimethylbenzene
Concen: 13.418 ppbv
RT: 11.212 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion:105 Resp: 65028

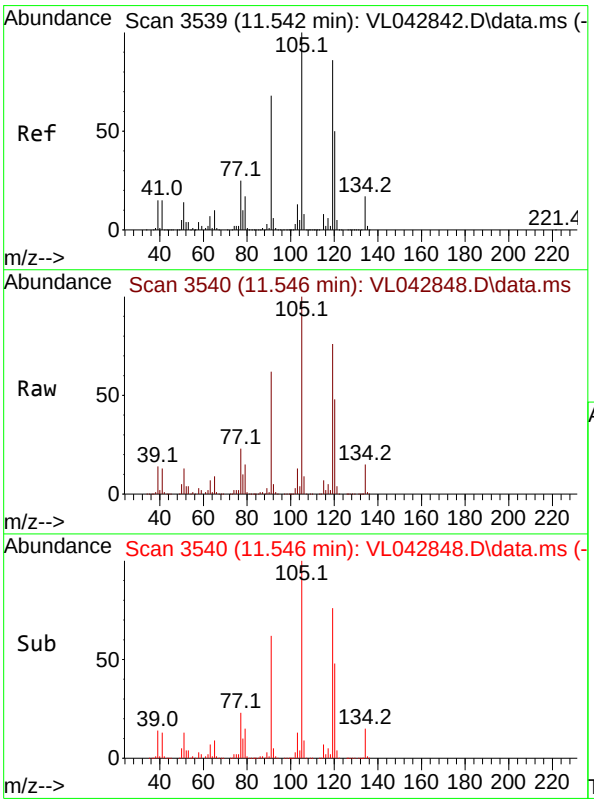
Ion	Ratio	Lower	Upper
105	100		
120	46.4	36.6	54.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

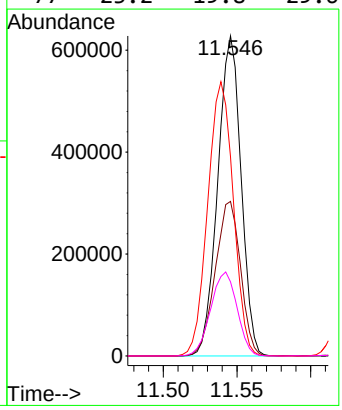
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

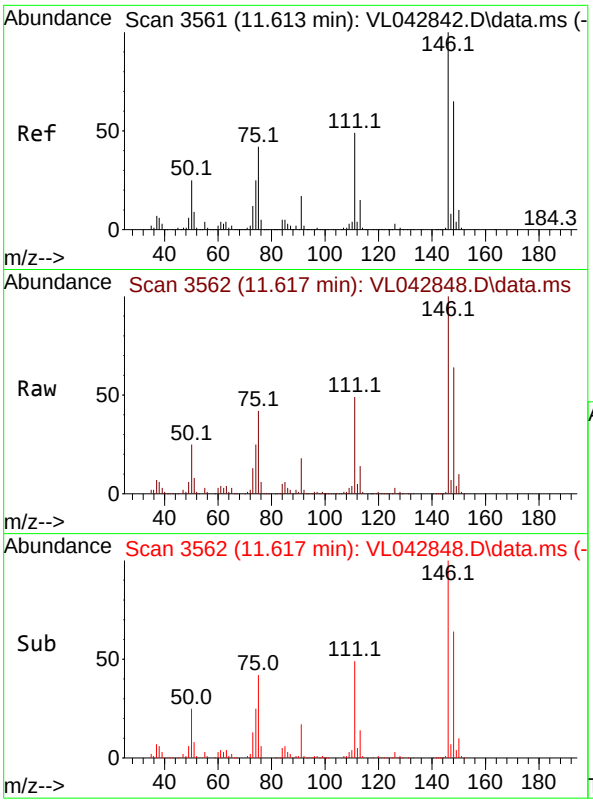


#74
1,2,4-Trimethylbenzene
Concen: 13.003 ppbv
RT: 11.546 min Scan# 3540
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

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

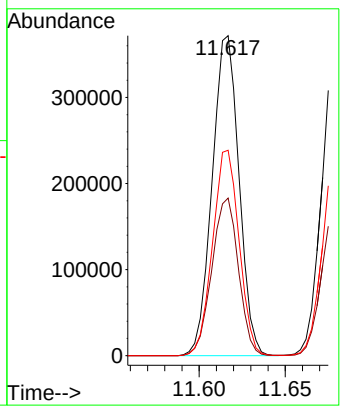




#75
1,3-Dichlorobenzene
Concen: 13.321 ppbv
RT: 11.617 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion:146 Resp: 40285

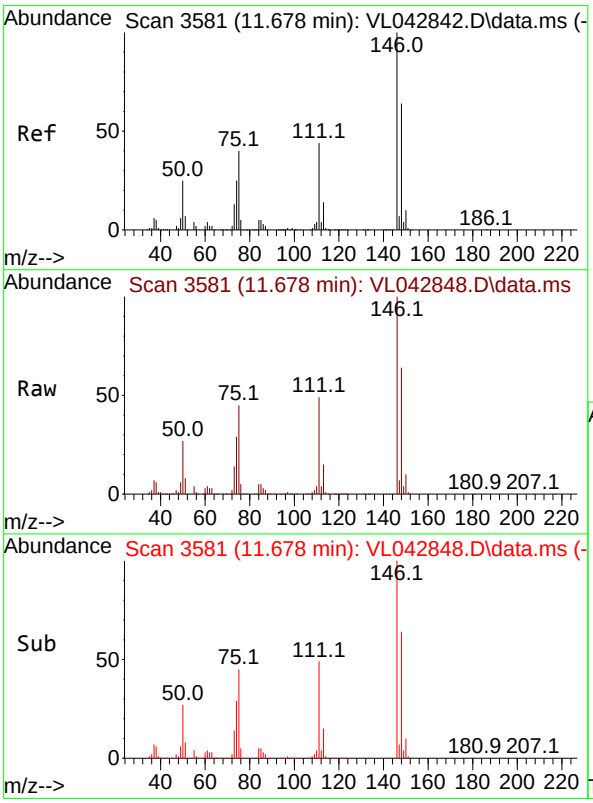
Ion	Ratio	Lower	Upper
146	100		
111	48.9	23.9	71.7
148	63.5	31.4	94.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

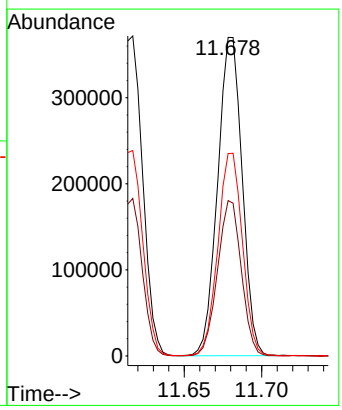
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

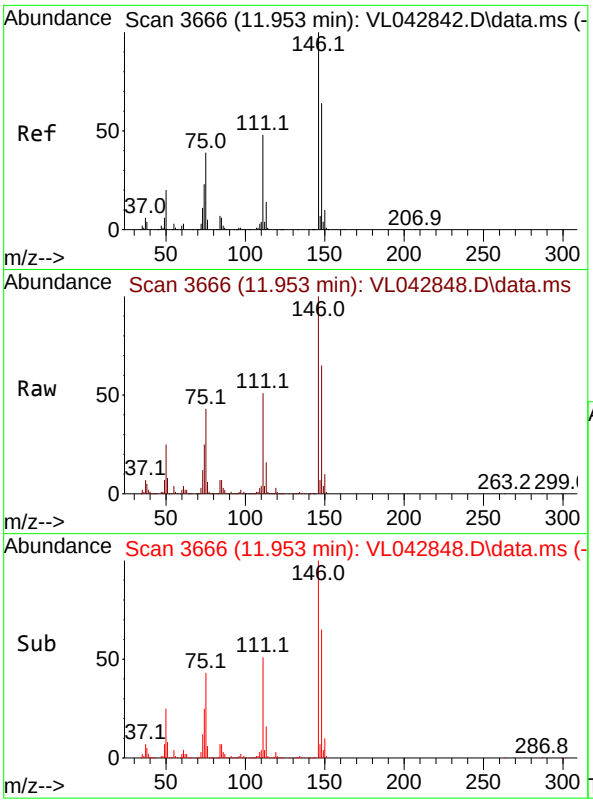


#76
1,4-Dichlorobenzene
Concen: 13.314 ppbv
RT: 11.678 min Scan# 3581
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

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

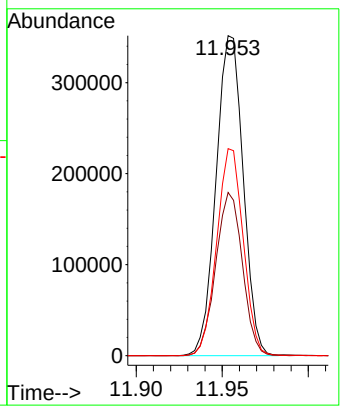




#77
1,2-Dichlorobenzene
Concen: 13.031 ppbv
RT: 11.953 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion:146 Resp: 38586

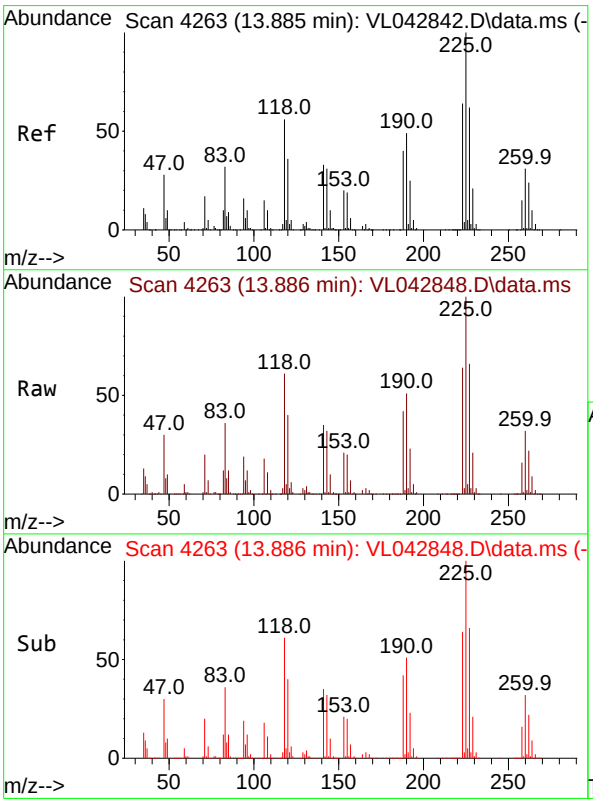
Ion	Ratio	Lower	Upper
146	100		
111	50.2	24.6	74.0
148	63.3	32.0	96.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

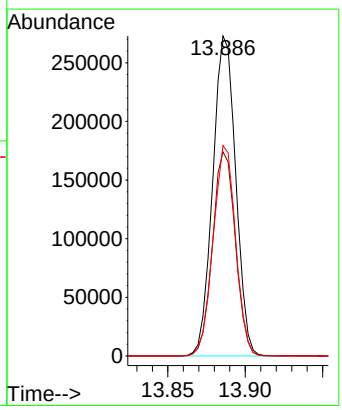
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

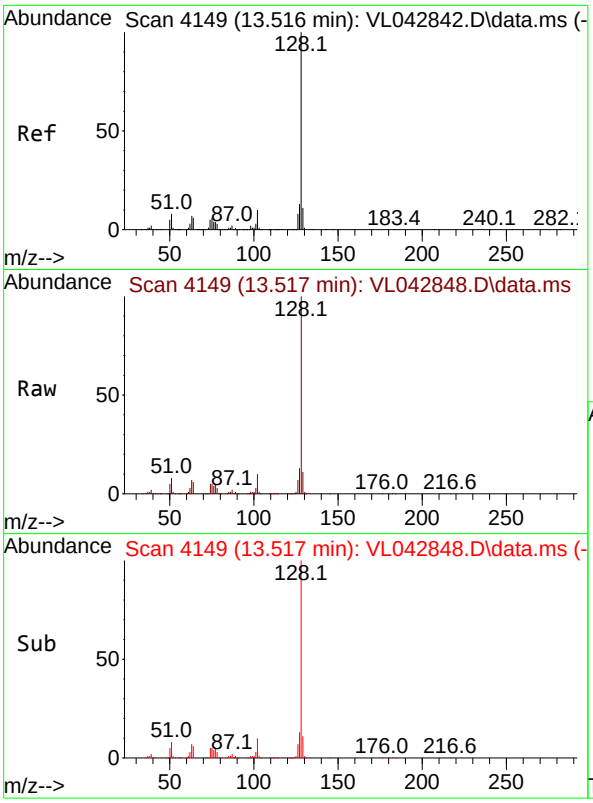


#78
Hexachloro-1,3-Butadiene
Concen: 11.602 ppbv
RT: 13.886 min Scan# 4263
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

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# 4
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

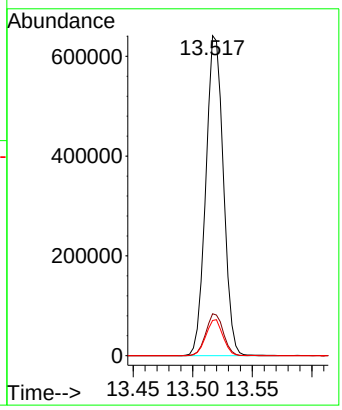
Tgt Ion:128 Resp: 65873

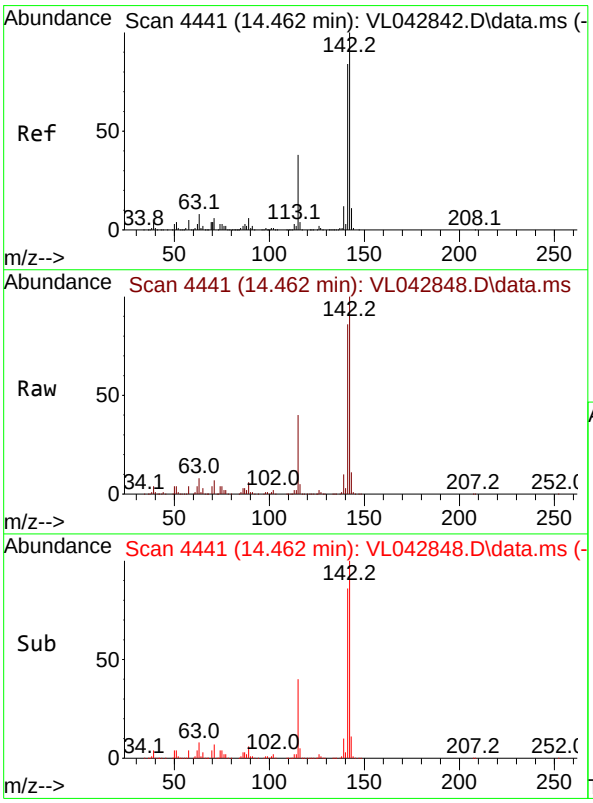
Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.6	16.0
129	11.0	8.9	13.3

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

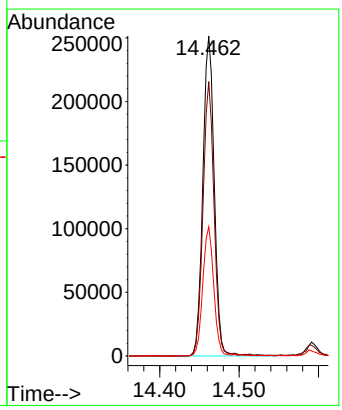


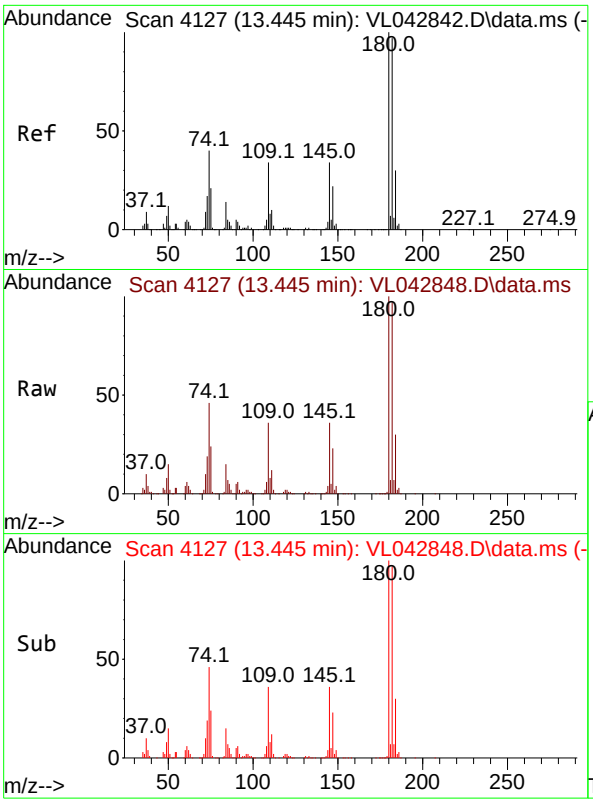


#80
Naphthalene,2-methyl-
Concen: 14.042 ppbv
RT: 14.462 min Scan# 4441
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

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

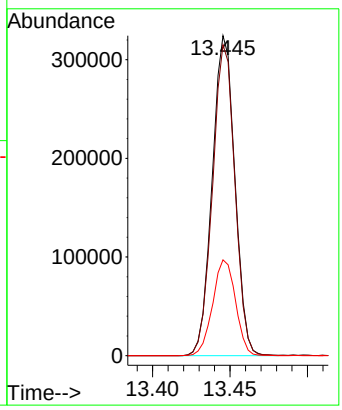




#81
1,2,4-Trichlorobenzene
Concen: 13.599 ppbv
RT: 13.445 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

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



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

Quantitation Report (QT Reviewed)

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

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 1
QLast Update : Thu Aug 14 02:12:54 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

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	2.790	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

Quantitation Report (QT Reviewed)

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

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 1
QLast Update : Thu Aug 14 02:12:54 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

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)
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

Quantitation Report (QT Reviewed)

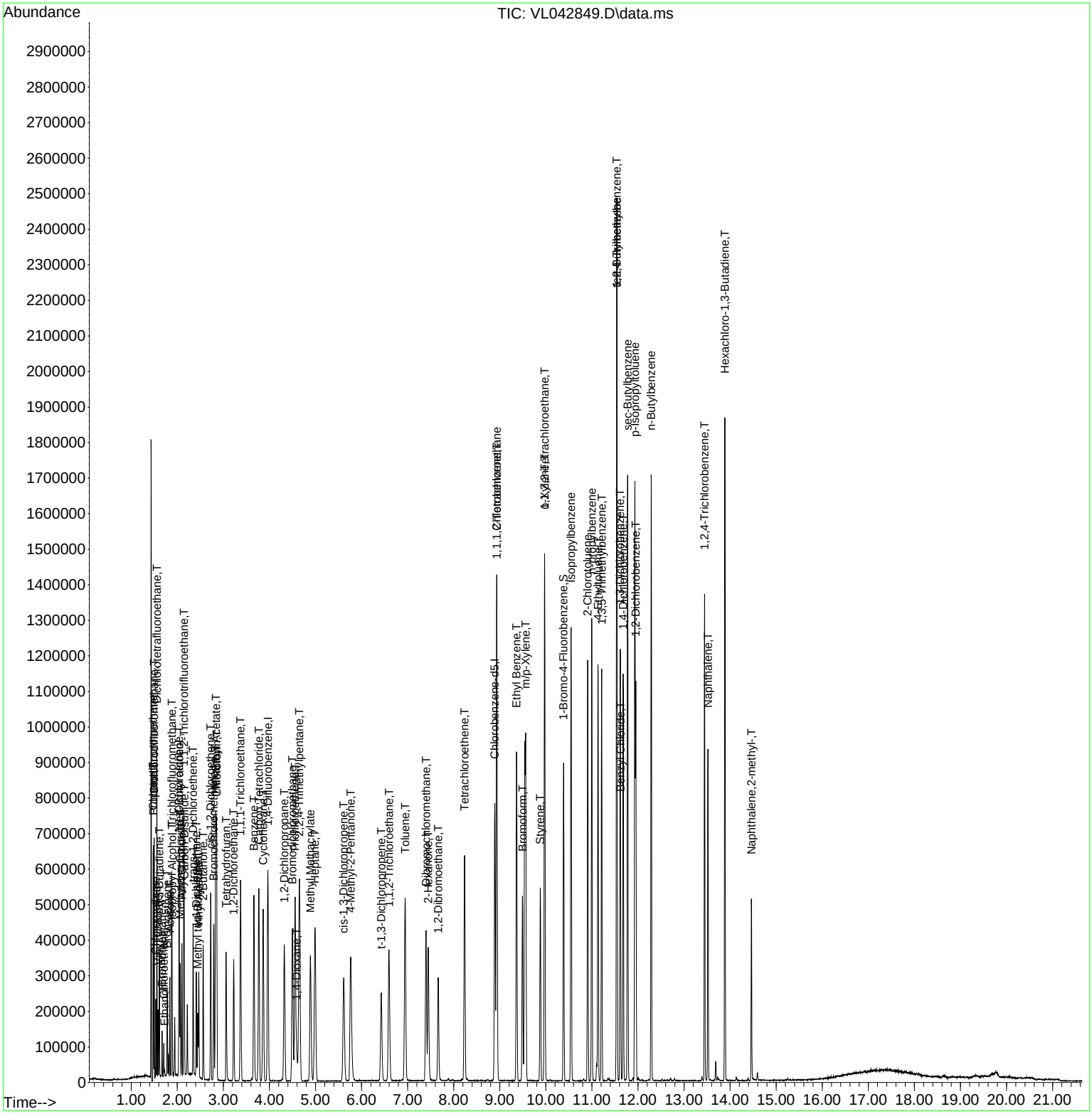
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
Data File : VL042849.D
Acq On : 13 Aug 2025 12:56
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

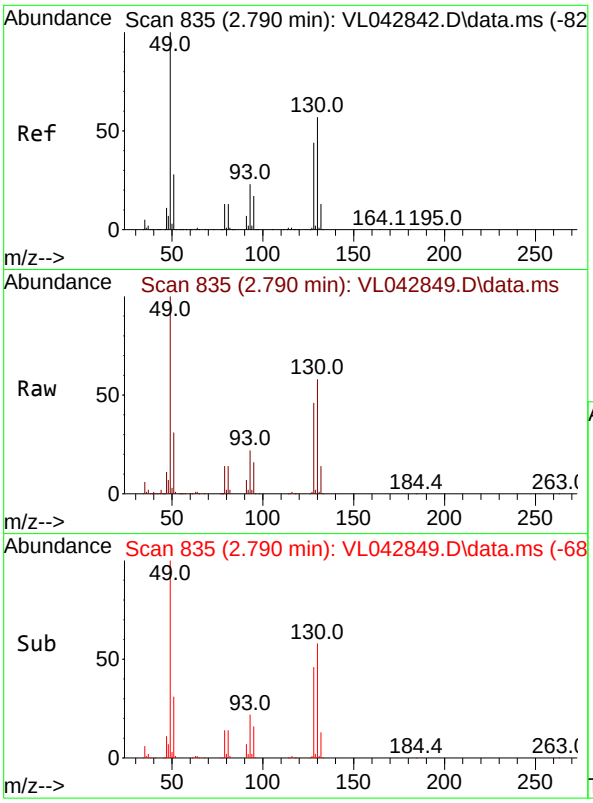
Quant Time: Aug 14 02:16:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Aug 14 02:12:54 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

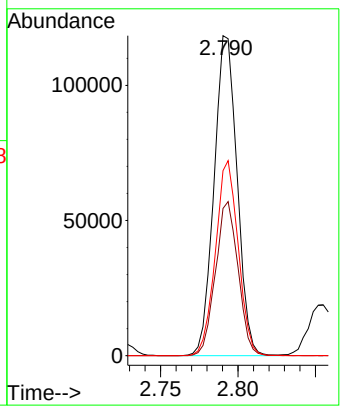




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 49 Resp: 12248

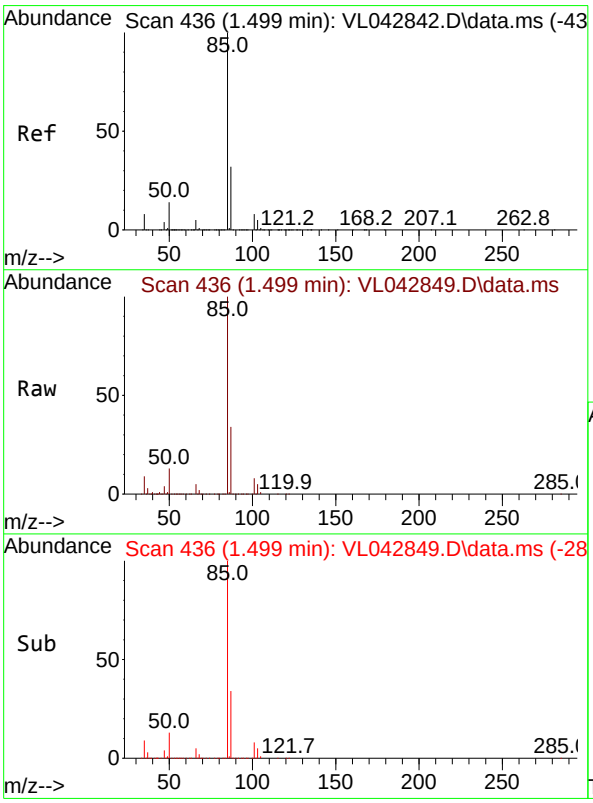
Ion	Ratio	Lower	Upper
49	100		
128	47.2	23.7	71.1
130	60.0	30.6	91.6



Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Manual Integrations
APPROVED

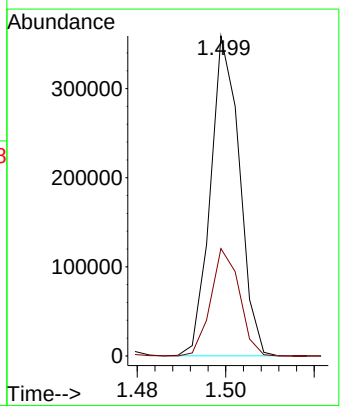
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

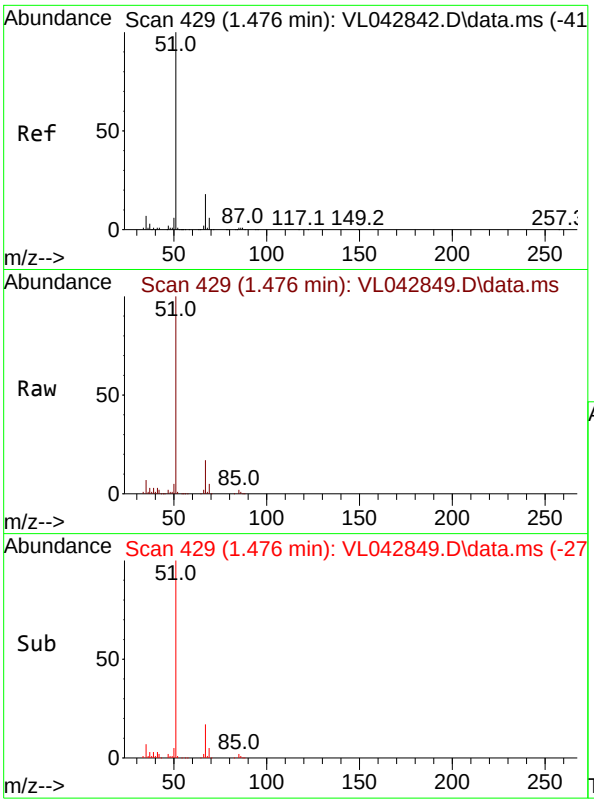


#2
Dichlorodifluoromethane
Concen: 9.105 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 85 Resp: 163446

Ion	Ratio	Lower	Upper
85	100		
87	33.6	25.3	37.9

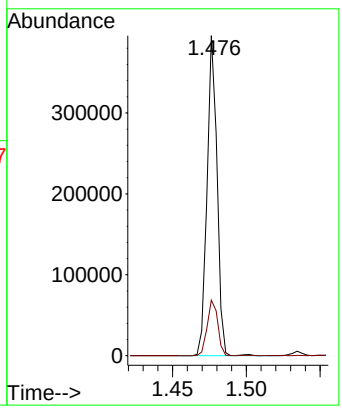




#3
Chlorodifluoromethane
Concen: 9.327 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 51 Resp: 18507

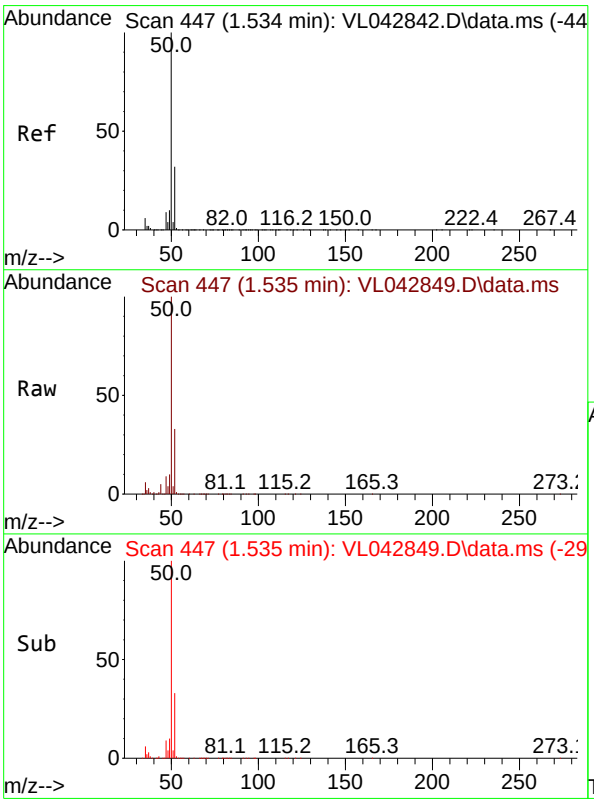
Ion	Ratio	Lower	Upper
51	100		
67	18.6	14.9	22.3



Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Manual Integrations
APPROVED

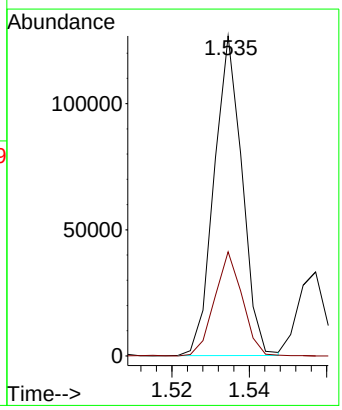
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

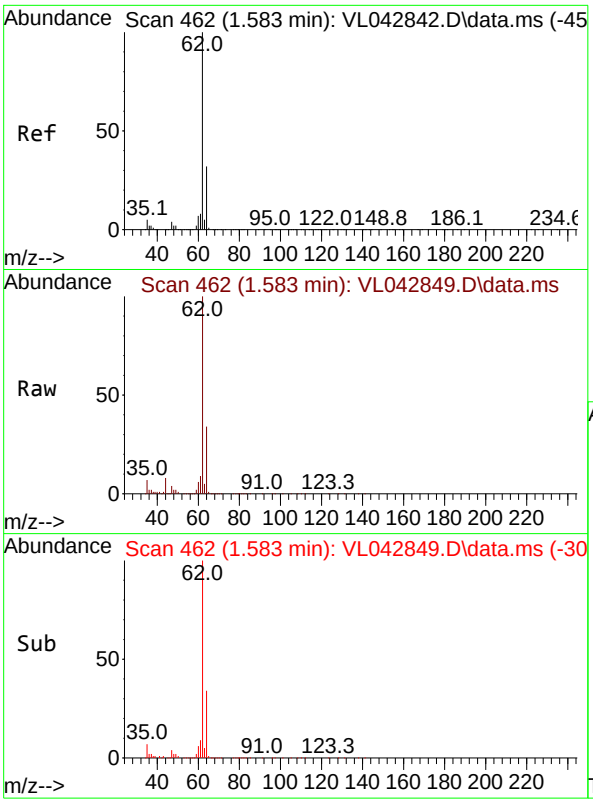


#4
Chloromethane
Concen: 8.784 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 50 Resp: 63634

Ion	Ratio	Lower	Upper
50	100		
52	32.6	25.9	38.9

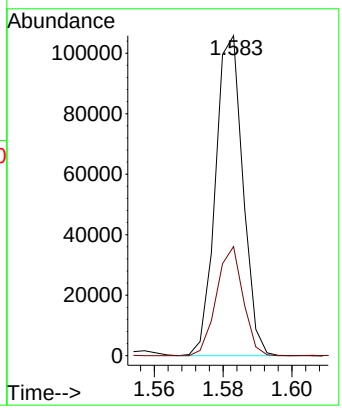




#5
Vinyl Chloride
Concen: 8.232 ppbv
RT: 1.583 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 62 Resp: 5872

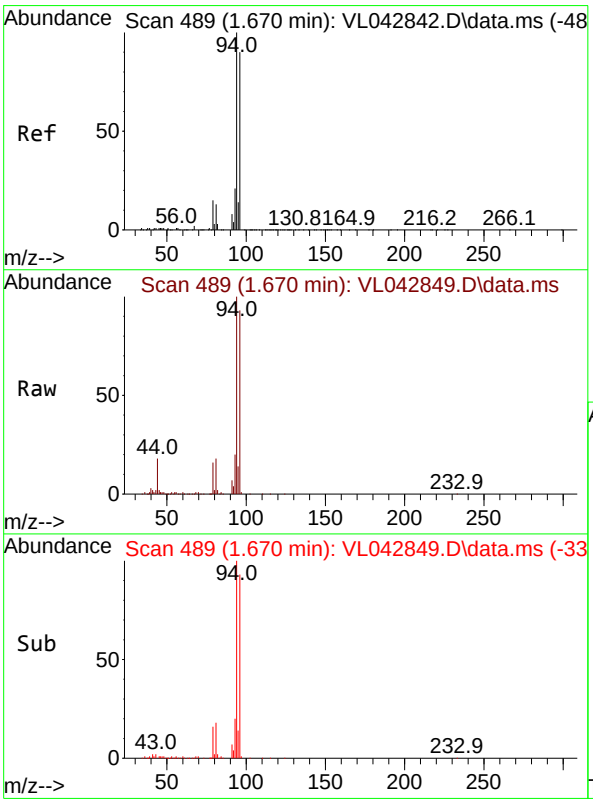
Ion	Ratio	Lower	Upper
62	100		
64	34.1	25.4	38.2



Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Manual Integrations
APPROVED

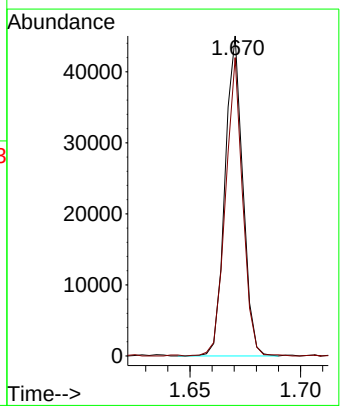
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

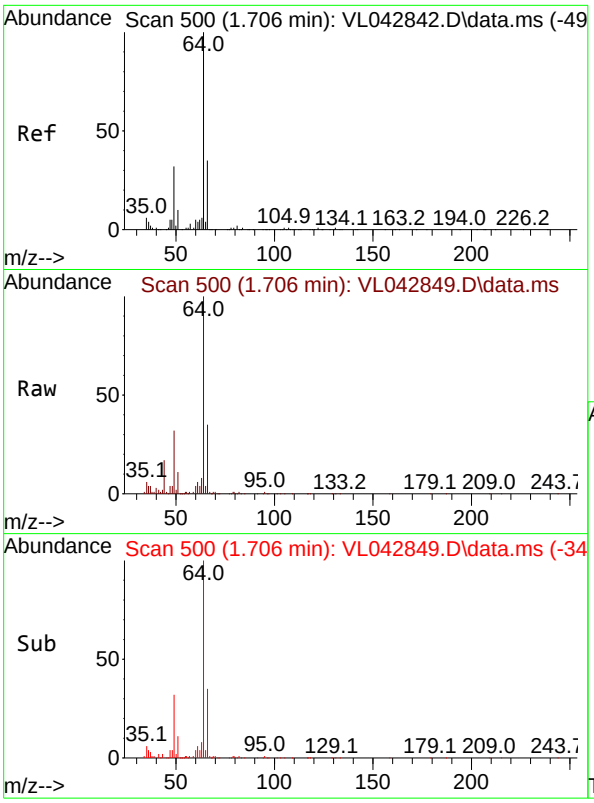


#6
Bromomethane
Concen: 8.801 ppbv
RT: 1.670 min Scan# 489
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 94 Resp: 25105

Ion	Ratio	Lower	Upper
94	100		
96	92.9	72.1	108.1

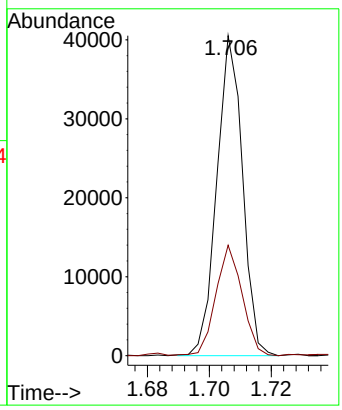




#7
Chloroethane
Concen: 8.360 ppbv
RT: 1.706 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 64 Resp: 2329

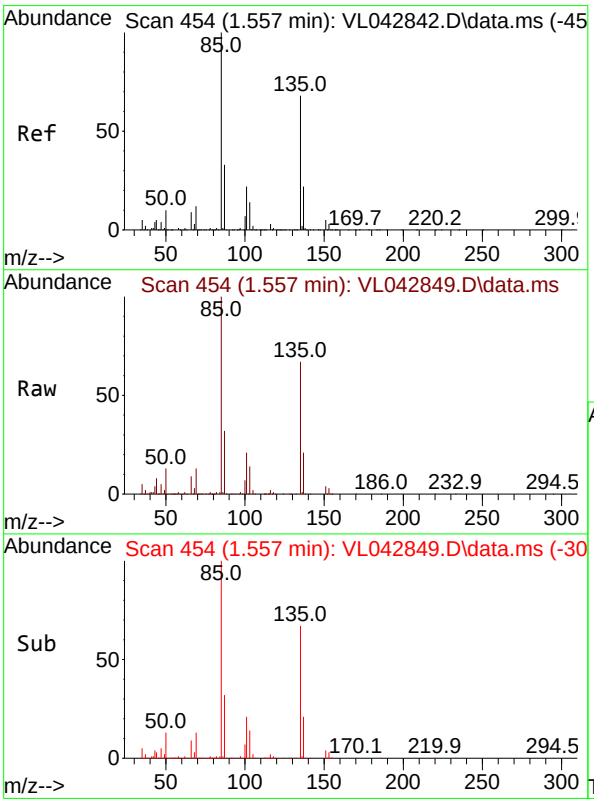
Ion	Ratio	Lower	Upper
64	100		
66	34.5	28.6	42.8



Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Manual Integrations
APPROVED

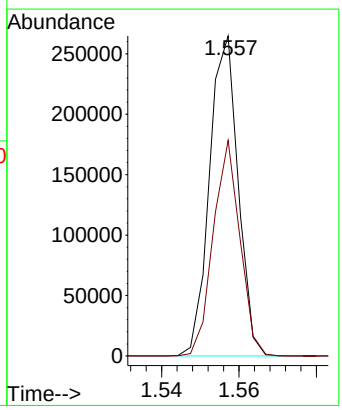
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

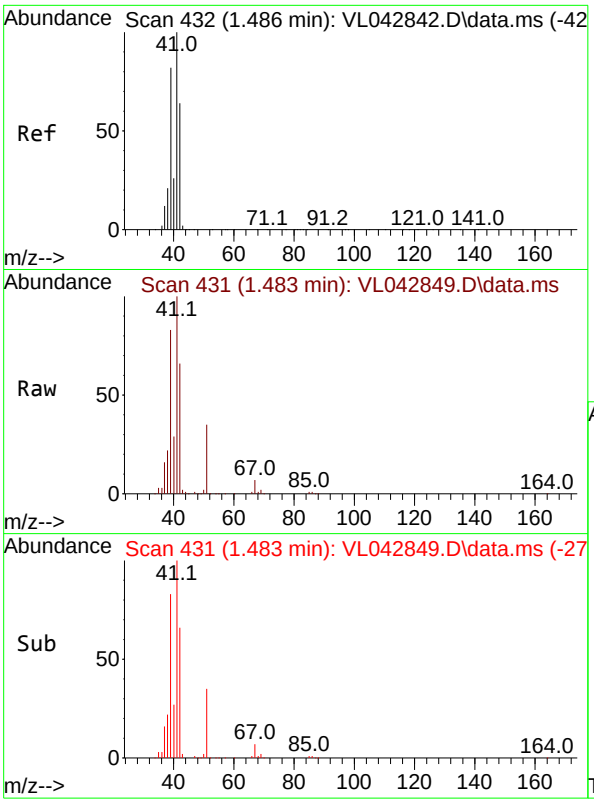


#8
Dichlorotetrafluoroethane
Concen: 9.248 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 85 Resp: 135845

Ion	Ratio	Lower	Upper
85	100		
135	62.9	51.2	76.8

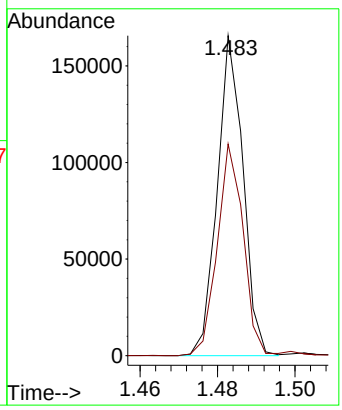




#9
Propene
Concen: 8.922 ppbv
RT: 1.483 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 41 Resp: 7645

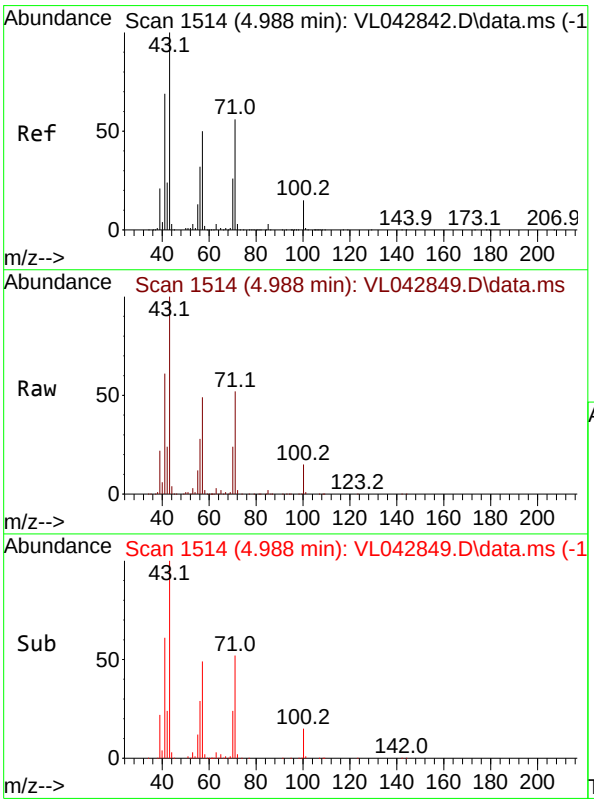
Ion	Ratio	Lower	Upper
41	100		
42	68.4	53.0	79.4



Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Manual Integrations
APPROVED

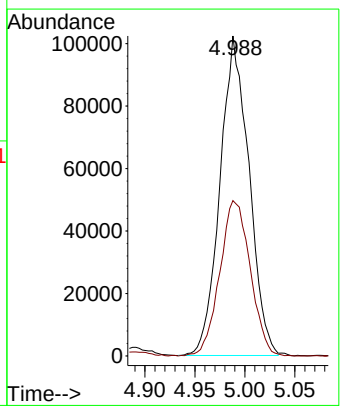
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

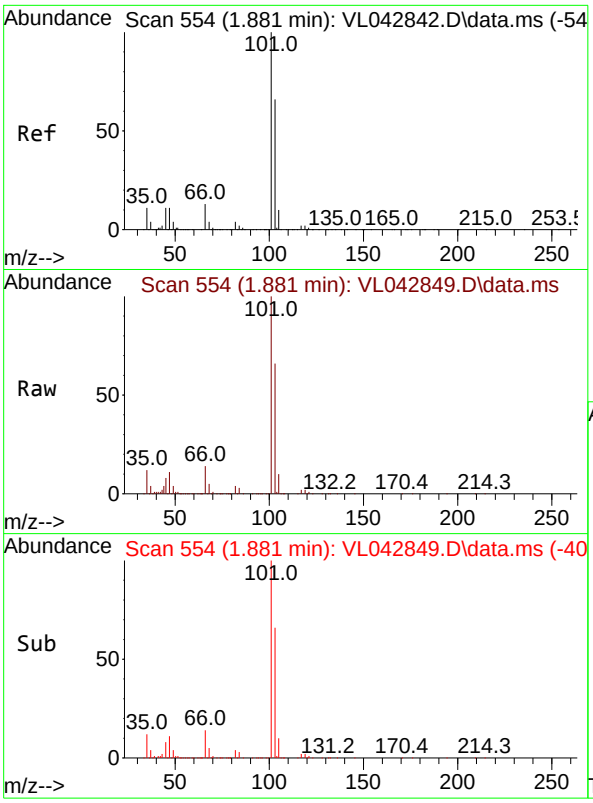


#10
Heptane
Concen: 8.990 ppbv
RT: 4.988 min Scan# 1514
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 43 Resp: 206333

Ion	Ratio	Lower	Upper
43	100		
57	51.2	41.4	62.0

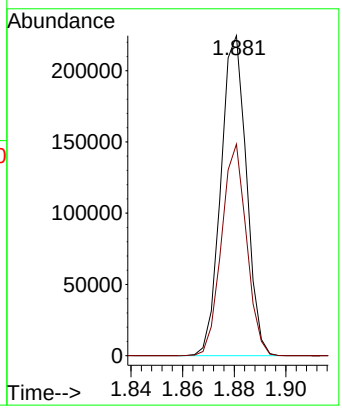




#11
Trichlorofluoromethane
Concen: 8.707 ppbv
RT: 1.881 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion:101 Resp: 15421

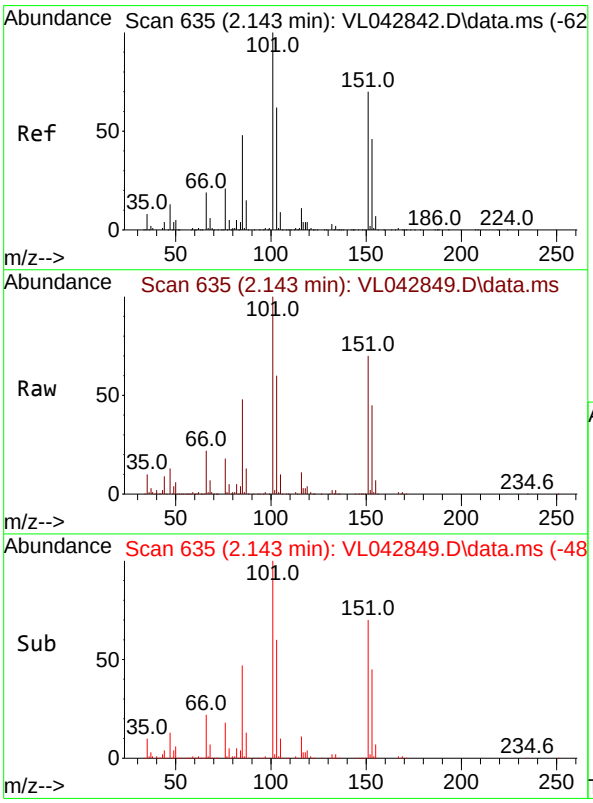
Ion	Ratio	Lower	Upper
101	100		
103	66.1	52.5	78.7



Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Manual Integrations
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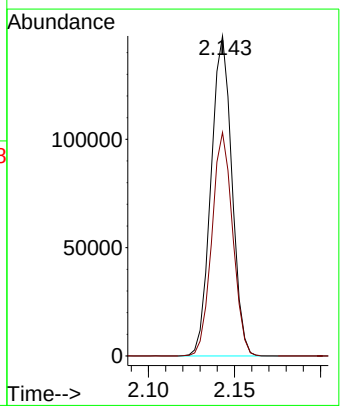
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

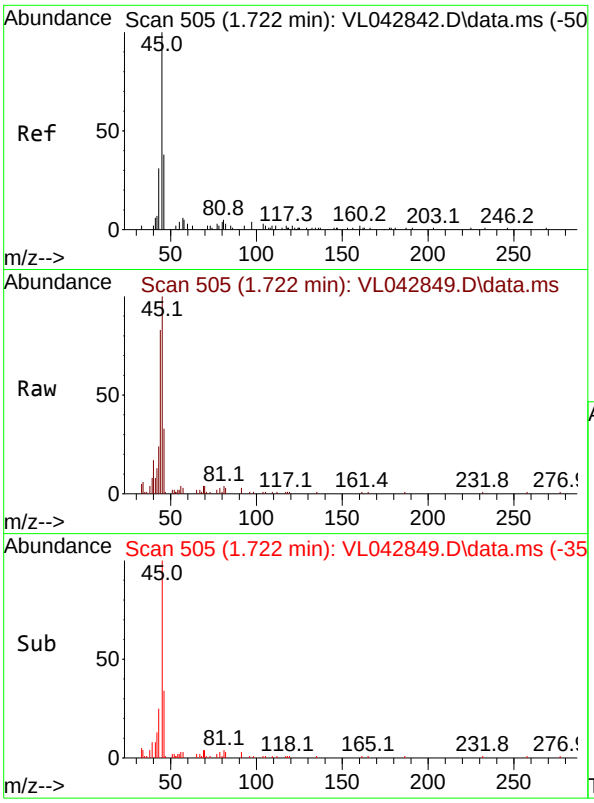


#12
1,1,2-Trichlorotrifluoroethane
Concen: 8.824 ppbv
RT: 2.143 min Scan# 635
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion:101 Resp: 124558

Ion	Ratio	Lower	Upper
101	100		
151	69.7	56.4	84.6

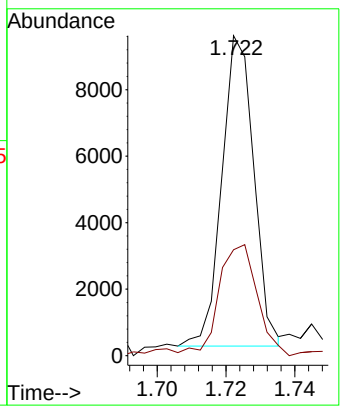




#13
Ethanol
Concen: 7.678 ppbv
RT: 1.722 min Scan# 5(
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 45 Resp: 601(

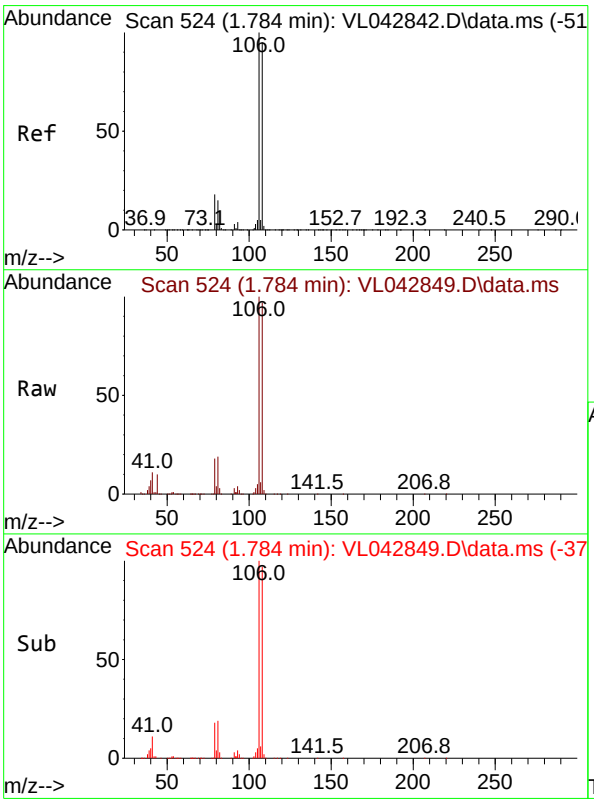
Ion	Ratio	Lower	Upper
45	100		
46	46.2	17.5	69.9



Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Manual Integrations
APPROVED

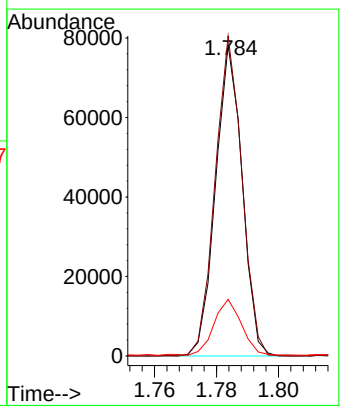
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

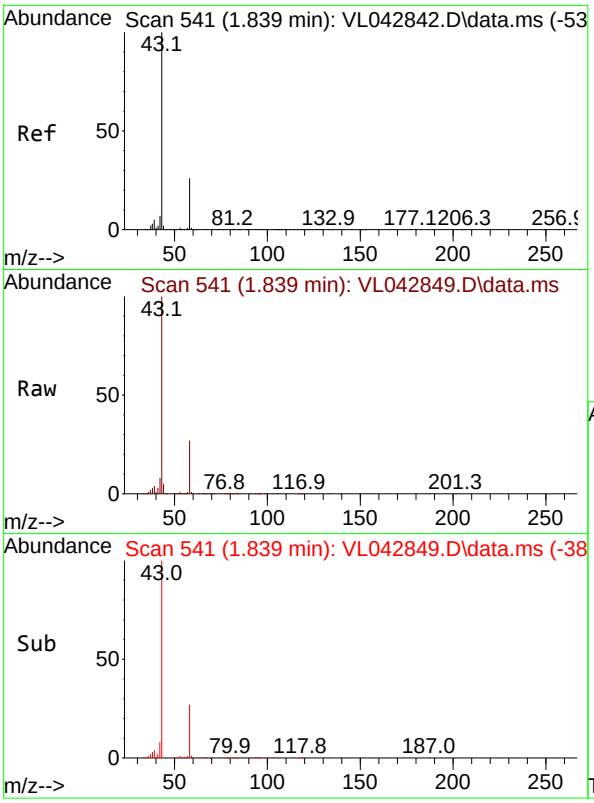


#14
Bromoethene
Concen: 9.105 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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

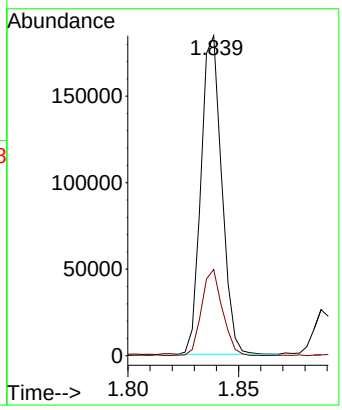




#15
Acetone
Concen: 7.389 ppbv
RT: 1.839 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 43 Resp: 11972

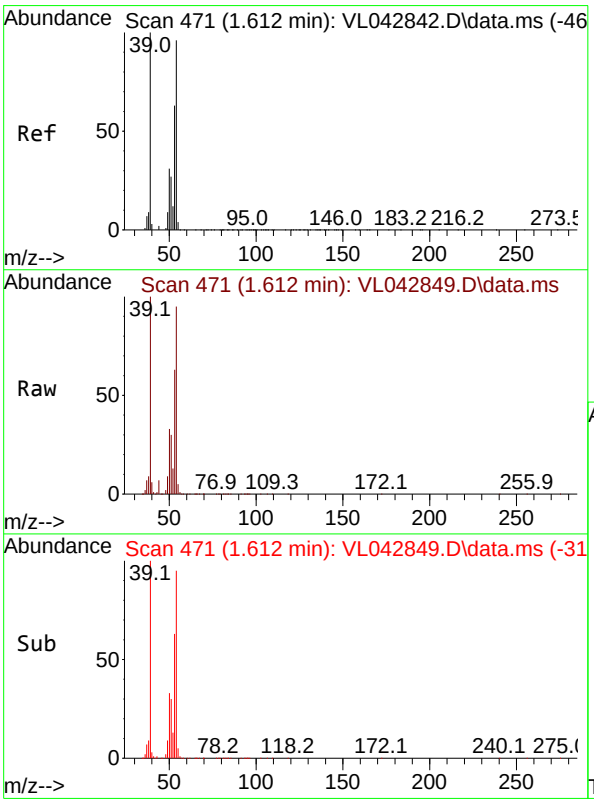
Ion	Ratio	Lower	Upper
43	100		
58	27.6	22.4	33.6



Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Manual Integrations
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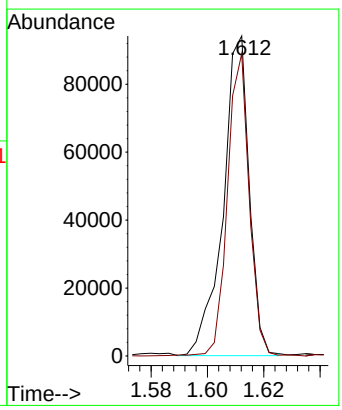
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

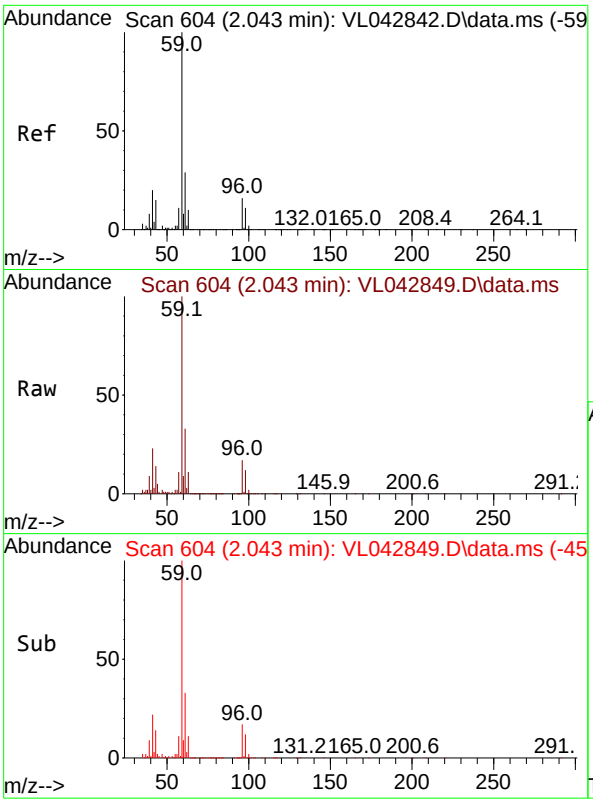


#16
1,3-Butadiene
Concen: 8.285 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 39 Resp: 60853

Ion	Ratio	Lower	Upper
39	100		
54	78.9	63.6	95.4

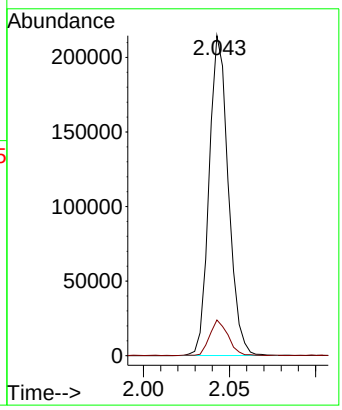




#17
tert-Butyl alcohol
Concen: 8.663 ppbv
RT: 2.043 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 59 Resp: 16645

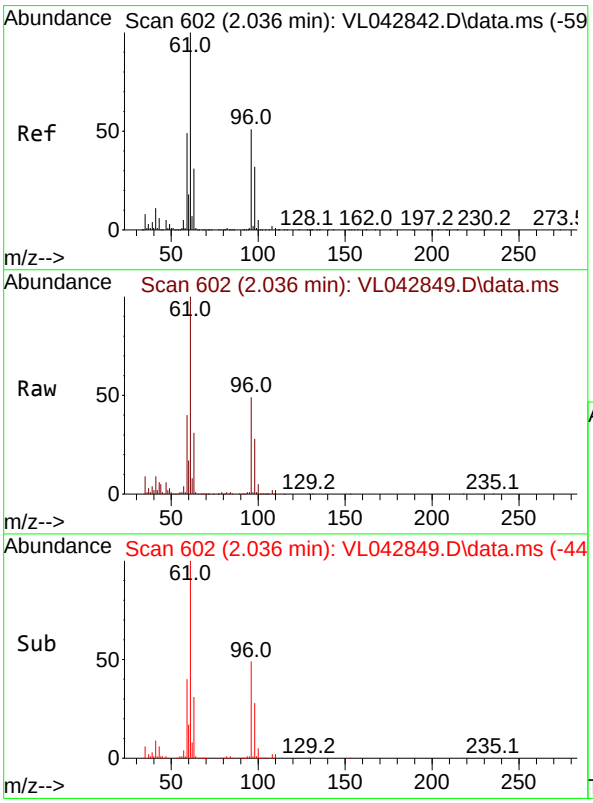
Ion	Ratio	Lower	Upper
59	100		
57	10.7	9.0	13.4



Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Manual Integrations
APPROVED

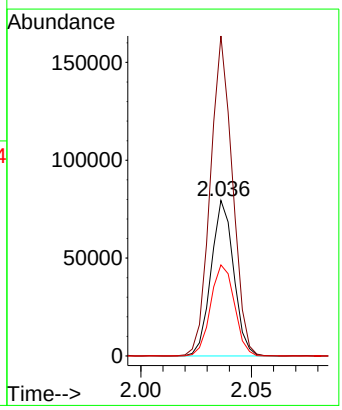
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

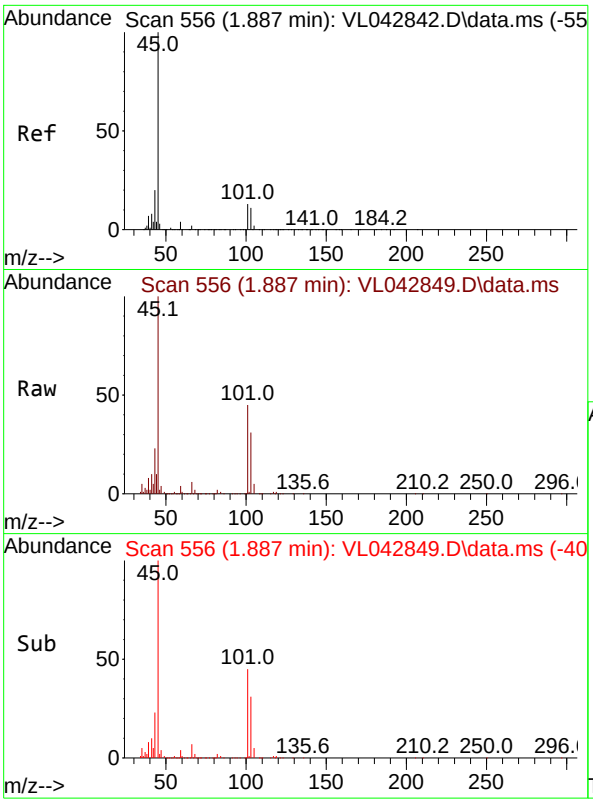


#18
1,1-Dichloroethene
Concen: 9.087 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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

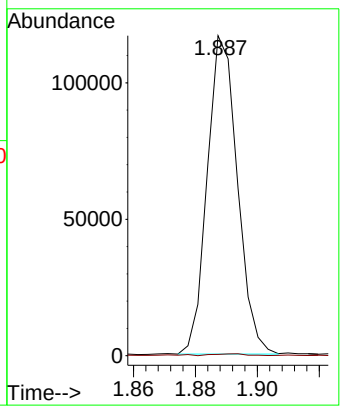




#19
Isopropyl Alcohol
Concen: 8.146 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 45 Resp: 7883

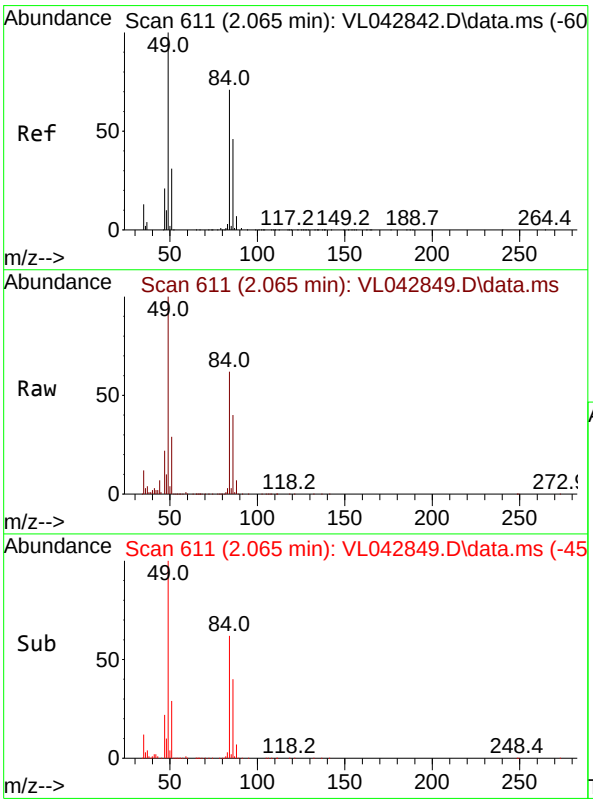
Ion	Ratio	Lower	Upper
45	100		
58	42.0	32.7	49.1



Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Manual Integrations
APPROVED

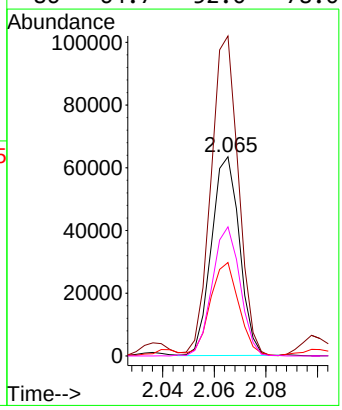
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

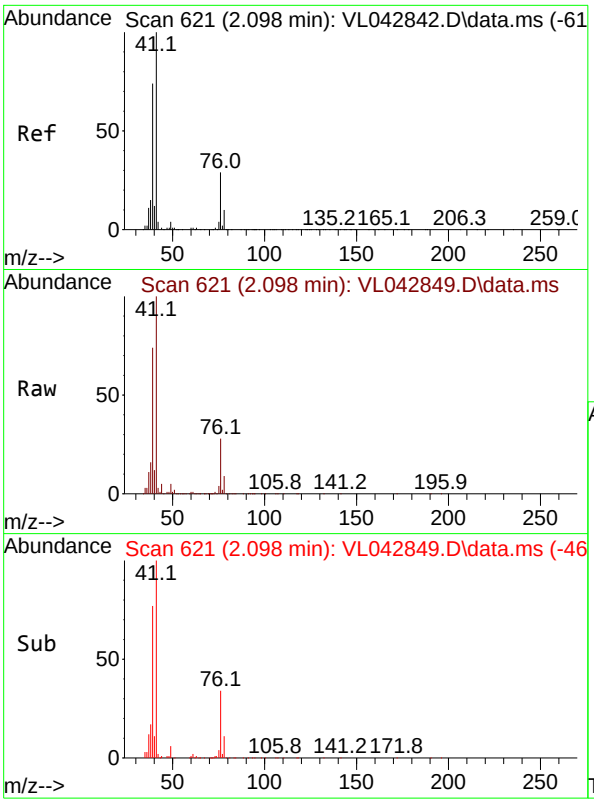


#20
Methylene Chloride
Concen: 7.041 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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

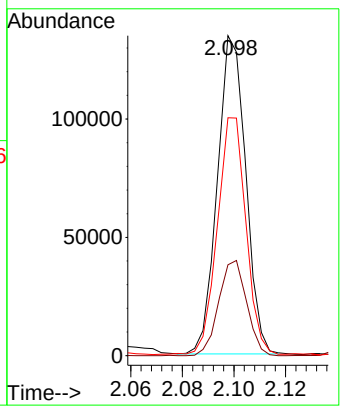




#21
Allyl Chloride
Concen: 8.956 ppbv
RT: 2.098 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 41 Resp: 10251

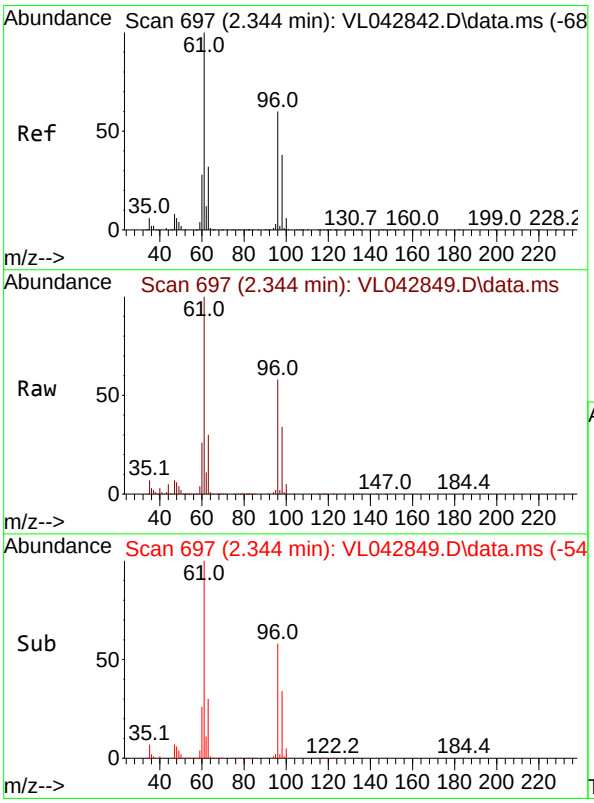
Ion	Ratio	Lower	Upper
41	100		
76	29.5	23.9	35.9
39	76.1	57.8	86.6



Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Manual Integrations
APPROVED

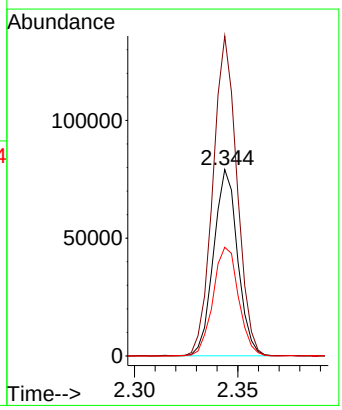
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

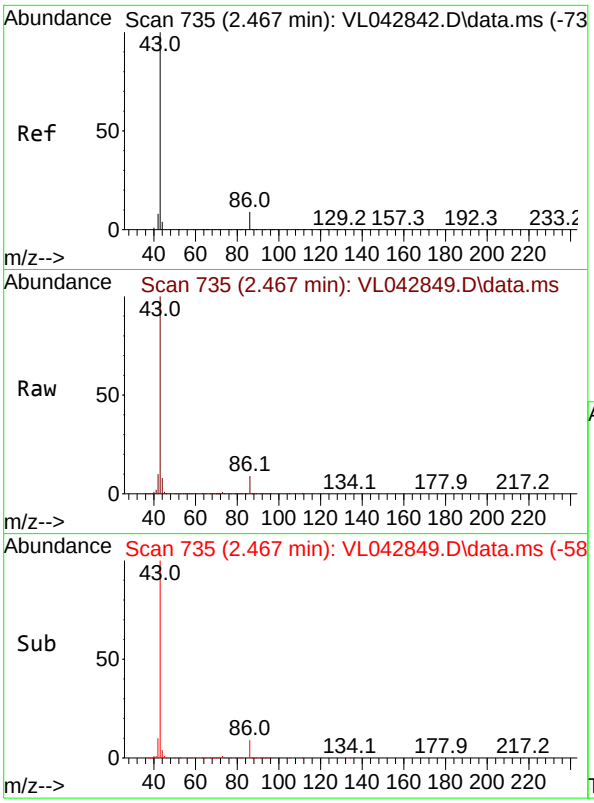


#22
trans-1,2-Dichloroethene
Concen: 8.904 ppbv
RT: 2.344 min Scan# 697
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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

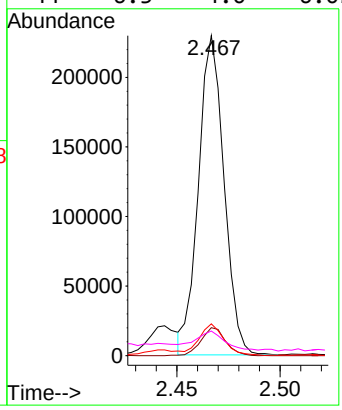




#23
Vinyl Acetate
Concen: 8.891 ppbv
RT: 2.467 min Scan# 7
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 43 Resp: 19808

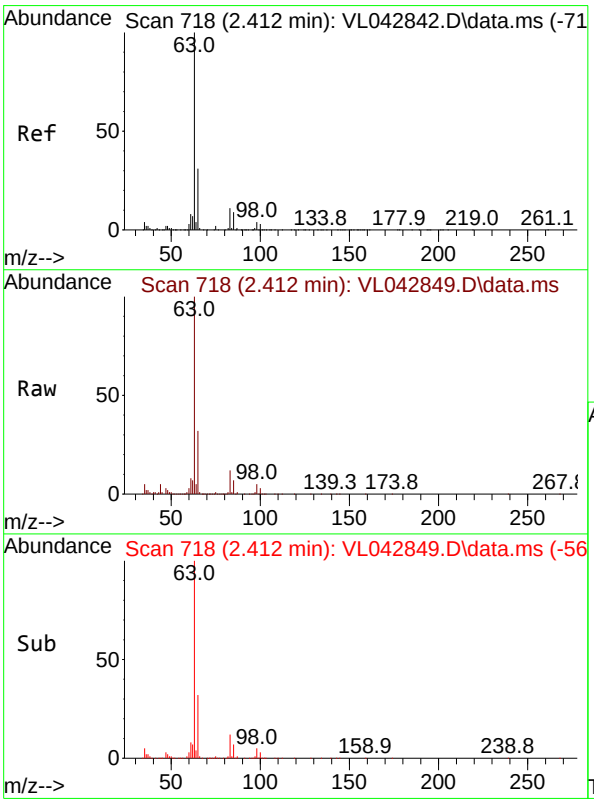
Ion	Ratio	Lower	Upper
43	100		
86	8.8	6.6	9.8
42	9.8	7.0	10.6
44	6.3	4.0	6.0#



Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Manual Integrations
APPROVED

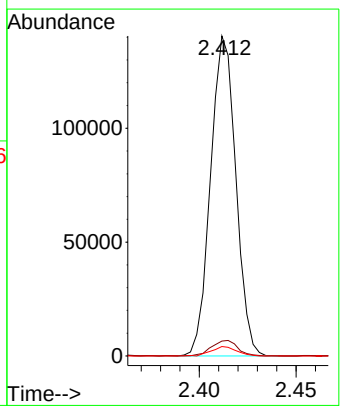
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

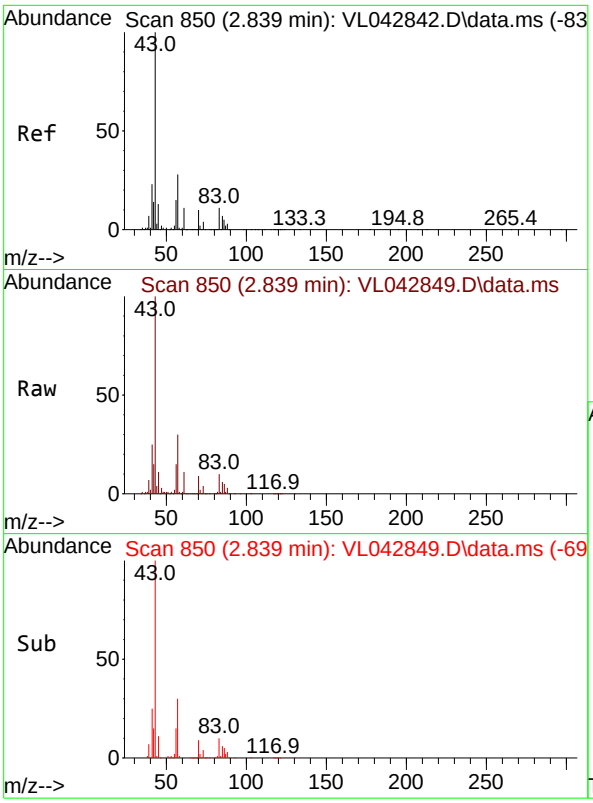


#24
1,1-Dichloroethane
Concen: 8.903 ppbv
RT: 2.412 min Scan# 718
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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

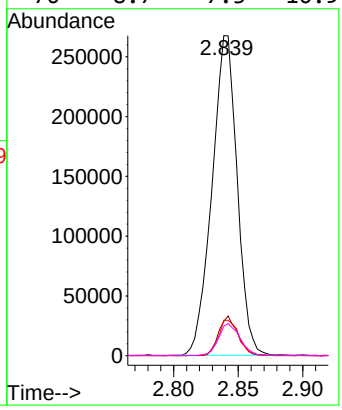




#25
Ethyl Acetate
Concen: 9.240 ppbv
RT: 2.839 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 43 Resp: 36232

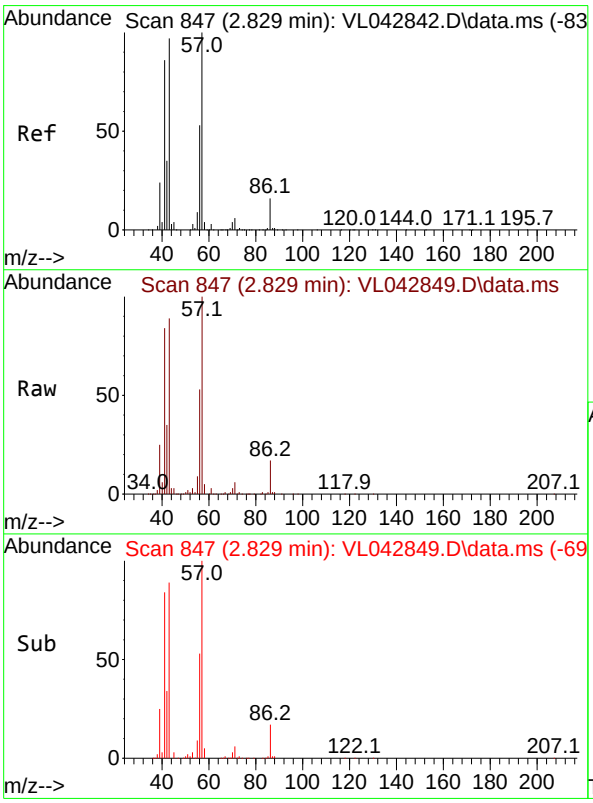
Ion	Ratio	Lower	Upper
43	100		
45	9.5	8.1	12.1
61	9.1	7.4	11.2
70	8.7	7.3	10.9



Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Manual Integrations
APPROVED

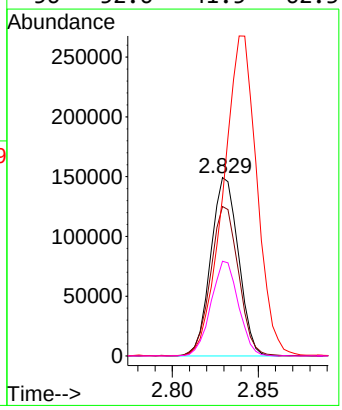
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

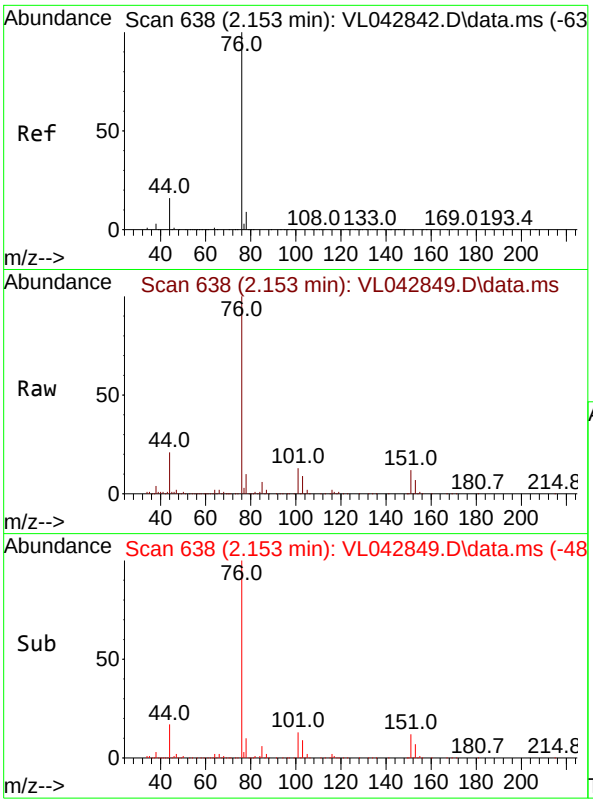


#26
Hexane
Concen: 9.246 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 57 Resp: 167364

Ion	Ratio	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

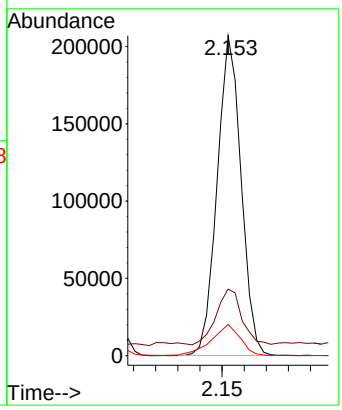




#27
Carbon Disulfide
Concen: 8.841 ppbv
RT: 2.153 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 76 Resp: 15572

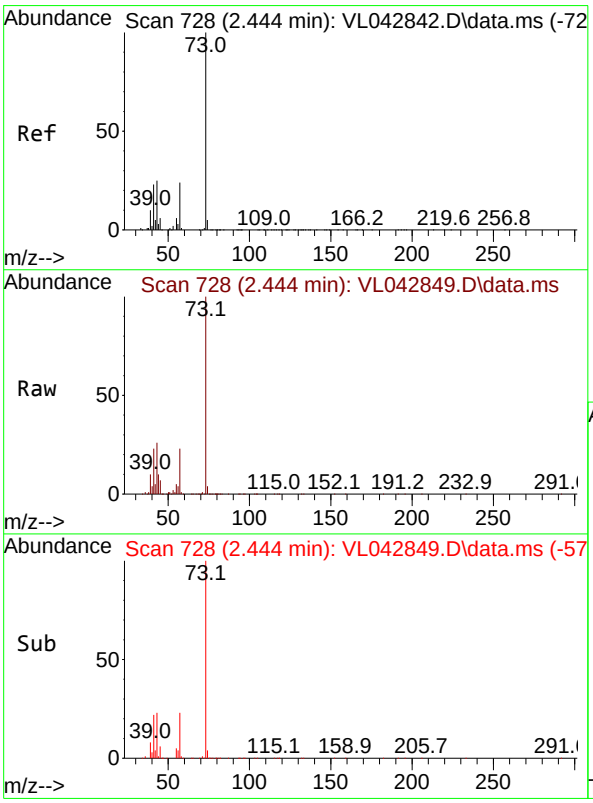
Ion	Ratio	Lower	Upper
76	100		
44	19.2	15.9	23.9
78	11.9	9.5	14.3



Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Manual Integrations
APPROVED

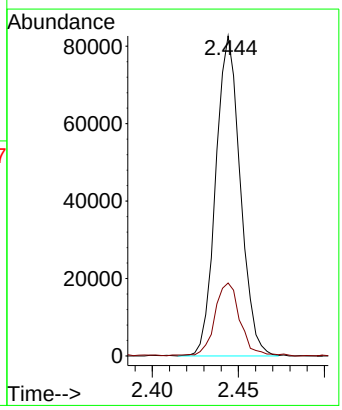
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

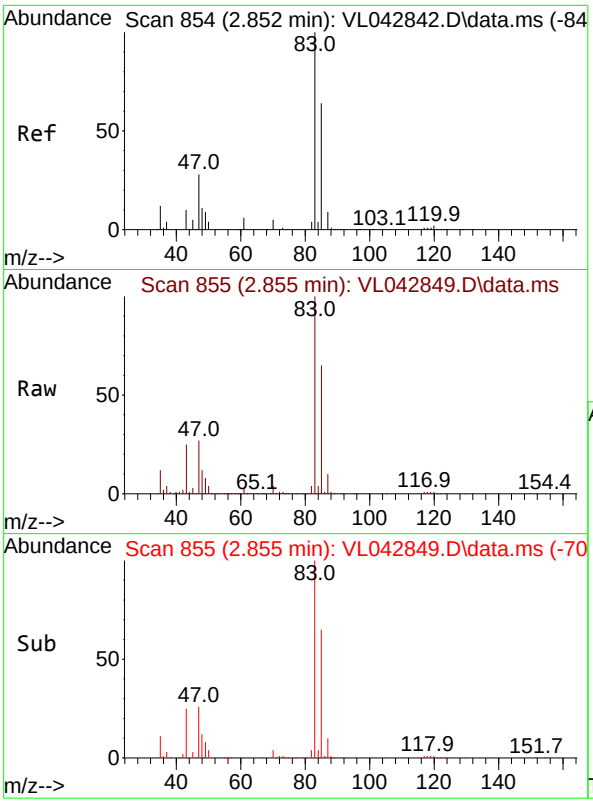


#28
Methyl tert-Butyl Ether
Concen: 8.898 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 73 Resp: 82126

Ion	Ratio	Lower	Upper
73	100		
57	22.9	21.6	32.4

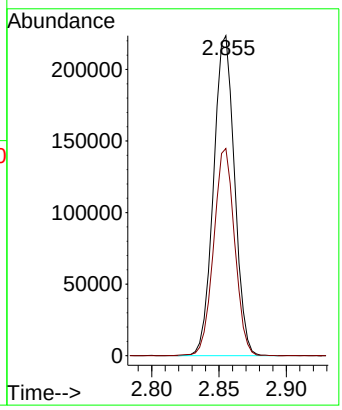




#29
Chloroform
Concen: 9.377 ppbv
RT: 2.855 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 83 Resp: 24232

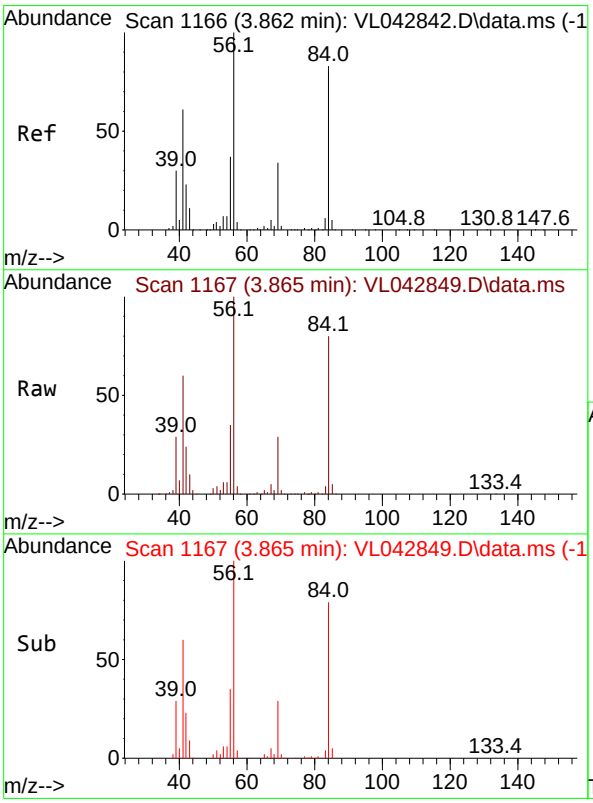
Ion	Ratio	Lower	Upper
83	100		
85	64.8	51.1	76.7



Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Manual Integrations
APPROVED

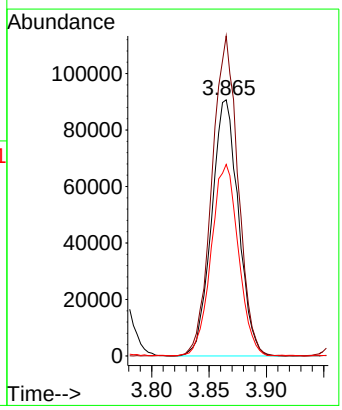
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

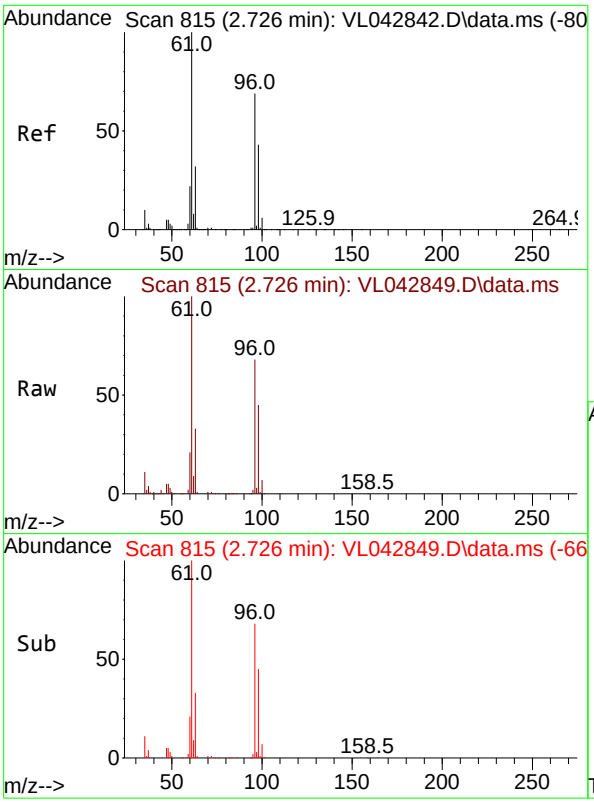


#30
Cyclohexane
Concen: 9.289 ppbv
RT: 3.865 min Scan# 1167
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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

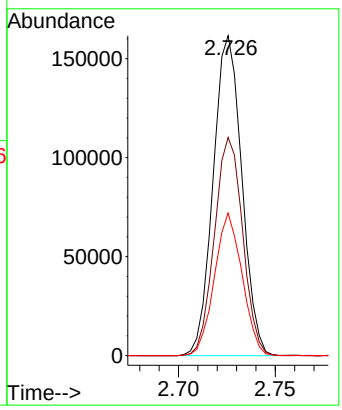




#31
cis-1,2-Dichloroethene
Concen: 9.196 ppbv
RT: 2.726 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 61 Resp: 16626

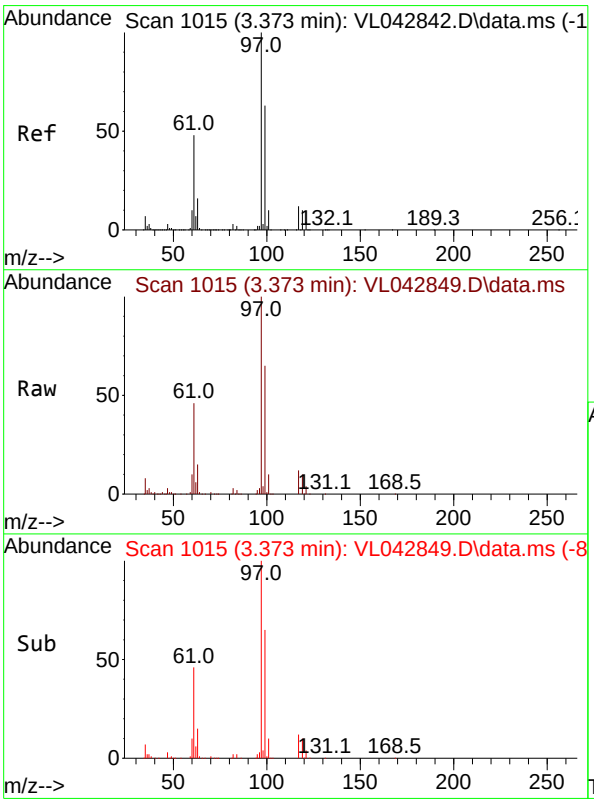
Ion	Ratio	Lower	Upper
61	100		
96	68.2	55.0	82.6
98	44.5	34.3	51.5



Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Manual Integrations
APPROVED

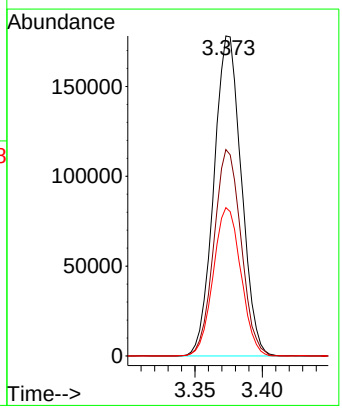
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

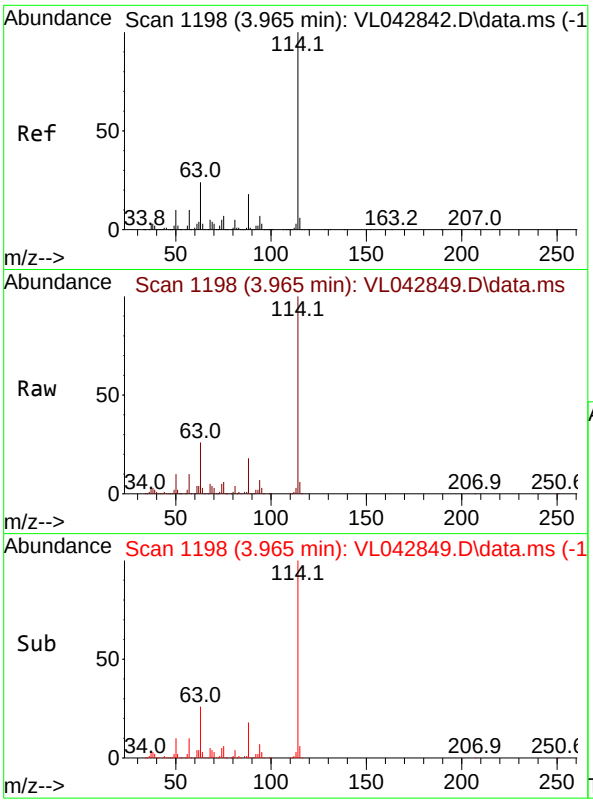


#32
1,1,1-Trichloroethane
Concen: 9.256 ppbv
RT: 3.373 min Scan# 1015
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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

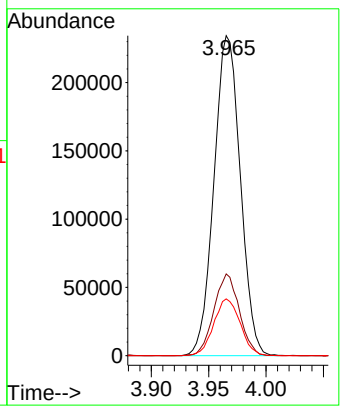




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion:114 Resp: 37444

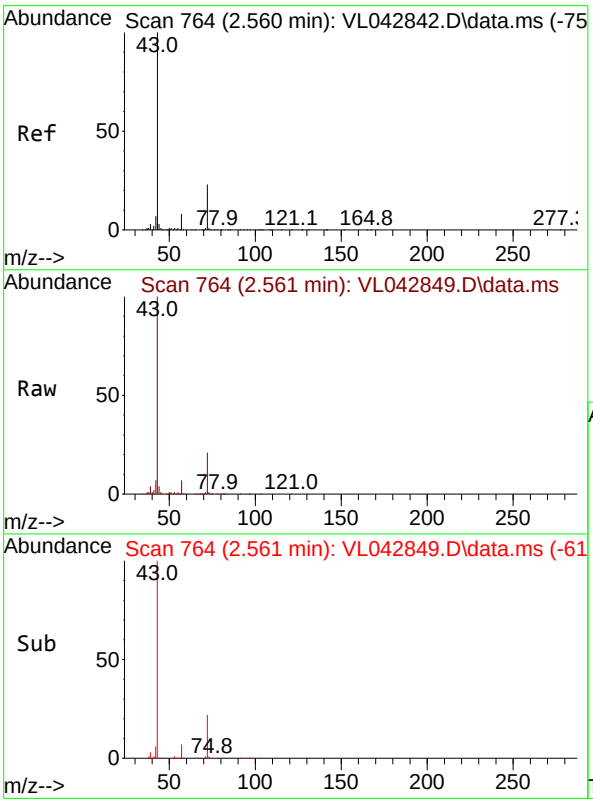
Ion	Ratio	Lower	Upper
114	100		
63	24.6	19.7	29.5
88	17.9	14.4	21.6



Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Manual Integrations
APPROVED

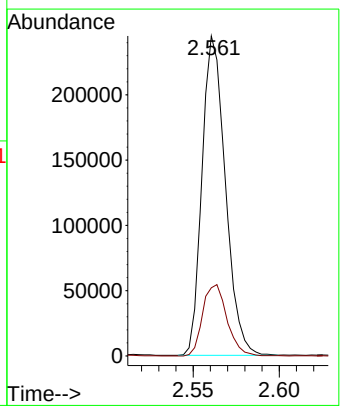
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

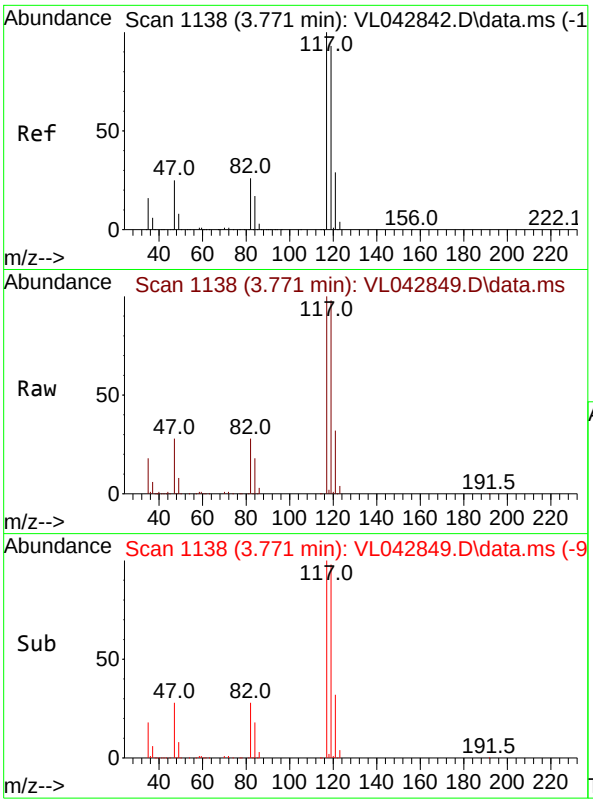


#34
2-Butanone
Concen: 9.135 ppbv
RT: 2.561 min Scan# 764
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 43 Resp: 230961

Ion	Ratio	Lower	Upper
43	100		
72	23.4	18.6	28.0

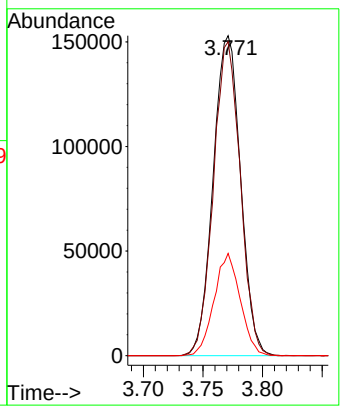




#35
Carbon Tetrachloride
Concen: 9.478 ppbv
RT: 3.771 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion:117 Resp: 24467

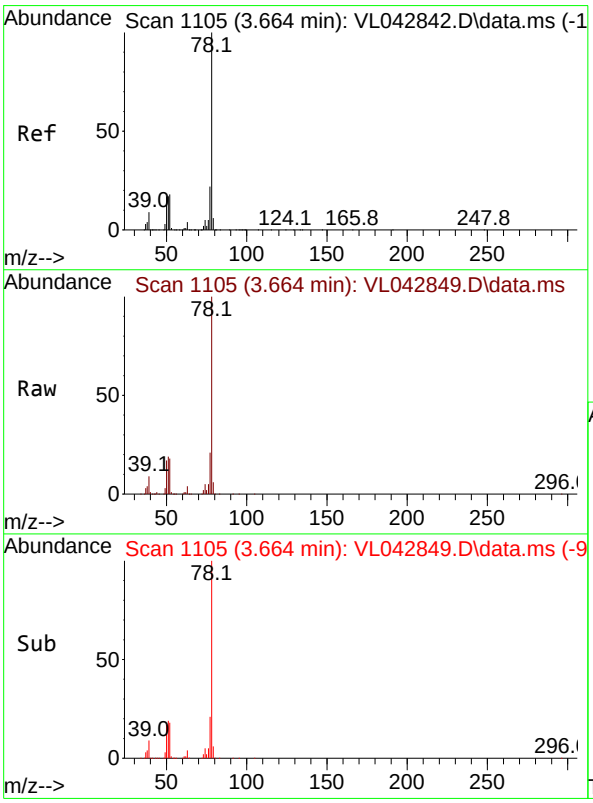
Ion	Ratio	Lower	Upper
117	100		
119	98.1	74.7	112.1
121	32.0	23.2	34.8



Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Manual Integrations
APPROVED

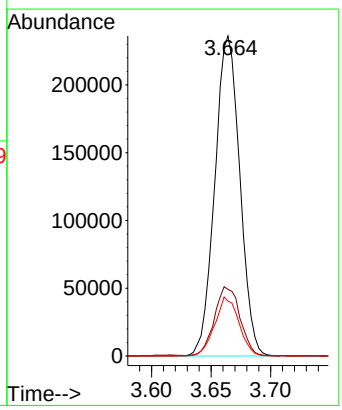
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

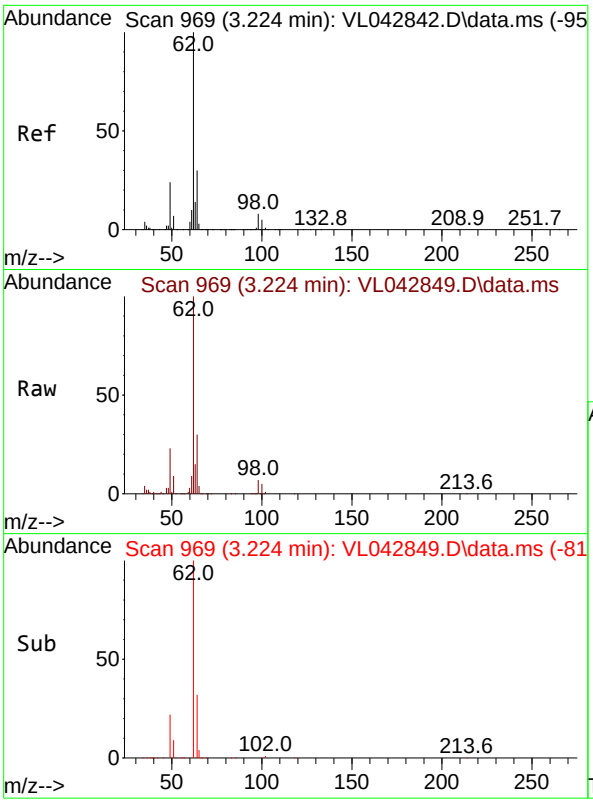


#36
Benzene
Concen: 9.592 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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

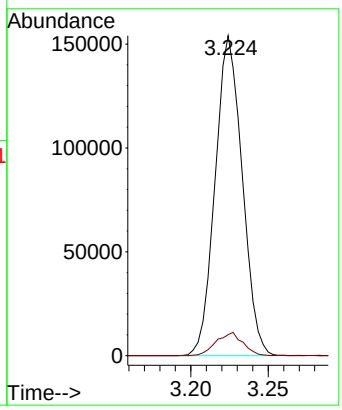




#37
1,2-Dichloroethane
Concen: 9.991 ppbv
RT: 3.224 min Scan# 9
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 62 Resp: 18716

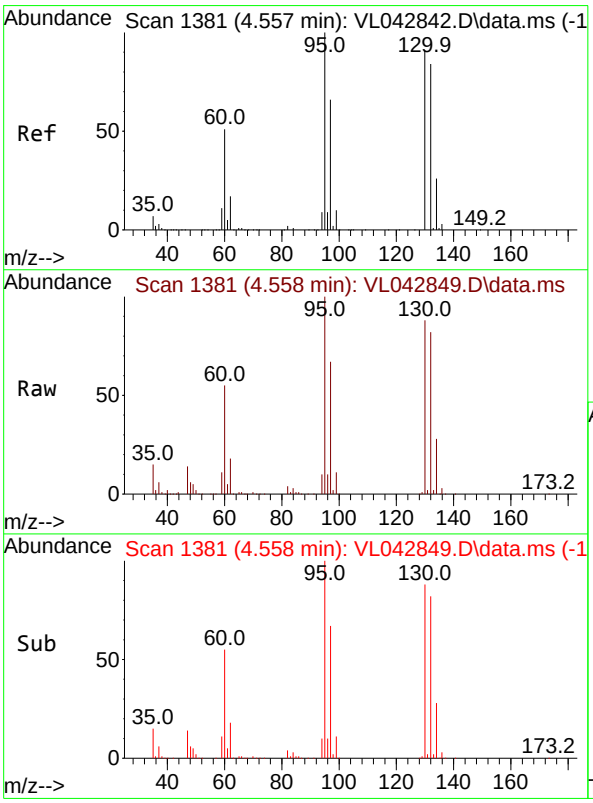
Ion	Ratio	Lower	Upper
62	100		
98	7.2	5.9	8.9



Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Manual Integrations
APPROVED

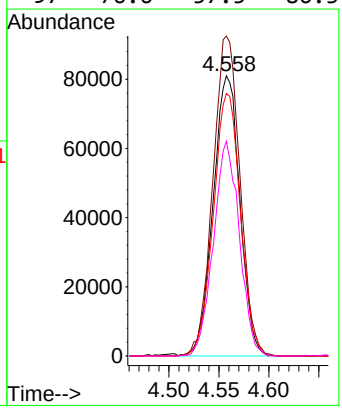
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

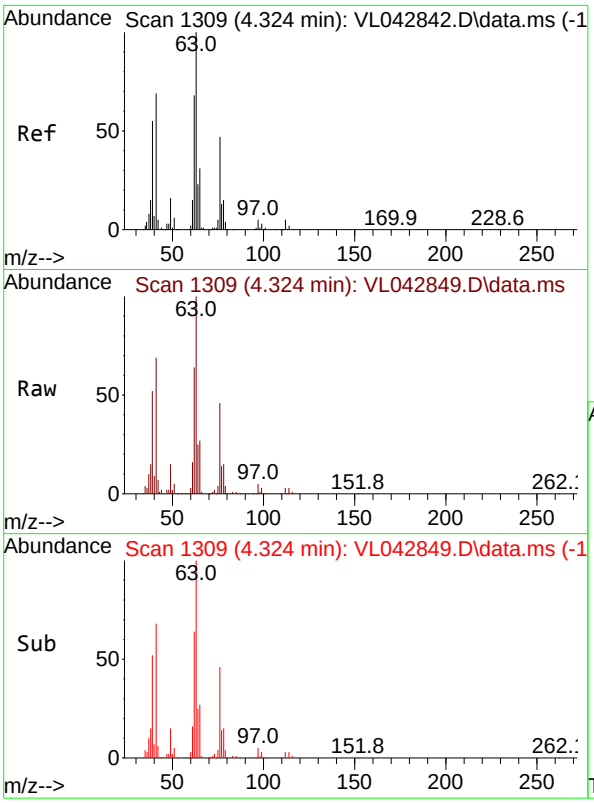


#38
Trichloroethene
Concen: 9.202 ppbv
RT: 4.558 min Scan# 1381
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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

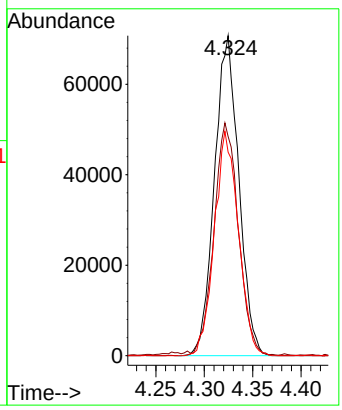




#39
1,2-Dichloropropane
Concen: 9.436 ppbv
RT: 4.324 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 63 Resp: 12356

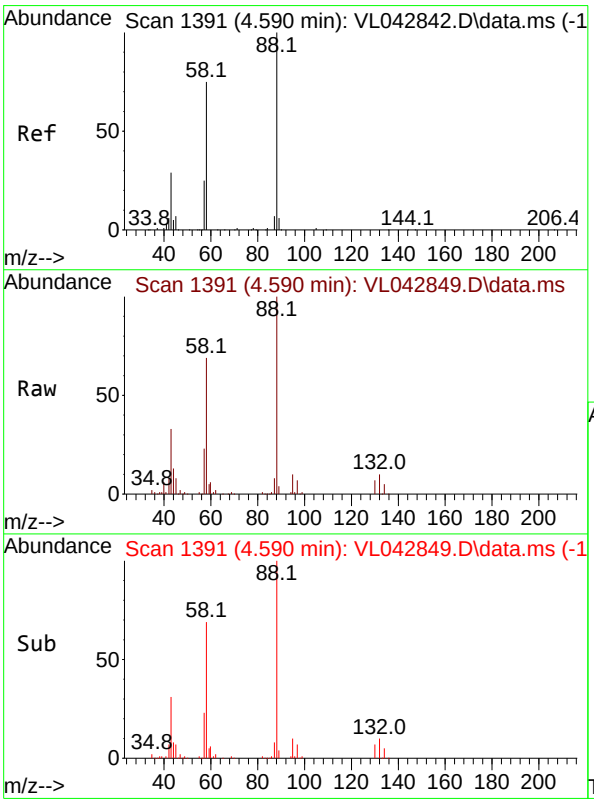
Ion	Ratio	Lower	Upper
63	100		
41	68.4	55.0	82.4
62	63.6	54.4	81.6



Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Manual Integrations
APPROVED

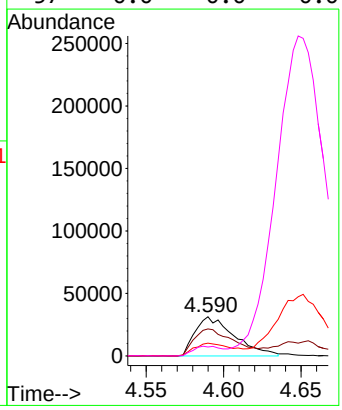
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

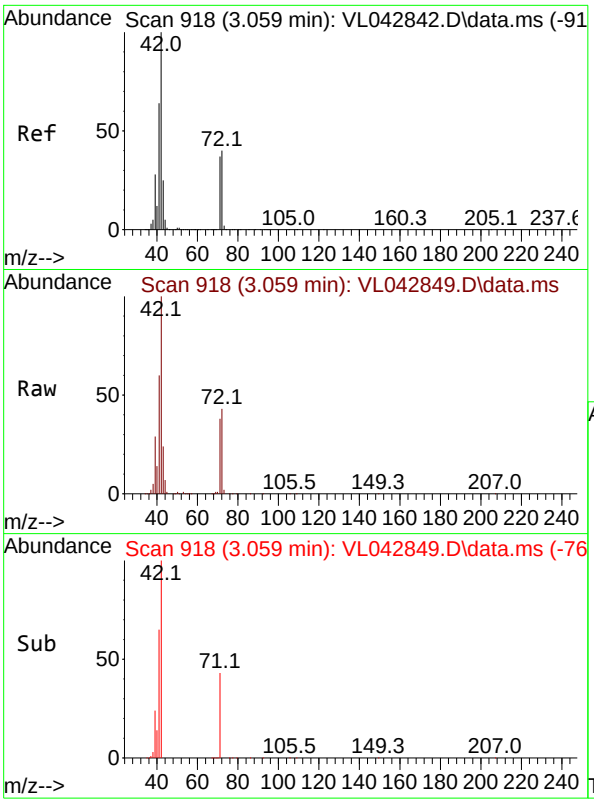


#40
1,4-Dioxane
Concen: 8.879 ppbv
RT: 4.590 min Scan# 1391
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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

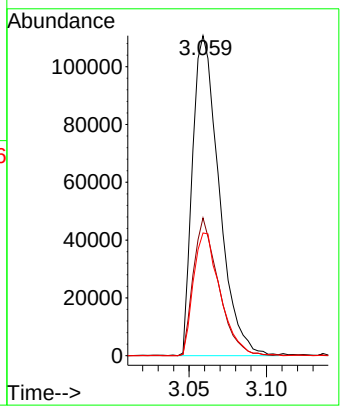




#41
Tetrahydrofuran
Concen: 9.372 ppbv
RT: 3.059 min Scan# 9
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 42 Resp: 13210

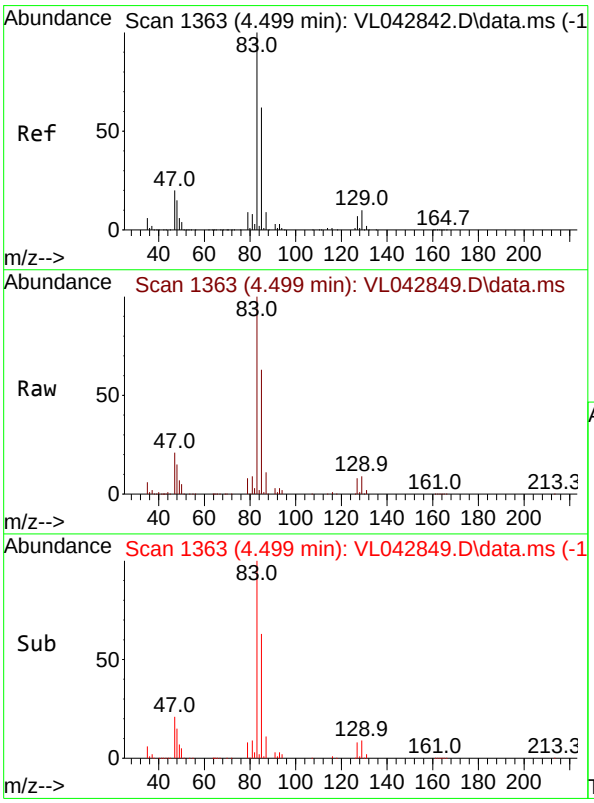
Ion	Ratio	Lower	Upper
42	100		
72	40.8	32.6	48.8
71	39.0	30.0	45.0



Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Manual Integrations
APPROVED

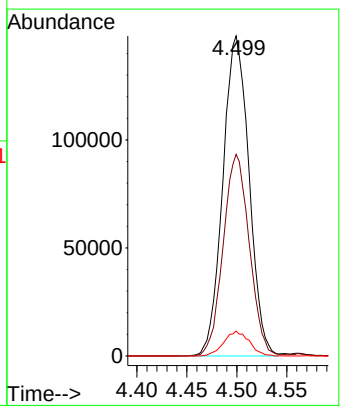
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

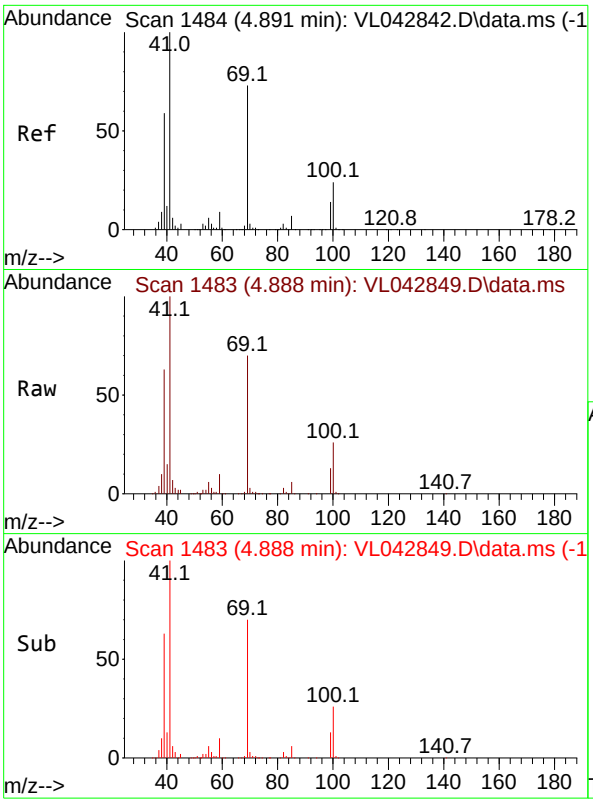


#42
Bromodichloromethane
Concen: 9.678 ppbv
RT: 4.499 min Scan# 1363
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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

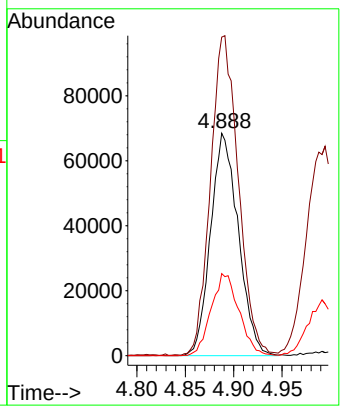




#43
Methyl Methacrylate
Concen: 9.229 ppbv
RT: 4.888 min Scan# 14
Delta R.T. -0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 69 Resp: 13632

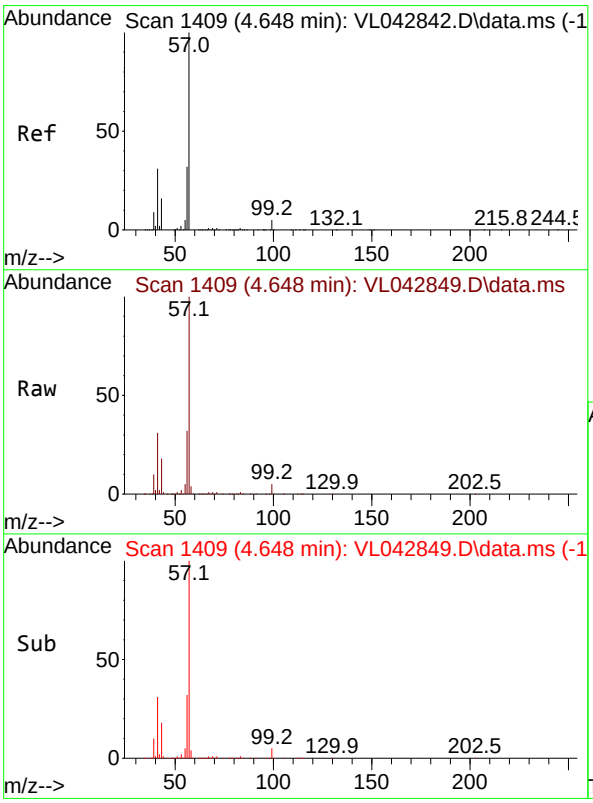
Ion	Ratio	Lower	Upper
69	100		
41	144.9	114.6	172.0
100	37.0	30.2	45.4



Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Manual Integrations
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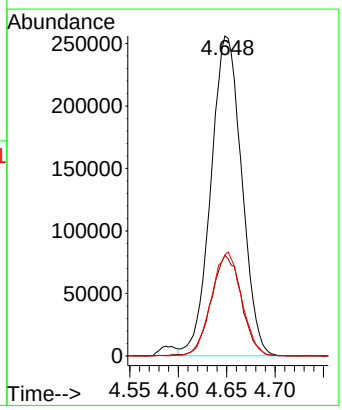
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

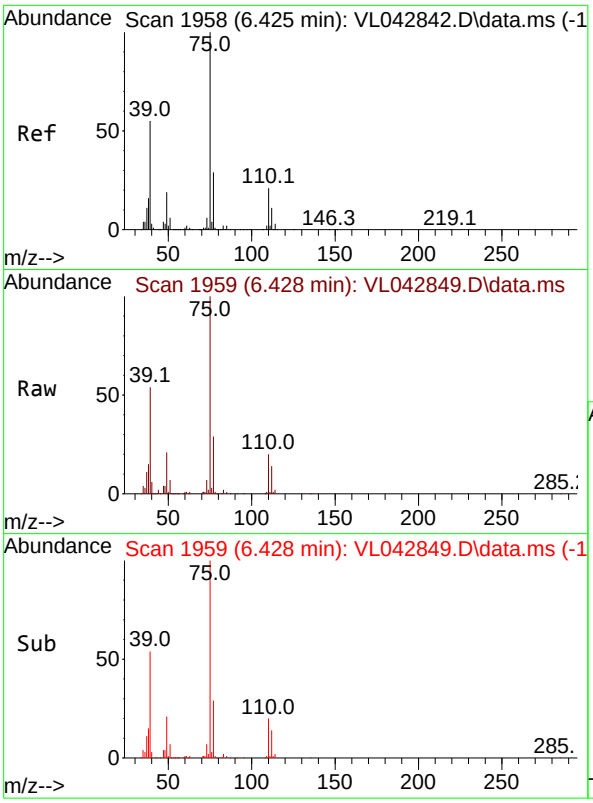


#44
2,2,4-Trimethylpentane
Concen: 9.290 ppbv
RT: 4.648 min Scan# 1409
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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

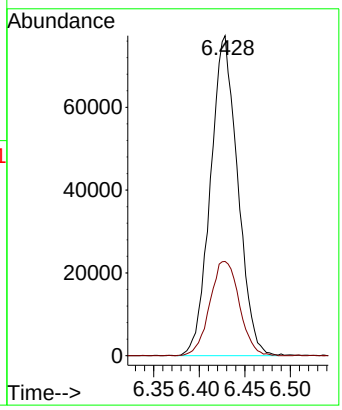




#45
t-1,3-Dichloropropene
Concen: 9.645 ppbv
RT: 6.428 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 75 Resp: 16078

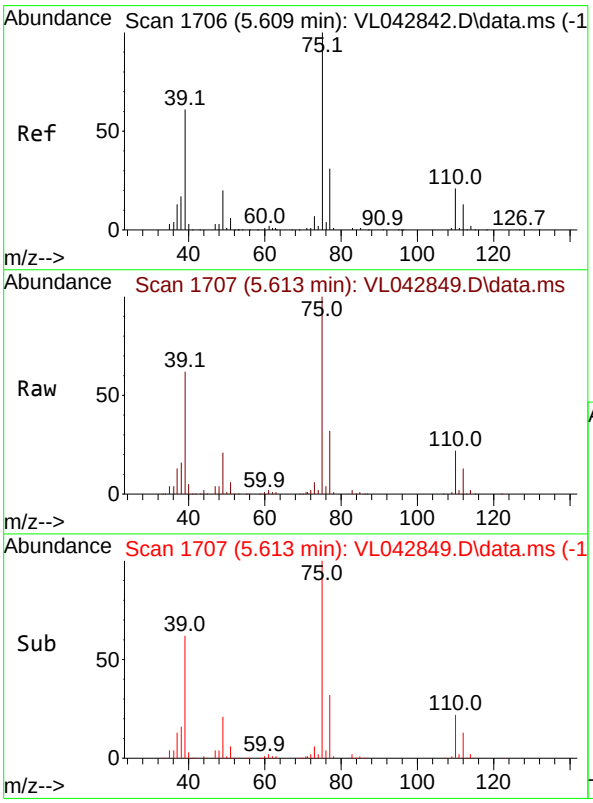
Ion	Ratio	Lower	Upper
75	100		
77	29.5	23.8	35.6



Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Manual Integrations
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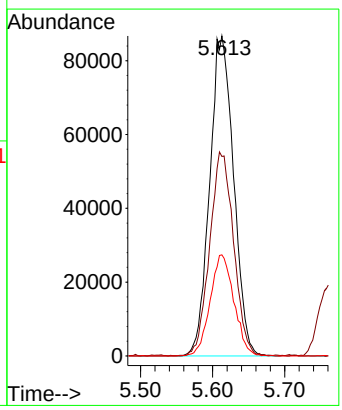
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

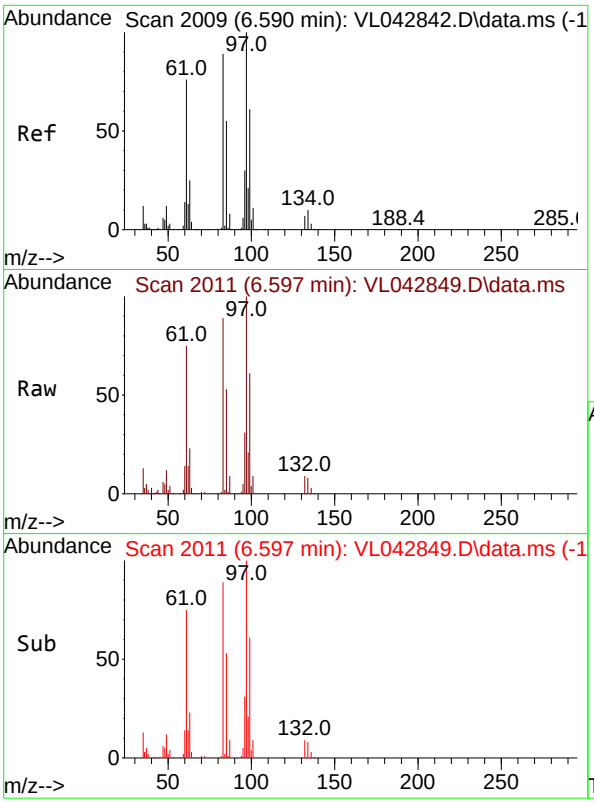


#46
cis-1,3-Dichloropropene
Concen: 9.628 ppbv m
RT: 5.613 min Scan# 1707
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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

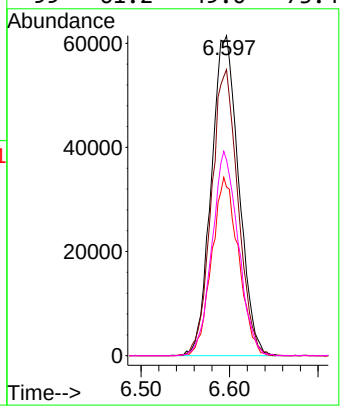




#47
1,1,2-Trichloroethane
Concen: 9.553 ppbv
RT: 6.597 min Scan# 2(
Delta R.T. 0.007 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 97 Resp: 13254(

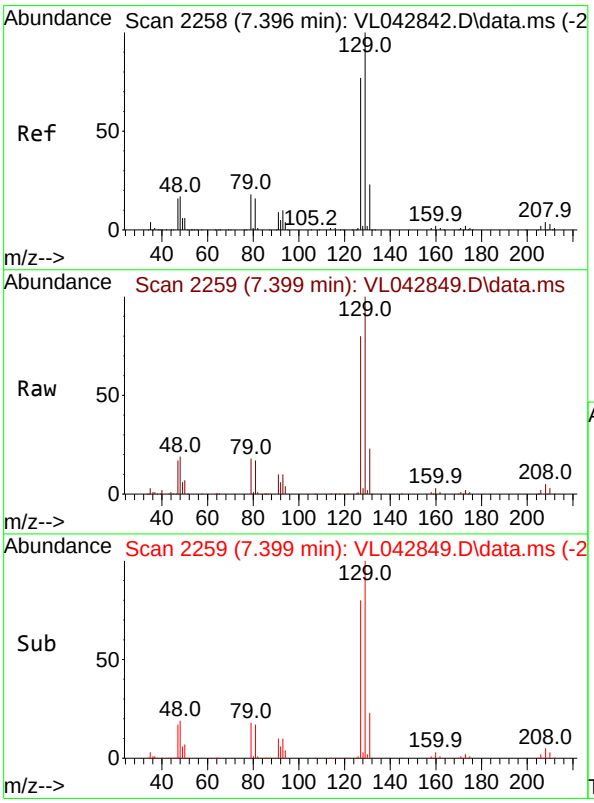
Ion	Ratio	Lower	Upper
97	100		
83	89.3	71.0	106.4
85	52.6	43.6	65.4
99	61.2	49.0	73.4



Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Manual Integrations
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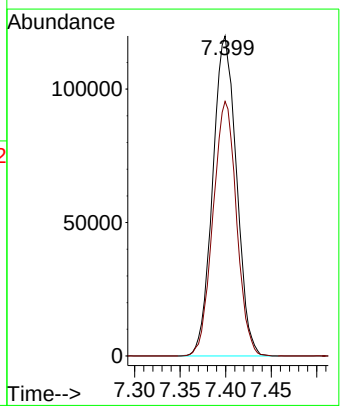
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

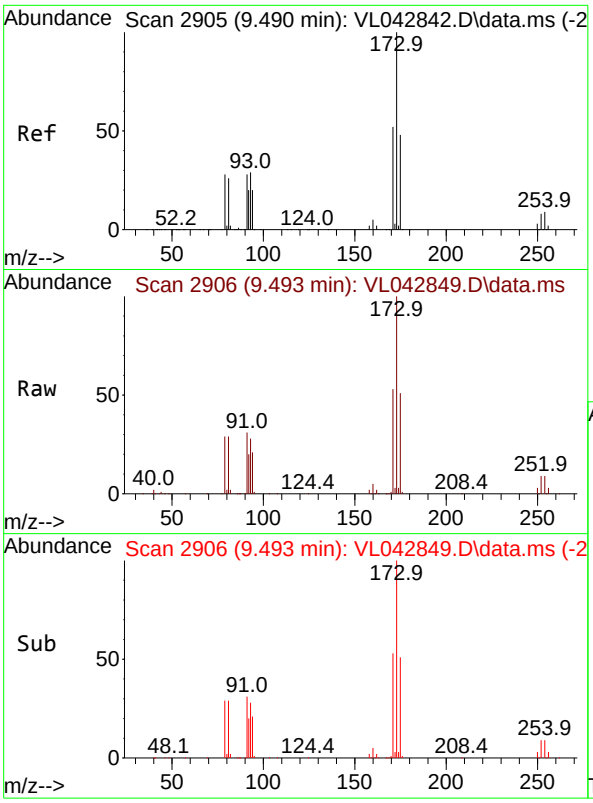


#48
Dibromochloromethane
Concen: 9.708 ppbv
RT: 7.399 min Scan# 2259
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion:129 Resp: 217970

Ion	Ratio	Lower	Upper
129	100		
127	78.5	39.4	118.2

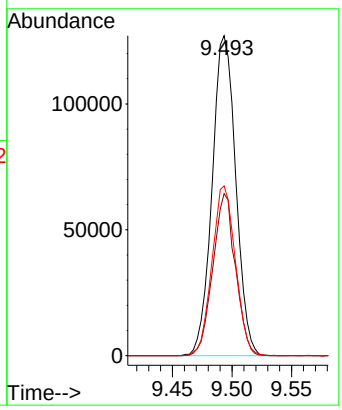




#49
Bromoform
Concen: 9.446 ppbv
RT: 9.493 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion:173 Resp: 17491

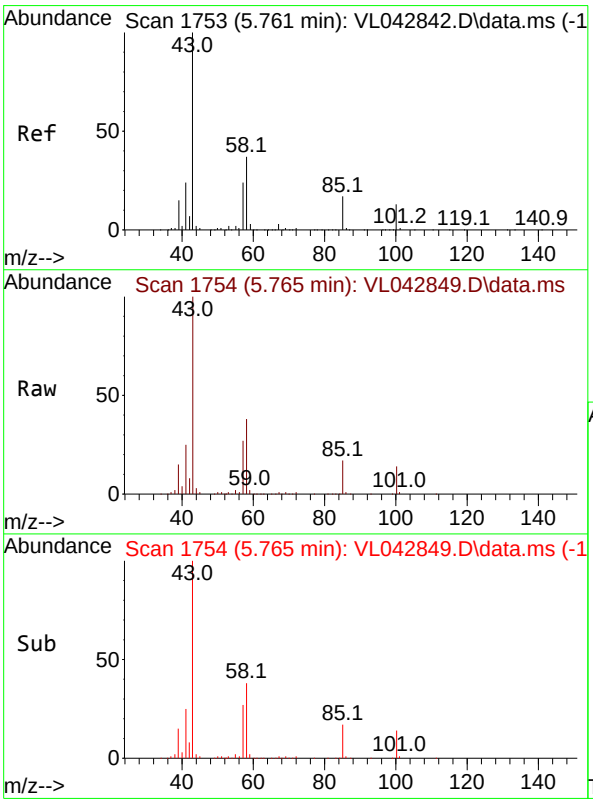
Ion	Ratio	Lower	Upper
173	100		
175	48.4	39.2	58.8
171	52.6	41.3	61.9



Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Manual Integrations
APPROVED

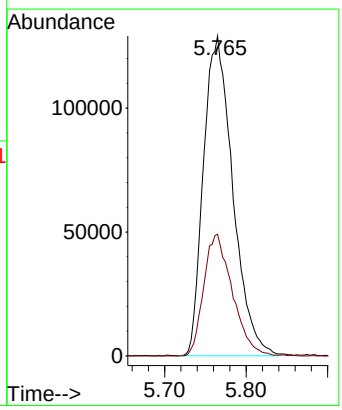
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

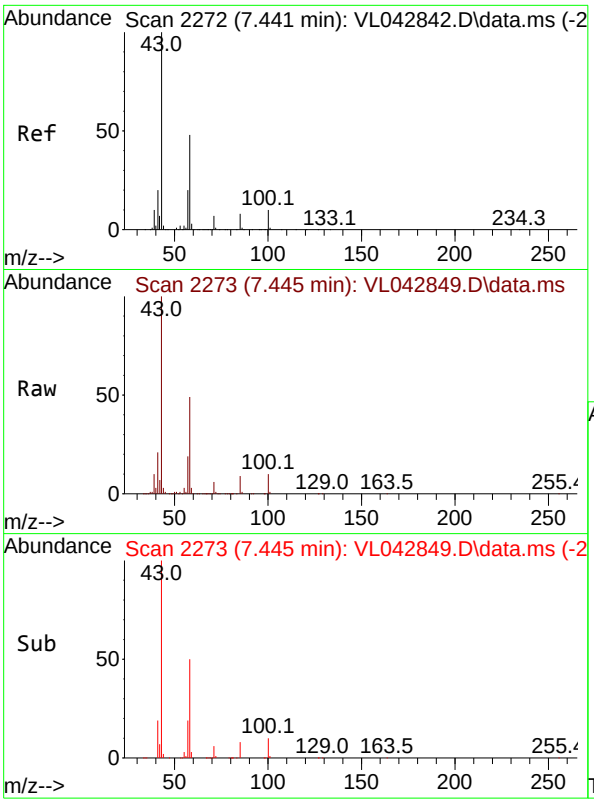


#50
4-Methyl-2-Pentanone
Concen: 9.430 ppbv
RT: 5.765 min Scan# 1754
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 43 Resp: 322264

Ion	Ratio	Lower	Upper
43	100		
58	37.3	29.8	44.8

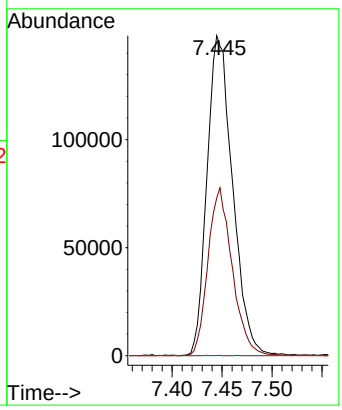




#51
2-Hexanone
Concen: 9.791 ppbv
RT: 7.445 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 43 Resp: 26332

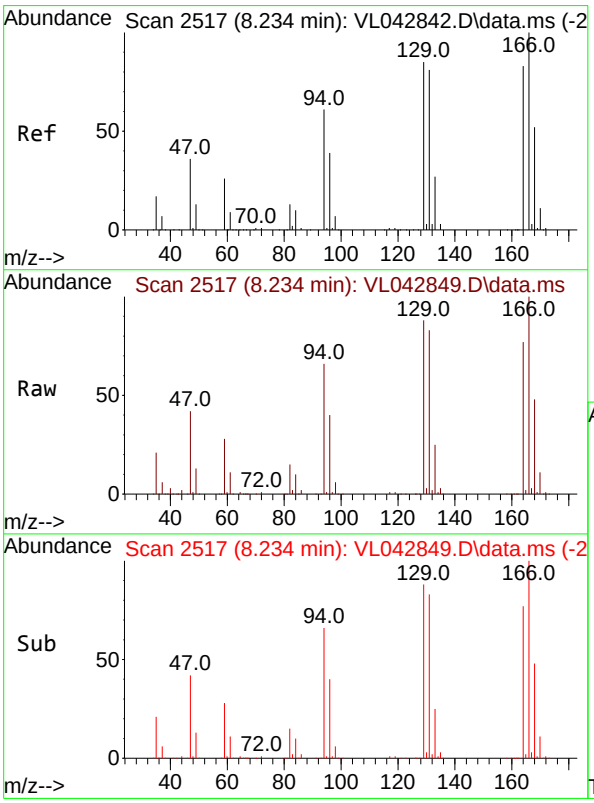
Ion	Ratio	Lower	Upper
43	100		
58	49.9	41.0	61.6
98	0.1	0.1	0.1



Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Manual Integrations
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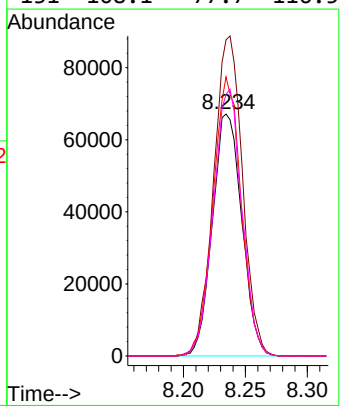
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

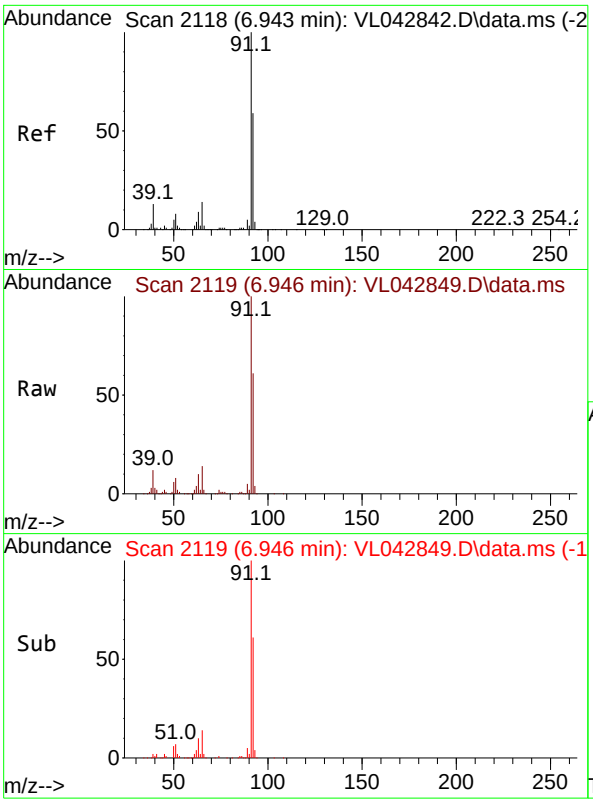


#52
Tetrachloroethene
Concen: 8.544 ppbv
RT: 8.234 min Scan# 2517
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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

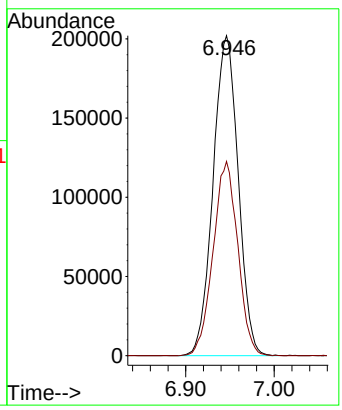




#53
Toluene
Concen: 9.340 ppbv
RT: 6.946 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 91 Resp: 39813

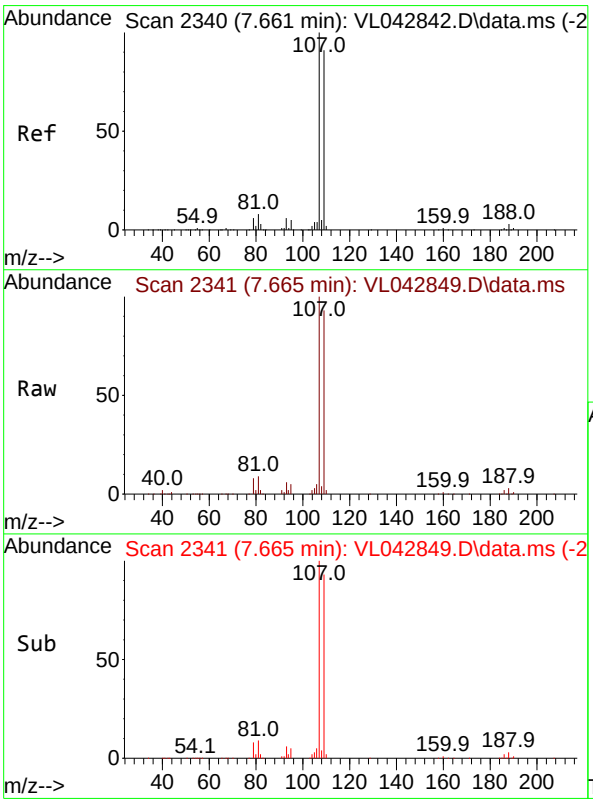
Ion	Ratio	Lower	Upper
91	100		
92	59.7	47.8	71.6



Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Manual Integrations
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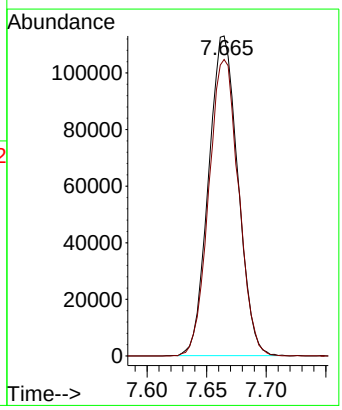
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

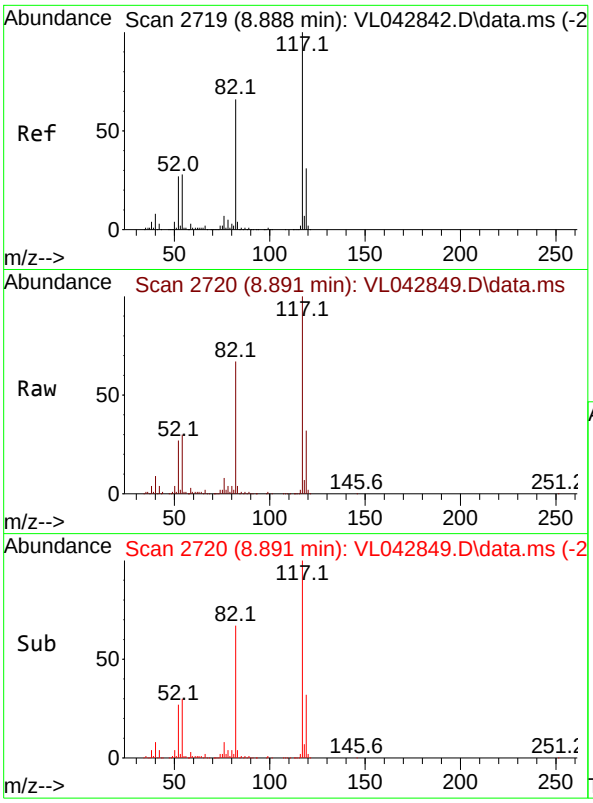


#54
1,2-Dibromoethane
Concen: 9.535 ppbv
RT: 7.665 min Scan# 2341
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion:107 Resp: 193340

Ion	Ratio	Lower	Upper
107	100		
109	92.7	72.5	108.7

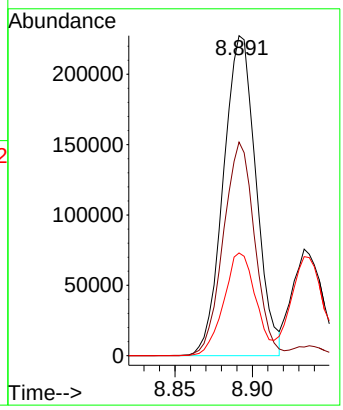




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.891 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion:117 Resp: 33349

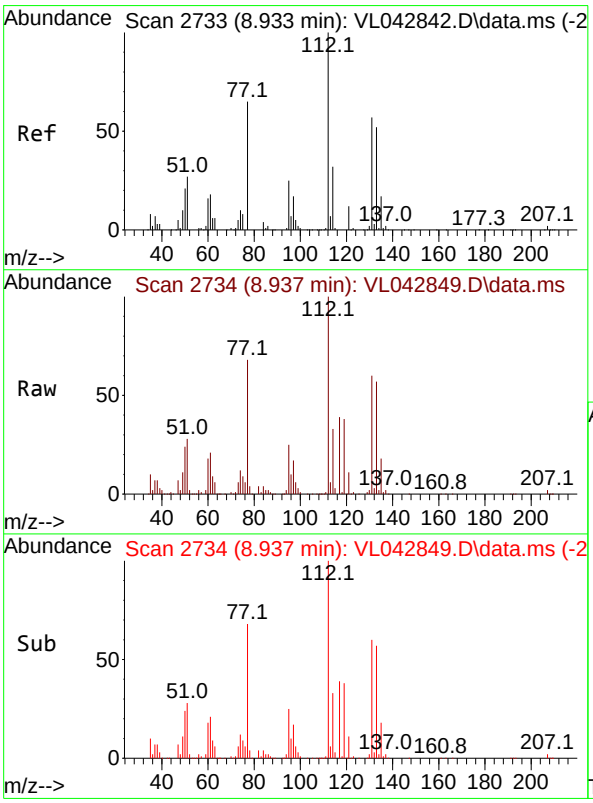
Ion	Ratio	Lower	Upper
117	100		
82	67.3	54.6	81.8
119	31.8	25.9	38.9



Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Manual Integrations
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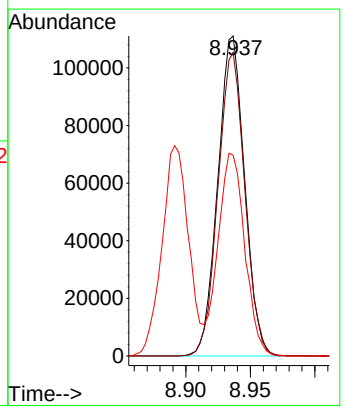
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

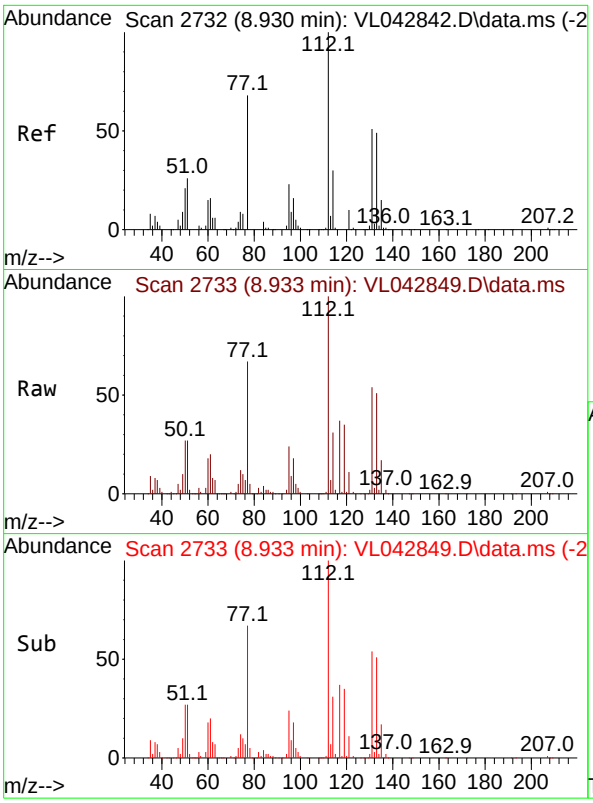


#56
1,1,1,2-Tetrachloroethane
Concen: 9.291 ppbv
RT: 8.937 min Scan# 2734
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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# 2
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

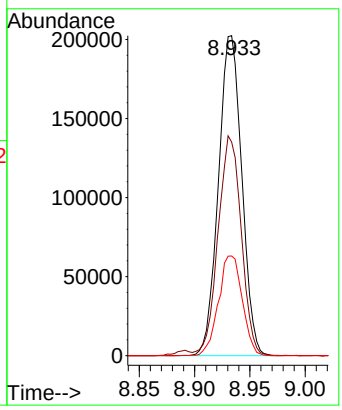
Tgt Ion:112 Resp: 29737

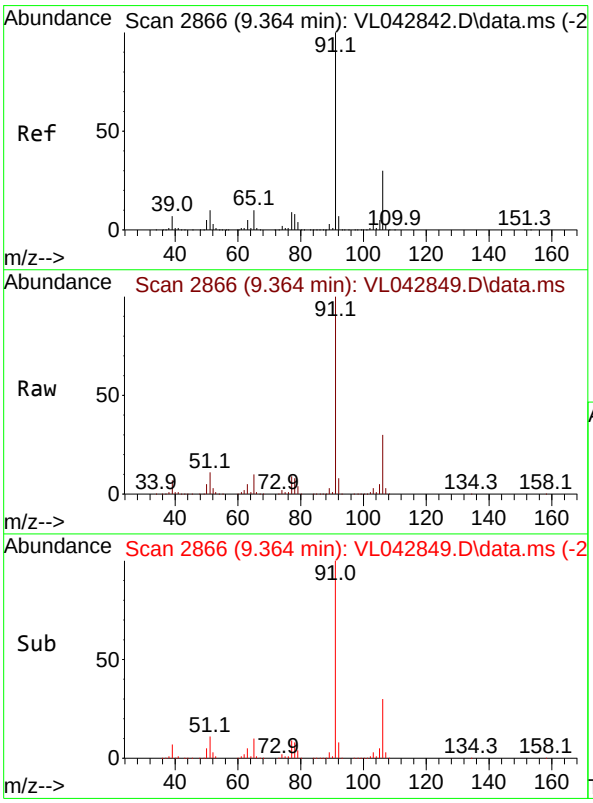
Ion	Ratio	Lower	Upper
112	100		
77	66.6	55.5	83.3
114	31.2	27.2	33.2

Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

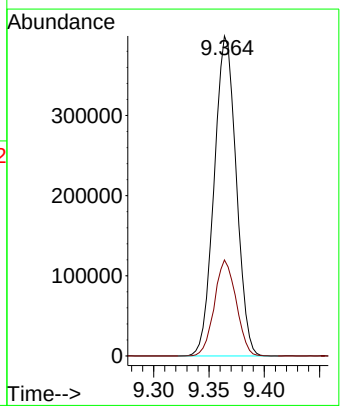


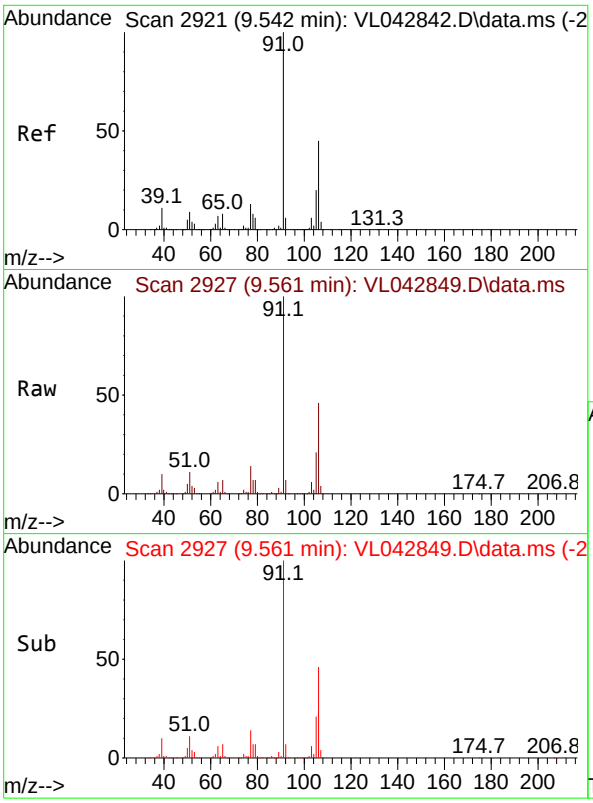


#58
Ethyl Benzene
Concen: 9.414 ppbv
RT: 9.364 min Scan# 2866
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 91 Resp: 554015

Ion	Ratio	Lower	Upper
91	100		
106	30.0	23.9	35.9

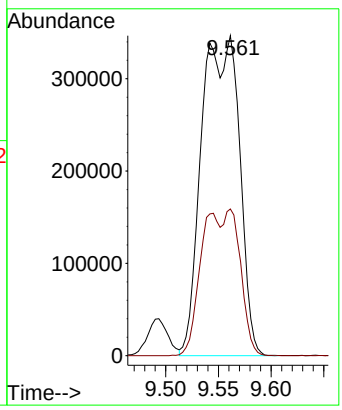




#59
m/p-Xylene
Concen: 18.754 ppbv m
RT: 9.561 min Scan# 2
Delta R.T. 0.019 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 91 Resp: 86510

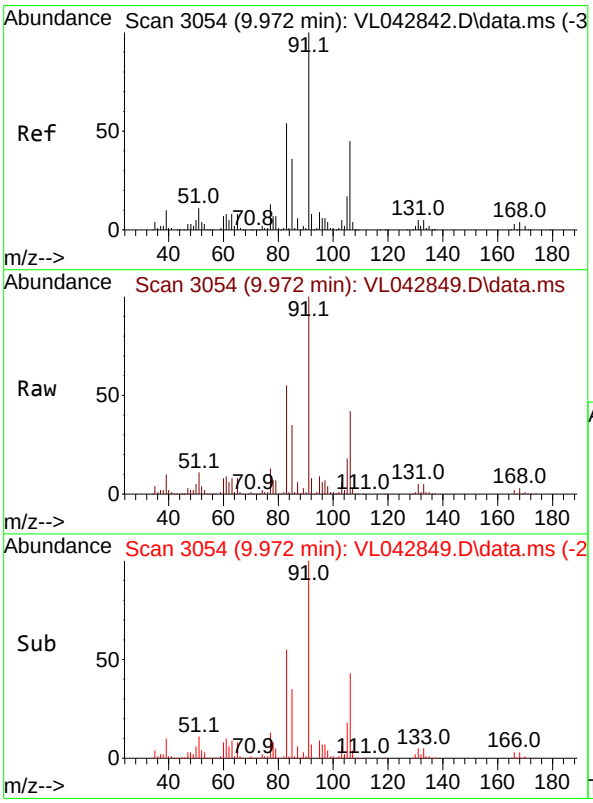
Ion	Ratio	Lower	Upper
91	100		
106	0.0	0.0	0.0



Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Manual Integrations
APPROVED

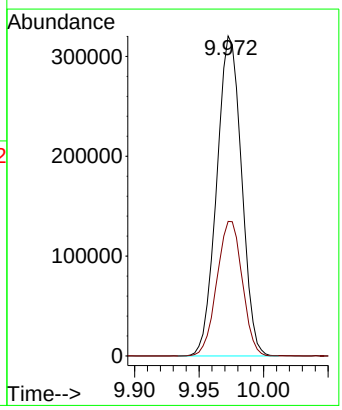
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

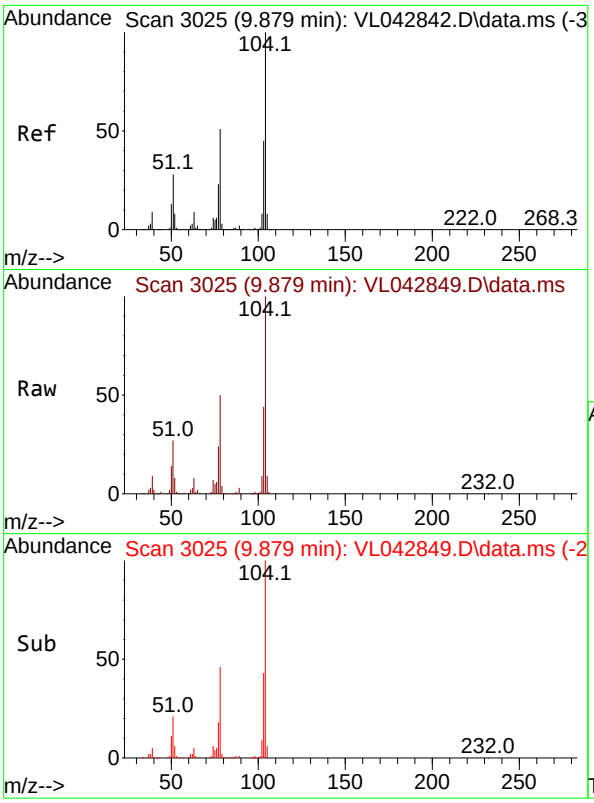


#60
o-Xylene
Concen: 9.239 ppbv
RT: 9.972 min Scan# 3054
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 91 Resp: 428721

Ion	Ratio	Lower	Upper
91	100		
106	43.0	21.8	65.4

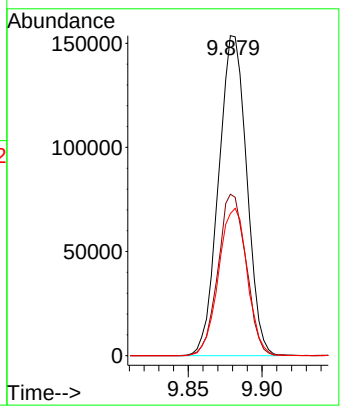




#61
Styrene
Concen: 9.377 ppbv
RT: 9.879 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion:104 Resp: 20385

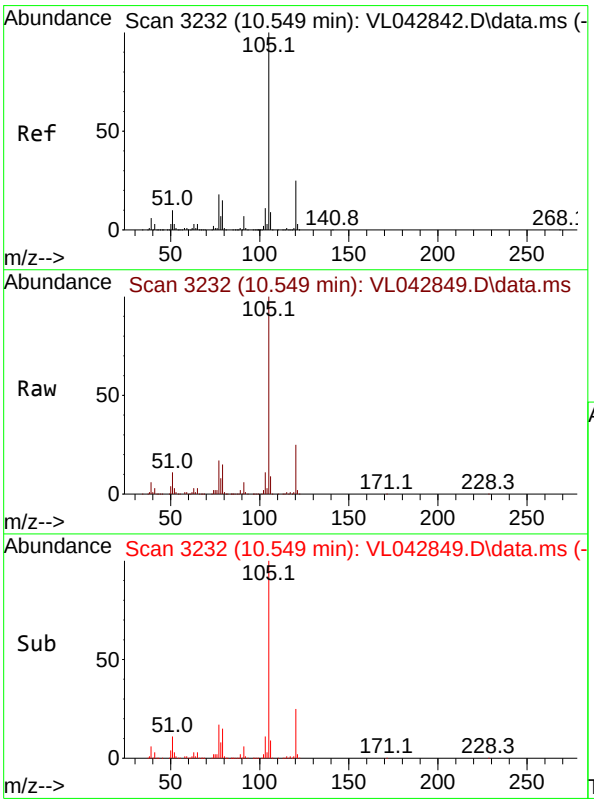
Ion	Ratio	Lower	Upper
104	100		
78	50.3	40.6	61.0
103	47.1	37.7	56.5



Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Manual Integrations
APPROVED

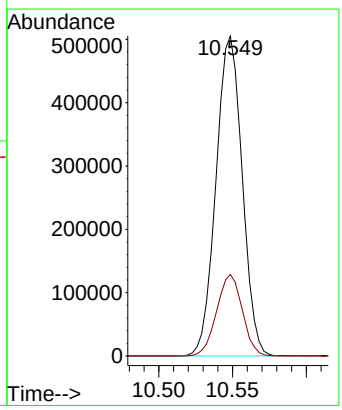
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

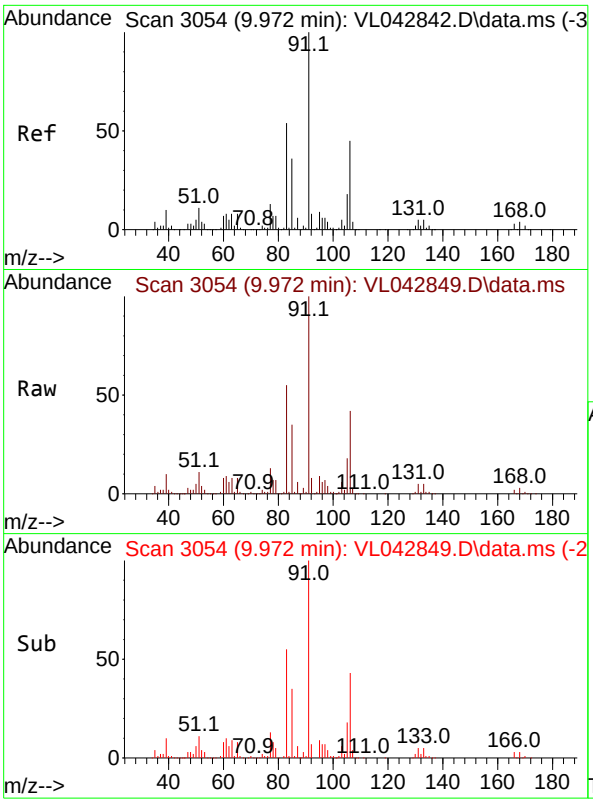


#62
Isopropylbenzene
Concen: 9.206 ppbv
RT: 10.549 min Scan# 3232
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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# 3
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

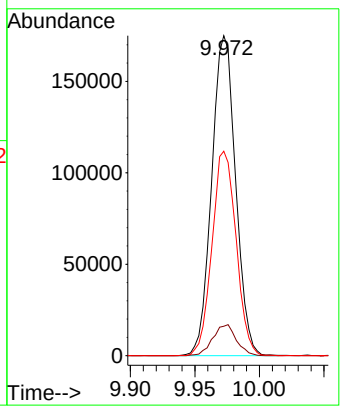
Tgt Ion: 83 Resp: 22523

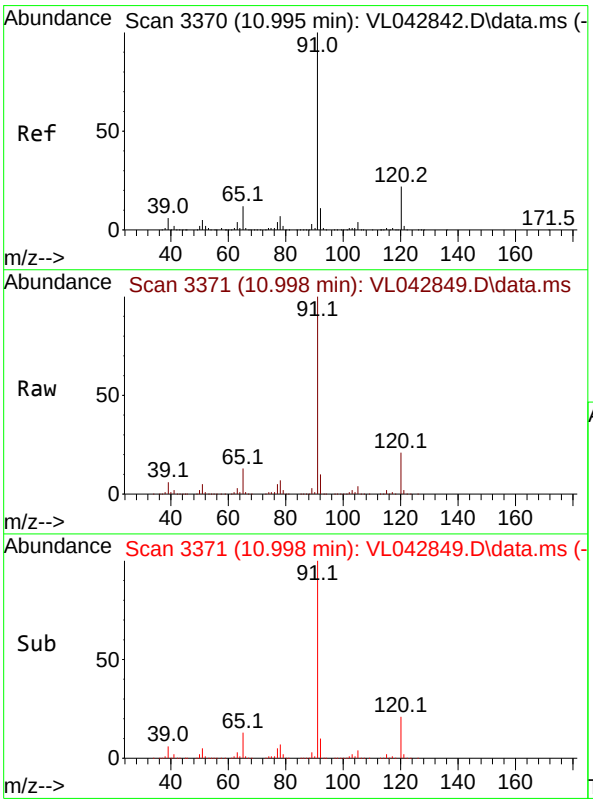
Ion	Ratio	Lower	Upper
83	100		
131	9.5	4.8	14.3
85	64.4	32.3	96.8

Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

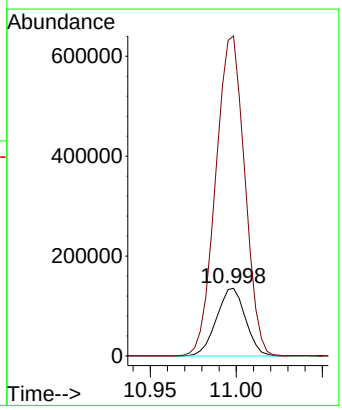


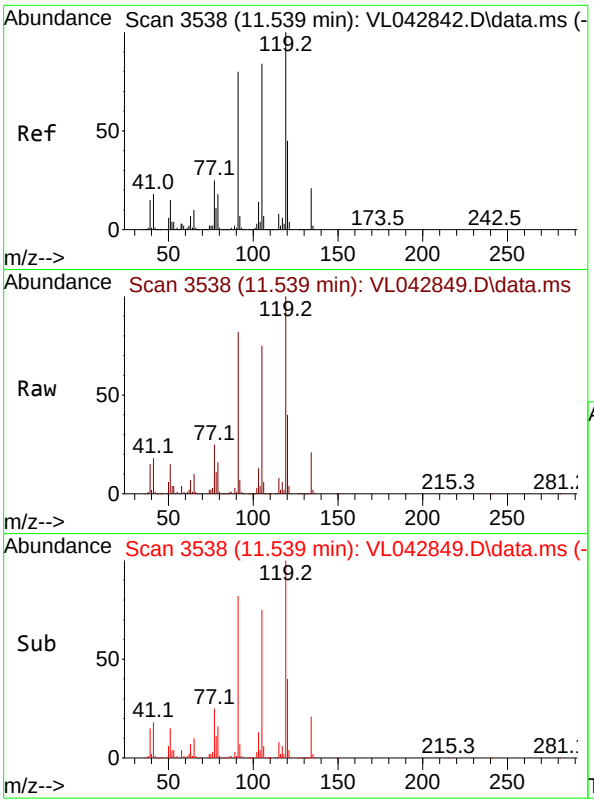


#64
n-propylbenzene
Concen: 9.145 ppbv
RT: 10.998 min Scan# 3371
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion:120 Resp: 158234

Ion	Ratio	Lower	Upper
120	100		
91	476.9	375.8	563.6

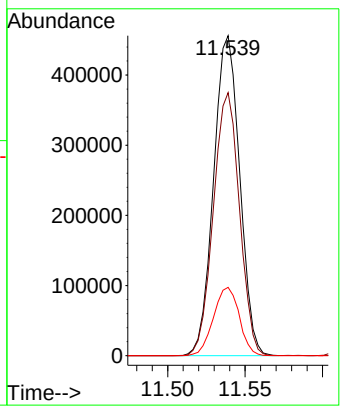




#65
tert-Butylbenzene
Concen: 8.946 ppbv
RT: 11.539 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion:119 Resp: 53479

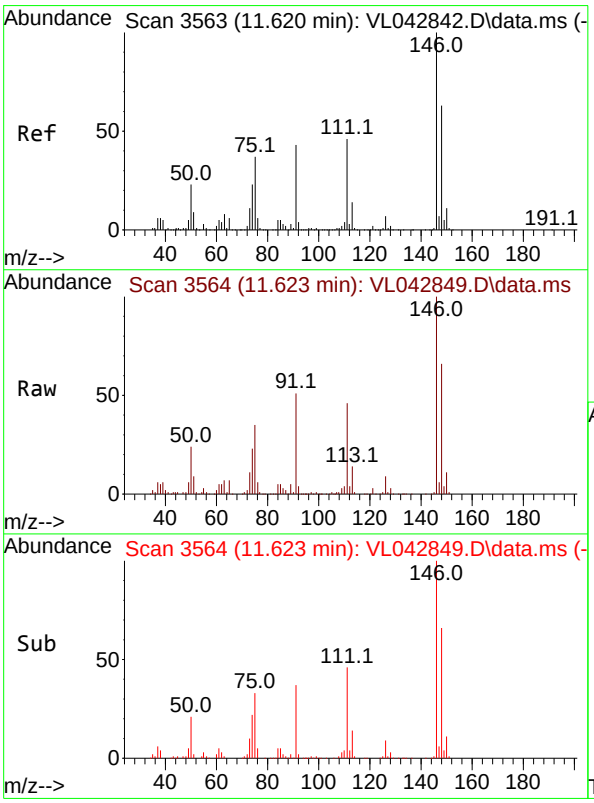
Ion	Ratio	Lower	Upper
119	100		
91	82.2	63.9	95.9
134	21.1	17.0	25.4



Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Manual Integrations APPROVED

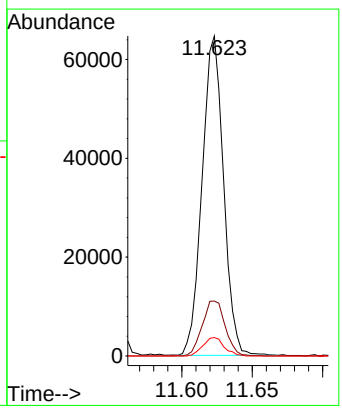
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

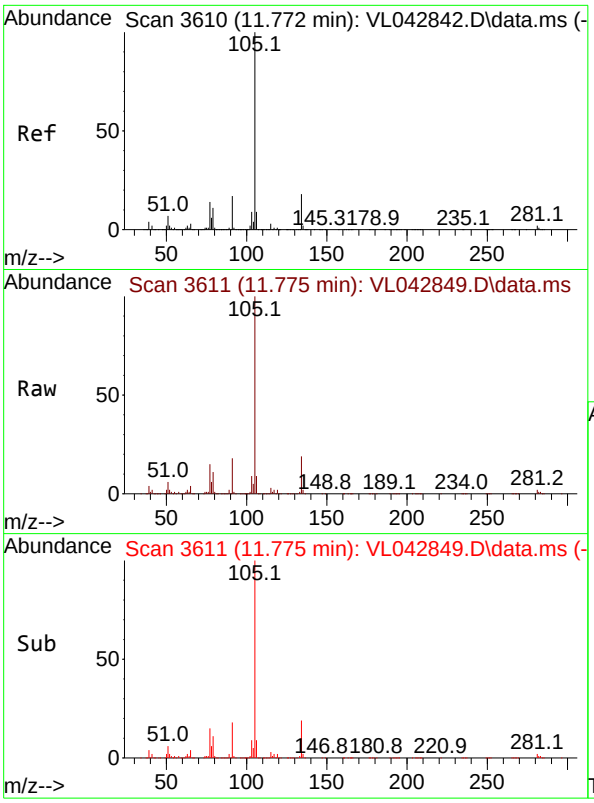


#66
Benzyl Chloride
Concen: 9.031 ppbv
RT: 11.623 min Scan# 3564
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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

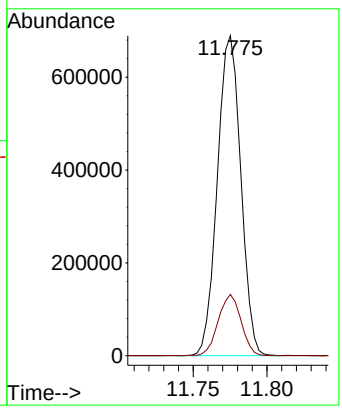




#67
sec-Butylbenzene
Concen: 9.088 ppbv
RT: 11.775 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion:105 Resp: 76260

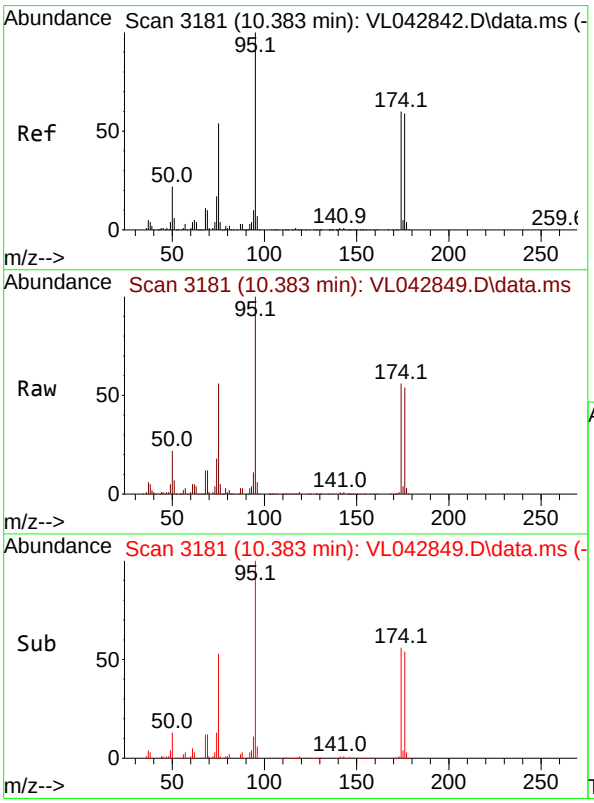
Ion	Ratio	Lower	Upper
105	100		
134	18.6	14.9	22.3



Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Manual Integrations
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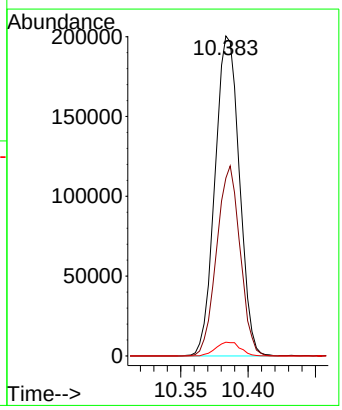
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

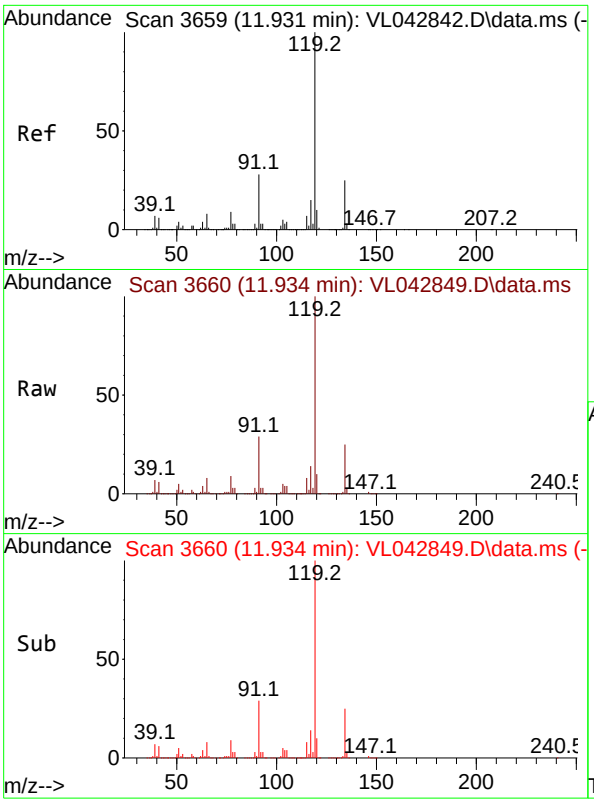


#68
1-Bromo-4-Fluorobenzene
Concen: 10.086 ppbv
RT: 10.383 min Scan# 3181
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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

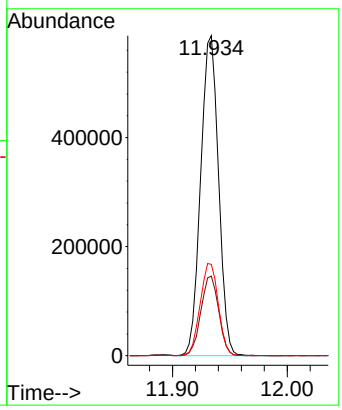




#69
p-Isopropyltoluene
Concen: 8.810 ppbv
RT: 11.934 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion:119 Resp: 63467

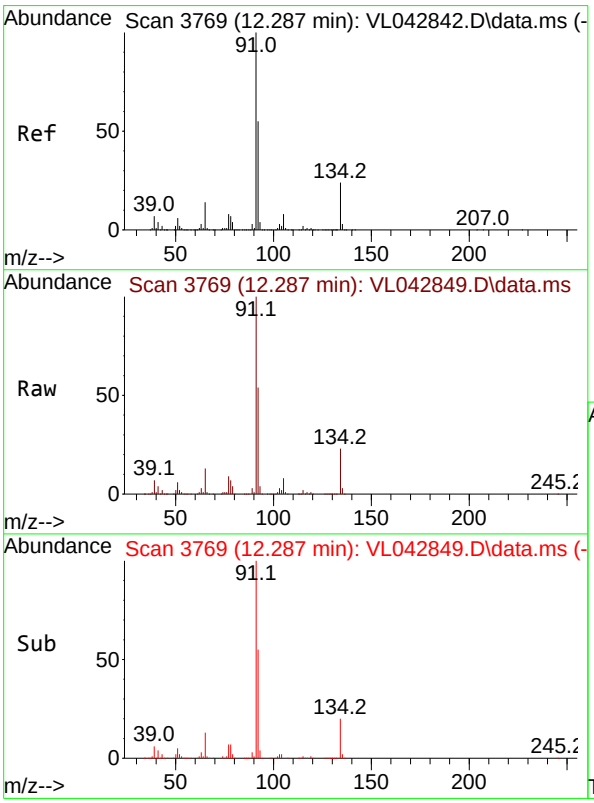
Ion	Ratio	Lower	Upper
119	100		
134	24.9	20.6	30.8
91	29.4	22.6	34.0



Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Manual Integrations
APPROVED

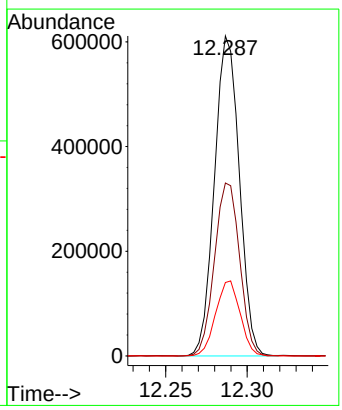
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

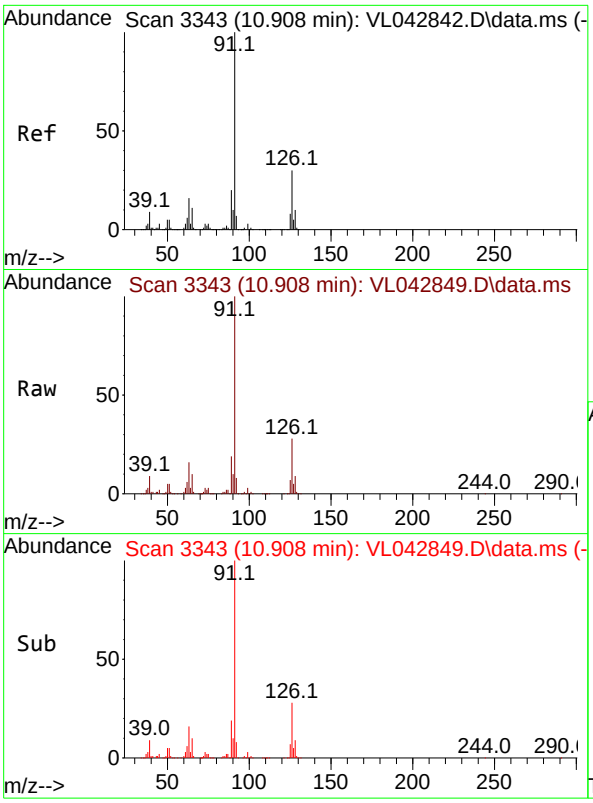


#70
n-Butylbenzene
Concen: 9.062 ppbv
RT: 12.287 min Scan# 3769
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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

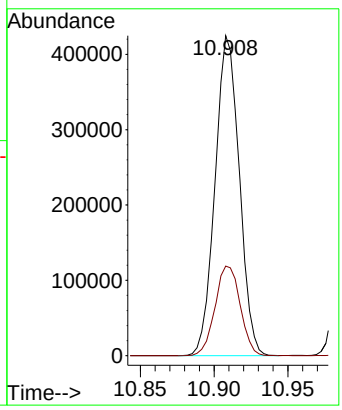




#71
2-Chlorotoluene
Concen: 9.214 ppbv
RT: 10.908 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 91 Resp: 48517

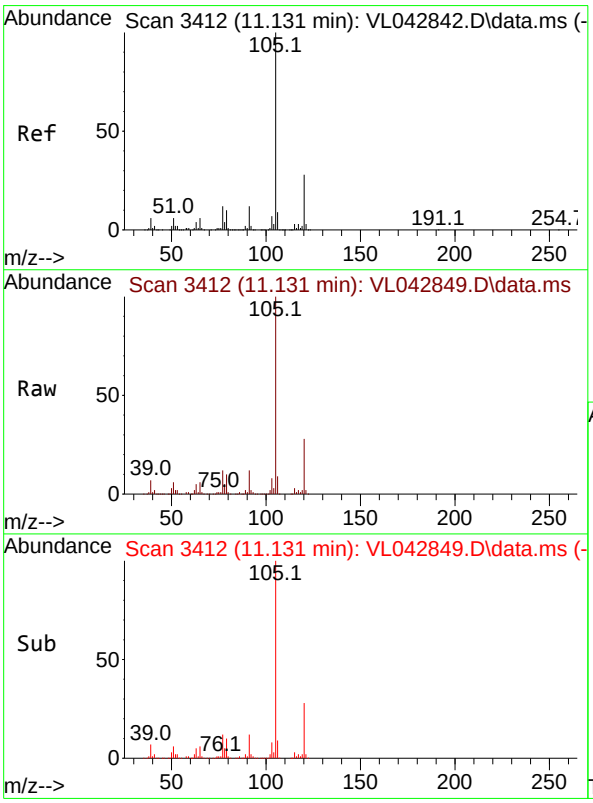
Ion	Ratio	Lower	Upper
91	100		
126	29.1	12.0	47.8



Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Manual Integrations
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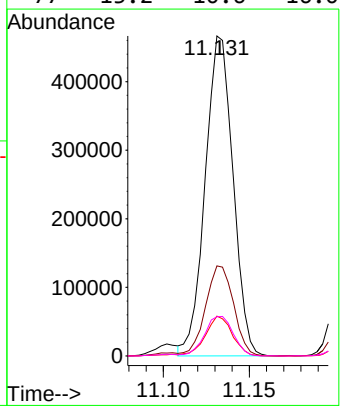
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

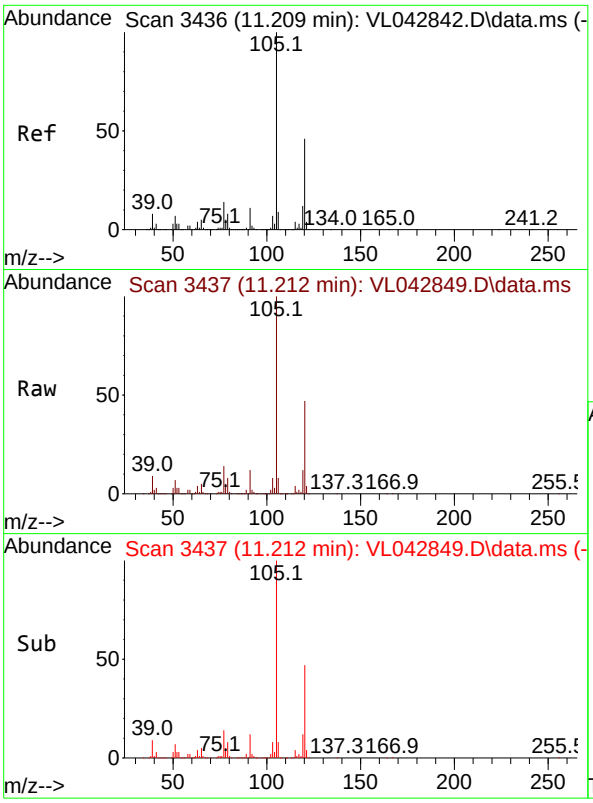


#72
4-Ethyltoluene
Concen: 9.338 ppbv
RT: 11.131 min Scan# 3412
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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

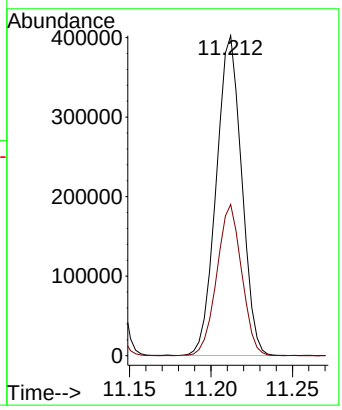




#73
1,3,5-Trimethylbenzene
Concen: 9.108 ppbv
RT: 11.212 min Scan# 34
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion:105 Resp: 43570

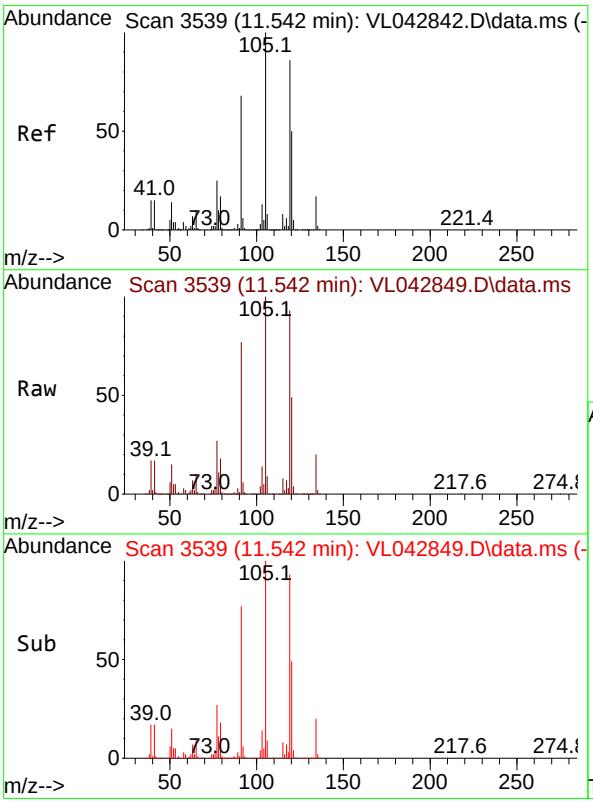
Ion	Ratio	Lower	Upper
105	100		
120	47.2	36.6	54.8



Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Manual Integrations
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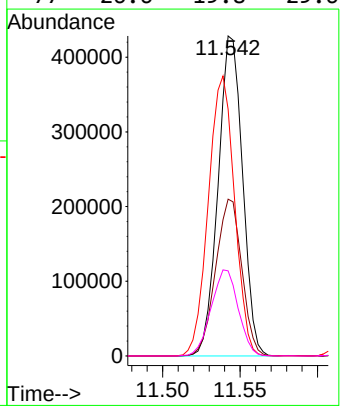
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

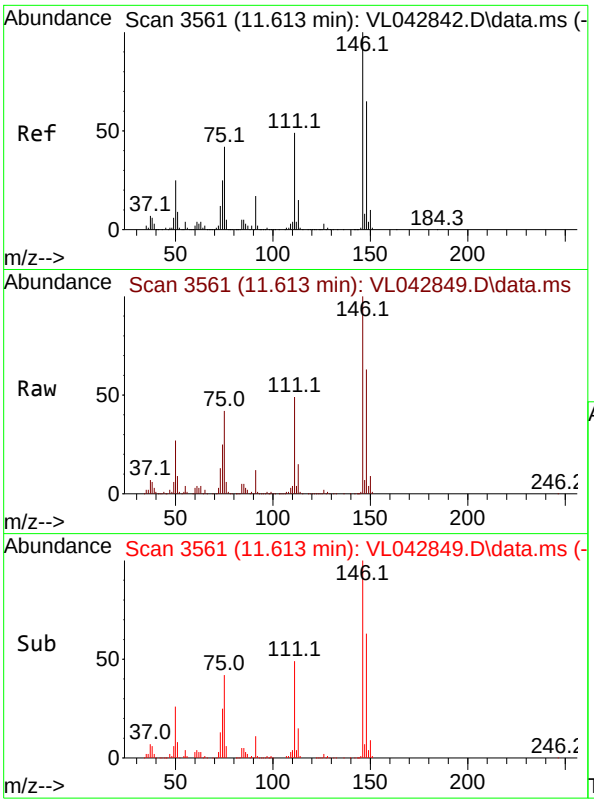


#74
1,2,4-Trimethylbenzene
Concen: 8.943 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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

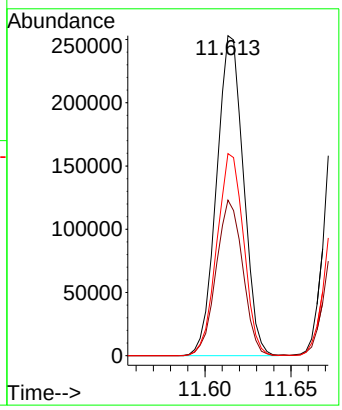




#75
1,3-Dichlorobenzene
Concen: 9.209 ppbv
RT: 11.613 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion:146 Resp: 27487

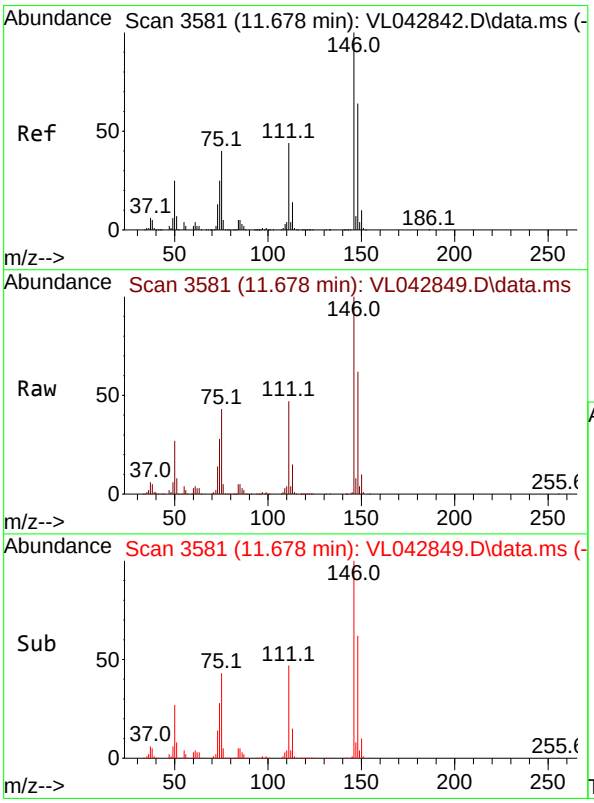
Ion	Ratio	Lower	Upper
146	100		
111	48.2	23.9	71.7
148	63.0	31.4	94.0



Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Manual Integrations
APPROVED

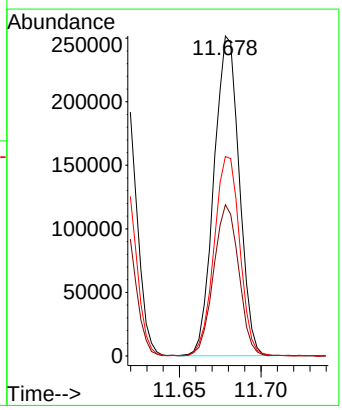
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

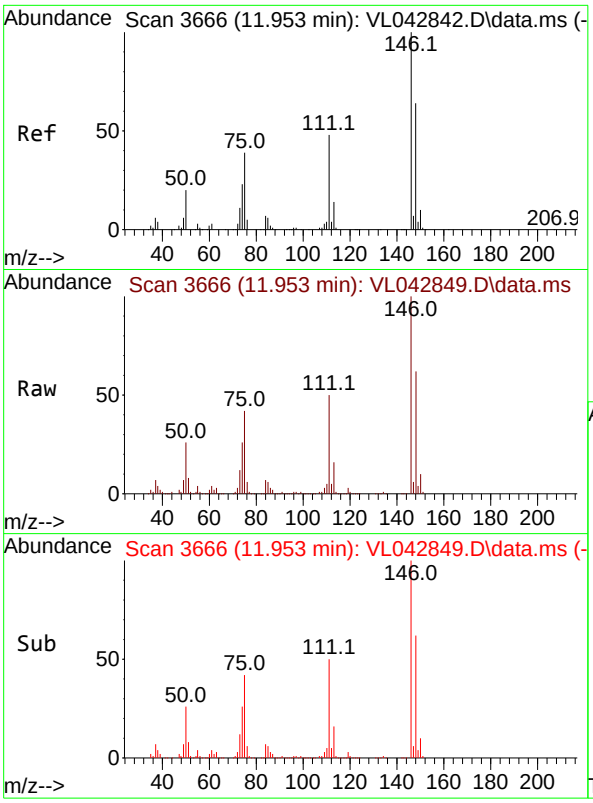


#76
1,4-Dichlorobenzene
Concen: 8.976 ppbv
RT: 11.678 min Scan# 3581
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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

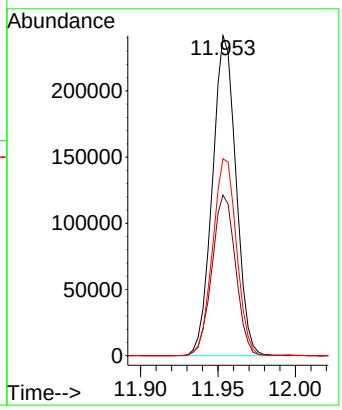




#77
1,2-Dichlorobenzene
Concen: 8.736 ppbv
RT: 11.953 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion:146 Resp: 25534

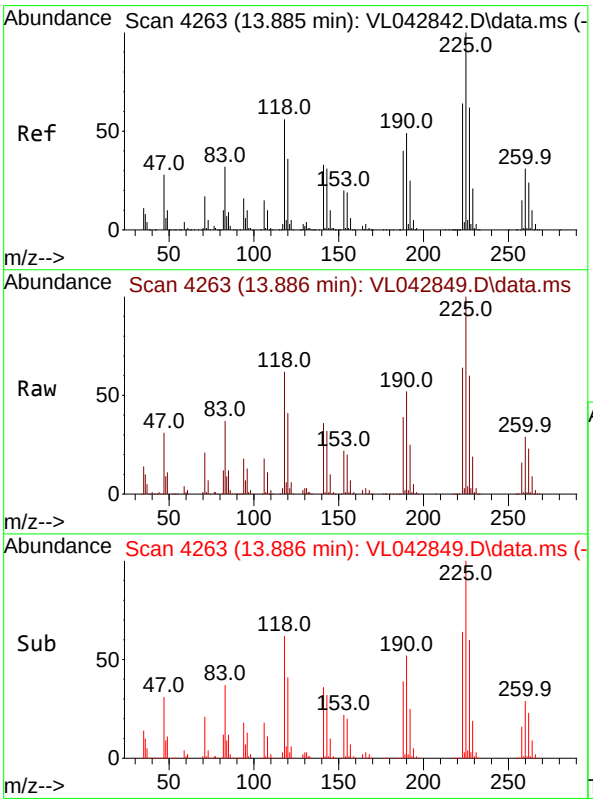
Ion	Ratio	Lower	Upper
146	100		
111	50.5	24.6	74.0
148	62.7	32.0	96.0



Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Manual Integrations
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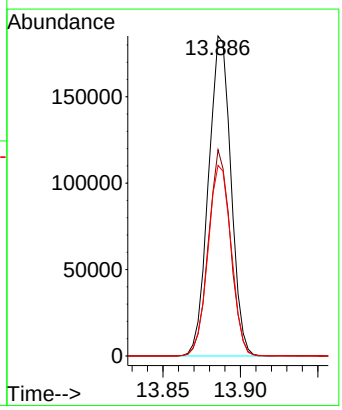
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

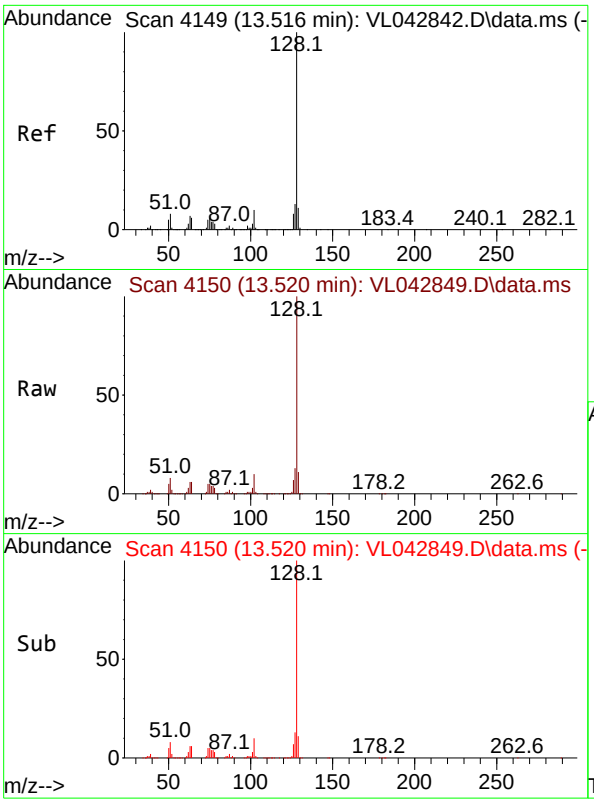


#78
Hexachloro-1,3-Butadiene
Concen: 7.778 ppbv
RT: 13.886 min Scan# 4263
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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

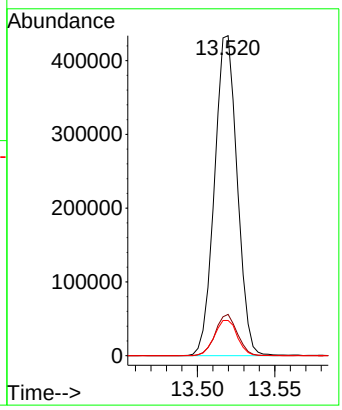




#79
Naphthalene
Concen: 9.284 ppbv
RT: 13.520 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion:128 Resp: 44194

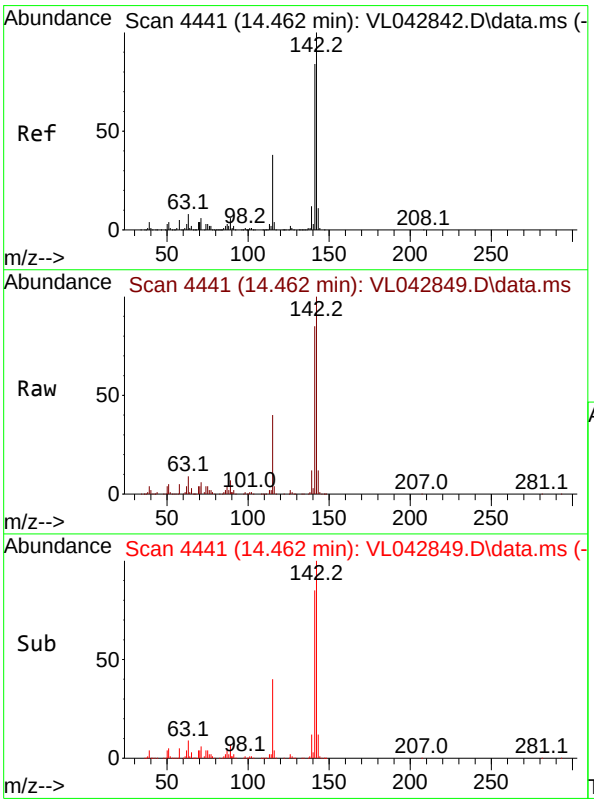
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.6	16.0
129	11.0	8.9	13.3



Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Manual Integrations
APPROVED

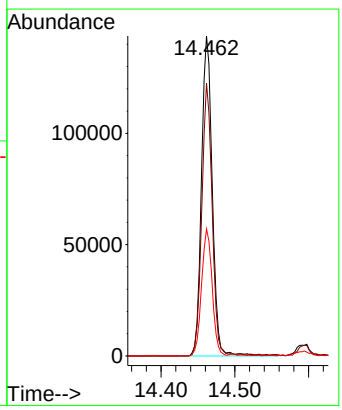
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

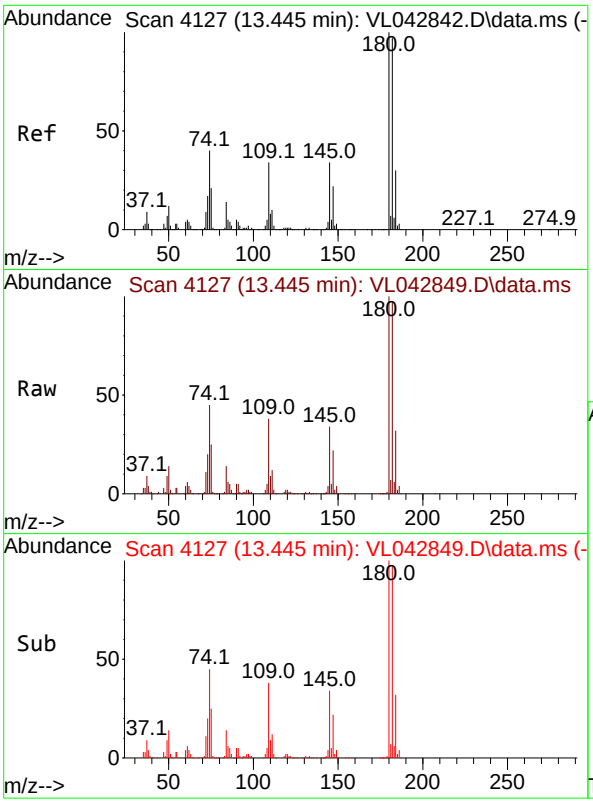


#80
Naphthalene,2-methyl-
Concen: 8.188 ppbv
RT: 14.462 min Scan# 4441
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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

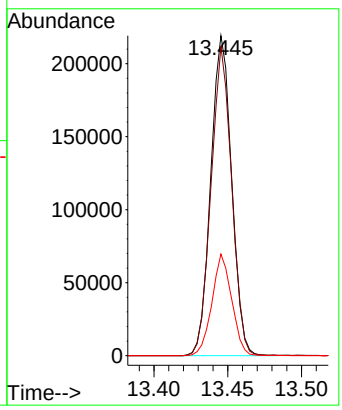




#81
1,2,4-Trichlorobenzene
Concen: 9.016 ppbv
RT: 13.445 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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



Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

Evaluate Continuing Calibration Report

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_LFri 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

Evaluate Continuing Calibration Report

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_LFri 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

Evaluate Continuing Calibration Report

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_LFri 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

Evaluate Continuing Calibration Report

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_LFri 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

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	Alliance	Contract:	APEX04
Lab Code:	ACE	SDG No.:	Q3037
Instrument ID:	MSVOA_L	Calibration Date/Time:	09/08/2025 11:05
Lab File ID:	VL042900.D	Init. Calib. Date(s):	08/13/2025 08/13/2025
Heated Purge: (Y/N)	N	Init. Calib. Time(s):	08:30 12:06

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

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Vinyl Chloride	0.582	0.560		-3.78	30
1,2-Dichloroethane	0.500	0.635		27	30
Trichloroethene	0.437	0.455		4.12	30
Tetrachloroethene	0.346	0.331		-4.34	30
1-Bromo-4-Fluorobenzene	0.750	0.786		4.8	30

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
Data File : VL042900.D
Acq On : 08 Sep 2025 11:05
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 09 00:52:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Sep 09 00:52:26 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.777	49	126678	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.943	114	333606	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.869	117	282770	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.364	95	222314	10.483	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 104.800%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.492	85	195136	10.511	ppbv	100
3) Chlorodifluoromethane	1.470	51	223887	10.910	ppbv	98
4) Chloromethane	1.528	50	74830	9.988	ppbv	99
5) Vinyl Chloride	1.577	62	70899	9.609	ppbv	99
6) Bromomethane	1.664	94	28498	9.659	ppbv	99
7) Chloroethane	1.700	64	28496	9.889	ppbv	89
8) Dichlorotetrafluoroethane	1.551	85	158303	10.420	ppbv	96
9) Propene	1.476	41	88702	10.009	ppbv	99
10) Heptane	4.959	43	234952	9.898	ppbv	98
11) Trichlorofluoromethane	1.871	101	188309	10.280	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.133	101	147287	10.089	ppbv	96
13) Ethanol	1.716	45	6525	8.052	ppbv	98
14) Bromoethene	1.777	108	53755	10.171	ppbv	99
15) Acetone	1.829	43	145289	8.670	ppbv	98
16) 1,3-Butadiene	1.602	39	70713	9.308	ppbv	100
17) tert-Butyl alcohol	2.033	59	170394	8.574	ppbv	99
18) 1,1-Dichloroethene	2.026	96	63544	9.900	ppbv	94
19) Isopropyl Alcohol	1.881	45	89009	8.893	ppbv	95
20) Methylene Chloride	2.056	84	57698	8.219	ppbv	93
21) Allyl Chloride	2.088	41	114332	9.658	ppbv	94
22) trans-1,2-Dichloroethene	2.331	96	74045	9.971	ppbv	93
23) Vinyl Acetate	2.454	43	228268	9.907	ppbv #	97
24) 1,1-Dichloroethane	2.402	63	152618	10.291	ppbv	99
25) Ethyl Acetate	2.826	43	415386	10.242	ppbv	99
26) Hexane	2.816	57	187779	10.031	ppbv	95
27) Carbon Disulfide	2.143	76	193262	10.608	ppbv	98
28) Methyl tert-Butyl Ether	2.431	73	85774	8.986	ppbv	93
29) Chloroform	2.839	83	281659	10.538	ppbv	98
30) Cyclohexane	3.842	84	153066	9.326	ppbv	96
31) cis-1,2-Dichloroethene	2.713	61	182592	9.765	ppbv	99
32) 1,1,1-Trichloroethane	3.357	97	271429	9.609	ppbv	96
34) 2-Butanone	2.548	43	272735	12.107	ppbv	98
35) Carbon Tetrachloride	3.748	117	269097	11.700	ppbv	99
36) Benzene	3.645	78	366027	11.458	ppbv	97
37) 1,2-Dichloroethane	3.208	62	211728	12.686	ppbv	98
38) Trichloroethene	4.532	130	151915	10.413	ppbv	95
39) 1,2-Dichloropropane	4.299	63	139657	11.970	ppbv	96
40) 1,4-Dioxane	4.561	88	56013	10.096	ppbv #	88
41) Tetrahydrofuran	3.043	42	148990	11.863	ppbv	96
42) Bromodichloromethane	4.473	83	301814	12.136	ppbv	98
43) Methyl Methacrylate	4.859	69	141813	10.776	ppbv	95
44) 2,2,4-Trimethylpentane	4.622	57	631245	11.642	ppbv	99
45) t-1,3-Dichloropropene	6.393	75	154622	10.411	ppbv	98

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
Data File : VL042900.D
Acq On : 08 Sep 2025 11:05
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 09 00:52:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Sep 09 00:52:26 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.580	75	200797	10.851	ppbv		98
47) 1,1,2-Trichloroethane	6.561	97	144209	11.666	ppbv		98
48) Dibromochloromethane	7.370	129	228649	11.430	ppbv		100
49) Bromoform	9.471	173	184068	11.158	ppbv		98
50) 4-Methyl-2-Pentanone	5.729	43	359329	11.801	ppbv		96
51) 2-Hexanone	7.419	43	284454	11.872	ppbv	#	95
52) Tetrachloroethene	8.212	164	110334	9.547	ppbv		98
53) Toluene	6.914	91	402080	10.587	ppbv		100
54) 1,2-Dibromoethane	7.636	107	204276	11.307	ppbv		98
56) 1,1,1,2-Tetrachloroethane	8.914	131	170319	11.648	ppbv		99
57) Chlorobenzene	8.911	112	311373	11.581	ppbv		97
58) Ethyl Benzene	9.345	91	558102	11.184	ppbv		99
59) m/p-Xylene	9.539	91	914783m	23.388	ppbv		
60) o-Xylene	9.953	91	460968	11.716	ppbv		100
61) Styrene	9.859	104	195007	10.579	ppbv		99
62) Isopropylbenzene	10.529	105	655164	11.394	ppbv		98
63) 1,1,2,2-Tetrachloroethane	9.953	83	266435	12.314	ppbv		100
64) n-propylbenzene	10.979	120	164610	11.220	ppbv		90
65) tert-Butylbenzene	11.523	119	561409	11.075	ppbv		97
66) Benzyl Chloride	11.607	91	50803	7.895	ppbv	#	98
67) sec-Butylbenzene	11.759	105	833114	11.709	ppbv		98
69) p-Isopropyltoluene	11.918	119	667558	10.929	ppbv		99
70) n-Butylbenzene	12.274	91	711012	11.736	ppbv		98
71) 2-Chlorotoluene	10.892	91	498072	11.156	ppbv		97
72) 4-Ethyltoluene	11.118	105	554411	11.624	ppbv		98
73) 1,3,5-Trimethylbenzene	11.196	105	450409	11.105	ppbv		98
74) 1,2,4-Trimethylbenzene	11.529	105	508605	11.424	ppbv		95
75) 1,3-Dichlorobenzene	11.597	146	289650	11.445	ppbv		99
76) 1,4-Dichlorobenzene	11.662	146	287352	11.226	ppbv		99
77) 1,2-Dichlorobenzene	11.940	146	281307	11.351	ppbv		99
78) Hexachloro-1,3-Butadiene	13.873	225	167893	8.266	ppbv		99
79) Naphthalene	13.504	128	428355	10.613	ppbv		99
80) Naphthalene,2-methyl-	14.449	142	127751	8.470	ppbv		96
81) 1,2,4-Trichlorobenzene	13.432	180	207455	10.226	ppbv		99

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

Quantitation Report (QT Reviewed)

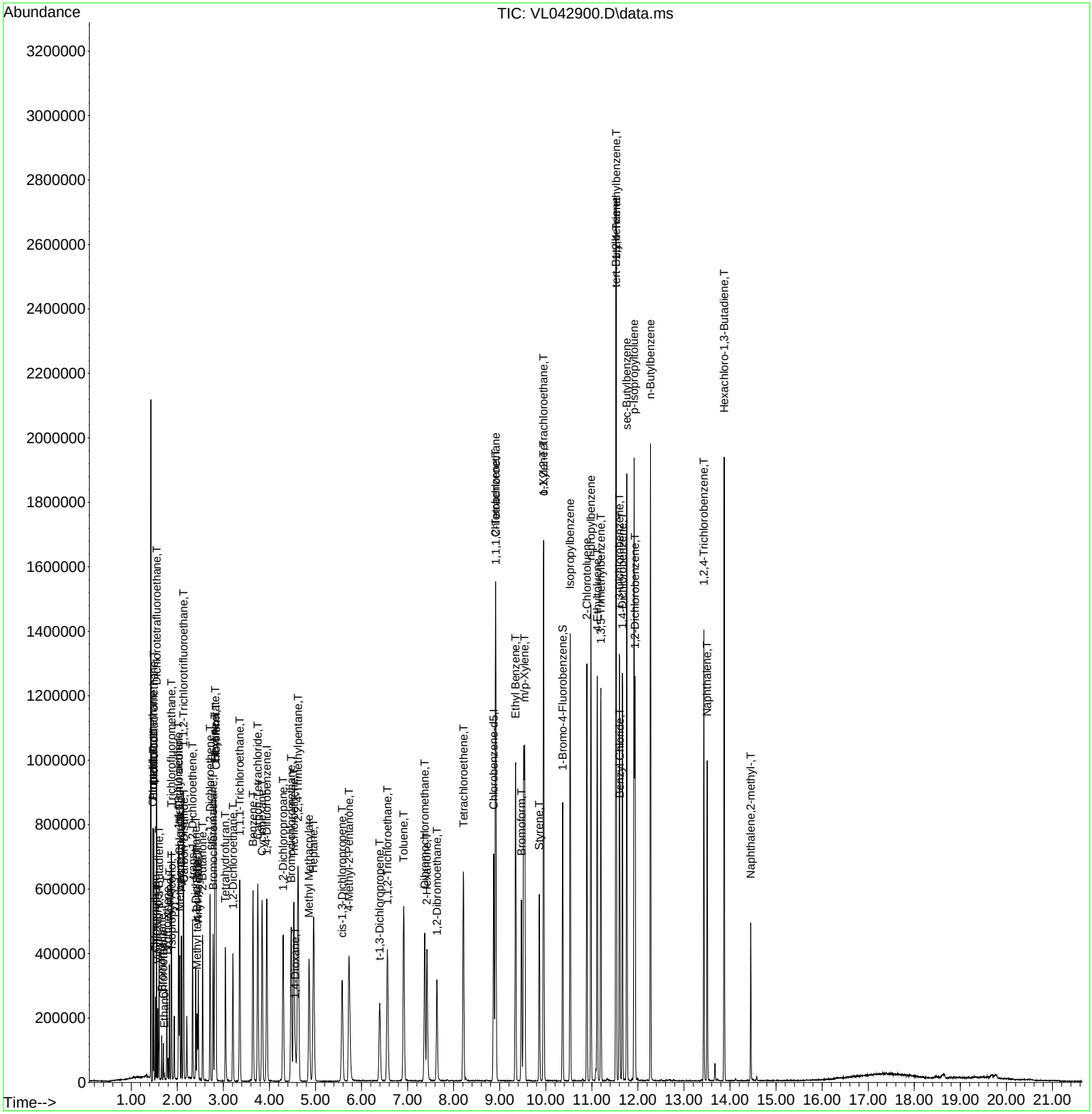
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
Data File : VL042900.D
Acq On : 08 Sep 2025 11:05
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

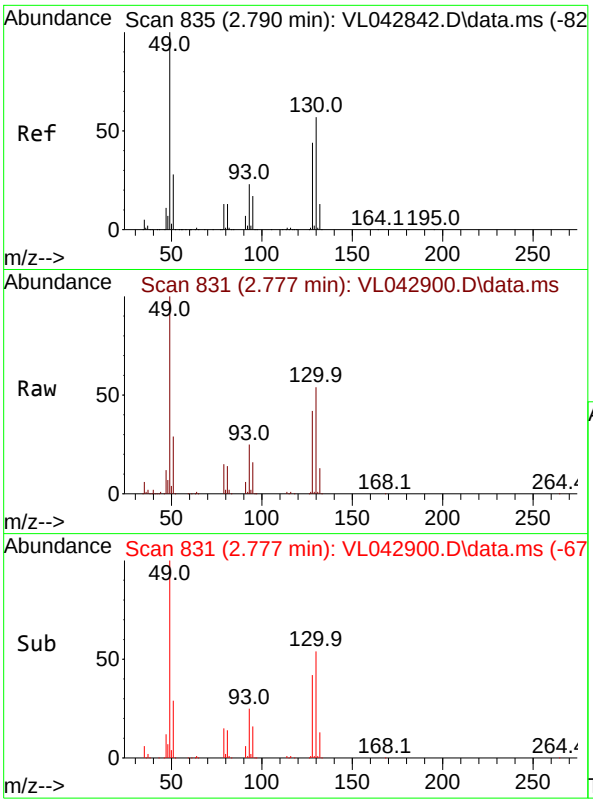
Quant Time: Sep 09 00:52:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Sep 09 00:52:26 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

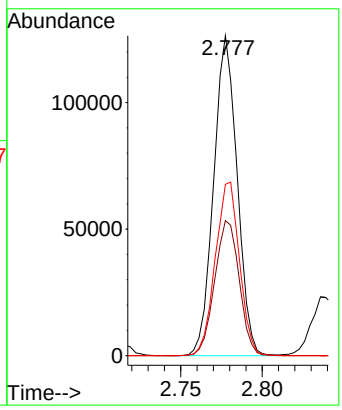




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.777 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 49 Resp: 12667

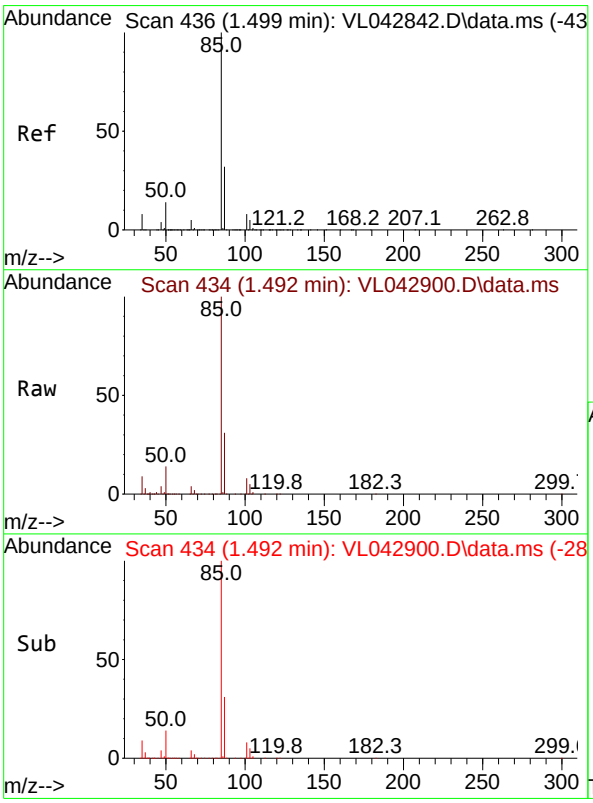
Ion	Ratio	Lower	Upper
49	100		
128	44.1	23.7	71.1
130	55.7	30.6	91.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

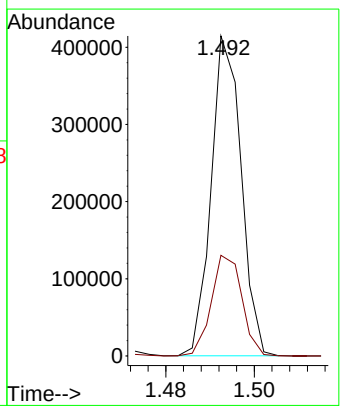
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

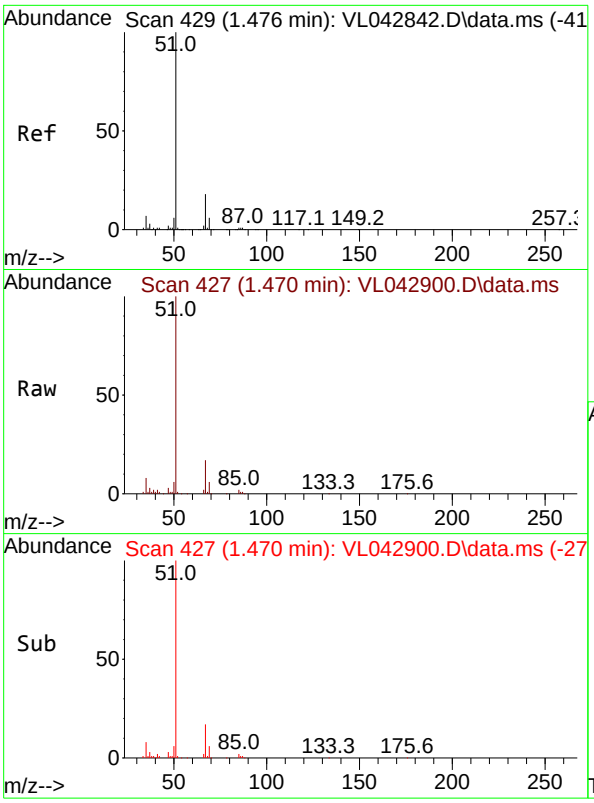


#2
Dichlorodifluoromethane
Concen: 10.511 ppbv
RT: 1.492 min Scan# 434
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 85 Resp: 195136

Ion	Ratio	Lower	Upper
85	100		
87	31.4	25.3	37.9

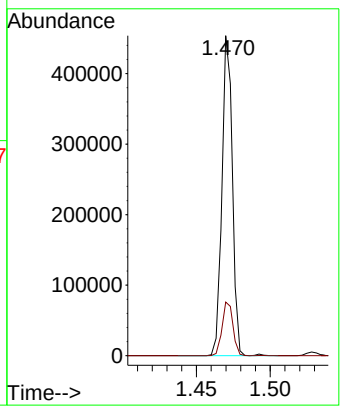




#3
Chlorodifluoromethane
Concen: 10.910 ppbv
RT: 1.470 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 51 Resp: 22388

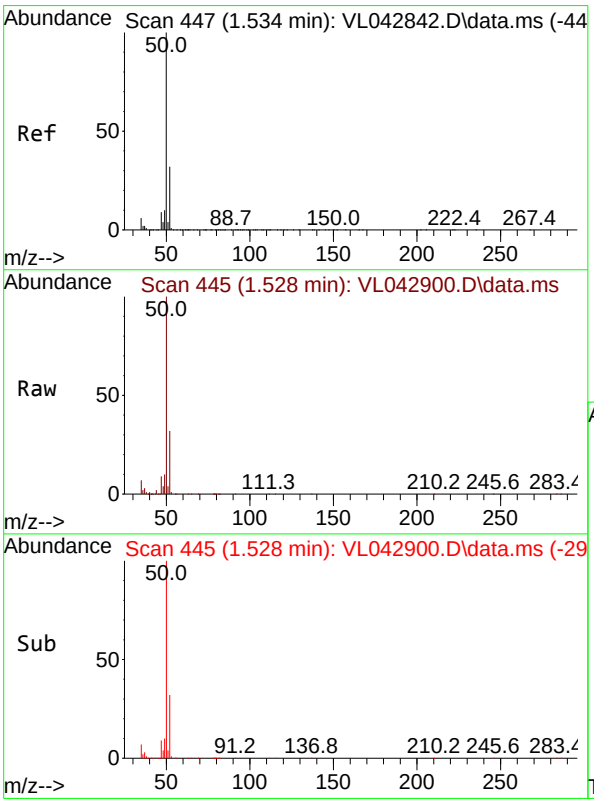
Ion	Ratio	Lower	Upper
51	100		
67	17.5	14.9	22.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

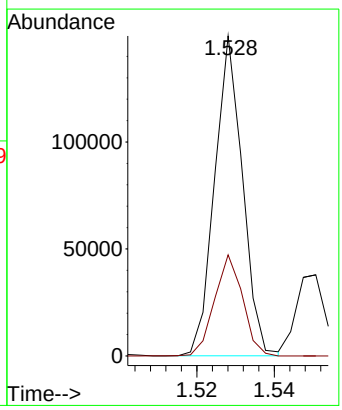
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

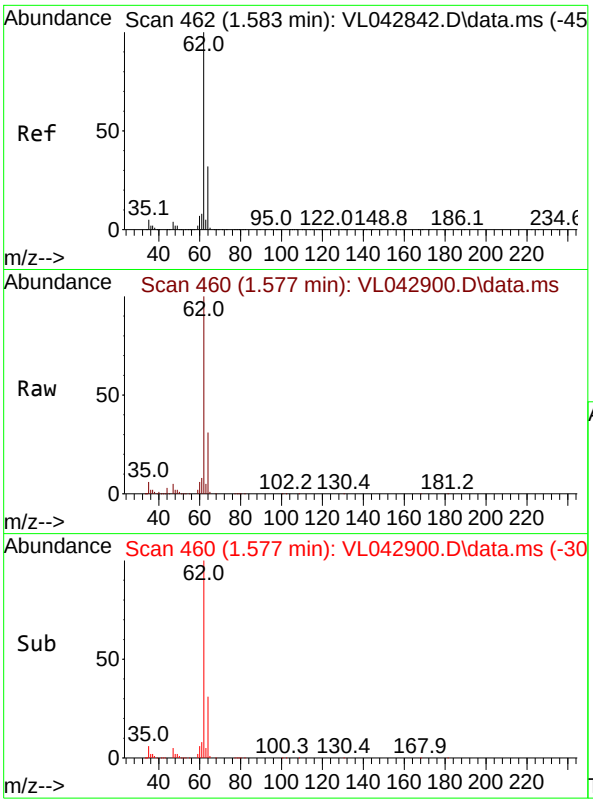


#4
Chloromethane
Concen: 9.988 ppbv
RT: 1.528 min Scan# 445
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 50 Resp: 74830

Ion	Ratio	Lower	Upper
50	100		
52	31.6	25.9	38.9

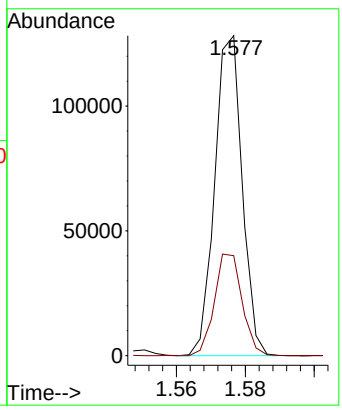




#5
Vinyl Chloride
Concen: 9.609 ppbv
RT: 1.577 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 62 Resp: 7089

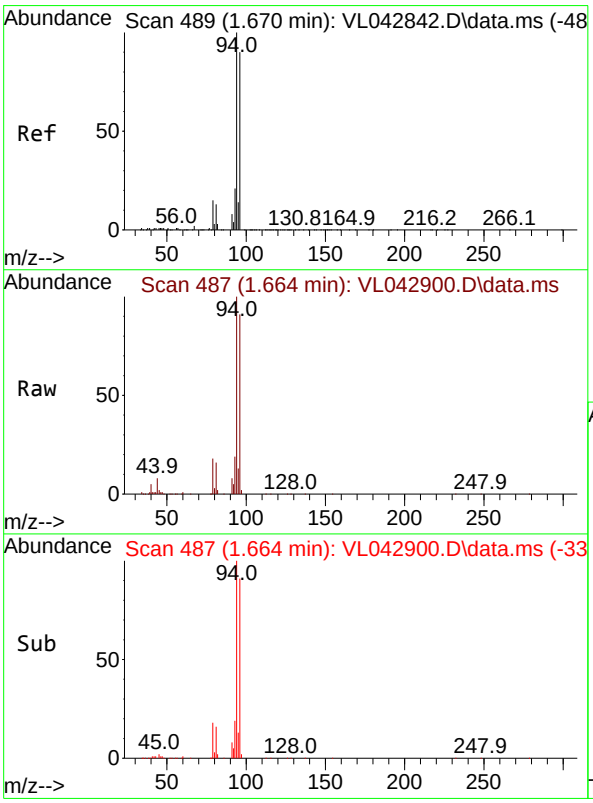
Ion	Ratio	Lower	Upper
62	100		
64	31.3	25.4	38.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

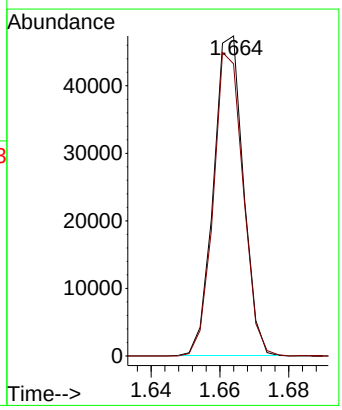
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

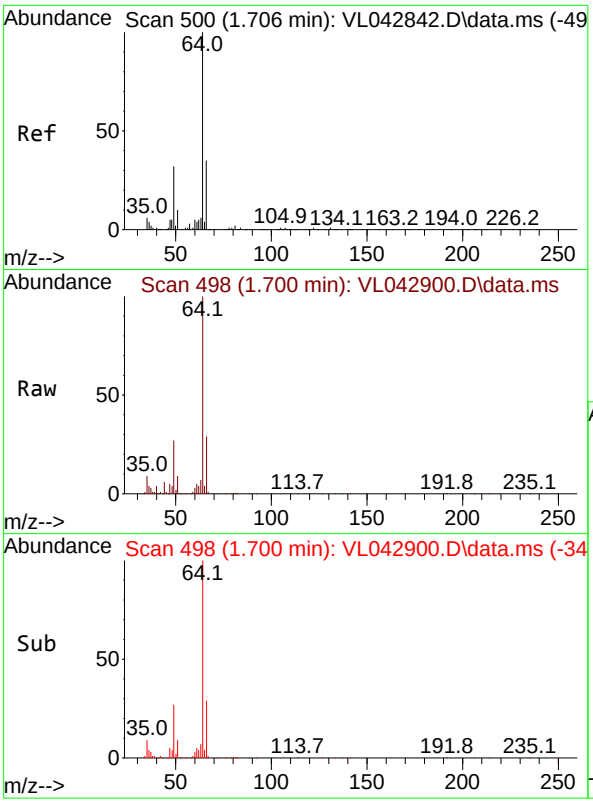


#6
Bromomethane
Concen: 9.659 ppbv
RT: 1.664 min Scan# 487
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 94 Resp: 28498

Ion	Ratio	Lower	Upper
94	100		
96	91.4	72.1	108.1

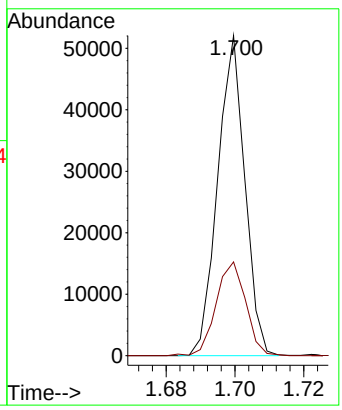




#7
Chloroethane
Concen: 9.889 ppbv
RT: 1.700 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 64 Resp: 2849

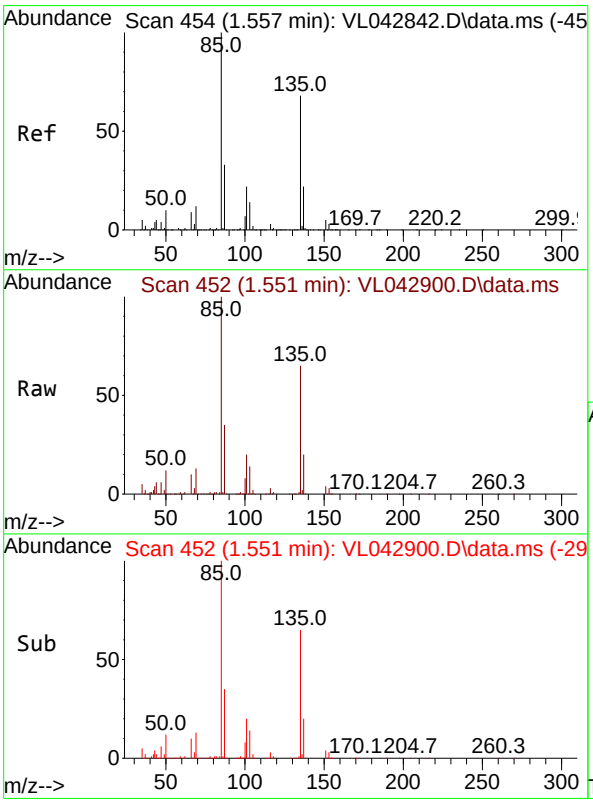
Ion	Ratio	Lower	Upper
64	100		
66	29.3	28.6	42.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

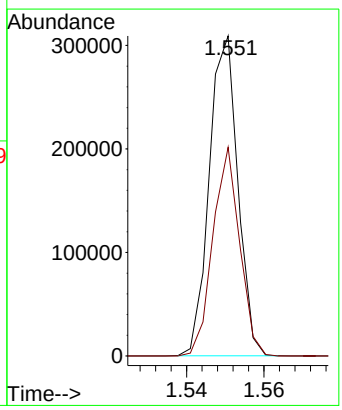
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

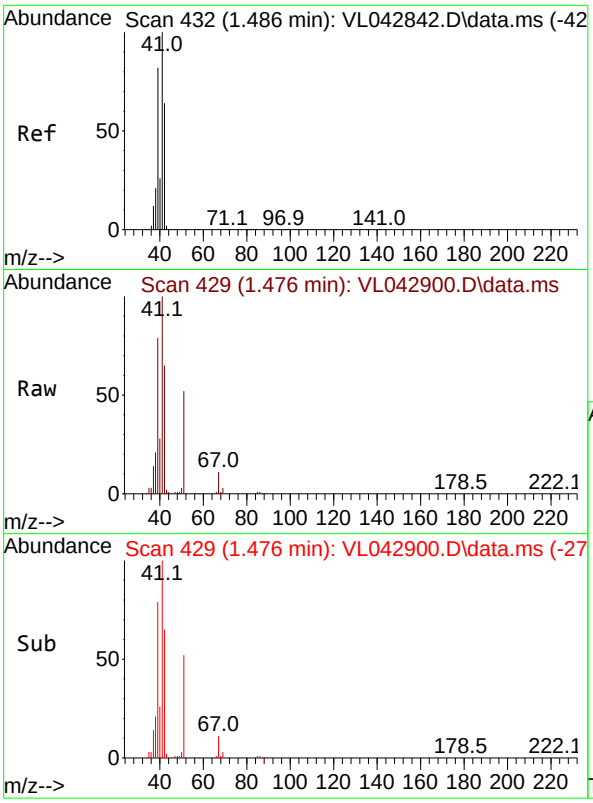


#8
Dichlorotetrafluoroethane
Concen: 10.420 ppbv
RT: 1.551 min Scan# 452
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 85 Resp: 158303

Ion	Ratio	Lower	Upper
85	100		
135	61.2	51.2	76.8

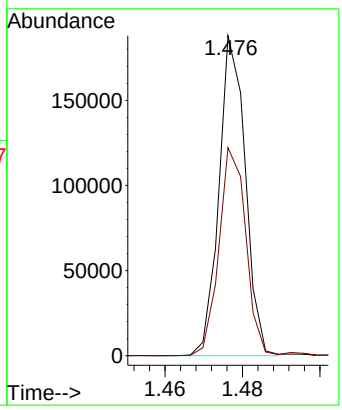




#9
Propene
Concen: 10.009 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 41 Resp: 8870

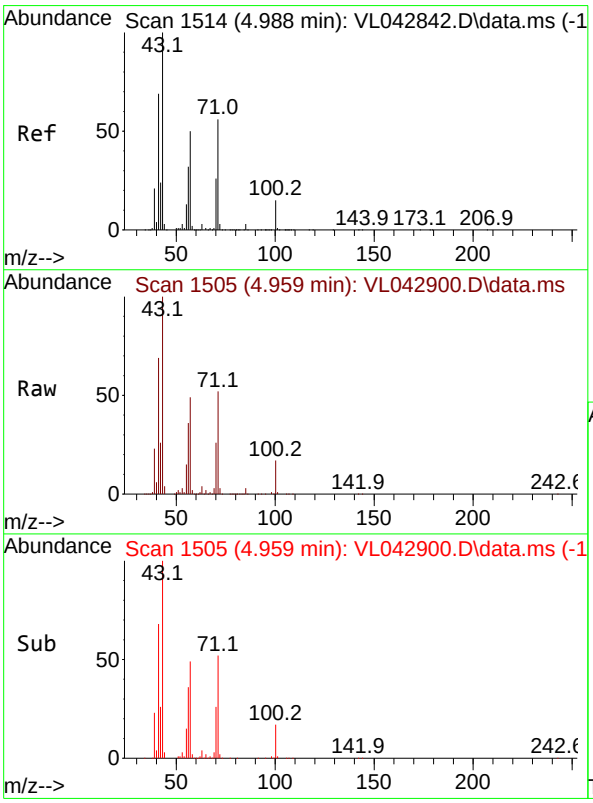
Ion	Ratio	Lower	Upper
41	100		
42	67.1	53.0	79.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

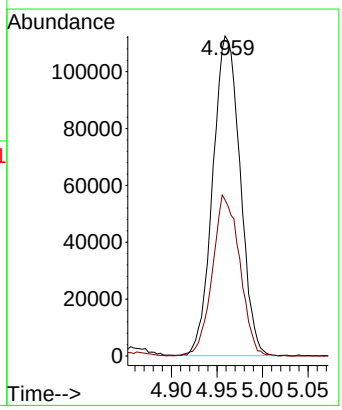
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

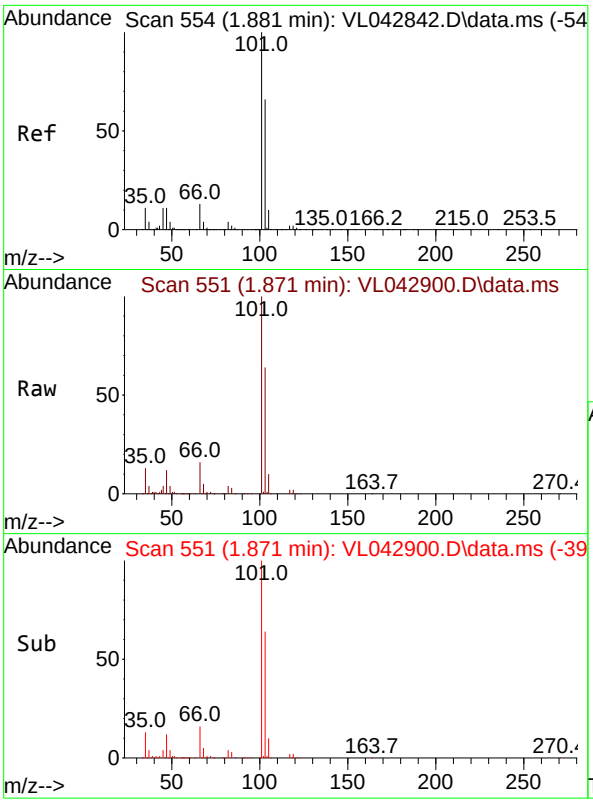


#10
Heptane
Concen: 9.898 ppbv
RT: 4.959 min Scan# 1505
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 43 Resp: 234952

Ion	Ratio	Lower	Upper
43	100		
57	50.2	41.4	62.0

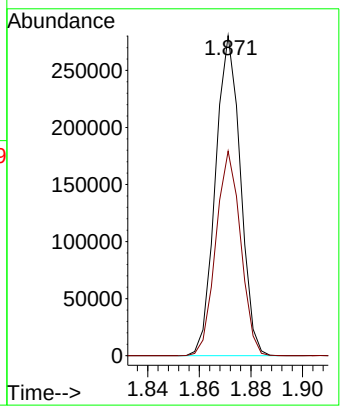




#11
Trichlorofluoromethane
Concen: 10.280 ppbv
RT: 1.871 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion:101 Resp: 18830

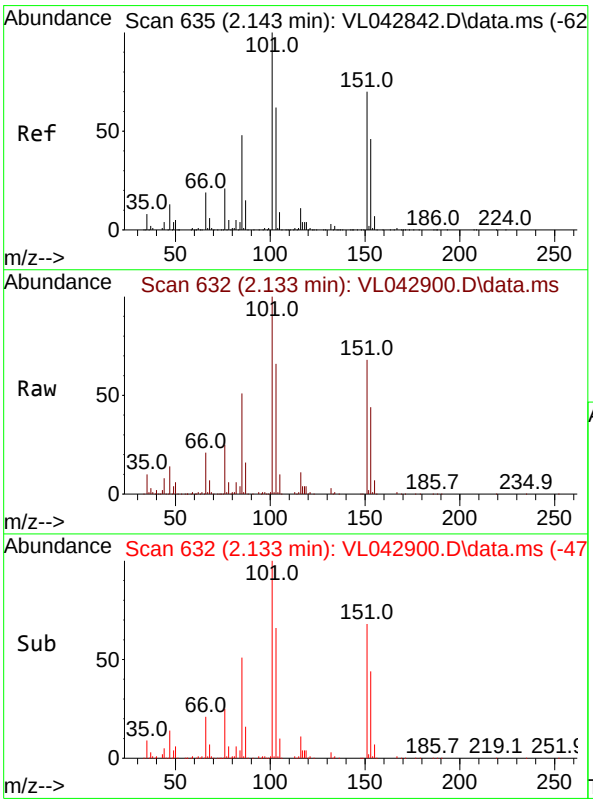
Ion	Ratio	Lower	Upper
101	100		
103	63.9	52.5	78.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

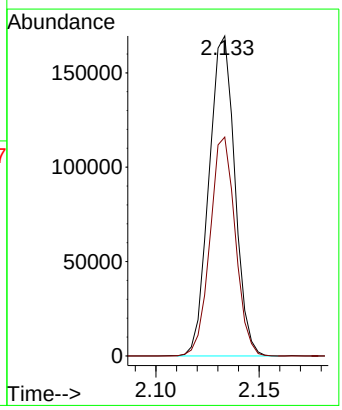
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

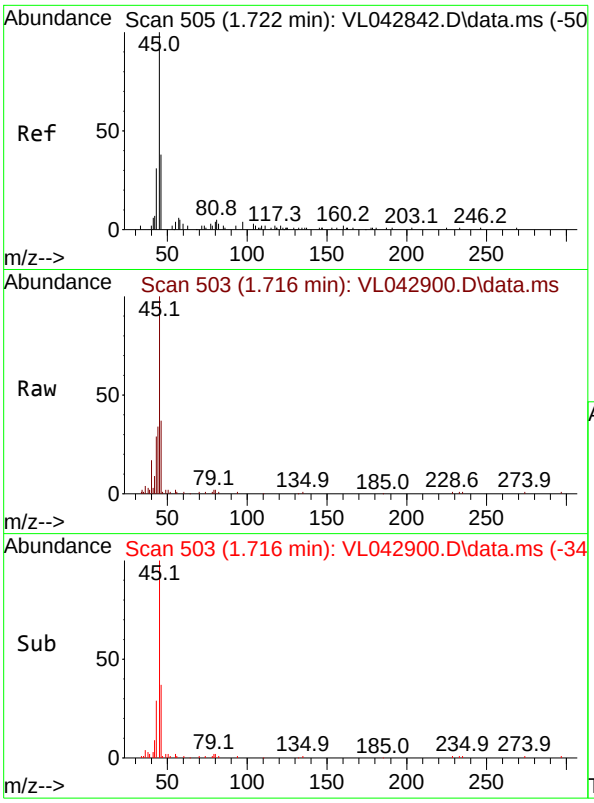


#12
1,1,2-Trichlorotrifluoroethane
Concen: 10.089 ppbv
RT: 2.133 min Scan# 632
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion:101 Resp: 147287

Ion	Ratio	Lower	Upper
101	100		
151	66.9	56.4	84.6

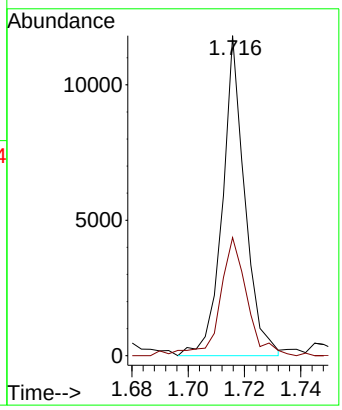




#13
Ethanol
Concen: 8.052 ppbv
RT: 1.716 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 45 Resp: 652

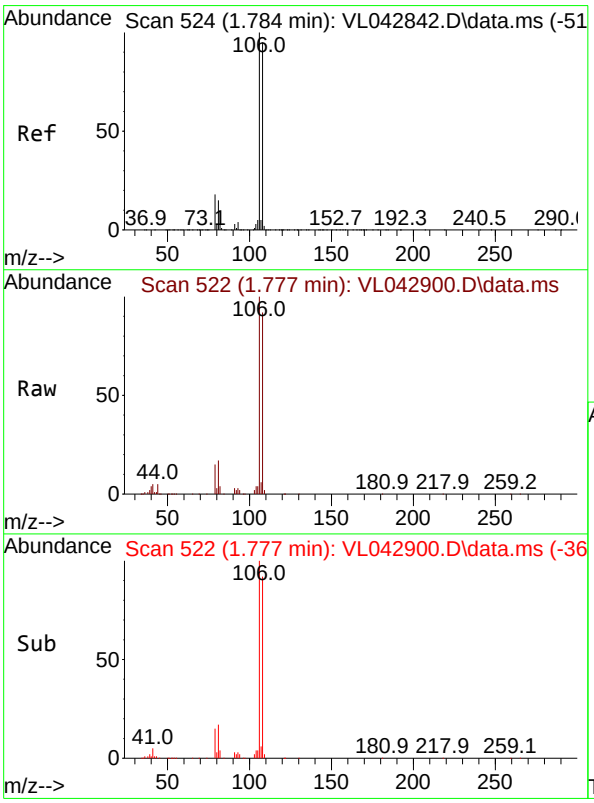
Ion	Ratio	Lower	Upper
45	100		
46	44.8	17.5	69.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
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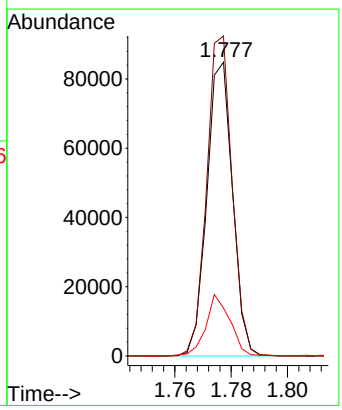
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

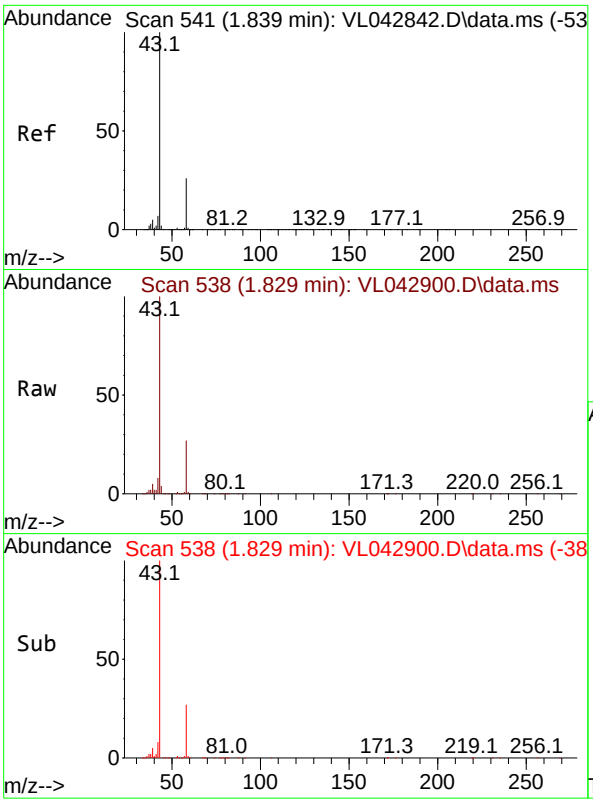


#14
Bromoethene
Concen: 10.171 ppbv
RT: 1.777 min Scan# 522
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion:108 Resp: 53755

Ion	Ratio	Lower	Upper
108	100		
106	107.9	85.1	127.7
79	19.9	16.3	24.5

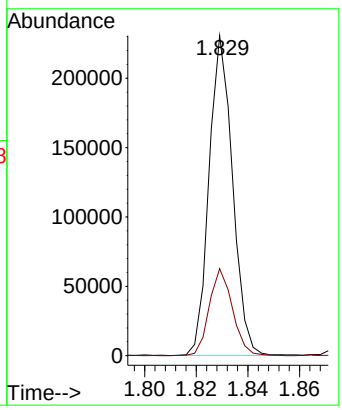




#15
Acetone
Concen: 8.670 ppbv
RT: 1.829 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 43 Resp: 14528

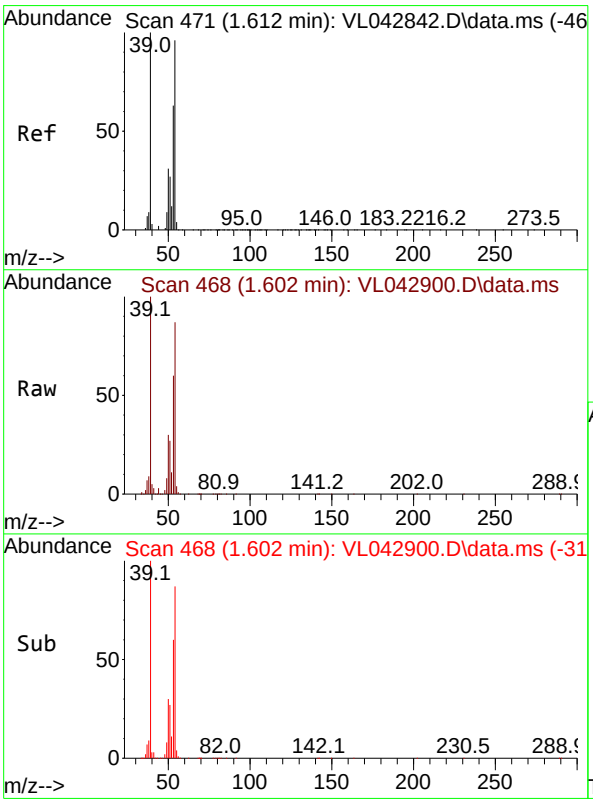
Ion	Ratio	Lower	Upper
43	100		
58	27.0	22.4	33.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
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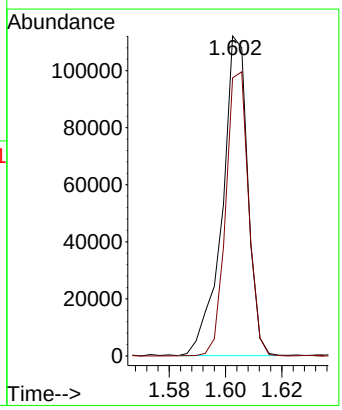
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

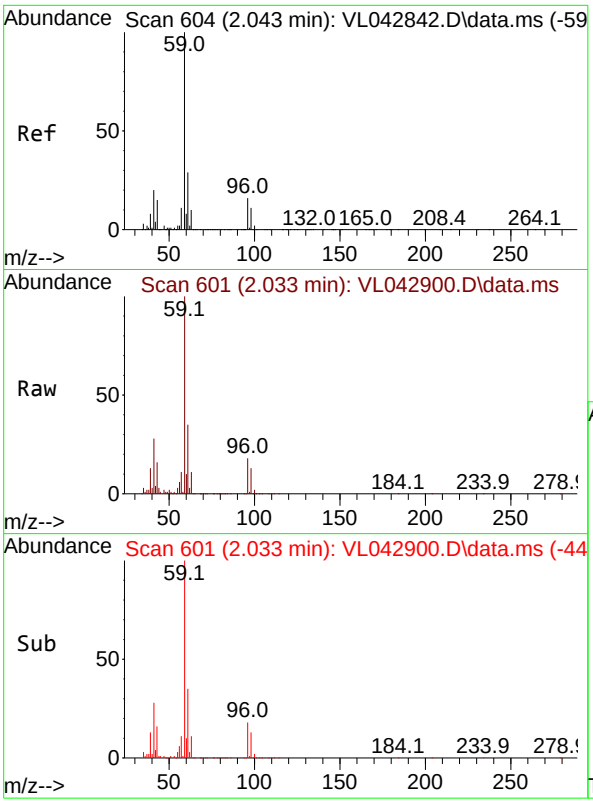


#16
1,3-Butadiene
Concen: 9.308 ppbv
RT: 1.602 min Scan# 468
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 39 Resp: 70713

Ion	Ratio	Lower	Upper
39	100		
54	79.5	63.6	95.4





#17
tert-Butyl alcohol
Concen: 8.574 ppbv
RT: 2.033 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

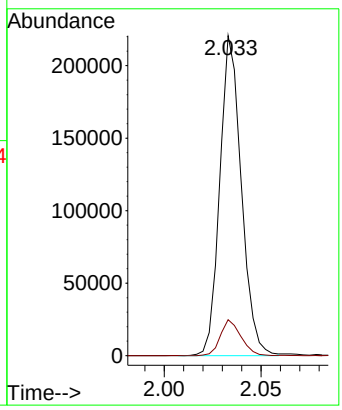
Tgt Ion: 59 Resp: 17039

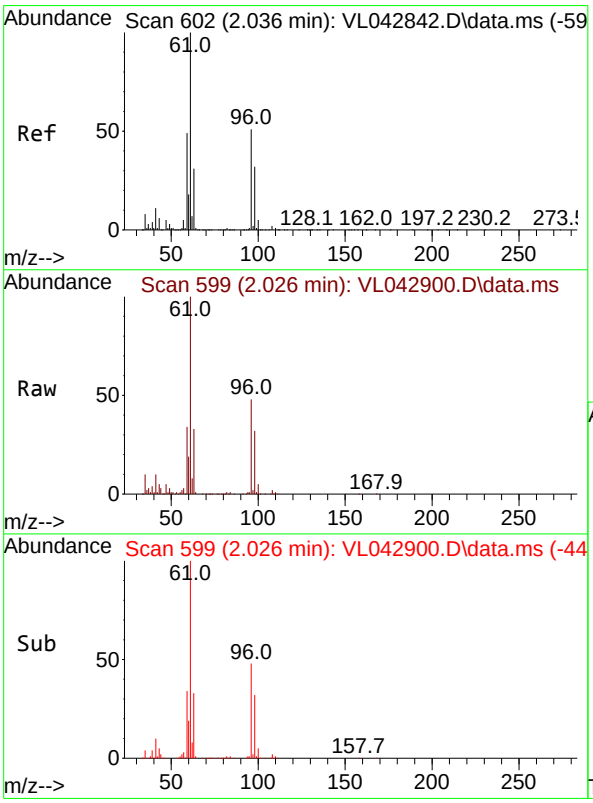
Ion	Ratio	Lower	Upper
59	100		
57	10.8	9.0	13.4

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

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Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

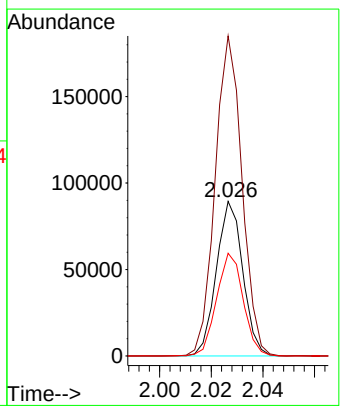


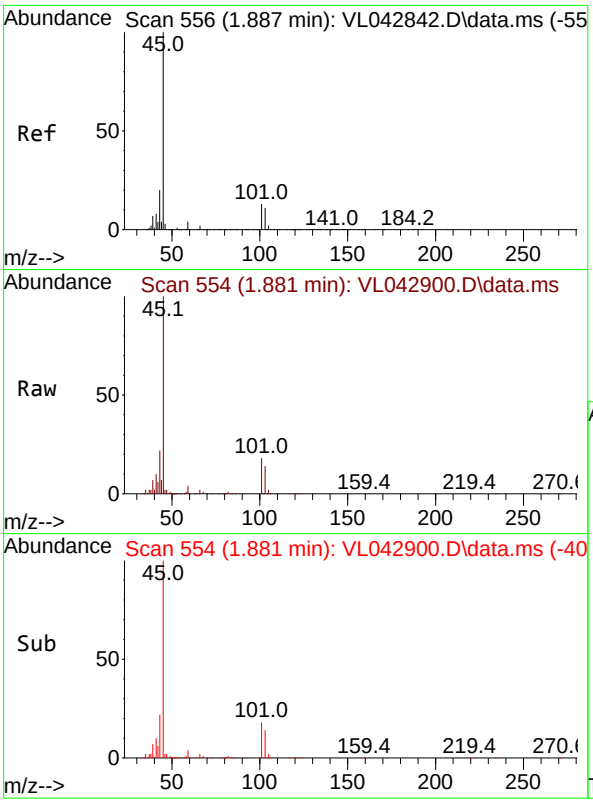


#18
1,1-Dichloroethene
Concen: 9.900 ppbv
RT: 2.026 min Scan# 599
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 96 Resp: 63544

Ion	Ratio	Lower	Upper
96	100		
61	207.0	158.2	237.4
98	66.3	50.6	76.0

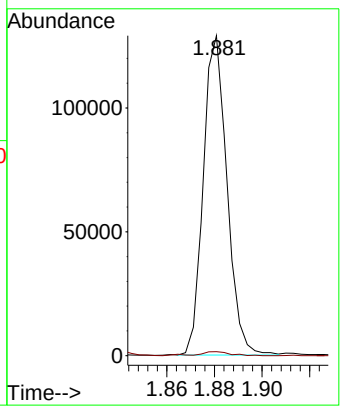




#19
Isopropyl Alcohol
Concen: 8.893 ppbv
RT: 1.881 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 45 Resp: 8900

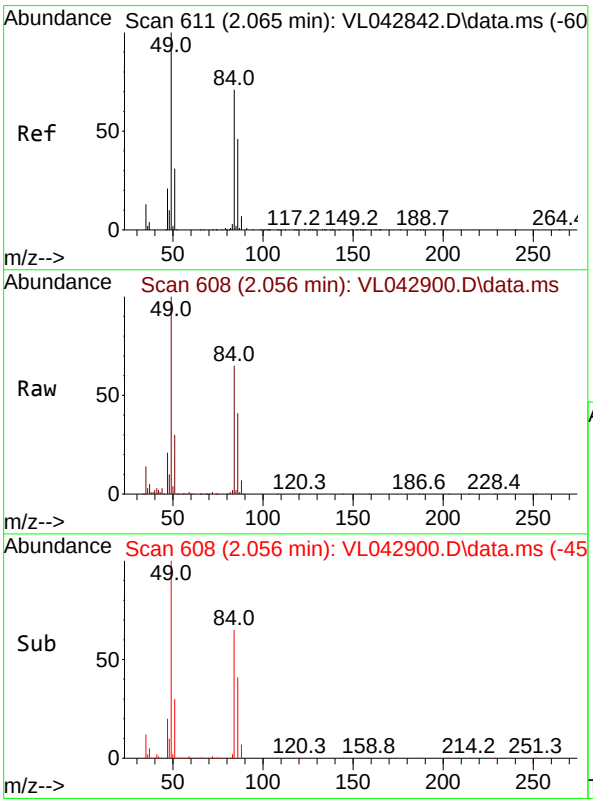
Ion	Ratio	Lower	Upper
45	100		
58	44.1	32.7	49.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
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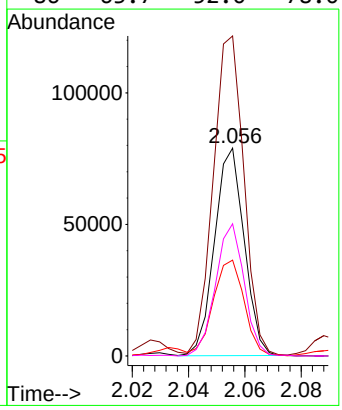
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

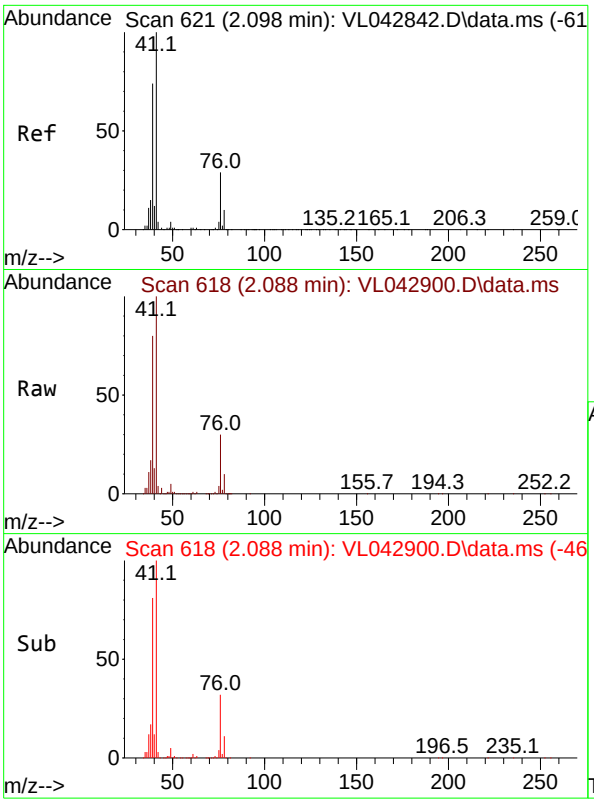


#20
Methylene Chloride
Concen: 8.219 ppbv
RT: 2.056 min Scan# 608
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 84 Resp: 57698

Ion	Ratio	Lower	Upper
84	100		
49	153.6	112.3	168.5
51	45.6	36.0	54.0
86	63.7	52.0	78.0

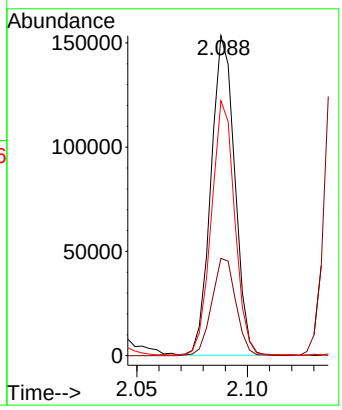




#21
Allyl Chloride
Concen: 9.658 ppbv
RT: 2.088 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 41 Resp: 11433

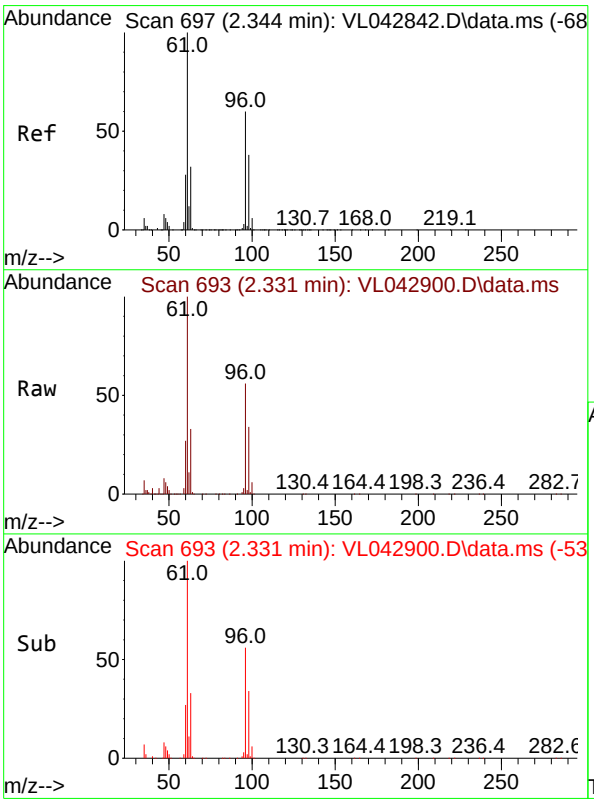
Ion	Ratio	Lower	Upper
41	100		
76	30.9	23.9	35.9
39	78.4	57.8	86.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

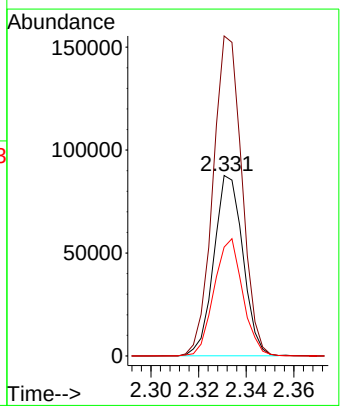
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

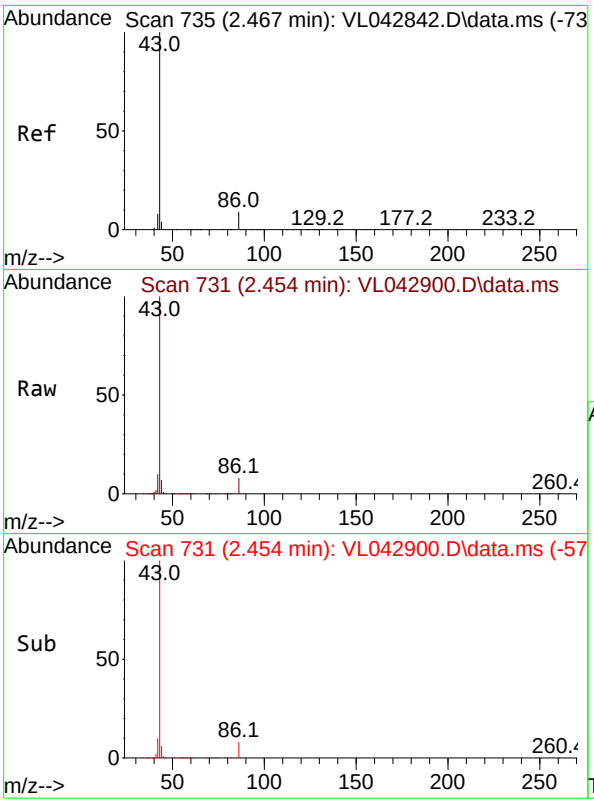


#22
trans-1,2-Dichloroethene
Concen: 9.971 ppbv
RT: 2.331 min Scan# 693
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 96 Resp: 74045

Ion	Ratio	Lower	Upper
96	100		
61	177.5	132.6	199.0
98	60.3	50.0	75.0

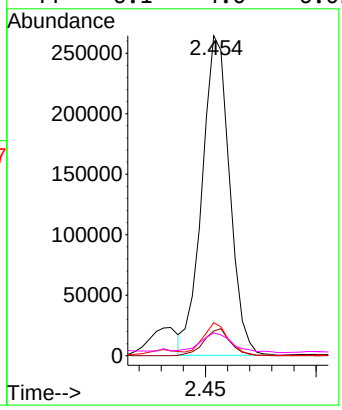




#23
Vinyl Acetate
Concen: 9.907 ppbv
RT: 2.454 min Scan# 7
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 43 Resp: 22826

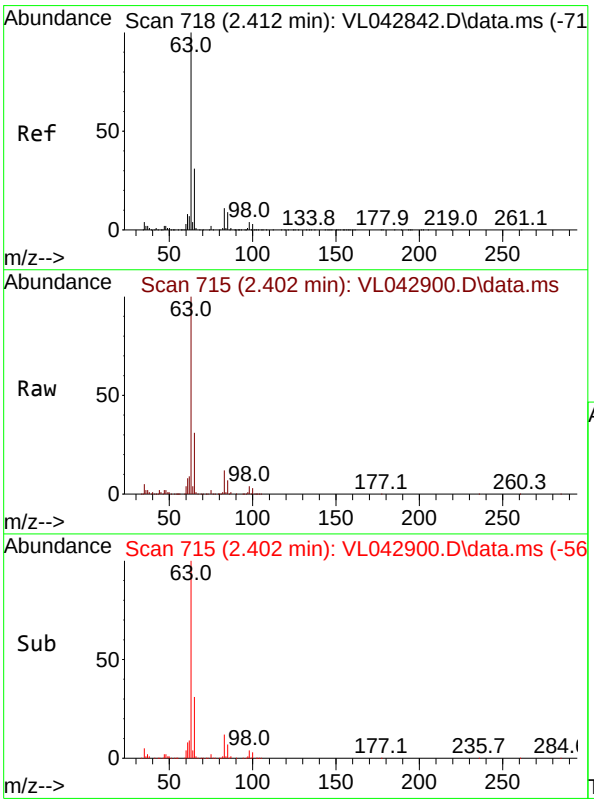
Ion	Ratio	Lower	Upper
43	100		
86	7.7	6.6	9.8
42	10.3	7.0	10.6
44	6.1	4.0	6.0#



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

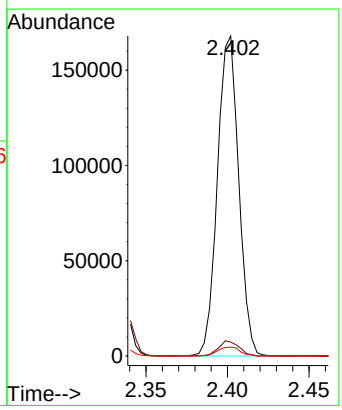
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

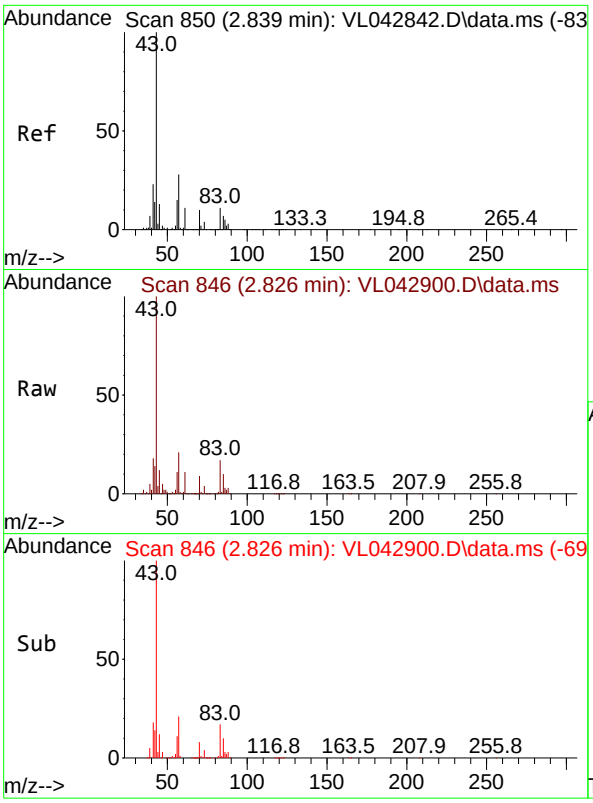


#24
1,1-Dichloroethane
Concen: 10.291 ppbv
RT: 2.402 min Scan# 715
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 63 Resp: 152618

Ion	Ratio	Lower	Upper
63	100		
98	4.4	2.1	6.5
100	2.7	1.7	5.1

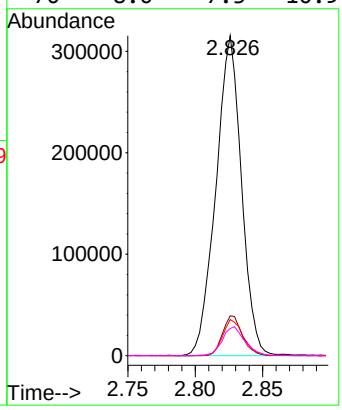




#25
Ethyl Acetate
Concen: 10.242 ppbv
RT: 2.826 min Scan# 84
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 43 Resp: 41538

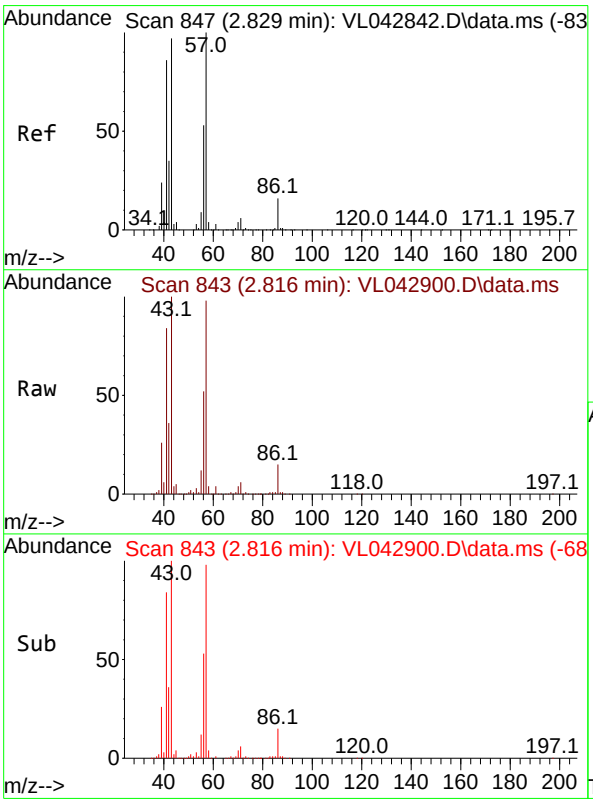
Ion	Ratio	Lower	Upper
43	100		
45	9.9	8.1	12.1
61	9.0	7.4	11.2
70	8.0	7.3	10.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
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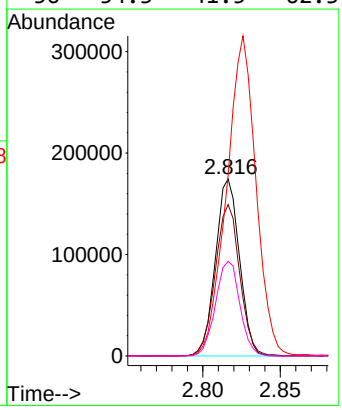
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

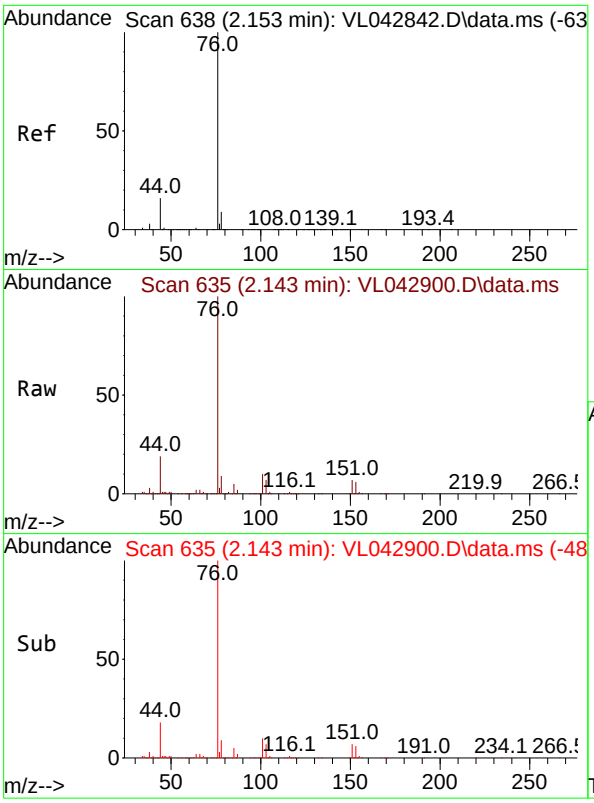


#26
Hexane
Concen: 10.031 ppbv
RT: 2.816 min Scan# 843
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 57 Resp: 187779

Ion	Ratio	Lower	Upper
57	100		
41	87.6	68.6	103.0
43	222.1	168.5	252.7
56	54.3	41.5	62.3





#27
Carbon Disulfide
Concen: 10.608 ppbv
RT: 2.143 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

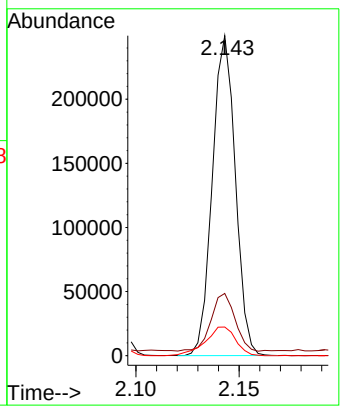
Tgt Ion: 76 Resp: 19326

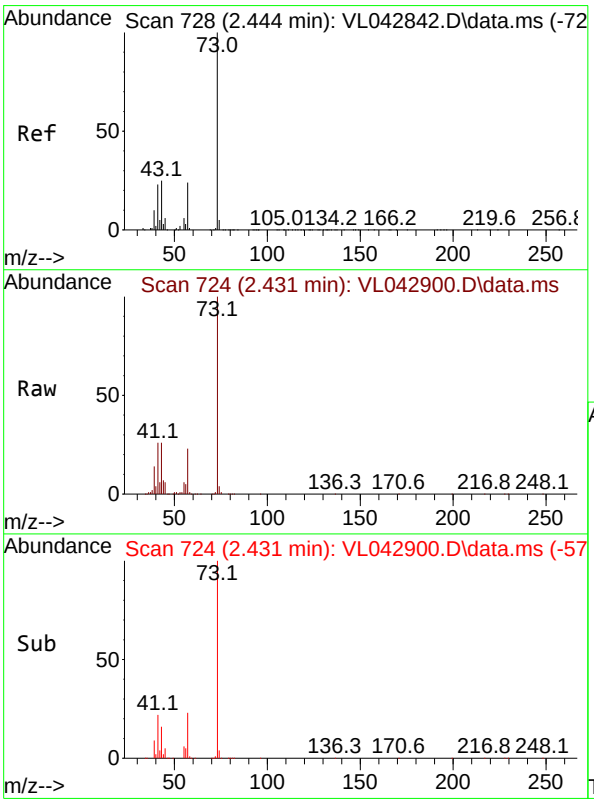
Ion	Ratio	Lower	Upper
76	100		
44	18.7	15.9	23.9
78	11.8	9.5	14.3

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

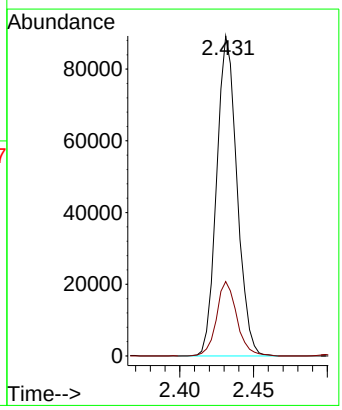


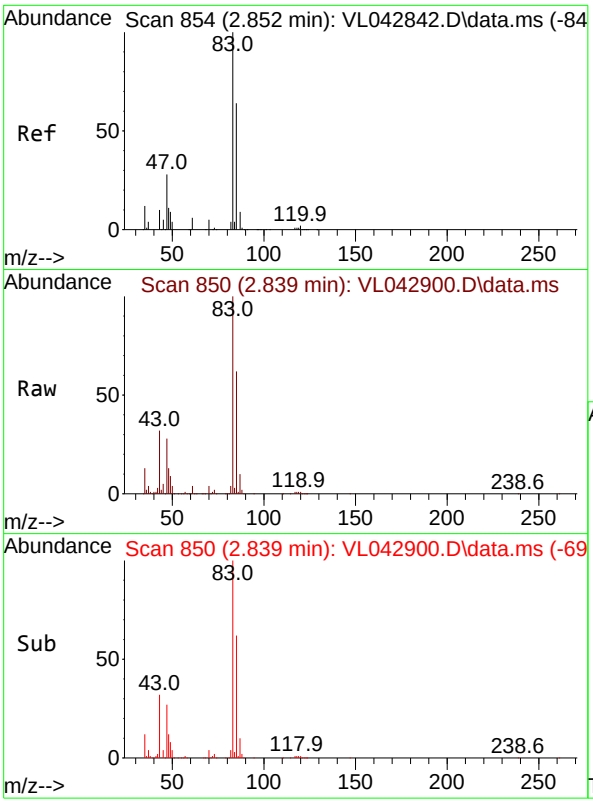


#28
Methyl tert-Butyl Ether
Concen: 8.986 ppbv
RT: 2.431 min Scan# 724
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 73 Resp: 85774

Ion	Ratio	Lower	Upper
73	100		
57	23.3	21.6	32.4

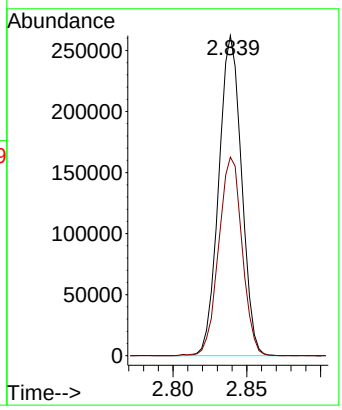




#29
Chloroform
Concen: 10.538 ppbv
RT: 2.839 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 83 Resp: 28165

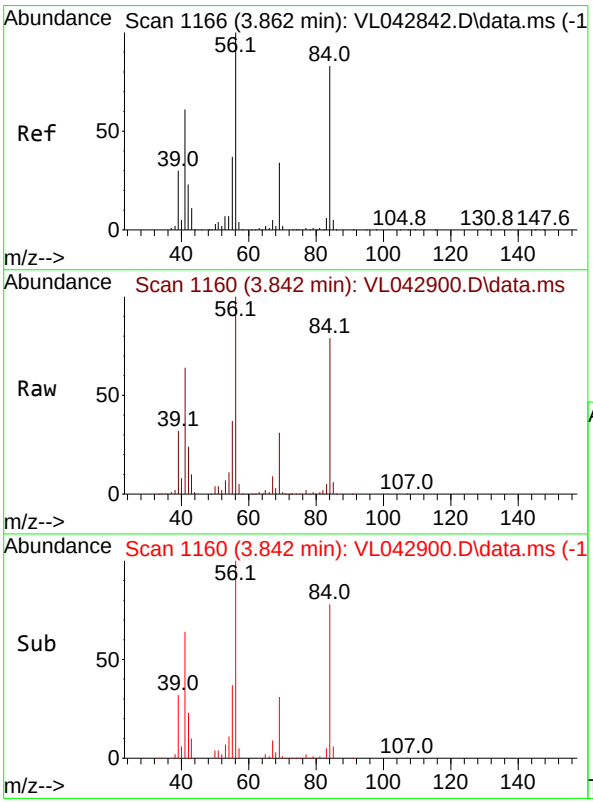
Ion	Ratio	Lower	Upper
83	100		
85	62.0	51.1	76.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
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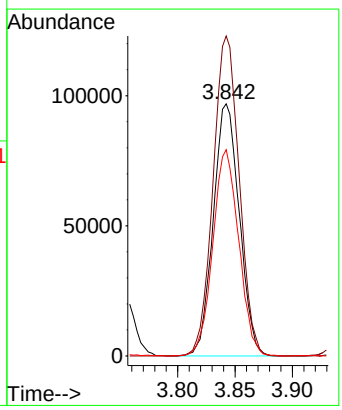
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

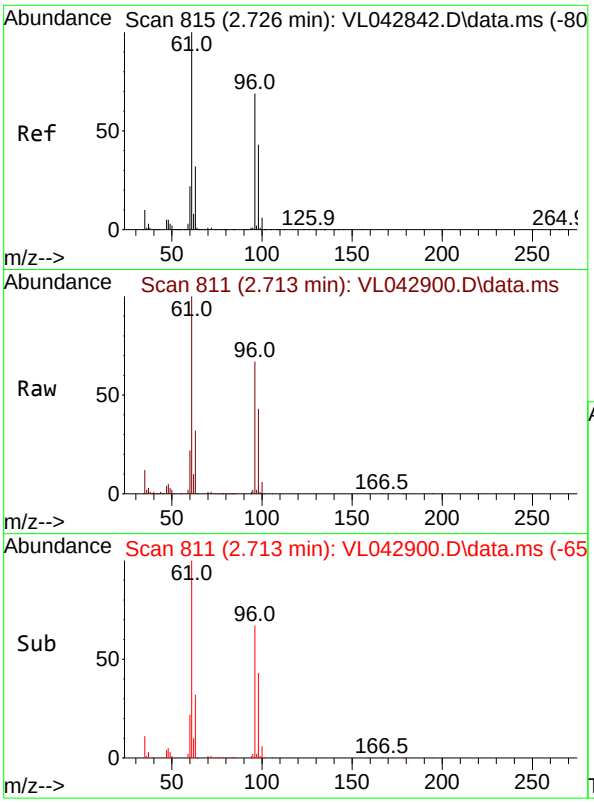


#30
Cyclohexane
Concen: 9.326 ppbv
RT: 3.842 min Scan# 1160
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 84 Resp: 153066

Ion	Ratio	Lower	Upper
84	100		
56	127.0	98.8	148.2
41	81.3	61.3	91.9

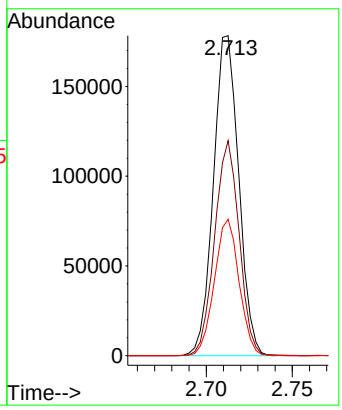




#31
cis-1,2-Dichloroethene
Concen: 9.765 ppbv
RT: 2.713 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 61 Resp: 18259

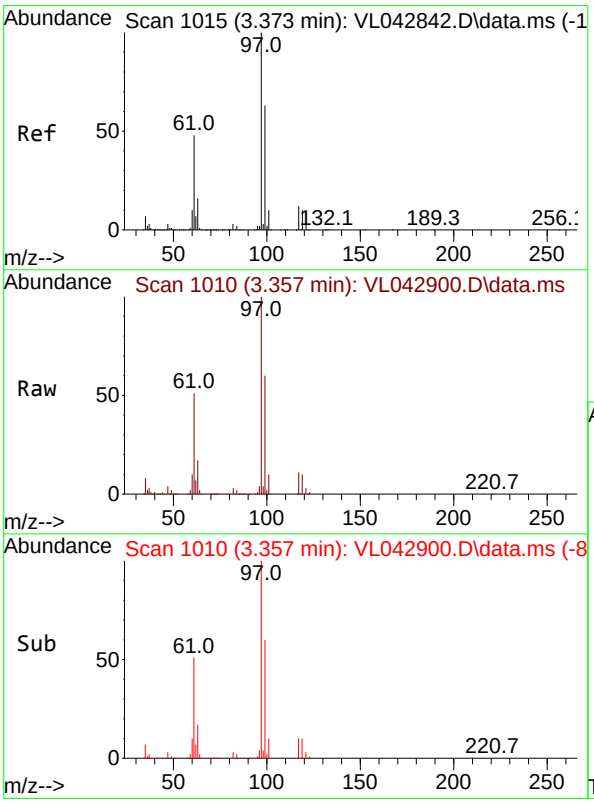
Ion	Ratio	Lower	Upper
61	100		
96	67.1	55.0	82.6
98	42.6	34.3	51.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

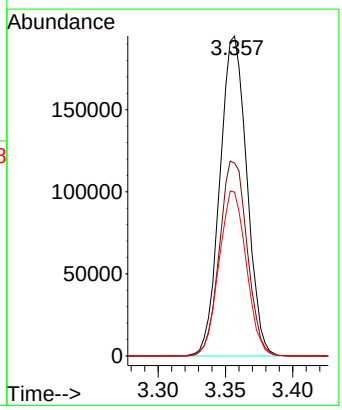
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

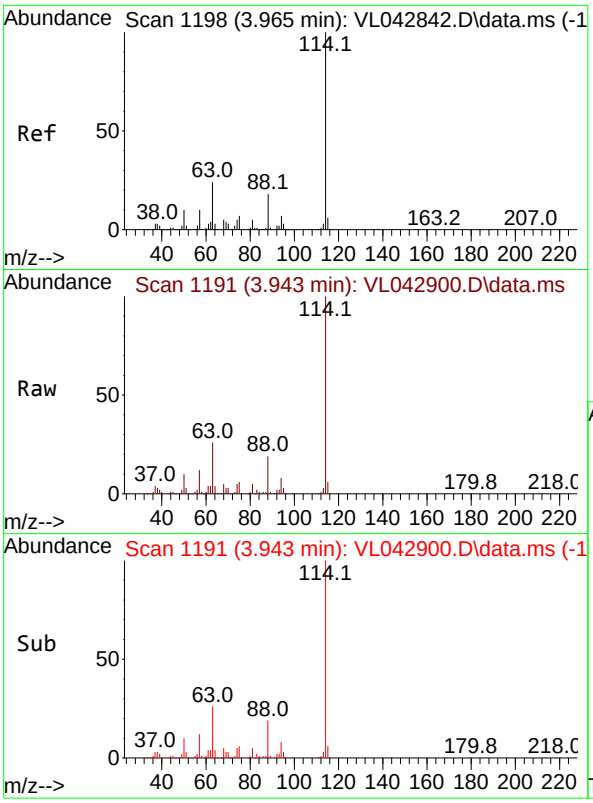


#32
1,1,1-Trichloroethane
Concen: 9.609 ppbv
RT: 3.357 min Scan# 1010
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 97 Resp: 271429

Ion	Ratio	Lower	Upper
97	100		
99	62.5	51.0	76.6
61	52.2	38.0	57.0

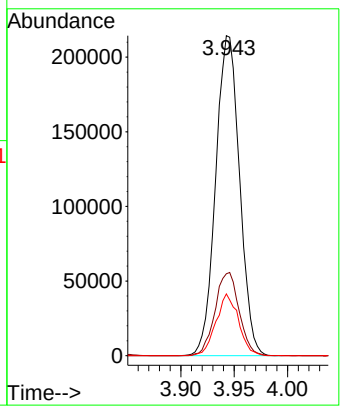




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.943 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion:114 Resp: 33360

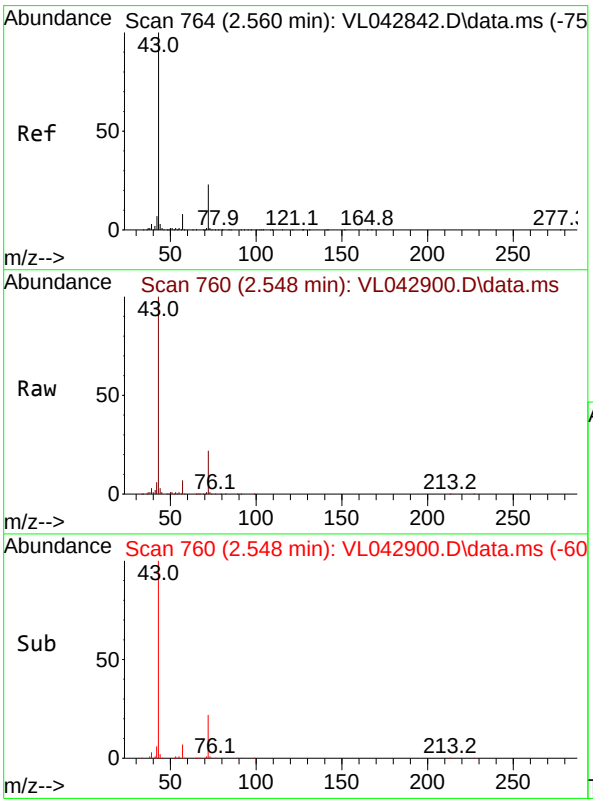
Ion	Ratio	Lower	Upper
114	100		
63	26.3	19.7	29.5
88	18.2	14.4	21.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
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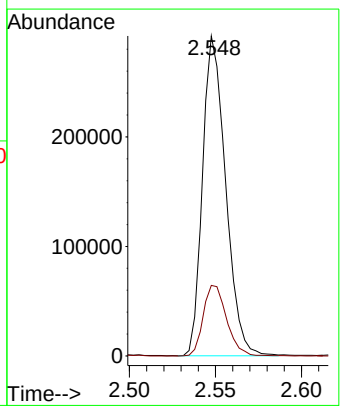
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

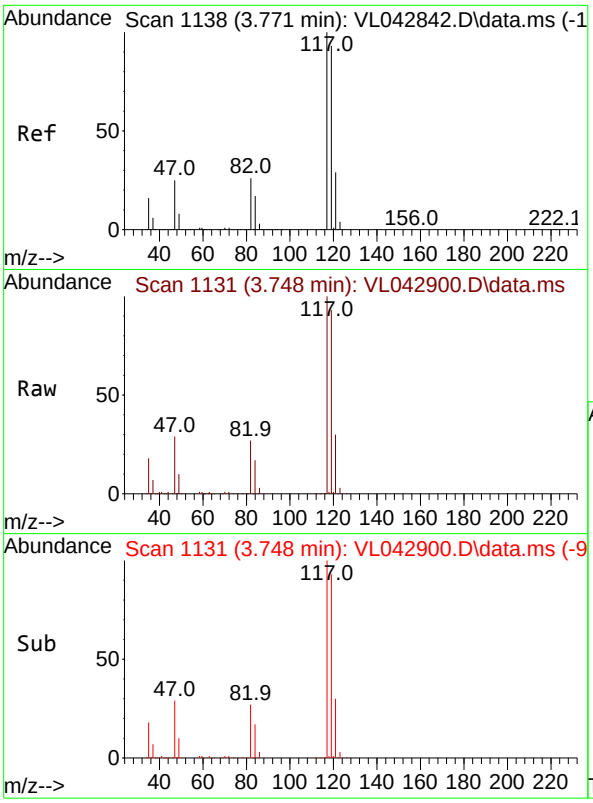


#34
2-Butanone
Concen: 12.107 ppbv
RT: 2.548 min Scan# 760
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 43 Resp: 272735

Ion	Ratio	Lower	Upper
43	100		
72	22.4	18.6	28.0

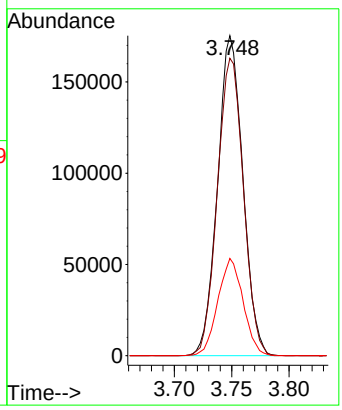




#35
Carbon Tetrachloride
Concen: 11.700 ppbv
RT: 3.748 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion:117 Resp: 26909

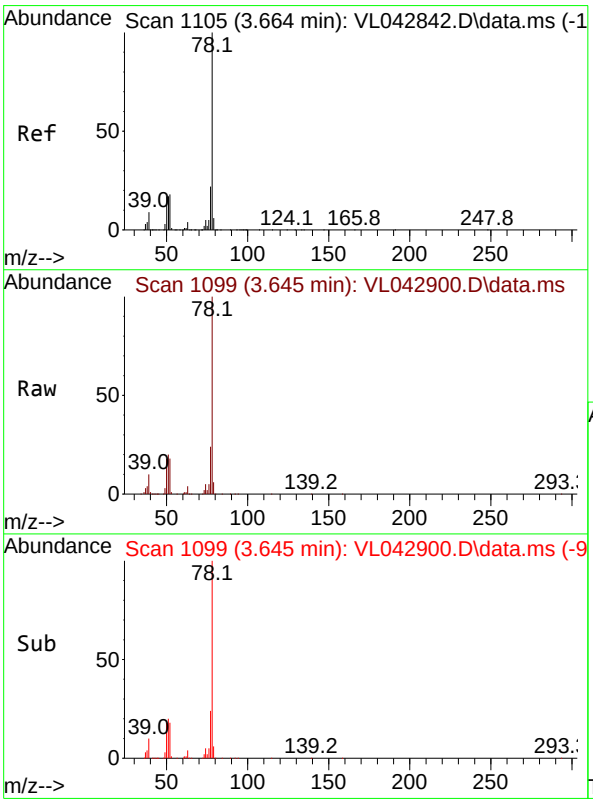
Ion	Ratio	Lower	Upper
117	100		
119	93.0	74.7	112.1
121	30.4	23.2	34.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
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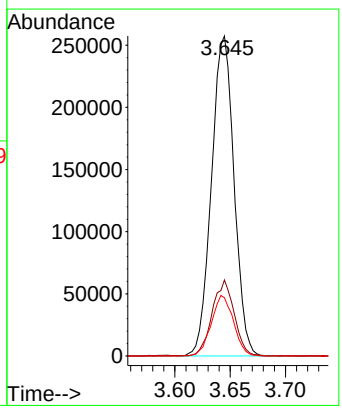
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

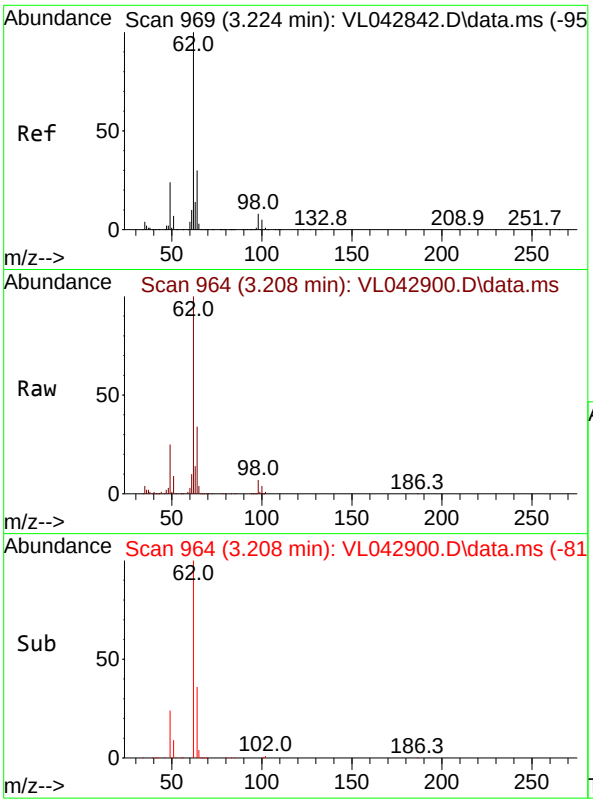


#36
Benzene
Concen: 11.458 ppbv
RT: 3.645 min Scan# 1099
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 78 Resp: 366027

Ion	Ratio	Lower	Upper
78	100		
77	23.7	17.7	26.5
50	18.2	13.9	20.9

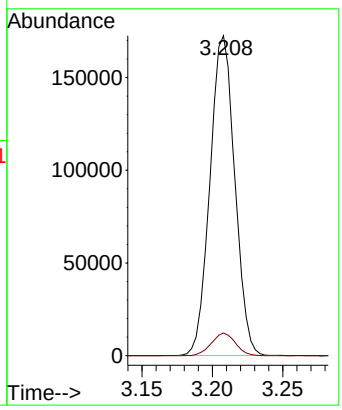




#37
1,2-Dichloroethane
Concen: 12.686 ppbv
RT: 3.208 min Scan# 9
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 62 Resp: 21172

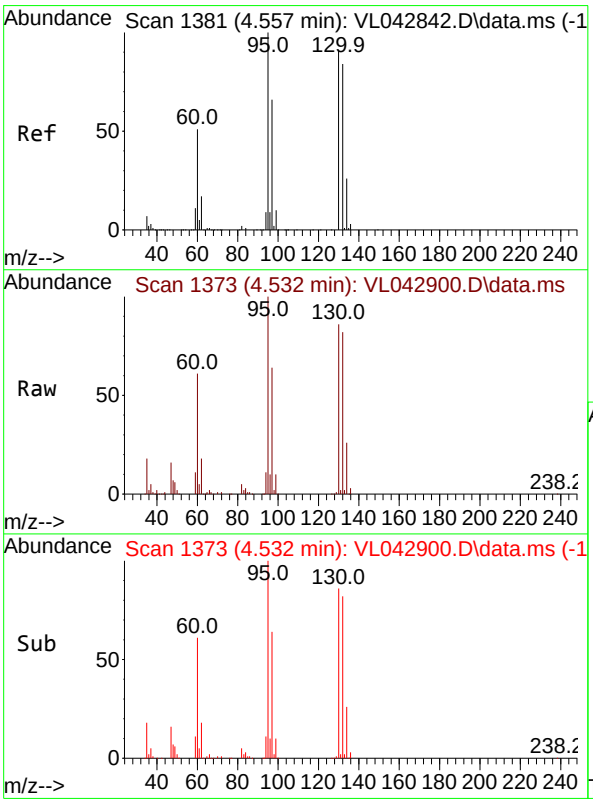
Ion	Ratio	Lower	Upper
62	100		
98	6.9	5.9	8.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
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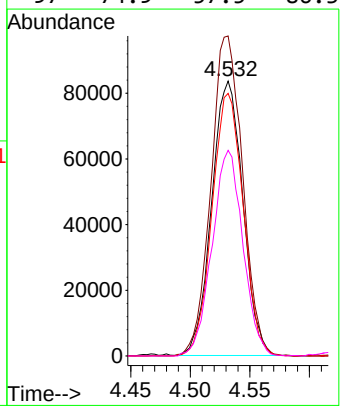
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

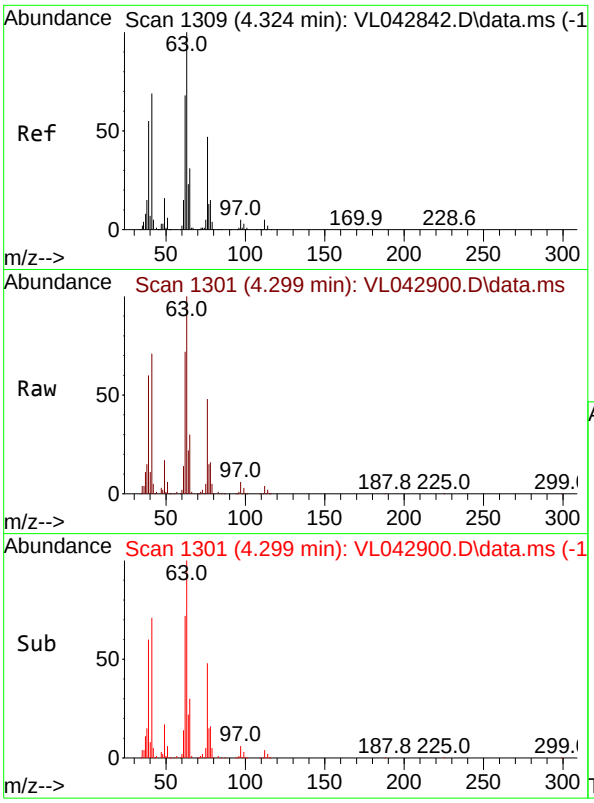


#38
Trichloroethene
Concen: 10.413 ppbv
RT: 4.532 min Scan# 1373
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion:130 Resp: 151915

Ion	Ratio	Lower	Upper
130	100		
95	116.1	87.6	131.4
132	95.4	73.8	110.8
97	74.9	57.5	86.3

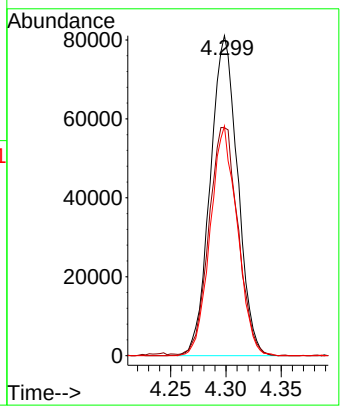




#39
1,2-Dichloropropane
Concen: 11.970 ppbv
RT: 4.299 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 63 Resp: 13965

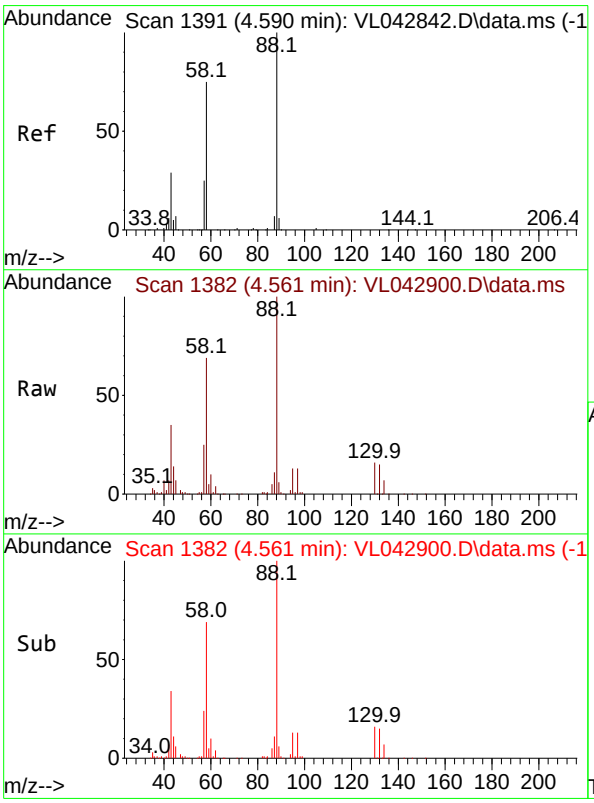
Ion	Ratio	Lower	Upper
63	100		
41	71.2	55.0	82.4
62	71.8	54.4	81.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

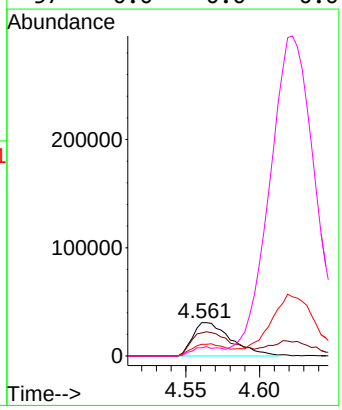
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

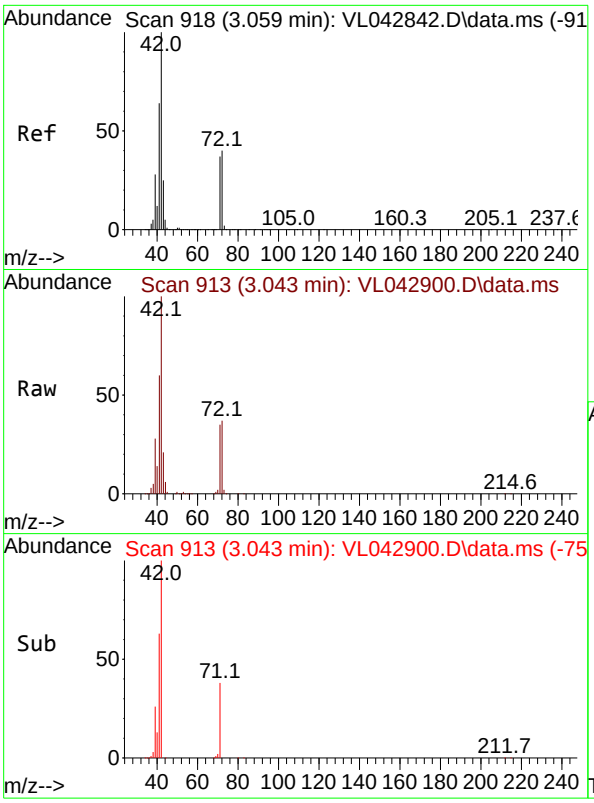


#40
1,4-Dioxane
Concen: 10.096 ppbv
RT: 4.561 min Scan# 1382
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 88 Resp: 56013

Ion	Ratio	Lower	Upper
88	100		
58	76.6	53.8	80.6
43	35.7	22.8	34.2#
57	0.0	0.0	0.0





#41
Tetrahydrofuran
Concen: 11.863 ppbv
RT: 3.043 min Scan# 9
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

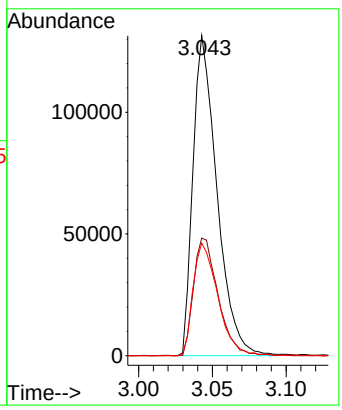
Tgt Ion: 42 Resp: 14899

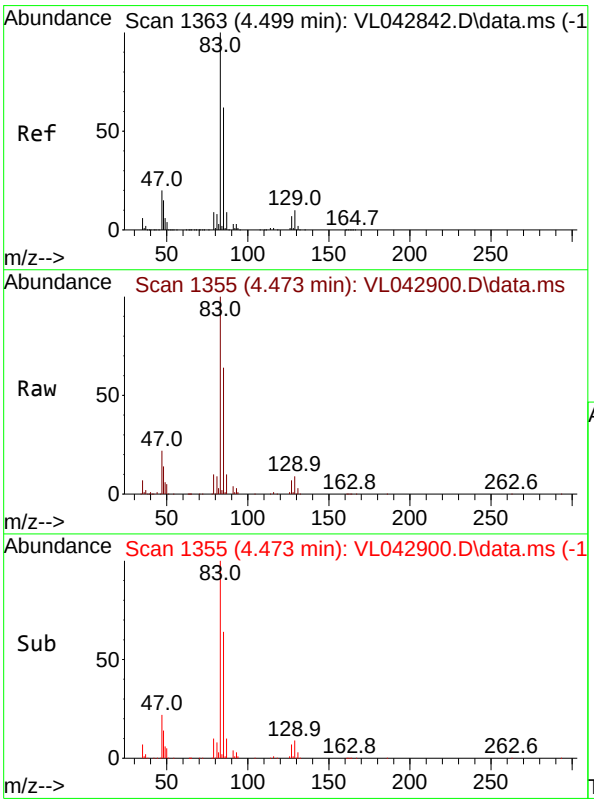
Ion	Ratio	Lower	Upper
42	100		
72	37.6	32.6	48.8
71	36.3	30.0	45.0

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

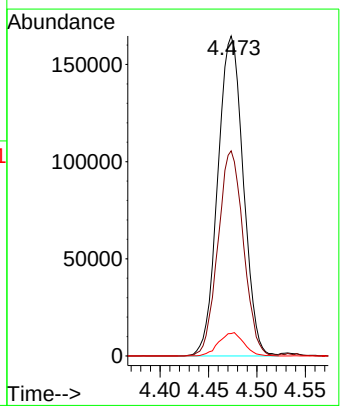


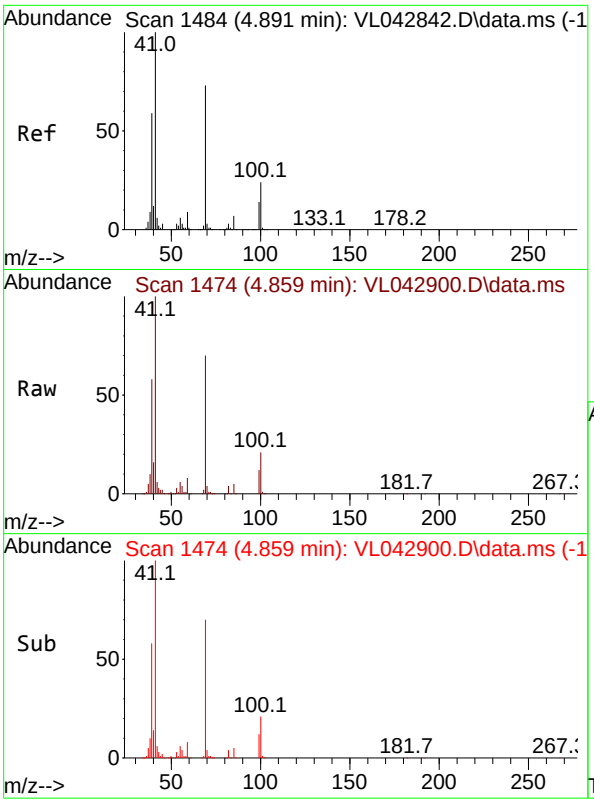


#42
Bromodichloromethane
Concen: 12.136 ppbv
RT: 4.473 min Scan# 1355
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 83 Resp: 301814

Ion	Ratio	Lower	Upper
83	100		
85	64.1	49.8	74.8
127	7.0	5.8	8.6

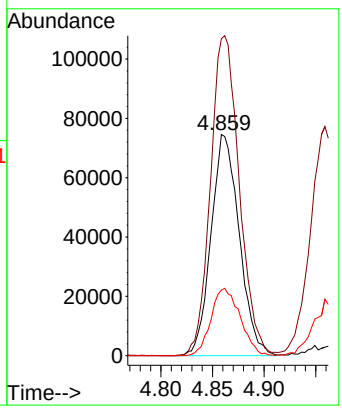




#43
Methyl Methacrylate
Concen: 10.776 ppbv
RT: 4.859 min Scan# 14
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 69 Resp: 14181

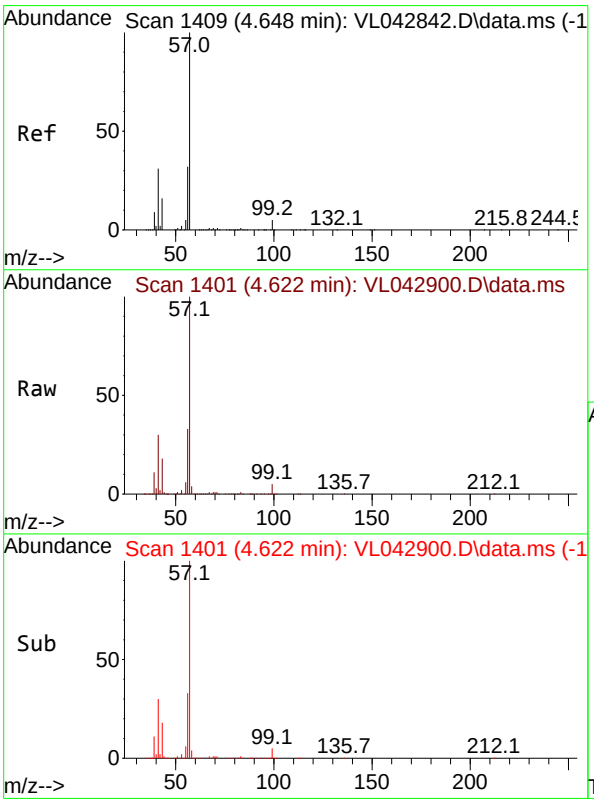
Ion	Ratio	Lower	Upper
69	100		
41	147.4	114.6	172.0
100	31.5	30.2	45.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
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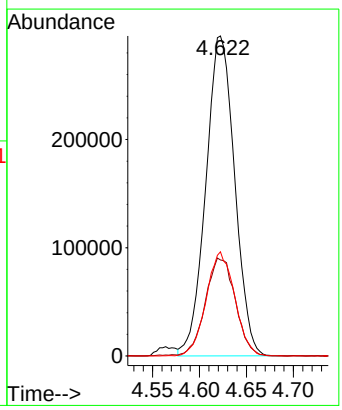
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

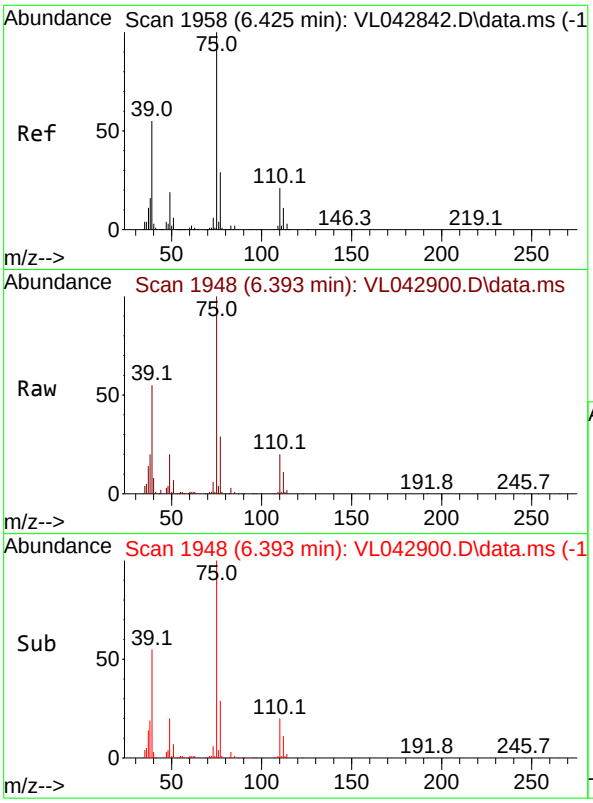


#44
2,2,4-Trimethylpentane
Concen: 11.642 ppbv
RT: 4.622 min Scan# 1401
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 57 Resp: 631245

Ion	Ratio	Lower	Upper
57	100		
41	32.0	24.8	37.2
56	32.2	25.5	38.3

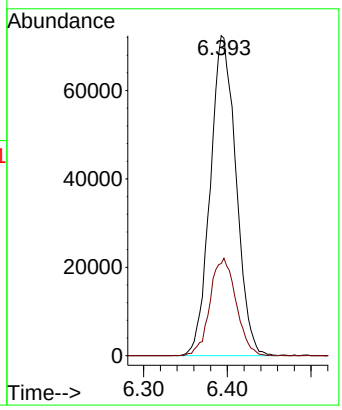




#45
t-1,3-Dichloropropene
Concen: 10.411 ppbv
RT: 6.393 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 75 Resp: 15462

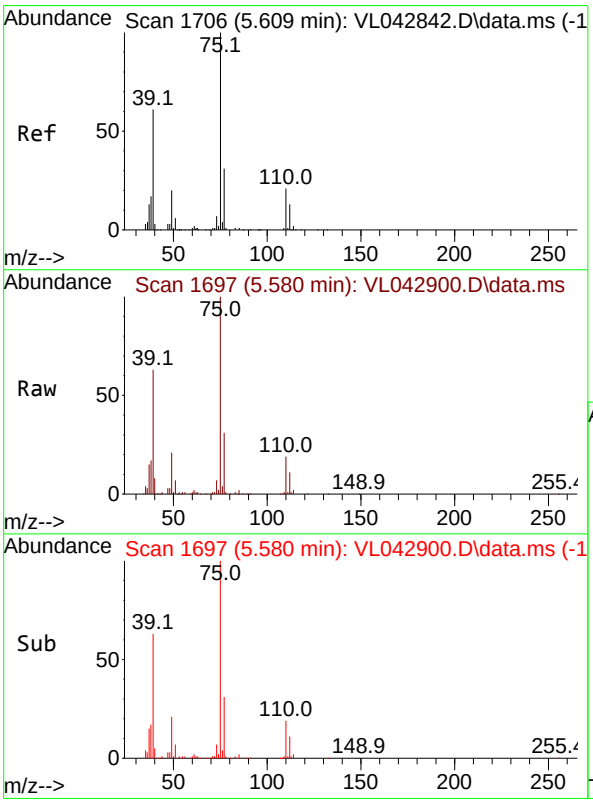
Ion	Ratio	Lower	Upper
75	100		
77	28.8	23.8	35.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

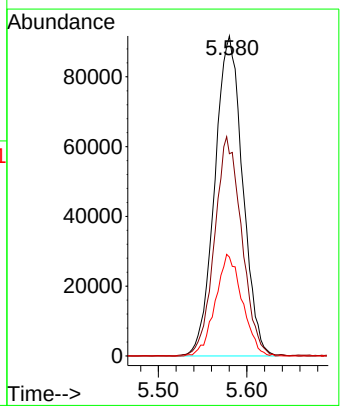
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

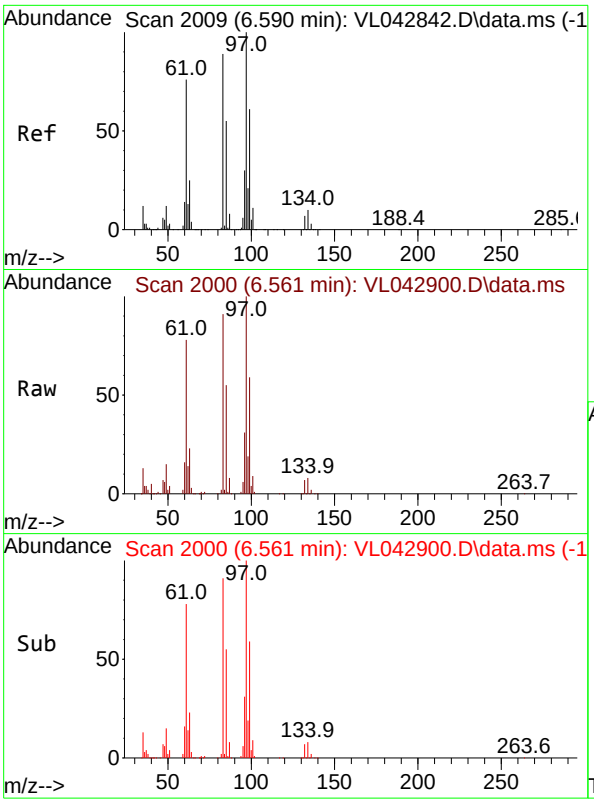


#46
cis-1,3-Dichloropropene
Concen: 10.851 ppbv
RT: 5.580 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 75 Resp: 200797

Ion	Ratio	Lower	Upper
75	100		
39	63.0	48.9	73.3
77	30.9	24.9	37.3

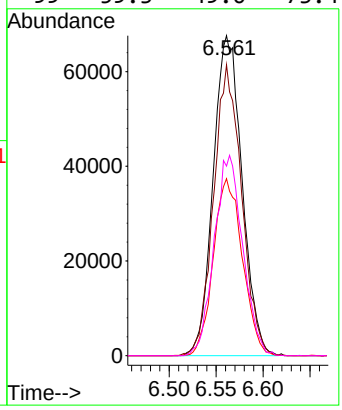




#47
1,1,2-Trichloroethane
Concen: 11.666 ppbv
RT: 6.561 min Scan# 2(
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 97 Resp: 14420(

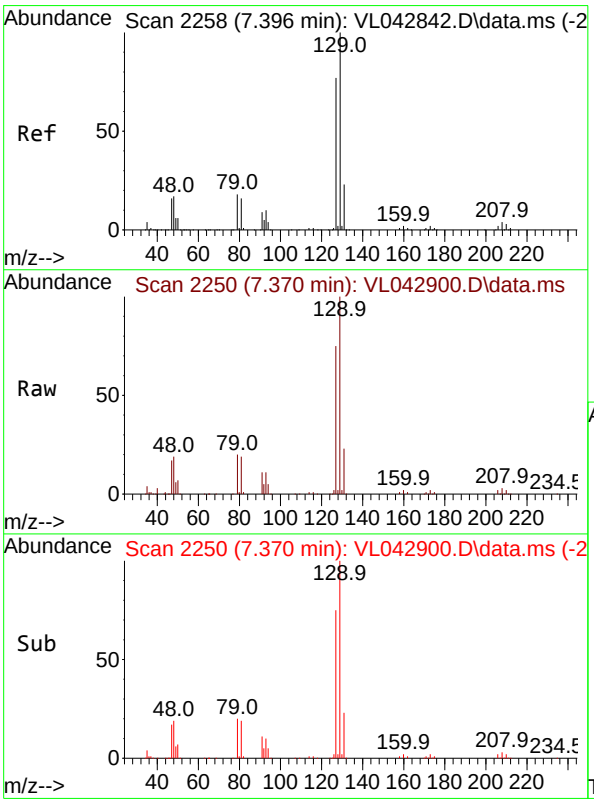
Ion	Ratio	Lower	Upper
97	100		
83	90.9	71.0	106.4
85	55.2	43.6	65.4
99	59.3	49.0	73.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

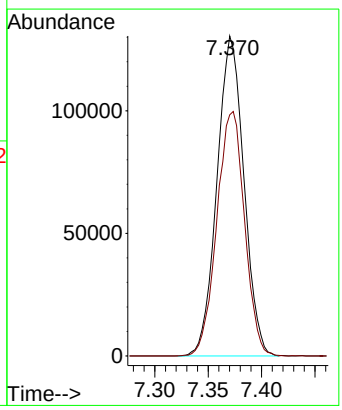
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

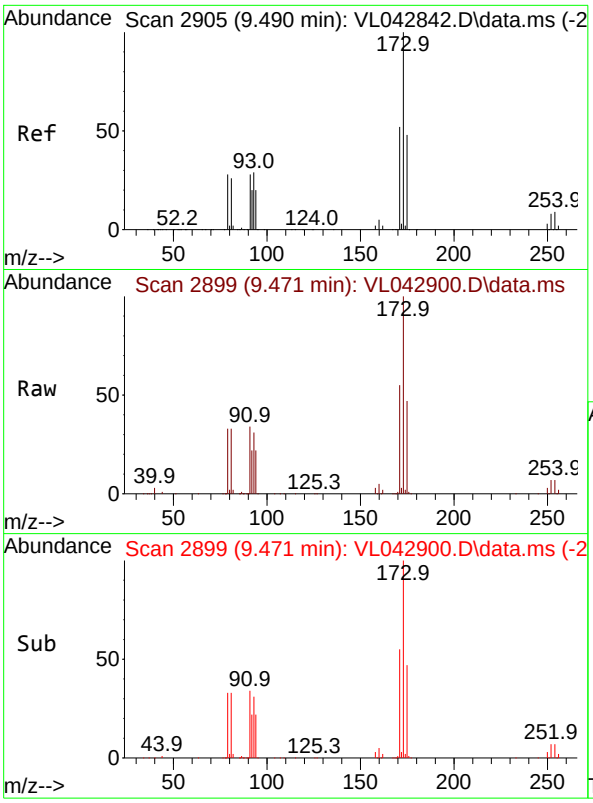


#48
Dibromochloromethane
Concen: 11.430 ppbv
RT: 7.370 min Scan# 2250
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion:129 Resp: 228649

Ion	Ratio	Lower	Upper
129	100		
127	78.7	39.4	118.2

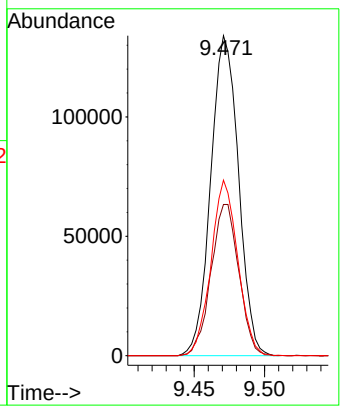




#49
Bromoform
Concen: 11.158 ppbv
RT: 9.471 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion:173 Resp: 18406

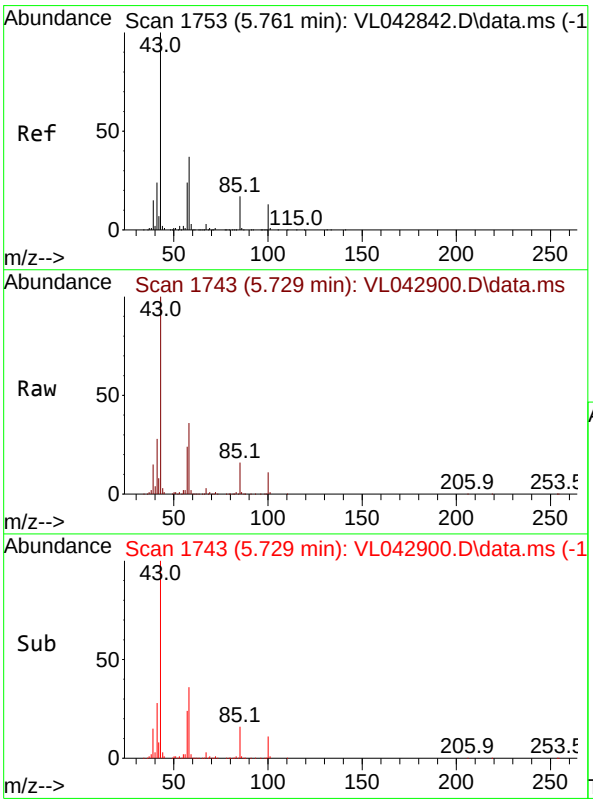
Ion	Ratio	Lower	Upper
173	100		
175	47.4	39.2	58.8
171	52.8	41.3	61.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

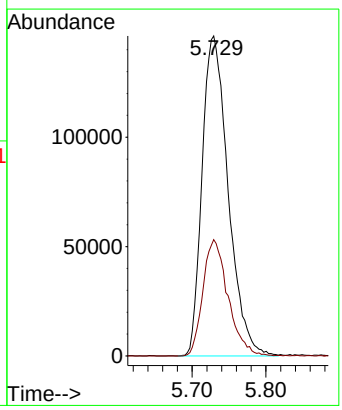
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

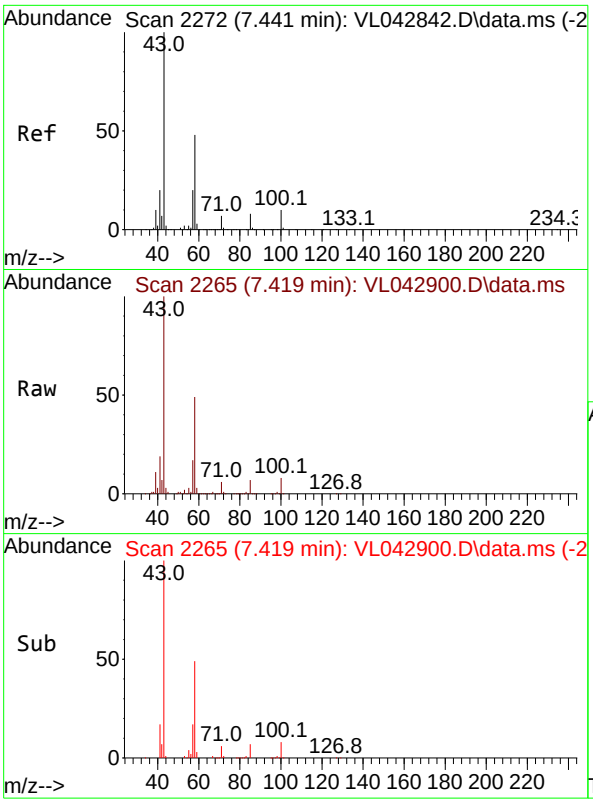


#50
4-Methyl-2-Pentanone
Concen: 11.801 ppbv
RT: 5.729 min Scan# 1743
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 43 Resp: 359329

Ion	Ratio	Lower	Upper
43	100		
58	35.0	29.8	44.8

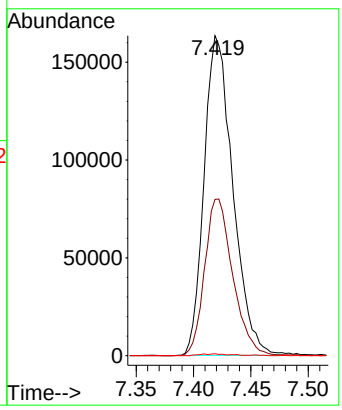




#51
2-Hexanone
Concen: 11.872 ppbv
RT: 7.419 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 43 Resp: 28445

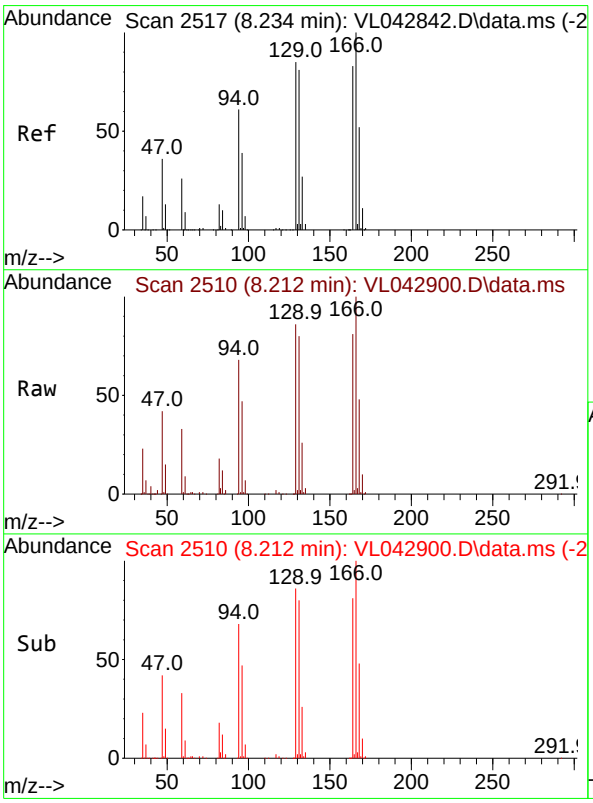
Ion	Ratio	Lower	Upper
43	100		
58	48.1	41.0	61.6
98	0.7	0.1	0.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

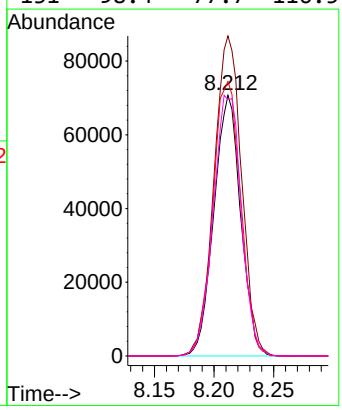
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

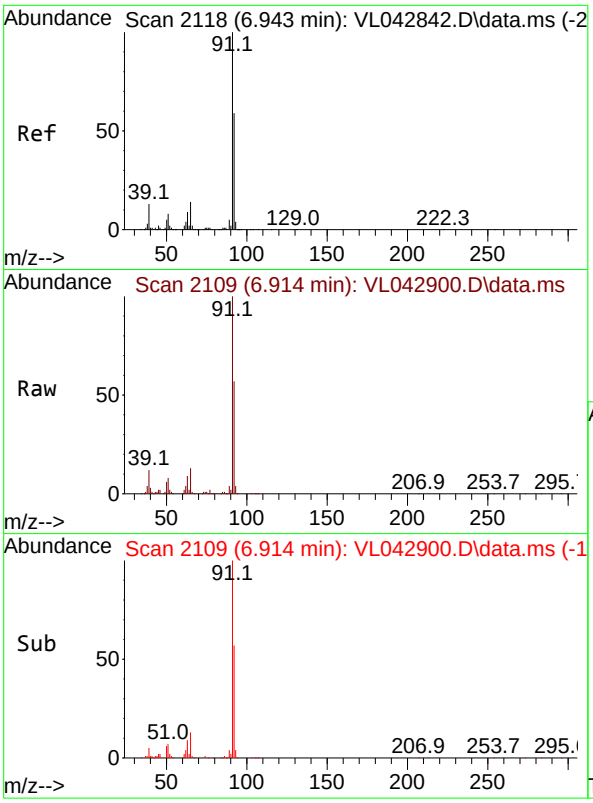


#52
Tetrachloroethene
Concen: 9.547 ppbv
RT: 8.212 min Scan# 2510
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion:164 Resp: 110334

Ion	Ratio	Lower	Upper
164	100		
166	122.8	96.5	144.7
129	105.2	81.8	122.6
131	98.4	77.7	116.5

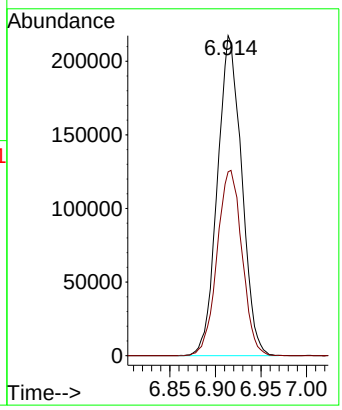




#53
Toluene
Concen: 10.587 ppbv
RT: 6.914 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 91 Resp: 40208

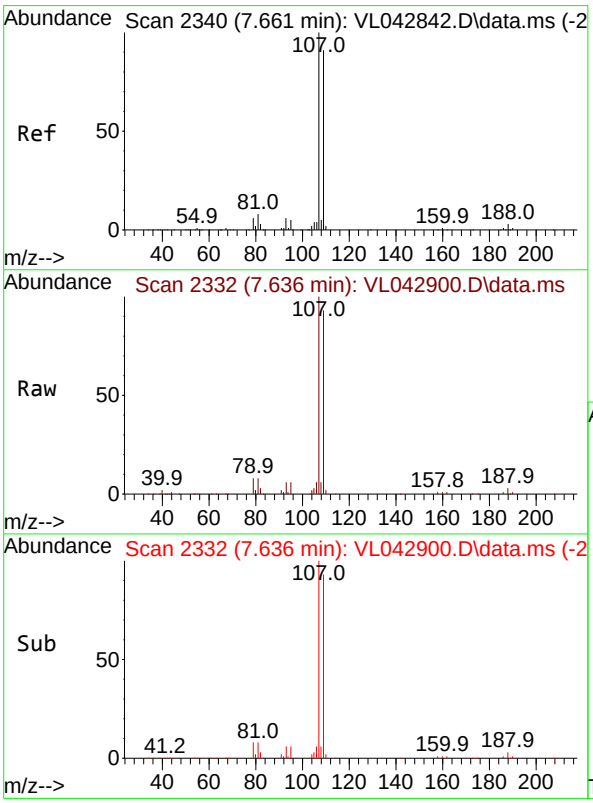
Ion	Ratio	Lower	Upper
91	100		
92	59.7	47.8	71.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
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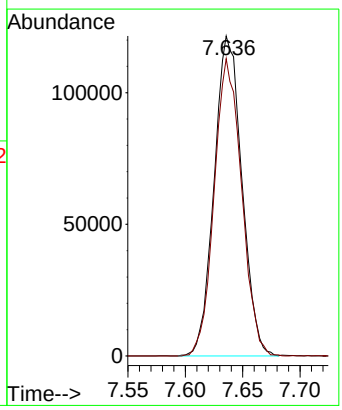
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

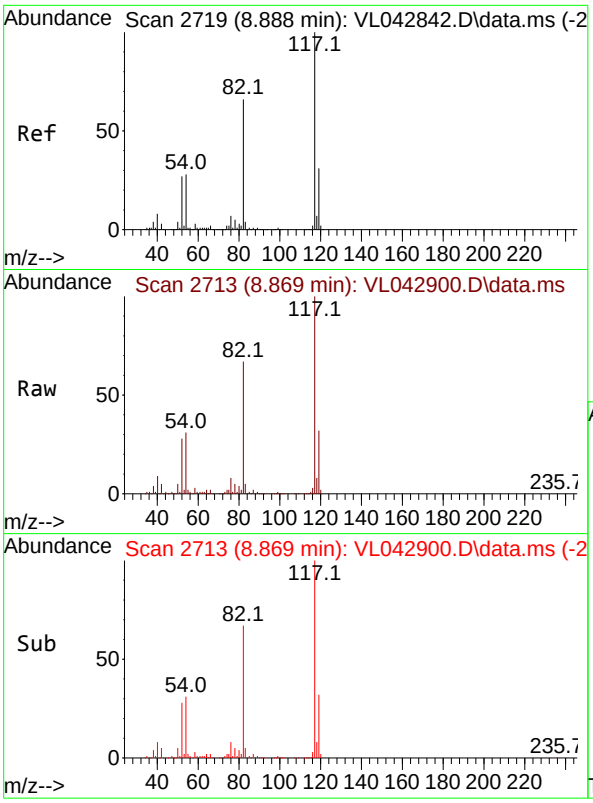


#54
1,2-Dibromoethane
Concen: 11.307 ppbv
RT: 7.636 min Scan# 2332
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion:107 Resp: 204276

Ion	Ratio	Lower	Upper
107	100		
109	92.9	72.5	108.7

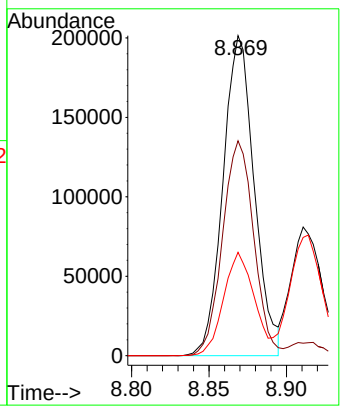




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.869 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion:117 Resp: 28277

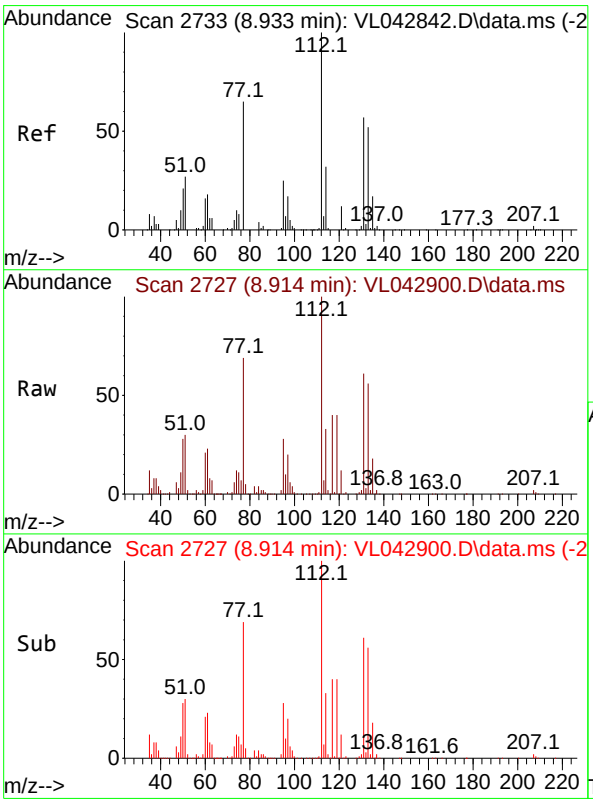
Ion	Ratio	Lower	Upper
117	100		
82	71.7	54.6	81.8
119	33.1	25.9	38.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

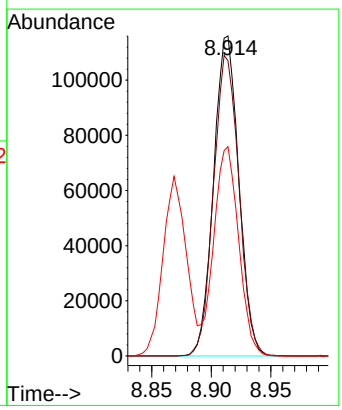
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

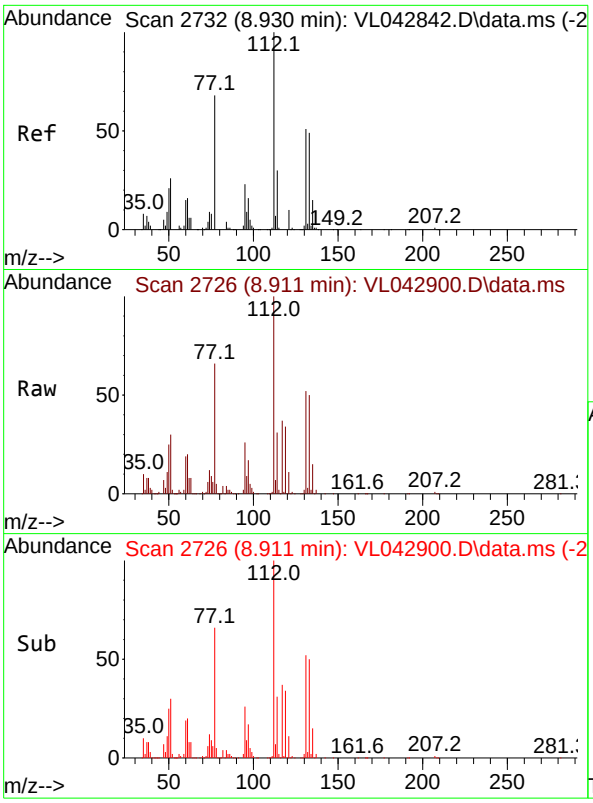


#56
1,1,1,2-Tetrachloroethane
Concen: 11.648 ppbv
RT: 8.914 min Scan# 2727
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion:131 Resp: 170319

Ion	Ratio	Lower	Upper
131	100		
133	95.2	77.4	116.0
119	63.9	51.2	76.8

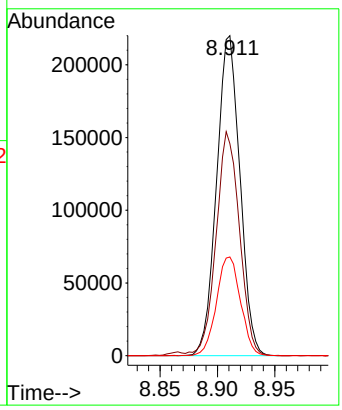




#57
Chlorobenzene
Concen: 11.581 ppbv
RT: 8.911 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion:112 Resp: 31137

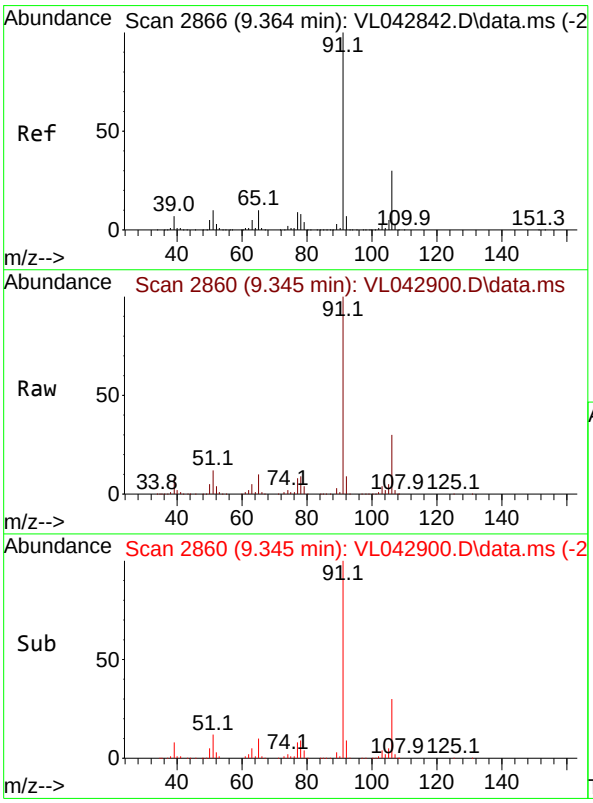
Ion	Ratio	Lower	Upper
112	100		
77	66.1	55.5	83.3
114	30.8	27.2	33.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

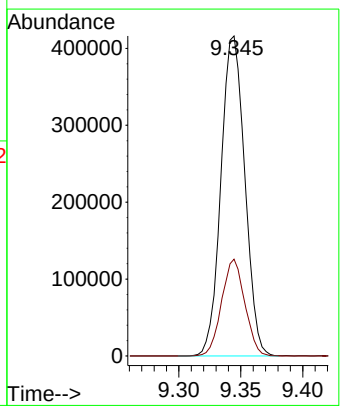
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

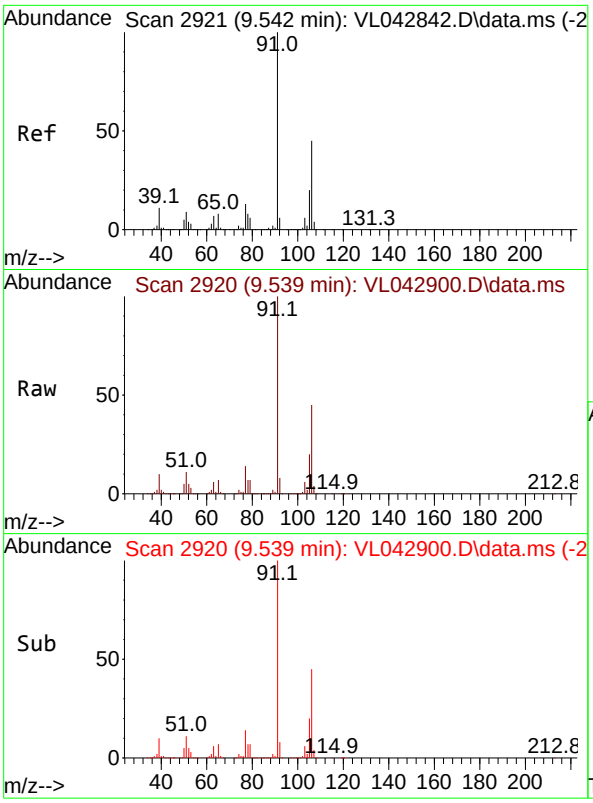


#58
Ethyl Benzene
Concen: 11.184 ppbv
RT: 9.345 min Scan# 2860
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 91 Resp: 558102

Ion	Ratio	Lower	Upper
91	100		
106	30.3	23.9	35.9

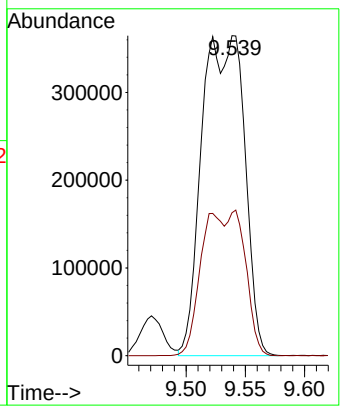




#59
m/p-Xylene
Concen: 23.388 ppbv m
RT: 9.539 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 91 Resp: 91478

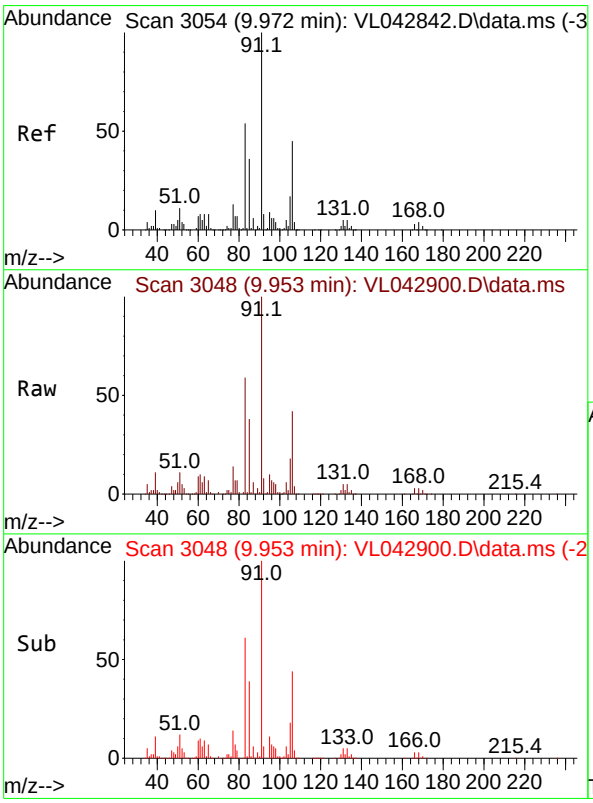
Ion	Ratio	Lower	Upper
91	100		
106	45.8	0.0	0.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

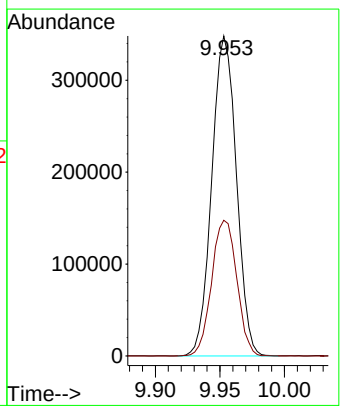
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

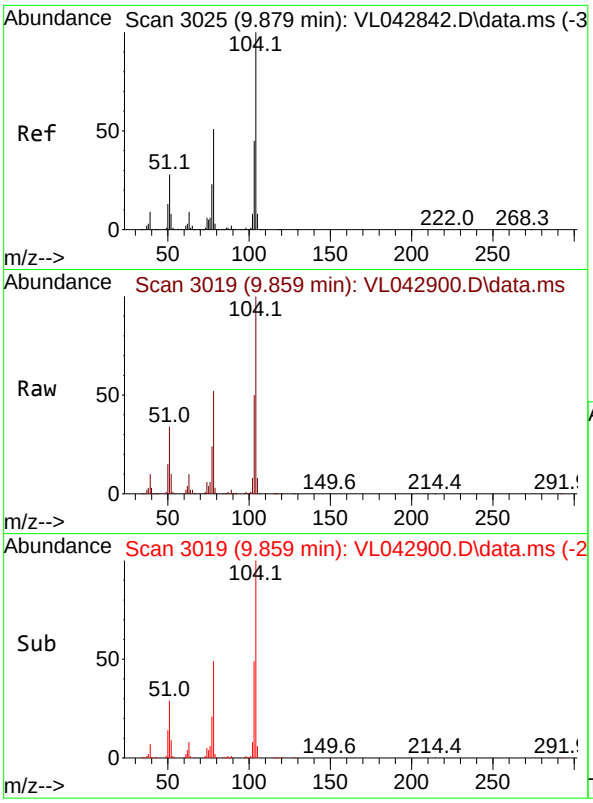


#60
o-Xylene
Concen: 11.716 ppbv
RT: 9.953 min Scan# 3048
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 91 Resp: 460968

Ion	Ratio	Lower	Upper
91	100		
106	43.4	21.8	65.4

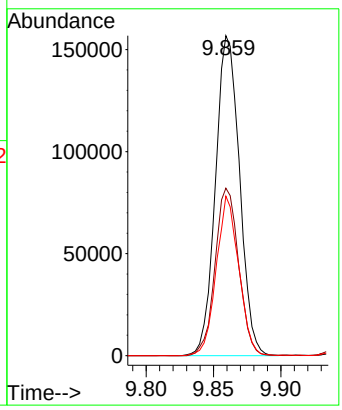




#61
Styrene
Concen: 10.579 ppbv
RT: 9.859 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion:104 Resp: 19500

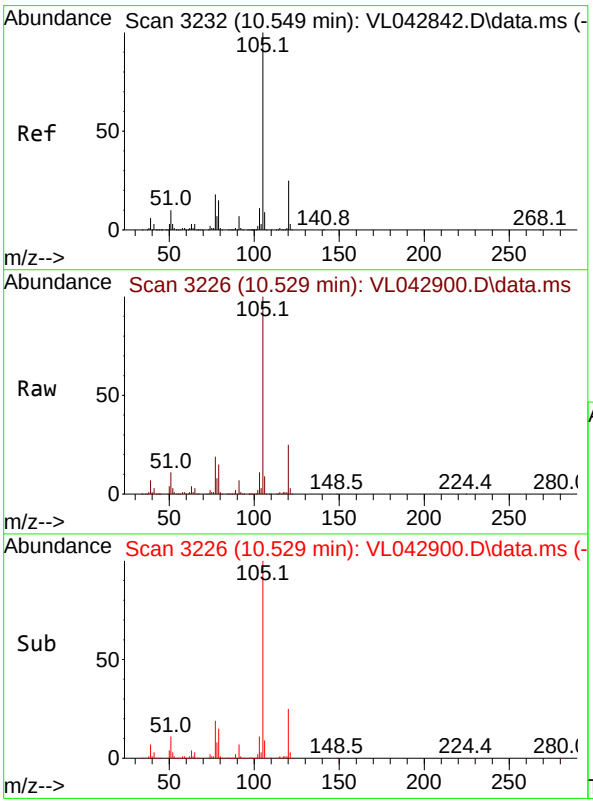
Ion	Ratio	Lower	Upper
104	100		
78	51.3	40.6	61.0
103	46.6	37.7	56.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

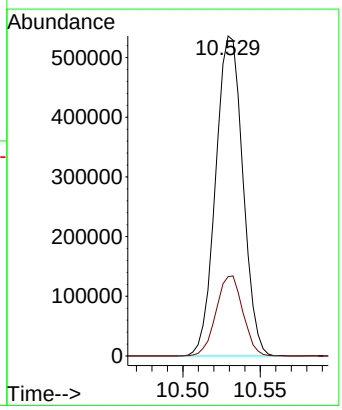
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

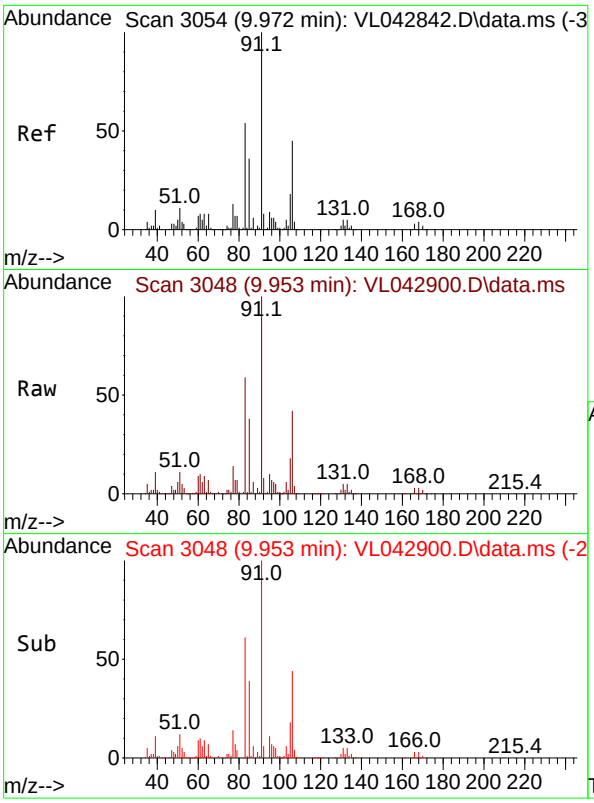


#62
Isopropylbenzene
Concen: 11.394 ppbv
RT: 10.529 min Scan# 3226
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion:105 Resp: 655164

Ion	Ratio	Lower	Upper
105	100		
120	24.5	20.6	30.8





#63
1,1,2,2-Tetrachloroethane
Concen: 12.314 ppbv
RT: 9.953 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

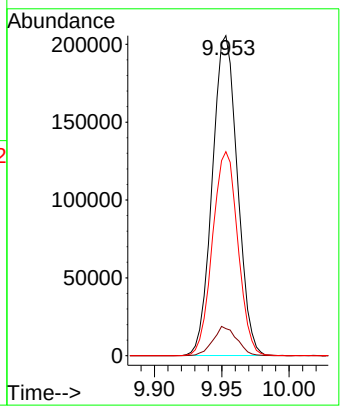
Tgt Ion: 83 Resp: 26643

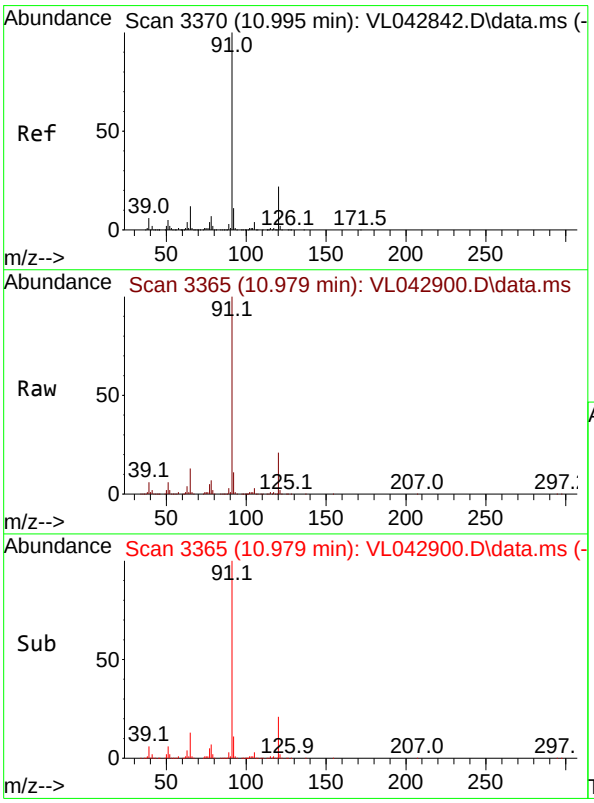
Ion	Ratio	Lower	Upper
83	100		
131	8.7	4.8	14.3
85	64.5	32.3	96.8

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

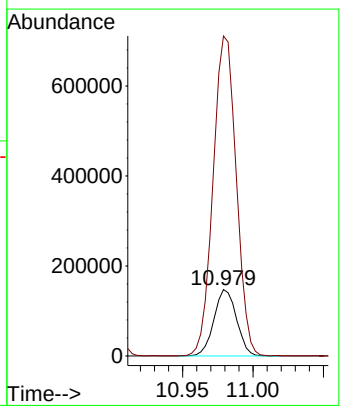


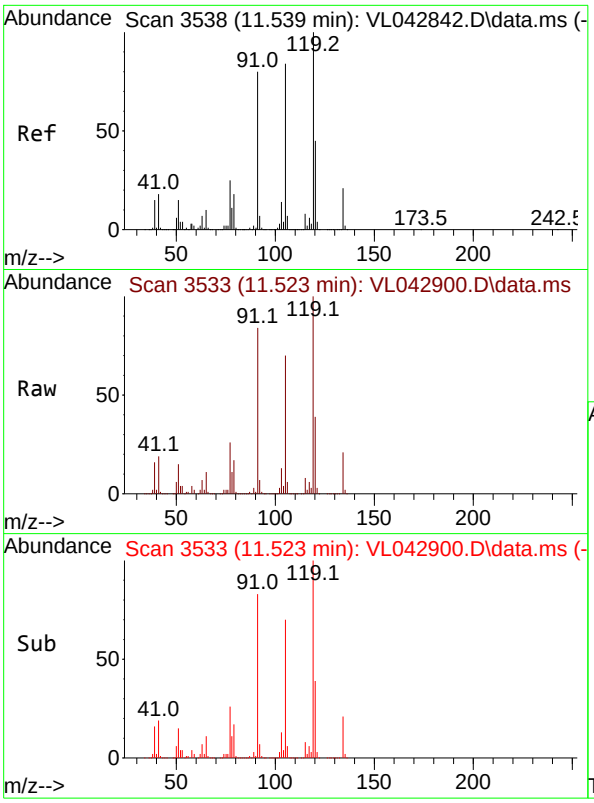


#64
n-propylbenzene
Concen: 11.220 ppbv
RT: 10.979 min Scan# 3365
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion:120 Resp: 164610

Ion	Ratio	Lower	Upper
120	100		
91	495.9	375.8	563.6

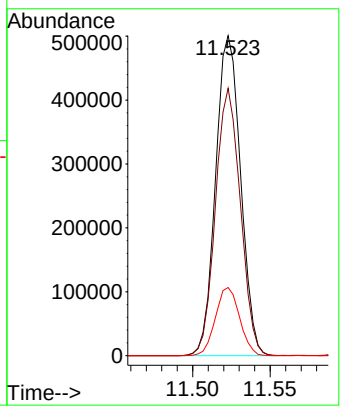




#65
tert-Butylbenzene
Concen: 11.075 ppbv
RT: 11.523 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion:119 Resp: 56140

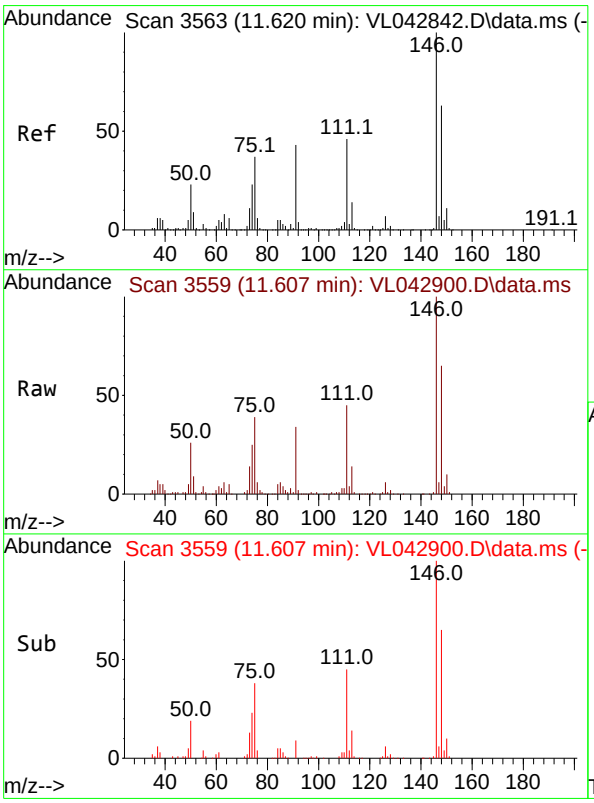
Ion	Ratio	Lower	Upper
119	100		
91	83.4	63.9	95.9
134	20.6	17.0	25.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

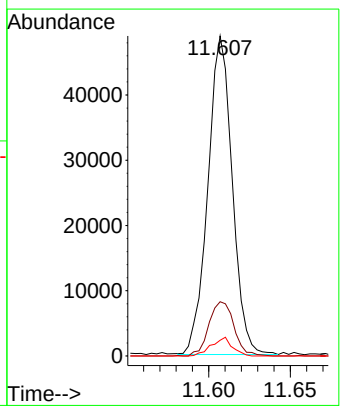
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

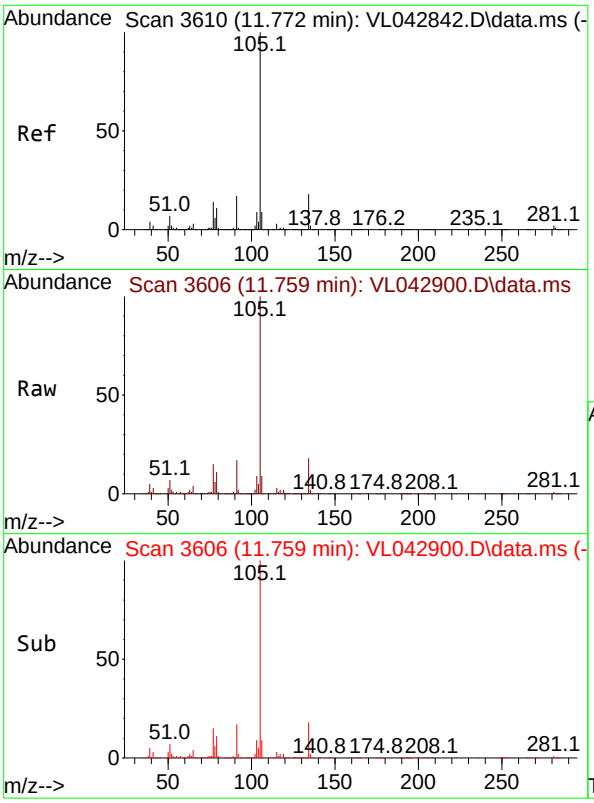


#66
Benzyl Chloride
Concen: 7.895 ppbv
RT: 11.607 min Scan# 3559
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 91 Resp: 50803

Ion	Ratio	Lower	Upper
91	100		
126	17.5	14.2	21.4
128	5.0	5.0	7.6#

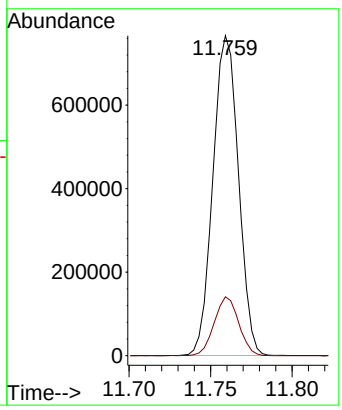




#67
sec-Butylbenzene
Concen: 11.709 ppbv
RT: 11.759 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion:105 Resp: 83311

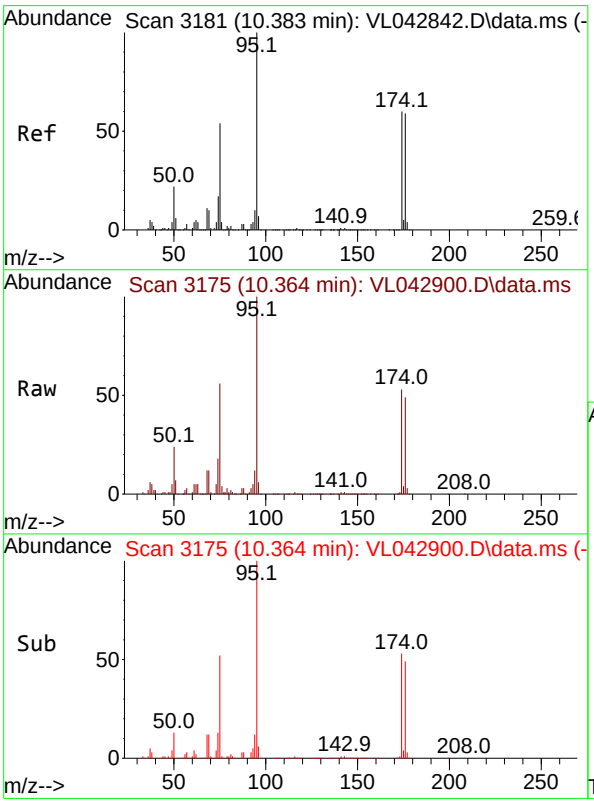
Ion	Ratio	Lower	Upper
105	100		
134	17.7	14.9	22.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

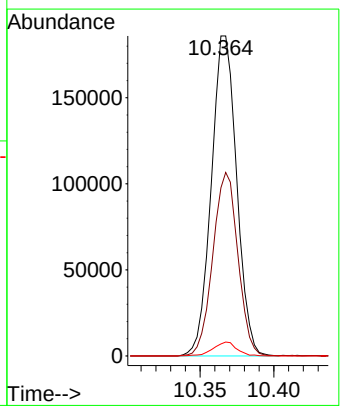
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

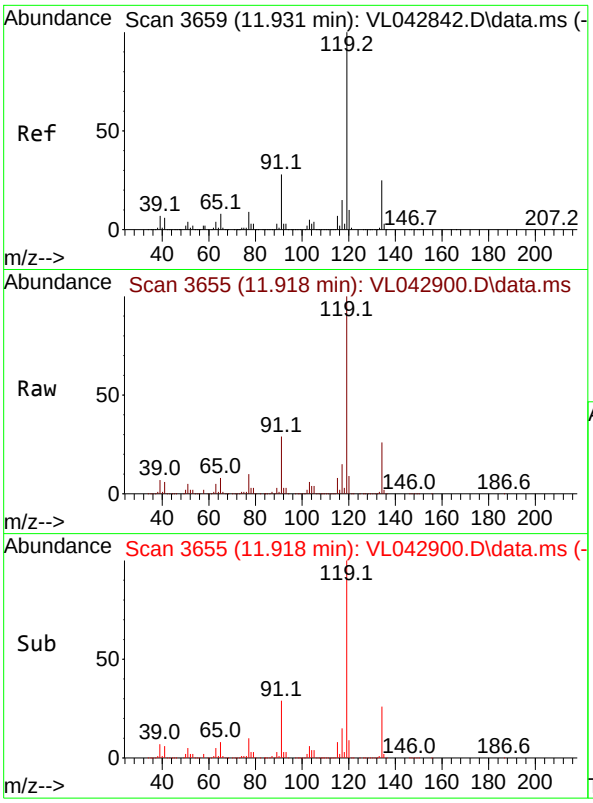


#68
1-Bromo-4-Fluorobenzene
Concen: 10.483 ppbv
RT: 10.364 min Scan# 3175
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 95 Resp: 222314

Ion	Ratio	Lower	Upper
95	100		
174	56.8	48.4	72.6
175	4.1	3.8	5.8

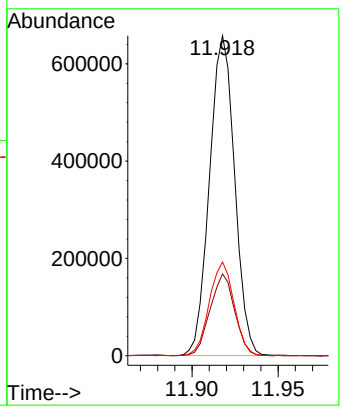




#69
p-Isopropyltoluene
Concen: 10.929 ppbv
RT: 11.918 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion:119 Resp: 66755

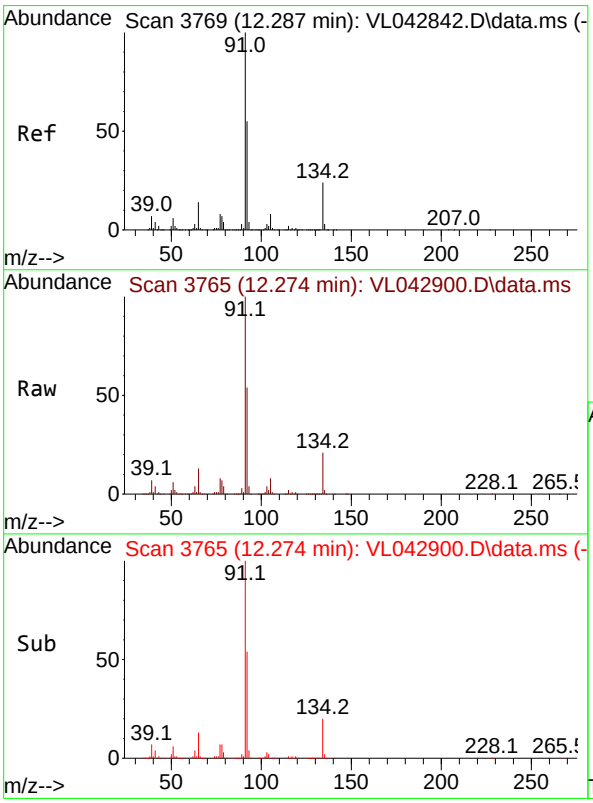
Ion	Ratio	Lower	Upper
119	100		
134	25.1	20.6	30.8
91	29.0	22.6	34.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

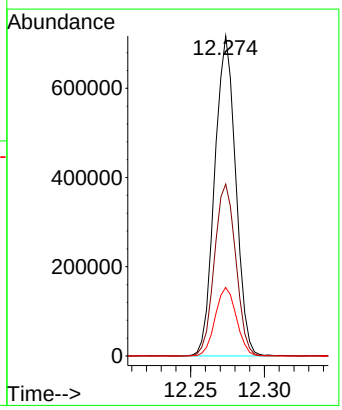
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

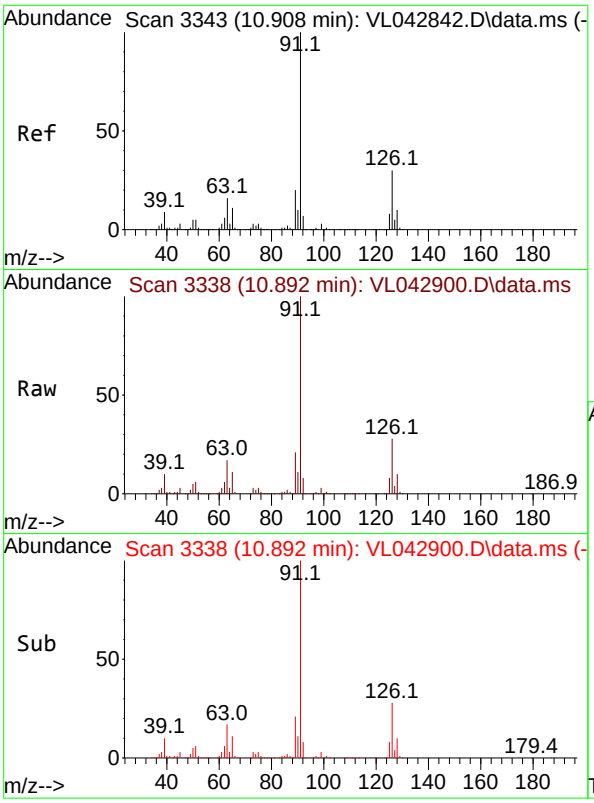


#70
n-Butylbenzene
Concen: 11.736 ppbv
RT: 12.274 min Scan# 3765
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 91 Resp: 711012

Ion	Ratio	Lower	Upper
91	100		
92	54.7	44.6	66.8
134	21.6	19.0	28.4

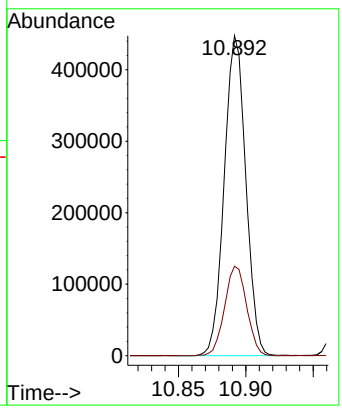




#71
2-Chlorotoluene
Concen: 11.156 ppbv
RT: 10.892 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 91 Resp: 49807

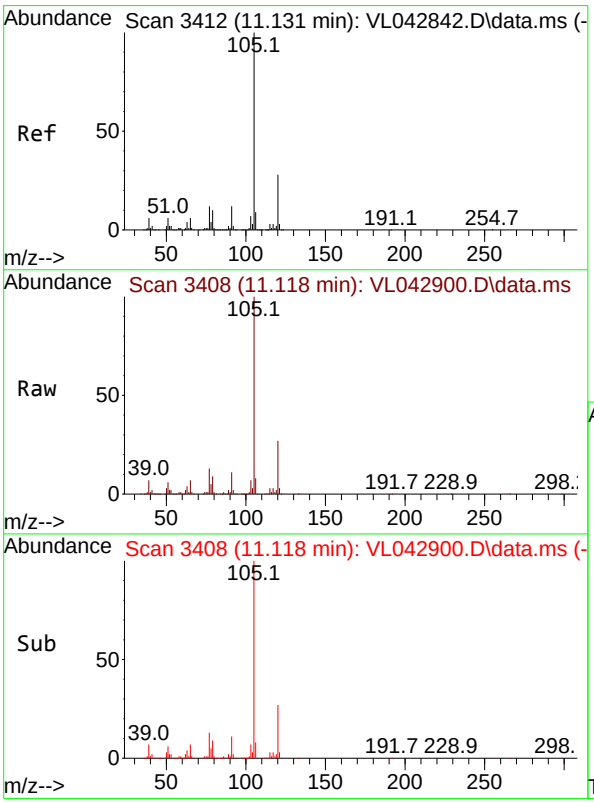
Ion	Ratio	Lower	Upper
91	100		
126	28.5	12.0	47.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

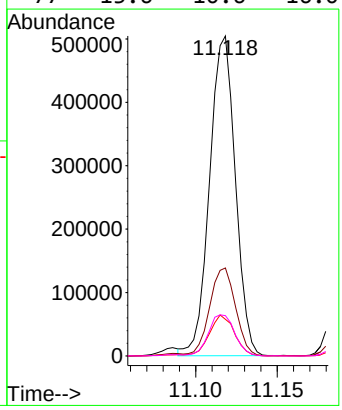
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

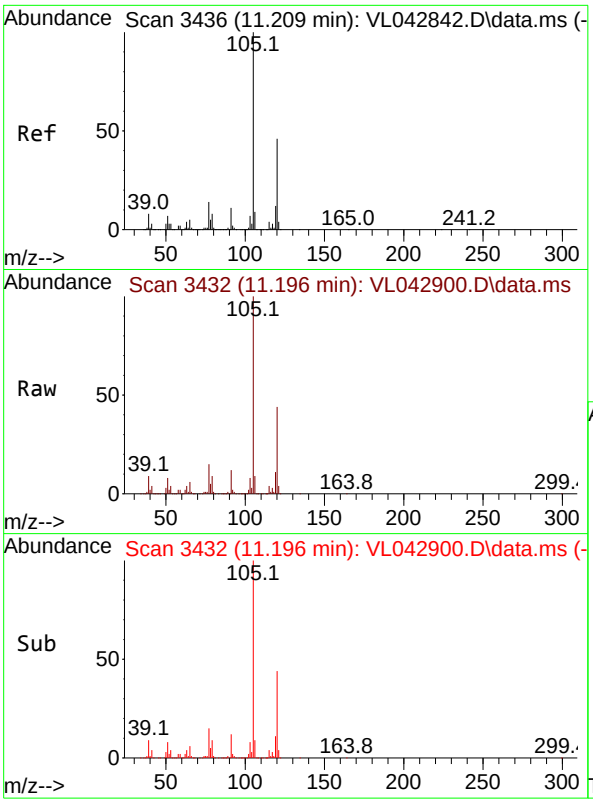


#72
4-Ethyltoluene
Concen: 11.624 ppbv
RT: 11.118 min Scan# 3408
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion:105 Resp: 554411

Ion	Ratio	Lower	Upper
105	100		
120	28.3	23.4	35.2
91	12.9	9.8	14.6
77	13.6	10.6	16.0

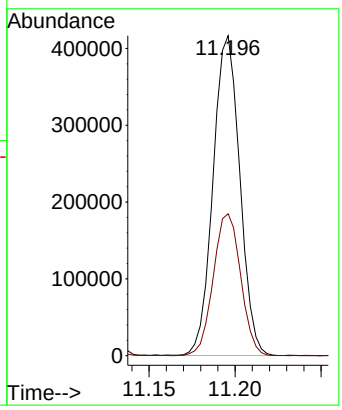




#73
1,3,5-Trimethylbenzene
Concen: 11.105 ppbv
RT: 11.196 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion:105 Resp: 45040

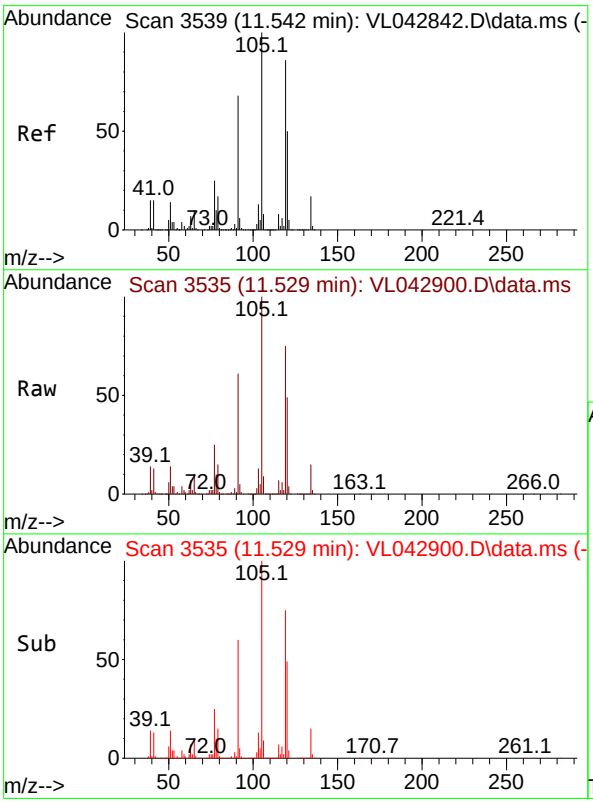
Ion	Ratio	Lower	Upper
105	100		
120	44.3	36.6	54.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

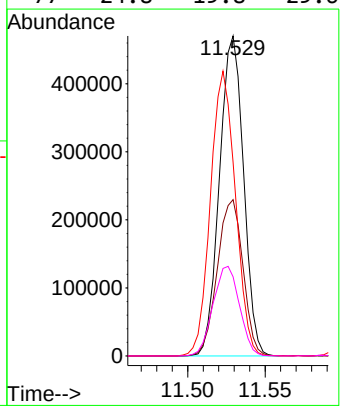
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

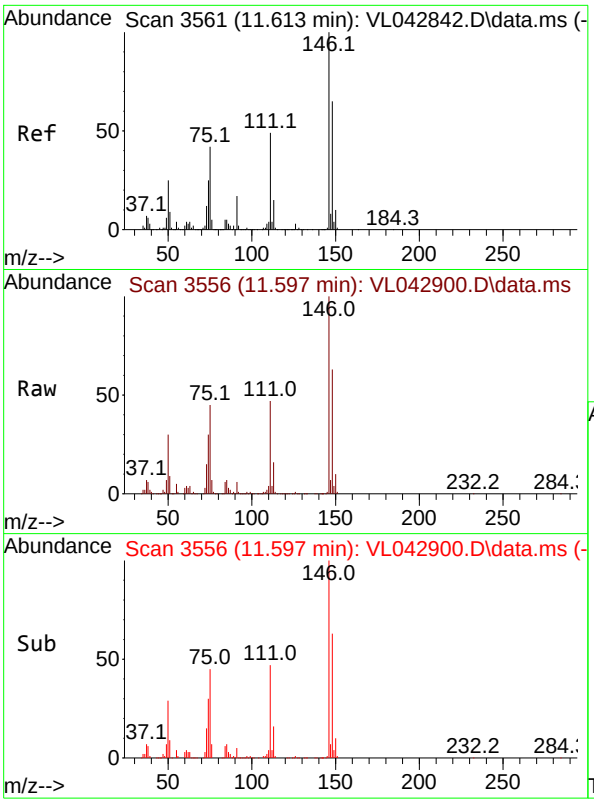


#74
1,2,4-Trimethylbenzene
Concen: 11.424 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion:105 Resp: 508605

Ion	Ratio	Lower	Upper
105	100		
120	48.8	39.8	59.6
91	60.5	54.2	81.4
77	24.8	19.8	29.6

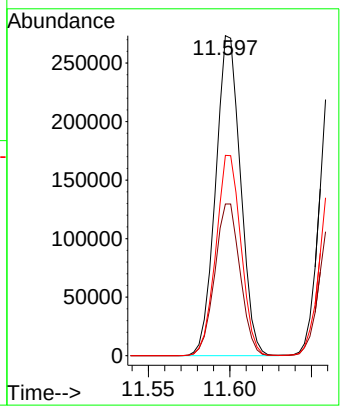




#75
1,3-Dichlorobenzene
Concen: 11.445 ppbv
RT: 11.597 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion:146 Resp: 28965

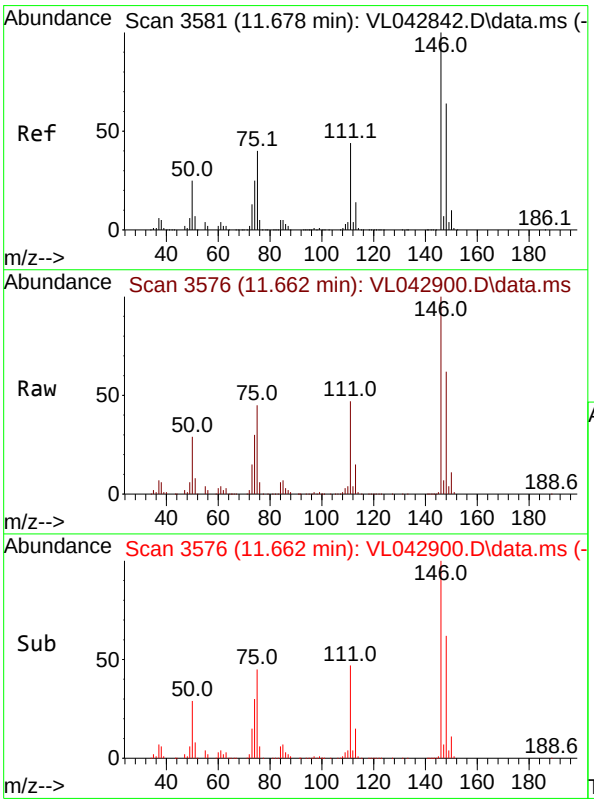
Ion	Ratio	Lower	Upper
146	100		
111	48.4	23.9	71.7
148	63.1	31.4	94.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

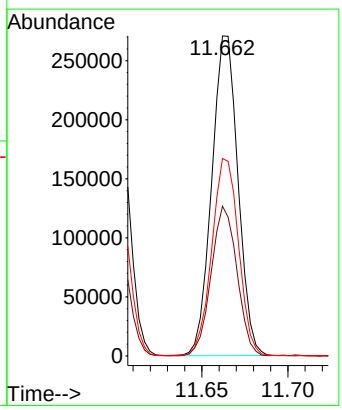
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

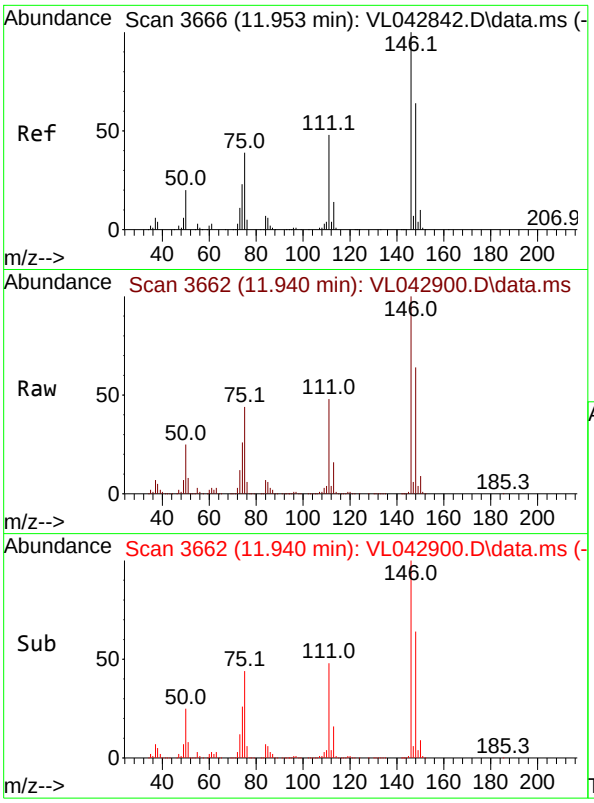


#76
1,4-Dichlorobenzene
Concen: 11.226 ppbv
RT: 11.662 min Scan# 3576
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion:146 Resp: 287352

Ion	Ratio	Lower	Upper
146	100		
111	46.3	22.7	68.1
148	63.2	31.8	95.3

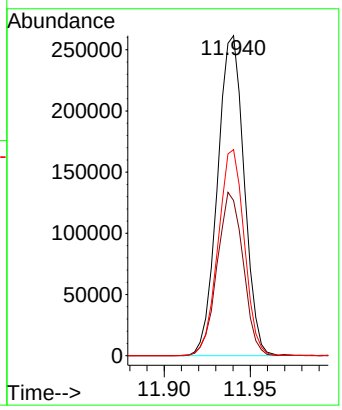




#77
1,2-Dichlorobenzene
Concen: 11.351 ppbv
RT: 11.940 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion:146 Resp: 28130

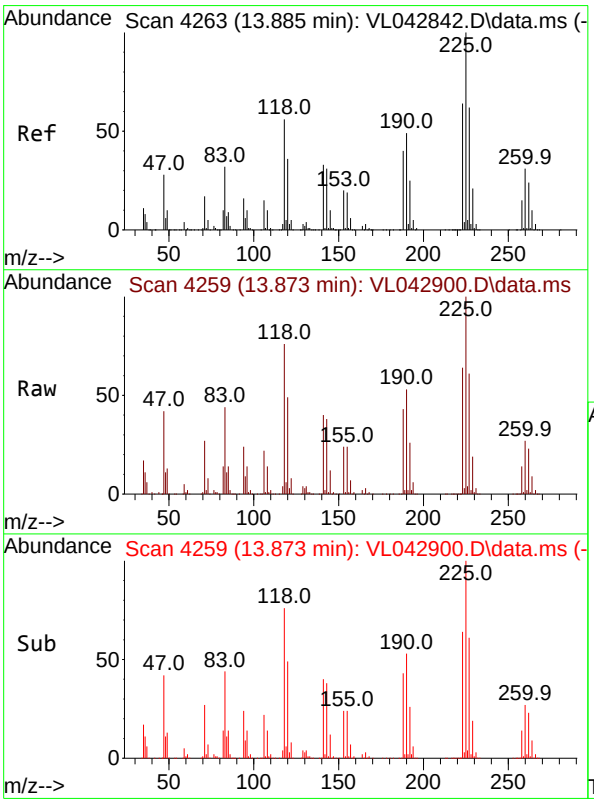
Ion	Ratio	Lower	Upper
146	100		
111	50.0	24.6	74.0
148	63.5	32.0	96.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

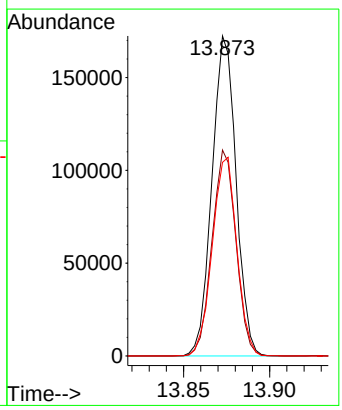
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

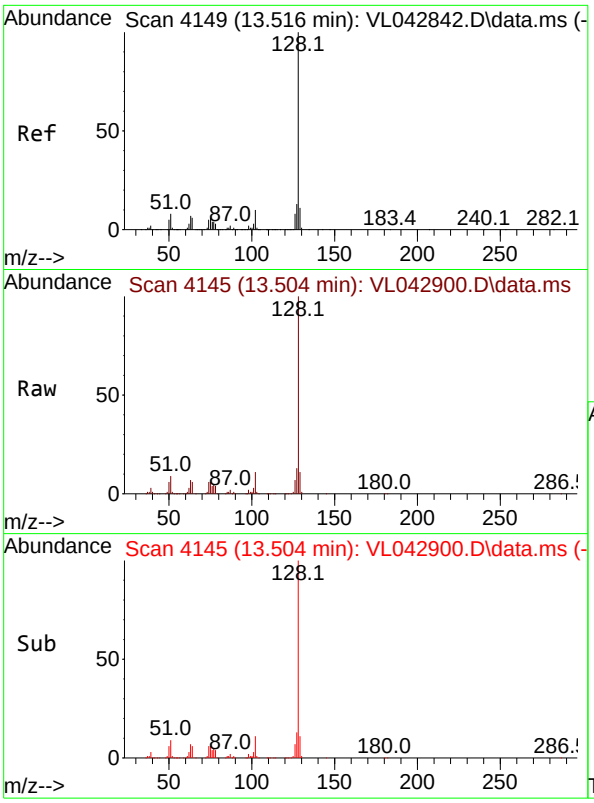


#78
Hexachloro-1,3-Butadiene
Concen: 8.266 ppbv
RT: 13.873 min Scan# 4259
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion:225 Resp: 167893

Ion	Ratio	Lower	Upper
225	100		
223	63.8	51.4	77.2
227	63.3	51.9	77.9

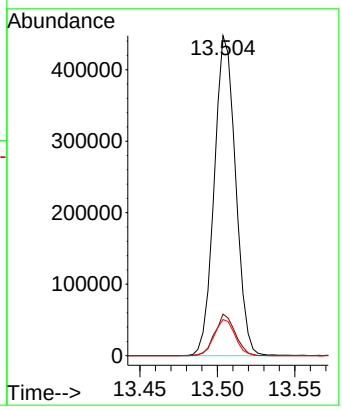




#79
Naphthalene
Concen: 10.613 ppbv
RT: 13.504 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion:128 Resp: 42835

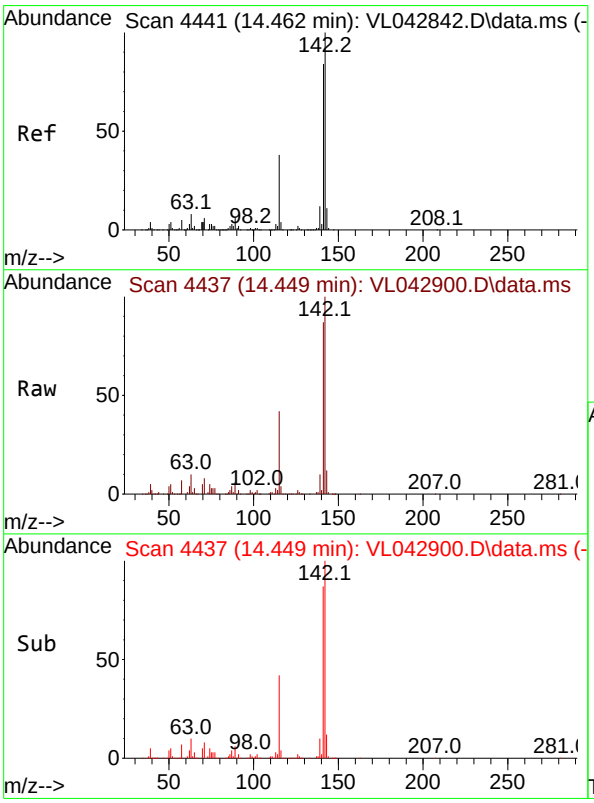
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.6	16.0
129	11.3	8.9	13.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

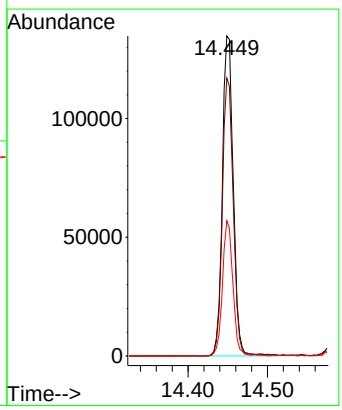
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

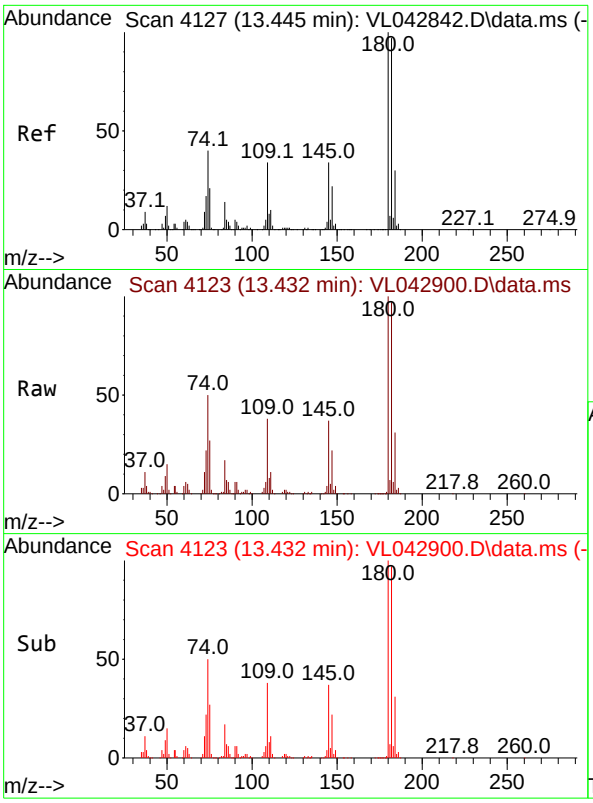


#80
Naphthalene,2-methyl-
Concen: 8.470 ppbv
RT: 14.449 min Scan# 4437
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion:142 Resp: 127751

Ion	Ratio	Lower	Upper
142	100		
141	87.4	67.0	100.6
115	40.4	30.9	46.3

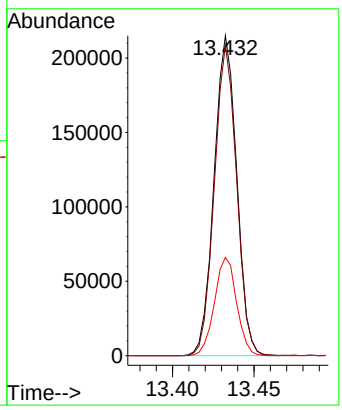




#81
1,2,4-Trichlorobenzene
Concen: 10.226 ppbv
RT: 13.432 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion:180 Resp: 20745

Ion	Ratio	Lower	Upper
180	100		
182	95.4	76.9	115.3
184	30.0	24.5	36.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
Data File : VL042900.D
Acq On : 08 Sep 2025 11:05
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Sep 09 00:52:45 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 : Tue Sep 09 00:52:26 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	95	0.00
2	T	Dichlorodifluoromethane	1.466	1.540	-5.0	109	0.00
3		Chlorodifluoromethane	1.620	1.767	-9.1	111	0.00
4		Chloromethane	0.591	0.591	0.0	105	0.00
5	T	Vinyl Chloride	0.582	0.560	3.8	106	0.00
6	T	Bromomethane	0.233	0.225	3.4	106	0.00
7		Chloroethane	0.227	0.225	0.9	106	0.00
8	T	Dichlorotetrafluoroethane	1.199	1.250	-4.3	106	0.00
9	T	Propene	0.700	0.700	0.0	102	0.00
10	T	Heptane	1.874	1.855	1.0	103	0.00
11	T	Trichlorofluoromethane	1.446	1.487	-2.8	111	0.00
12	T	1,1,2-Trichlorotrifluoroeth	1.152	1.163	-1.0	106	0.00
13		Ethanol	0.064	0.052	18.8	106	0.00
14	T	Bromoethene	0.417	0.424	-1.7	106	0.00
15	T	Acetone	1.323	1.147	13.3	115	0.00
16	T	1,3-Butadiene	0.600	0.558	7.0	106	0.00
17		tert-Butyl alcohol	1.569	1.345	14.3	93	0.00
18	T	1,1-Dichloroethene	0.507	0.502	1.0	102	0.00
19	T	Isopropyl Alcohol	0.790	0.703	11.0	103	0.00
20	T	Methylene Chloride	0.554	0.455	17.9	105	0.00
21	T	Allyl Chloride	0.935	0.903	3.4	101	0.00
22	T	trans-1,2-Dichloroethene	0.586	0.585	0.2	104	0.00
23	T	Vinyl Acetate	1.819	1.802	0.9	103	0.00
24	T	1,1-Dichloroethane	1.171	1.205	-2.9	110	0.00
25	T	Ethyl Acetate	3.202	3.279	-2.4	106	0.00
26	T	Hexane	1.478	1.482	-0.3	101	0.00
27	T	Carbon Disulfide	1.438	1.526	-6.1	110	0.00
28	T	Methyl tert-Butyl Ether	0.754	0.677	10.2	98	0.00
29	T	Chloroform	2.110	2.223	-5.4	110	0.00
30	T	Cyclohexane	1.296	1.208	6.8	95	0.00
31	T	cis-1,2-Dichloroethene	1.476	1.441	2.4	102	0.00
32	T	1,1,1-Trichloroethane	2.230	2.143	3.9	102	0.00
33	I	1,4-Difluorobenzene	1.000	1.000	0.0	81	0.00
34	T	2-Butanone	0.675	0.818	-21.2	108	0.00
35	T	Carbon Tetrachloride	0.689	0.807	-17.1	102	0.00
36	T	Benzene	0.958	1.097	-14.5	97	0.00
37	T	1,2-Dichloroethane	0.500	0.635	-27.0	106	0.00
38	T	Trichloroethene	0.437	0.455	-4.1	92	0.00
39	T	1,2-Dichloropropane	0.350	0.419	-19.7	104	0.00
40	T	1,4-Dioxane	0.166	0.168	-1.2	91	0.00
41	T	Tetrahydrofuran	0.376	0.447	-18.9	101	0.00
42	T	Bromodichloromethane	0.745	0.905	-21.5	103	0.00
43		Methyl Methacrylate	0.394	0.425	-7.9	93	0.00
44	T	2,2,4-Trimethylpentane	1.625	1.892	-16.4	101	0.00
45	T	t-1,3-Dichloropropene	0.445	0.463	-4.0	87	0.00
46	T	cis-1,3-Dichloropropene	0.555	0.602	-8.5	90	0.00
47	T	1,1,2-Trichloroethane	0.371	0.432	-16.4	102	0.00
48	T	Dibromochloromethane	0.600	0.685	-14.2	95	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
Data File : VL042900.D
Acq On : 08 Sep 2025 11:05
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Sep 09 00:52:45 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 : Tue Sep 09 00:52:26 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	0.552	-11.5	91	0.00
50	T	4-Methyl-2-Pentanone	0.913	1.077	-18.0	99	0.00
51	T	2-Hexanone	0.718	0.853	-18.8	98	0.00
52	T	Tetrachloroethene	0.346	0.331	4.3	85	0.00
53	T	Toluene	1.138	1.205	-5.9	91	0.00
54	T	1,2-Dibromoethane	0.542	0.612	-12.9	98	0.00
55	I	Chlorobenzene-d5	1.000	1.000	0.0	76	0.00
56		1,1,1,2-Tetrachloroethane	0.517	0.602	-16.4	97	0.00
57	T	Chlorobenzene	0.951	1.101	-15.8	96	0.00
58	T	Ethyl Benzene	1.765	1.974	-11.8	92	0.00
59	T	m/p-Xylene	1.383	1.618	-17.0	96	0.00
60	T	o-Xylene	1.391	1.630	-17.2	98	0.00
61	T	Styrene	0.652	0.690	-5.8	86	0.00
62		Isopropylbenzene	2.033	2.317	-14.0	96	0.00
63	T	1,1,2,2-Tetrachloroethane	0.765	0.942	-23.1	107	0.00
64		n-propylbenzene	0.519	0.582	-12.1	94	0.00
65		tert-Butylbenzene	1.793	1.985	-10.7	94	0.00
66	T	Benzyl Chloride	0.228	0.180	21.1	60	0.00
67		sec-Butylbenzene	2.516	2.946	-17.1	100	0.00
68	S	1-Bromo-4-Fluorobenzene	0.750	0.786	-4.8	80	0.00
69		p-Isopropyltoluene	2.160	2.361	-9.3	95	0.00
70		n-Butylbenzene	2.142	2.514	-17.4	100	0.00
71		2-Chlorotoluene	1.579	1.761	-11.5	95	0.00
72	T	4-Ethyltoluene	1.687	1.961	-16.2	96	0.00
73	T	1,3,5-Trimethylbenzene	1.434	1.593	-11.1	94	0.00
74	T	1,2,4-Trimethylbenzene	1.574	1.799	-14.3	99	0.00
75	T	1,3-Dichlorobenzene	0.895	1.024	-14.4	94	0.00
76	T	1,4-Dichlorobenzene	0.905	1.016	-12.3	93	0.00
77	T	1,2-Dichlorobenzene	0.876	0.995	-13.6	97	0.00
78	T	Hexachloro-1,3-Butadiene	0.718	0.594	17.3	79	0.00
79	T	Naphthalene	1.427	1.515	-6.2	88	0.00
80	T	Naphthalene,2-methyl-	0.533	0.452	15.2	72	0.00
81	T	1,2,4-Trichlorobenzene	0.717	0.734	-2.4	85	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
Data File : VL042900.D
Acq On : 08 Sep 2025 11:05
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Sep 09 00:52:45 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 : Tue Sep 09 00:52:26 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	95	0.00
2	T	Dichlorodifluoromethane	10.000	10.511	-5.1	109	0.00
3		Chlorodifluoromethane	10.000	10.910	-9.1	111	0.00
4		Chloromethane	10.000	9.988	0.1	105	0.00
5	T	Vinyl Chloride	10.000	9.609	3.9	106	0.00
6	T	Bromomethane	10.000	9.659	3.4	106	0.00
7		Chloroethane	10.000	9.889	1.1	106	0.00
8	T	Dichlorotetrafluoroethane	10.000	10.420	-4.2	106	0.00
9	T	Propene	10.000	10.009	-0.1	102	0.00
10	T	Heptane	10.000	9.898	1.0	103	0.00
11	T	Trichlorofluoromethane	10.000	10.280	-2.8	111	0.00
12	T	1,1,2-Trichlorotrifluoroeth	10.000	10.089	-0.9	106	0.00
13		Ethanol	10.000	8.052	19.5	106	0.00
14	T	Bromoethene	10.000	10.171	-1.7	106	0.00
15	T	Acetone	10.000	8.670	13.3	115	0.00
16	T	1,3-Butadiene	10.000	9.308	6.9	106	0.00
17		tert-Butyl alcohol	10.000	8.574	14.3	93	0.00
18	T	1,1-Dichloroethene	10.000	9.900	1.0	102	0.00
19	T	Isopropyl Alcohol	10.000	8.893	11.1	103	0.00
20	T	Methylene Chloride	10.000	8.219	17.8	105	0.00
21	T	Allyl Chloride	10.000	9.658	3.4	101	0.00
22	T	trans-1,2-Dichloroethene	10.000	9.971	0.3	104	0.00
23	T	Vinyl Acetate	10.000	9.907	0.9	103	0.00
24	T	1,1-Dichloroethane	10.000	10.291	-2.9	110	0.00
25	T	Ethyl Acetate	10.000	10.242	-2.4	106	0.00
26	T	Hexane	10.000	10.031	-0.3	101	0.00
27	T	Carbon Disulfide	10.000	10.608	-6.1	110	0.00
28	T	Methyl tert-Butyl Ether	10.000	8.986	10.1	98	0.00
29	T	Chloroform	10.000	10.538	-5.4	110	0.00
30	T	Cyclohexane	10.000	9.326	6.7	95	0.00
31	T	cis-1,2-Dichloroethene	10.000	9.765	2.3	102	0.00
32	T	1,1,1-Trichloroethane	10.000	9.609	3.9	102	0.00
33	I	1,4-Difluorobenzene	10.000	10.000	0.0	81	0.00
34	T	2-Butanone	10.000	12.107	-21.1	108	0.00
35	T	Carbon Tetrachloride	10.000	11.700	-17.0	102	0.00
36	T	Benzene	10.000	11.458	-14.6	97	0.00
37	T	1,2-Dichloroethane	10.000	12.686	-26.9	106	0.00
38	T	Trichloroethene	10.000	10.413	-4.1	92	0.00
39	T	1,2-Dichloropropane	10.000	11.970	-19.7	104	0.00
40	T	1,4-Dioxane	10.000	10.096	-1.0	91	0.00
41	T	Tetrahydrofuran	10.000	11.863	-18.6	101	0.00
42	T	Bromodichloromethane	10.000	12.136	-21.4	103	0.00
43		Methyl Methacrylate	10.000	10.776	-7.8	93	0.00
44	T	2,2,4-Trimethylpentane	10.000	11.642	-16.4	101	0.00
45	T	t-1,3-Dichloropropene	10.000	10.411	-4.1	87	0.00
46	T	cis-1,3-Dichloropropene	10.000	10.851	-8.5	90	0.00
47	T	1,1,2-Trichloroethane	10.000	11.666	-16.7	102	0.00
48	T	Dibromochloromethane	10.000	11.430	-14.3	95	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
Data File : VL042900.D
Acq On : 08 Sep 2025 11:05
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Sep 09 00:52:45 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 : Tue Sep 09 00:52:26 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	11.158	-11.6	91	0.00
50	T	4-Methyl-2-Pentanone	10.000	11.801	-18.0	99	0.00
51	T	2-Hexanone	10.000	11.872	-18.7	98	0.00
52	T	Tetrachloroethene	10.000	9.547	4.5	85	0.00
53	T	Toluene	10.000	10.587	-5.9	91	0.00
54	T	1,2-Dibromoethane	10.000	11.307	-13.1	98	0.00
55	I	Chlorobenzene-d5	10.000	10.000	0.0	76	0.00
56		1,1,1,2-Tetrachloroethane	10.000	11.648	-16.5	97	0.00
57	T	Chlorobenzene	10.000	11.581	-15.8	96	0.00
58	T	Ethyl Benzene	10.000	11.184	-11.8	92	0.00
59	T	m/p-Xylene	20.000	23.388	-16.9	96	0.00
60	T	o-Xylene	10.000	11.716	-17.2	98	0.00
61	T	Styrene	10.000	10.579	-5.8	86	0.00
62		Isopropylbenzene	10.000	11.394	-13.9	96	0.00
63	T	1,1,2,2-Tetrachloroethane	10.000	12.314	-23.1	107	0.00
64		n-propylbenzene	10.000	11.220	-12.2	94	0.00
65		tert-Butylbenzene	10.000	11.075	-10.7	94	0.00
66	T	Benzyl Chloride	10.000	7.895	21.1	60	0.00
67		sec-Butylbenzene	10.000	11.709	-17.1	100	0.00
68	S	1-Bromo-4-Fluorobenzene	10.000	10.483	-4.8	80	0.00
69		p-Isopropyltoluene	10.000	10.929	-9.3	95	0.00
70		n-Butylbenzene	10.000	11.736	-17.4	100	0.00
71		2-Chlorotoluene	10.000	11.156	-11.6	95	0.00
72	T	4-Ethyltoluene	10.000	11.624	-16.2	96	0.00
73	T	1,3,5-Trimethylbenzene	10.000	11.105	-11.1	94	0.00
74	T	1,2,4-Trimethylbenzene	10.000	11.424	-14.2	99	0.00
75	T	1,3-Dichlorobenzene	10.000	11.445	-14.5	94	0.00
76	T	1,4-Dichlorobenzene	10.000	11.226	-12.3	93	0.00
77	T	1,2-Dichlorobenzene	10.000	11.351	-13.5	97	0.00
78	T	Hexachloro-1,3-Butadiene	10.000	8.266	17.3	79	0.00
79	T	Naphthalene	10.000	10.613	-6.1	88	0.00
80	T	Naphthalene,2-methyl-	10.000	8.470	15.3	72	0.00
81	T	1,2,4-Trichlorobenzene	10.000	10.226	-2.3	85	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

QC SAMPLE DATA

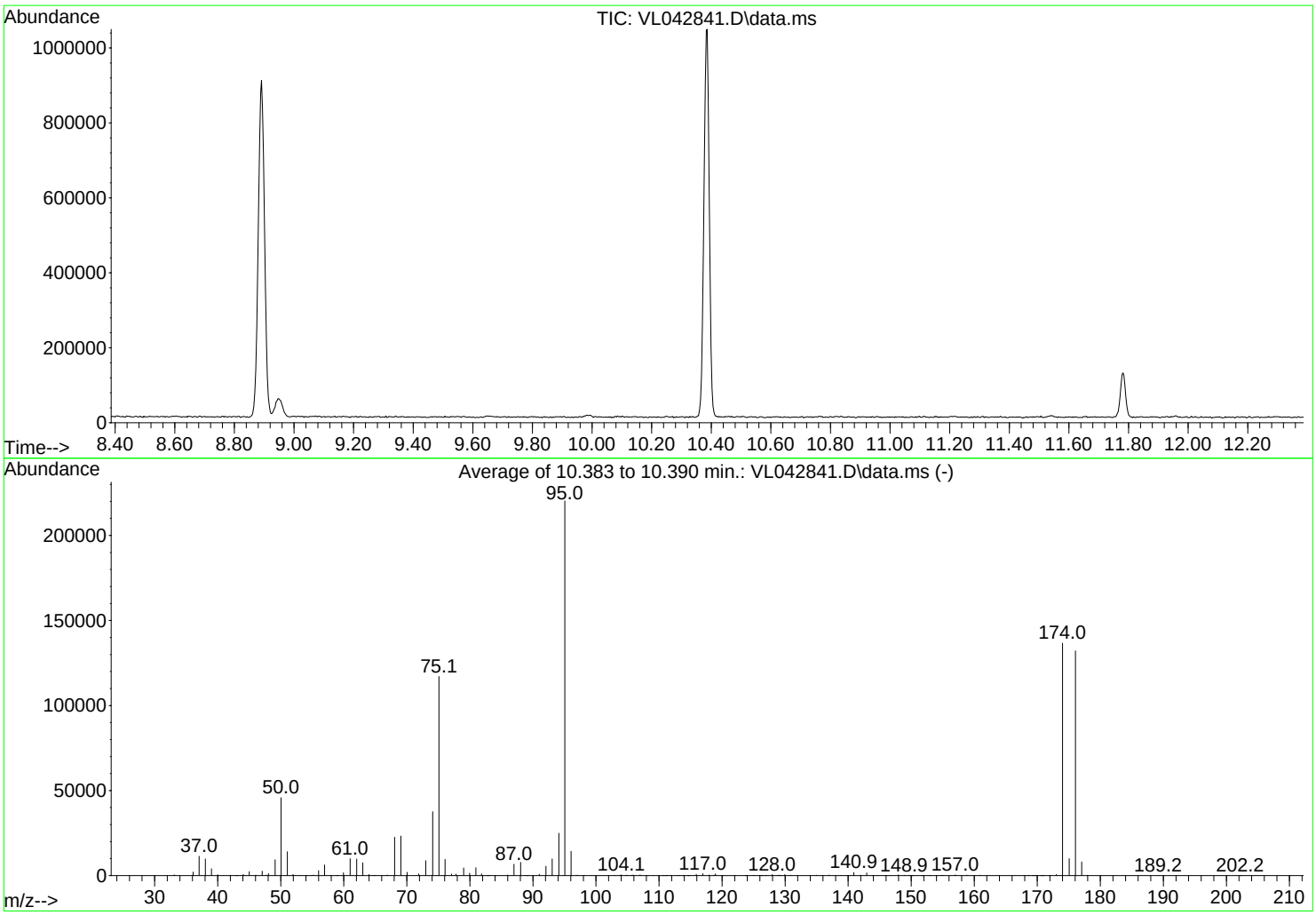
BFB

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_LFri 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

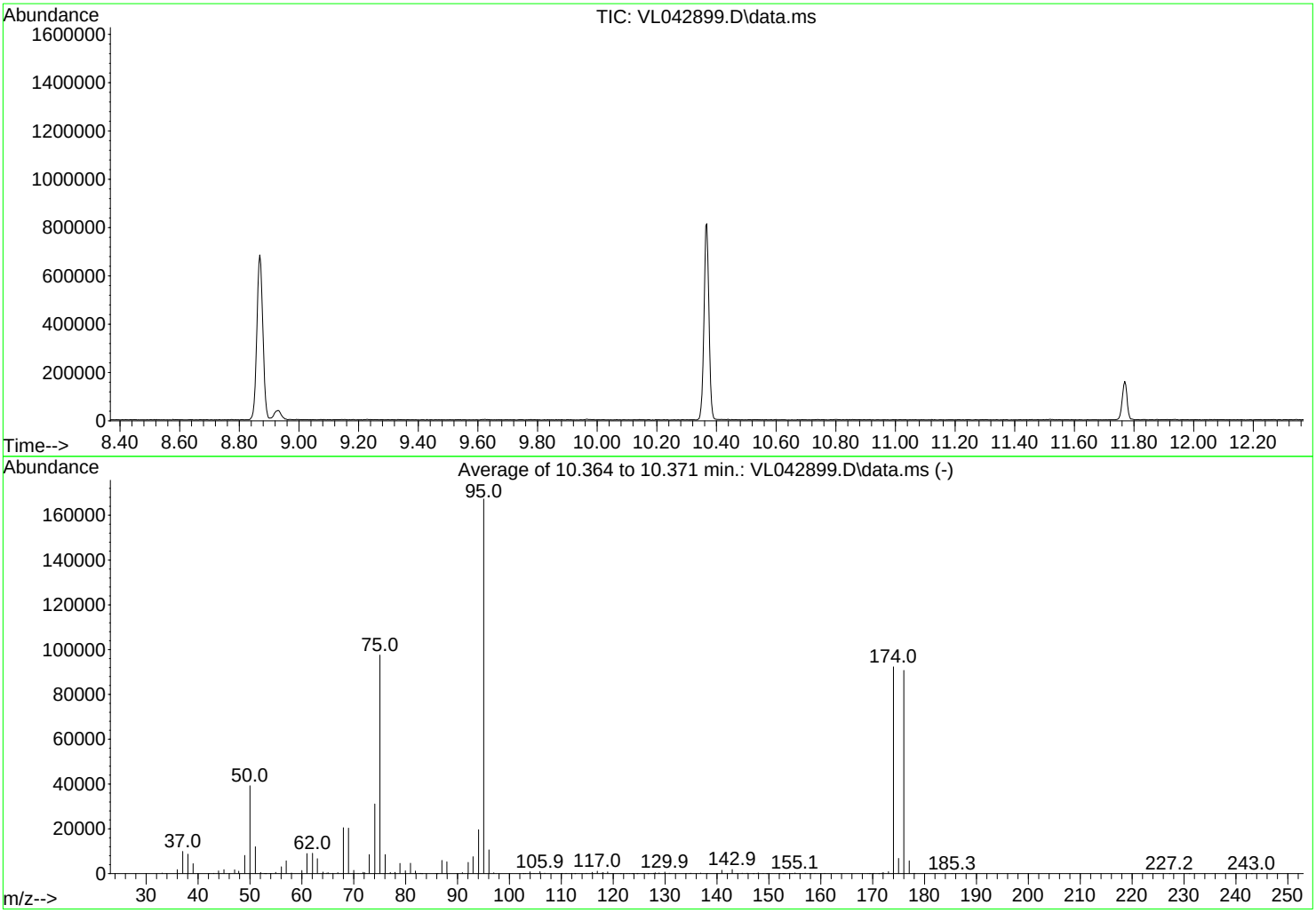
BFB

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
Data File : VL042899.D
Acq On : 08 Sep 2025 08:41
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_LFri Aug 26 06:05:16 2022
Last Update : Tue Sep 09 00:52:26 2025



AutoFind: Scans 3175, 3176, 3177; Background Corrected with Scan 3159

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	23.4	39187	PASS
75	95	30	66	58.3	97600	PASS
95	95	100	100	100.0	167275	PASS
96	95	5	9	6.4	10626	PASS
173	174	0.00	2	1.0	912	PASS
174	95	50	120	55.2	92299	PASS
175	174	4	9	7.3	6771	PASS
176	174	93	101	98.3	90712	PASS
177	176	5	9	6.3	5742	PASS

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

Report of Analysis

Client:	Apex Companies, LLC.	Date Collected:	
Project:	Emerson Vapor Intrusion REG006-0309010-25011690	Date Received:	
Client Sample ID:	VL0908ABL01	SDG No.:	Q3037
Lab Sample ID:	VL0908ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042901.D	1		09/08/25 11:55	VL090825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL ug/m3	LOQ / CRQL ug/m3	
TARGETS							
75-01-4	Vinyl Chloride	0.030	0.080	U	0.080	0.080	
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.2			70 (65) - 130 (135)	102%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	141000		2.784			
540-36-3	1,4-Difluorobenzene	355000		3.952			
3114-55-4	Chlorobenzene-d5	299000		8.875			

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

Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
Data File : VL042901.D
Acq On : 08 Sep 2025 11:55
Operator : SY/MD
Sample : VL0908ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABL01

Quant Time: Sep 09 00:55:32 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 : Tue Sep 09 00:52:26 2025
Response via : Initial Calibration

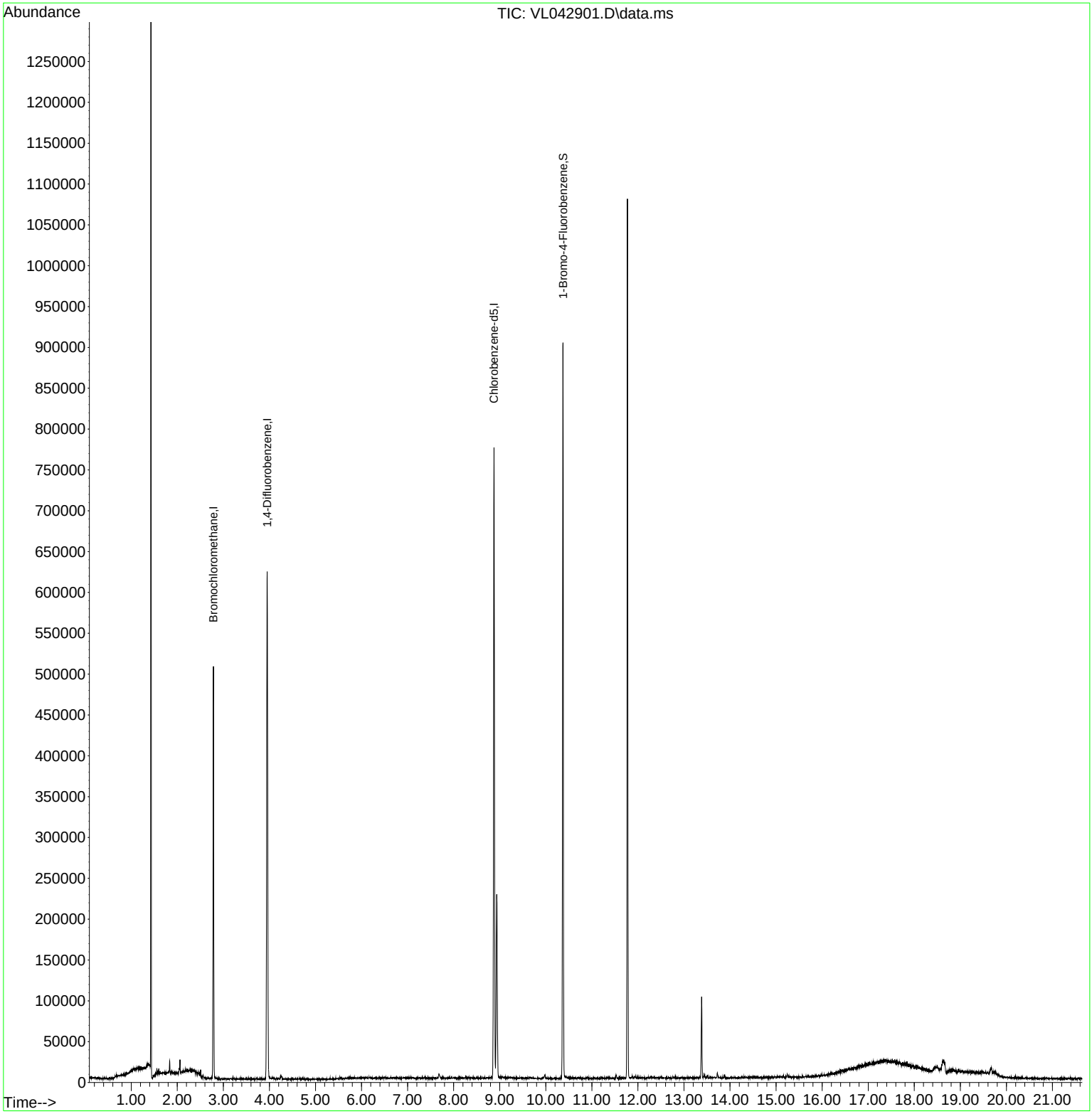
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	141293	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	355217	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	298537	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	227668	10.169	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.700%			
Target Compounds						Qvalue

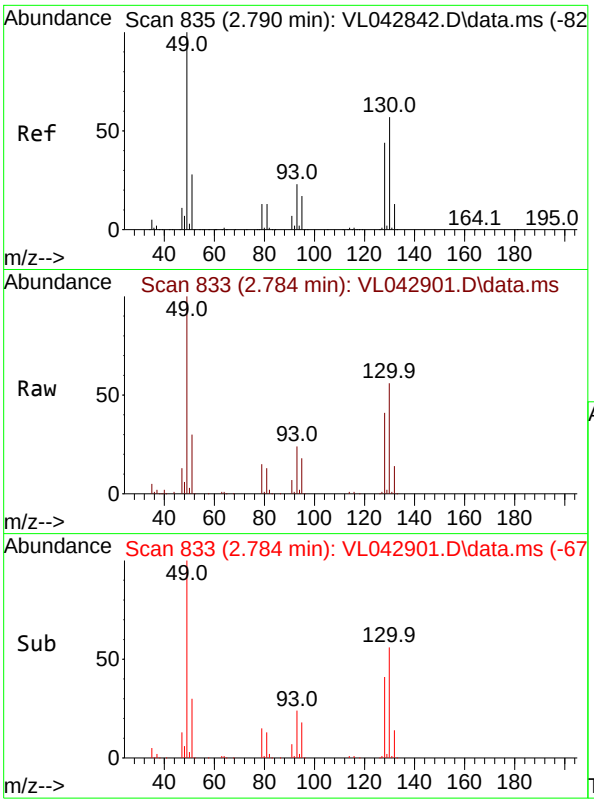
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
Data File : VL042901.D
Acq On : 08 Sep 2025 11:55
Operator : SY/MD
Sample : VL0908ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABL01

Quant Time: Sep 09 00:55:32 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 : Tue Sep 09 00:52:26 2025
Response via : Initial Calibration



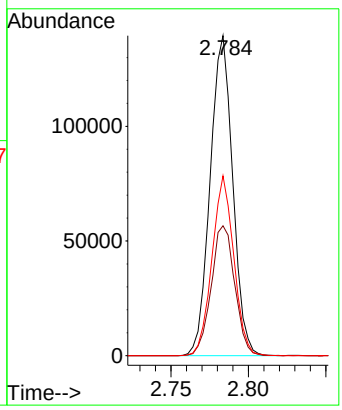


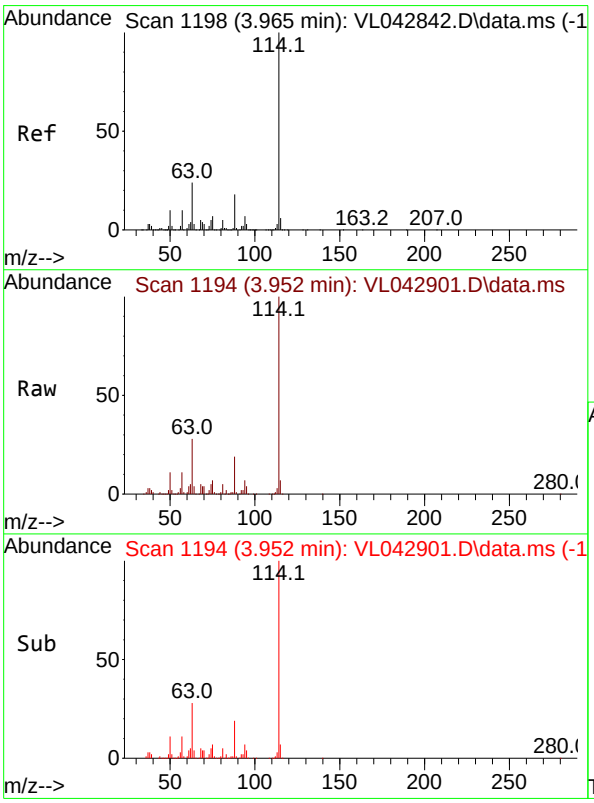
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. 0.007 min
Lab File: VL042901.D
Acq: 08 Sep 2025 11:55

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABL01

Tgt Ion: 49 Resp: 141293

Ion	Ratio	Lower	Upper
49	100		
128	42.4	23.7	71.1
130	54.2	30.6	91.6

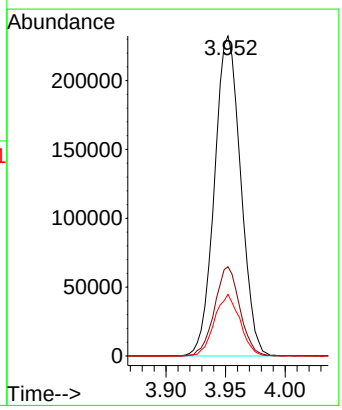


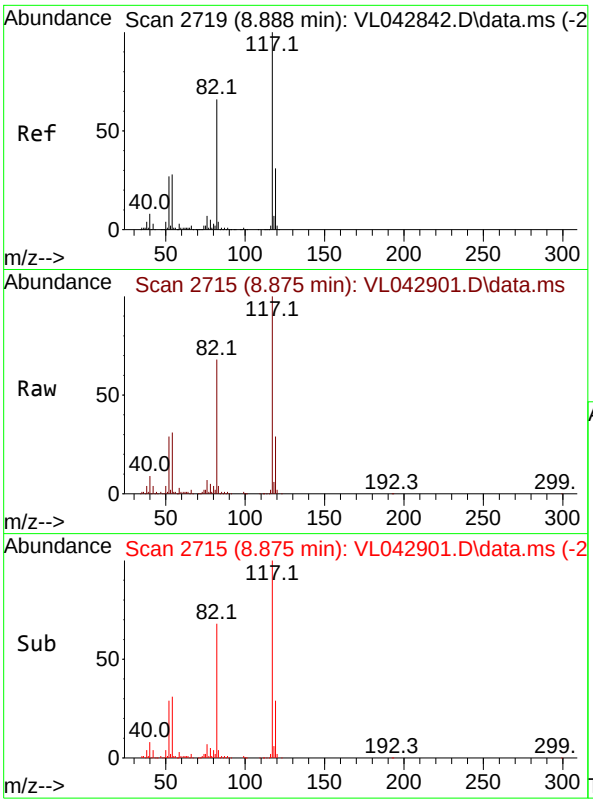


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. 0.009 min
Lab File: VL042901.D
Acq: 08 Sep 2025 11:55

Tgt Ion:114 Resp: 355217

Ion	Ratio	Lower	Upper
114	100		
63	26.9	19.7	29.5
88	18.7	14.4	21.6



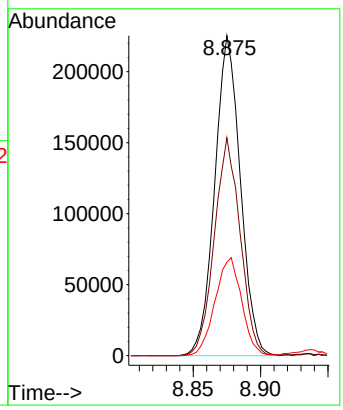


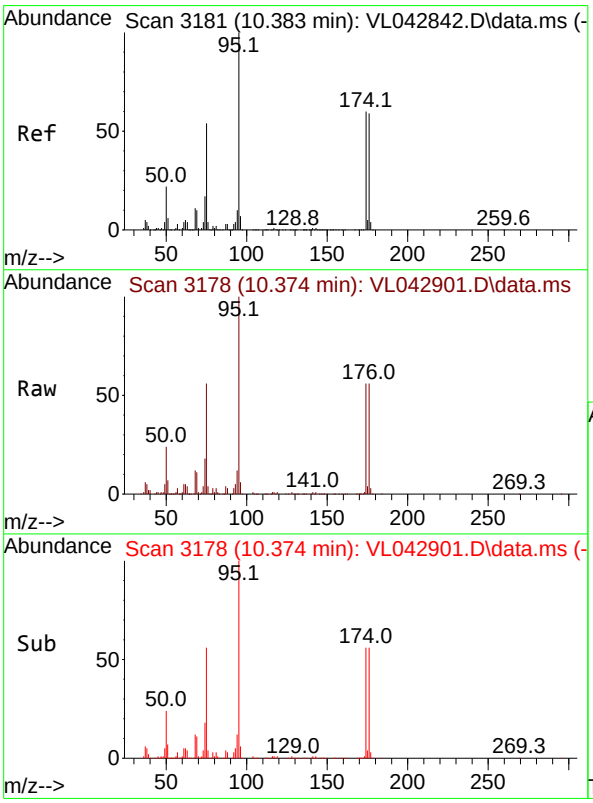
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL042901.D
Acq: 08 Sep 2025 11:55

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABL01

Tgt Ion:117 Resp: 298537

Ion	Ratio	Lower	Upper
117	100		
82	68.4	54.6	81.8
119	31.8	25.9	38.9

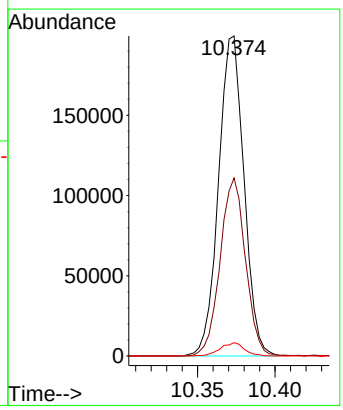




#68
1-Bromo-4-Fluorobenzene
Concen: 10.169 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.009 min
Lab File: VL042901.D
Acq: 08 Sep 2025 11:55

Tgt Ion: 95 Resp: 227668

Ion	Ratio	Lower	Upper
95	100		
174	55.5	48.4	72.6
175	3.9	3.8	5.8



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

Report of Analysis

Client:	Apex Companies, LLC.	Date Collected:	
Project:	Emerson Vapor Intrusion REG006-0309010-25011690	Date Received:	
Client Sample ID:	VL0908ABS01	SDG No.:	Q3037
Lab Sample ID:	VL0908ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042902.D	1		09/08/25 13:35	VL090825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL ug/m3	LOQ / CRQL ug/m3	
TARGETS							
75-01-4	Vinyl Chloride	9.60	24.5		0.080	0.080	
107-06-2	1,2-Dichloroethane	12.7	51.4		0.36	2.02	
79-01-6	Trichloroethene	10.4	55.9		0.11	0.16	
127-18-4	Tetrachloroethene	9.60	65.1		0.14	0.20	
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.5			70 (65) - 130 (135)	105%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	140000		2.781			
540-36-3	1,4-Difluorobenzene	366000		3.946			
3114-55-4	Chlorobenzene-d5	306000		8.872			

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

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
Data File : VL042902.D
Acq On : 08 Sep 2025 13:35
Operator : SY/MD
Sample : VL0908ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 09 00:55:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Sep 09 00:52:26 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.781	49	139945	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.946	114	365857	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	306385	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.367	95	240840	10.481	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 104.800%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.492	85	220085	10.731	ppbv	99
3) Chlorodifluoromethane	1.470	51	263595	11.627	ppbv	98
4) Chloromethane	1.528	50	84783	10.244	ppbv	99
5) Vinyl Chloride	1.577	62	78545	9.636	ppbv	99
6) Bromomethane	1.664	94	31405	9.636	ppbv	96
7) Chloroethane	1.700	64	30810	9.679	ppbv	94
8) Dichlorotetrafluoroethane	1.551	85	175617	10.464	ppbv	96
9) Propene	1.476	41	56496m	5.770	ppbv	
10) Heptane	4.965	43	256593	9.785	ppbv	99
11) Trichlorofluoromethane	1.871	101	206104	10.185	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.133	101	164464	10.197	ppbv	96
13) Ethanol	1.716	45	7225	8.071	ppbv	92
14) Bromoethene	1.777	108	58442	10.009	ppbv	99
15) Acetone	1.829	43	156147	8.435	ppbv	99
16) 1,3-Butadiene	1.606	39	77632	9.250	ppbv	97
17) tert-Butyl alcohol	2.036	59	176056	8.020	ppbv	99
18) 1,1-Dichloroethene	2.026	96	68830	9.707	ppbv	97
19) Isopropyl Alcohol	1.881	45	97198	8.791	ppbv	93
20) Methylene Chloride	2.056	84	62334	8.038	ppbv	93
21) Allyl Chloride	2.091	41	125191	9.573	ppbv	94
22) trans-1,2-Dichloroethene	2.334	96	82077	10.005	ppbv	98
23) Vinyl Acetate	2.454	43	270676	10.634	ppbv #	99
24) 1,1-Dichloroethane	2.402	63	164910	10.066	ppbv	99
25) Ethyl Acetate	2.826	43	458640	10.237	ppbv	99
26) Hexane	2.816	57	207705	10.043	ppbv	95
27) Carbon Disulfide	2.143	76	206751	10.273	ppbv	98
28) Methyl tert-Butyl Ether	2.431	73	95768	9.082	ppbv	93
29) Chloroform	2.839	83	311859	10.562	ppbv	97
30) Cyclohexane	3.845	84	169353	9.340	ppbv	96
31) cis-1,2-Dichloroethene	2.713	61	202349	9.796	ppbv	97
32) 1,1,1-Trichloroethane	3.357	97	293618	9.409	ppbv	96
34) 2-Butanone	2.551	43	298071	12.066	ppbv	98
35) Carbon Tetrachloride	3.748	117	297085	11.779	ppbv	98
36) Benzene	3.645	78	407263	11.625	ppbv	99
37) 1,2-Dichloroethane	3.208	62	232809	12.720	ppbv	99
38) Trichloroethene	4.532	130	166529	10.408	ppbv	96
39) 1,2-Dichloropropane	4.302	63	153042	11.961	ppbv	96
40) 1,4-Dioxane	4.567	88	61682	10.138	ppbv #	88
41) Tetrahydrofuran	3.046	42	164268	11.927	ppbv	97
42) Bromodichloromethane	4.473	83	336858	12.351	ppbv	98
43) Methyl Methacrylate	4.862	69	158457	10.979	ppbv	98
44) 2,2,4-Trimethylpentane	4.625	57	701486	11.797	ppbv	98
45) t-1,3-Dichloropropene	6.399	75	169435	10.403	ppbv	97

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
Data File : VL042902.D
Acq On : 08 Sep 2025 13:35
Operator : SY/MD
Sample : VL0908ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 09 00:55:51 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 : Tue Sep 09 00:52:26 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46)	cis-1,3-Dichloropropene	5.583	75	223871	11.031	ppbv		96
47)	1,1,2-Trichloroethane	6.564	97	156460	11.541	ppbv		95
48)	Dibromochloromethane	7.373	129	256923	11.712	ppbv		99
49)	Bromoform	9.474	173	203018	11.222	ppbv		99
50)	4-Methyl-2-Pentanone	5.732	43	390291	11.688	ppbv		97
51)	2-Hexanone	7.422	43	311589	11.858	ppbv	#	95
52)	Tetrachloroethene	8.212	164	122229	9.644	ppbv		93
53)	Toluene	6.920	91	447844	10.752	ppbv		99
54)	1,2-Dibromoethane	7.639	107	223417	11.277	ppbv		96
56)	1,1,1,2-Tetrachloroethane	8.917	131	190922	12.050	ppbv		98
57)	Chlorobenzene	8.911	112	345342	11.855	ppbv		99
58)	Ethyl Benzene	9.344	91	618650	11.442	ppbv		99
59)	m/p-Xylene	9.542	91	1015739m	23.968	ppbv		
60)	o-Xylene	9.956	91	504922	11.844	ppbv		99
61)	Styrene	9.862	104	212594	10.644	ppbv		100
62)	Isopropylbenzene	10.532	105	717761	11.521	ppbv		99
63)	1,1,2,2-Tetrachloroethane	9.953	83	295111	12.588	ppbv		99
64)	n-propylbenzene	10.982	120	186258	11.717	ppbv		94
65)	tert-Butylbenzene	11.523	119	633844	11.541	ppbv		97
66)	Benzyl Chloride	11.607	91	55458	7.954	ppbv		99
67)	sec-Butylbenzene	11.759	105	904977	11.739	ppbv		99
69)	p-Isopropyltoluene	11.918	119	743217	11.229	ppbv		98
70)	n-Butylbenzene	12.274	91	793205	12.084	ppbv		97
71)	2-Chlorotoluene	10.892	91	551398	11.398	ppbv		97
72)	4-Ethyltoluene	11.118	105	613510	11.871	ppbv		99
73)	1,3,5-Trimethylbenzene	11.196	105	505222	11.496	ppbv		100
74)	1,2,4-Trimethylbenzene	11.529	105	562868	11.668	ppbv		99
75)	1,3-Dichlorobenzene	11.600	146	322979	11.778	ppbv		99
76)	1,4-Dichlorobenzene	11.665	146	320689	11.563	ppbv		99
77)	1,2-Dichlorobenzene	11.940	146	309433	11.524	ppbv		100
78)	Hexachloro-1,3-Butadiene	13.876	225	187990	8.542	ppbv		97
79)	Naphthalene	13.507	128	477313	10.914	ppbv		99
80)	Naphthalene,2-methyl-	14.449	142	142381	8.713	ppbv		97
81)	1,2,4-Trichlorobenzene	13.432	180	228630	10.401	ppbv		99

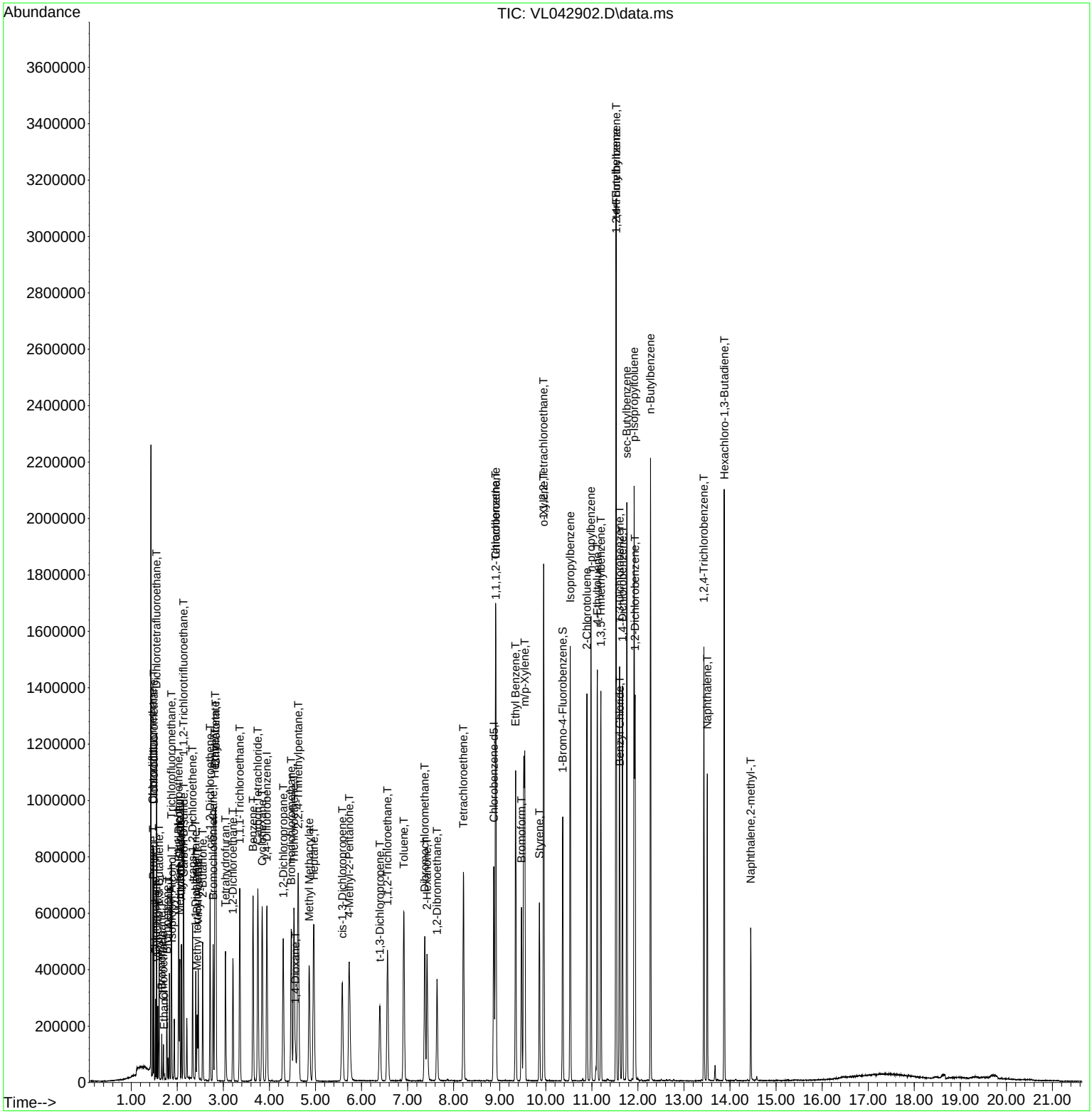
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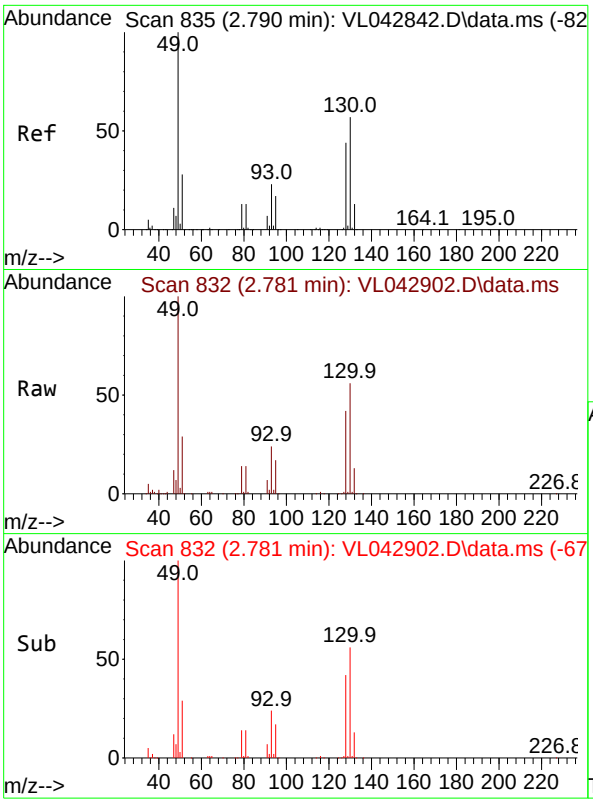
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Data File : VL042902.D
Acq On : 08 Sep 2025 13:35
Operator : SY/MD
Sample : VL0908ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 09 00:55:51 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 : Tue Sep 09 00:52:26 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 09/09/2025
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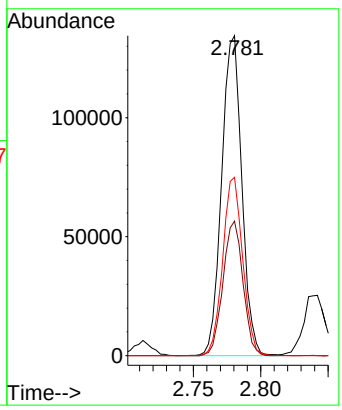




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 8
Delta R.T. 0.004 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 49 Resp: 13994

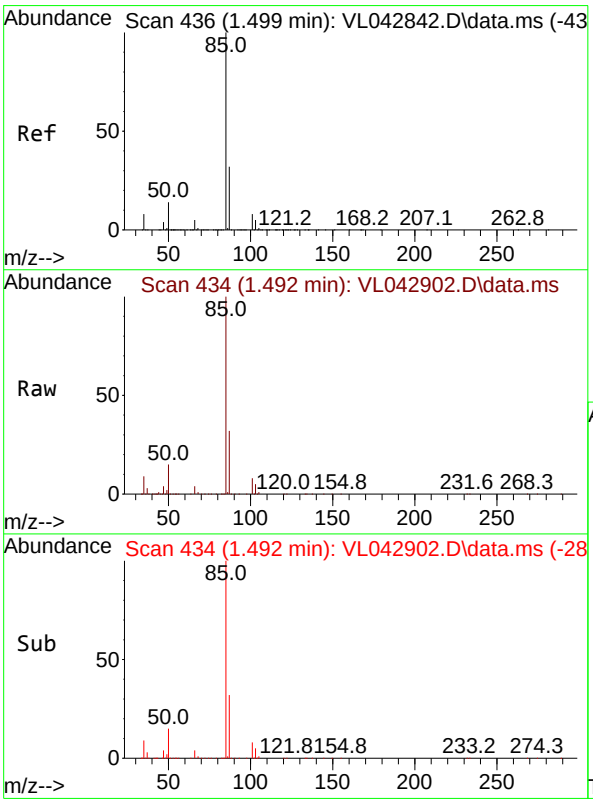
Ion	Ratio	Lower	Upper
49	100		
128	41.6	23.7	71.1
130	55.2	30.6	91.6



Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Manual Integrations
APPROVED

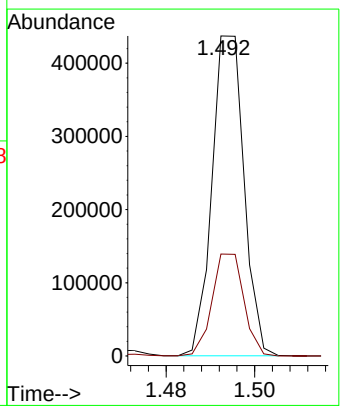
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

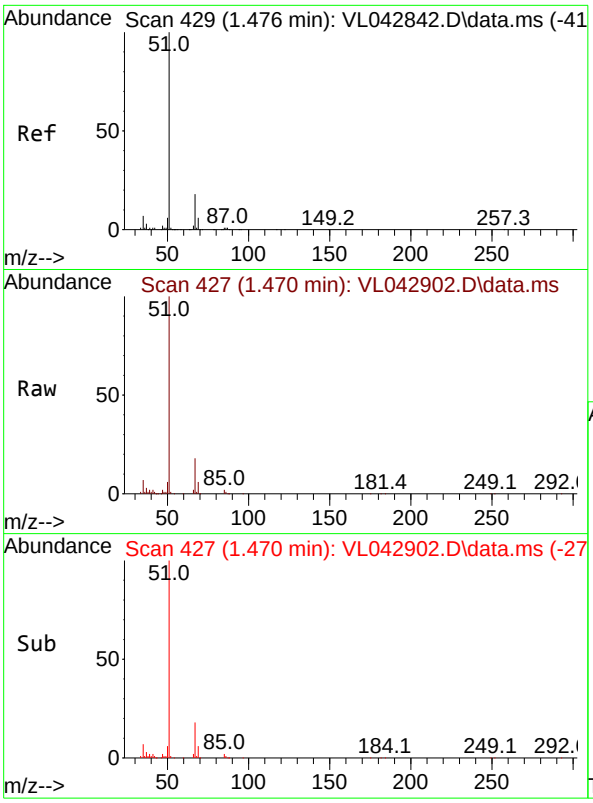


#2
Dichlorodifluoromethane
Concen: 10.731 ppbv
RT: 1.492 min Scan# 434
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 85 Resp: 220085

Ion	Ratio	Lower	Upper
85	100		
87	31.9	25.3	37.9

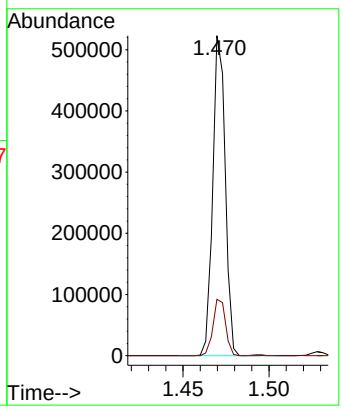




#3
Chlorodifluoromethane
Concen: 11.627 ppbv
RT: 1.470 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 51 Resp: 26359

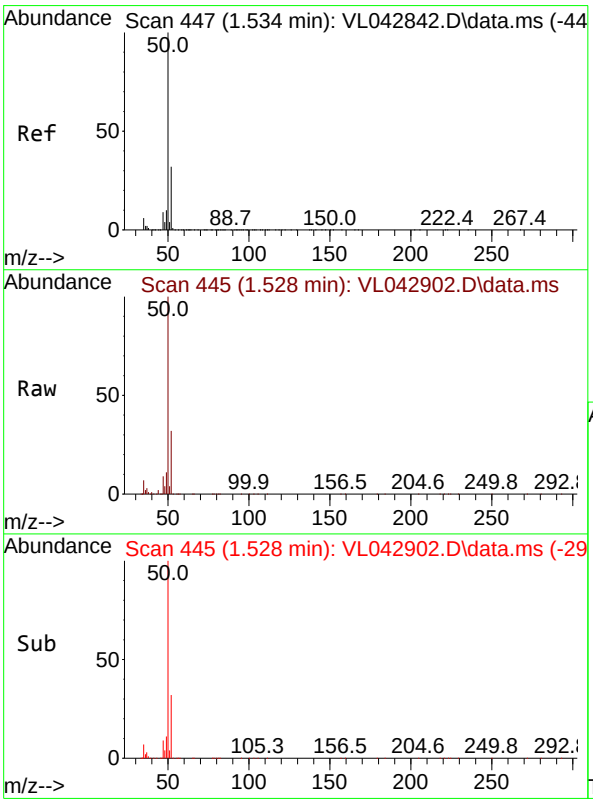
Ion	Ratio	Lower	Upper
51	100		
67	17.8	14.9	22.3



Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Manual Integrations
APPROVED

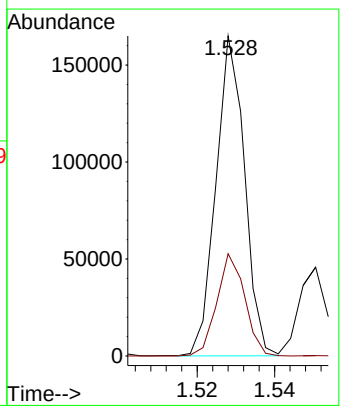
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

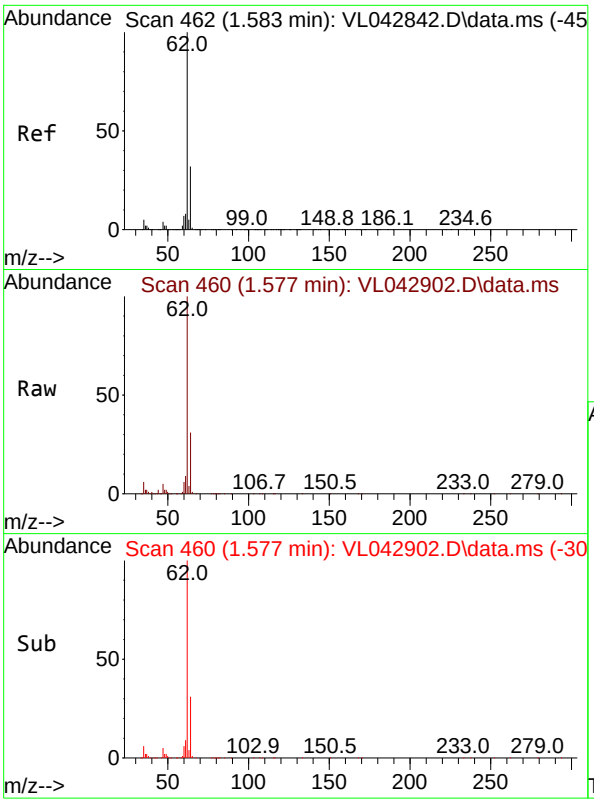


#4
Chloromethane
Concen: 10.244 ppbv
RT: 1.528 min Scan# 445
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 50 Resp: 84783

Ion	Ratio	Lower	Upper
50	100		
52	32.0	25.9	38.9

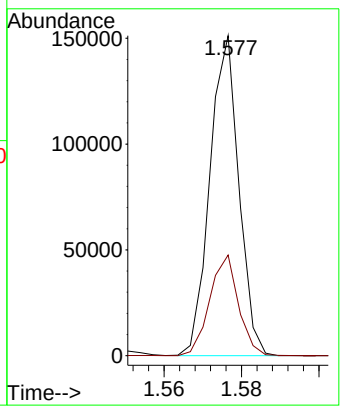




#5
Vinyl Chloride
Concen: 9.636 ppbv
RT: 1.577 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 62 Resp: 7854

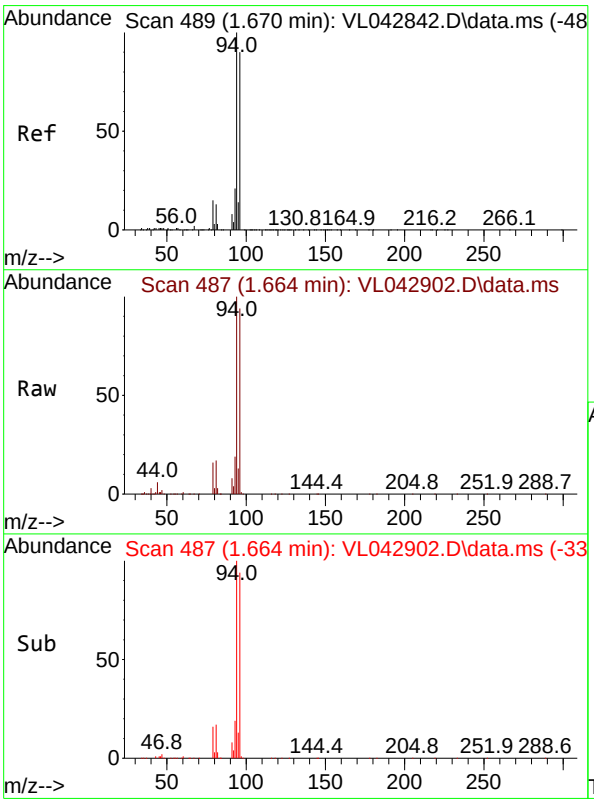
Ion	Ratio	Lower	Upper
62	100		
64	31.5	25.4	38.2



Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Manual Integrations
APPROVED

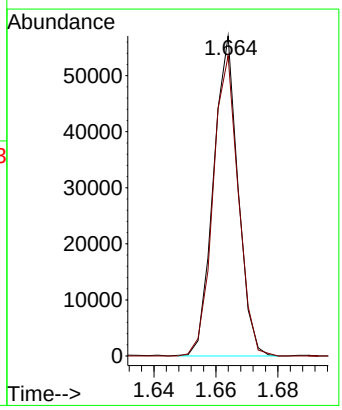
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

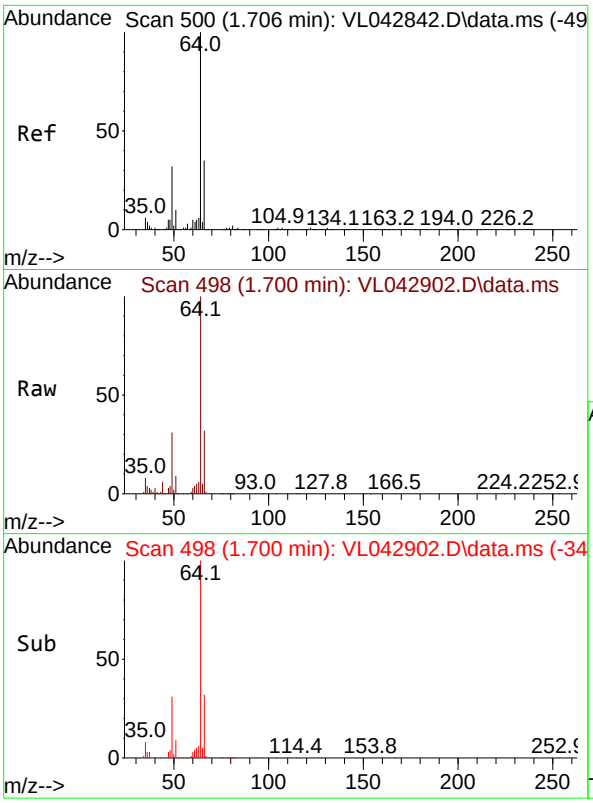


#6
Bromomethane
Concen: 9.636 ppbv
RT: 1.664 min Scan# 487
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 94 Resp: 31405

Ion	Ratio	Lower	Upper
94	100		
96	93.8	72.1	108.1

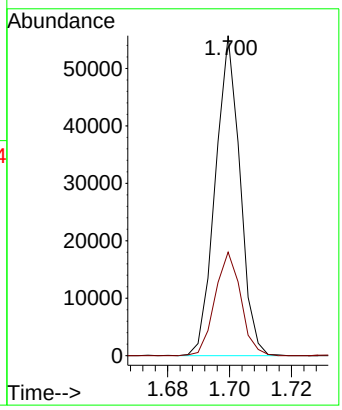




#7
Chloroethane
Concen: 9.679 ppbv
RT: 1.700 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 64 Resp: 3081

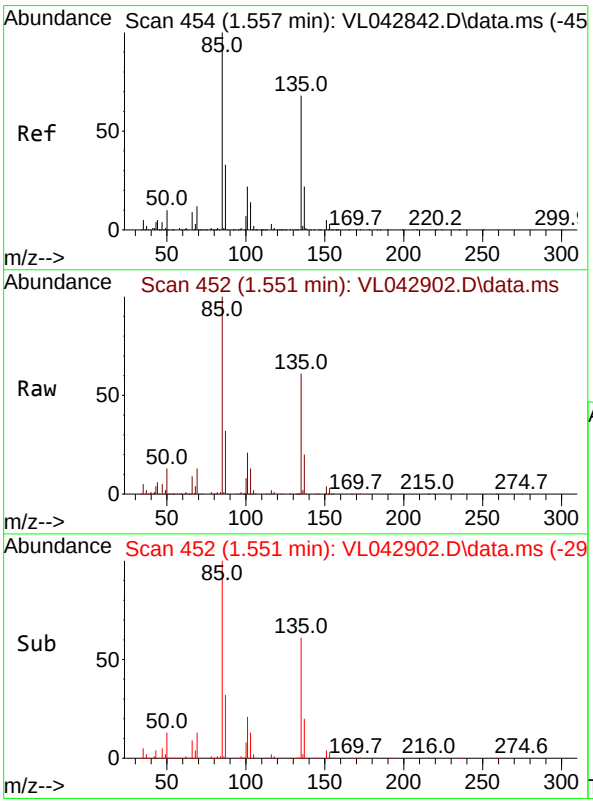
Ion	Ratio	Lower	Upper
64	100		
66	32.3	28.6	42.8



Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Manual Integrations
APPROVED

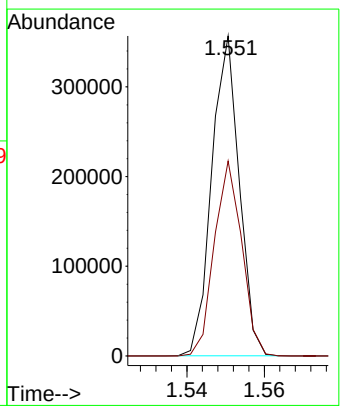
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

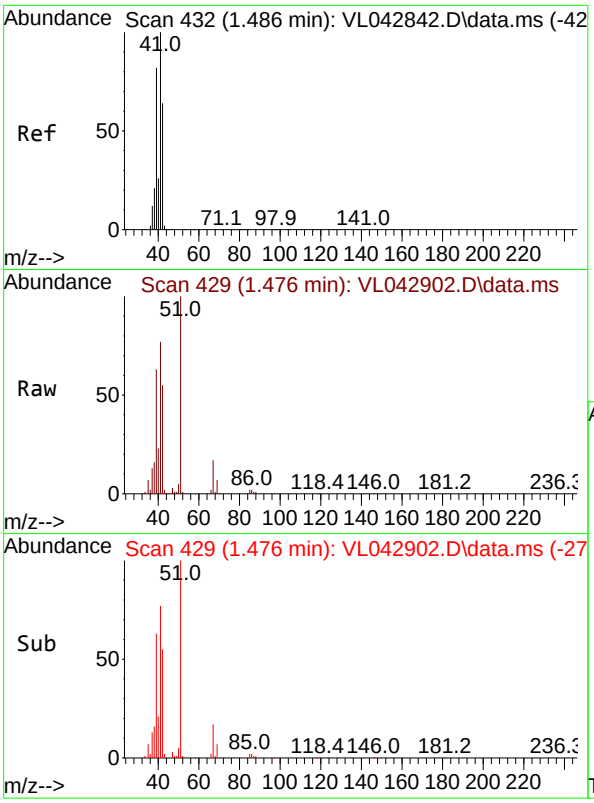


#8
Dichlorotetrafluoroethane
Concen: 10.464 ppbv
RT: 1.551 min Scan# 452
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 85 Resp: 175617

Ion	Ratio	Lower	Upper
85	100		
135	60.9	51.2	76.8

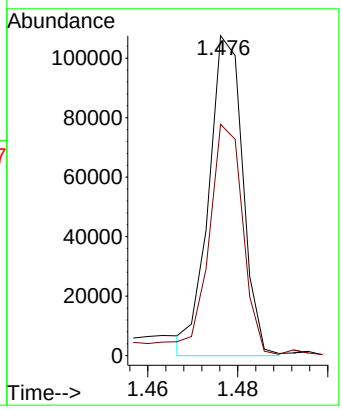




#9
Propene
Concen: 5.770 ppbv m
RT: 1.476 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 41 Resp: 5649

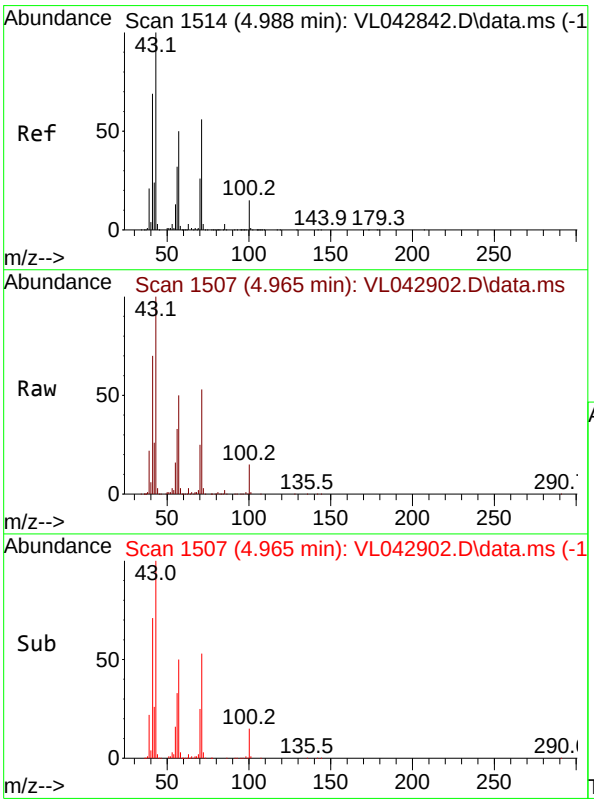
Ion	Ratio	Lower	Upper
41	100		
42	10.7	53.0	79.4



Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Manual Integrations
APPROVED

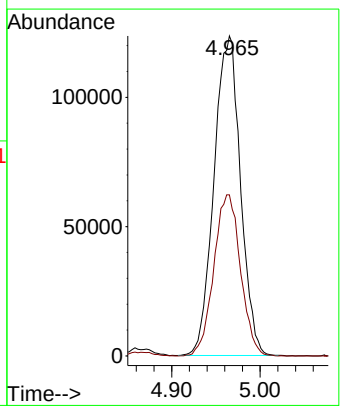
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

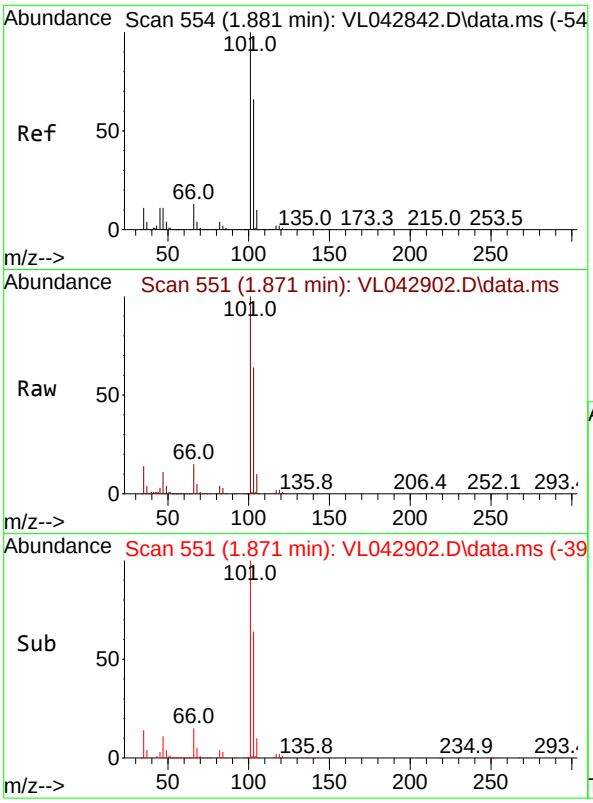


#10
Heptane
Concen: 9.785 ppbv
RT: 4.965 min Scan# 1507
Delta R.T. 0.006 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 43 Resp: 256593

Ion	Ratio	Lower	Upper
43	100		
57	50.9	41.4	62.0





#11
Trichlorofluoromethane
Concen: 10.185 ppbv
RT: 1.871 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

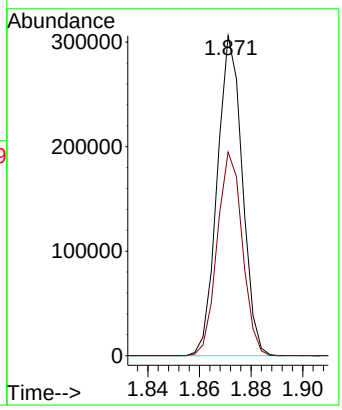
Tgt Ion:101 Resp: 20610

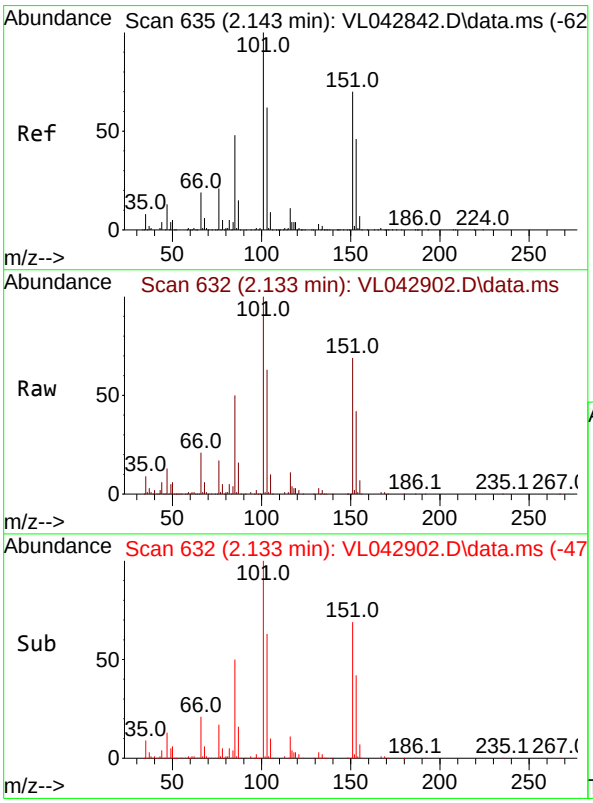
Ion	Ratio	Lower	Upper
101	100		
103	63.6	52.5	78.7

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

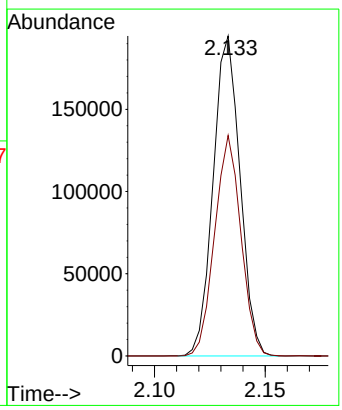


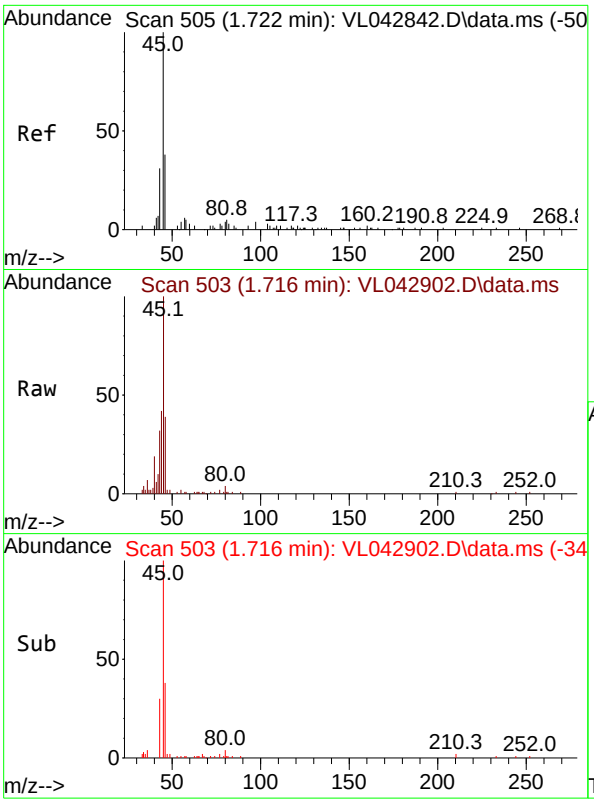


#12
1,1,2-Trichlorotrifluoroethane
Concen: 10.197 ppbv
RT: 2.133 min Scan# 632
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion:101 Resp: 164464

Ion	Ratio	Lower	Upper
101	100		
151	67.4	56.4	84.6

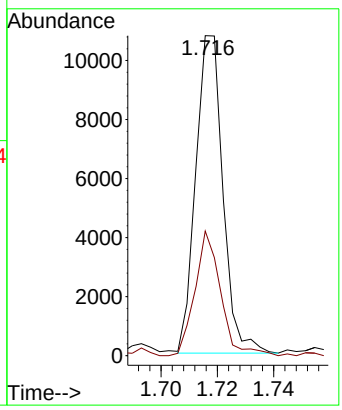




#13
Ethanol
Concen: 8.071 ppbv
RT: 1.716 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 45 Resp: 722

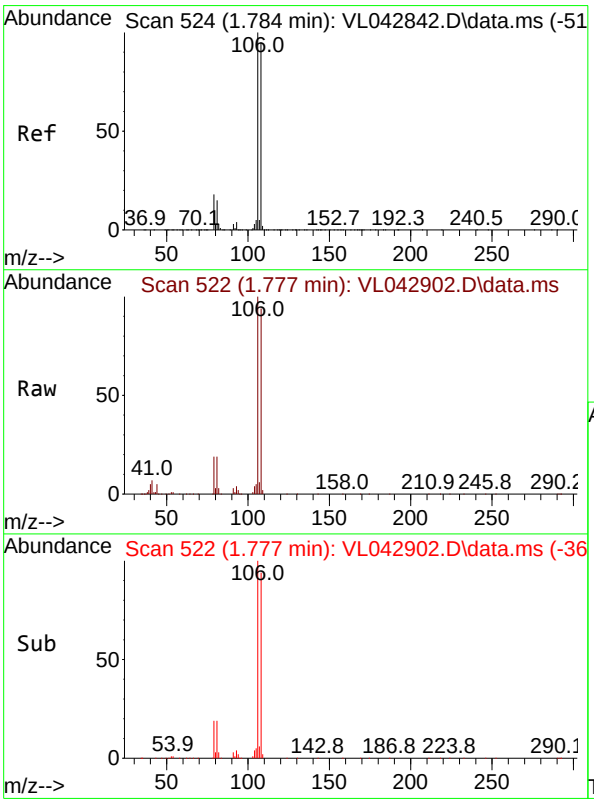
Ion	Ratio	Lower	Upper
45	100		
46	38.4	17.5	69.9



Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Manual Integrations
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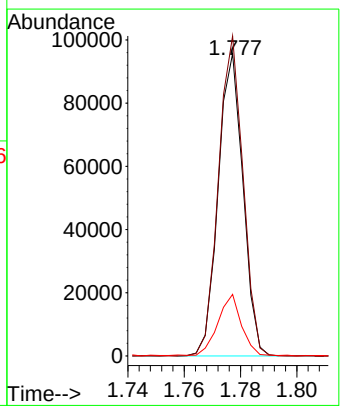
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

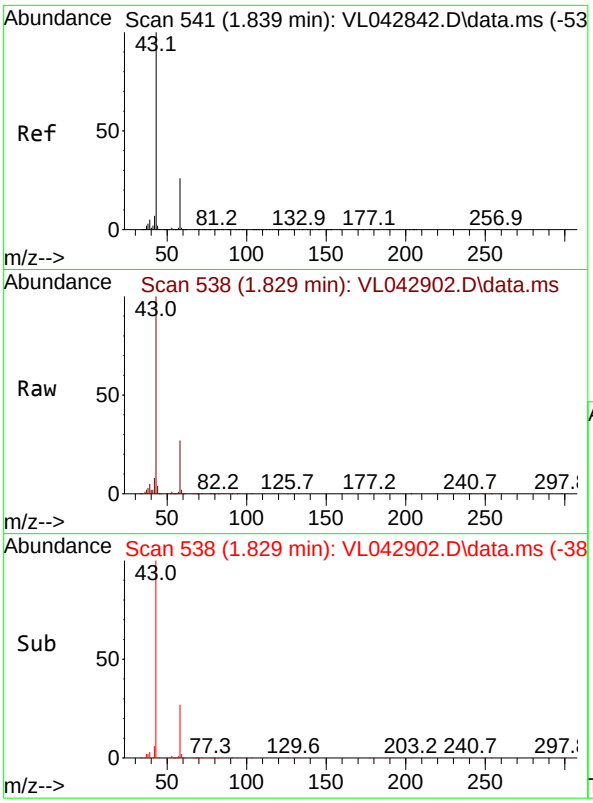


#14
Bromoethene
Concen: 10.009 ppbv
RT: 1.777 min Scan# 522
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion:108 Resp: 58442

Ion	Ratio	Lower	Upper
108	100		
106	104.8	85.1	127.7
79	20.1	16.3	24.5

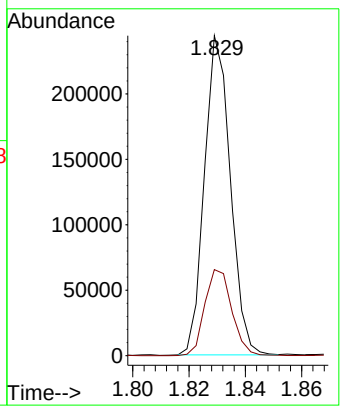




#15
Acetone
Concen: 8.435 ppbv
RT: 1.829 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 43 Resp: 15614

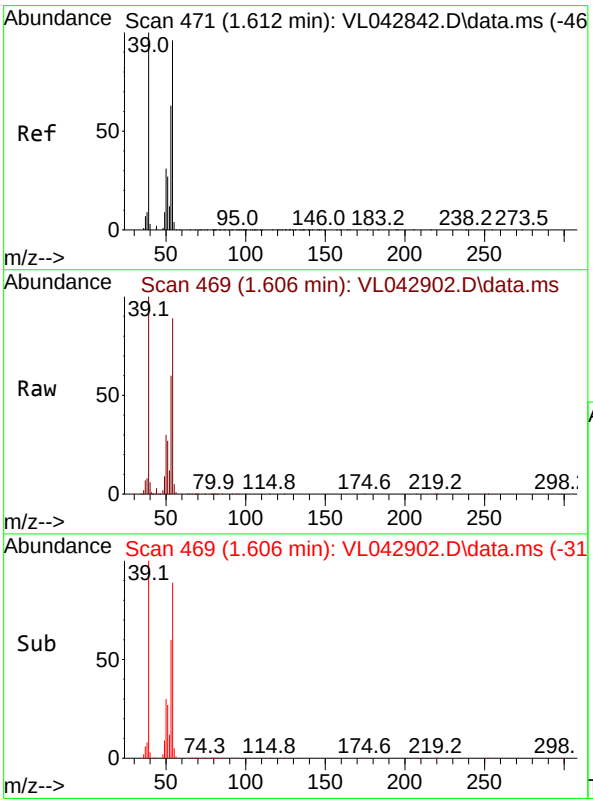
Ion	Ratio	Lower	Upper
43	100		
58	28.3	22.4	33.6



Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Manual Integrations
APPROVED

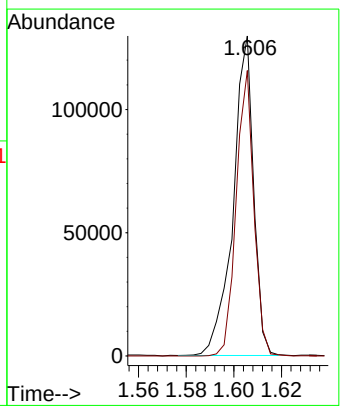
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

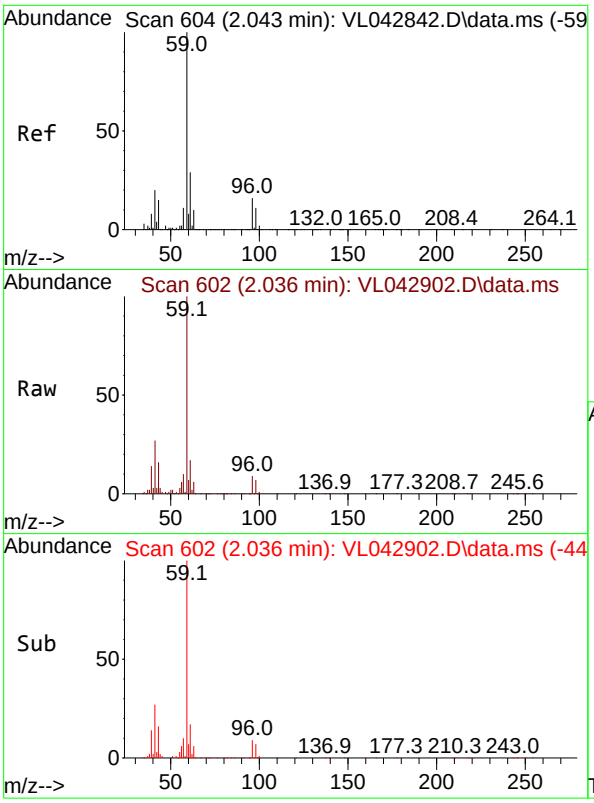


#16
1,3-Butadiene
Concen: 9.250 ppbv
RT: 1.606 min Scan# 469
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 39 Resp: 77632

Ion	Ratio	Lower	Upper
39	100		
54	76.8	63.6	95.4

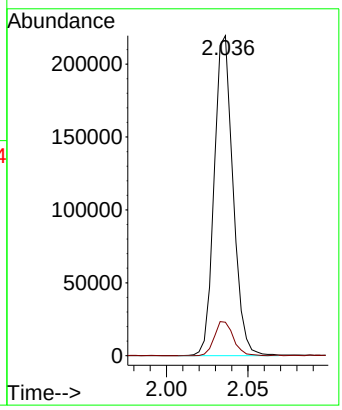




#17
tert-Butyl alcohol
Concen: 8.020 ppbv
RT: 2.036 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 59 Resp: 17605

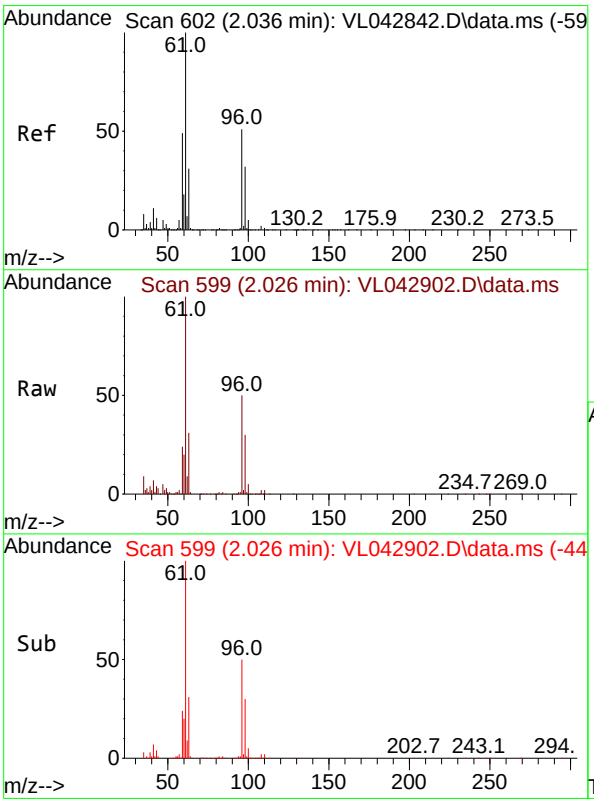
Ion	Ratio	Lower	Upper
59	100		
57	10.9	9.0	13.4



Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Manual Integrations
APPROVED

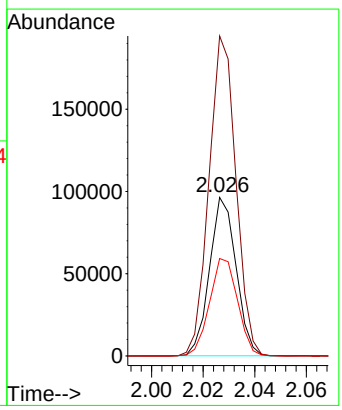
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

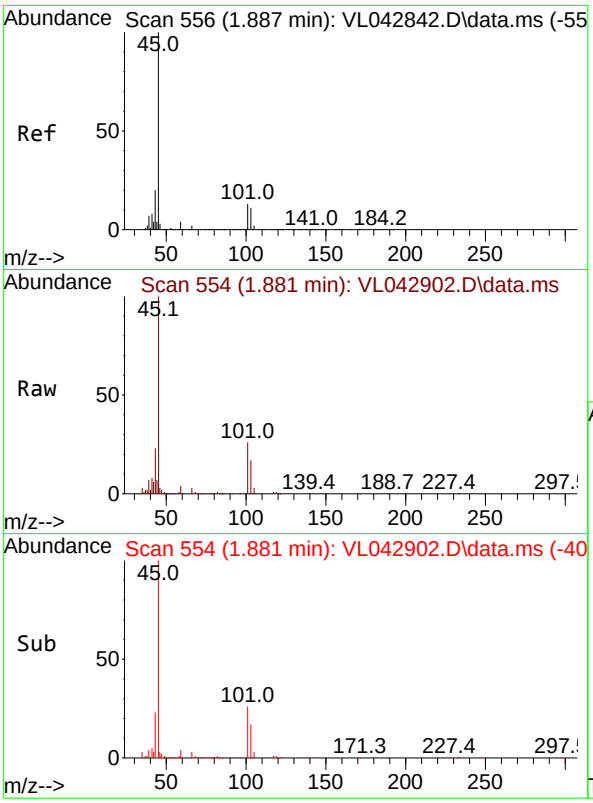


#18
1,1-Dichloroethene
Concen: 9.707 ppbv
RT: 2.026 min Scan# 599
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 96 Resp: 68830

Ion	Ratio	Lower	Upper
96	100		
61	201.9	158.2	237.4
98	61.5	50.6	76.0

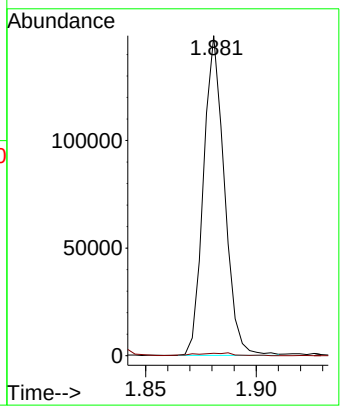




#19
Isopropyl Alcohol
Concen: 8.791 ppbv
RT: 1.881 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 45 Resp: 9719

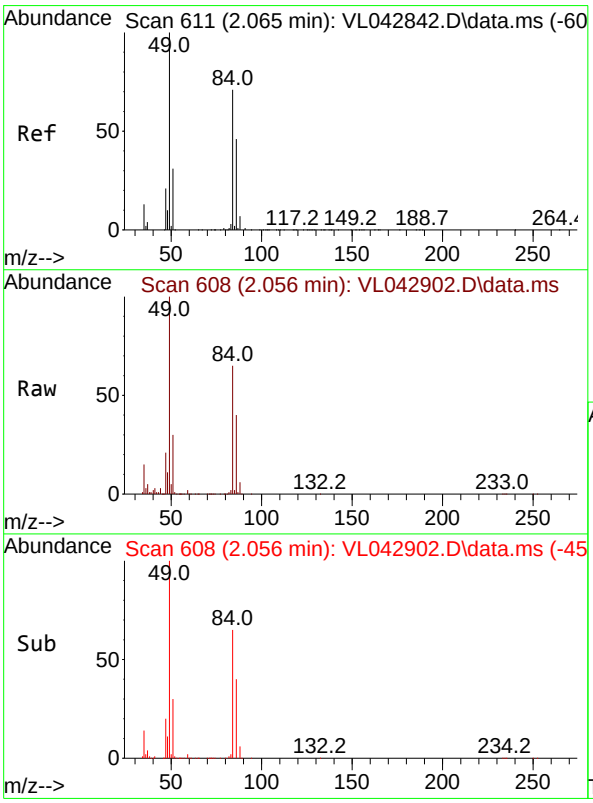
Ion	Ratio	Lower	Upper
45	100		
58	45.5	32.7	49.1



Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Manual Integrations
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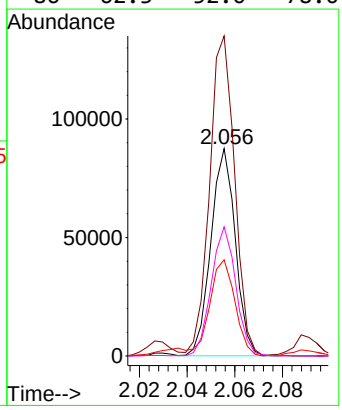
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

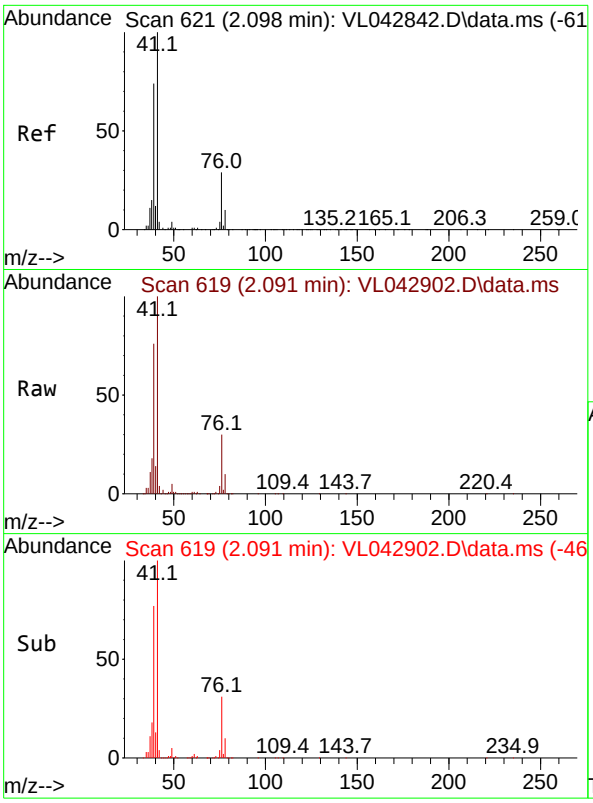


#20
Methylene Chloride
Concen: 8.038 ppbv
RT: 2.056 min Scan# 608
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 84 Resp: 62334

Ion	Ratio	Lower	Upper
84	100		
49	153.6	112.3	168.5
51	46.1	36.0	54.0
86	62.3	52.0	78.0

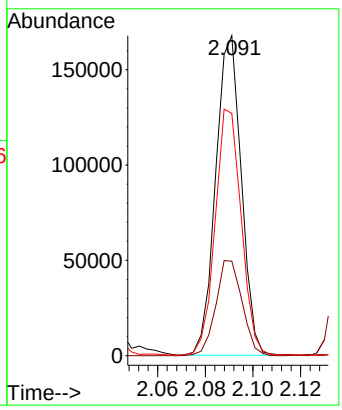




#21
Allyl Chloride
Concen: 9.573 ppbv
RT: 2.091 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 41 Resp: 12519

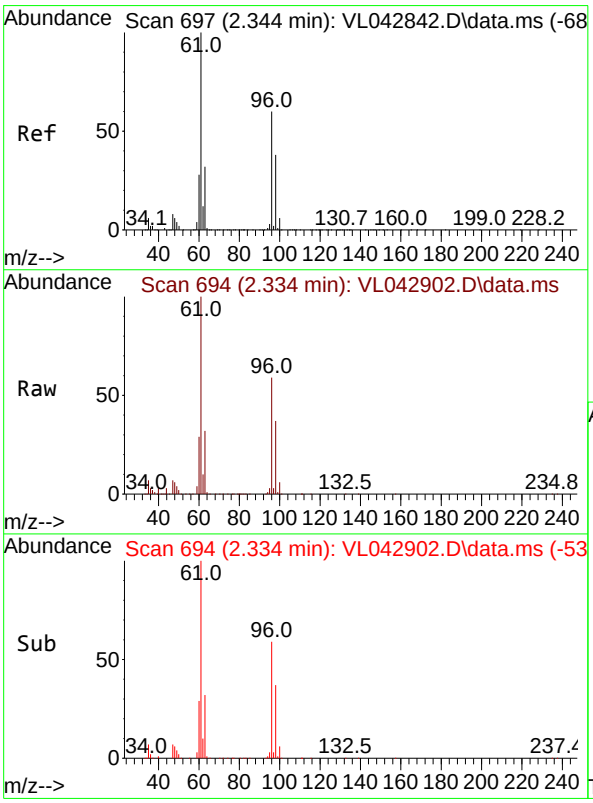
Ion	Ratio	Lower	Upper
41	100		
76	30.6	23.9	35.9
39	78.4	57.8	86.6



Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Manual Integrations
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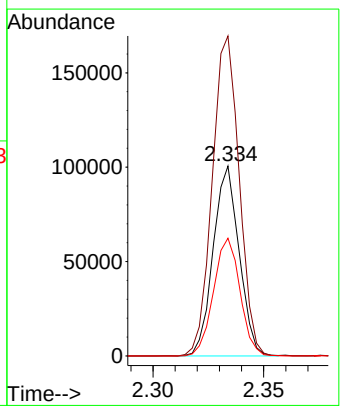
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

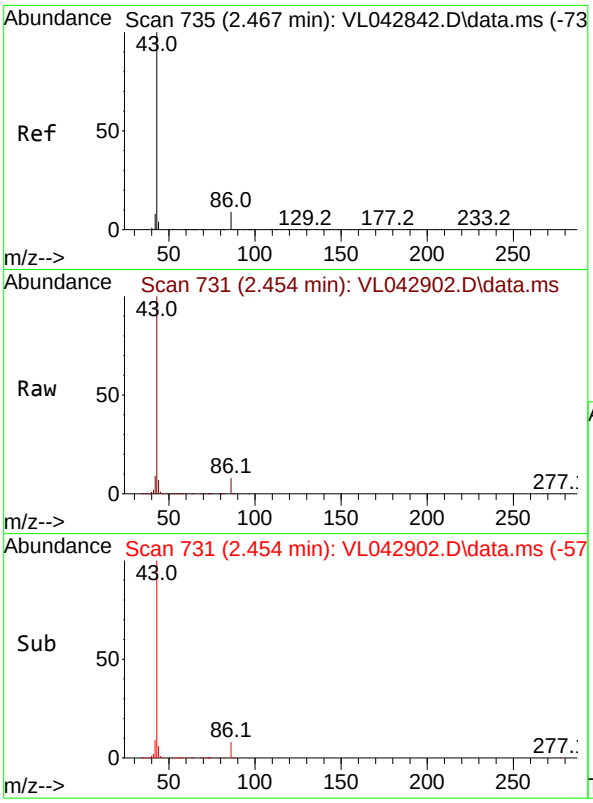


#22
trans-1,2-Dichloroethene
Concen: 10.005 ppbv
RT: 2.334 min Scan# 694
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 96 Resp: 82077

Ion	Ratio	Lower	Upper
96	100		
61	168.5	132.6	199.0
98	62.0	50.0	75.0

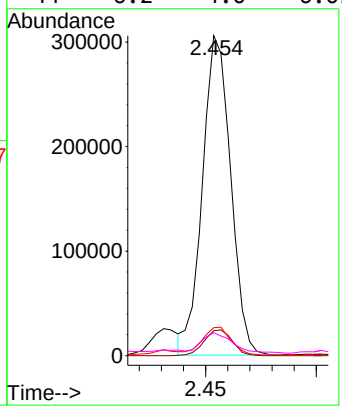




#23
Vinyl Acetate
Concen: 10.634 ppbv
RT: 2.454 min Scan# 7
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 43 Resp: 27067

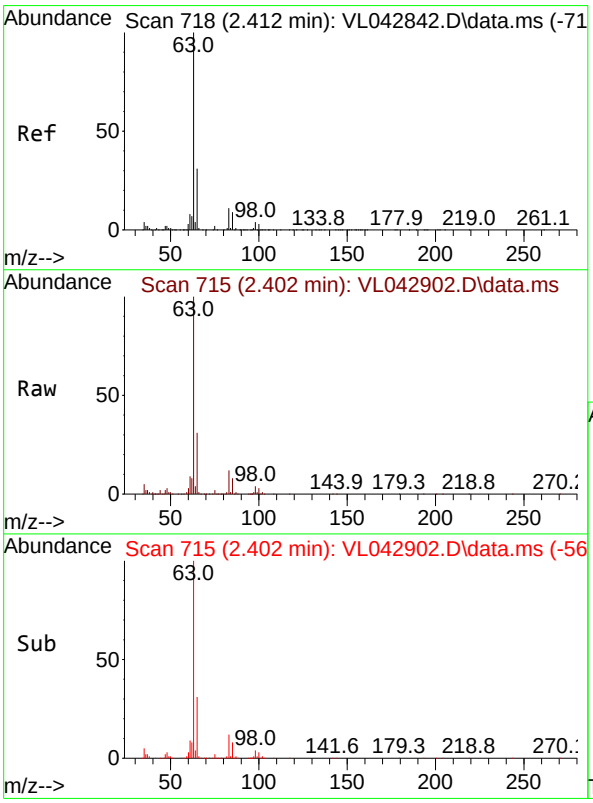
Ion	Ratio	Lower	Upper
43	100		
86	7.8	6.6	9.8
42	8.6	7.0	10.6
44	6.2	4.0	6.0#



Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Manual Integrations
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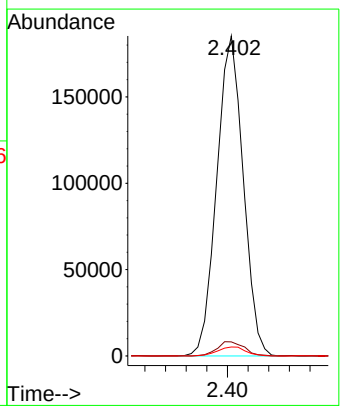
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

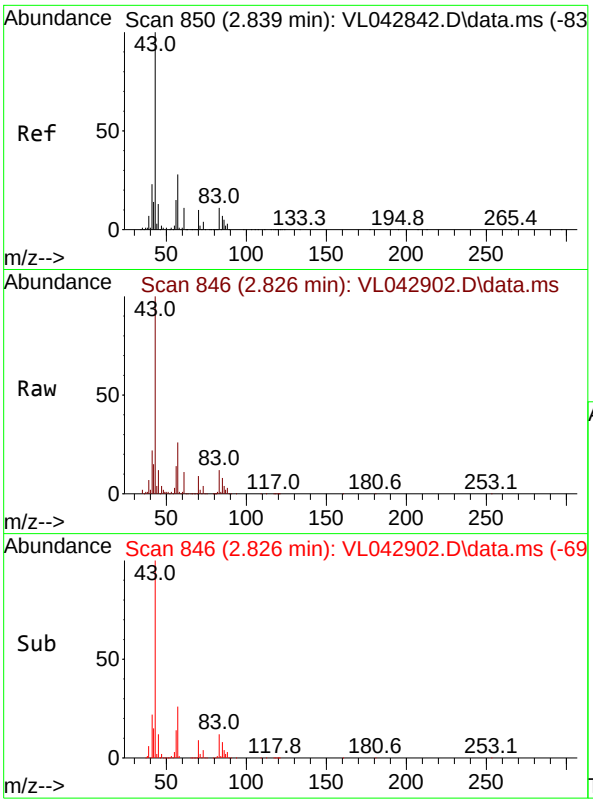


#24
1,1-Dichloroethane
Concen: 10.066 ppbv
RT: 2.402 min Scan# 715
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 63 Resp: 164910

Ion	Ratio	Lower	Upper
63	100		
98	4.4	2.1	6.5
100	2.8	1.7	5.1

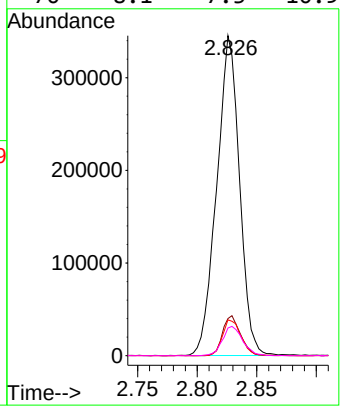




#25
Ethyl Acetate
Concen: 10.237 ppbv
RT: 2.826 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 43 Resp: 45864

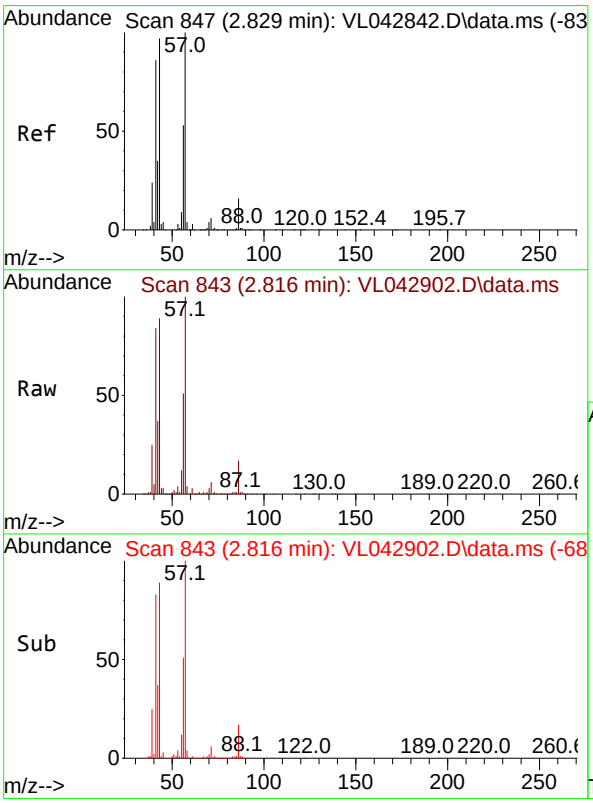
Ion	Ratio	Lower	Upper
43	100		
45	10.0	8.1	12.1
61	9.2	7.4	11.2
70	8.1	7.3	10.9



Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Manual Integrations
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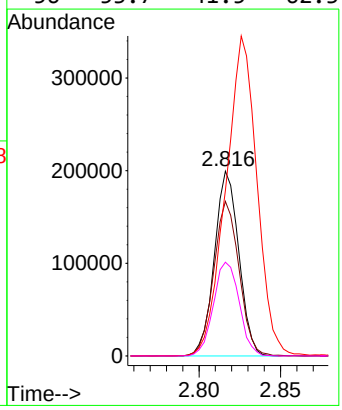
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

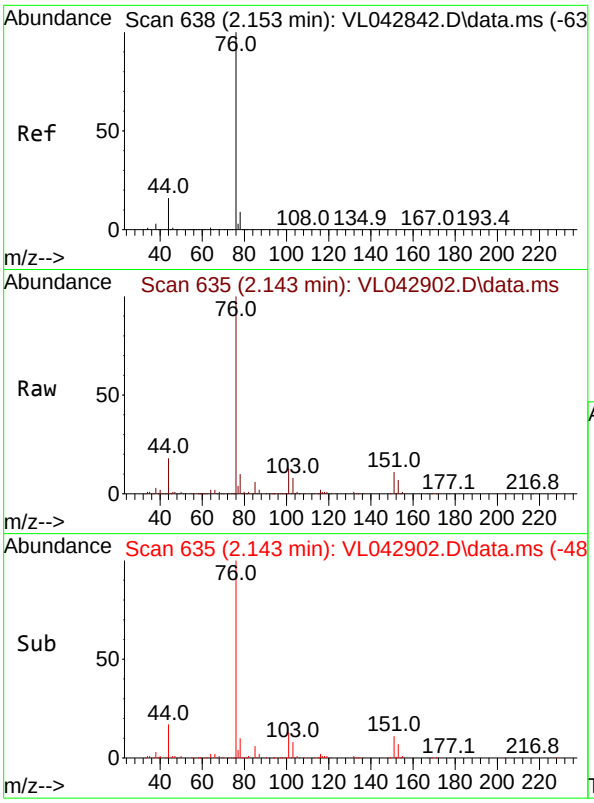


#26
Hexane
Concen: 10.043 ppbv
RT: 2.816 min Scan# 843
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 57 Resp: 207705

Ion	Ratio	Lower	Upper
57	100		
41	87.5	68.6	103.0
43	221.9	168.5	252.7
56	53.7	41.5	62.3

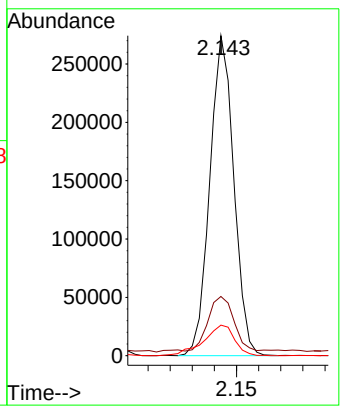




#27
Carbon Disulfide
Concen: 10.273 ppbv
RT: 2.143 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 76 Resp: 20675

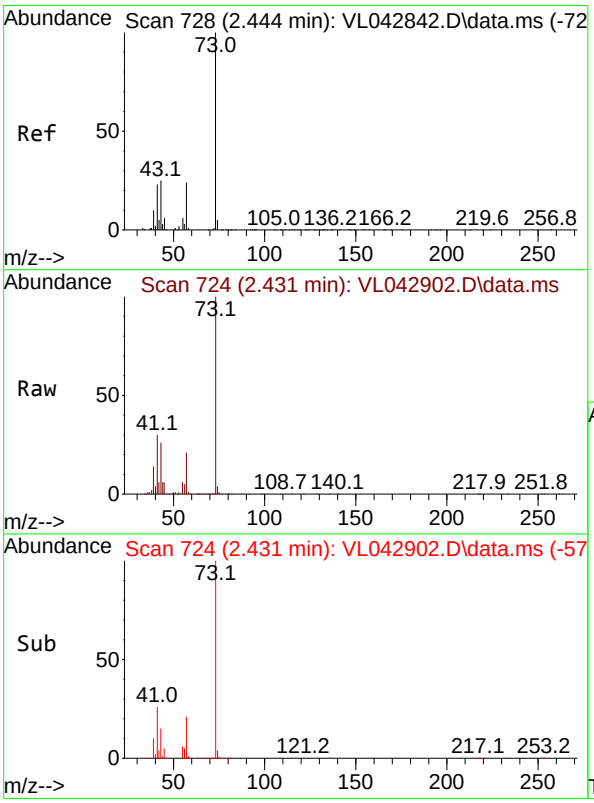
Ion	Ratio	Lower	Upper
76	100		
44	20.9	15.9	23.9
78	12.3	9.5	14.3



Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Manual Integrations
APPROVED

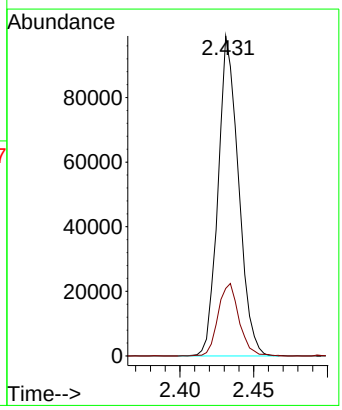
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

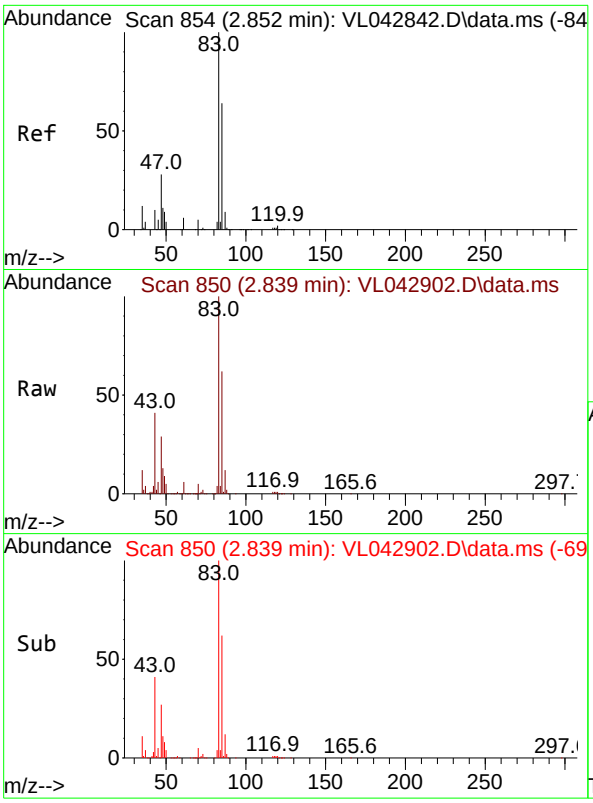


#28
Methyl tert-Butyl Ether
Concen: 9.082 ppbv
RT: 2.431 min Scan# 724
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 73 Resp: 95768

Ion	Ratio	Lower	Upper
73	100		
57	23.2	21.6	32.4





#29
Chloroform
Concen: 10.562 ppbv
RT: 2.839 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

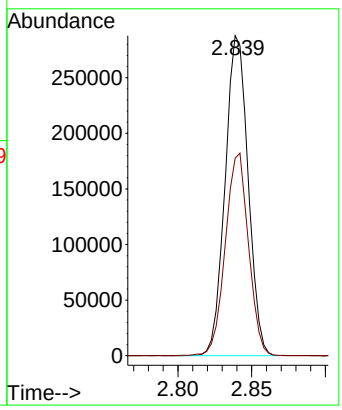
Tgt Ion: 83 Resp: 31185

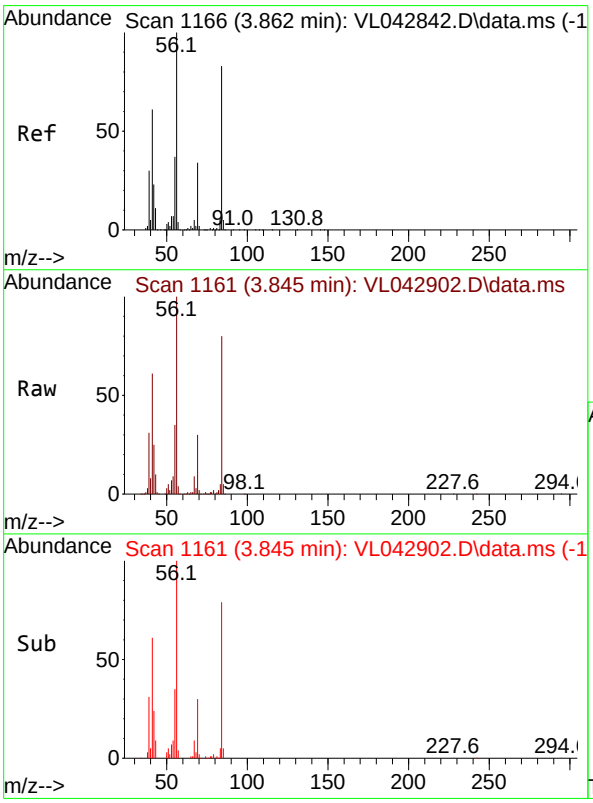
Ion	Ratio	Lower	Upper
83	100		
85	61.7	51.1	76.7

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

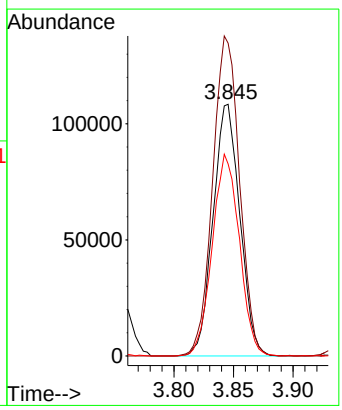


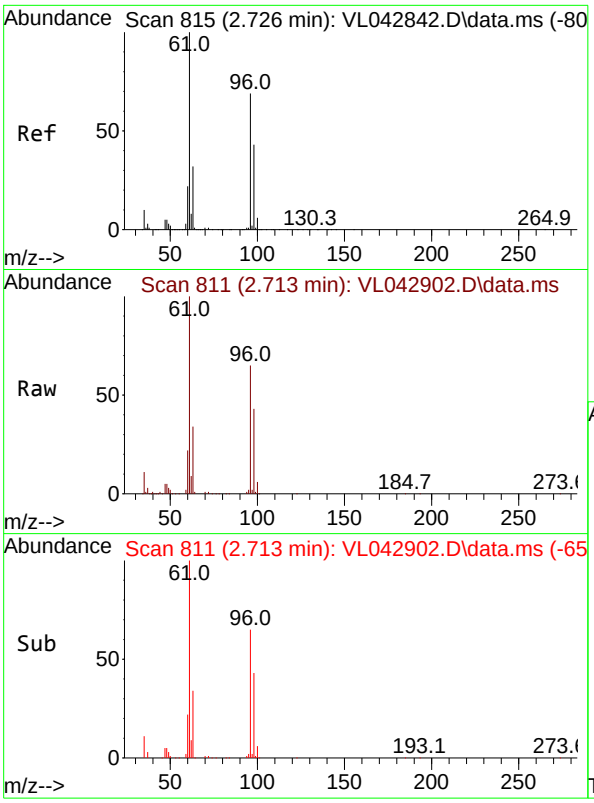


#30
Cyclohexane
Concen: 9.340 ppbv
RT: 3.845 min Scan# 1161
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 84 Resp: 169353

Ion	Ratio	Lower	Upper
84	100		
56	127.6	98.8	148.2
41	81.1	61.3	91.9

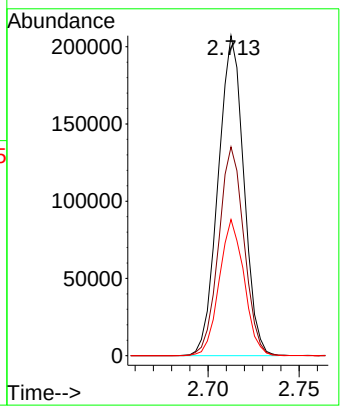




#31
cis-1,2-Dichloroethene
Concen: 9.796 ppbv
RT: 2.713 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 61 Resp: 20234

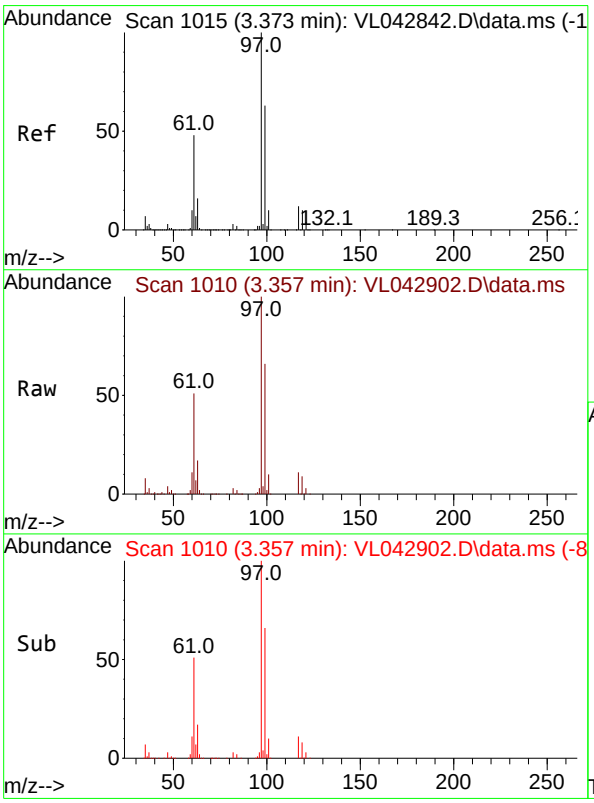
Ion	Ratio	Lower	Upper
61	100		
96	65.2	55.0	82.6
98	42.5	34.3	51.5



Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Manual Integrations
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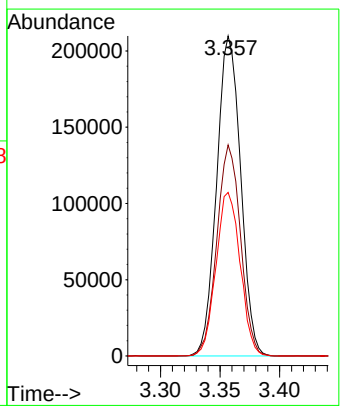
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

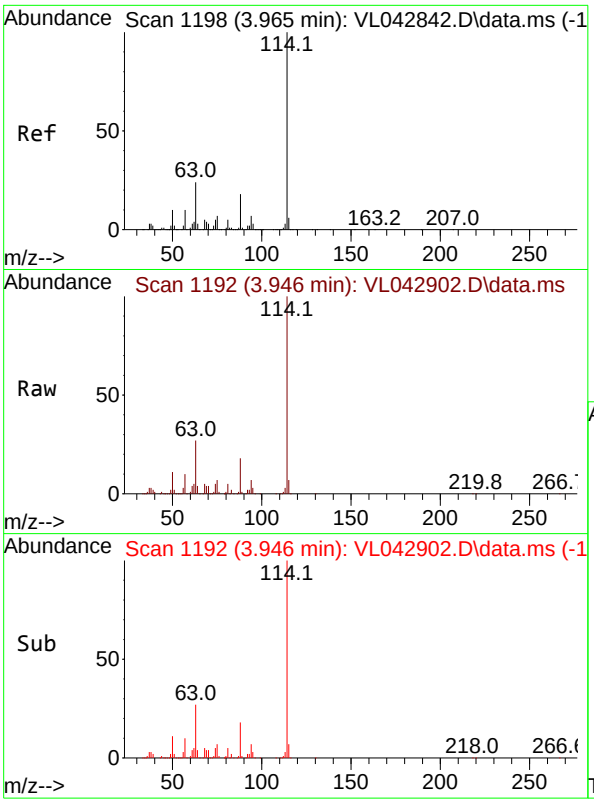


#32
1,1,1-Trichloroethane
Concen: 9.409 ppbv
RT: 3.357 min Scan# 1010
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 97 Resp: 293618

Ion	Ratio	Lower	Upper
97	100		
99	65.0	51.0	76.6
61	51.7	38.0	57.0

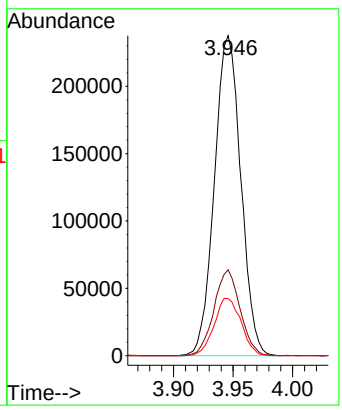




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.946 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion:114 Resp: 36585

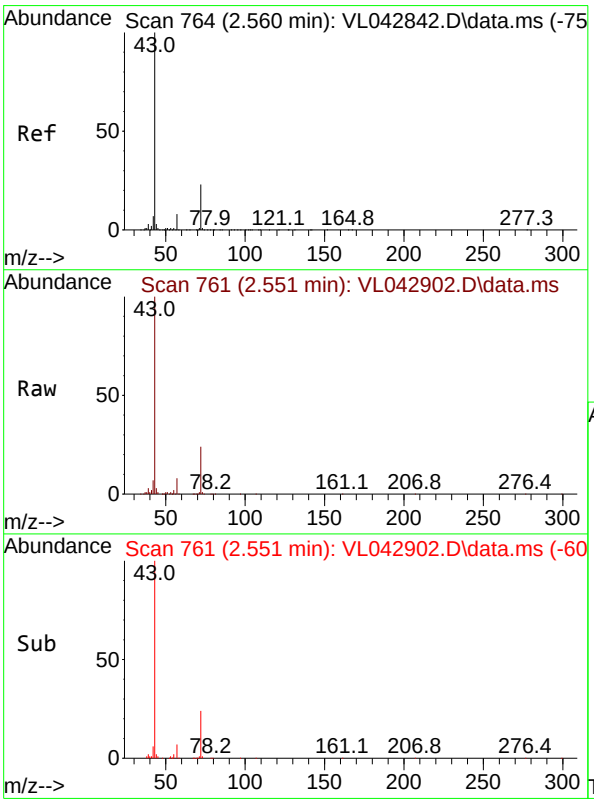
Ion	Ratio	Lower	Upper
114	100		
63	26.5	19.7	29.5
88	18.3	14.4	21.6



Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Manual Integrations
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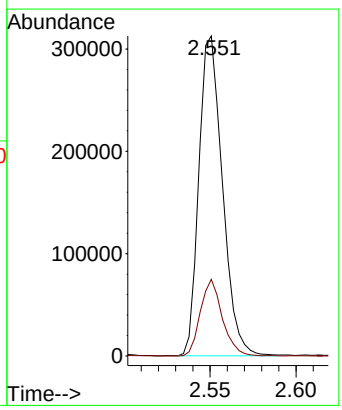
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

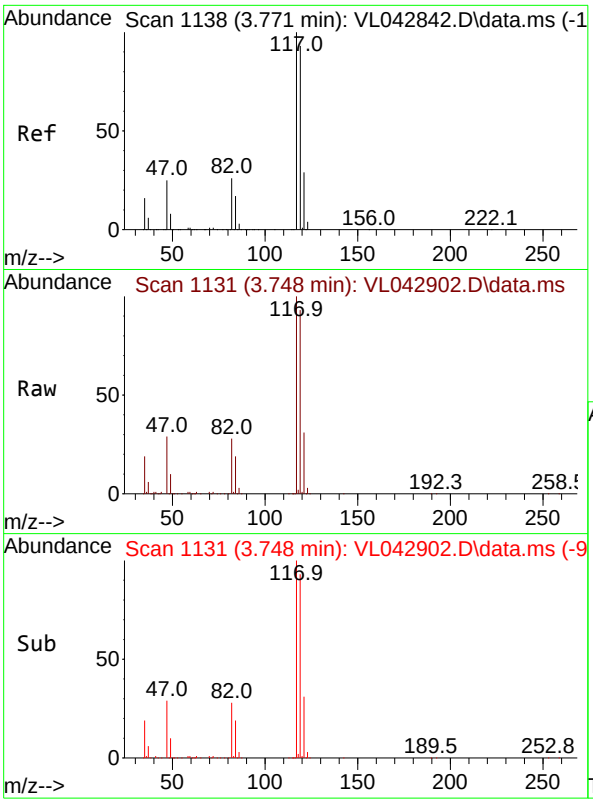


#34
2-Butanone
Concen: 12.066 ppbv
RT: 2.551 min Scan# 761
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 43 Resp: 298071

Ion	Ratio	Lower	Upper
43	100		
72	22.3	18.6	28.0





#35
Carbon Tetrachloride
Concen: 11.779 ppbv
RT: 3.748 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

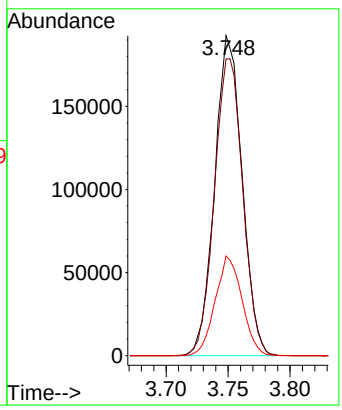
Tgt Ion:117 Resp: 29708

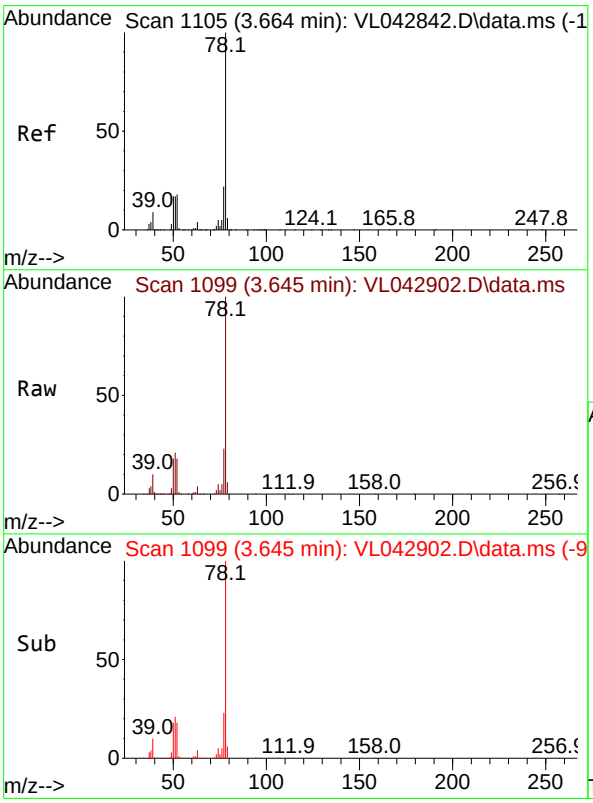
Ion	Ratio	Lower	Upper
117	100		
119	92.6	74.7	112.1
121	31.2	23.2	34.8

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

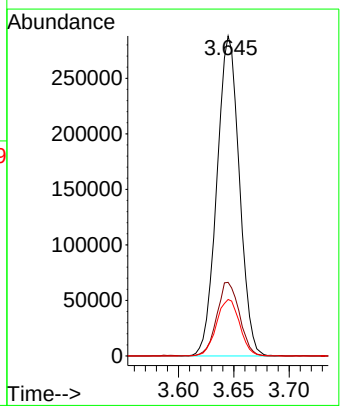


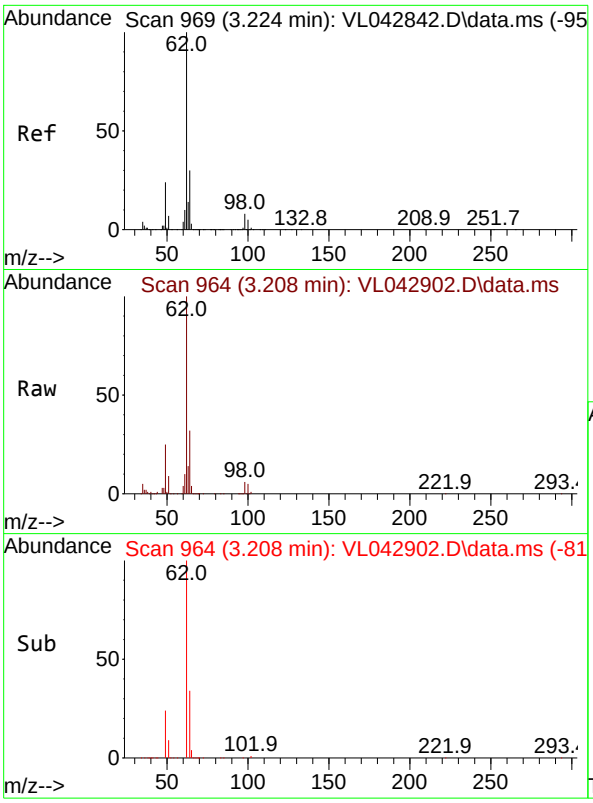


#36
Benzene
Concen: 11.625 ppbv
RT: 3.645 min Scan# 1099
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 78 Resp: 407263

Ion	Ratio	Lower	Upper
78	100		
77	23.0	17.7	26.5
50	17.7	13.9	20.9

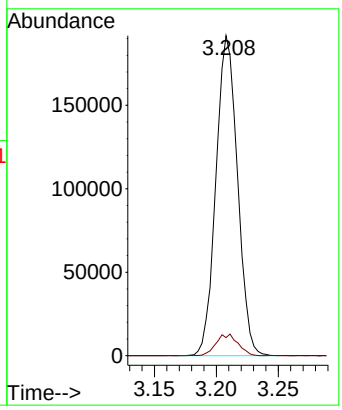




#37
1,2-Dichloroethane
Concen: 12.720 ppbv
RT: 3.208 min Scan# 9
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 62 Resp: 23280

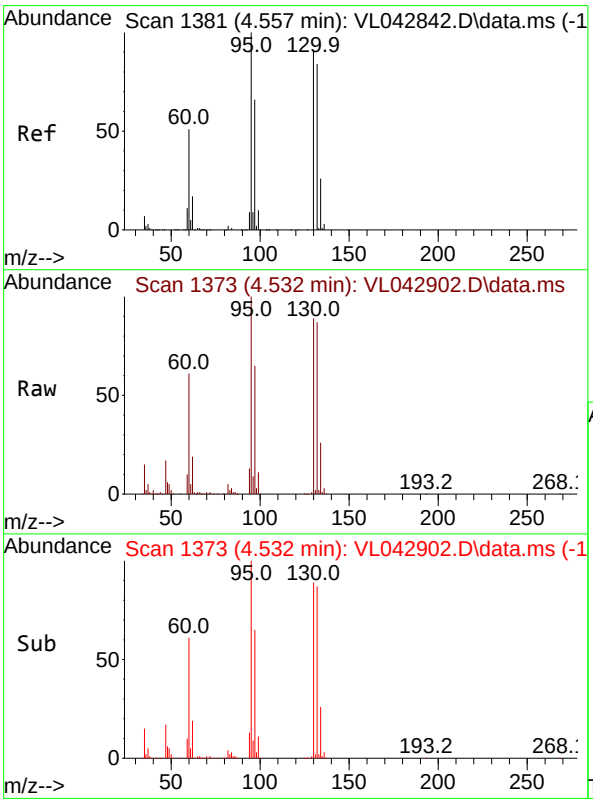
Ion	Ratio	Lower	Upper
62	100		
98	6.9	5.9	8.9



Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Manual Integrations
APPROVED

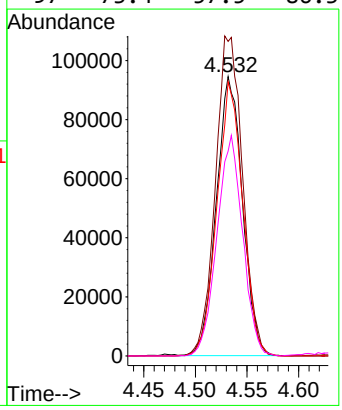
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

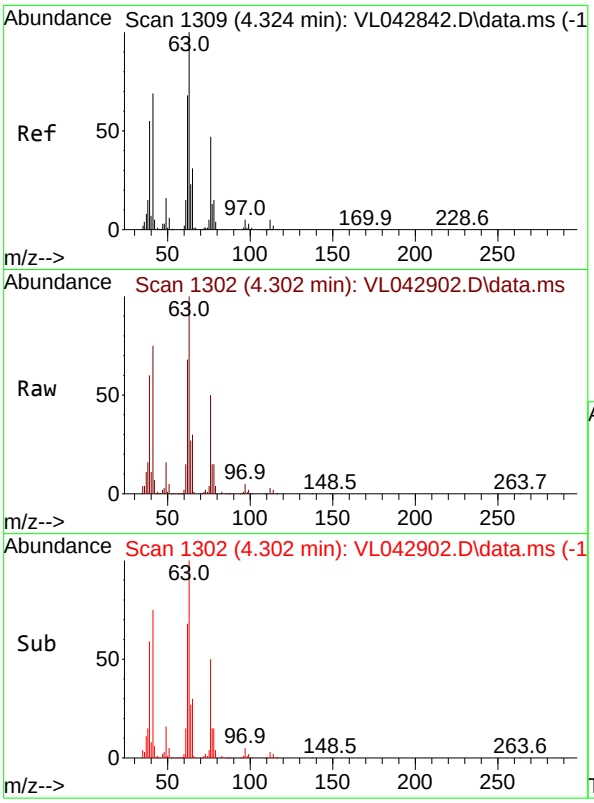


#38
Trichloroethene
Concen: 10.408 ppbv
RT: 4.532 min Scan# 1373
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion:130 Resp: 166529

Ion	Ratio	Lower	Upper
130	100		
95	112.8	87.6	131.4
132	98.3	73.8	110.8
97	73.4	57.5	86.3





#39
1,2-Dichloropropane
Concen: 11.961 ppbv
RT: 4.302 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

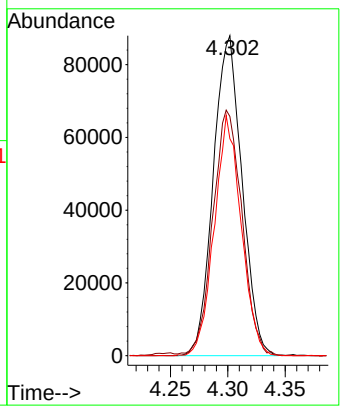
Tgt Ion: 63 Resp: 15304

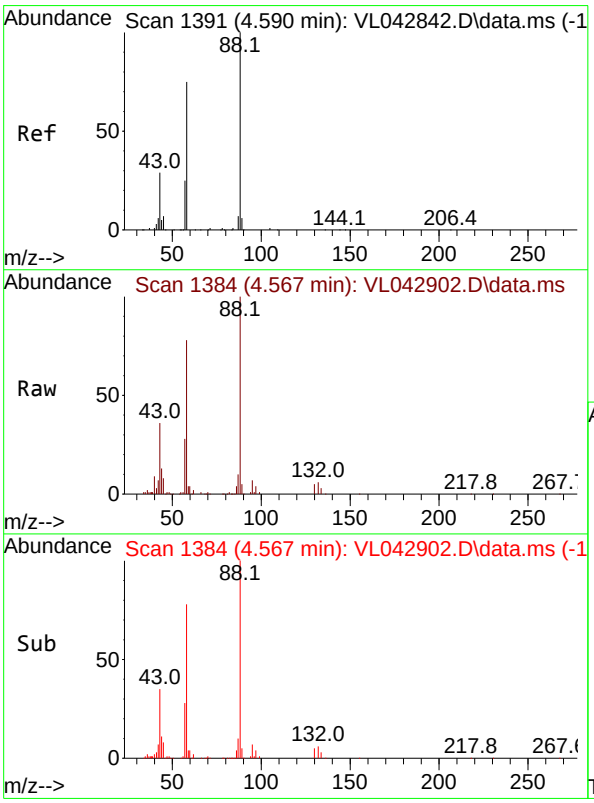
Ion	Ratio	Lower	Upper
63	100		
41	74.6	55.0	82.4
62	67.7	54.4	81.6

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

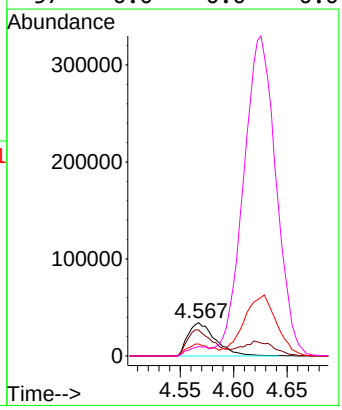


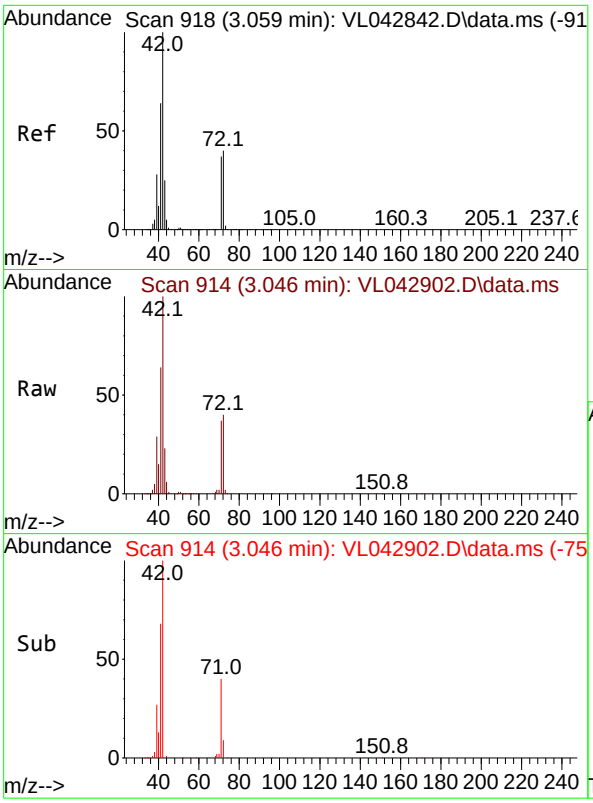


#40
1,4-Dioxane
Concen: 10.138 ppbv
RT: 4.567 min Scan# 1384
Delta R.T. 0.006 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 88 Resp: 61682

Ion	Ratio	Lower	Upper
88	100		
58	75.9	53.8	80.6
43	36.0	22.8	34.2#
57	0.0	0.0	0.0

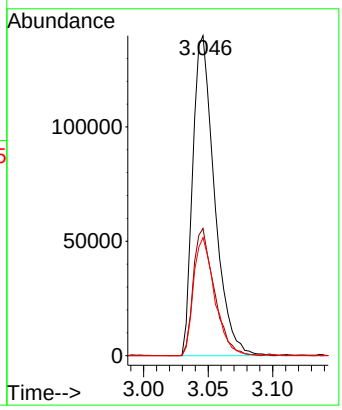




#41
Tetrahydrofuran
Concen: 11.927 ppbv
RT: 3.046 min Scan# 9
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 42 Resp: 16426

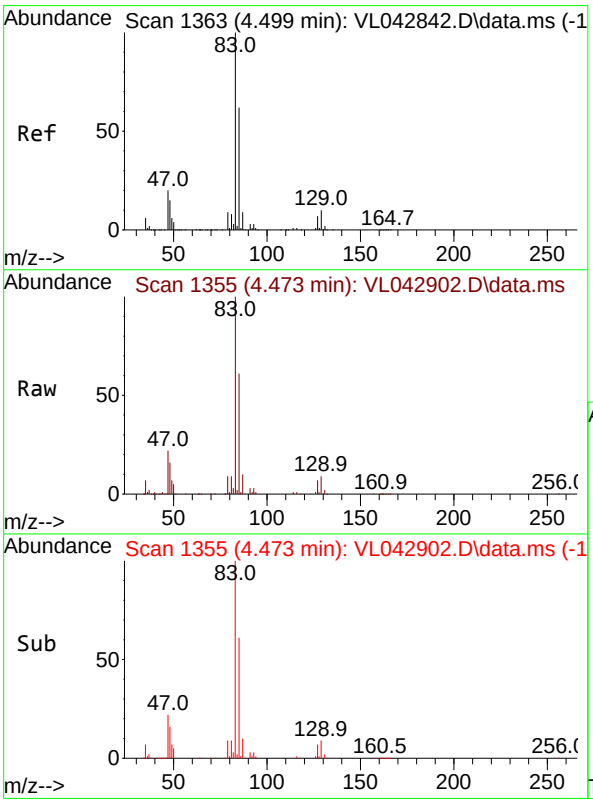
Ion	Ratio	Lower	Upper
42	100		
72	38.6	32.6	48.8
71	36.0	30.0	45.0



Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Manual Integrations
APPROVED

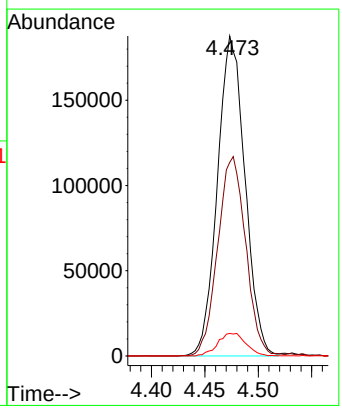
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

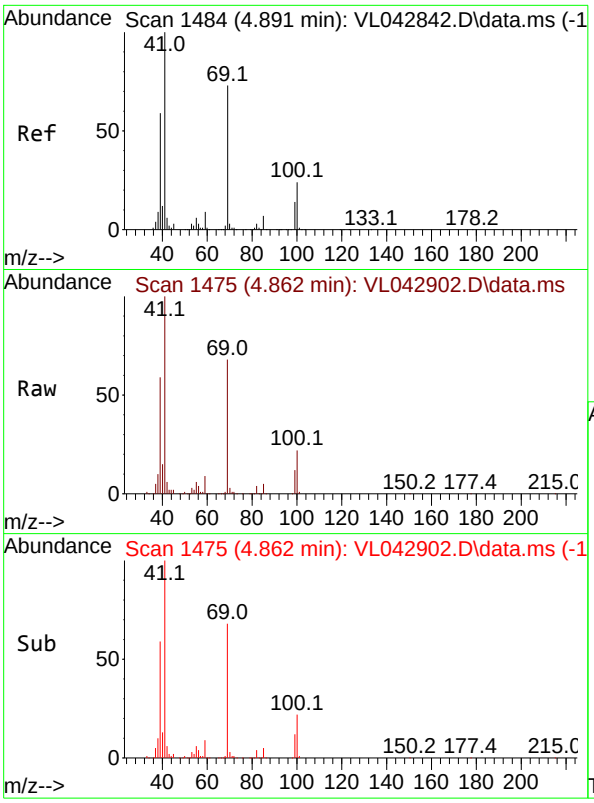


#42
Bromodichloromethane
Concen: 12.351 ppbv
RT: 4.473 min Scan# 1355
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 83 Resp: 336858

Ion	Ratio	Lower	Upper
83	100		
85	60.5	49.8	74.8
127	7.0	5.8	8.6

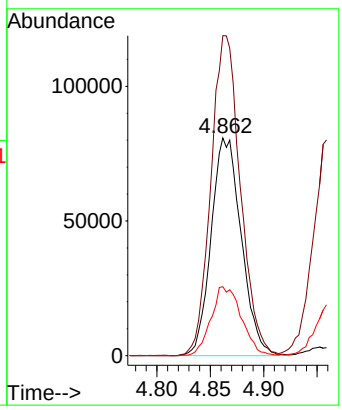




#43
Methyl Methacrylate
Concen: 10.979 ppbv
RT: 4.862 min Scan# 14
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 69 Resp: 15845

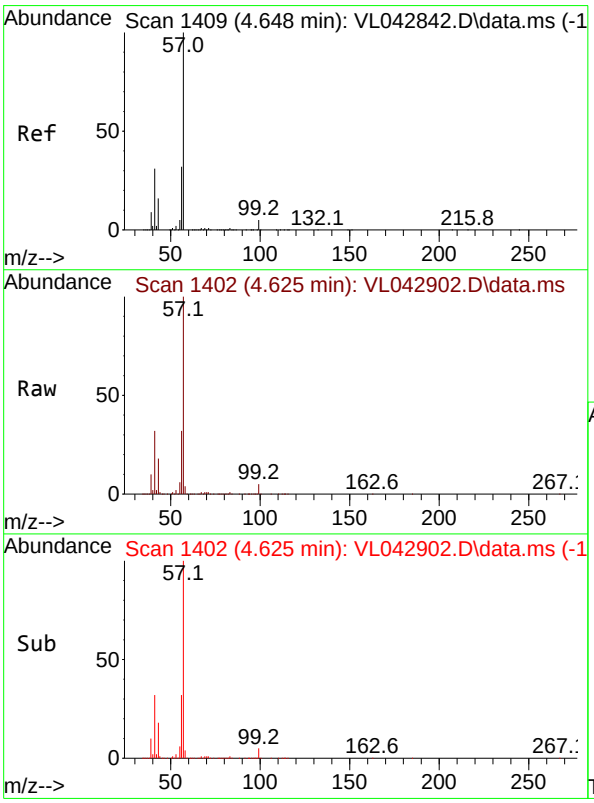
Ion	Ratio	Lower	Upper
69	100		
41	143.9	114.6	172.0
100	32.1	30.2	45.4



Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Manual Integrations
APPROVED

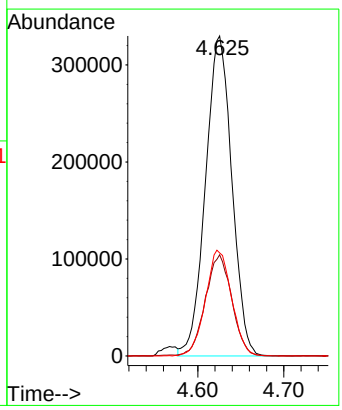
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

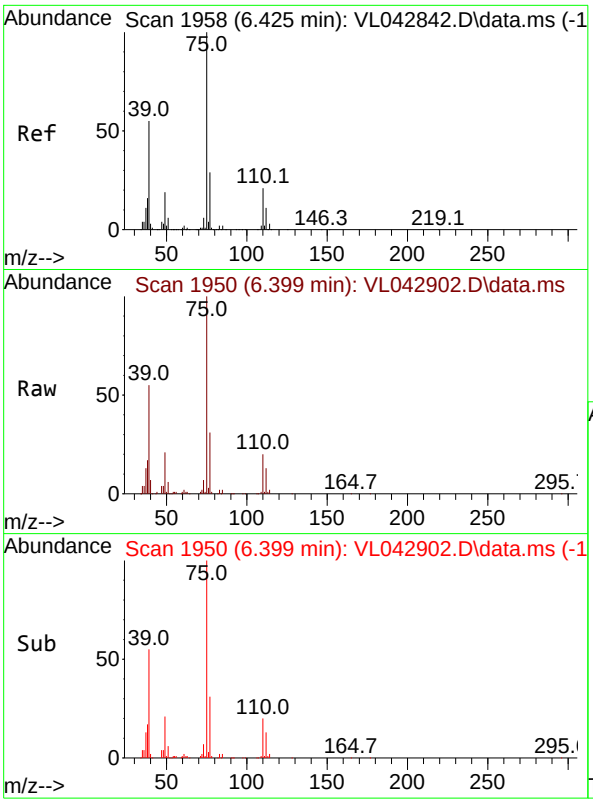


#44
2,2,4-Trimethylpentane
Concen: 11.797 ppbv
RT: 4.625 min Scan# 1402
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 57 Resp: 701486

Ion	Ratio	Lower	Upper
57	100		
41	31.8	24.8	37.2
56	32.7	25.5	38.3

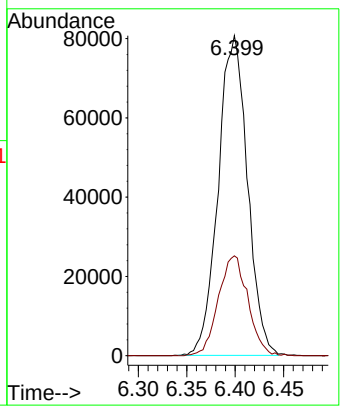




#45
t-1,3-Dichloropropene
Concen: 10.403 ppbv
RT: 6.399 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 75 Resp: 16943

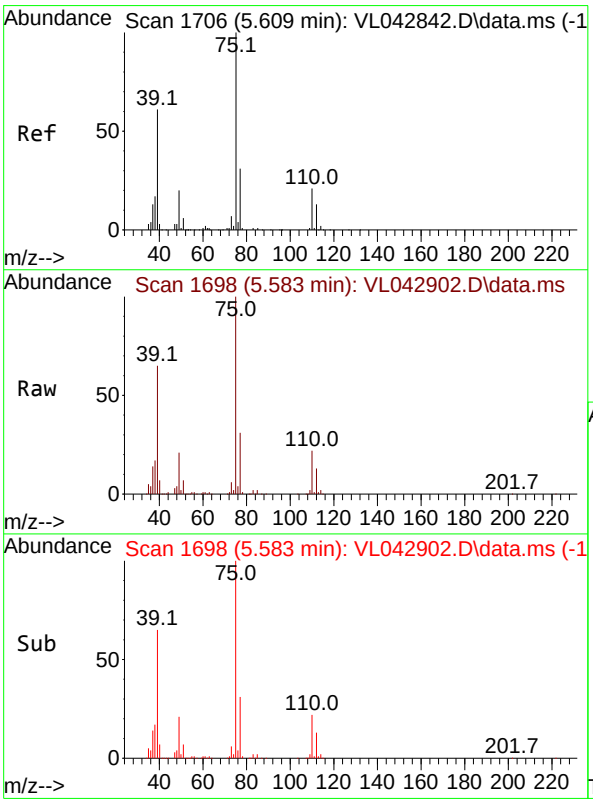
Ion	Ratio	Lower	Upper
75	100		
77	31.2	23.8	35.6



Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Manual Integrations
APPROVED

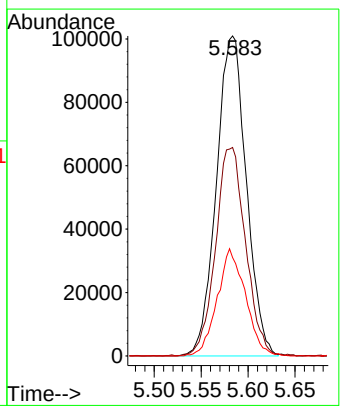
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

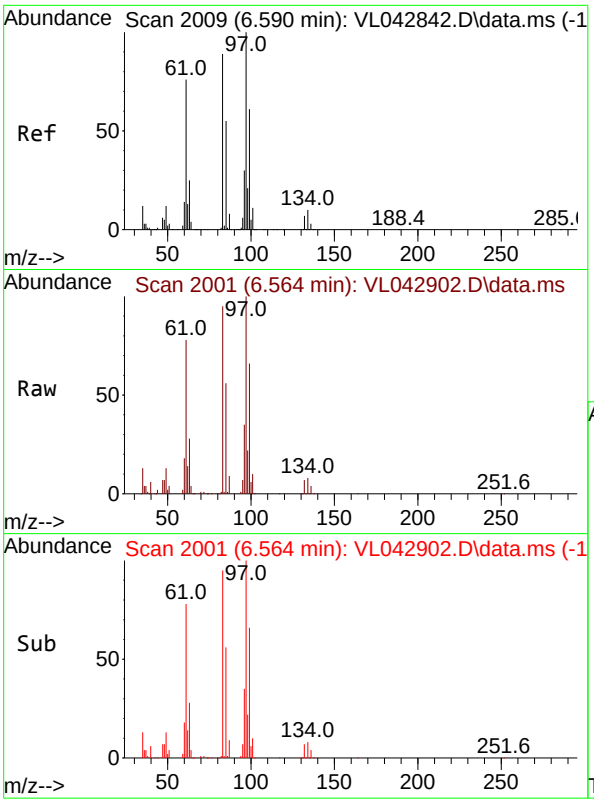


#46
cis-1,3-Dichloropropene
Concen: 11.031 ppbv
RT: 5.583 min Scan# 1698
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 75 Resp: 223871

Ion	Ratio	Lower	Upper
75	100		
39	65.0	48.9	73.3
77	30.8	24.9	37.3

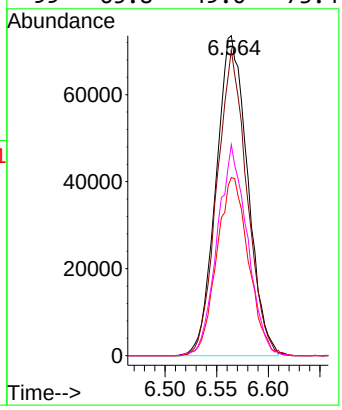




#47
1,1,2-Trichloroethane
Concen: 11.541 ppbv
RT: 6.564 min Scan# 2(
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 97 Resp: 15646(

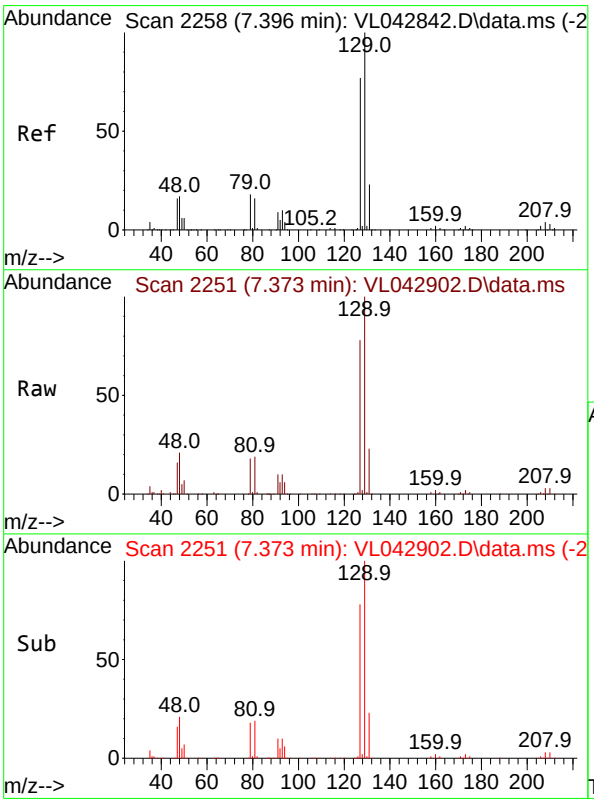
Ion	Ratio	Lower	Upper
97	100		
83	95.5	71.0	106.4
85	55.6	43.6	65.4
99	65.8	49.0	73.4



Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Manual Integrations
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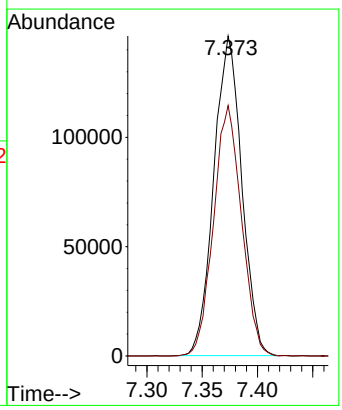
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

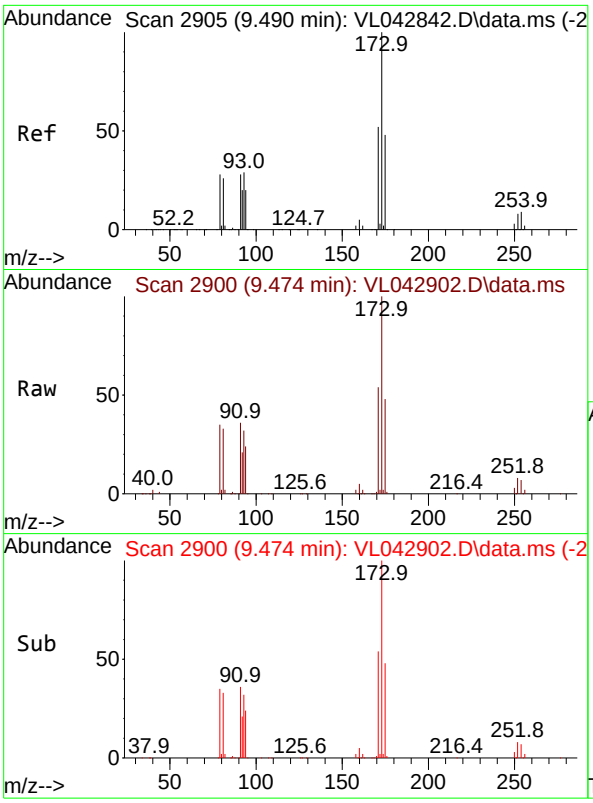


#48
Dibromochloromethane
Concen: 11.712 ppbv
RT: 7.373 min Scan# 2251
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion:129 Resp: 256923

Ion	Ratio	Lower	Upper
129	100		
127	78.3	39.4	118.2

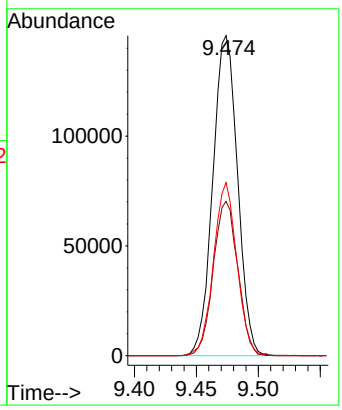




#49
Bromoform
Concen: 11.222 ppbv
RT: 9.474 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion:173 Resp: 20301

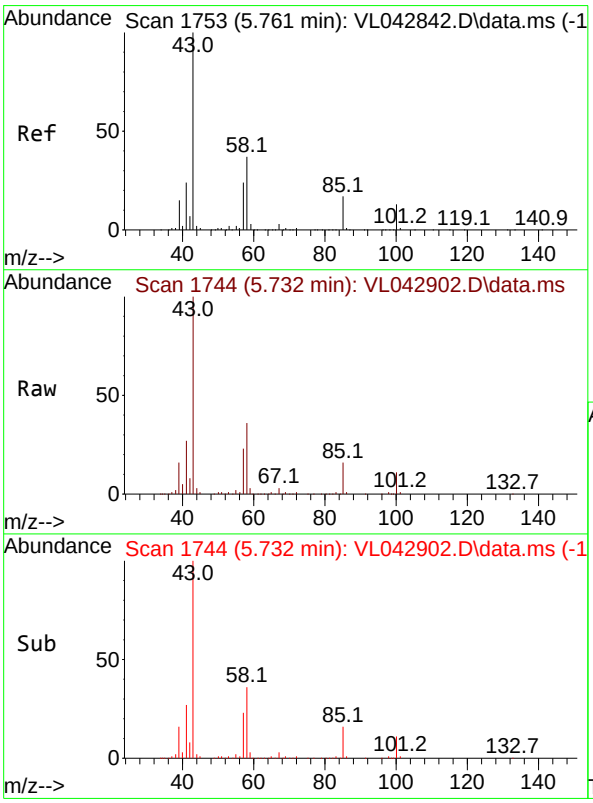
Ion	Ratio	Lower	Upper
173	100		
175	47.9	39.2	58.8
171	51.1	41.3	61.9



Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Manual Integrations
APPROVED

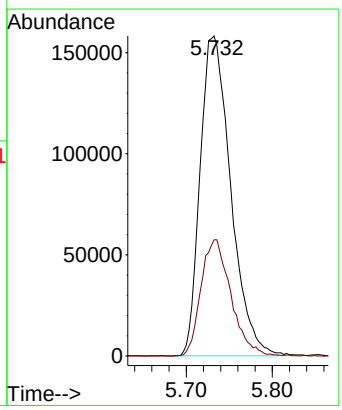
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

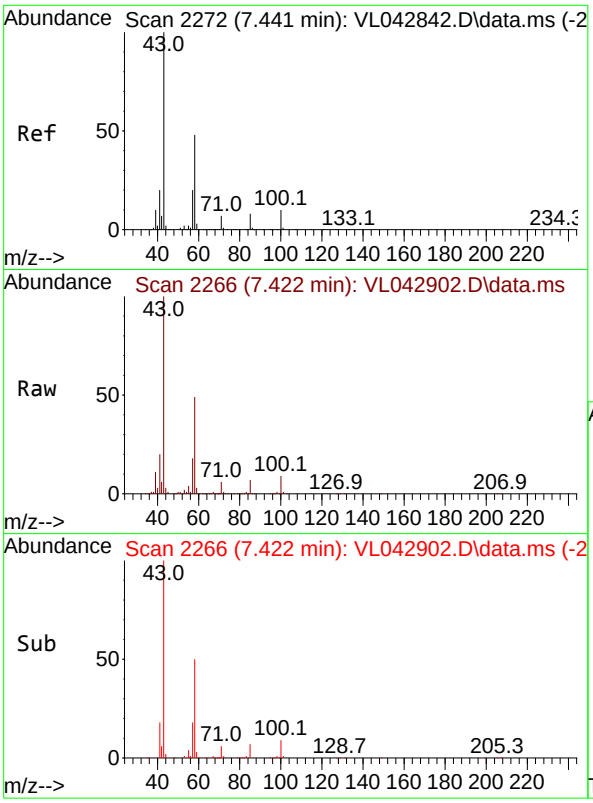


#50
4-Methyl-2-Pentanone
Concen: 11.688 ppbv
RT: 5.732 min Scan# 1744
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 43 Resp: 390291

Ion	Ratio	Lower	Upper
43	100		
58	35.7	29.8	44.8





#51
2-Hexanone
Concen: 11.858 ppbv
RT: 7.422 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

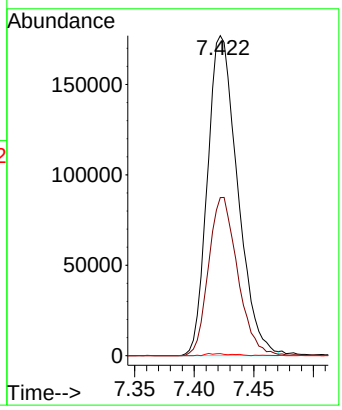
Tgt Ion: 43 Resp: 31158

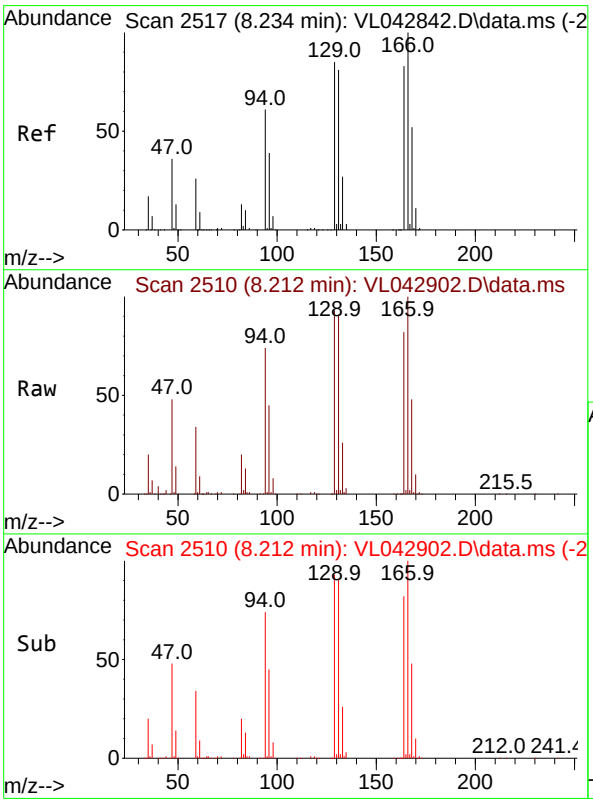
Ion	Ratio	Lower	Upper
43	100		
58	47.8	41.0	61.6
98	0.6	0.1	0.1

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

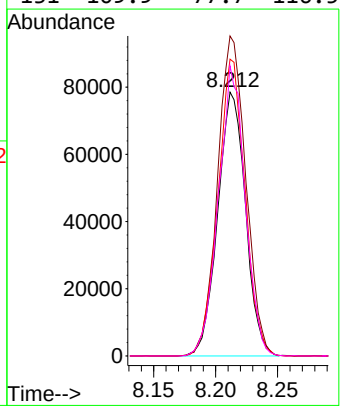


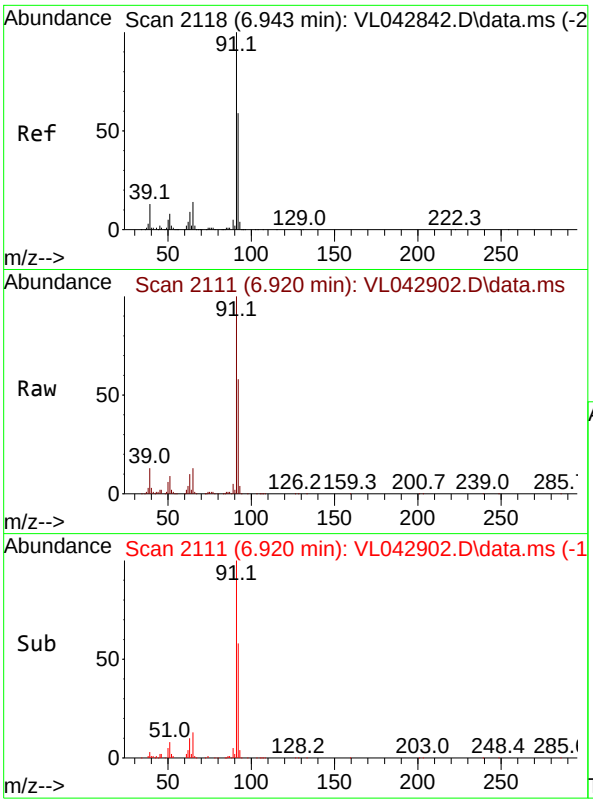


#52
Tetrachloroethene
Concen: 9.644 ppbv
RT: 8.212 min Scan# 2510
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion:164 Resp: 122229

Ion	Ratio	Lower	Upper
164	100		
166	121.3	96.5	144.7
129	112.5	81.8	122.6
131	109.9	77.7	116.5





#53
Toluene
Concen: 10.752 ppbv
RT: 6.920 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

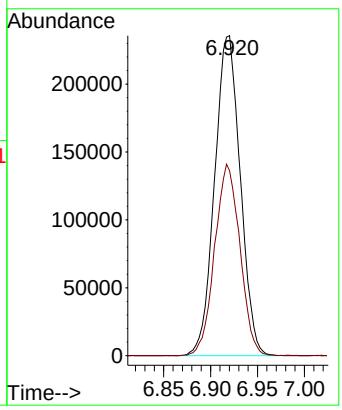
Tgt Ion: 91 Resp: 44784

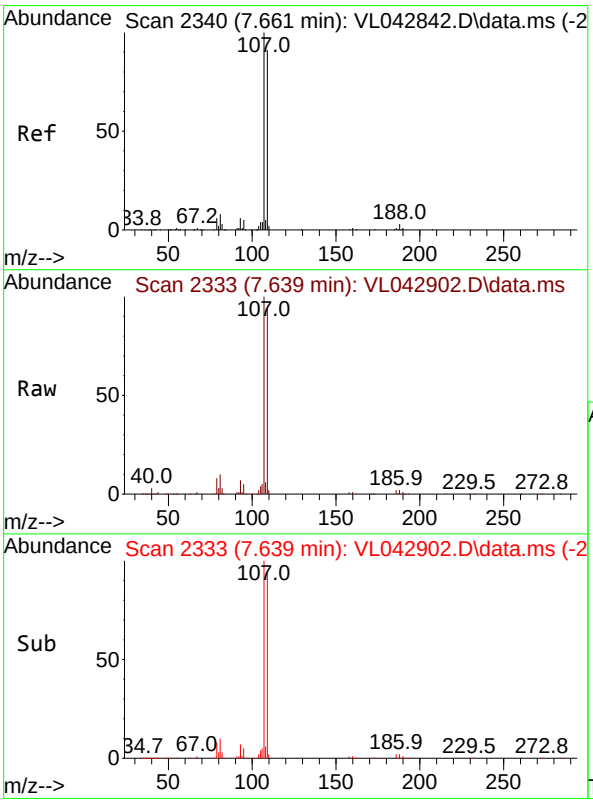
Ion	Ratio	Lower	Upper
91	100		
92	58.9	47.8	71.6

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

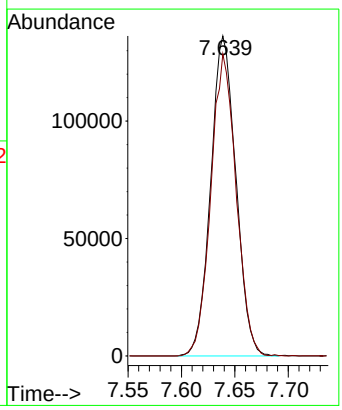


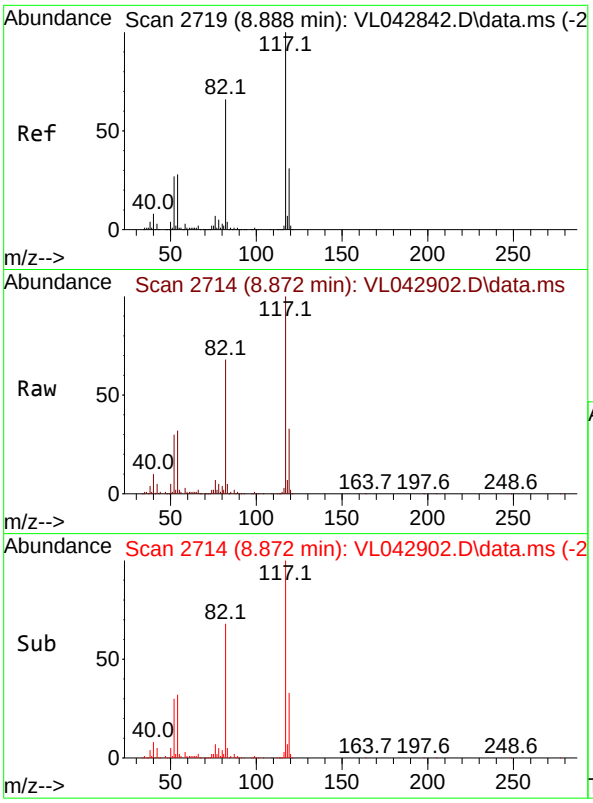


#54
1,2-Dibromoethane
Concen: 11.277 ppbv
RT: 7.639 min Scan# 2333
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion:107 Resp: 223417

Ion	Ratio	Lower	Upper
107	100		
109	94.3	72.5	108.7

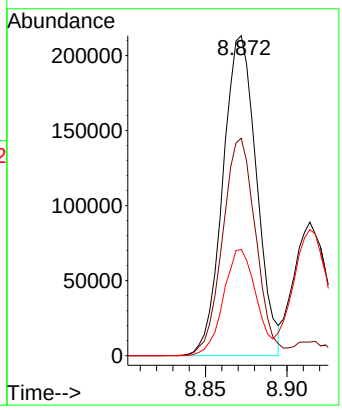




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion:117 Resp: 30638

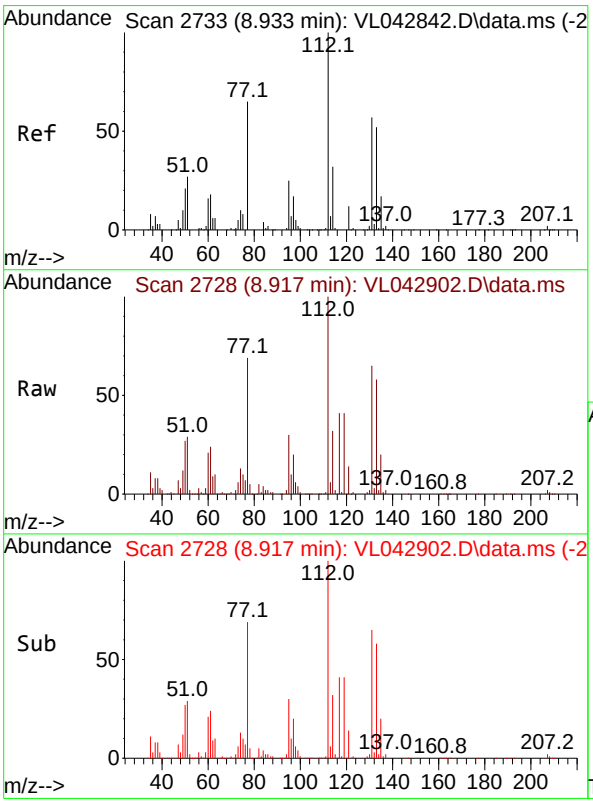
Ion	Ratio	Lower	Upper
117	100		
82	71.5	54.6	81.8
119	32.3	25.9	38.9



Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Manual Integrations
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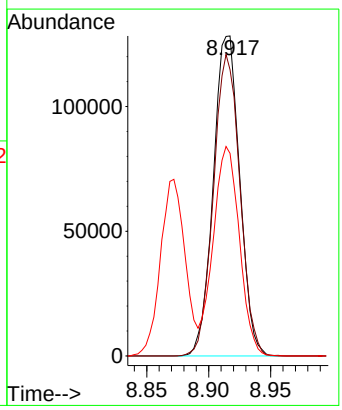
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

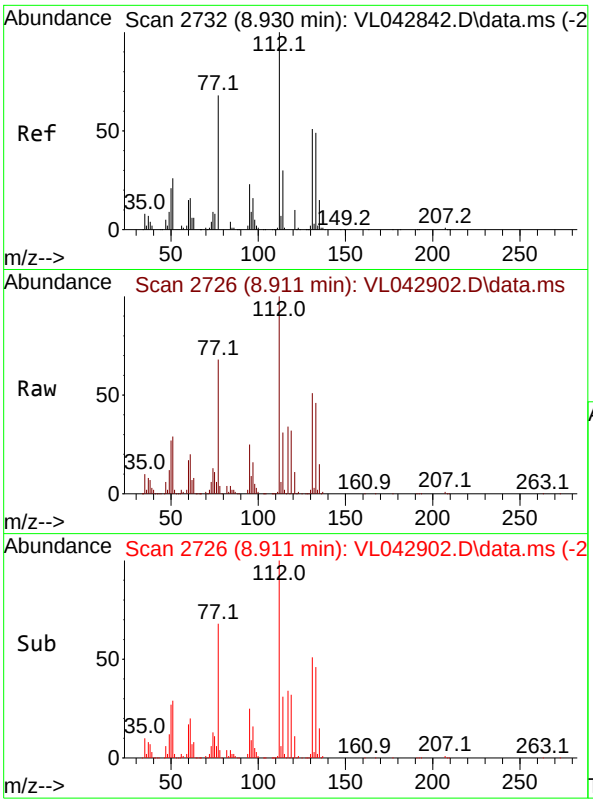


#56
1,1,1,2-Tetrachloroethane
Concen: 12.050 ppbv
RT: 8.917 min Scan# 2728
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion:131 Resp: 190922

Ion	Ratio	Lower	Upper
131	100		
133	94.5	77.4	116.0
119	64.9	51.2	76.8

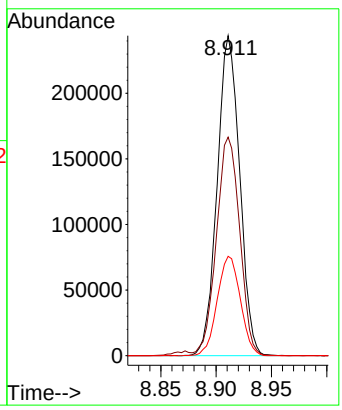




#57
Chlorobenzene
Concen: 11.855 ppbv
RT: 8.911 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion:112 Resp: 34534

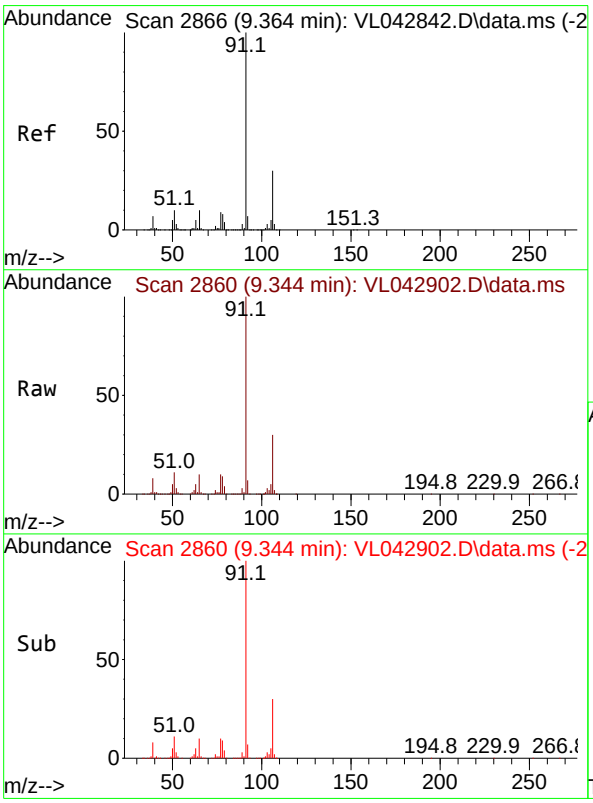
Ion	Ratio	Lower	Upper
112	100		
77	68.3	55.5	83.3
114	31.0	27.2	33.2



Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Manual Integrations
APPROVED

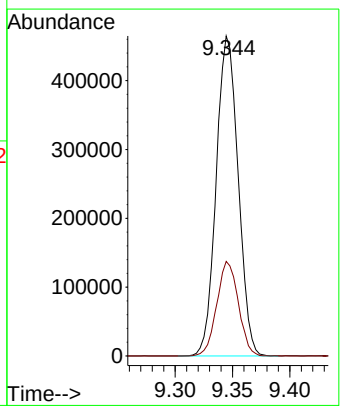
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

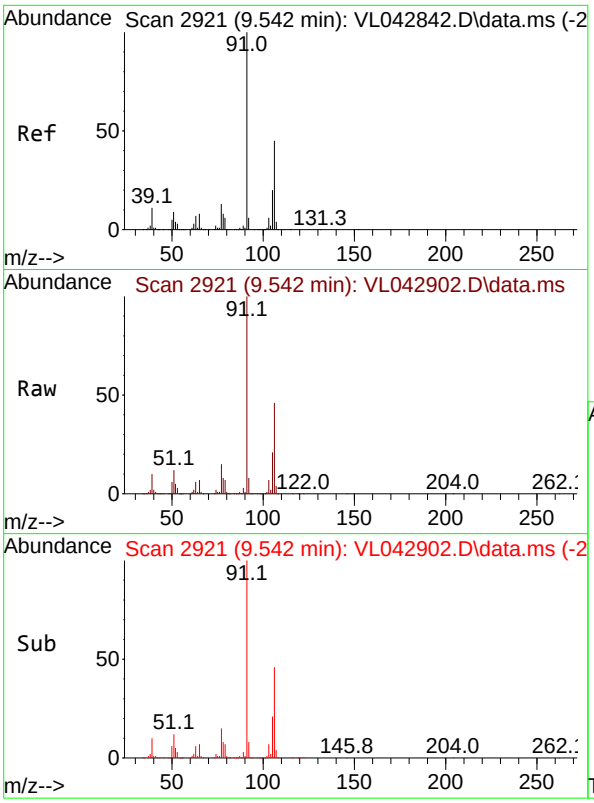


#58
Ethyl Benzene
Concen: 11.442 ppbv
RT: 9.344 min Scan# 2860
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 91 Resp: 618650

Ion	Ratio	Lower	Upper
91	100		
106	29.6	23.9	35.9





#59
m/p-Xylene
Concen: 23.968 ppbv m
RT: 9.542 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

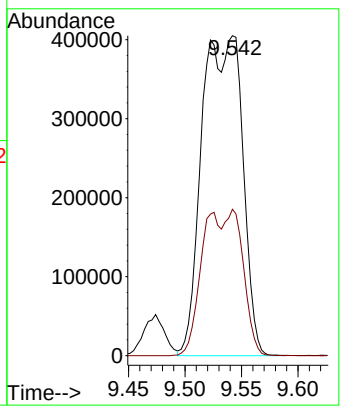
Tgt Ion: 91 Resp: 101573

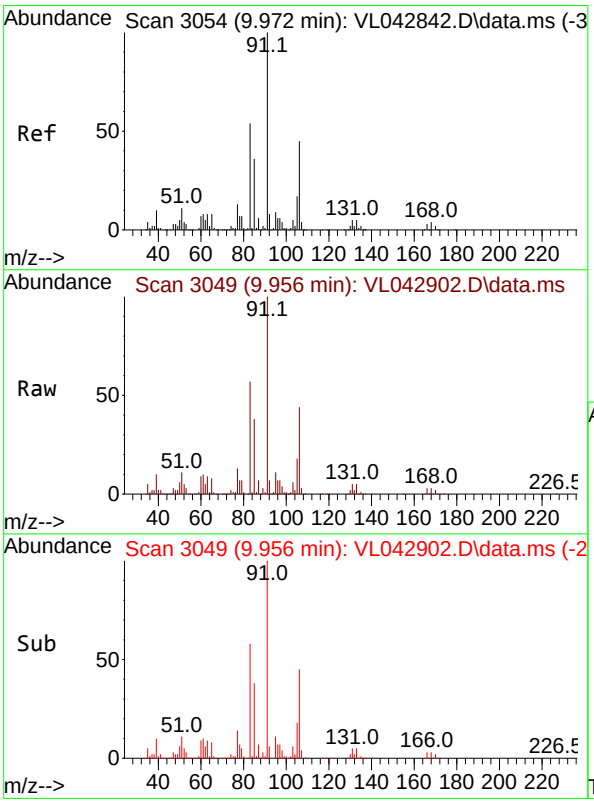
Ion	Ratio	Lower	Upper
91	100		
106	45.2	0.0	0.0

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

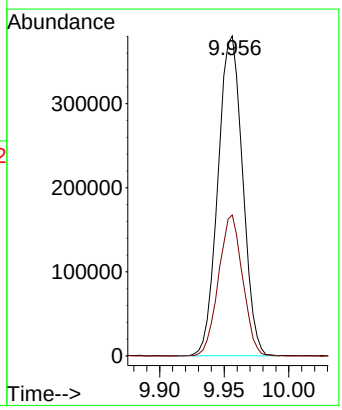


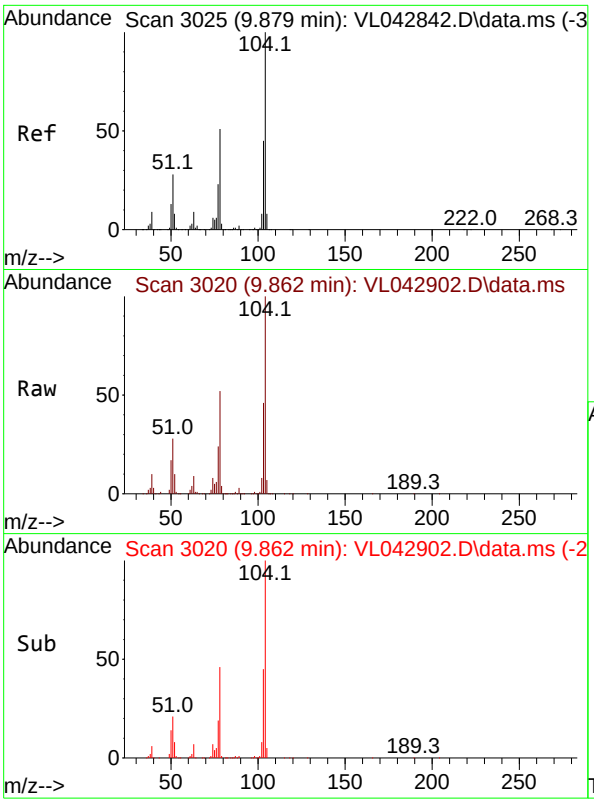


#60
o-Xylene
Concen: 11.844 ppbv
RT: 9.956 min Scan# 3049
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 91 Resp: 504922

Ion	Ratio	Lower	Upper
91	100		
106	43.0	21.8	65.4

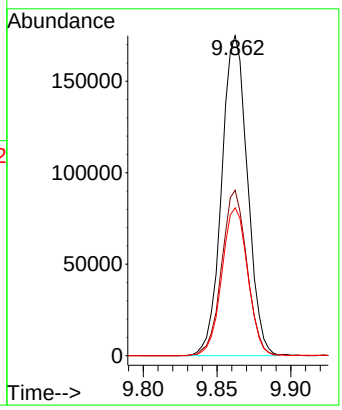




#61
Styrene
Concen: 10.644 ppbv
RT: 9.862 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion:104 Resp: 21259

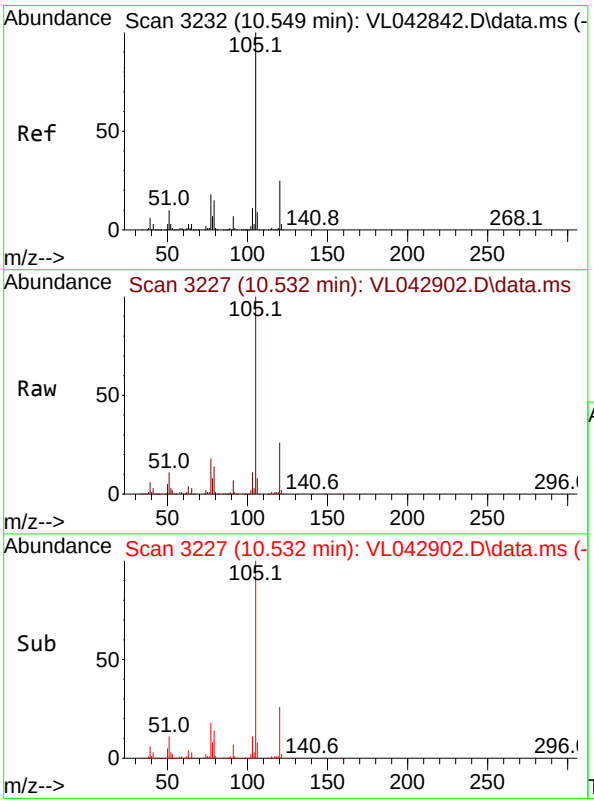
Ion	Ratio	Lower	Upper
104	100		
78	50.7	40.6	61.0
103	46.6	37.7	56.5



Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Manual Integrations
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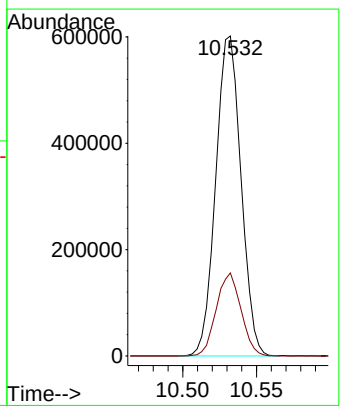
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

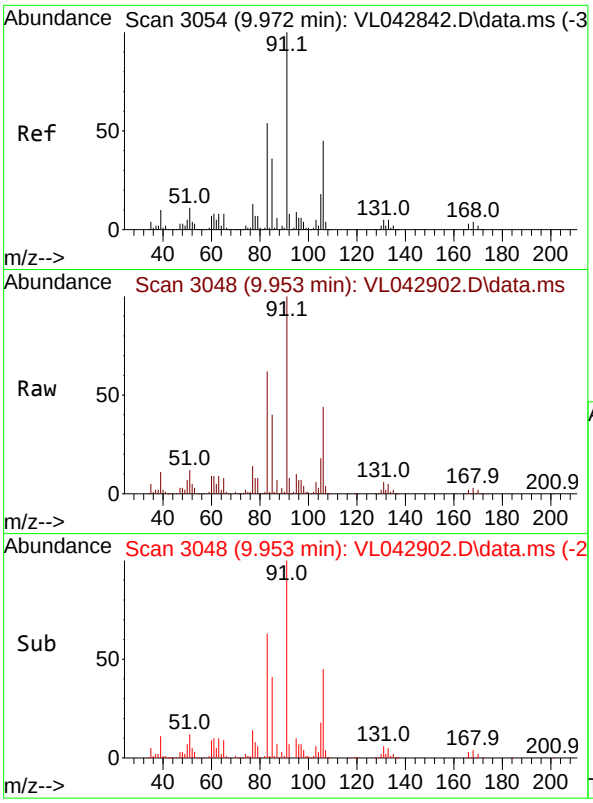


#62
Isopropylbenzene
Concen: 11.521 ppbv
RT: 10.532 min Scan# 3227
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion:105 Resp: 717761

Ion	Ratio	Lower	Upper
105	100		
120	25.3	20.6	30.8

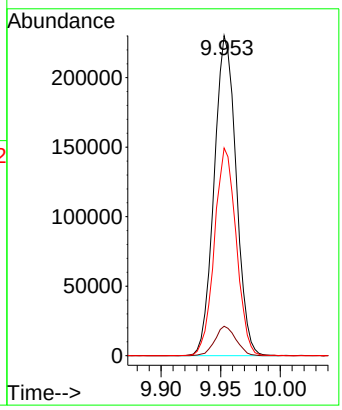




#63
1,1,2,2-Tetrachloroethane
Concen: 12.588 ppbv
RT: 9.953 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 83 Resp: 29511

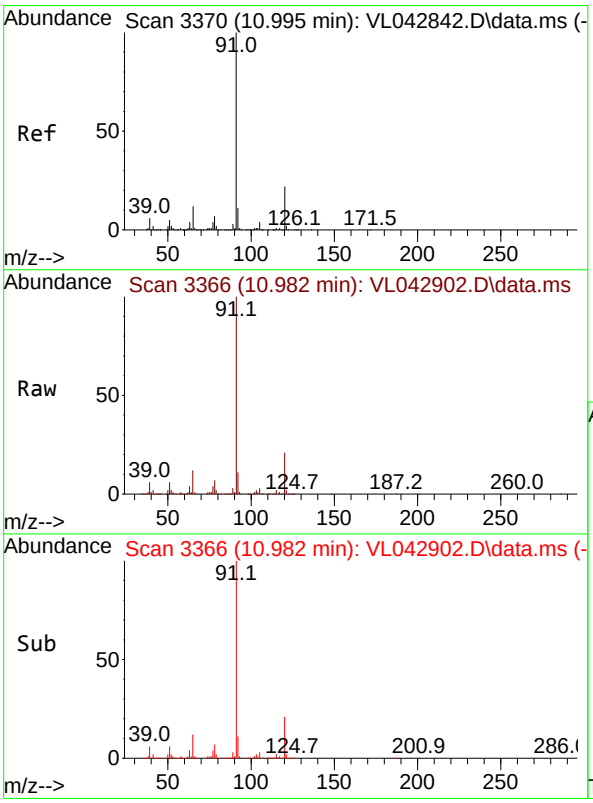
Ion	Ratio	Lower	Upper
83	100		
131	8.8	4.8	14.3
85	64.3	32.3	96.8



Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Manual Integrations
APPROVED

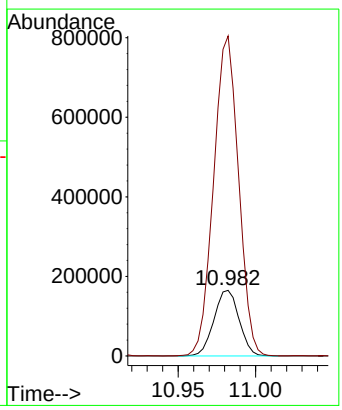
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

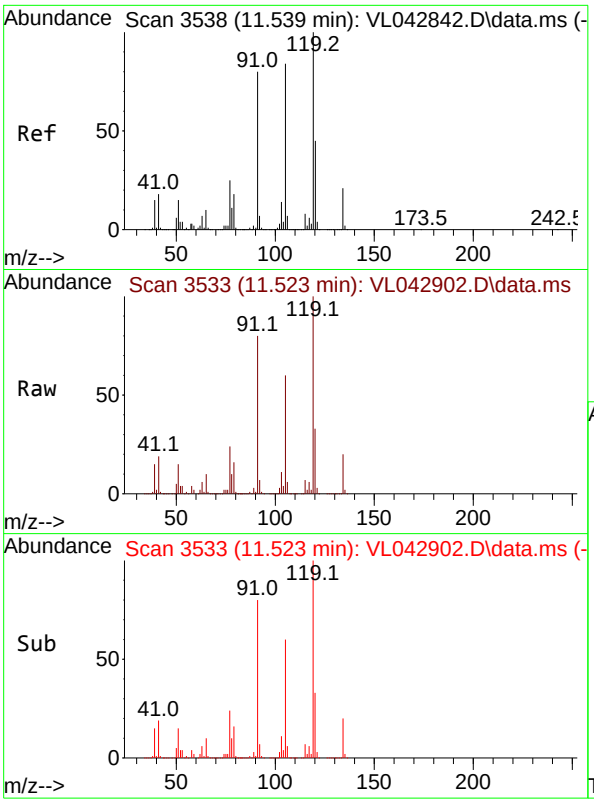


#64
n-propylbenzene
Concen: 11.717 ppbv
RT: 10.982 min Scan# 3366
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion:120 Resp: 186258

Ion	Ratio	Lower	Upper
120	100		
91	484.6	375.8	563.6

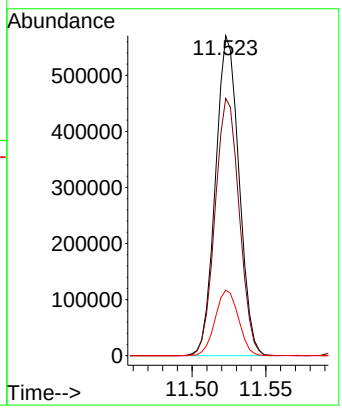




#65
tert-Butylbenzene
Concen: 11.541 ppbv
RT: 11.523 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion:119 Resp: 63384

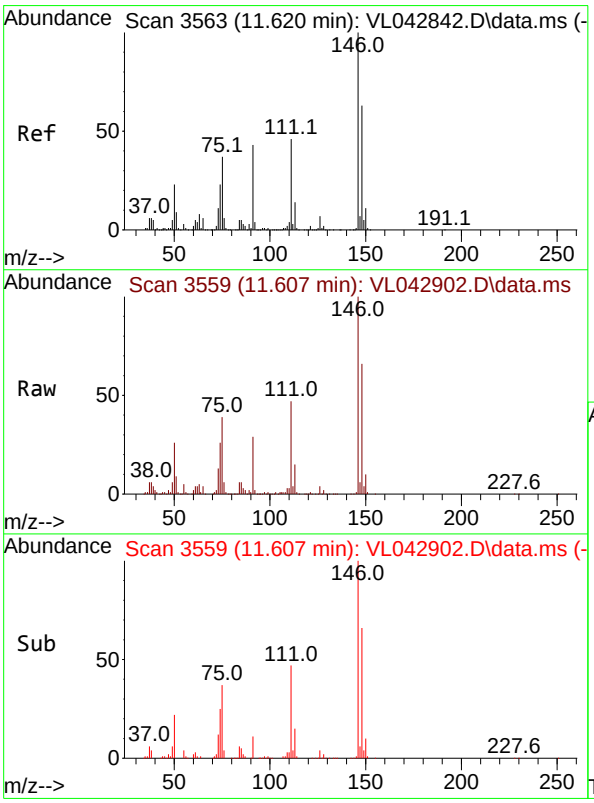
Ion	Ratio	Lower	Upper
119	100		
91	82.5	63.9	95.9
134	20.3	17.0	25.4



Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Manual Integrations
APPROVED

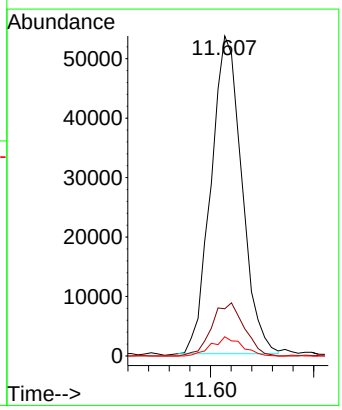
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

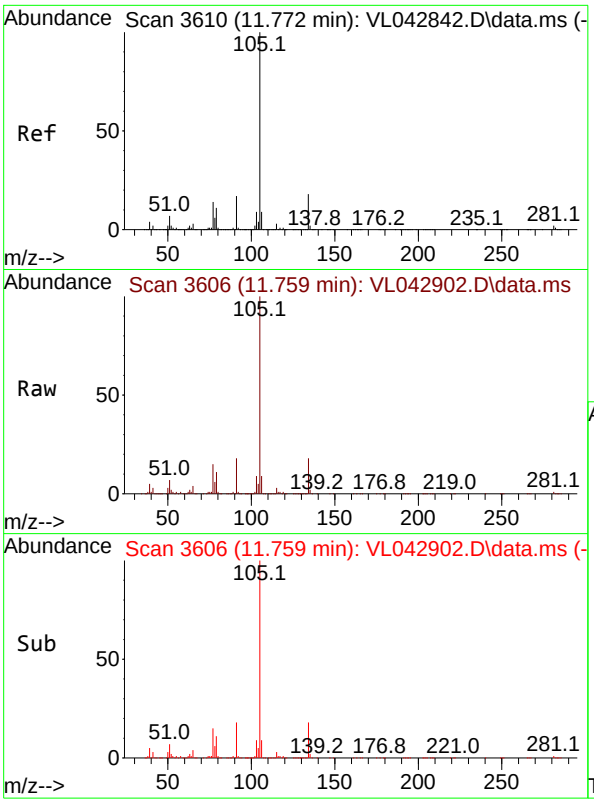


#66
Benzyl Chloride
Concen: 7.954 ppbv
RT: 11.607 min Scan# 3559
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 91 Resp: 55458

Ion	Ratio	Lower	Upper
91	100		
126	17.6	14.2	21.4
128	5.9	5.0	7.6

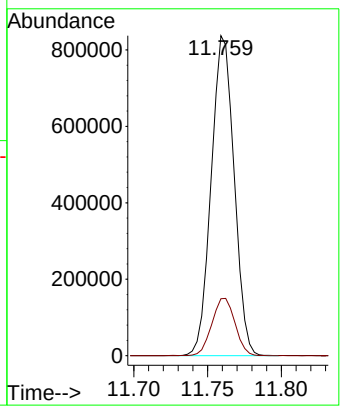




#67
sec-Butylbenzene
Concen: 11.739 ppbv
RT: 11.759 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion:105 Resp: 90497

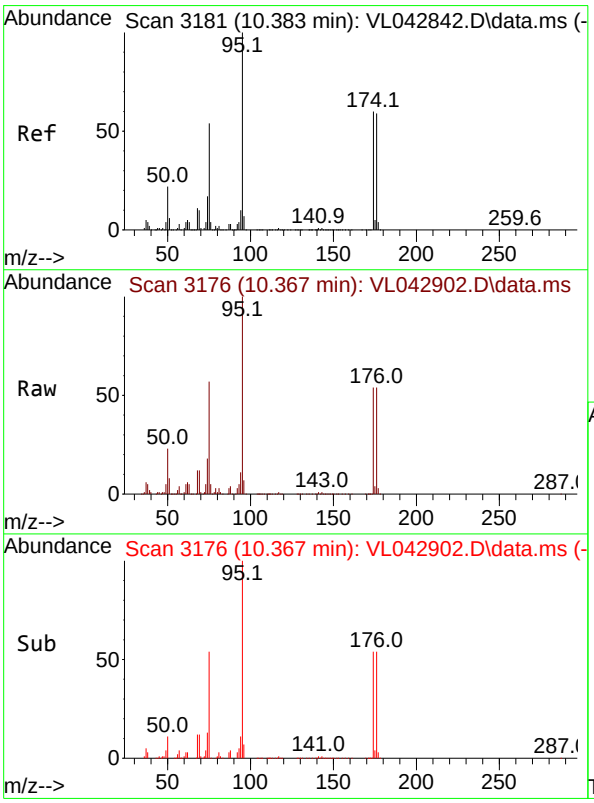
Ion	Ratio	Lower	Upper
105	100		
134	18.2	14.9	22.3



Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Manual Integrations
APPROVED

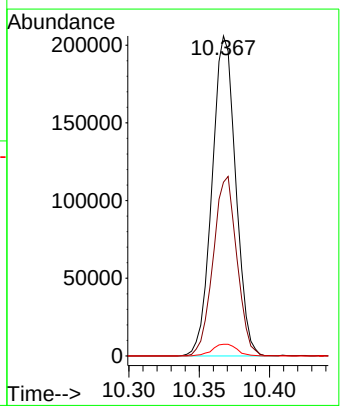
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

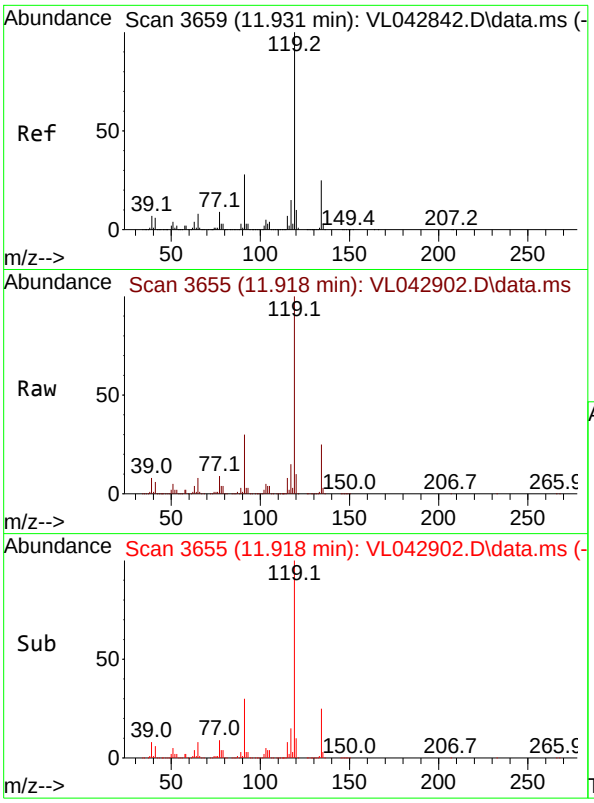


#68
1-Bromo-4-Fluorobenzene
Concen: 10.481 ppbv
RT: 10.367 min Scan# 3176
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 95 Resp: 240840

Ion	Ratio	Lower	Upper
95	100		
174	56.6	48.4	72.6
175	3.8	3.8	5.8

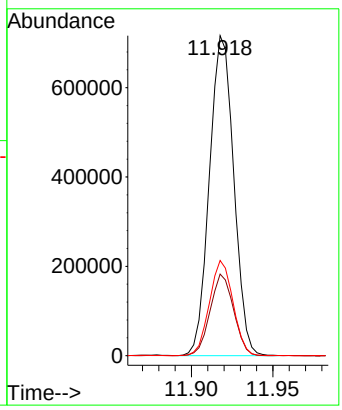




#69
p-Isopropyltoluene
Concen: 11.229 ppbv
RT: 11.918 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion:119 Resp: 74321

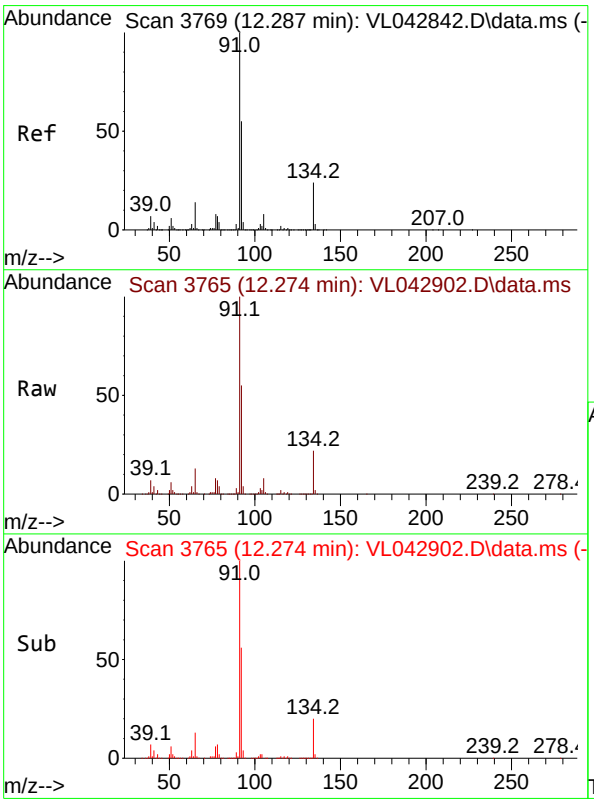
Ion	Ratio	Lower	Upper
119	100		
134	24.6	20.6	30.8
91	28.9	22.6	34.0



Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Manual Integrations
APPROVED

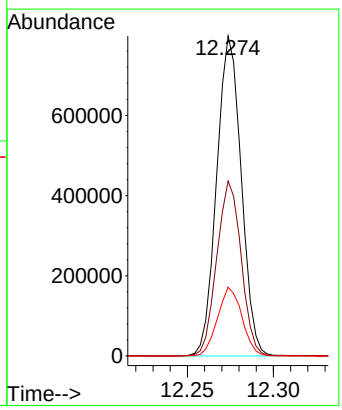
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

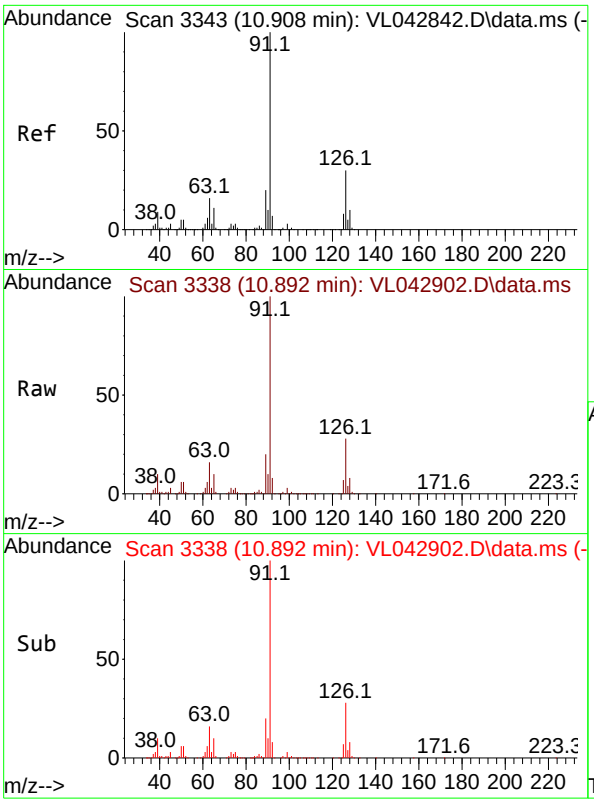


#70
n-Butylbenzene
Concen: 12.084 ppbv
RT: 12.274 min Scan# 3765
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 91 Resp: 793205

Ion	Ratio	Lower	Upper
91	100		
92	54.3	44.6	66.8
134	21.4	19.0	28.4

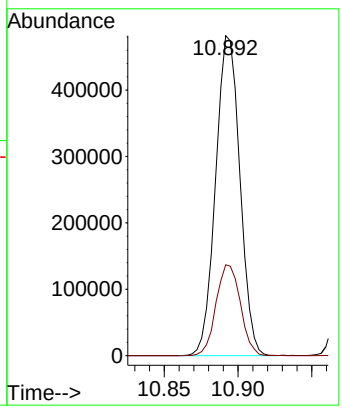




#71
2-Chlorotoluene
Concen: 11.398 ppbv
RT: 10.892 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 91 Resp: 55139

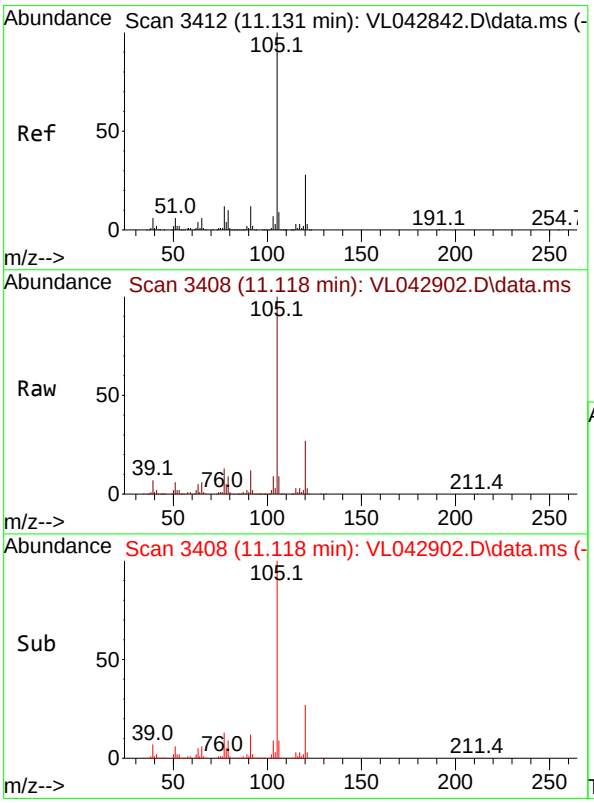
Ion	Ratio	Lower	Upper
91	100		
126	28.5	12.0	47.8



Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Manual Integrations
APPROVED

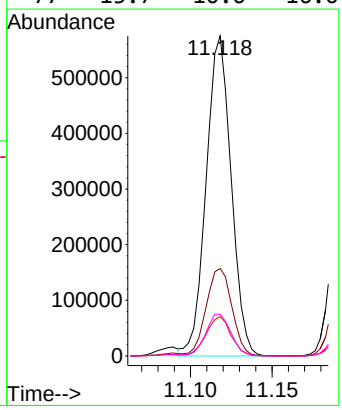
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

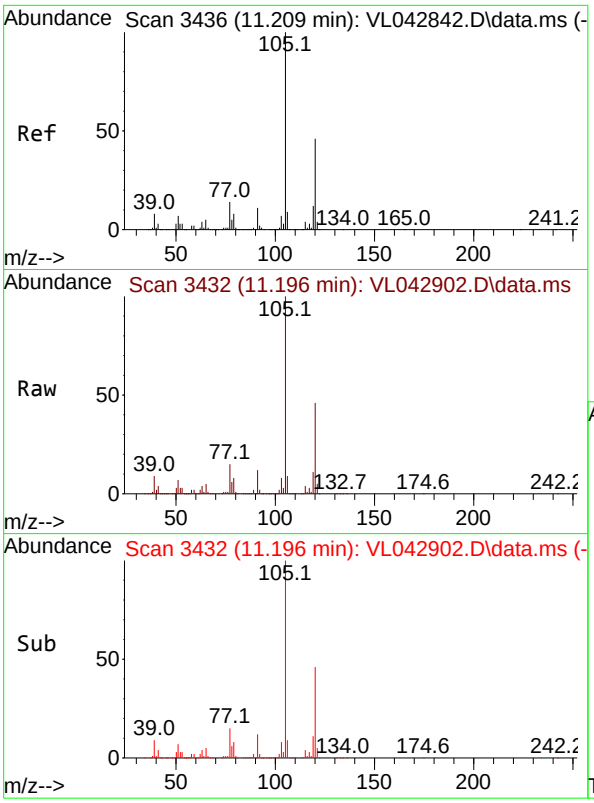


#72
4-Ethyltoluene
Concen: 11.871 ppbv
RT: 11.118 min Scan# 3408
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion:105 Resp: 613510

Ion	Ratio	Lower	Upper
105	100		
120	28.9	23.4	35.2
91	12.5	9.8	14.6
77	13.7	10.6	16.0

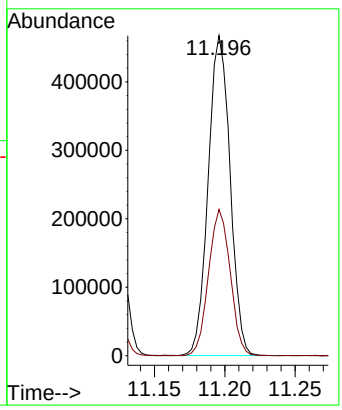




#73
1,3,5-Trimethylbenzene
Concen: 11.496 ppbv
RT: 11.196 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion:105 Resp: 50522

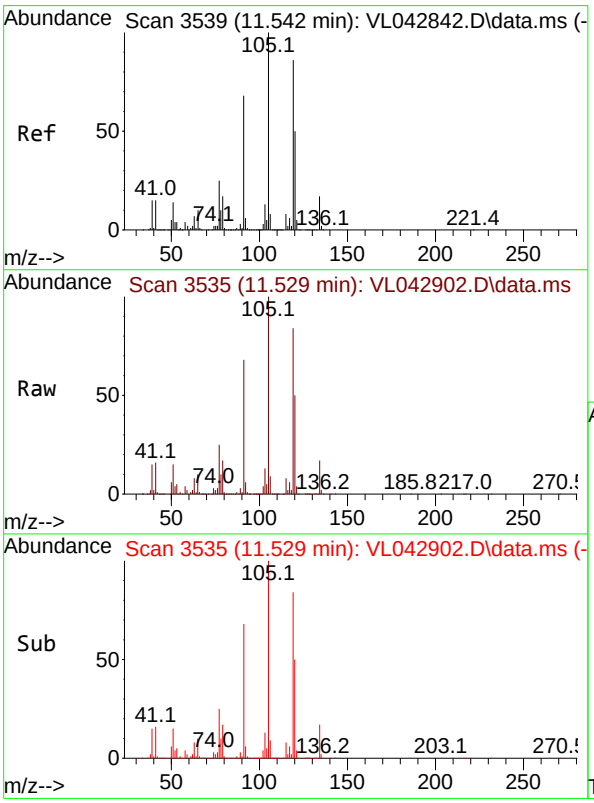
Ion	Ratio	Lower	Upper
105	100		
120	45.7	36.6	54.8



Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Manual Integrations
APPROVED

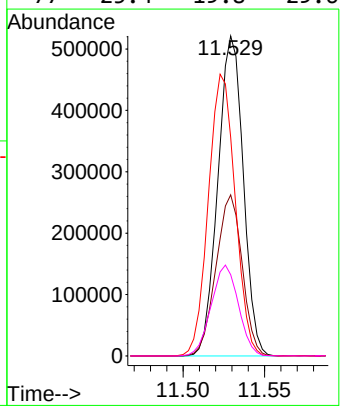
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

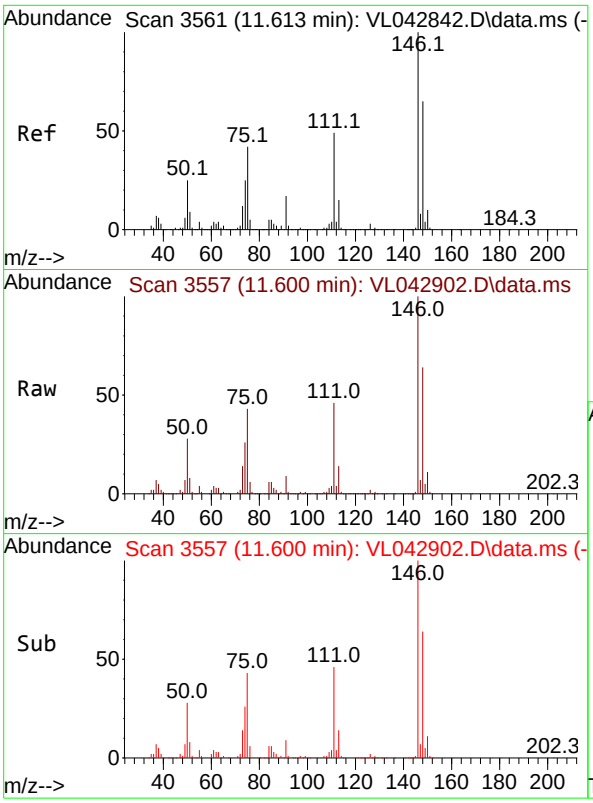


#74
1,2,4-Trimethylbenzene
Concen: 11.668 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion:105 Resp: 562868

Ion	Ratio	Lower	Upper
105	100		
120	50.3	39.8	59.6
91	68.3	54.2	81.4
77	25.4	19.8	29.6

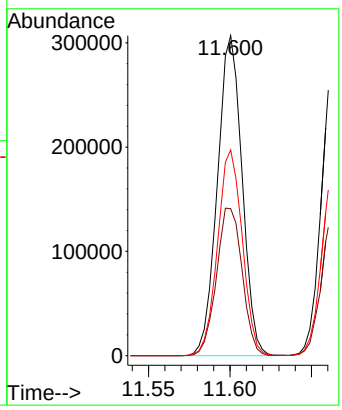




#75
1,3-Dichlorobenzene
Concen: 11.778 ppbv
RT: 11.600 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion:146 Resp: 32297

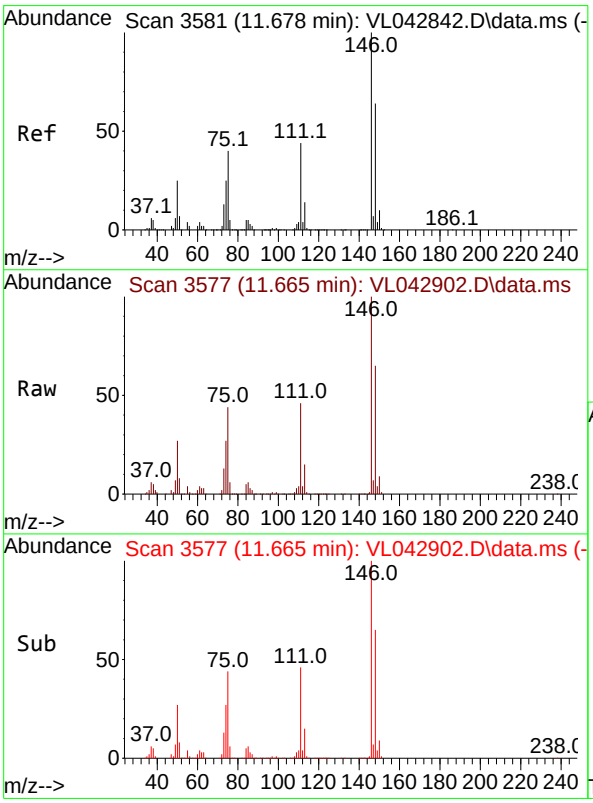
Ion	Ratio	Lower	Upper
146	100		
111	48.0	23.9	71.7
148	64.2	31.4	94.0



Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Manual Integrations
APPROVED

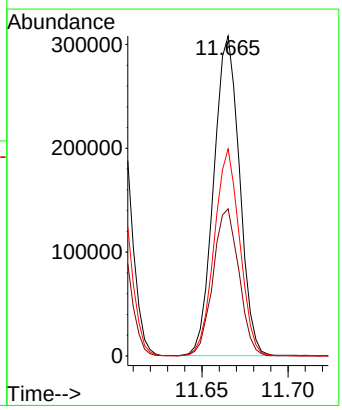
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

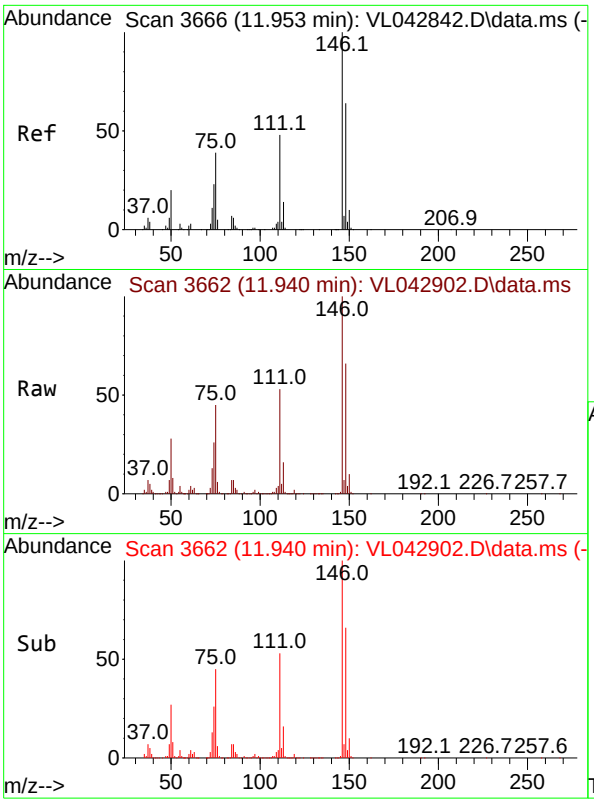


#76
1,4-Dichlorobenzene
Concen: 11.563 ppbv
RT: 11.665 min Scan# 3577
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion:146 Resp: 320689

Ion	Ratio	Lower	Upper
146	100		
111	46.3	22.7	68.1
148	64.1	31.8	95.3





#77
1,2-Dichlorobenzene
Concen: 11.524 ppbv
RT: 11.940 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

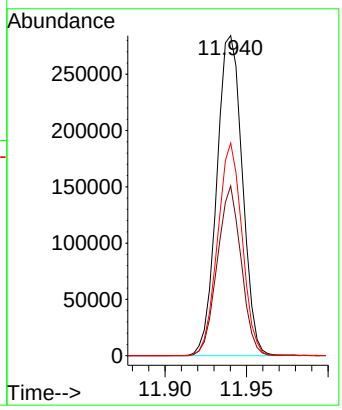
Tgt Ion:146 Resp: 30943

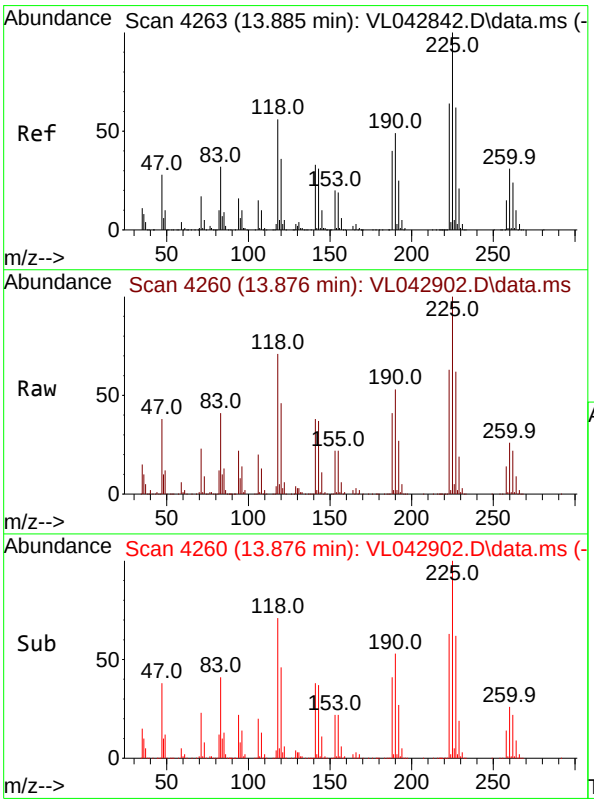
Ion	Ratio	Lower	Upper
146	100		
111	49.7	24.6	74.0
148	63.7	32.0	96.0

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

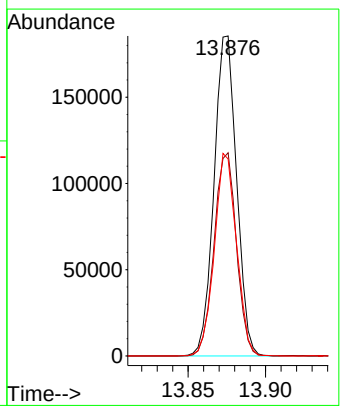


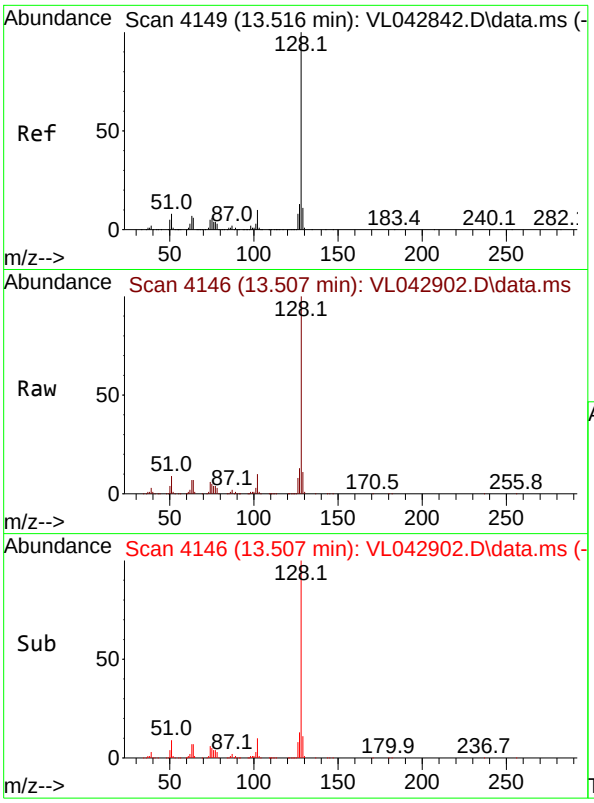


#78
Hexachloro-1,3-Butadiene
Concen: 8.542 ppbv
RT: 13.876 min Scan# 4260
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion:225 Resp: 187990

Ion	Ratio	Lower	Upper
225	100		
223	63.0	51.4	77.2
227	62.1	51.9	77.9

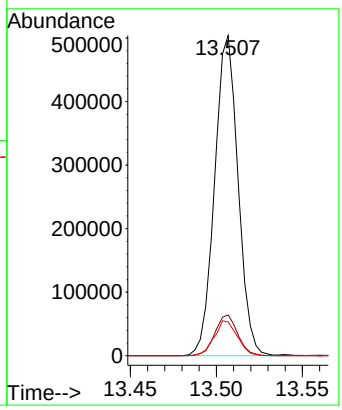




#79
Naphthalene
Concen: 10.914 ppbv
RT: 13.507 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion:128 Resp: 47731

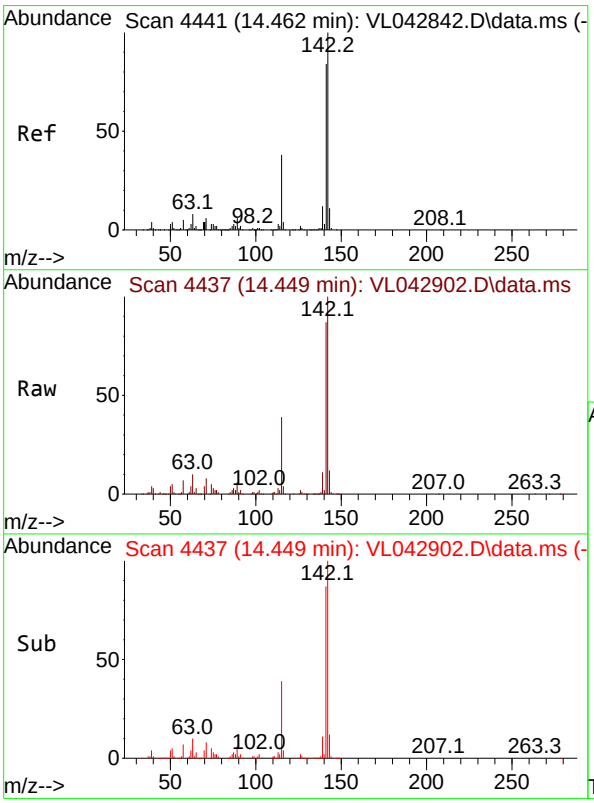
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.6	16.0
129	10.6	8.9	13.3



Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Manual Integrations
APPROVED

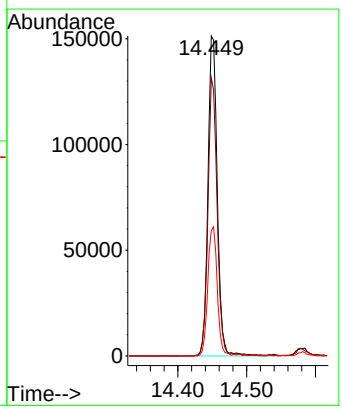
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

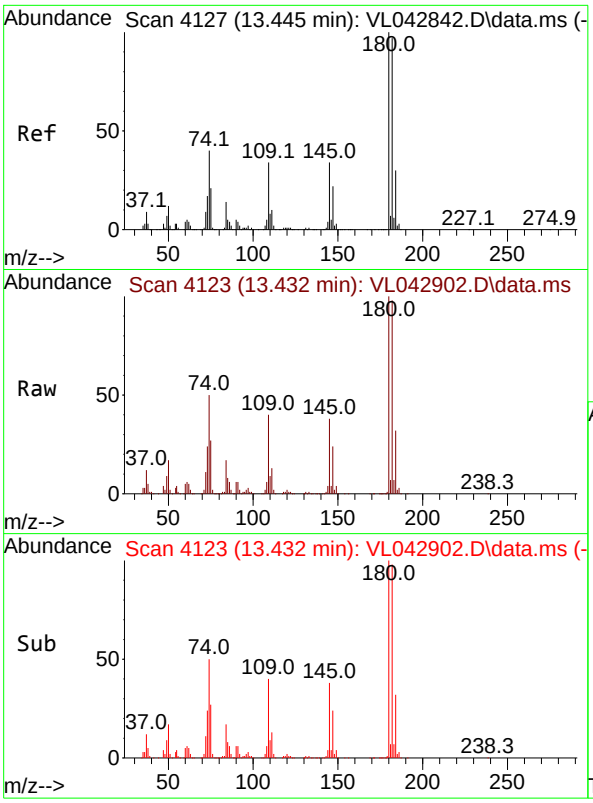


#80
Naphthalene,2-methyl-
Concen: 8.713 ppbv
RT: 14.449 min Scan# 4437
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion:142 Resp: 142381

Ion	Ratio	Lower	Upper
142	100		
141	85.9	67.0	100.6
115	41.3	30.9	46.3

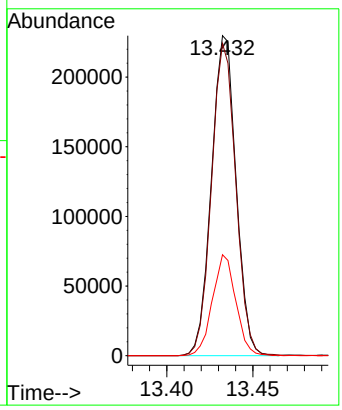




#81
1,2,4-Trichlorobenzene
Concen: 10.401 ppbv
RT: 13.432 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion:180 Resp: 22863

Ion	Ratio	Lower	Upper
180	100		
182	96.5	76.9	115.3
184	30.0	24.5	36.7



Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

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

Report of Analysis

Client:	Apex Companies, LLC.	Date Collected:	
Project:	Emerson Vapor Intrusion REG006-0309010-25011690	Date Received:	
Client Sample ID:	IA-2DUP	SDG No.:	Q3037
Lab Sample ID:	Q3037-01DUP	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042905.D	1		09/08/25 15:59	VL090825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL ug/m3	LOQ / CRQL ug/m3	
TARGETS							
75-01-4	Vinyl Chloride	0.030	0.080	U	0.080	0.080	
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.4			70 (65) - 130 (135)	104%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	141000		2.781			
540-36-3	1,4-Difluorobenzene	372000		3.949			
3114-55-4	Chlorobenzene-d5	303000		8.875			

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

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
Data File : VL042905.D
Acq On : 08 Sep 2025 15:59
Operator : SY/MD
Sample : Q3037-01DUP
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 09 00:57:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Sep 09 00:52:26 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.781	49	141221	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.949	114	372044	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.875	117	303028	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.370	95	235889	10.380	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 103.800%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.496	85	9819	0.474	ppbv		97
3) Chlorodifluoromethane	1.473	51	86667	3.788	ppbv	#	90
4) Chloromethane	1.531	50	8391	1.005	ppbv		100
9) Propene	1.486	41	8897m	0.901	ppbv		
11) Trichlorofluoromethane	1.874	101	8119m	0.398	ppbv		
13) Ethanol	1.719	45	171366	189.695	ppbv		92
15) Acetone	1.832	43	2269673	121.496	ppbv	#	76
19) Isopropyl Alcohol	1.884	45	2182649	195.618	ppbv		98
20) Methylene Chloride	2.062	84	8047	1.028	ppbv	#	74
23) Vinyl Acetate	2.450	43	18956m	0.738	ppbv		
25) Ethyl Acetate	2.832	43	150520	3.329	ppbv	#	95
29) Chloroform	2.845	83	8213	0.276	ppbv		93
34) 2-Butanone	2.554	43	27696	1.102	ppbv		97
35) Carbon Tetrachloride	3.755	117	4459	0.174	ppbv	#	97
36) Benzene	3.648	78	4495m	0.126	ppbv		
41) Tetrahydrofuran	3.062	42	3374m	0.241	ppbv		
43) Methyl Methacrylate	4.878	69	4057m	0.276	ppbv		
50) 4-Methyl-2-Pentanone	5.745	43	68077	2.005	ppbv		99
53) Toluene	6.927	91	14047m	0.332	ppbv		
59) m/p-Xylene	9.519	91	7173m	0.171	ppbv		
60) o-Xylene	9.959	91	4723	0.112	ppbv		87
64) n-propylbenzene	10.989	120	1655m	0.105	ppbv		
72) 4-Ethyltoluene	11.121	105	12693	0.248	ppbv	#	56
73) 1,3,5-Trimethylbenzene	11.196	105	14080	0.324	ppbv	#	84
74) 1,2,4-Trimethylbenzene	11.532	105	53636	1.124	ppbv	#	59

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

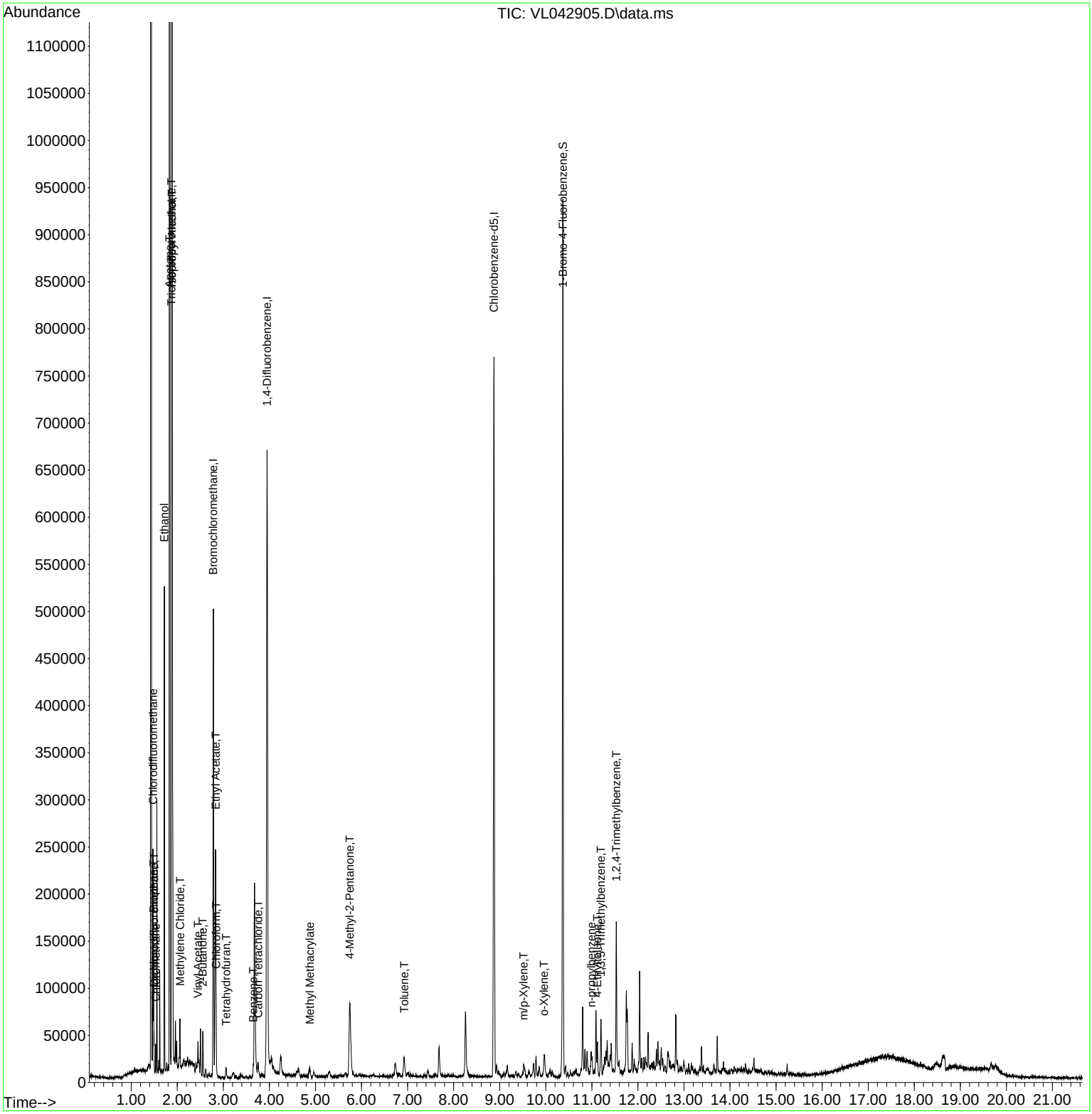
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
Data File : VL042905.D
Acq On : 08 Sep 2025 15:59
Operator : SY/MD
Sample : Q3037-01DUP
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

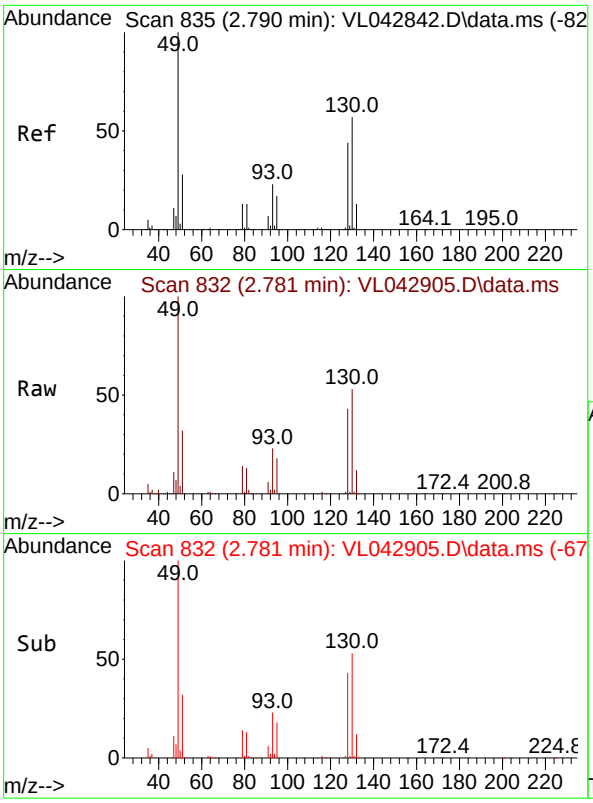
Quant Time: Sep 09 00:57:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Sep 09 00:52:26 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

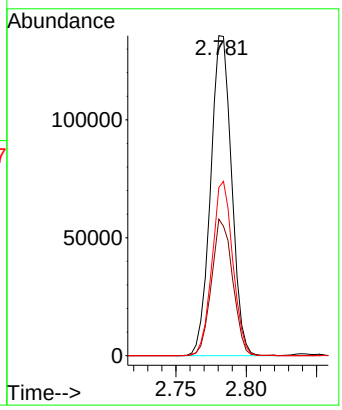




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 8
Delta R.T. 0.004 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion: 49 Resp: 14122

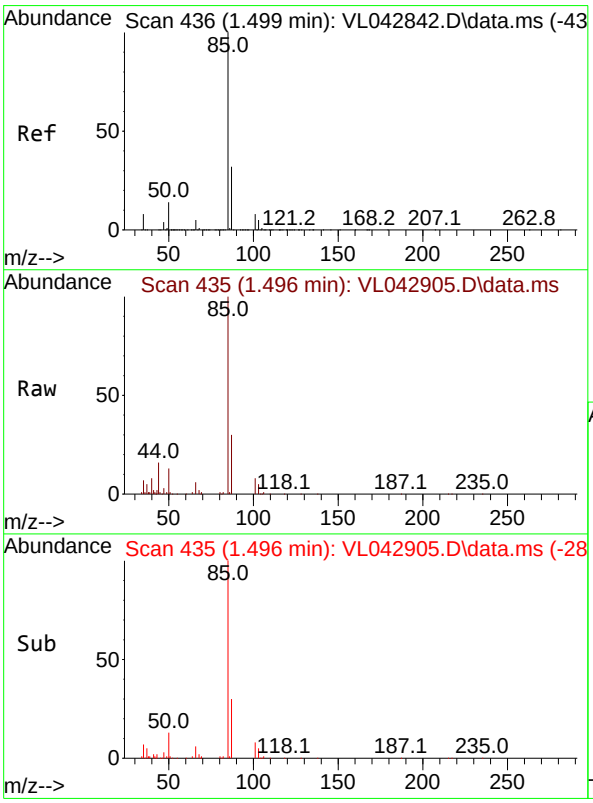
Ion	Ratio	Lower	Upper
49	100		
128	42.8	23.7	71.1
130	53.7	30.6	91.6



Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Manual Integrations
APPROVED

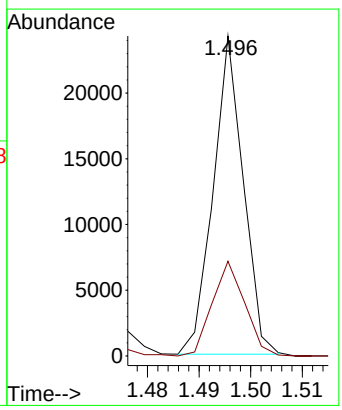
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

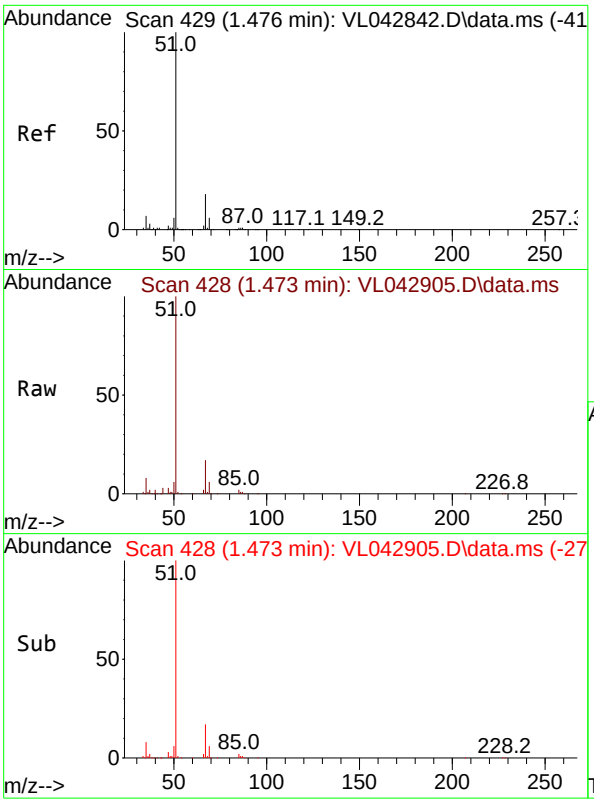


#2
Dichlorodifluoromethane
Concen: 0.474 ppbv
RT: 1.496 min Scan# 435
Delta R.T. 0.003 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion: 85 Resp: 9819

Ion	Ratio	Lower	Upper
85	100		
87	29.8	25.3	37.9

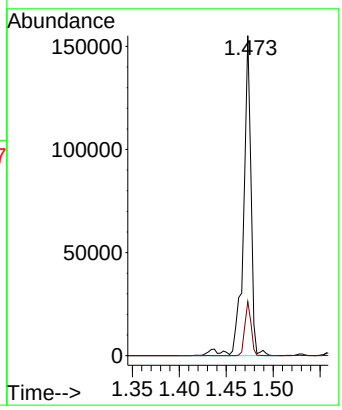




#3
Chlorodifluoromethane
Concen: 3.788 ppbv
RT: 1.473 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion: 51 Resp: 8666

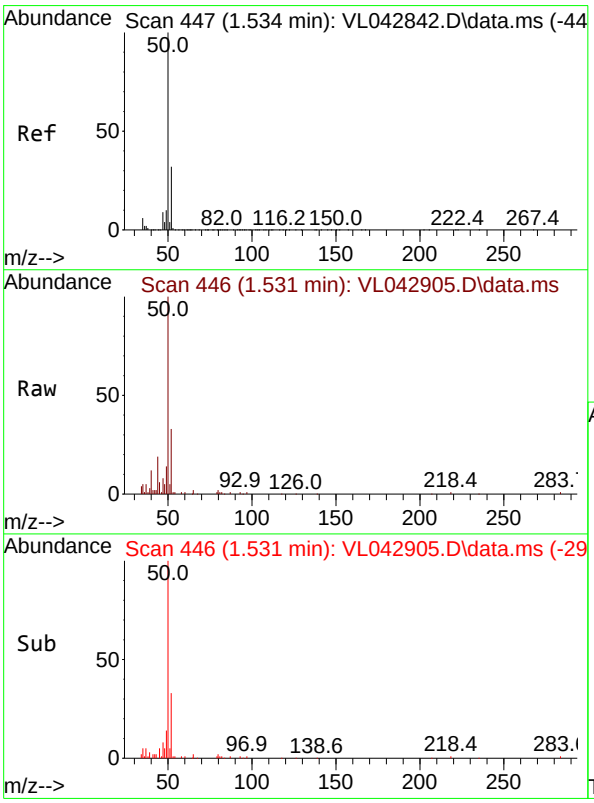
Ion	Ratio	Lower	Upper
51	100		
67	14.0	14.9	22.3#



Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Manual Integrations
APPROVED

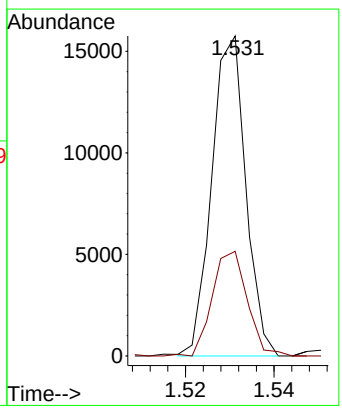
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

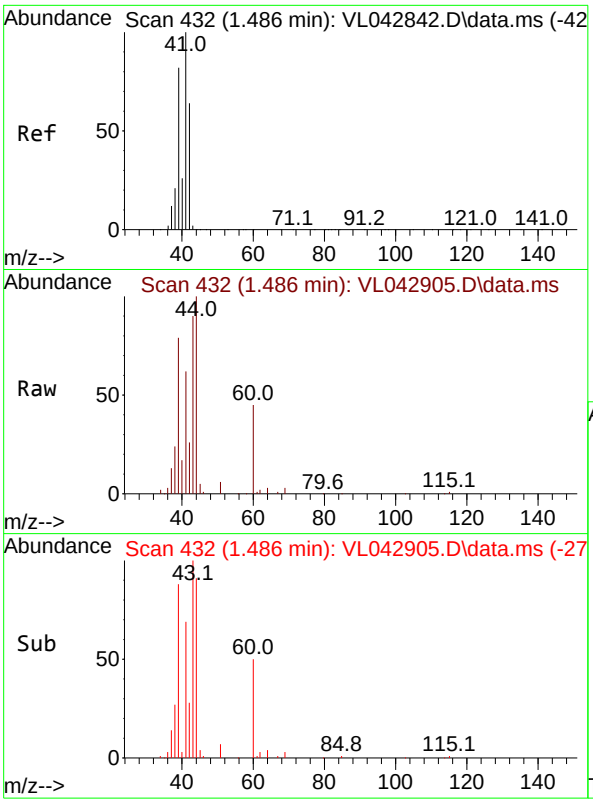


#4
Chloromethane
Concen: 1.005 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.003 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion: 50 Resp: 8391

Ion	Ratio	Lower	Upper
50	100		
52	32.2	25.9	38.9

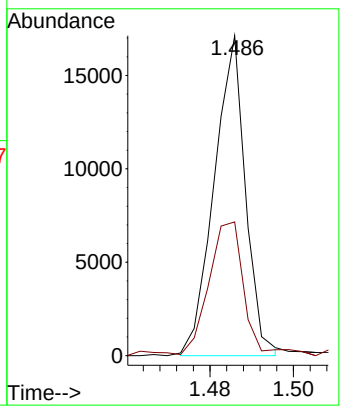




#9
Propene
Concen: 0.901 ppbv m
RT: 1.486 min Scan# 4
Delta R.T. 0.010 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion: 41 Resp: 889

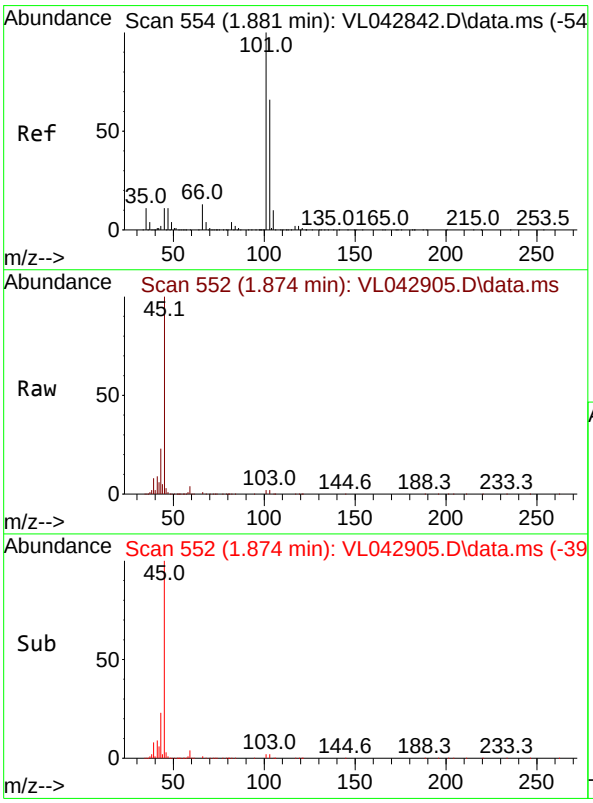
Ion	Ratio	Lower	Upper
41	100		
42	1680.7	53.0	79.4



Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Manual Integrations
APPROVED

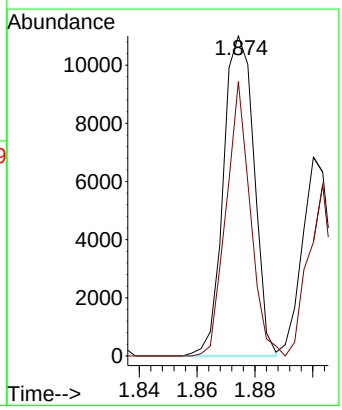
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

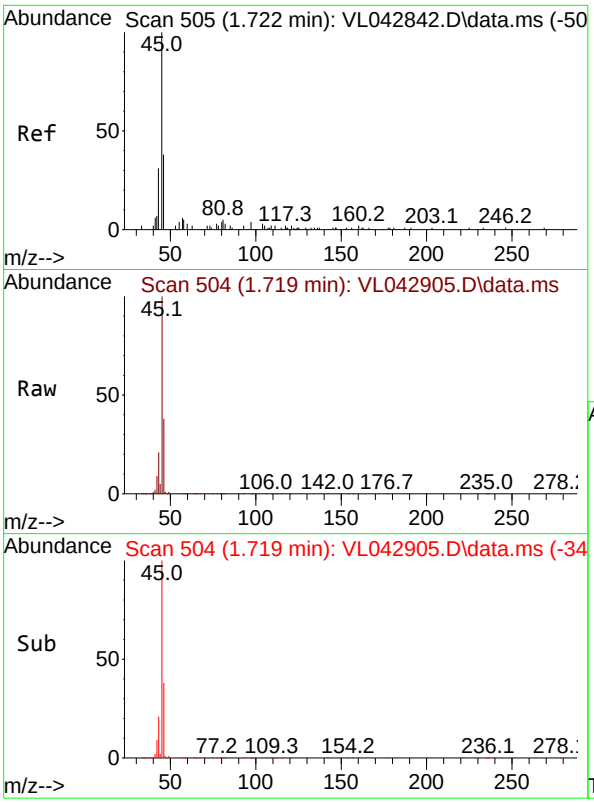


#11
Trichlorofluoromethane
Concen: 0.398 ppbv m
RT: 1.874 min Scan# 552
Delta R.T. 0.003 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion:101 Resp: 8119

Ion	Ratio	Lower	Upper
101	100		
103	85.8	52.5	78.7#

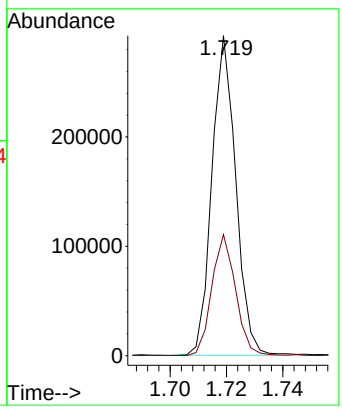




#13
Ethanol
Concen: 189.695 ppbv
RT: 1.719 min Scan# 5(
Delta R.T. 0.003 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion: 45 Resp: 17136(

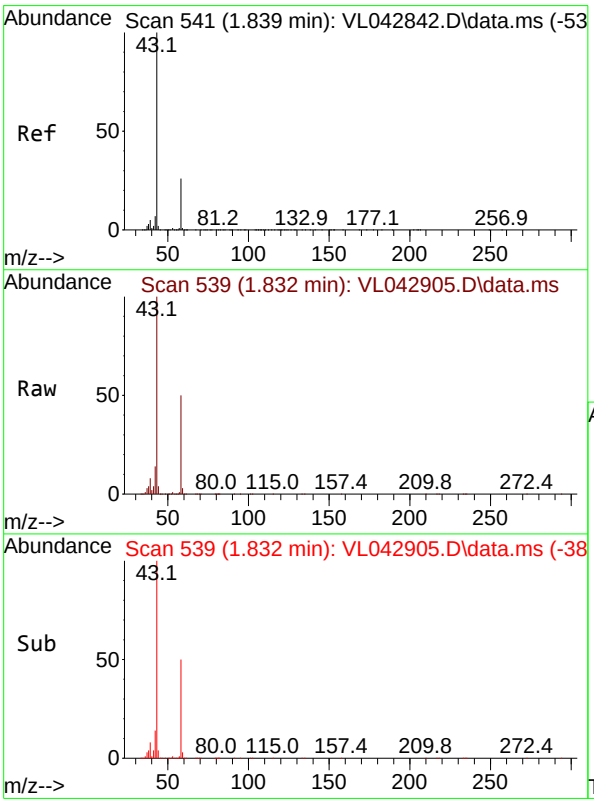
Ion	Ratio	Lower	Upper
45	100		
46	38.4	17.5	69.9



Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Manual Integrations
APPROVED

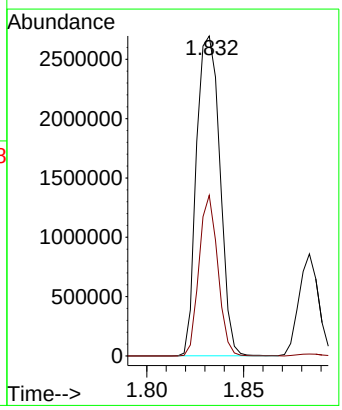
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

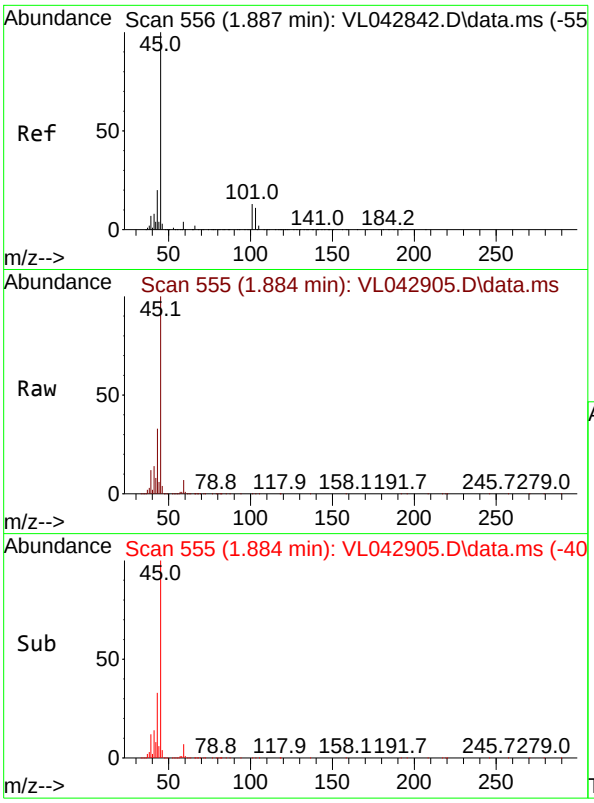


#15
Acetone
Concen: 121.496 ppbv
RT: 1.832 min Scan# 539
Delta R.T. 0.003 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion: 43 Resp: 2269673

Ion	Ratio	Lower	Upper
43	100		
58	40.4	22.4	33.6#

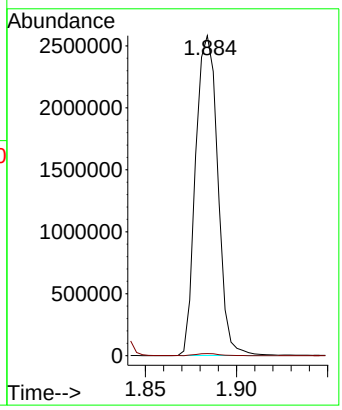




#19
Isopropyl Alcohol
Concen: 195.618 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion: 45 Resp: 218264

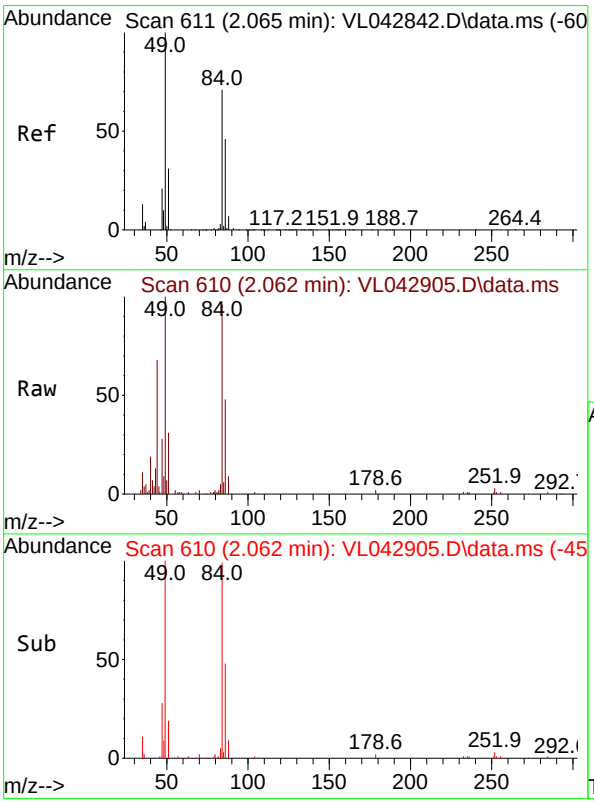
Ion	Ratio	Lower	Upper
45	100		
58	42.0	32.7	49.1



Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Manual Integrations
APPROVED

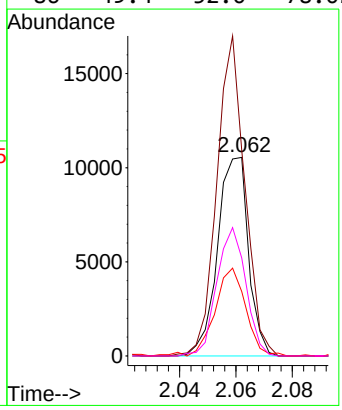
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

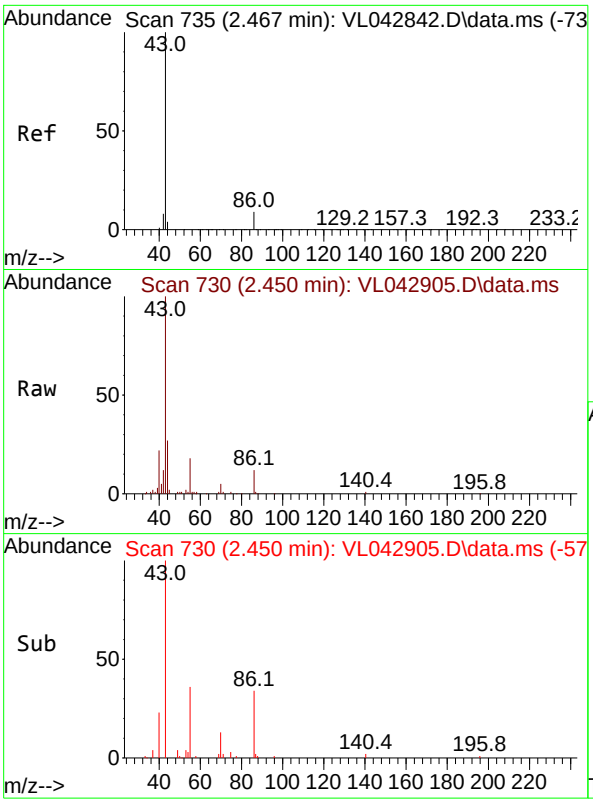


#20
Methylene Chloride
Concen: 1.028 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.006 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion: 84 Resp: 8047

Ion	Ratio	Lower	Upper
84	100		
49	102.7	112.3	168.5#
51	30.7	36.0	54.0#
86	49.4	52.0	78.0#

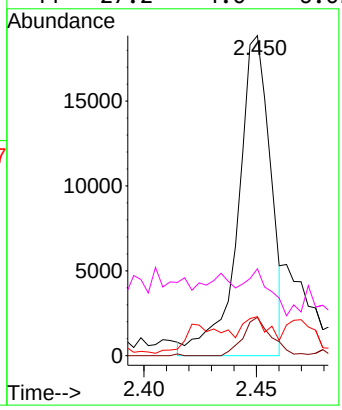




#23
Vinyl Acetate
Concen: 0.738 ppbv m
RT: 2.450 min Scan# 7
Delta R.T. -0.003 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion: 43 Resp: 1895

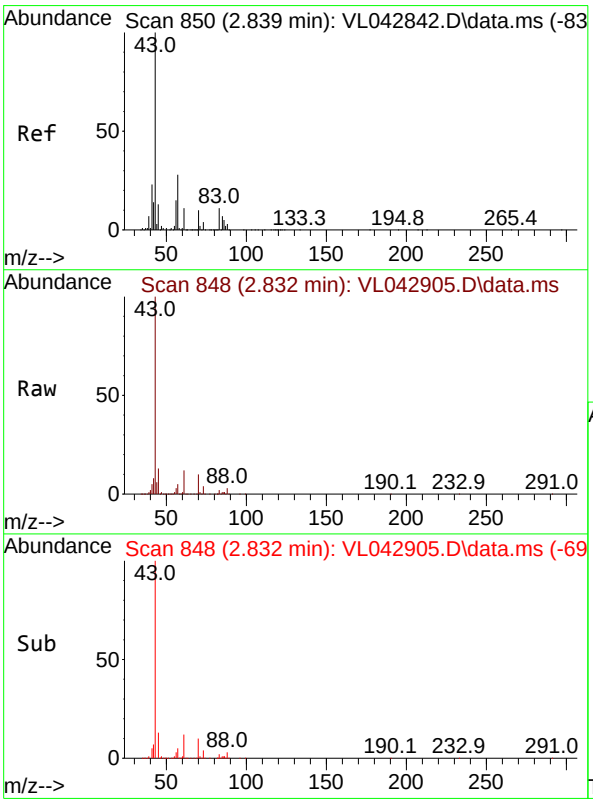
Ion	Ratio	Lower	Upper
43	100		
86	12.0	6.6	9.8#
42	12.2	7.0	10.6#
44	27.2	4.0	6.0#



Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Manual Integrations
APPROVED

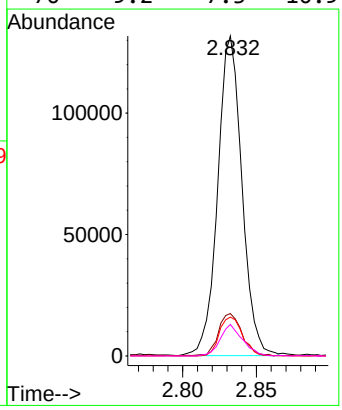
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

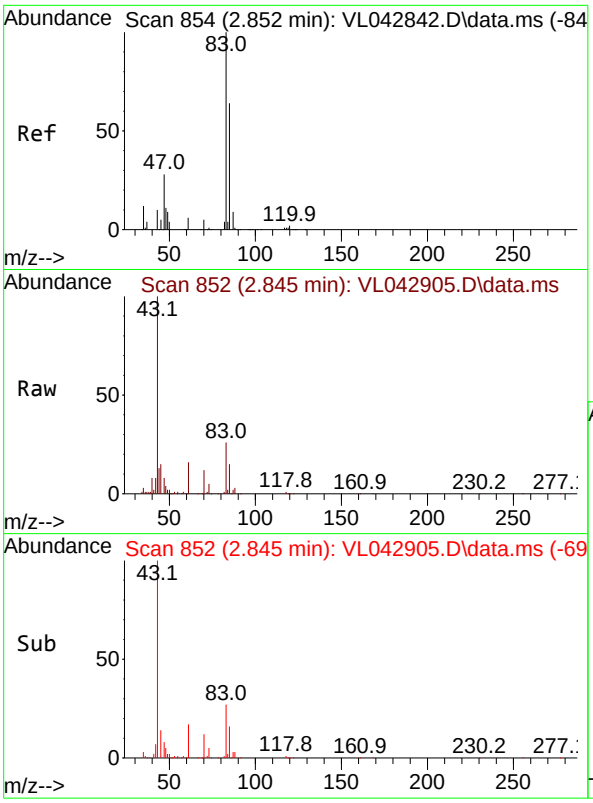


#25
Ethyl Acetate
Concen: 3.329 ppbv
RT: 2.832 min Scan# 848
Delta R.T. 0.006 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion: 43 Resp: 150520

Ion	Ratio	Lower	Upper
43	100		
45	12.7	8.1	12.1#
61	11.7	7.4	11.2#
70	9.2	7.3	10.9

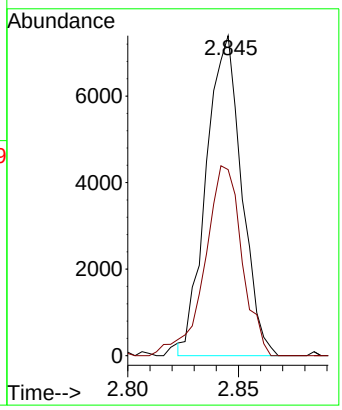




#29
Chloroform
Concen: 0.276 ppbv
RT: 2.845 min Scan# 8
Delta R.T. 0.006 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion: 83 Resp: 821

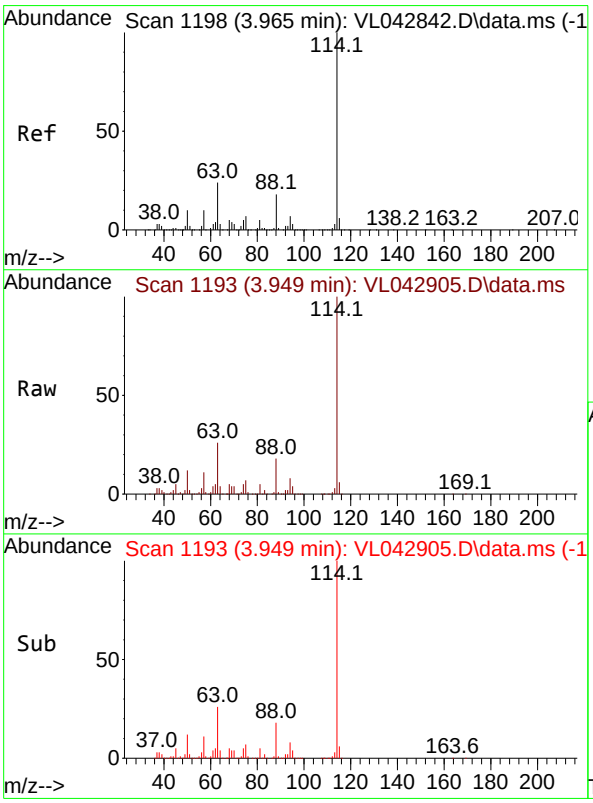
Ion	Ratio	Lower	Upper
83	100		
85	58.1	51.1	76.7



Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Manual Integrations
APPROVED

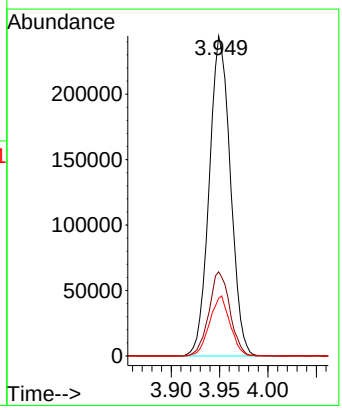
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

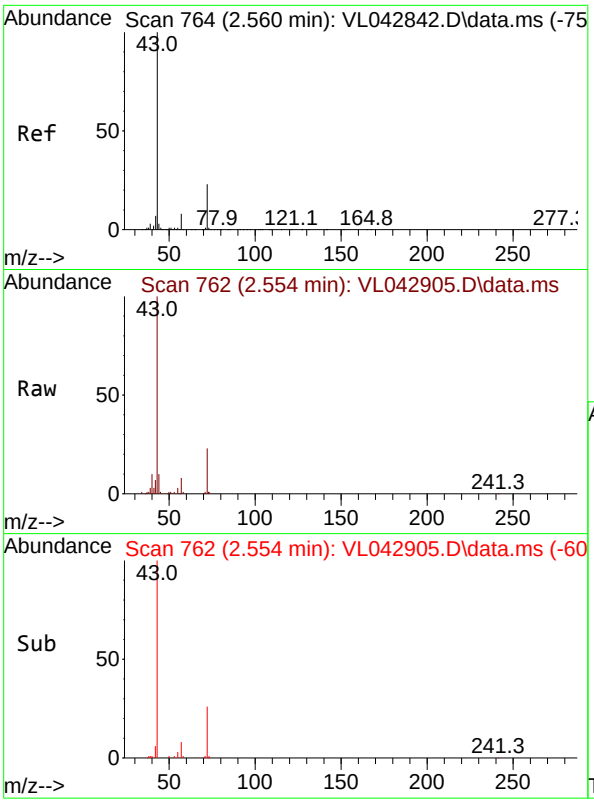


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 1193
Delta R.T. 0.006 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion:114 Resp: 372044

Ion	Ratio	Lower	Upper
114	100		
63	26.1	19.7	29.5
88	18.1	14.4	21.6





#34
2-Butanone
Concen: 1.102 ppbv
RT: 2.554 min Scan# 7
Delta R.T. 0.006 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

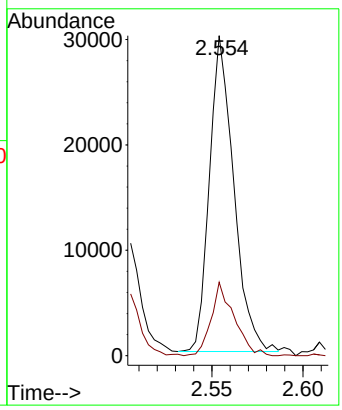
Tgt Ion: 43 Resp: 2769

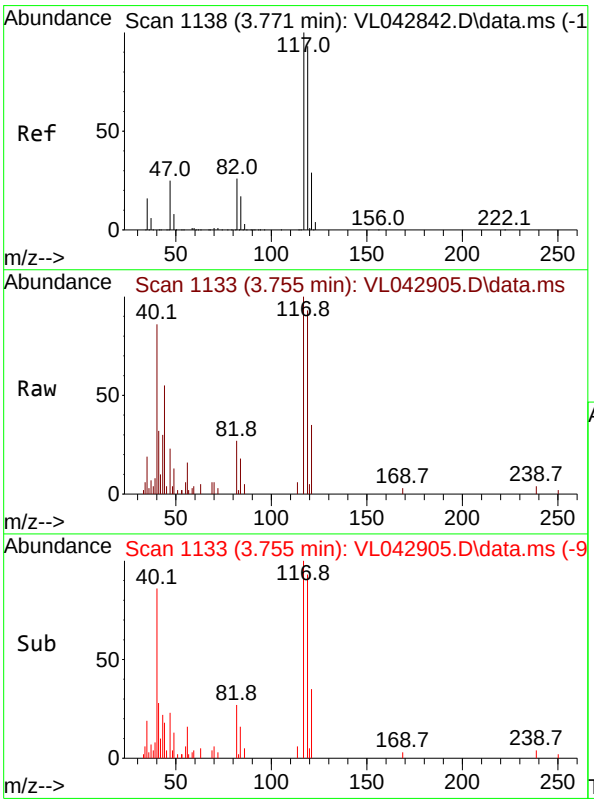
Ion	Ratio	Lower	Upper
43	100		
72	21.9	18.6	28.0

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

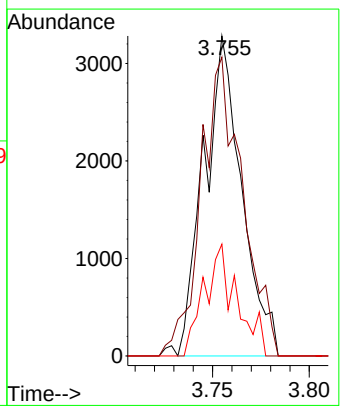


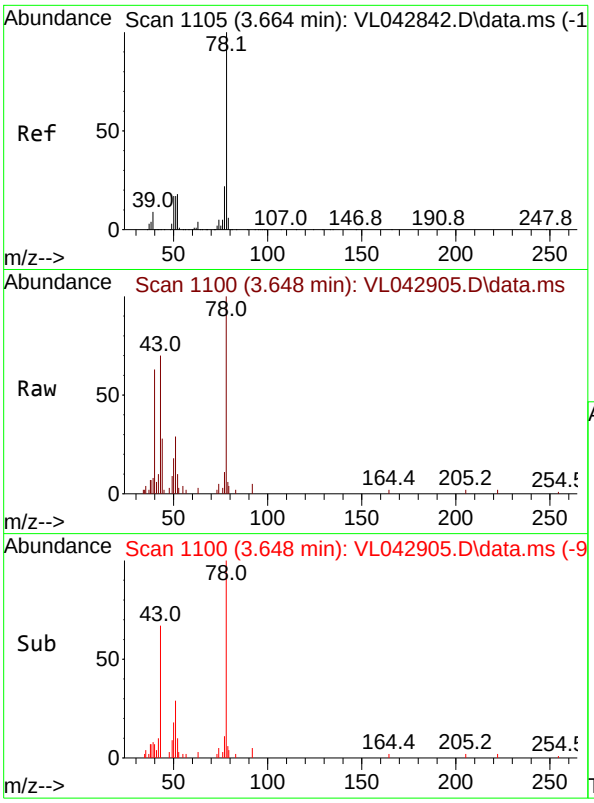


#35
Carbon Tetrachloride
Concen: 0.174 ppbv
RT: 3.755 min Scan# 1133
Delta R.T. 0.006 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion:117 Resp: 4459

Ion	Ratio	Lower	Upper
117	100		
119	93.4	74.7	112.1
121	34.9	23.2	34.8#

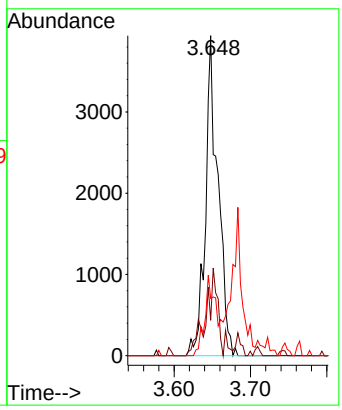




#36
Benzene
Concen: 0.126 ppbv m
RT: 3.648 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion: 78 Resp: 449

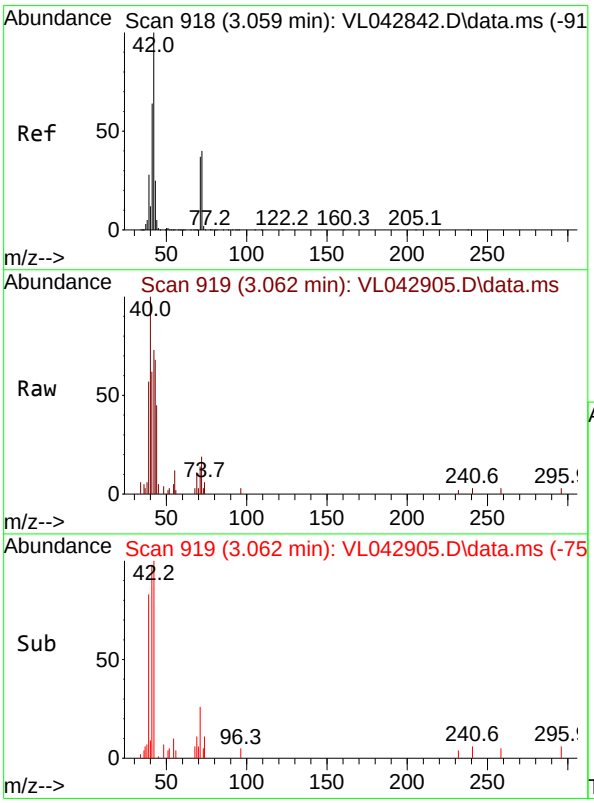
Ion	Ratio	Lower	Upper
78	100		
77	11.0	17.7	26.5#
50	17.9	13.9	20.9



Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Manual Integrations
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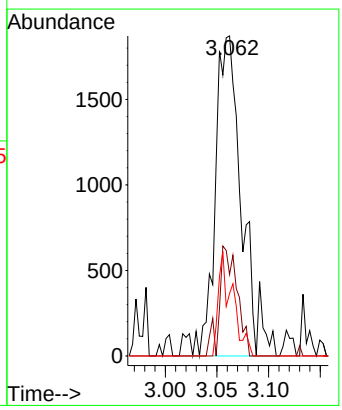
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

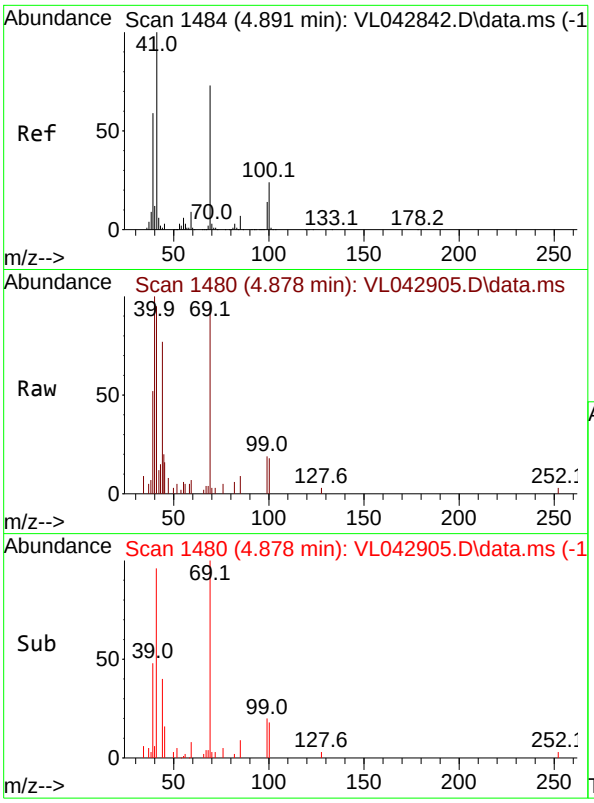


#41
Tetrahydrofuran
Concen: 0.241 ppbv m
RT: 3.062 min Scan# 919
Delta R.T. 0.019 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion: 42 Resp: 3374

Ion	Ratio	Lower	Upper
42	100		
72	22.9	32.6	48.8#
71	17.3	30.0	45.0#

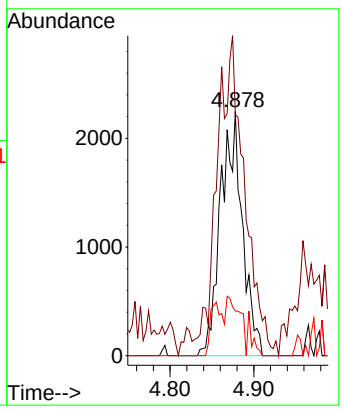




#43
Methyl Methacrylate
Concen: 0.276 ppbv m
RT: 4.878 min Scan# 14
Delta R.T. 0.019 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion: 69 Resp: 405

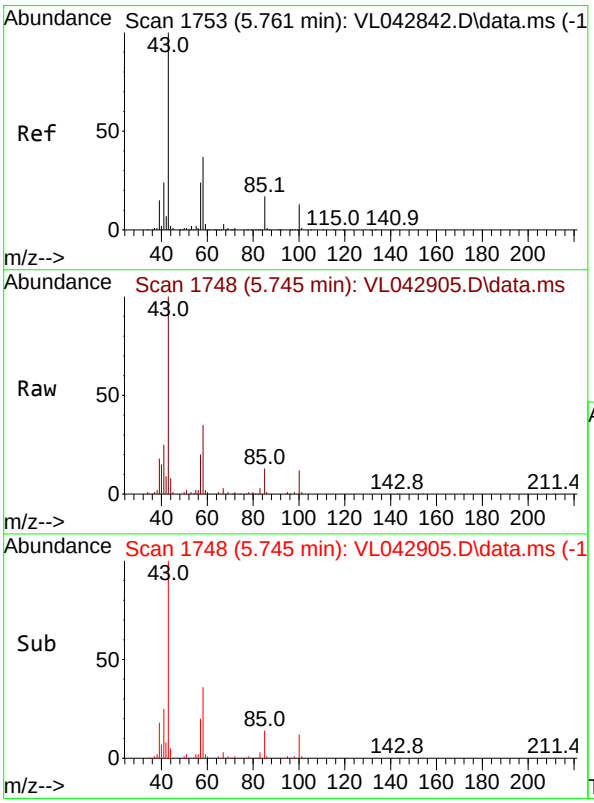
Ion	Ratio	Lower	Upper
69	100		
41	0.0	114.6	172.0#
100	30.9	30.2	45.4



Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Manual Integrations
APPROVED

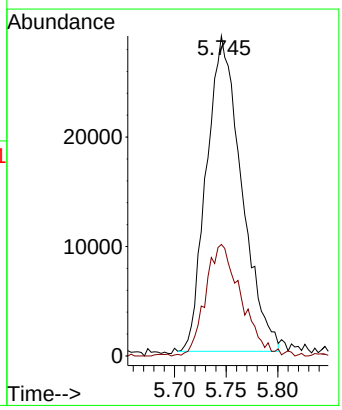
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

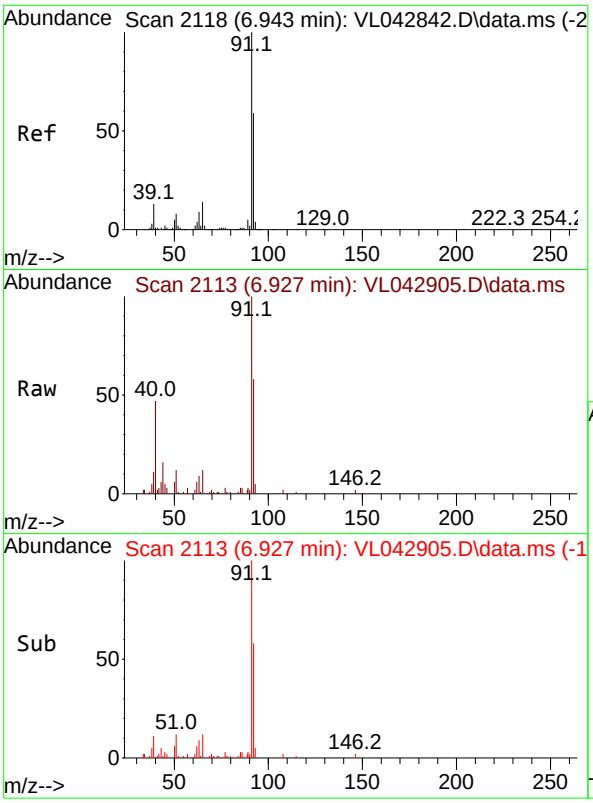


#50
4-Methyl-2-Pentanone
Concen: 2.005 ppbv
RT: 5.745 min Scan# 1748
Delta R.T. 0.016 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion: 43 Resp: 68077

Ion	Ratio	Lower	Upper
43	100		
58	36.5	29.8	44.8

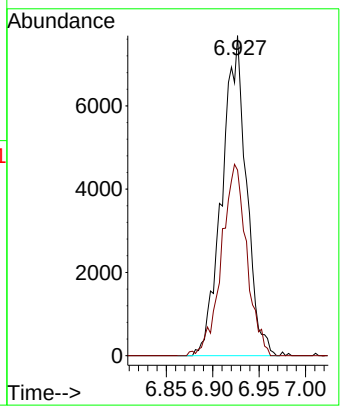




#53
Toluene
Concen: 0.332 ppbv m
RT: 6.927 min Scan# 2
Delta R.T. 0.013 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion: 91 Resp: 1404

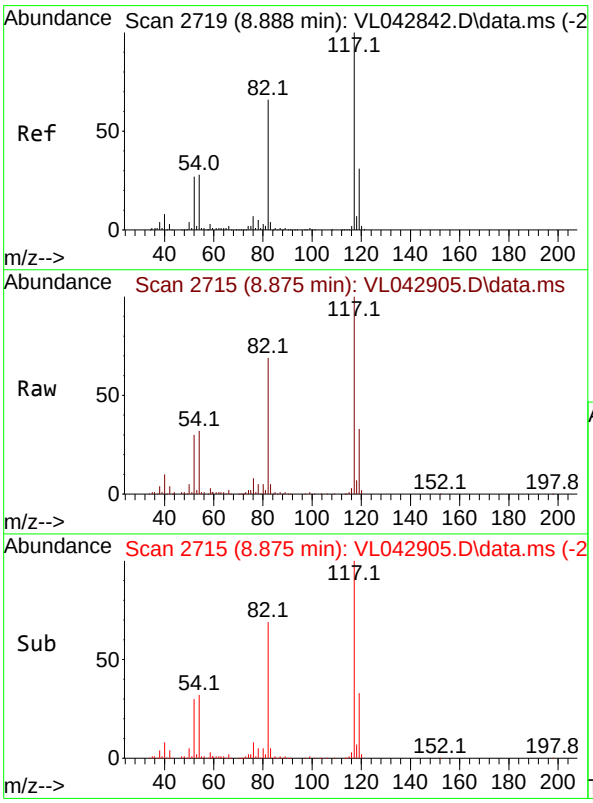
Ion	Ratio	Lower	Upper
91	100		
92	61.8	47.8	71.6



Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Manual Integrations
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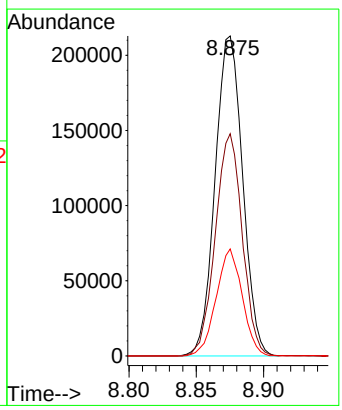
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

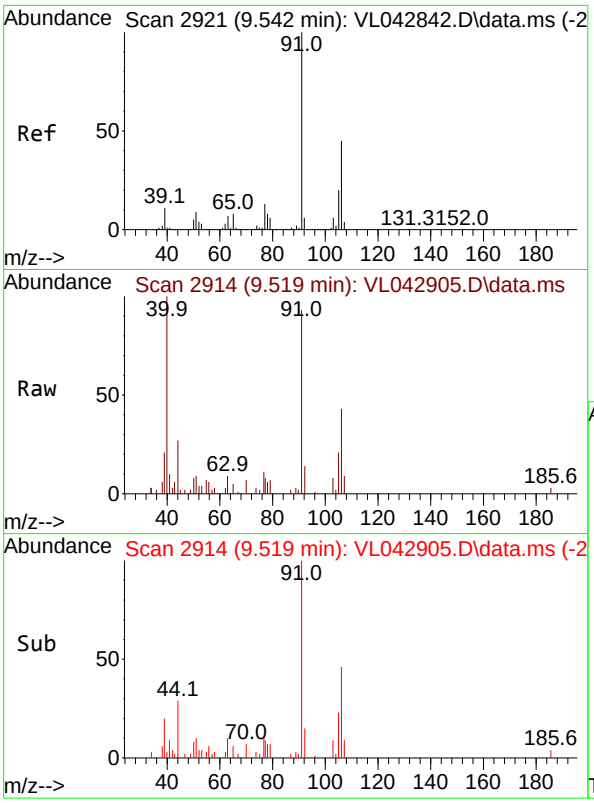


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. 0.006 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion:117 Resp: 303028

Ion	Ratio	Lower	Upper
117	100		
82	67.9	54.6	81.8
119	31.7	25.9	38.9





#59
m/p-Xylene
Concen: 0.171 ppbv m
RT: 9.519 min Scan# 2
Delta R.T. -0.019 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

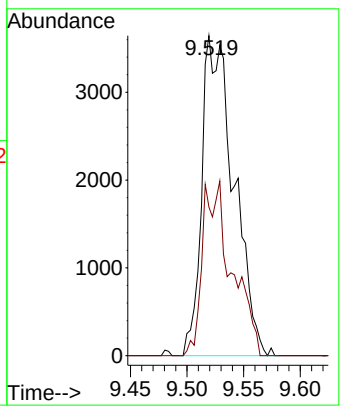
Tgt Ion: 91 Resp: 717

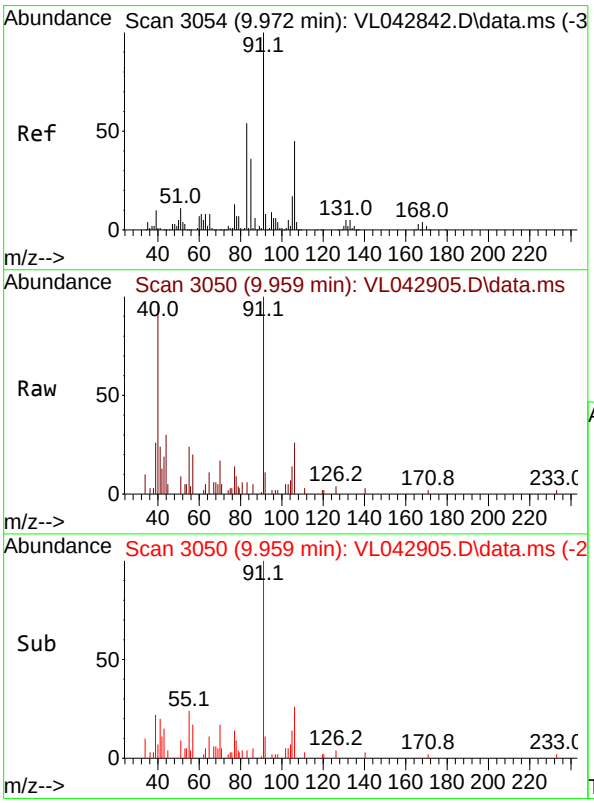
Ion	Ratio	Lower	Upper
91	100		
106	0.0	0.0	0.0

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

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Supervised By :Mahesh Dadoda 09/11/2025

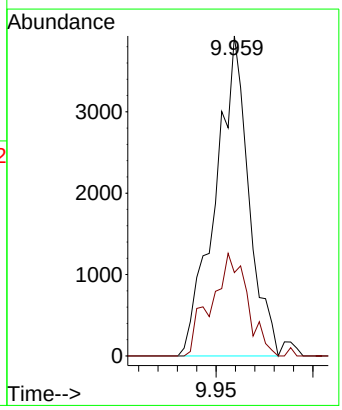


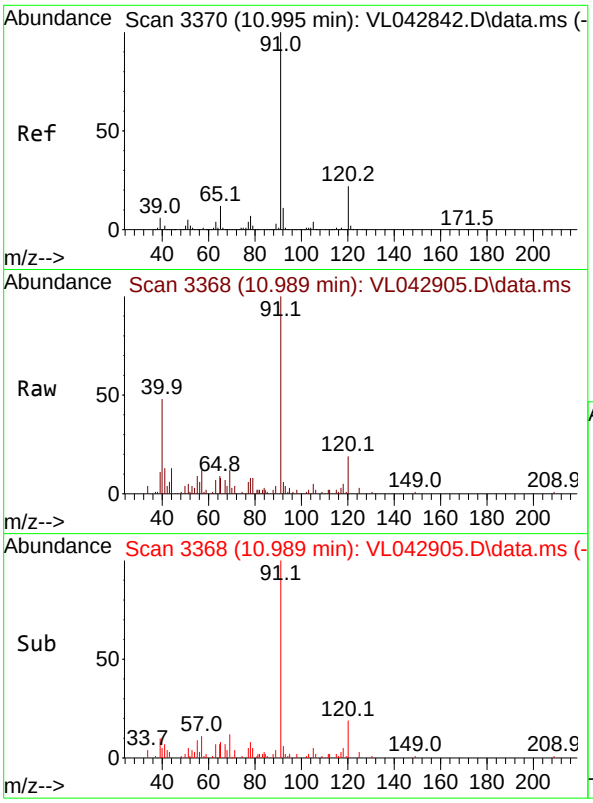


#60
o-Xylene
Concen: 0.112 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. 0.006 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion: 91 Resp: 4723

Ion	Ratio	Lower	Upper
91	100		
106	35.0	21.8	65.4

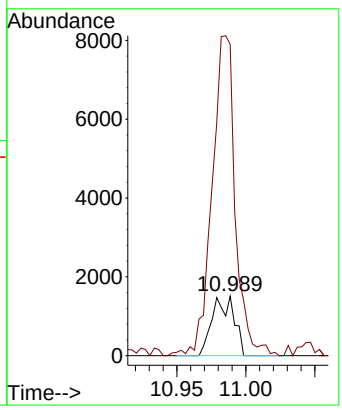




#64
n-propylbenzene
Concen: 0.105 ppbv m
RT: 10.989 min Scan# 3
Delta R.T. 0.010 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion:120 Resp: 165

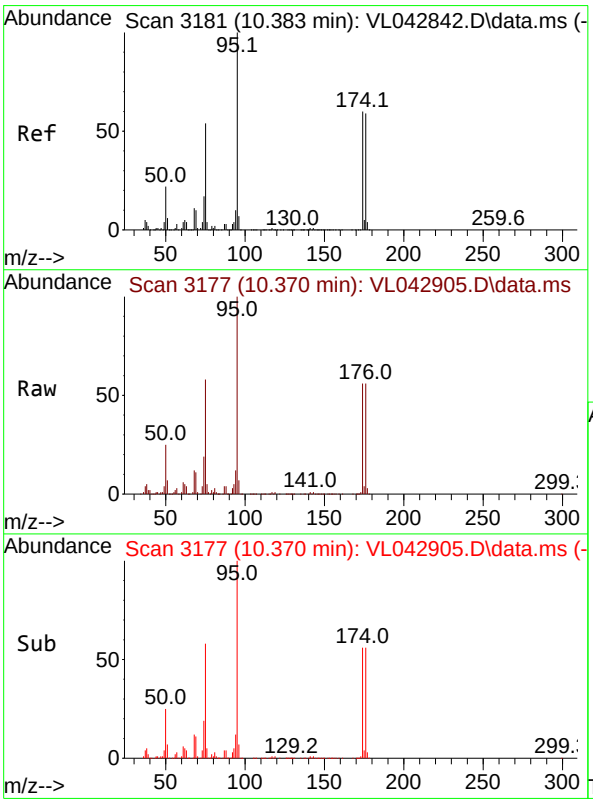
Ion	Ratio	Lower	Upper
120	100		
91	573.7	375.8	563.6



Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Manual Integrations
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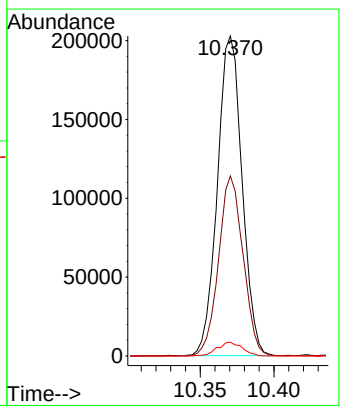
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

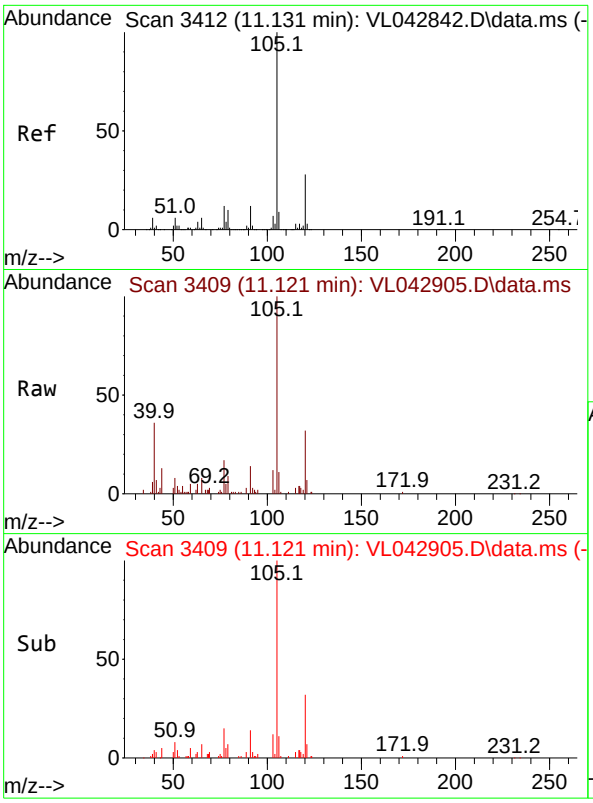


#68
1-Bromo-4-Fluorobenzene
Concen: 10.380 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. 0.006 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion: 95 Resp: 235889

Ion	Ratio	Lower	Upper
95	100		
174	56.1	48.4	72.6
175	4.4	3.8	5.8

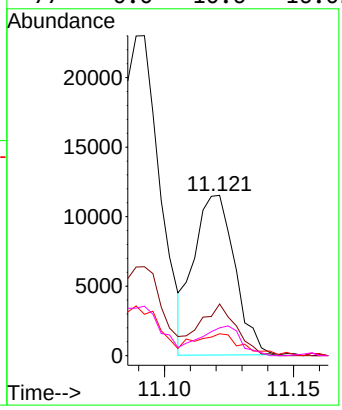




#72
4-Ethyltoluene
Concen: 0.248 ppbv
RT: 11.121 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion:105 Resp: 1269

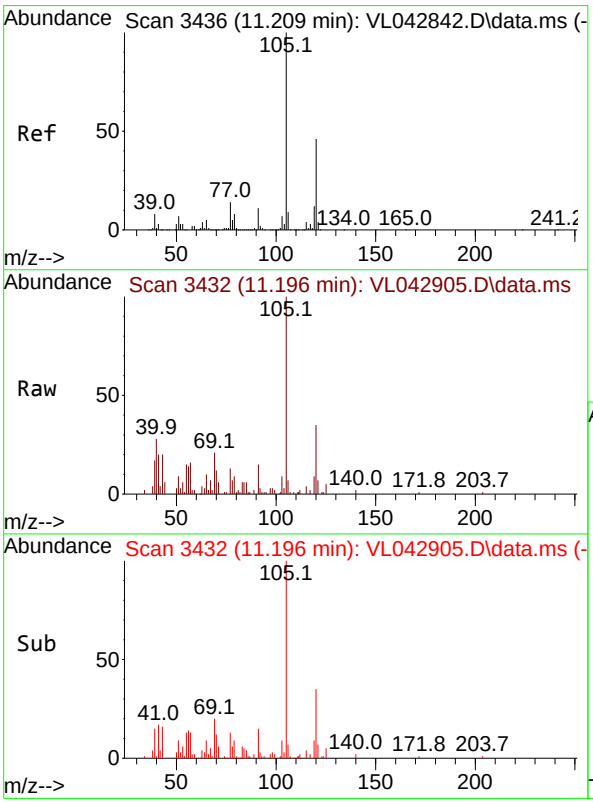
Ion	Ratio	Lower	Upper
105	100		
120	0.0	23.4	35.2#
91	0.0	9.8	14.6#
77	0.0	10.6	16.0#



Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Manual Integrations
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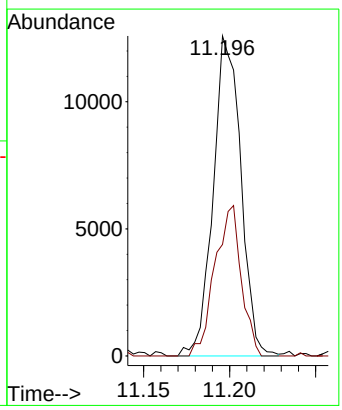
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

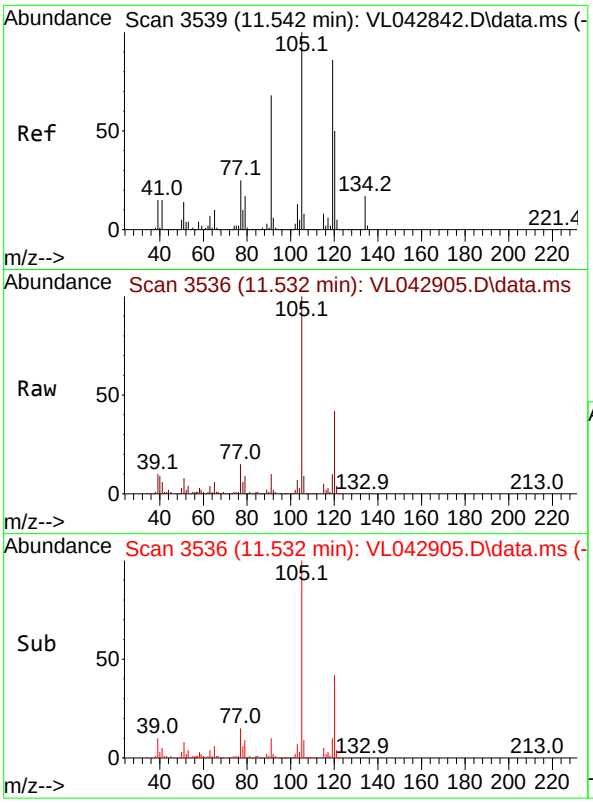


#73
1,3,5-Trimethylbenzene
Concen: 0.324 ppbv
RT: 11.196 min Scan# 3432
Delta R.T. -0.000 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion:105 Resp: 14080

Ion	Ratio	Lower	Upper
105	100		
120	34.8	36.6	54.8#

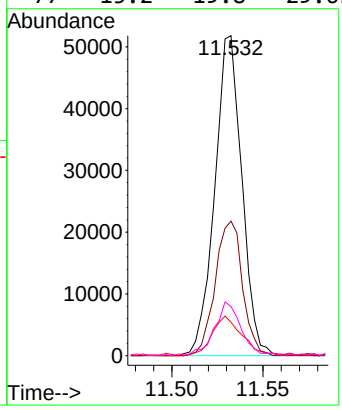




#74
1,2,4-Trimethylbenzene
Concen: 1.124 ppbv
RT: 11.532 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion:105 Resp: 5363

Ion	Ratio	Lower	Upper
105	100		
120	42.0	39.8	59.6
91	10.5	54.2	81.4#
77	15.2	19.8	29.6#



Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

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
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
VSTDICC002	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
VSTDICC002	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
VSTDICC002	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
VSTDICC002	VL042843.D	Ethanol	SAM	8/14/2025 7:48:12 AM	MMDadoda	8/18/2025 8:42:11 AM	Peak Integrated by Software
VSTDICC002	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
VSTDICC002	VL042843.D	Methyl Methacrylate	SAM	8/14/2025 7:48:12 AM	MMDadoda	8/18/2025 8:42:11 AM	Peak Integrated by Software
VSTDICC001	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
VSTDICC001	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
VSTDICC001	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
VSTDICC001	VL042844.D	Ethanol	SAM	8/14/2025 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrated by Software
VSTDICC001	VL042844.D	Heptane	SAM	8/14/2025 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrated by Software
VSTDICC001	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

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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

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Manual Integration Report

Sequence:	VL081325	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
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
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
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
VSTDICC0.1	VL042846.D	Trichloroethene	SAM	8/14/2025 7:48:23 AM	MMDadoda	8/18/2025 8:42:18 AM	Peak Integrated by Software
VSTDICC0.03	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
VSTDICC0.03	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
VSTDICC0.03	VL042847.D	Carbon Tetrachloride	SAM	8/14/2025 7:49:29 AM	MMDadoda	8/18/2025 8:42:20 AM	Peak Integrated by Software
VSTDICC0.03	VL042847.D	Tetrachloroethene	SAM	8/14/2025 7:49:29 AM	MMDadoda	8/18/2025 8:42:20 AM	Peak Integrated by Software
VSTDICC0.03	VL042847.D	Trichloroethene	SAM	8/14/2025 7:49:29 AM	MMDadoda	8/18/2025 8:42:20 AM	Peak Integrated by Software
VSTDICC015	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
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

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Manual Integration Report

Sequence:	VL081325	Instrument	MSVOA_I

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

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

Manual Integration Report

Sequence:	vl090825	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL042900.D	m/p-Xylene	sam	9/9/2025 12:26:34 PM	MMDadoda	9/11/2025 5:28:20 PM	Peak Integrated by Software
VL0908ABS01	VL042902.D	m/p-Xylene	sam	9/9/2025 12:26:38 PM	MMDadoda	9/11/2025 5:24:29 PM	Peak Integrated by Software
VL0908ABS01	VL042902.D	Propene	sam	9/9/2025 12:26:38 PM	MMDadoda	9/11/2025 5:24:29 PM	Peak Integrated by Software
Q3037-01	VL042904.D	4-Methyl-2-Pentanone	sam	9/9/2025 12:26:43 PM	MMDadoda	9/11/2025 5:28:18 PM	Peak Integrated by Software
Q3037-01	VL042904.D	Benzene	sam	9/9/2025 12:26:43 PM	MMDadoda	9/11/2025 5:28:18 PM	Peak Integrated by Software
Q3037-01	VL042904.D	Carbon Tetrachloride	sam	9/9/2025 12:26:43 PM	MMDadoda	9/11/2025 5:28:18 PM	Peak Integrated by Software
Q3037-01	VL042904.D	m/p-Xylene	sam	9/9/2025 12:26:43 PM	MMDadoda	9/11/2025 5:28:18 PM	Peak Integrated by Software
Q3037-01	VL042904.D	Methyl Methacrylate	sam	9/9/2025 12:26:43 PM	MMDadoda	9/11/2025 5:28:18 PM	Peak Integrated by Software
Q3037-01	VL042904.D	n-propylbenzene	sam	9/9/2025 12:26:43 PM	MMDadoda	9/11/2025 5:28:18 PM	Peak Integrated by Software
Q3037-01	VL042904.D	Propene	sam	9/9/2025 12:26:43 PM	MMDadoda	9/11/2025 5:28:18 PM	Peak Integrated by Software
Q3037-01	VL042904.D	Trichlorofluoromethane	sam	9/9/2025 12:26:43 PM	MMDadoda	9/11/2025 5:28:18 PM	Peak Integrated by Software
Q3037-01	VL042904.D	Vinyl Acetate	sam	9/9/2025 12:26:43 PM	MMDadoda	9/11/2025 5:28:18 PM	Peak Integrated by Software
Q3037-01DUP	VL042905.D	Benzene	sam	9/9/2025 12:31:10 PM	MMDadoda	9/11/2025 5:28:16 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	vl090825	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q3037-01DUP	VL042905.D	m/p-Xylene	sam	9/9/2025 12:31:10 PM	MMDadoda	9/11/2025 5:28:16 PM	Peak Integrated by Software
Q3037-01DUP	VL042905.D	Methyl Methacrylate	sam	9/9/2025 12:31:10 PM	MMDadoda	9/11/2025 5:28:16 PM	Peak Integrated by Software
Q3037-01DUP	VL042905.D	n-propylbenzene	sam	9/9/2025 12:31:10 PM	MMDadoda	9/11/2025 5:28:16 PM	Peak Integrated by Software
Q3037-01DUP	VL042905.D	Propene	sam	9/9/2025 12:31:10 PM	MMDadoda	9/11/2025 5:28:16 PM	Peak Integrated by Software
Q3037-01DUP	VL042905.D	Tetrahydrofuran	sam	9/9/2025 12:31:10 PM	MMDadoda	9/11/2025 5:28:16 PM	Peak Integrated by Software
Q3037-01DUP	VL042905.D	Toluene	sam	9/9/2025 12:31:10 PM	MMDadoda	9/11/2025 5:28:16 PM	Peak Integrated by Software
Q3037-01DUP	VL042905.D	Trichlorofluoromethane	sam	9/9/2025 12:31:10 PM	MMDadoda	9/11/2025 5:28:16 PM	Peak Integrated by Software
Q3037-01DUP	VL042905.D	Vinyl Acetate	sam	9/9/2025 12:31:10 PM	MMDadoda	9/11/2025 5:28:16 PM	Peak Integrated by Software

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Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch 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	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	VSTDICC002	VL042843.D	13 Aug 2025 09:06	SY/MD	Ok,M
4	VSTDICC001	VL042844.D	13 Aug 2025 09:41	SY/MD	Ok,M
5	VSTDICC0.5	VL042845.D	13 Aug 2025 10:17	SY/MD	Ok,M
6	VSTDICC0.1	VL042846.D	13 Aug 2025 10:53	SY/MD	Ok,M
7	VSTDICC0.03	VL042847.D	13 Aug 2025 11:30	SY/MD	Ok,M
8	VSTDICC015	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

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Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch 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

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Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL090825

Review By	Mahesh Dadoda	Review On	9/11/2025 5:29:46 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	9/18/2025 6:48:50 AM		
SubDirectory	VL090825	HP Acquire Method	TO15AIR	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	VL042899.D	08 Sep 2025 08:41	SY/MD	Ok
2	VSTDCCC010	VL042900.D	08 Sep 2025 11:05	SY/MD	Ok,M
3	VL0908ABL01	VL042901.D	08 Sep 2025 11:55	SY/MD	Ok
4	VL0908ABS01	VL042902.D	08 Sep 2025 13:35	SY/MD	Ok,M
5	Q3038-01	VL042903.D	08 Sep 2025 14:19	SY/MD	Not Ok
6	Q3037-01	VL042904.D	08 Sep 2025 15:15	SY/MD	Ok,M
7	Q3037-01DUP	VL042905.D	08 Sep 2025 15:59	SY/MD	Ok,M
8	Q3038-01	VL042906.D	08 Sep 2025 16:33	SY/MD	Ok,M
9	QC090425 CAN 10158	VL042907.D	08 Sep 2025 17:09	SY/MD	Ok
10	Q3052-03	VL042908.D	08 Sep 2025 17:45	SY/MD	Dilution
11	Q3052-04	VL042909.D	08 Sep 2025 18:21	SY/MD	Ok,M
12	Q3052-01	VL042910.D	08 Sep 2025 18:56	SY/MD	Dilution
13	Q3052-02	VL042911.D	08 Sep 2025 19:31	SY/MD	Not Ok
14	VIBLK	VL042912.D	08 Sep 2025 20:33	SY/MD	Ok
15	Q3052-03DL	VL042913.D	08 Sep 2025 21:08	SY/MD	Ok,M
16	Q3052-04DUP	VL042914.D	08 Sep 2025 21:45	SY/MD	Ok,M
17	Q3052-02DL	VL042915.D	08 Sep 2025 22:20	SY/MD	Not Ok
18	Q3052-02	VL042916.D	08 Sep 2025 22:55	SY/MD	Not Ok
19	Q3052-02	VL042917.D	09 Sep 2025 07:48	SY/MD	Not Ok
20	Q3052-01DL	VL042918.D	09 Sep 2025 08:22	SY/MD	Ok,M
21	Q3052-02	VL042919.D	09 Sep 2025 08:57	SY/MD	Not Ok

M : Manual Integration

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Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch 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 LOQ	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

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Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch 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

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Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL090825

Review By	Mahesh Dadoda	Review On	9/11/2025 5:29:46 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	9/18/2025 6:48:50 AM		
SubDirectory	VL090825	HP Acquire Method	TO15AIR	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	VL042899.D	08 Sep 2025 08:41		SY/MD	Ok
2	VSTDCCC010	VSTDCCC010	VL042900.D	08 Sep 2025 11:05		SY/MD	Ok,M
3	VL0908ABL01	VL0908ABL01	VL042901.D	08 Sep 2025 11:55		SY/MD	Ok
4	VL0908ABS01	VL0908ABS01	VL042902.D	08 Sep 2025 13:35		SY/MD	Ok,M
5	Q3038-01	SV-1	VL042903.D	08 Sep 2025 14:19	Not required	SY/MD	Not Ok
6	Q3037-01	IA-2	VL042904.D	08 Sep 2025 15:15		SY/MD	Ok,M
7	Q3037-01DUP	IA-2DUP	VL042905.D	08 Sep 2025 15:59		SY/MD	Ok,M
8	Q3038-01	SV-1	VL042906.D	08 Sep 2025 16:33		SY/MD	Ok,M
9	QC090425 CAN 10158	QC090425 CAN 10158	VL042907.D	08 Sep 2025 17:09		SY/MD	Ok
10	Q3052-03	IA1	VL042908.D	08 Sep 2025 17:45	Need 20X	SY/MD	Dilution
11	Q3052-04	OA1	VL042909.D	08 Sep 2025 18:21		SY/MD	Ok,M
12	Q3052-01	SV1	VL042910.D	08 Sep 2025 18:56	Need 200X	SY/MD	Dilution
13	Q3052-02	SV2	VL042911.D	08 Sep 2025 19:31	Not required	SY/MD	Not Ok
14	VIBLK	VIBLK	VL042912.D	08 Sep 2025 20:33		SY/MD	Ok
15	Q3052-03DL	IA1DL	VL042913.D	08 Sep 2025 21:08		SY/MD	Ok,M
16	Q3052-04DUP	OA1DUP	VL042914.D	08 Sep 2025 21:45		SY/MD	Ok,M
17	Q3052-02DL	SV2DL	VL042915.D	08 Sep 2025 22:20	Not match	SY/MD	Not Ok
18	Q3052-02	SV2	VL042916.D	08 Sep 2025 22:55	Not required	SY/MD	Not Ok

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Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL090825

Review By	Mahesh Dadoda	Review On	9/11/2025 5:29:46 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	9/18/2025 6:48:50 AM		
SubDirectory	VL090825	HP Acquire Method	TO15AIR	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	Q3052-02	SV2	VL042917.D	09 Sep 2025 07:48	Not required	SY/MD	Not Ok
20	Q3052-01DL	SV1DL	VL042918.D	09 Sep 2025 08:22		SY/MD	Ok,M
21	Q3052-02	SV2	VL042919.D	09 Sep 2025 08:57	Need 60X,out of tune time	SY/MD	Not Ok

M : Manual Integration

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Prep Standard - Chemical Standard Summary

Order ID : Q3037

Test : VOCMS Group2

Prepbatch ID :

Sequence ID/Qc Batch ID: vl090825,

Standard ID :
AP2650,AP2652,AP2653,AP2654,AP2655,

Chemical ID :
A1117,A1138,A1139,A1140,

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Air STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2396	TO-15 15 PPBV CAL MIX	AP2650	08/11/2025	09/13/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 08/20/2025

FROM 1455.00000SCCM of A1117 + 45.00000SCCM of A1140 = Final Quantity: 30.000 psi

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2397	TO-15 -2 PPBV CAL.MIX	AP2652	08/11/2025	09/13/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 08/20/2025

FROM 26.00000psi of A1117 + 4.00000psi of AP2650 = Final Quantity: 30.000 psi

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Air STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2668	0.5 PPBV CAL.MIX	AP2653	08/11/2025	09/13/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 08/20/2025

FROM 29.00000psi of A1117 + 1.00000psi of AP2650 = Final Quantity: 30.000 psi

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2396	TO-15 15 PPBV CAL MIX	AP2654	08/11/2025	09/13/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 08/20/2025

FROM 1455.00000SCCM of A1117 + 45.00000SCCM of A1139 = Final Quantity: 30.000 psi

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Air STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
47	Internal Standard/Surrogate Mix-80 ppbv	AP2655	08/13/2025	09/13/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 08/20/2025

FROM 2.40000psi of A1138 + 27.60000psi of A1117 = Final Quantity: 30.000 psi

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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

Rec: 07/14/25

CUSTOMGAS SOLUTIONS

1750 East Club Boulevard
Durham, NC 27704
Phone: (919) 220-2570
Fax: (919) 220-4540

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-Difluorbenzene	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

A1139

Certificate of Analysis

Customer:

ChemTech
284 Sheffield Street
Mountianside, 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-Dichlororethylene	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:



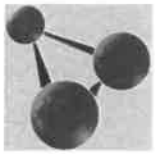
Date: 04/16/2025



*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.

Rec 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-Dichlororethylene	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.

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

Process Report

Order ID : Q3037

Date	Bottle ID	Lab Sample Number	InComing Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
09/09/2025	B2508049	Q3037-01	-10.8	10608	6 L	10640		C2508001	**VL042828.D** Seq :VL080725 TUNE : VL042823.D ICAL : VL042752.D CCAL : VL042824.D MB : VL042825.D

Canister Cleaning

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

Canister Batch : C2508001

Type of Canister : 6 L

Cleaning Date : 08/04/2025

Analyst : SAM

Oven Temperature : 125.0 c

Canister	Vaccum After Cleaning ("Hg)	Vaccum After Cleaning Date	Analysis Date	VAC 24Hr ("Hg)	Vaccum After 24hr Date	New Sample Number	QC Canister	File
10332	-30	08/05/2025	08/07/2025	-30	08/06/2025		10608	VL042828.D
10300	-30	08/05/2025	08/07/2025	-30	08/06/2025	Q2887-02	10608	VL042828.D
10608	-30	08/05/2025	08/07/2025	-30	08/06/2025	Q3037-01	10608	VL042828.D
10158	-30	08/05/2025	08/07/2025	-30	08/06/2025	Q2887-01	10608	VL042828.D
10445	-30	08/05/2025	08/07/2025	-30	08/06/2025		10608	VL042828.D
10595	-30	08/05/2025	08/07/2025	-30	08/06/2025		10608	VL042828.D
10320	-30	08/05/2025	08/07/2025	-30	08/06/2025	Q3039-01	10608	VL042828.D
10607	-30	08/05/2025	08/07/2025	-30	08/06/2025	Q2887-03	10608	VL042828.D

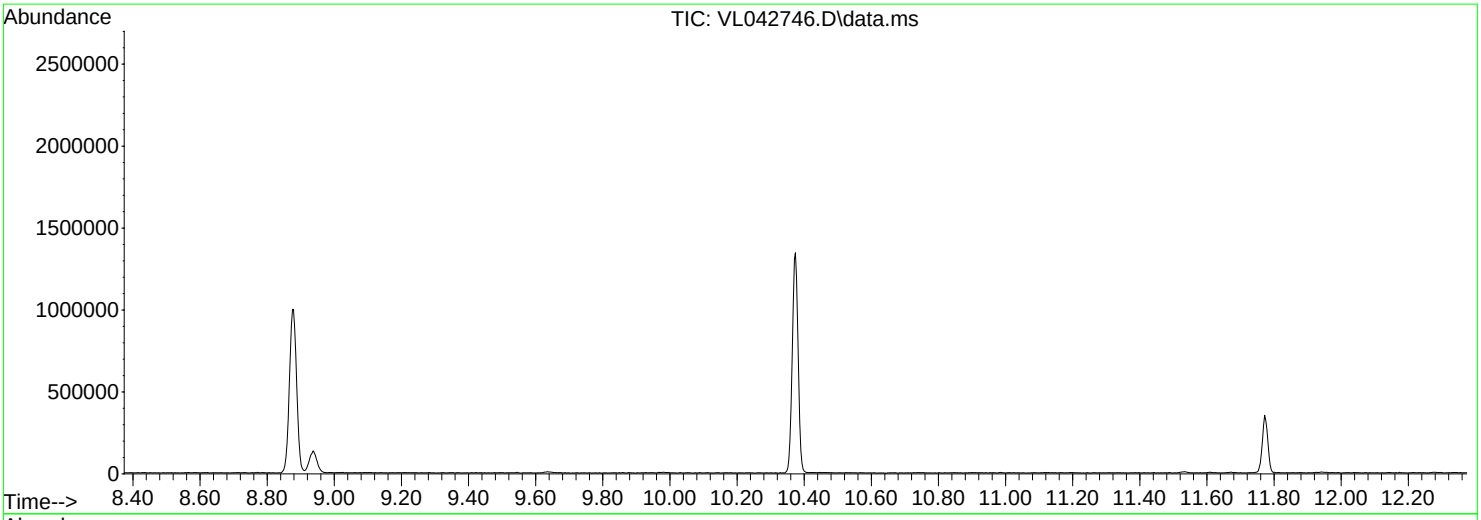
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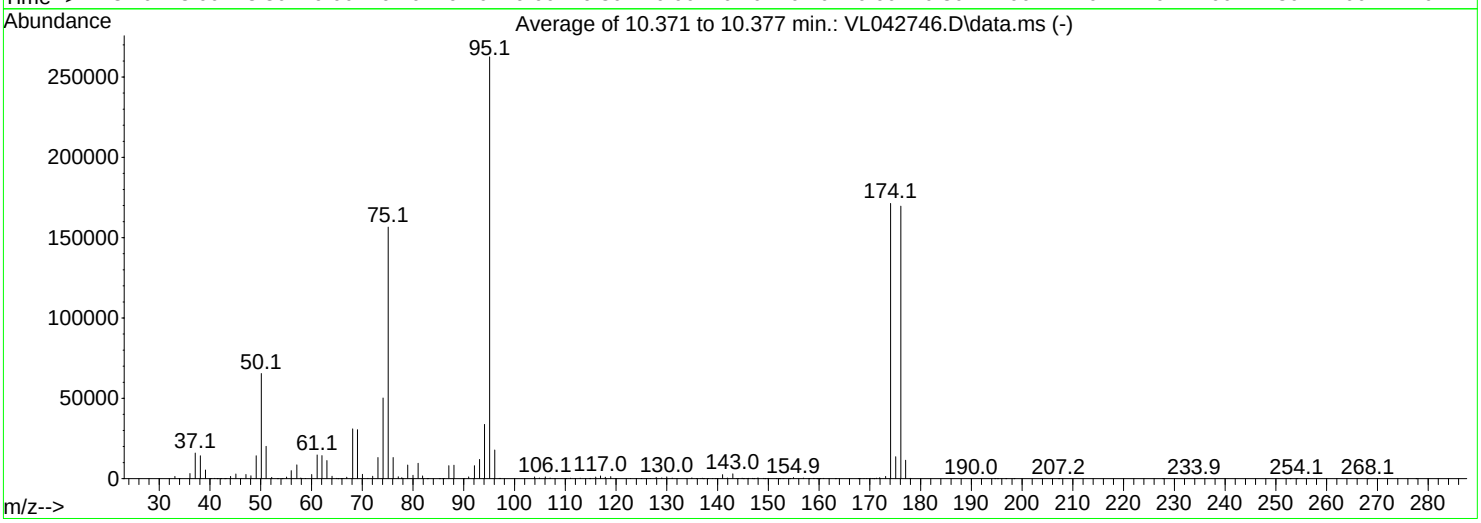
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Acq On : 23 Jul 2025 08:00
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

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_LFri 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

Response Factor Report MSVOA_L

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Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Thu Jul 24 05:24:41 2025
Response Via : Initial Calibration

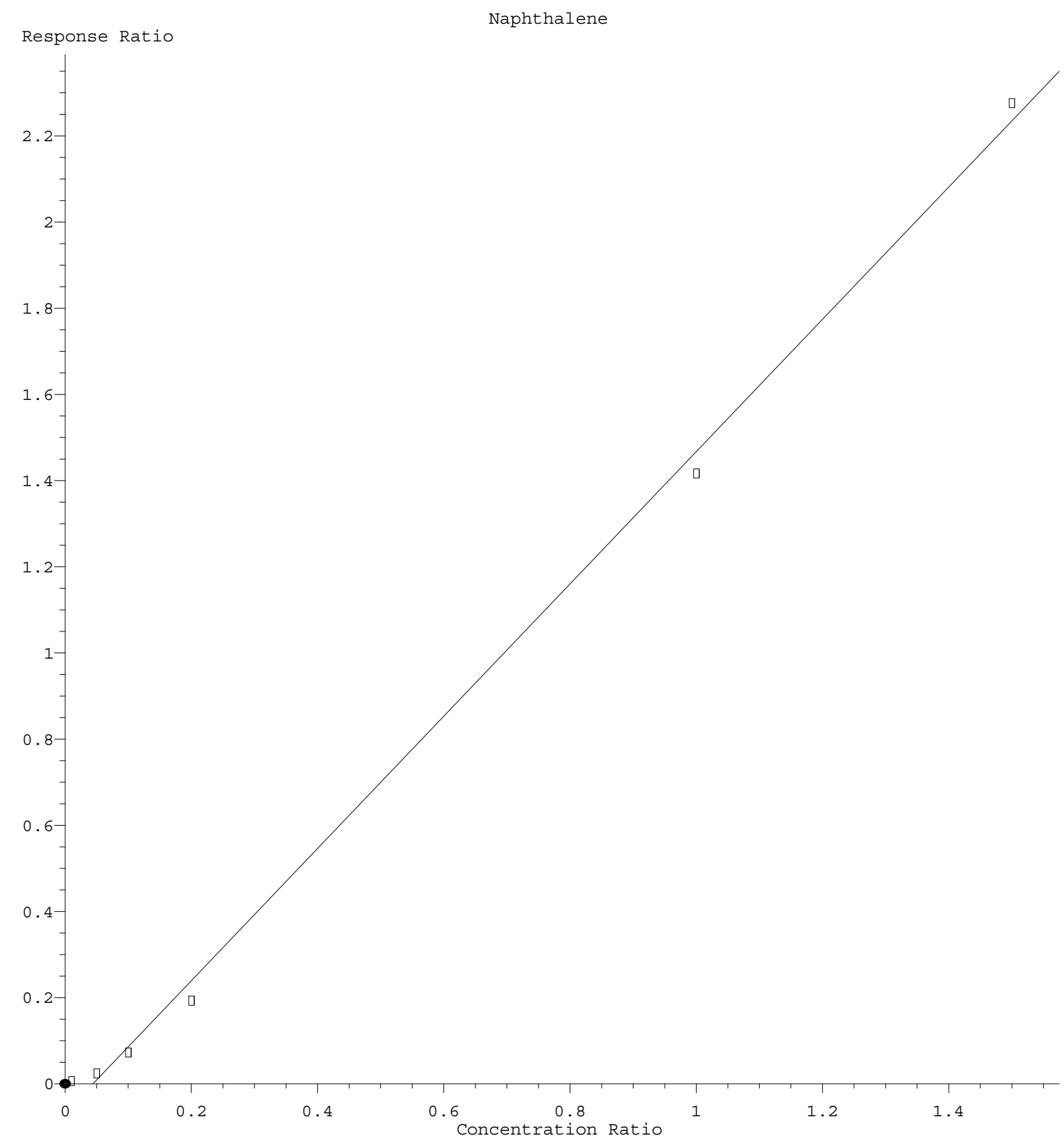
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		Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------								
2)	T	Dichlorodifluo...			1.468	1.339	1.377	1.198	1.229	1.322	8.34
3)		Chlorodifluoro...			1.890	1.757	1.772	1.625	1.567	1.722	7.41
4)		Chloromethane			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	Dichlorotetraf...			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

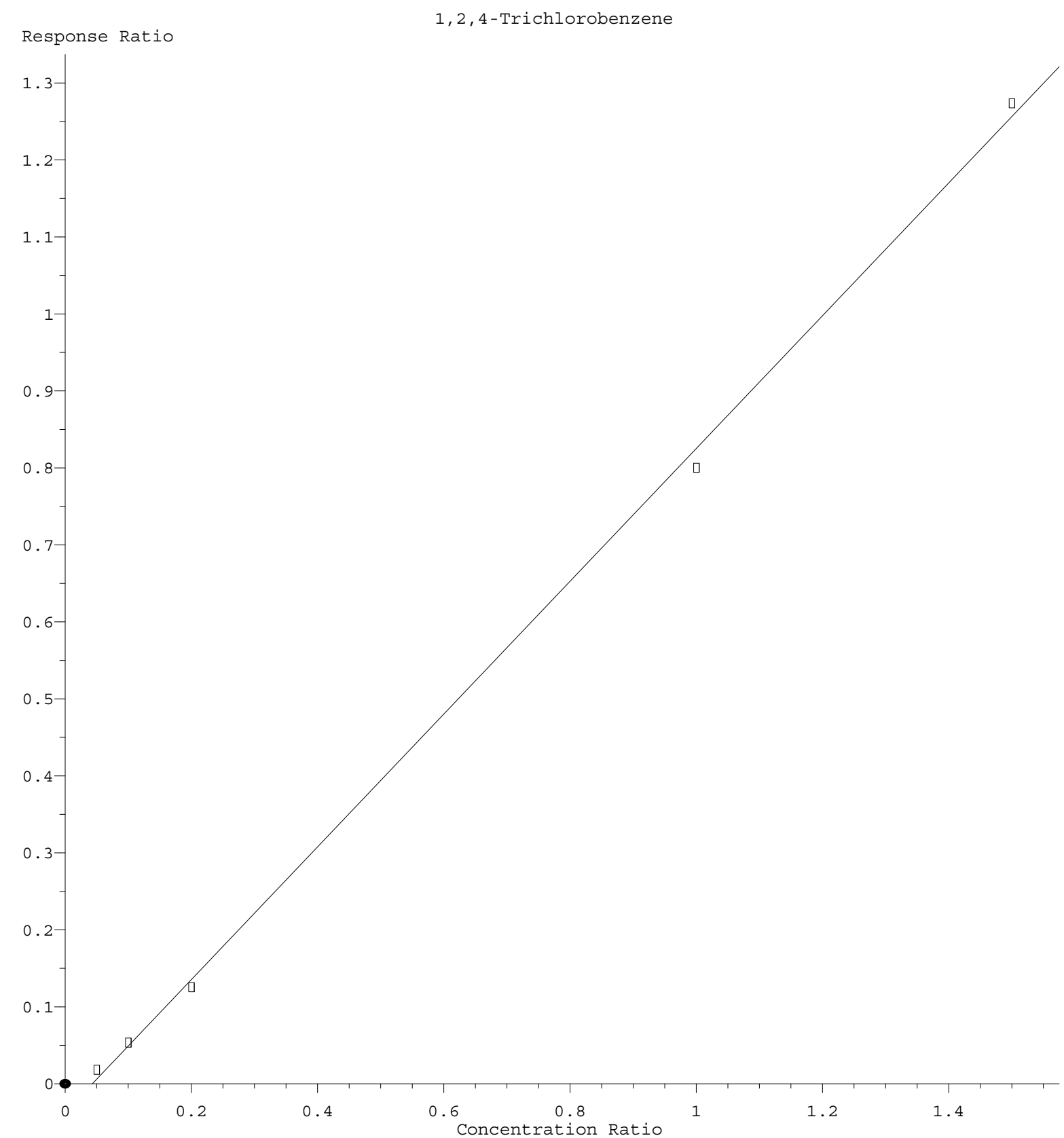
Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\
Method File : VL072325AIR.M

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
55)	I	Chlorobenzene-d5	----------ISTD----------								
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



Response = 1.535e+000 * Amt - 6.678e-002
Coef of Det (r^2) = 0.997757 Curve Fit: Linear
Method Name: Z:\cmsrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Calibration Table Last Updated: Thu Jul 24 05:24:41 2025



Response = 8.625e-001 * Amt - 3.751e-002
Coef of Det (r^2) = 0.999044 Curve Fit: Linear
Method Name: Q:\037VOCMSZ3\vmsrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Calibration Table Last Updated: Thu Jul 24 05:24:41 2025

Quantitation Report (QT Reviewed)

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

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 1
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

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	2.784	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

Quantitation Report (QT Reviewed)

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

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

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

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)
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

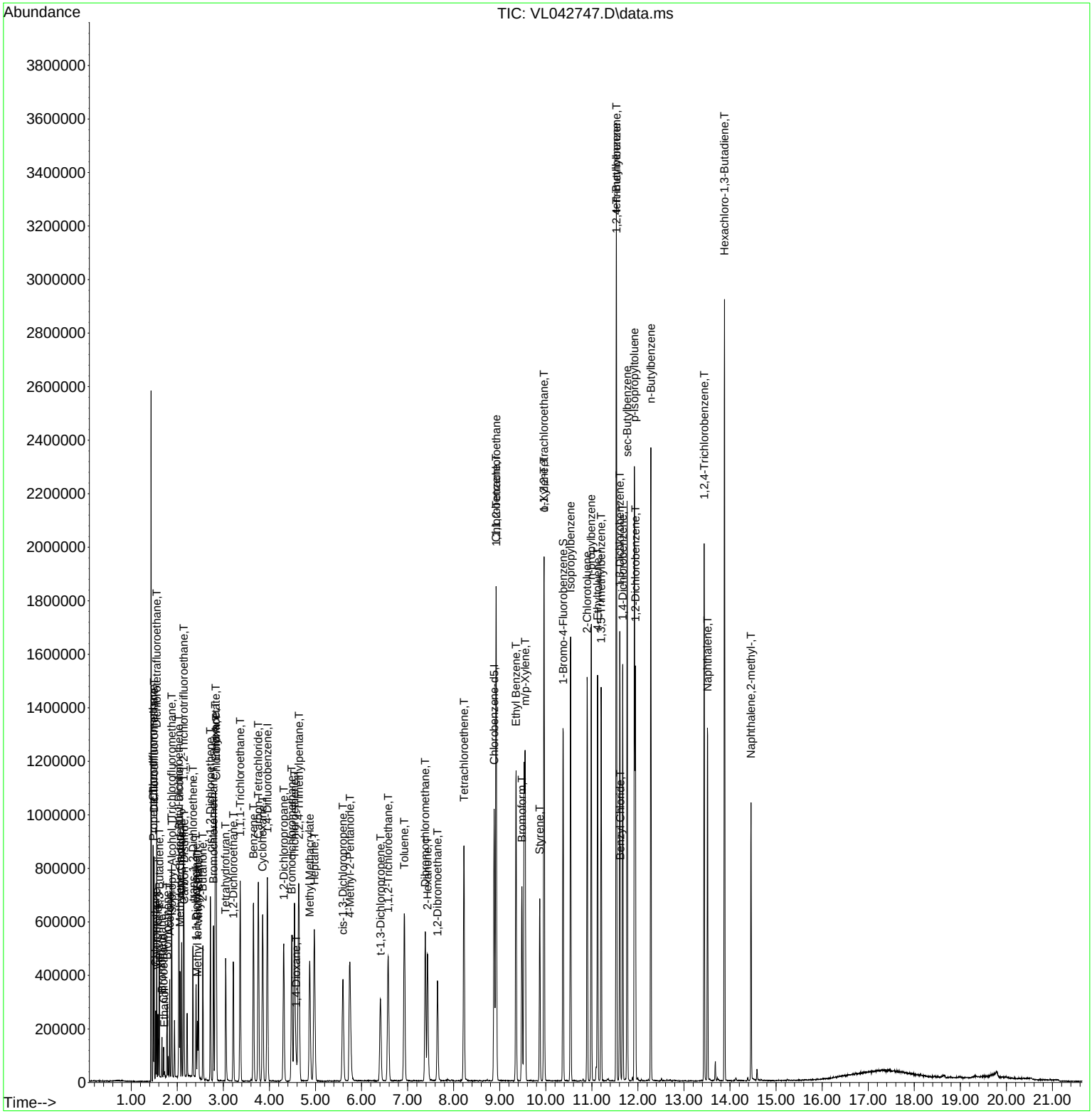
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

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

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

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


Abundance
TIC: VL042747.D\data.ms
Time-->
Hexachloro-1,3-Butadiene,T
1,2,4-Trichlorobenzene,T
Naphthalene,T
Naphthalene,2-methyl-,T
n-Butylbenzene
sec-Butylbenzene
p-Isopropyltoluene
1-Bromo-4-Fluorobenzene,S
Isopropylbenzene
Ethyl Benzene,T
m/p-Xylene,T
Styrene,T
Bromoform,T
Chlorobenzene-d5,I
Tetrachloroethene,T
1,2-Dibromoethane,T
t-1,3-Dichloropropene,T
1,1,2-Trichloroethane,T
Toluene,T
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Methyl Methacrylate
Heptane,T
1,2-Dichloropropane,T
1,4-Dioxane,T
Benzene,T
Cyclohexane,T
1,1-Trichloroethane,T
1,2-Dichloroethane-d4,S
Tetrahydrofuran,T
Bromodichloromethane,T
2-Chloroethylvinylether,T
Methyl t-Butyl Ether,T
2-Butanone,T
Chloroform,T
1,1,1-Trichloroethane,T
Carbon Tetrachloride,T
Dichlorodifluoromethane,T
Chloromethane,T
Vinyl Chloride,T
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane,T
Ethanol,T
Acrolein,T
Propanal,T
Acetone,T
Isopropyl Alcohol,T
Acetonitrile,T
Acrylonitrile,T
Dichlorofluoromethane,T
Propene,T
Freon 114,T
Methanol,T
Ethyl Ether,T
Carbon Disulfide,T
Methylene Chloride,T
Pentane,T
1,1-Dichloroethene,T
Ethanol,T
Trichlorofluoromethane,T
2-Propanol,T
1,1,2-Trichlorotrifluoroethane,T
Acetone,T
Acetonitrile,T
Acrylonitrile,T
Methylene Chloride,T
Pentane,T
Ethyl Ether,T
Methyl t-Butyl Ether,T
1,1-Dichloroethene,T
Carbon Disulfide,T
Freon 113,T
Propene,T
Freon 114,T
Methanol,T
Ethanol,T
Vinyl Chloride,T
1,3-Butadiene

Quantitation Report (QT Reviewed)

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

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
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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		

Quantitation Report (QT Reviewed)

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

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 1
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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)
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

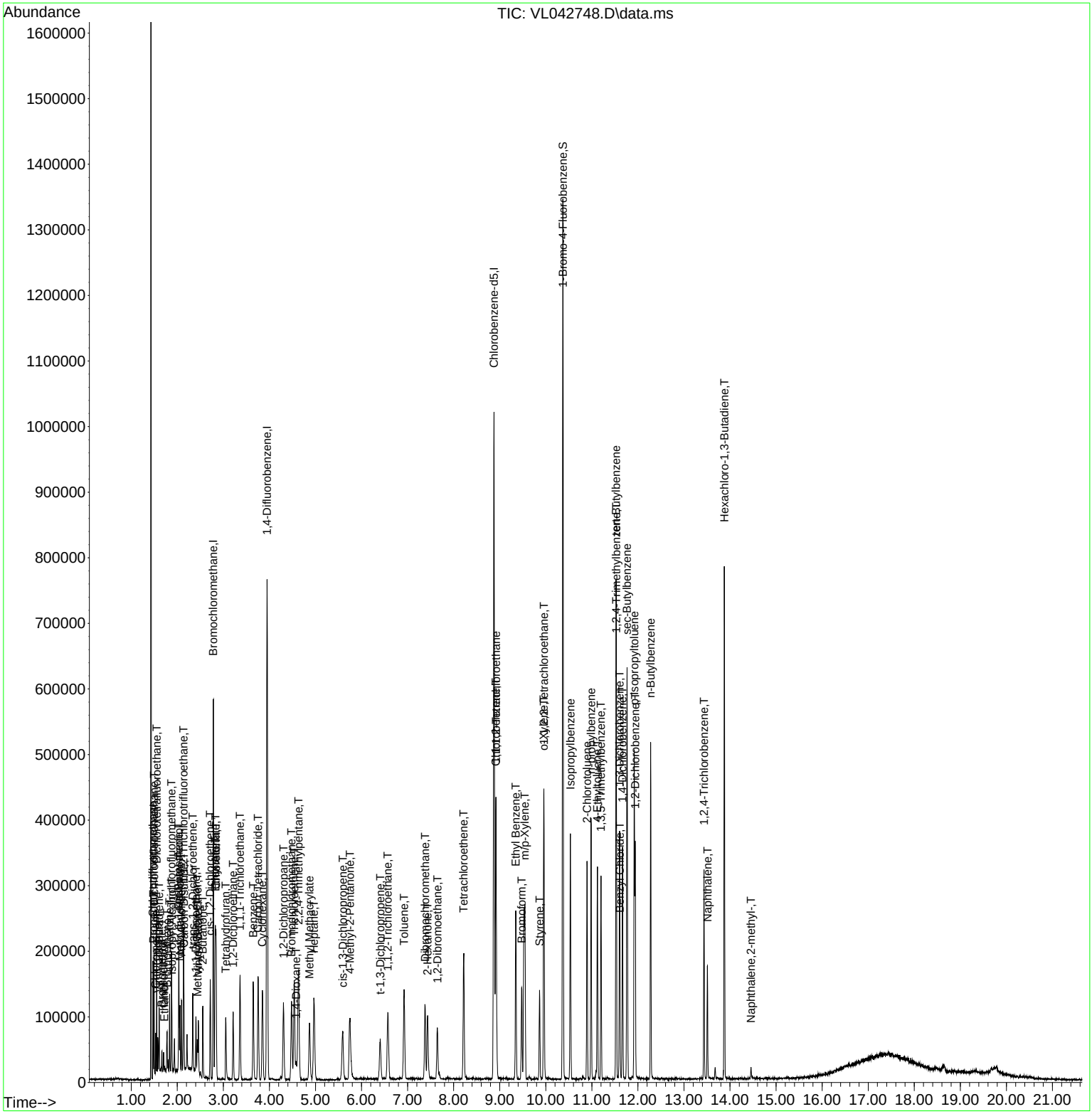
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
Data File : VL042748.D
Acq On : 23 Jul 2025 09:34
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

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
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED

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



Quantitation Report (QT Reviewed)

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

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
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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	2.784	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		

Quantitation Report (QT Reviewed)

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

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
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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)
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

Quantitation Report (QT Reviewed)

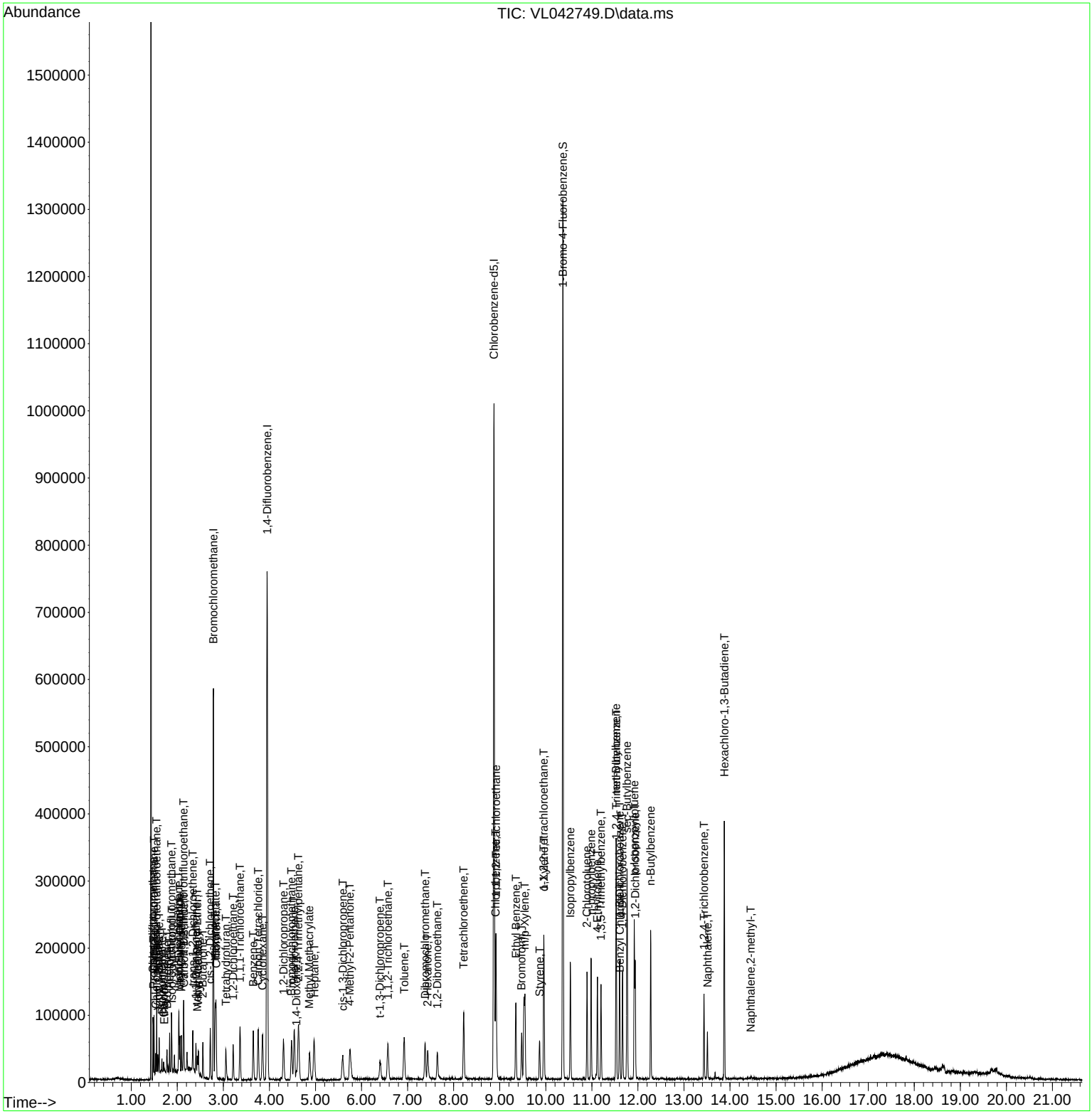
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
Data File : VL042749.D
Acq On : 23 Jul 2025 10:08
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

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
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

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



Quantitation Report (QT Reviewed)

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

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_LFri Aug
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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	2.784	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		

Quantitation Report (QT Reviewed)

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

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_LFri Aug
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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)
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

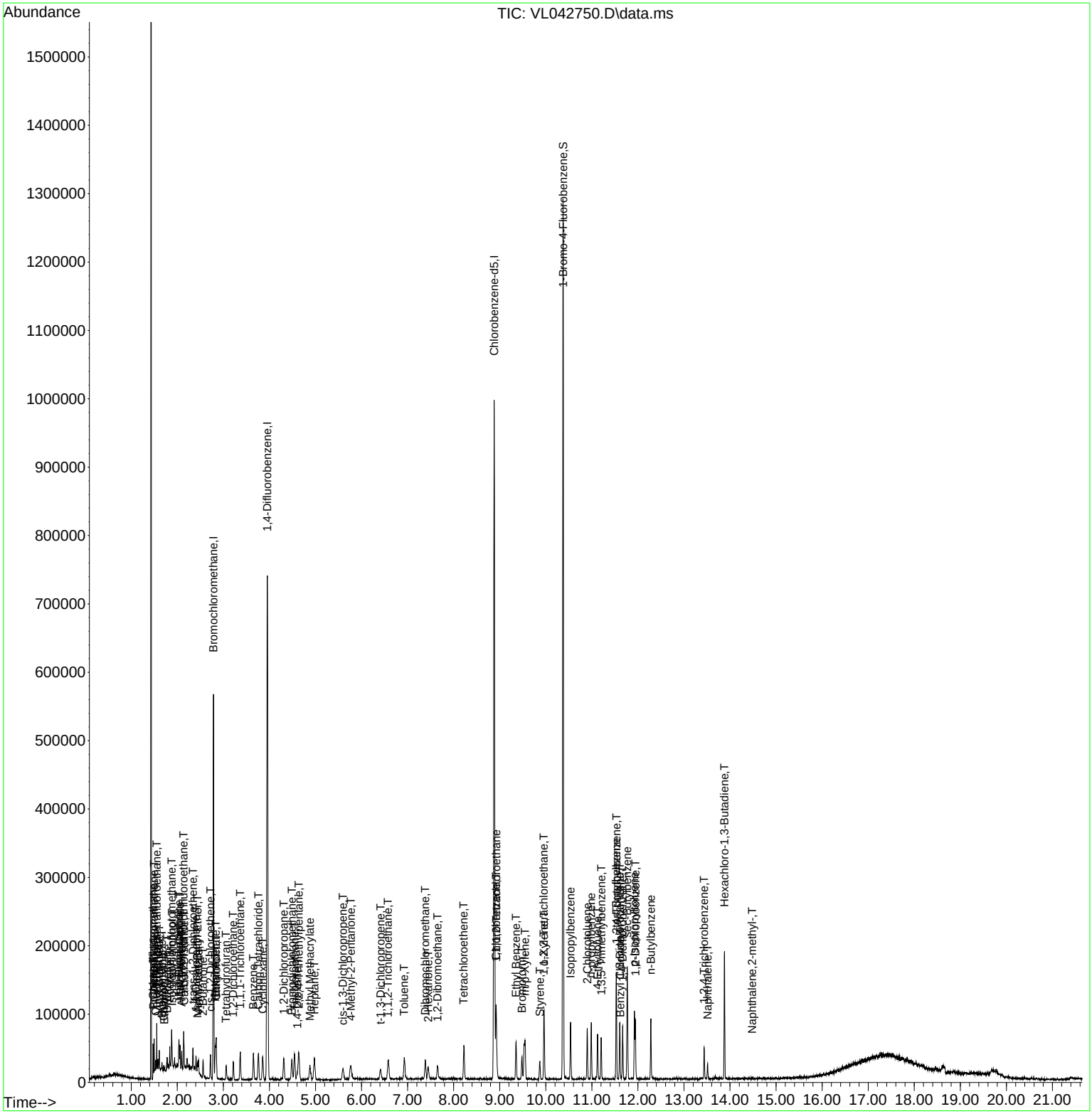
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Data File : VL042750.D
Acq On : 23 Jul 2025 10:42
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

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_LFri Aug
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED

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



Quantitation Report (QT Reviewed)

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

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_LFri Aug
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

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	2.784	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	

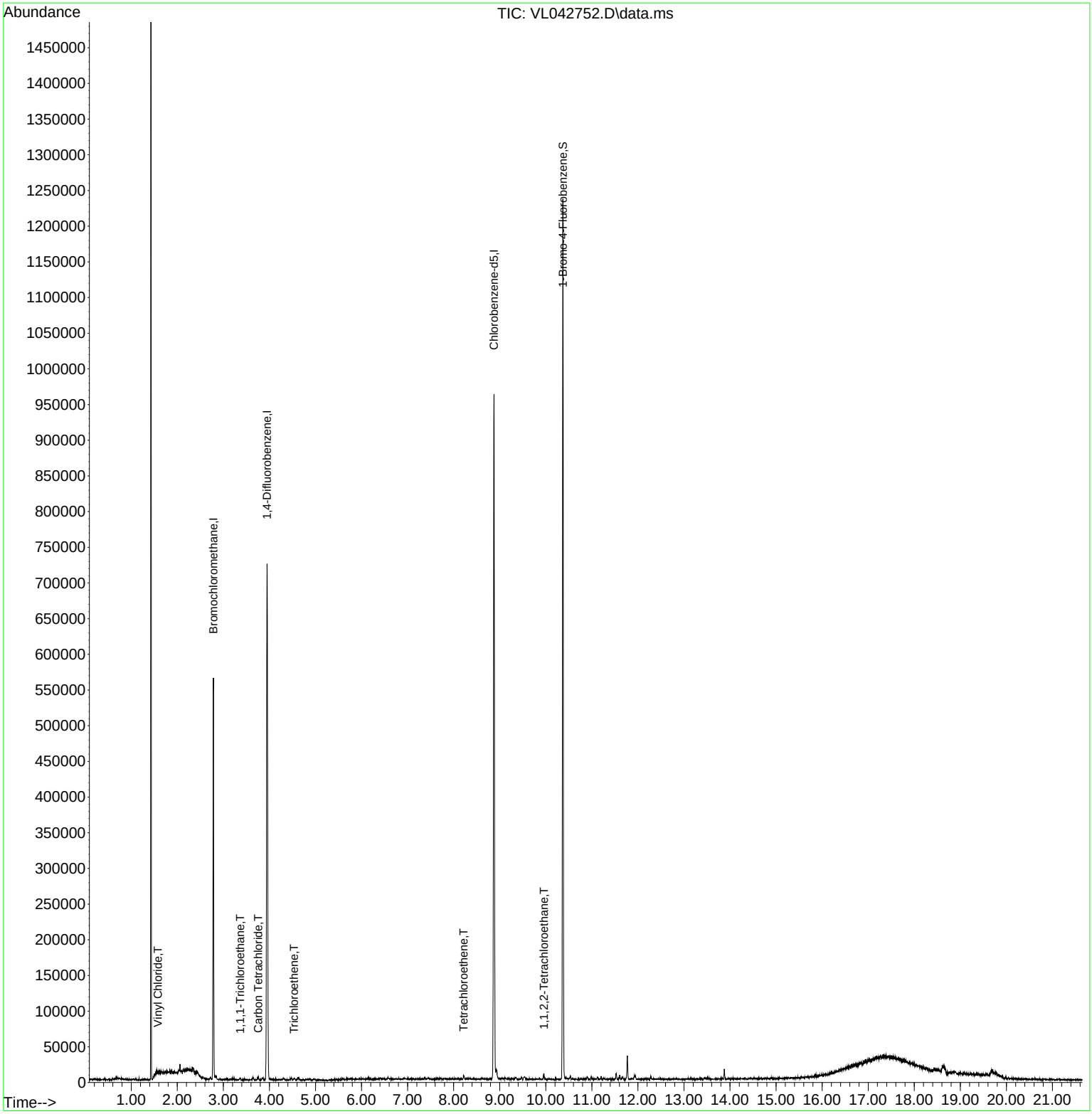
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

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_LFri Aug
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

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



Quantitation Report (QT Reviewed)

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

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
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

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	2.784	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

Quantitation Report (QT Reviewed)

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

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
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

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)
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

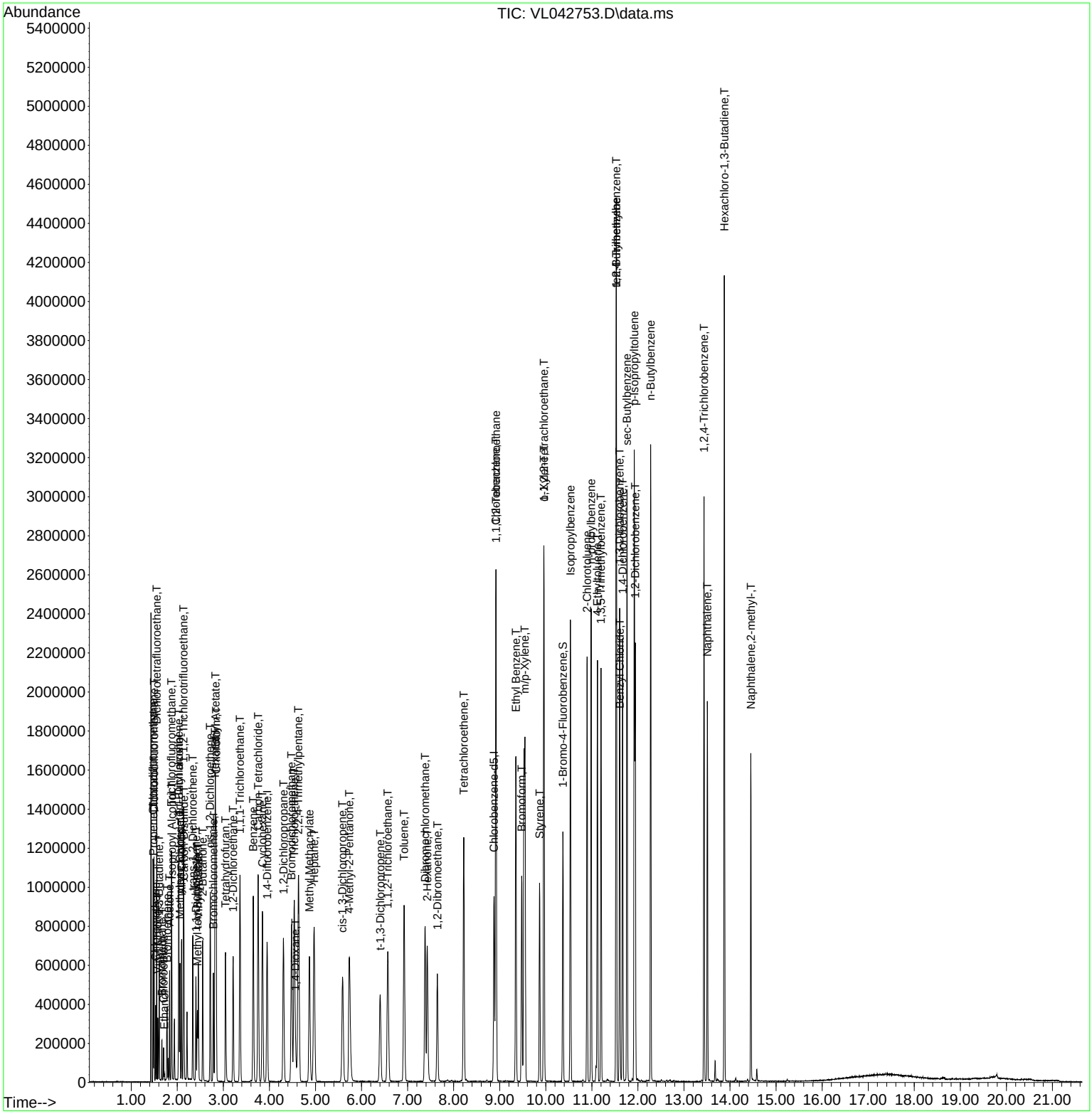
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

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
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

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



Quantitation Report (QT Reviewed)

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

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_LFri Aug
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

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	2.784	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

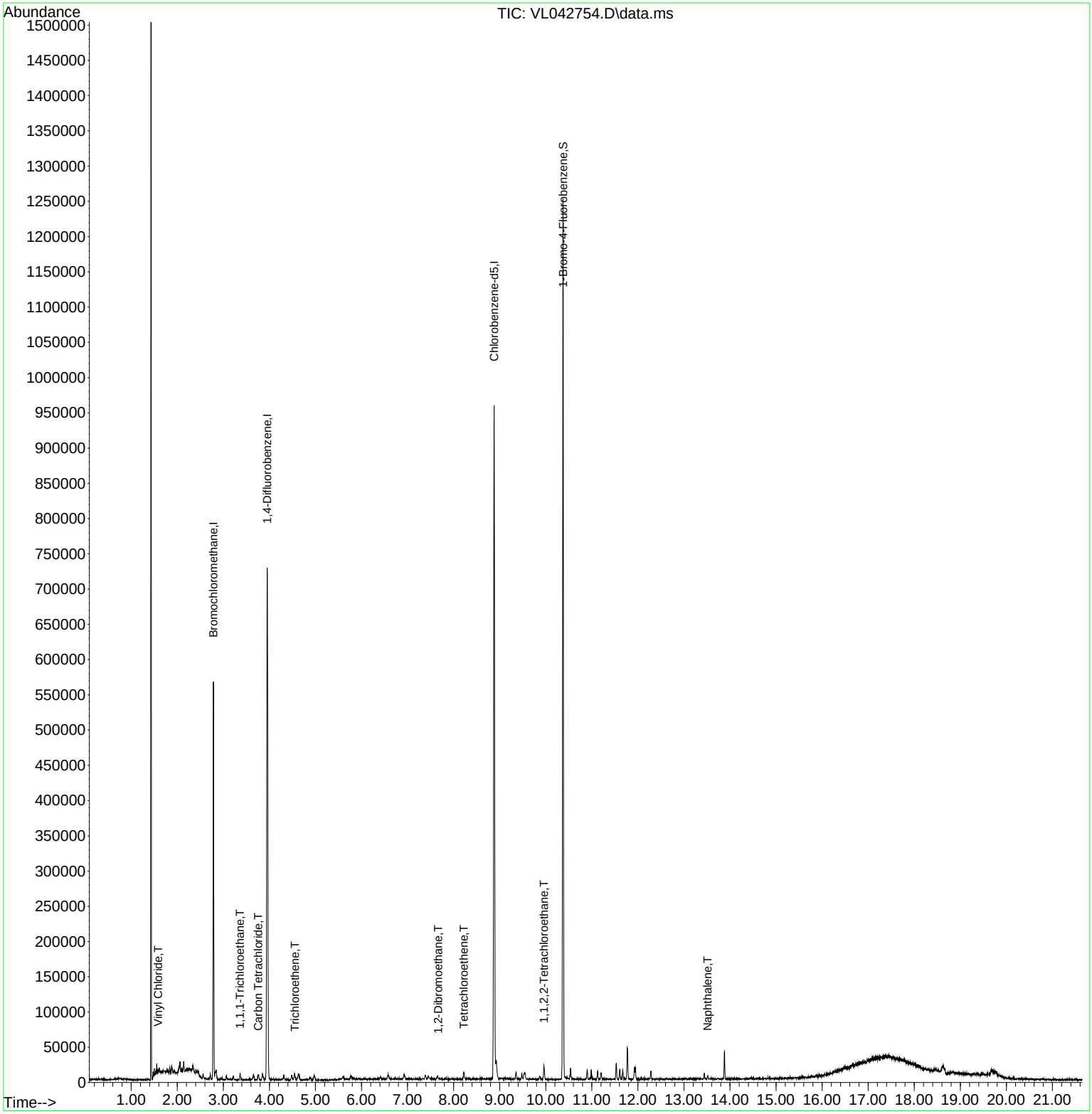
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
Data File : VL042754.D
Acq On : 23 Jul 2025 13:00
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

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_LFri Aug
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations APPROVED

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



Quantitation Report (QT Reviewed)

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

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
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

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	2.781	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

Quantitation Report (QT Reviewed)

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

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
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

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)
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

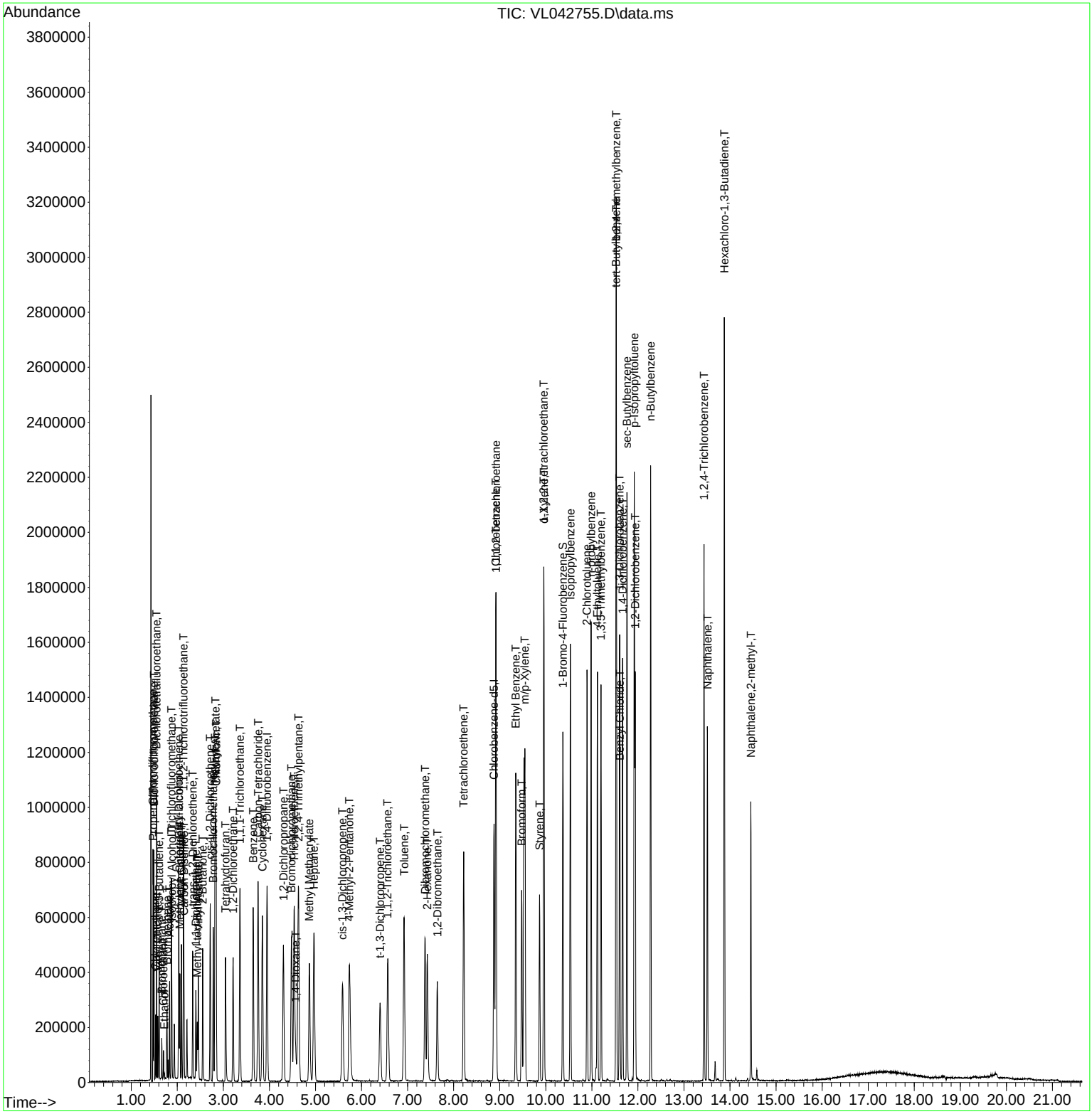
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

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
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

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



Evaluate Continuing Calibration Report

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_LFri 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

Evaluate Continuing Calibration Report

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_LFri 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

Evaluate Continuing Calibration Report

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_LFri 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

Evaluate Continuing Calibration Report

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_LFri 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

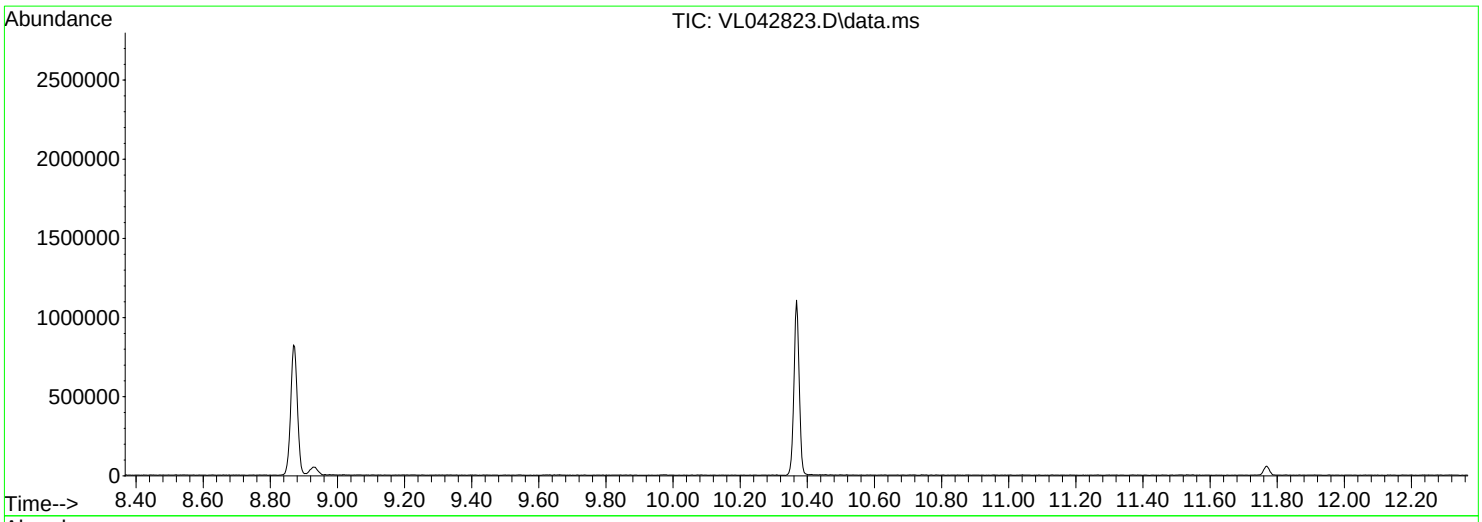
BFB

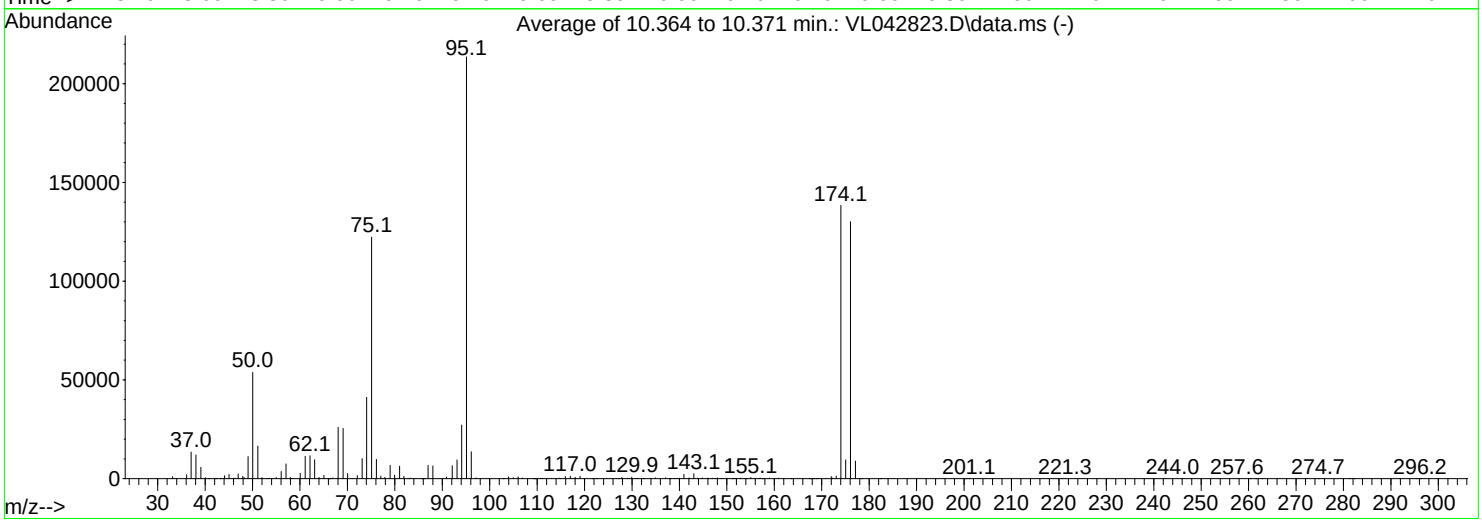
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080725\
Data File : VL042823.D
Acq On : 07 Aug 2025 07:42
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

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_LFri Aug 26 06:05:16 2022
Last Update : Thu Jul 24 05:24:41 2025





AutoFind: Scans 3175, 3176, 3177; Background Corrected with Scan 3162

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	25.2	53840	PASS
75	95	30	66	57.2	122251	PASS
95	95	100	100	100.0	213589	PASS
96	95	5	9	6.4	13653	PASS
173	174	0.00	2	1.0	1322	PASS
174	95	50	120	64.8	138379	PASS
175	174	4	9	6.9	9520	PASS
176	174	93	101	94.0	130096	PASS
177	176	5	9	6.8	8909	PASS

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080725\
Data File : VL042824.D
Acq On : 07 Aug 2025 08:27
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 08 01:12:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 08/08/2025
Supervised By :Mahesh Dadoda 08/11/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.780	49	152875	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	409968	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	350615	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	289682	10.433	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 104.300%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.495	85	198002	9.796	ppbv	99
3) Chlorodifluoromethane	1.473	51	259636	9.861	ppbv	99
4) Chloromethane	1.531	50	81057	9.913	ppbv	99
5) Vinyl Chloride	1.576	62	69415	8.592	ppbv	97
6) Bromomethane	1.664	94	29967	9.594	ppbv	100
7) Chloroethane	1.703	64	29394	9.416	ppbv	97
8) Dichlorotetrafluoroethane	1.550	85	160036	9.627	ppbv	99
9) Propene	1.482	41	84574	8.838	ppbv	100
10) Heptane	4.965	43	266506	10.328	ppbv	99
11) Trichlorofluoromethane	1.874	101	202046	9.697	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.136	101	154906	9.784	ppbv	99
13) Ethanol	1.719	45	6698	8.461	ppbv	96
14) Bromoethene	1.777	108	54097	9.650	ppbv	99
15) Acetone	1.832	43	168703	7.992	ppbv	98
16) 1,3-Butadiene	1.605	39	83330	9.255	ppbv	99
17) tert-Butyl alcohol	2.036	59	172327	9.051	ppbv	98
18) 1,1-Dichloroethene	2.029	96	64871	9.068	ppbv	99
19) Isopropyl Alcohol	1.881	45	103955	9.267	ppbv	98
20) Methylene Chloride	2.055	84	58299	8.764	ppbv	97
21) Allyl Chloride	2.091	41	127987	9.837	ppbv	99
22) trans-1,2-Dichloroethene	2.337	96	75249	9.778	ppbv	92
23) Vinyl Acetate	2.457	43	276849	10.818	ppbv	99
24) 1,1-Dichloroethane	2.405	63	157224	9.953	ppbv	100
25) Ethyl Acetate	2.829	43	470307	10.065	ppbv	99
26) Hexane	2.819	57	199330	9.725	ppbv	96
27) Carbon Disulfide	2.146	76	181651	10.352	ppbv	97
28) Methyl tert-Butyl Ether	2.437	73	96685	9.985	ppbv	99
29) Chloroform	2.842	83	325268	10.269	ppbv	96
30) Cyclohexane	3.845	84	162874	9.369	ppbv	94
31) cis-1,2-Dichloroethene	2.712	61	193169	9.171	ppbv	94
32) 1,1,1-Trichloroethane	3.360	97	310277	9.404	ppbv	99
34) 2-Butanone	2.551	43	304692	10.492	ppbv	99
35) Carbon Tetrachloride	3.751	117	332414	10.916	ppbv	98
36) Benzene	3.648	78	396745	10.211	ppbv	98
37) 1,2-Dichloroethane	3.211	62	246983	10.552	ppbv	99
38) Trichloroethene	4.538	130	179403	9.611	ppbv	95
39) 1,2-Dichloropropane	4.298	63	147118	10.258	ppbv	99
40) 1,4-Dioxane	4.564	88	63053	9.432	ppbv #	93
41) Tetrahydrofuran	3.046	42	159238	10.776	ppbv	96
42) Bromodichloromethane	4.476	83	338249	11.096	ppbv	95
43) Methyl Methacrylate	4.868	69	144407	10.456	ppbv	98
44) 2,2,4-Trimethylpentane	4.628	57	693154	10.945	ppbv	98
45) t-1,3-Dichloropropene	6.399	75	156600	10.112	ppbv #	89

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080725\
Data File : VL042824.D
Acq On : 07 Aug 2025 08:27
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 08 01:12:22 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

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 08/08/2025
Supervised By :Mahesh Dadoda 08/11/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.587	75	202323	10.309	ppbv		98
47) 1,1,2-Trichloroethane	6.567	97	159326	10.421	ppbv		96
48) Dibromochloromethane	7.376	129	272360	11.222	ppbv		99
49) Bromoform	9.474	173	244228	11.540	ppbv		99
50) 4-Methyl-2-Pentanone	5.735	43	407716	10.899	ppbv		97
51) 2-Hexanone	7.425	43	326255	11.541	ppbv	#	96
52) Tetrachloroethene	8.215	164	145788	9.052	ppbv		98
53) Toluene	6.920	91	432808m	10.373	ppbv		
54) 1,2-Dibromoethane	7.642	107	233457	10.808	ppbv		98
56) 1,1,1,2-Tetrachloroethane	8.917	131	211408	11.597	ppbv		99
57) Chlorobenzene	8.914	112	371449	10.947	ppbv		97
58) Ethyl Benzene	9.348	91	615869	11.123	ppbv		98
59) m/p-Xylene	9.542	91	1060554m	23.967	ppbv		
60) o-Xylene	9.956	91	524632	11.865	ppbv		100
61) Styrene	9.865	104	207723	11.168	ppbv		99
62) Isopropylbenzene	10.532	105	750824	11.512	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.956	83	318926	11.235	ppbv		99
64) n-propylbenzene	10.982	120	203161	11.948	ppbv		99
65) tert-Butylbenzene	11.526	119	685288	11.829	ppbv		99
66) Benzyl Chloride	11.610	91	67529	14.199	ppbv		98
67) sec-Butylbenzene	11.762	105	963413	11.692	ppbv		99
69) p-Isopropyltoluene	11.921	119	822590	12.243	ppbv		100
70) n-Butylbenzene	12.277	91	841132	12.960	ppbv		99
71) 2-Chlorotoluene	10.895	91	575639	11.510	ppbv		99
72) 4-Ethyltoluene	11.118	105	644350	12.202	ppbv		99
73) 1,3,5-Trimethylbenzene	11.199	105	541834	12.462	ppbv		100
74) 1,2,4-Trimethylbenzene	11.532	105	608776	12.834	ppbv		92
75) 1,3-Dichlorobenzene	11.600	146	386529	11.624	ppbv		99
76) 1,4-Dichlorobenzene	11.665	146	391456	12.030	ppbv		99
77) 1,2-Dichlorobenzene	11.940	146	380829	11.653	ppbv		99
78) Hexachloro-1,3-Butadiene	13.876	225	302640	10.231	ppbv		99
79) Naphthalene	13.507	128	563249	10.903	ppbv		100
80) Naphthalene,2-methyl-	14.452	142	203706	8.150	ppbv		98
81) 1,2,4-Trichlorobenzene	13.435	180	313518	10.802	ppbv		100

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

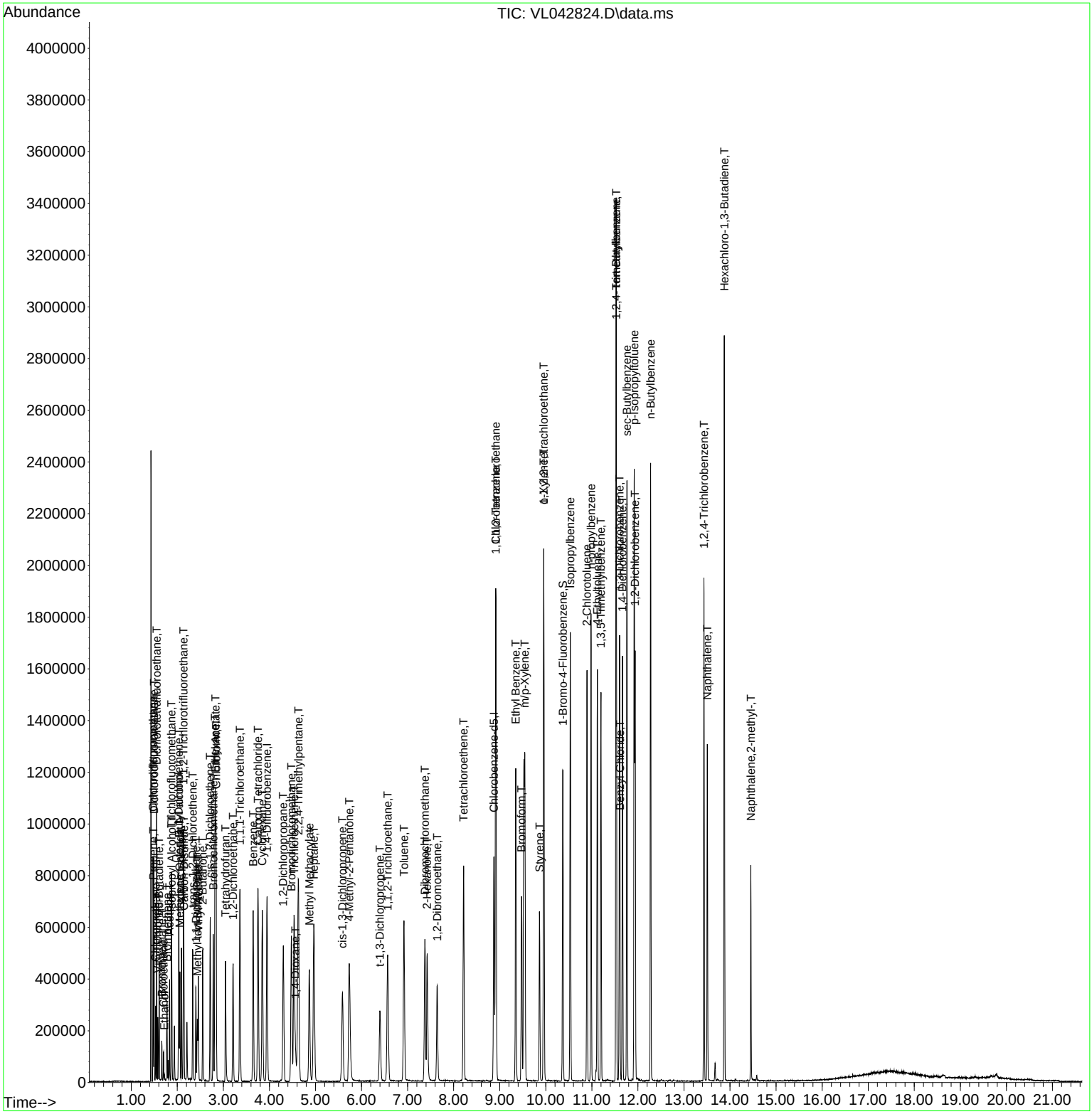
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080725\
Data File : VL042824.D
Acq On : 07 Aug 2025 08:27
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 08 01:12:22 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

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/08/2025
Supervised By :Mahesh Dadoda 08/11/2025



Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080725\
Data File : VL042824.D
Acq On : 07 Aug 2025 08:27
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Aug 08 01:12:22 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

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	96	0.00
2	T	Dichlorodifluoromethane	1.322	1.295	2.0	104	0.00
3		Chlorodifluoromethane	1.722	1.698	1.4	100	0.00
4		Chloromethane	0.535	0.530	0.9	105	0.00
5	T	Vinyl Chloride	0.528	0.454	14.0	106	0.00
6	T	Bromomethane	0.204	0.196	3.9	106	0.00
7		Chloroethane	0.204	0.192	5.9	105	0.00
8	T	Dichlorotetrafluoroethane	1.087	1.047	3.7	103	0.00
9	T	Propene	0.626	0.553	11.7	90	0.00
10	T	Heptane	1.688	1.743	-3.3	103	0.00
11	T	Trichlorofluoromethane	1.363	1.322	3.0	104	0.00
12	T	1,1,2-Trichlorotrifluoroeth	1.036	1.013	2.2	104	0.00
13		Ethanol	0.083	0.044#	47.0#	84	0.00
14	T	Bromoethene	0.367	0.354	3.5	101	0.00
15	T	Acetone	1.381	1.104	20.1	106	0.00
16	T	1,3-Butadiene	0.589	0.545	7.5	103	0.00
17		tert-Butyl alcohol	1.245	1.127	9.5	93	0.00
18	T	1,1-Dichloroethene	0.468	0.424	9.4	101	0.00
19	T	Isopropyl Alcohol	0.734	0.680	7.4	99	0.00
20	T	Methylene Chloride	0.435	0.381	12.4	109	0.00
21	T	Allyl Chloride	0.851	0.837	1.6	101	0.00
22	T	trans-1,2-Dichloroethene	0.503	0.492	2.2	103	0.00
23	T	Vinyl Acetate	1.674	1.811	-8.2	102	0.00
24	T	1,1-Dichloroethane	1.033	1.028	0.5	105	0.00
25	T	Ethyl Acetate	3.056	3.076	-0.7	100	0.00
26	T	Hexane	1.341	1.304	2.8	98	0.00
27	T	Carbon Disulfide	1.148	1.188	-3.5	105	0.00
28	T	Methyl tert-Butyl Ether	0.633	0.632	0.2	109	0.00
29	T	Chloroform	2.072	2.128	-2.7	107	0.00
30	T	Cyclohexane	1.137	1.065	6.3	91	0.00
31	T	cis-1,2-Dichloroethene	1.378	1.264	8.3	93	0.00
32	T	1,1,1-Trichloroethane	2.158	2.030	5.9	100	0.00
33	I	1,4-Difluorobenzene	1.000	1.000	0.0	89	0.00
34	T	2-Butanone	0.708	0.743	-4.9	99	0.00
35	T	Carbon Tetrachloride	0.743	0.811	-9.2	102	0.00
36	T	Benzene	0.948	0.968	-2.1	96	0.00
37	T	1,2-Dichloroethane	0.571	0.602	-5.4	99	0.00
38	T	Trichloroethene	0.455	0.438	3.7	95	0.00
39	T	1,2-Dichloropropane	0.350	0.359	-2.6	98	-0.01
40	T	1,4-Dioxane	0.163	0.154	5.5	96	-0.02
41	T	Tetrahydrofuran	0.360	0.388	-7.8	95	0.00
42	T	Bromodichloromethane	0.744	0.825	-10.9	101	0.00
43		Methyl Methacrylate	0.337	0.352	-4.5	90	0.00
44	T	2,2,4-Trimethylpentane	1.545	1.691	-9.4	101	0.00
45	T	t-1,3-Dichloropropene	0.378	0.382	-1.1	84	-0.01
46	T	cis-1,3-Dichloropropene	0.479	0.494	-3.1	86	0.00
47	T	1,1,2-Trichloroethane	0.373	0.389	-4.3	99	-0.01
48	T	Dibromochloromethane	0.592	0.664	-12.2	98	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080725\
Data File : VL042824.D
Acq On : 07 Aug 2025 08:27
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
LabSampleId : VSTDCCC010

Quant Time: Aug 08 01:12:22 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

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	100	0.00
50	T	4-Methyl-2-Pentanone	0.912	0.995	-9.1	98	0.00
51	T	2-Hexanone	0.690	0.796	-15.4	97	0.00
52	T	Tetrachloroethene	0.393	0.356	9.4	93	0.00
53	T	Toluene	1.018	1.056	-3.7	92	0.00
54	T	1,2-Dibromoethane	0.527	0.569	-8.0	98	0.00
55	I	Chlorobenzene-d5	1.000	1.000	0.0	83	0.00
56		1,1,1,2-Tetrachloroethane	0.520	0.603	-16.0	104	0.00
57	T	Chlorobenzene	0.968	1.059	-9.4	100	0.00
58	T	Ethyl Benzene	1.579	1.757	-11.3	94	0.00
59	T	m/p-Xylene	1.262	1.512	-19.8	102	0.00
60	T	o-Xylene	1.261	1.496	-18.6	101	0.00
61	T	Styrene	0.531	0.592	-11.5	88	0.00
62		Isopropylbenzene	1.860	2.141	-15.1	99	0.00
63	T	1,1,2,2-Tetrachloroethane	0.810	0.910	-12.3	109	0.00
64		n-propylbenzene	0.485	0.579	-19.4	103	0.00
65		tert-Butylbenzene	1.652	1.955	-18.3	101	0.00
66	T	Benzyl Chloride	0.136	0.193	-41.9#	101	0.00
67		sec-Butylbenzene	2.350	2.748	-16.9	103	0.00
68	S	1-Bromo-4-Fluorobenzene	0.792	0.826	-4.3	86	0.00
69		p-Isopropyltoluene	1.916	2.346	-22.4	101	0.00
70		n-Butylbenzene	1.851	2.399	-29.6	103	0.00
71		2-Chlorotoluene	1.426	1.642	-15.1	98	0.00
72	T	4-Ethyltoluene	1.506	1.838	-22.0	100	0.00
73	T	1,3,5-Trimethylbenzene	1.240	1.545	-24.6	101	0.00
74	T	1,2,4-Trimethylbenzene	1.353	1.736	-28.3	104	0.00
75	T	1,3-Dichlorobenzene	0.948	1.102	-16.2	103	0.00
76	T	1,4-Dichlorobenzene	0.928	1.116	-20.3	104	0.00
77	T	1,2-Dichlorobenzene	0.932	1.086	-16.5	106	0.00
78	T	Hexachloro-1,3-Butadiene	0.844	0.863	-2.3	101	0.00
79	T	Naphthalene	0.958	1.606	-67.6#	94	0.00
80	T	Naphthalene,2-methyl-	0.326	0.581	-78.2#	70	0.00
81	T	1,2,4-Trichlorobenzene	0.635	0.894	-40.8#	93	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080725\
Data File : VL042825.D
Acq On : 07 Aug 2025 09:53
Operator : SY/MD
Sample : VL0807ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0807ABL01

Quant Time: Aug 08 01:13:47 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

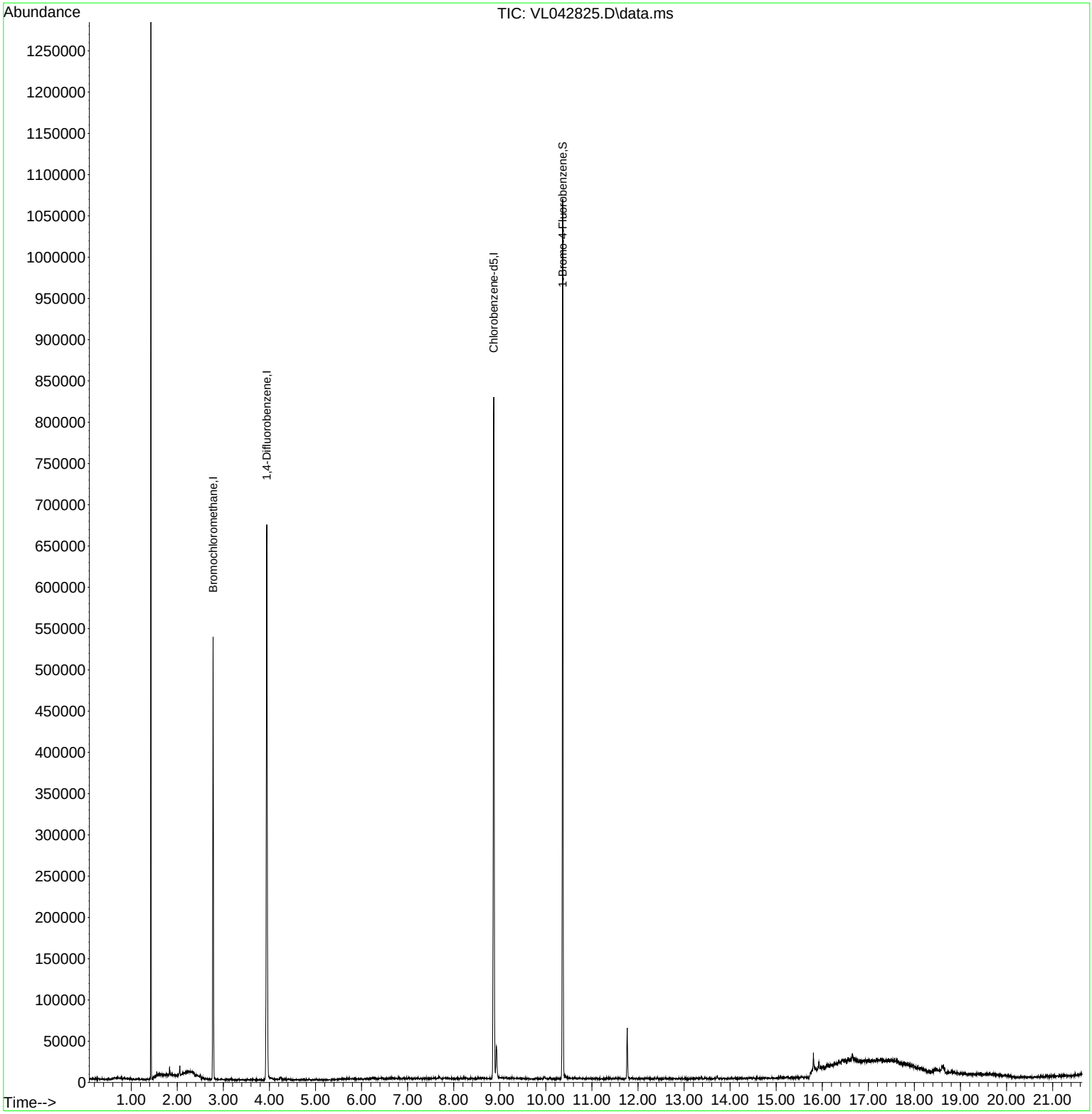
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.777	49	143339	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.943	114	368987	10.000	ppbv	-0.01
55) Chlorobenzene-d5	8.869	117	317212	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.364	95	239316	9.526	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 95.300%			
Target Compounds						Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080725\
Data File : VL042825.D
Acq On : 07 Aug 2025 09:53
Operator : SY/MD
Sample : VL0807ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0807ABL01

Quant Time: Aug 08 01:13:47 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



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080725\
Data File : VL042826.D
Acq On : 07 Aug 2025 10:28
Operator : SY/MD
Sample : VL0807ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 08 01:14:07 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 05:24:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL0807ABS01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 08/08/2025
Supervised By :Mahesh Dadoda 08/11/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.781	49	163078	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	435612	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	401123	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	317585	9.998	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.000%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	221327	10.265	ppbv	100
3) Chlorodifluoromethane	1.473	51	282700	10.065	ppbv	99
4) Chloromethane	1.531	50	91182	10.453	ppbv	96
5) Vinyl Chloride	1.576	62	75928	8.810	ppbv	96
6) Bromomethane	1.664	94	34195	10.263	ppbv	97
7) Chloroethane	1.703	64	31294	9.398	ppbv	92
8) Dichlorotetrafluoroethane	1.551	85	178331	10.057	ppbv	95
9) Propene	1.483	41	89987	8.815	ppbv	99
10) Heptane	4.968	43	287803	10.456	ppbv	98
11) Trichlorofluoromethane	1.874	101	225426	10.143	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.136	101	172568	10.217	ppbv	100
13) Ethanol	1.719	45	8069	9.704	ppbv	97
14) Bromoethene	1.780	108	58076	9.712	ppbv	98
15) Acetone	1.832	43	187111	8.309	ppbv	99
16) 1,3-Butadiene	1.606	39	94575	9.846	ppbv	98
17) tert-Butyl alcohol	2.036	59	189179	9.315	ppbv	99
18) 1,1-Dichloroethene	2.030	96	72759	9.534	ppbv	93
19) Isopropyl Alcohol	1.881	45	112862	9.431	ppbv	96
20) Methylene Chloride	2.059	84	63646	8.969	ppbv	93
21) Allyl Chloride	2.091	41	140315	10.110	ppbv	99
22) trans-1,2-Dichloroethene	2.337	96	84334	10.273	ppbv	97
23) Vinyl Acetate	2.457	43	296210	10.850	ppbv	99
24) 1,1-Dichloroethane	2.405	63	171053	10.151	ppbv	99
25) Ethyl Acetate	2.826	43	515118	10.335	ppbv	100
26) Hexane	2.819	57	218093	9.974	ppbv	96
27) Carbon Disulfide	2.146	76	200363	10.704	ppbv	97
28) Methyl tert-Butyl Ether	2.434	73	96403	9.333	ppbv	99
29) Chloroform	2.842	83	357107	10.569	ppbv	99
30) Cyclohexane	3.849	84	182334	9.832	ppbv	95
31) cis-1,2-Dichloroethene	2.716	61	209844	9.339	ppbv	96
32) 1,1,1-Trichloroethane	3.360	97	336916	9.573	ppbv	99
34) 2-Butanone	2.551	43	332116	10.763	ppbv	100
35) Carbon Tetrachloride	3.755	117	368245	11.381	ppbv	96
36) Benzene	3.648	78	433049	10.489	ppbv	99
37) 1,2-Dichloroethane	3.211	62	270211	10.865	ppbv	99
38) Trichloroethene	4.538	130	193655	9.764	ppbv	94
39) 1,2-Dichloropropane	4.305	63	161290	10.584	ppbv	98
40) 1,4-Dioxane	4.574	88	63503	8.940	ppbv #	93
41) Tetrahydrofuran	3.046	42	171292	10.909	ppbv	97
42) Bromodichloromethane	4.480	83	372605	11.504	ppbv	99
43) Methyl Methacrylate	4.865	69	158894	10.828	ppbv	99
44) 2,2,4-Trimethylpentane	4.629	57	761571	11.318	ppbv	97
45) t-1,3-Dichloropropene	6.402	75	169903	10.325	ppbv #	89

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080725\
Data File : VL042826.D
Acq On : 07 Aug 2025 10:28
Operator : SY/MD
Sample : VL0807ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 08 01:14:07 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 05:24:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL0807ABS01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 08/08/2025
Supervised By :Mahesh Dadoda 08/11/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.590	75	217713	10.441	ppbv		97
47) 1,1,2-Trichloroethane	6.571	97	177555	10.930	ppbv		98
48) Dibromochloromethane	7.377	129	297112	11.521	ppbv		99
49) Bromoform	9.477	173	272013	12.097	ppbv		99
50) 4-Methyl-2-Pentanone	5.732	43	450417	11.332	ppbv		98
51) 2-Hexanone	7.425	43	364529	12.136	ppbv	#	96
52) Tetrachloroethene	8.215	164	161270	9.424	ppbv		97
53) Toluene	6.920	91	472628	10.661	ppbv		100
54) 1,2-Dibromoethane	7.645	107	253899	11.062	ppbv		96
56) 1,1,1,2-Tetrachloroethane	8.917	131	232289	11.138	ppbv		99
57) Chlorobenzene	8.914	112	413000	10.639	ppbv	#	96
58) Ethyl Benzene	9.348	91	689053	10.878	ppbv		97
59) m/p-Xylene	9.526	91	1184650m	23.401	ppbv		
60) o-Xylene	9.959	91	585863	11.581	ppbv		100
61) Styrene	9.866	104	231979	10.901	ppbv		100
62) Isopropylbenzene	10.532	105	849097	11.379	ppbv		100
63) 1,1,2,2-Tetrachloroethane	9.956	83	352721	10.861	ppbv		100
64) n-propylbenzene	10.985	120	230126	11.830	ppbv		98
65) tert-Butylbenzene	11.526	119	773412	11.669	ppbv		100
66) Benzyl Chloride	11.610	91	75088	13.800	ppbv		98
67) sec-Butylbenzene	11.762	105	1086111	11.522	ppbv		100
69) p-Isopropyltoluene	11.921	119	913994	11.891	ppbv		100
70) n-Butylbenzene	12.277	91	930859	12.537	ppbv		99
71) 2-Chlorotoluene	10.895	91	644792	11.270	ppbv		99
72) 4-Ethyltoluene	11.118	105	721006	11.935	ppbv		99
73) 1,3,5-Trimethylbenzene	11.199	105	604864	12.160	ppbv		99
74) 1,2,4-Trimethylbenzene	11.532	105	681545	12.559	ppbv		95
75) 1,3-Dichlorobenzene	11.600	146	431639	11.346	ppbv		100
76) 1,4-Dichlorobenzene	11.665	146	432007	11.605	ppbv		99
77) 1,2-Dichlorobenzene	11.940	146	425471	11.379	ppbv		98
78) Hexachloro-1,3-Butadiene	13.876	225	341222	10.083	ppbv		99
79) Naphthalene	13.507	128	630516	10.677	ppbv		99
80) Naphthalene,2-methyl-	14.452	142	218244	7.704	ppbv		98
81) 1,2,4-Trichlorobenzene	13.436	180	346617	10.453	ppbv		99

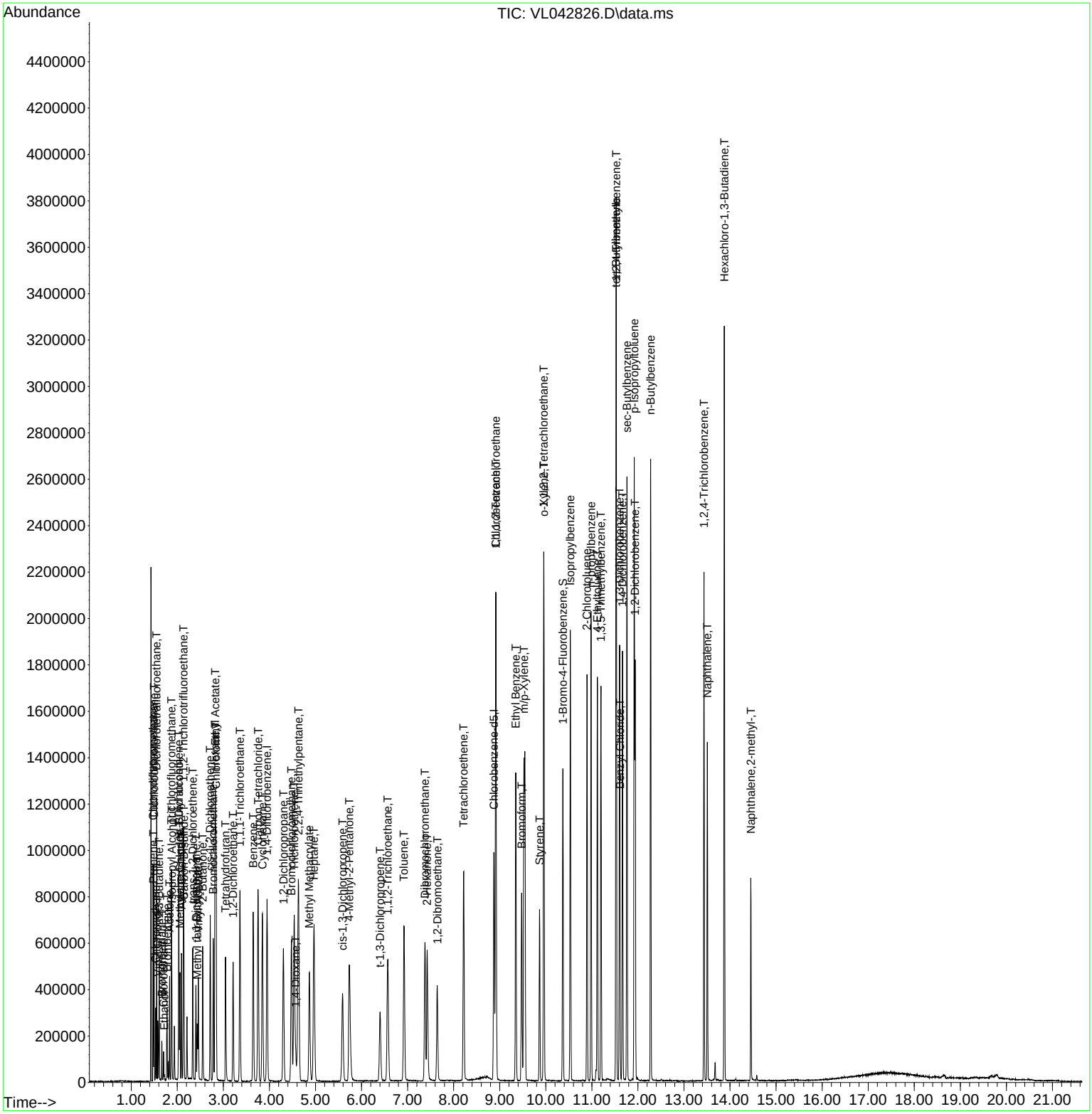
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080725\
Data File : VL042826.D
Acq On : 07 Aug 2025 10:28
Operator : SY/MD
Sample : VL0807ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 08 01:14:07 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 05:24:41 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL0807ABS01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 08/08/2025
Supervised By :Mahesh Dadoda 08/11/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080725\
Data File : VL042828.D
Acq On : 07 Aug 2025 11:34
Operator : SY/MD
Sample : QC080425 CAN 10608
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC080425 CAN 10608

Quant Time: Aug 08 01:15:29 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

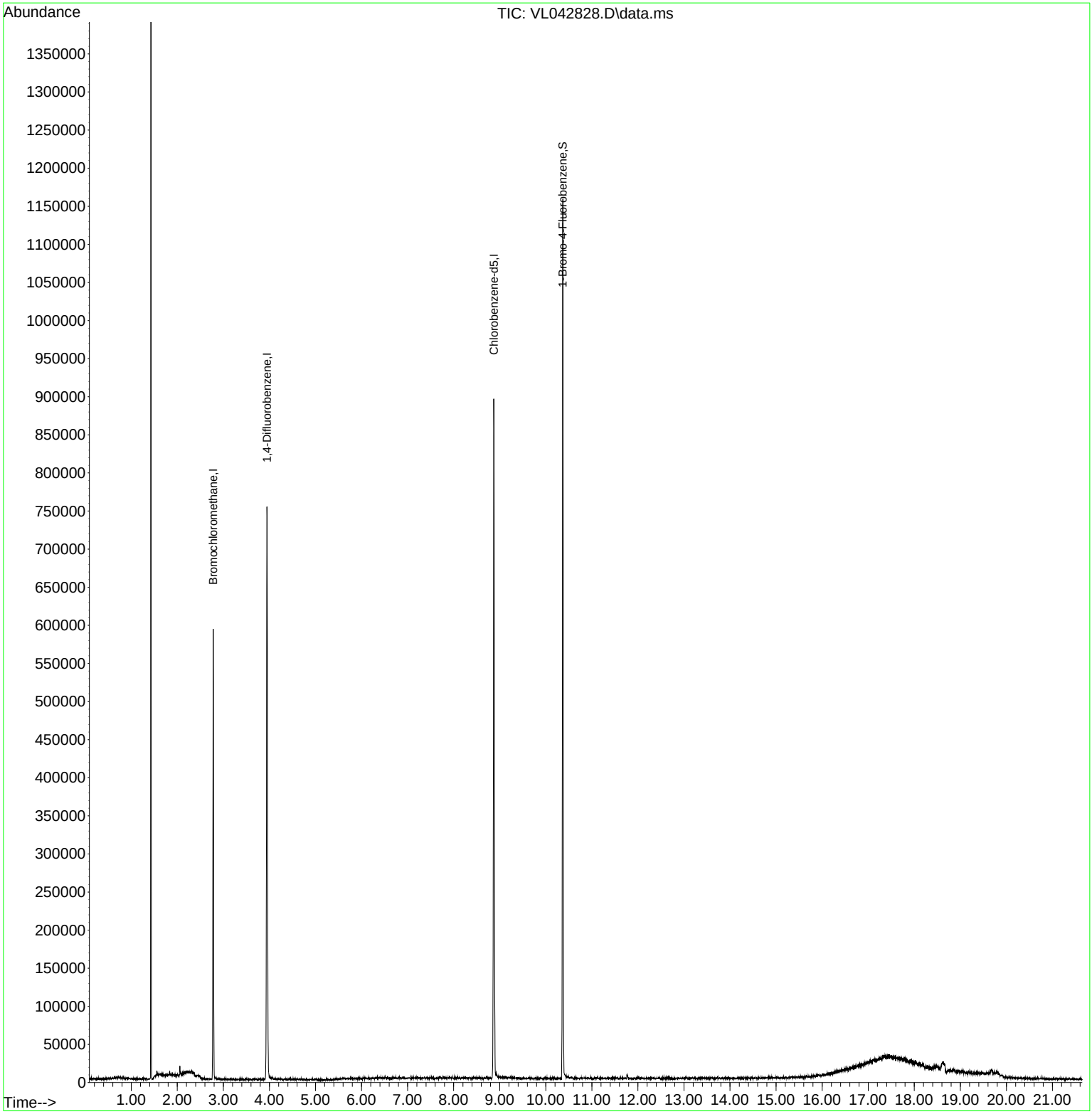
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.781	49	159509	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.946	114	409935	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	347427	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.368	95	258713	9.403	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 94.000%			
Target Compounds						Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080725\
Data File : VL042828.D
Acq On : 07 Aug 2025 11:34
Operator : SY/MD
Sample : QC080425 CAN 10608
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC080425 CAN 10608

Quant Time: Aug 08 01:15:29 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



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

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch 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	VSTDICC002	VL042748.D	23 Jul 2025 09:34	SY/MD	Ok,M
4	VSTDICC001	VL042749.D	23 Jul 2025 10:08	SY/MD	Ok,M
5	VSTDICC0.5	VL042750.D	23 Jul 2025 10:42	SY/MD	Ok,M
6	VSTDICC0.1	VL042751.D	23 Jul 2025 11:16	SY/MD	Not Ok
7	VSTDICC0.03	VL042752.D	23 Jul 2025 11:50	SY/MD	Ok,M
8	VSTDICC015	VL042753.D	23 Jul 2025 12:26	SY/MD	Ok,M
9	VSTDICC0.1	VL042754.D	23 Jul 2025 13:00	SY/MD	Ok,M
10	VSTDICV010	VL042755.D	23 Jul 2025 14:33	SY/MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL080725

Review By	Semsettin Yesilyurt	Review On	8/8/2025 3:06:52 PM				
Supervise By	Mahesh Dadoda	Supervise On	8/11/2025 3:17:11 PM				
SubDirectory	VL080725	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	VL042823.D	07 Aug 2025 07:42	SY/MD	Ok
2	VSTDCCC010	VL042824.D	07 Aug 2025 08:27	SY/MD	Ok,M
3	VL0807ABL01	VL042825.D	07 Aug 2025 09:53	SY/MD	Ok
4	VL0807ABS01	VL042826.D	07 Aug 2025 10:28	SY/MD	Ok,M
5	VIBLK	VL042827.D	07 Aug 2025 11:01	SY/MD	Ok
6	QC080425 CAN 10608	VL042828.D	07 Aug 2025 11:34	SY/MD	Ok
7	QC072925 CAN 10283	VL042829.D	07 Aug 2025 12:07	SY/MD	Ok
8	CAN 10604	VL042830.D	07 Aug 2025 12:39	SY/MD	Ok

M : Manual Integration

Quantitation Report (Not Reviewed)

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_LFri 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

Quantitation Report (Not Reviewed)

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_LFri 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

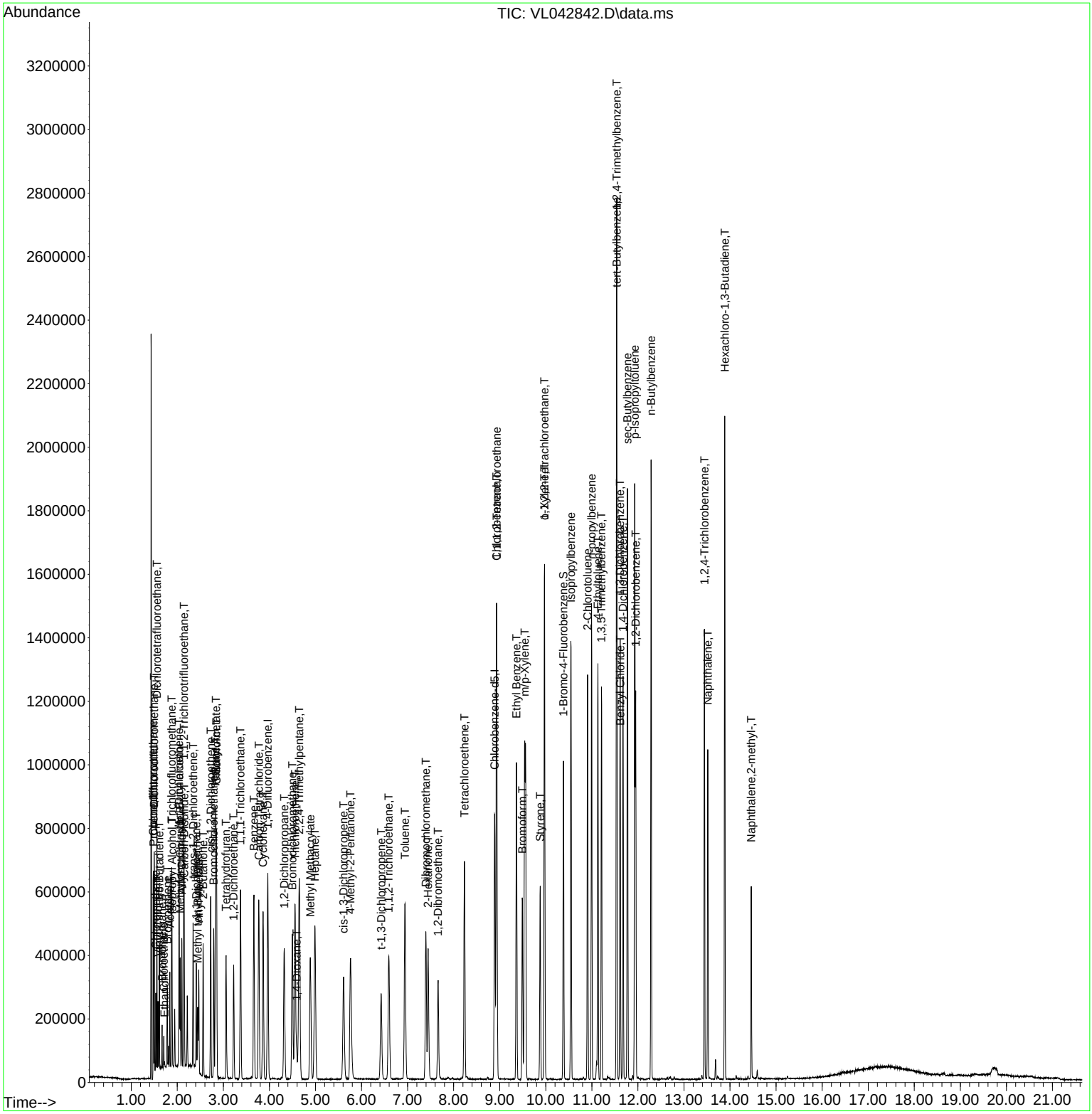
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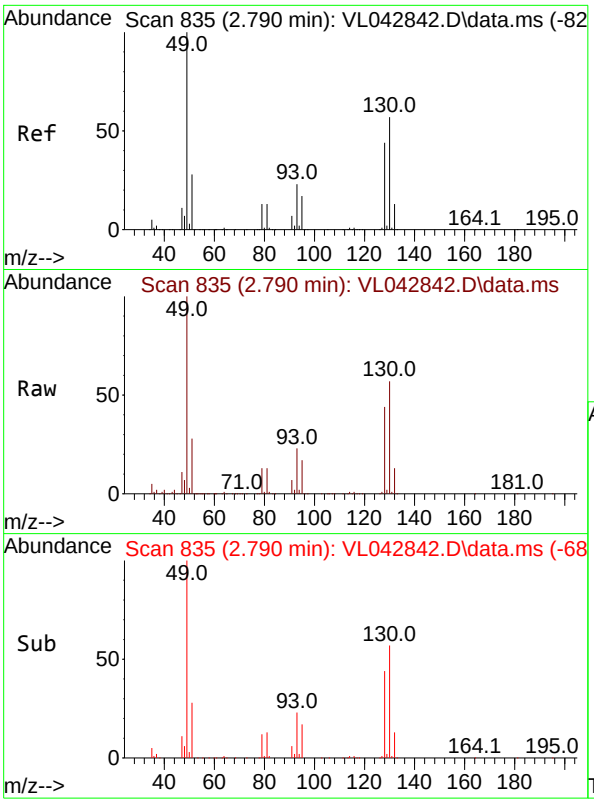
Quantitation Report (Not Reviewed)

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_LFri Aug 26 06:05:16 2022
QLast Update : Thu Aug 14 01:44:36 2025
Response via : Initial Calibration



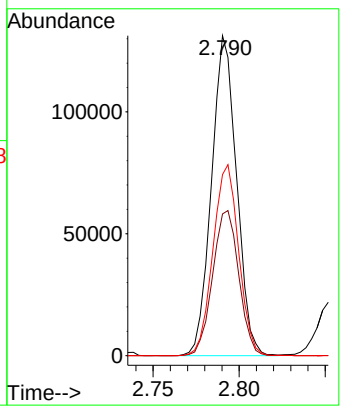


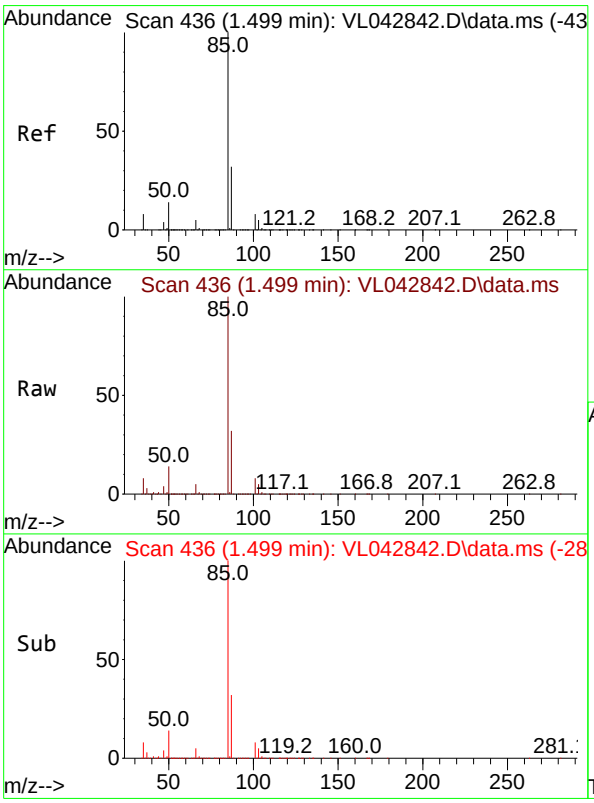
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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

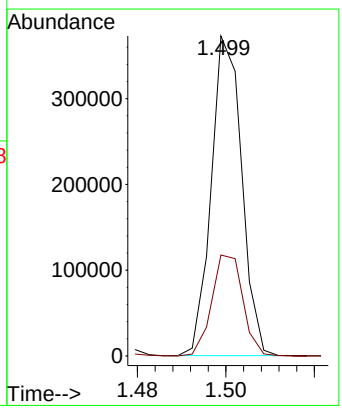


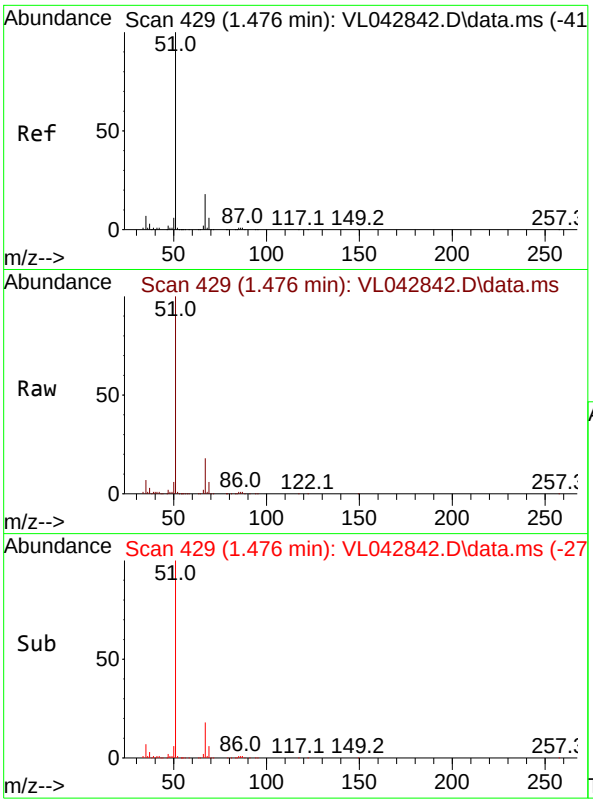


#2
Dichlorodifluoromethane
Concen: 9.166 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 85 Resp: 178799

Ion	Ratio	Lower	Upper
85	100		
87	31.6	25.3	37.9



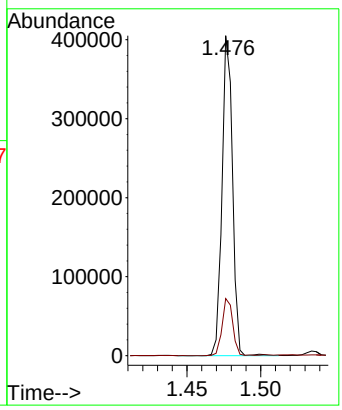


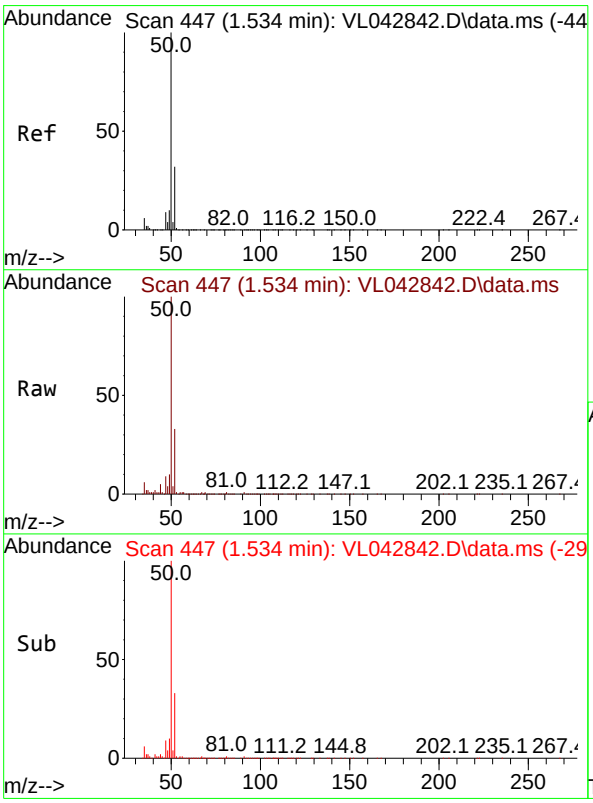
#3
Chlorodifluoromethane
Concen: 9.306 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 51 Resp: 200866

Ion	Ratio	Lower	Upper
51	100		
67	18.6	14.9	22.3

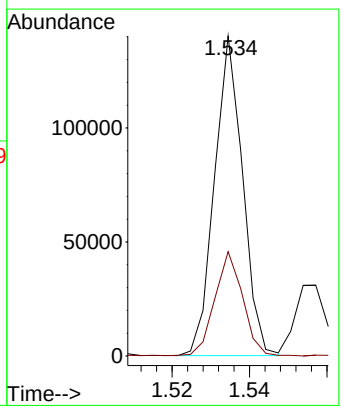


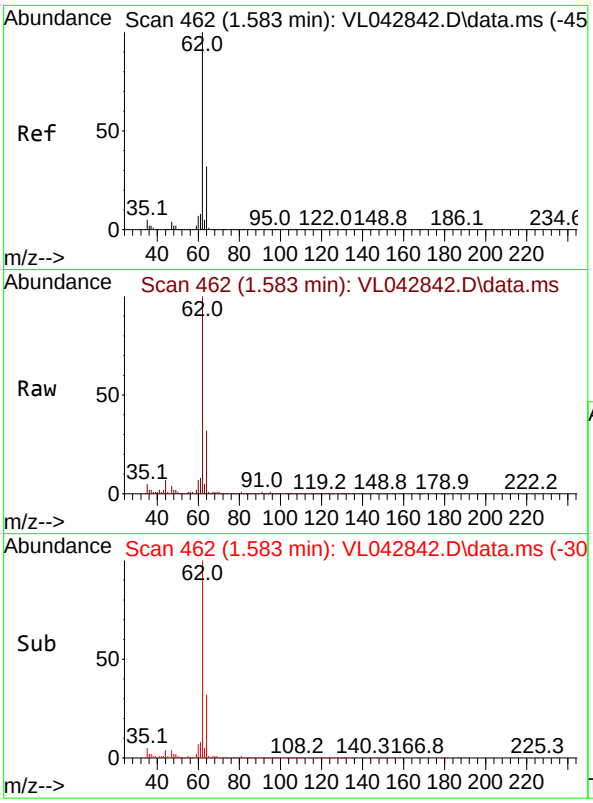


#4
Chloromethane
Concen: 9.013 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 50 Resp: 70952

Ion	Ratio	Lower	Upper
50	100		
52	32.4	25.9	38.9



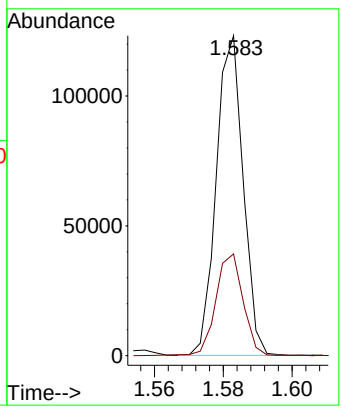


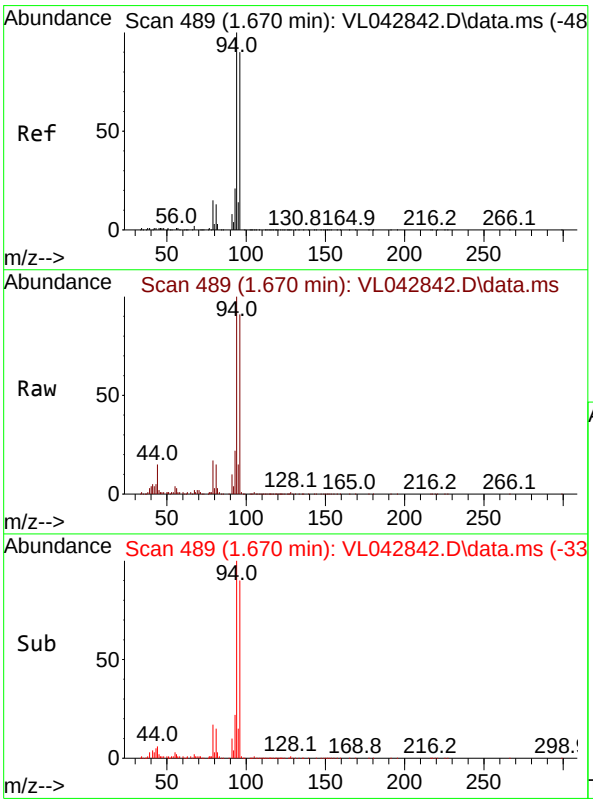
#5
Vinyl Chloride
Concen: 8.612 ppbv
RT: 1.583 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 62 Resp: 66768

Ion	Ratio	Lower	Upper
62	100		
64	31.8	25.4	38.2

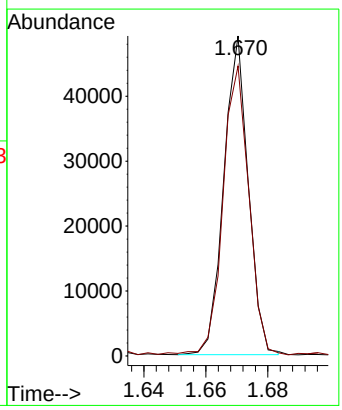


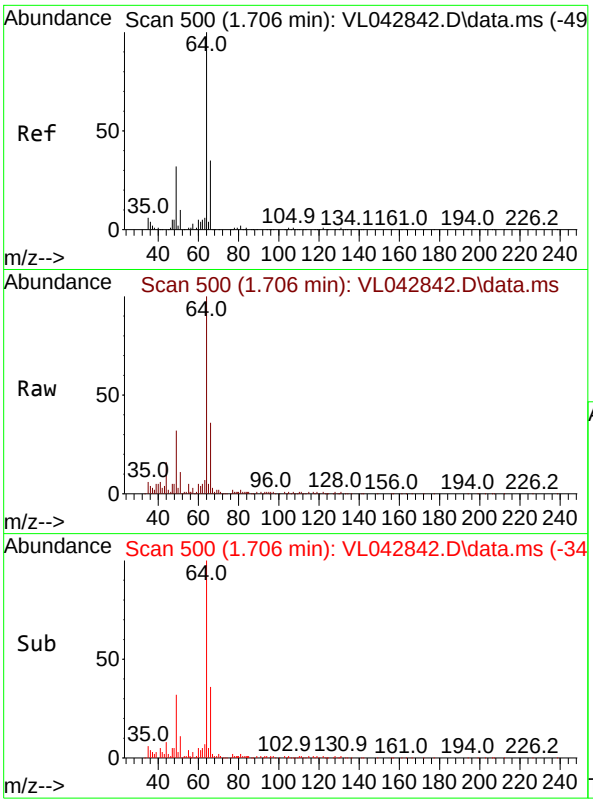


#6
Bromomethane
Concen: 8.698 ppbv
RT: 1.670 min Scan# 489
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 94 Resp: 26964

Ion	Ratio	Lower	Upper
94	100		
96	90.1	72.1	108.1



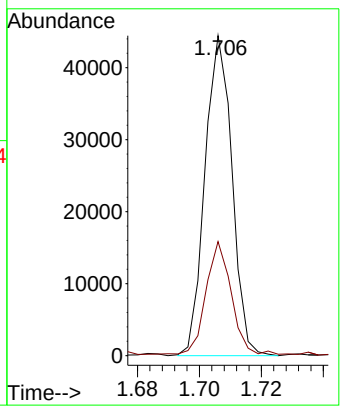


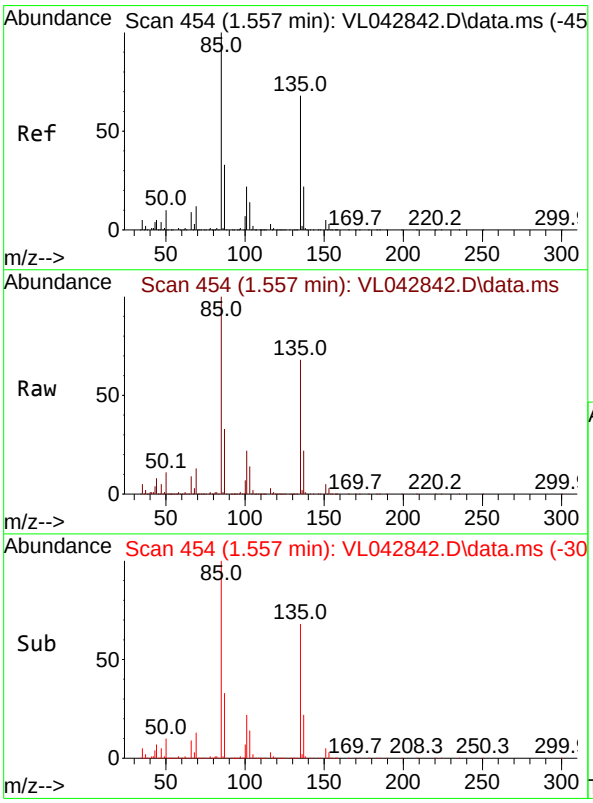
#7
Chloroethane
Concen: 8.879 ppbv
RT: 1.706 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 64 Resp: 26884

Ion	Ratio	Lower	Upper
64	100		
66	35.7	28.6	42.8

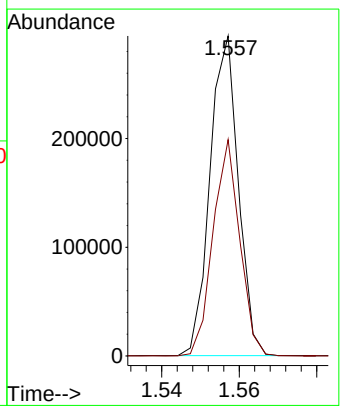


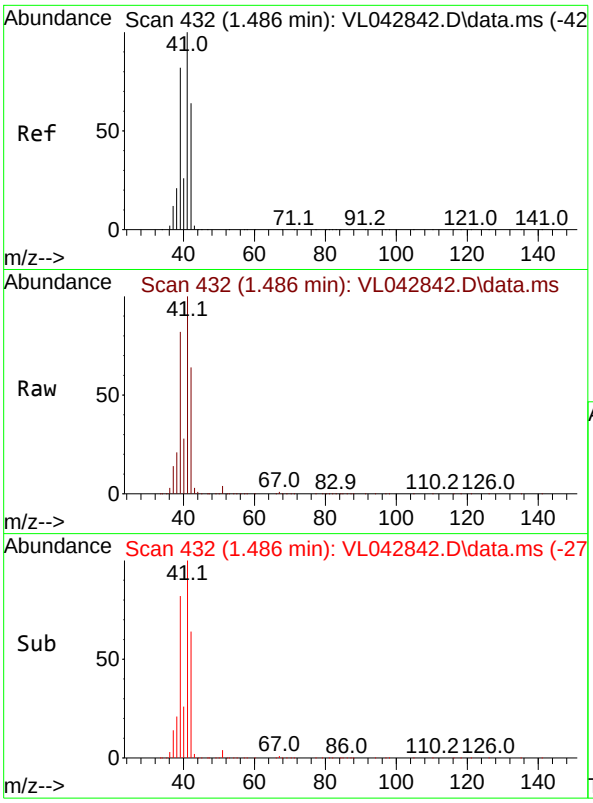


#8
Dichlorotetrafluoroethane
Concen: 9.355 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 85 Resp: 149341

Ion	Ratio	Lower	Upper
85	100		
135	64.0	51.2	76.8



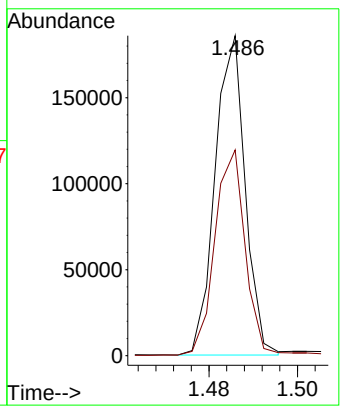


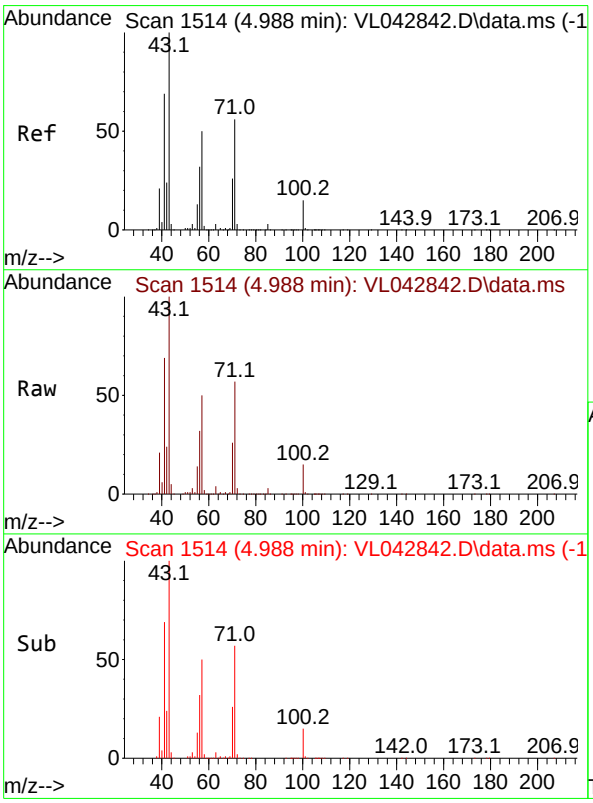
#9
Propene
Concen: 9.380 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 41 Resp: 87352

Ion	Ratio	Lower	Upper
41	100		
42	66.2	53.0	79.4

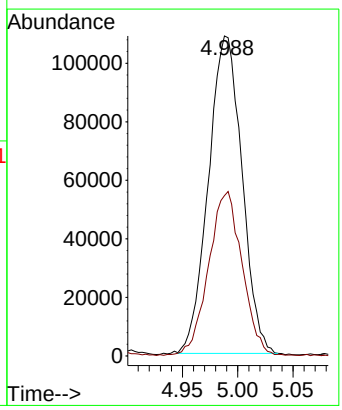


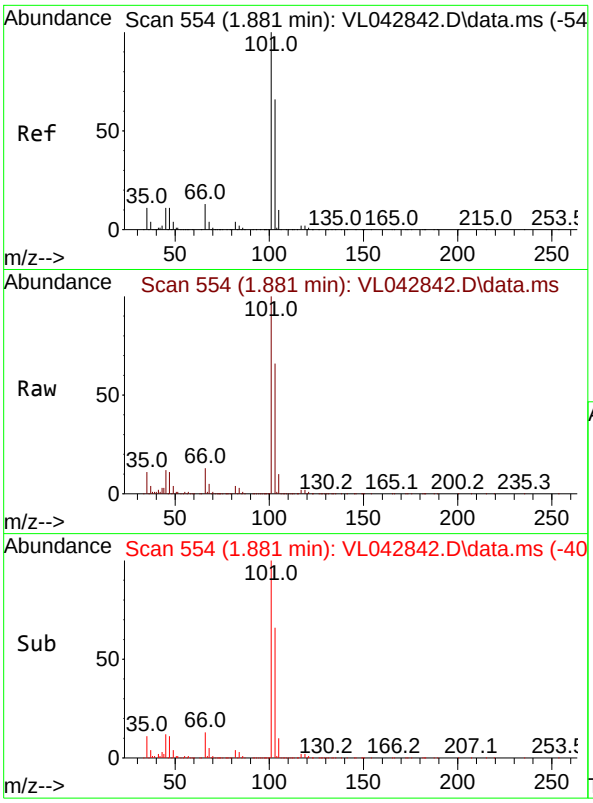


#10
Heptane
Concen: 9.186 ppbv
RT: 4.988 min Scan# 1514
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 43 Resp: 228679

Ion	Ratio	Lower	Upper
43	100		
57	51.7	41.4	62.0



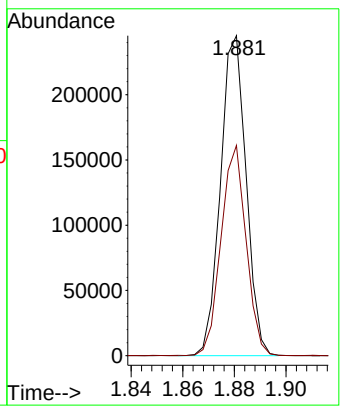


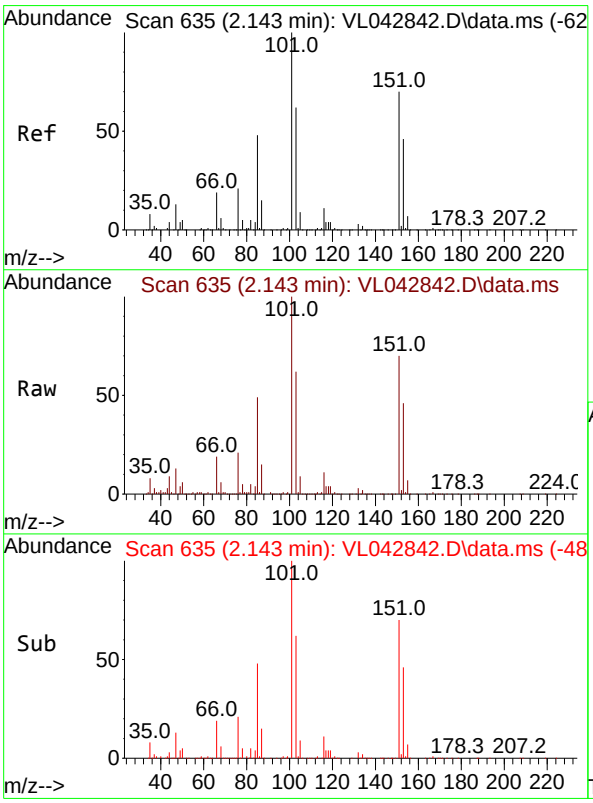
#11
Trichlorofluoromethane
Concen: 8.789 ppbv
RT: 1.881 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:101 Resp: 169157

Ion	Ratio	Lower	Upper
101	100		
103	65.6	52.5	78.7

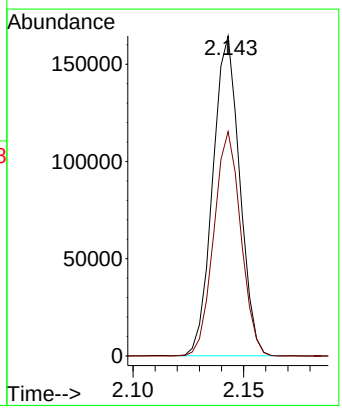


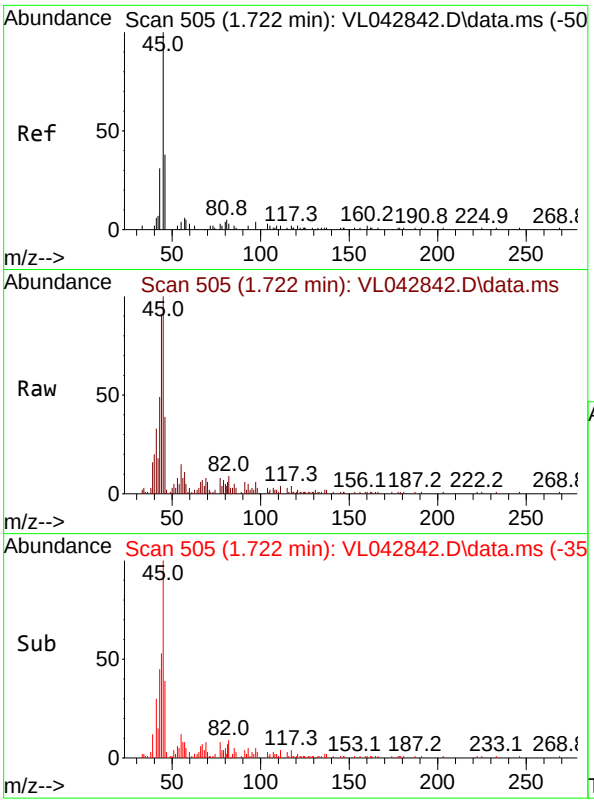


#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.083 ppbv
RT: 2.143 min Scan# 635
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion:101 Resp: 139340

Ion	Ratio	Lower	Upper
101	100		
151	70.5	56.4	84.6



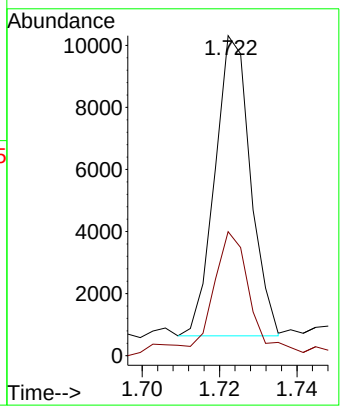


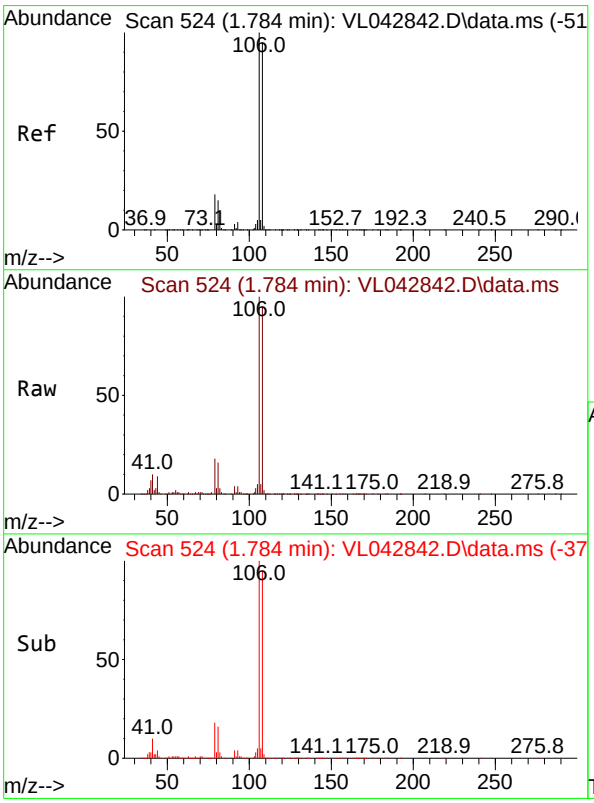
#13
Ethanol
Concen: 6.690 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 45 Resp: 6172

Ion	Ratio	Lower	Upper
45	100		
46	43.7	17.5	69.9

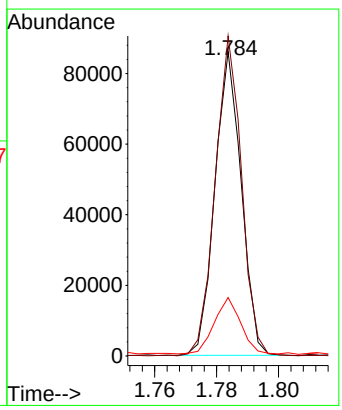


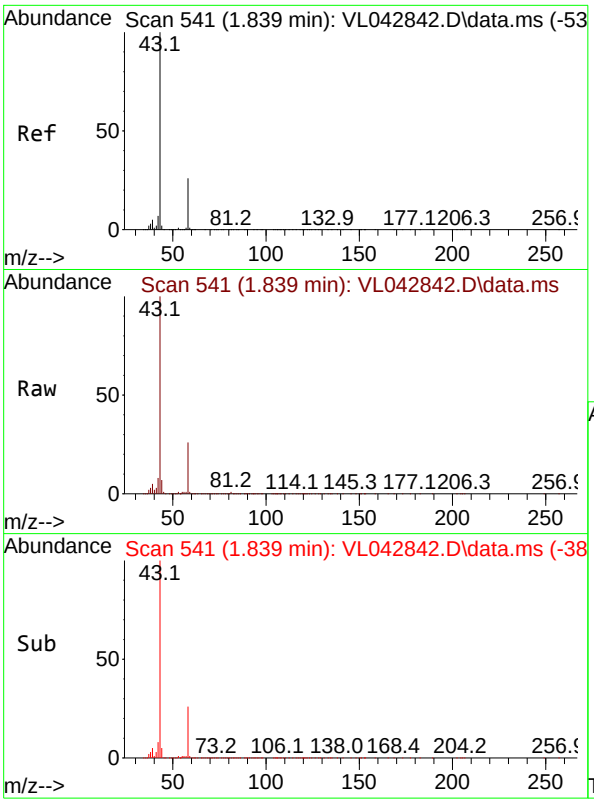


#14
Bromoethene
Concen: 9.135 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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



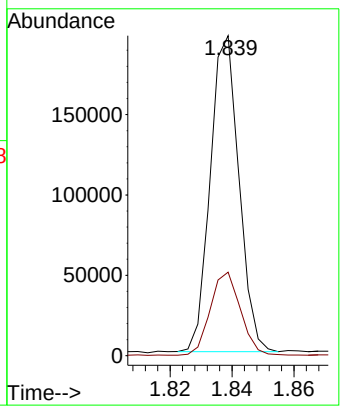


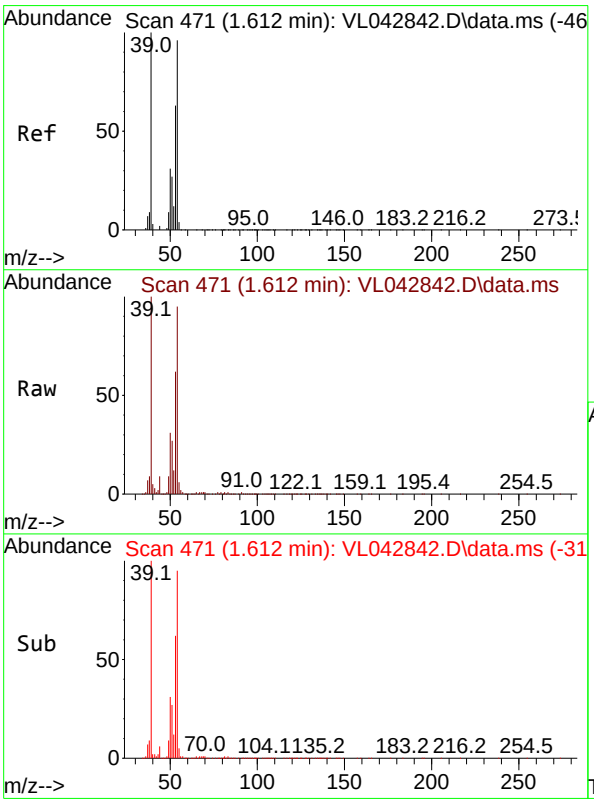
#15
Acetone
Concen: 7.180 ppbv
RT: 1.839 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 43 Resp: 126419

Ion	Ratio	Lower	Upper
43	100		
58	28.0	22.4	33.6

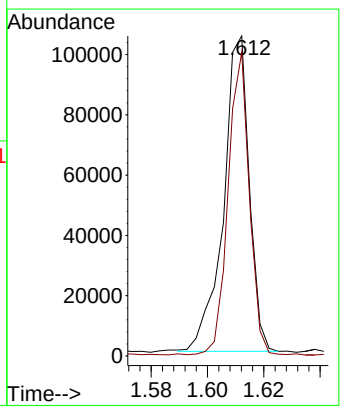


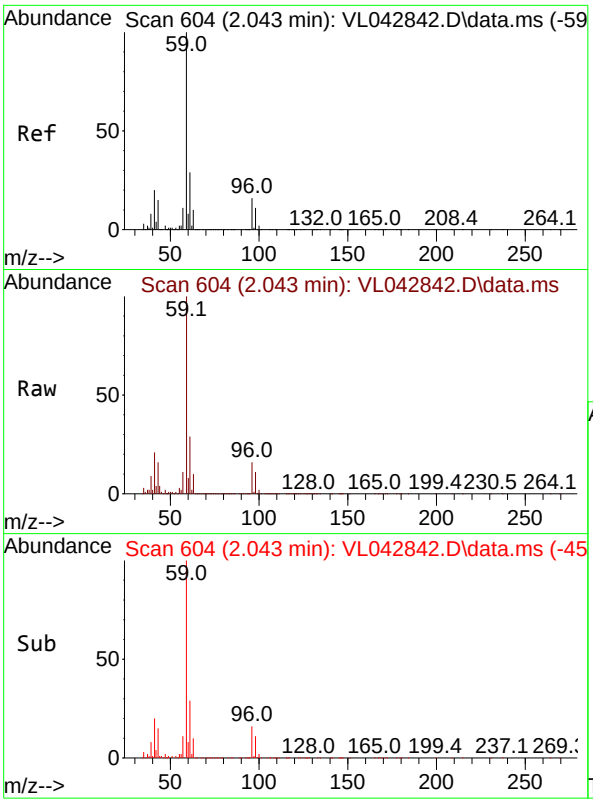


#16
1,3-Butadiene
Concen: 8.343 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 39 Resp: 66595

Ion	Ratio	Lower	Upper
39	100		
54	79.5	63.6	95.4



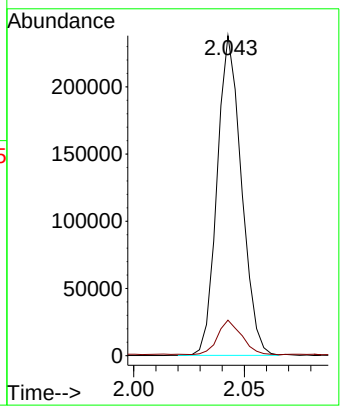


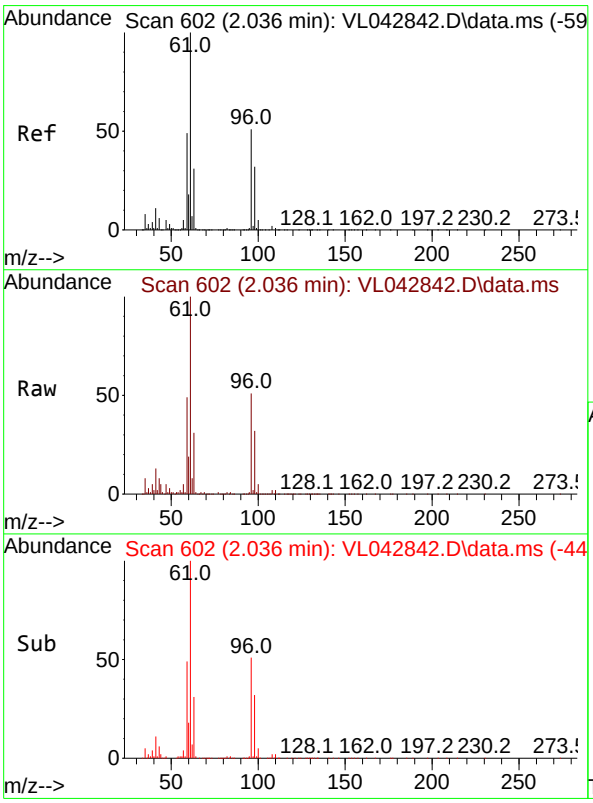
#17
tert-Butyl alcohol
Concen: 8.741 ppbv
RT: 2.043 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 59 Resp: 182511

Ion	Ratio	Lower	Upper
59	100		
57	11.2	9.0	13.4

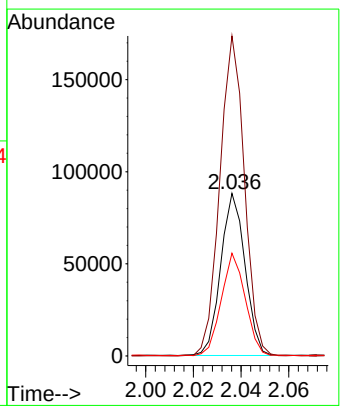


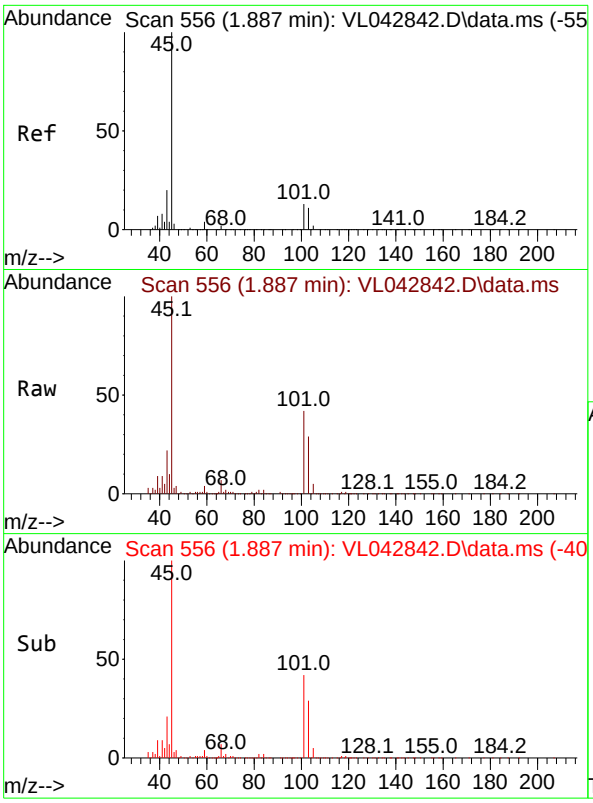


#18
1,1-Dichloroethene
Concen: 9.252 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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



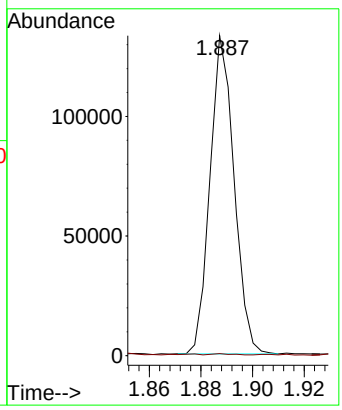


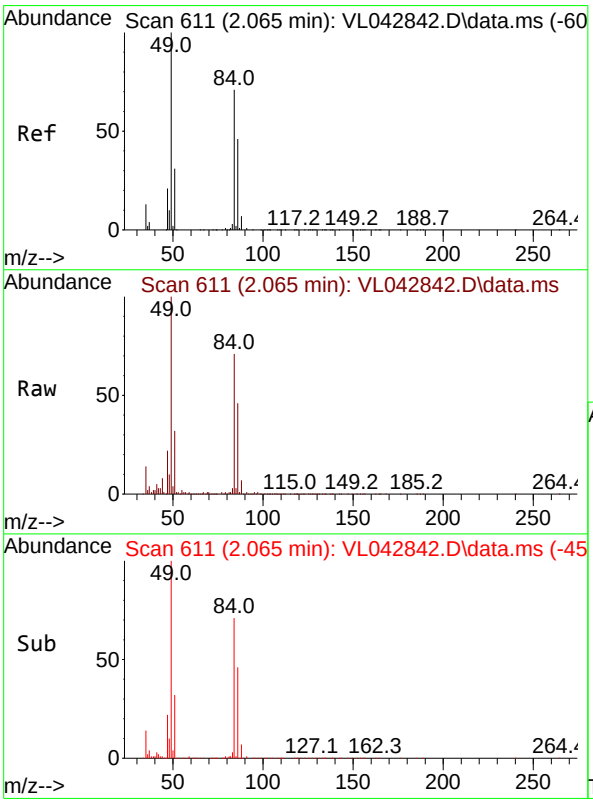
#19
Isopropyl Alcohol
Concen: 8.213 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 45 Resp: 86367

Ion	Ratio	Lower	Upper
45	100		
58	40.9	32.7	49.1

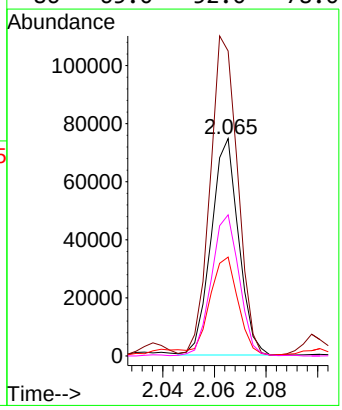


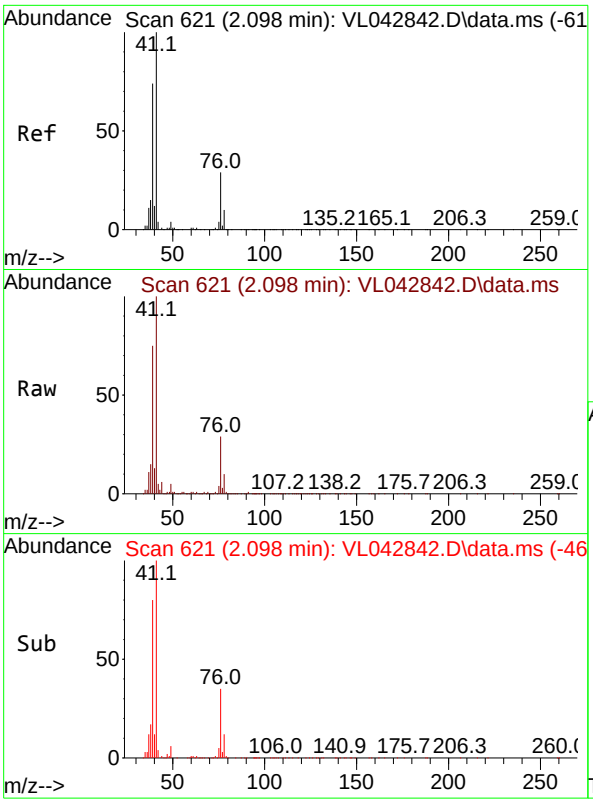


#20
Methylene Chloride
Concen: 7.471 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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



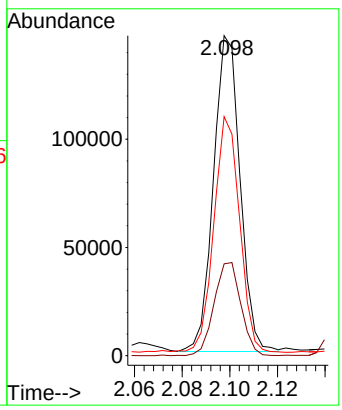


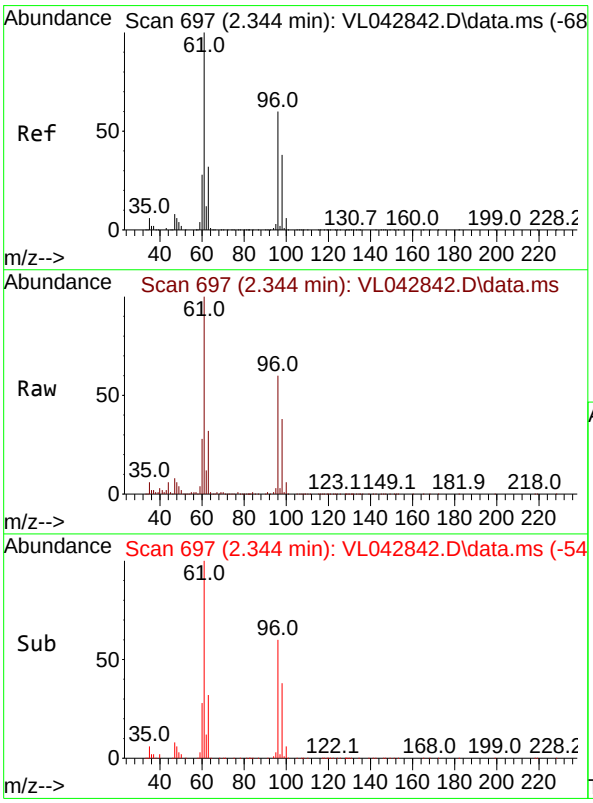
#21
Allyl Chloride
Concen: 9.093 ppbv
RT: 2.098 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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

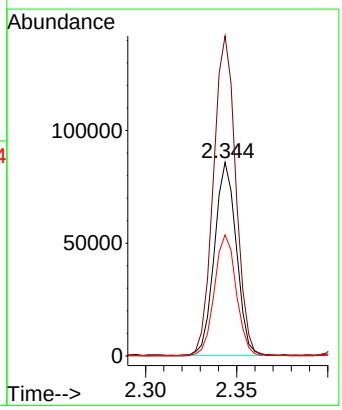


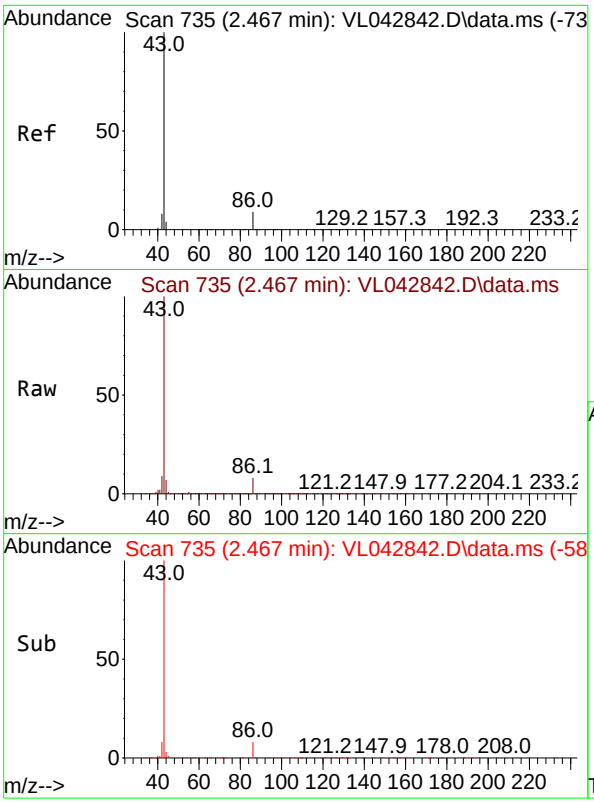


#22
trans-1,2-Dichloroethene
Concen: 9.482 ppbv
RT: 2.344 min Scan# 697
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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



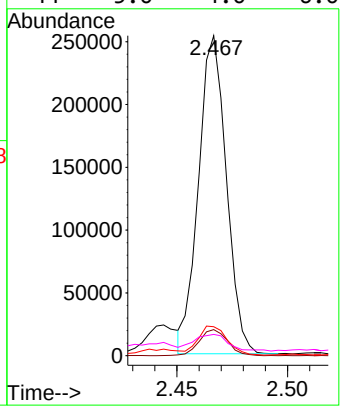


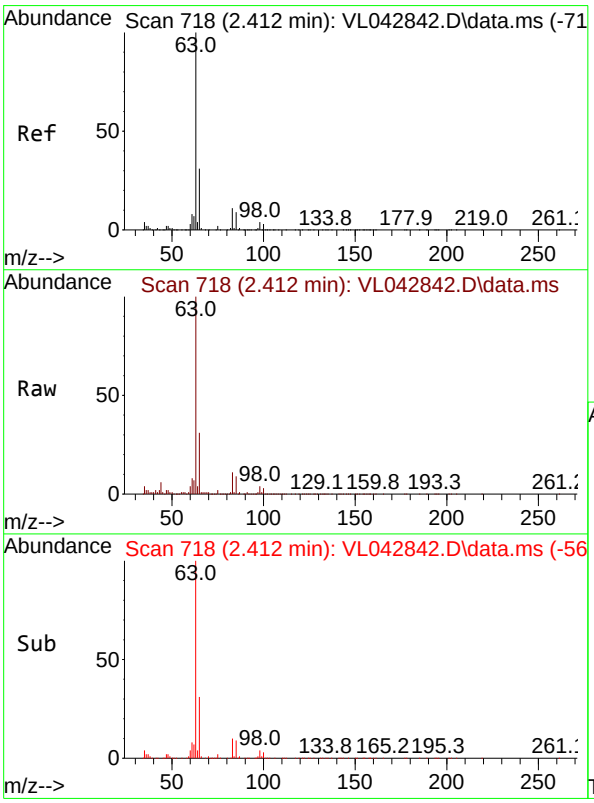
#23
Vinyl Acetate
Concen: 9.558 ppbv
RT: 2.467 min Scan# 7
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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

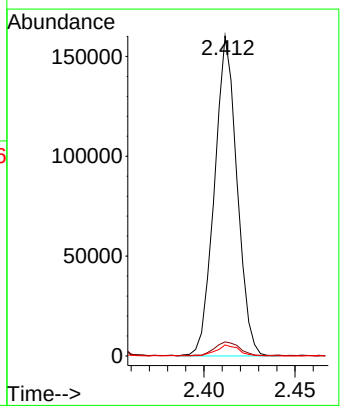


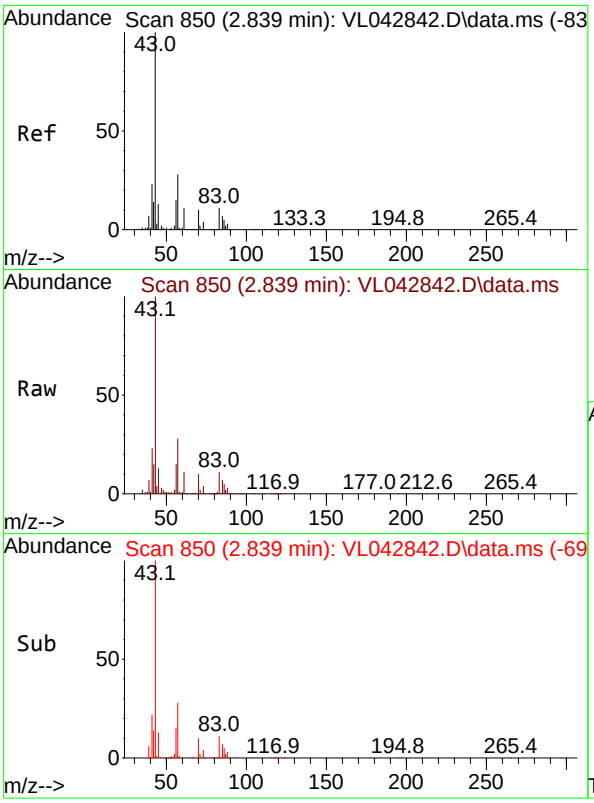


#24
1,1-Dichloroethane
Concen: 8.885 ppbv
RT: 2.412 min Scan# 718
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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



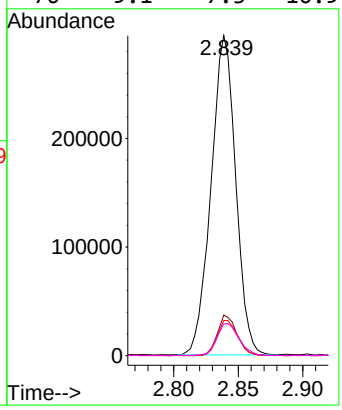


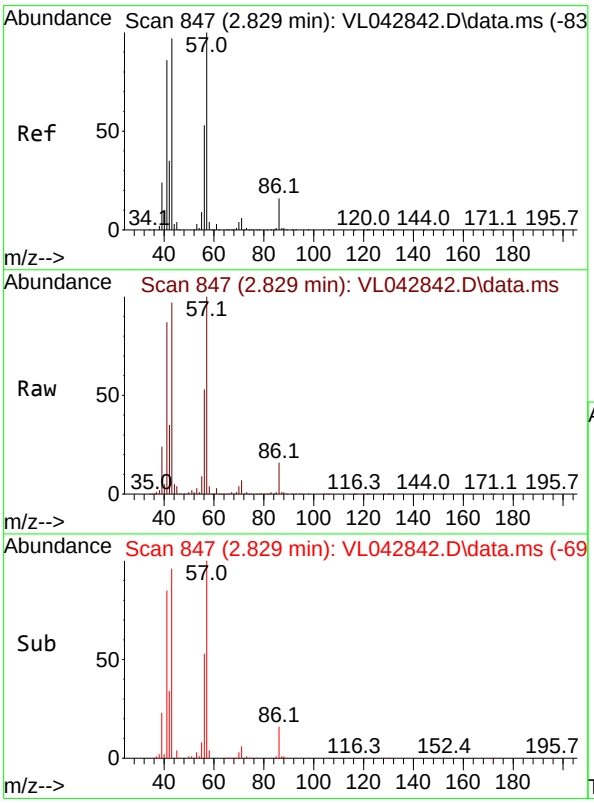
#25
Ethyl Acetate
Concen: 9.159 ppbv
RT: 2.839 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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

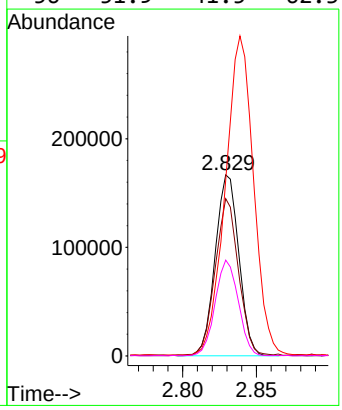


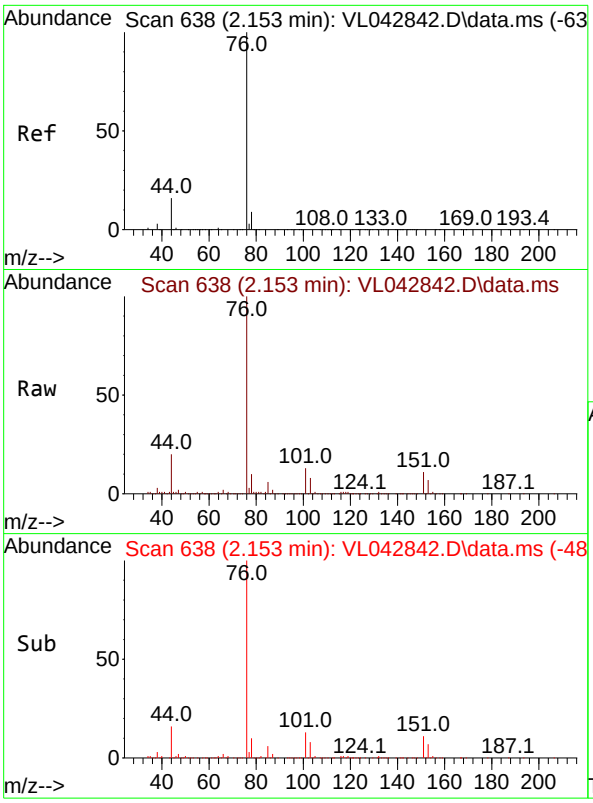


#26
Hexane
Concen: 9.420 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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



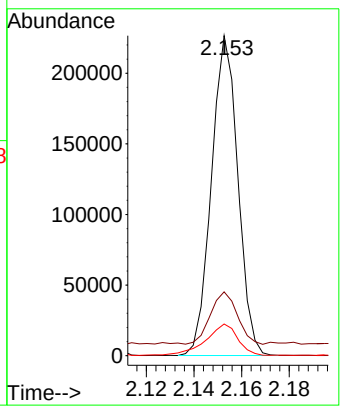


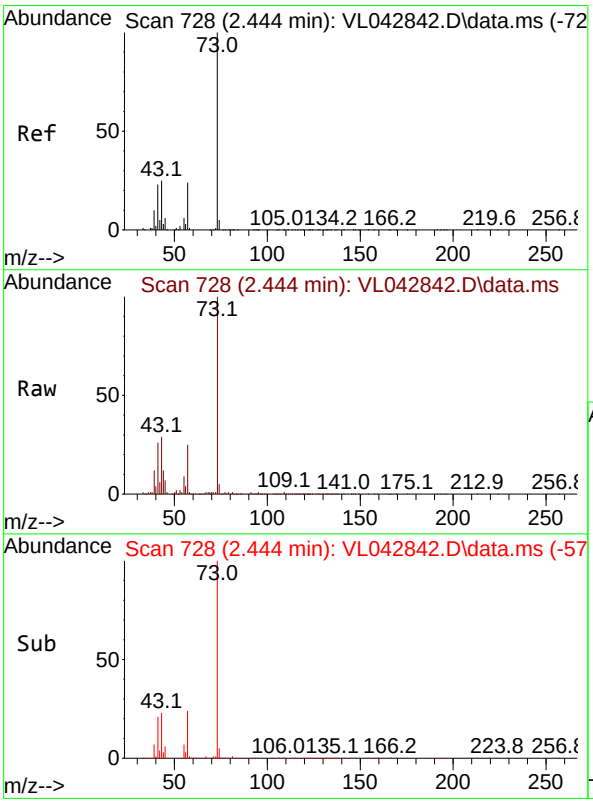
#27
Carbon Disulfide
Concen: 9.138 ppbv
RT: 2.153 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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

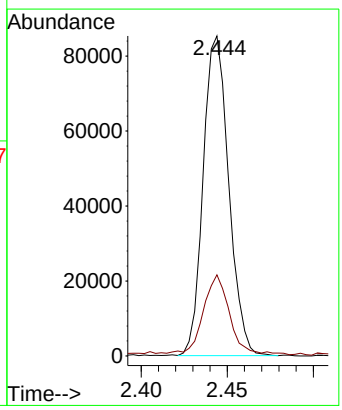


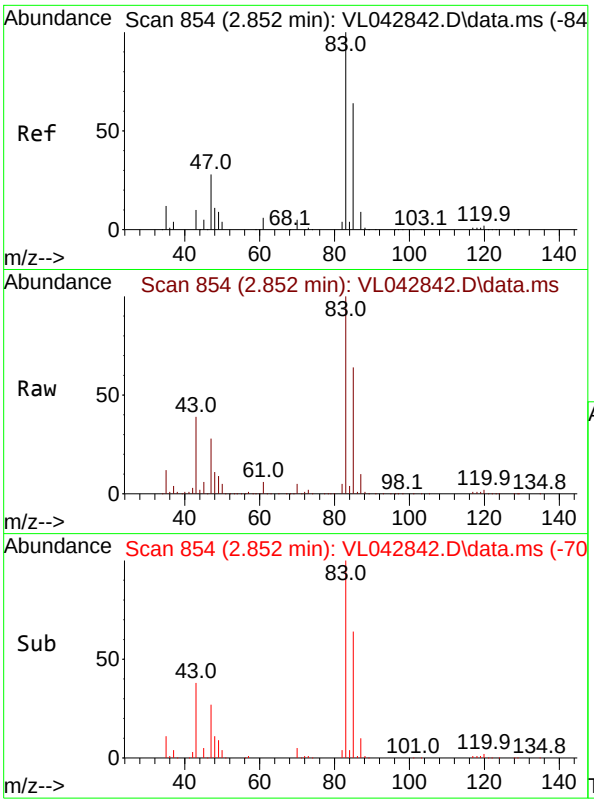


#28
Methyl tert-Butyl Ether
Concen: 8.767 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 73 Resp: 87929

Ion	Ratio	Lower	Upper
73	100		
57	27.0	21.6	32.4



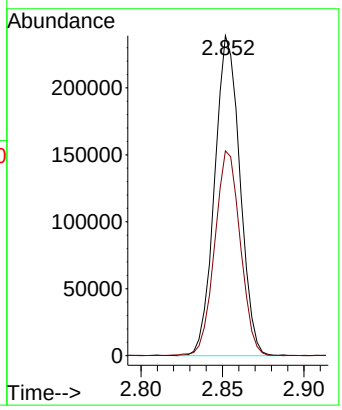


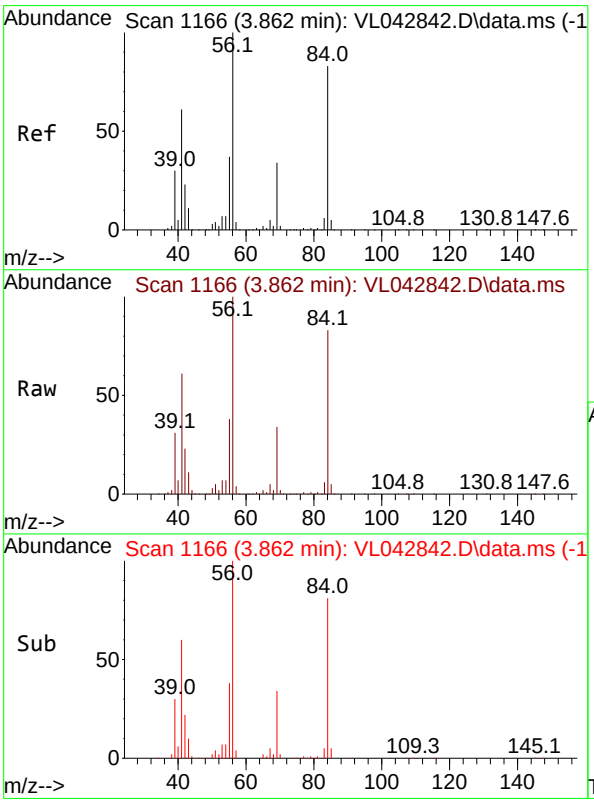
#29
Chloroform
Concen: 9.158 ppbv
RT: 2.852 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 83 Resp: 257176

Ion	Ratio	Lower	Upper
83	100		
85	63.9	51.1	76.7

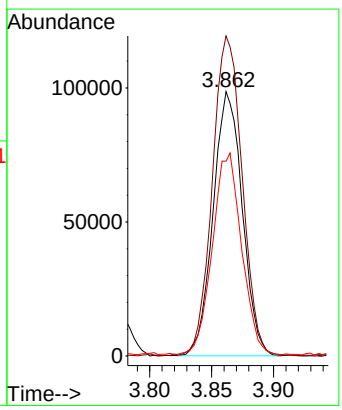


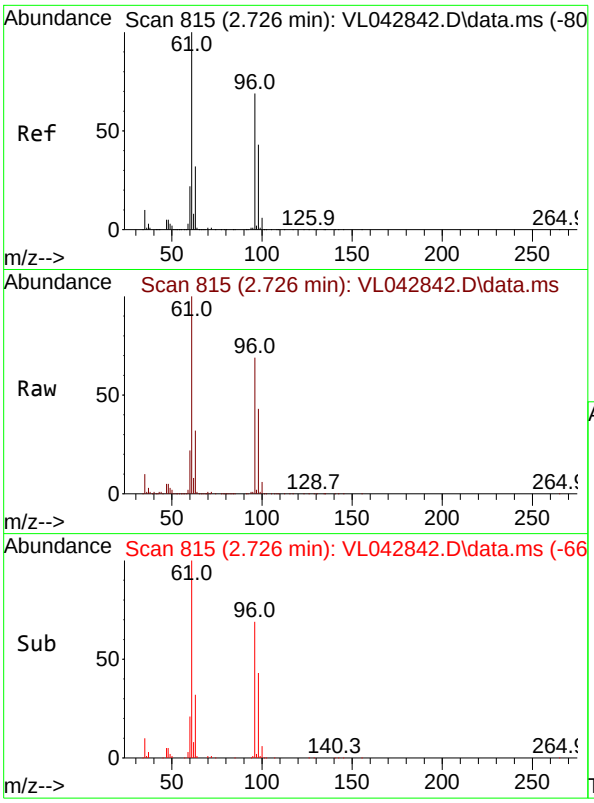


#30
Cyclohexane
Concen: 9.367 ppbv
RT: 3.862 min Scan# 1166
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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



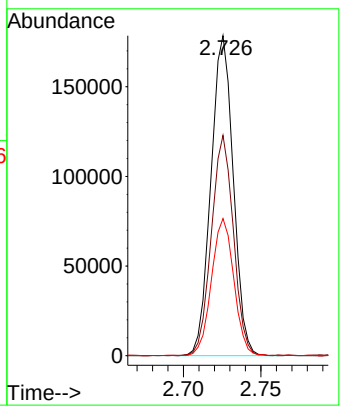


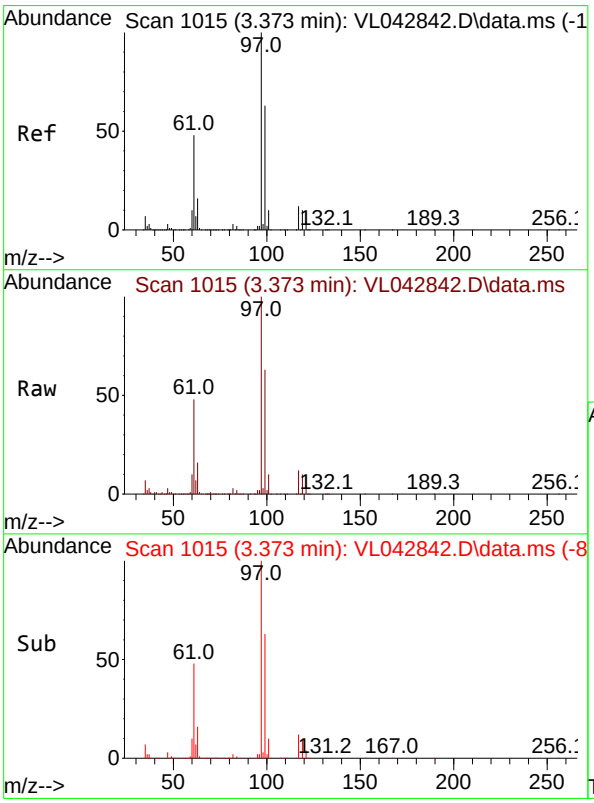
#31
cis-1,2-Dichloroethene
Concen: 9.107 ppbv
RT: 2.726 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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

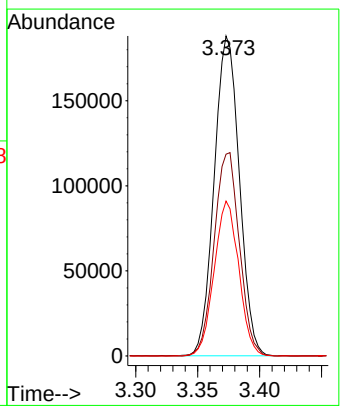


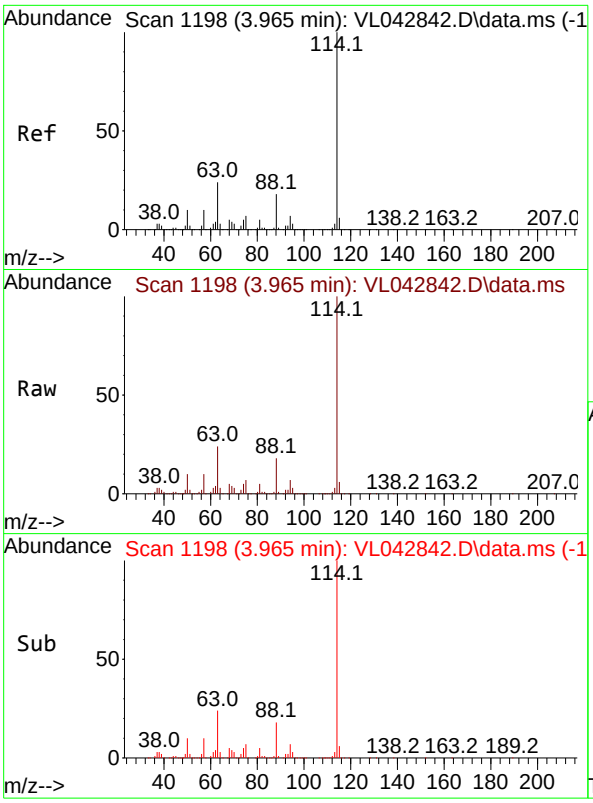


#32
1,1,1-Trichloroethane
Concen: 8.946 ppbv
RT: 3.373 min Scan# 1015
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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



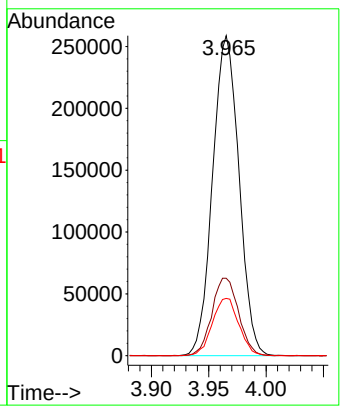


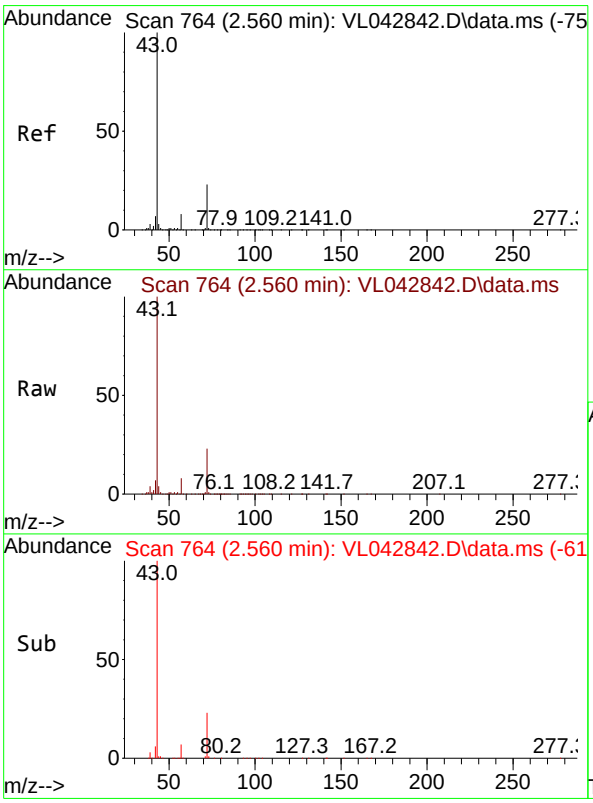
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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

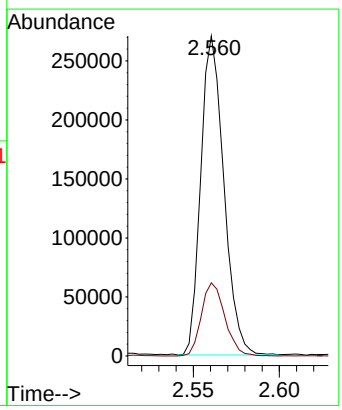


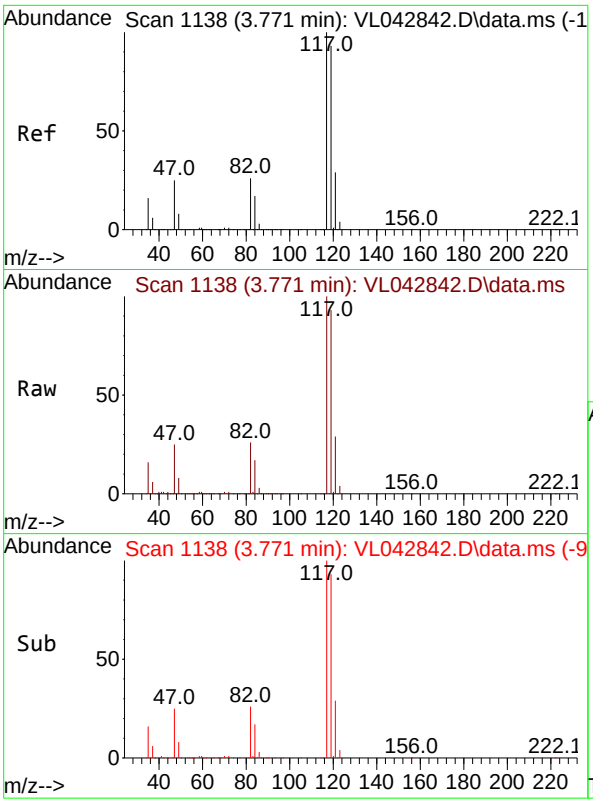


#34
2-Butanone
Concen: 9.033 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 43 Resp: 252300

Ion	Ratio	Lower	Upper
43	100		
72	23.3	18.6	28.0



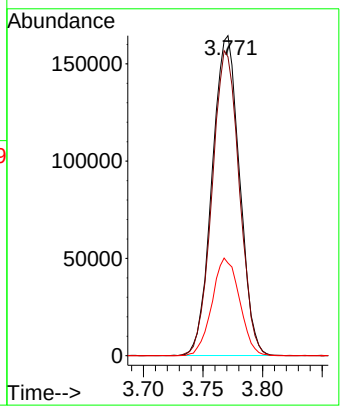


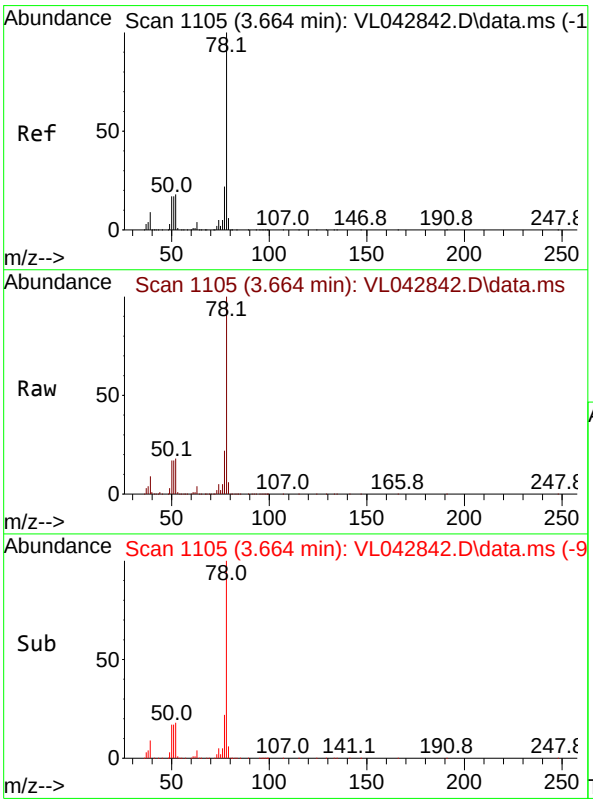
#35
Carbon Tetrachloride
Concen: 9.222 ppbv
RT: 3.771 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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

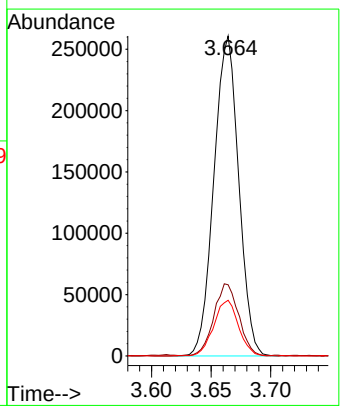


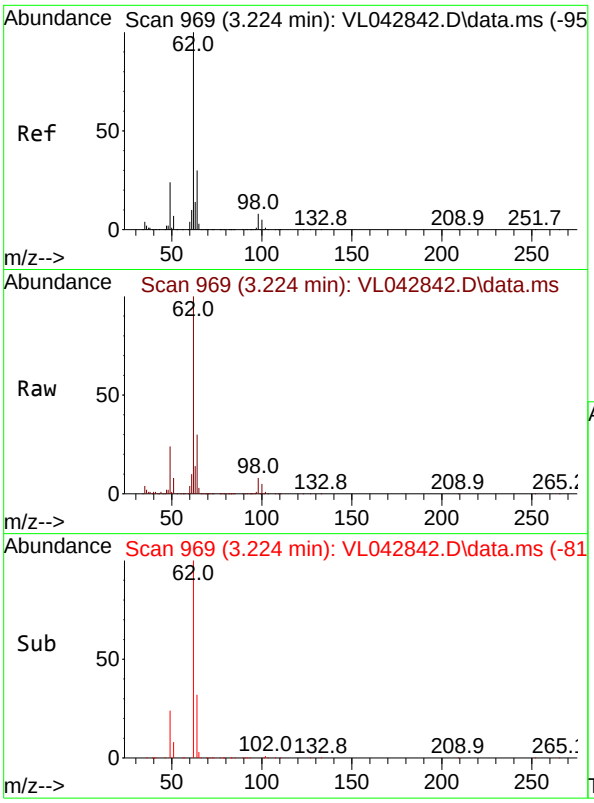


#36
Benzene
Concen: 9.521 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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



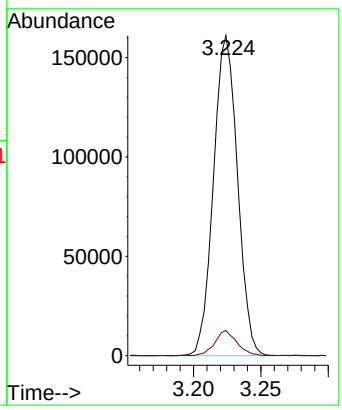


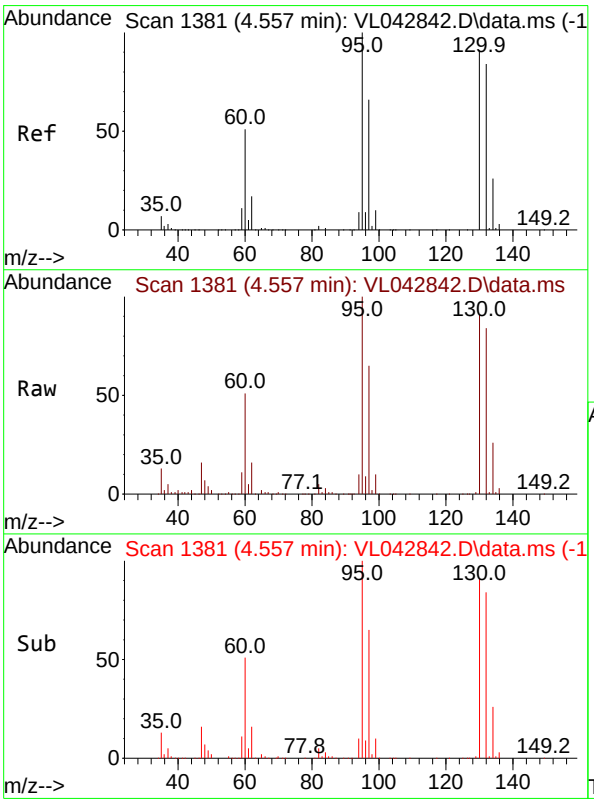
#37
1,2-Dichloroethane
Concen: 9.653 ppbv
RT: 3.224 min Scan# 9
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 62 Resp: 199762

Ion	Ratio	Lower	Upper
62	100		
98	7.4	5.9	8.9

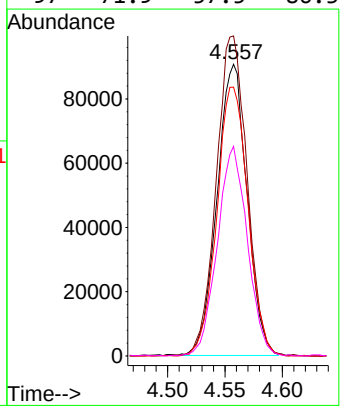


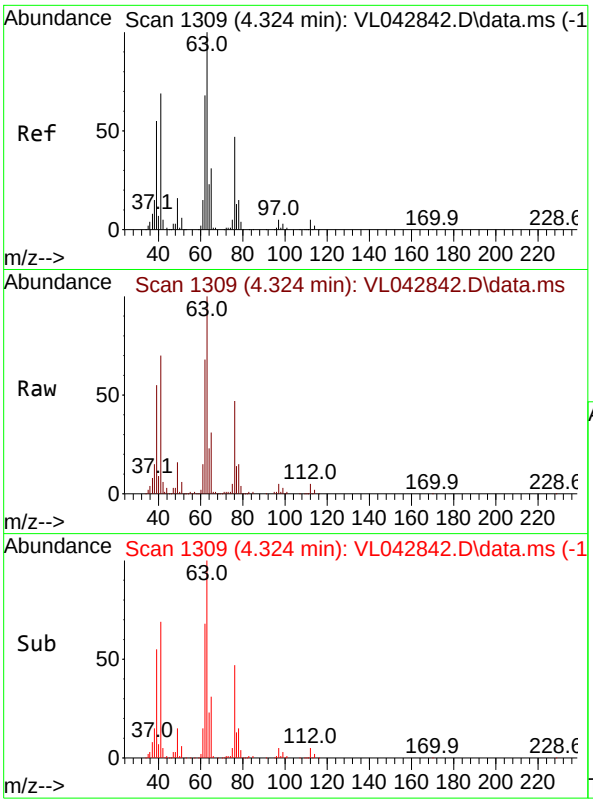


#38
Trichloroethene
Concen: 9.115 ppbv
RT: 4.557 min Scan# 1381
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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



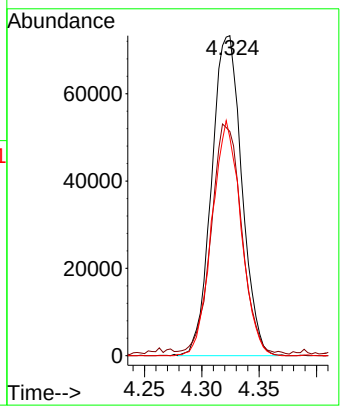


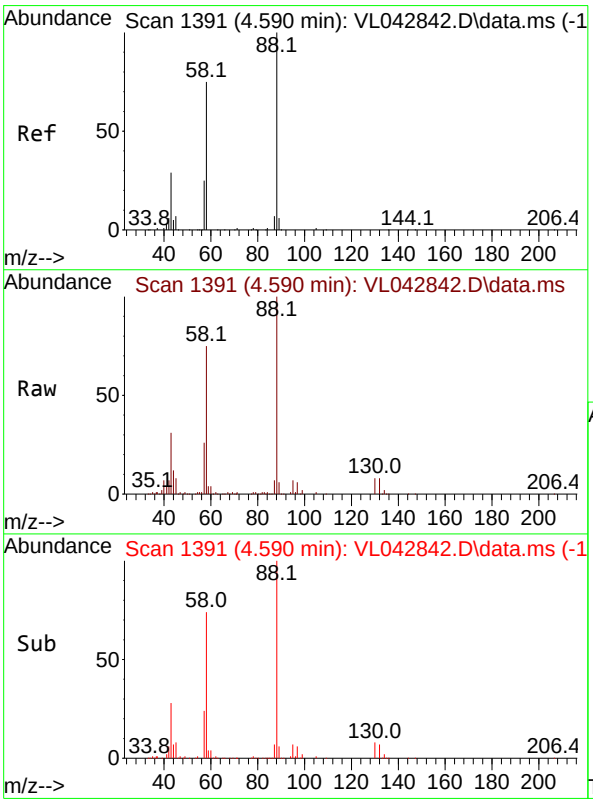
#39
1,2-Dichloropropane
Concen: 9.263 ppbv
RT: 4.324 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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

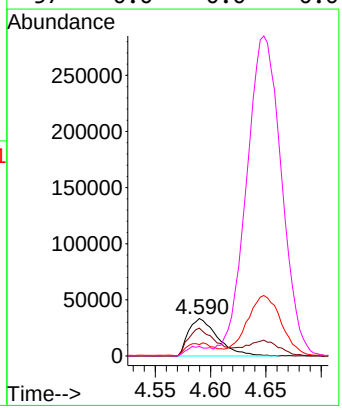


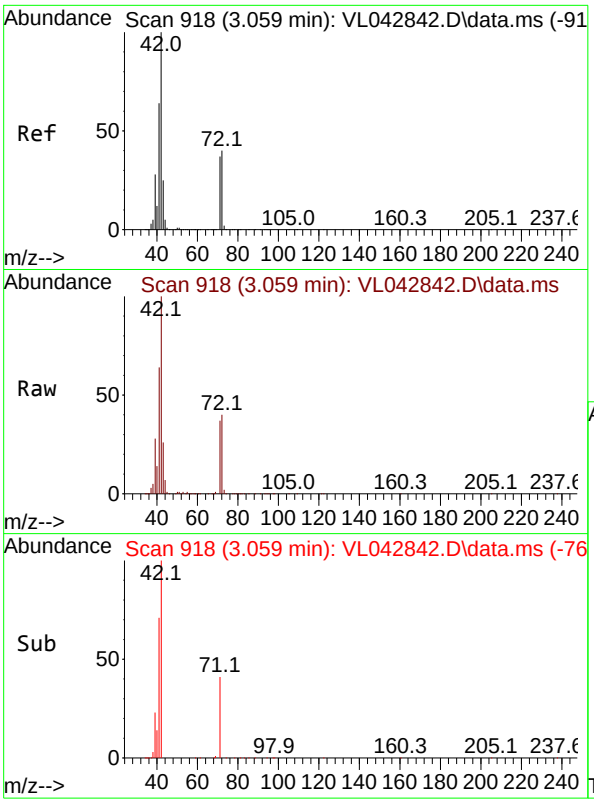


#40
1,4-Dioxane
Concen: 9.064 ppbv
RT: 4.590 min Scan# 1391
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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



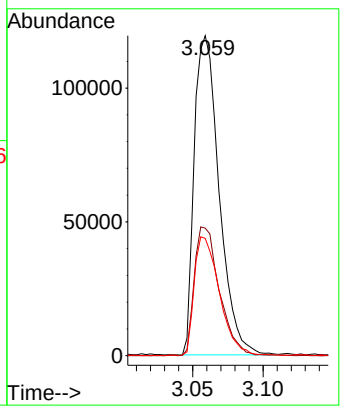


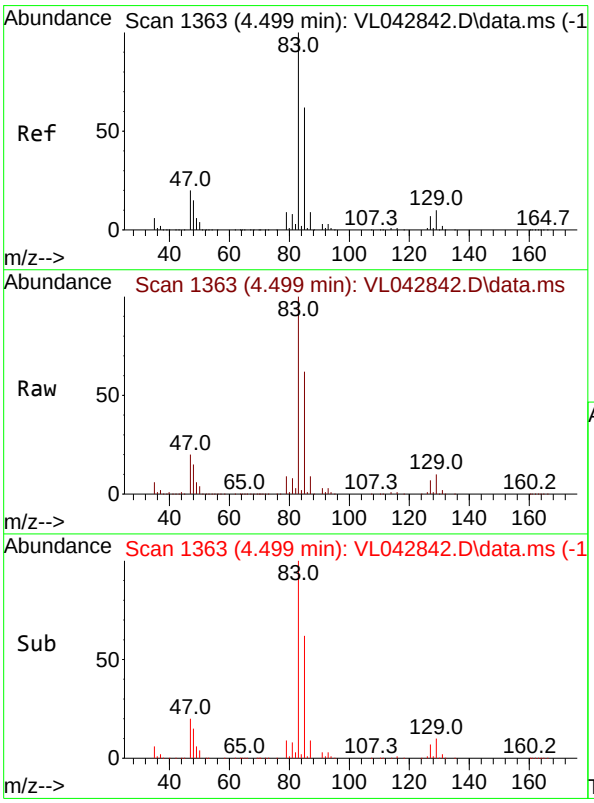
#41
Tetrahydrofuran
Concen: 9.442 ppbv
RT: 3.059 min Scan# 91
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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

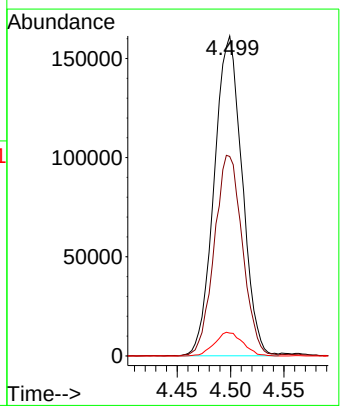


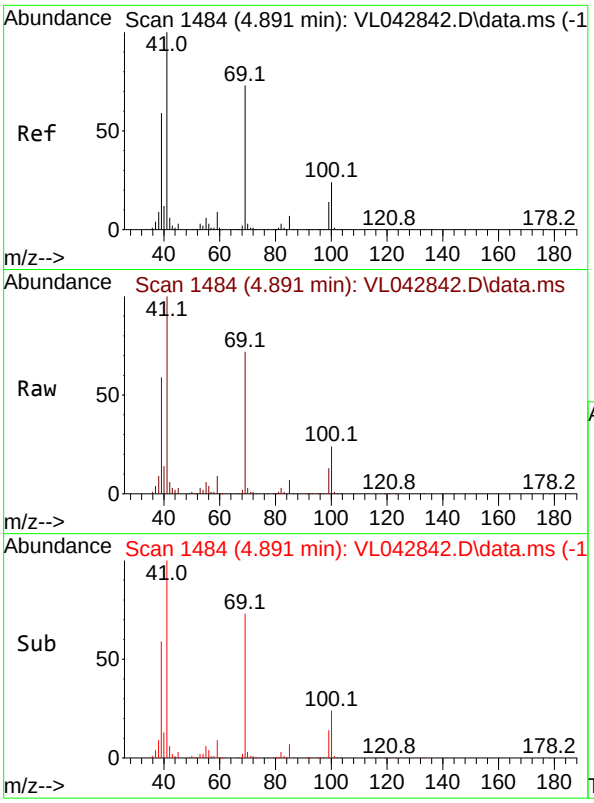


#42
Bromodichloromethane
Concen: 9.499 ppbv
RT: 4.499 min Scan# 1363
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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



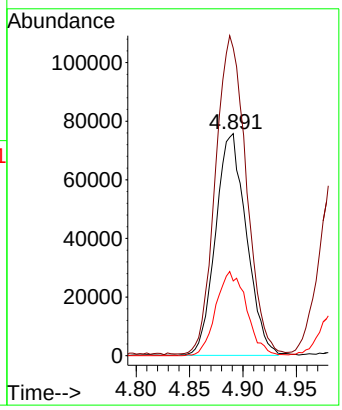


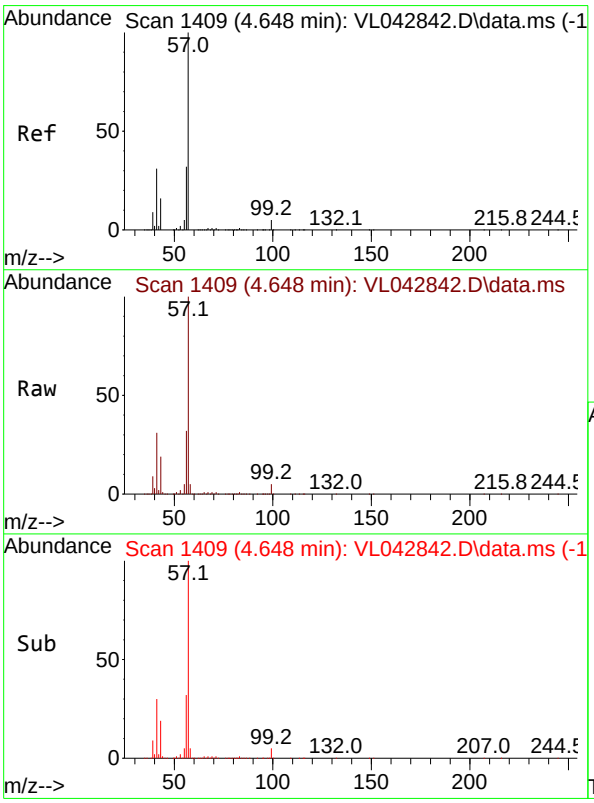
#43
Methyl Methacrylate
Concen: 9.357 ppbv
RT: 4.891 min Scan# 14
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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

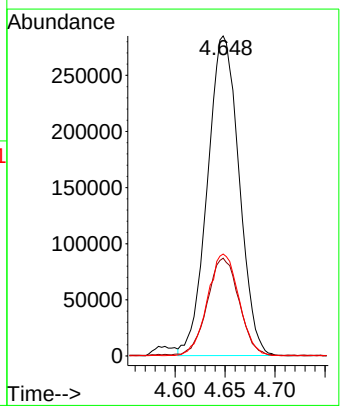


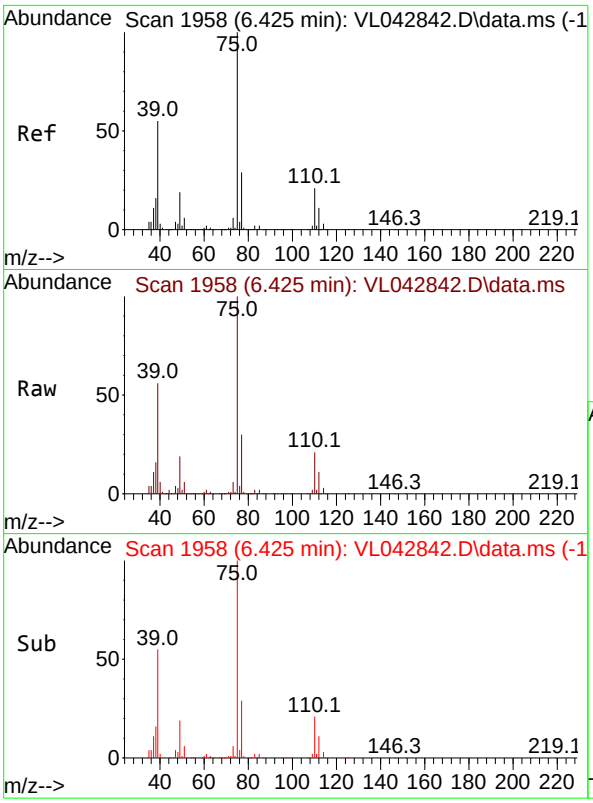


#44
2,2,4-Trimethylpentane
Concen: 9.420 ppbv
RT: 4.648 min Scan# 1409
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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



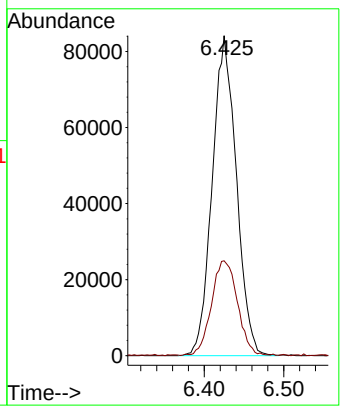


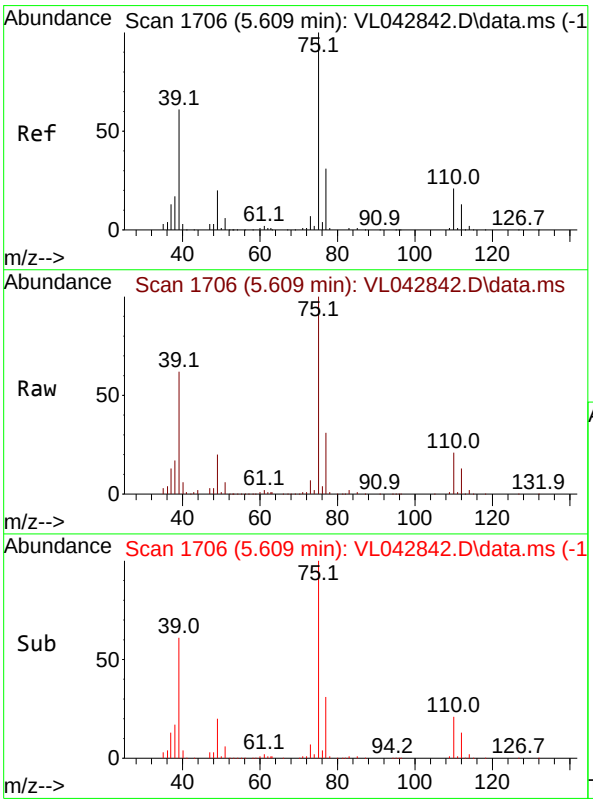
#45
t-1,3-Dichloropropene
Concen: 9.616 ppbv
RT: 6.425 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 75 Resp: 177207

Ion	Ratio	Lower	Upper
75	100		
77	29.7	23.8	35.6

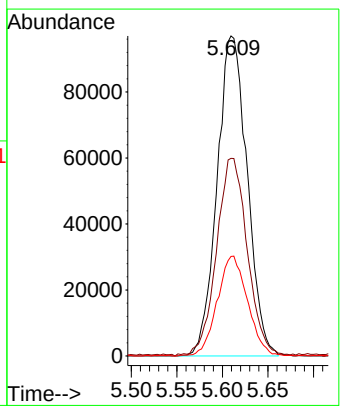


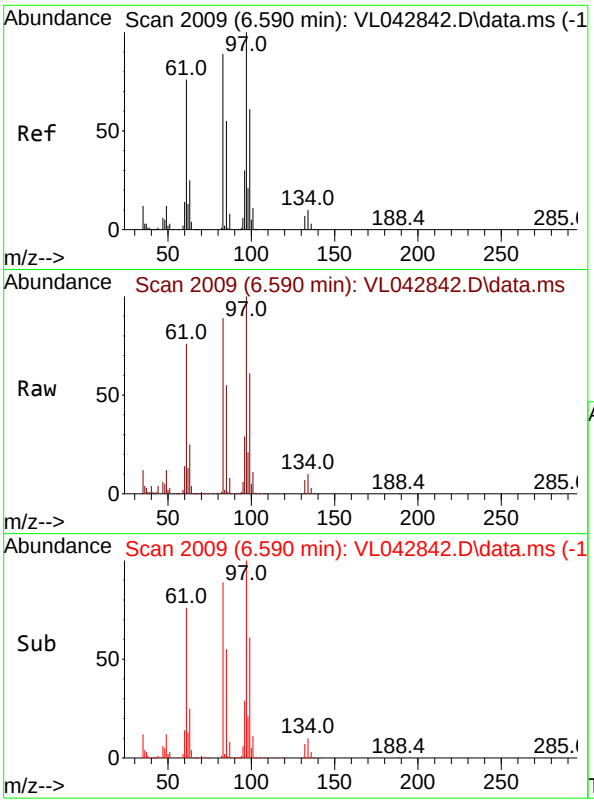


#46
cis-1,3-Dichloropropene
Concen: 9.635 ppbv
RT: 5.609 min Scan# 1706
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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



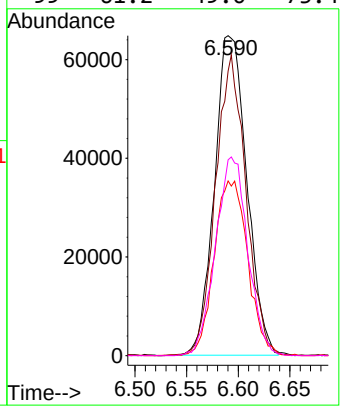


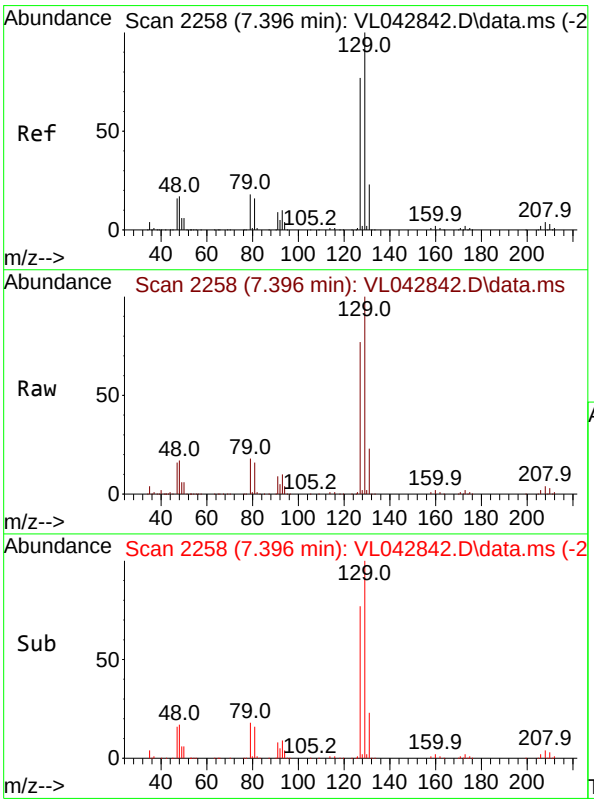
#47
1,1,2-Trichloroethane
Concen: 9.215 ppbv
RT: 6.590 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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

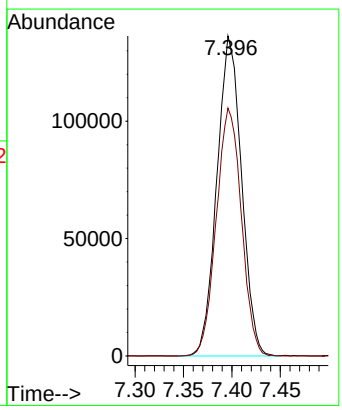


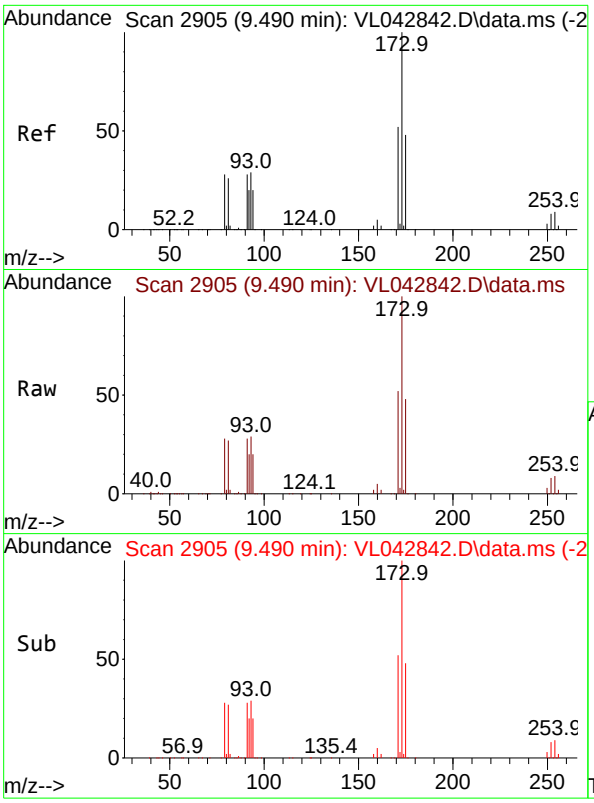


#48
Dibromochloromethane
Concen: 9.739 ppbv
RT: 7.396 min Scan# 2258
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion:129 Resp: 241553

Ion	Ratio	Lower	Upper
129	100		
127	78.8	39.4	118.2



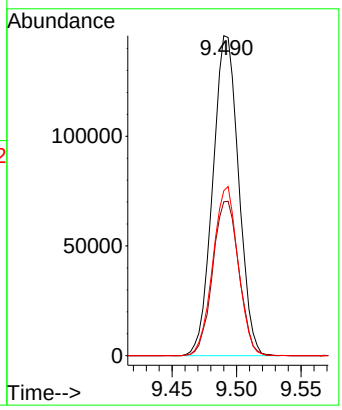


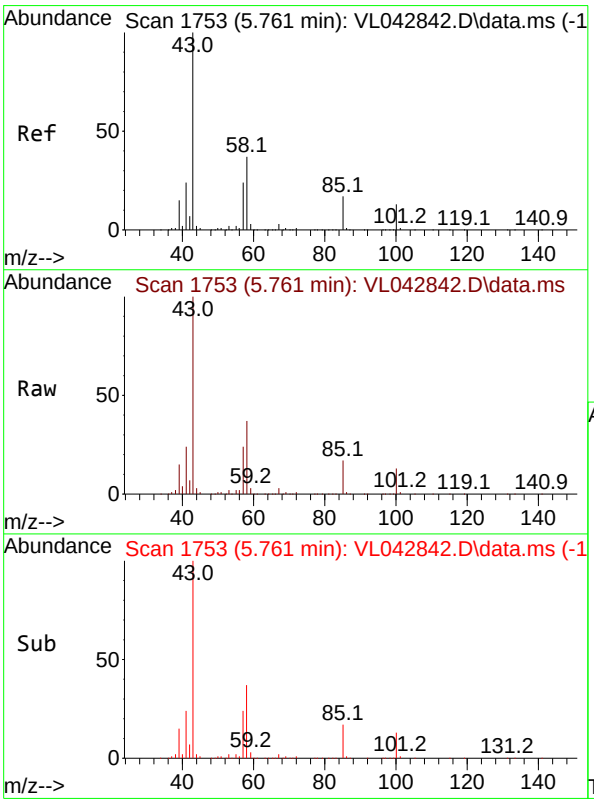
#49
Bromoform
Concen: 9.923 ppbv
RT: 9.490 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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

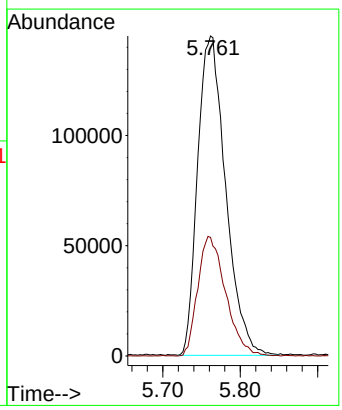


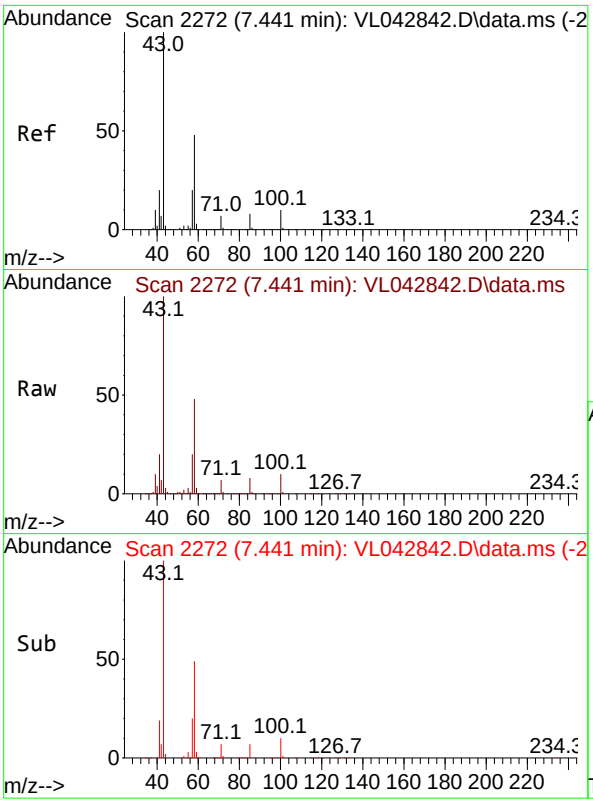


#50
4-Methyl-2-Pentanone
Concen: 9.616 ppbv
RT: 5.761 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 43 Resp: 364306

Ion	Ratio	Lower	Upper
43	100		
58	37.3	29.8	44.8



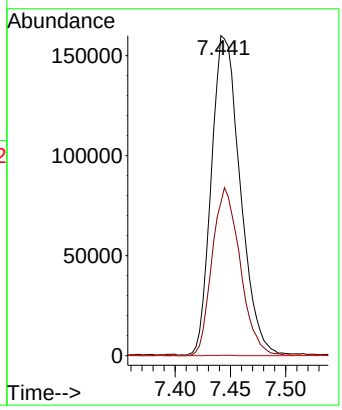


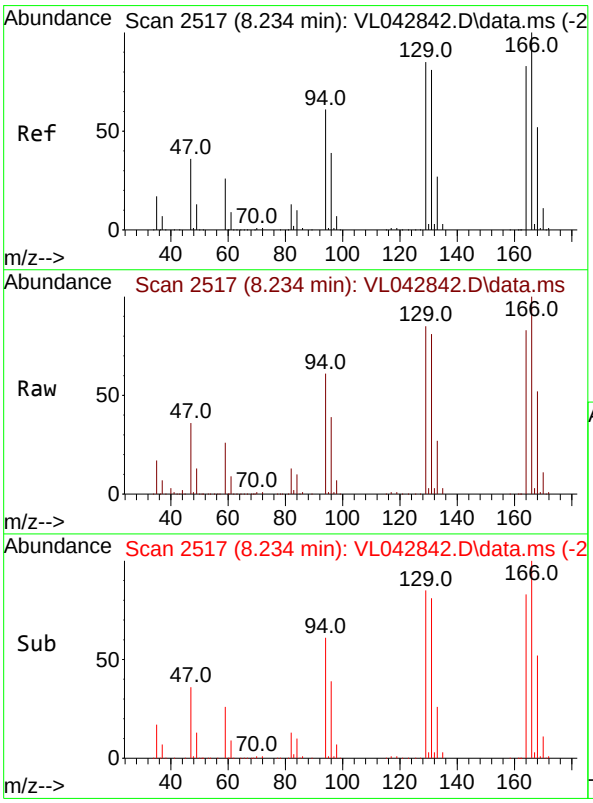
#51
2-Hexanone
Concen: 9.730 ppbv
RT: 7.441 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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#

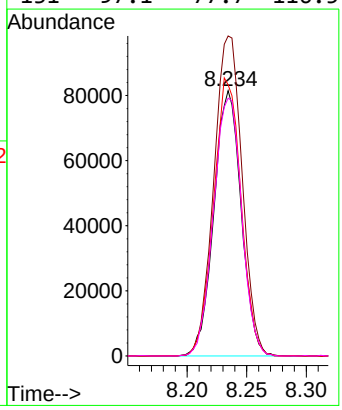


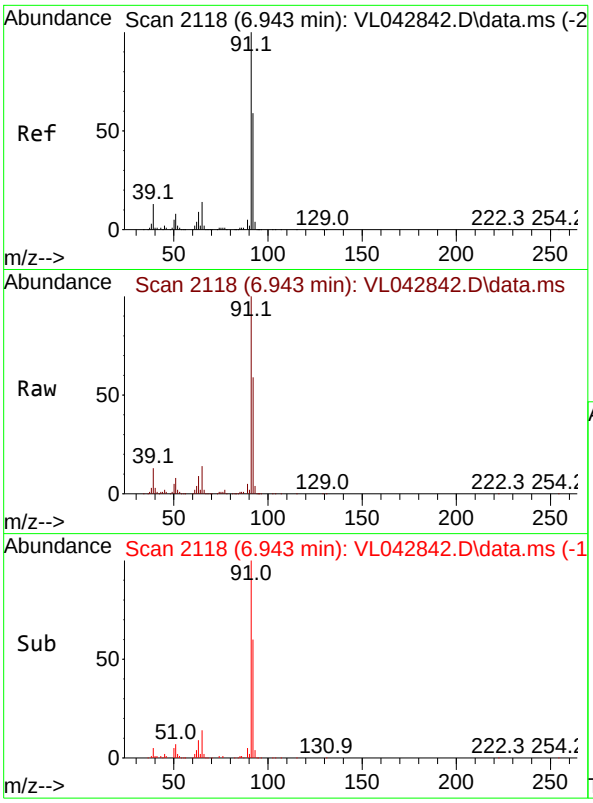


#52
Tetrachloroethene
Concen: 9.026 ppbv
RT: 8.234 min Scan# 2517
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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



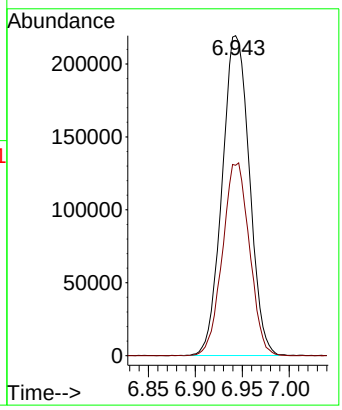


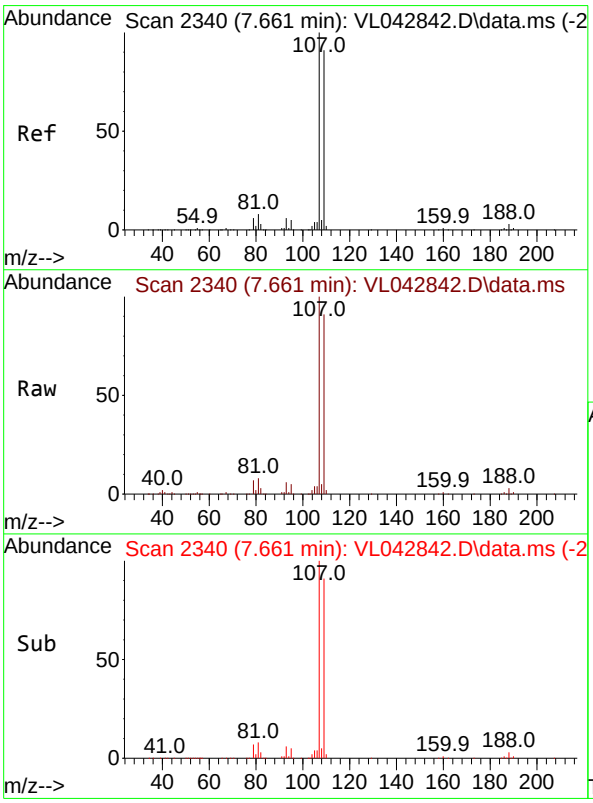
#53
Toluene
Concen: 9.407 ppbv
RT: 6.943 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 91 Resp: 443400

Ion	Ratio	Lower	Upper
91	100		
92	59.7	47.8	71.6

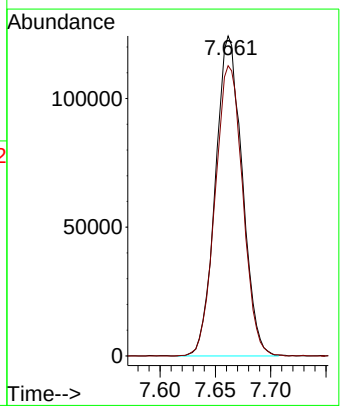


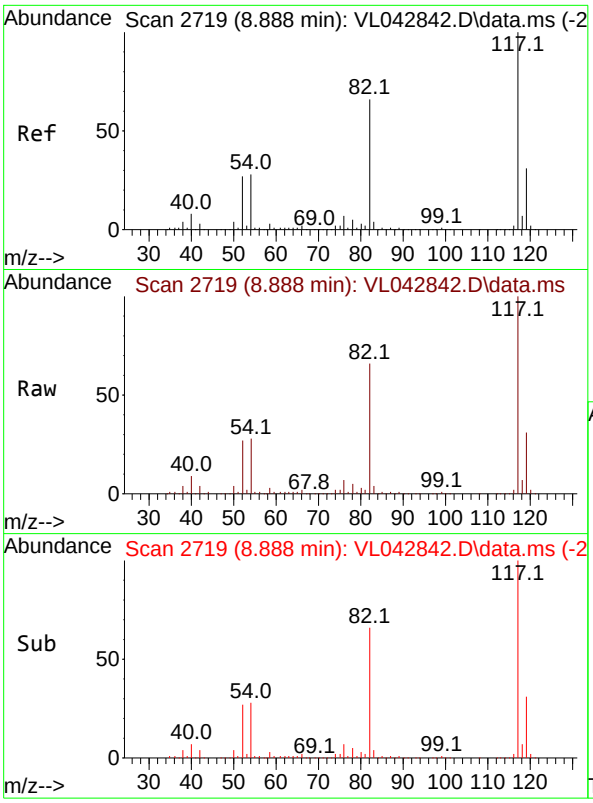


#54
1,2-Dibromoethane
Concen: 9.345 ppbv
RT: 7.661 min Scan# 2340
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion:107 Resp: 209330

Ion	Ratio	Lower	Upper
107	100		
109	90.6	72.5	108.7



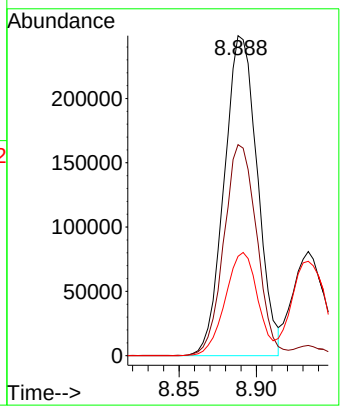


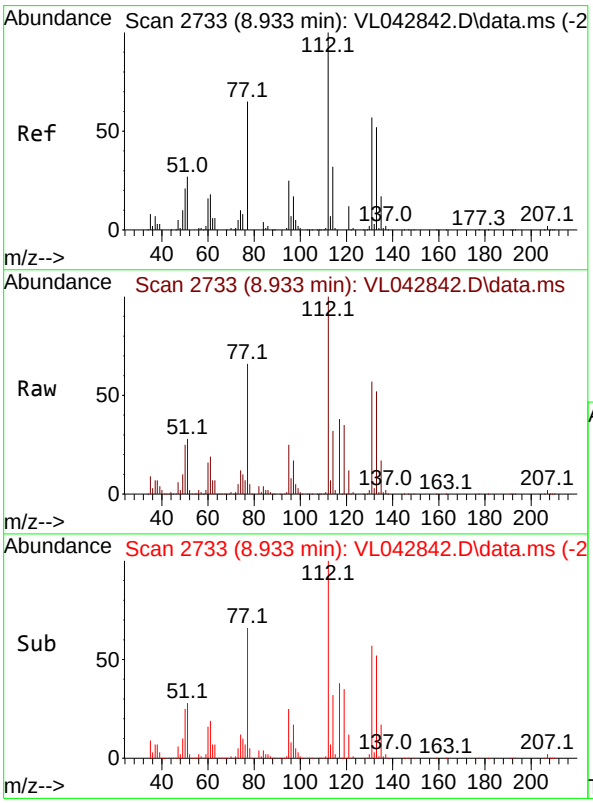
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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

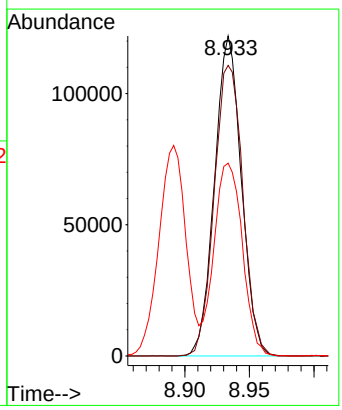


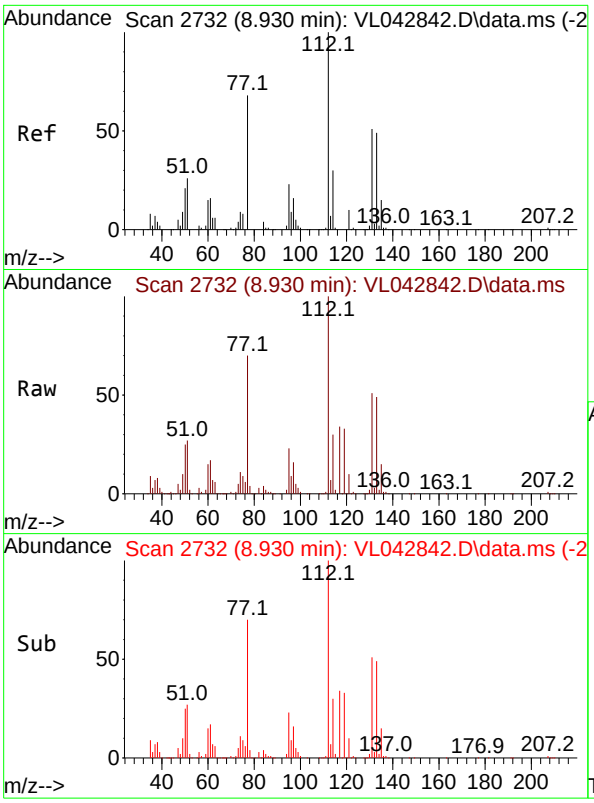


#56
1,1,1,2-Tetrachloroethane
Concen: 9.196 ppbv
RT: 8.933 min Scan# 2733
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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



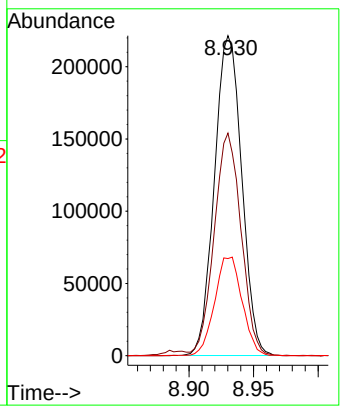


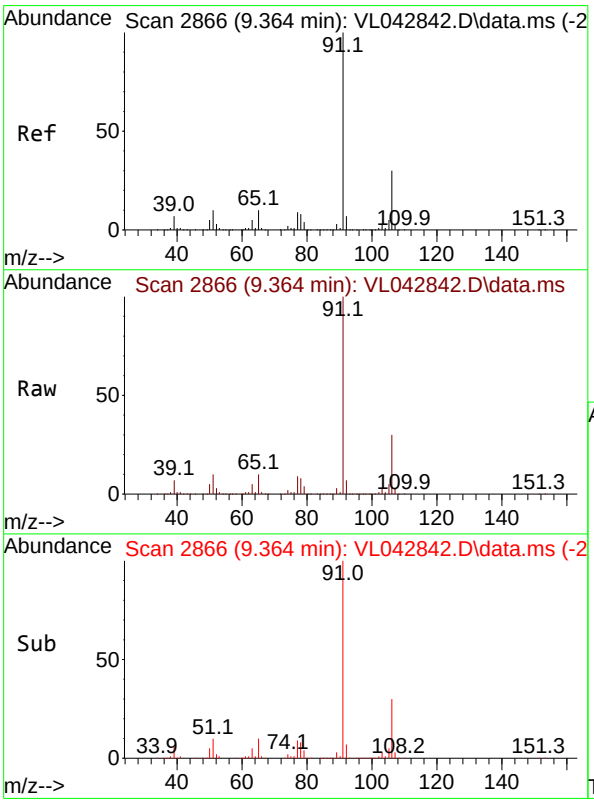
#57
Chlorobenzene
Concen: 9.237 ppbv
RT: 8.930 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:112 Resp: 325303

Ion	Ratio	Lower	Upper
112	100		
77	69.4	55.5	83.3
114	30.2	27.2	33.2

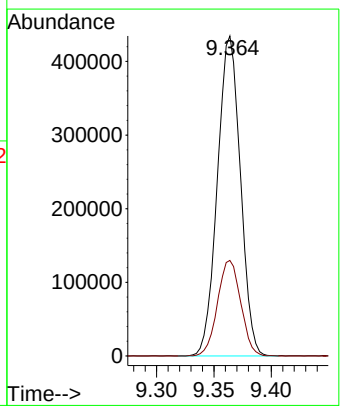


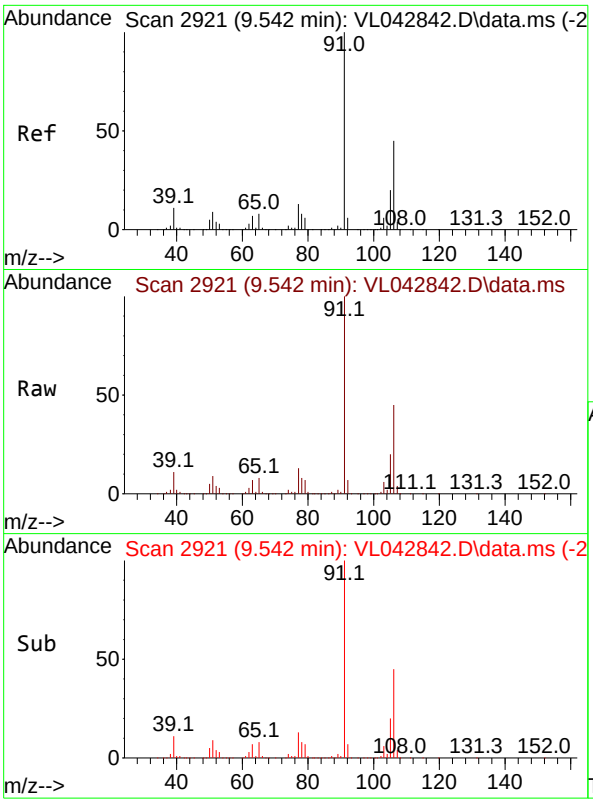


#58
Ethyl Benzene
Concen: 9.268 ppbv
RT: 9.364 min Scan# 2866
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 91 Resp: 605785

Ion	Ratio	Lower	Upper
91	100		
106	29.9	23.9	35.9



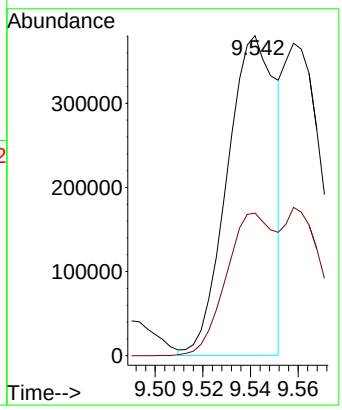


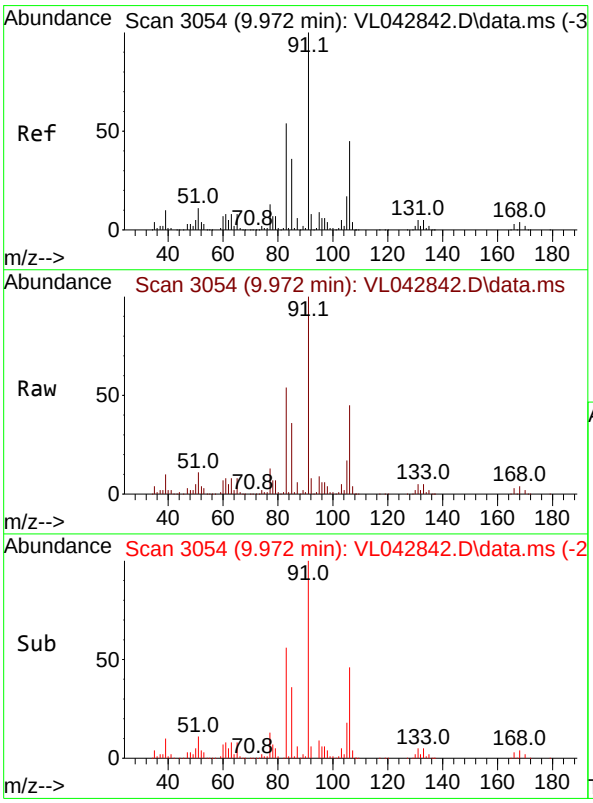
#59
m/p-Xylene
Concen: 10.505 ppbv
RT: 9.542 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 91 Resp: 539072

Ion	Ratio	Lower	Upper
91	100		
106	0.0	0.0	0.0

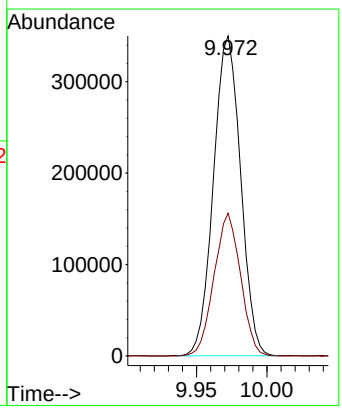


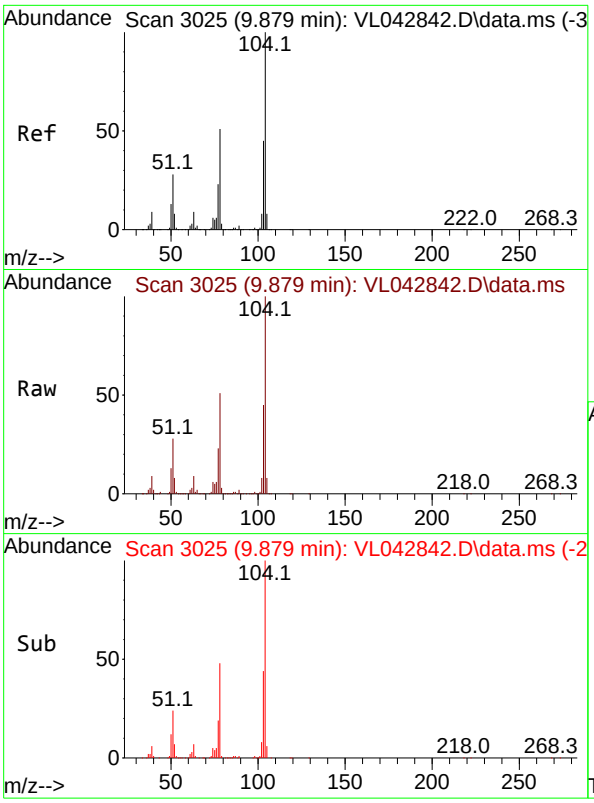


#60
o-Xylene
Concen: 9.102 ppbv
RT: 9.972 min Scan# 3054
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion: 91 Resp: 469073

Ion	Ratio	Lower	Upper
91	100		
106	43.6	21.8	65.4



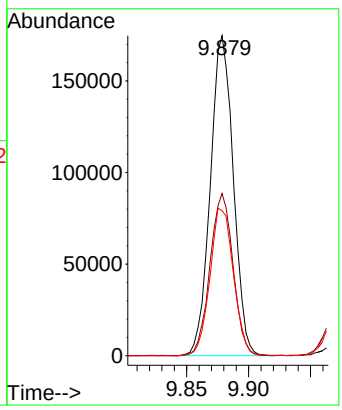


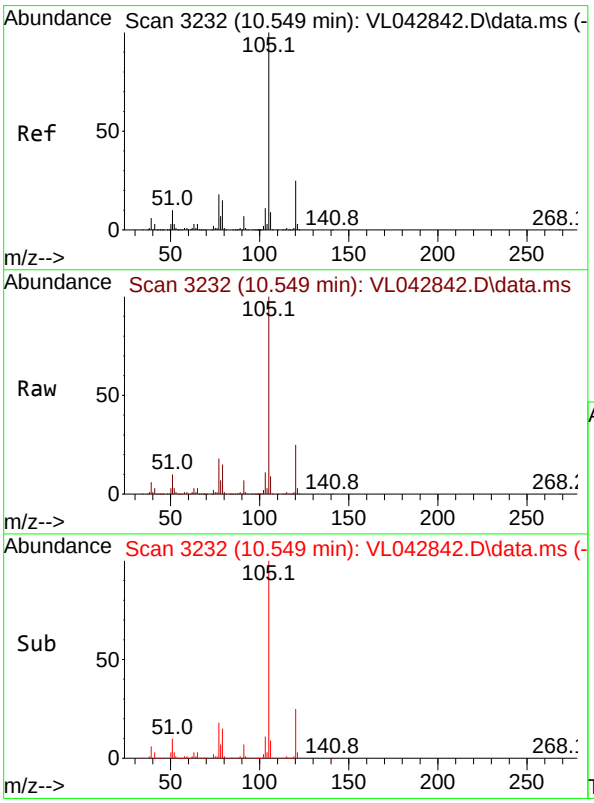
#61
Styrene
Concen: 9.362 ppbv
RT: 9.879 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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

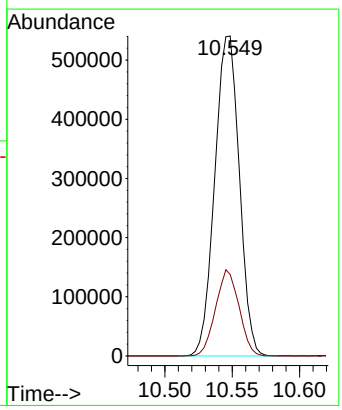


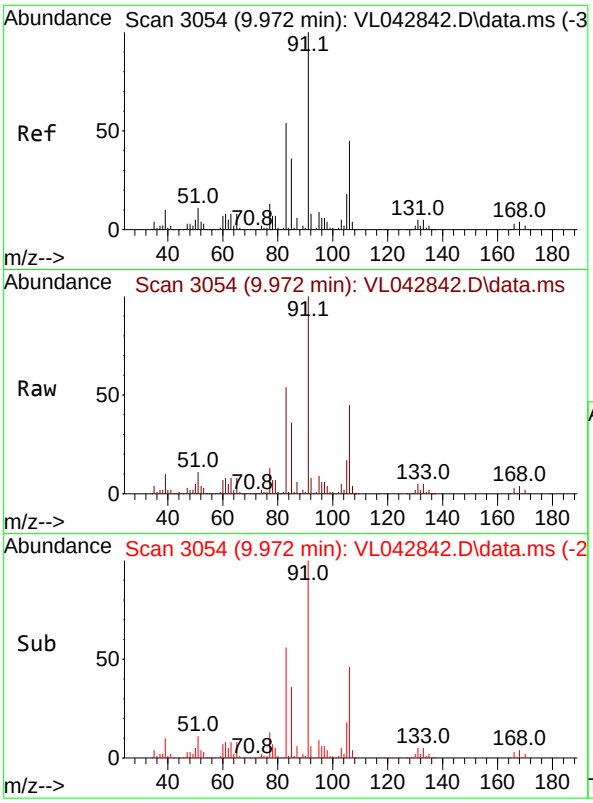


#62
Isopropylbenzene
Concen: 9.108 ppbv
RT: 10.549 min Scan# 3232
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion:105 Resp: 685983

Ion	Ratio	Lower	Upper
105	100		
120	25.7	20.6	30.8



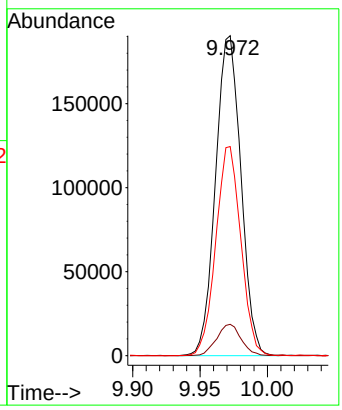


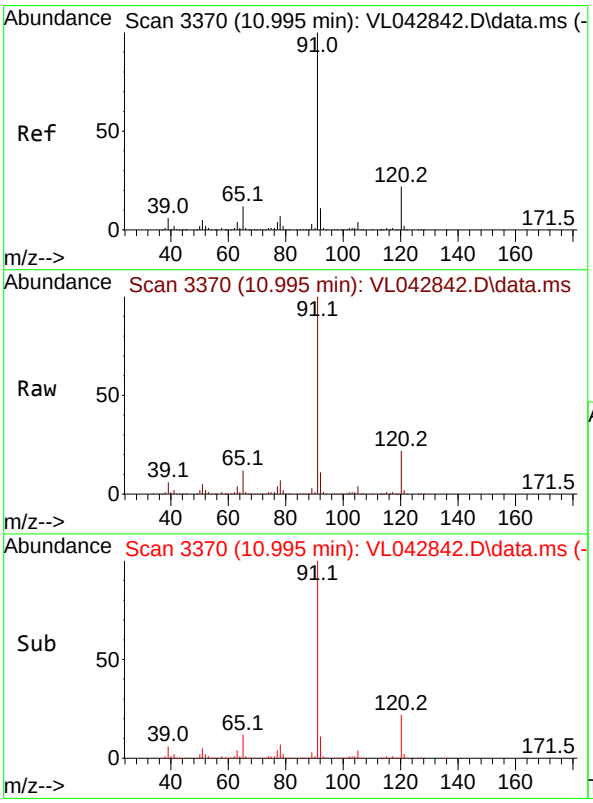
#63
1,1,2,2-Tetrachloroethane
Concen: 8.870 ppbv
RT: 9.972 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 83 Resp: 249621

Ion	Ratio	Lower	Upper
83	100		
131	9.5	4.8	14.3
85	64.5	32.3	96.8

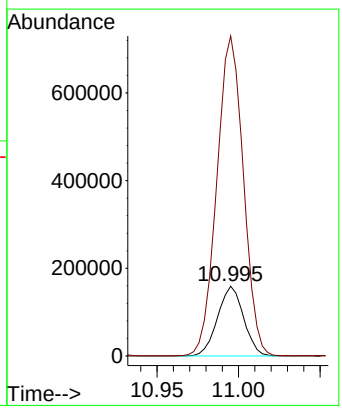


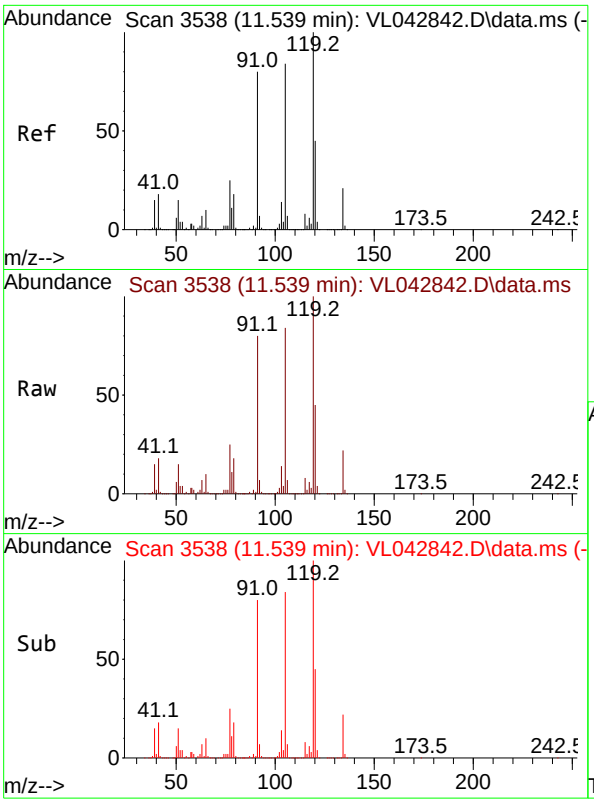


#64
n-propylbenzene
Concen: 9.158 ppbv
RT: 10.995 min Scan# 3370
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Tgt Ion:120 Resp: 175986

Ion	Ratio	Lower	Upper
120	100		
91	469.7	375.8	563.6



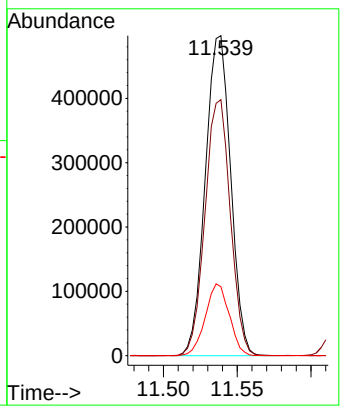


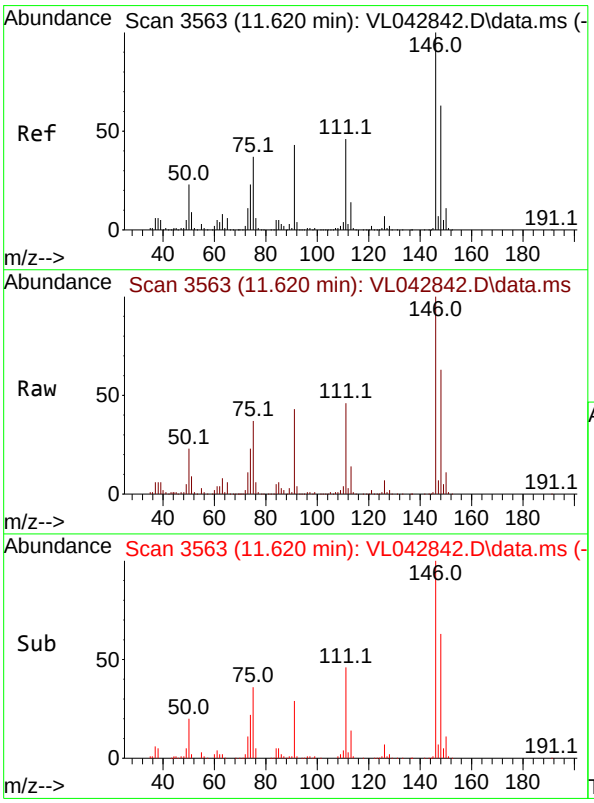
#65
tert-Butylbenzene
Concen: 8.951 ppbv
RT: 11.539 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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

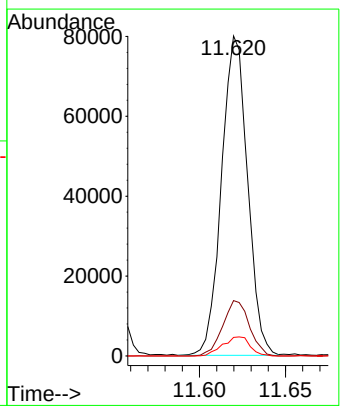


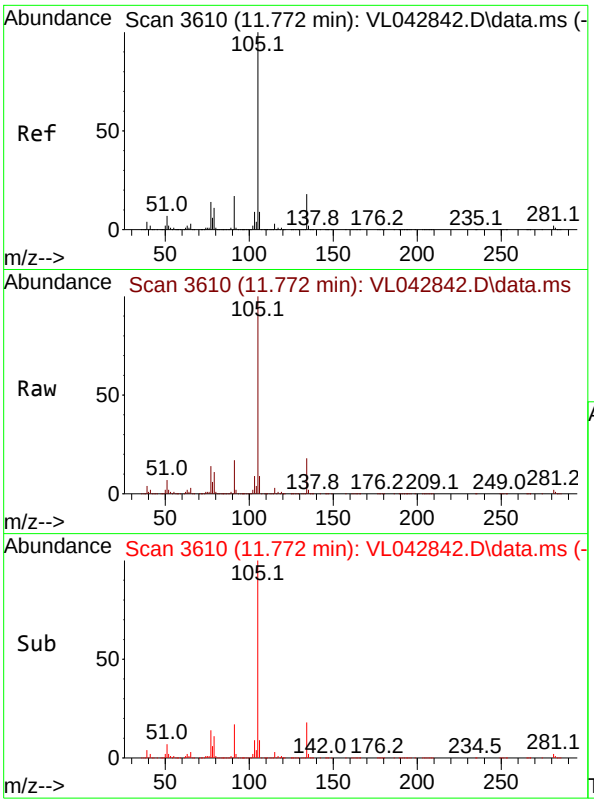


#66
Benzyl Chloride
Concen: 9.985 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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



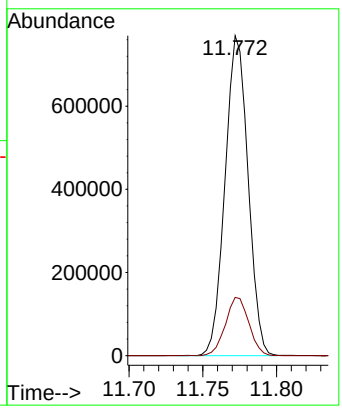


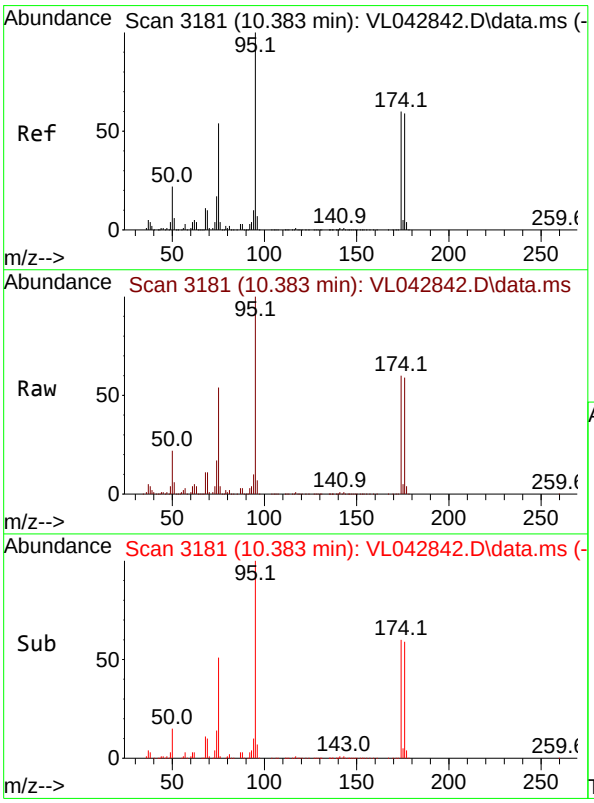
#67
sec-Butylbenzene
Concen: 8.943 ppbv
RT: 11.772 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:105 Resp: 833378

Ion	Ratio	Lower	Upper
105	100		
134	18.6	14.9	22.3

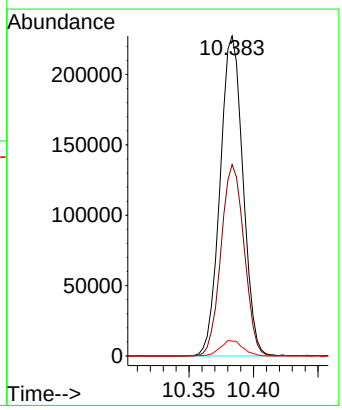


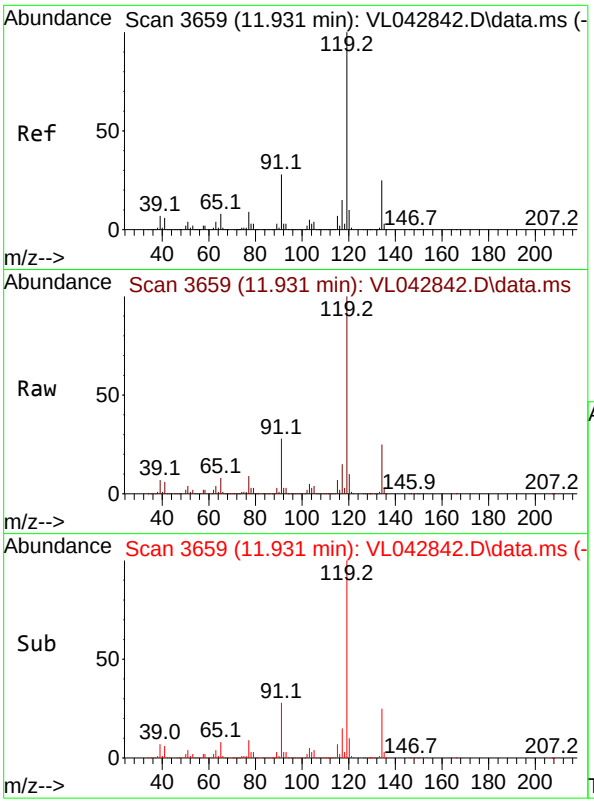


#68
1-Bromo-4-Fluorobenzene
Concen: 10.064 ppbv
RT: 10.383 min Scan# 3181
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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



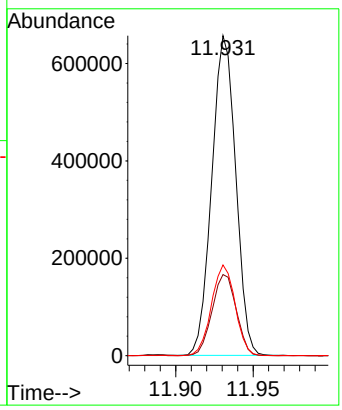


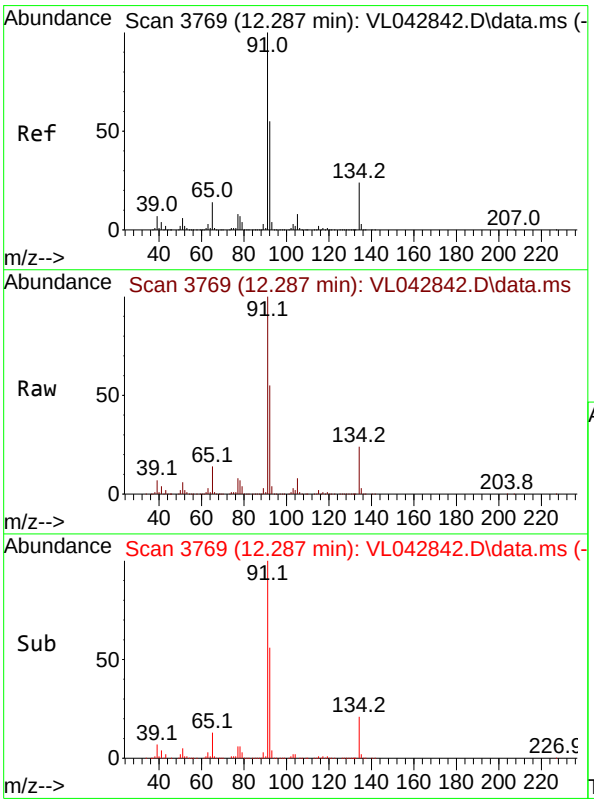
#69
p-Isopropyltoluene
Concen: 8.820 ppbv
RT: 11.931 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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

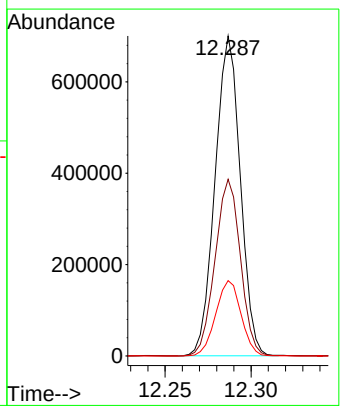


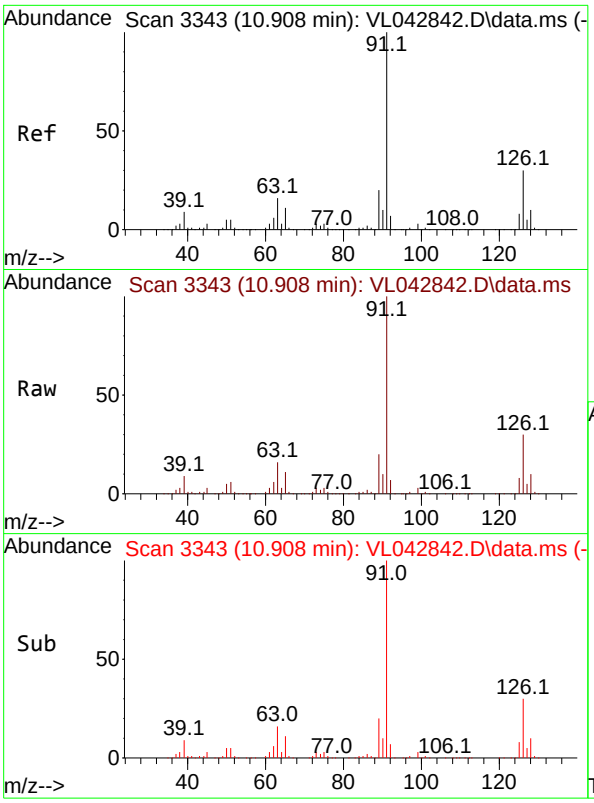


#70
n-Butylbenzene
Concen: 8.995 ppbv
RT: 12.287 min Scan# 3769
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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



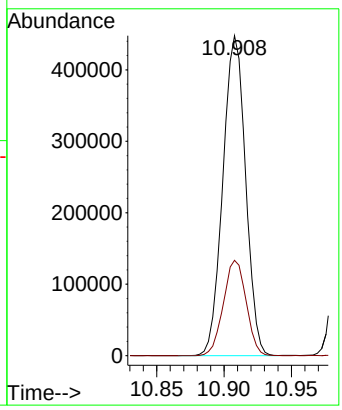


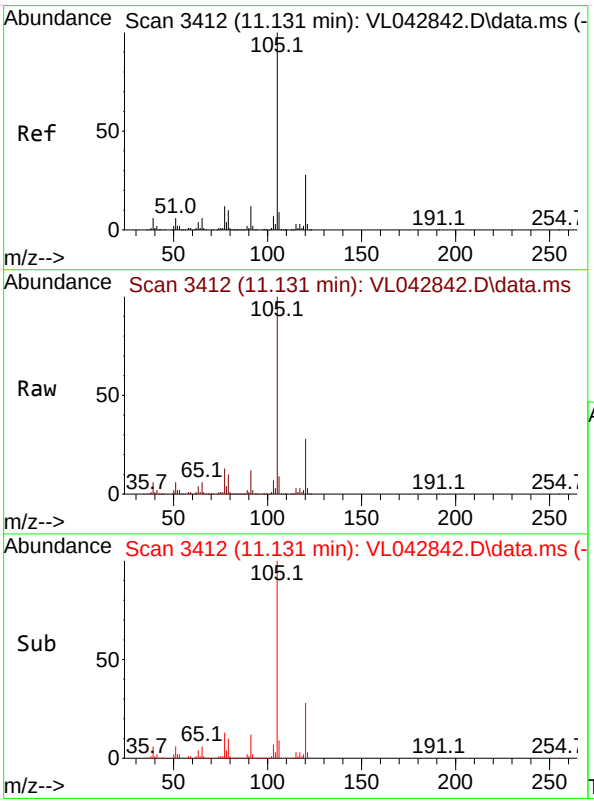
#71
2-Chlorotoluene
Concen: 8.981 ppbv
RT: 10.908 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 91 Resp: 525235

Ion	Ratio	Lower	Upper
91	100		
126	29.9	12.0	47.8

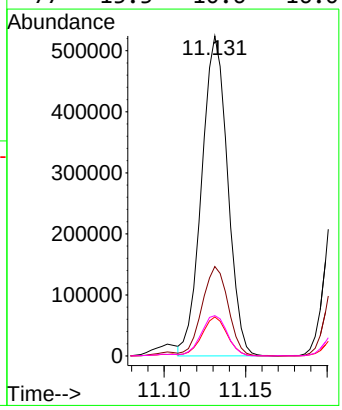


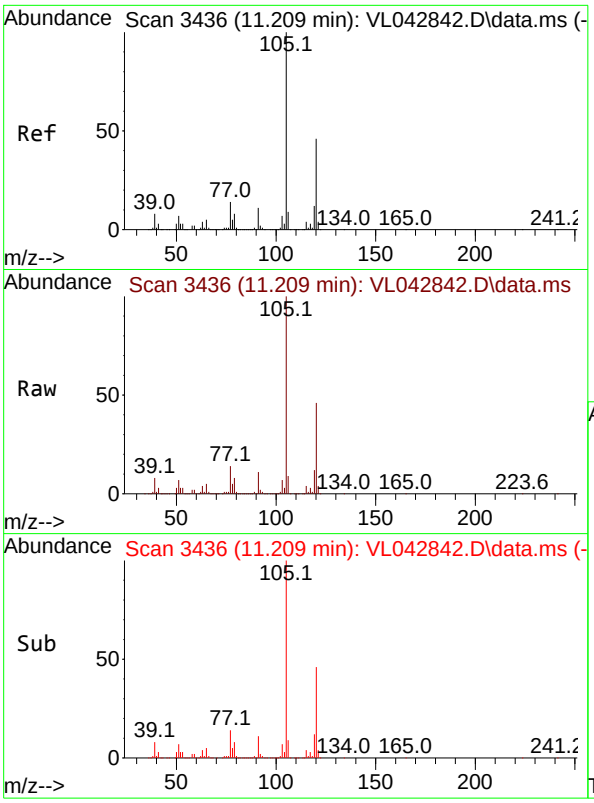


#72
4-Ethyltoluene
Concen: 9.267 ppbv
RT: 11.131 min Scan# 3412
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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



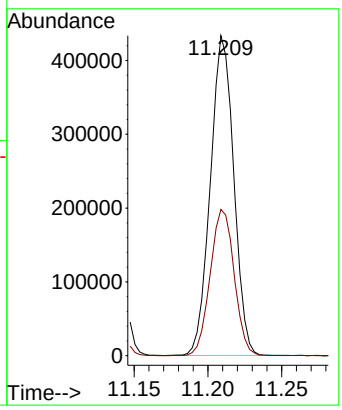


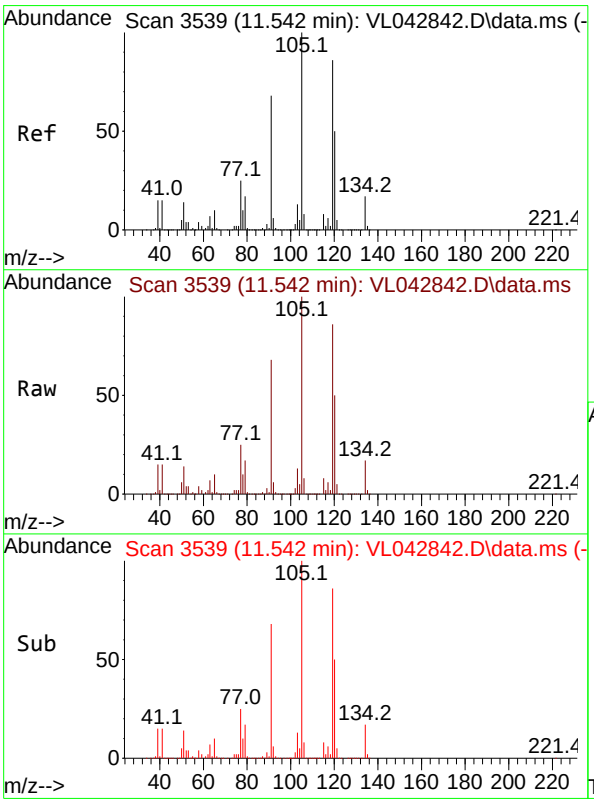
#73
1,3,5-Trimethylbenzene
Concen: 9.012 ppbv
RT: 11.209 min Scan# 34
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:105 Resp: 478784

Ion	Ratio	Lower	Upper
105	100		
120	45.7	36.6	54.8

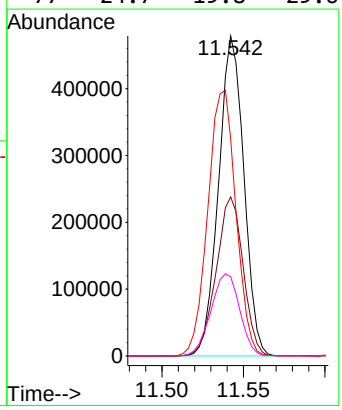


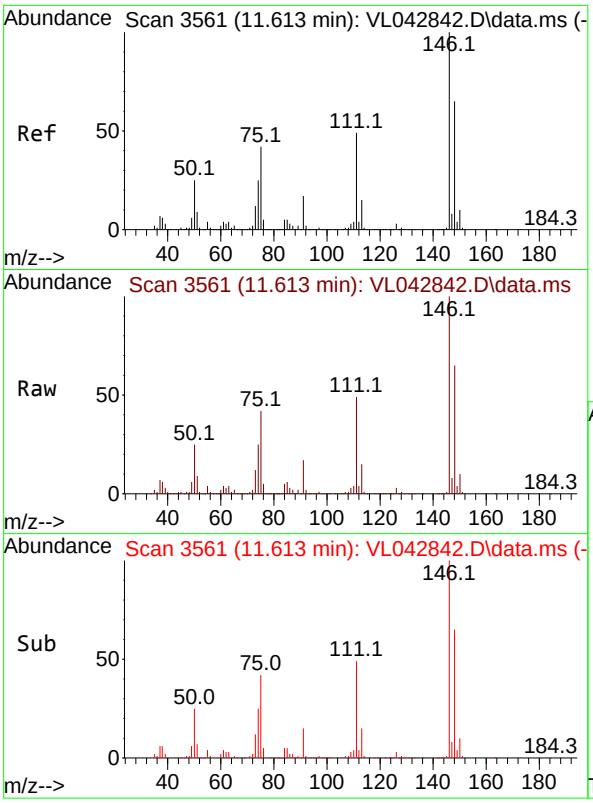


#74
1,2,4-Trimethylbenzene
Concen: 8.853 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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



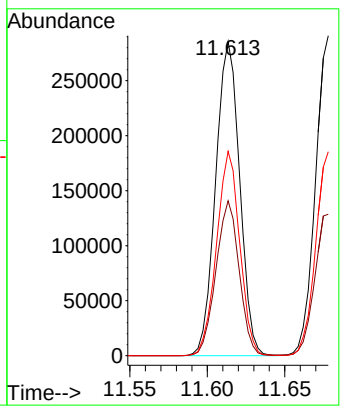


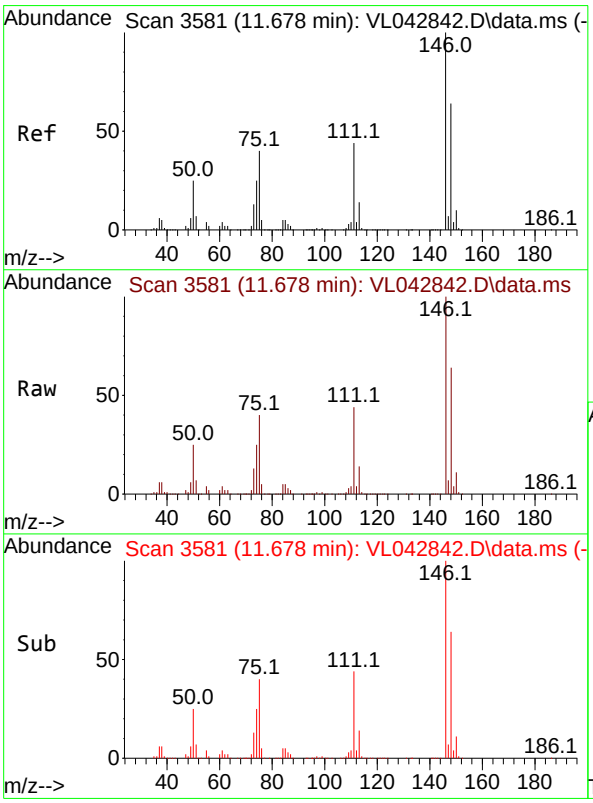
#75
1,3-Dichlorobenzene
Concen: 9.280 ppbv
RT: 11.613 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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

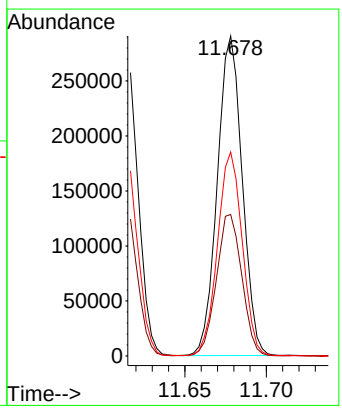


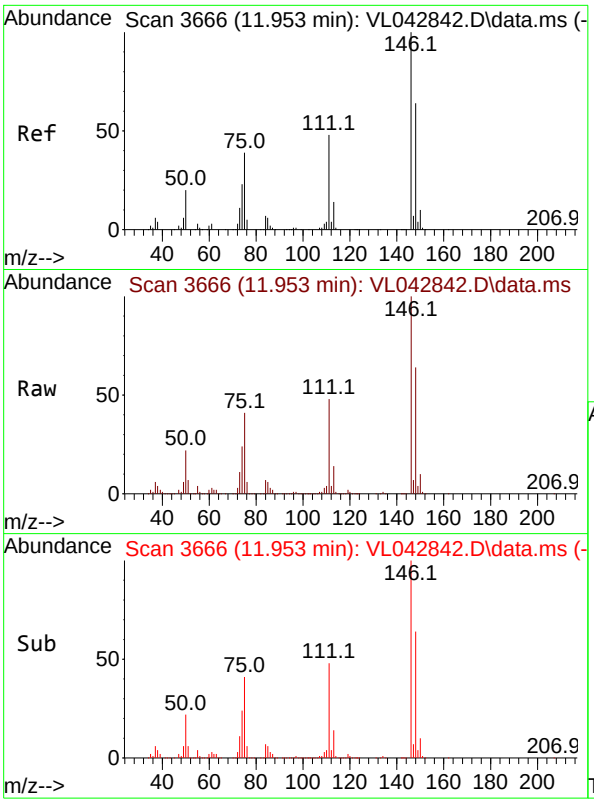


#76
1,4-Dichlorobenzene
Concen: 9.203 ppbv
RT: 11.678 min Scan# 3581
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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



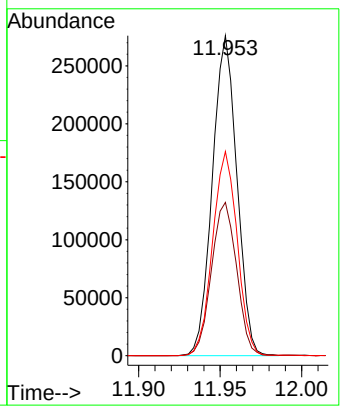


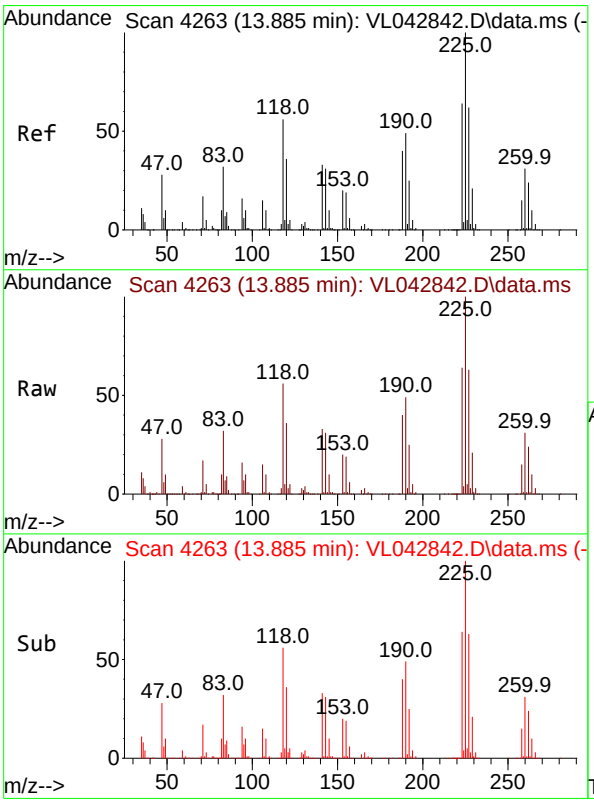
#77
1,2-Dichlorobenzene
Concen: 8.907 ppbv
RT: 11.953 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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

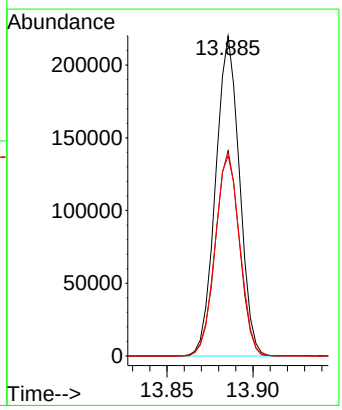


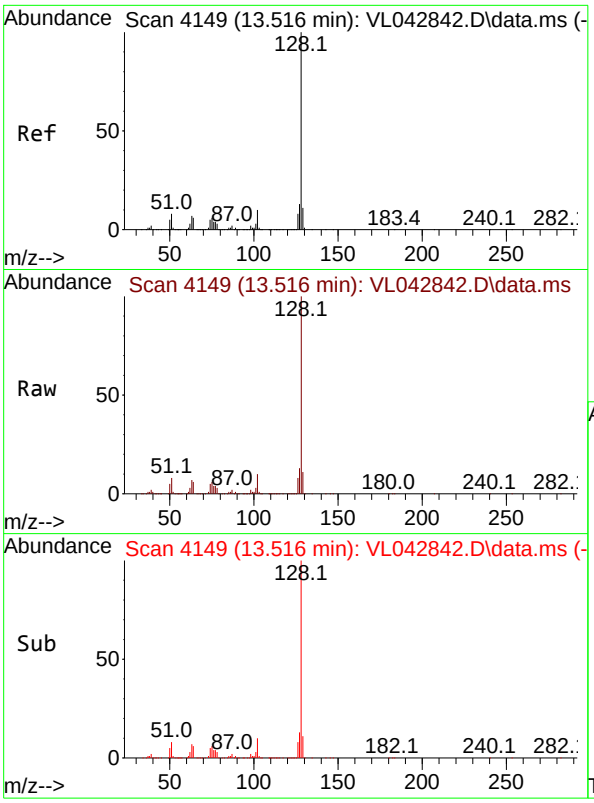


#78
Hexachloro-1,3-Butadiene
Concen: 7.968 ppbv
RT: 13.885 min Scan# 4263
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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



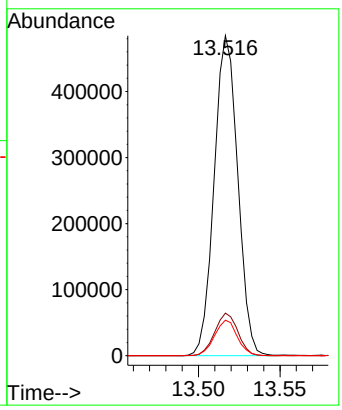


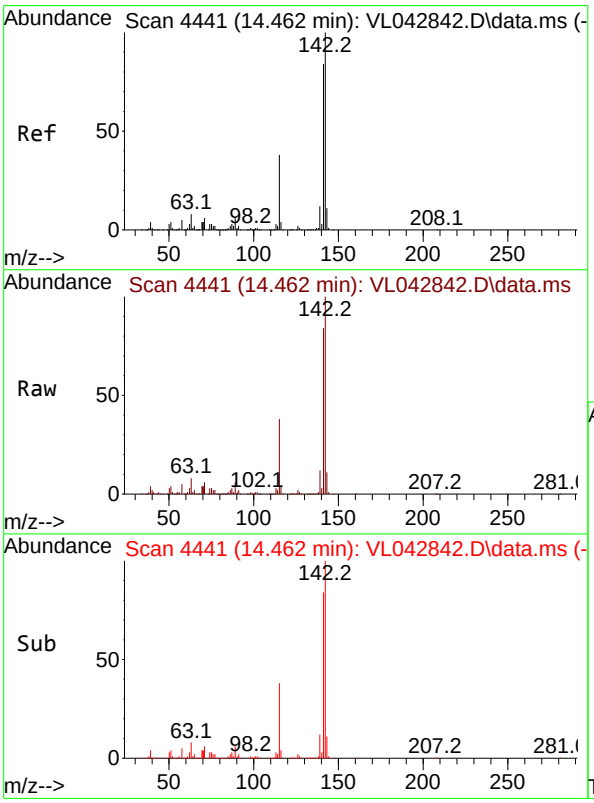
#79
Naphthalene
Concen: 9.335 ppbv
RT: 13.516 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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

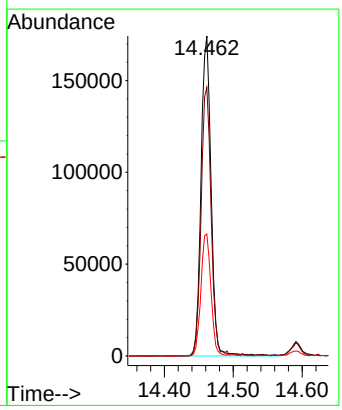


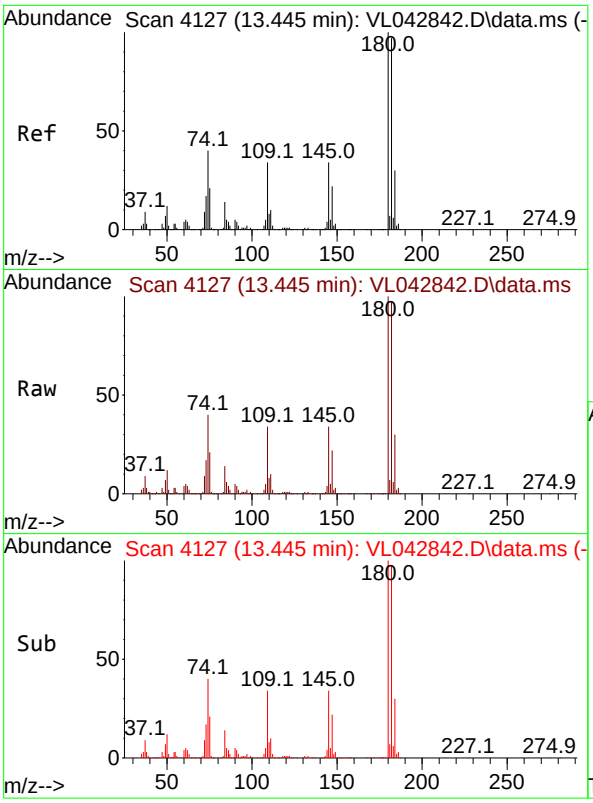


#80
Naphthalene,2-methyl-
Concen: 9.000 ppbv
RT: 14.462 min Scan# 4441
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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



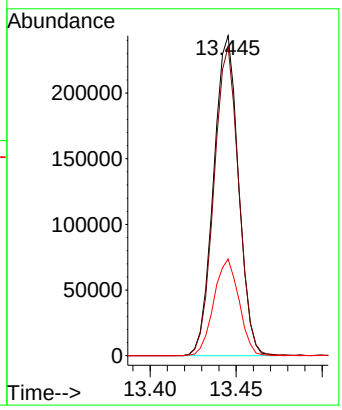


#81
1,2,4-Trichlorobenzene
Concen: 9.220 ppbv
RT: 13.445 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042842.D
Acq: 13 Aug 2025 08:30

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



Quantitation Report (Not Reviewed)

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_LFri 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

Quantitation Report (Not Reviewed)

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_LFri 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

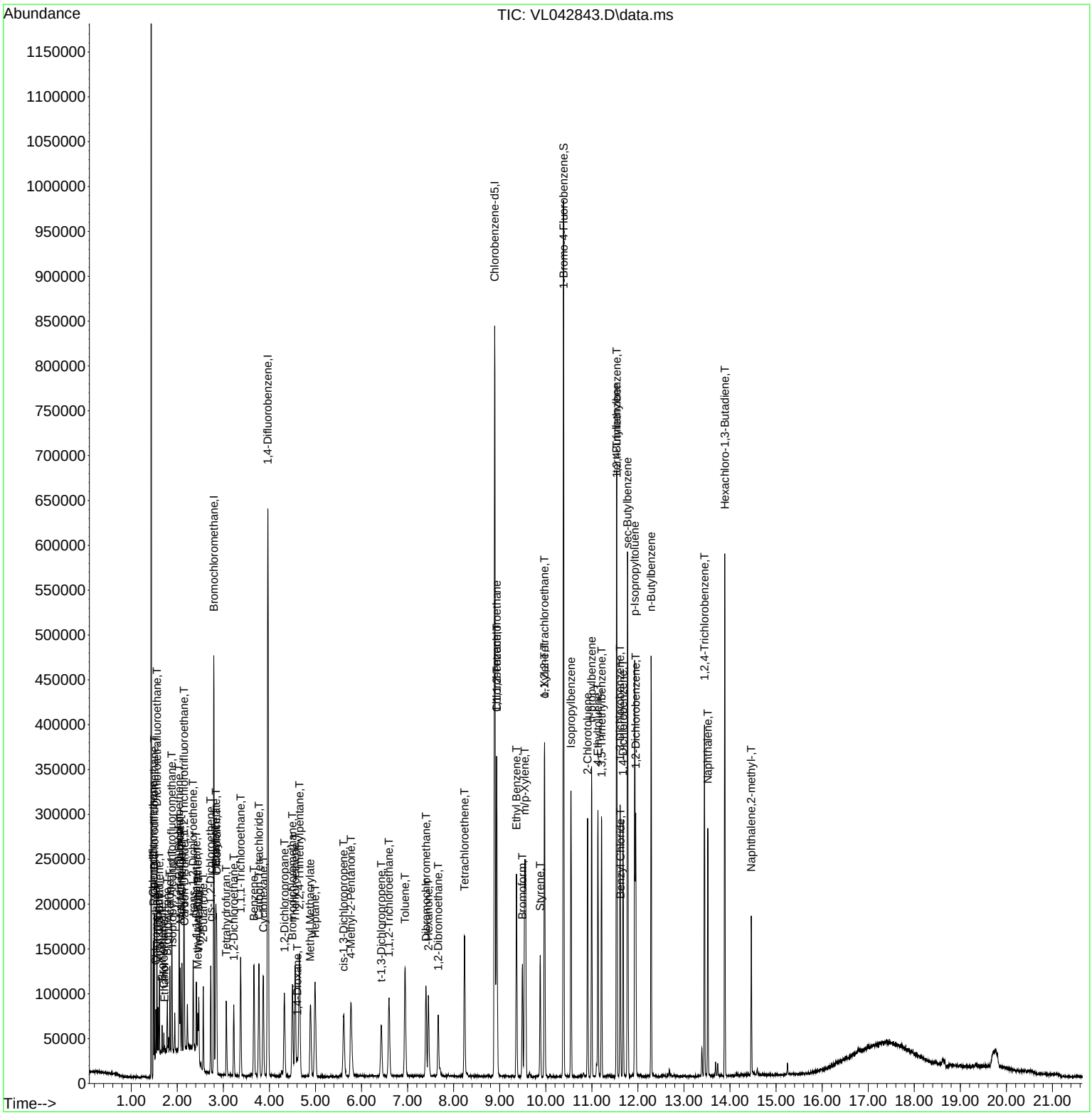
(#) = qualifier out of range (m) = manual integration (+) = signals summed

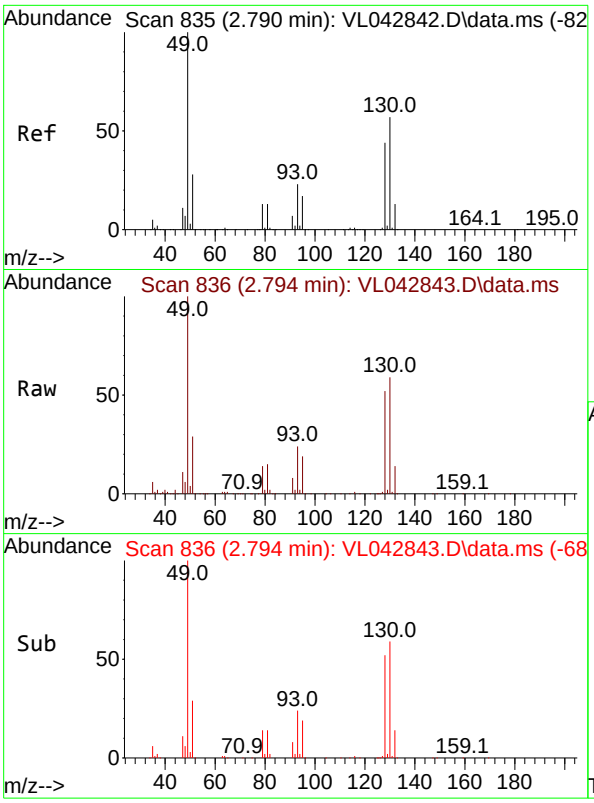
Quantitation Report (Not Reviewed)

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_LFri Aug 26 06:05:16 2022
QLast Update : Thu Aug 14 01:44:36 2025
Response via : Initial Calibration



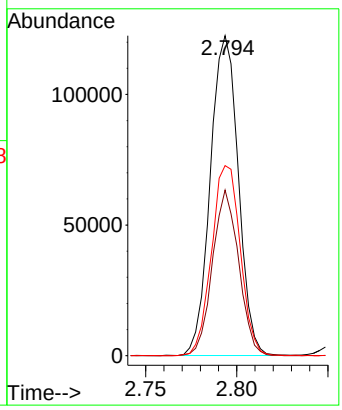


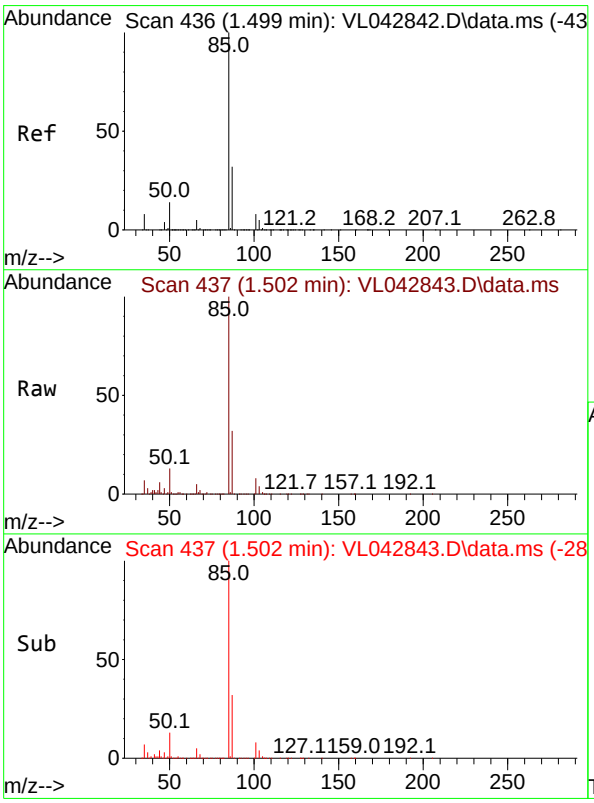
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.794 min Scan# 8
Delta R.T. 0.004 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 49 Resp: 130555

Ion	Ratio	Lower	Upper
49	100		
128	48.7	23.7	71.1
130	61.3	30.6	91.6

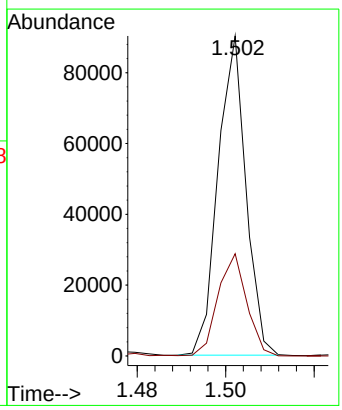


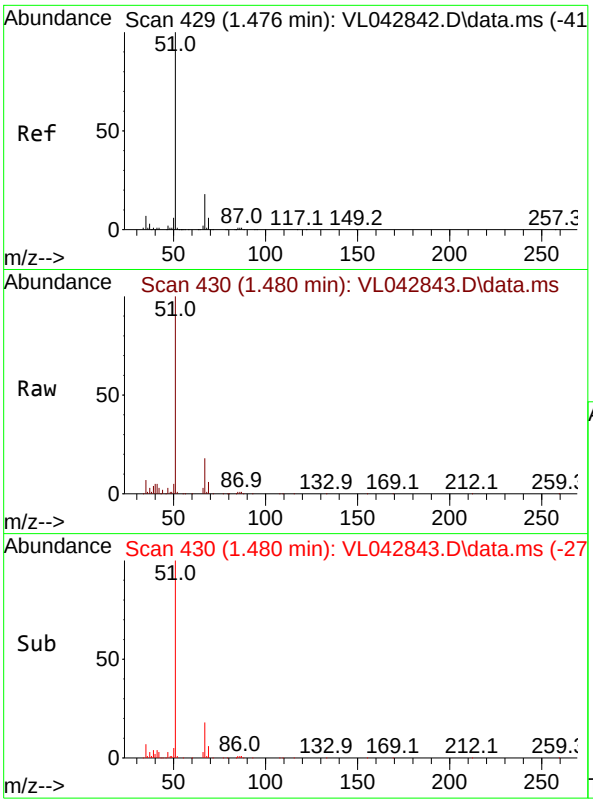


#2
Dichlorodifluoromethane
Concen: 2.061 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 85 Resp: 39443

Ion	Ratio	Lower	Upper
85	100		
87	32.0	25.3	37.9



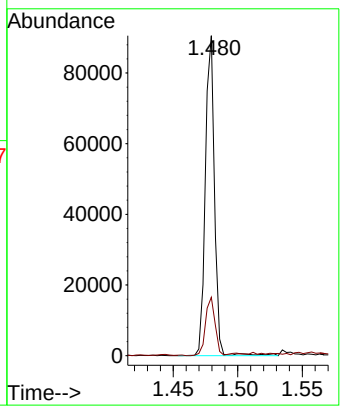


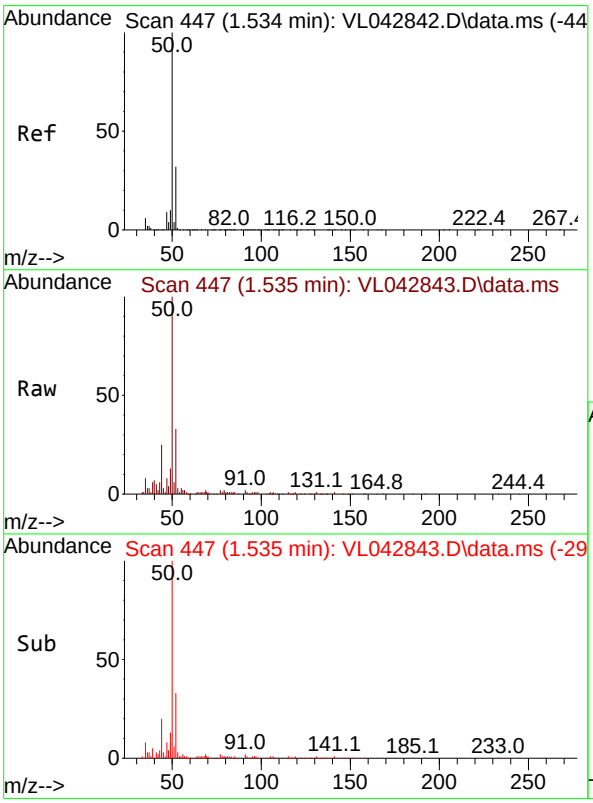
#3
Chlorodifluoromethane
Concen: 2.114 ppbv
RT: 1.480 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 51 Resp: 44759

Ion	Ratio	Lower	Upper
51	100		
67	20.3	14.9	22.3

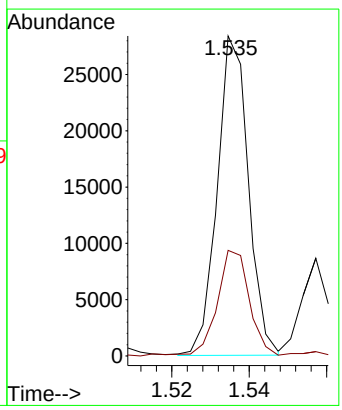


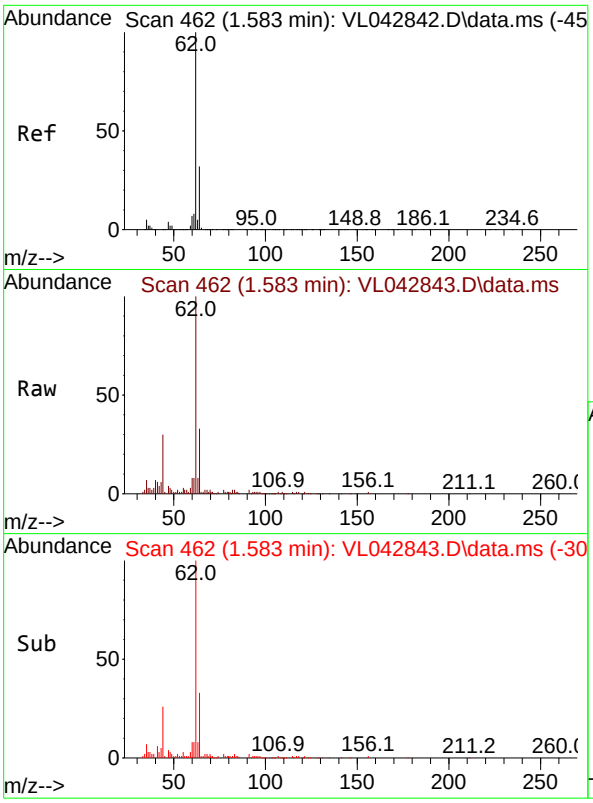


#4
Chloromethane
Concen: 2.050 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 50 Resp: 15826

Ion	Ratio	Lower	Upper
50	100		
52	33.0	25.9	38.9



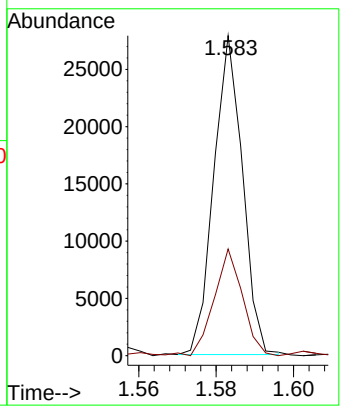


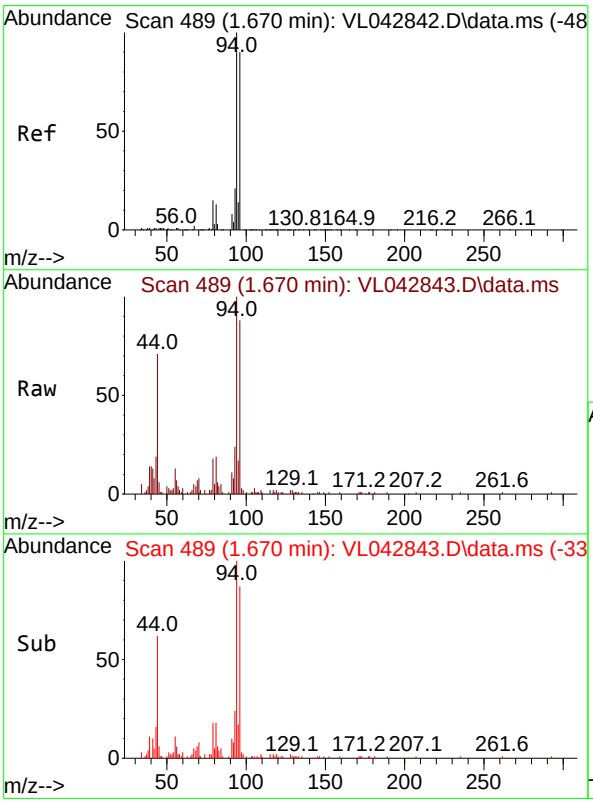
#5
Vinyl Chloride
Concen: 1.888 ppbv
RT: 1.583 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 62 Resp: 14358

Ion	Ratio	Lower	Upper
62	100		
64	33.5	25.4	38.2

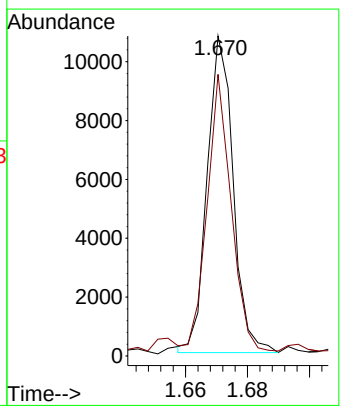


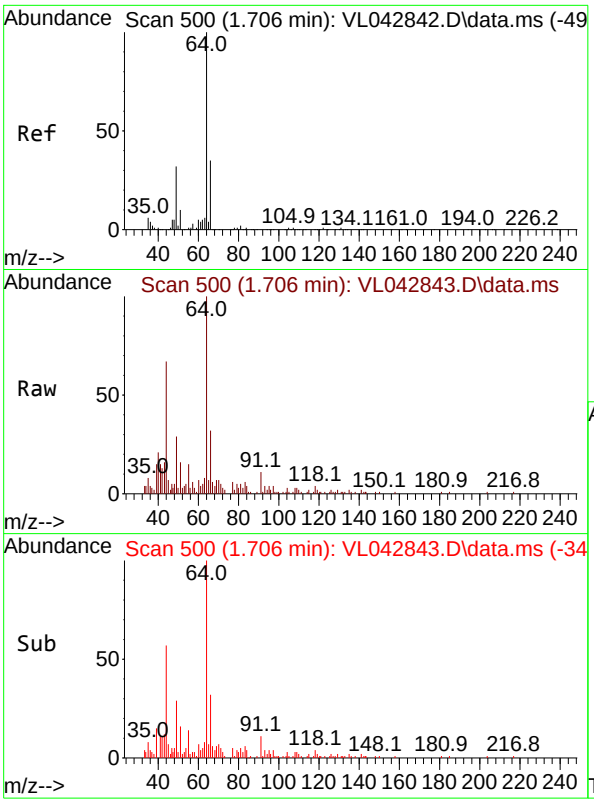


#6
Bromomethane
Concen: 2.055 ppbv
RT: 1.670 min Scan# 489
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 94 Resp: 6248

Ion	Ratio	Lower	Upper
94	100		
96	87.4	72.1	108.1



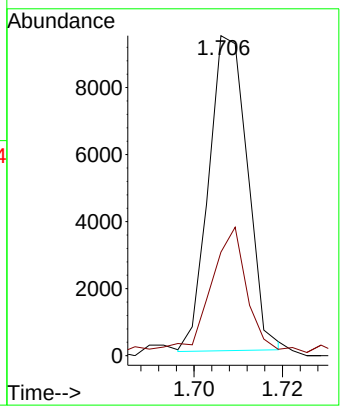


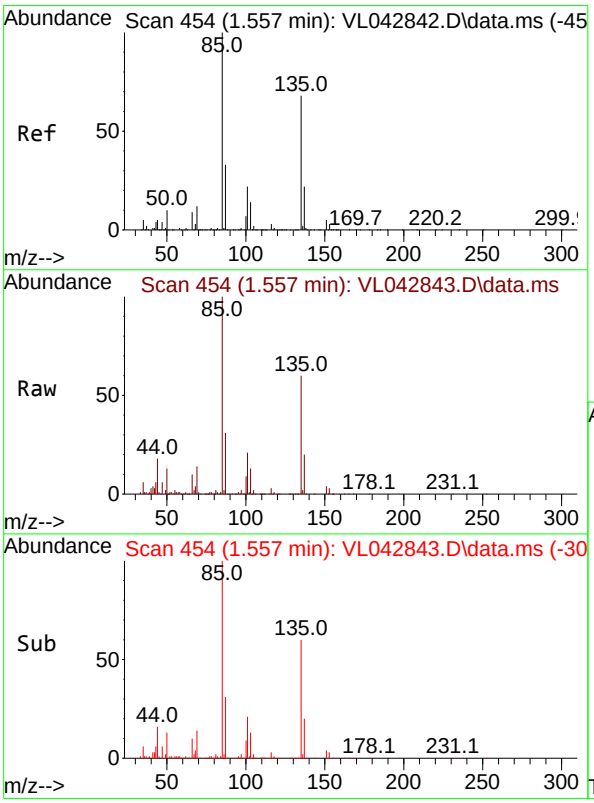
#7
Chloroethane
Concen: 1.925 ppbv
RT: 1.706 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 64 Resp: 5717

Ion	Ratio	Lower	Upper
64	100		
66	32.3	28.6	42.8

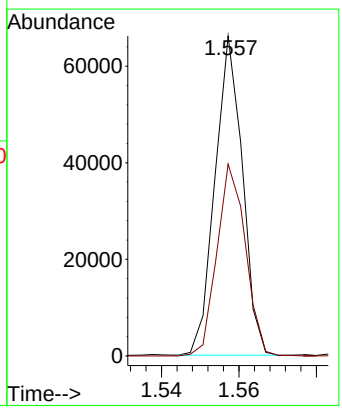


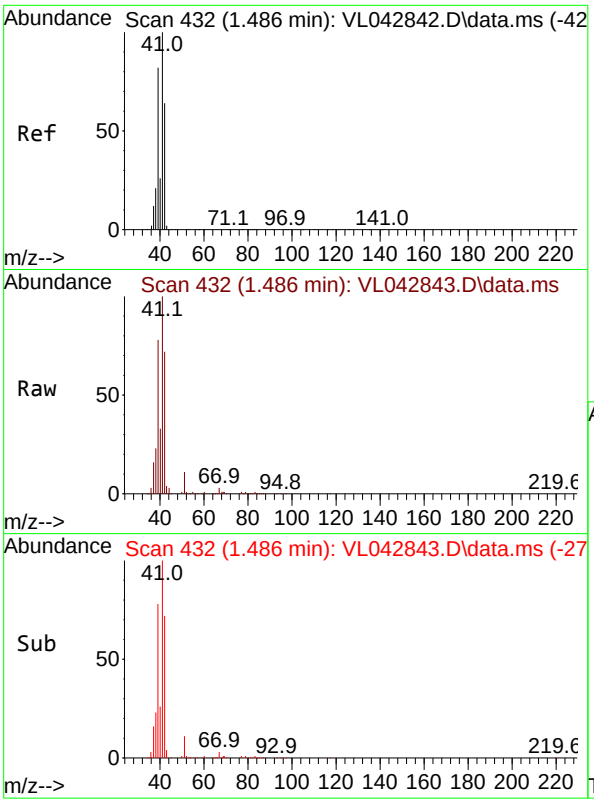


#8
Dichlorotetrafluoroethane
Concen: 2.075 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 85 Resp: 32496

Ion	Ratio	Lower	Upper
85	100		
135	62.7	51.2	76.8



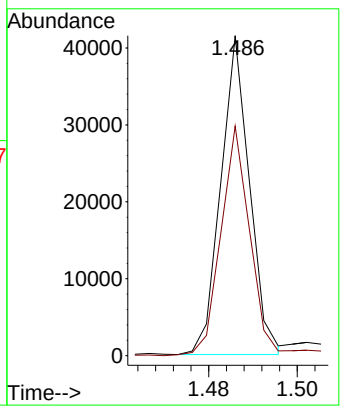


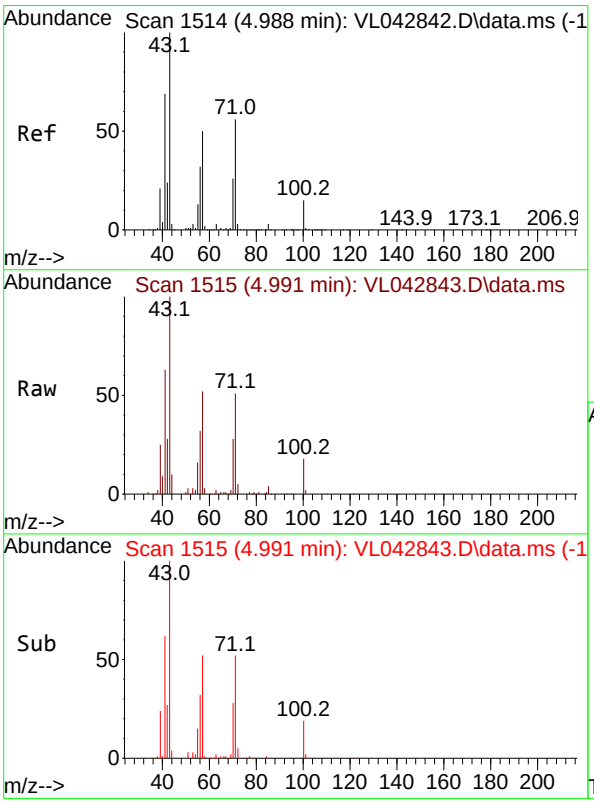
#9
Propene
Concen: 2.045 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 41 Resp: 18678

Ion	Ratio	Lower	Upper
41	100		
42	74.8	53.0	79.4

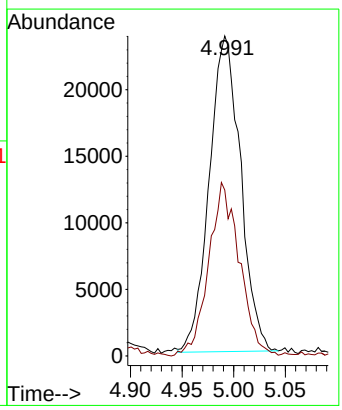


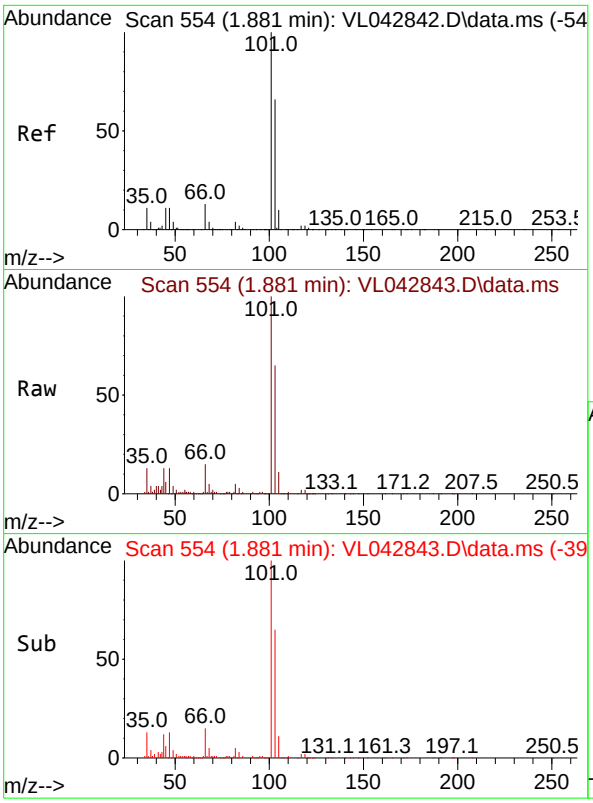


#10
Heptane
Concen: 2.050 ppbv
RT: 4.991 min Scan# 1515
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 43 Resp: 50062

Ion	Ratio	Lower	Upper
43	100		
57	54.1	41.4	62.0



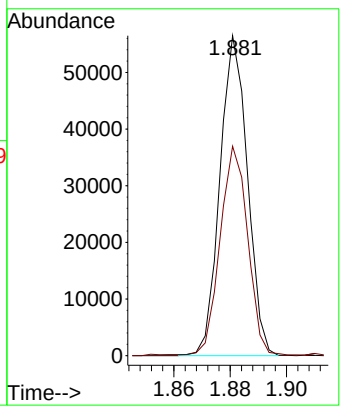


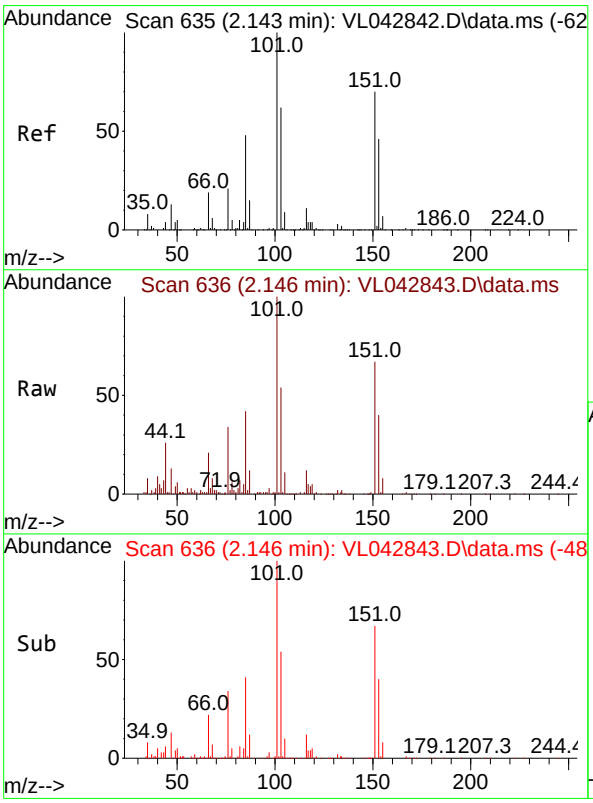
#11
Trichlorofluoromethane
Concen: 2.029 ppbv
RT: 1.881 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:101 Resp: 38308

Ion	Ratio	Lower	Upper
101	100		
103	65.1	52.5	78.7

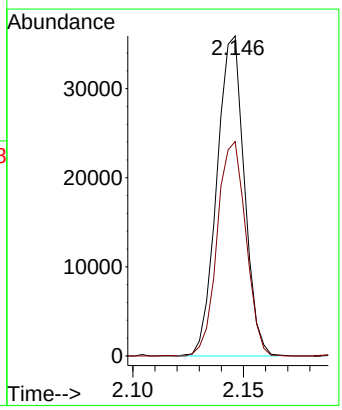


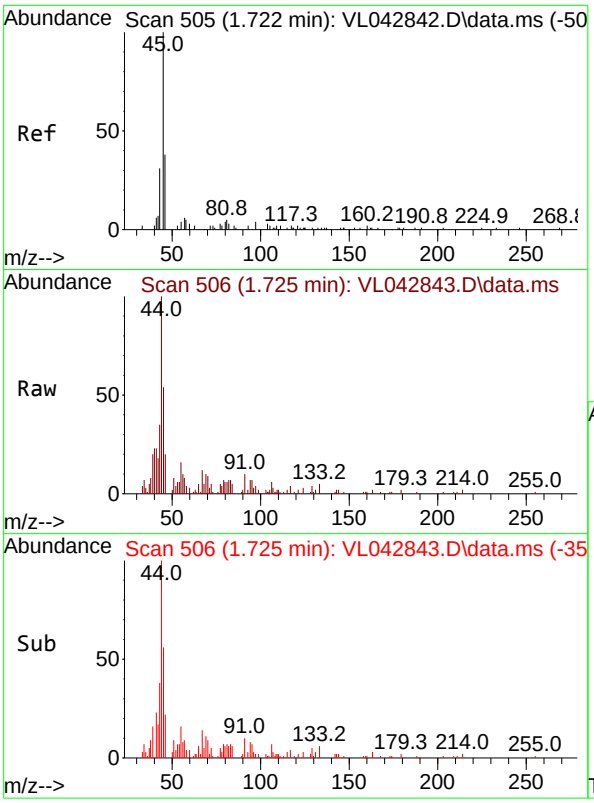


#12
1,1,2-Trichlorotrifluoroethane
Concen: 2.064 ppbv
RT: 2.146 min Scan# 636
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion:101 Resp: 31052

Ion	Ratio	Lower	Upper
101	100		
151	69.7	56.4	84.6



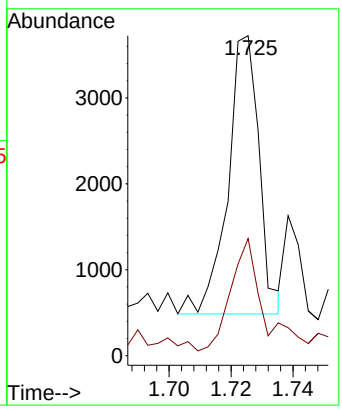


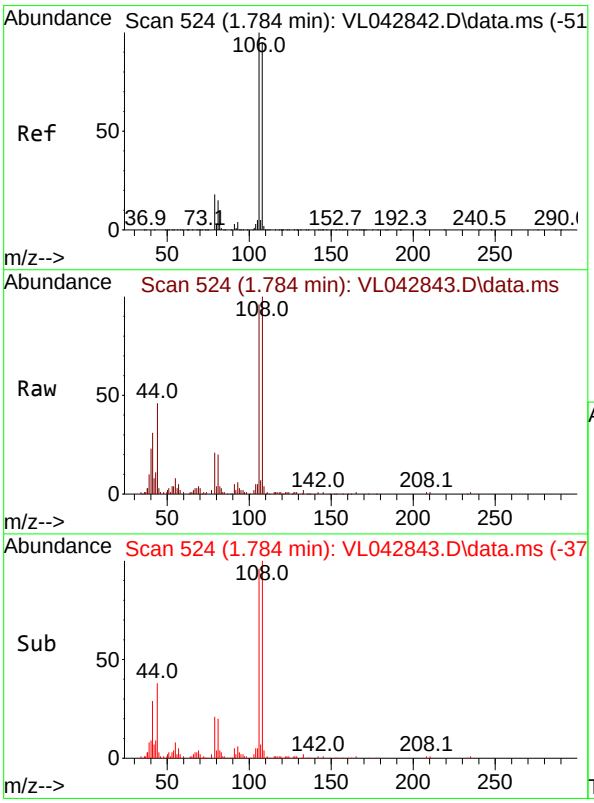
#13
Ethanol
Concen: 2.516 ppbv
RT: 1.725 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 45 Resp: 2277

Ion	Ratio	Lower	Upper
45	100		
46	48.3	17.5	69.9

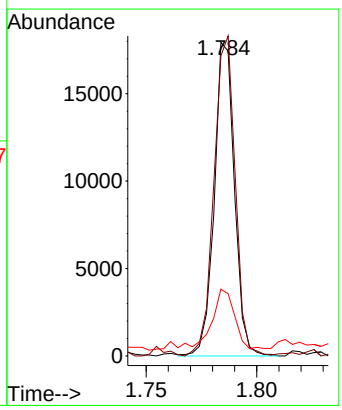


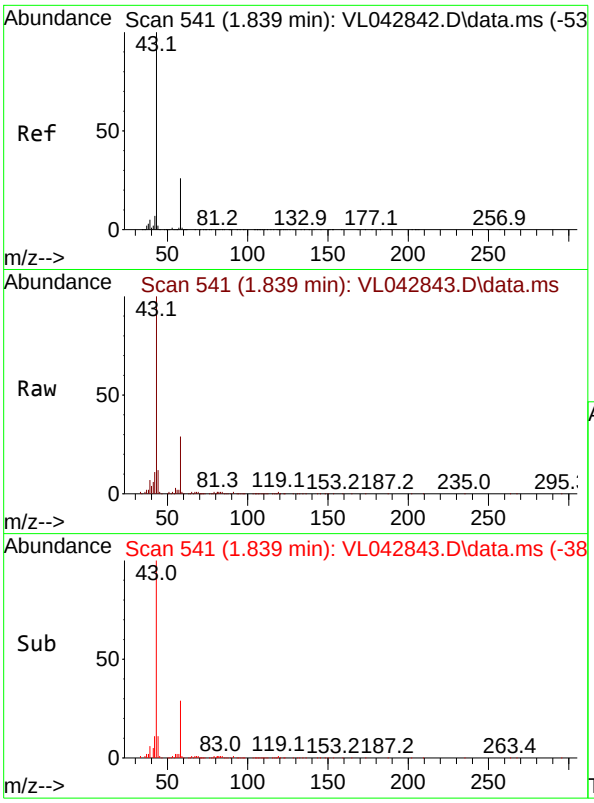


#14
Bromoethene
Concen: 2.089 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

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



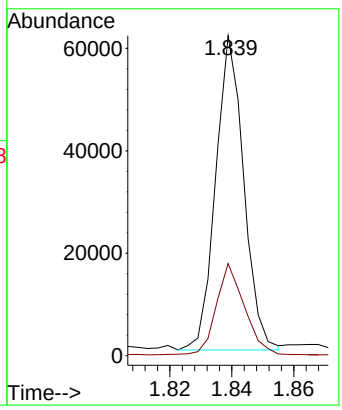


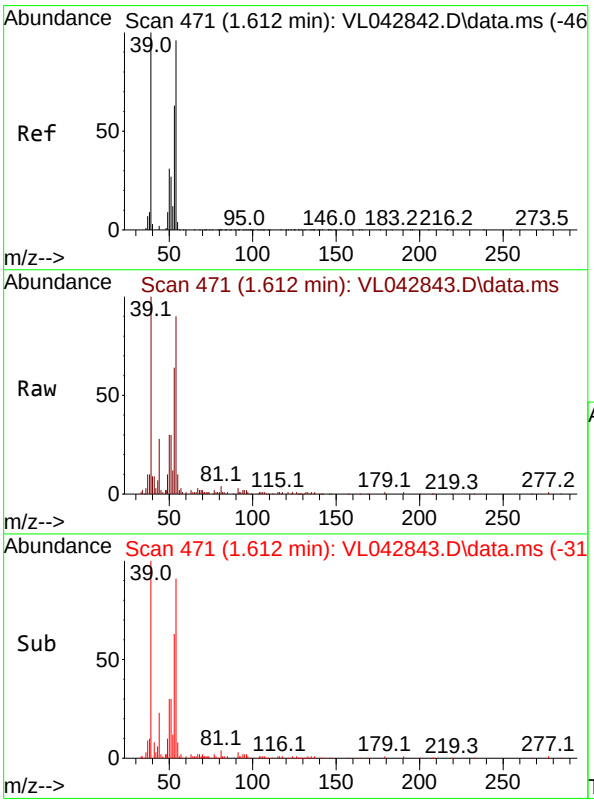
#15
Acetone
Concen: 2.231 ppbv
RT: 1.839 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 43 Resp: 38531

Ion	Ratio	Lower	Upper
43	100		
58	30.3	22.4	33.6

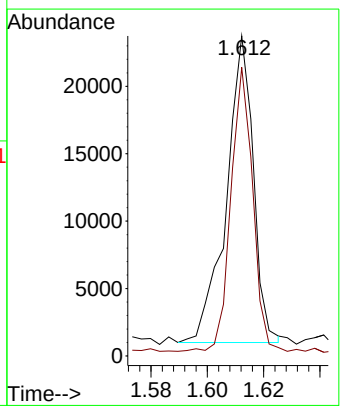


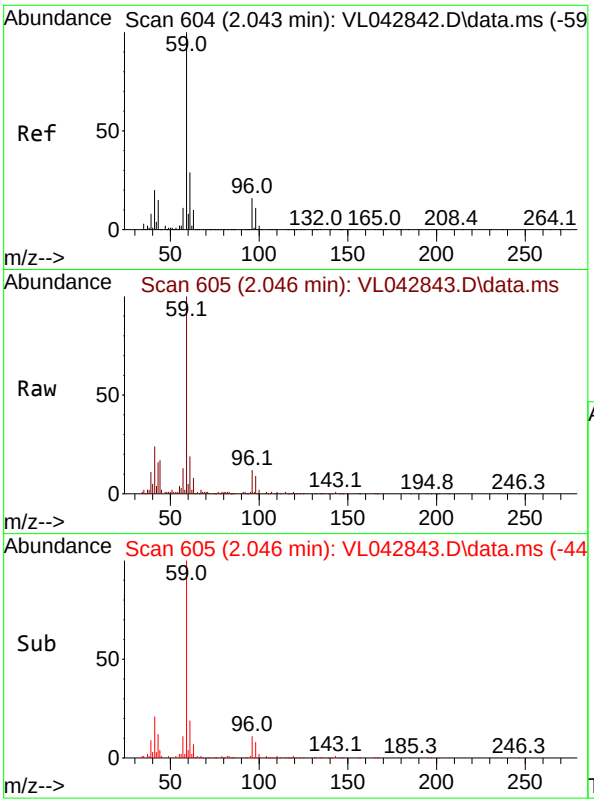


#16
1,3-Butadiene
Concen: 1.932 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 39 Resp: 15122

Ion	Ratio	Lower	Upper
39	100		
54	80.8	63.6	95.4



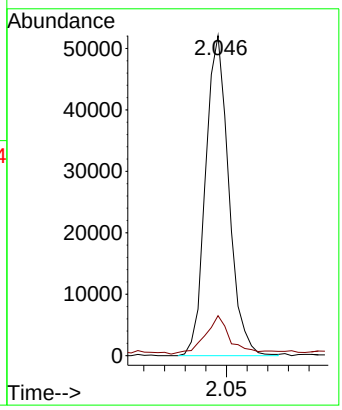


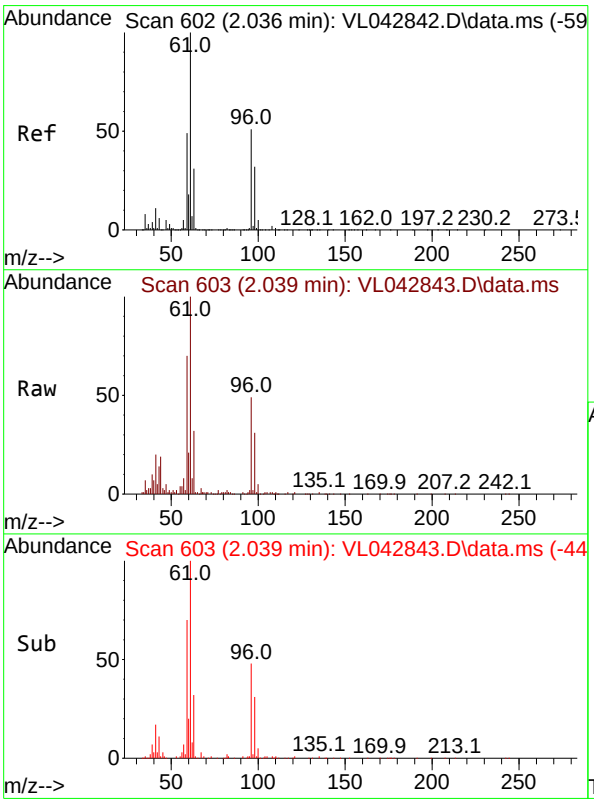
#17
tert-Butyl alcohol
Concen: 1.985 ppbv
RT: 2.046 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 59 Resp: 40652

Ion	Ratio	Lower	Upper
59	100		
57	12.4	9.0	13.4

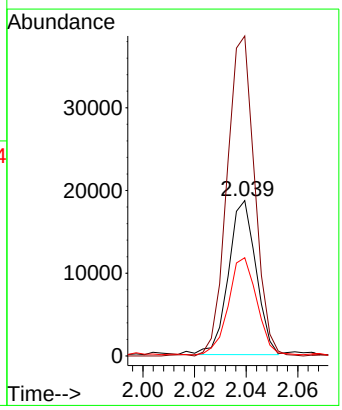


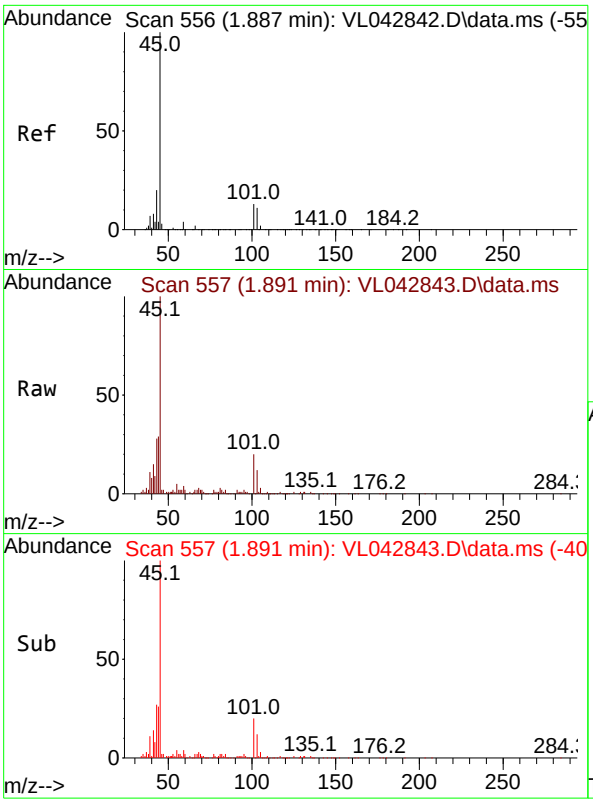


#18
1,1-Dichloroethene
Concen: 2.099 ppbv
RT: 2.039 min Scan# 603
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

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



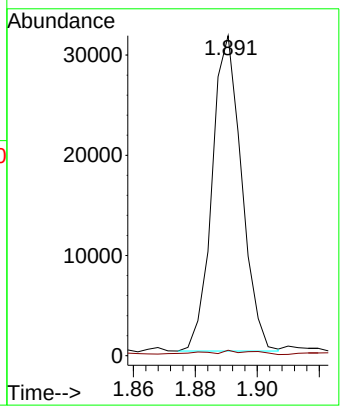


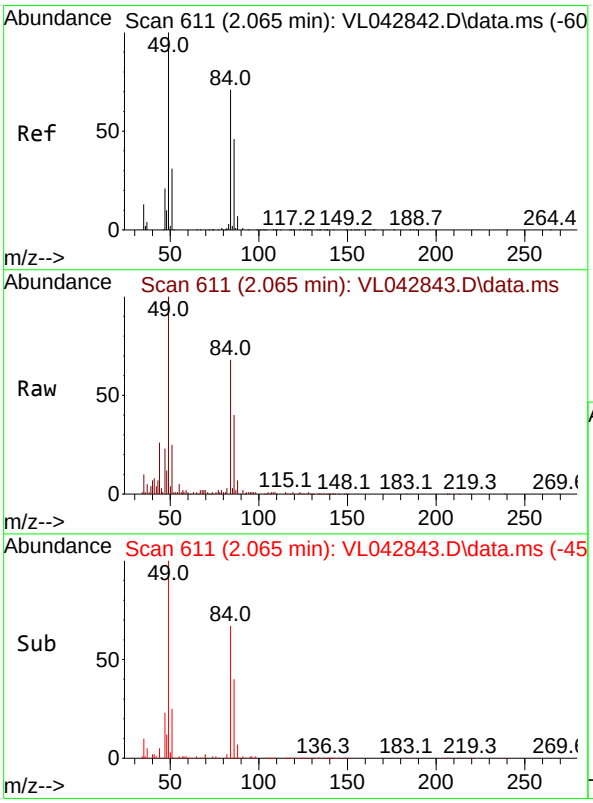
#19
Isopropyl Alcohol
Concen: 2.023 ppbv
RT: 1.891 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 45 Resp: 20866

Ion	Ratio	Lower	Upper
45	100		
58	3.1	32.7	49.1#

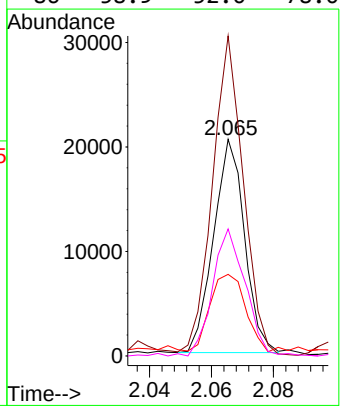


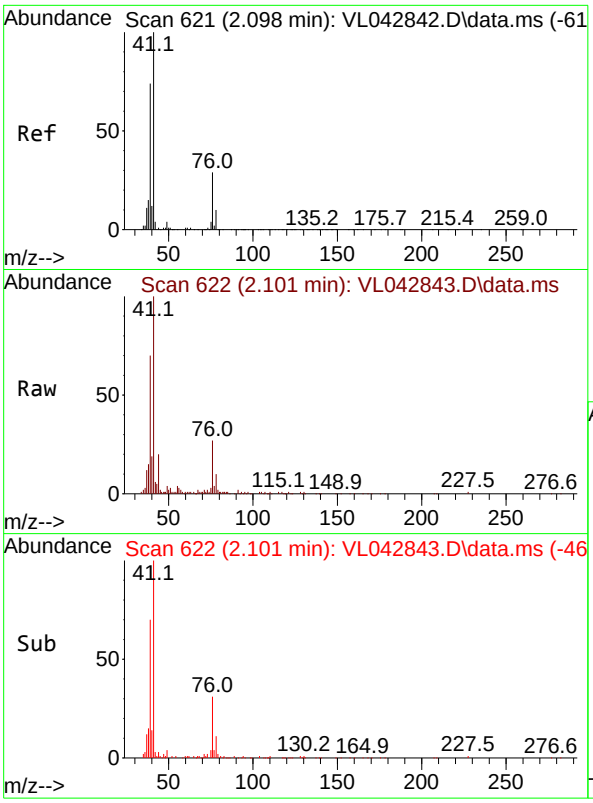


#20
Methylene Chloride
Concen: 1.963 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

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



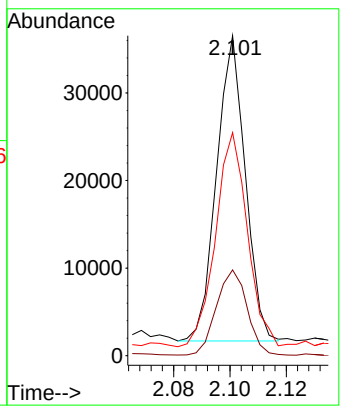


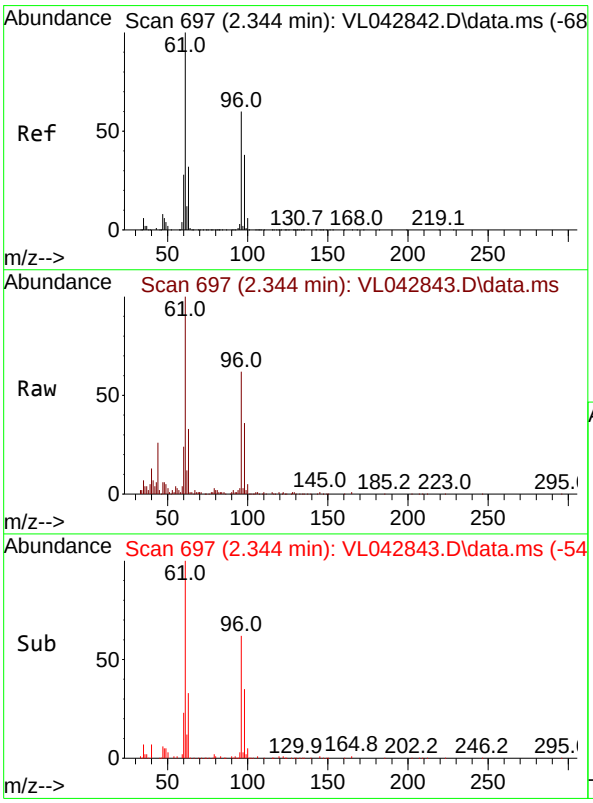
#21
Allyl Chloride
Concen: 2.021 ppbv
RT: 2.101 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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

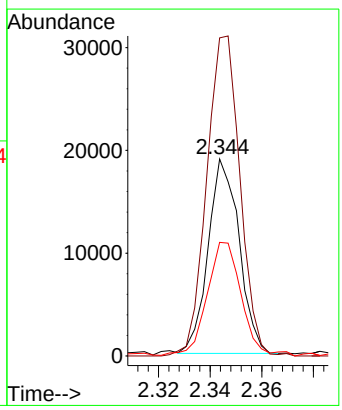


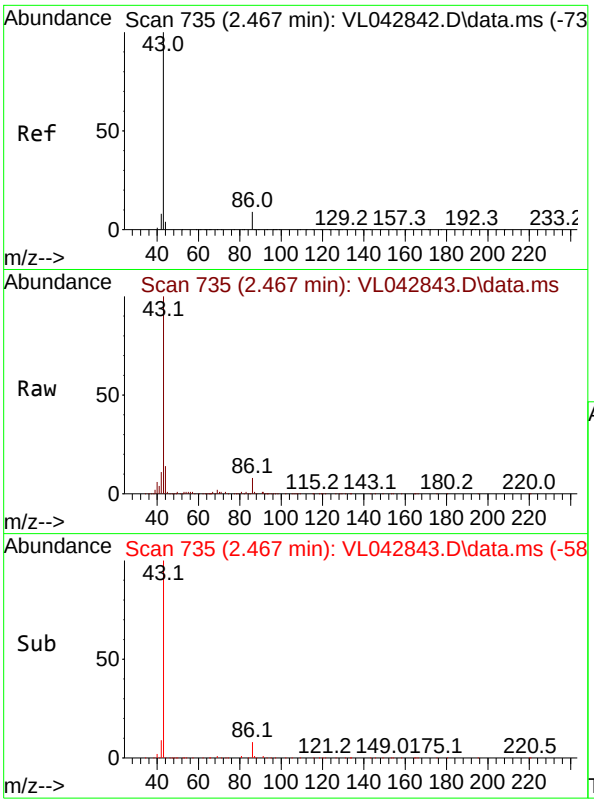


#22
trans-1,2-Dichloroethene
Concen: 2.132 ppbv
RT: 2.344 min Scan# 697
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

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



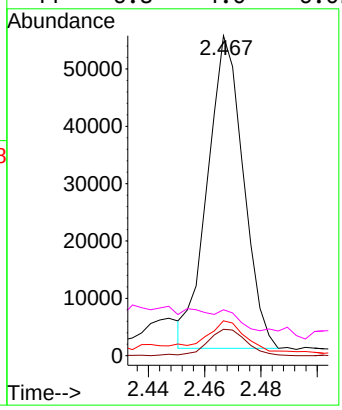


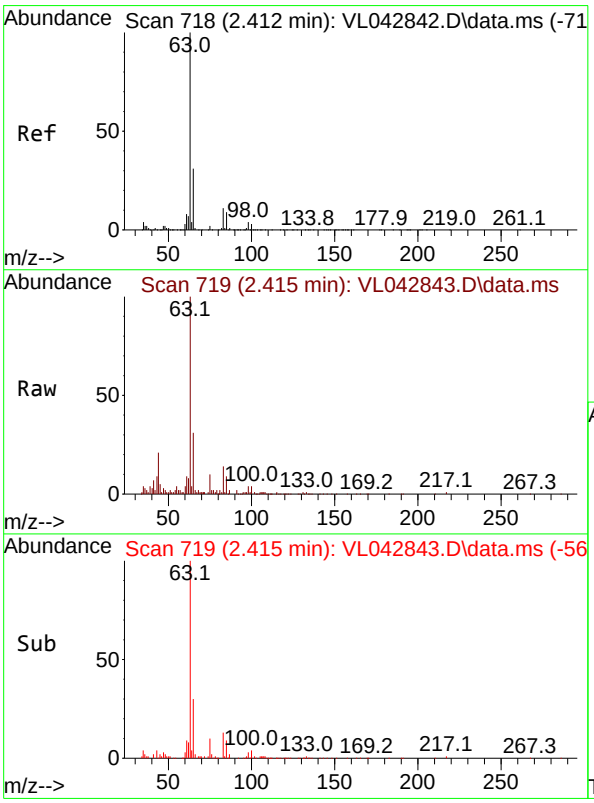
#23
Vinyl Acetate
Concen: 2.125 ppbv
RT: 2.467 min Scan# 7
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 43 Resp: 48269

Ion	Ratio	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#

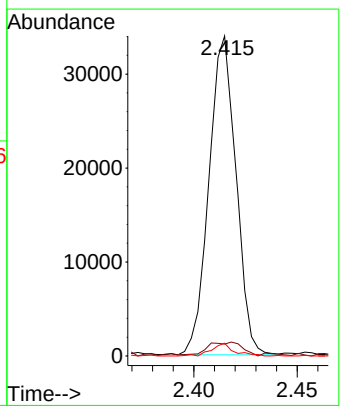


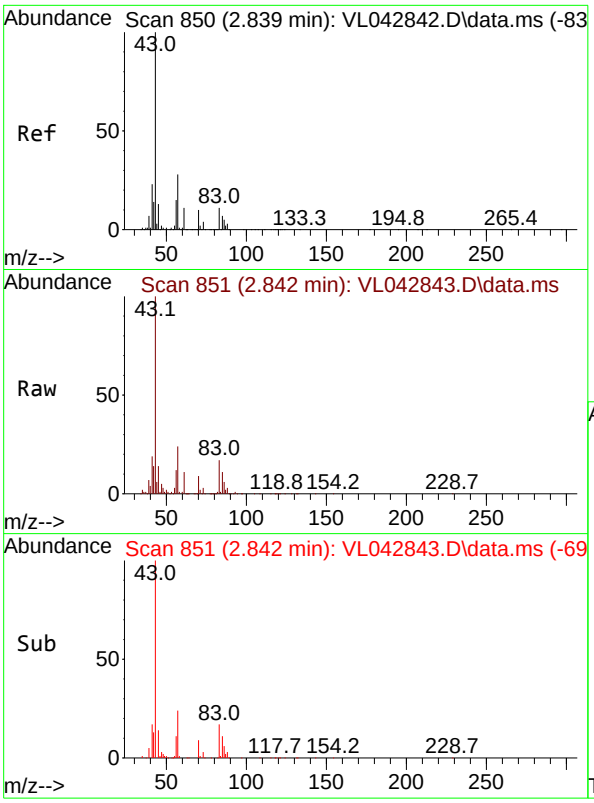


#24
1,1-Dichloroethane
Concen: 2.024 ppbv
RT: 2.415 min Scan# 719
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

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



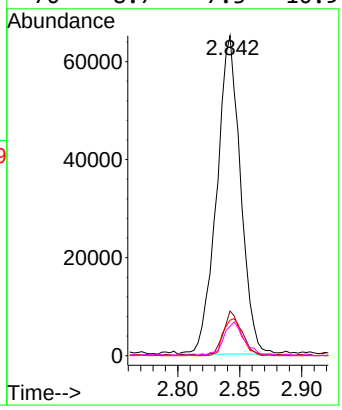


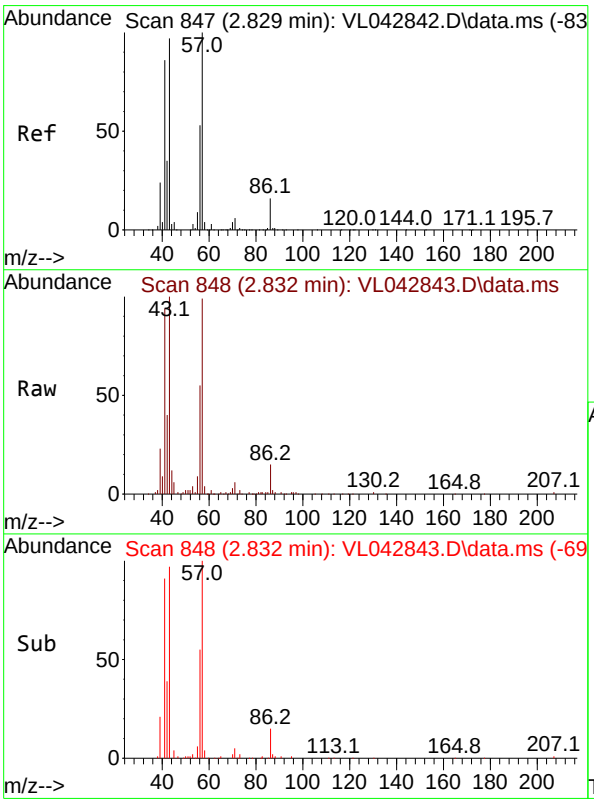
#25
Ethyl Acetate
Concen: 2.077 ppbv
RT: 2.842 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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

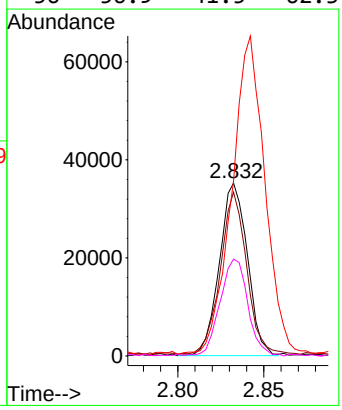


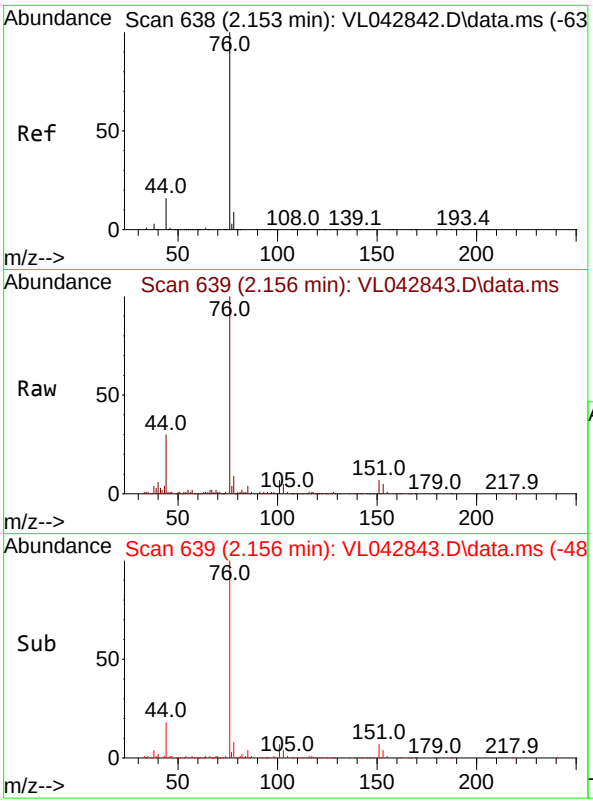


#26
Hexane
Concen: 2.060 ppbv
RT: 2.832 min Scan# 848
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 57 Resp: 39735

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



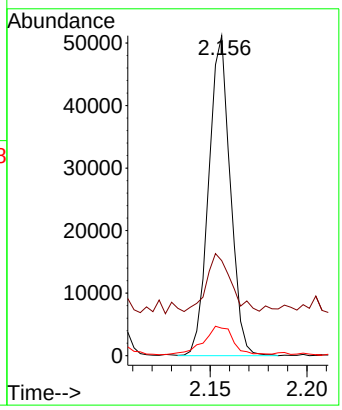


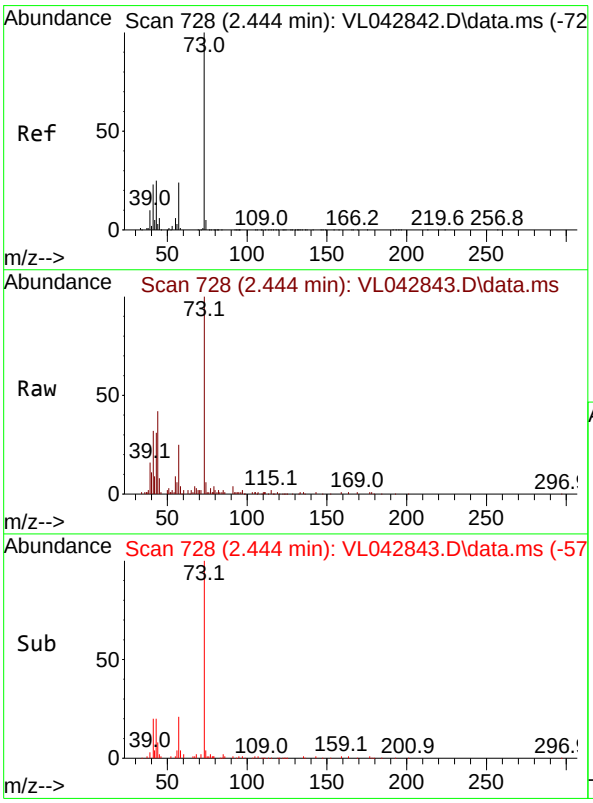
#27
Carbon Disulfide
Concen: 2.102 ppbv
RT: 2.156 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 76 Resp: 39466

Ion	Ratio	Lower	Upper
76	100		
44	81.0	15.9	23.9#
78	13.8	9.5	14.3

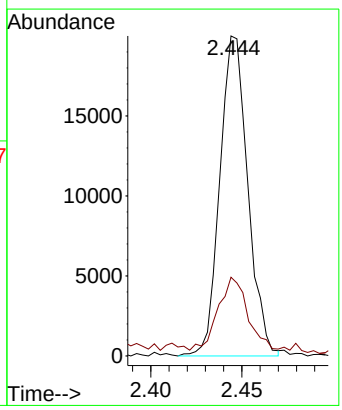


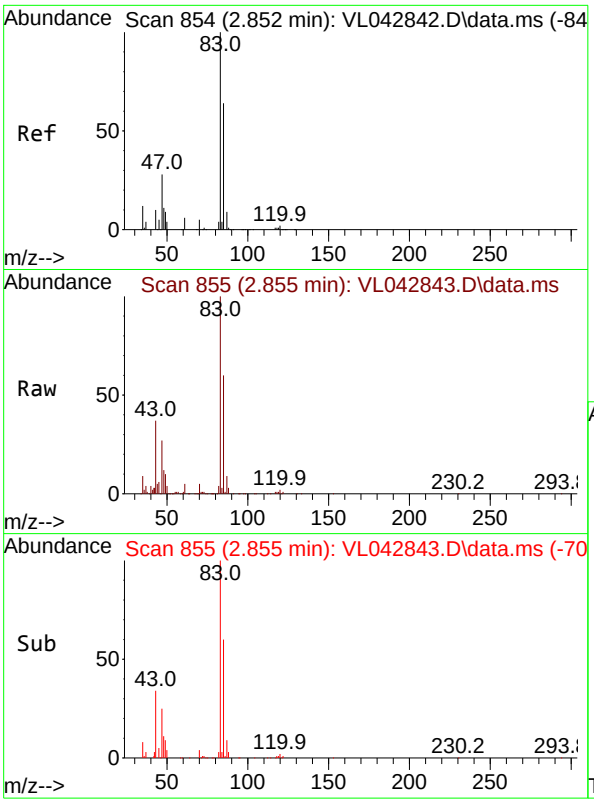


#28
Methyl tert-Butyl Ether
Concen: 2.169 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 73 Resp: 21341

Ion	Ratio	Lower	Upper
73	100		
57	24.8	21.6	32.4



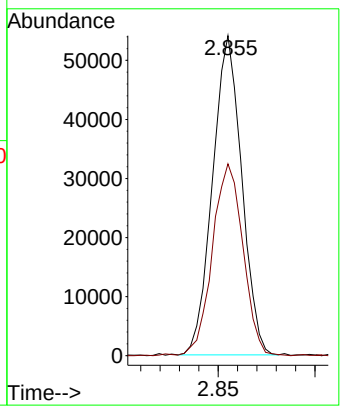


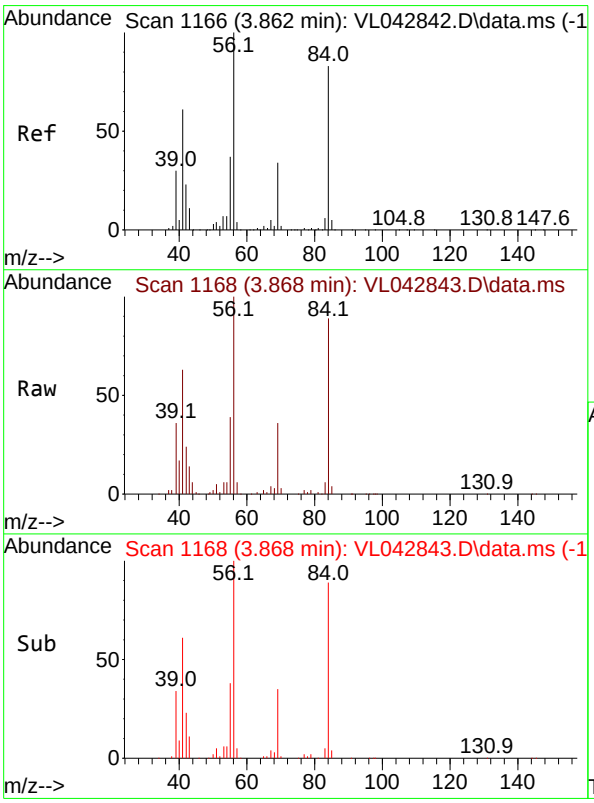
#29
Chloroform
Concen: 2.053 ppbv
RT: 2.855 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 83 Resp: 56553

Ion	Ratio	Lower	Upper
83	100		
85	59.9	51.1	76.7

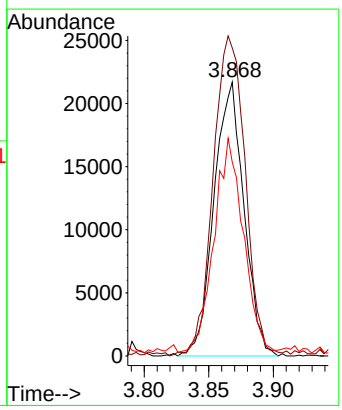


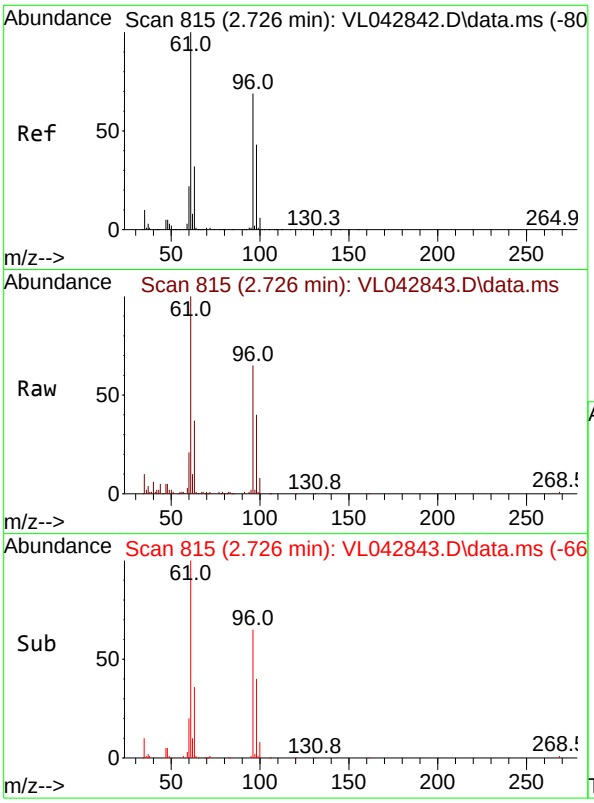


#30
Cyclohexane
Concen: 2.069 ppbv
RT: 3.868 min Scan# 1168
Delta R.T. 0.007 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

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



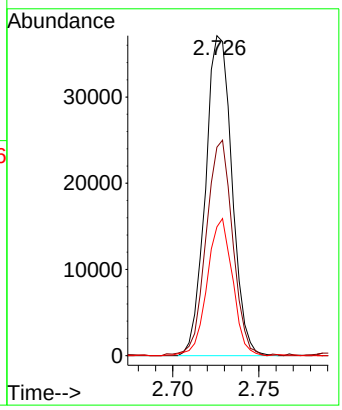


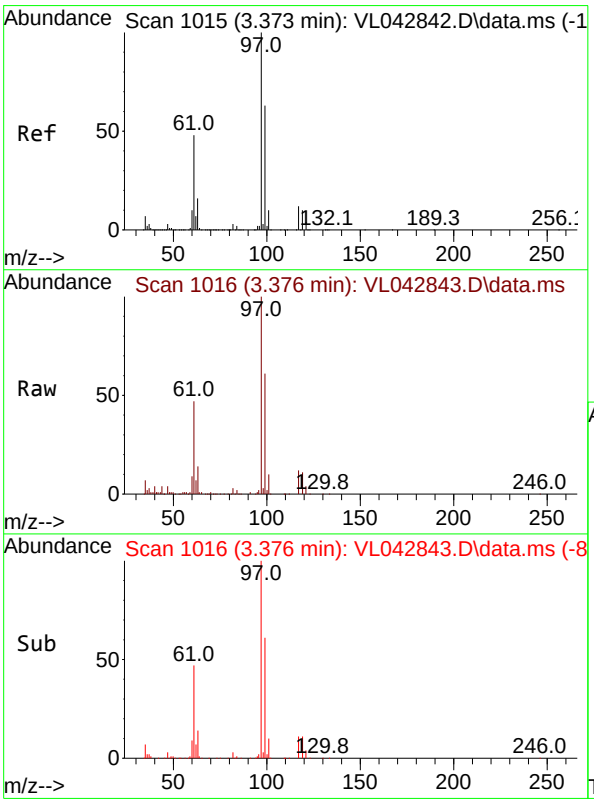
#31
cis-1,2-Dichloroethene
Concen: 2.062 ppbv
RT: 2.726 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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

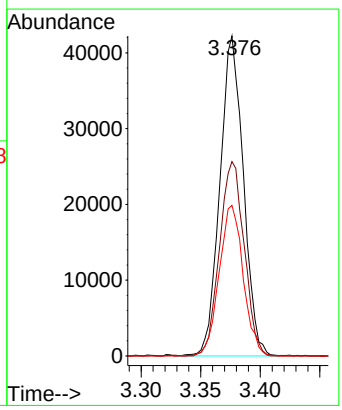


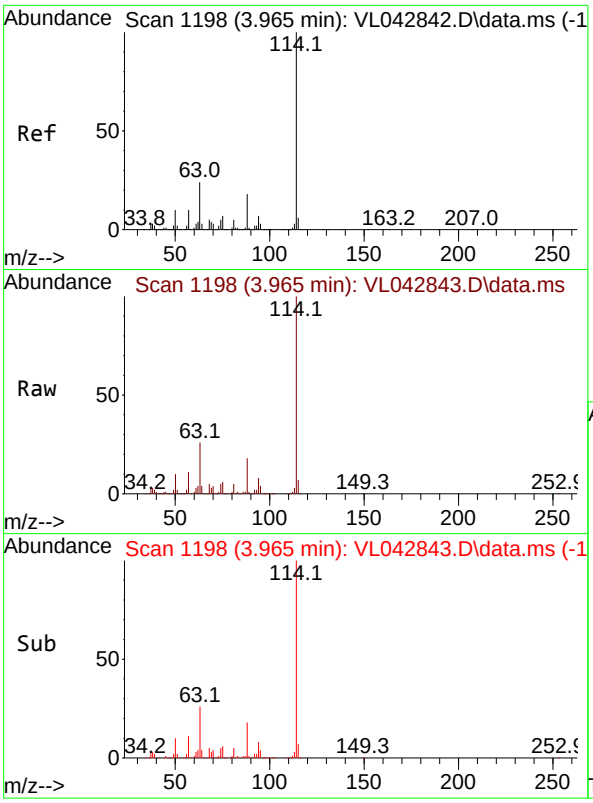


#32
1,1,1-Trichloroethane
Concen: 1.983 ppbv
RT: 3.376 min Scan# 1016
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

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



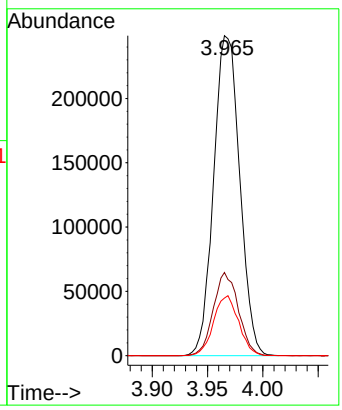


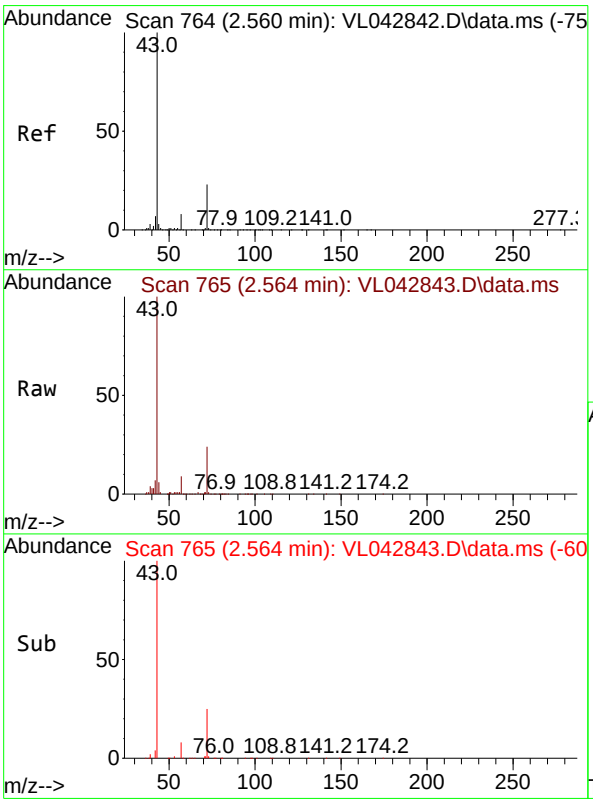
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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

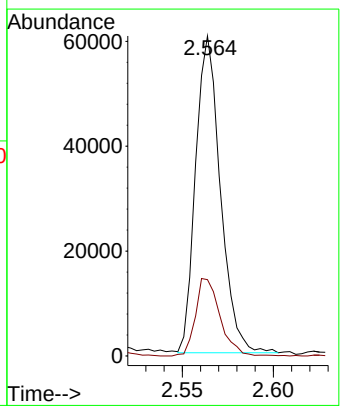


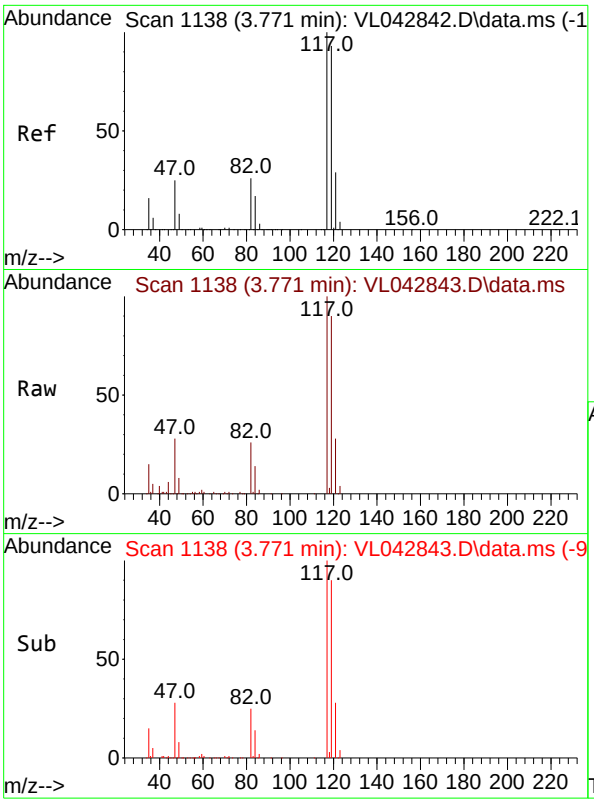


#34
2-Butanone
Concen: 2.075 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 43 Resp: 57172

Ion	Ratio	Lower	Upper
43	100		
72	24.3	18.6	28.0



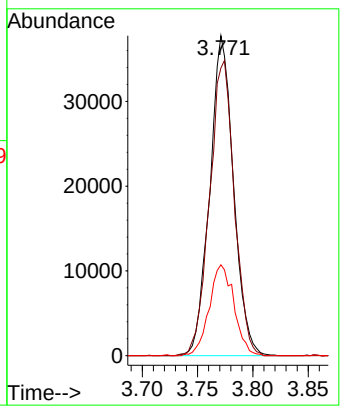


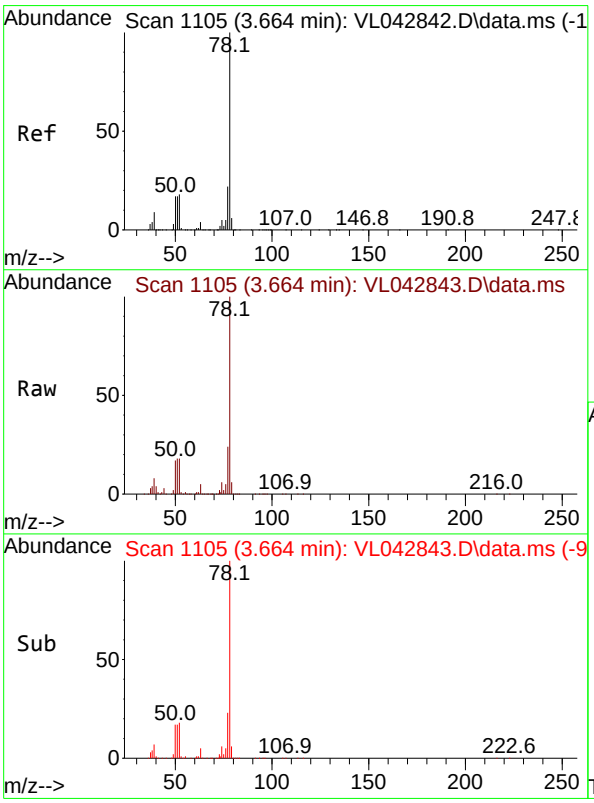
#35
Carbon Tetrachloride
Concen: 2.007 ppbv
RT: 3.771 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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

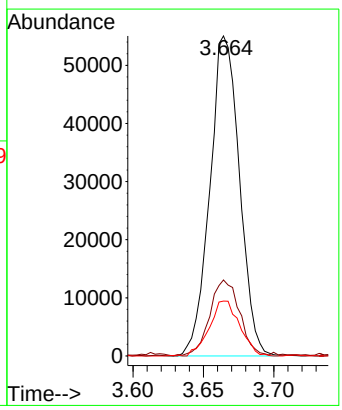


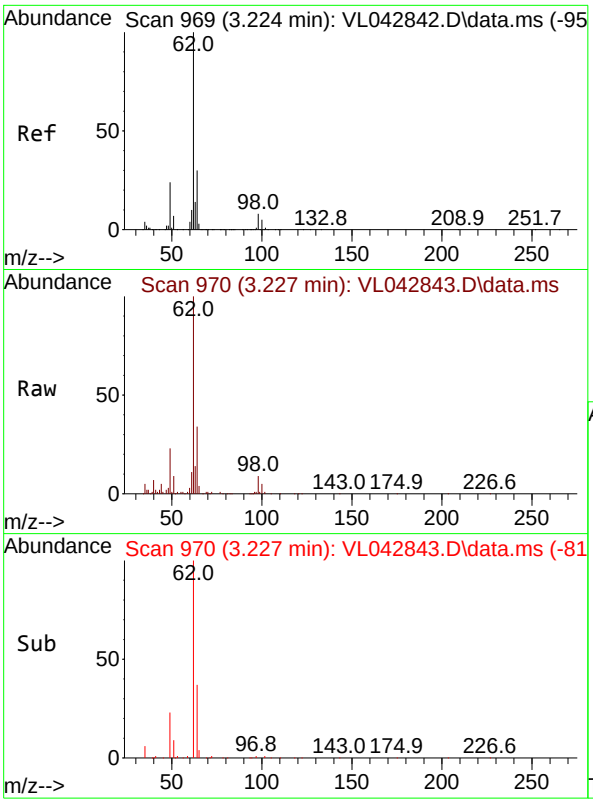


#36
Benzene
Concen: 2.067 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

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



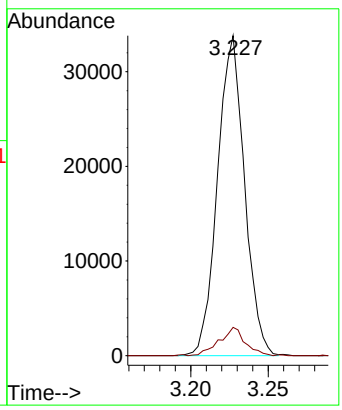


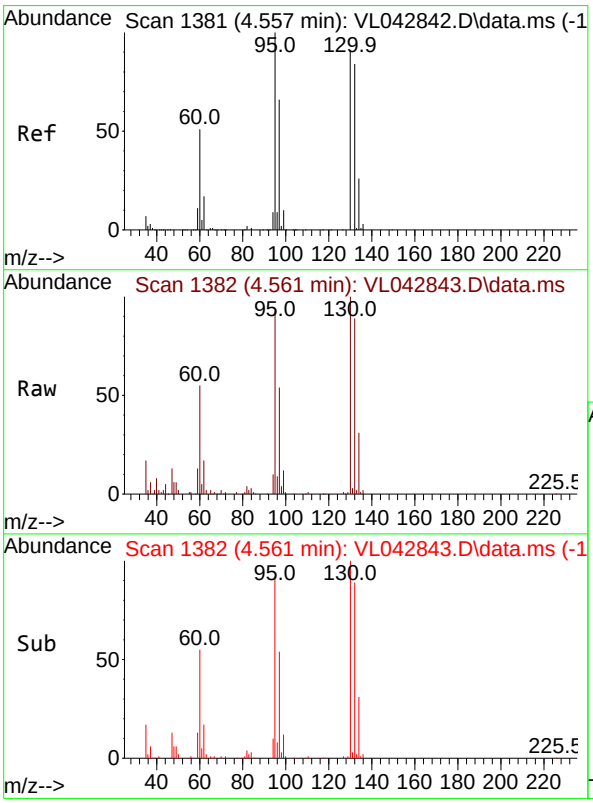
#37
1,2-Dichloroethane
Concen: 2.010 ppbv
RT: 3.227 min Scan# 9
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 62 Resp: 41034

Ion	Ratio	Lower	Upper
62	100		
98	8.6	5.9	8.9

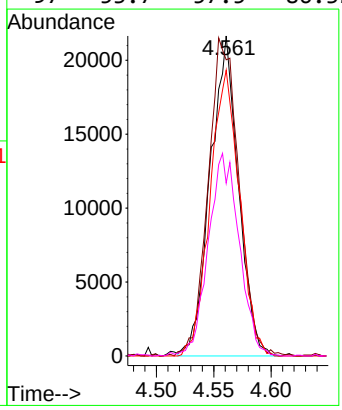


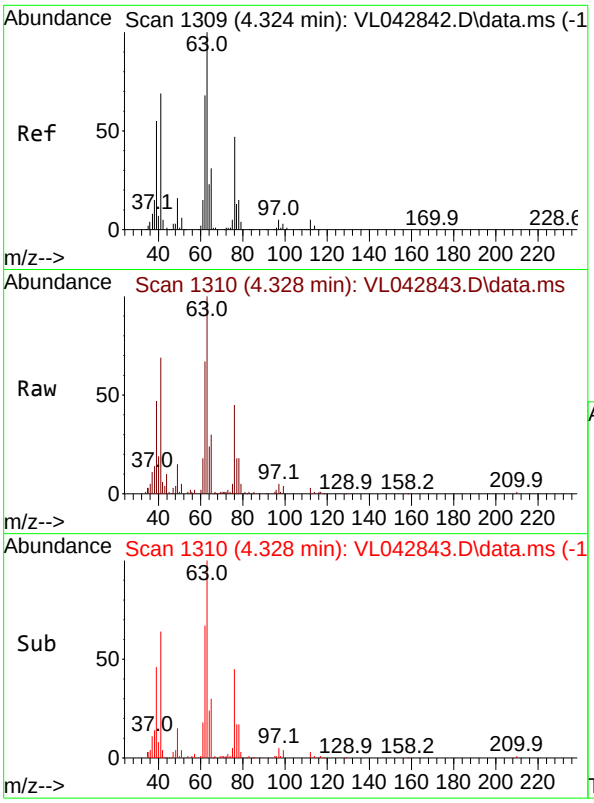


#38
Trichloroethene
Concen: 2.072 ppbv
RT: 4.561 min Scan# 1382
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

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#



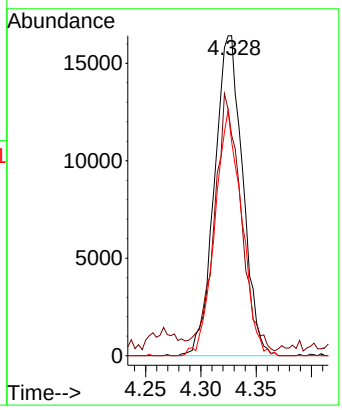


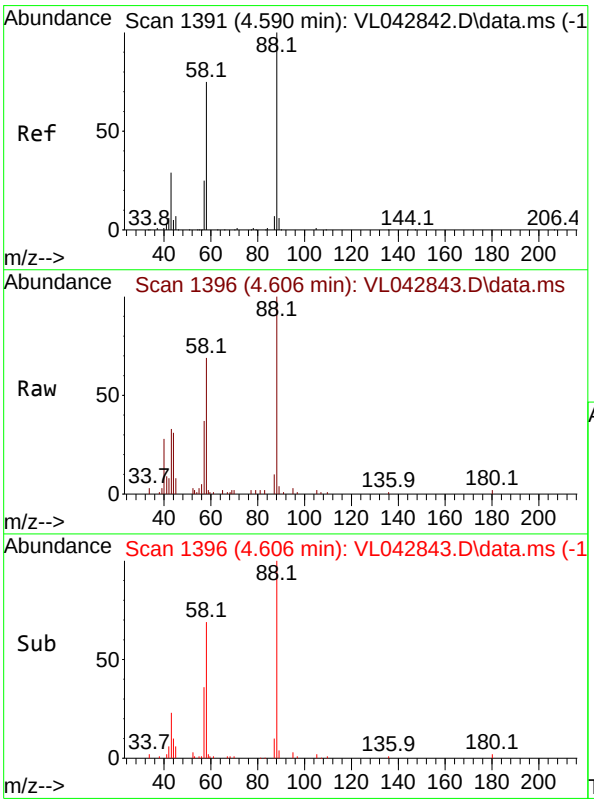
#39
1,2-Dichloropropane
Concen: 2.036 ppbv
RT: 4.328 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 63 Resp: 29059

Ion	Ratio	Lower	Upper
63	100		
41	66.8	55.0	82.4
62	66.9	54.4	81.6

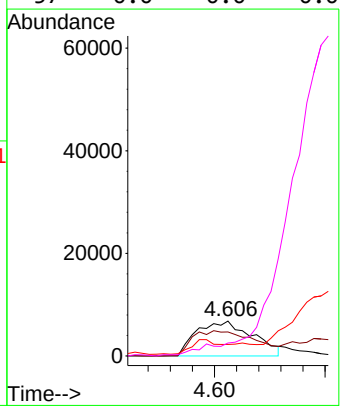


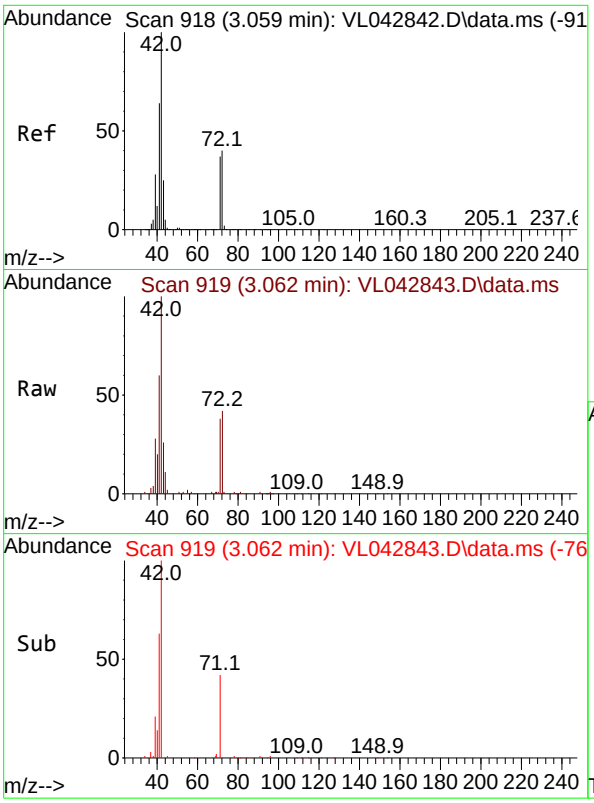


#40
1,4-Dioxane
Concen: 1.788 ppbv
RT: 4.606 min Scan# 1396
Delta R.T. 0.016 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

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



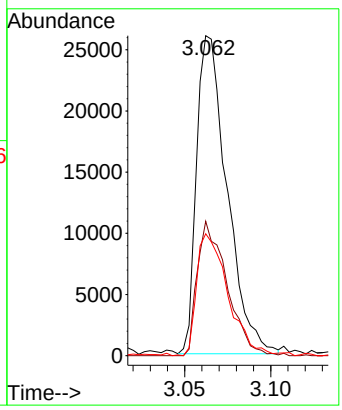


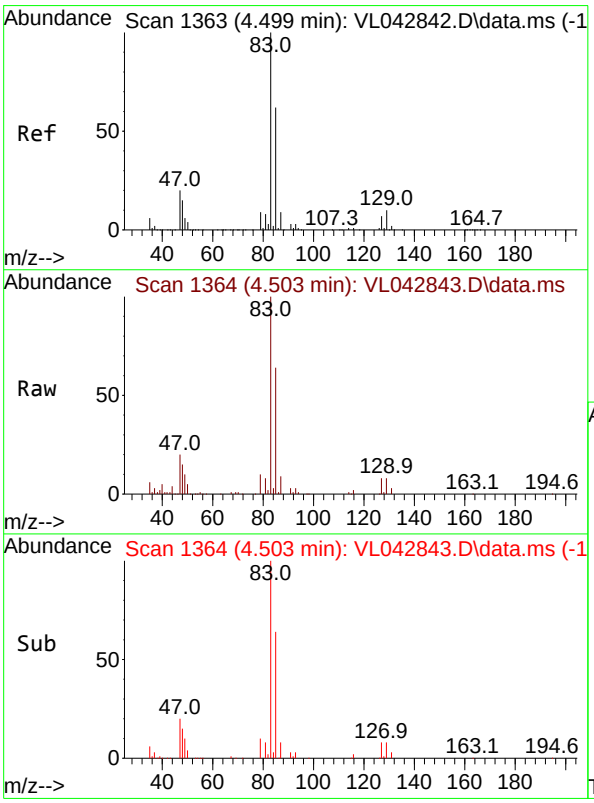
#41
Tetrahydrofuran
Concen: 2.082 ppbv
RT: 3.062 min Scan# 91
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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

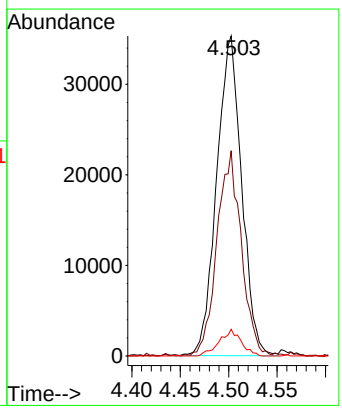


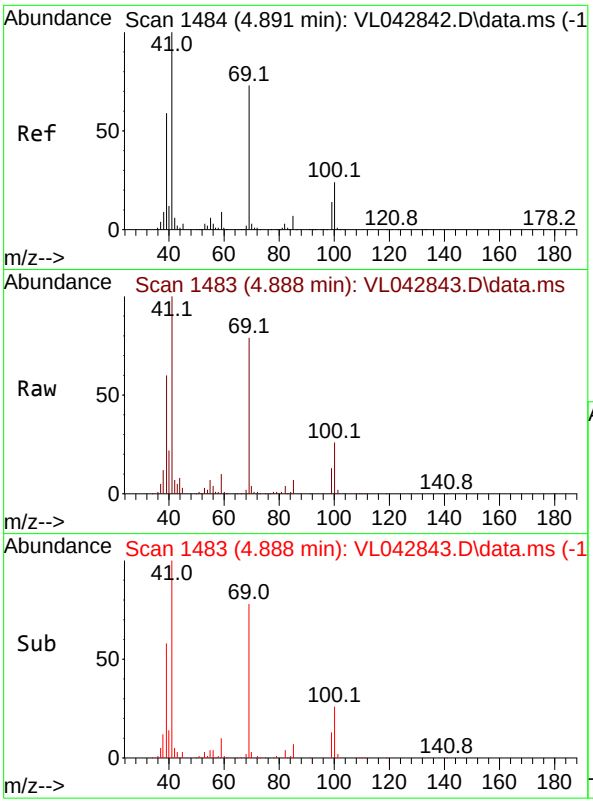


#42
Bromodichloromethane
Concen: 2.085 ppbv
RT: 4.503 min Scan# 1364
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

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



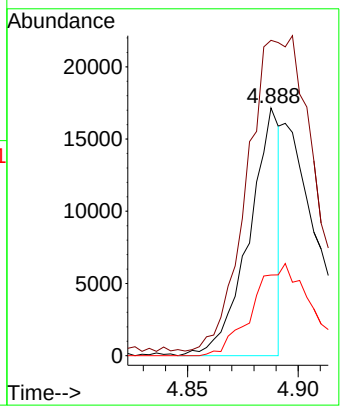


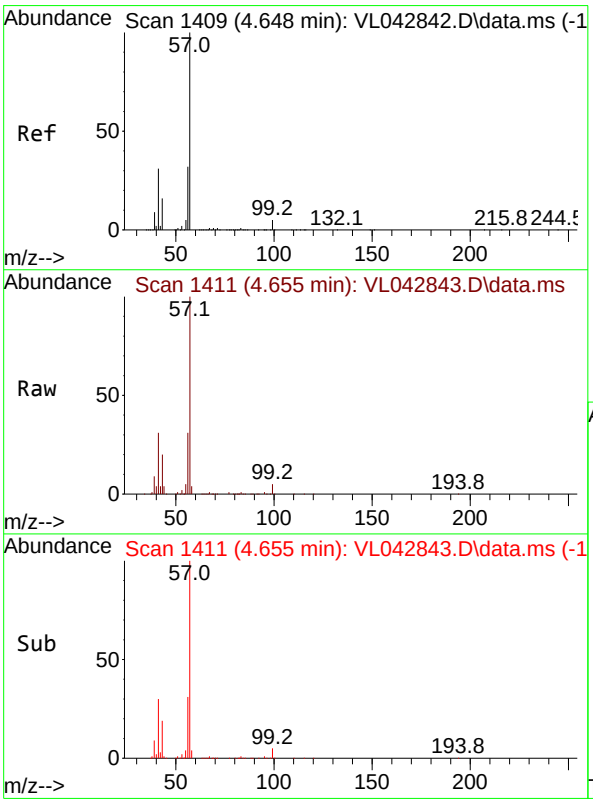
#43
Methyl Methacrylate
Concen: 1.030 ppbv
RT: 4.888 min Scan# 14
Delta R.T. -0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

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#

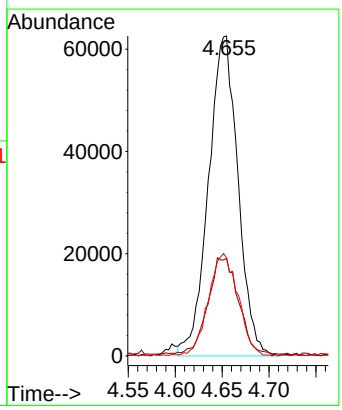


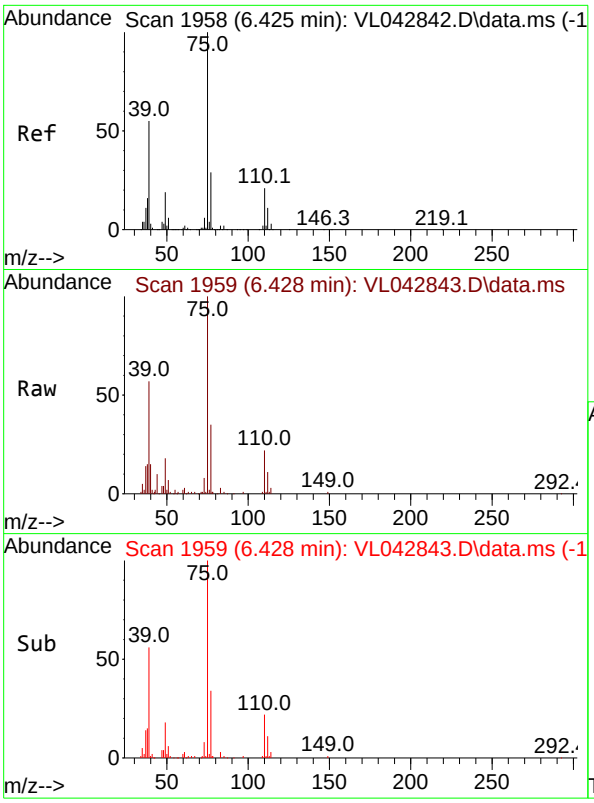


#44
2,2,4-Trimethylpentane
Concen: 2.085 ppbv
RT: 4.655 min Scan# 1411
Delta R.T. 0.007 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

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



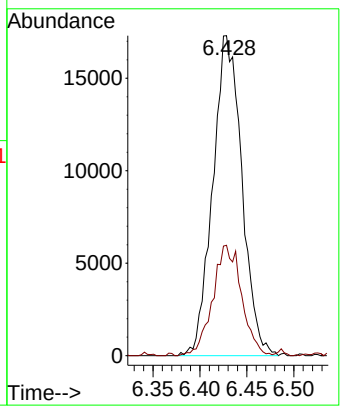


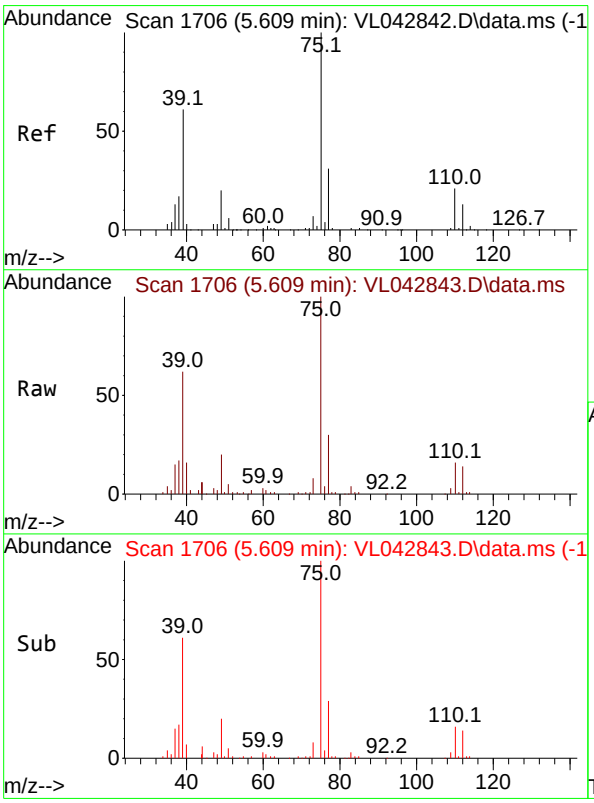
#45
t-1,3-Dichloropropene
Concen: 2.048 ppbv
RT: 6.428 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 75 Resp: 37248

Ion	Ratio	Lower	Upper
75	100		
77	35.2	23.8	35.6

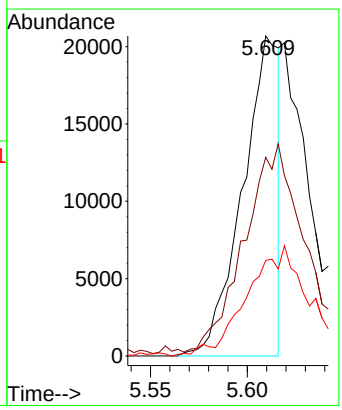


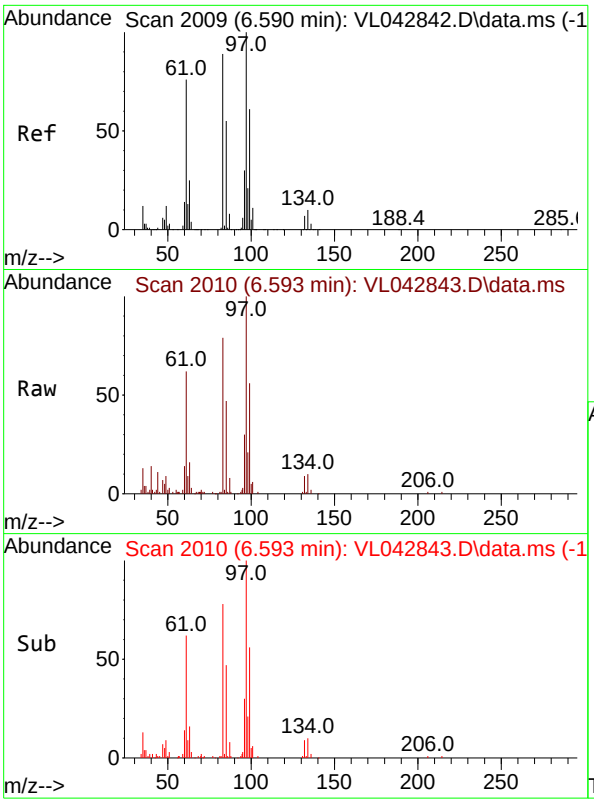


#46
cis-1,3-Dichloropropene
Concen: 1.180 ppbv
RT: 5.609 min Scan# 1706
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

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



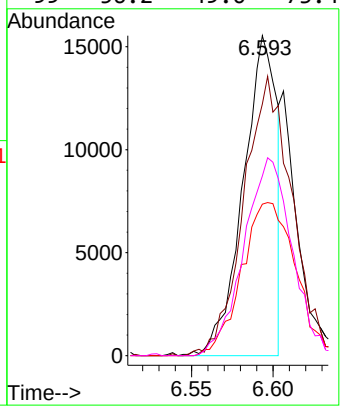


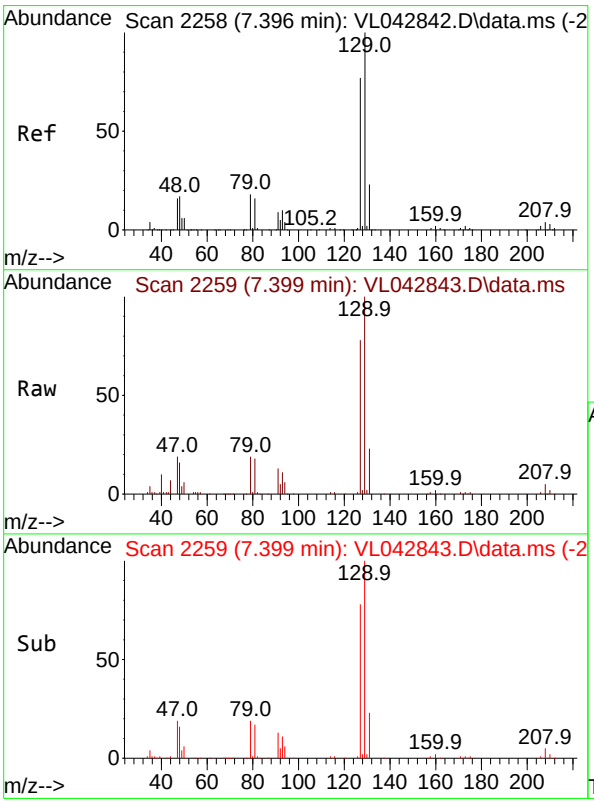
#47
1,1,2-Trichloroethane
Concen: 1.466 ppbv
RT: 6.593 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

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

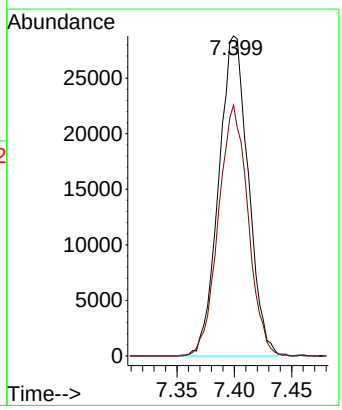


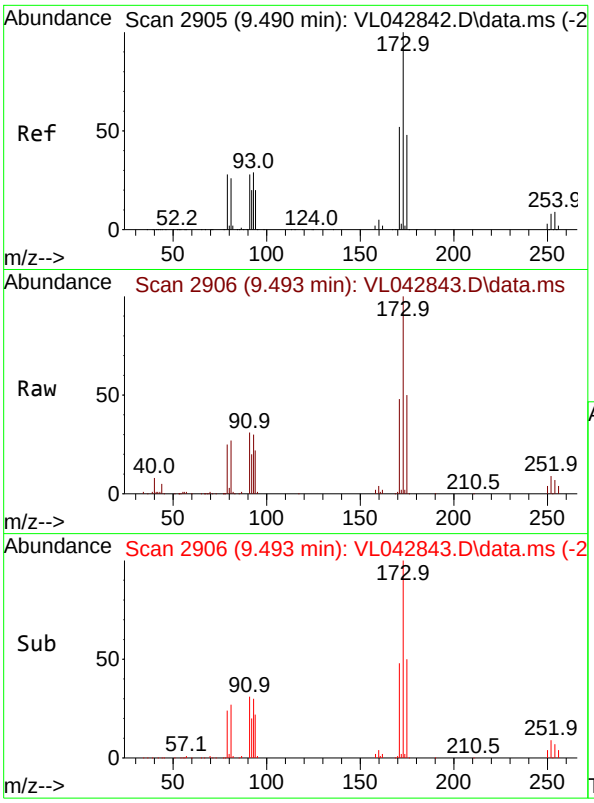


#48
Dibromochloromethane
Concen: 2.109 ppbv
RT: 7.399 min Scan# 2259
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion:129 Resp: 51620

Ion	Ratio	Lower	Upper
129	100		
127	78.4	39.4	118.2



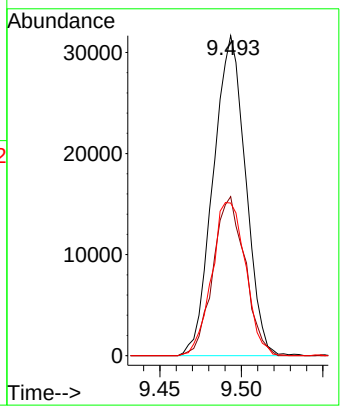


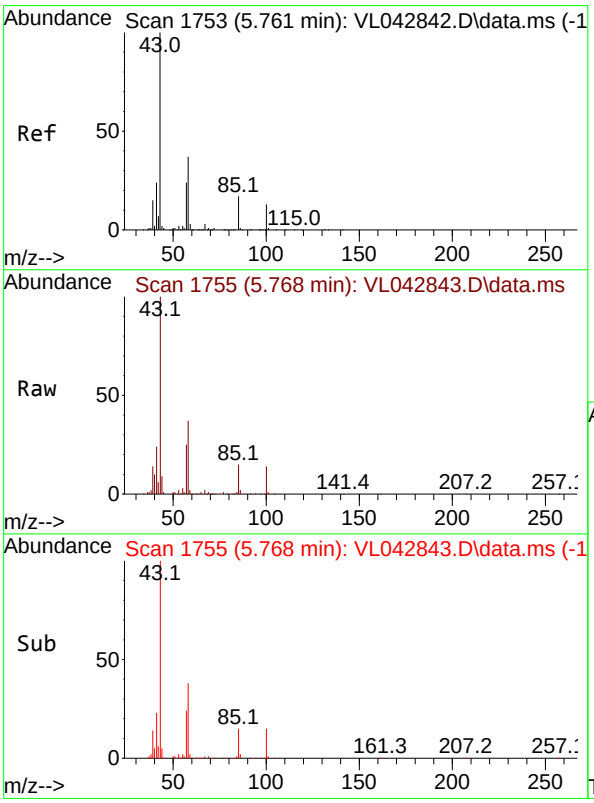
#49
Bromoform
Concen: 2.163 ppbv
RT: 9.493 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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

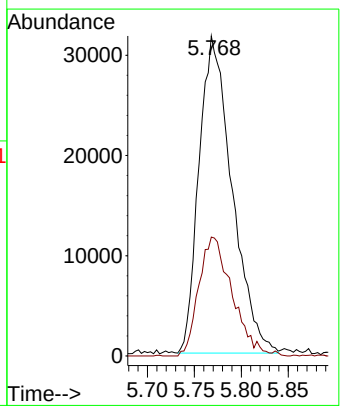


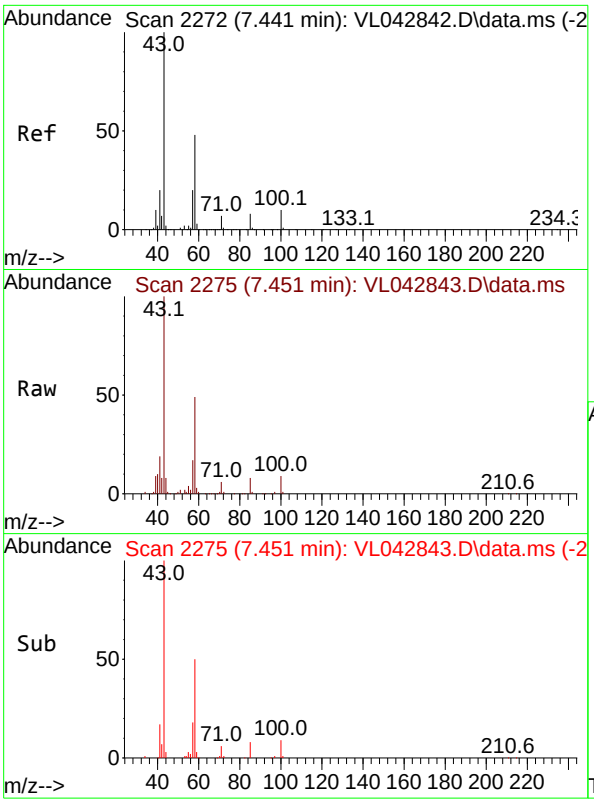


#50
4-Methyl-2-Pentanone
Concen: 2.066 ppbv
RT: 5.768 min Scan# 1755
Delta R.T. 0.007 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 43 Resp: 77225

Ion	Ratio	Lower	Upper
43	100		
58	38.1	29.8	44.8



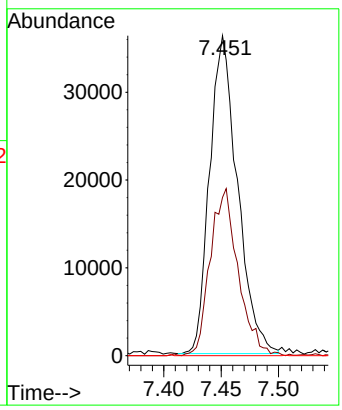


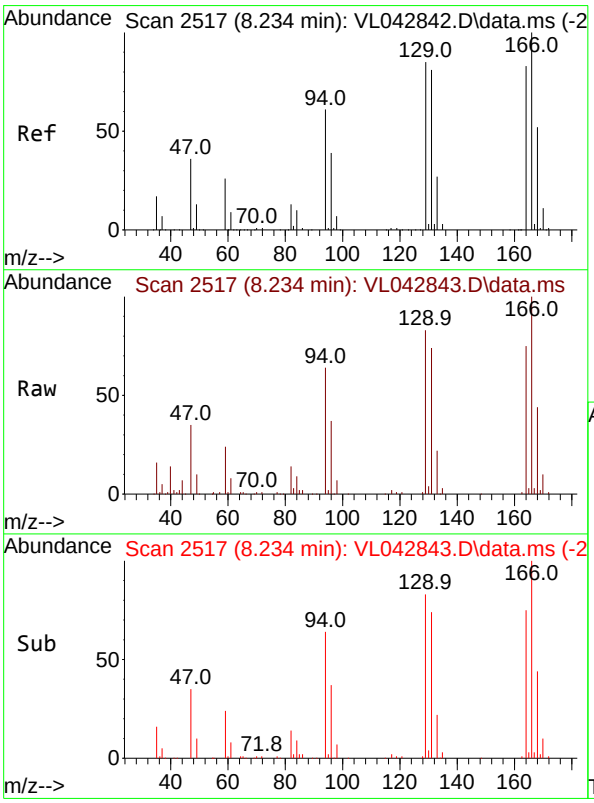
#51
2-Hexanone
Concen: 2.088 ppbv
RT: 7.451 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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#

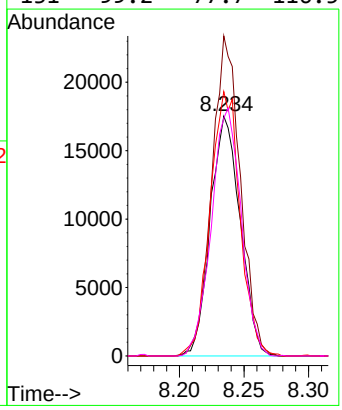


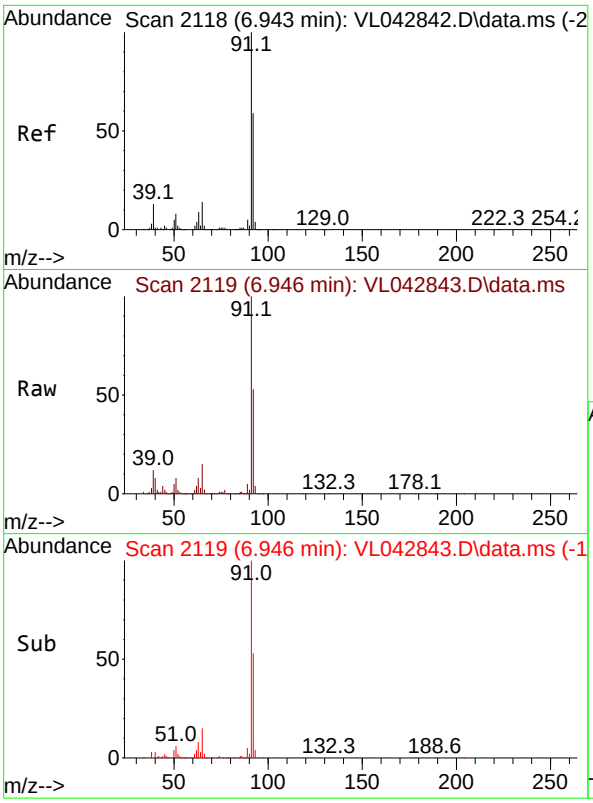


#52
Tetrachloroethene
Concen: 1.990 ppbv
RT: 8.234 min Scan# 2517
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

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



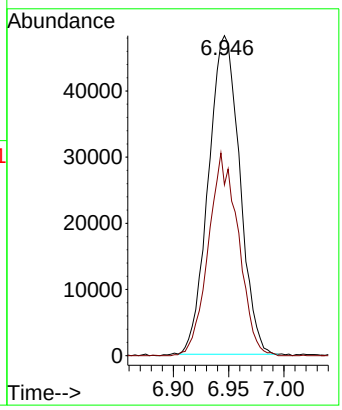


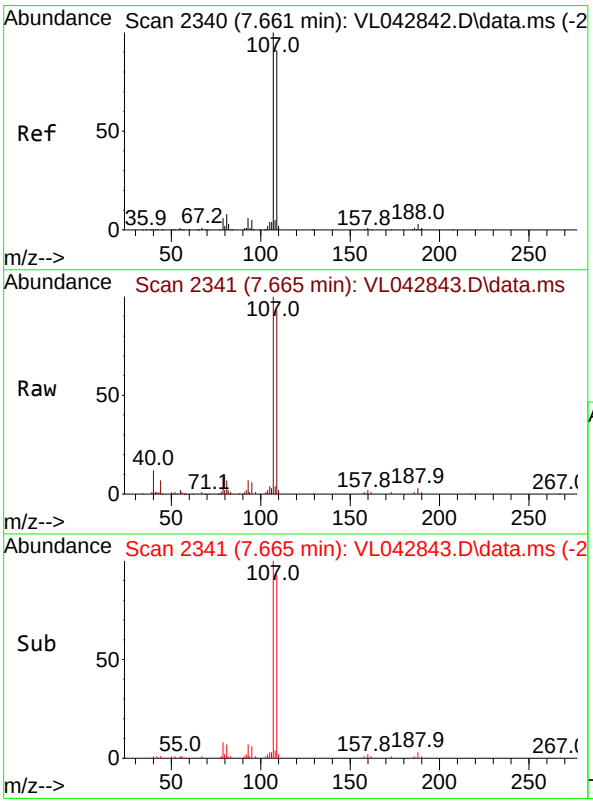
#53
Toluene
Concen: 2.036 ppbv
RT: 6.946 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 91 Resp: 94690

Ion	Ratio	Lower	Upper
91	100		
92	61.1	47.8	71.6

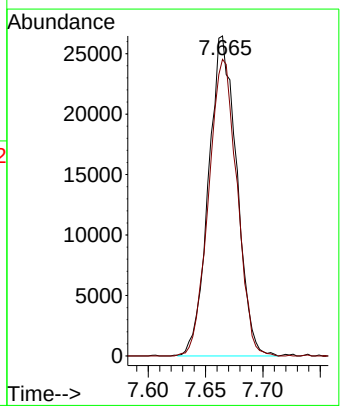


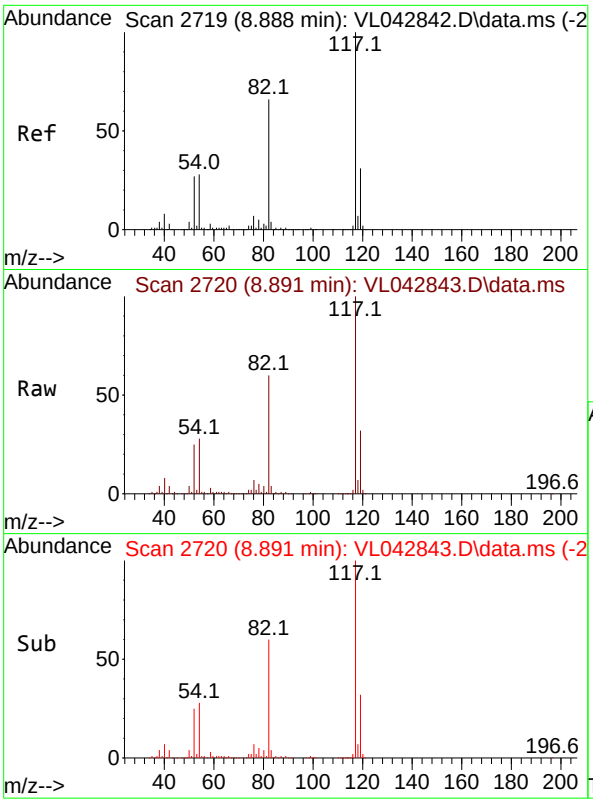


#54
1,2-Dibromoethane
Concen: 2.039 ppbv
RT: 7.665 min Scan# 2341
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion:107 Resp: 45071

Ion	Ratio	Lower	Upper
107	100		
109	92.7	72.5	108.7



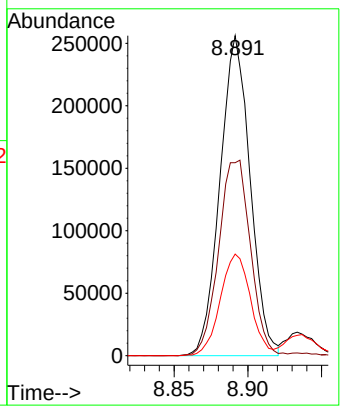


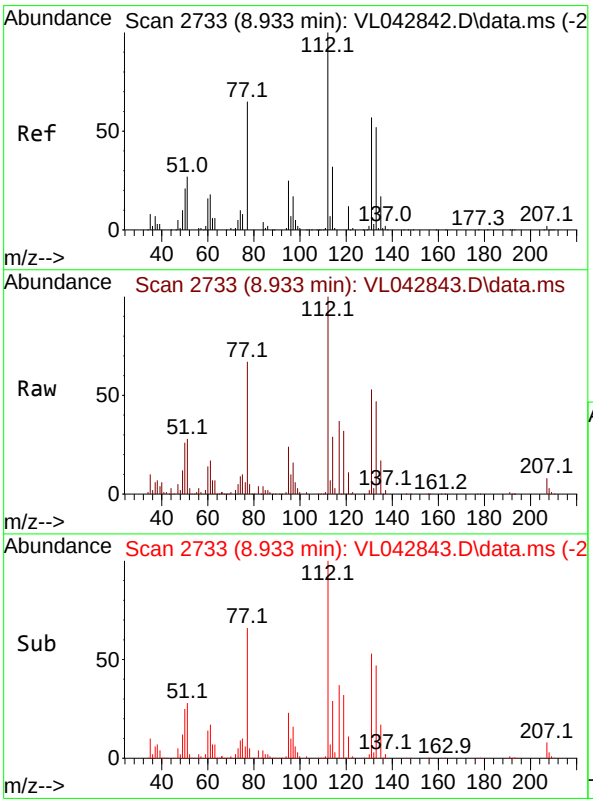
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.891 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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

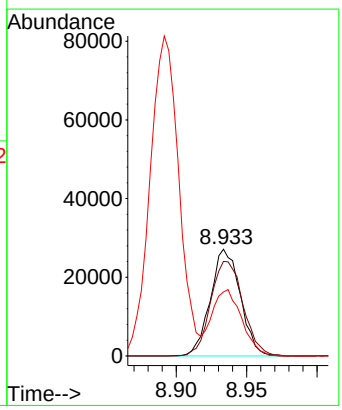


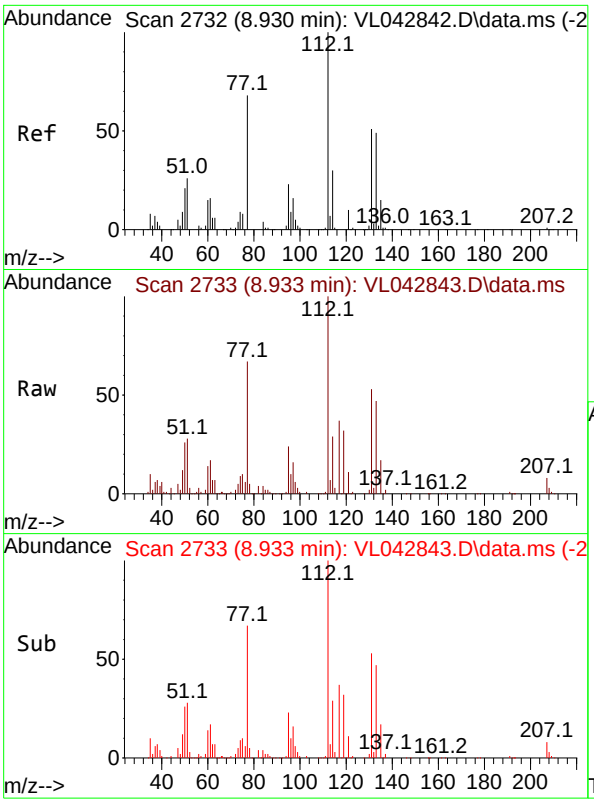


#56
1,1,1,2-Tetrachloroethane
Concen: 2.131 ppbv
RT: 8.933 min Scan# 2733
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

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



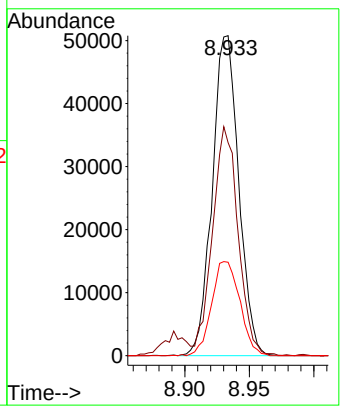


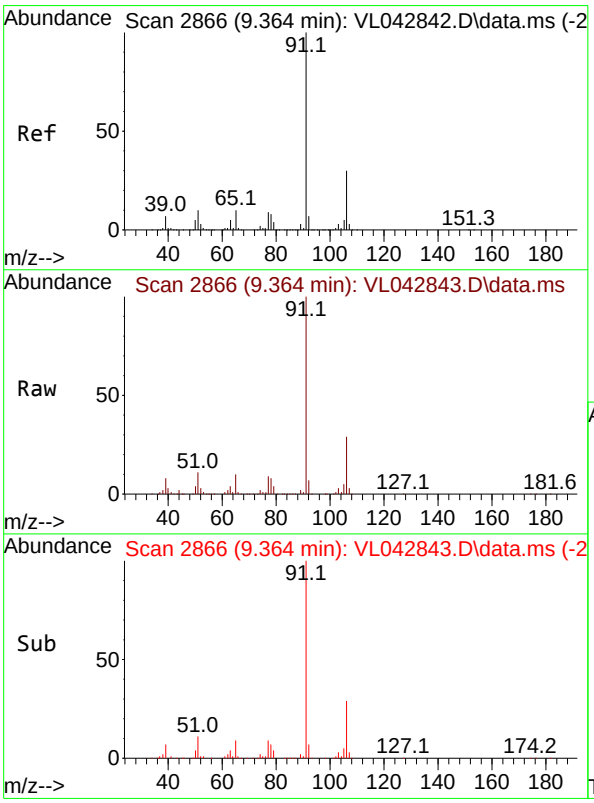
#57
Chlorobenzene
Concen: 2.090 ppbv
RT: 8.933 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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

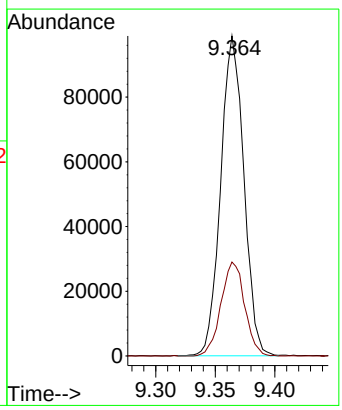


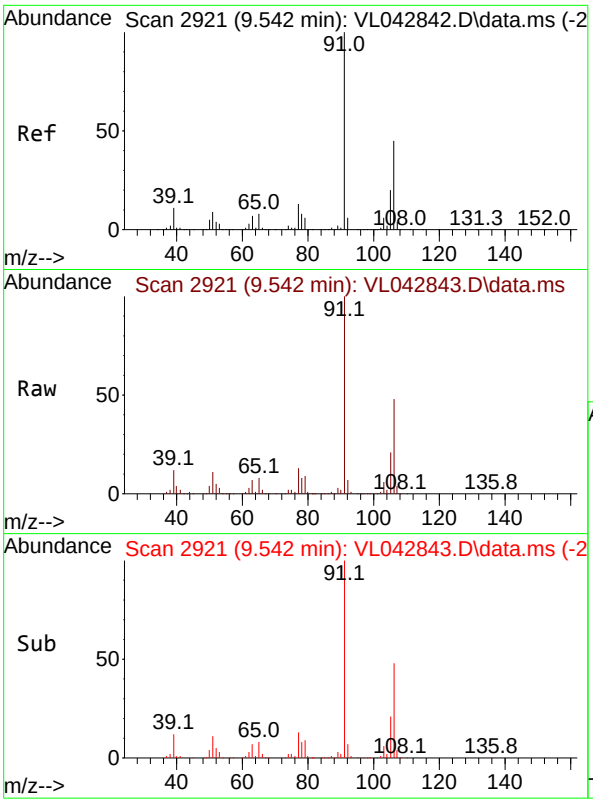


#58
Ethyl Benzene
Concen: 2.083 ppbv
RT: 9.364 min Scan# 2866
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 91 Resp: 133719

Ion	Ratio	Lower	Upper
91	100		
106	29.4	23.9	35.9



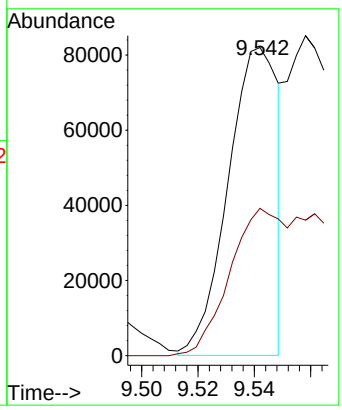


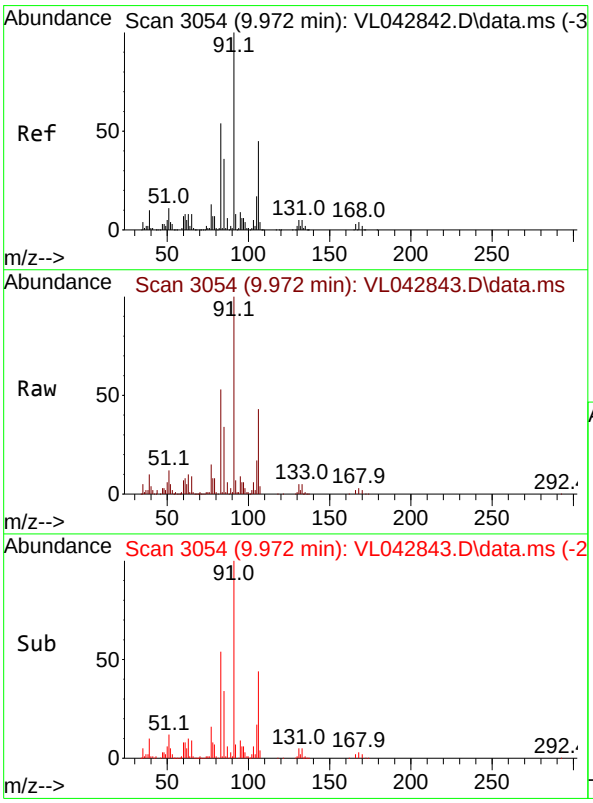
#59
m/p-Xylene
Concen: 1.998 ppbv
RT: 9.542 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 91 Resp: 100699

Ion	Ratio	Lower	Upper
91	100		
106	97.0	0.0	0.0#

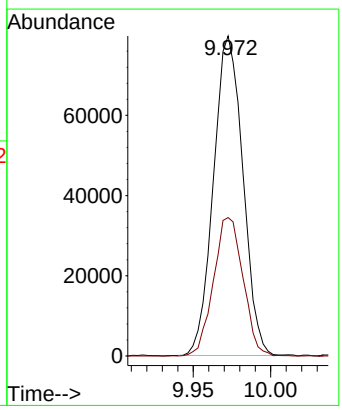


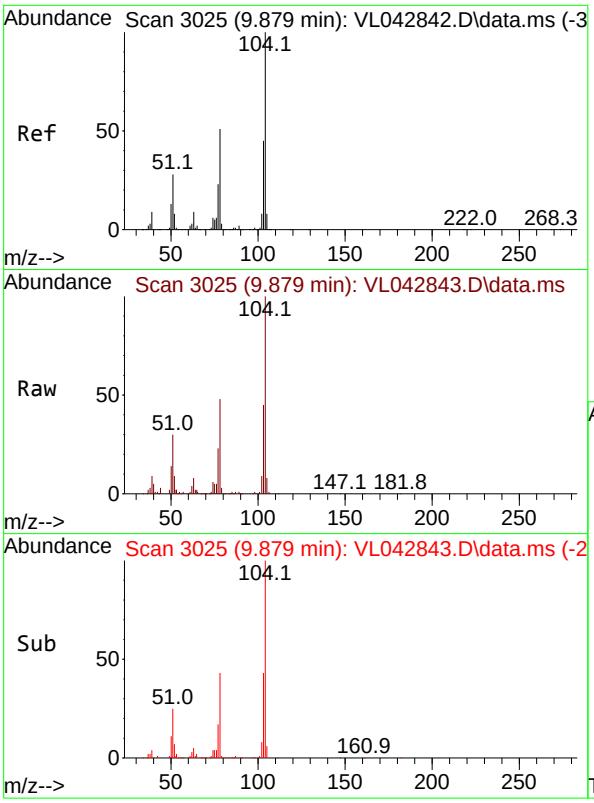


#60
o-Xylene
Concen: 2.077 ppbv
RT: 9.972 min Scan# 3054
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion: 91 Resp: 105125

Ion	Ratio	Lower	Upper
91	100		
106	43.5	21.8	65.4



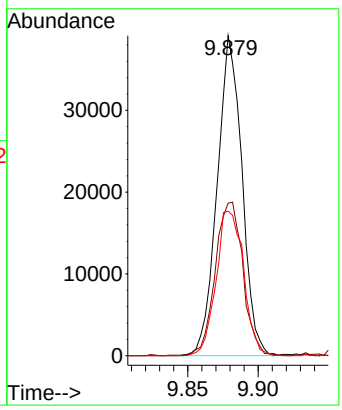


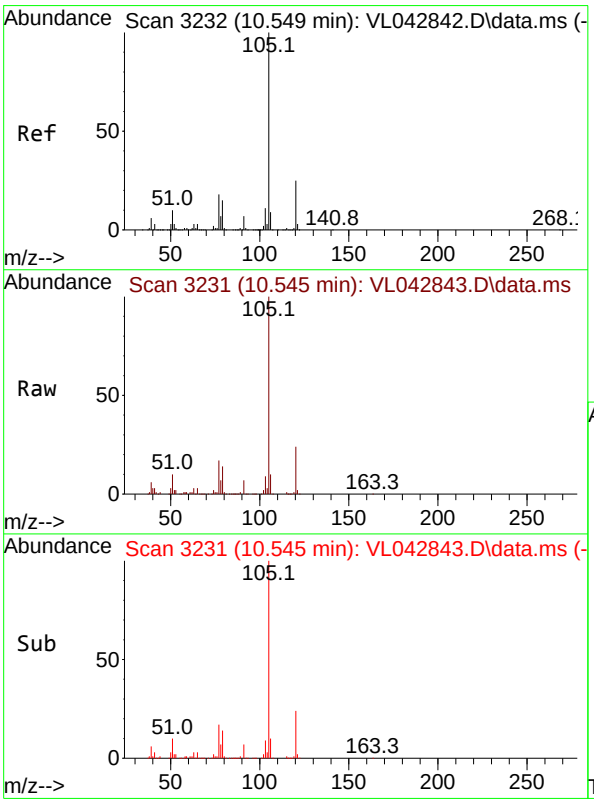
#61
Styrene
Concen: 2.025 ppbv
RT: 9.879 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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

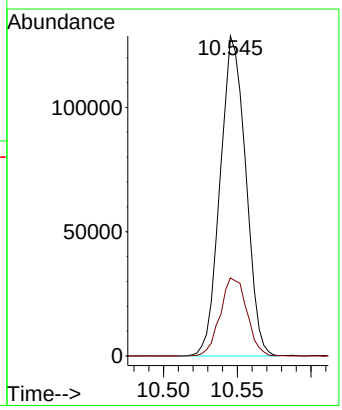


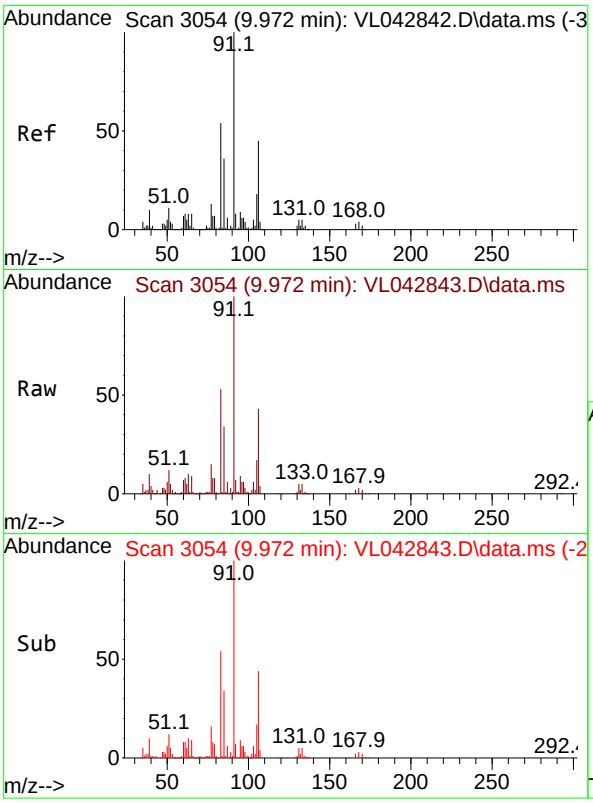


#62
Isopropylbenzene
Concen: 2.098 ppbv
RT: 10.545 min Scan# 3231
Delta R.T. -0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion:105 Resp: 155223

Ion	Ratio	Lower	Upper
105	100		
120	25.5	20.6	30.8



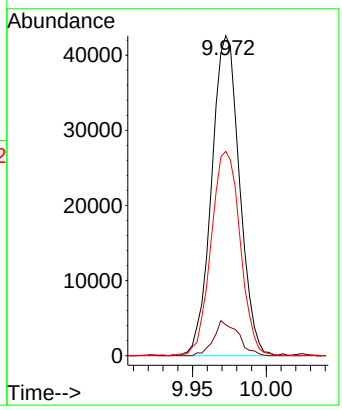


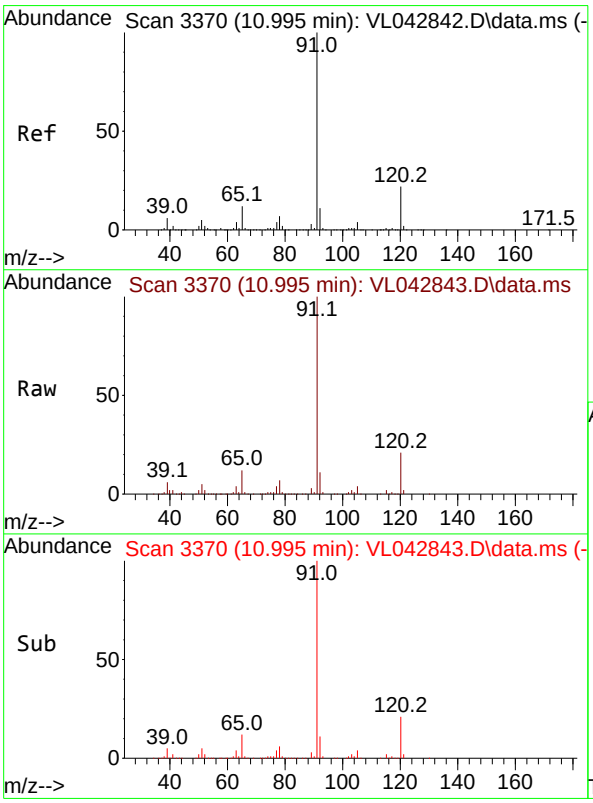
#63
1,1,2,2-Tetrachloroethane
Concen: 2.031 ppbv
RT: 9.972 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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

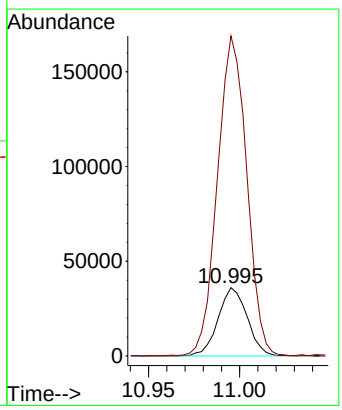


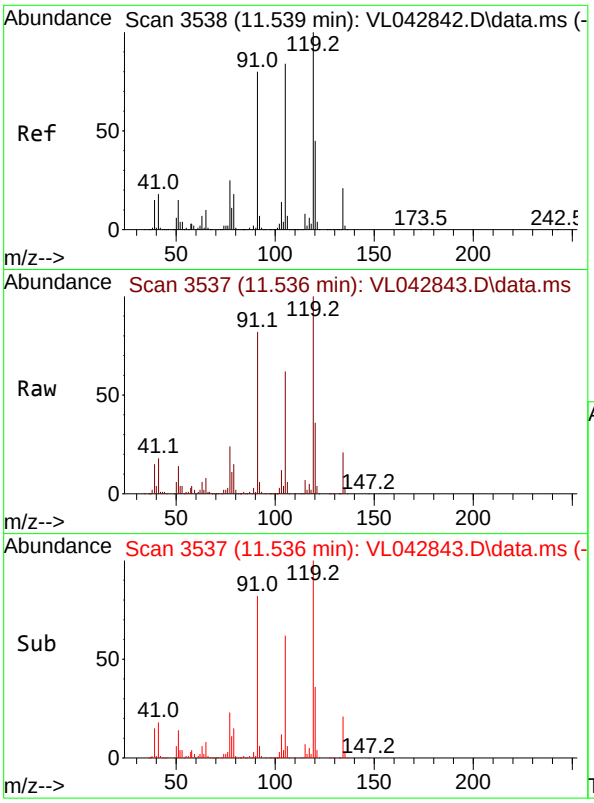


#64
n-propylbenzene
Concen: 2.115 ppbv
RT: 10.995 min Scan# 3370
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Tgt Ion:120 Resp: 39922

Ion	Ratio	Lower	Upper
120	100		
91	476.7	375.8	563.6



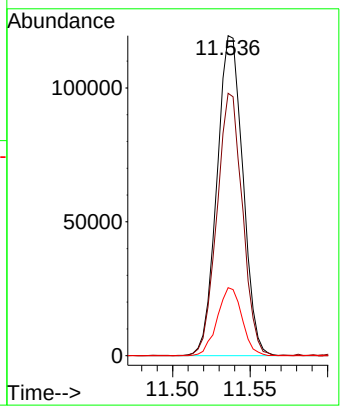


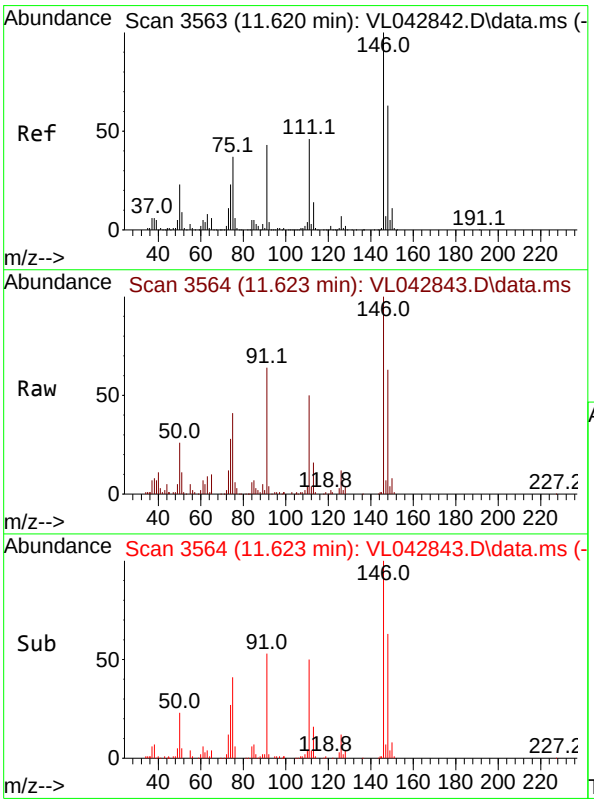
#65
tert-Butylbenzene
Concen: 2.132 ppbv
RT: 11.536 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

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

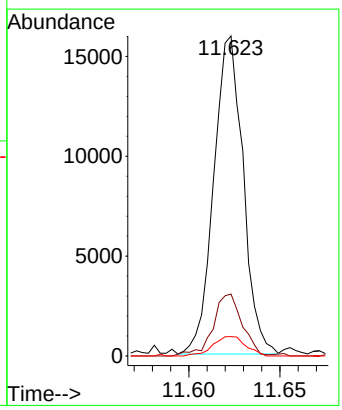


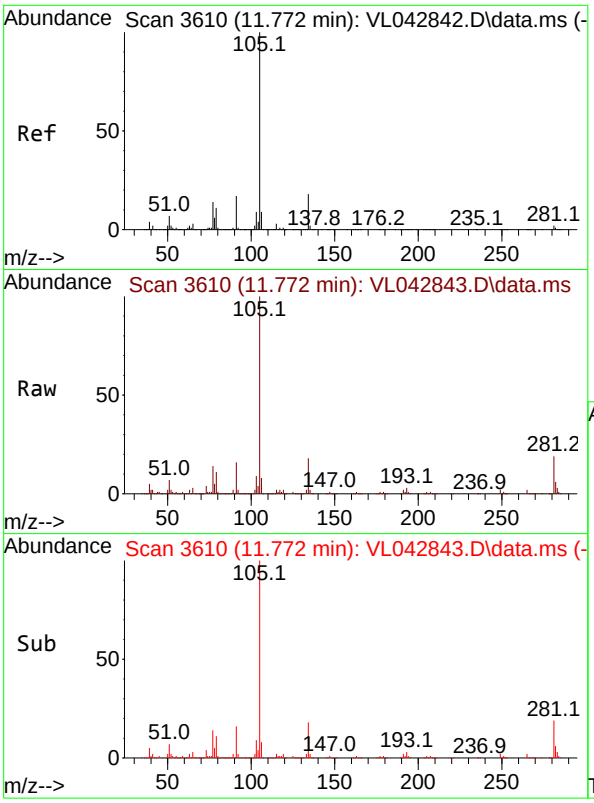


#66
Benzyl Chloride
Concen: 2.161 ppbv
RT: 11.623 min Scan# 3564
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

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



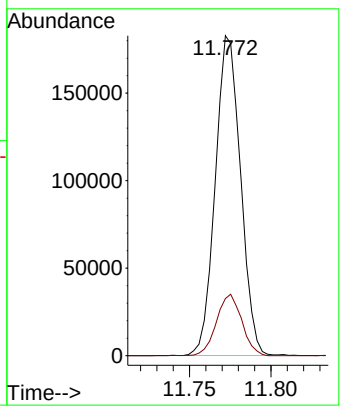


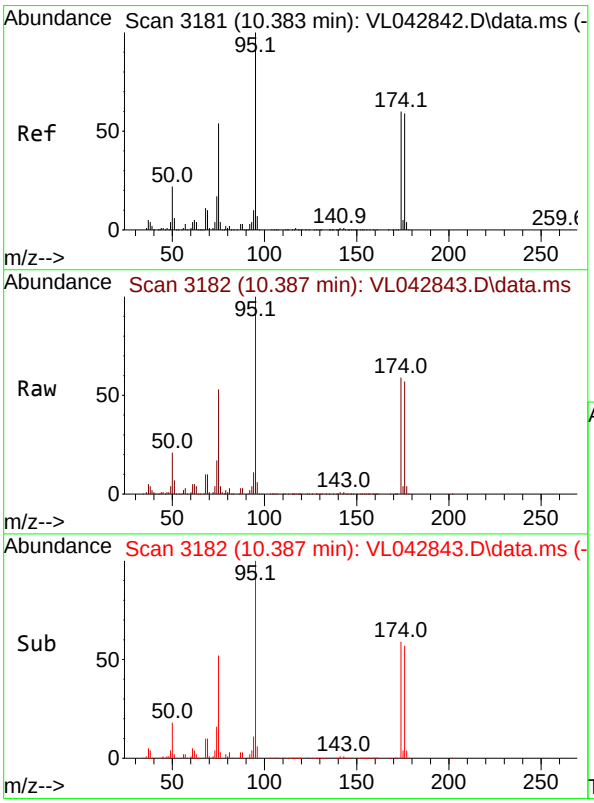
#67
sec-Butylbenzene
Concen: 2.151 ppbv
RT: 11.772 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:105 Resp: 196899

Ion	Ratio	Lower	Upper
105	100		
134	19.3	14.9	22.3

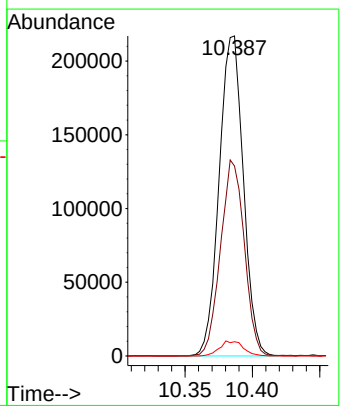


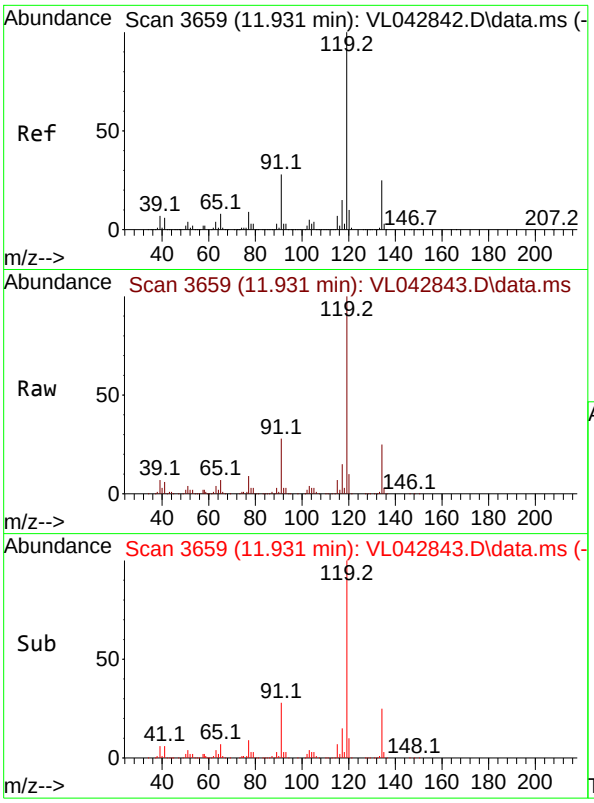


#68
1-Bromo-4-Fluorobenzene
Concen: 9.923 ppbv
RT: 10.387 min Scan# 3182
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

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



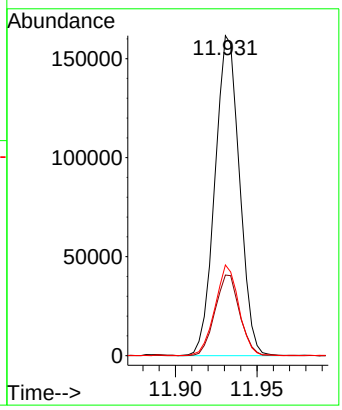


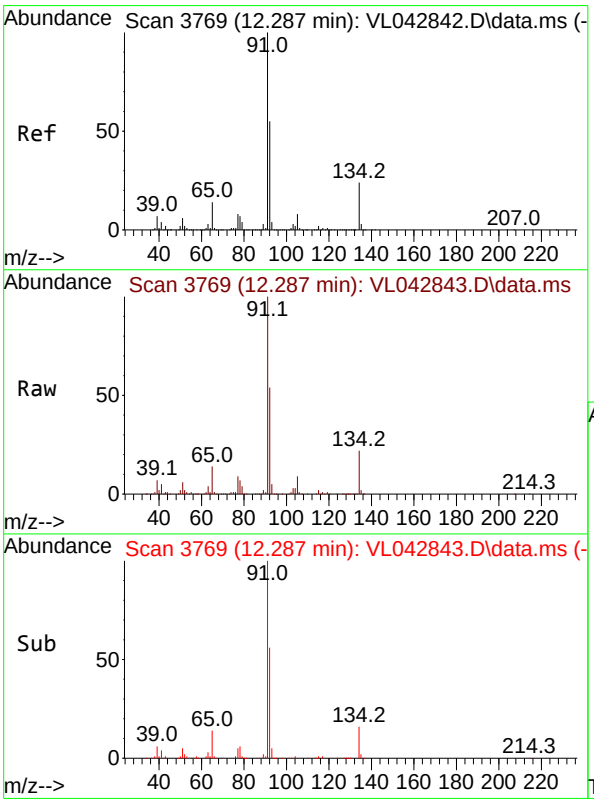
#69
p-Isopropyltoluene
Concen: 2.156 ppbv
RT: 11.931 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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

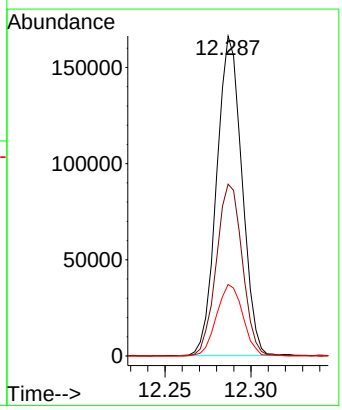


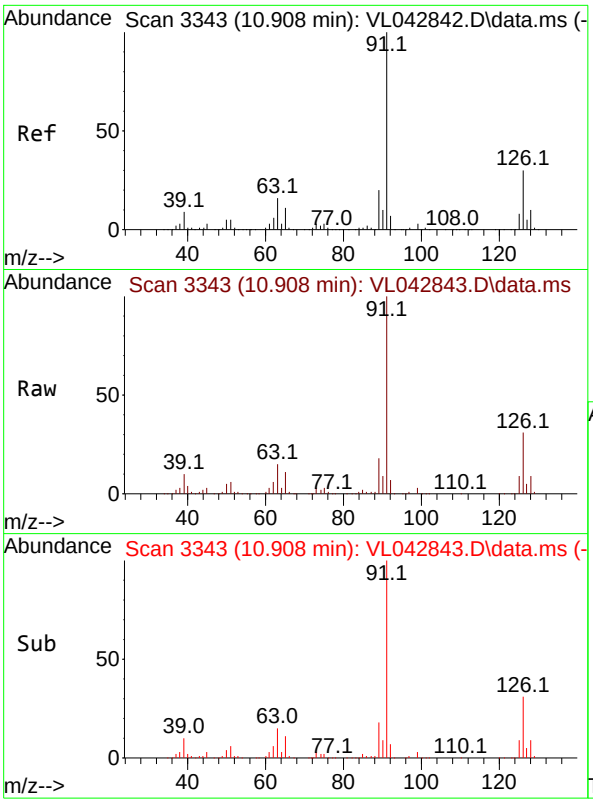


#70
n-Butylbenzene
Concen: 2.178 ppbv
RT: 12.287 min Scan# 3769
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

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



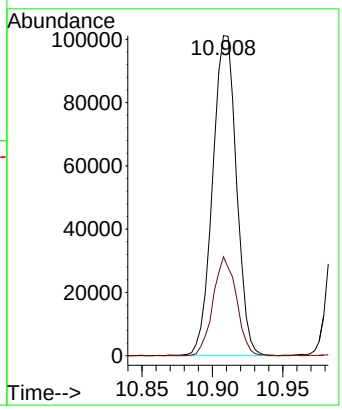


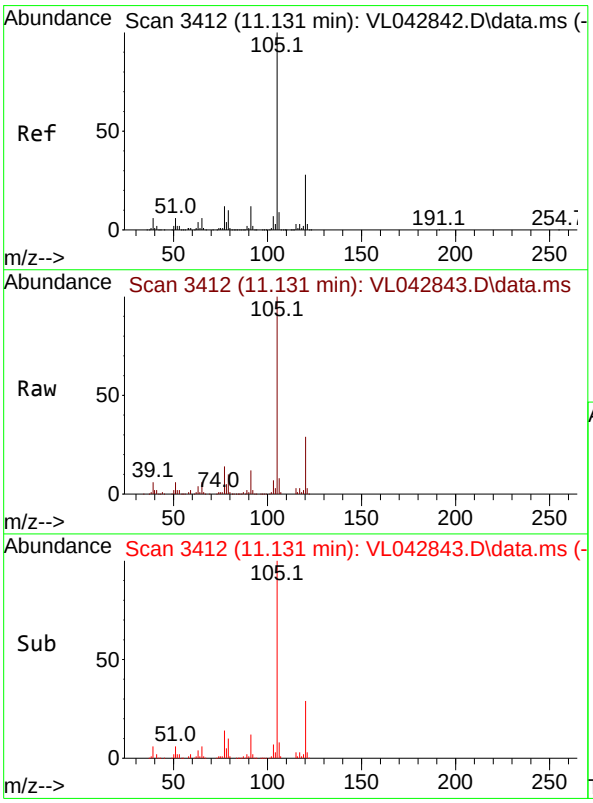
#71
2-Chlorotoluene
Concen: 2.078 ppbv
RT: 10.908 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 91 Resp: 119382

Ion	Ratio	Lower	Upper
91	100		
126	30.2	12.0	47.8

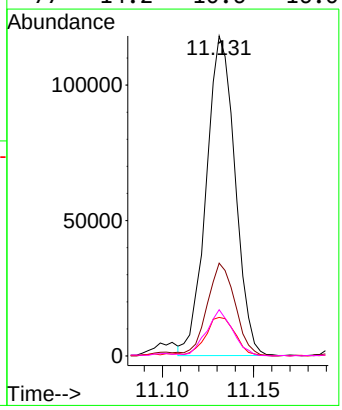


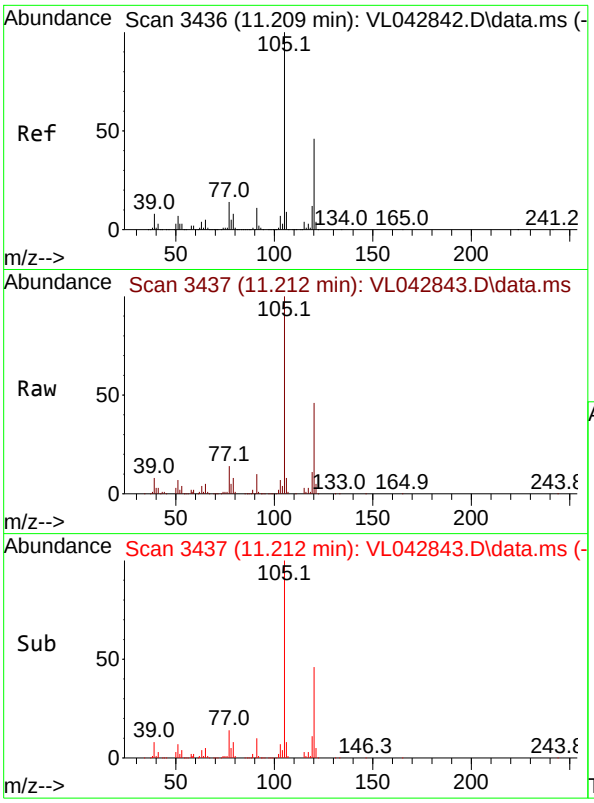


#72
4-Ethyltoluene
Concen: 2.115 ppbv
RT: 11.131 min Scan# 3412
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

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



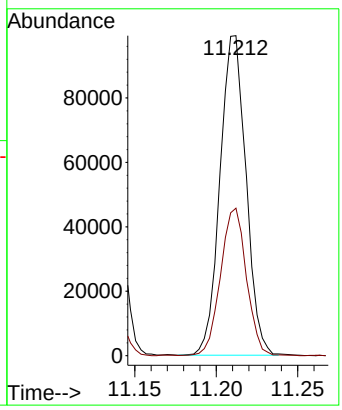


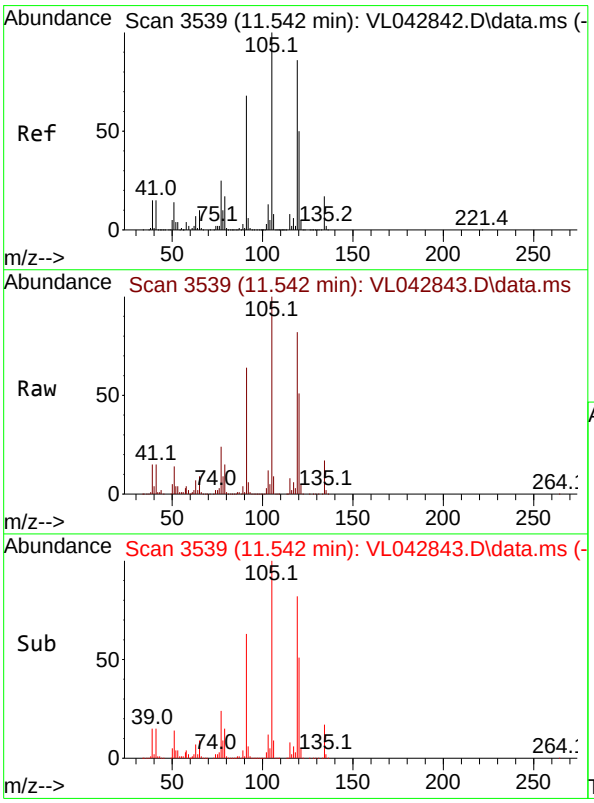
#73
1,3,5-Trimethylbenzene
Concen: 2.109 ppbv
RT: 11.212 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:105 Resp: 110043

Ion	Ratio	Lower	Upper
105	100		
120	46.1	36.6	54.8

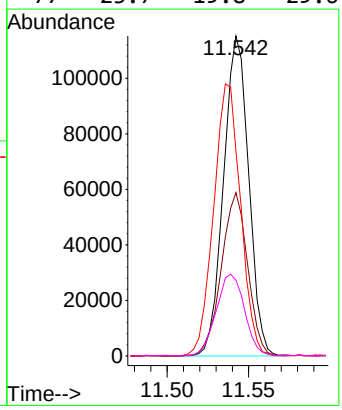


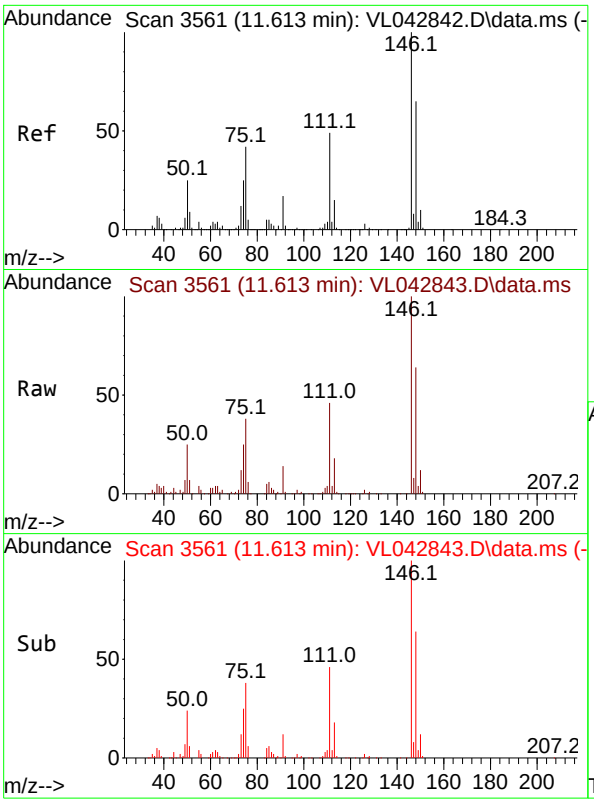


#74
1,2,4-Trimethylbenzene
Concen: 2.157 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

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



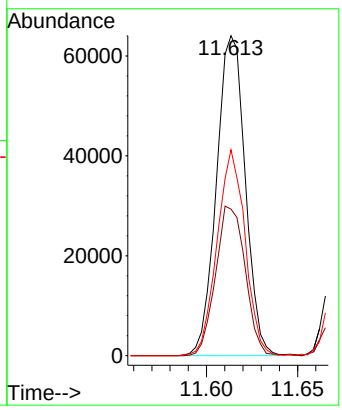


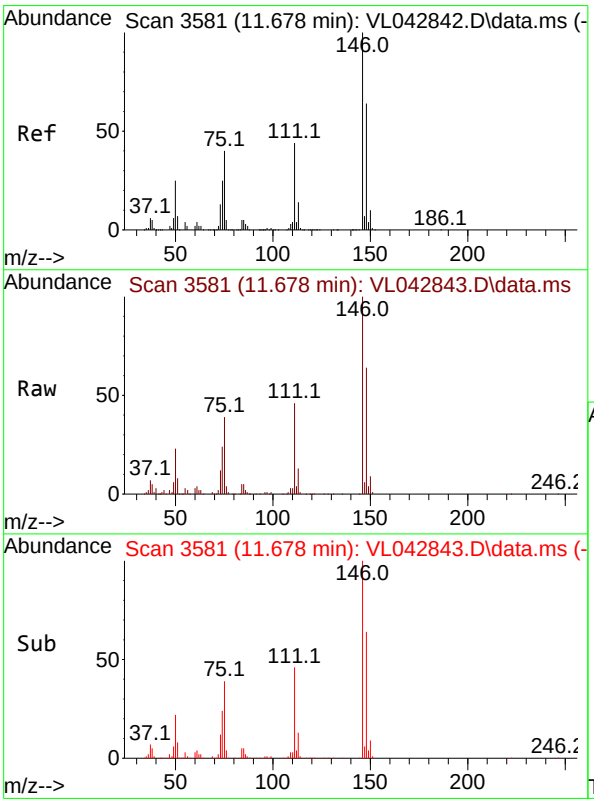
#75
1,3-Dichlorobenzene
Concen: 2.160 ppbv
RT: 11.613 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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

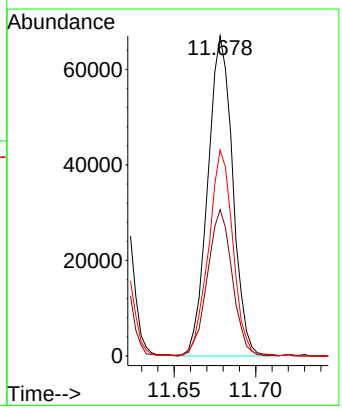


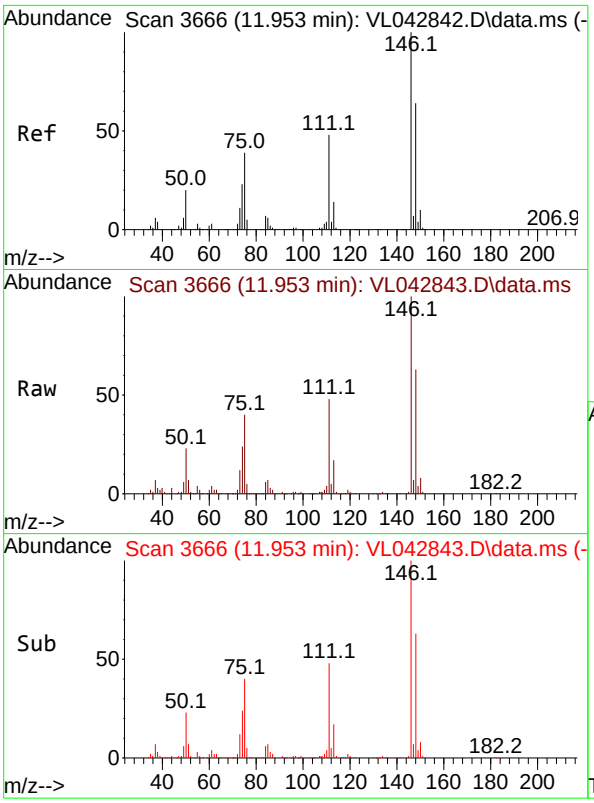


#76
1,4-Dichlorobenzene
Concen: 2.161 ppbv
RT: 11.678 min Scan# 3581
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

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



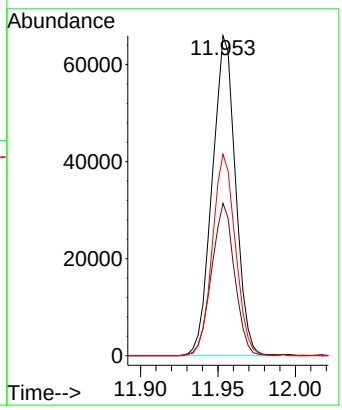


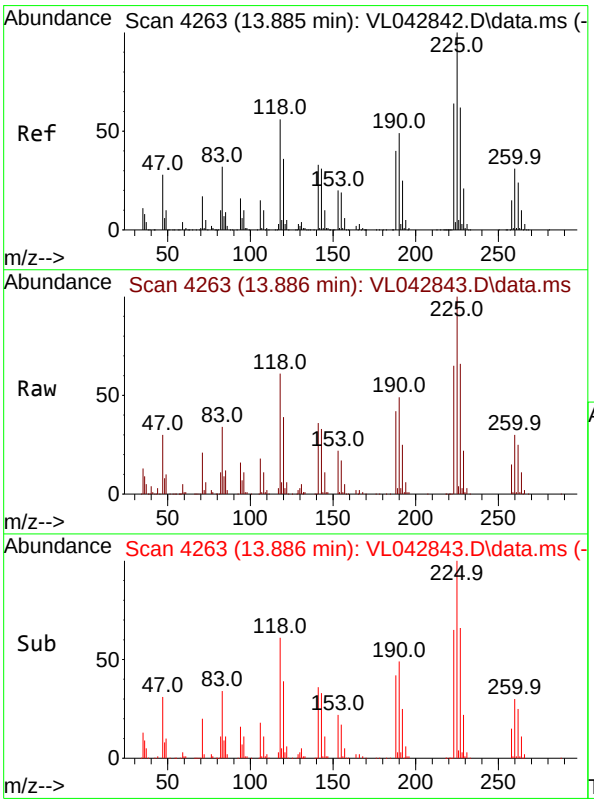
#77
1,2-Dichlorobenzene
Concen: 2.162 ppbv
RT: 11.953 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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

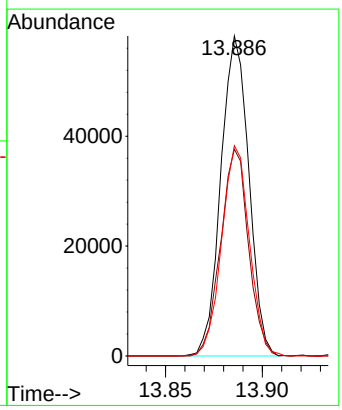


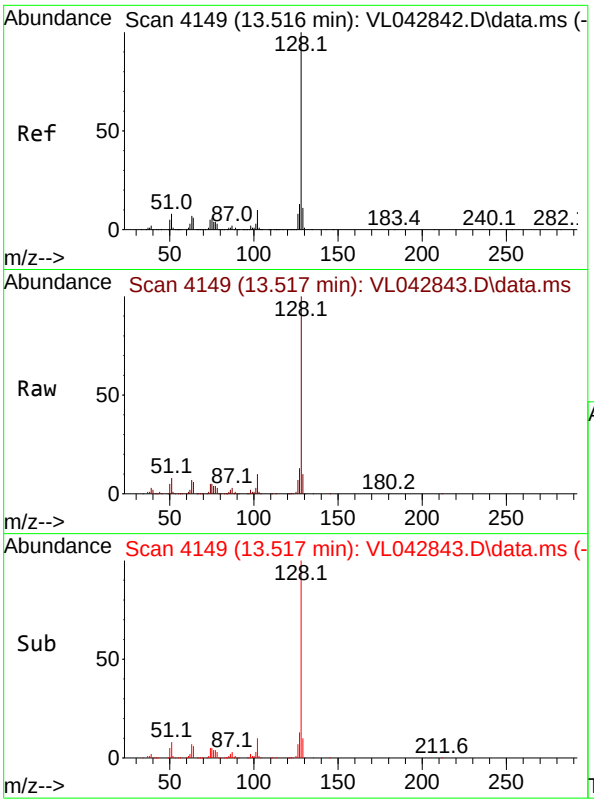


#78
Hexachloro-1,3-Butadiene
Concen: 2.239 ppbv
RT: 13.886 min Scan# 4263
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

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



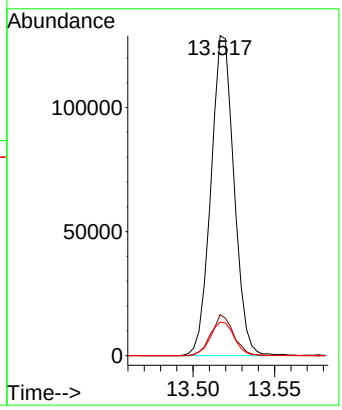


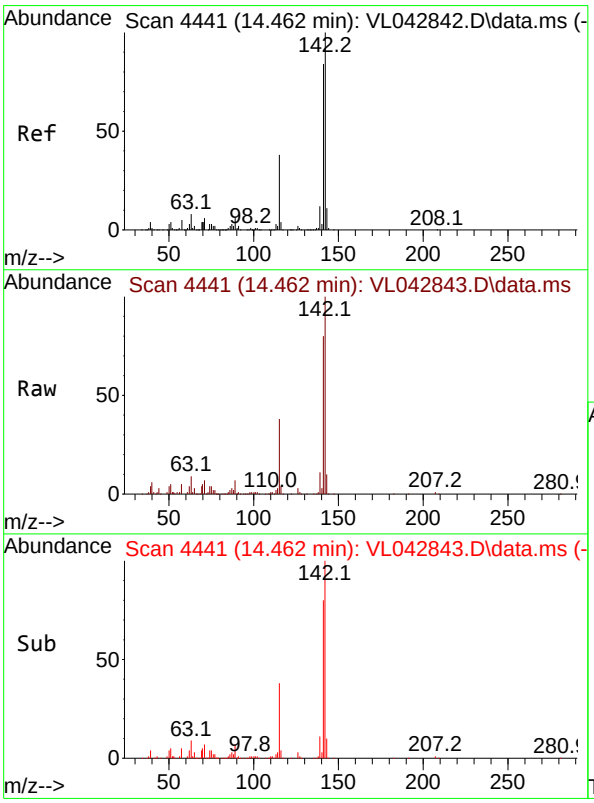
#79
Naphthalene
Concen: 2.478 ppbv
RT: 13.517 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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

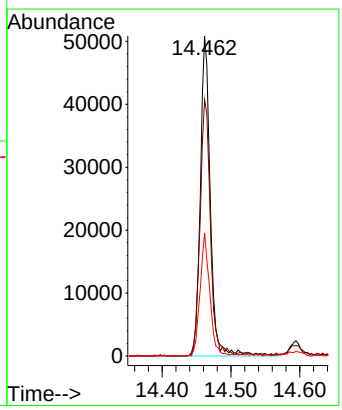


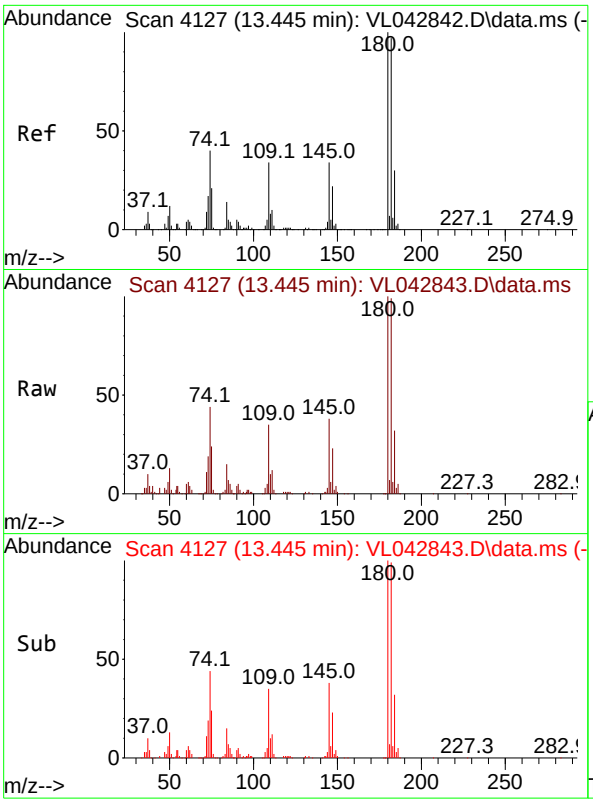


#80
Naphthalene,2-methyl-
Concen: 2.670 ppbv
RT: 14.462 min Scan# 4441
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

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



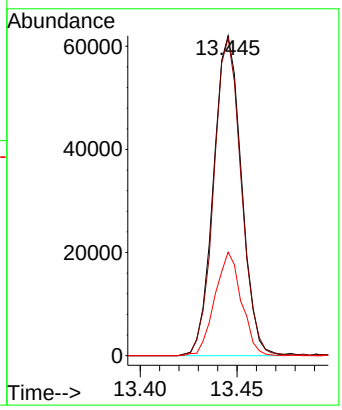


#81
1,2,4-Trichlorobenzene
Concen: 2.384 ppbv
RT: 13.445 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042843.D
Acq: 13 Aug 2025 09:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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



Quantitation Report (Not Reviewed)

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_LFri 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

Quantitation Report (Not Reviewed)

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_LFri Aug 26 06:05:16 2022
QLast Update : Thu Aug 14 01:44:36 2025
Response via : Initial Calibration

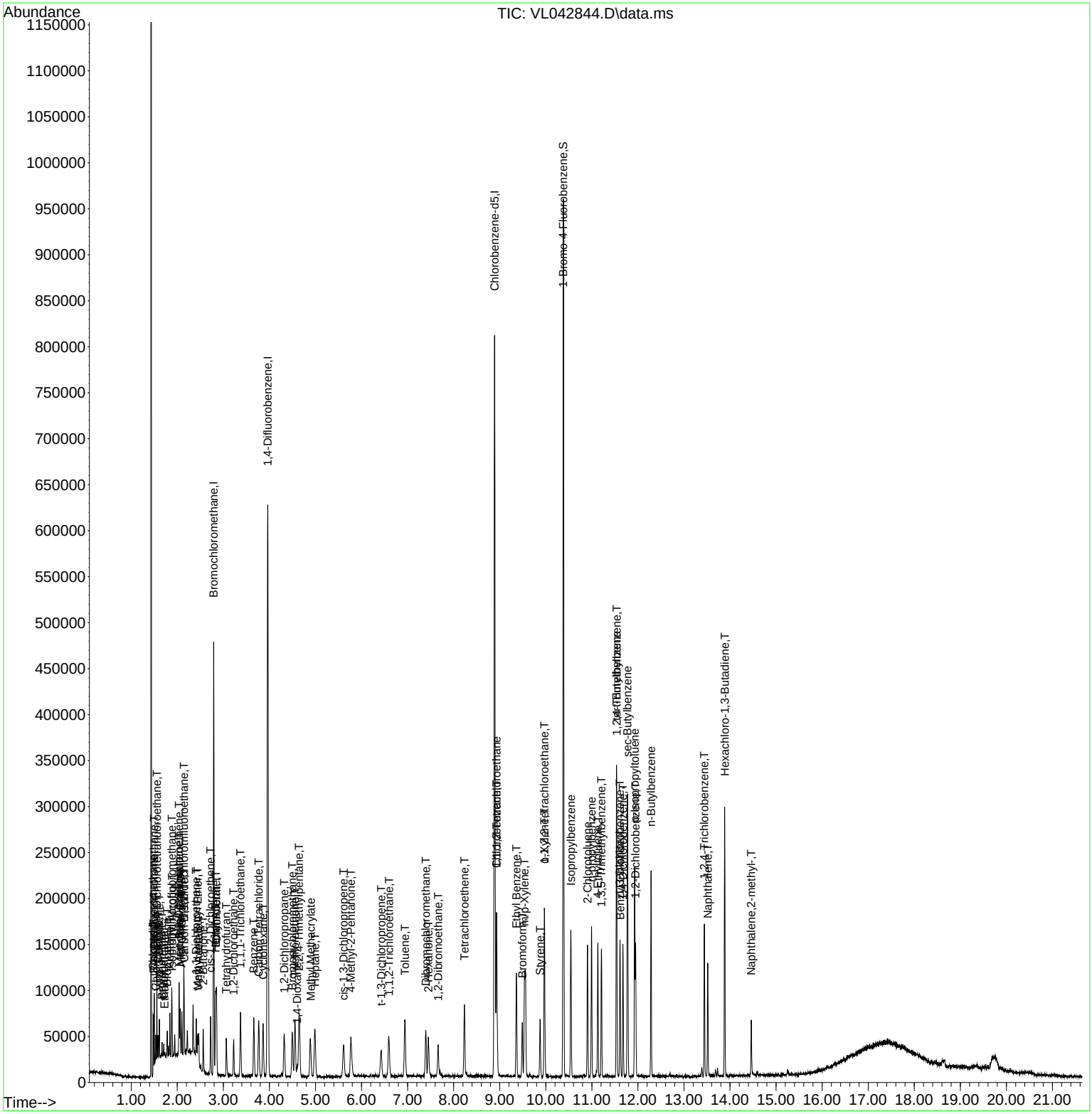
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.610	75	22372	0.999	ppbv		94
47) 1,1,2-Trichloroethane	6.597	97	15295	1.032	ppbv		86
48) Dibromochloromethane	7.396	129	24214	1.009	ppbv		99
49) Bromoform	9.490	173	20579	1.040	ppbv		98
50) 4-Methyl-2-Pentanone	5.768	43	36710	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

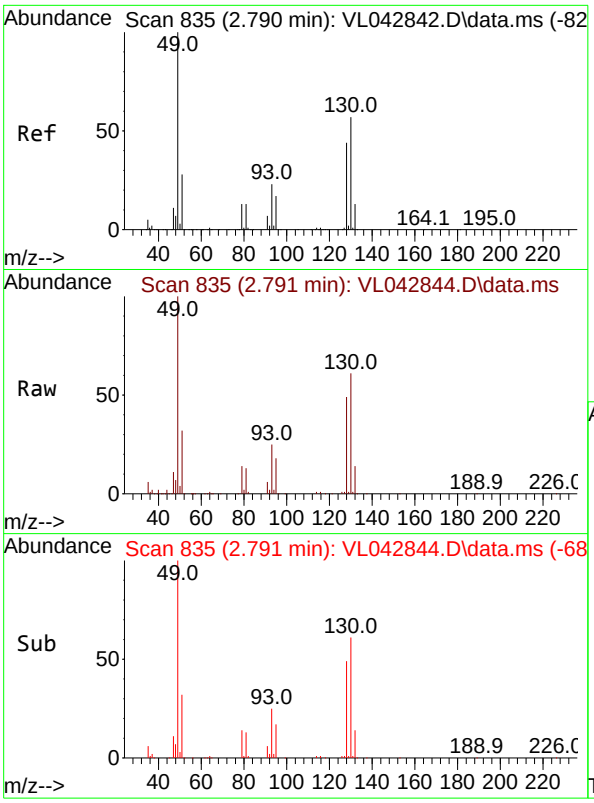
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
Data File : VL042844.D
Acq On : 13 Aug 2025 09:41
Operator : SY/MD
Sample : 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_LFri Aug 26 06:05:16 2022
QLast Update : Thu Aug 14 01:44:36 2025
Response via : Initial Calibration



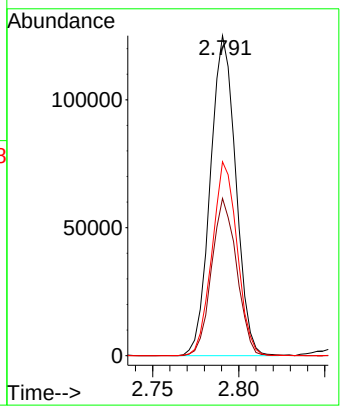


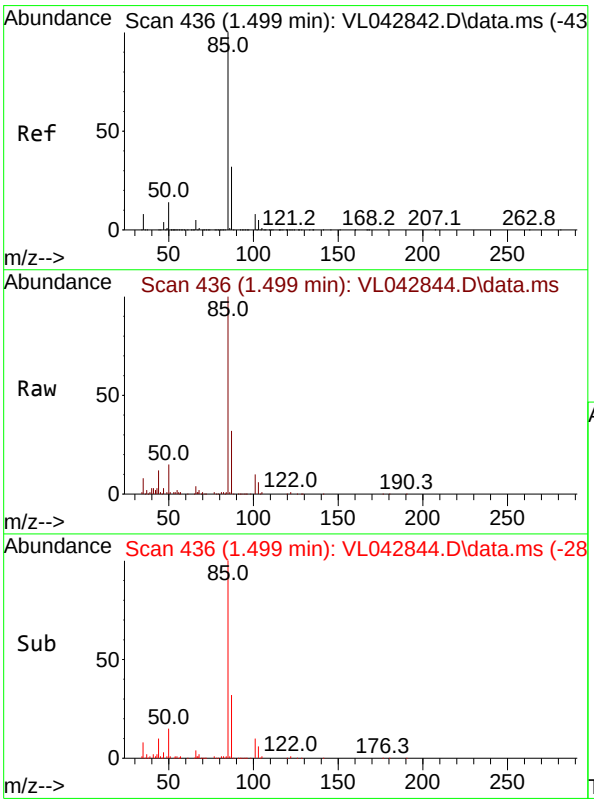
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.791 min Scan# 8
Delta R.T. 0.001 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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

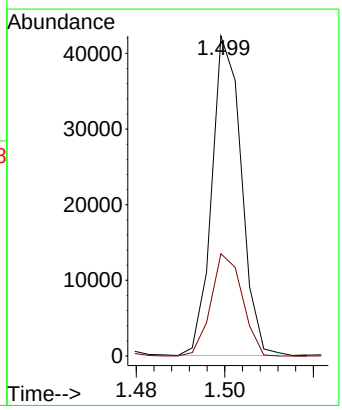


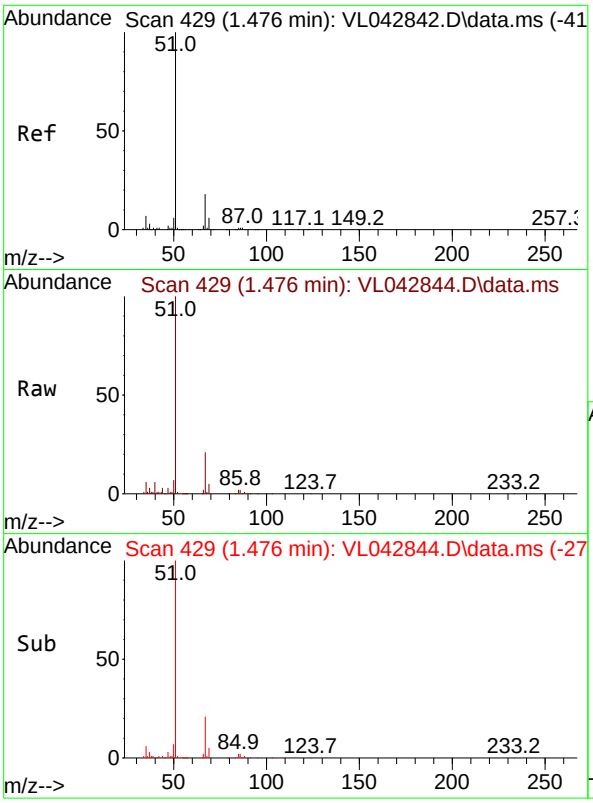


#2
Dichlorodifluoromethane
Concen: 1.041 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 85 Resp: 19603

Ion	Ratio	Lower	Upper
85	100		
87	32.0	25.3	37.9



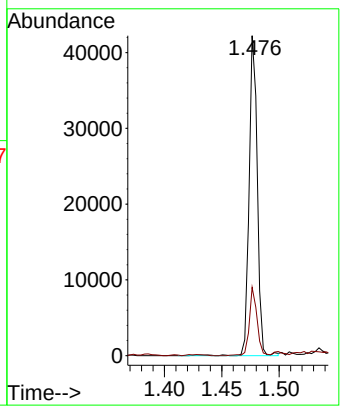


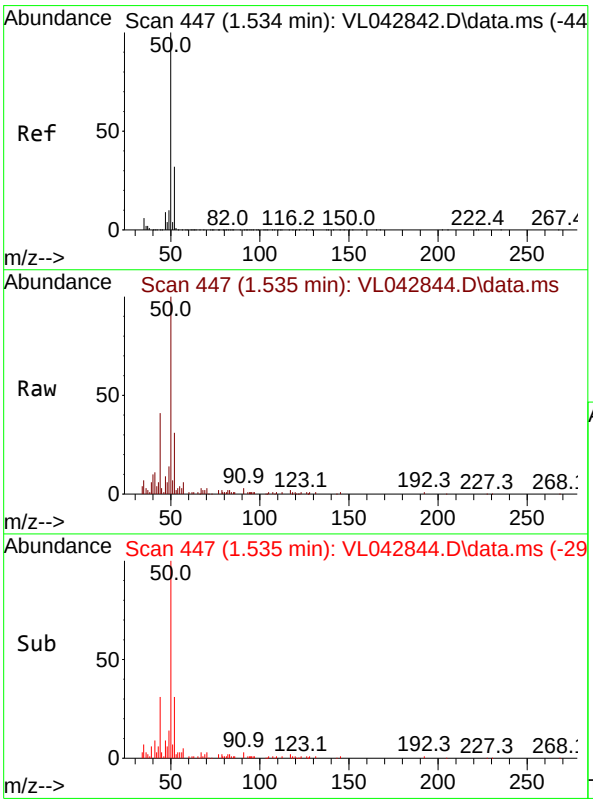
#3
Chlorodifluoromethane
Concen: 0.999 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 51 Resp: 20833

Ion	Ratio	Lower	Upper
51	100		
67	21.9	14.9	22.3

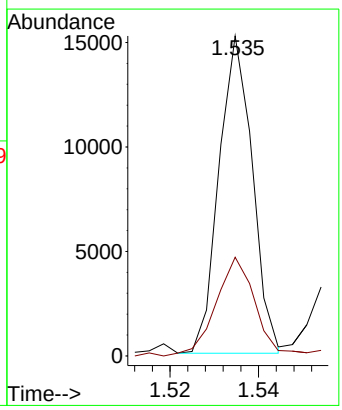


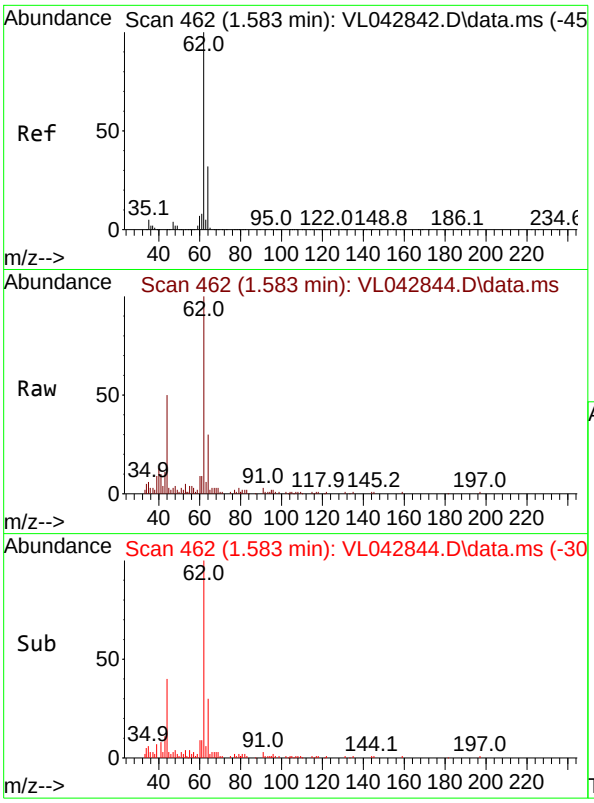


#4
Chloromethane
Concen: 1.045 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 50 Resp: 7948

Ion	Ratio	Lower	Upper
50	100		
52	30.2	25.9	38.9



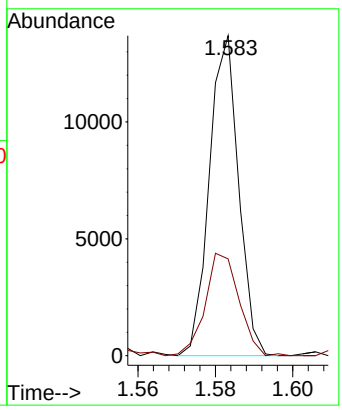


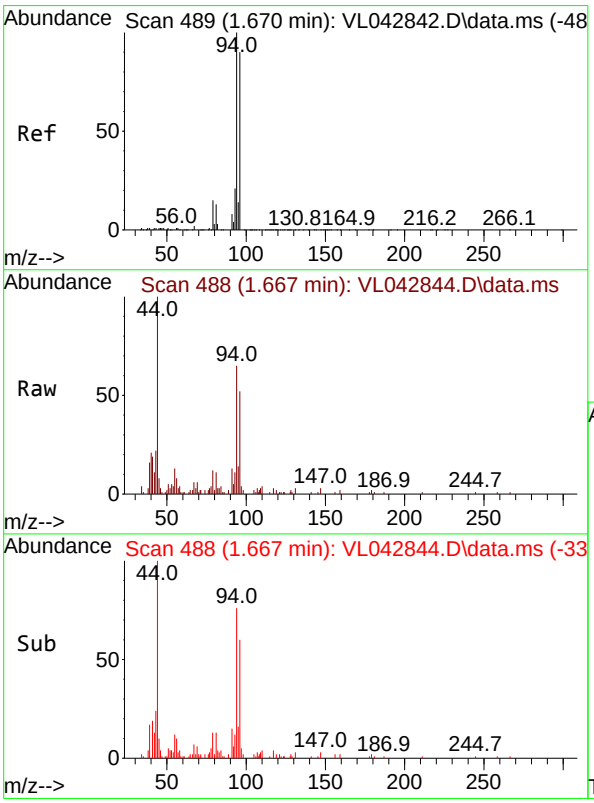
#5
Vinyl Chloride
Concen: 0.960 ppbv
RT: 1.583 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 62 Resp: 7189

Ion	Ratio	Lower	Upper
62	100		
64	29.7	25.4	38.2

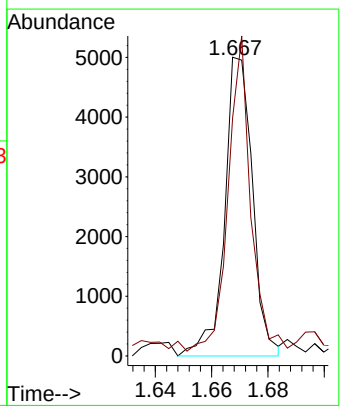


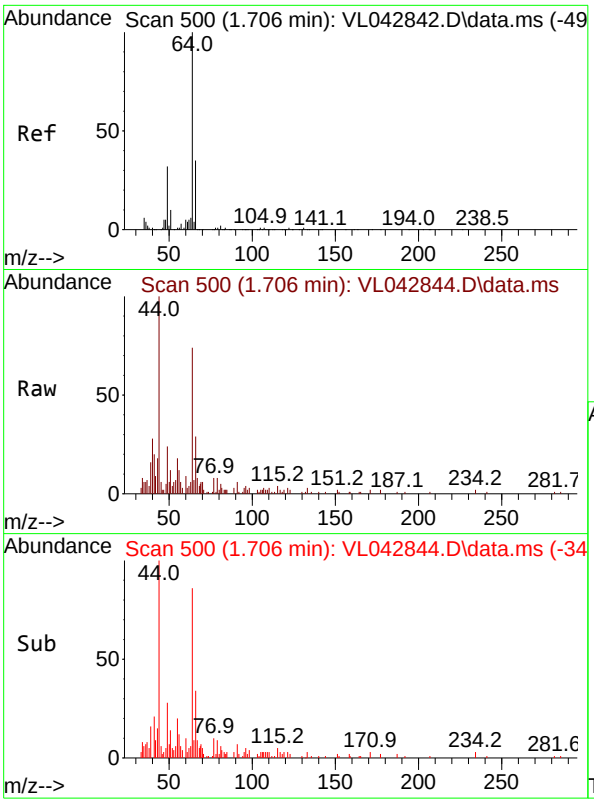


#6
Bromomethane
Concen: 1.151 ppbv
RT: 1.667 min Scan# 488
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 94 Resp: 3446

Ion	Ratio	Lower	Upper
94	100		
96	74.7	72.1	108.1



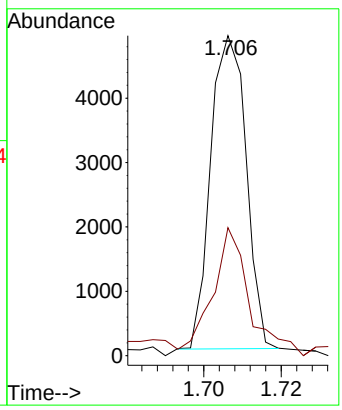


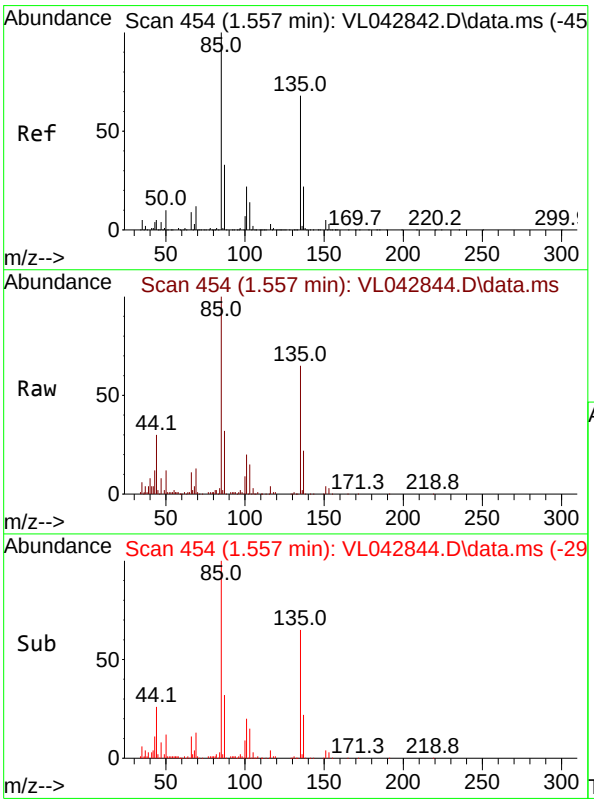
#7
Chloroethane
Concen: 1.056 ppbv
RT: 1.706 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 64 Resp: 3089

Ion	Ratio	Lower	Upper
64	100		
66	40.0	28.6	42.8

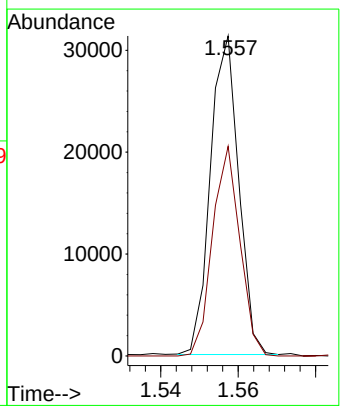


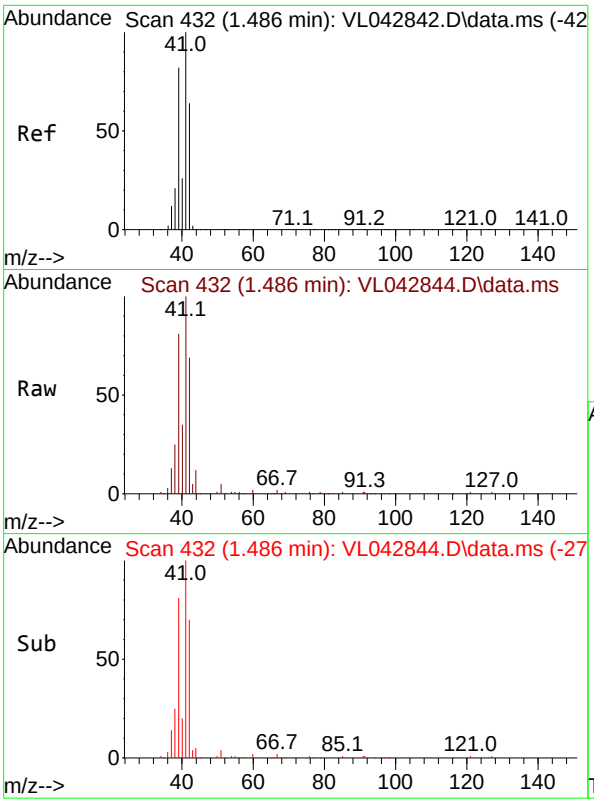


#8
Dichlorotetrafluoroethane
Concen: 1.030 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 85 Resp: 15872

Ion	Ratio	Lower	Upper
85	100		
135	63.7	51.2	76.8



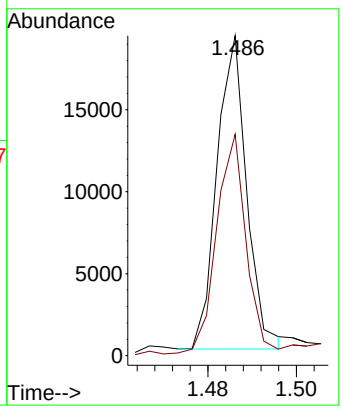


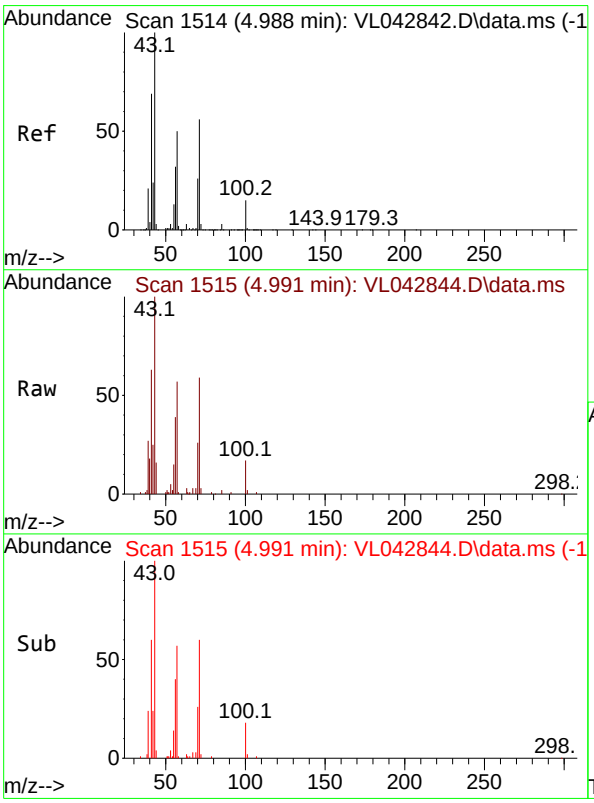
#9
Propene
Concen: 0.989 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 41 Resp: 8897

Ion	Ratio	Lower	Upper
41	100		
42	74.9	53.0	79.4

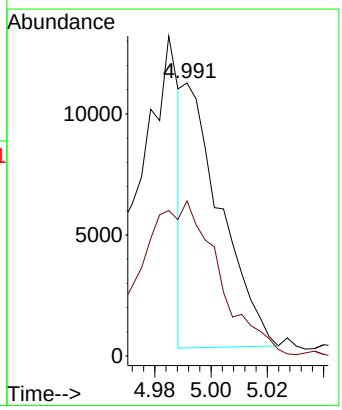


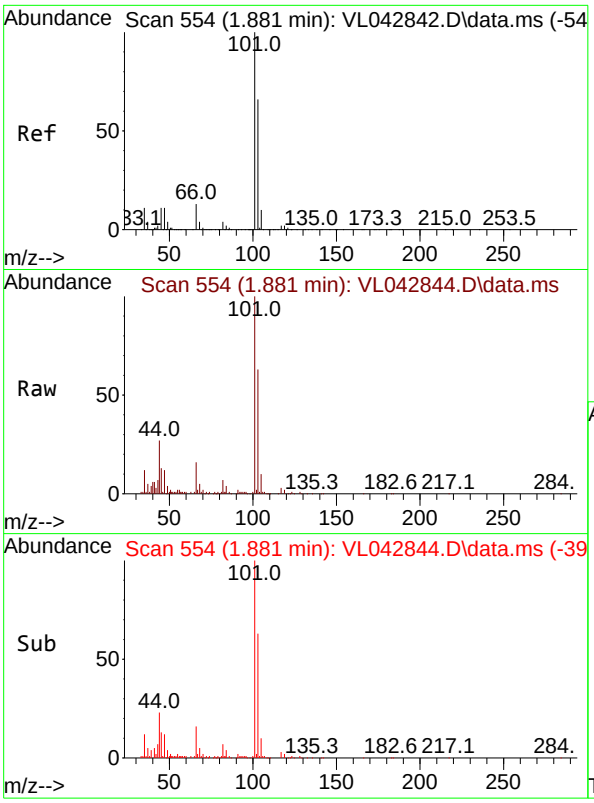


#10
Heptane
Concen: 0.419 ppbv
RT: 4.991 min Scan# 1515
Delta R.T. 0.004 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 43 Resp: 10068

Ion	Ratio	Lower	Upper
43	100		
57	133.5	41.4	62.0#



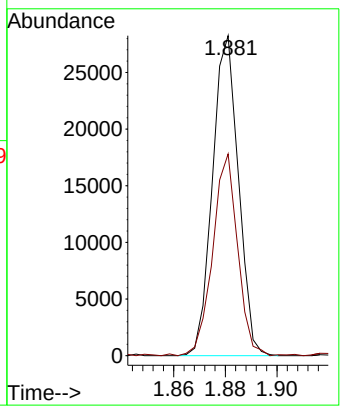


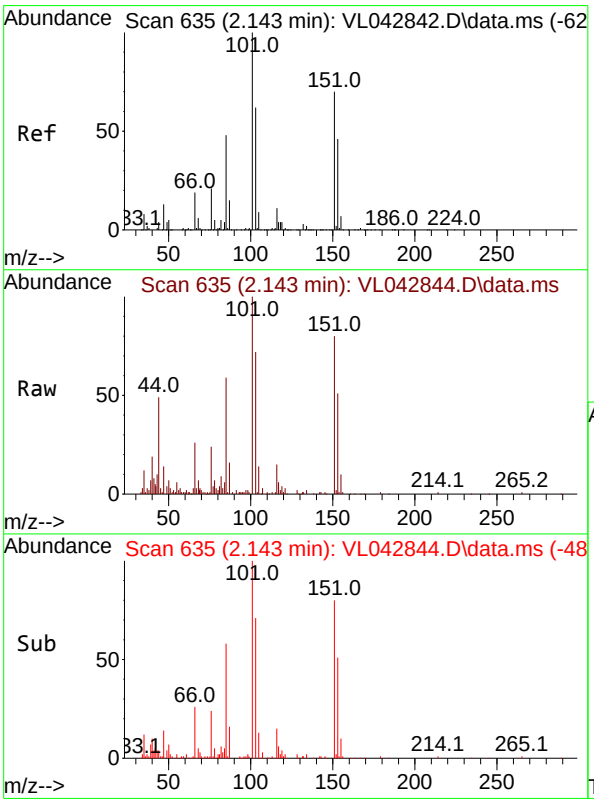
#11
Trichlorofluoromethane
Concen: 1.060 ppbv
RT: 1.881 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:101 Resp: 19701

Ion	Ratio	Lower	Upper
101	100		
103	62.8	52.5	78.7

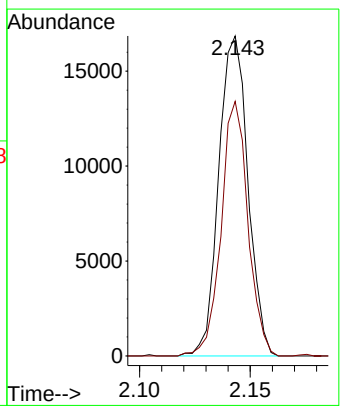


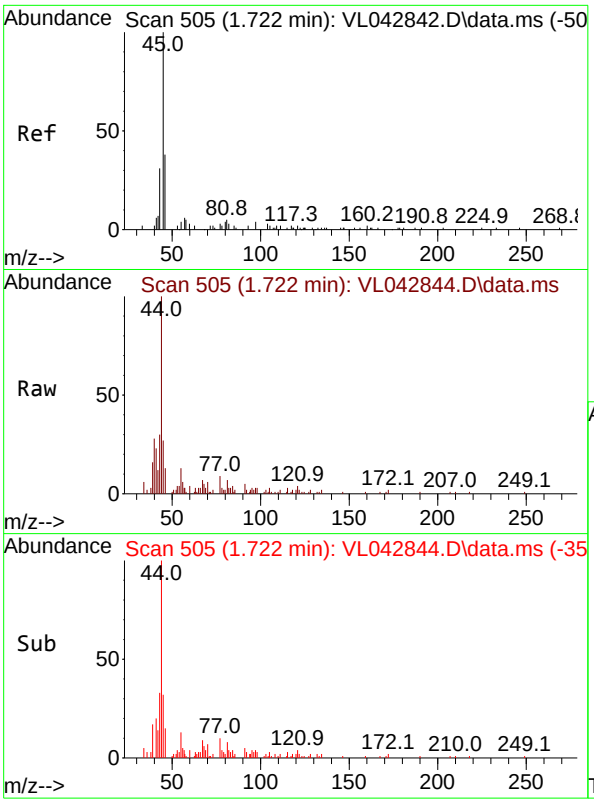


#12
1,1,2-Trichlorotrifluoroethane
Concen: 1.043 ppbv
RT: 2.143 min Scan# 635
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion:101 Resp: 15446

Ion	Ratio	Lower	Upper
101	100		
151	73.2	56.4	84.6



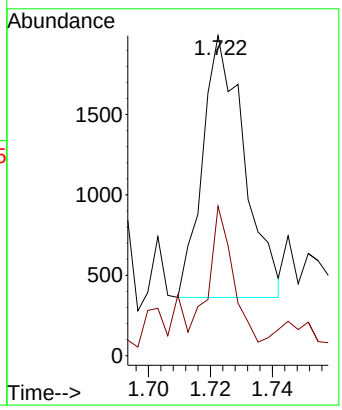


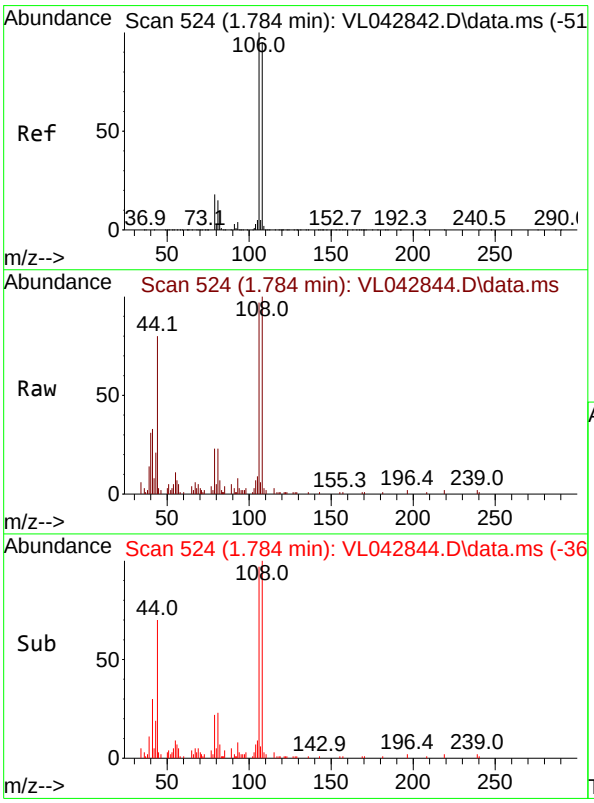
#13
Ethanol
Concen: 1.705 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 45 Resp: 1519

Ion	Ratio	Lower	Upper
45	100		
46	53.5	17.5	69.9

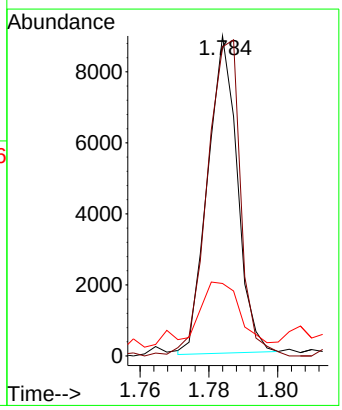


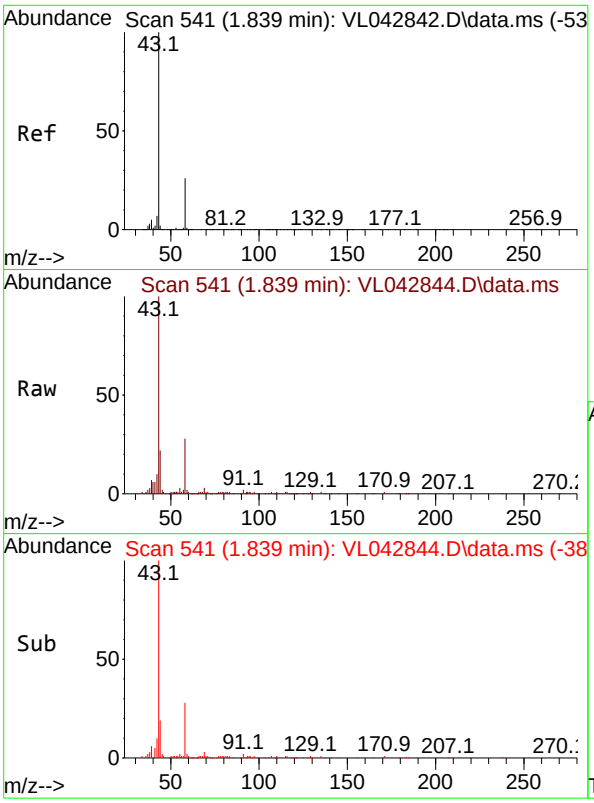


#14
Bromoethene
Concen: 0.996 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

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#



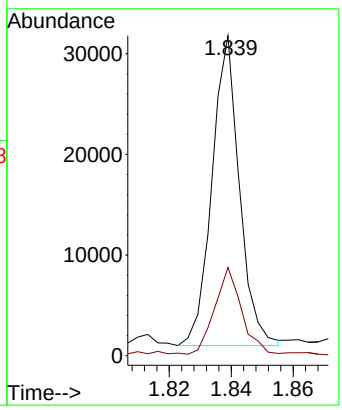


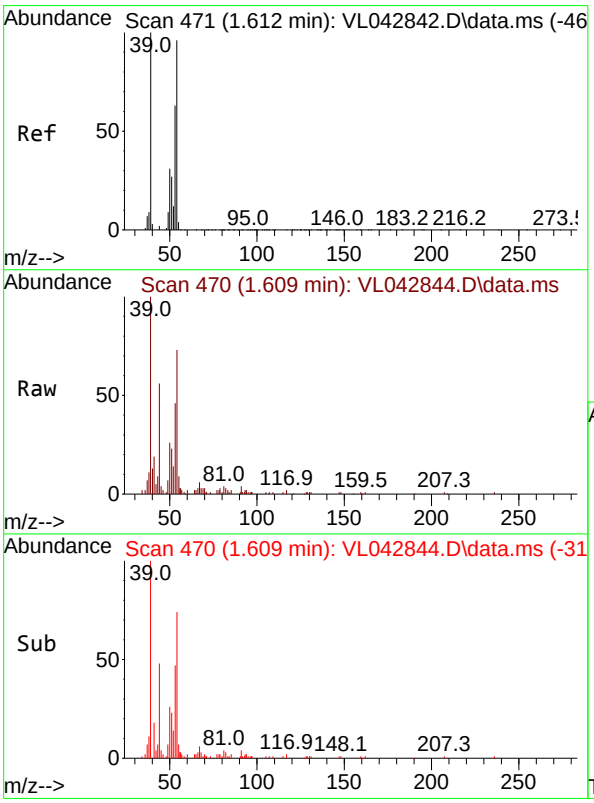
#15
Acetone
Concen: 1.115 ppbv
RT: 1.839 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 18961

Ion	Ratio	Lower	Upper
43	100		
58	29.1	22.4	33.6

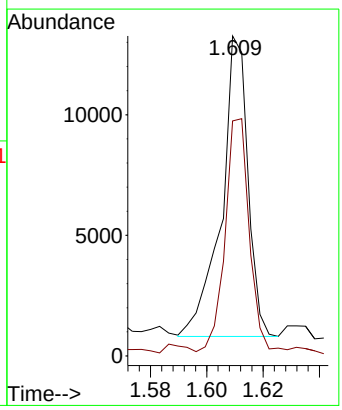


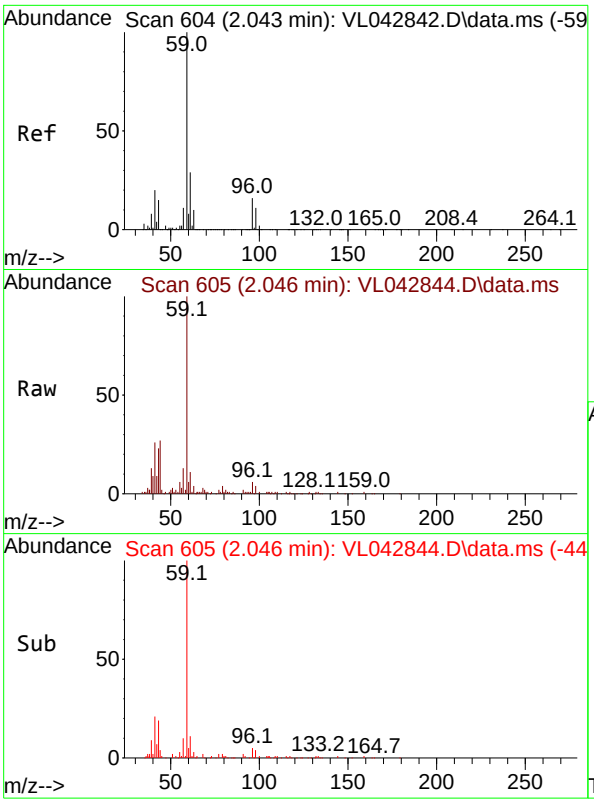


#16
1,3-Butadiene
Concen: 1.055 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 39 Resp: 8133

Ion	Ratio	Lower	Upper
39	100		
54	78.0	63.6	95.4



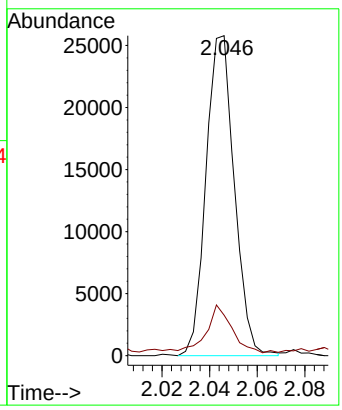


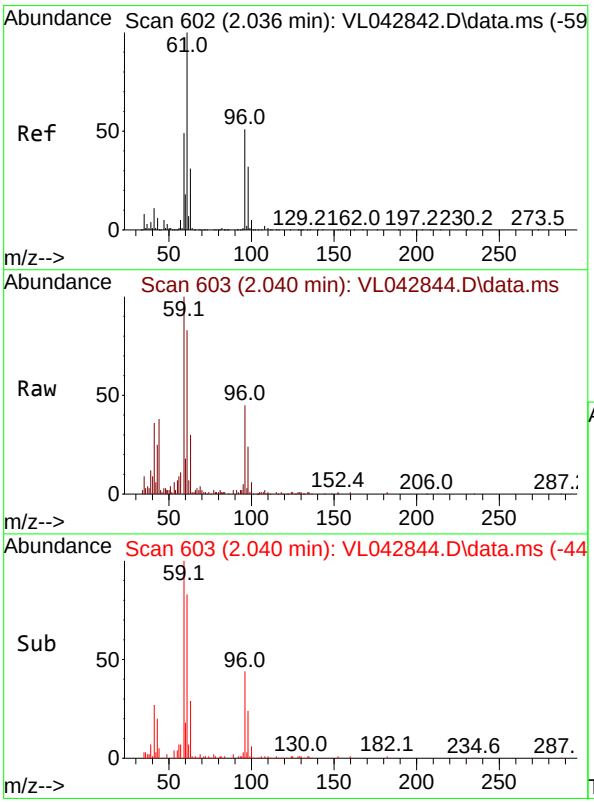
#17
tert-Butyl alcohol
Concen: 1.058 ppbv
RT: 2.046 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 59 Resp: 21342

Ion	Ratio	Lower	Upper
59	100		
57	13.7	9.0	13.4#

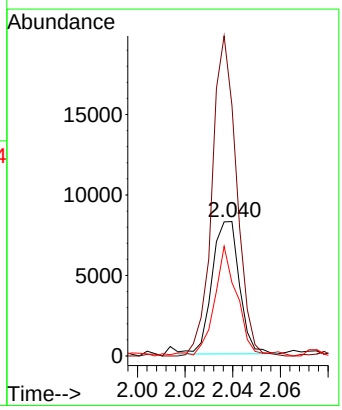


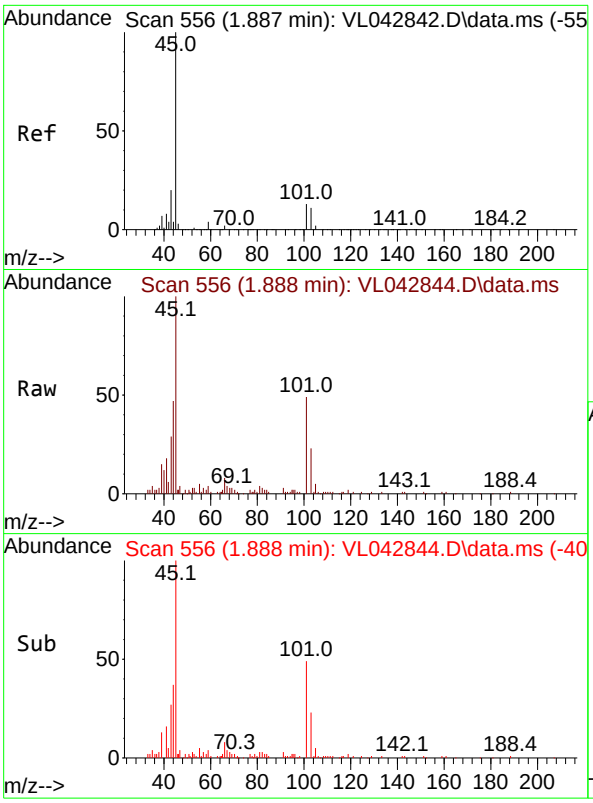


#18
1,1-Dichloroethene
Concen: 1.006 ppbv
RT: 2.040 min Scan# 603
Delta R.T. 0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

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



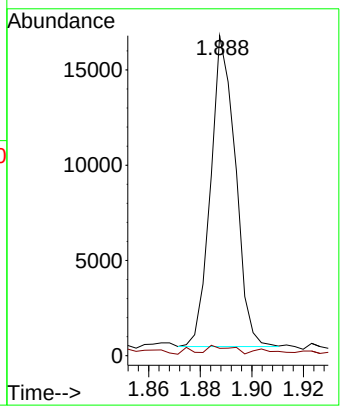


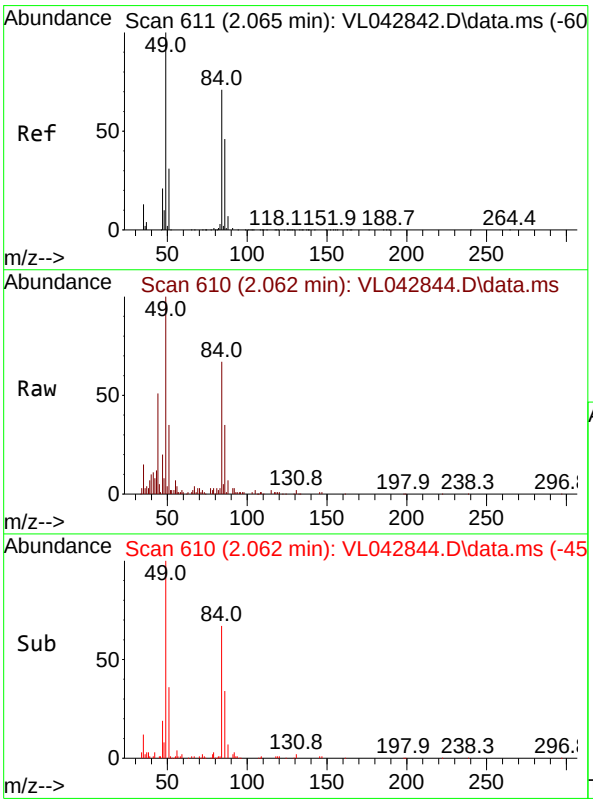
#19
Isopropyl Alcohol
Concen: 1.073 ppbv
RT: 1.888 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 45 Resp: 10893

Ion	Ratio	Lower	Upper
45	100		
58	2.9	32.7	49.1#

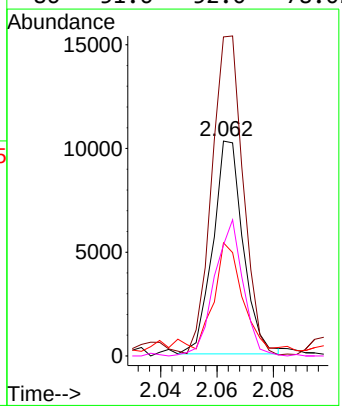


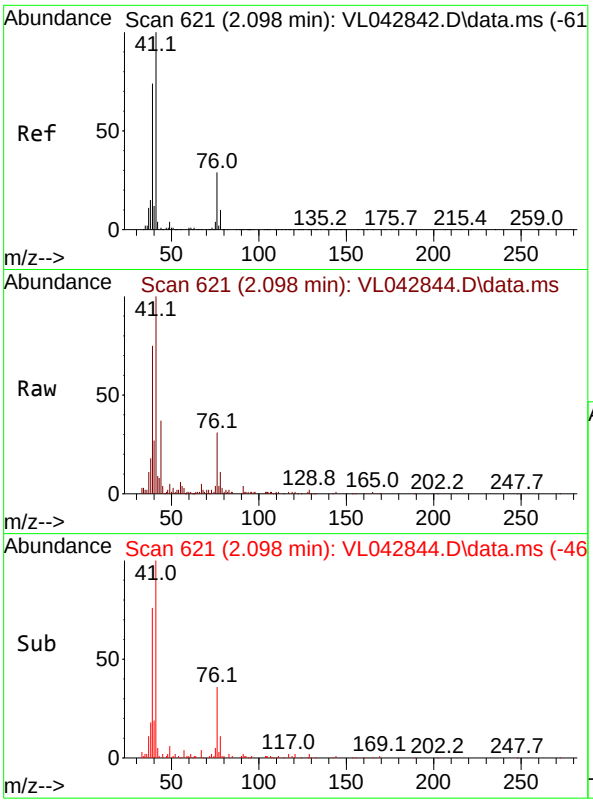


#20
Methylene Chloride
Concen: 1.076 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

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#



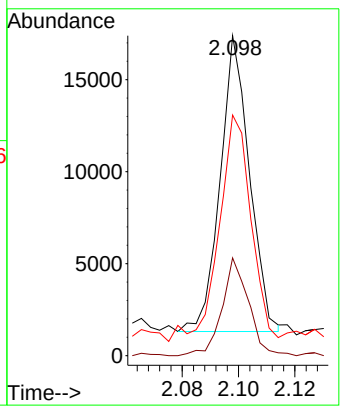


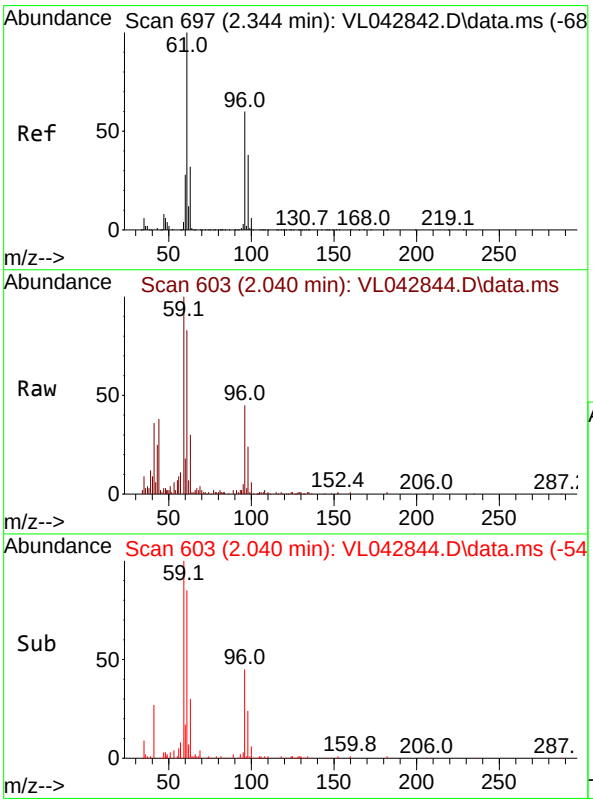
#21
Allyl Chloride
Concen: 0.966 ppbv
RT: 2.098 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 41 Resp: 11598

Ion	Ratio	Lower	Upper
41	100		
76	30.9	23.9	35.9
39	86.2	57.8	86.6

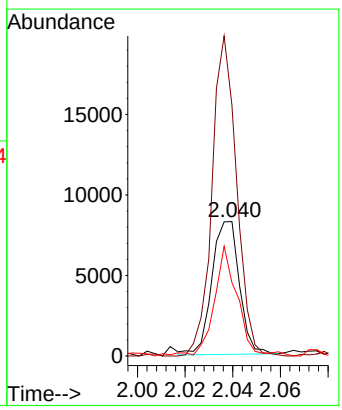


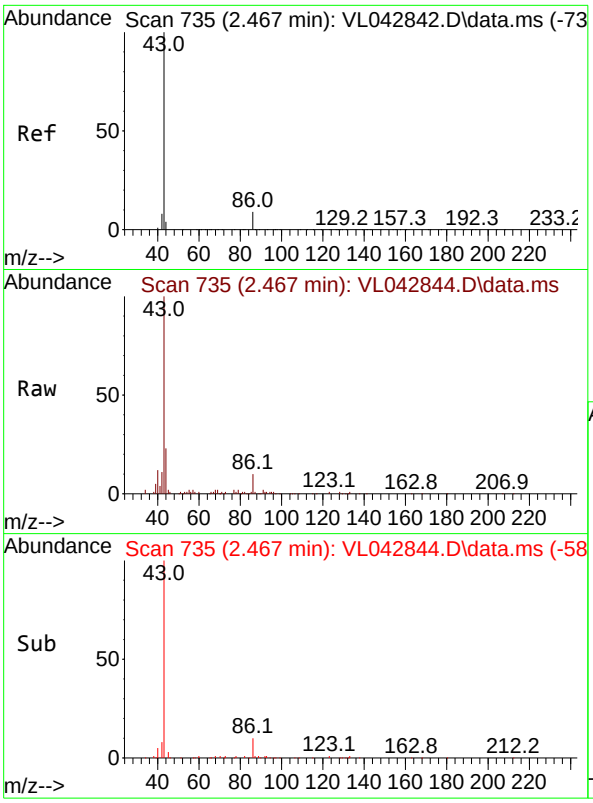


#22
trans-1,2-Dichloroethene
Concen: 0.910 ppbv
RT: 2.040 min Scan# 603
Delta R.T. -0.304 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

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



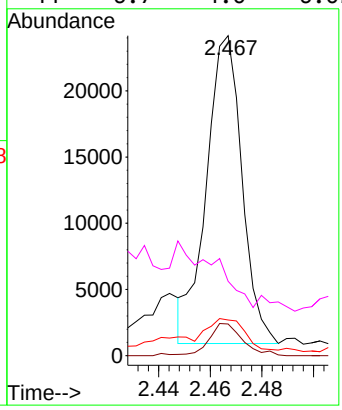


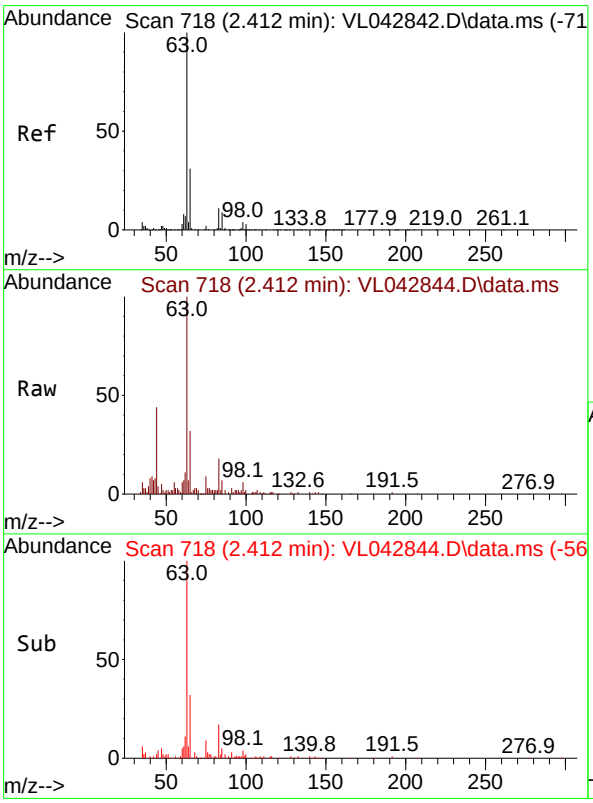
#23
Vinyl Acetate
Concen: 0.996 ppbv
RT: 2.467 min Scan# 7
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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#

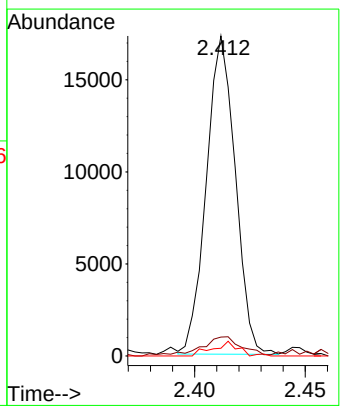


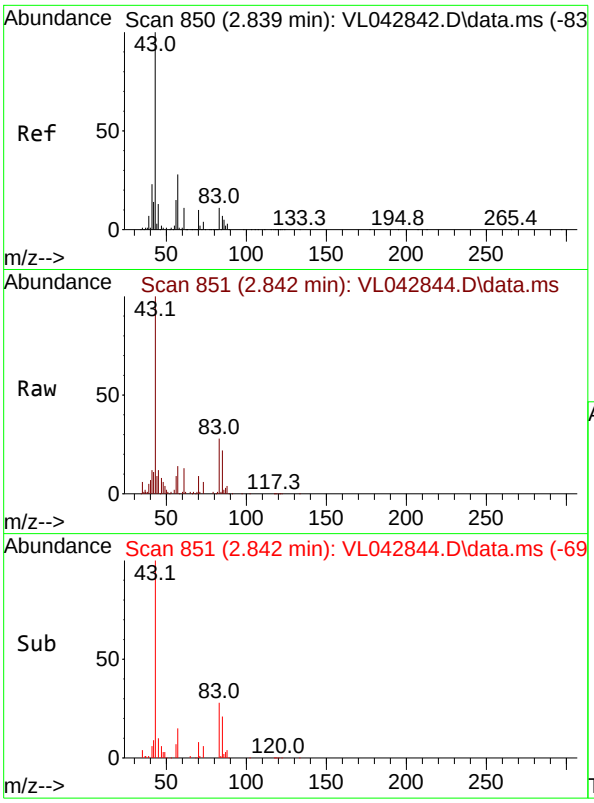


#24
1,1-Dichloroethane
Concen: 1.045 ppbv
RT: 2.412 min Scan# 718
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

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



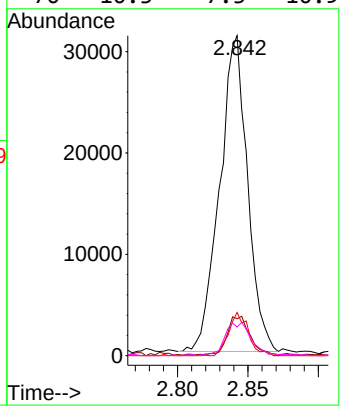


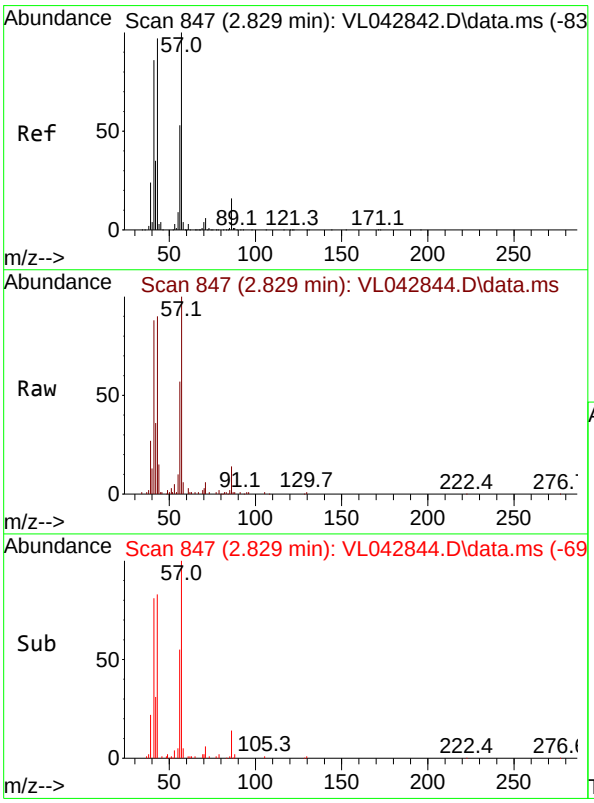
#25
Ethyl Acetate
Concen: 1.045 ppbv
RT: 2.842 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

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

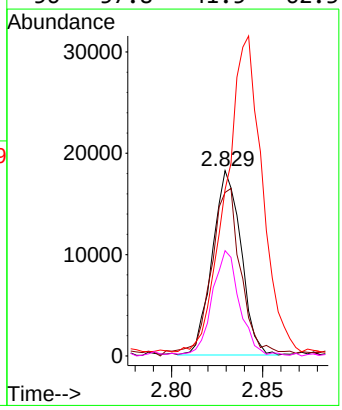


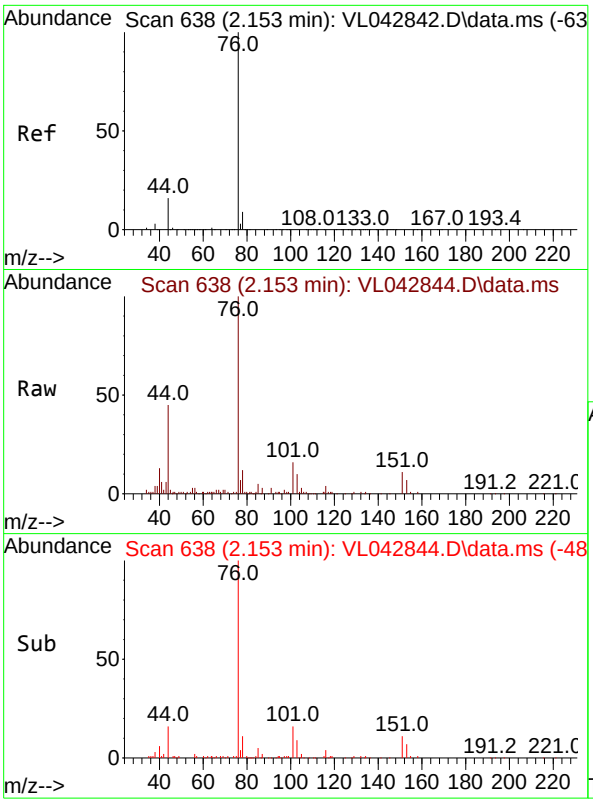


#26
Hexane
Concen: 1.050 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

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



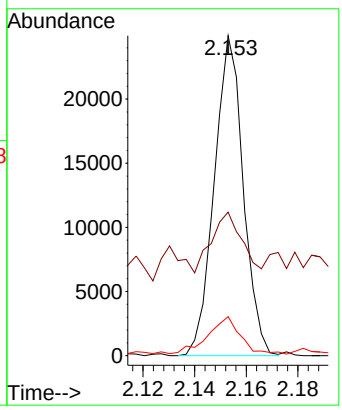


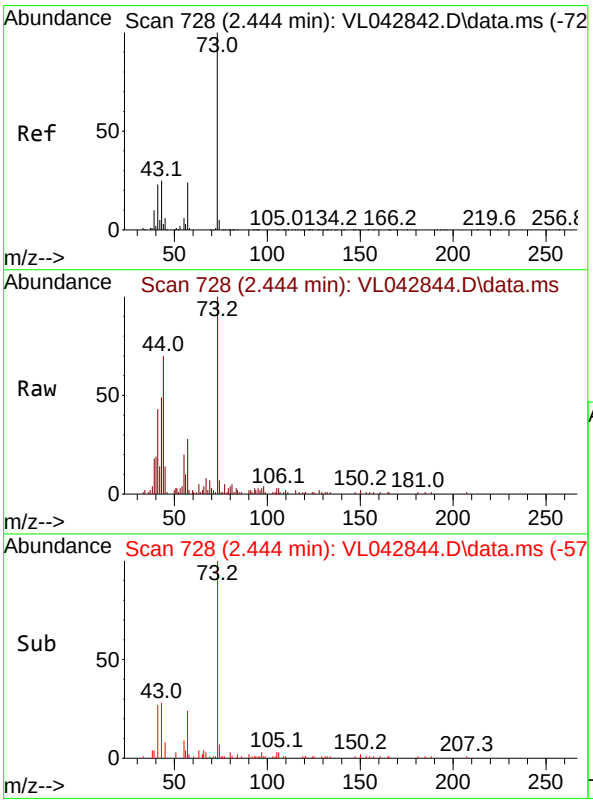
#27
Carbon Disulfide
Concen: 1.052 ppbv
RT: 2.153 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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#

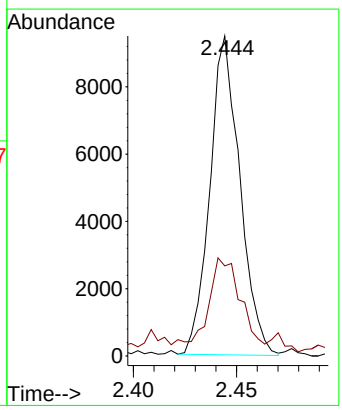


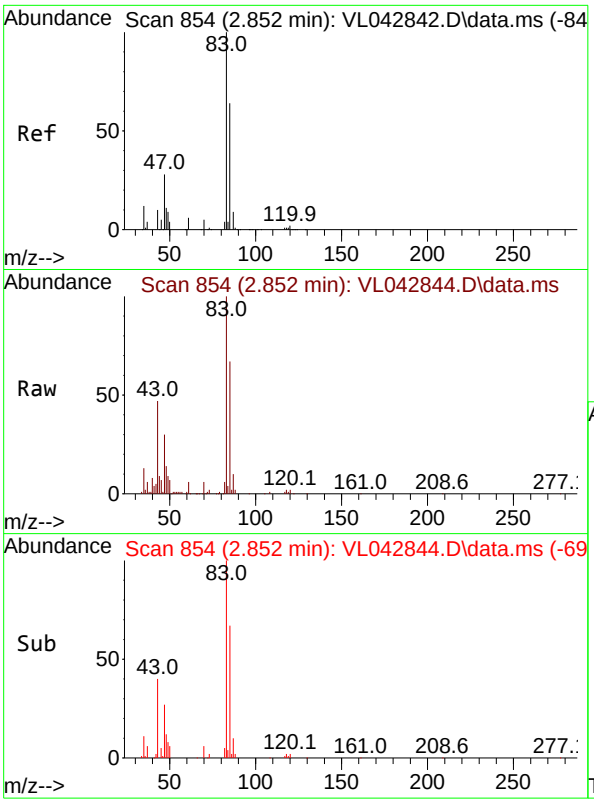


#28
Methyl tert-Butyl Ether
Concen: 0.991 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 73 Resp: 9600

Ion	Ratio	Lower	Upper
73	100		
57	33.4	21.6	32.4#



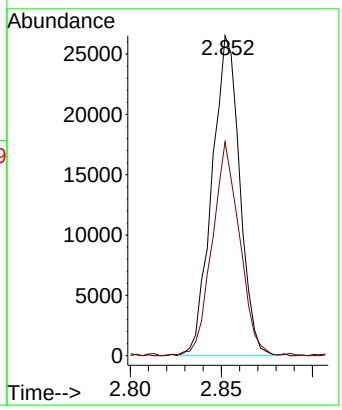


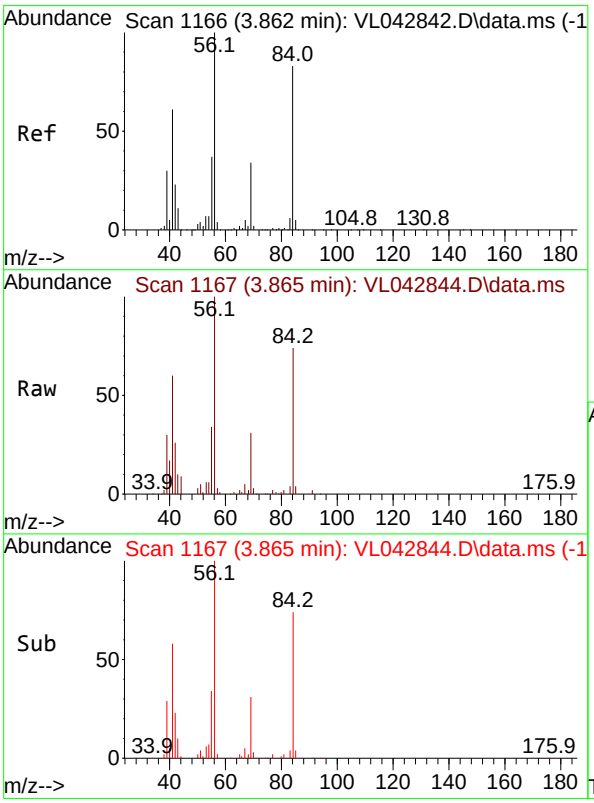
#29
Chloroform
Concen: 1.034 ppbv
RT: 2.852 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 83 Resp: 28055

Ion	Ratio	Lower	Upper
83	100		
85	66.6	51.1	76.7

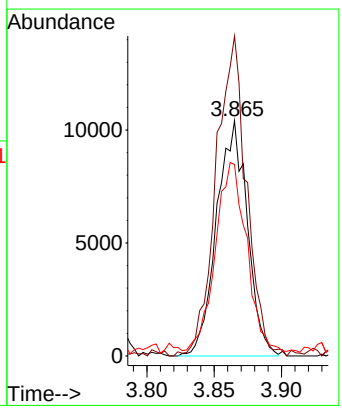


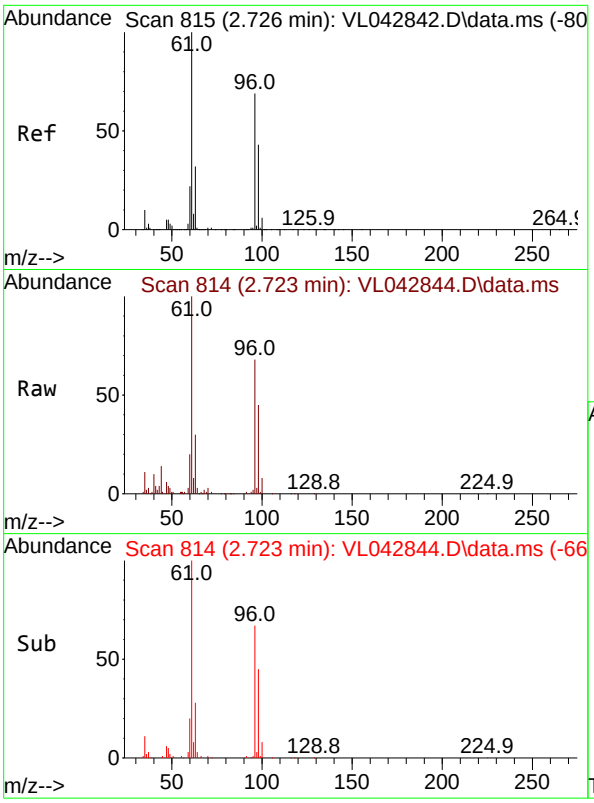


#30
Cyclohexane
Concen: 0.990 ppbv
RT: 3.865 min Scan# 1167
Delta R.T. 0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

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



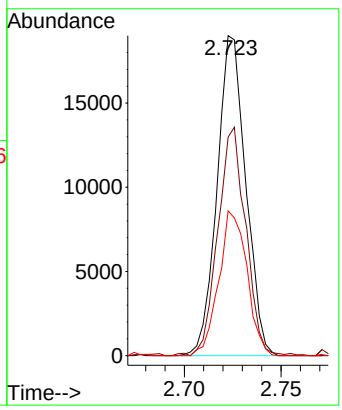


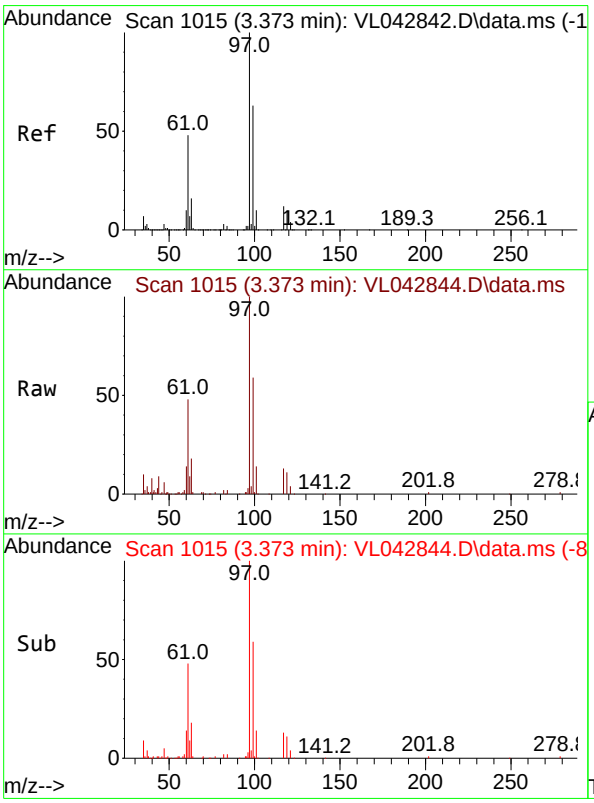
#31
cis-1,2-Dichloroethene
Concen: 1.031 ppbv
RT: 2.723 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 61 Resp: 19591

Ion	Ratio	Lower	Upper
61	100		
96	67.7	55.0	82.6
98	45.2	34.3	51.5

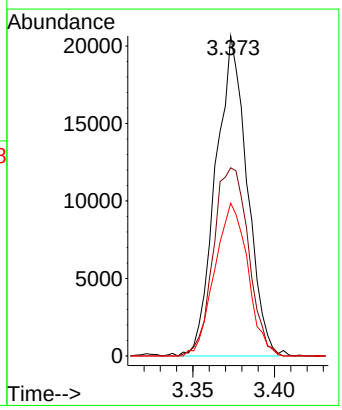


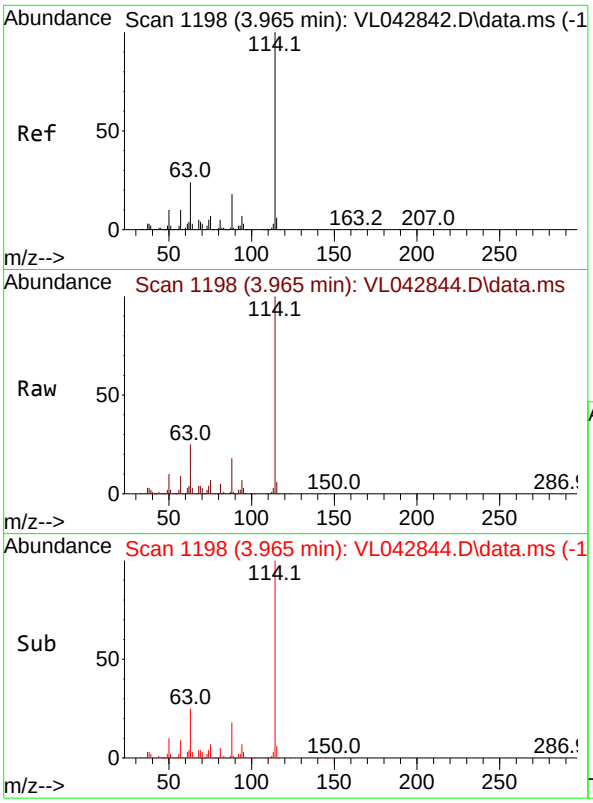


#32
1,1,1-Trichloroethane
Concen: 0.961 ppbv
RT: 3.373 min Scan# 1015
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

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



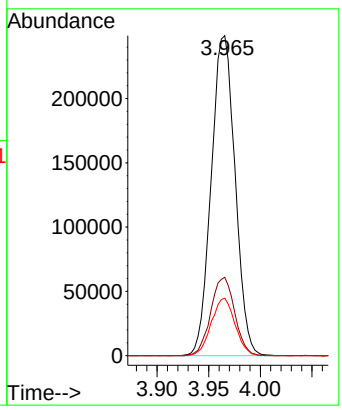


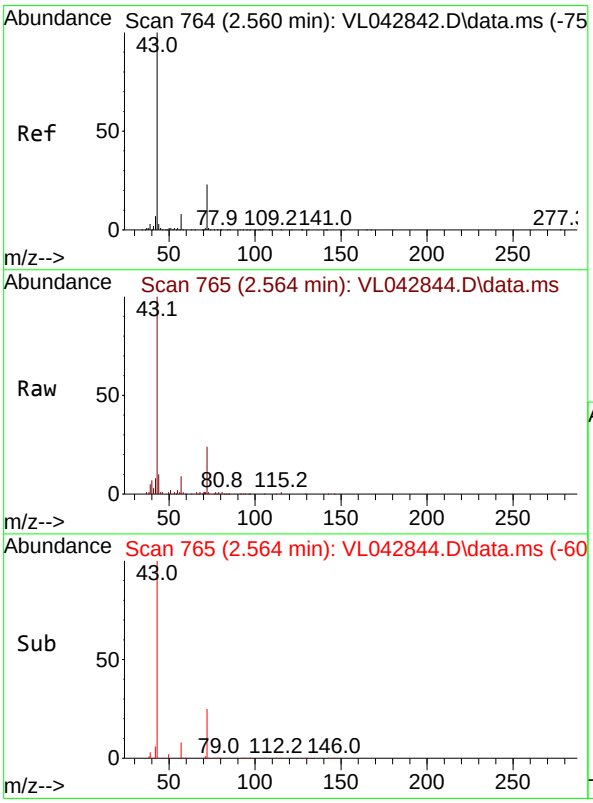
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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

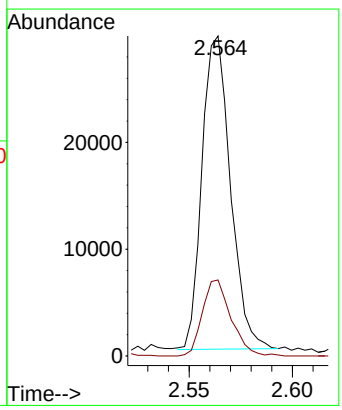


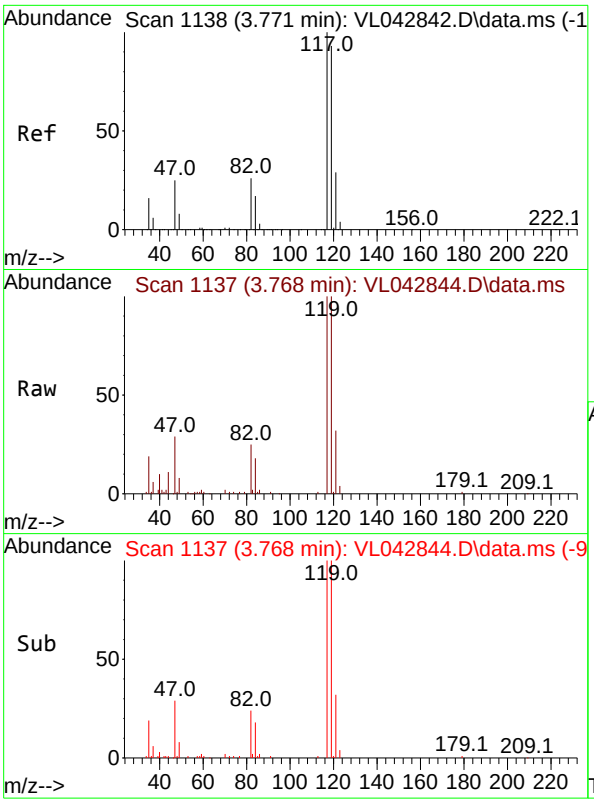


#34
2-Butanone
Concen: 1.040 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 43 Resp: 28105

Ion	Ratio	Lower	Upper
43	100		
72	24.4	18.6	28.0



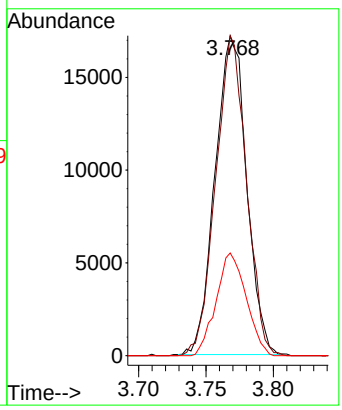


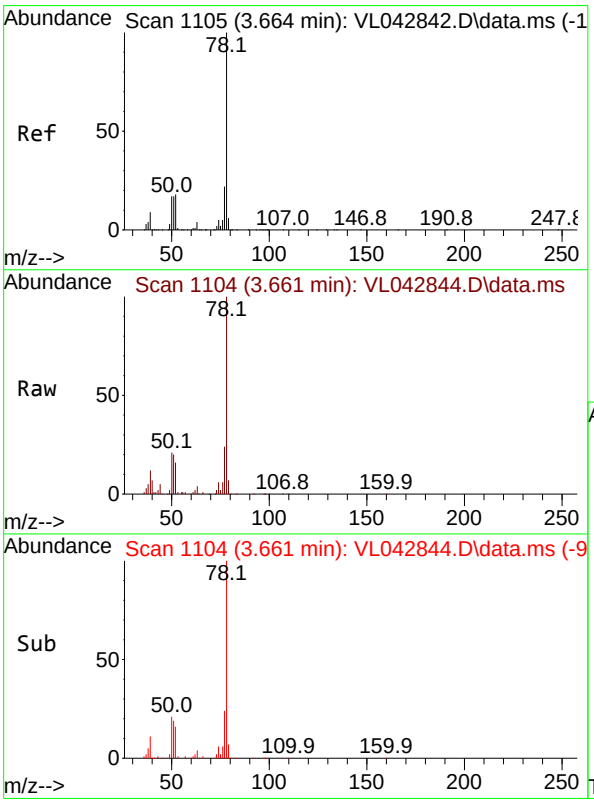
#35
Carbon Tetrachloride
Concen: 1.015 ppbv
RT: 3.768 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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

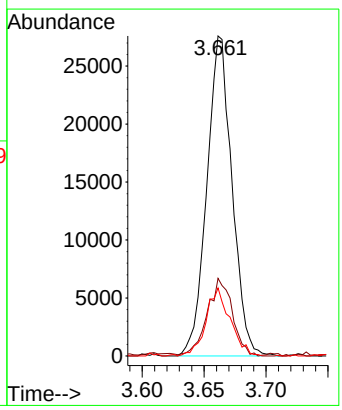


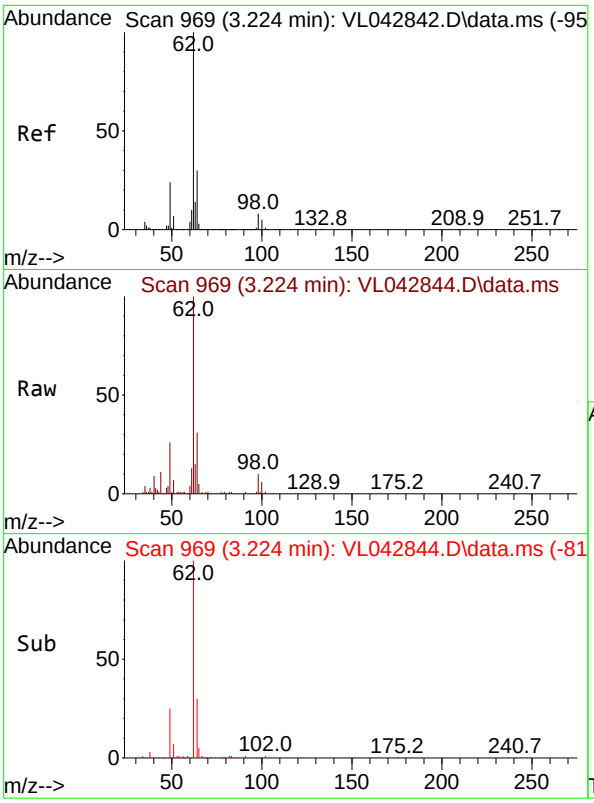


#36
Benzene
Concen: 1.021 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

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#



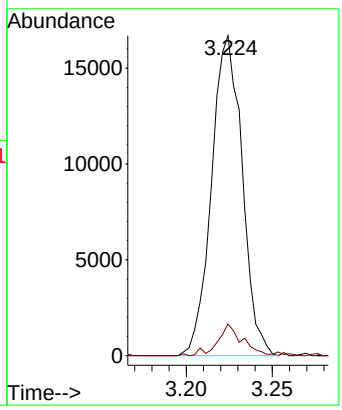


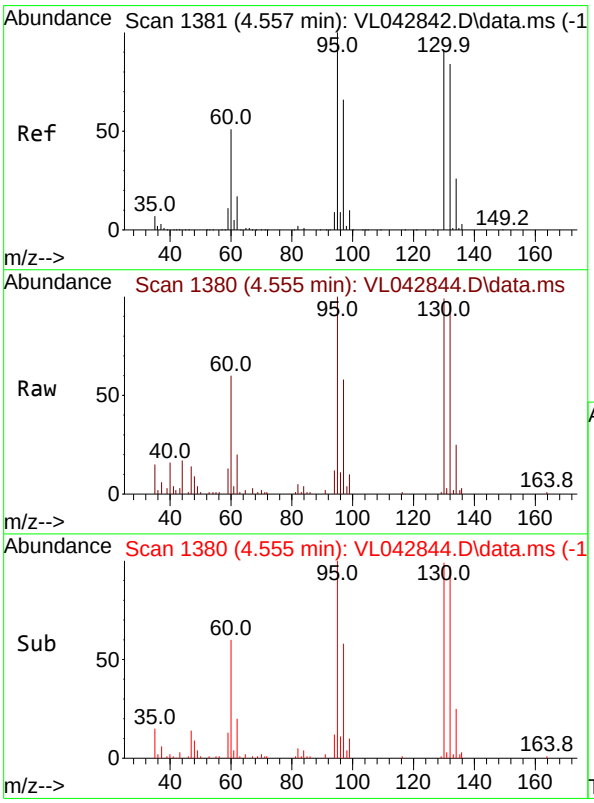
#37
1,2-Dichloroethane
Concen: 1.031 ppbv
RT: 3.224 min Scan# 9
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 62 Resp: 20645

Ion	Ratio	Lower	Upper
62	100		
98	8.4	5.9	8.9

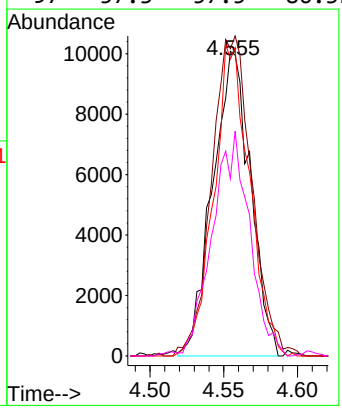


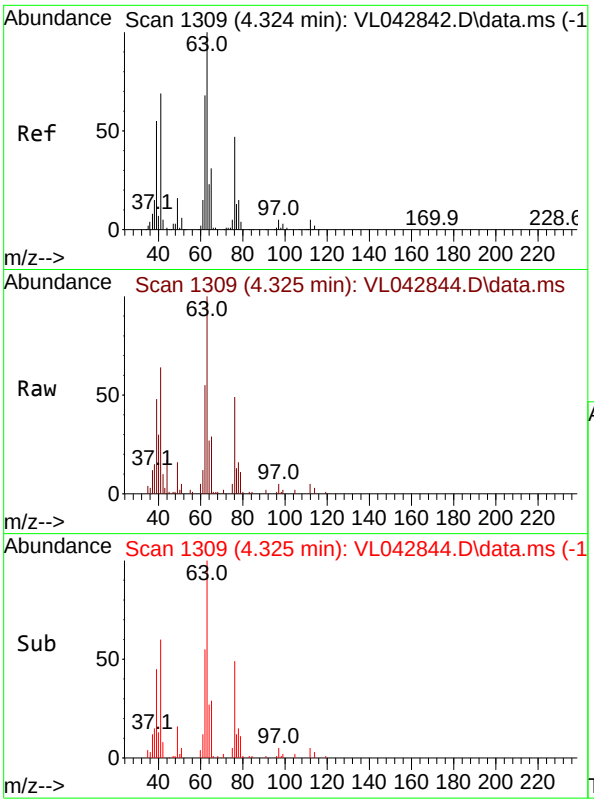


#38
Trichloroethene
Concen: 1.024 ppbv
RT: 4.555 min Scan# 1380
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

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#



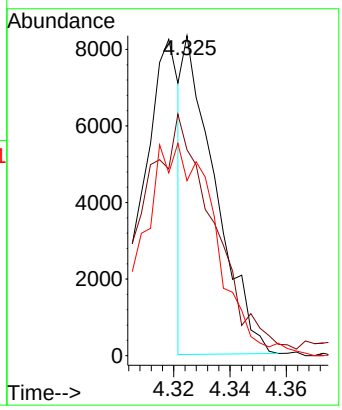


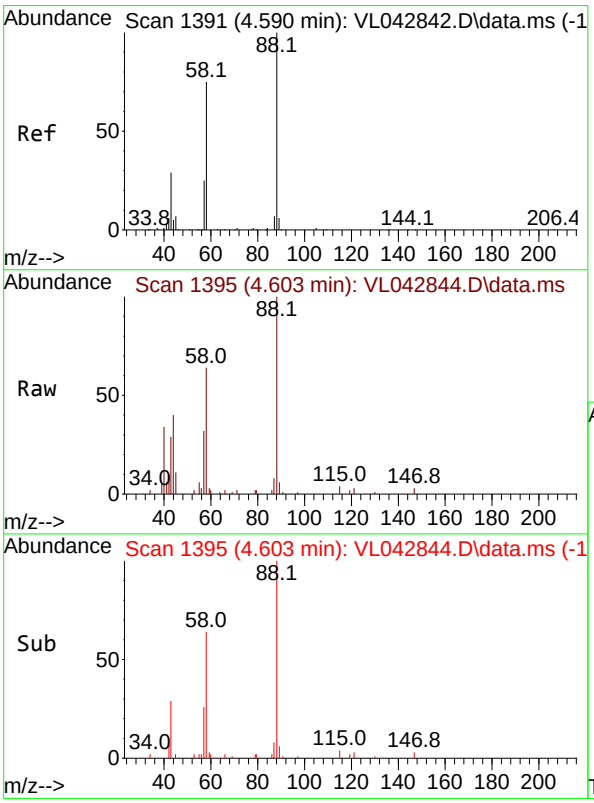
#39
1,2-Dichloropropane
Concen: 0.469 ppbv
RT: 4.325 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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#

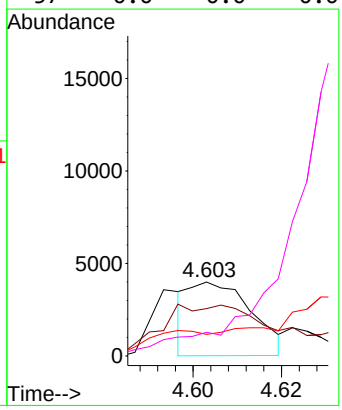


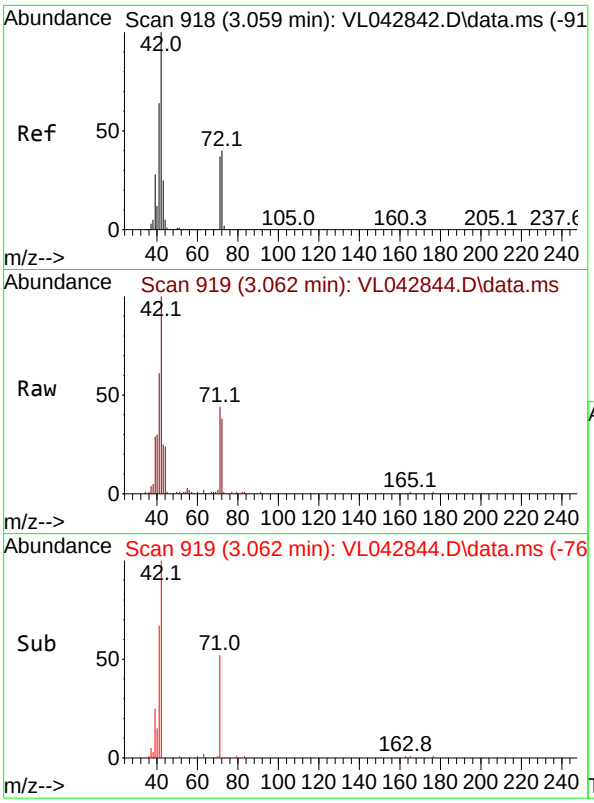


#40
1,4-Dioxane
Concen: 0.599 ppbv
RT: 4.603 min Scan# 1395
Delta R.T. 0.013 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

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



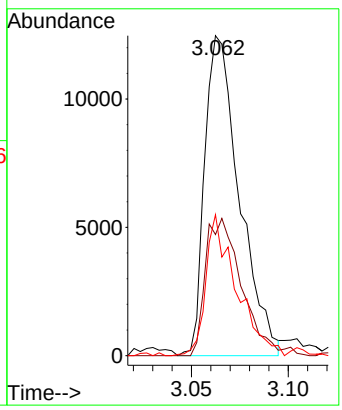


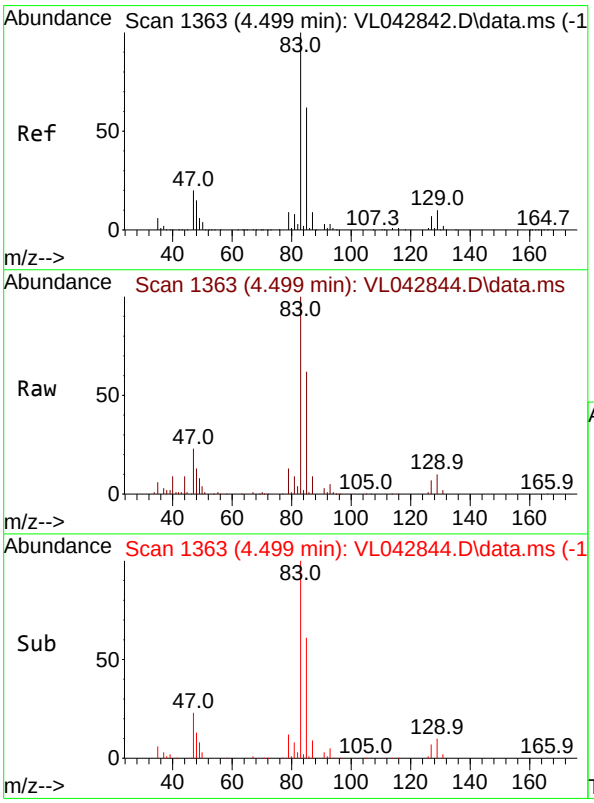
#41
Tetrahydrofuran
Concen: 1.032 ppbv
RT: 3.062 min Scan# 9
Delta R.T. 0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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

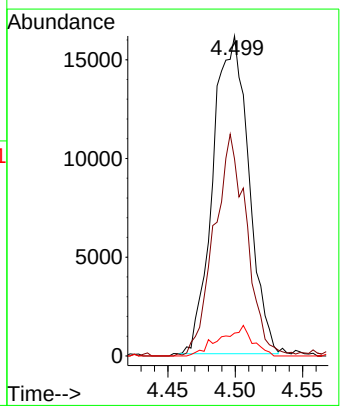


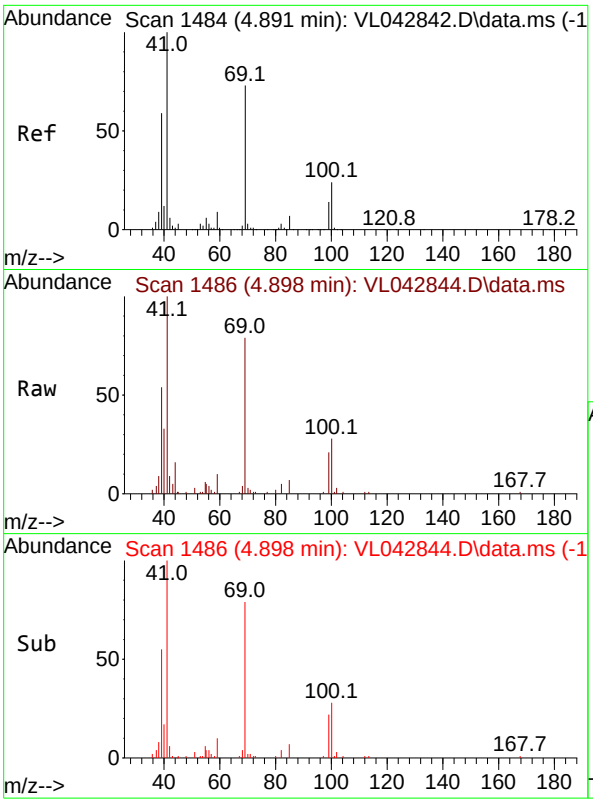


#42
Bromodichloromethane
Concen: 0.995 ppbv
RT: 4.499 min Scan# 1363
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

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



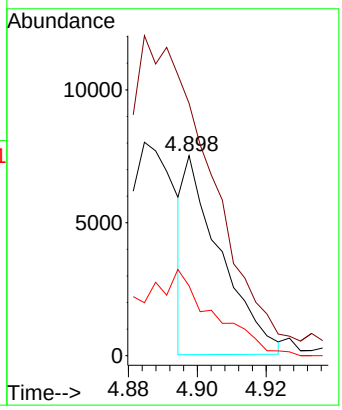


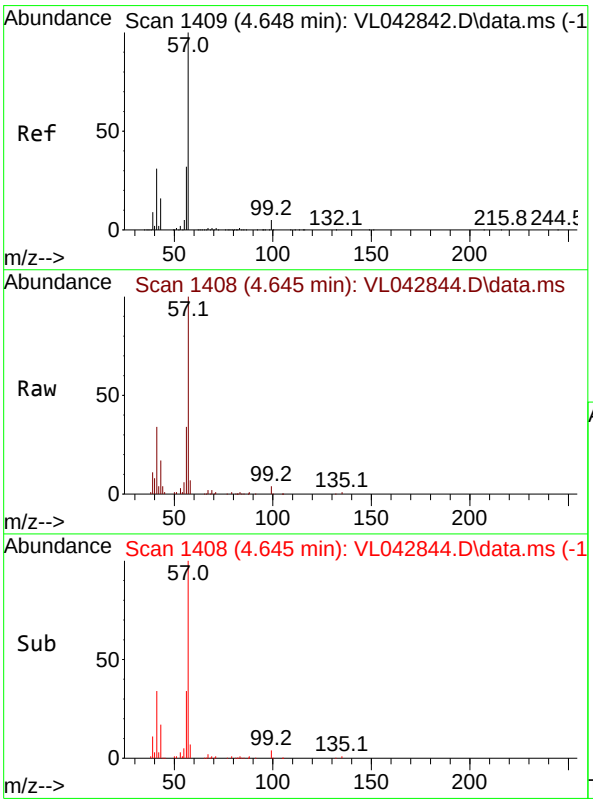
#43
Methyl Methacrylate
Concen: 0.349 ppbv
RT: 4.898 min Scan# 14
Delta R.T. 0.007 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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#

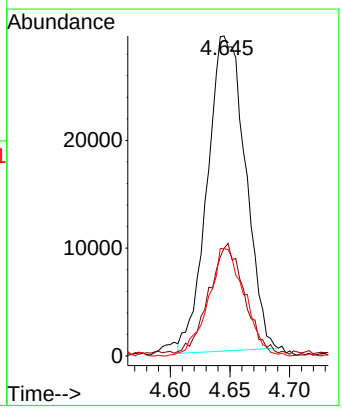


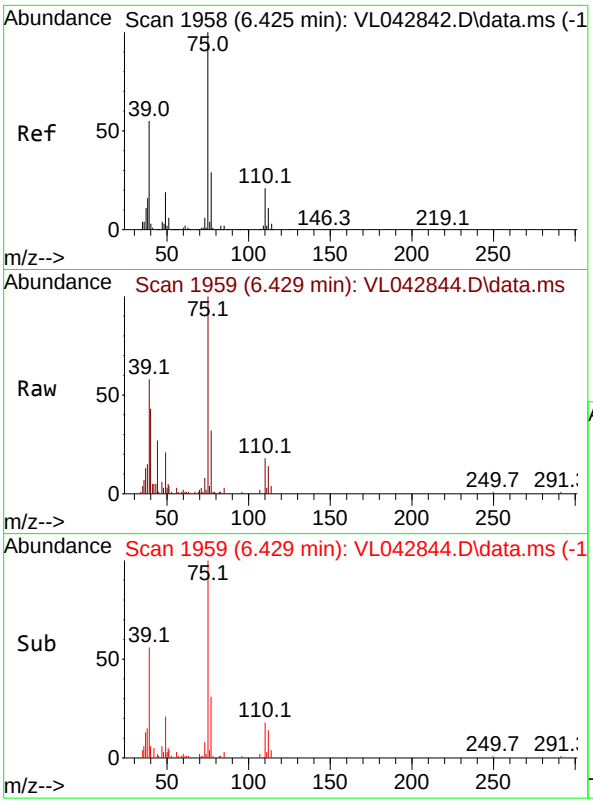


#44
2,2,4-Trimethylpentane
Concen: 1.009 ppbv
RT: 4.645 min Scan# 1408
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

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



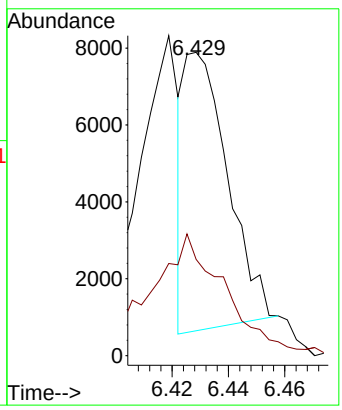


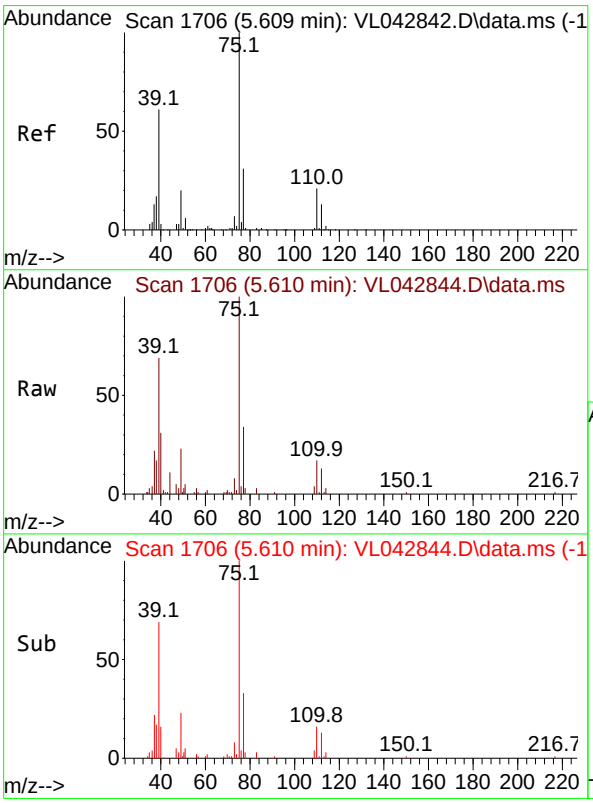
#45
t-1,3-Dichloropropene
Concen: 0.434 ppbv
RT: 6.429 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 75 Resp: 7736

Ion	Ratio	Lower	Upper
75	100		
77	31.8	23.8	35.6

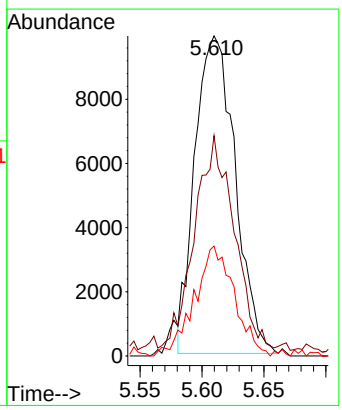


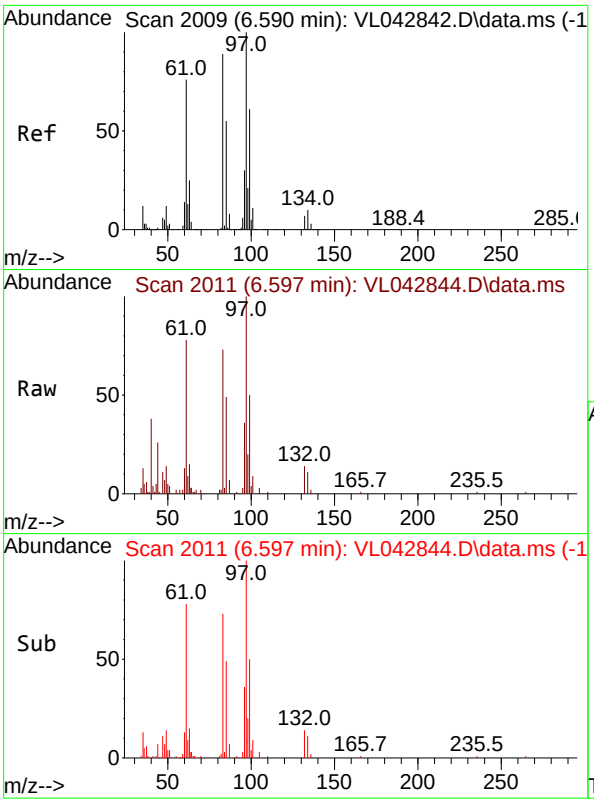


#46
cis-1,3-Dichloropropene
Concen: 0.999 ppbv
RT: 5.610 min Scan# 1706
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

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



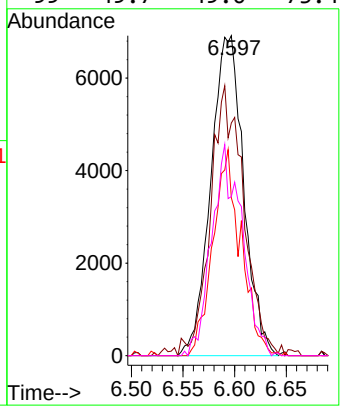


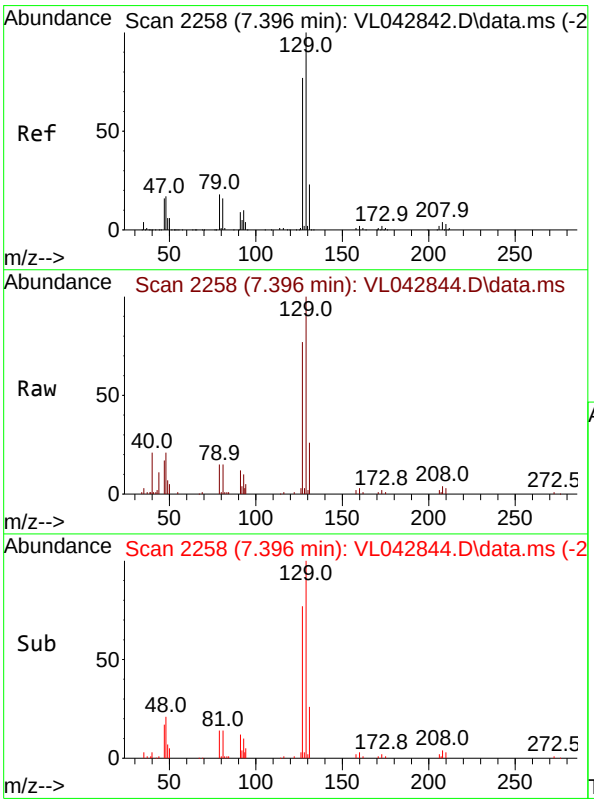
#47
1,1,2-Trichloroethane
Concen: 1.032 ppbv
RT: 6.597 min Scan# 2(
Delta R.T. 0.007 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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

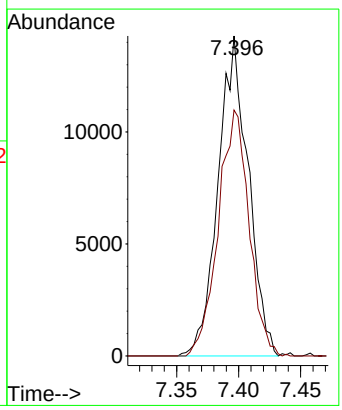


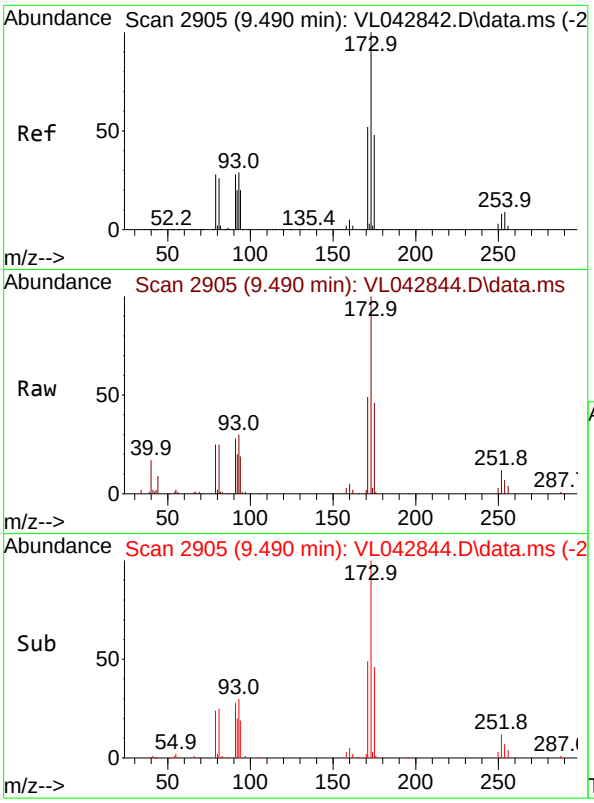


#48
Dibromochloromethane
Concen: 1.009 ppbv
RT: 7.396 min Scan# 2258
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion:129 Resp: 24214

Ion	Ratio	Lower	Upper
129	100		
127	78.2	39.4	118.2



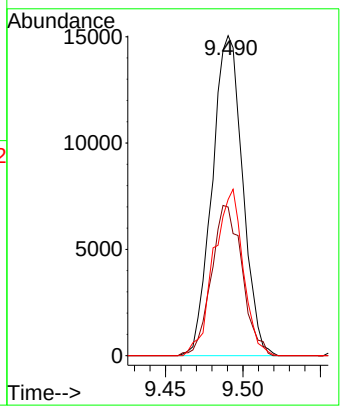


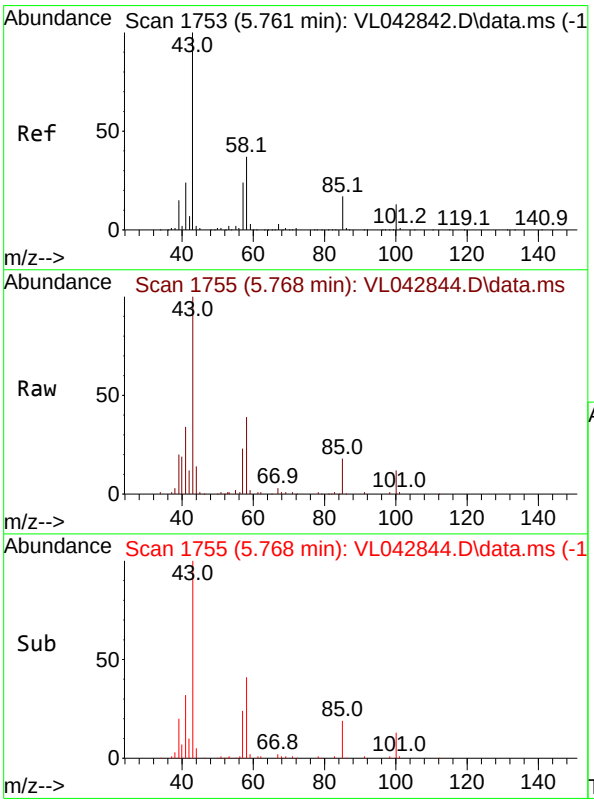
#49
Bromoform
Concen: 1.040 ppbv
RT: 9.490 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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

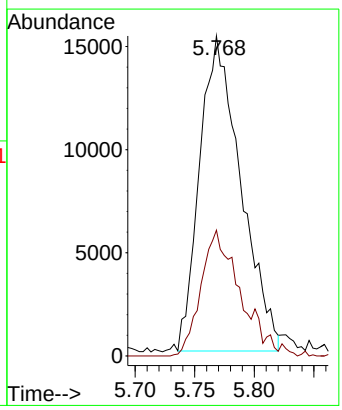


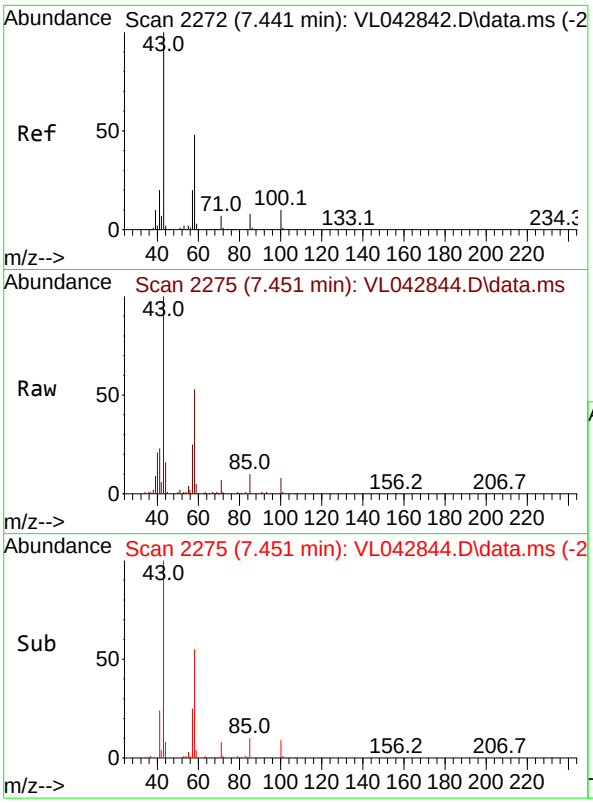


#50
4-Methyl-2-Pentanone
Concen: 1.001 ppbv
RT: 5.768 min Scan# 1755
Delta R.T. 0.007 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 43 Resp: 36710

Ion	Ratio	Lower	Upper
43	100		
58	38.3	29.8	44.8



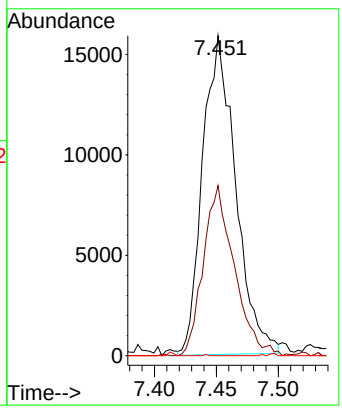


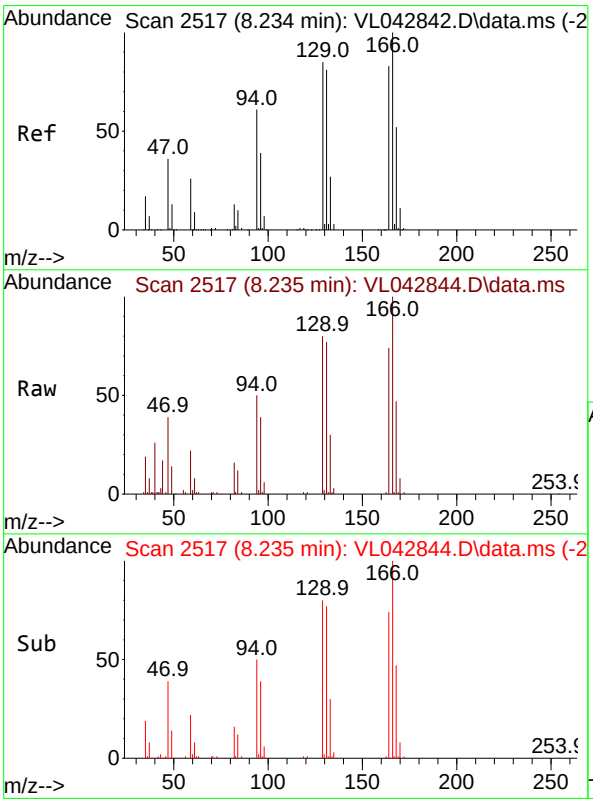
#51
2-Hexanone
Concen: 1.026 ppbv
RT: 7.451 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 29487

Ion	Ratio	Lower	Upper
43	100		
58	50.6	41.0	61.6
98	0.2	0.1	0.1#

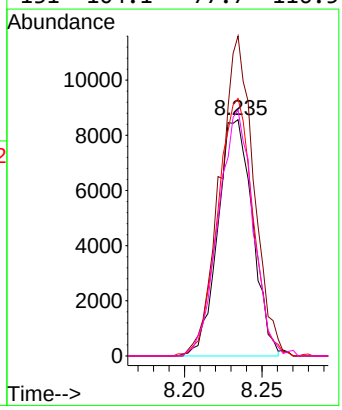


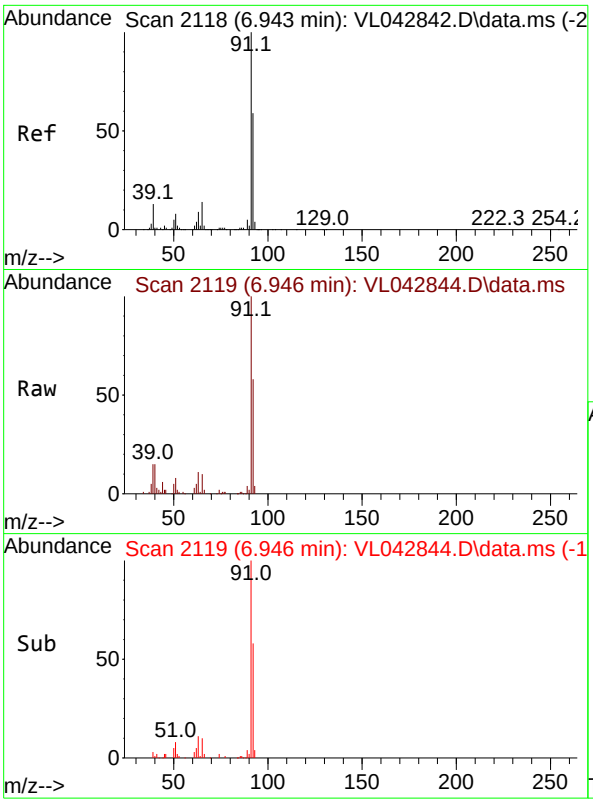


#52
Tetrachloroethene
Concen: 0.960 ppbv
RT: 8.235 min Scan# 2517
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

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



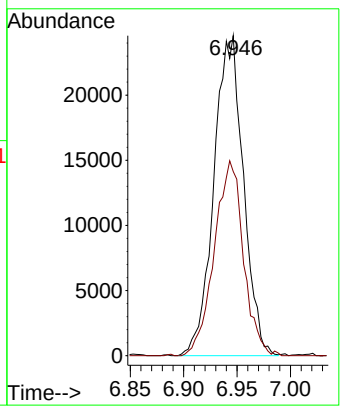


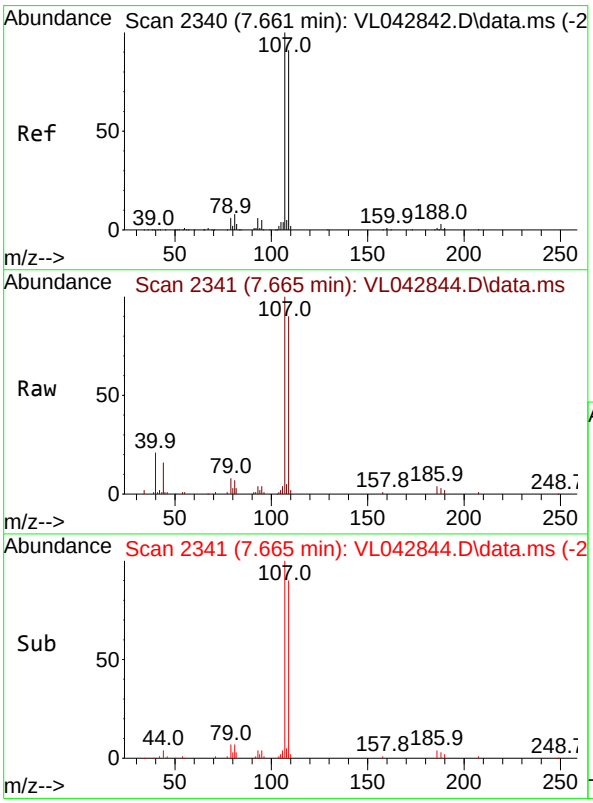
#53
Toluene
Concen: 1.036 ppbv
RT: 6.946 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 47256

Ion	Ratio	Lower	Upper
91	100		
92	60.1	47.8	71.6

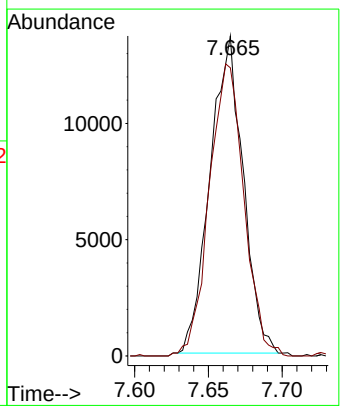


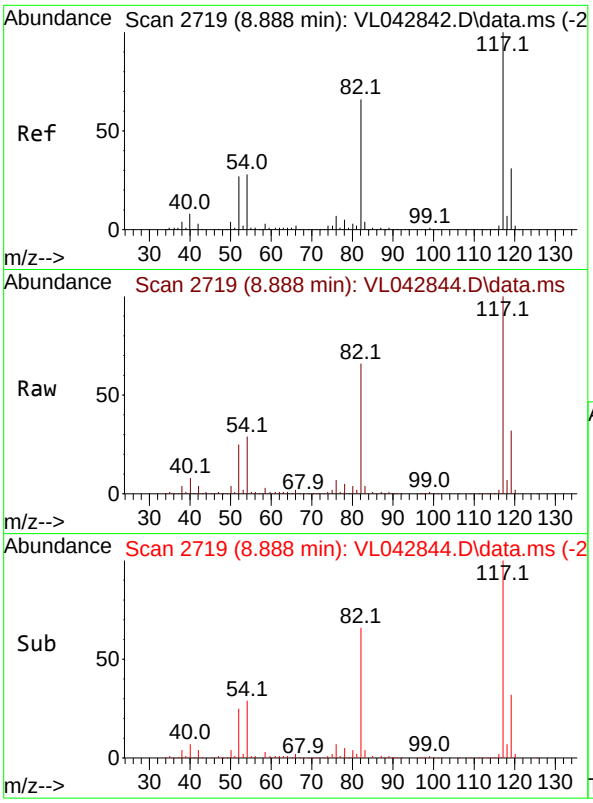


#54
1,2-Dibromoethane
Concen: 0.982 ppbv
RT: 7.665 min Scan# 2341
Delta R.T. 0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion:107 Resp: 21280

Ion	Ratio	Lower	Upper
107	100		
109	89.9	72.5	108.7



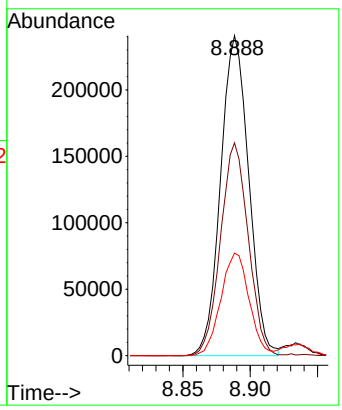


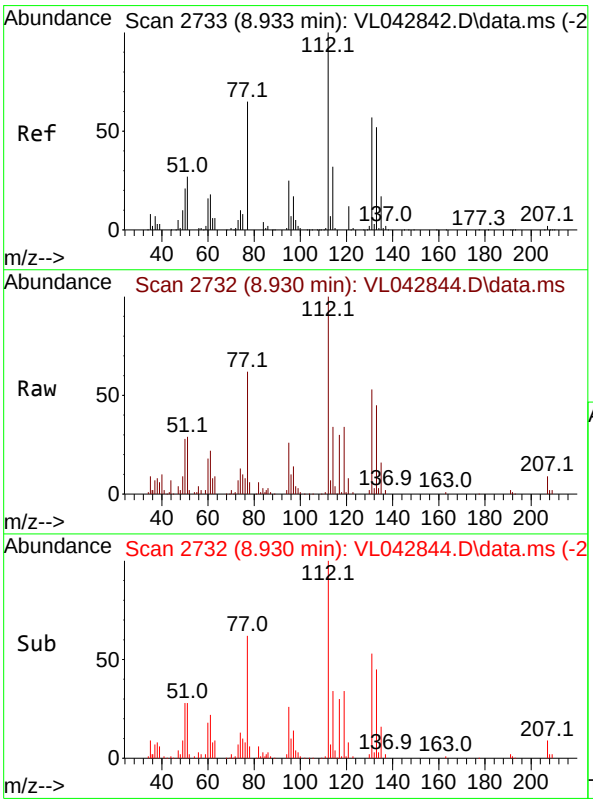
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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

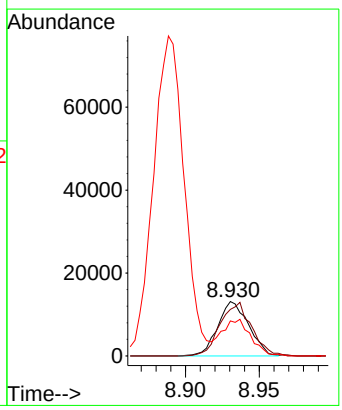


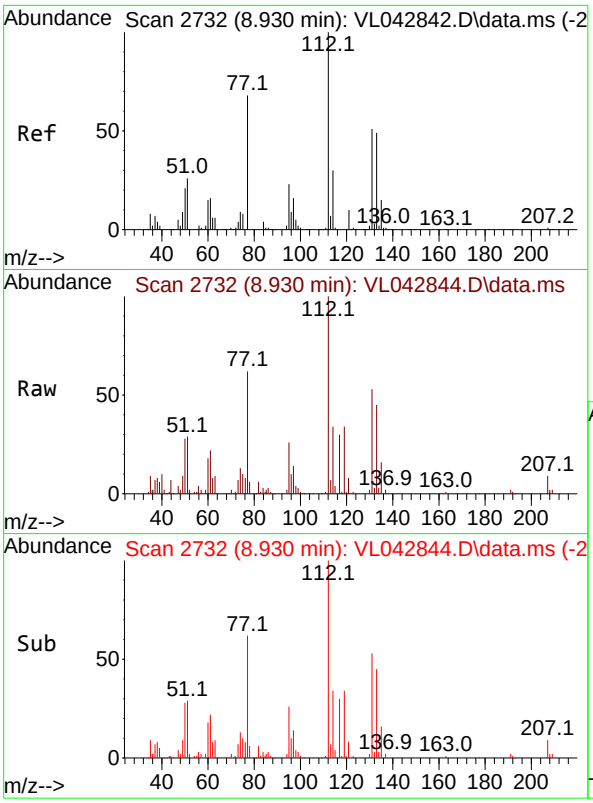


#56
1,1,1,2-Tetrachloroethane
Concen: 1.061 ppbv
RT: 8.930 min Scan# 2732
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

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



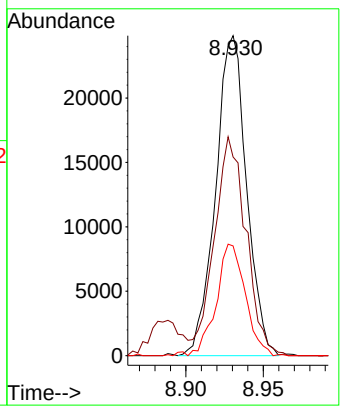


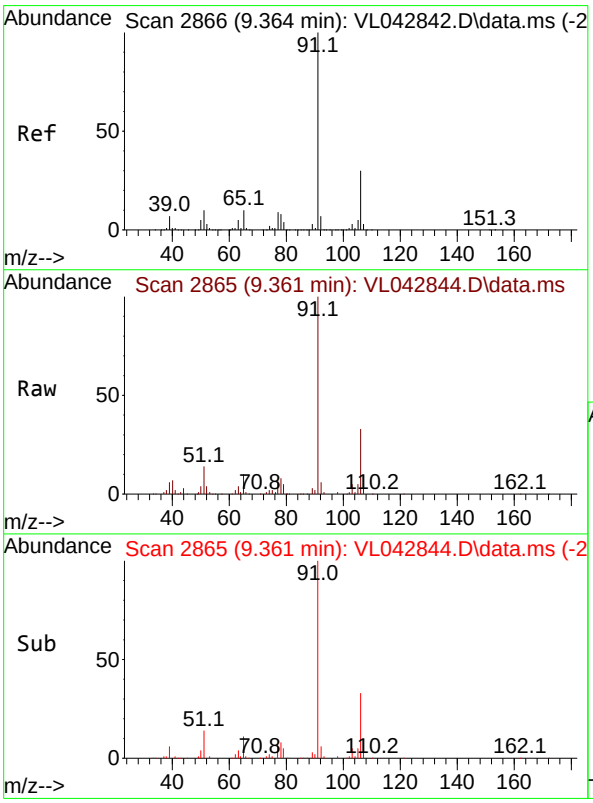
#57
Chlorobenzene
Concen: 1.041 ppbv
RT: 8.930 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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#

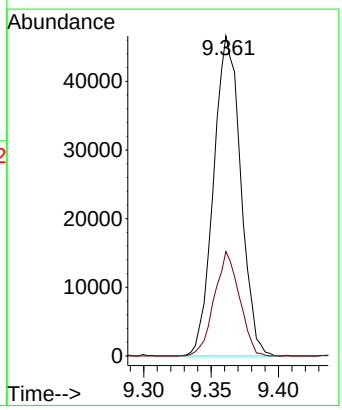


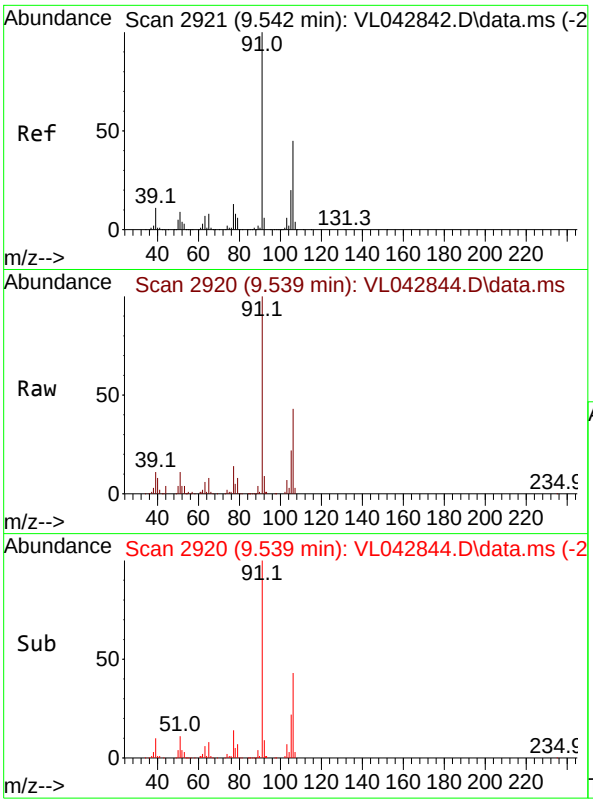


#58
Ethyl Benzene
Concen: 1.057 ppbv
RT: 9.361 min Scan# 2865
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 91 Resp: 65223

Ion	Ratio	Lower	Upper
91	100		
106	32.7	23.9	35.9



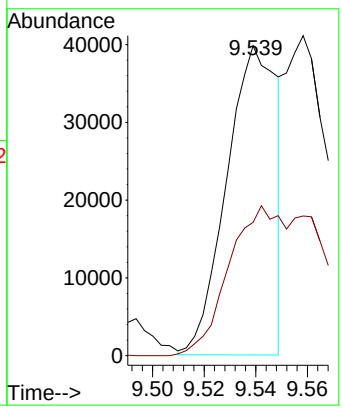


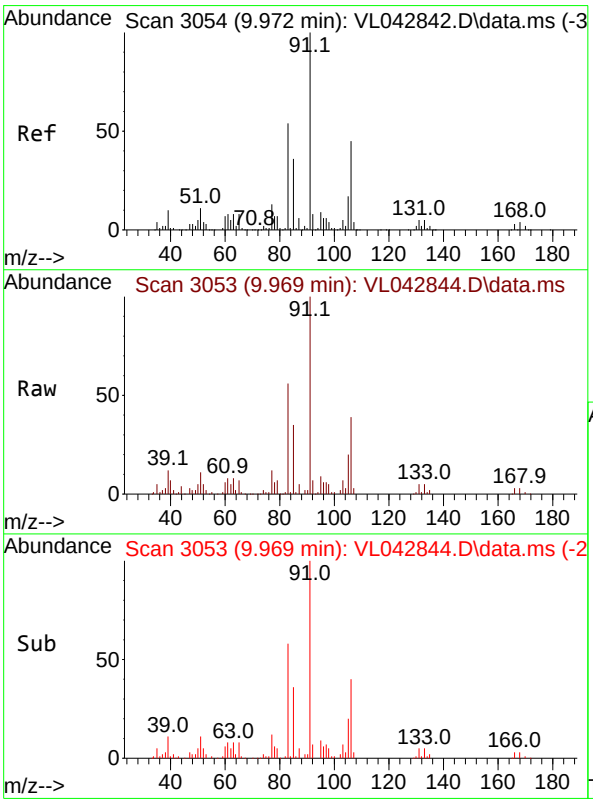
#59
m/p-Xylene
Concen: 1.108 ppbv
RT: 9.539 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 53658

Ion	Ratio	Lower	Upper
91	100		
106	88.3	0.0	0.0#

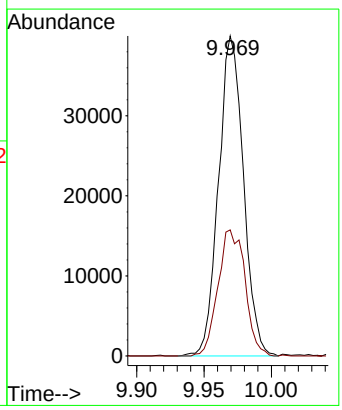


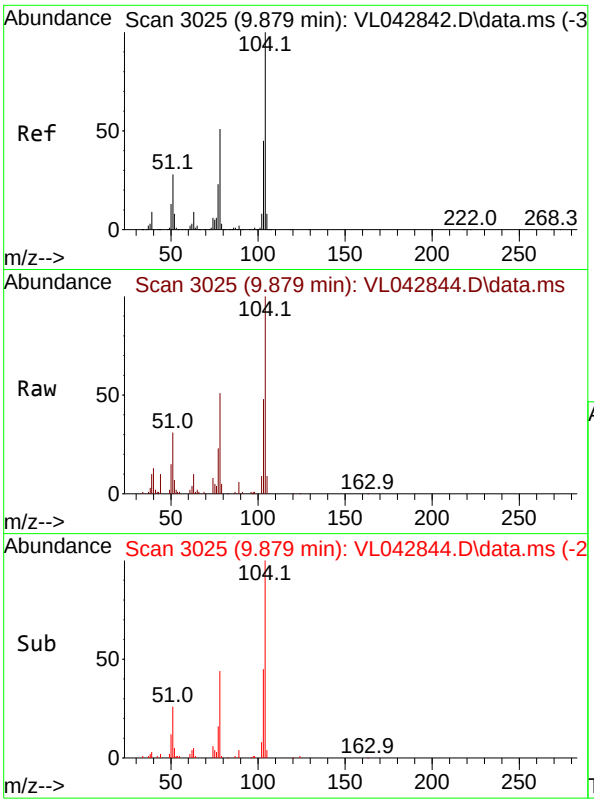


#60
o-Xylene
Concen: 1.058 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion: 91 Resp: 51445

Ion	Ratio	Lower	Upper
91	100		
106	42.8	21.8	65.4



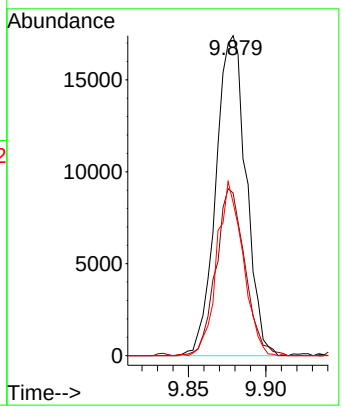


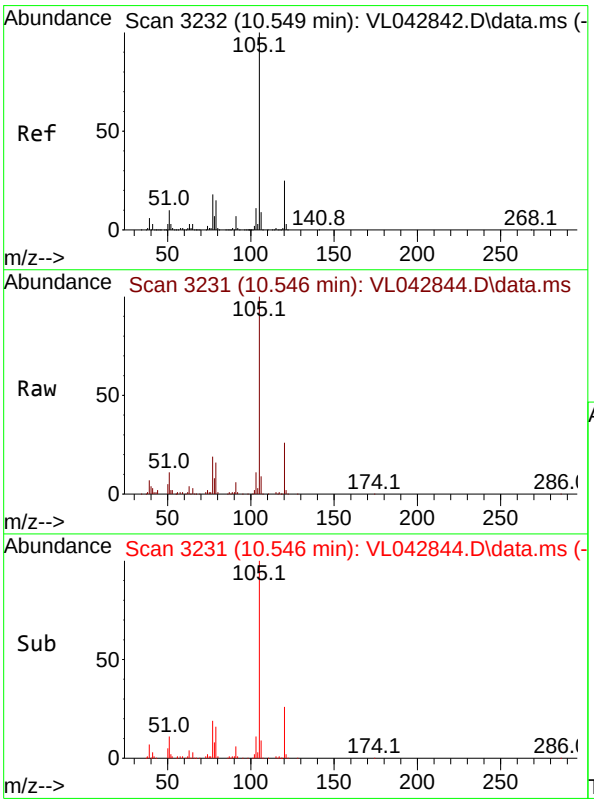
#61
Styrene
Concen: 1.038 ppbv
RT: 9.879 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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

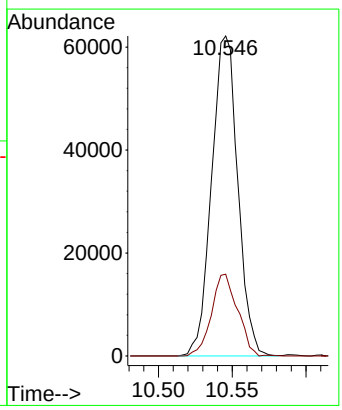


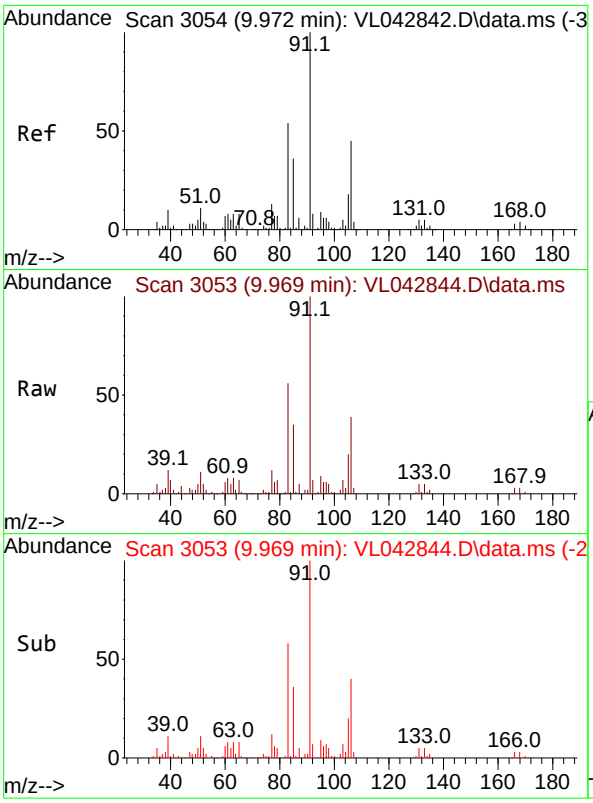


#62
Isopropylbenzene
Concen: 1.079 ppbv
RT: 10.546 min Scan# 3231
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion:105 Resp: 76708

Ion	Ratio	Lower	Upper
105	100		
120	25.4	20.6	30.8



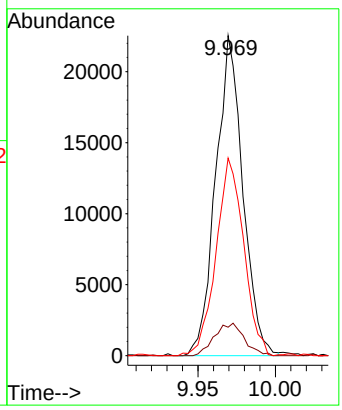


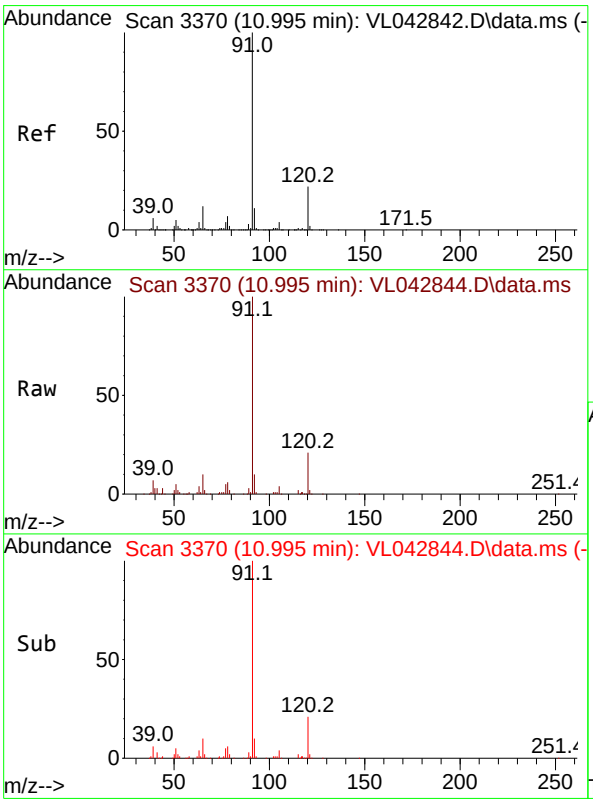
#63
1,1,2,2-Tetrachloroethane
Concen: 1.032 ppbv
RT: 9.969 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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

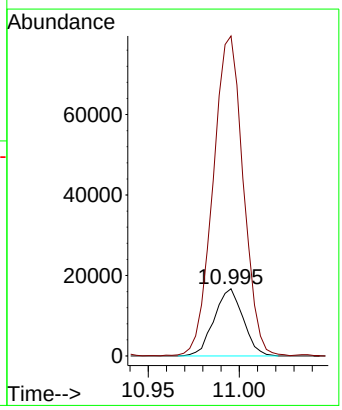


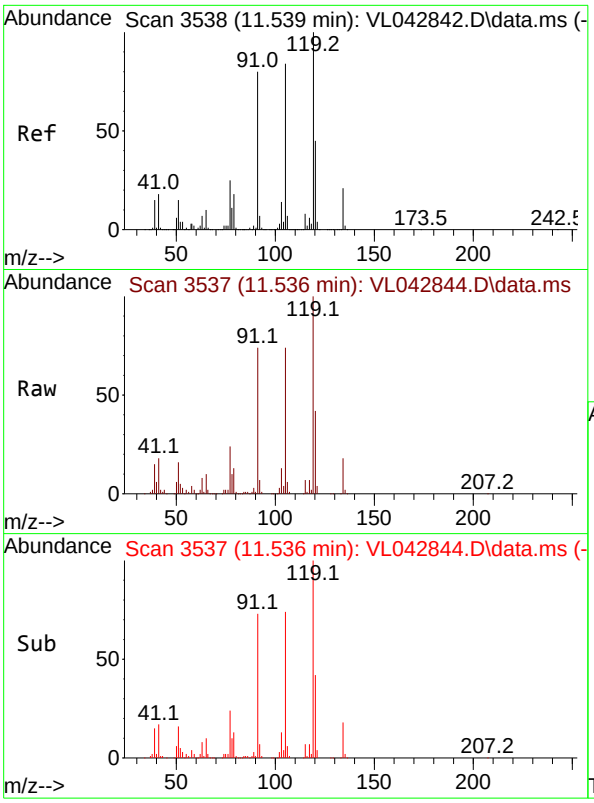


#64
n-propylbenzene
Concen: 1.018 ppbv
RT: 10.995 min Scan# 3370
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Tgt Ion:120 Resp: 18462

Ion	Ratio	Lower	Upper
120	100		
91	496.0	375.8	563.6



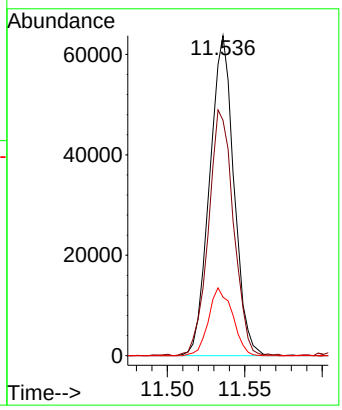


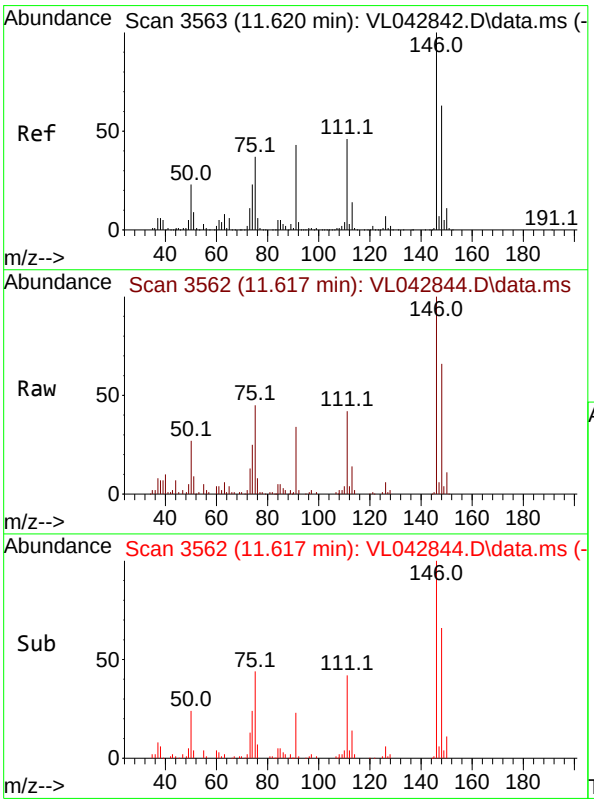
#65
tert-Butylbenzene
Concen: 1.111 ppbv
RT: 11.536 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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

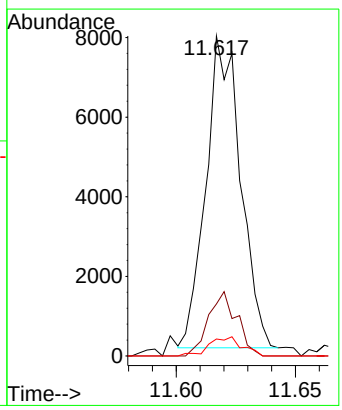


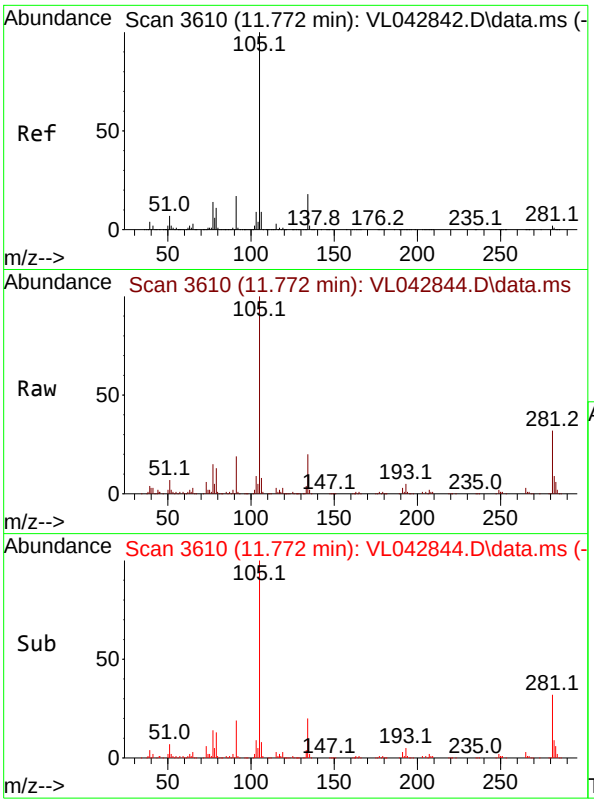


#66
Benzyl Chloride
Concen: 0.993 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

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



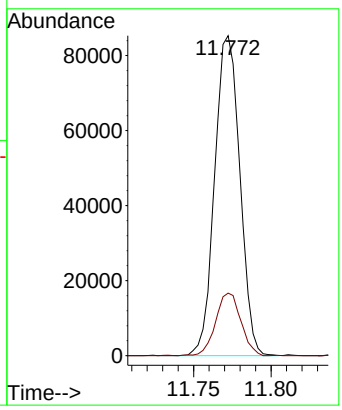


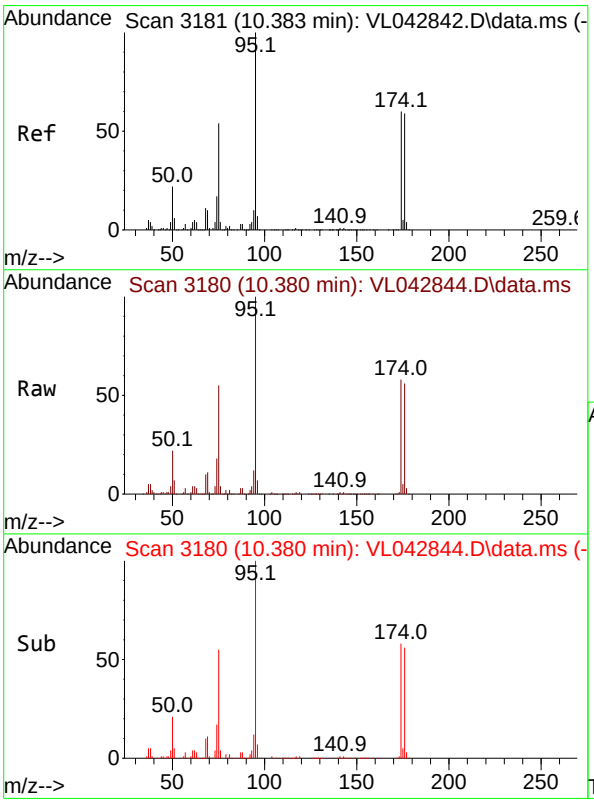
#67
sec-Butylbenzene
Concen: 1.095 ppbv
RT: 11.772 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:105 Resp: 96288

Ion	Ratio	Lower	Upper
105	100		
134	19.7	14.9	22.3

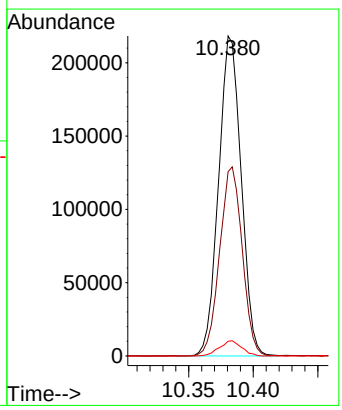


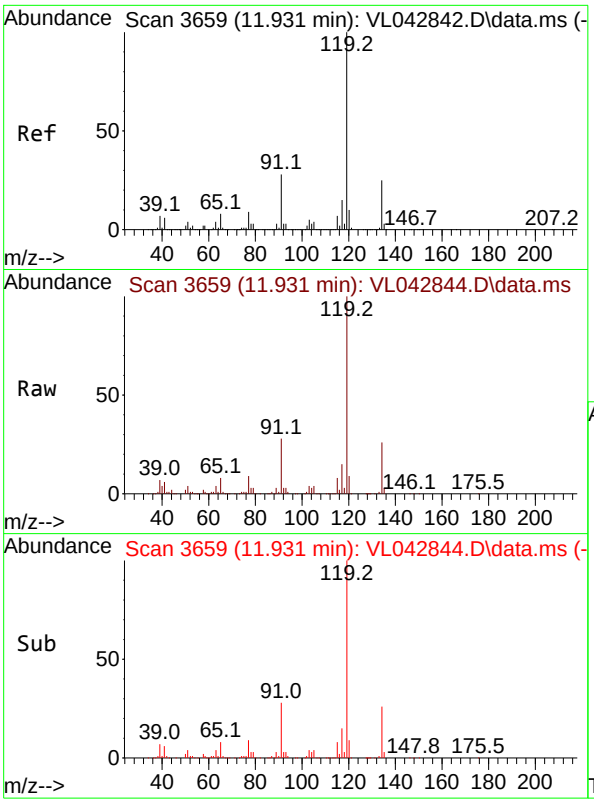


#68
1-Bromo-4-Fluorobenzene
Concen: 10.135 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

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



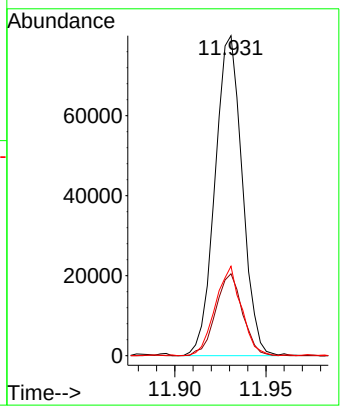


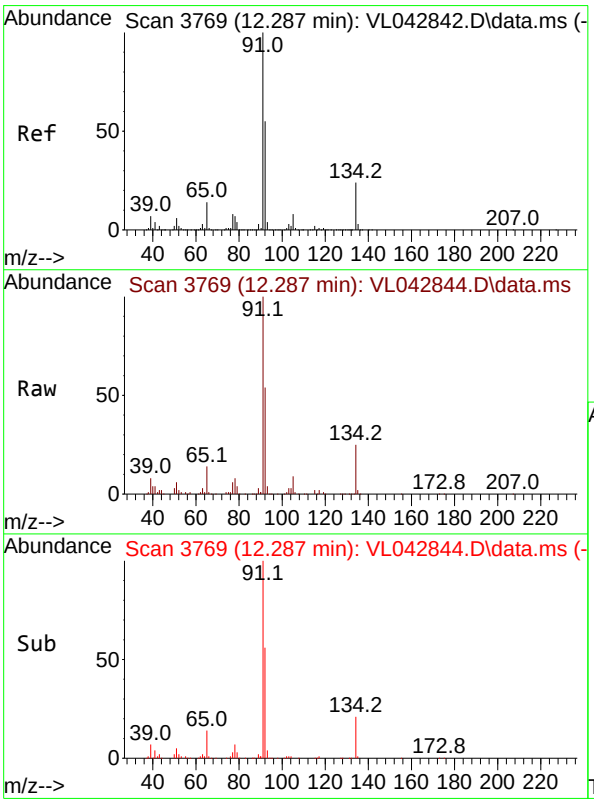
#69
p-Isopropyltoluene
Concen: 1.098 ppbv
RT: 11.931 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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

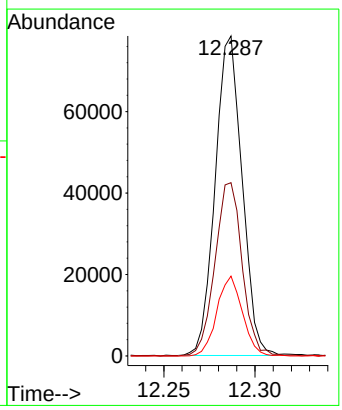


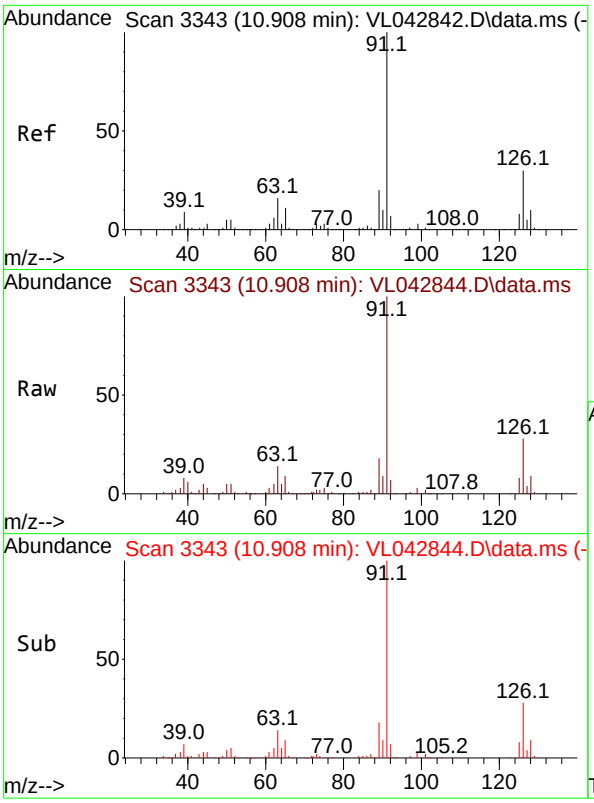


#70
n-Butylbenzene
Concen: 1.075 ppbv
RT: 12.287 min Scan# 3769
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

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



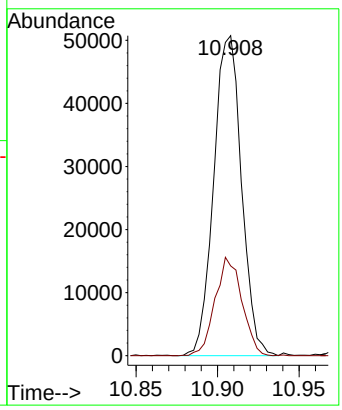


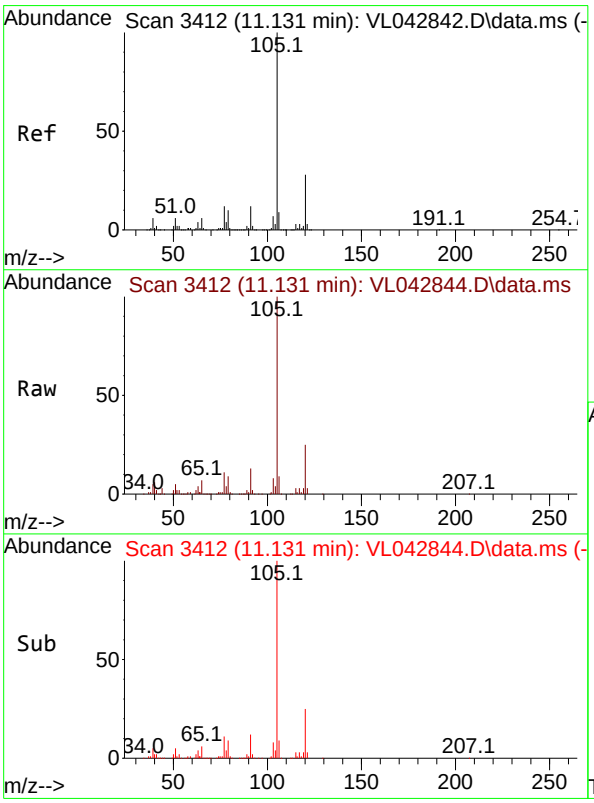
#71
2-Chlorotoluene
Concen: 1.089 ppbv
RT: 10.908 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 60086

Ion	Ratio	Lower	Upper
91	100		
126	29.7	12.0	47.8

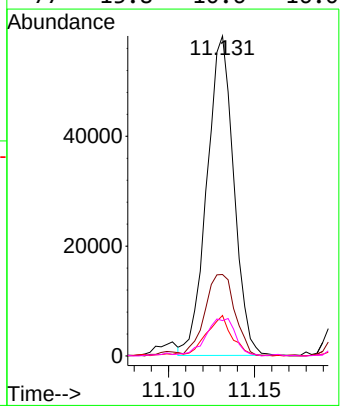


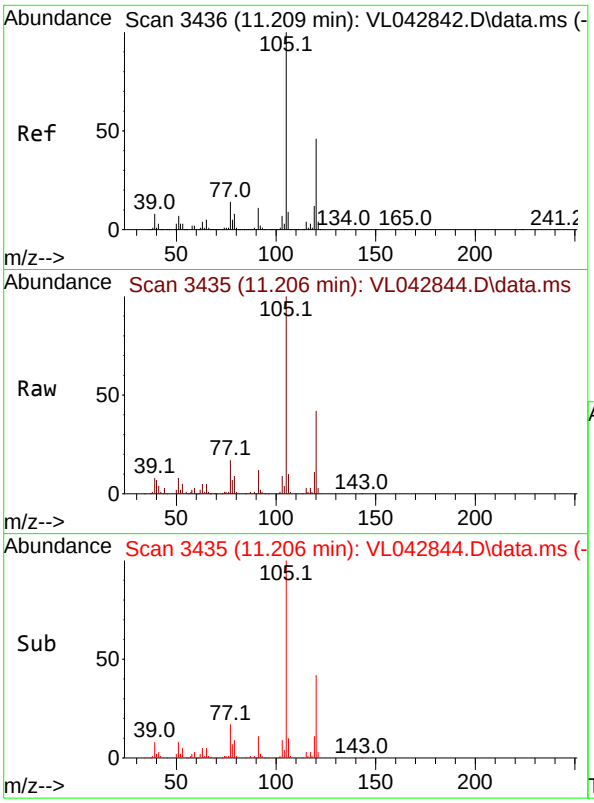


#72
4-Ethyltoluene
Concen: 1.071 ppbv
RT: 11.131 min Scan# 3412
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

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



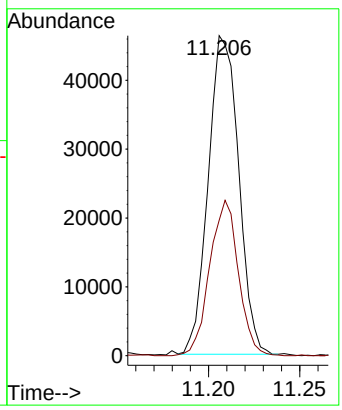


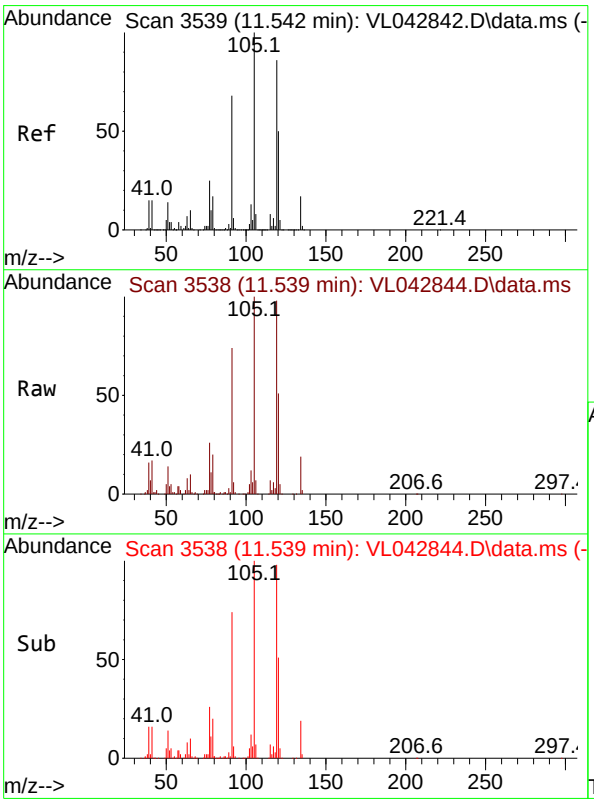
#73
1,3,5-Trimethylbenzene
Concen: 1.070 ppbv
RT: 11.206 min Scan# 34
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:105 Resp: 53676

Ion	Ratio	Lower	Upper
105	100		
120	42.3	36.6	54.8

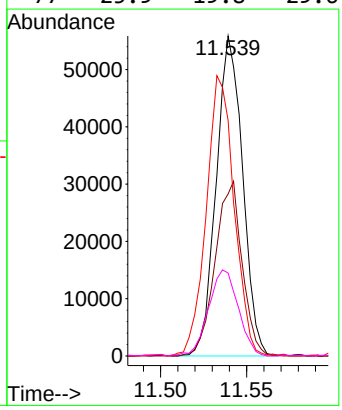


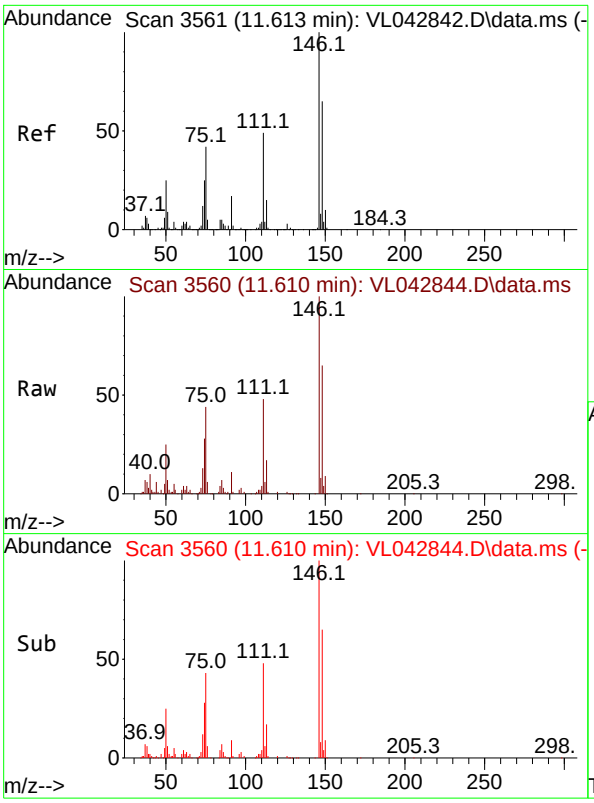


#74
1,2,4-Trimethylbenzene
Concen: 1.083 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

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



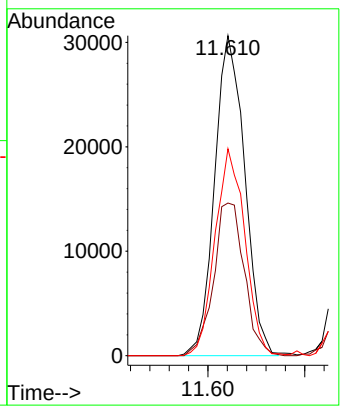


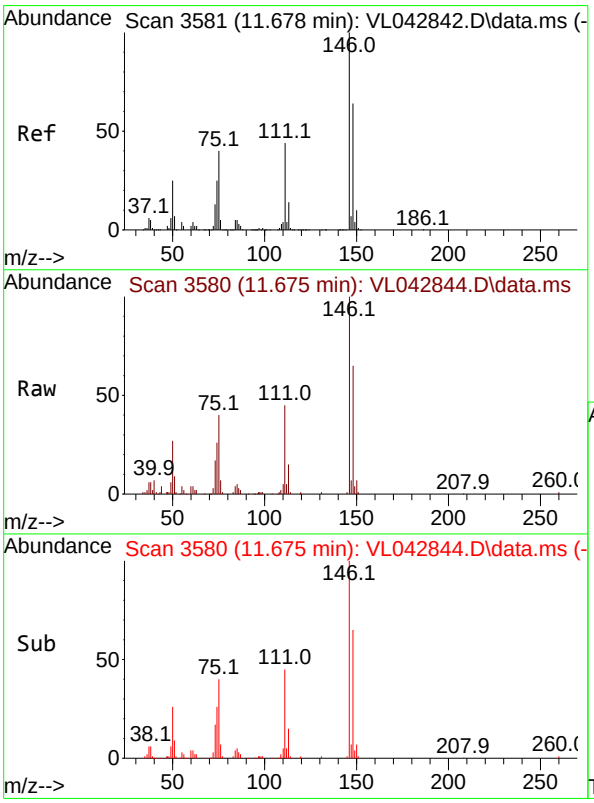
#75
1,3-Dichlorobenzene
Concen: 1.057 ppbv
RT: 11.610 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:146 Resp: 33061

Ion	Ratio	Lower	Upper
146	100		
111	48.6	23.9	71.7
148	64.1	31.4	94.0

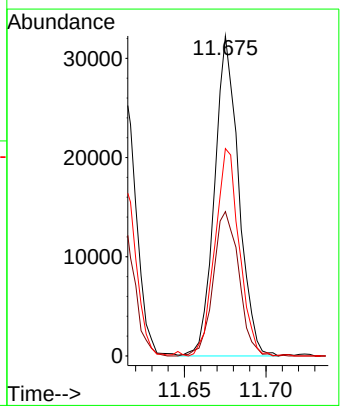


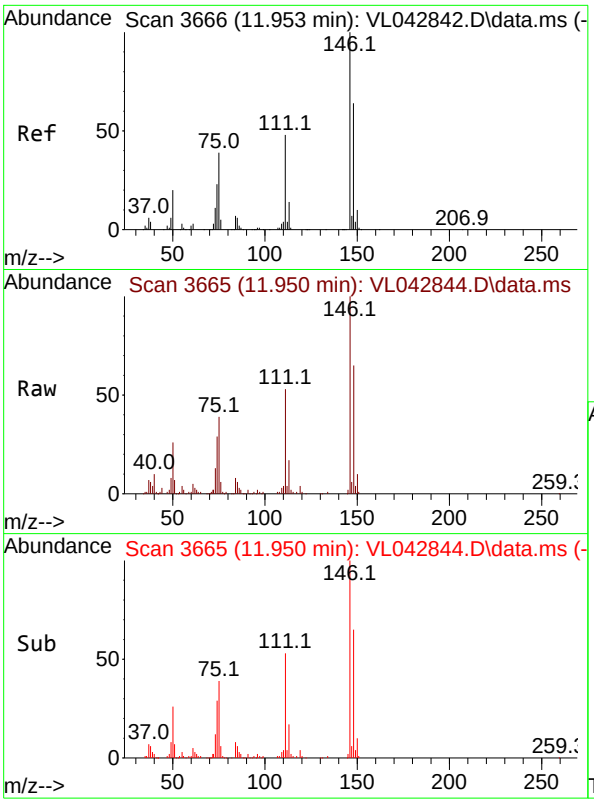


#76
1,4-Dichlorobenzene
Concen: 1.045 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

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



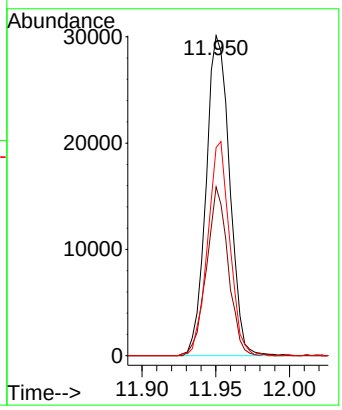


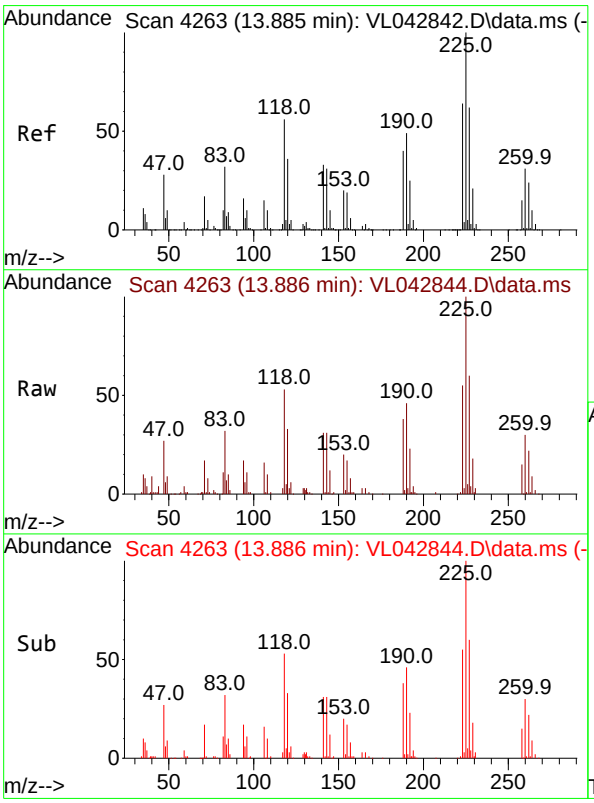
#77
1,2-Dichlorobenzene
Concen: 1.090 ppbv
RT: 11.950 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

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

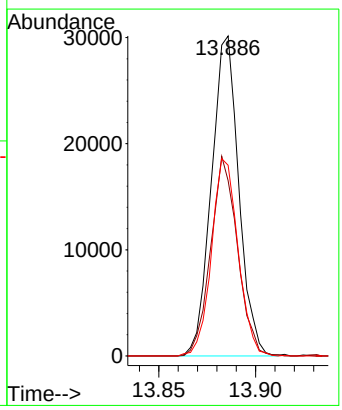


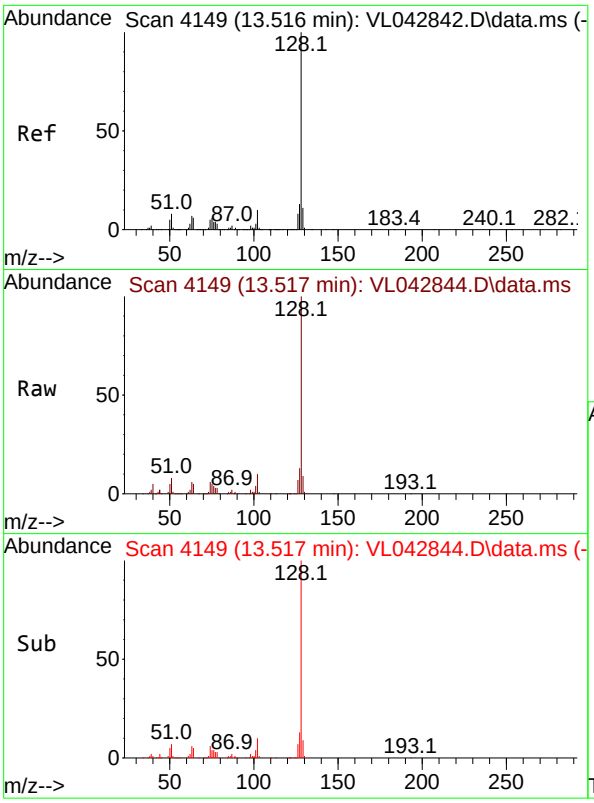


#78
Hexachloro-1,3-Butadiene
Concen: 1.177 ppbv
RT: 13.886 min Scan# 4263
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

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



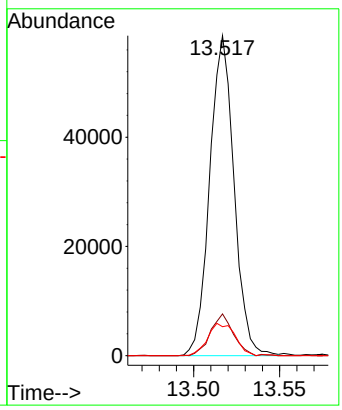


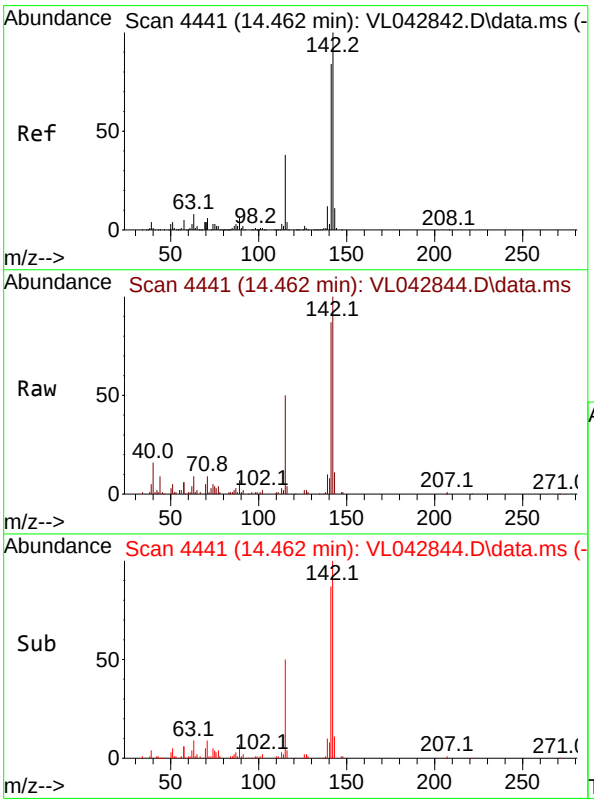
#79
Naphthalene
Concen: 1.169 ppbv
RT: 13.517 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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

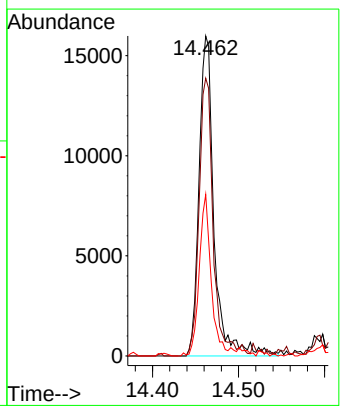


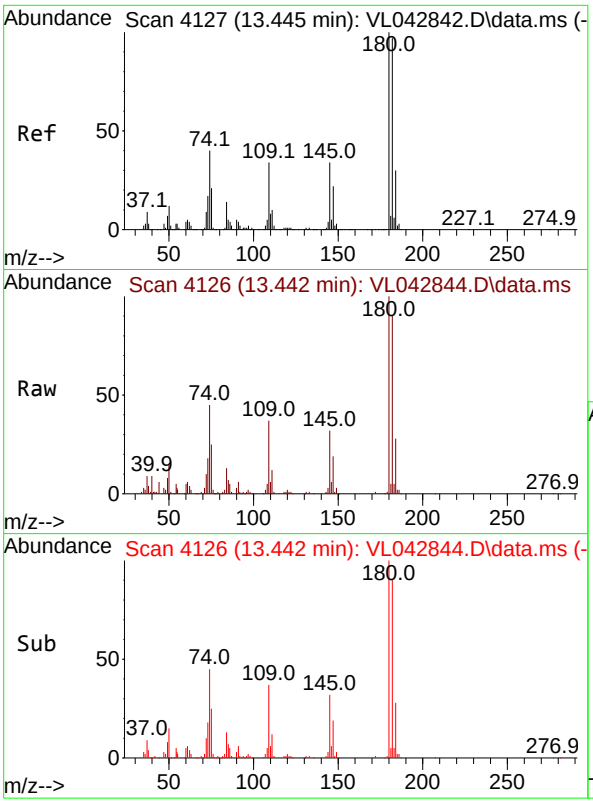


#80
Naphthalene,2-methyl-
Concen: 1.045 ppbv
RT: 14.462 min Scan# 4441
Delta R.T. 0.000 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

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



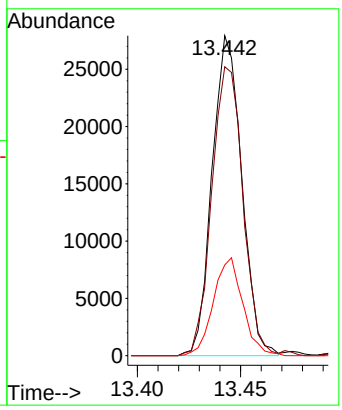


#81
1,2,4-Trichlorobenzene
Concen: 1.111 ppbv
RT: 13.442 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042844.D
Acq: 13 Aug 2025 09:41

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



Quantitation Report (Not Reviewed)

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_LFri 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

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_LFri Aug 26 06:05:16 2022
QLast Update : Thu Aug 14 01:44:36 2025
Response via : Initial Calibration

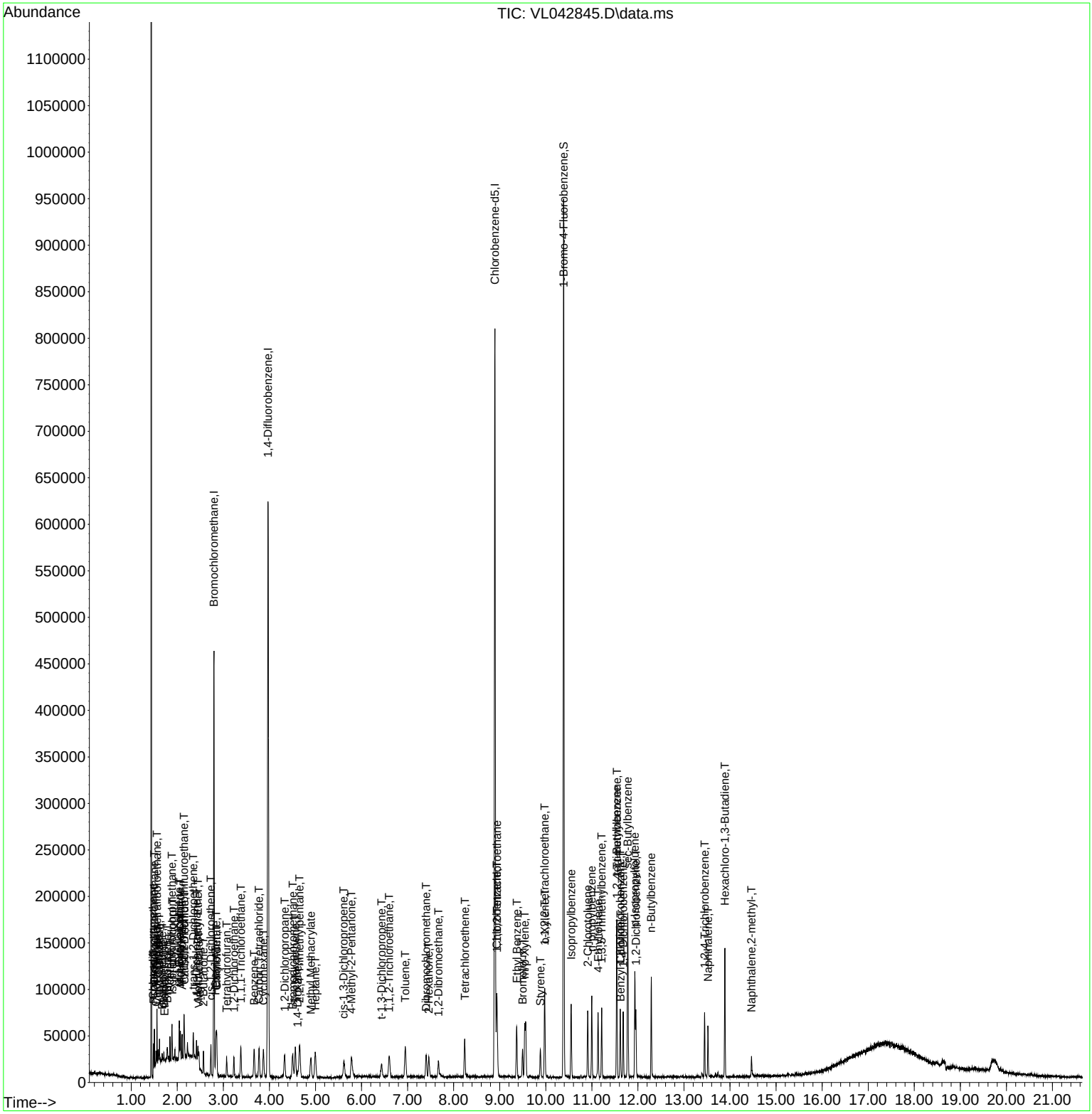
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.613	75	4895	0.221	ppbv		89
47) 1,1,2-Trichloroethane	6.597	97	3140	0.214	ppbv		90
48) Dibromochloromethane	7.406	129	11805	0.497	ppbv		100
49) Bromoform	9.497	173	9232	0.471	ppbv		95
50) 4-Methyl-2-Pentanone	5.778	43	11657	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

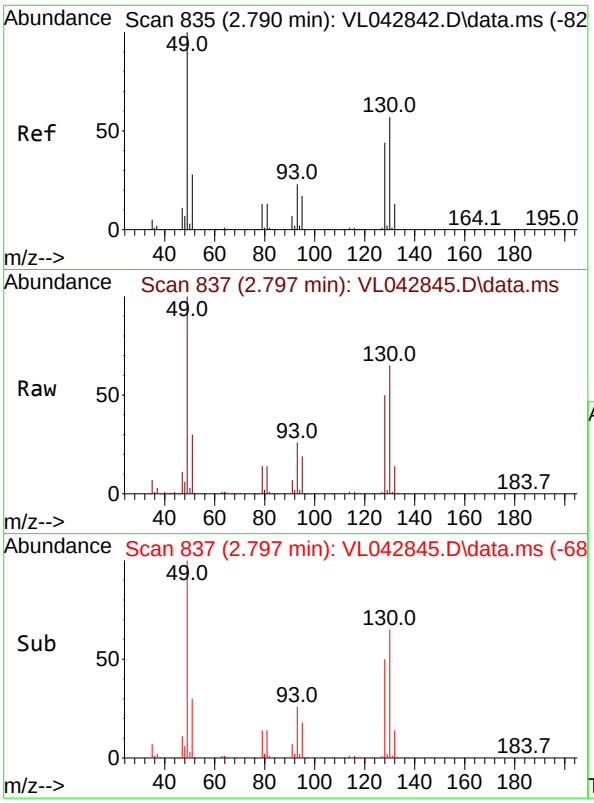
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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_LFri Aug 26 06:05:16 2022
QLast Update : Thu Aug 14 01:44:36 2025
Response via : Initial Calibration



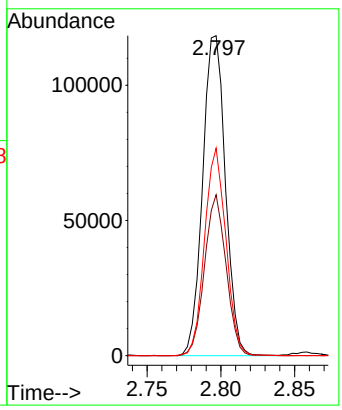


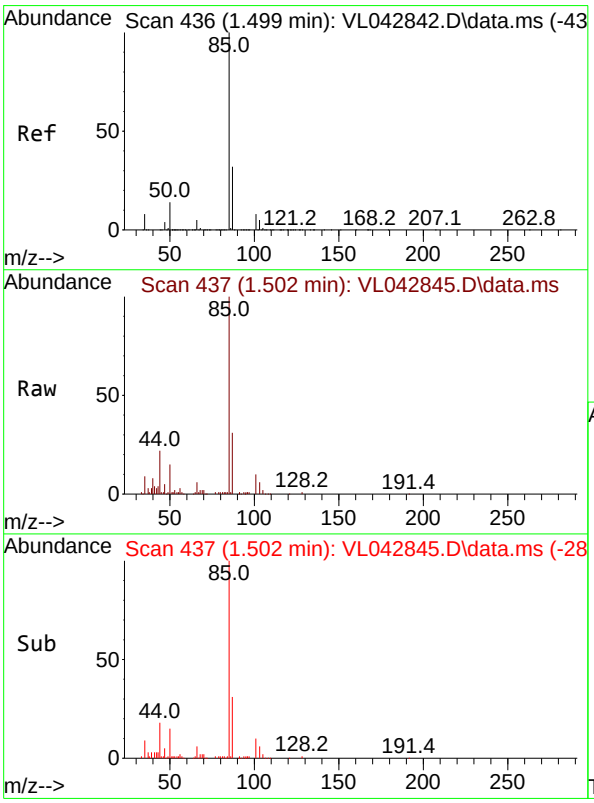
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 8
Delta R.T. 0.007 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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

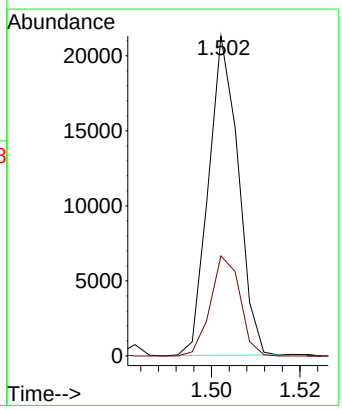


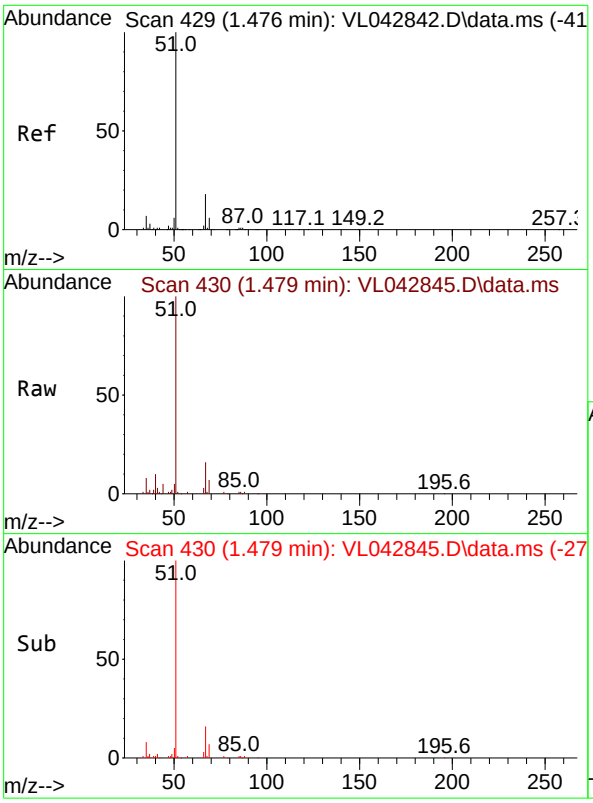


#2
Dichlorodifluoromethane
Concen: 0.534 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 85 Resp: 9937

Ion	Ratio	Lower	Upper
85	100		
87	31.3	25.3	37.9



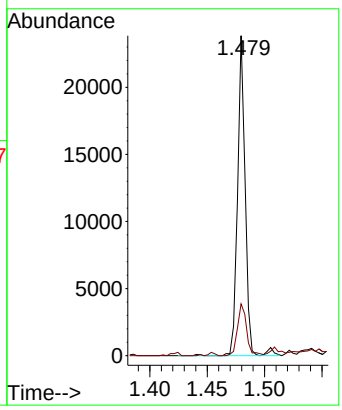


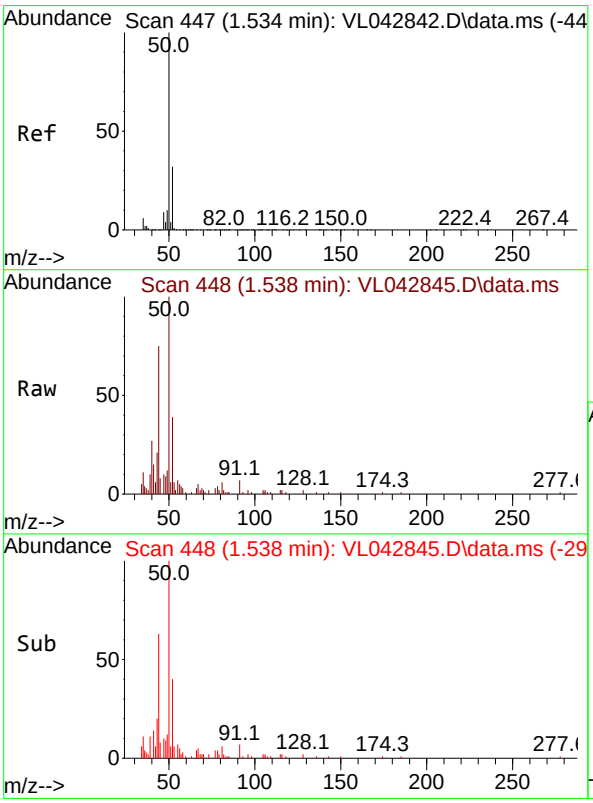
#3
Chlorodifluoromethane
Concen: 0.540 ppbv
RT: 1.479 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 51 Resp: 11115

Ion	Ratio	Lower	Upper
51	100		
67	20.5	14.9	22.3

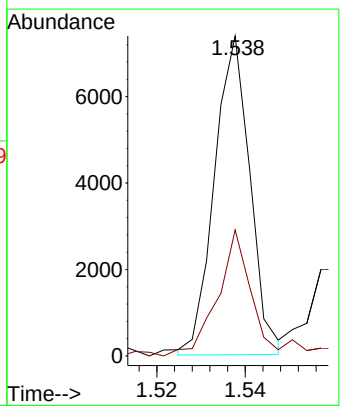


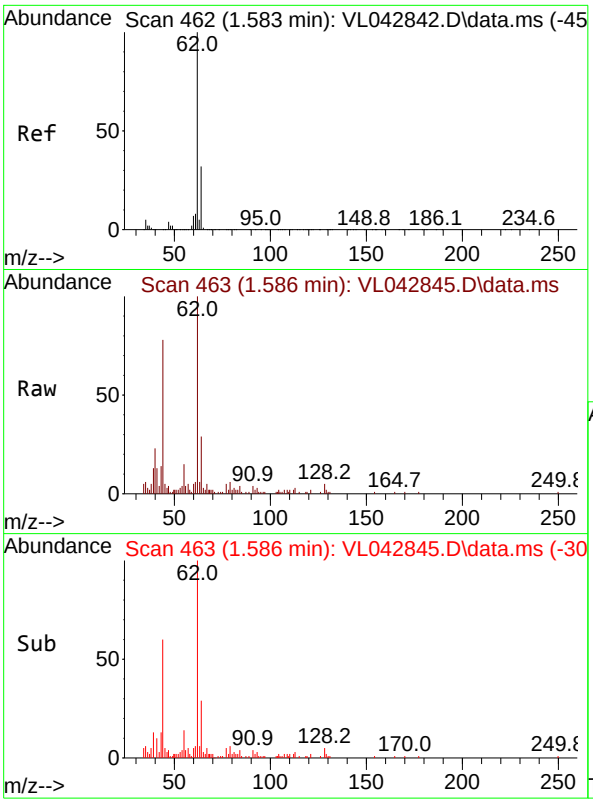


#4
Chloromethane
Concen: 0.548 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 50 Resp: 4112

Ion	Ratio	Lower	Upper
50	100		
52	38.2	25.9	38.9



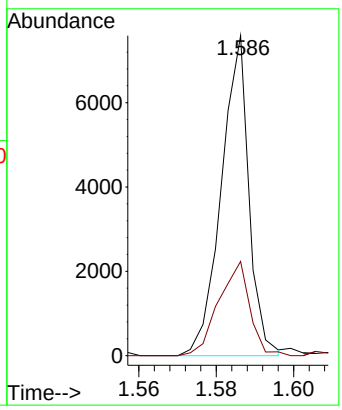


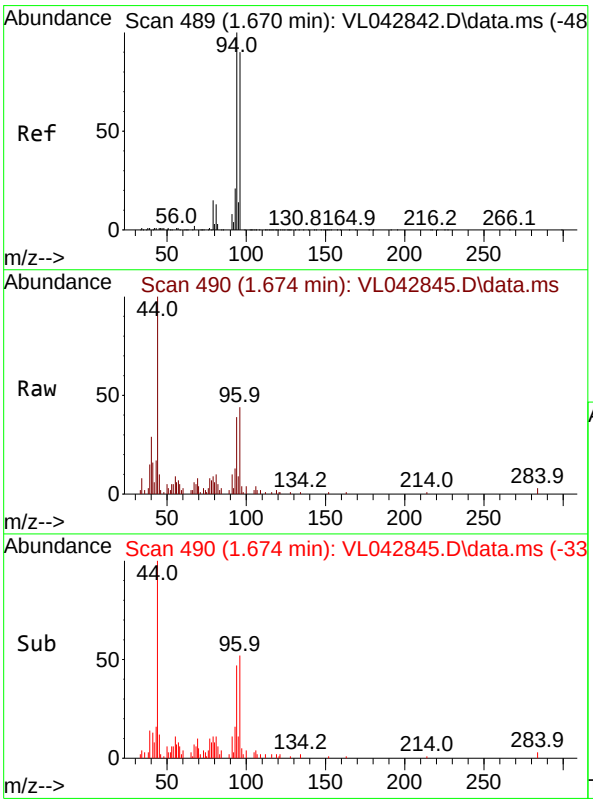
#5
Vinyl Chloride
Concen: 0.509 ppbv
RT: 1.586 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 62 Resp: 3762

Ion	Ratio	Lower	Upper
62	100		
64	28.3	25.4	38.2

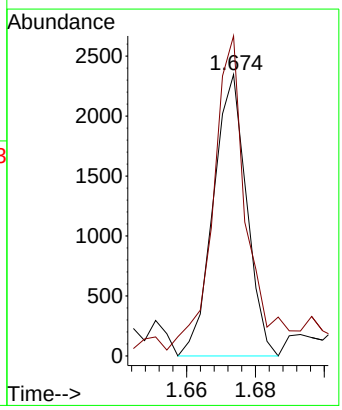


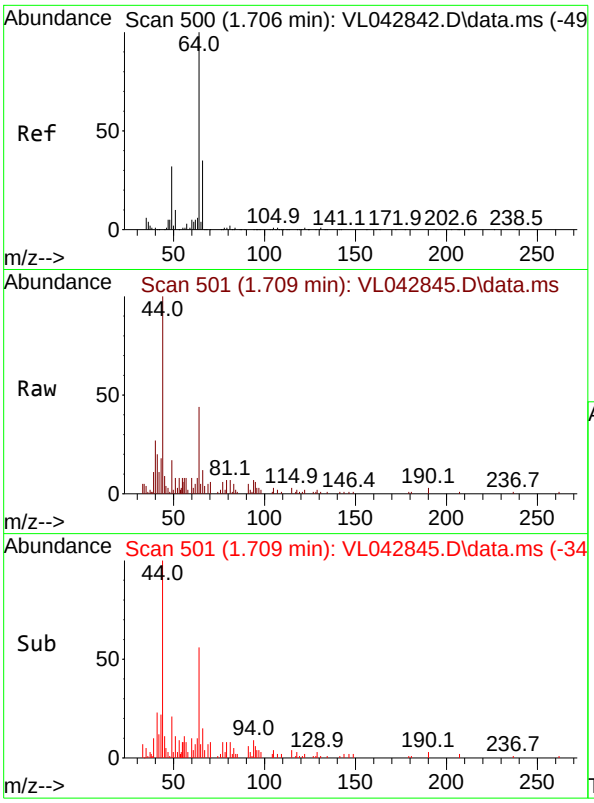


#6
Bromomethane
Concen: 0.533 ppbv
RT: 1.674 min Scan# 490
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 94 Resp: 1576

Ion	Ratio	Lower	Upper
94	100		
96	106.9	72.1	108.1



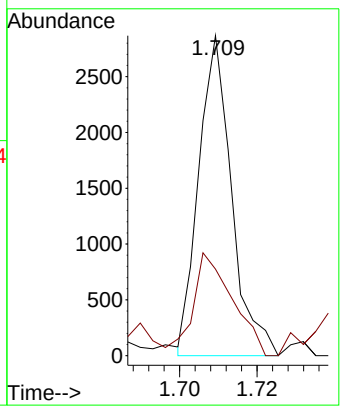


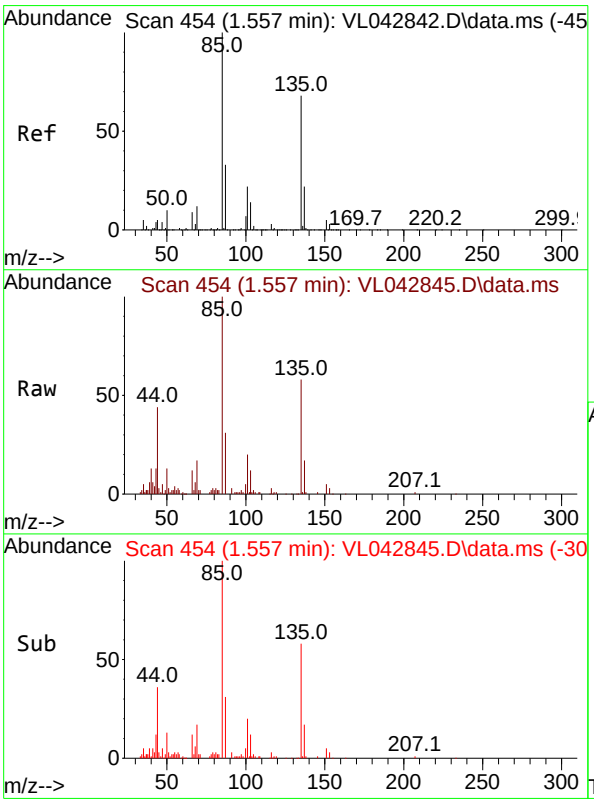
#7
Chloroethane
Concen: 0.586 ppbv
RT: 1.709 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 64 Resp: 1690

Ion	Ratio	Lower	Upper
64	100		
66	27.0	28.6	42.8#

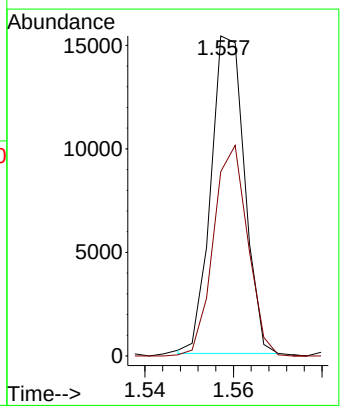


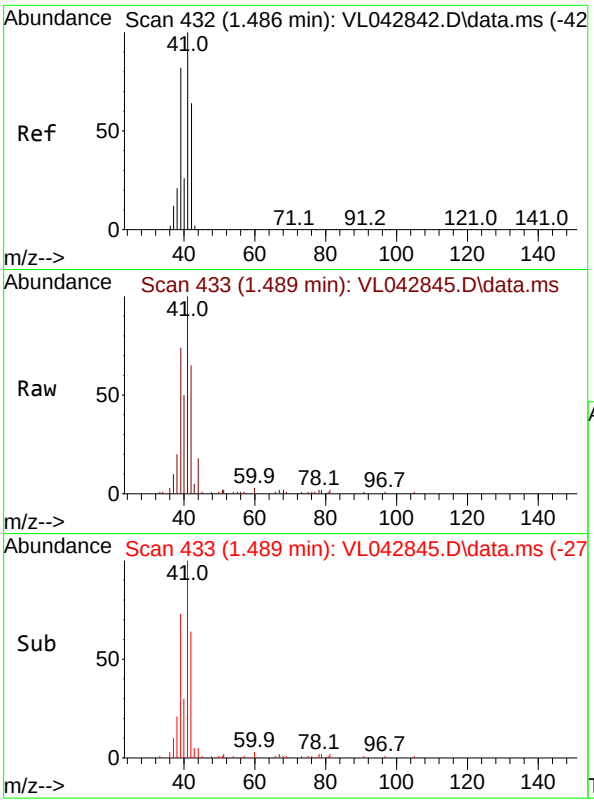


#8
Dichlorotetrafluoroethane
Concen: 0.531 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.000 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 85 Resp: 8079

Ion	Ratio	Lower	Upper
85	100		
135	67.7	51.2	76.8



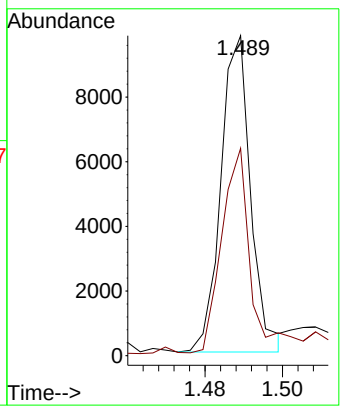


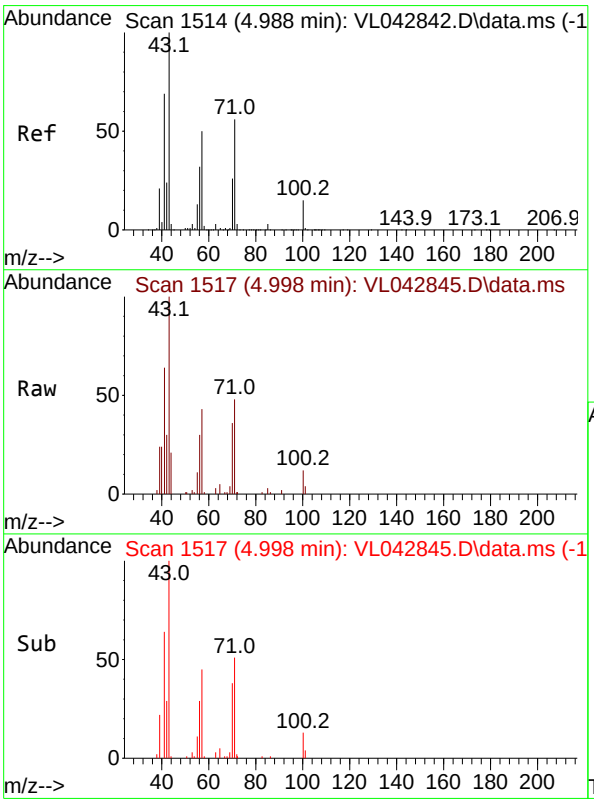
#9
Propene
Concen: 0.589 ppbv
RT: 1.489 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 41 Resp: 5225

Ion	Ratio	Lower	Upper
41	100		
42	73.7	53.0	79.4

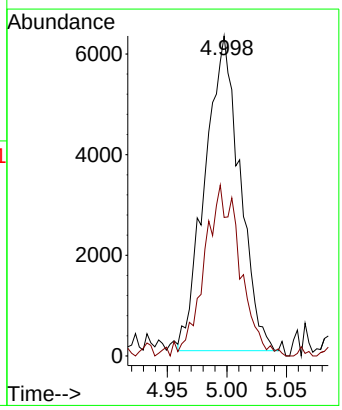


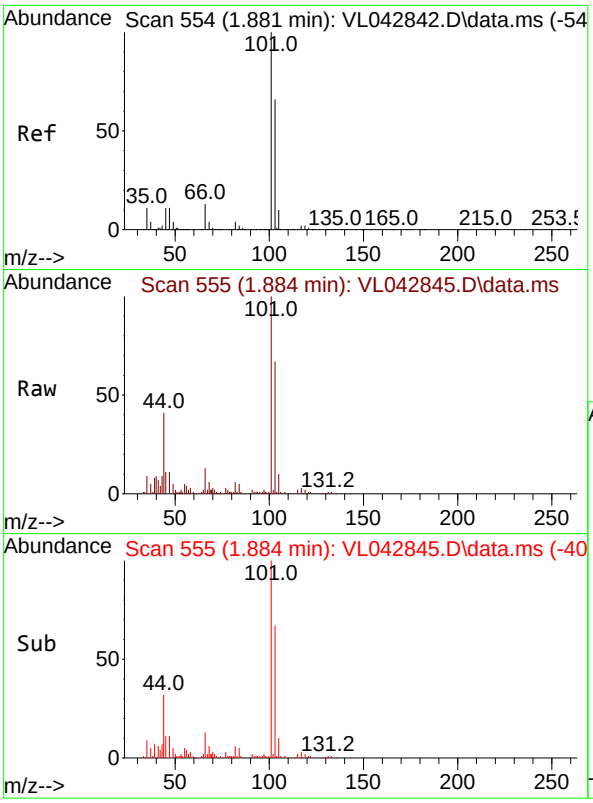


#10
Heptane
Concen: 0.537 ppbv
RT: 4.998 min Scan# 1517
Delta R.T. 0.010 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 43 Resp: 12747

Ion	Ratio	Lower	Upper
43	100		
57	56.9	41.4	62.0



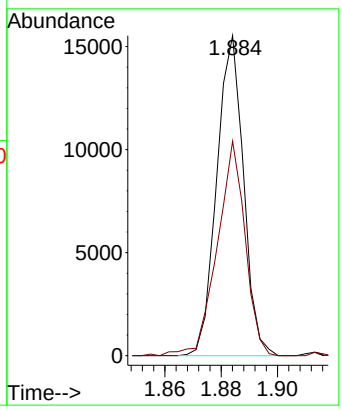


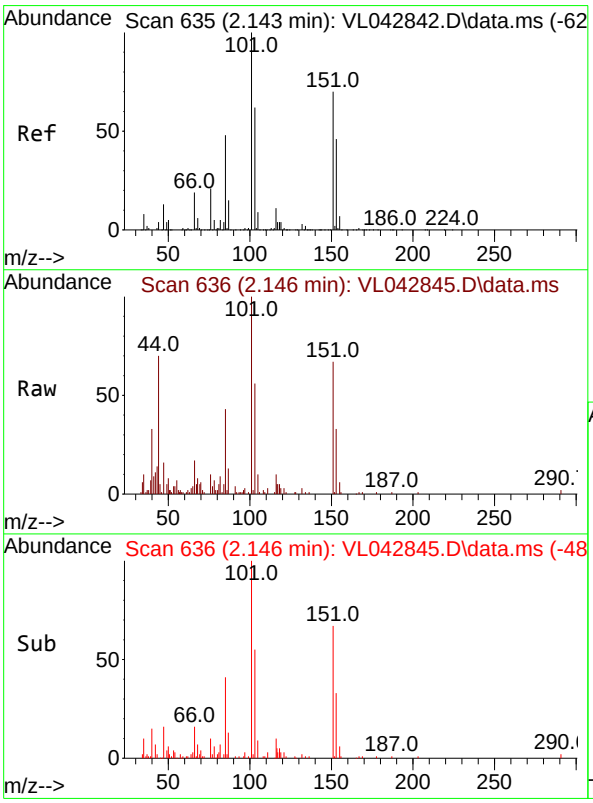
#11
Trichlorofluoromethane
Concen: 0.558 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:101 Resp: 10238

Ion	Ratio	Lower	Upper
101	100		
103	67.0	52.5	78.7

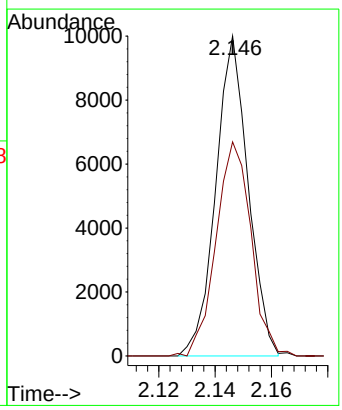


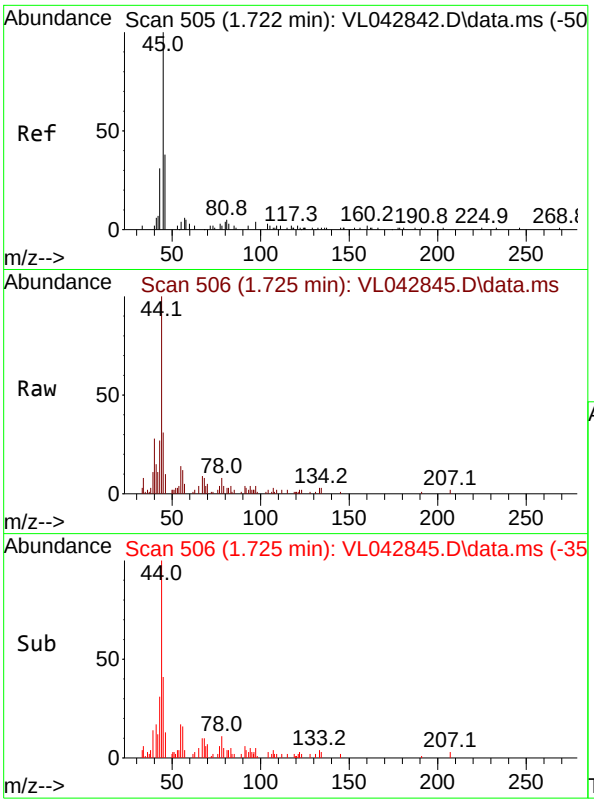


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.546 ppbv
RT: 2.146 min Scan# 636
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion:101 Resp: 7984

Ion	Ratio	Lower	Upper
101	100		
151	72.3	56.4	84.6



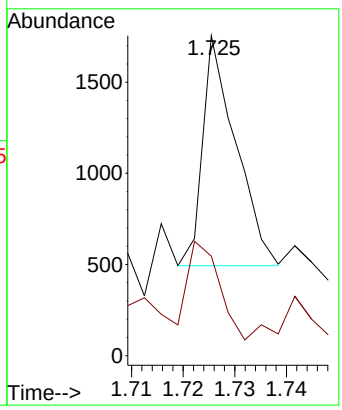


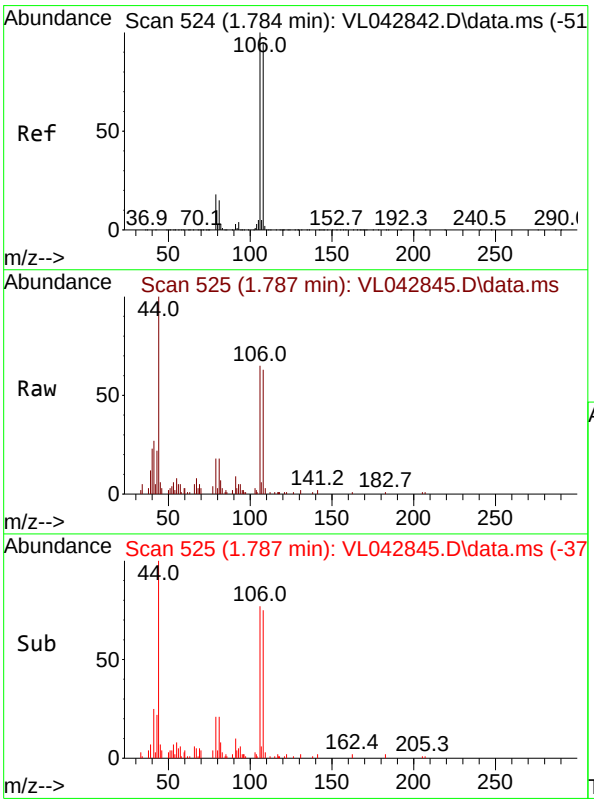
#13
Ethanol
Concen: 0.639 ppbv
RT: 1.725 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 45 Resp: 562

Ion	Ratio	Lower	Upper
45	100		
46	131.5	17.5	69.9#

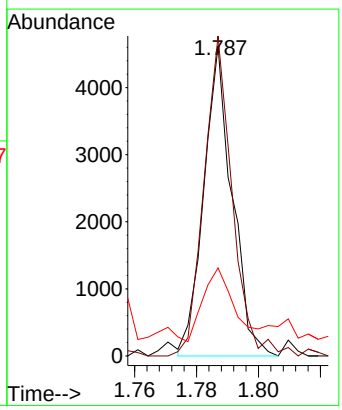


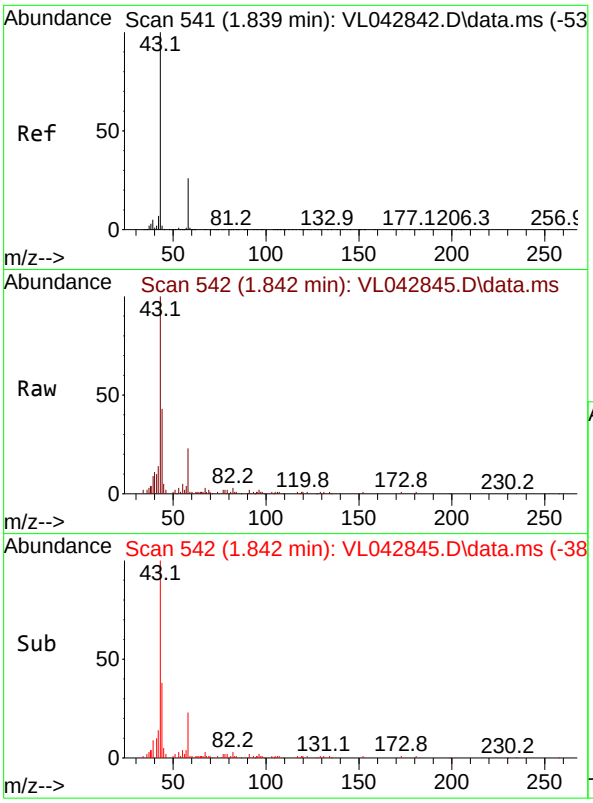


#14
Bromoethene
Concen: 0.554 ppbv
RT: 1.787 min Scan# 525
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

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#



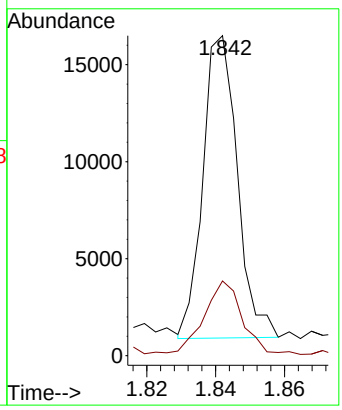


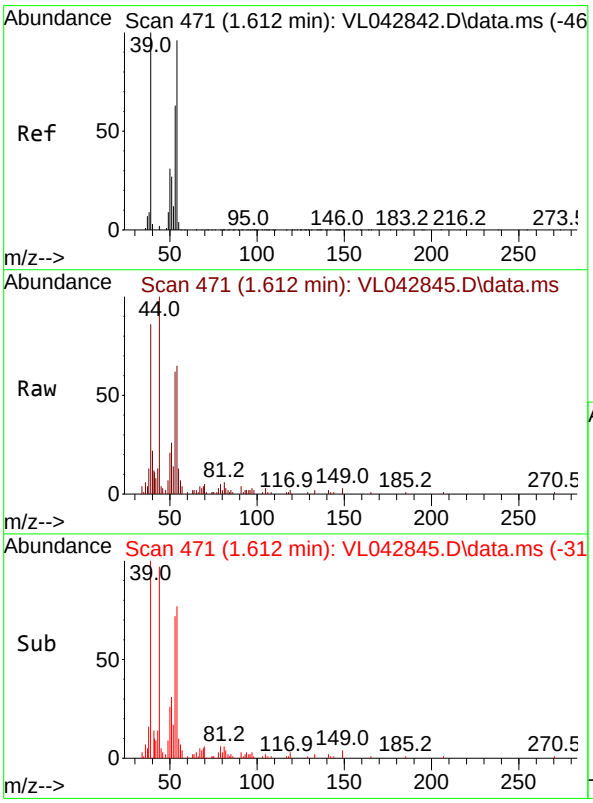
#15
Acetone
Concen: 0.646 ppbv
RT: 1.842 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 43 Resp: 10836

Ion	Ratio	Lower	Upper
43	100		
58	26.8	22.4	33.6

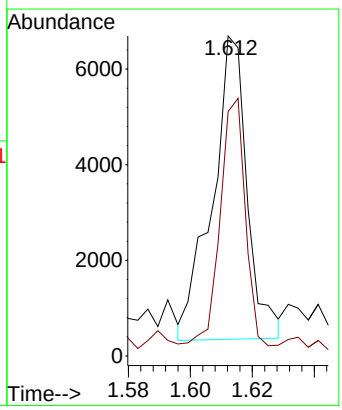


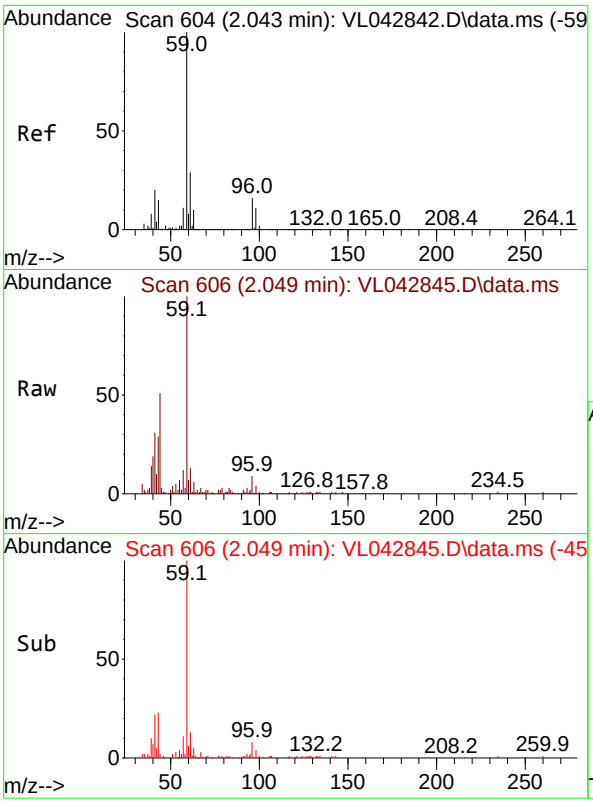


#16
1,3-Butadiene
Concen: 0.653 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.000 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 39 Resp: 4970

Ion	Ratio	Lower	Upper
39	100		
54	78.6	63.6	95.4



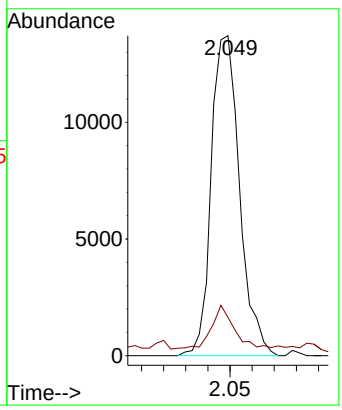


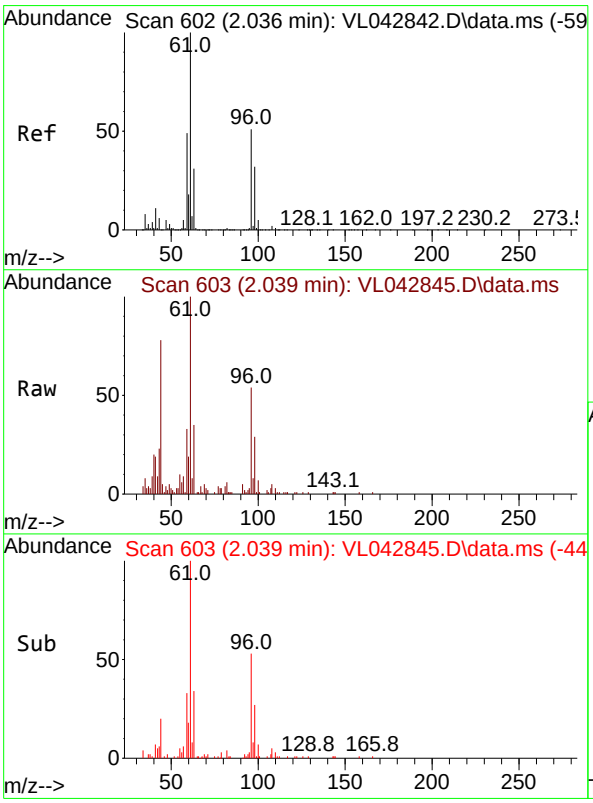
#17
tert-Butyl alcohol
Concen: 0.612 ppbv
RT: 2.049 min Scan# 6
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 59 Resp: 12182

Ion	Ratio	Lower	Upper
59	100		
57	15.3	9.0	13.4#

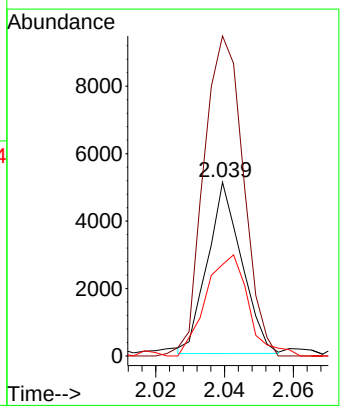


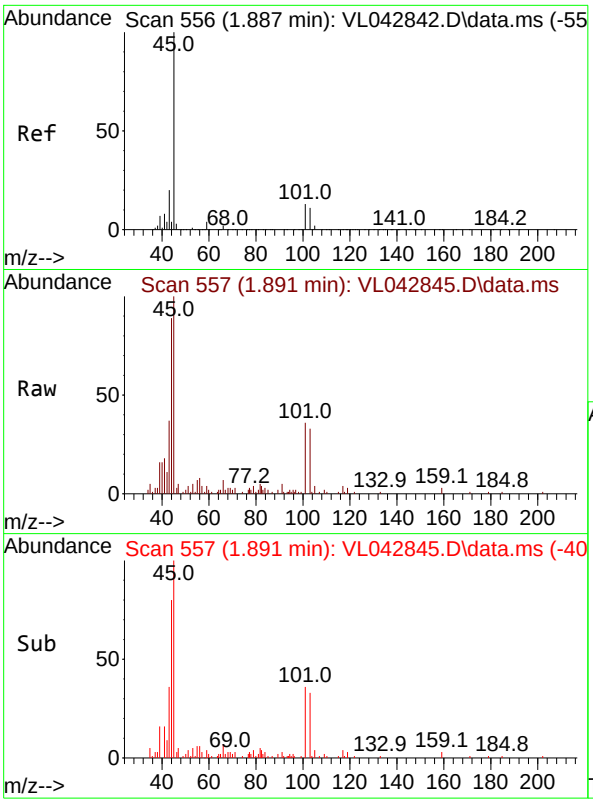


#18
1,1-Dichloroethene
Concen: 0.545 ppbv
RT: 2.039 min Scan# 603
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

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



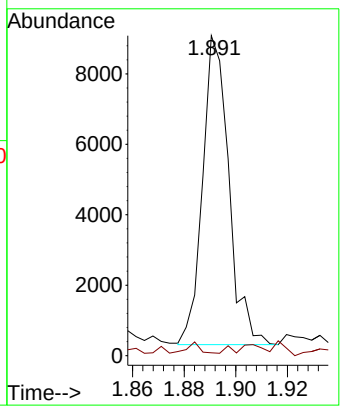


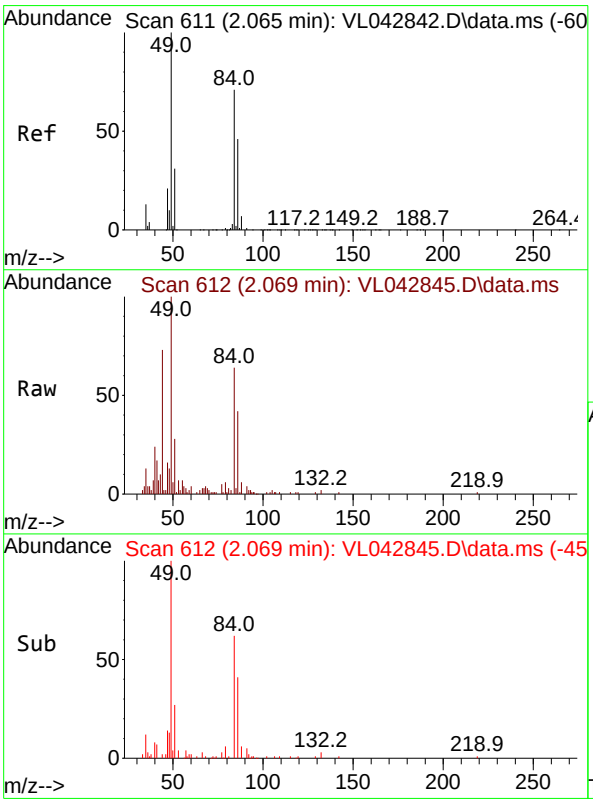
#19
Isopropyl Alcohol
Concen: 0.618 ppbv
RT: 1.891 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 45 Resp: 6194

Ion	Ratio	Lower	Upper
45	100		
58	13.3	32.7	49.1#

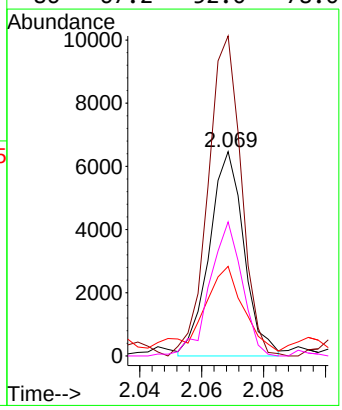


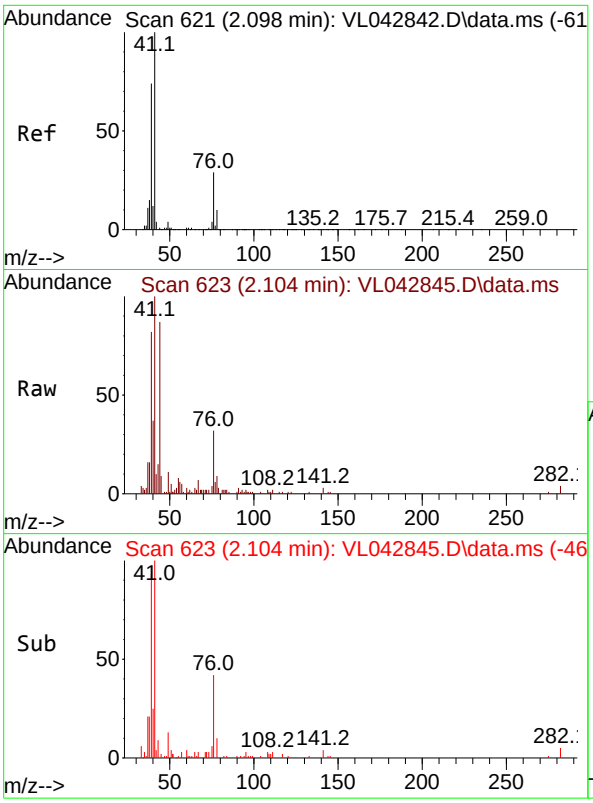


#20
Methylene Chloride
Concen: 0.715 ppbv
RT: 2.069 min Scan# 612
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

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



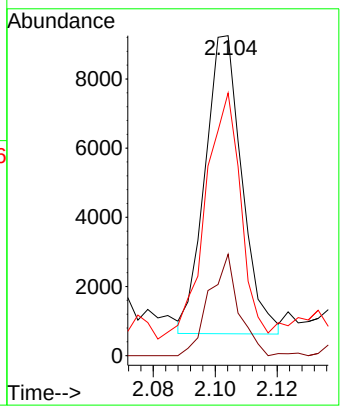


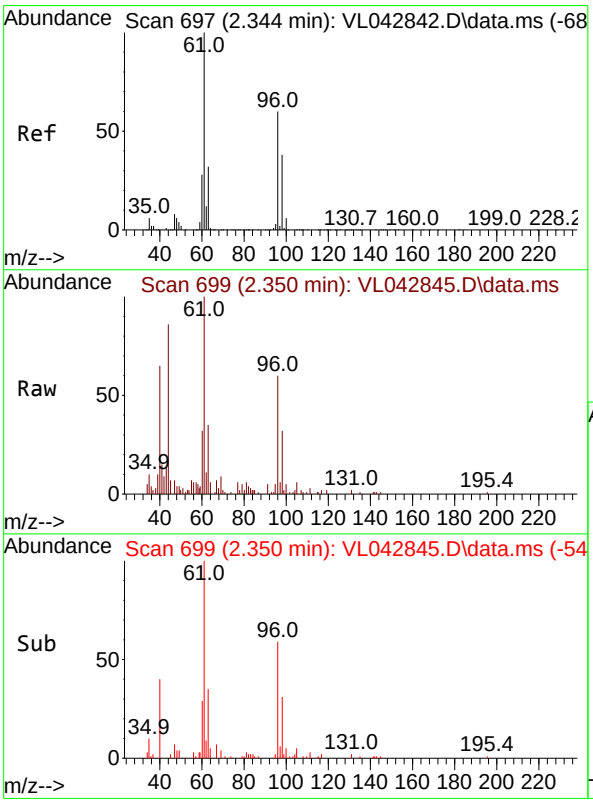
#21
Allyl Chloride
Concen: 0.600 ppbv
RT: 2.104 min Scan# 6
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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#

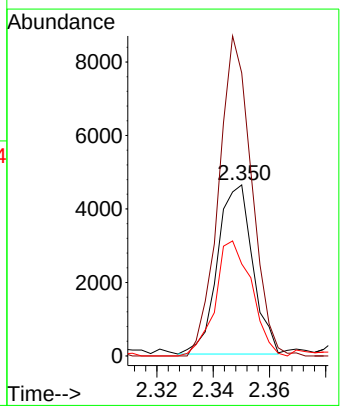


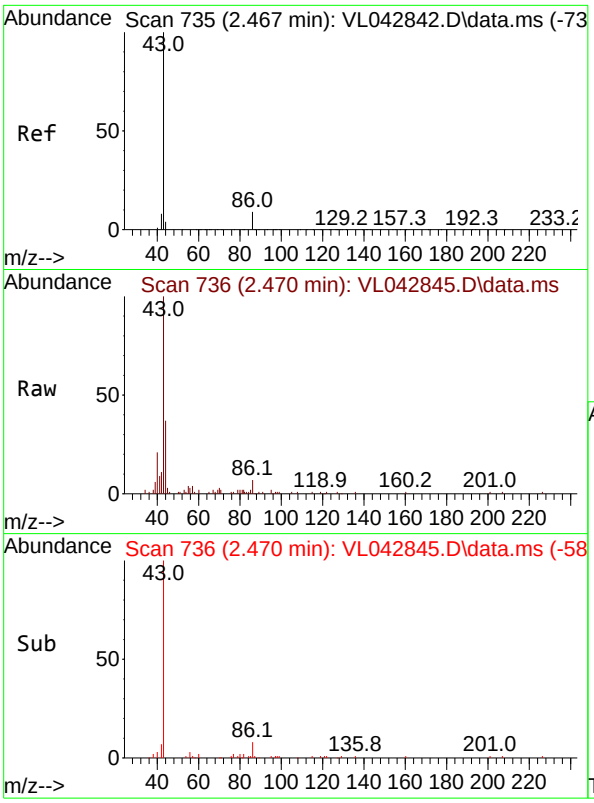


#22
trans-1,2-Dichloroethene
Concen: 0.556 ppbv
RT: 2.350 min Scan# 699
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

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



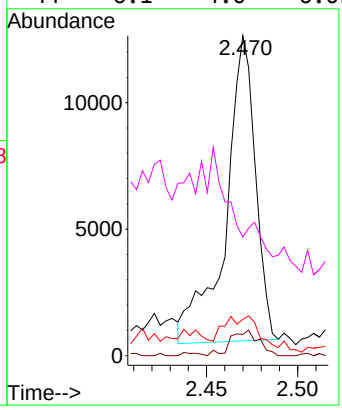


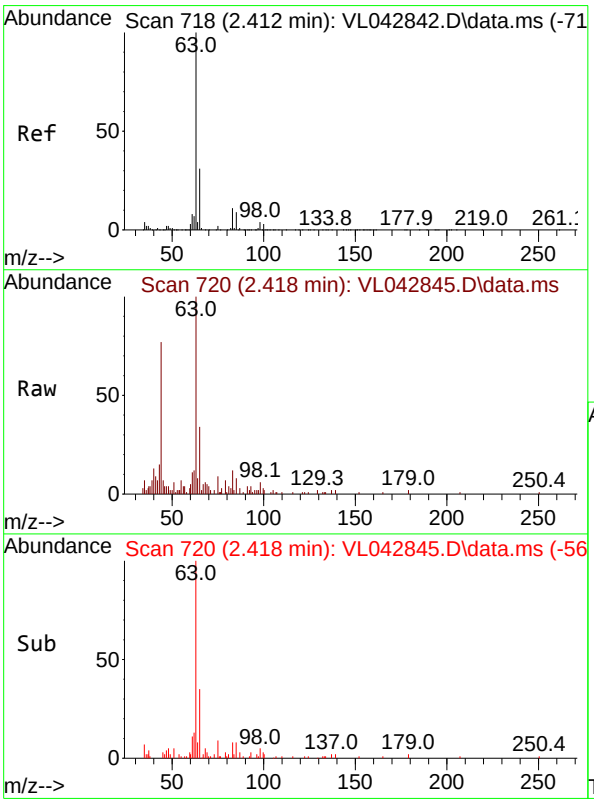
#23
Vinyl Acetate
Concen: 0.621 ppbv
RT: 2.470 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 43 Resp: 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#

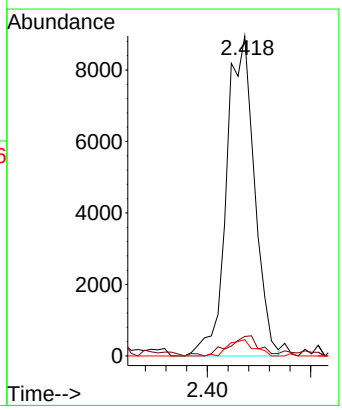


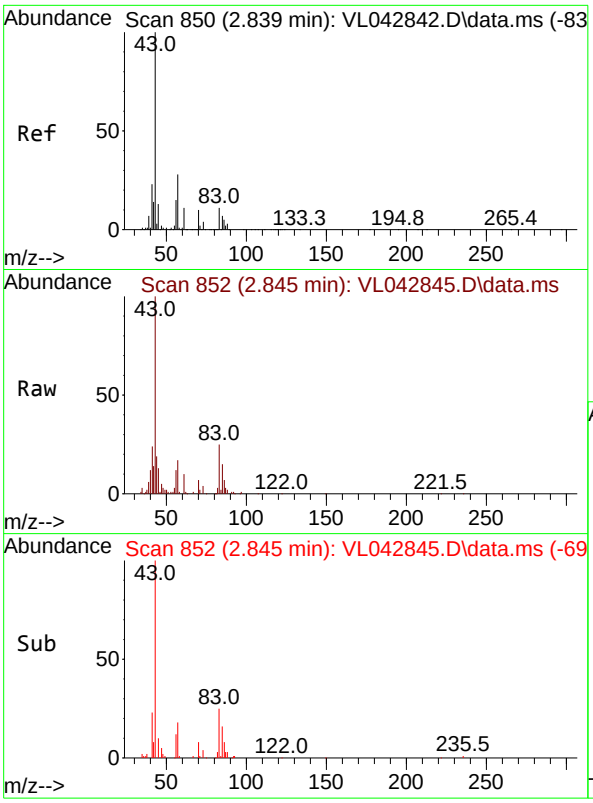


#24
1,1-Dichloroethane
Concen: 0.562 ppbv
RT: 2.418 min Scan# 720
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

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#



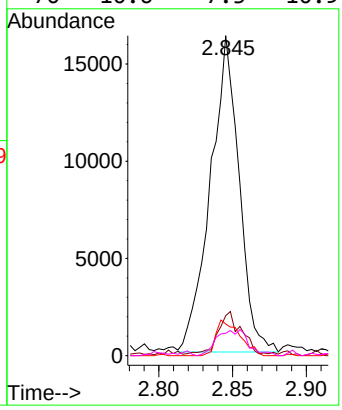


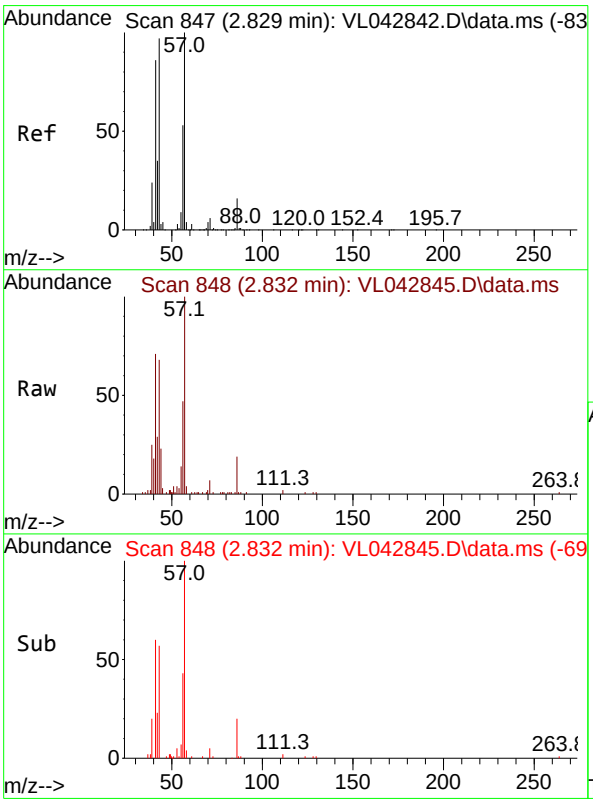
#25
Ethyl Acetate
Concen: 0.545 ppbv
RT: 2.845 min Scan# 8
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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

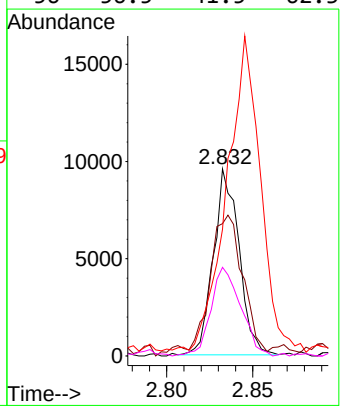


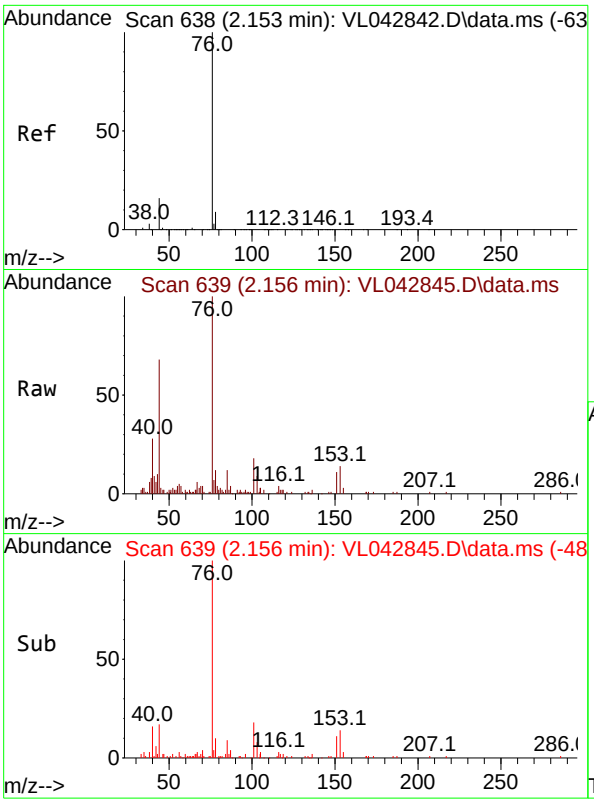


#26
Hexane
Concen: 0.527 ppbv
RT: 2.832 min Scan# 848
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

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



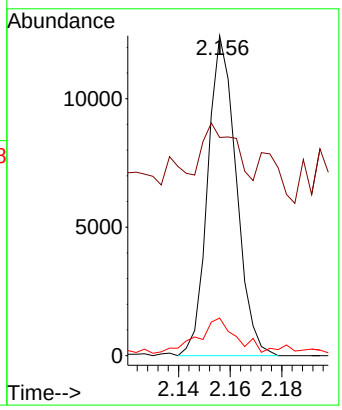


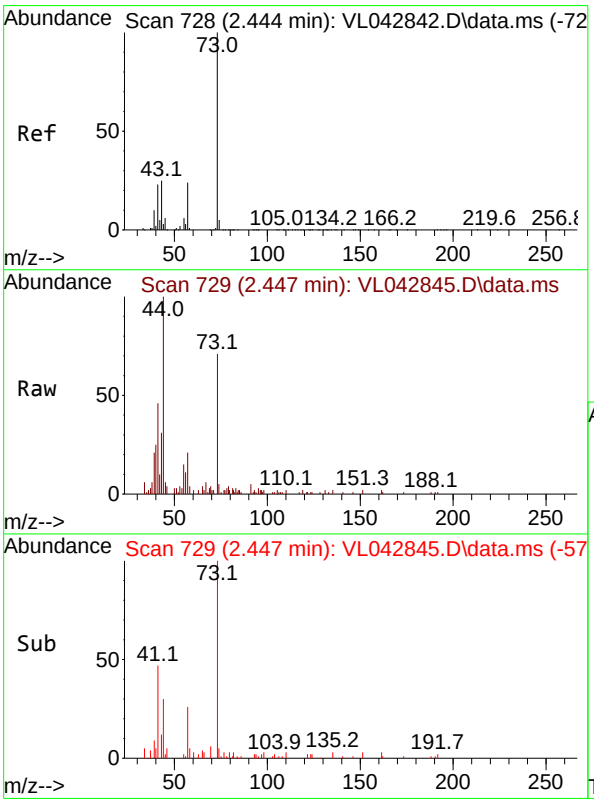
#27
Carbon Disulfide
Concen: 0.523 ppbv
RT: 2.156 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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#

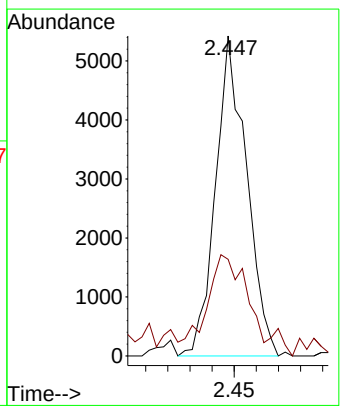


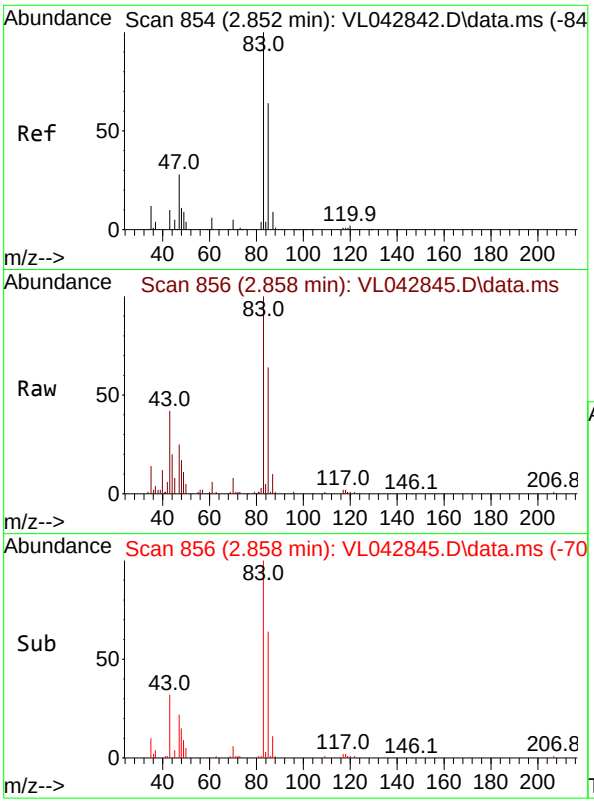


#28
Methyl tert-Butyl Ether
Concen: 0.553 ppbv
RT: 2.447 min Scan# 729
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 73 Resp: 5284

Ion	Ratio	Lower	Upper
73	100		
57	46.5	21.6	32.4#



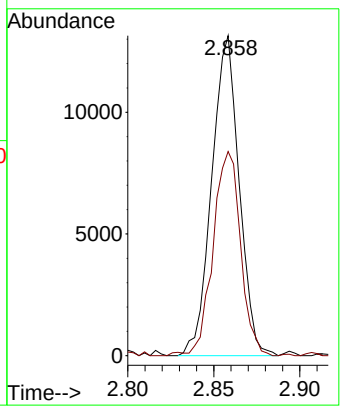


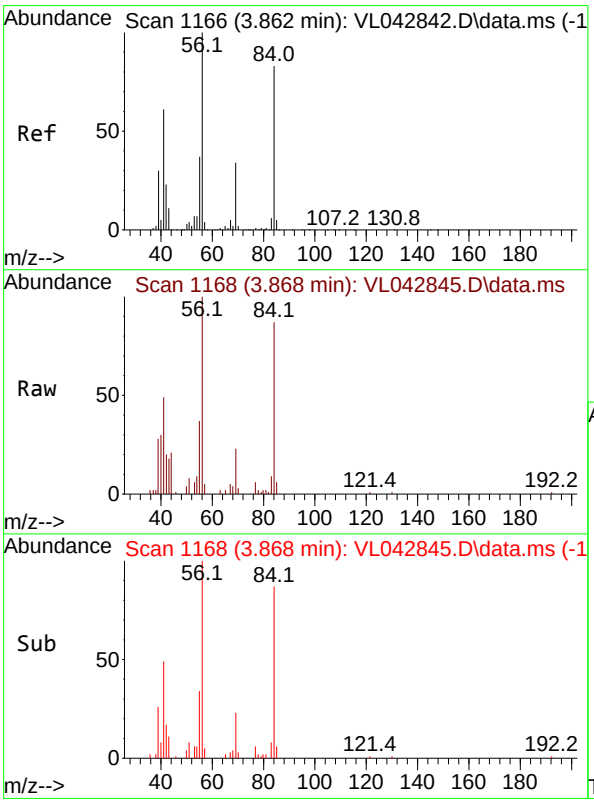
#29
Chloroform
Concen: 0.545 ppbv
RT: 2.858 min Scan# 8
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 83 Resp: 14586

Ion	Ratio	Lower	Upper
83	100		
85	63.8	51.1	76.7

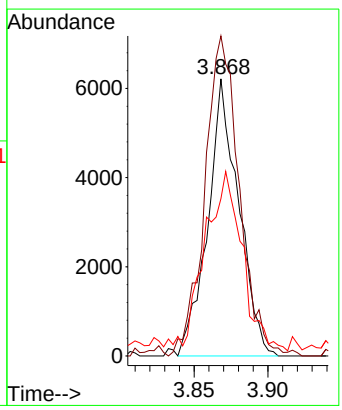


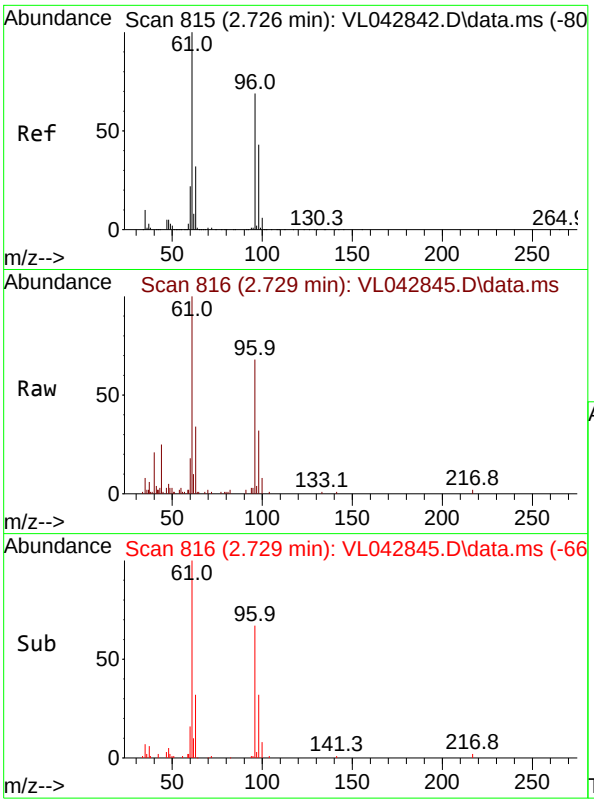


#30
Cyclohexane
Concen: 0.550 ppbv
RT: 3.868 min Scan# 1168
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

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



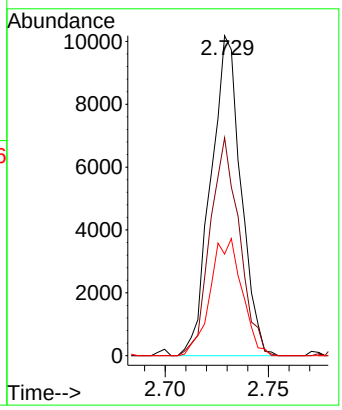


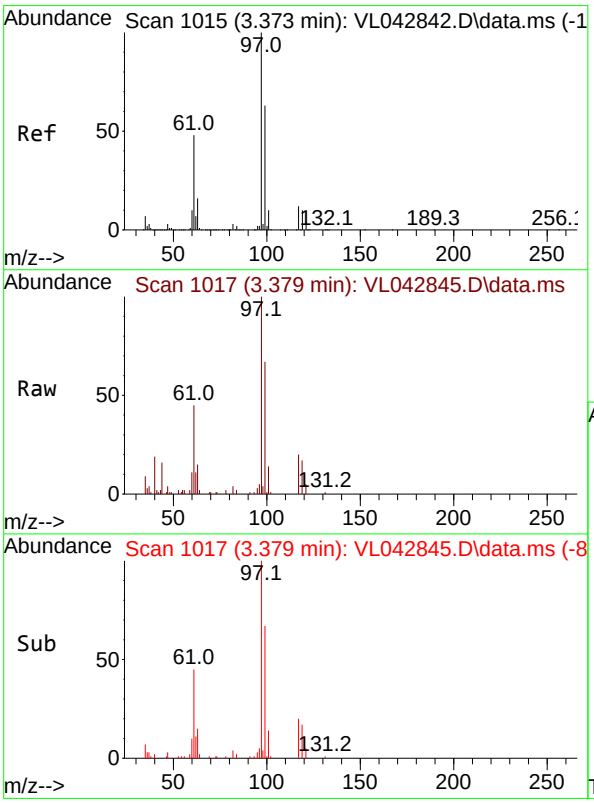
#31
cis-1,2-Dichloroethene
Concen: 0.550 ppbv
RT: 2.729 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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#

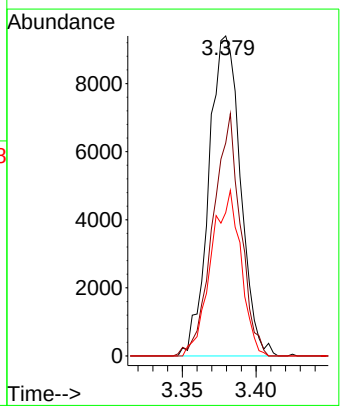


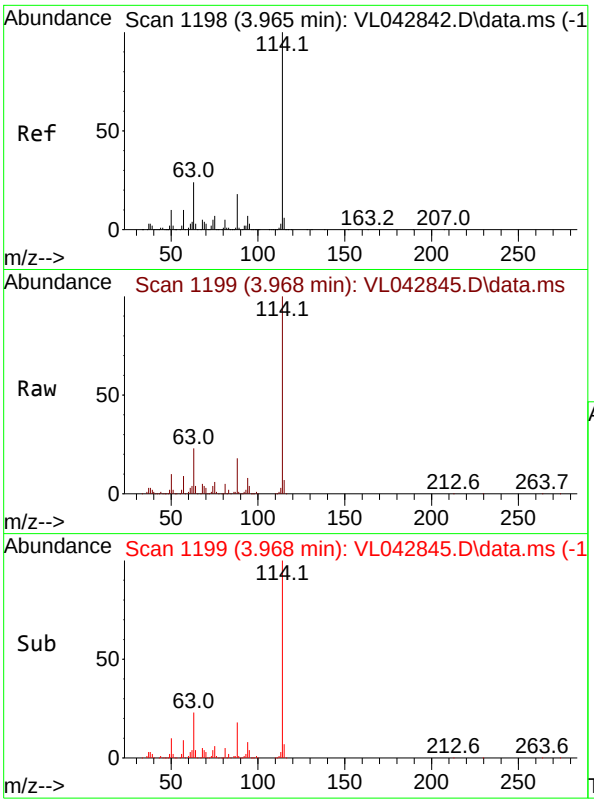


#32
1,1,1-Trichloroethane
Concen: 0.494 ppbv
RT: 3.379 min Scan# 1017
Delta R.T. 0.007 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

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



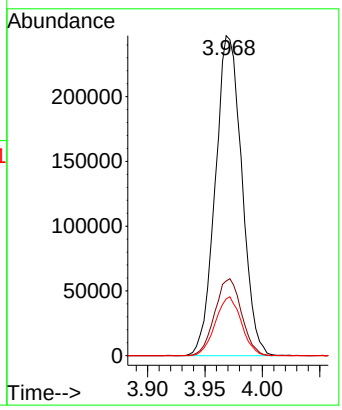


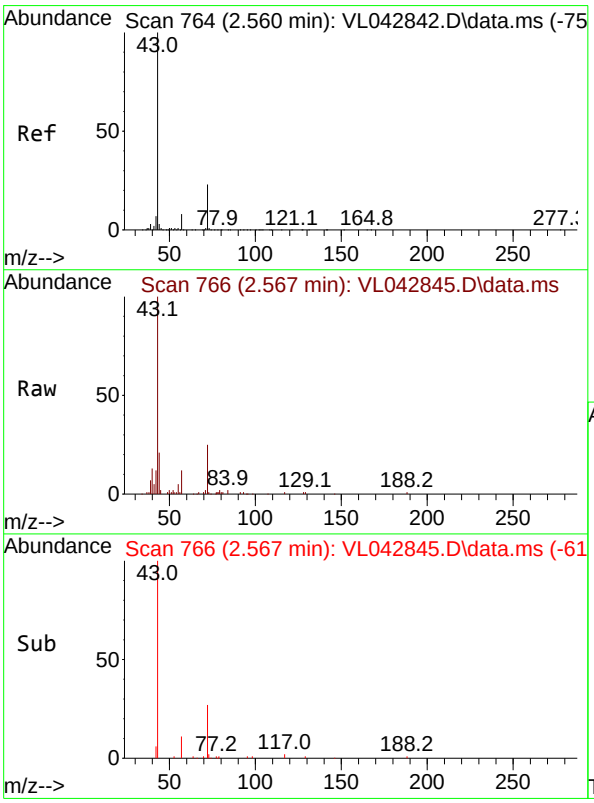
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.968 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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

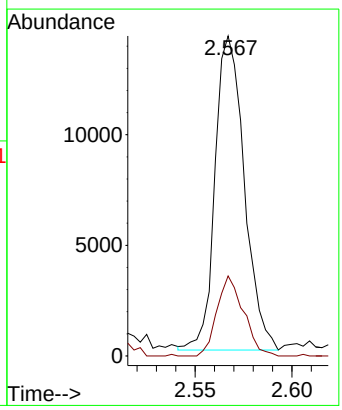


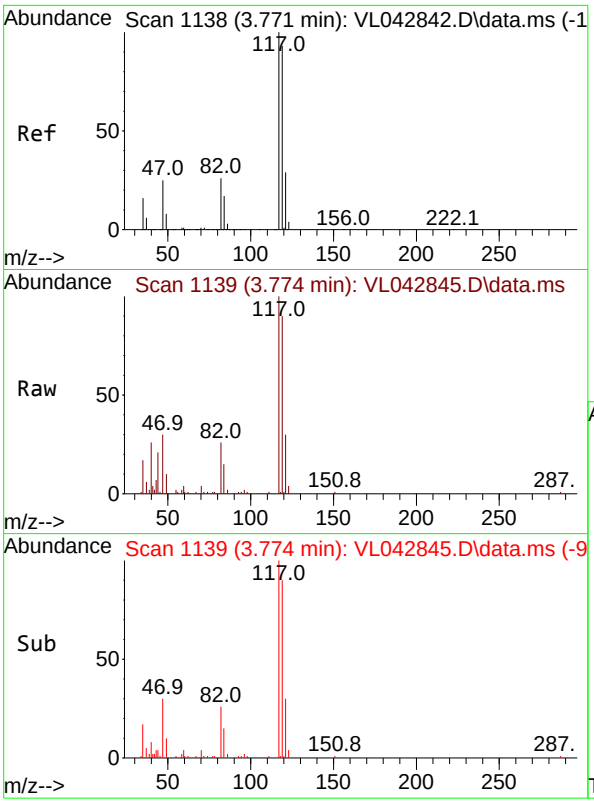


#34
2-Butanone
Concen: 0.558 ppbv
RT: 2.567 min Scan# 766
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 43 Resp: 14923

Ion	Ratio	Lower	Upper
43	100		
72	23.3	18.6	28.0



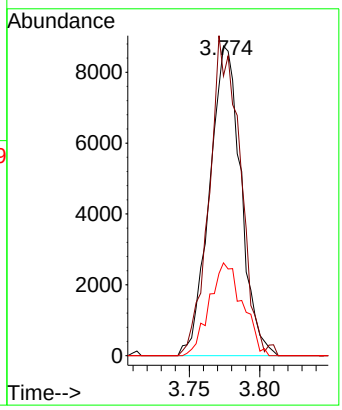


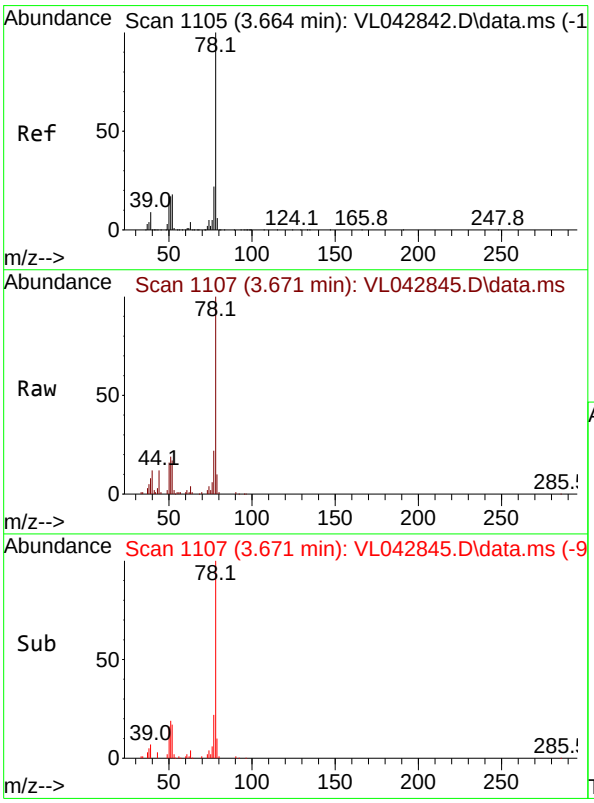
#35
Carbon Tetrachloride
Concen: 0.494 ppbv
RT: 3.774 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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

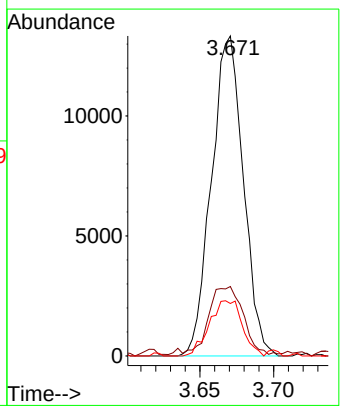


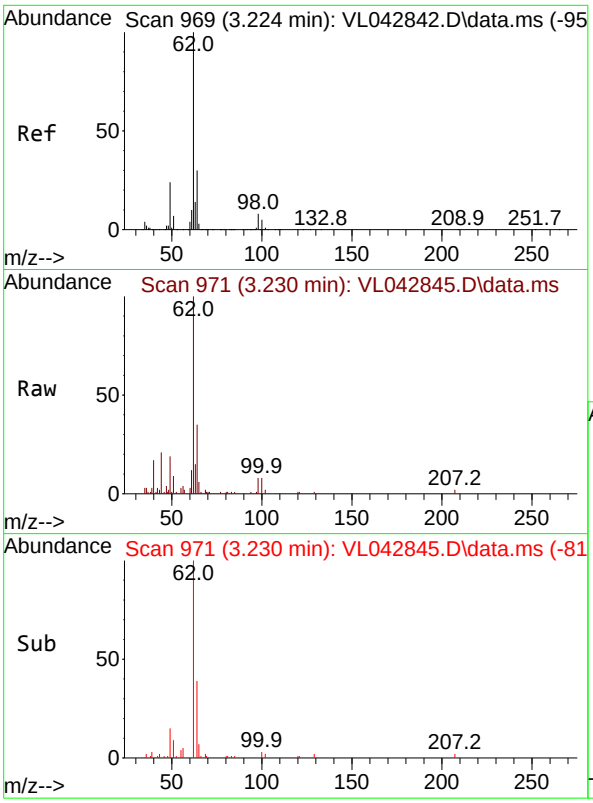


#36
Benzene
Concen: 0.529 ppbv
RT: 3.671 min Scan# 1107
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

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



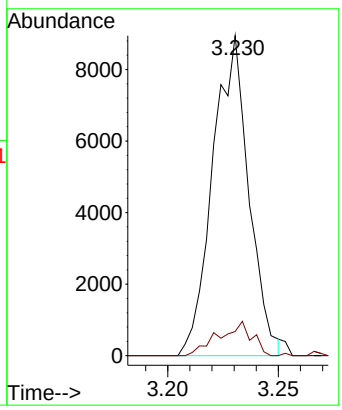


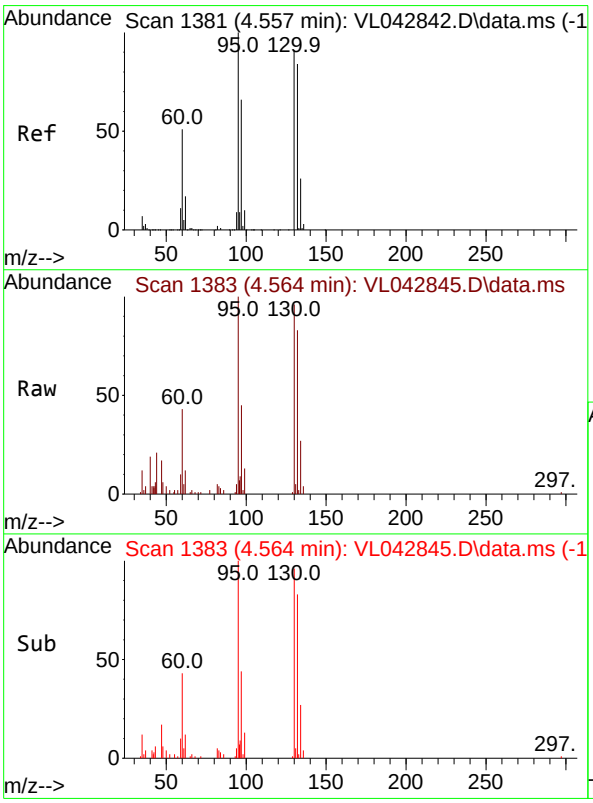
#37
1,2-Dichloroethane
Concen: 0.512 ppbv
RT: 3.230 min Scan# 9
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 62 Resp: 10141

Ion	Ratio	Lower	Upper
62	100		
98	10.0	5.9	8.9#

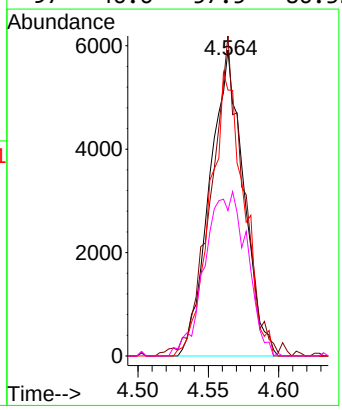


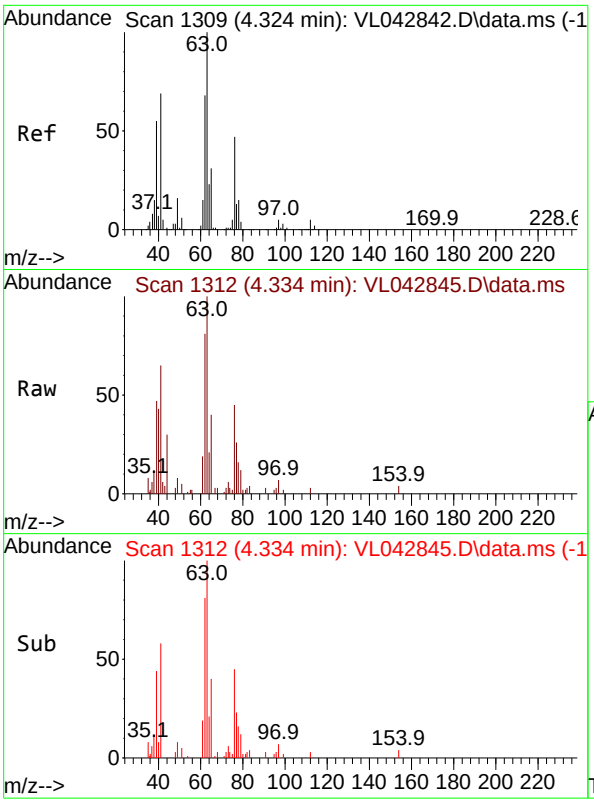


#38
Trichloroethene
Concen: 0.572 ppbv
RT: 4.564 min Scan# 1383
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

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#



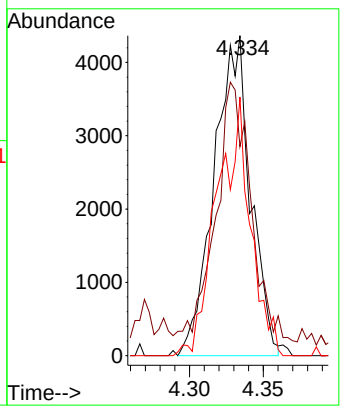


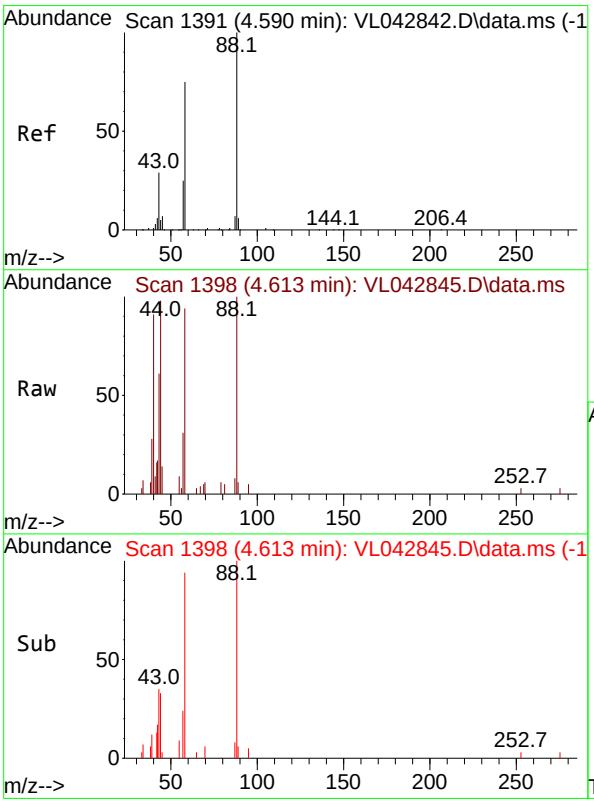
#39
1,2-Dichloropropane
Concen: 0.541 ppbv
RT: 4.334 min Scan# 1
Delta R.T. 0.010 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 63 Resp: 7491

Ion	Ratio	Lower	Upper
63	100		
41	57.8	55.0	82.4
62	79.7	54.4	81.6

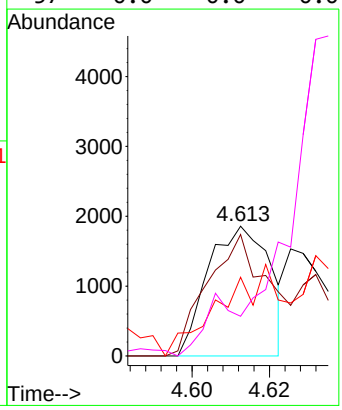


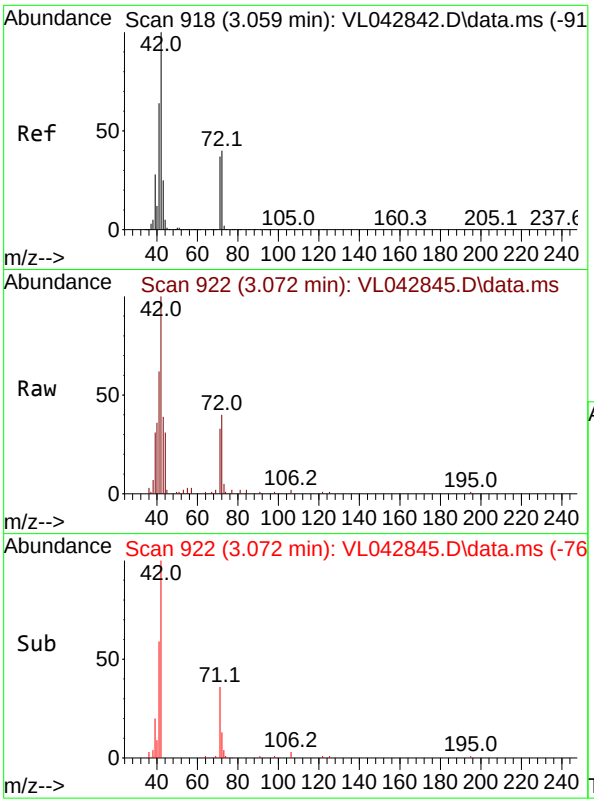


#40
1,4-Dioxane
Concen: 0.318 ppbv
RT: 4.613 min Scan# 1398
Delta R.T. 0.023 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

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



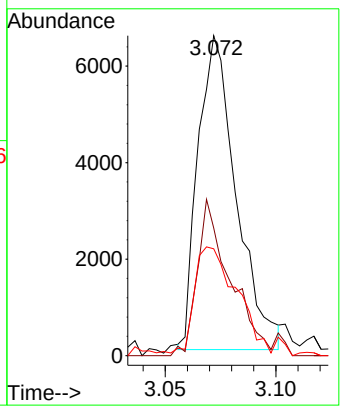


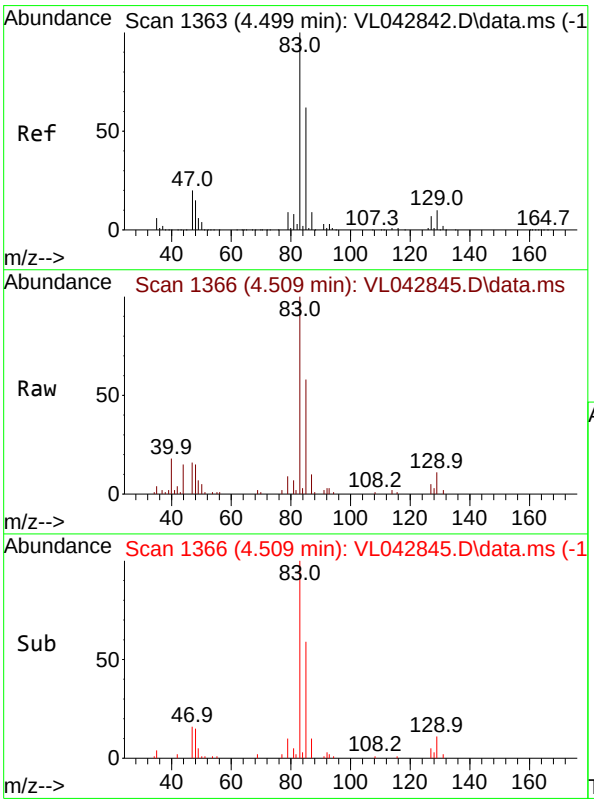
#41
Tetrahydrofuran
Concen: 0.525 ppbv
RT: 3.072 min Scan# 9
Delta R.T. 0.013 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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

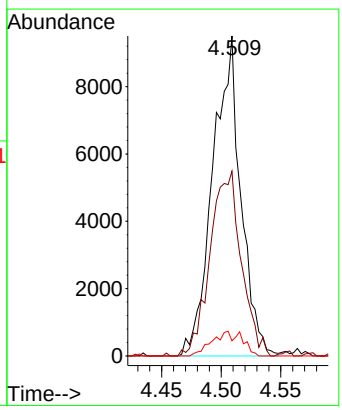


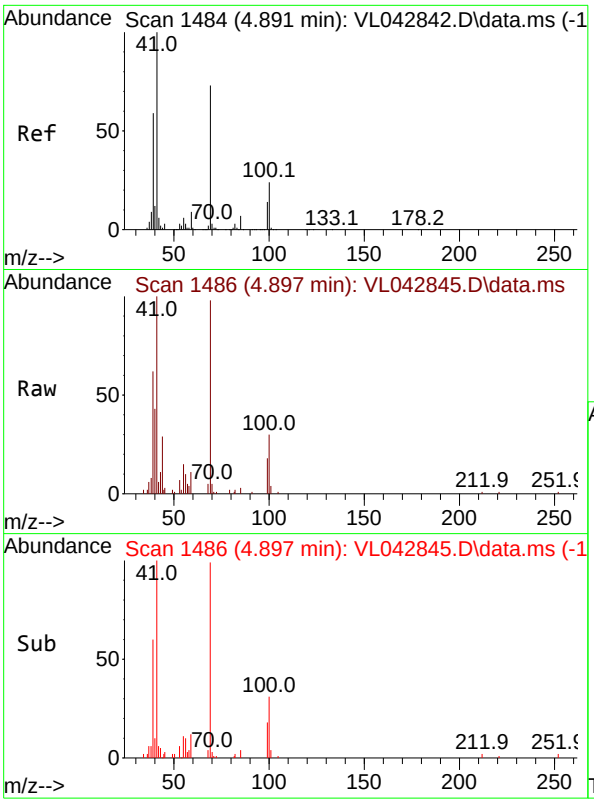


#42
Bromodichloromethane
Concen: 0.527 ppbv
RT: 4.509 min Scan# 1366
Delta R.T. 0.010 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

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#



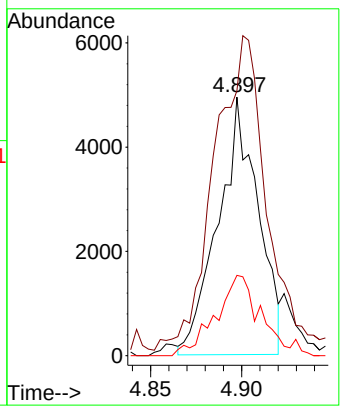


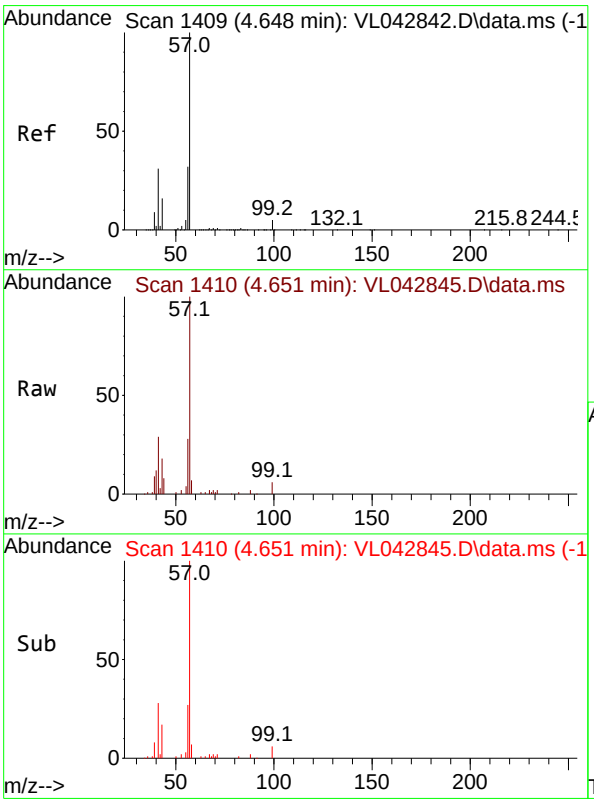
#43
Methyl Methacrylate
Concen: 0.484 ppbv
RT: 4.897 min Scan# 14
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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

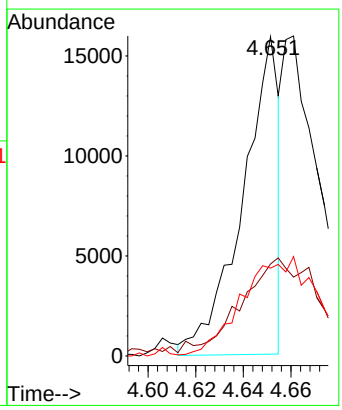


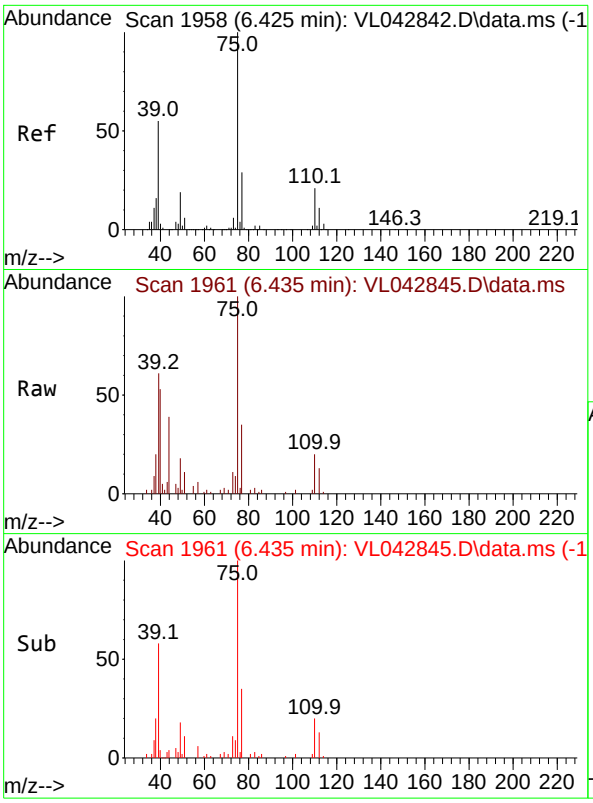


#44
2,2,4-Trimethylpentane
Concen: 0.263 ppbv
RT: 4.651 min Scan# 1410
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

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#



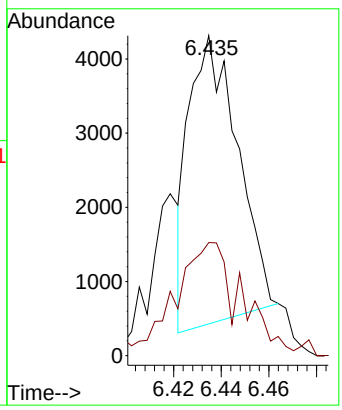


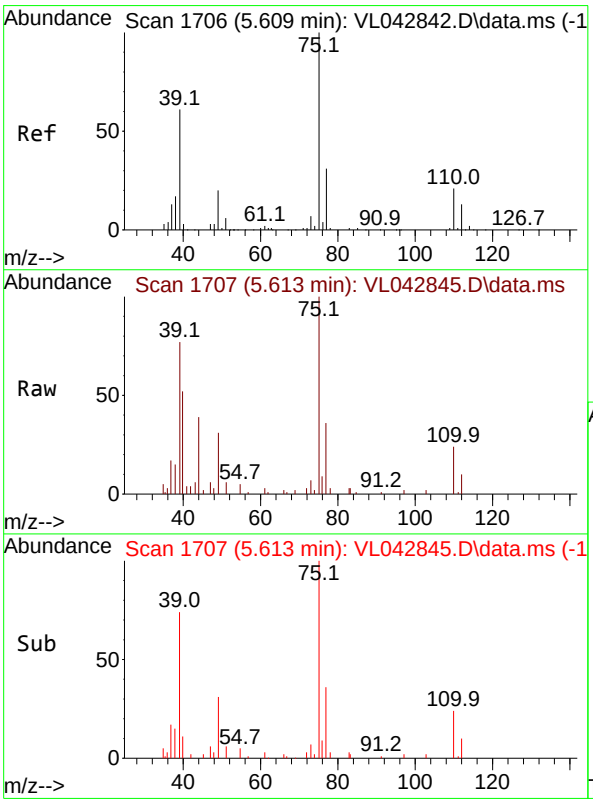
#45
t-1,3-Dichloropropene
Concen: 0.312 ppbv
RT: 6.435 min Scan# 1
Delta R.T. 0.010 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 75 Resp: 5507

Ion	Ratio	Lower	Upper
75	100		
77	35.4	23.8	35.6

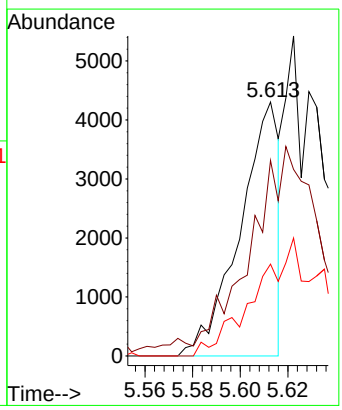


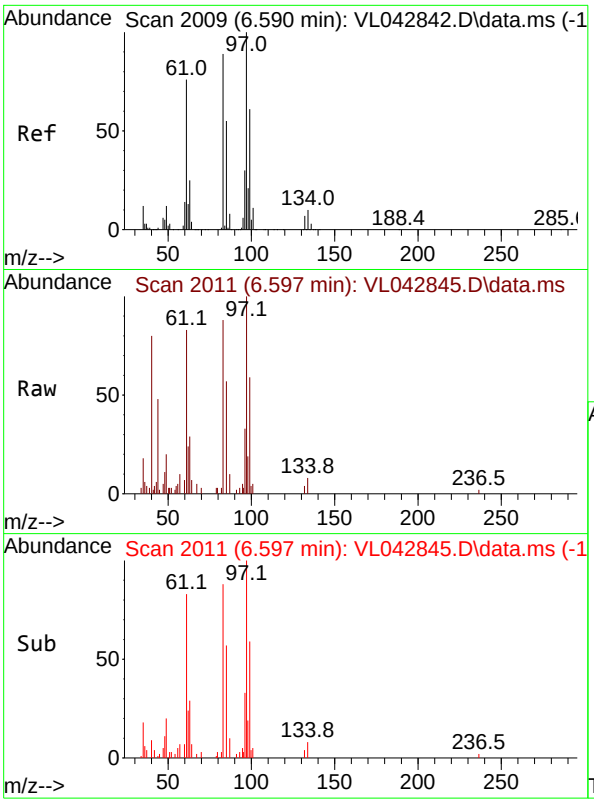


#46
cis-1,3-Dichloropropene
Concen: 0.221 ppbv
RT: 5.613 min Scan# 1707
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

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



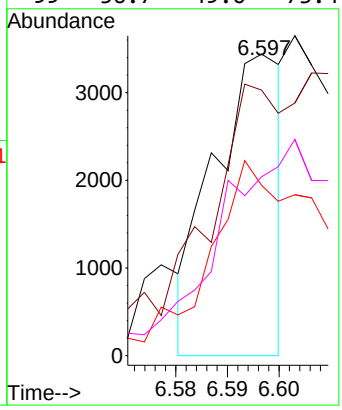


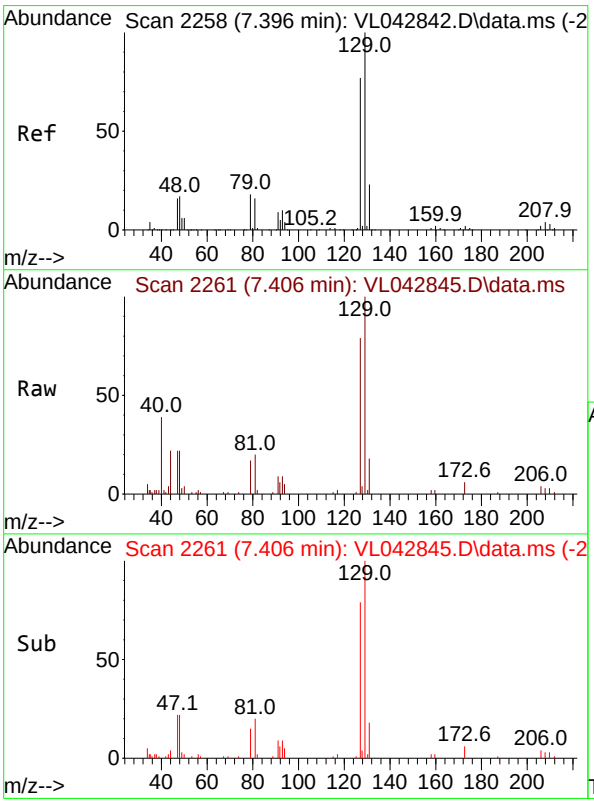
#47
1,1,2-Trichloroethane
Concen: 0.214 ppbv
RT: 6.597 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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

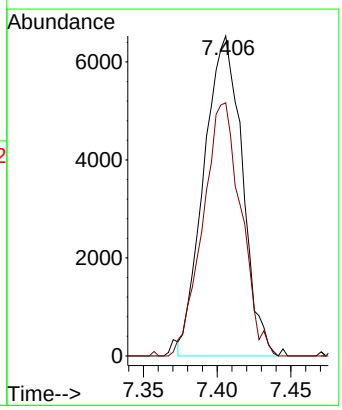


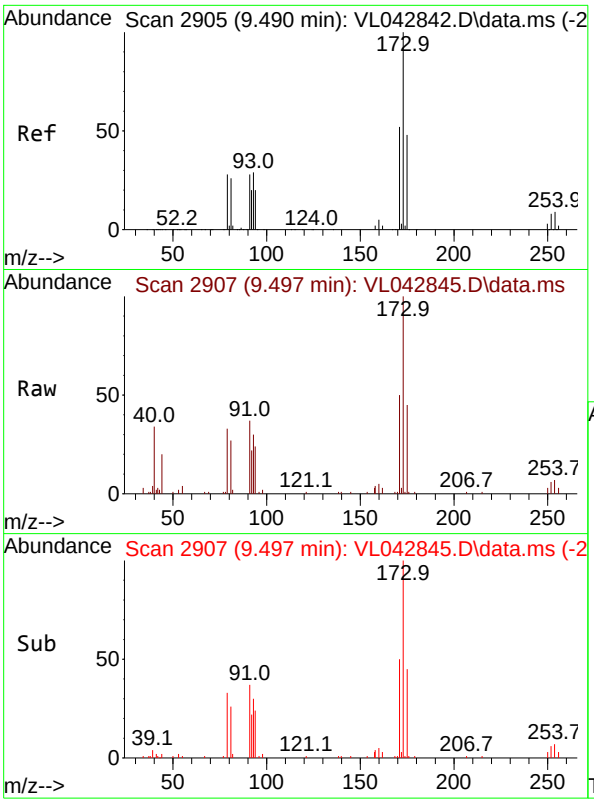


#48
Dibromochloromethane
Concen: 0.497 ppbv
RT: 7.406 min Scan# 2261
Delta R.T. 0.010 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion:129 Resp: 11805

Ion	Ratio	Lower	Upper
129	100		
127	79.1	39.4	118.2



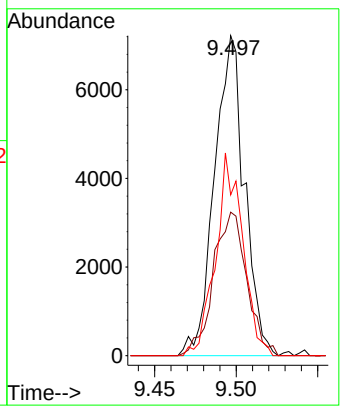


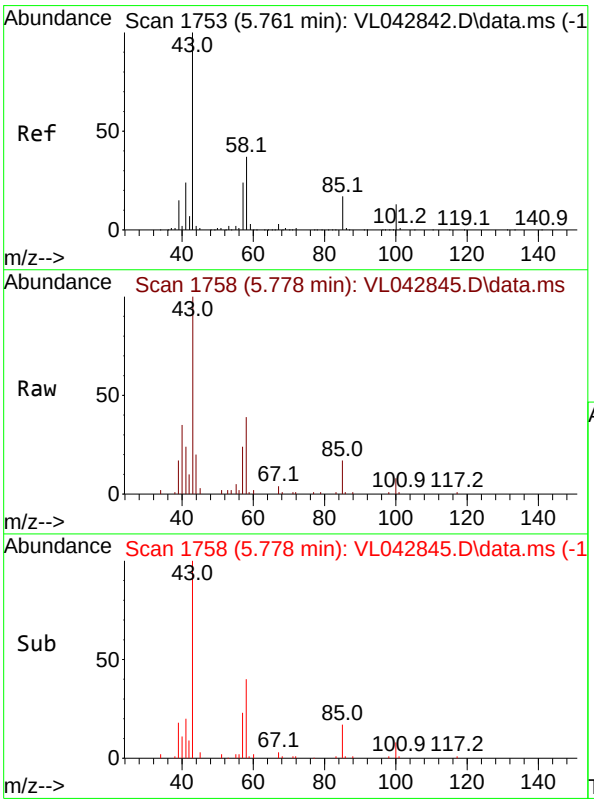
#49
Bromoform
Concen: 0.471 ppbv
RT: 9.497 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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

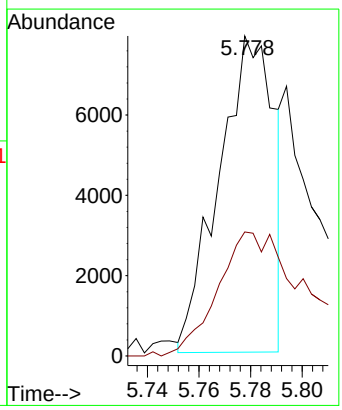


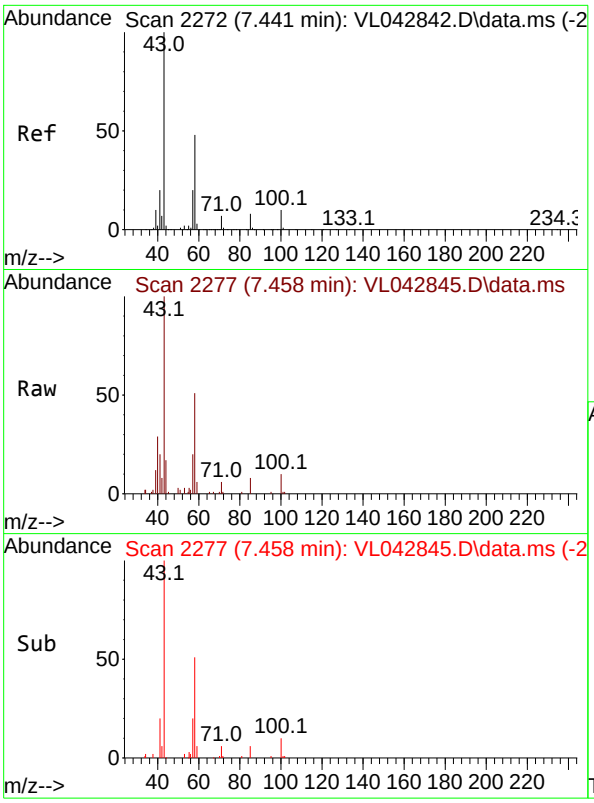


#50
4-Methyl-2-Pentanone
Concen: 0.321 ppbv
RT: 5.778 min Scan# 1758
Delta R.T. 0.016 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 43 Resp: 11657

Ion	Ratio	Lower	Upper
43	100		
58	66.0	29.8	44.8#



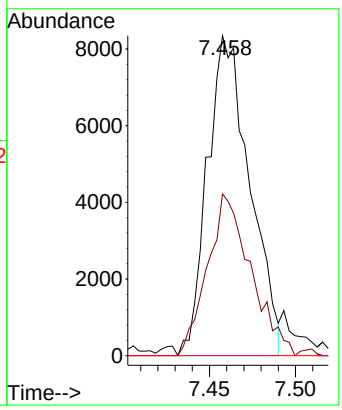


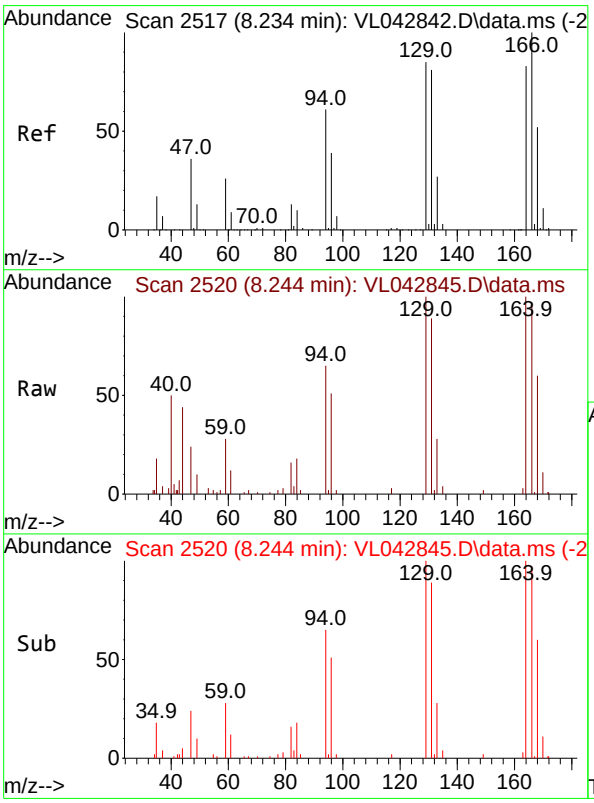
#51
2-Hexanone
Concen: 0.503 ppbv
RT: 7.458 min Scan# 2
Delta R.T. 0.016 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

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#

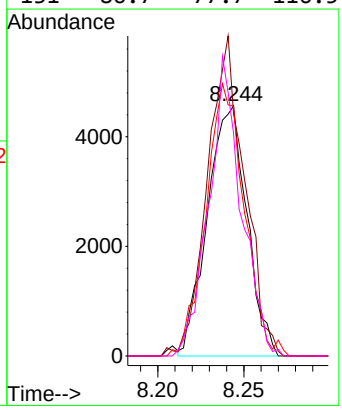


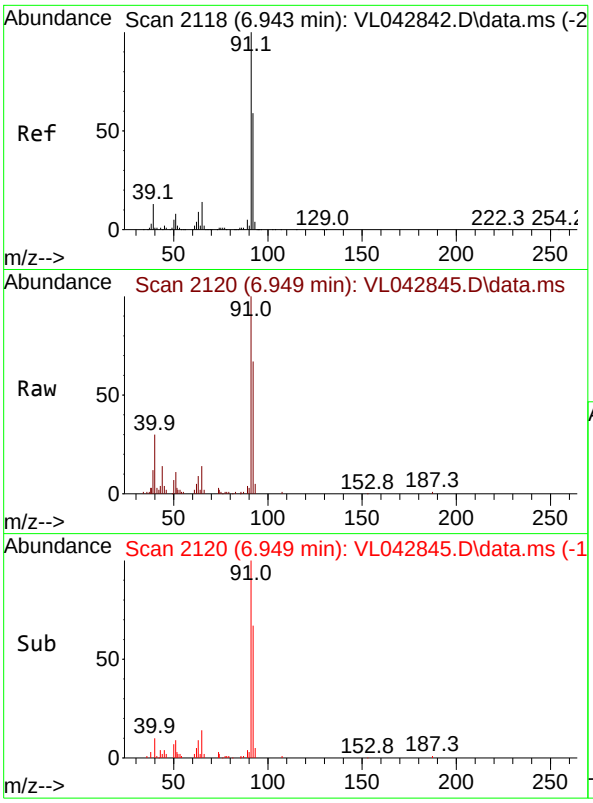


#52
Tetrachloroethene
Concen: 0.531 ppbv
RT: 8.244 min Scan# 2520
Delta R.T. 0.010 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

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



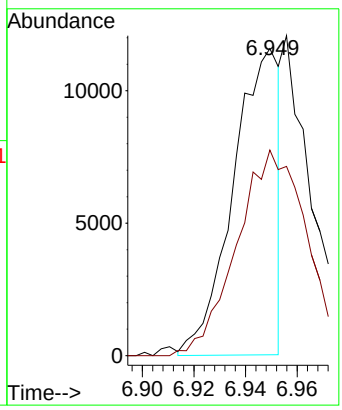


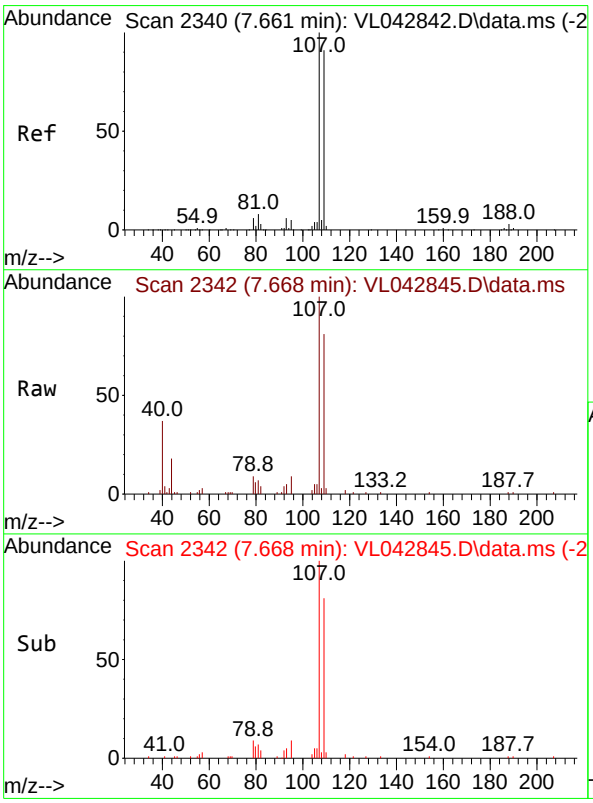
#53
Toluene
Concen: 0.318 ppbv
RT: 6.949 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 91 Resp: 14358

Ion	Ratio	Lower	Upper
91	100		
92	104.5	47.8	71.6#

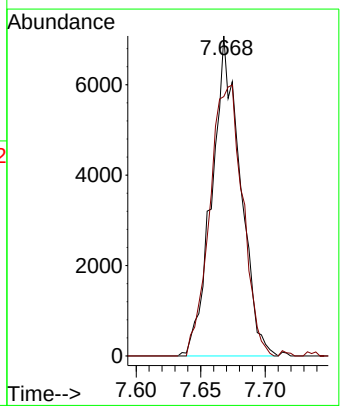


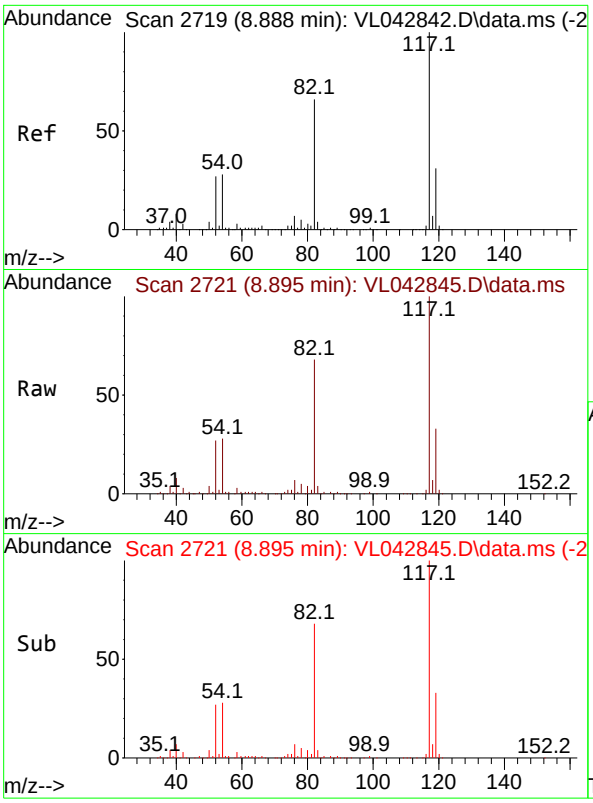


#54
1,2-Dibromoethane
Concen: 0.507 ppbv
RT: 7.668 min Scan# 2342
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion:107 Resp: 10873

Ion	Ratio	Lower	Upper
107	100		
109	81.0	72.5	108.7



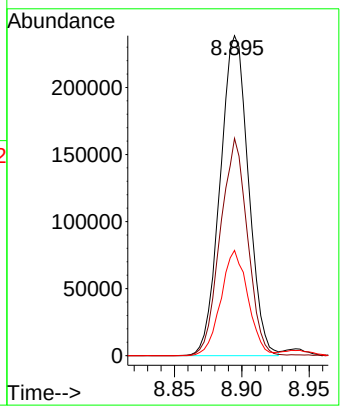


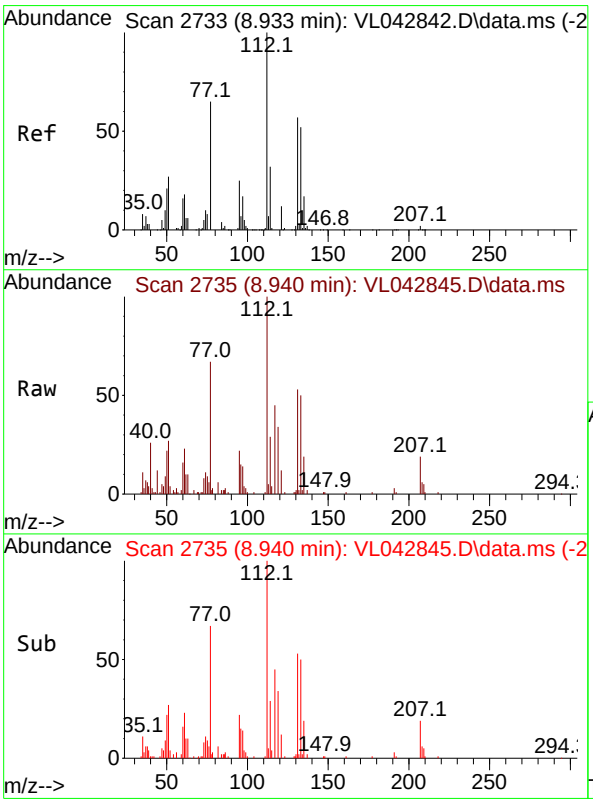
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.895 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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

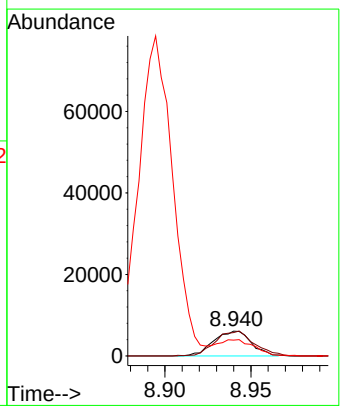


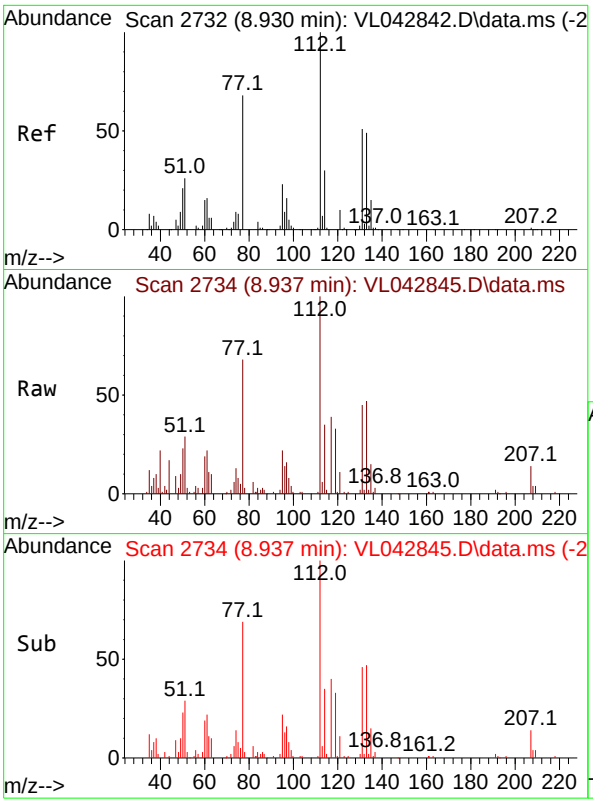


#56
1,1,1,2-Tetrachloroethane
Concen: 0.517 ppbv
RT: 8.940 min Scan# 2735
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

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#



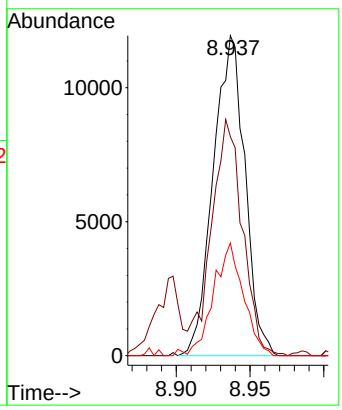


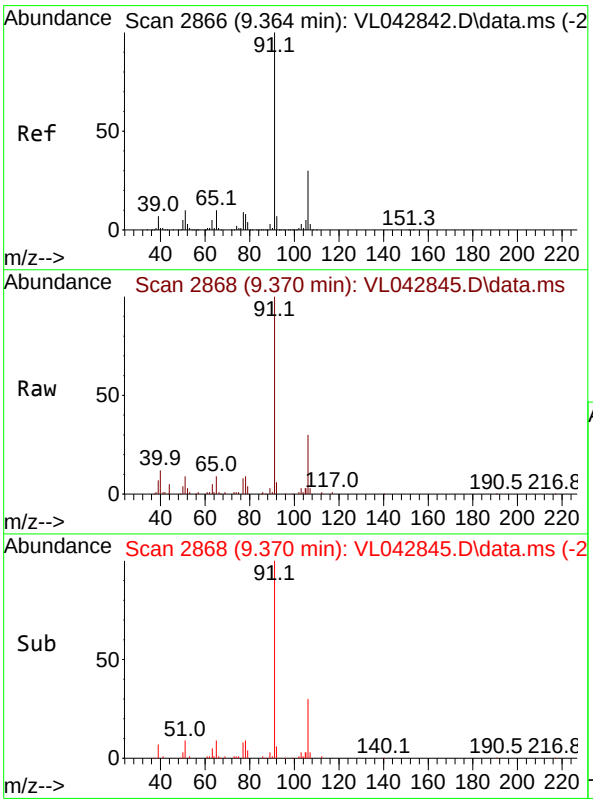
#57
Chlorobenzene
Concen: 0.539 ppbv
RT: 8.937 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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#

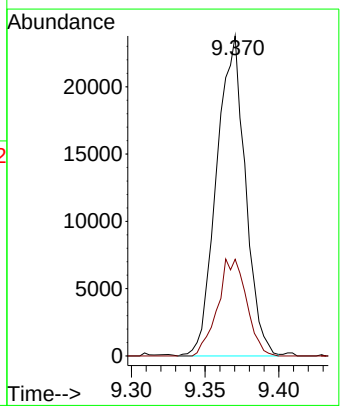


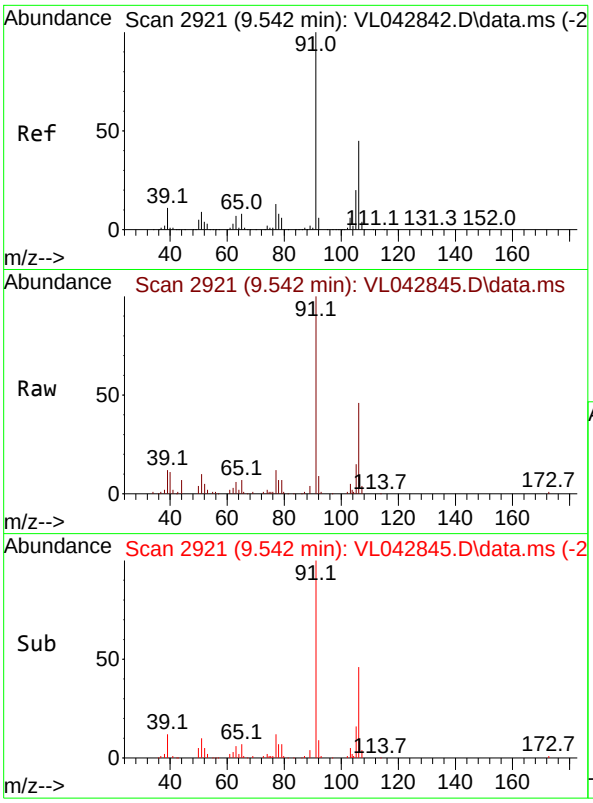


#58
Ethyl Benzene
Concen: 0.525 ppbv
RT: 9.370 min Scan# 2868
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 91 Resp: 32261

Ion	Ratio	Lower	Upper
91	100		
106	30.2	23.9	35.9



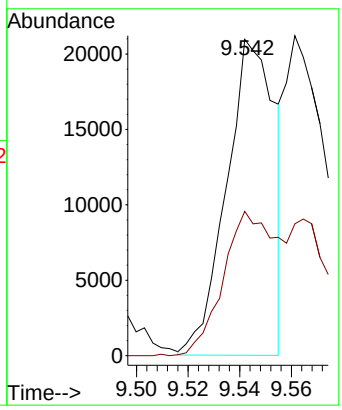


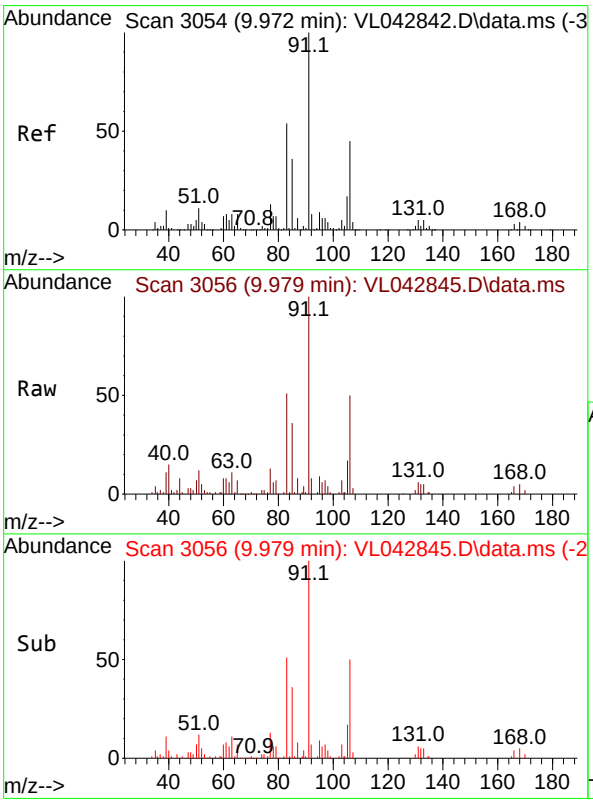
#59
m/p-Xylene
Concen: 0.561 ppbv
RT: 9.542 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 91 Resp: 27059

Ion	Ratio	Lower	Upper
91	100		
106	87.4	0.0	0.0#

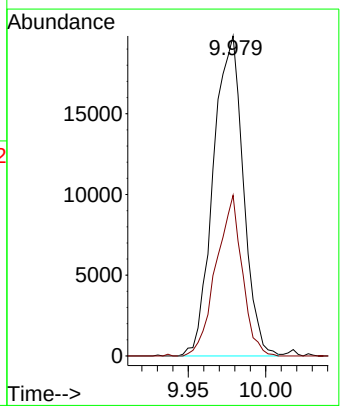


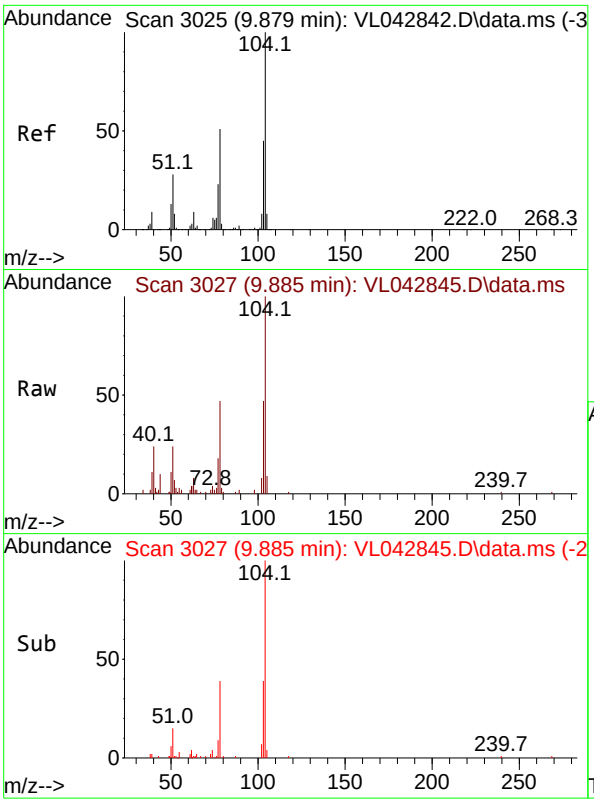


#60
o-Xylene
Concen: 0.551 ppbv
RT: 9.979 min Scan# 3056
Delta R.T. 0.007 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion: 91 Resp: 26662

Ion	Ratio	Lower	Upper
91	100		
106	43.8	21.8	65.4



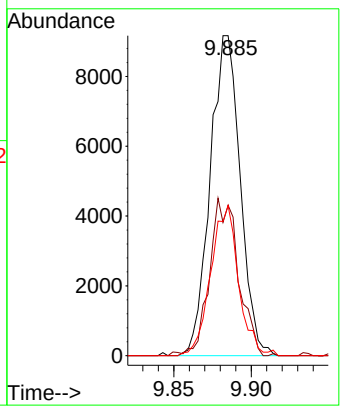


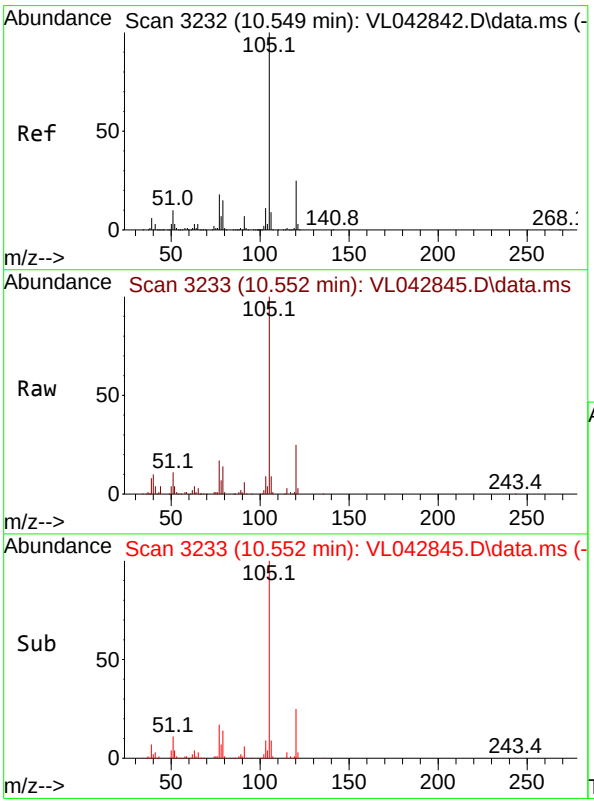
#61
Styrene
Concen: 0.546 ppbv
RT: 9.885 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

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

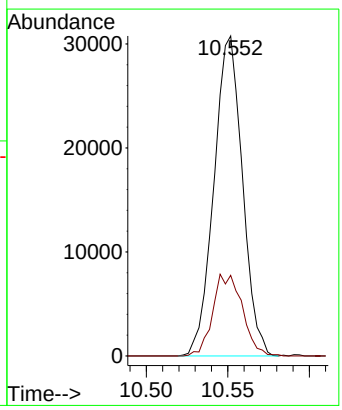


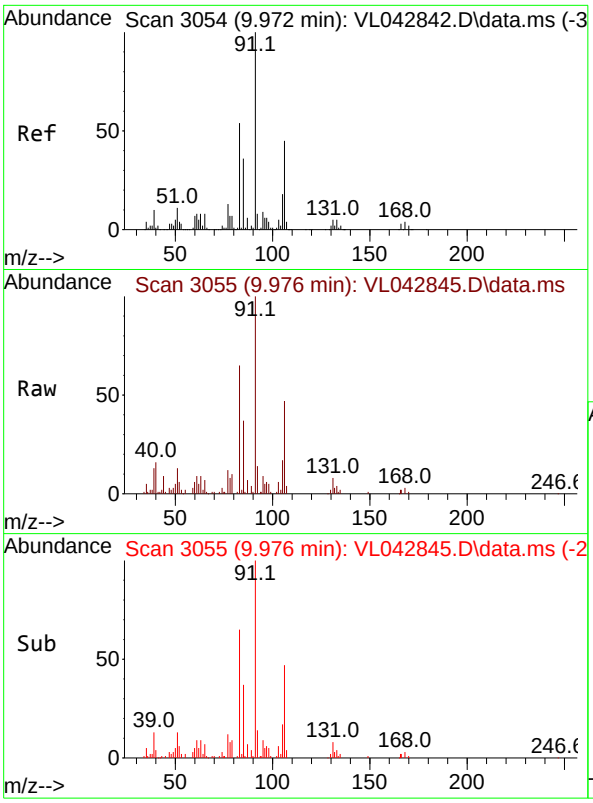


#62
Isopropylbenzene
Concen: 0.529 ppbv
RT: 10.552 min Scan# 3233
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion:105 Resp: 37401

Ion	Ratio	Lower	Upper
105	100		
120	26.5	20.6	30.8



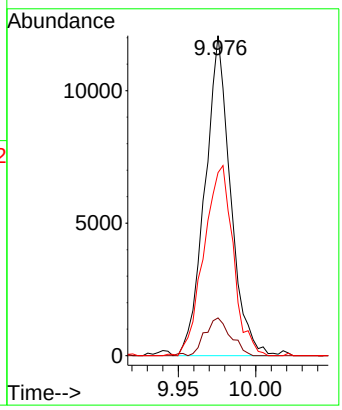


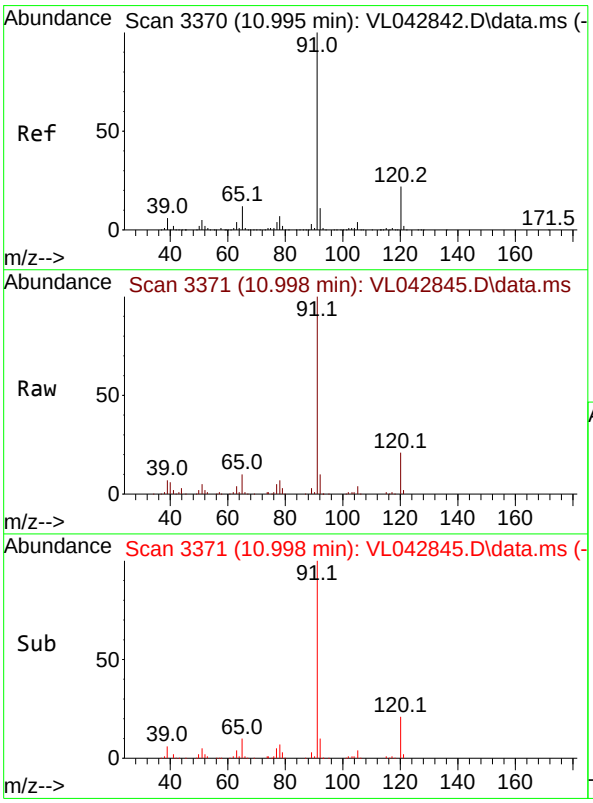
#63
1,1,2,2-Tetrachloroethane
Concen: 0.523 ppbv
RT: 9.976 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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

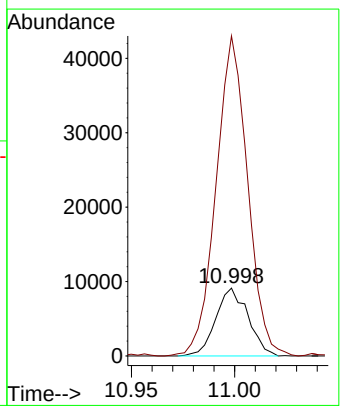


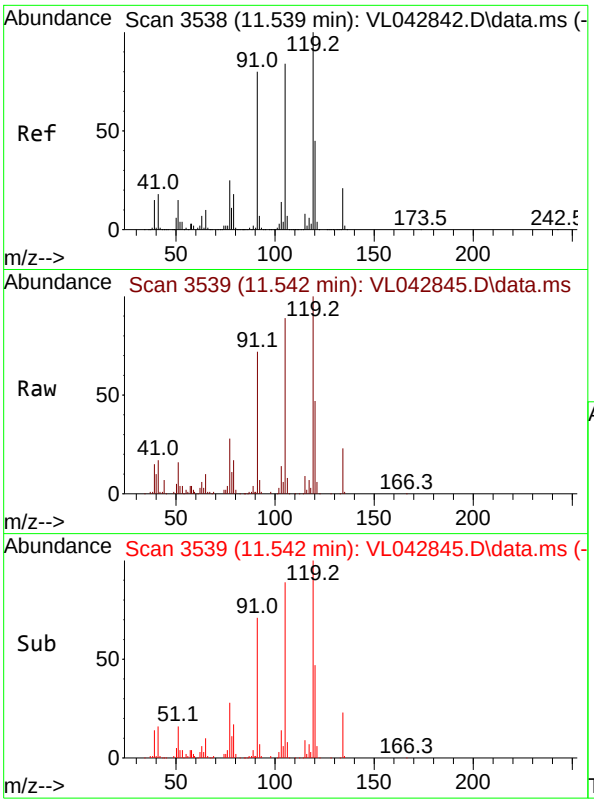


#64
n-propylbenzene
Concen: 0.550 ppbv
RT: 10.998 min Scan# 3371
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Tgt Ion:120 Resp: 9922

Ion	Ratio	Lower	Upper
120	100		
91	463.3	375.8	563.6



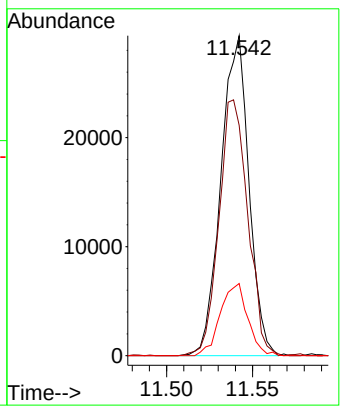


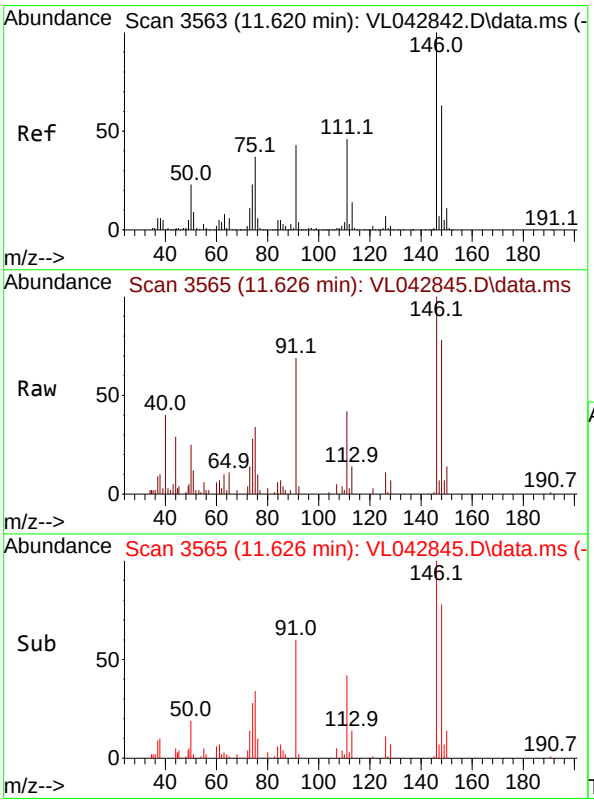
#65
tert-Butylbenzene
Concen: 0.532 ppbv
RT: 11.542 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

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

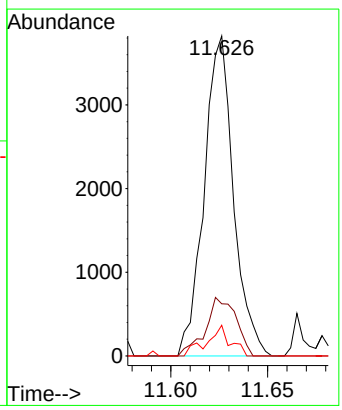


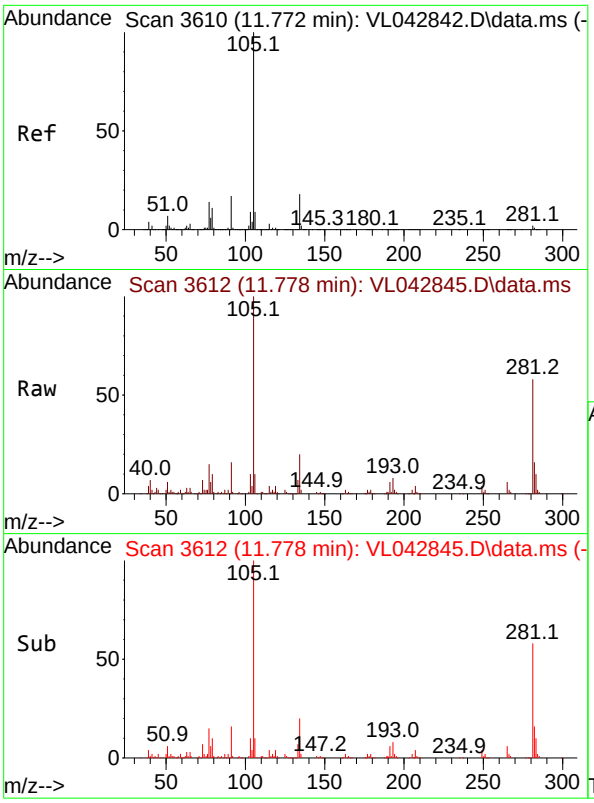


#66
Benzyl Chloride
Concen: 0.510 ppbv
RT: 11.626 min Scan# 3565
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

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#



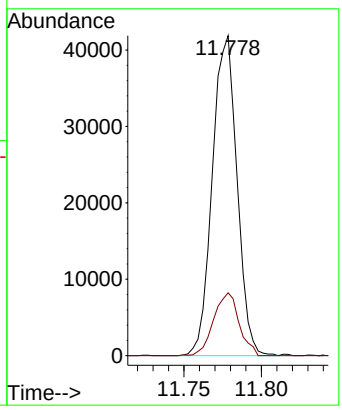


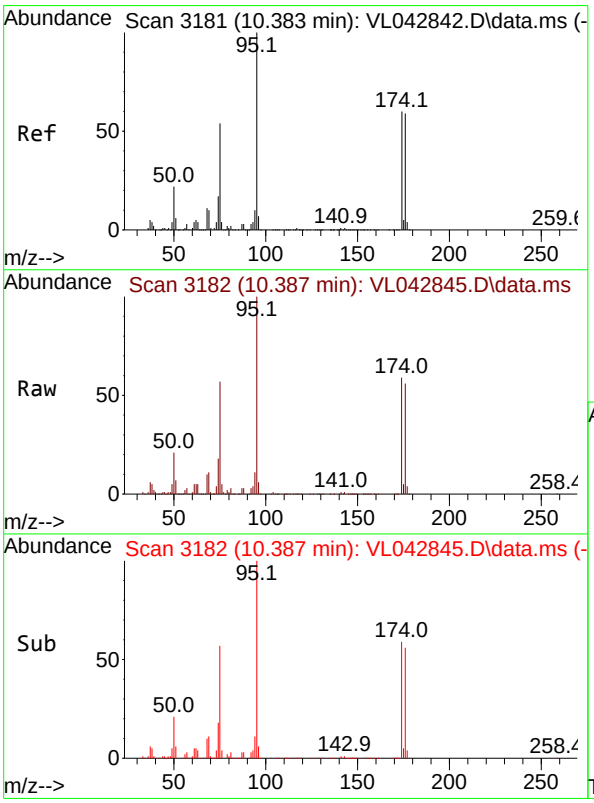
#67
sec-Butylbenzene
Concen: 0.530 ppbv
RT: 11.778 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:105 Resp: 46433

Ion	Ratio	Lower	Upper
105	100		
134	20.3	14.9	22.3

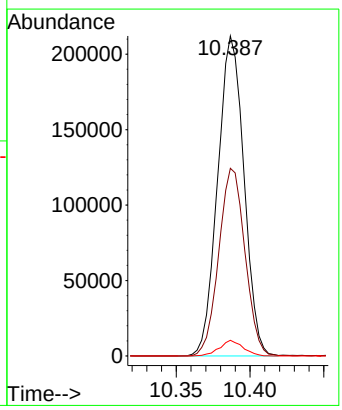


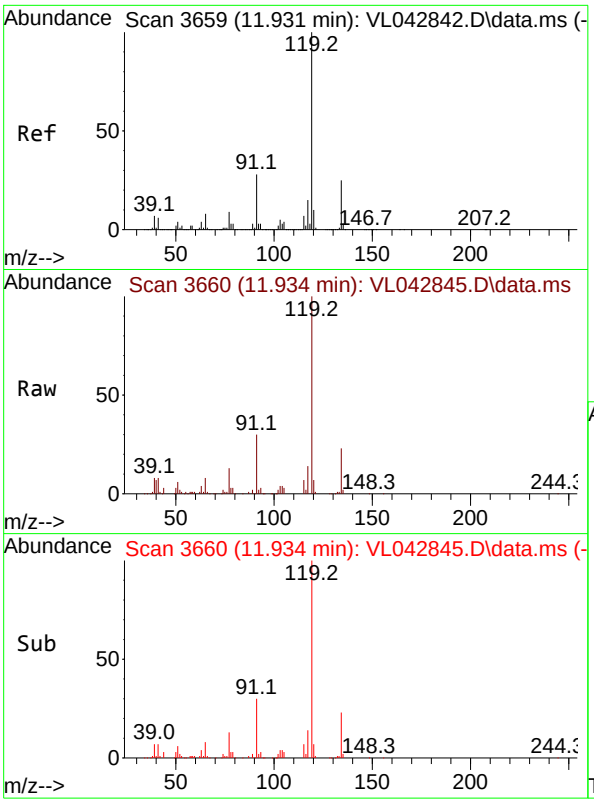


#68
1-Bromo-4-Fluorobenzene
Concen: 10.064 ppbv
RT: 10.387 min Scan# 3182
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

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



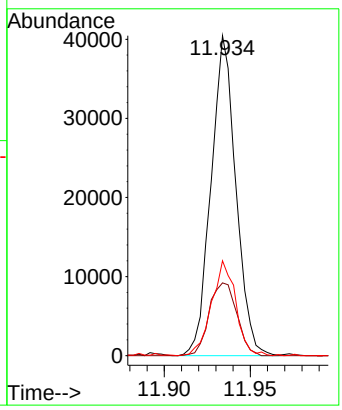


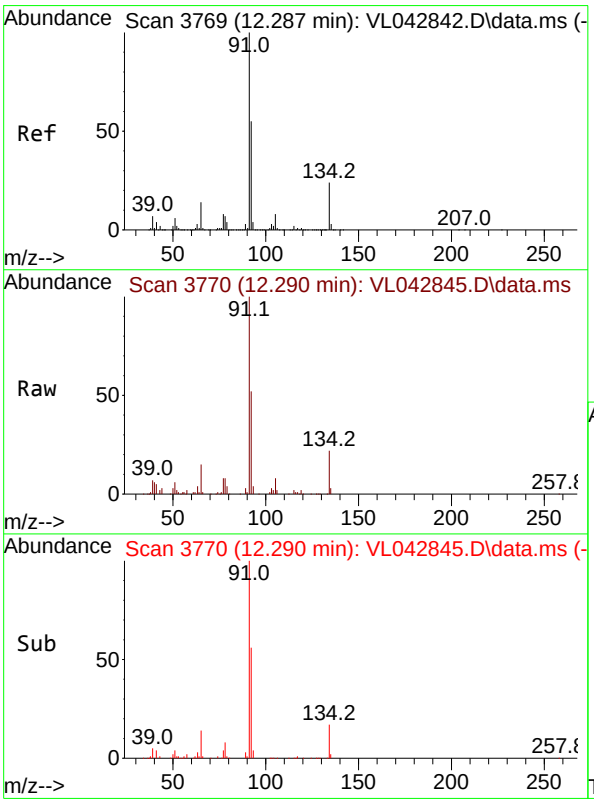
#69
p-Isopropyltoluene
Concen: 0.541 ppbv
RT: 11.934 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:119 Resp: 40686

Ion	Ratio	Lower	Upper
119	100		
134	25.4	20.6	30.8
91	29.0	22.6	34.0

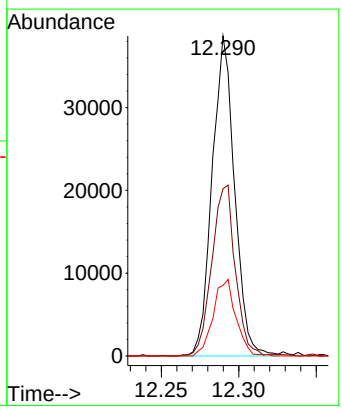


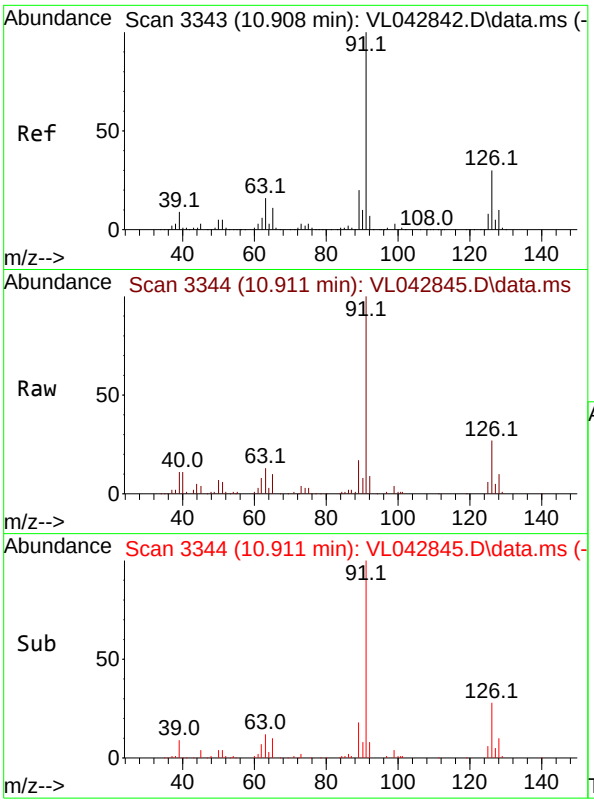


#70
n-Butylbenzene
Concen: 0.521 ppbv
RT: 12.290 min Scan# 3770
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

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



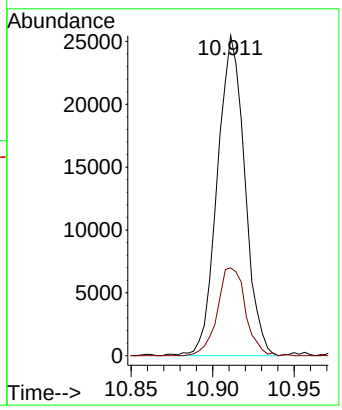


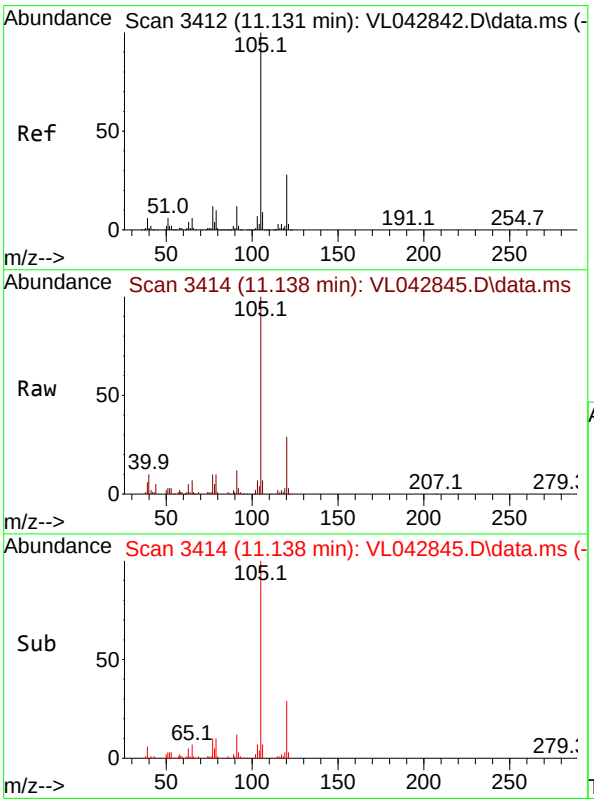
#71
2-Chlorotoluene
Concen: 0.541 ppbv
RT: 10.911 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 91 Resp: 29736

Ion	Ratio	Lower	Upper
91	100		
126	28.2	12.0	47.8

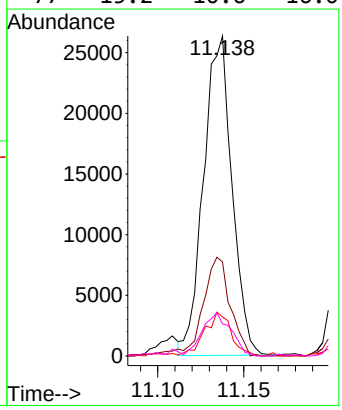


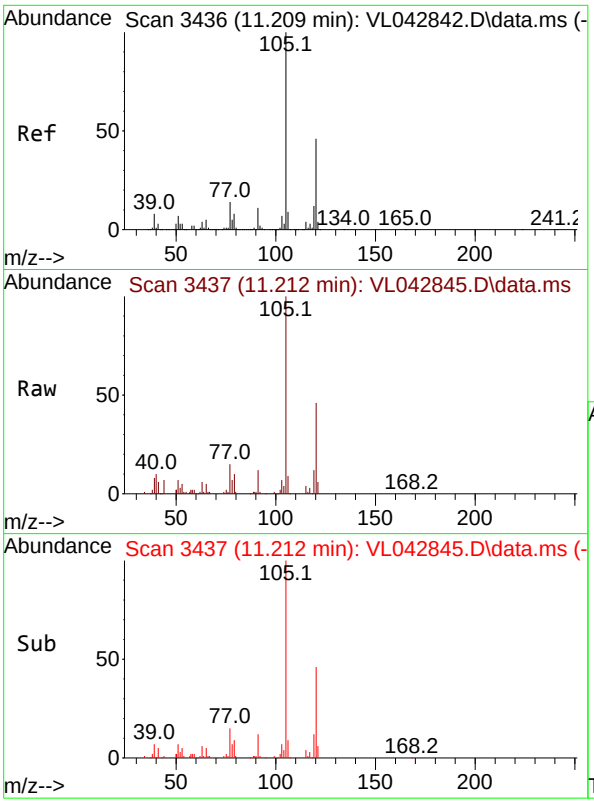


#72
4-Ethyltoluene
Concen: 0.515 ppbv
RT: 11.138 min Scan# 3414
Delta R.T. 0.007 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

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



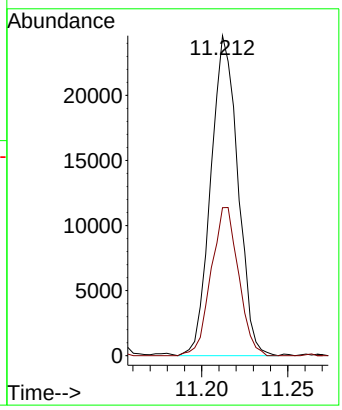


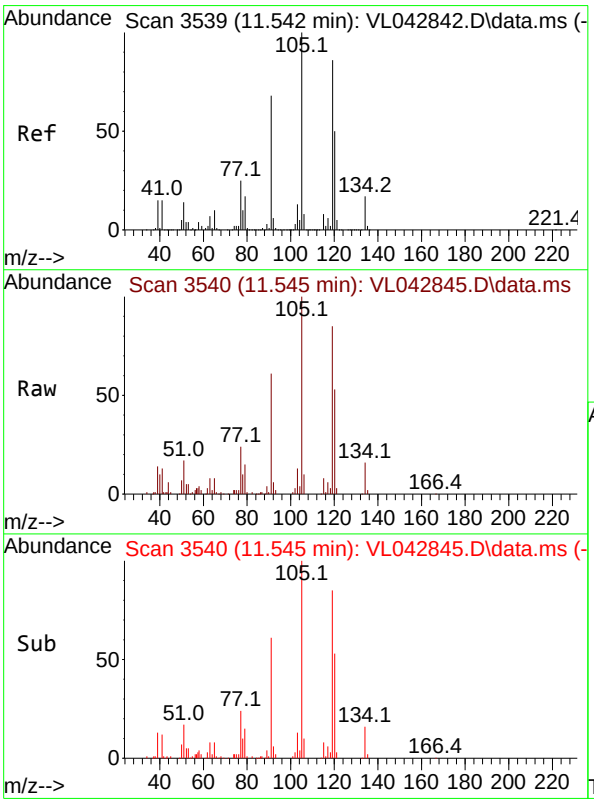
#73
1,3,5-Trimethylbenzene
Concen: 0.540 ppbv
RT: 11.212 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:105 Resp: 26942

Ion	Ratio	Lower	Upper
105	100		
120	46.2	36.6	54.8

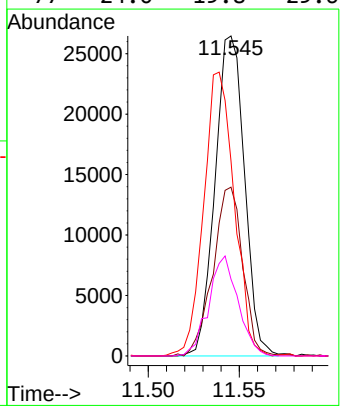


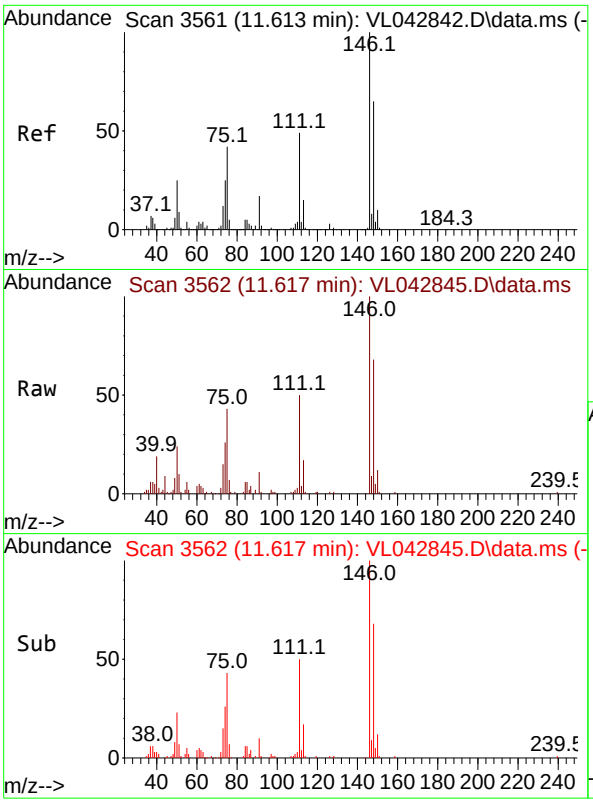


#74
1,2,4-Trimethylbenzene
Concen: 0.543 ppbv
RT: 11.545 min Scan# 3540
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

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



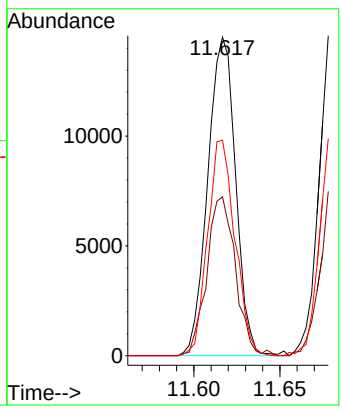


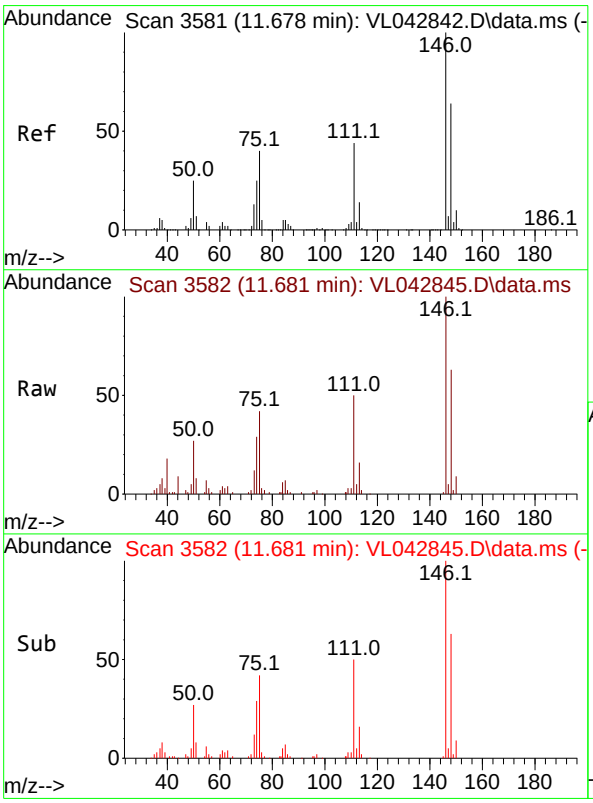
#75
1,3-Dichlorobenzene
Concen: 0.524 ppbv
RT: 11.617 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:146 Resp: 16311

Ion	Ratio	Lower	Upper
146	100		
111	51.2	23.9	71.7
148	66.5	31.4	94.0

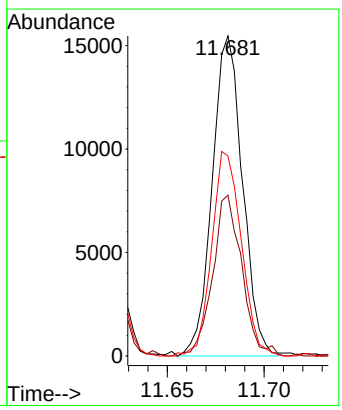


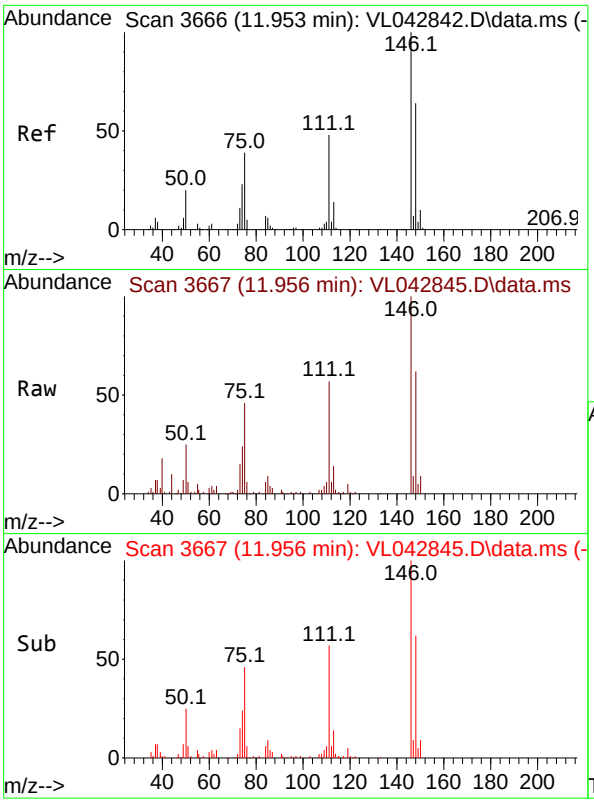


#76
1,4-Dichlorobenzene
Concen: 0.533 ppbv
RT: 11.681 min Scan# 3582
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

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



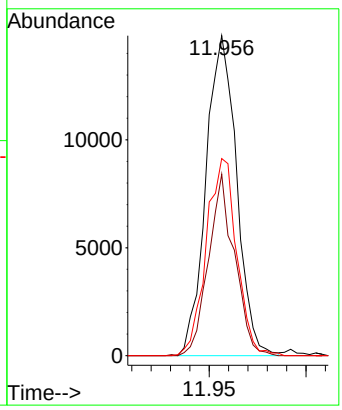


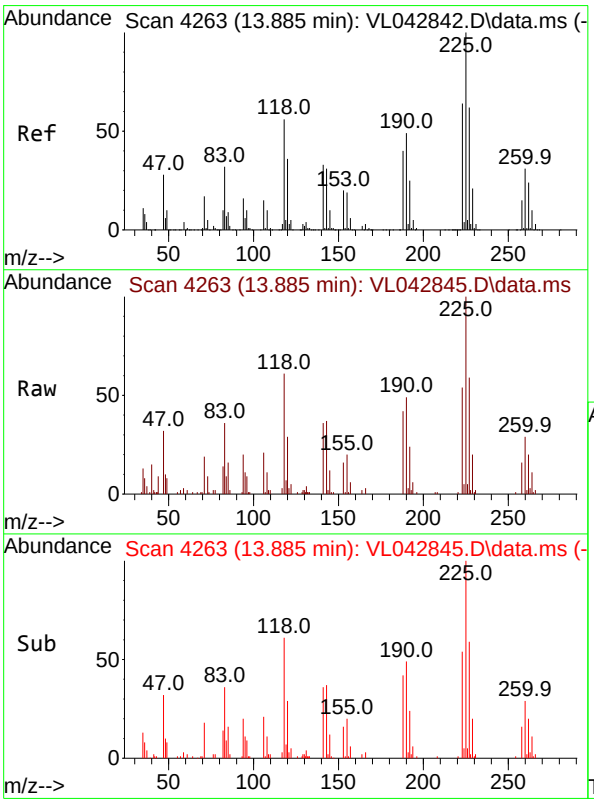
#77
1,2-Dichlorobenzene
Concen: 0.535 ppbv
RT: 11.956 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

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

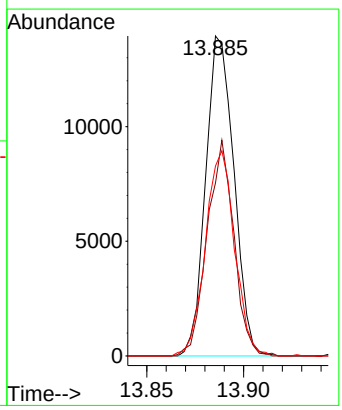


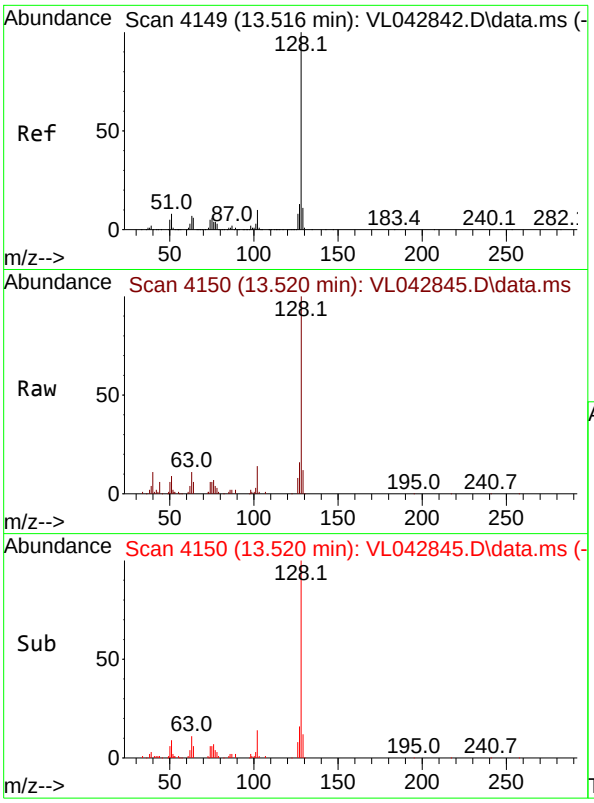


#78
Hexachloro-1,3-Butadiene
Concen: 0.567 ppbv
RT: 13.885 min Scan# 4263
Delta R.T. 0.000 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

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



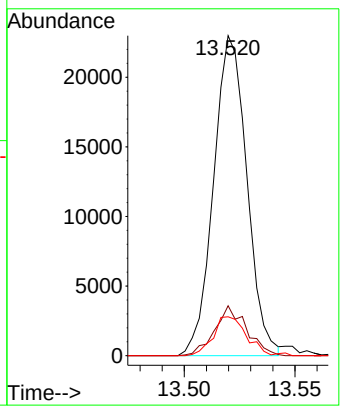


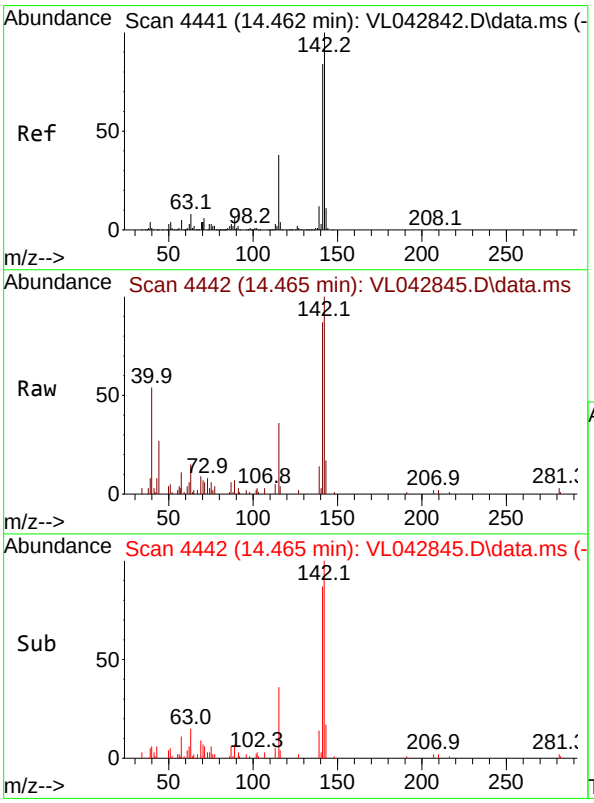
#79
Naphthalene
Concen: 0.491 ppbv
RT: 13.520 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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

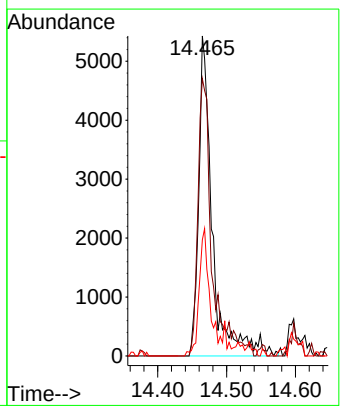


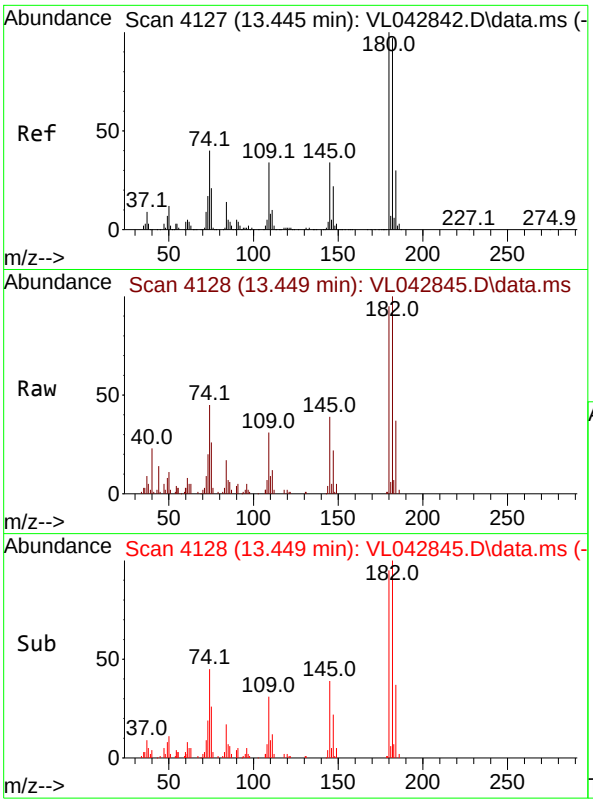


#80
Naphthalene,2-methyl-
Concen: 0.405 ppbv
RT: 14.465 min Scan# 4442
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

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



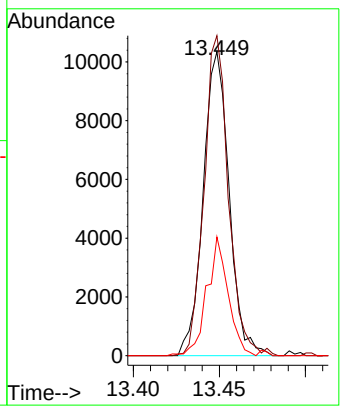


#81
1,2,4-Trichlorobenzene
Concen: 0.434 ppbv
RT: 13.449 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042845.D
Acq: 13 Aug 2025 10:17

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



Quantitation Report (Not Reviewed)

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_LFri 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

Quantitation Report (Not Reviewed)

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_LFri Aug 26 06:05:16 2022
QLast Update : Thu Aug 14 01:44:36 2025
Response via : Initial Calibration

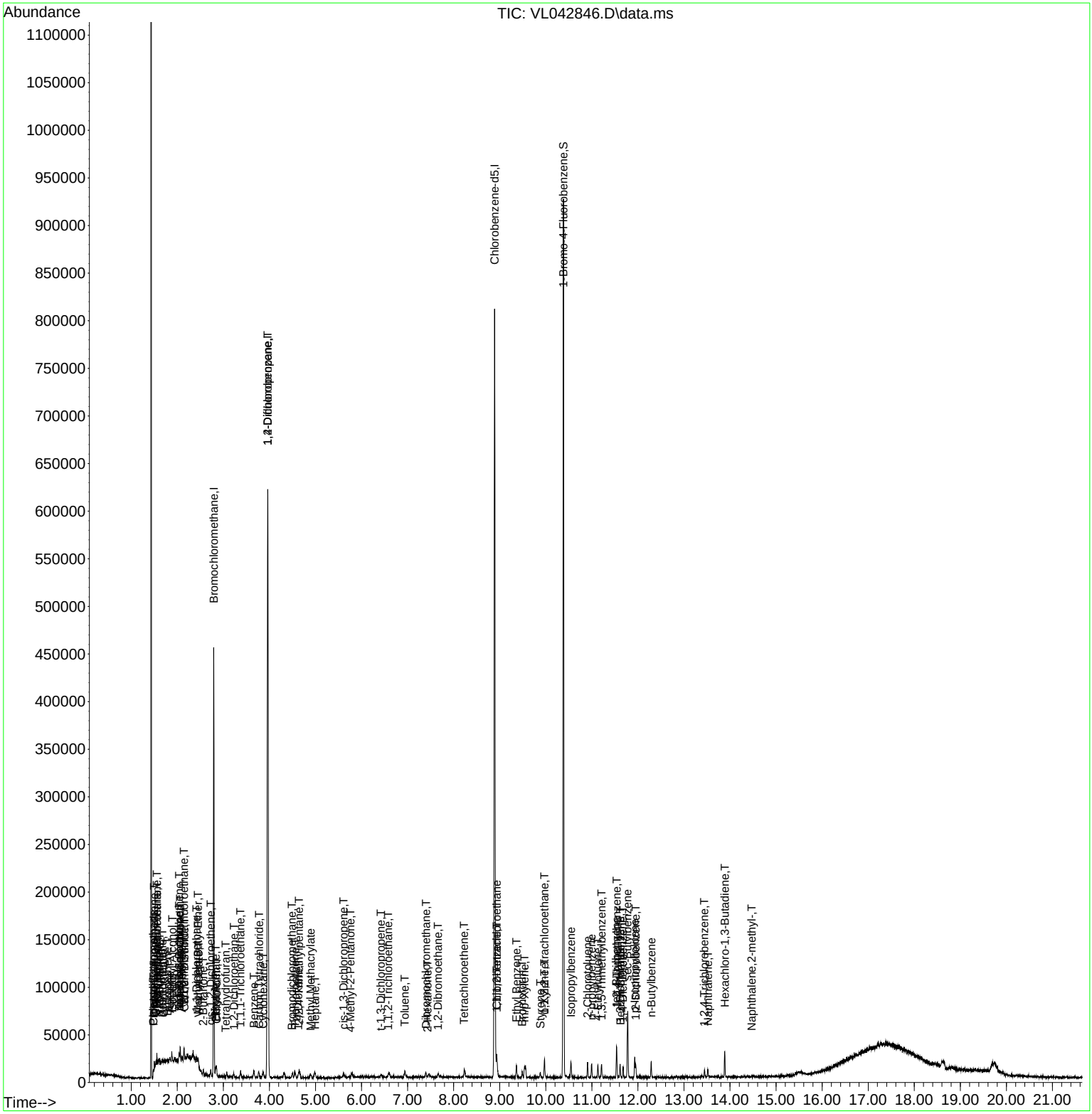
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	1454	0.067	ppbv	#	85
47) 1,1,2-Trichloroethane	6.580	97	260	0.018	ppbv	#	20
48) Dibromochloromethane	7.399	129	2052	0.088	ppbv		74
49) Bromoform	9.487	173	1909	0.099	ppbv		91
50) 4-Methyl-2-Pentanone	5.758	43	266	0.007	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

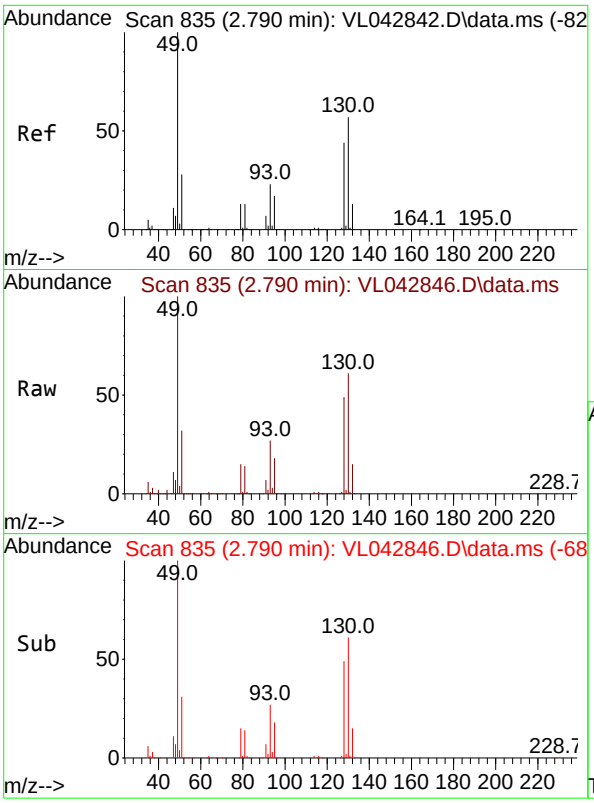
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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_LFri Aug 26 06:05:16 2022
QLast Update : Thu Aug 14 01:44:36 2025
Response via : Initial Calibration



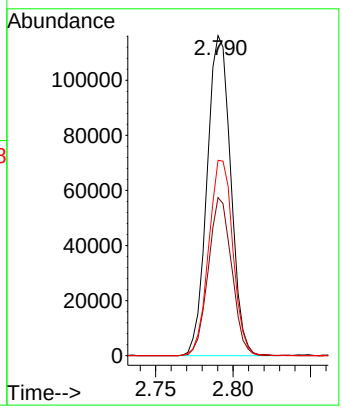


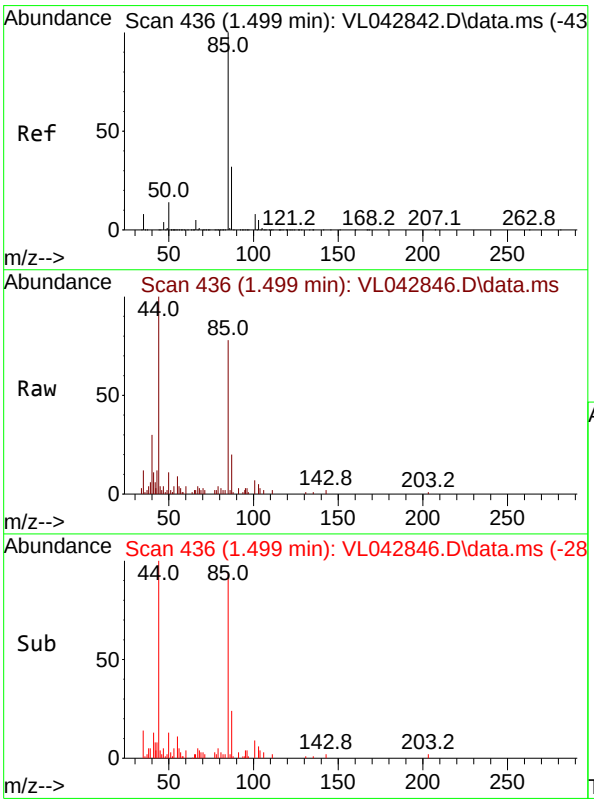
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 49 Resp: 123711

Ion	Ratio	Lower	Upper
49	100		
128	48.6	23.7	71.1
130	62.1	30.6	91.6

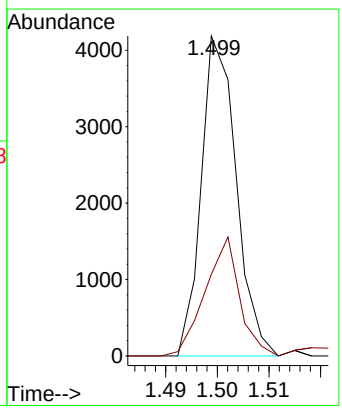


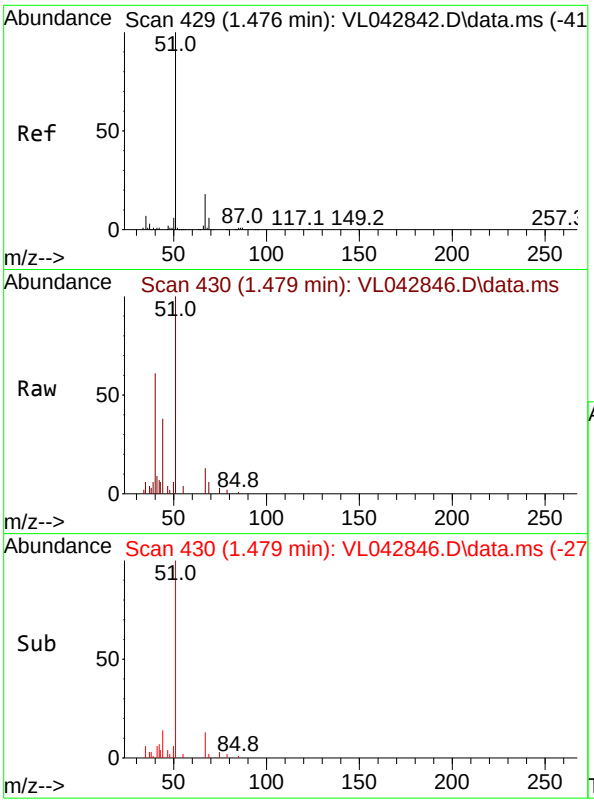


#2
Dichlorodifluoromethane
Concen: 0.108 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Tgt Ion: 85 Resp: 1967

Ion	Ratio	Lower	Upper
85	100		
87	25.5	25.3	37.9



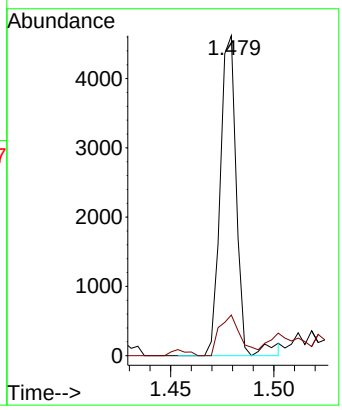


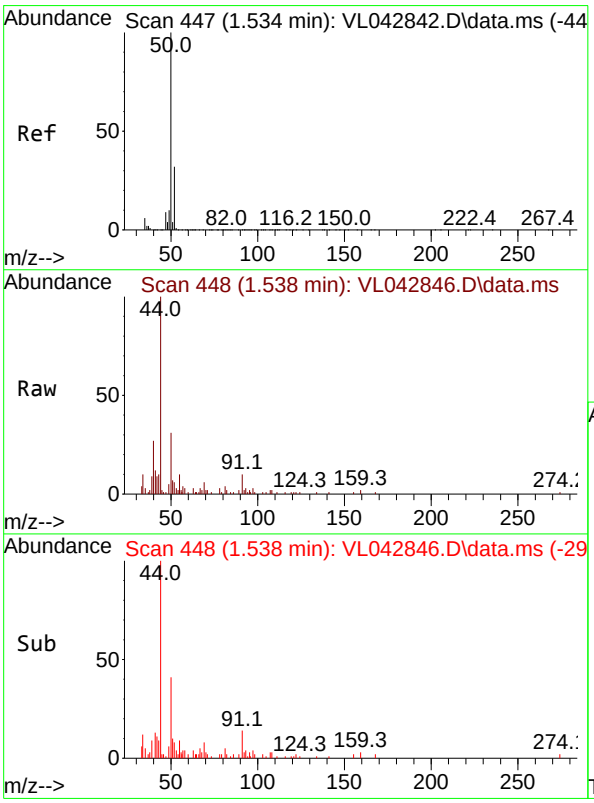
#3
Chlorodifluoromethane
Concen: 0.127 ppbv
RT: 1.479 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 51 Resp: 2553

Ion	Ratio	Lower	Upper
51	100		
67	18.6	14.9	22.3

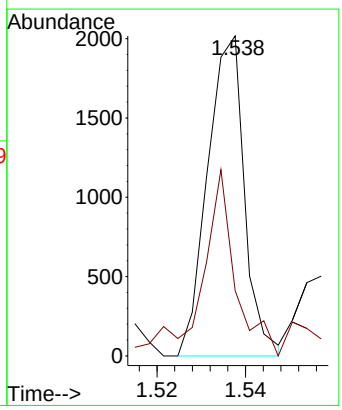


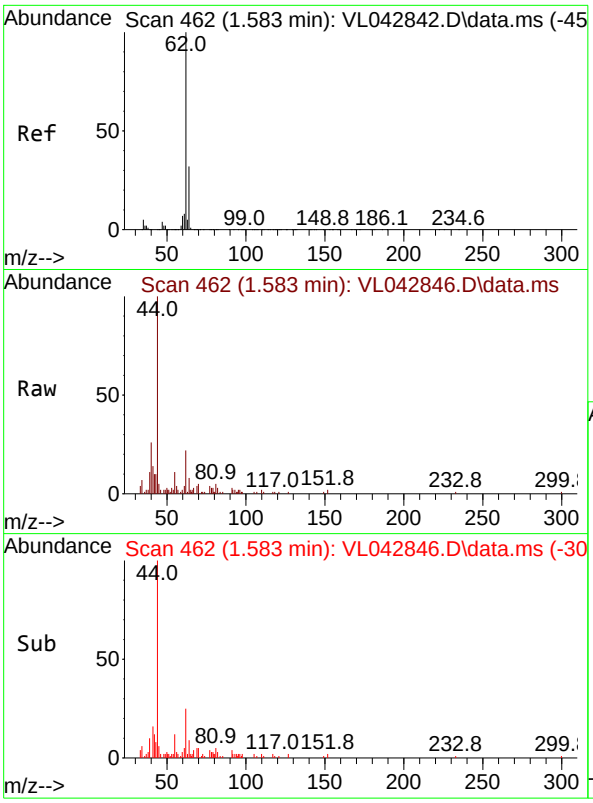


#4
Chloromethane
Concen: 0.160 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Tgt Ion: 50 Resp: 1167

Ion	Ratio	Lower	Upper
50	100		
52	16.8	25.9	38.9#



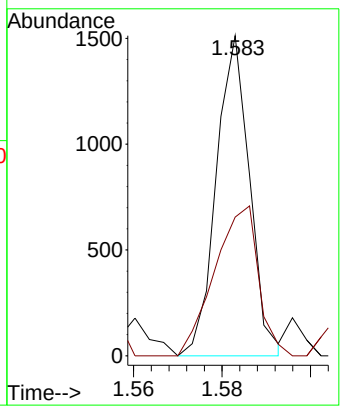


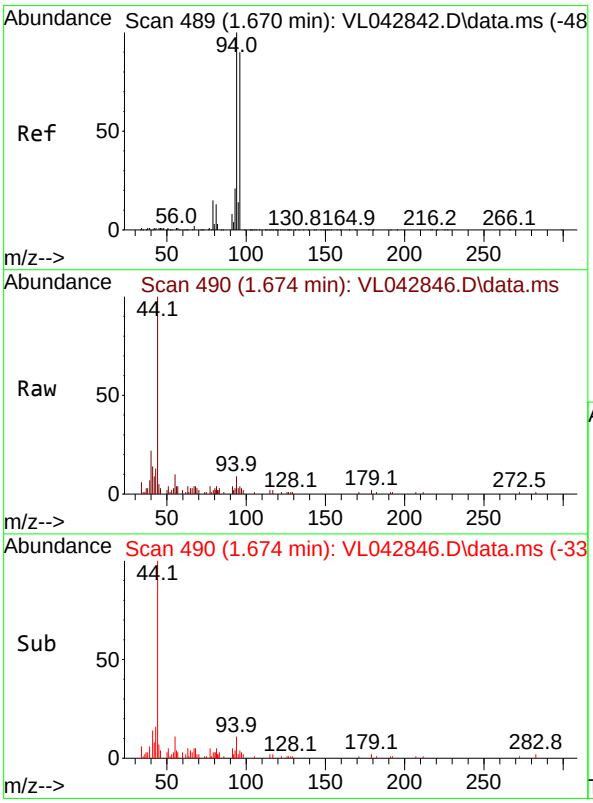
#5
Vinyl Chloride
Concen: 0.110 ppbv
RT: 1.583 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 62 Resp: 790

Ion	Ratio	Lower	Upper
62	100		
64	39.7	25.4	38.2#

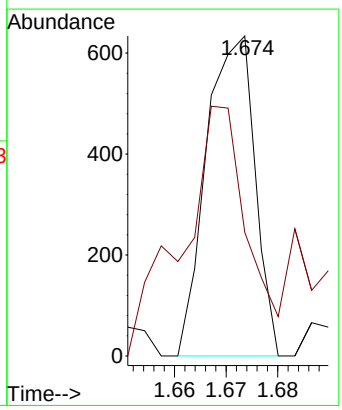


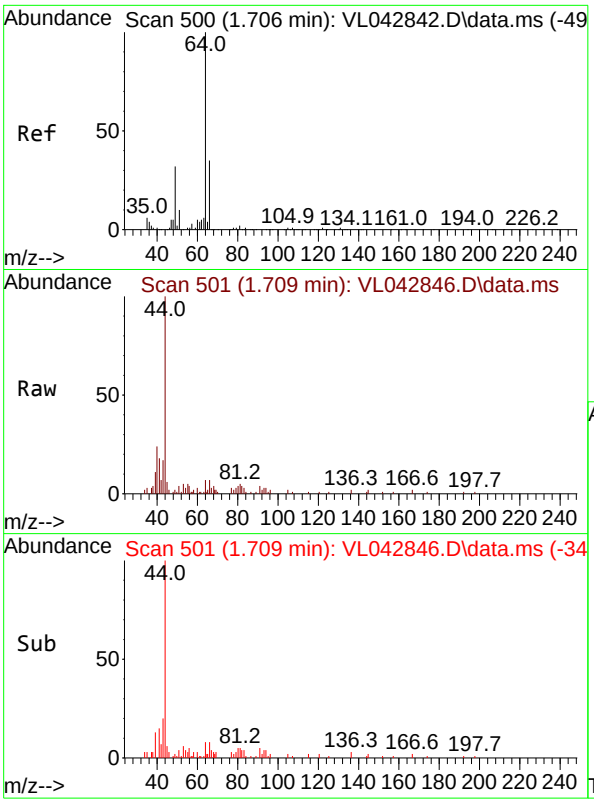


#6
Bromomethane
Concen: 0.144 ppbv
RT: 1.674 min Scan# 490
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Tgt Ion: 94 Resp: 414

Ion	Ratio	Lower	Upper
94	100		
96	26.3	72.1	108.1#



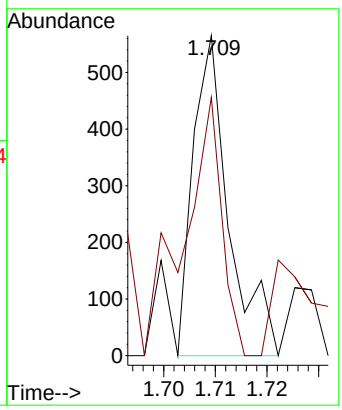


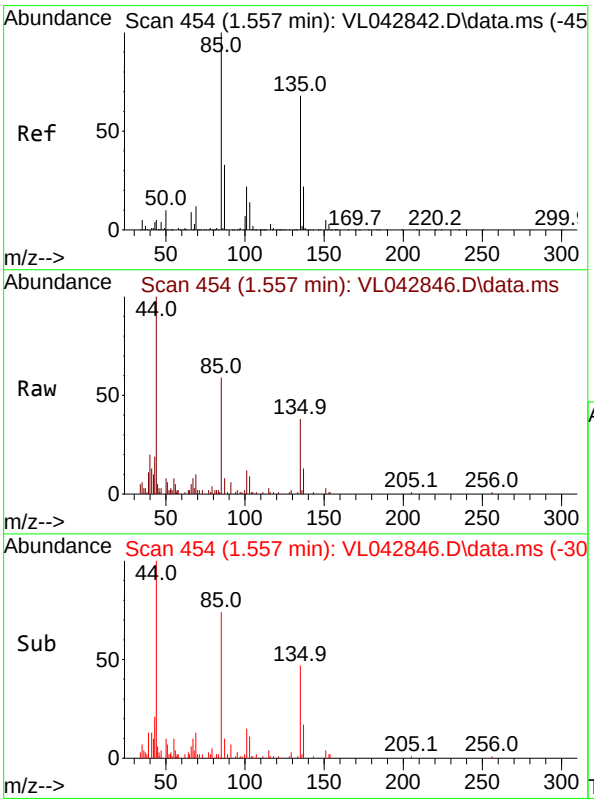
#7
Chloroethane
Concen: 0.097 ppbv
RT: 1.709 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 64 Resp: 272

Ion	Ratio	Lower	Upper
64	100		
66	80.7	28.6	42.8#

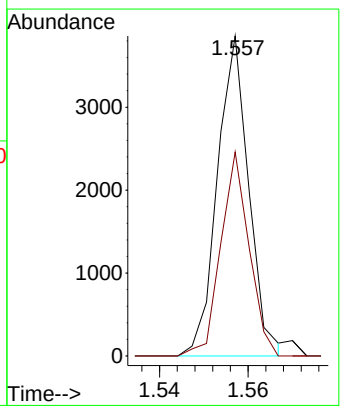


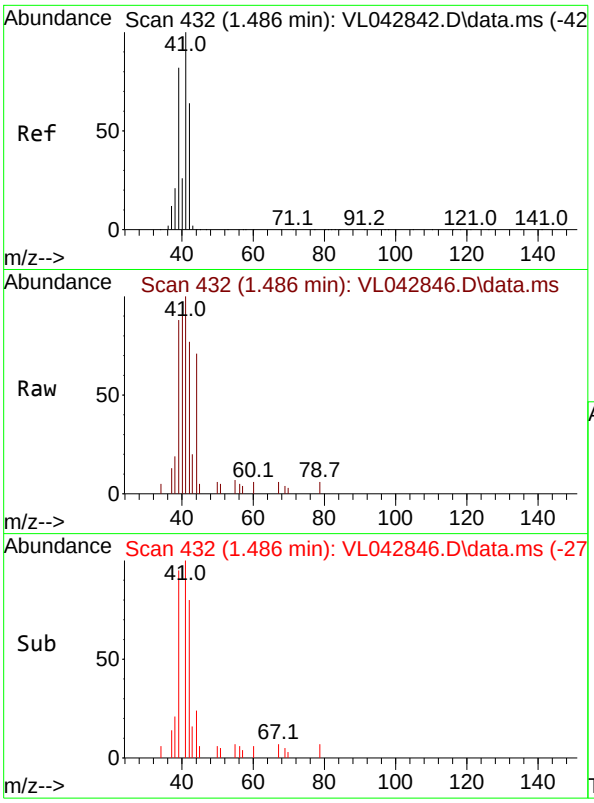


#8
Dichlorotetrafluoroethane
Concen: 0.128 ppbv
RT: 1.557 min Scan# 454
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Tgt Ion: 85 Resp: 1898

Ion	Ratio	Lower	Upper
85	100		
135	57.6	51.2	76.8



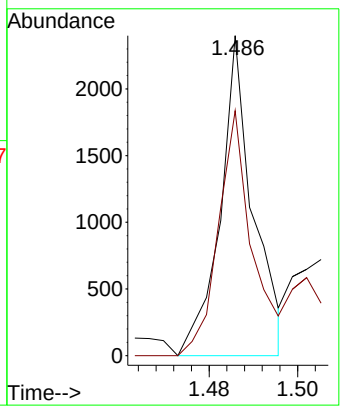


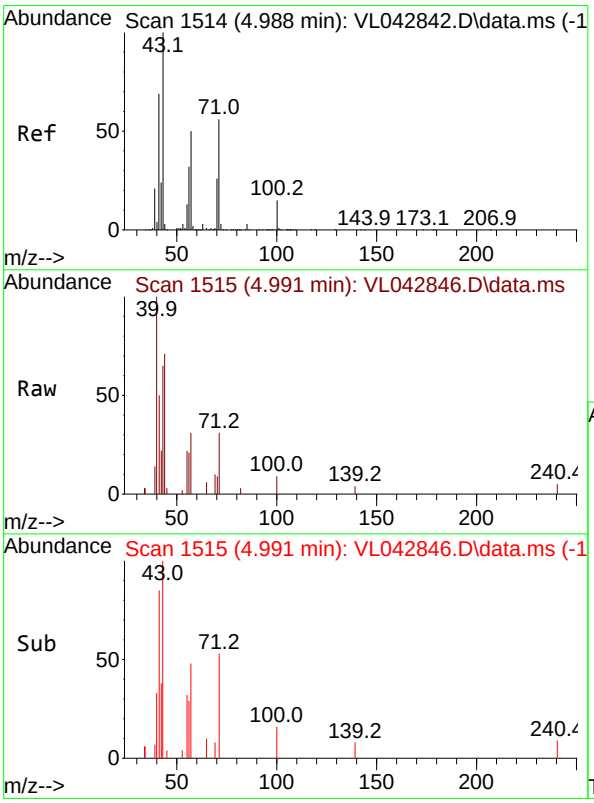
#9
Propene
Concen: 0.142 ppbv
RT: 1.486 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 41 Resp: 1233

Ion	Ratio	Lower	Upper
41	100		
42	148.2	53.0	79.4#

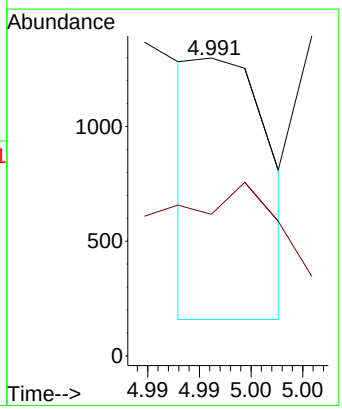


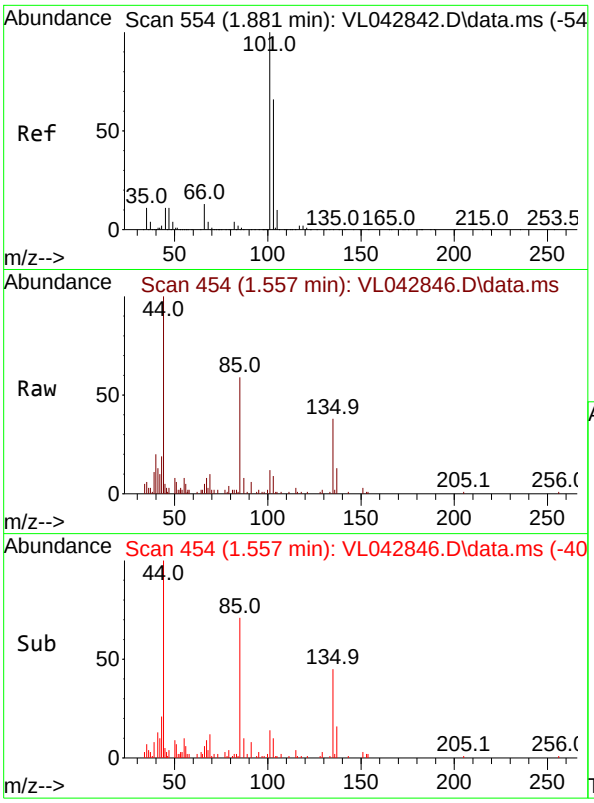


#10
Heptane
Concen: 0.024 ppbv
RT: 4.991 min Scan# 1515
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Tgt Ion: 43 Resp: 560

Ion	Ratio	Lower	Upper
43	100		
57	281.8	41.4	62.0#



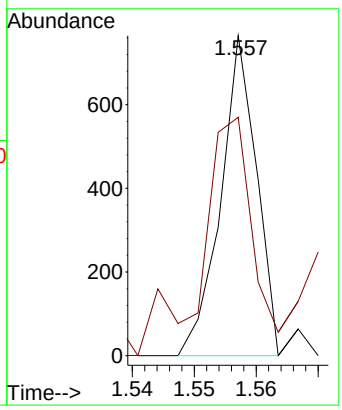


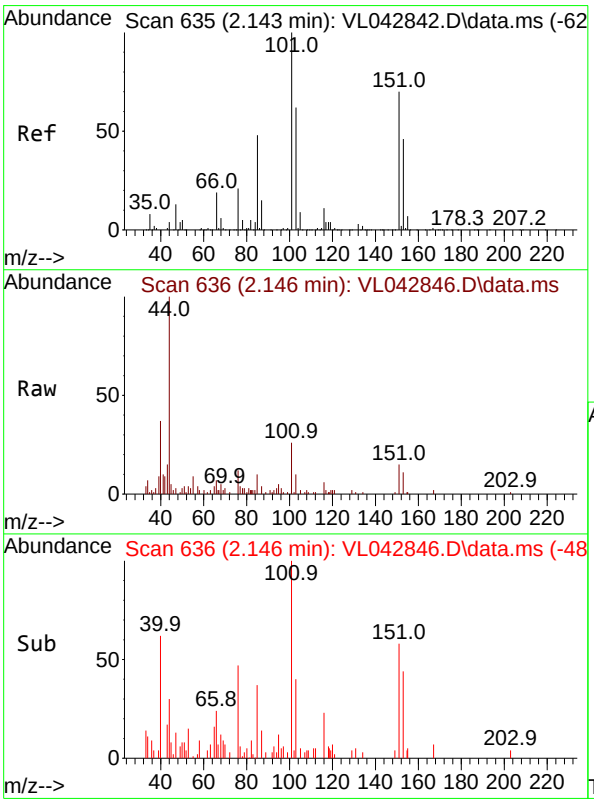
#11
Trichlorofluoromethane
Concen: 0.017 ppbv
RT: 1.557 min Scan# 4
Delta R.T. -0.324 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:101 Resp: 307

Ion	Ratio	Lower	Upper
101	100		
103	67.2	52.5	78.7

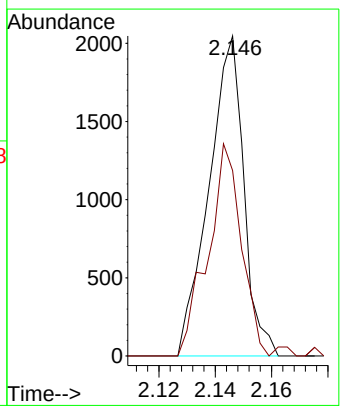


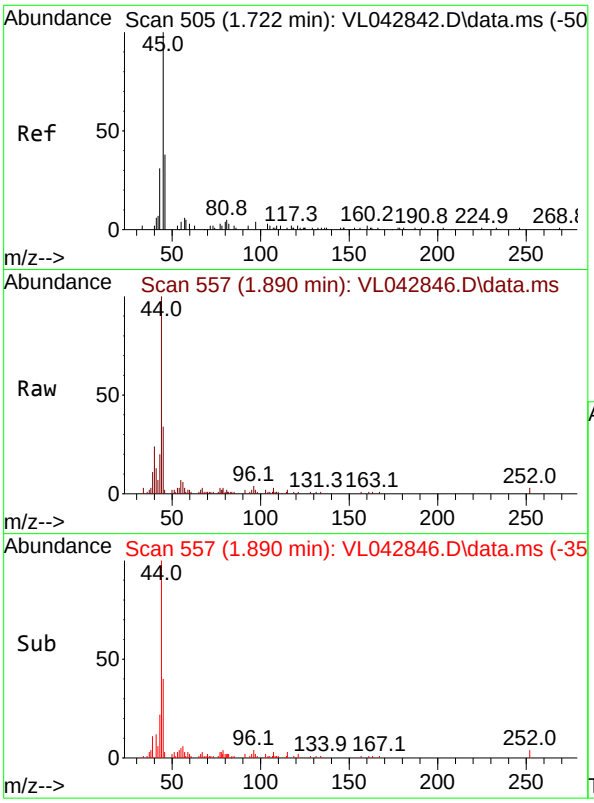


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.123 ppbv
RT: 2.146 min Scan# 636
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Tgt Ion:101 Resp: 1758

Ion	Ratio	Lower	Upper
101	100		
151	64.7	56.4	84.6



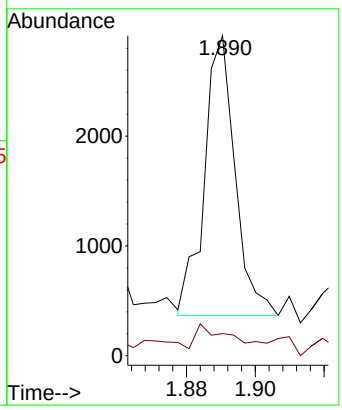


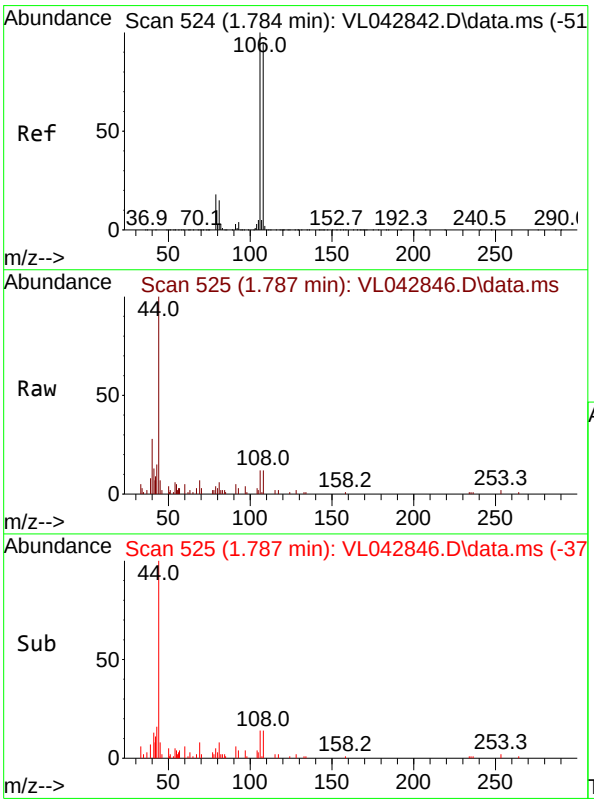
#13
Ethanol
Concen: 1.847 ppbv
RT: 1.890 min Scan# 5
Delta R.T. 0.168 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 45 Resp: 1584

Ion	Ratio	Lower	Upper
45	100		
46	30.6	17.5	69.9

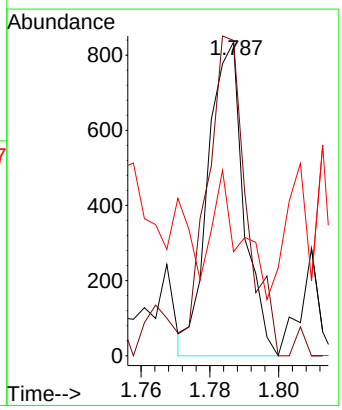


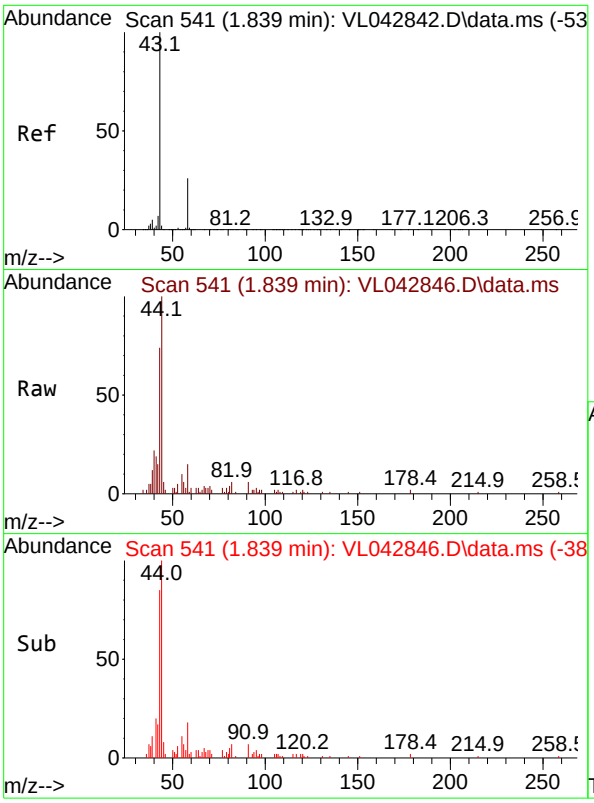


#14
Bromoethene
Concen: 0.117 ppbv
RT: 1.787 min Scan# 525
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

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#



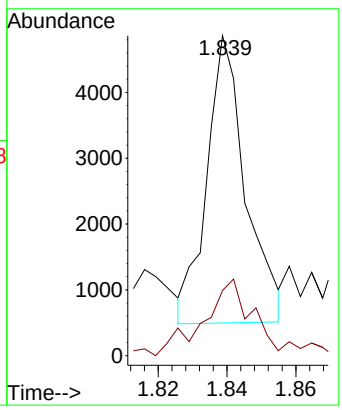


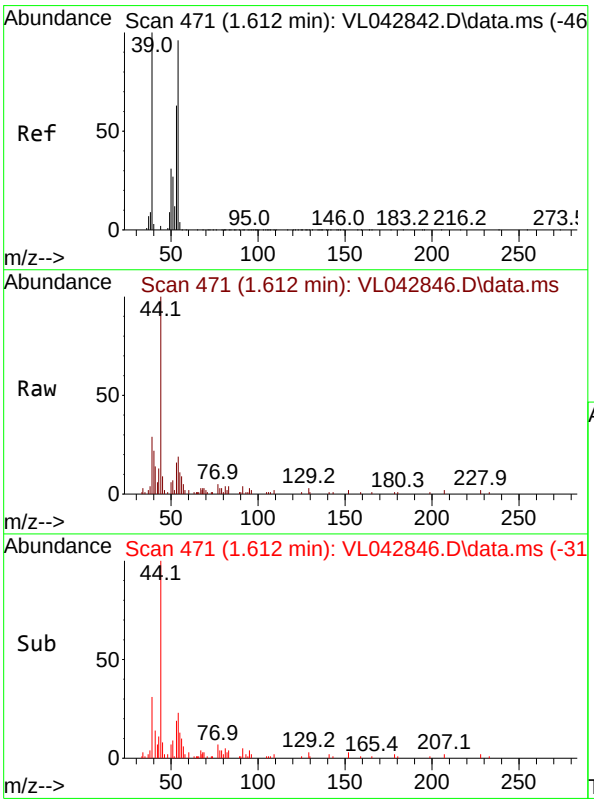
#15
Acetone
Concen: 0.208 ppbv
RT: 1.839 min Scan# 54
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 43 Resp: 3411

Ion	Ratio	Lower	Upper
43	100		
58	42.9	22.4	33.6#

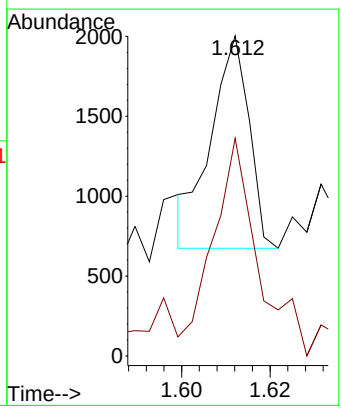


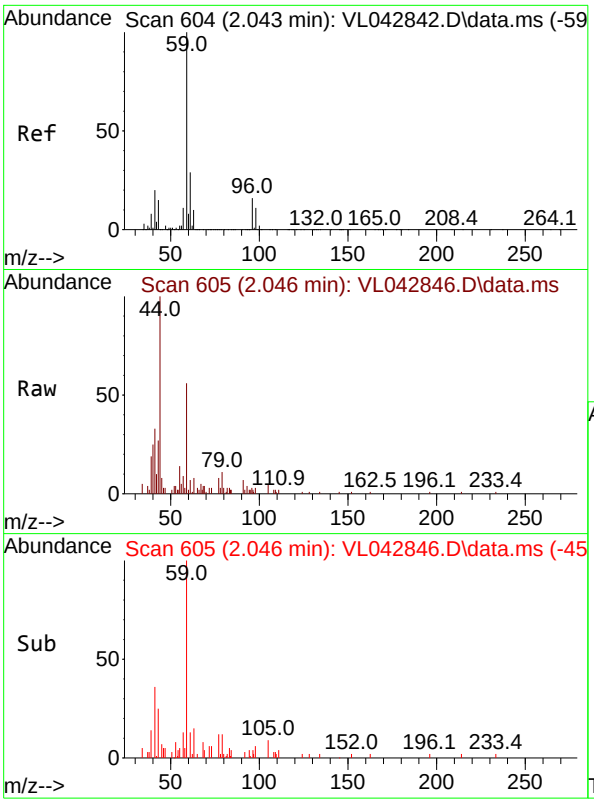


#16
1,3-Butadiene
Concen: 0.107 ppbv
RT: 1.612 min Scan# 471
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Tgt Ion: 39 Resp: 795

Ion	Ratio	Lower	Upper
39	100		
54	153.6	63.6	95.4#



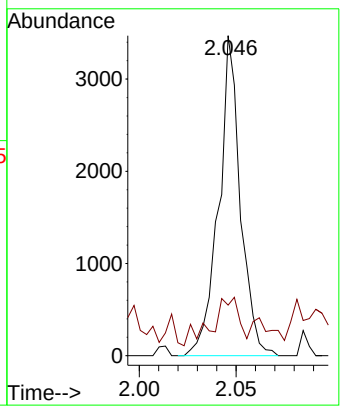


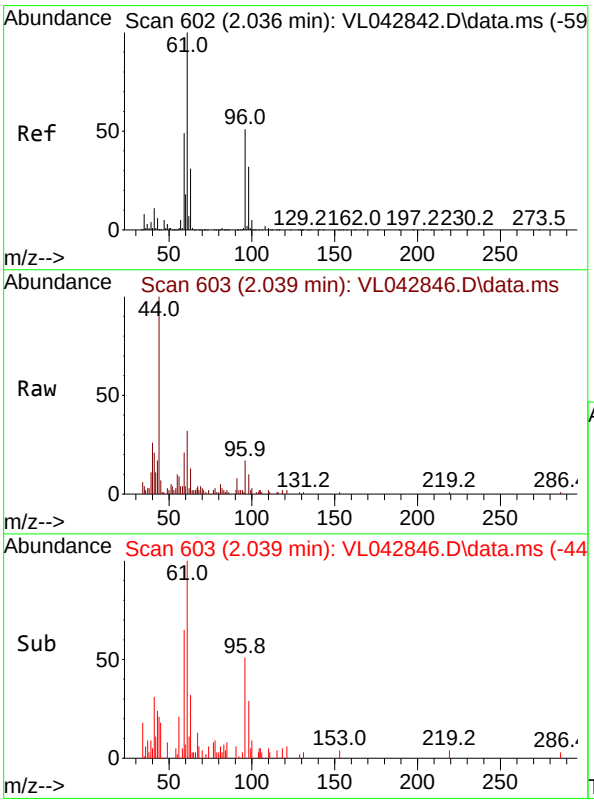
#17
tert-Butyl alcohol
Concen: 0.139 ppbv
RT: 2.046 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 59 Resp: 2697

Ion	Ratio	Lower	Upper
59	100		
57	24.9	9.0	13.4#

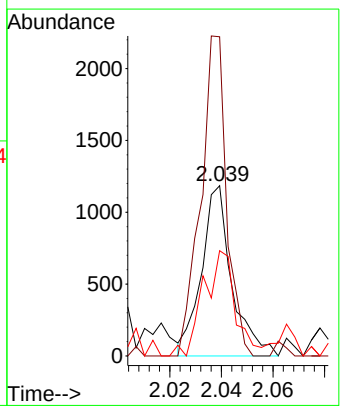


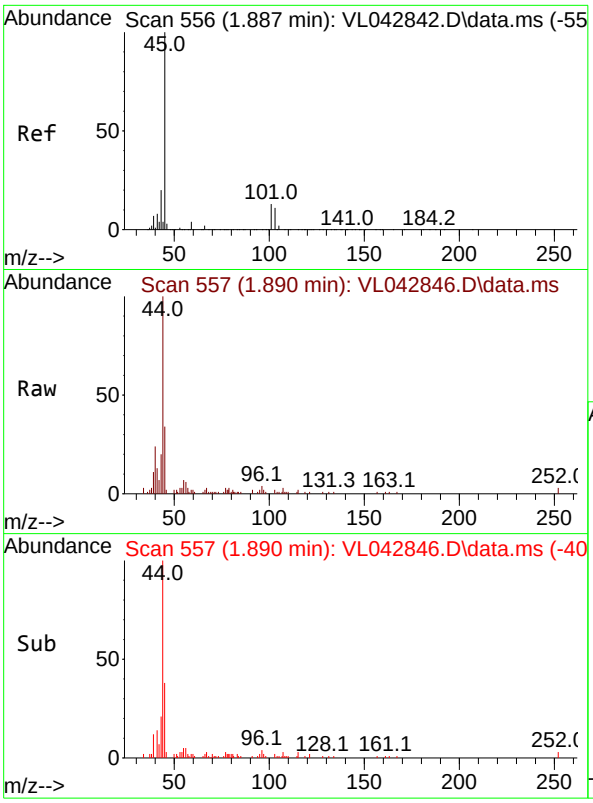


#18
1,1-Dichloroethene
Concen: 0.154 ppbv
RT: 2.039 min Scan# 603
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

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



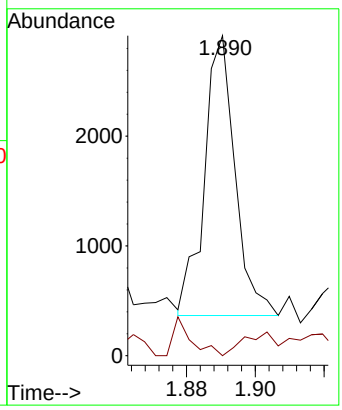


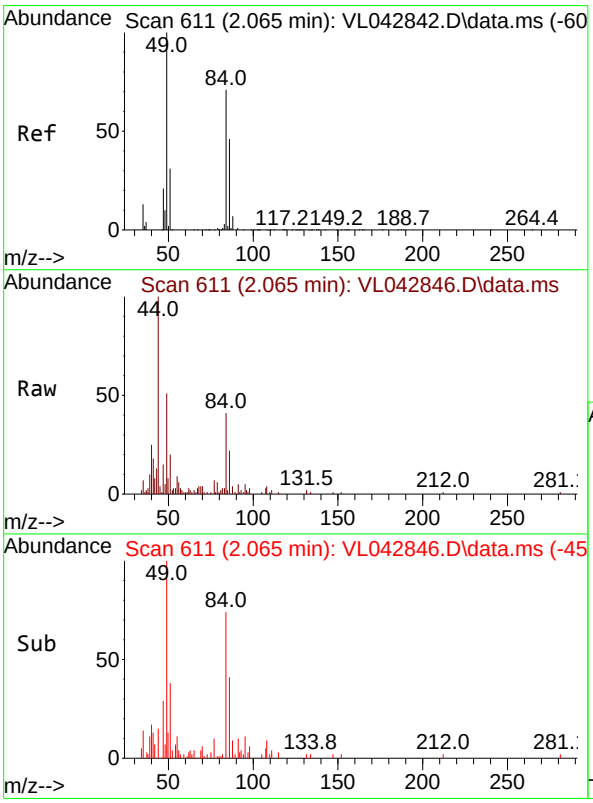
#19
Isopropyl Alcohol
Concen: 0.162 ppbv
RT: 1.890 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 45 Resp: 1584

Ion	Ratio	Lower	Upper
45	100		
58	26.0	32.7	49.1#

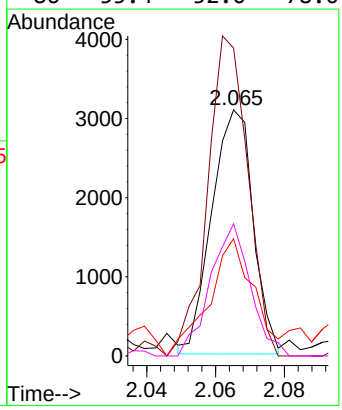


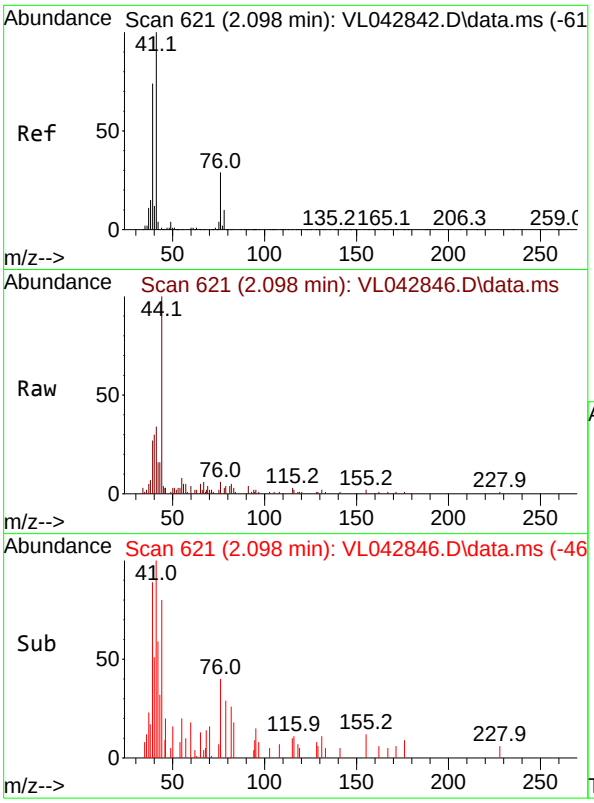


#20
Methylene Chloride
Concen: 0.376 ppbv
RT: 2.065 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

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



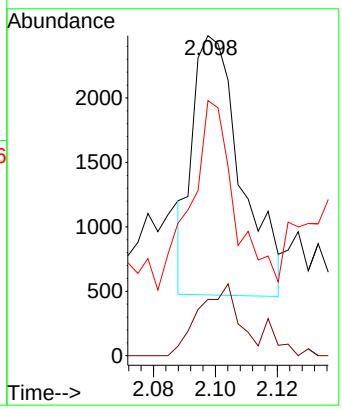


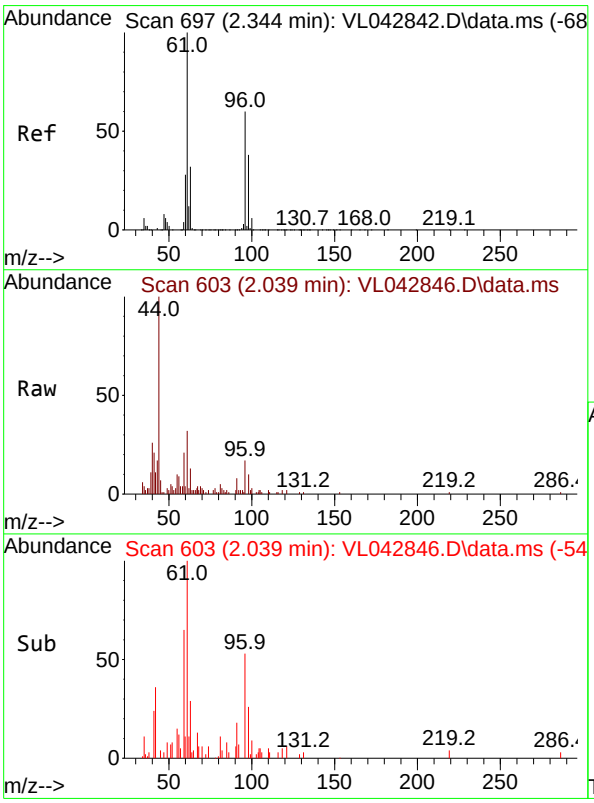
#21
Allyl Chloride
Concen: 0.190 ppbv
RT: 2.098 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

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#

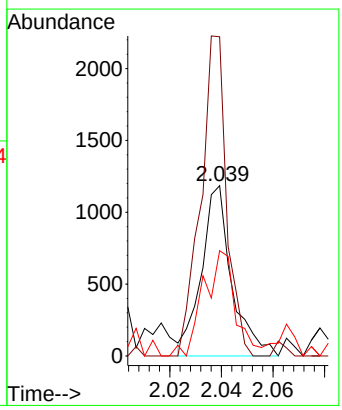


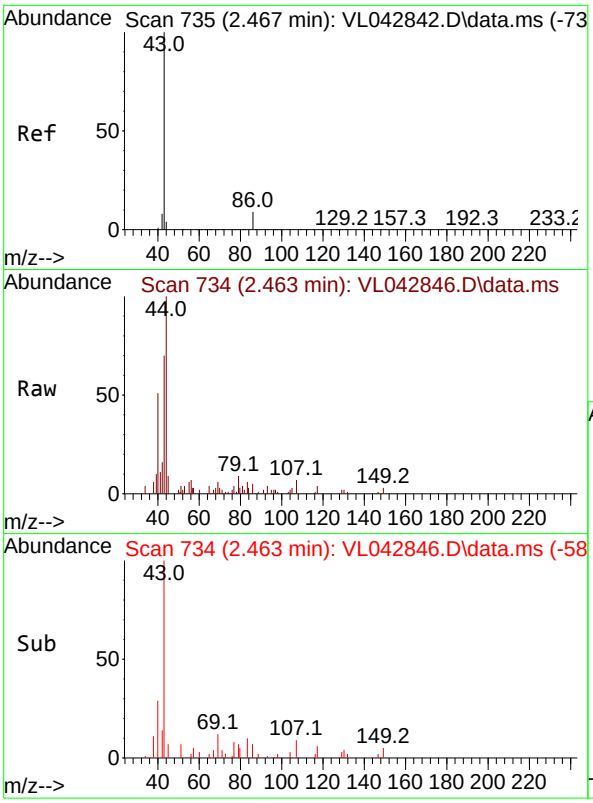


#22
trans-1,2-Dichloroethene
Concen: 0.138 ppbv
RT: 2.039 min Scan# 603
Delta R.T. -0.304 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

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



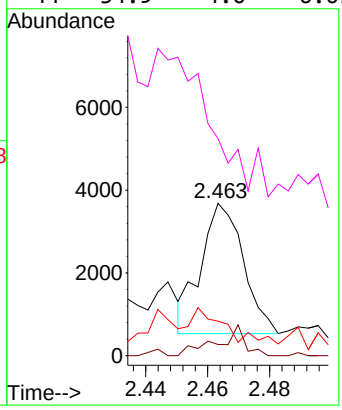


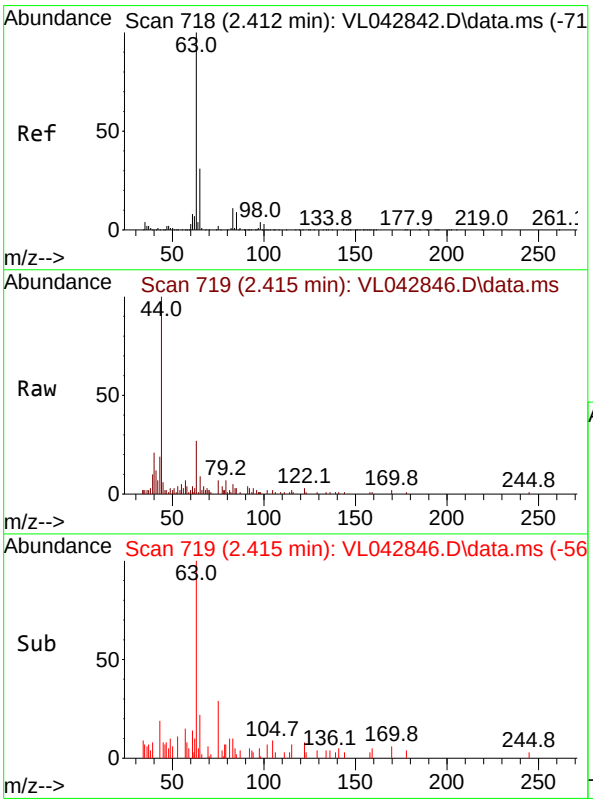
#23
Vinyl Acetate
Concen: 0.139 ppbv
RT: 2.463 min Scan# 7
Delta R.T. -0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

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#

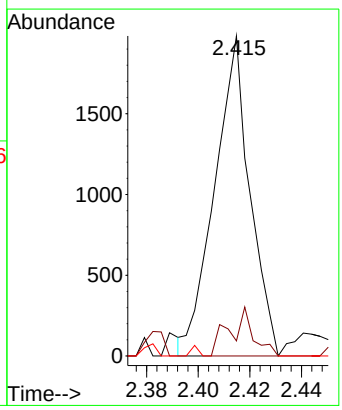


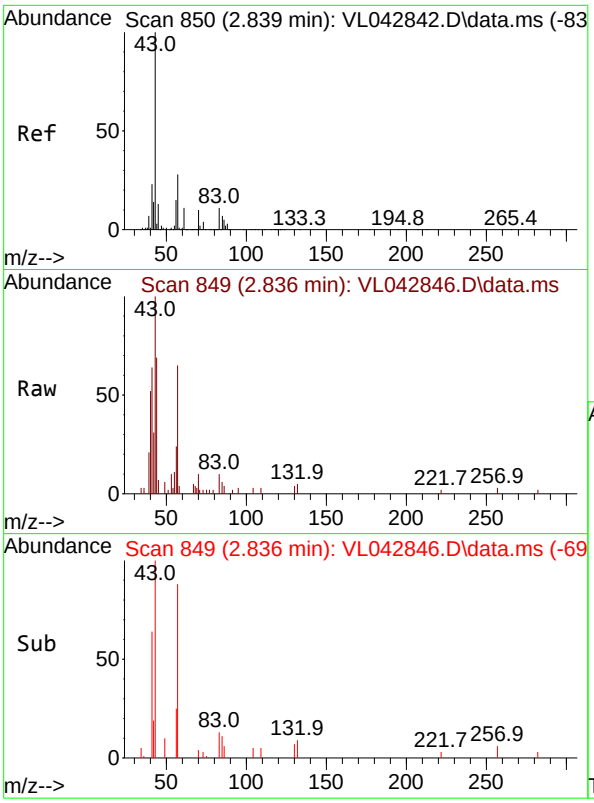


#24
1,1-Dichloroethane
Concen: 0.130 ppbv
RT: 2.415 min Scan# 719
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

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#



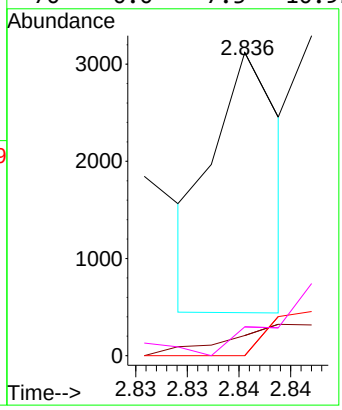


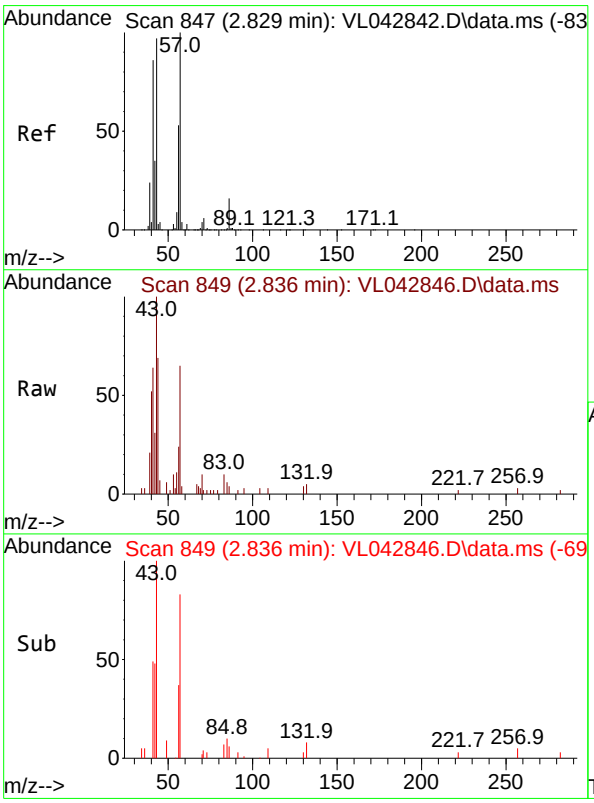
#25
Ethyl Acetate
Concen: 0.030 ppbv
RT: 2.836 min Scan# 84
Delta R.T. -0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

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#

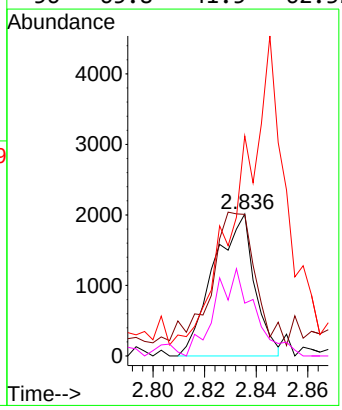


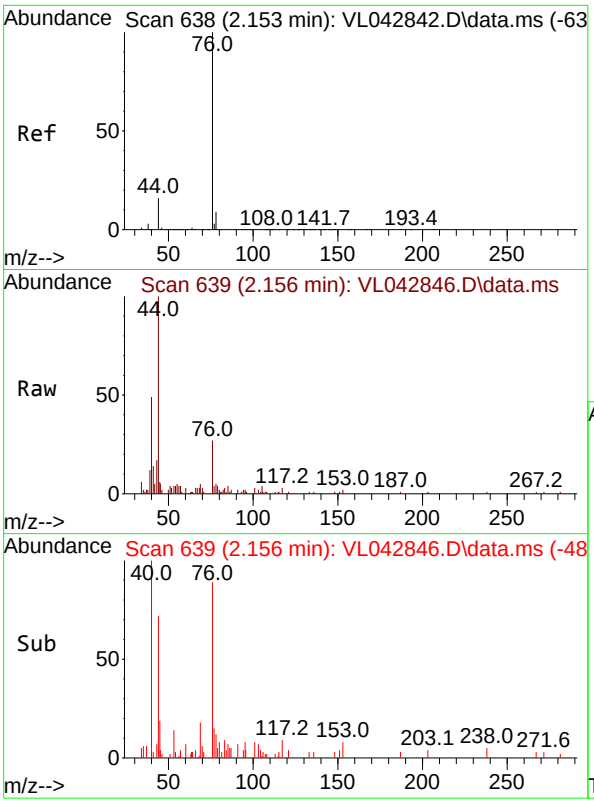


#26
Hexane
Concen: 0.122 ppbv
RT: 2.836 min Scan# 849
Delta R.T. 0.006 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

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#



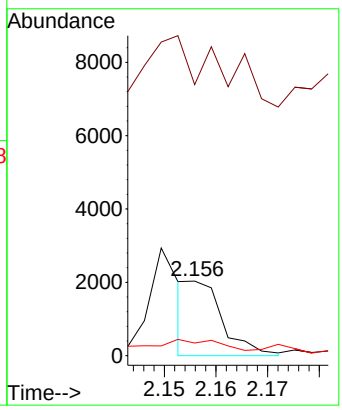


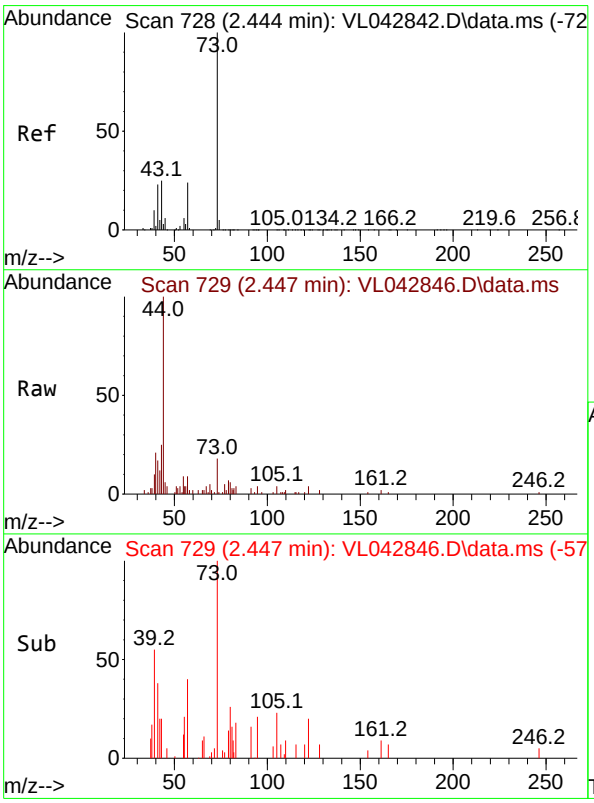
#27
Carbon Disulfide
Concen: 0.054 ppbv
RT: 2.156 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

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#

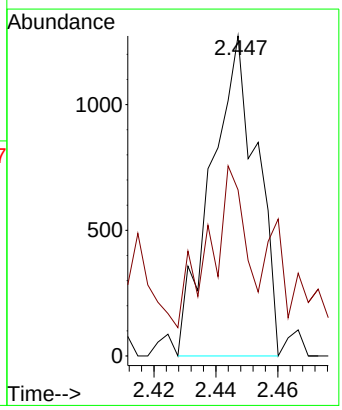


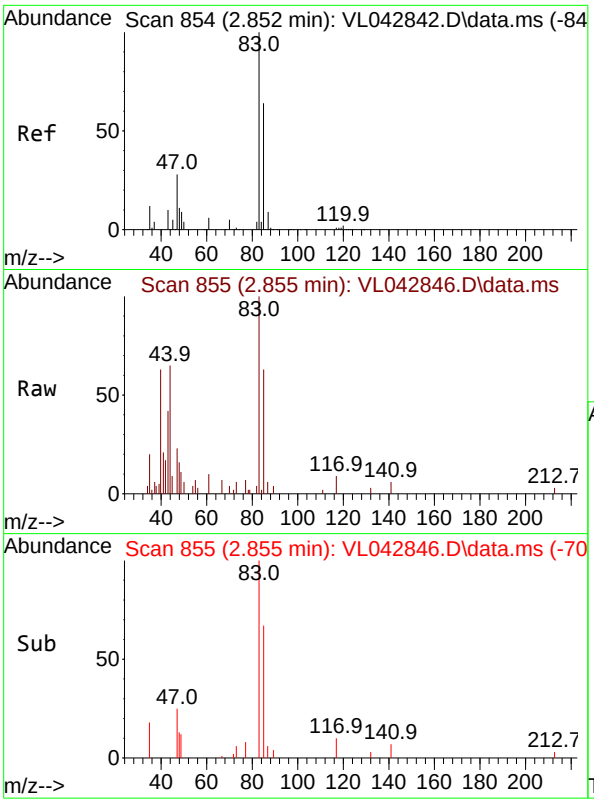


#28
Methyl tert-Butyl Ether
Concen: 0.139 ppbv
RT: 2.447 min Scan# 729
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Tgt Ion: 73 Resp: 1300

Ion	Ratio	Lower	Upper
73	100		
57	84.2	21.6	32.4#



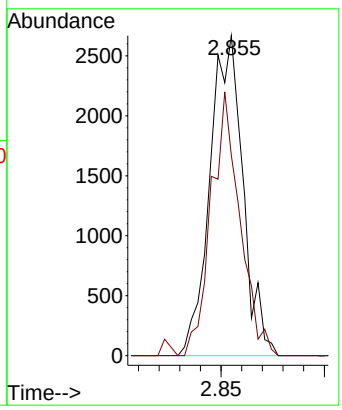


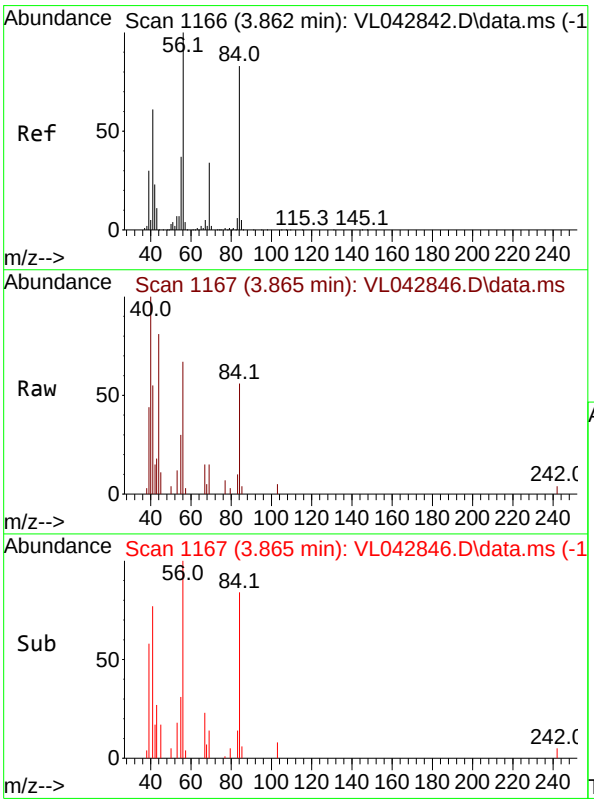
#29
Chloroform
Concen: 0.113 ppbv
RT: 2.855 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 83 Resp: 2962

Ion	Ratio	Lower	Upper
83	100		
85	62.6	51.1	76.7

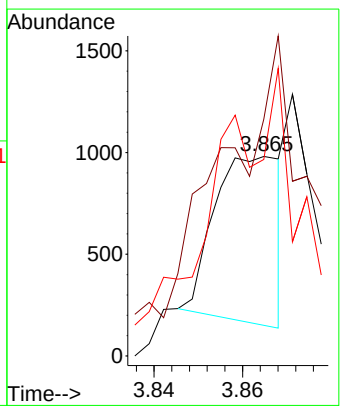


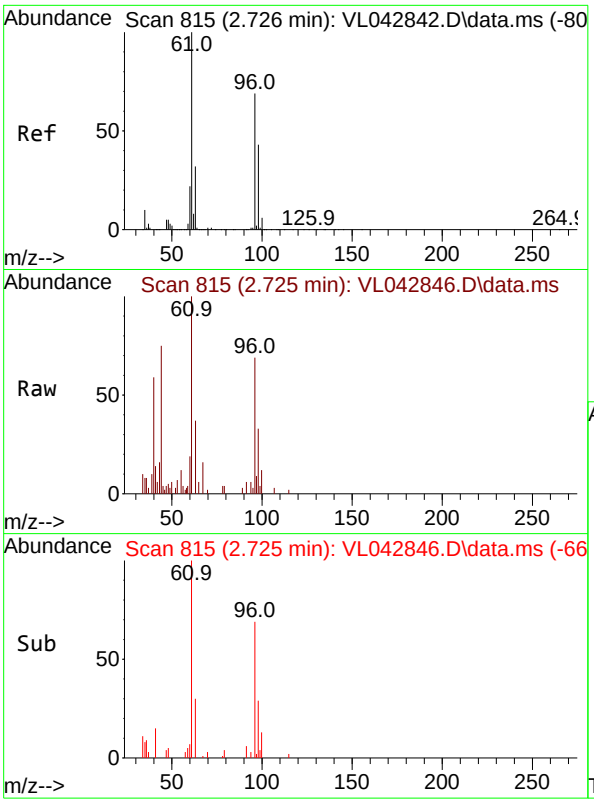


#30
Cyclohexane
Concen: 0.052 ppbv
RT: 3.865 min Scan# 1167
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

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#



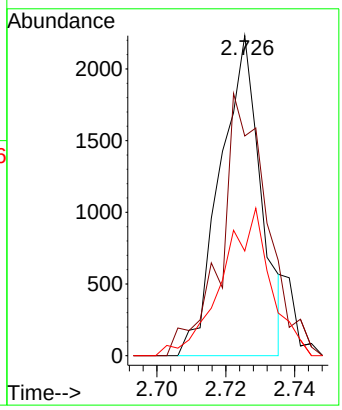


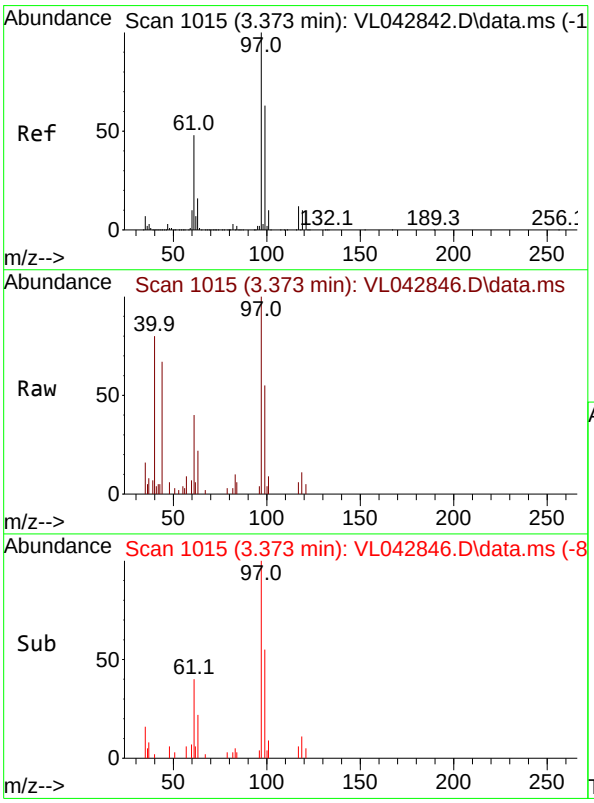
#31
cis-1,2-Dichloroethene
Concen: 0.101 ppbv
RT: 2.725 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

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#

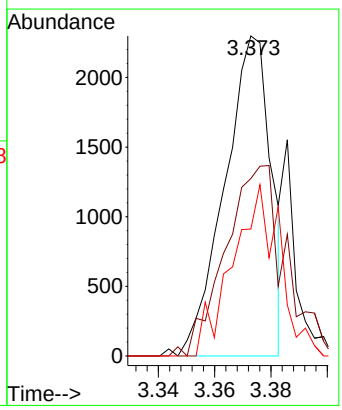


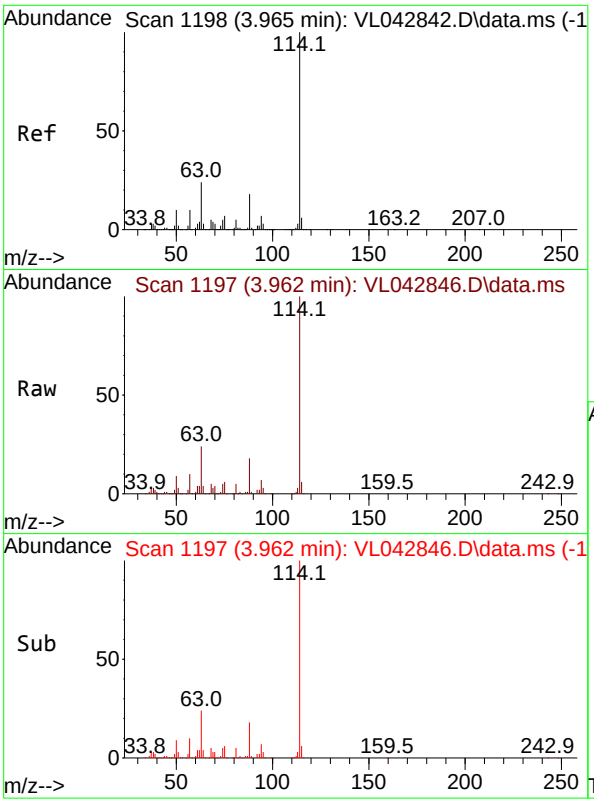


#32
1,1,1-Trichloroethane
Concen: 0.095 ppbv
RT: 3.373 min Scan# 1015
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

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



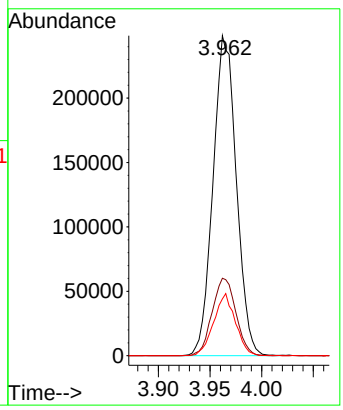


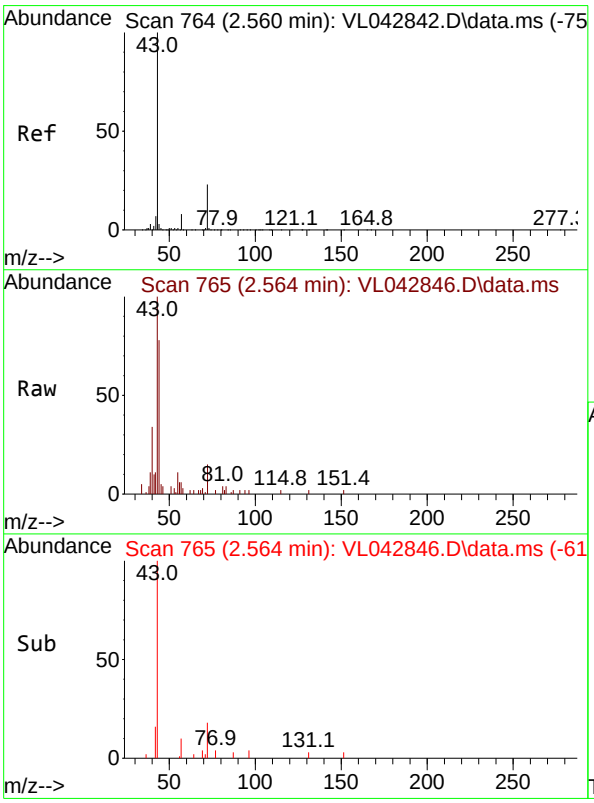
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

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

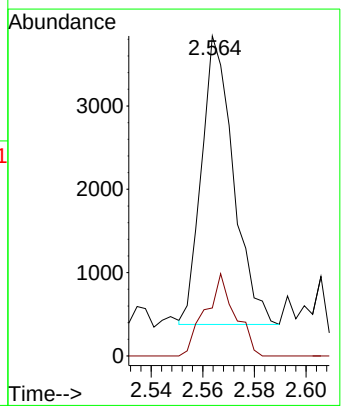


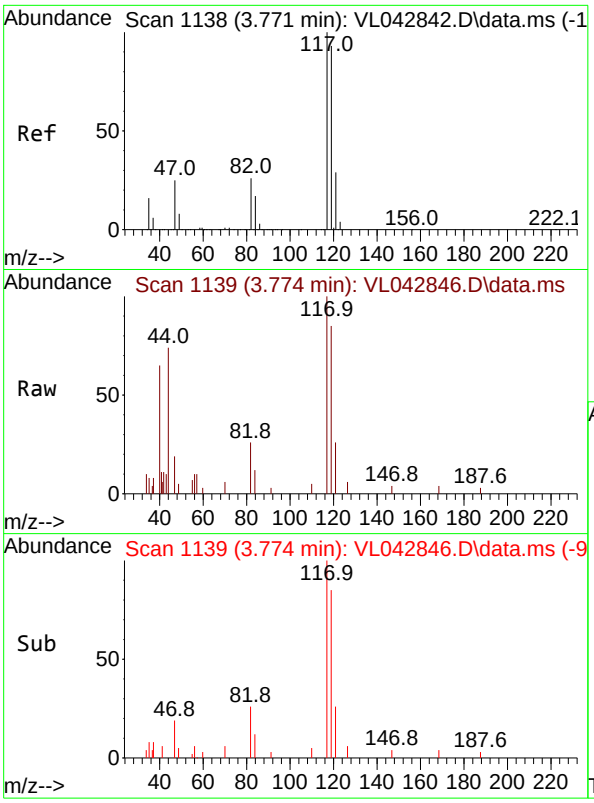


#34
2-Butanone
Concen: 0.113 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Tgt Ion: 43 Resp: 2970

Ion	Ratio	Lower	Upper
43	100		
72	26.7	18.6	28.0



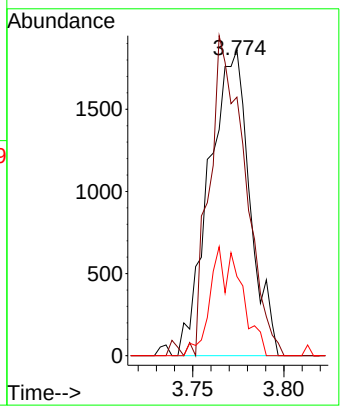


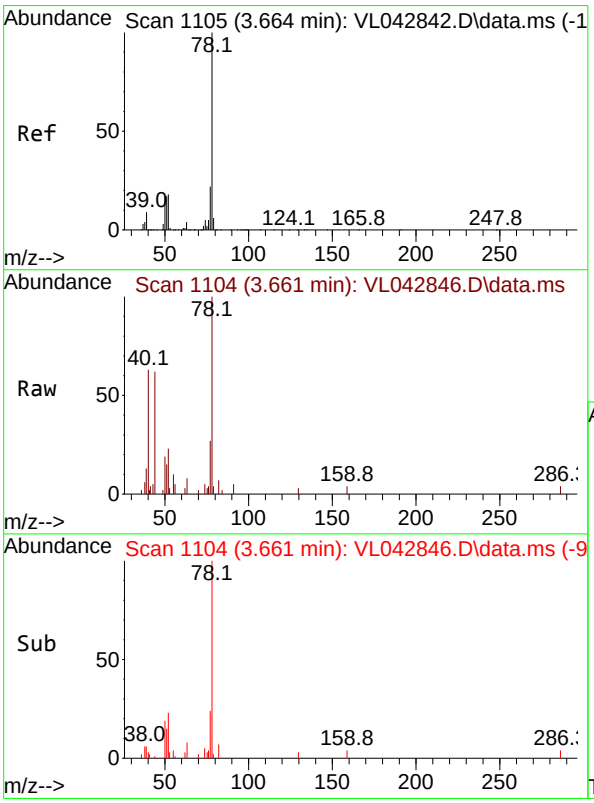
#35
Carbon Tetrachloride
Concen: 0.107 ppbv
RT: 3.774 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

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

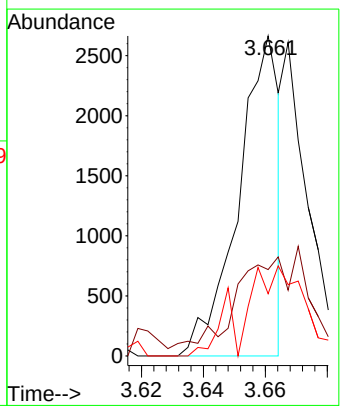


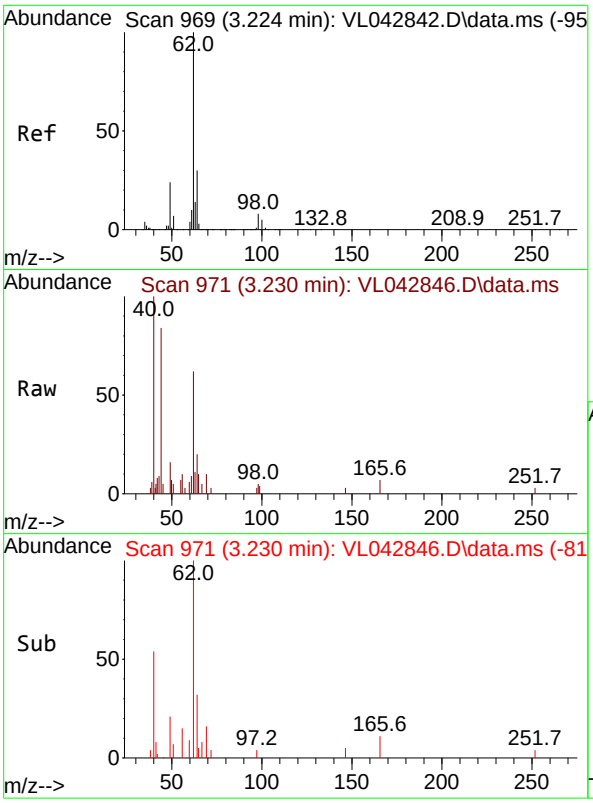


#36
Benzene
Concen: 0.065 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. -0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

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



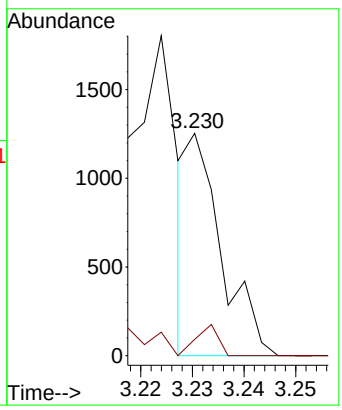


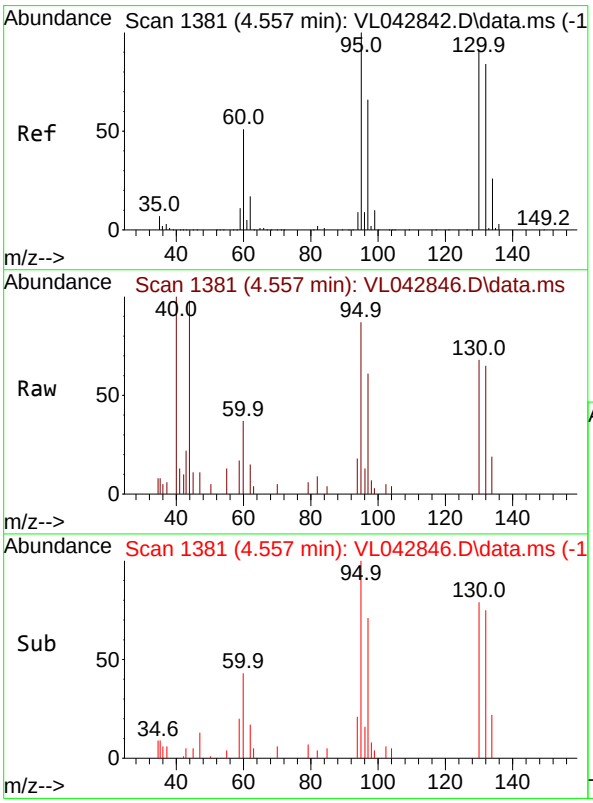
#37
1,2-Dichloroethane
Concen: 0.029 ppbv
RT: 3.230 min Scan# 9
Delta R.T. 0.006 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 62 Resp: 576

Ion	Ratio	Lower	Upper
62	100		
98	25.9	5.9	8.9#

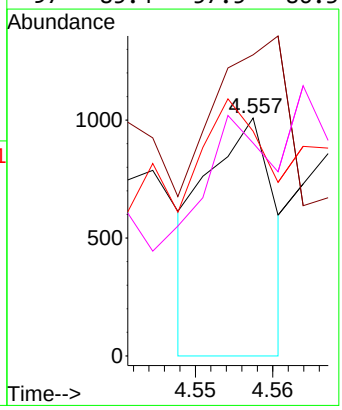


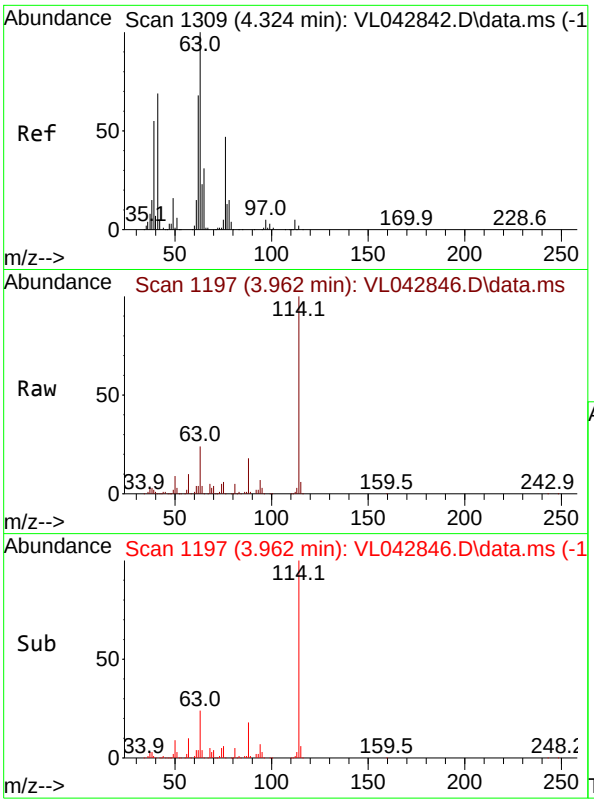


#38
Trichloroethene
Concen: 0.037 ppbv
RT: 4.557 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

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



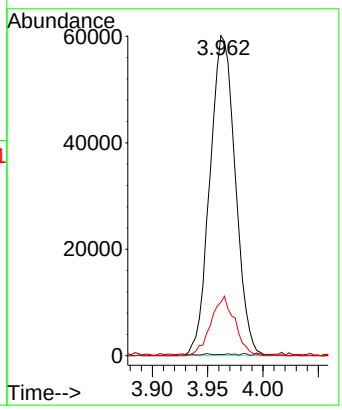


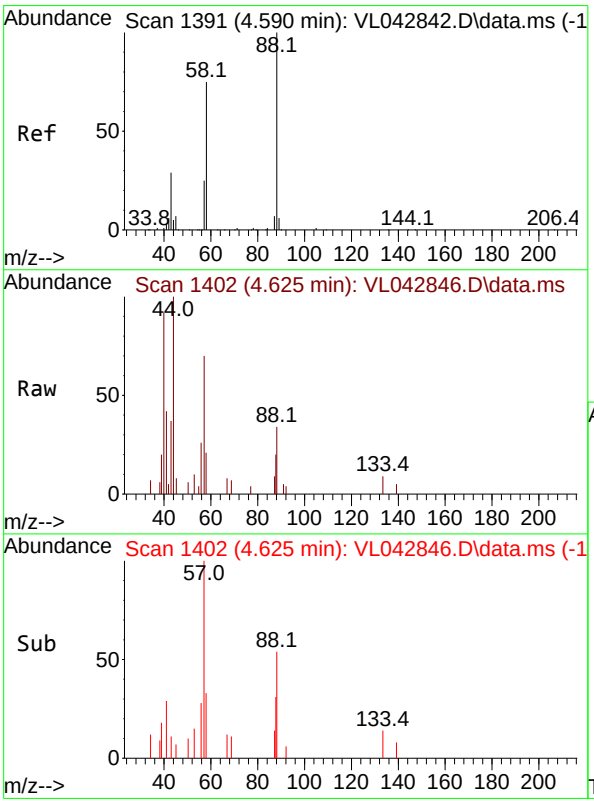
#39
1,2-Dichloropropane
Concen: 7.036 ppbv
RT: 3.962 min Scan# 1
Delta R.T. -0.363 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

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#

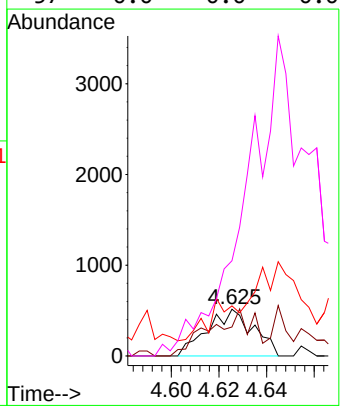


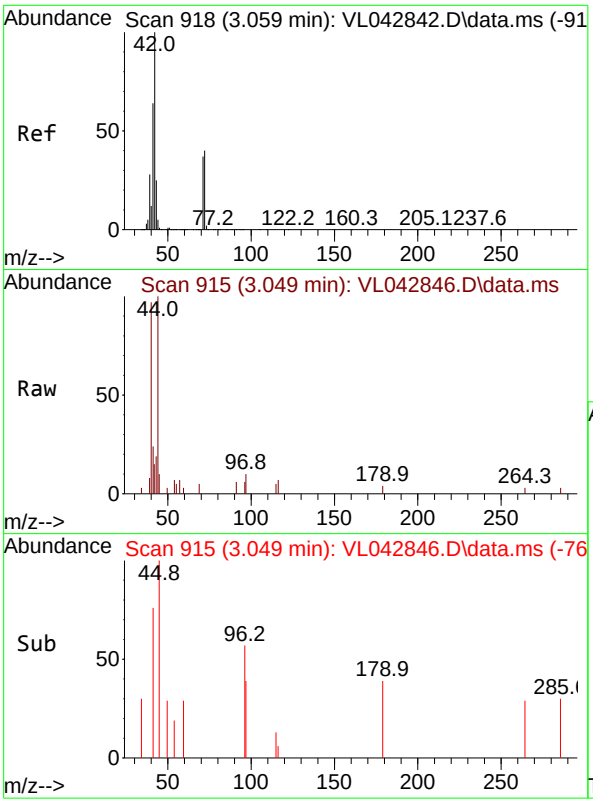


#40
1,4-Dioxane
Concen: 0.108 ppbv
RT: 4.625 min Scan# 1402
Delta R.T. 0.036 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

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



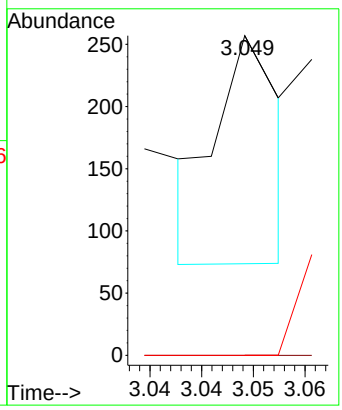


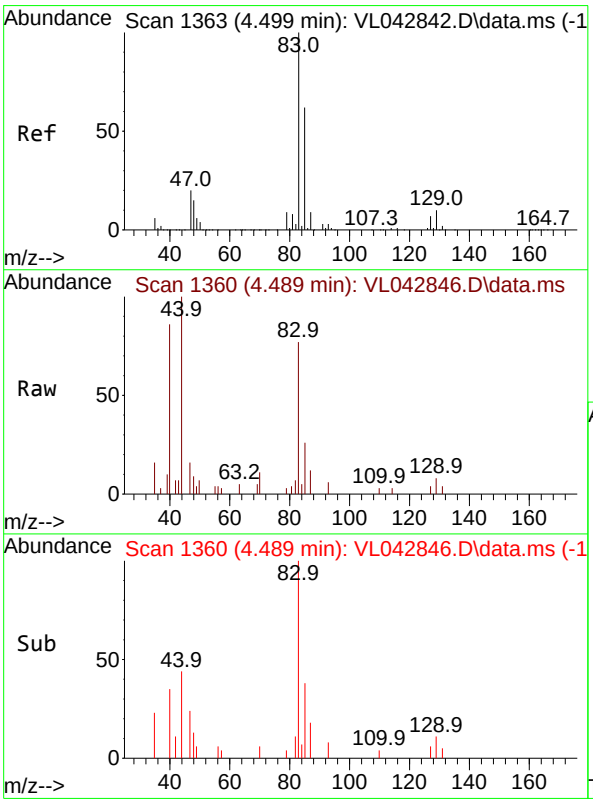
#41
Tetrahydrofuran
Concen: 0.005 ppbv
RT: 3.049 min Scan# 9
Delta R.T. -0.010 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

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#

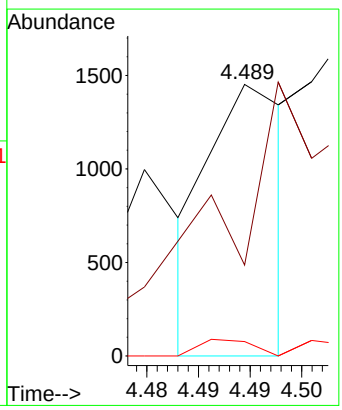


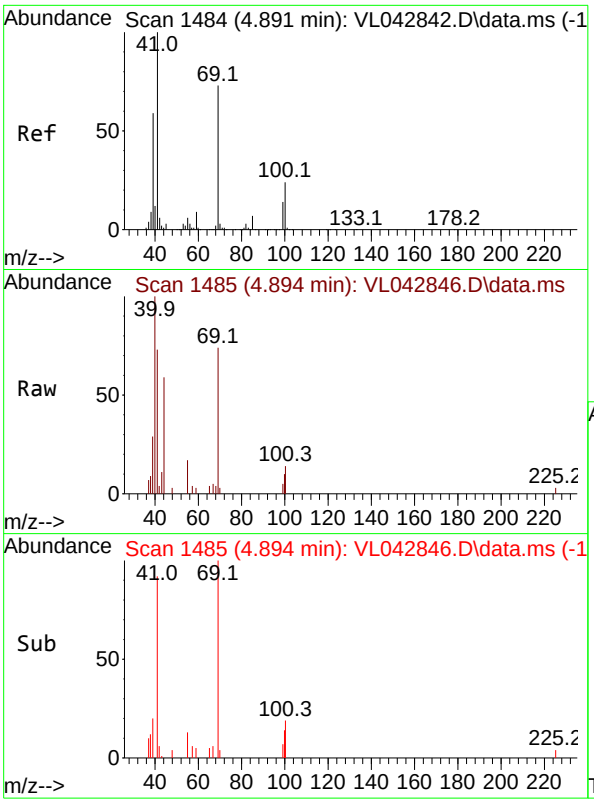


#42
Bromodichloromethane
Concen: 0.026 ppbv
RT: 4.489 min Scan# 1360
Delta R.T. -0.010 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

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#



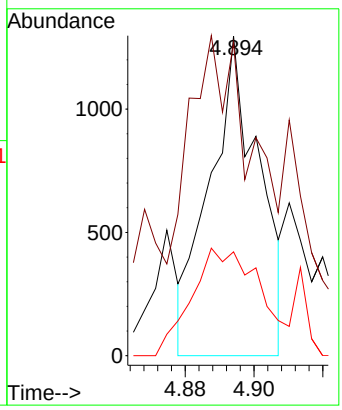


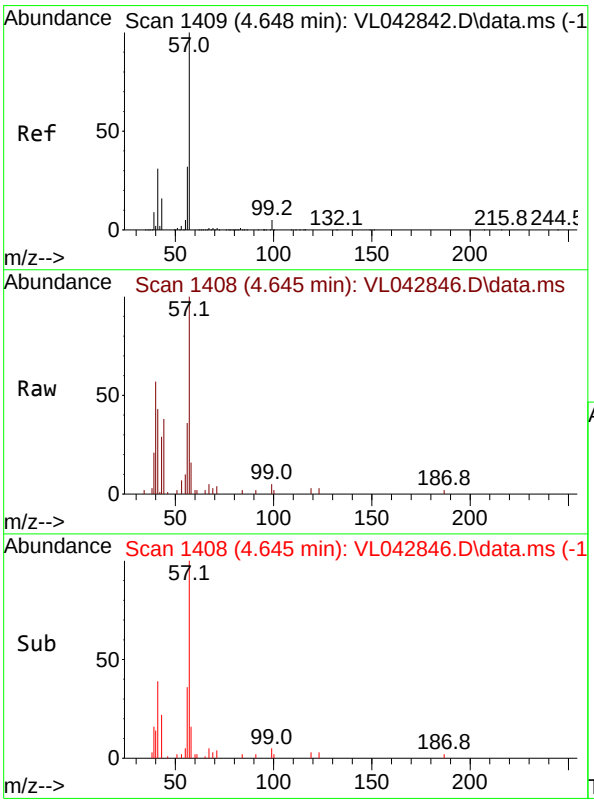
#43
Methyl Methacrylate
Concen: 0.084 ppbv
RT: 4.894 min Scan# 14
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

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#

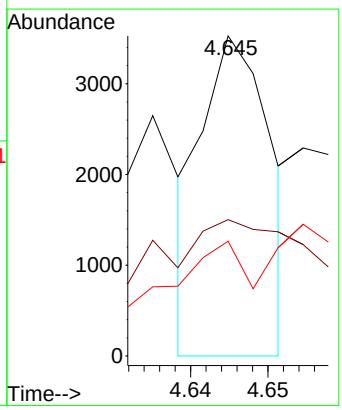


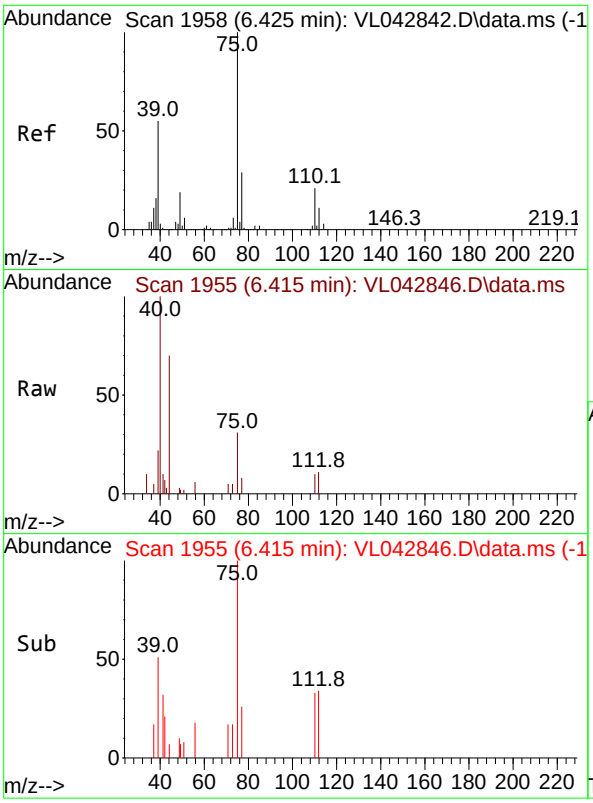


#44
2,2,4-Trimethylpentane
Concen: 0.035 ppbv
RT: 4.645 min Scan# 1408
Delta R.T. -0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

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#



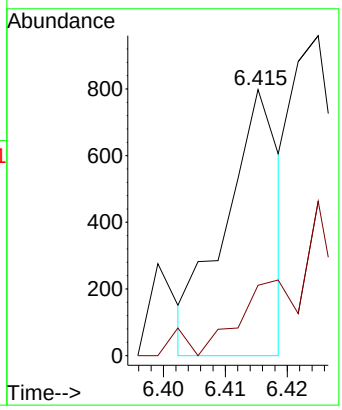


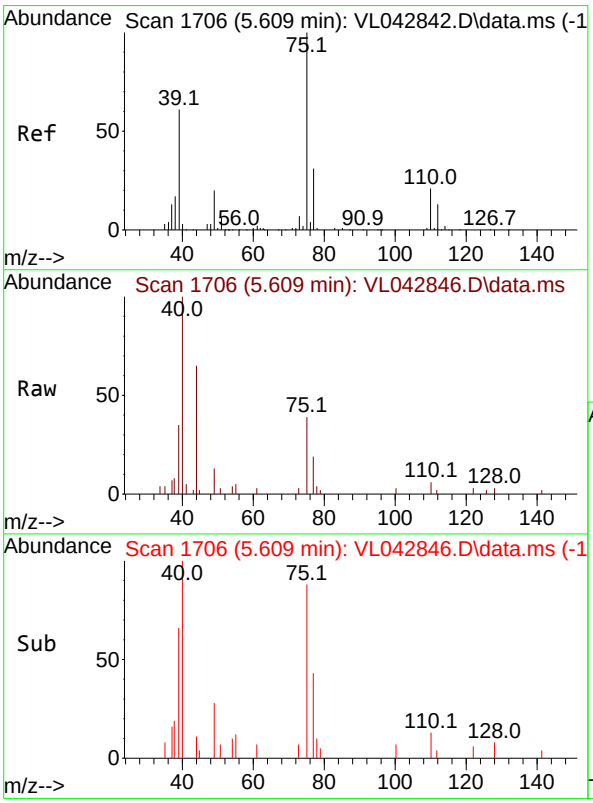
#45
t-1,3-Dichloropropene
Concen: 0.028 ppbv
RT: 6.415 min Scan# 1
Delta R.T. -0.010 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 75 Resp: 486

Ion	Ratio	Lower	Upper
75	100		
77	26.4	23.8	35.6

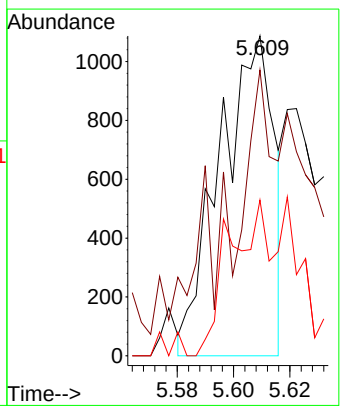


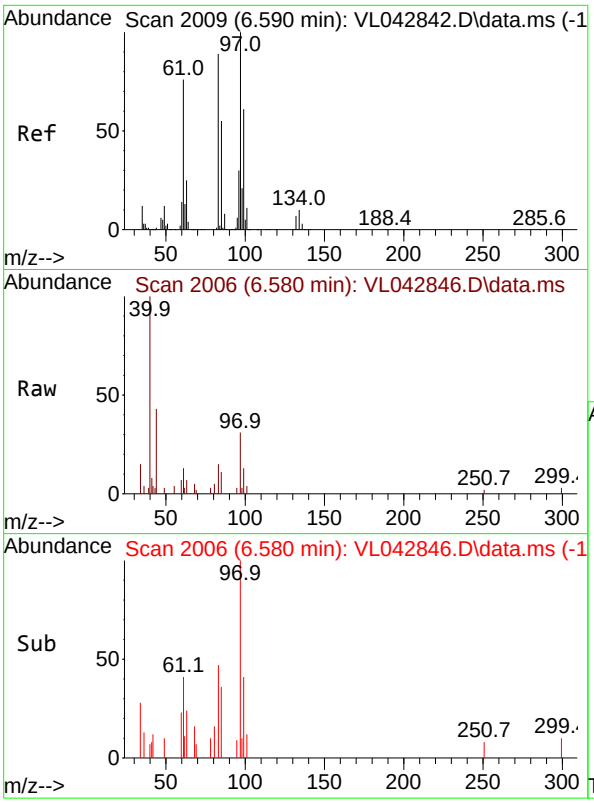


#46
cis-1,3-Dichloropropene
Concen: 0.067 ppbv
RT: 5.609 min Scan# 1706
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

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#



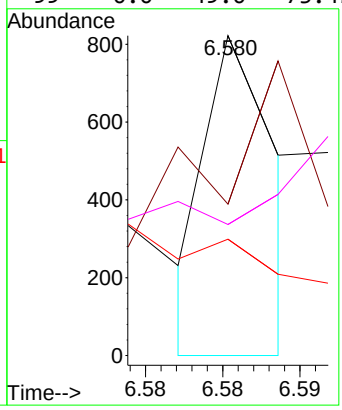


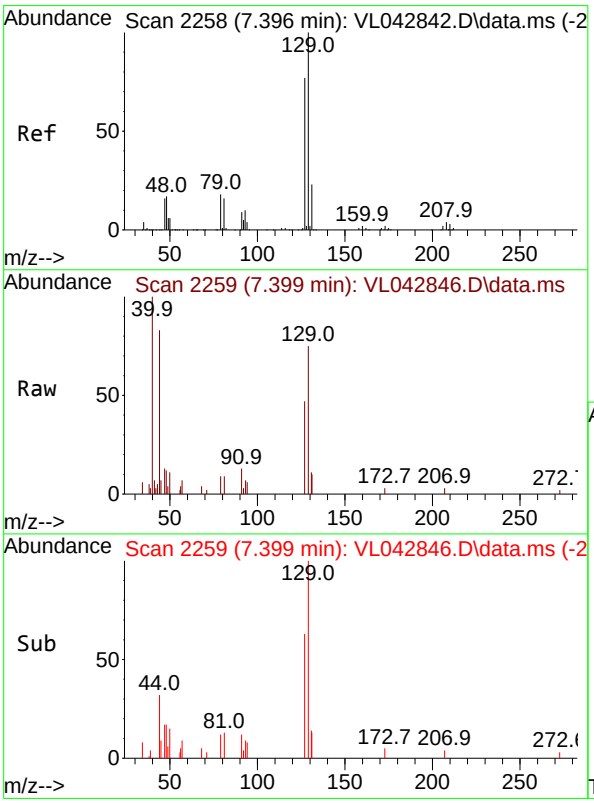
#47
1,1,2-Trichloroethane
Concen: 0.018 ppbv
RT: 6.580 min Scan# 2
Delta R.T. -0.010 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

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#

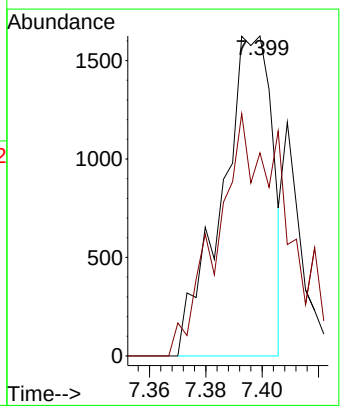


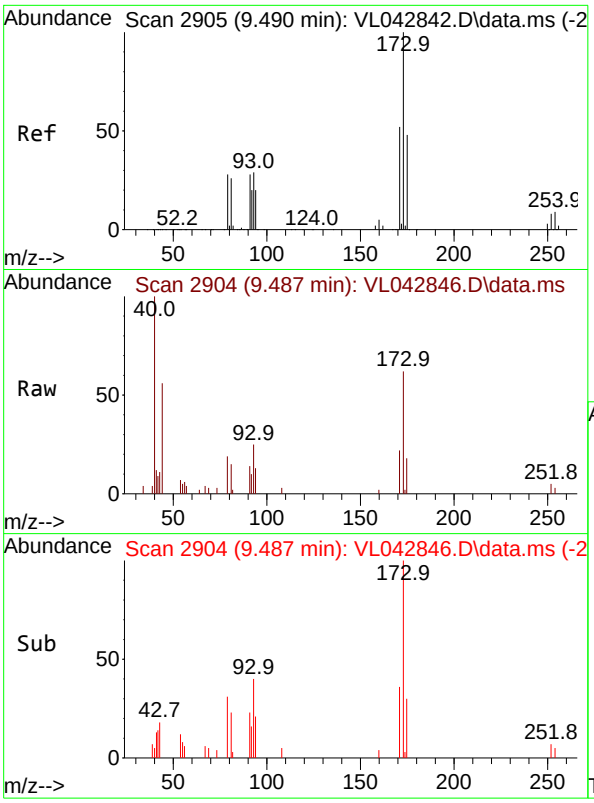


#48
Dibromochloromethane
Concen: 0.088 ppbv
RT: 7.399 min Scan# 2259
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Tgt Ion:129 Resp: 2052

Ion	Ratio	Lower	Upper
129	100		
127	101.4	39.4	118.2



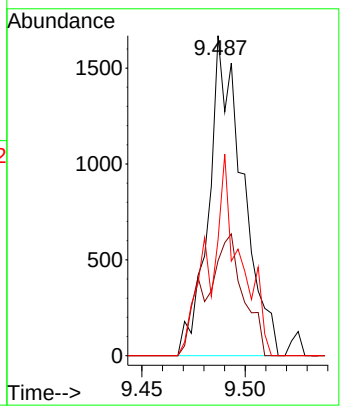


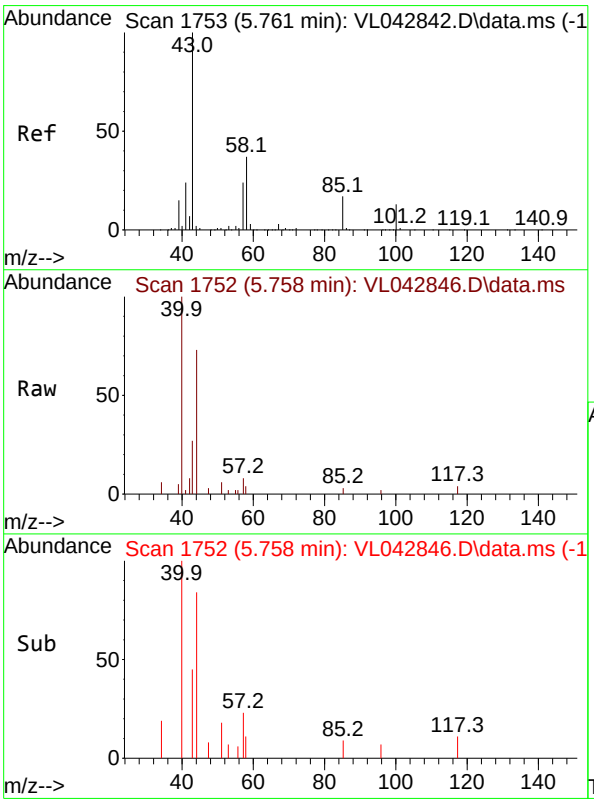
#49
Bromoform
Concen: 0.099 ppbv
RT: 9.487 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

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

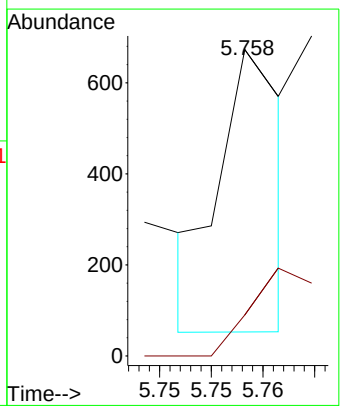


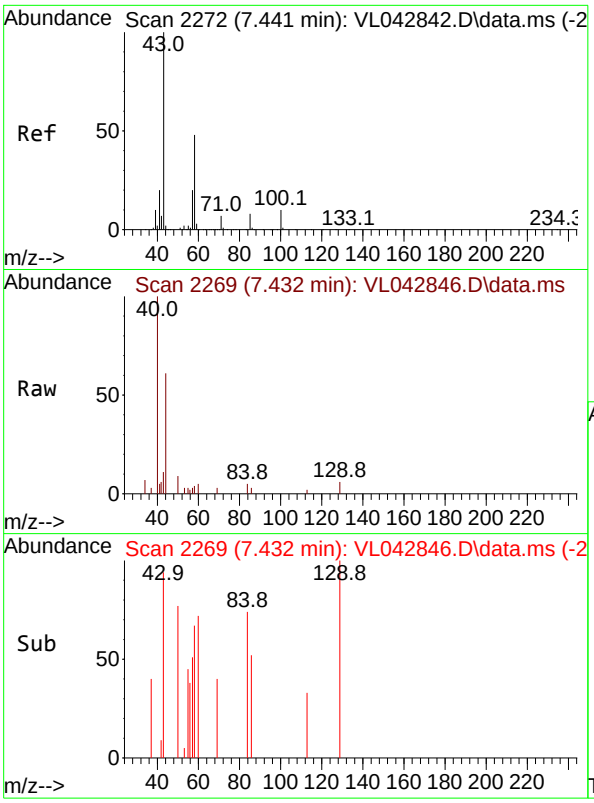


#50
4-Methyl-2-Pentanone
Concen: 0.007 ppbv
RT: 5.758 min Scan# 1752
Delta R.T. -0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Tgt Ion: 43 Resp: 266

Ion	Ratio	Lower	Upper
43	100		
58	0.0	29.8	44.8#



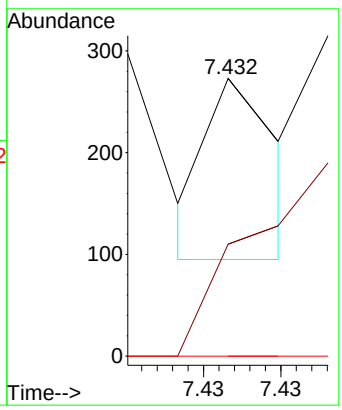


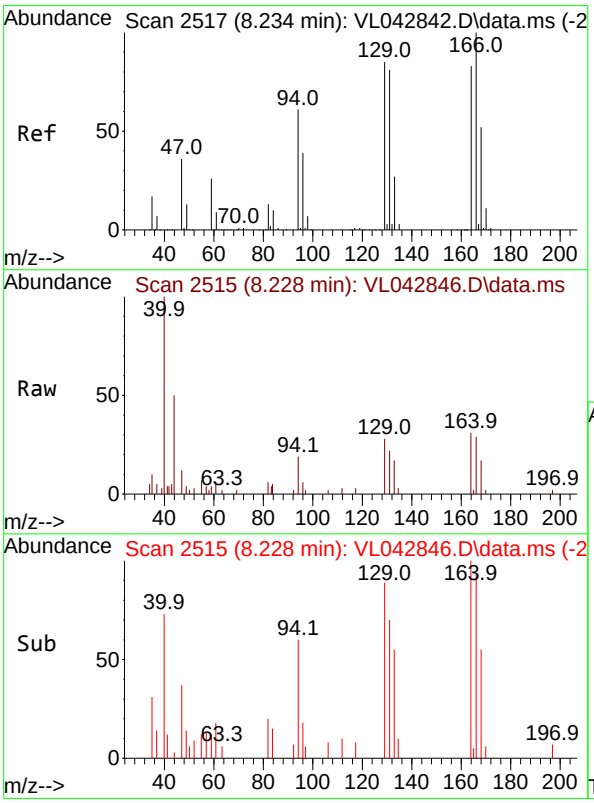
#51
2-Hexanone
Concen: 0.002 ppbv
RT: 7.432 min Scan# 2
Delta R.T. -0.010 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

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#

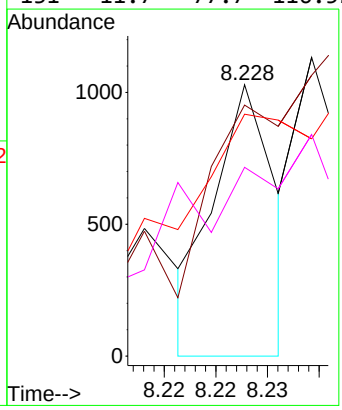


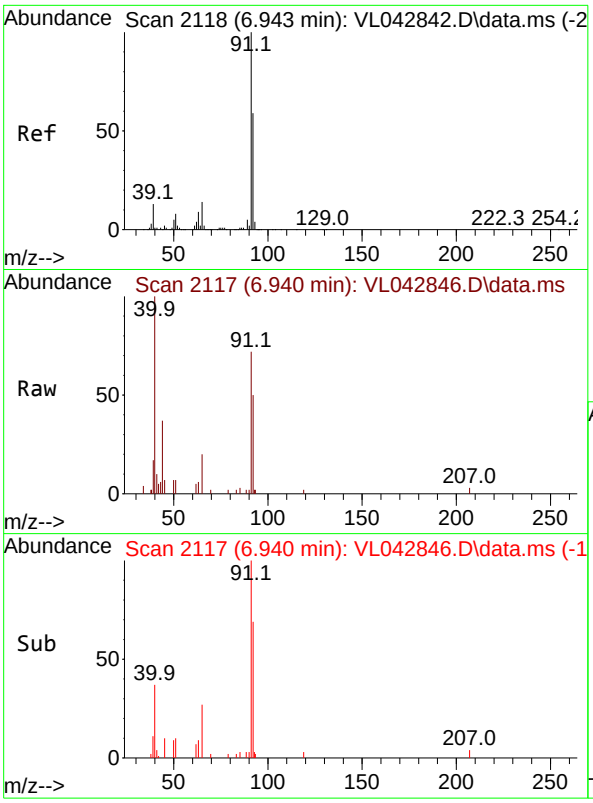


#52
Tetrachloroethene
Concen: 0.031 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. -0.007 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

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#



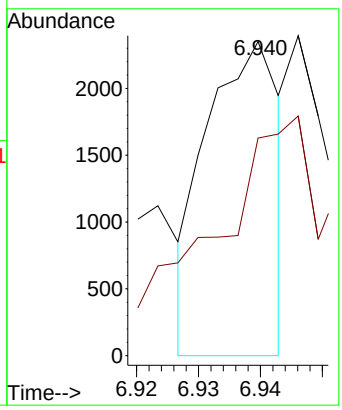


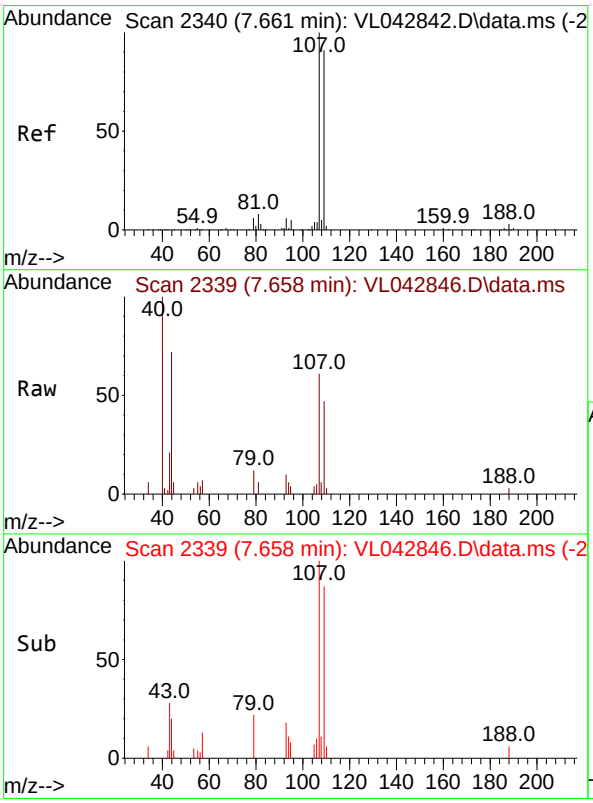
#53
Toluene
Concen: 0.043 ppbv
RT: 6.940 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 91 Resp: 1918

Ion	Ratio	Lower	Upper
91	100		
92	0.0	47.8	71.6#

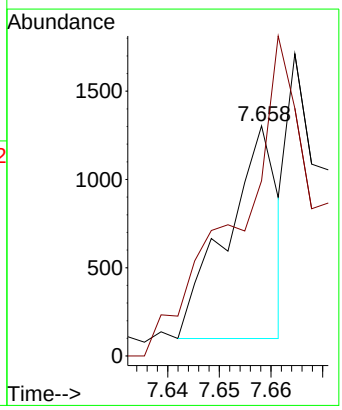


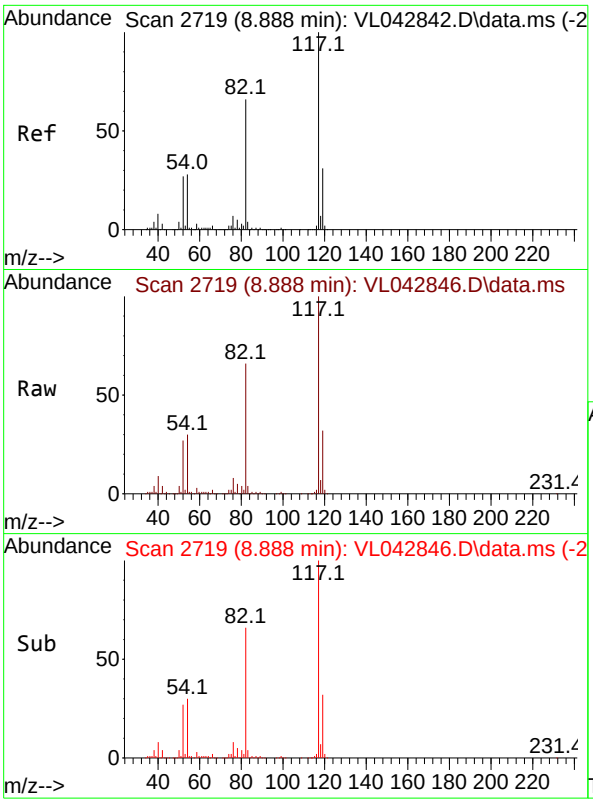


#54
1,2-Dibromoethane
Concen: 0.039 ppbv
RT: 7.658 min Scan# 2339
Delta R.T. -0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Tgt Ion:107 Resp: 828

Ion	Ratio	Lower	Upper
107	100		
109	63.7	72.5	108.7#



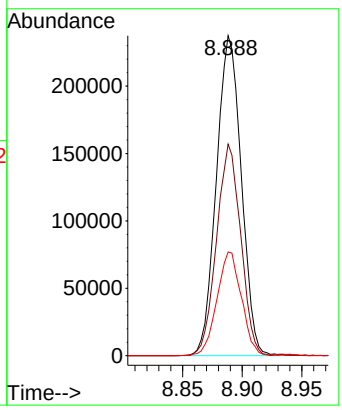


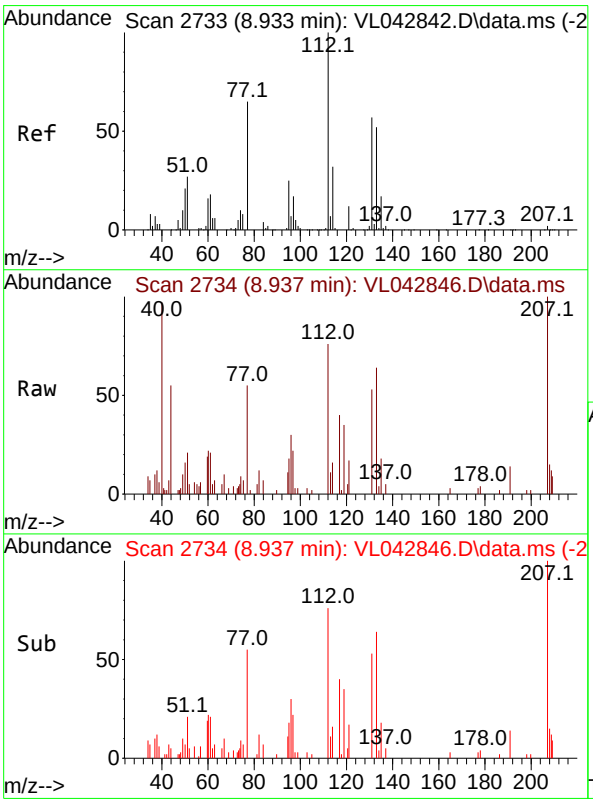
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

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

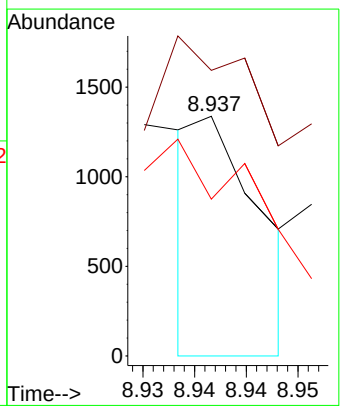


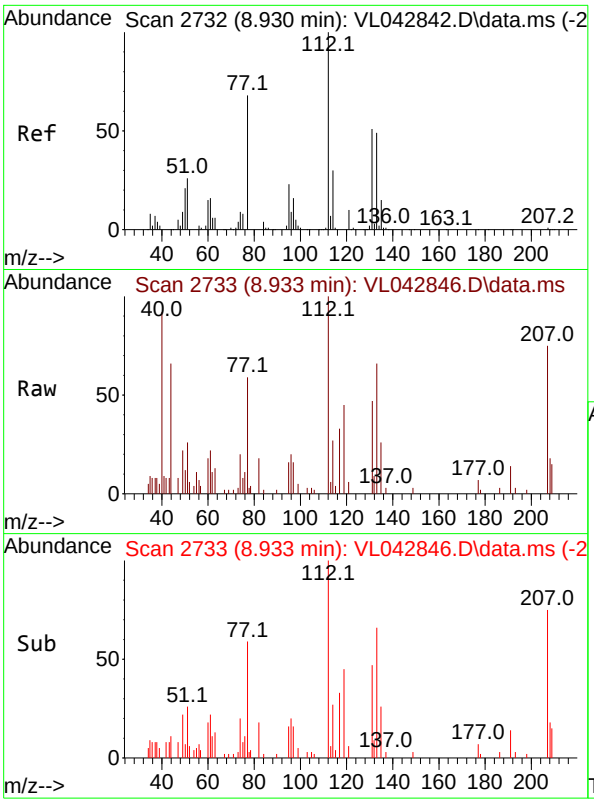


#56
1,1,1,2-Tetrachloroethane
Concen: 0.032 ppbv
RT: 8.937 min Scan# 2734
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

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#



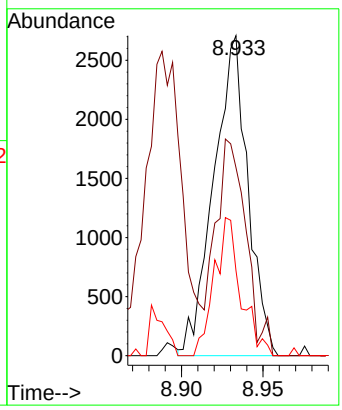


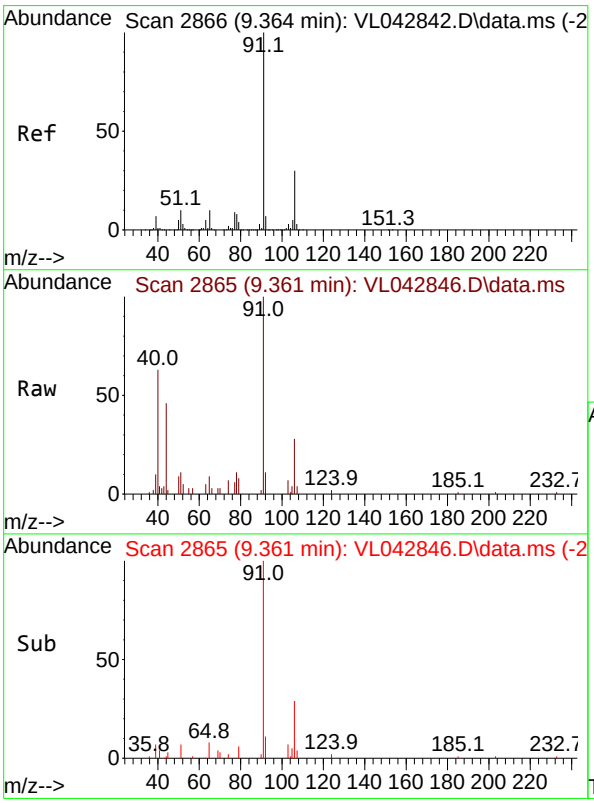
#57
Chlorobenzene
Concen: 0.120 ppbv
RT: 8.933 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

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#

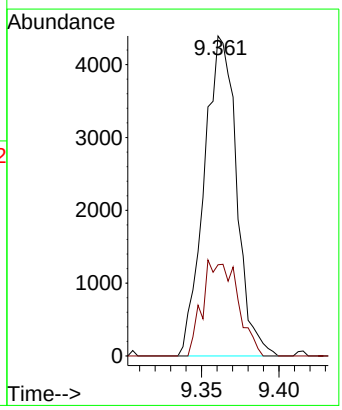


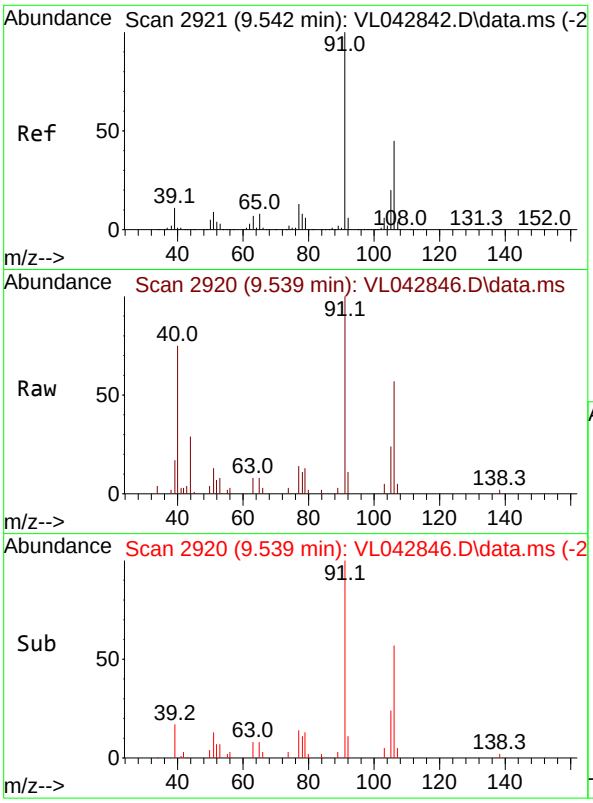


#58
Ethyl Benzene
Concen: 0.105 ppbv
RT: 9.361 min Scan# 2865
Delta R.T. -0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Tgt Ion: 91 Resp: 6413

Ion	Ratio	Lower	Upper
91	100		
106	28.5	23.9	35.9



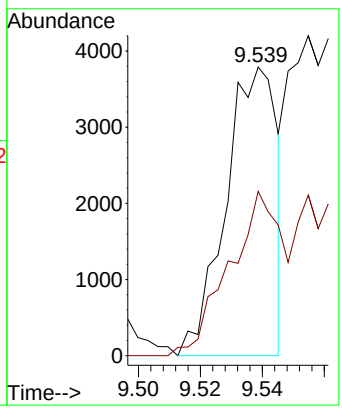


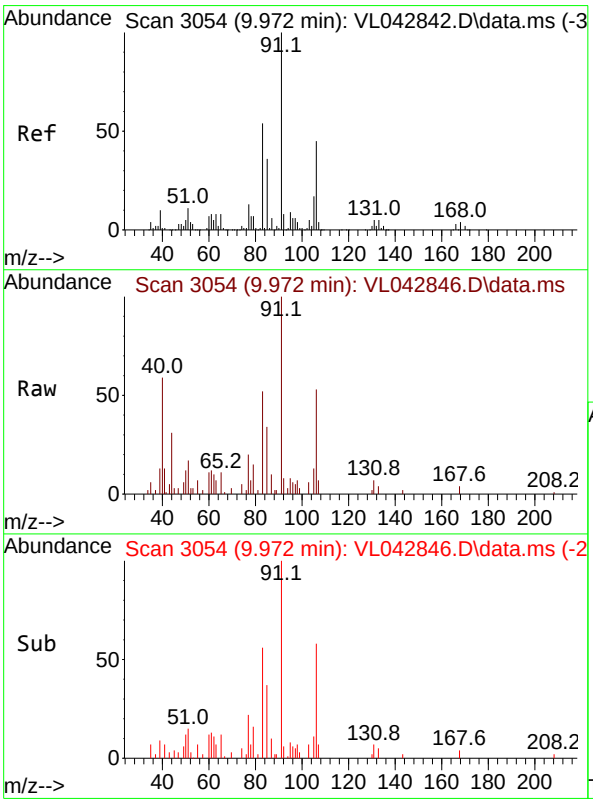
#59
m/p-Xylene
Concen: 0.091 ppbv
RT: 9.539 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 91 Resp: 4356

Ion	Ratio	Lower	Upper
91	100		
106	114.3	0.0	0.0#

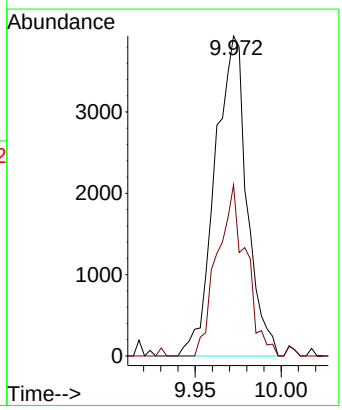


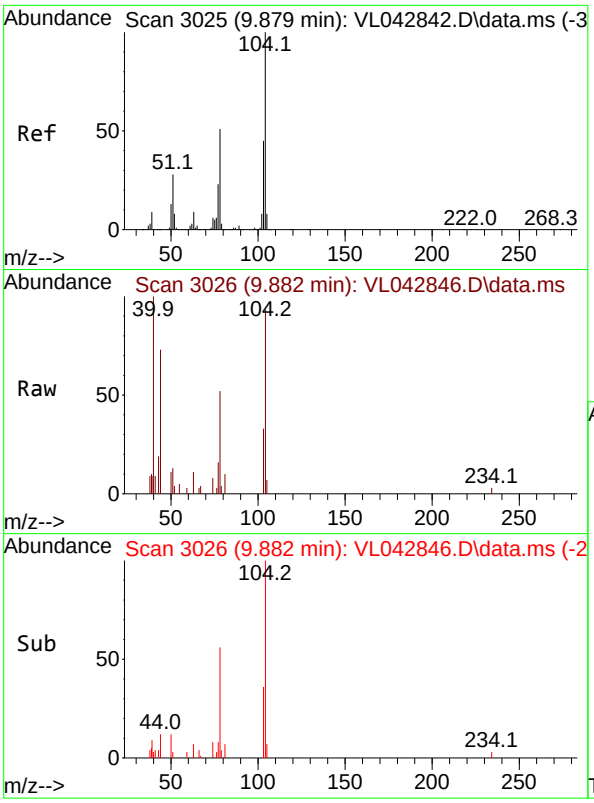


#60
o-Xylene
Concen: 0.106 ppbv
RT: 9.972 min Scan# 3054
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Tgt Ion: 91 Resp: 5090

Ion	Ratio	Lower	Upper
91	100		
106	49.7	21.8	65.4



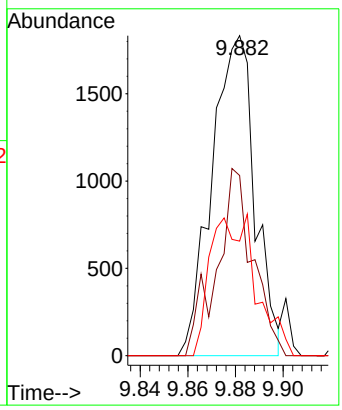


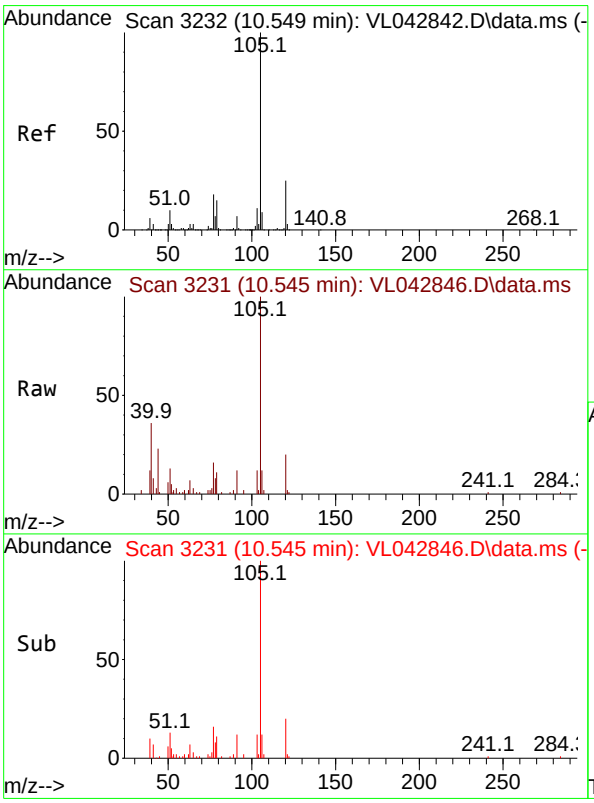
#61
Styrene
Concen: 0.103 ppbv
RT: 9.882 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

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

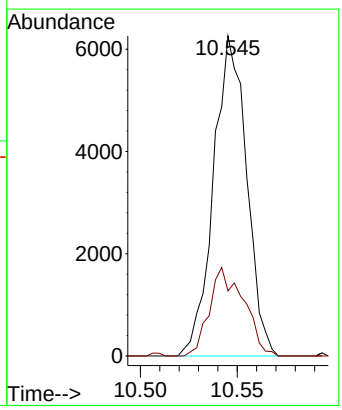


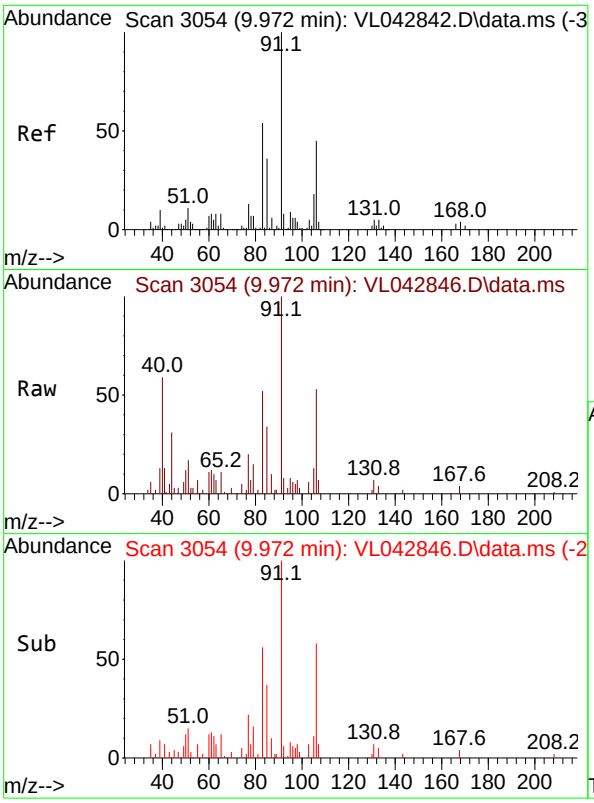


#62
Isopropylbenzene
Concen: 0.106 ppbv
RT: 10.545 min Scan# 3231
Delta R.T. -0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Tgt Ion:105 Resp: 7444

Ion	Ratio	Lower	Upper
105	100		
120	28.9	20.6	30.8



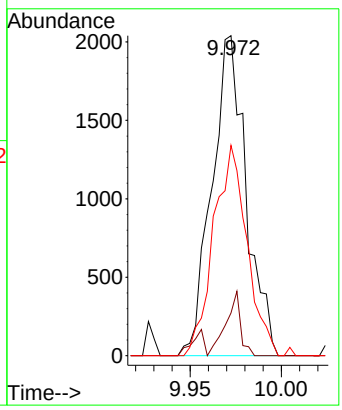


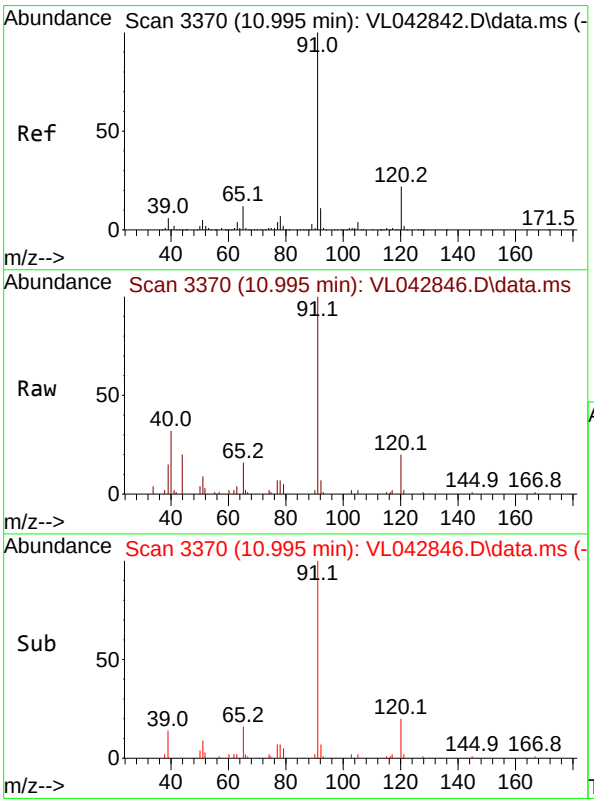
#63
1,1,2,2-Tetrachloroethane
Concen: 0.102 ppbv
RT: 9.972 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

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

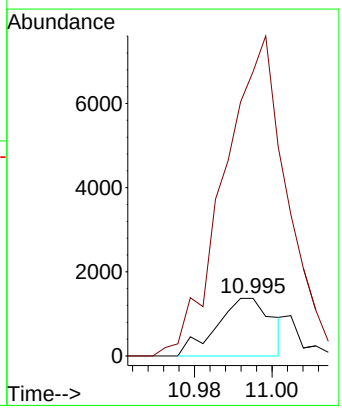


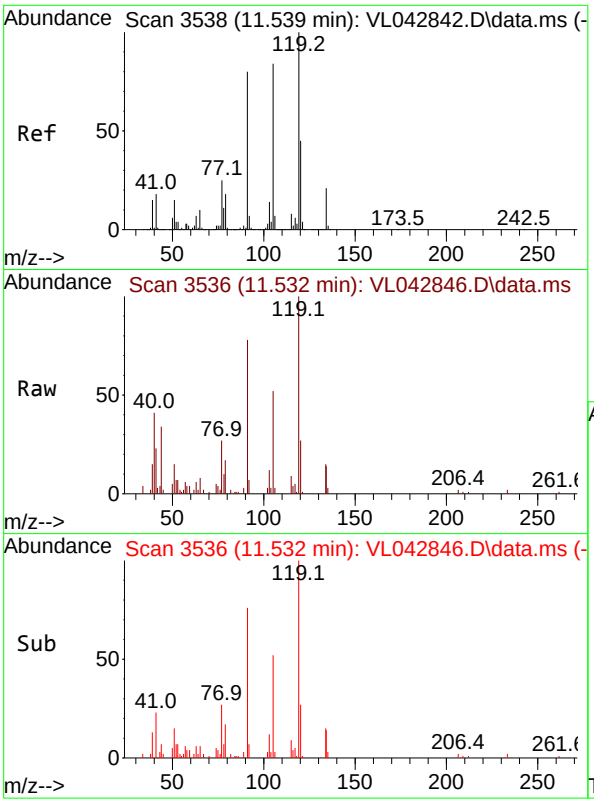


#64
n-propylbenzene
Concen: 0.077 ppbv
RT: 10.995 min Scan# 3370
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Tgt Ion:120 Resp: 1372

Ion	Ratio	Lower	Upper
120	100		
91	640.0	375.8	563.6#



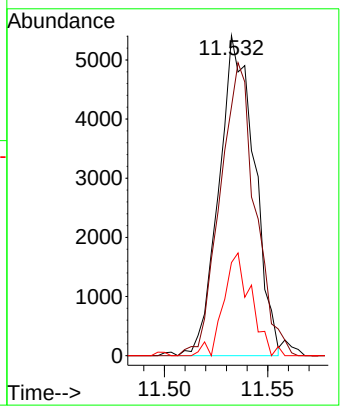


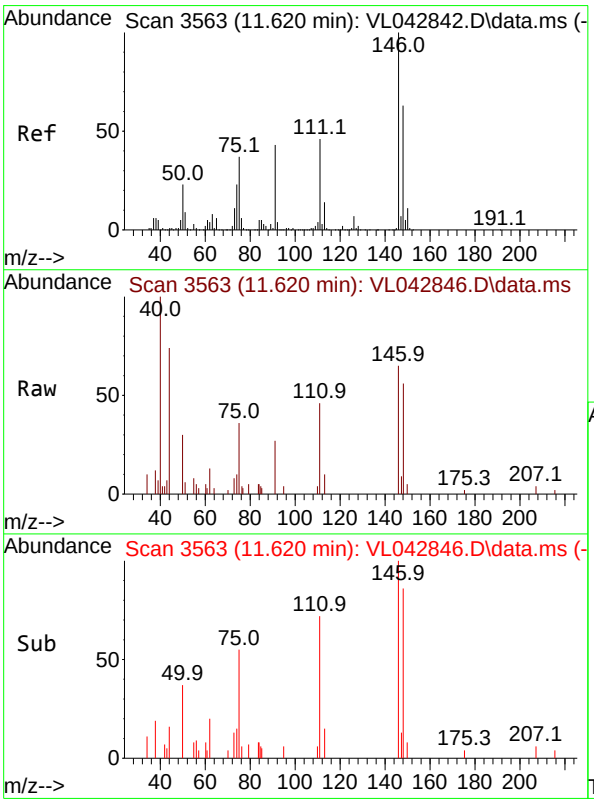
#65
tert-Butylbenzene
Concen: 0.104 ppbv
RT: 11.532 min Scan# 3
Delta R.T. -0.006 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

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

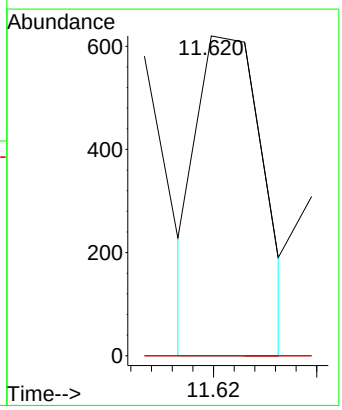


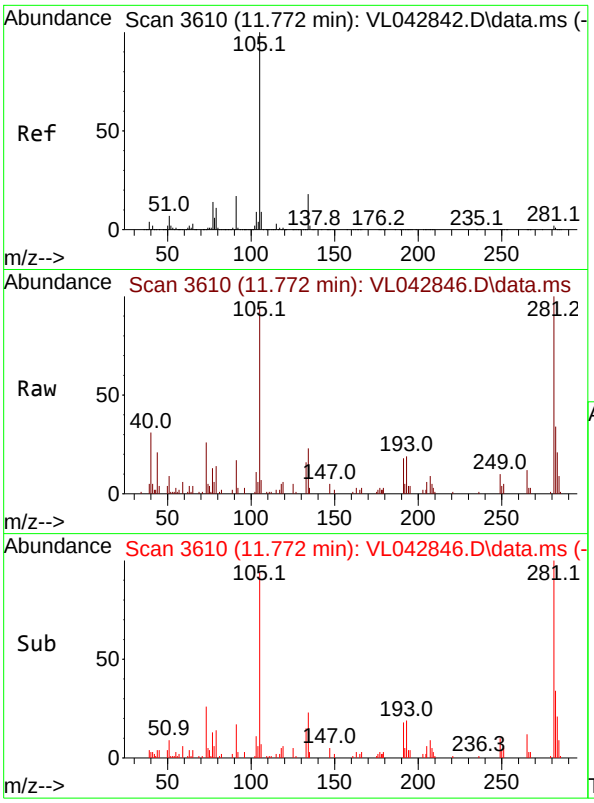


#66
Benzyl Chloride
Concen: 0.035 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

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#



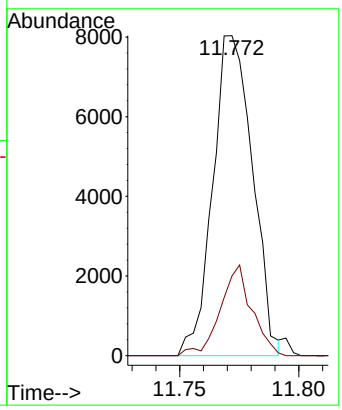


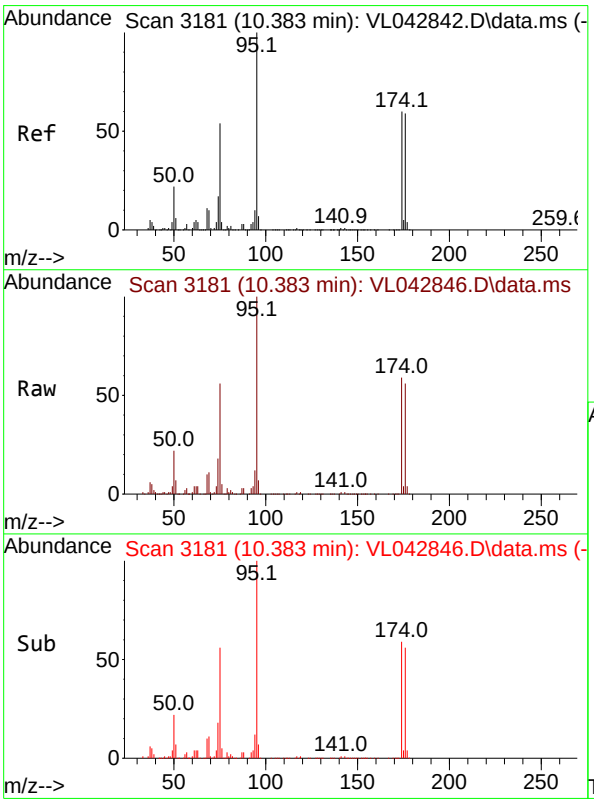
#67
sec-Butylbenzene
Concen: 0.107 ppbv
RT: 11.772 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:105 Resp: 9332

Ion	Ratio	Lower	Upper
105	100		
134	22.4	14.9	22.3#

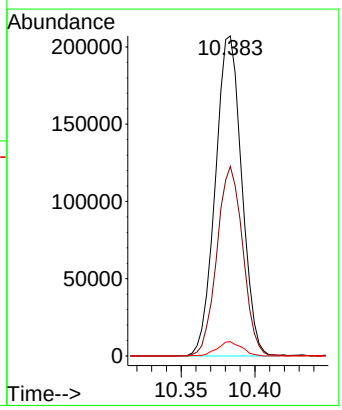


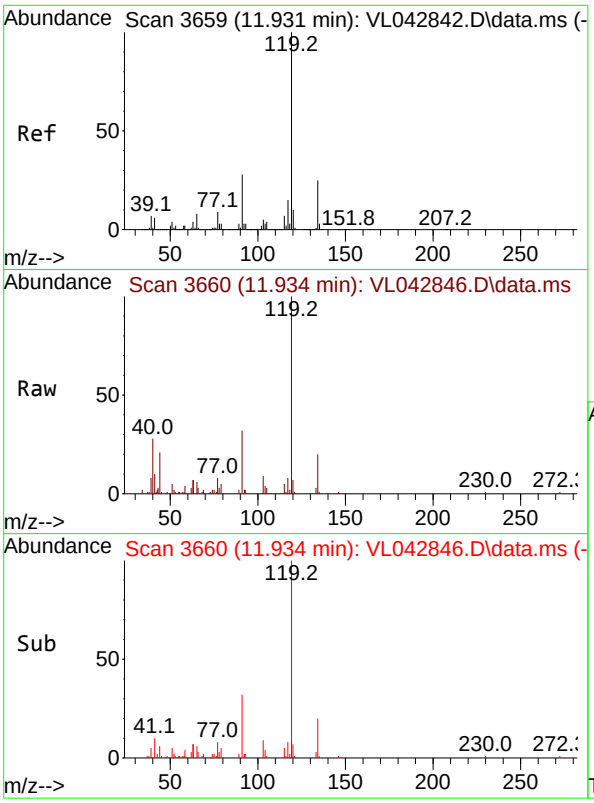


#68
1-Bromo-4-Fluorobenzene
Concen: 9.948 ppbv
RT: 10.383 min Scan# 3181
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

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



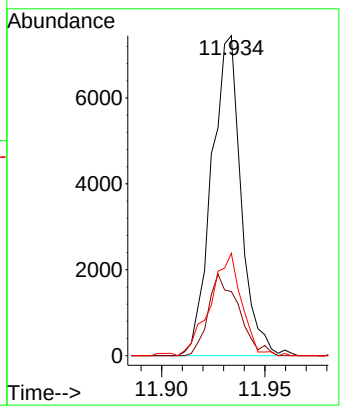


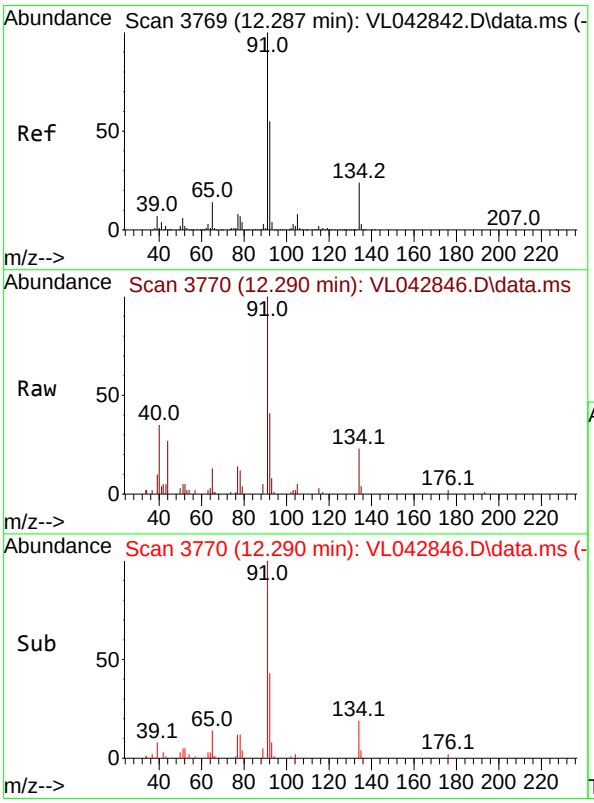
#69
p-Isopropyltoluene
Concen: 0.099 ppbv
RT: 11.934 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

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#

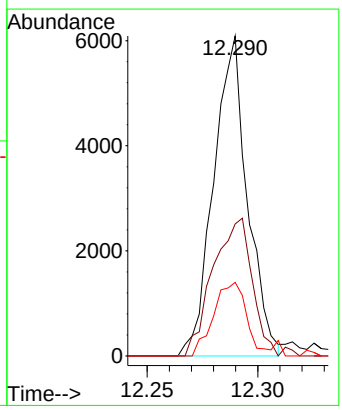


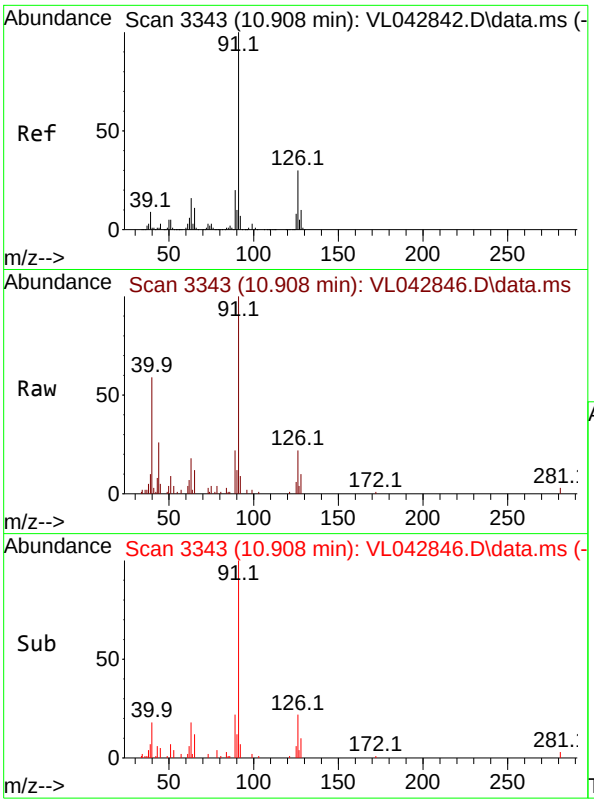


#70
n-Butylbenzene
Concen: 0.087 ppbv
RT: 12.290 min Scan# 3770
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

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



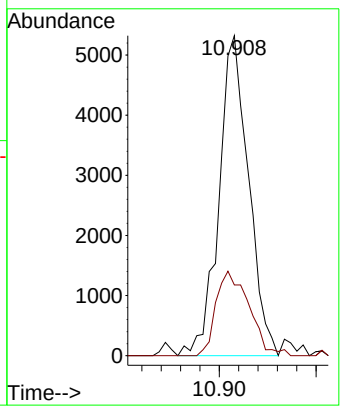


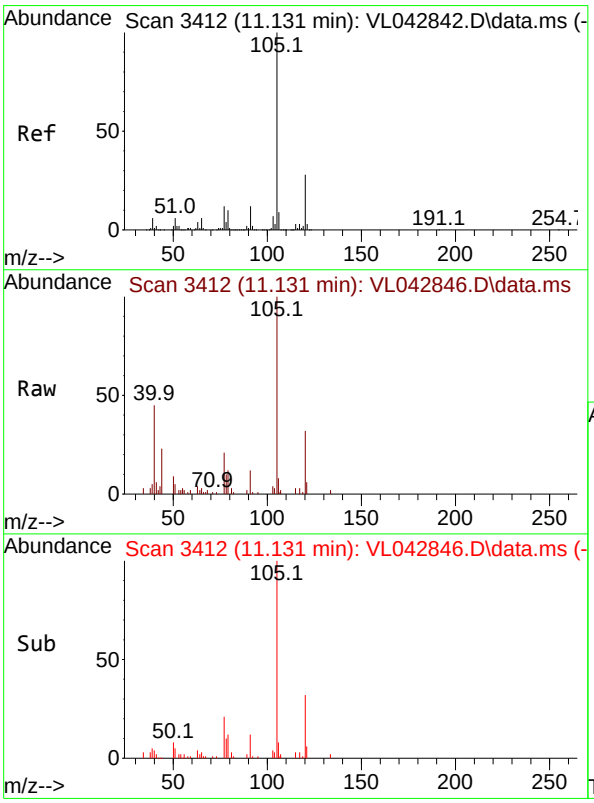
#71
2-Chlorotoluene
Concen: 0.104 ppbv
RT: 10.908 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 91 Resp: 5660

Ion	Ratio	Lower	Upper
91	100		
126	29.8	12.0	47.8

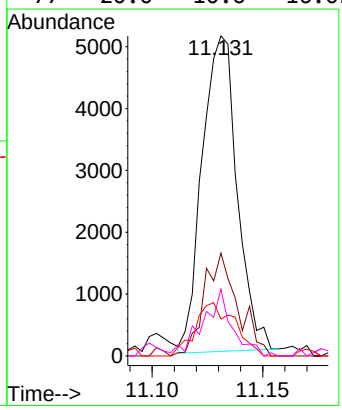


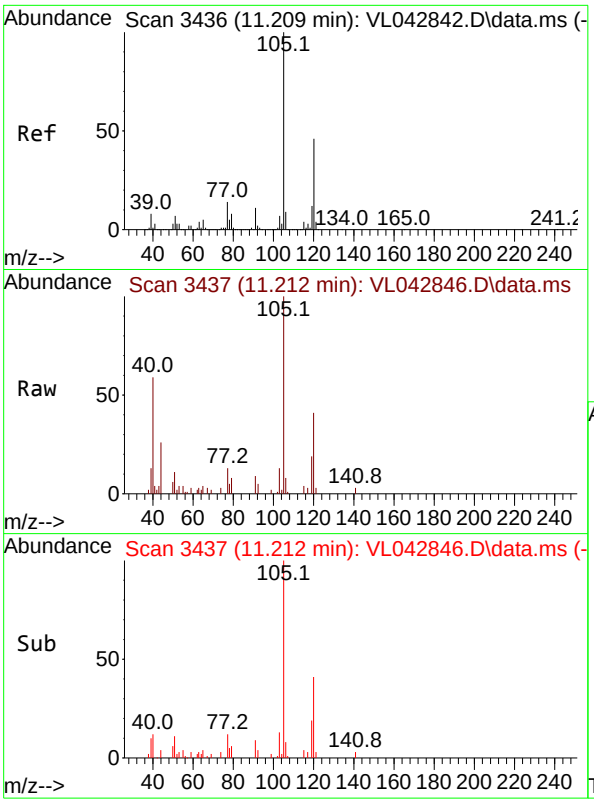


#72
4-Ethyltoluene
Concen: 0.097 ppbv
RT: 11.131 min Scan# 3412
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

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#



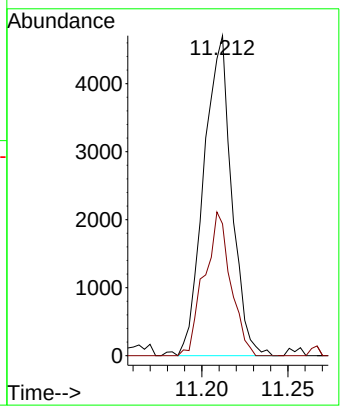


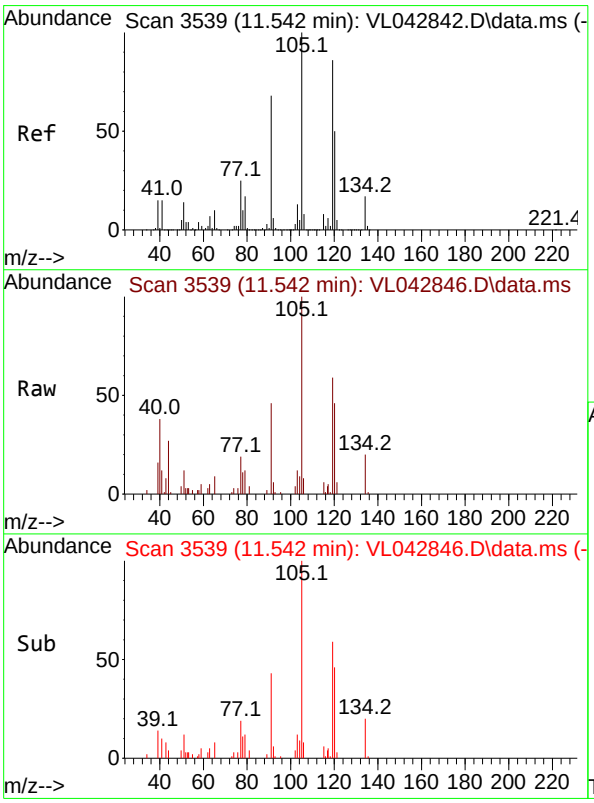
#73
1,3,5-Trimethylbenzene
Concen: 0.107 ppbv
RT: 11.212 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:105 Resp: 5297

Ion	Ratio	Lower	Upper
105	100		
120	41.2	36.6	54.8

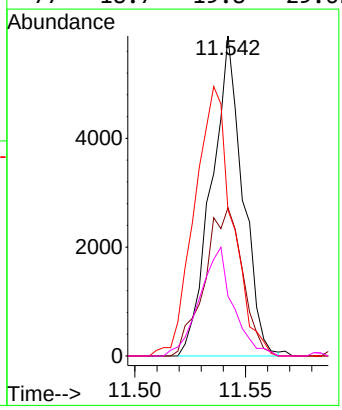


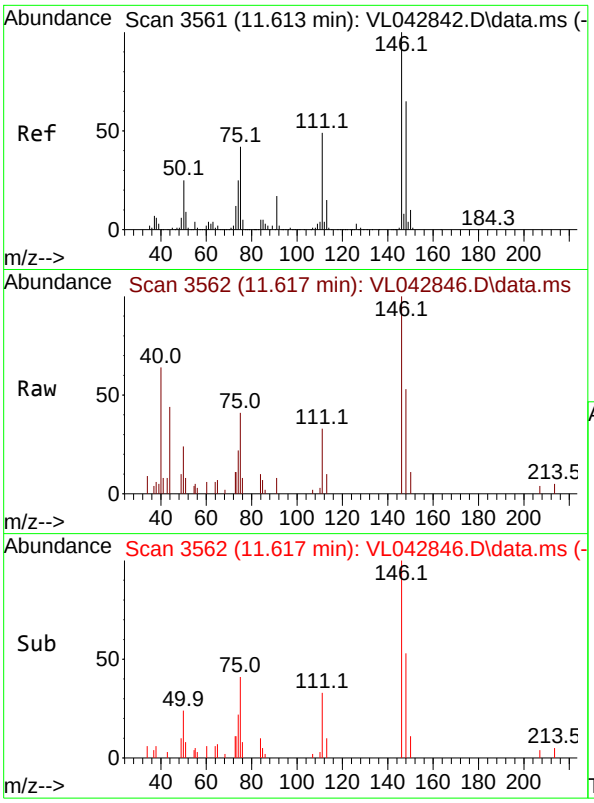


#74
1,2,4-Trimethylbenzene
Concen: 0.106 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

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#



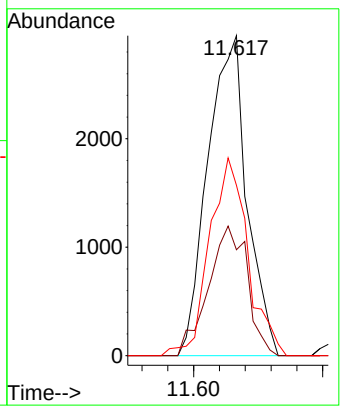


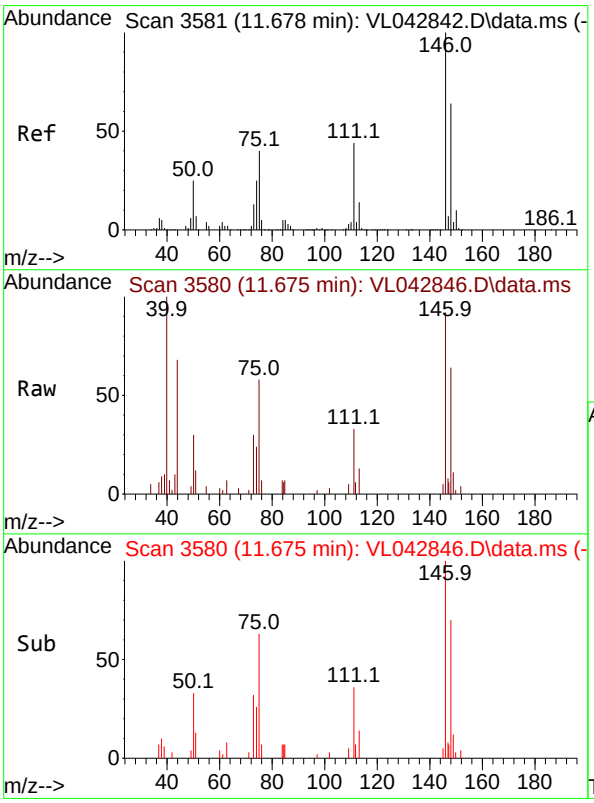
#75
1,3-Dichlorobenzene
Concen: 0.101 ppbv
RT: 11.617 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

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

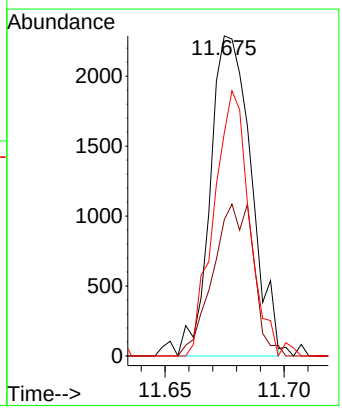


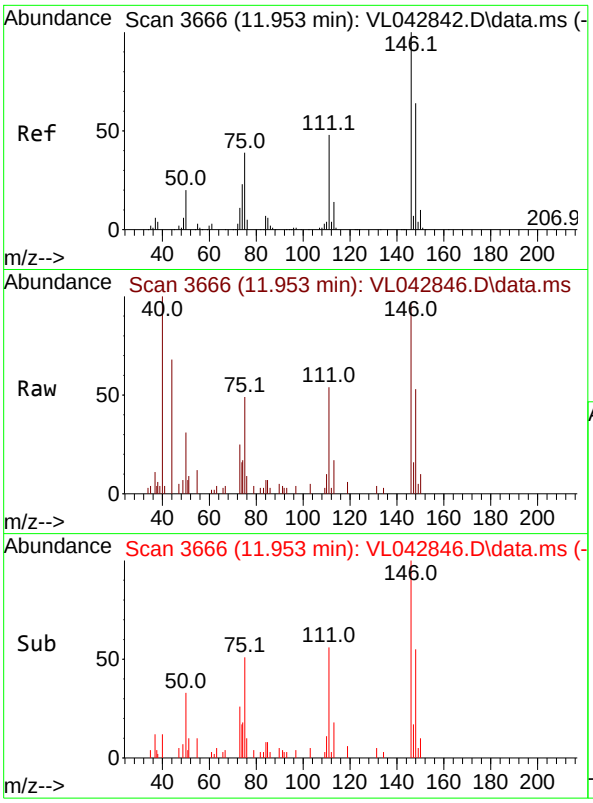


#76
1,4-Dichlorobenzene
Concen: 0.087 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. -0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

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



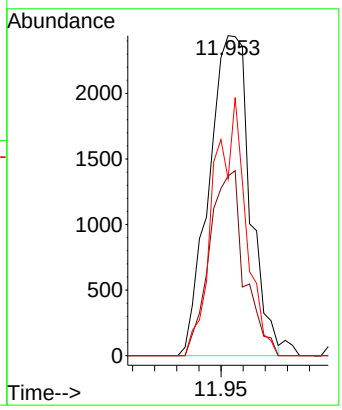


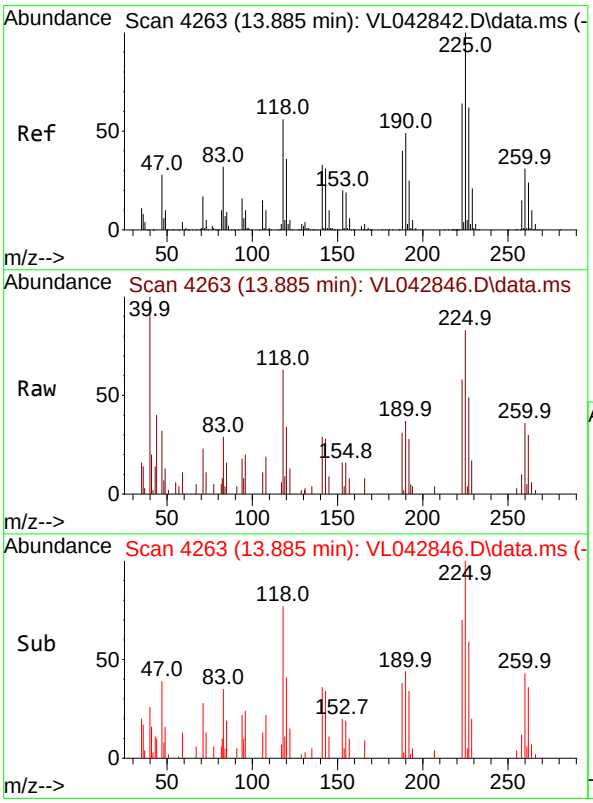
#77
1,2-Dichlorobenzene
Concen: 0.104 ppbv
RT: 11.953 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

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

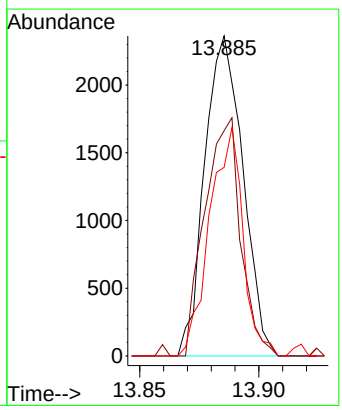


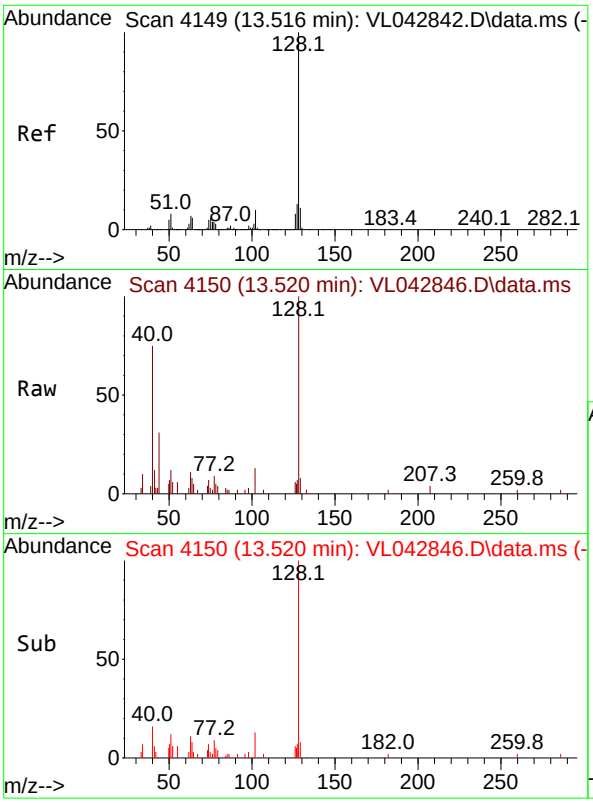


#78
Hexachloro-1,3-Butadiene
Concen: 0.106 ppbv
RT: 13.885 min Scan# 4263
Delta R.T. -0.000 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

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



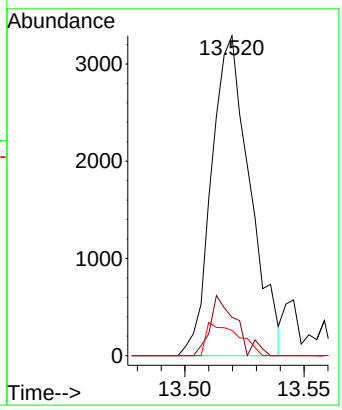


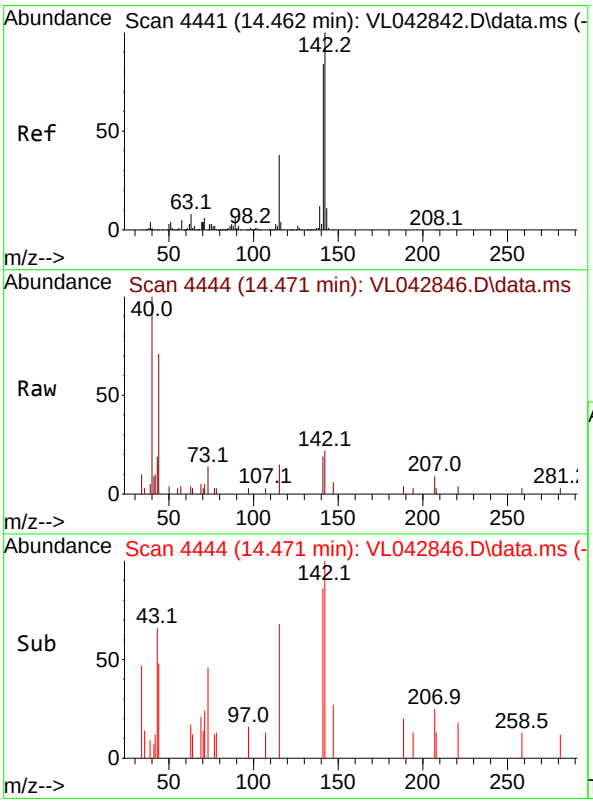
#79
Naphthalene
Concen: 0.075 ppbv
RT: 13.520 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

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#

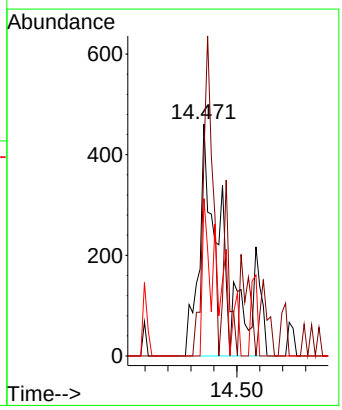


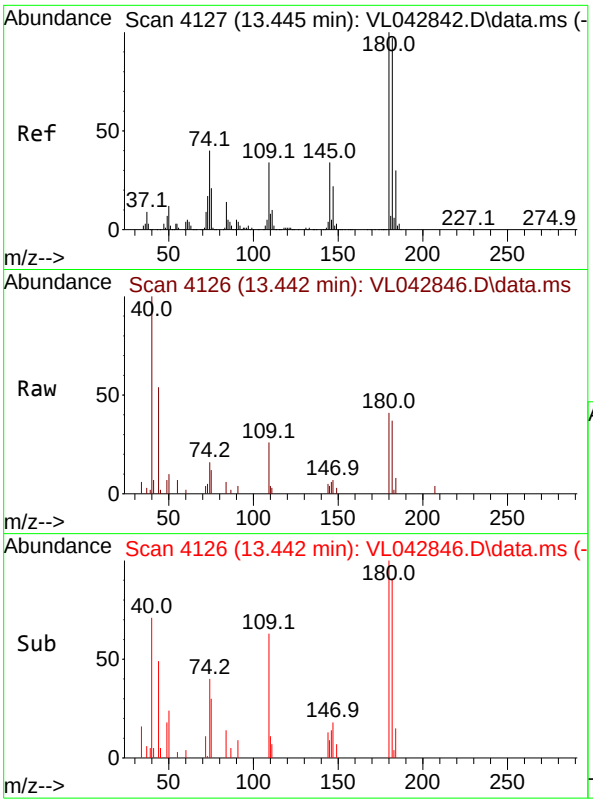


#80
Naphthalene,2-methyl-
Concen: 0.037 ppbv
RT: 14.471 min Scan# 4444
Delta R.T. 0.010 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

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



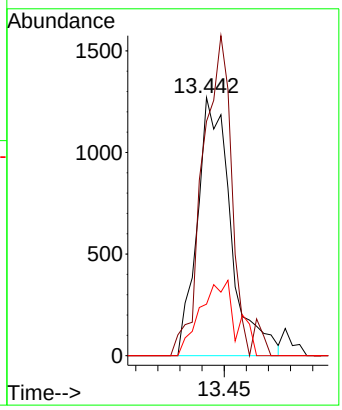


#81
1,2,4-Trichlorobenzene
Concen: 0.054 ppbv
RT: 13.442 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042846.D
Acq: 13 Aug 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

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



Quantitation Report (Not Reviewed)

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_LFri 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

Quantitation Report (Not Reviewed)

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_LFri Aug 26 06:05:16 2022
QLast Update : Thu Aug 14 01:44:36 2025
Response via : Initial Calibration

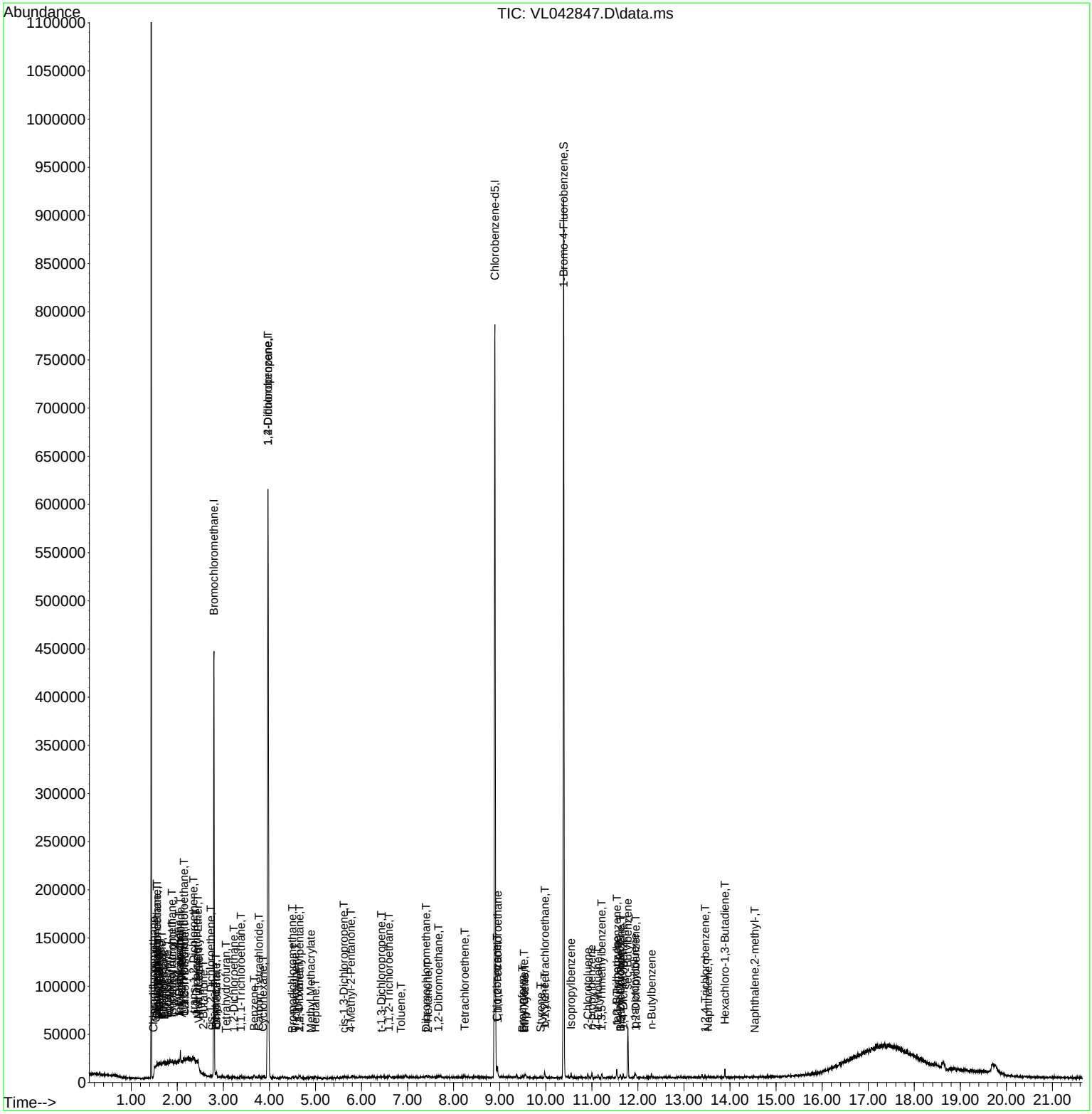
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.612	75	343	0.016	ppbv	#	65
47) 1,1,2-Trichloroethane	6.593	97	30	0.002	ppbv	#	27
48) Dibromochloromethane	7.399	129	593	0.025	ppbv		71
49) Bromoform	9.493	173	431	0.022	ppbv		93
50) 4-Methyl-2-Pentanone	5.768	43	54	0.002	ppbv	#	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

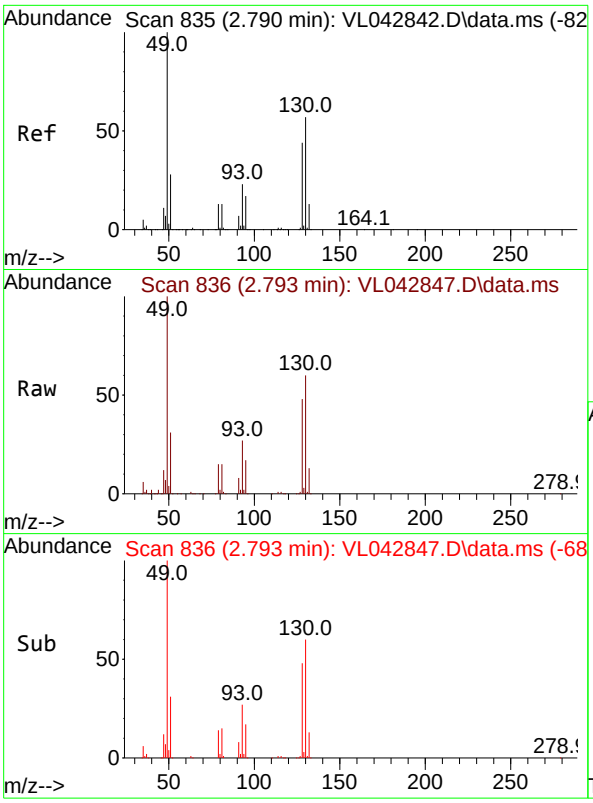
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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_LFri Aug 26 06:05:16 2022
QLast Update : Thu Aug 14 01:44:36 2025
Response via : Initial Calibration



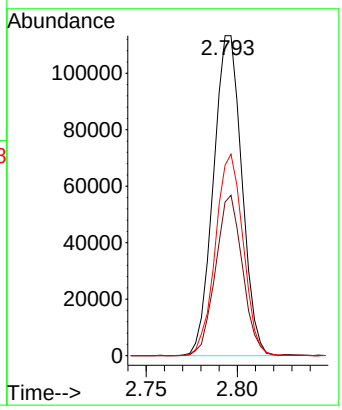


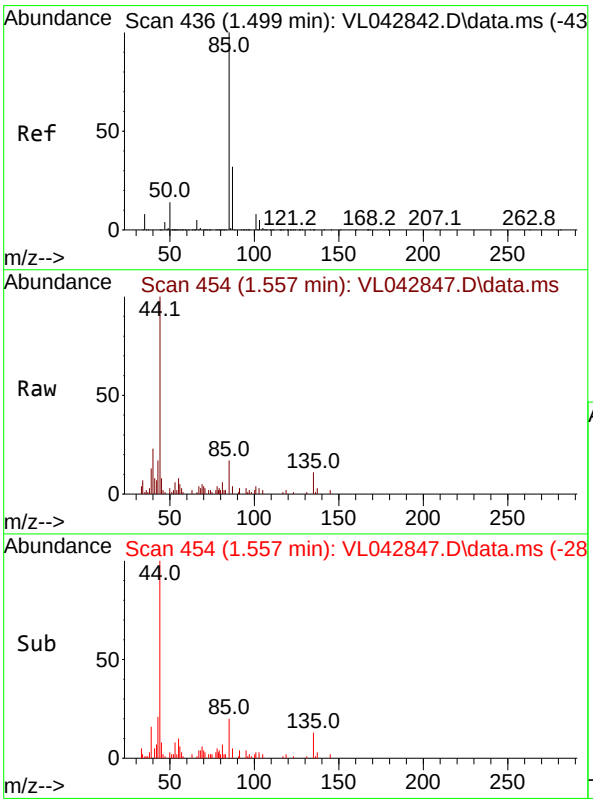
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 49 Resp: 122705

Ion	Ratio	Lower	Upper
49	100		
128	47.7	23.7	71.1
130	61.6	30.6	91.6

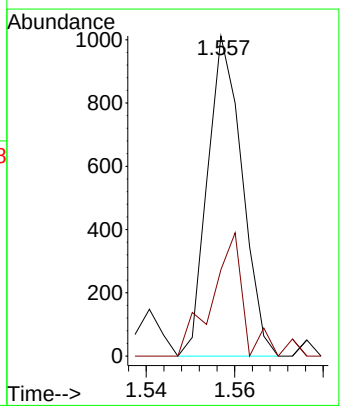


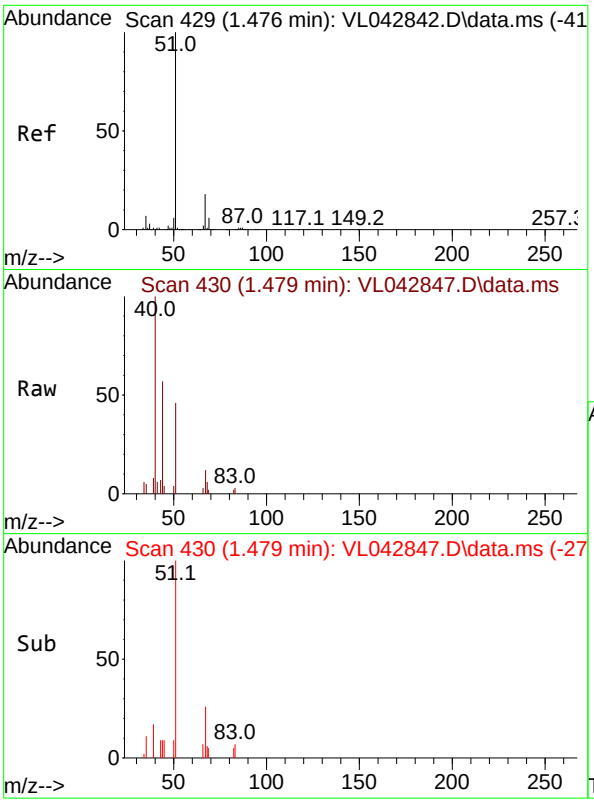


#2
Dichlorodifluoromethane
Concen: 0.031 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.058 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Tgt Ion: 85 Resp: 549

Ion	Ratio	Lower	Upper
85	100		
87	27.0	25.3	37.9



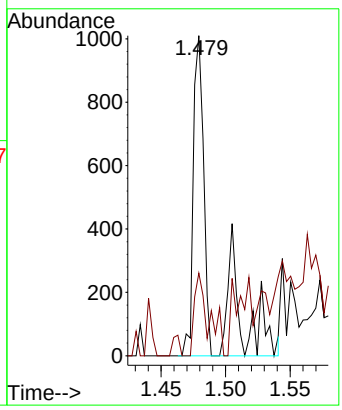


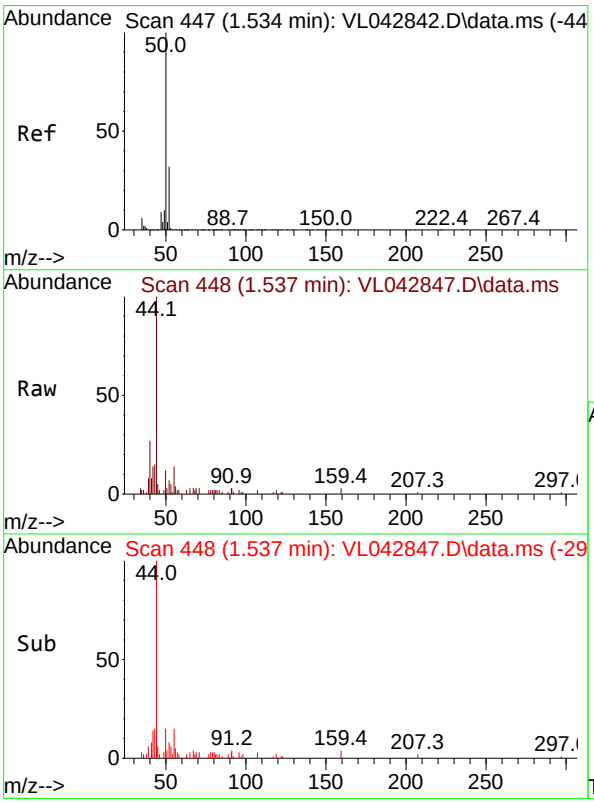
#3
Chlorodifluoromethane
Concen: 0.044 ppbv
RT: 1.479 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 51 Resp: 868

Ion	Ratio	Lower	Upper
51	100		
67	26.4	14.9	22.3#

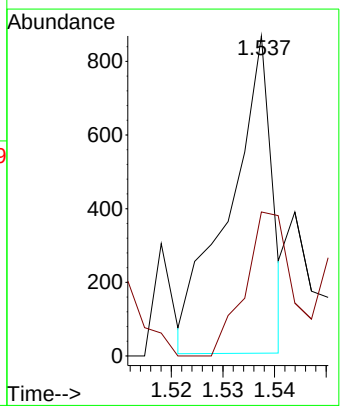


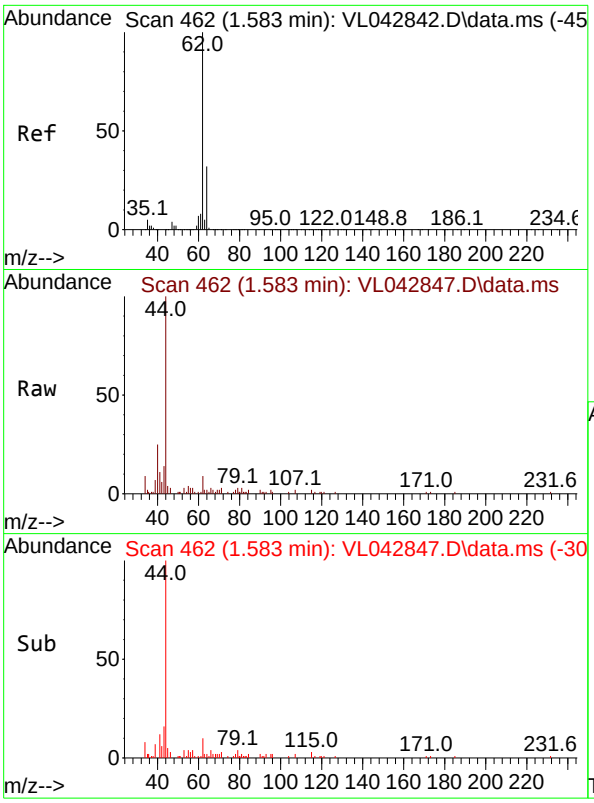


#4
Chloromethane
Concen: 0.069 ppbv
RT: 1.537 min Scan# 448
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Tgt Ion: 50 Resp: 498

Ion	Ratio	Lower	Upper
50	100		
52	49.3	25.9	38.9#



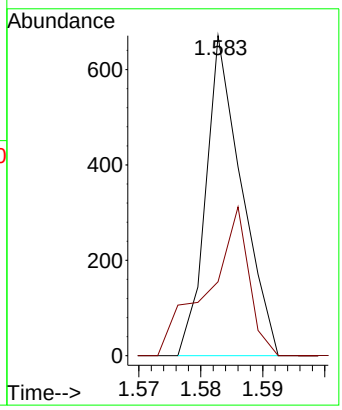


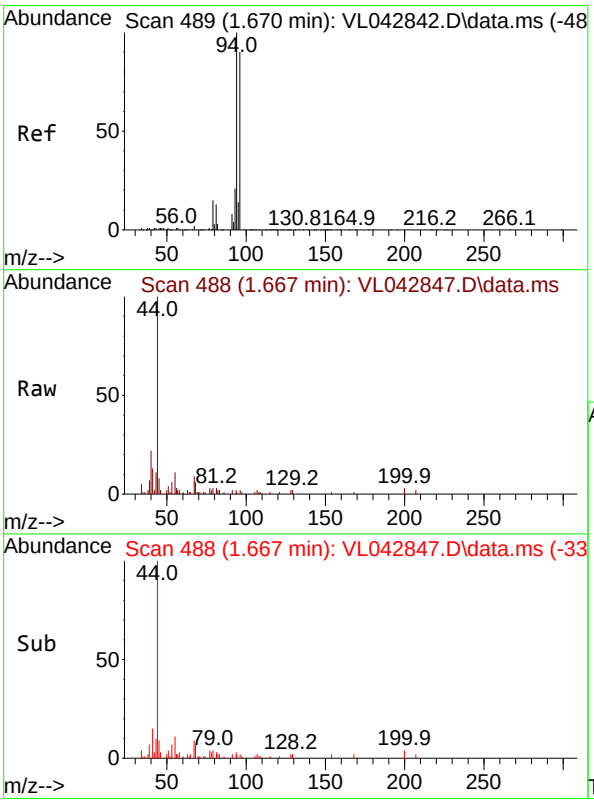
#5
Vinyl Chloride
Concen: 0.037 ppbv
RT: 1.583 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 62 Resp: 268

Ion	Ratio	Lower	Upper
62	100		
64	21.2	25.4	38.2#

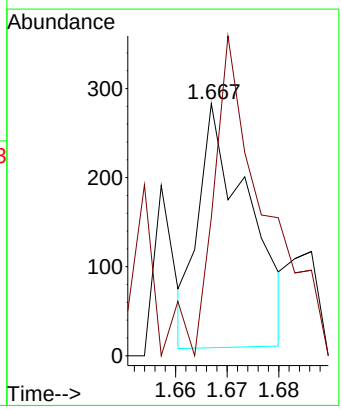


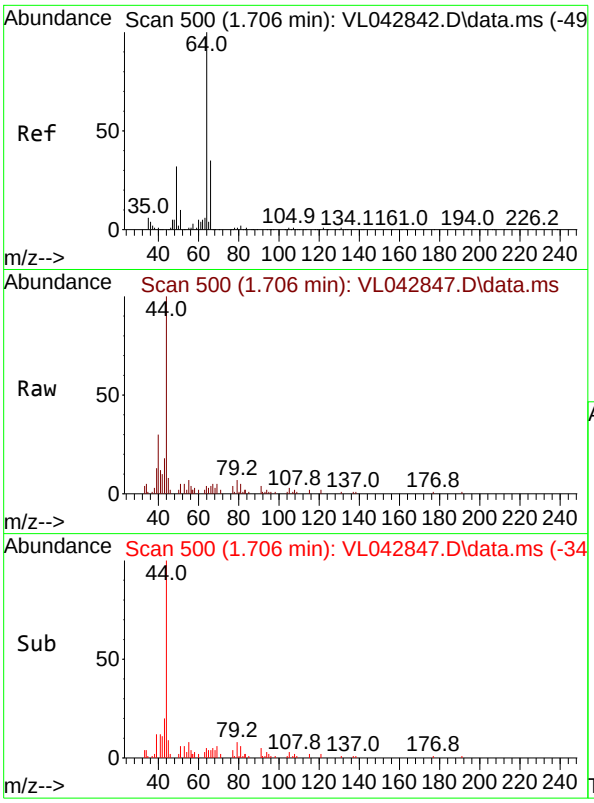


#6
Bromomethane
Concen: 0.064 ppbv
RT: 1.667 min Scan# 488
Delta R.T. -0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Tgt Ion: 94 Resp: 184

Ion	Ratio	Lower	Upper
94	100		
96	45.2	72.1	108.1#



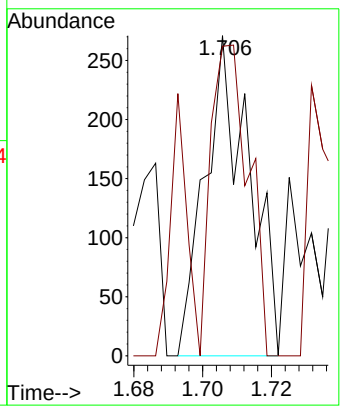


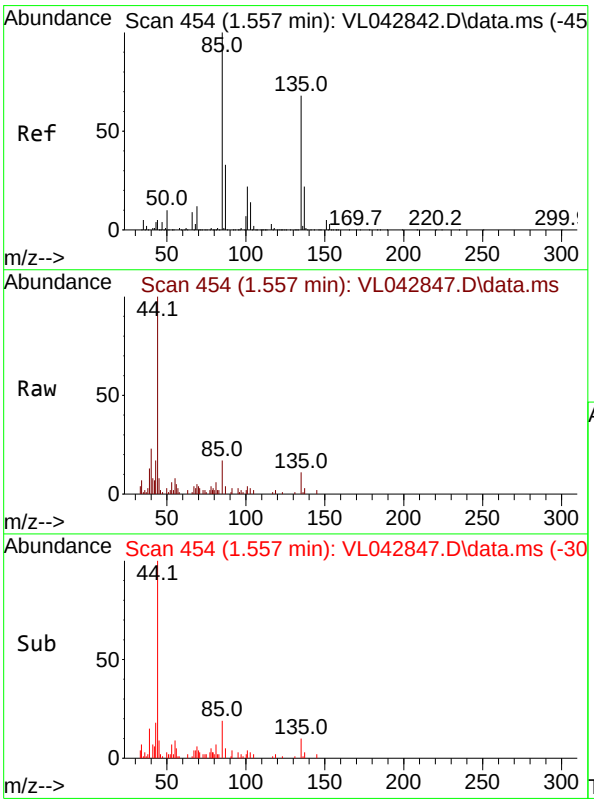
#7
Chloroethane
Concen: 0.086 ppbv
RT: 1.706 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 64 Resp: 240

Ion	Ratio	Lower	Upper
64	100		
66	96.7	28.6	42.8#

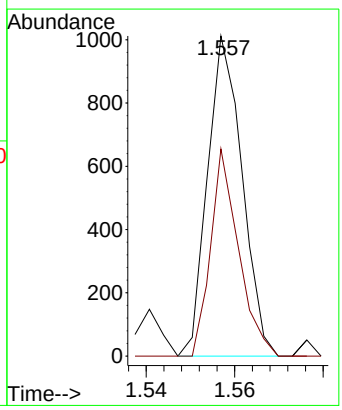


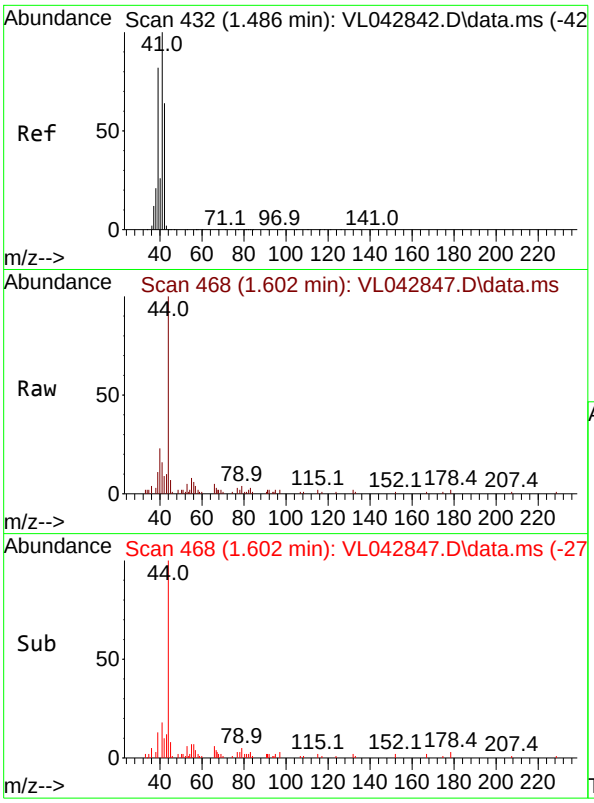


#8
Dichlorotetrafluoroethane
Concen: 0.037 ppbv
RT: 1.557 min Scan# 454
Delta R.T. -0.000 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Tgt Ion: 85 Resp: 549

Ion	Ratio	Lower	Upper
85	100		
135	52.3	51.2	76.8



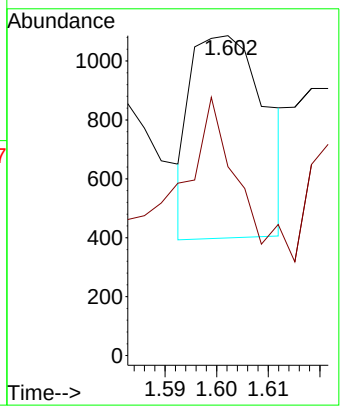


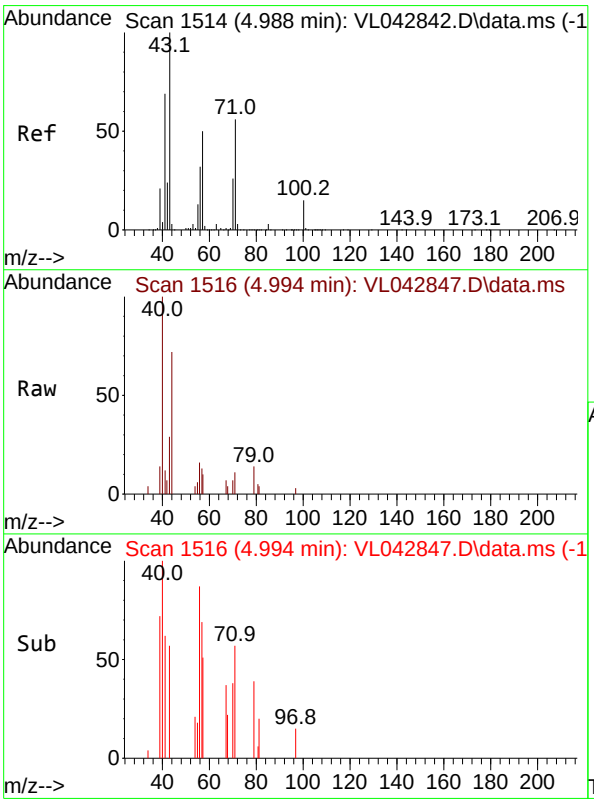
#9
Propene
Concen: 0.080 ppbv
RT: 1.602 min Scan# 4
Delta R.T. 0.116 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 41 Resp: 687

Ion	Ratio	Lower	Upper
41	100		
42	72.1	53.0	79.4

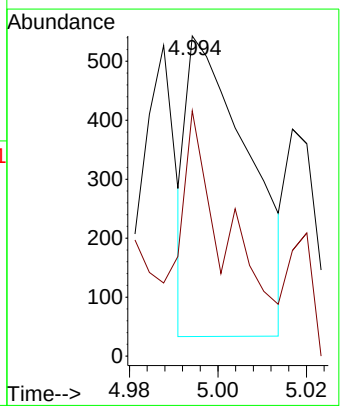


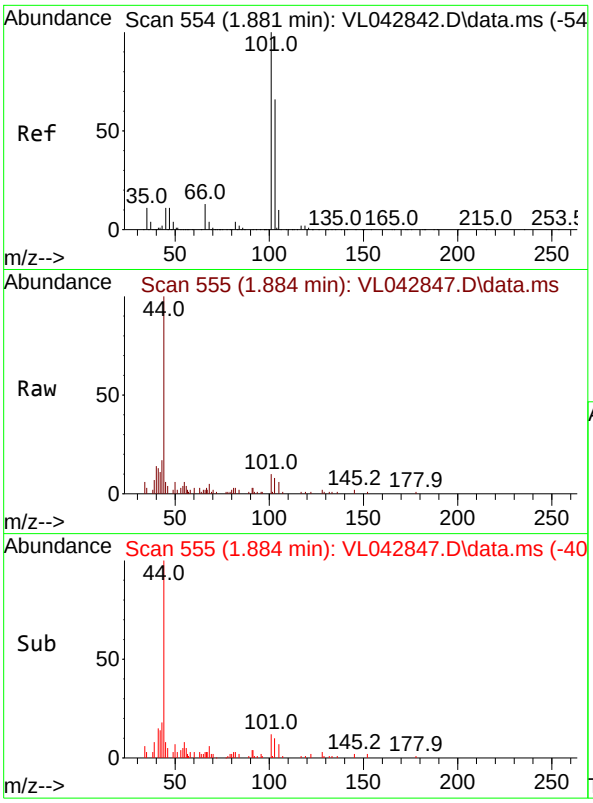


#10
Heptane
Concen: 0.021 ppbv
RT: 4.994 min Scan# 1516
Delta R.T. 0.006 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Tgt Ion: 43 Resp: 492

Ion	Ratio	Lower	Upper
43	100		
57	137.2	41.4	62.0#



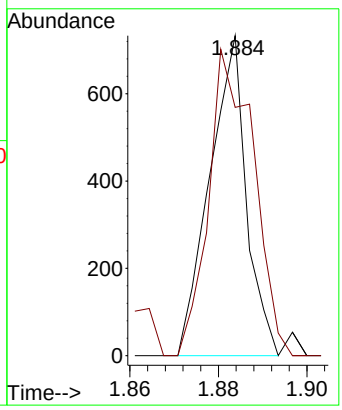


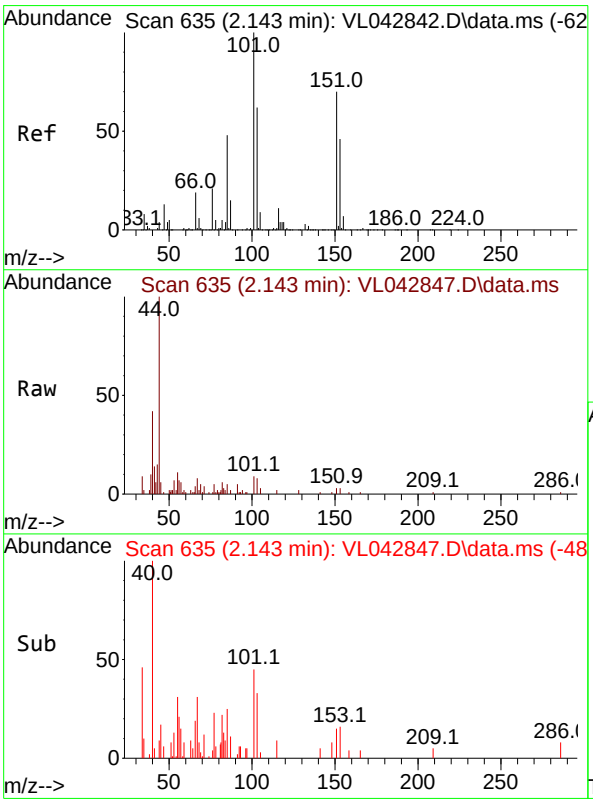
#11
Trichlorofluoromethane
Concen: 0.024 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:101 Resp: 420

Ion	Ratio	Lower	Upper
101	100		
103	69.7	52.5	78.7

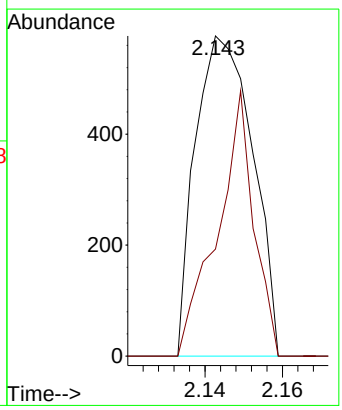


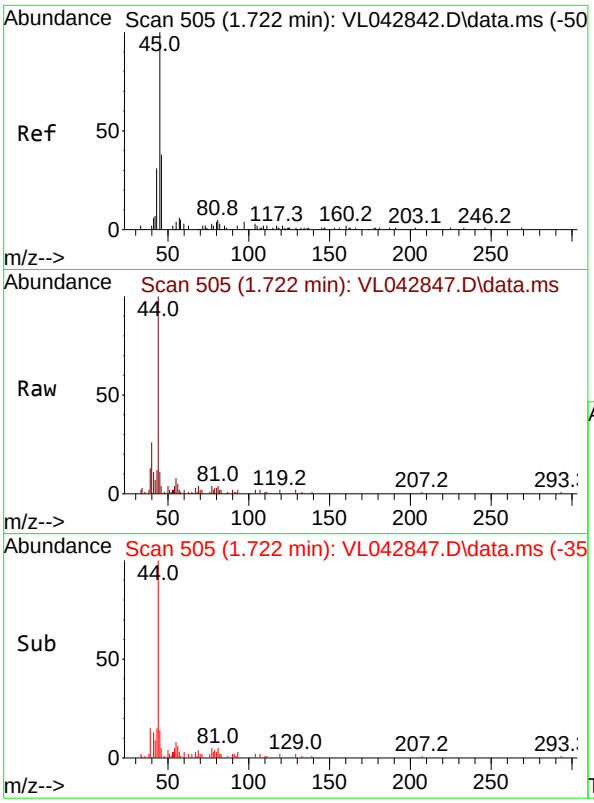


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.042 ppbv
RT: 2.143 min Scan# 635
Delta R.T. -0.000 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Tgt Ion:101 Resp: 592

Ion	Ratio	Lower	Upper
101	100		
151	52.5	56.4	84.6#



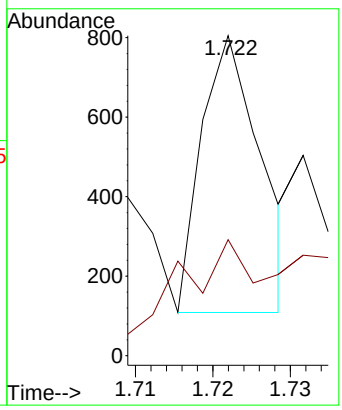


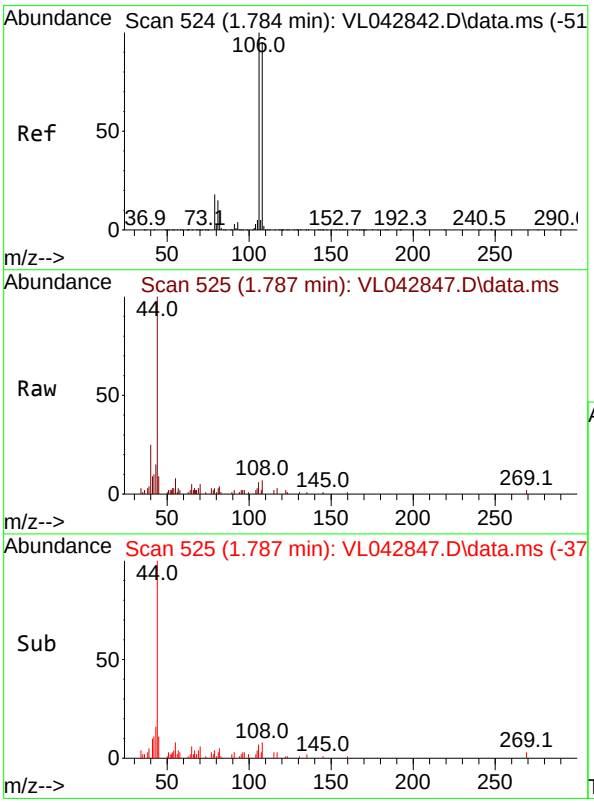
#13
Ethanol
Concen: 0.435 ppbv
RT: 1.722 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 45 Resp: 370

Ion	Ratio	Lower	Upper
45	100		
46	0.0	17.5	69.9#

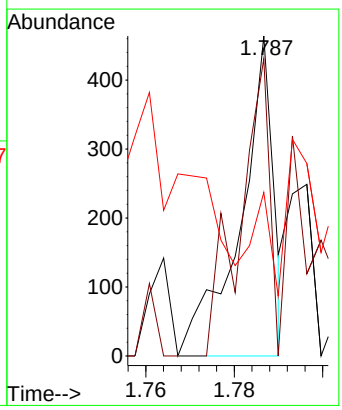


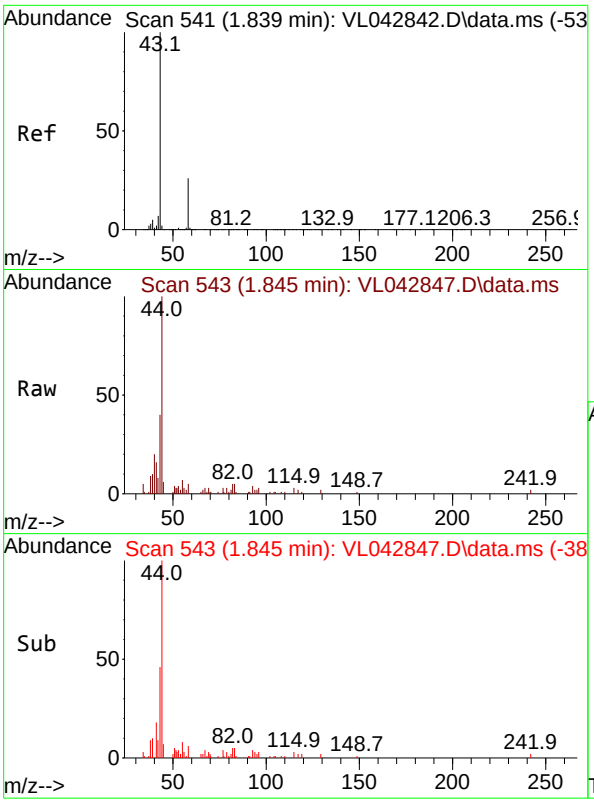


#14
Bromoethene
Concen: 0.047 ppbv
RT: 1.787 min Scan# 525
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

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#



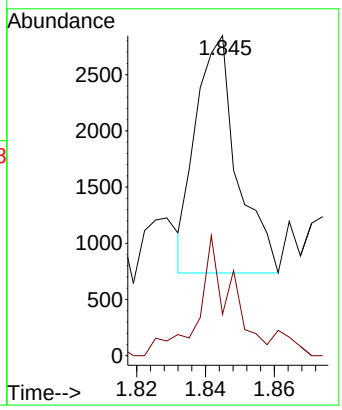


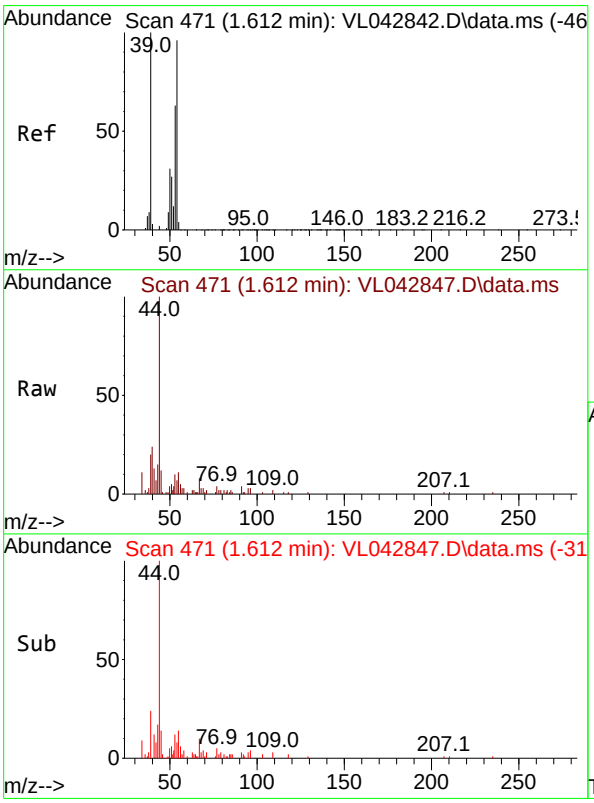
#15
Acetone
Concen: 0.108 ppbv
RT: 1.845 min Scan# 54
Delta R.T. 0.006 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 43 Resp: 1759

Ion	Ratio	Lower	Upper
43	100		
58	57.4	22.4	33.6#

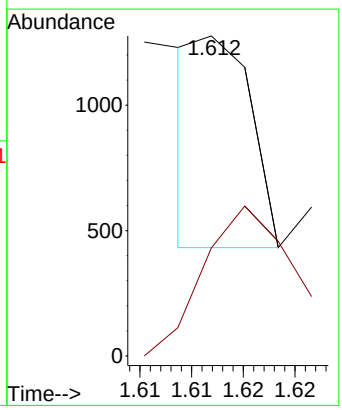


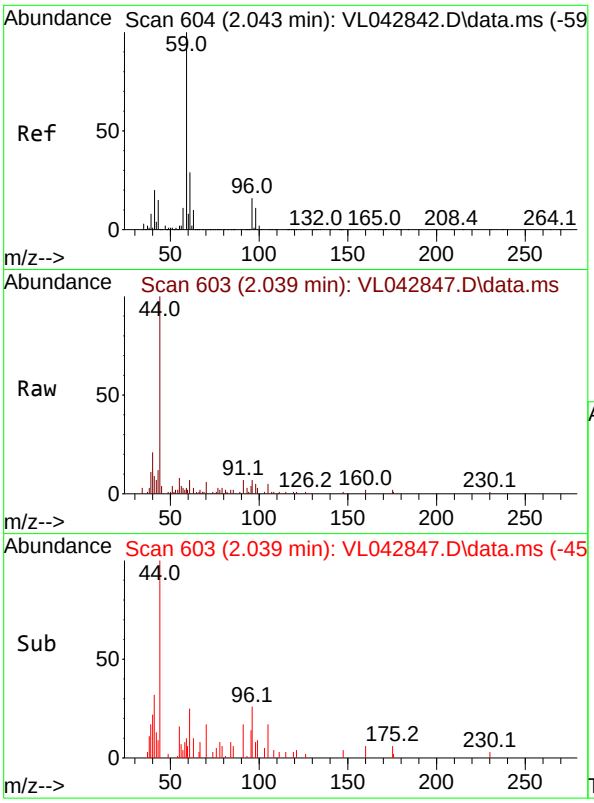


#16
1,3-Butadiene
Concen: 0.041 ppbv
RT: 1.612 min Scan# 471
Delta R.T. -0.000 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Tgt Ion: 39 Resp: 303

Ion	Ratio	Lower	Upper
39	100		
54	197.7	63.6	95.4#



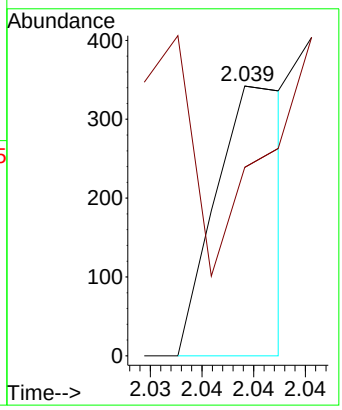


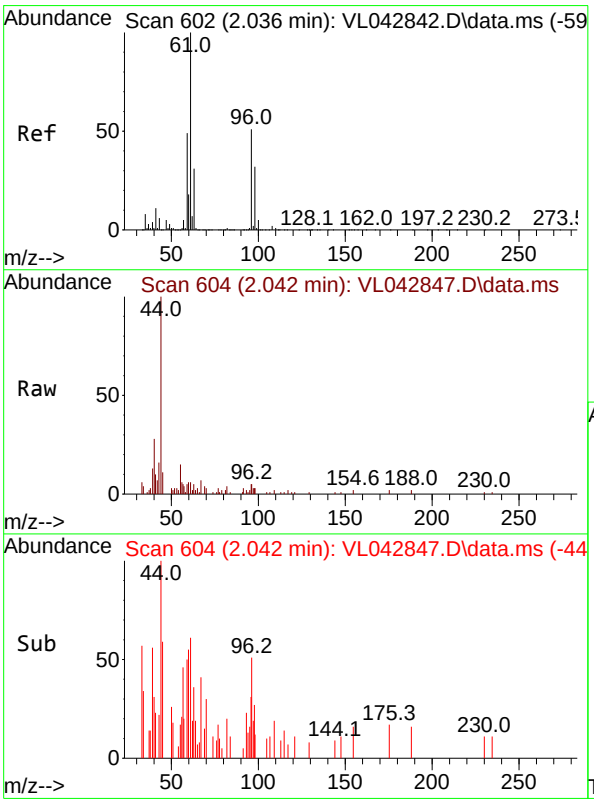
#17
tert-Butyl alcohol
Concen: 0.009 ppbv
RT: 2.039 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 59 Resp: 167

Ion	Ratio	Lower	Upper
59	100		
57	0.0	9.0	13.4#

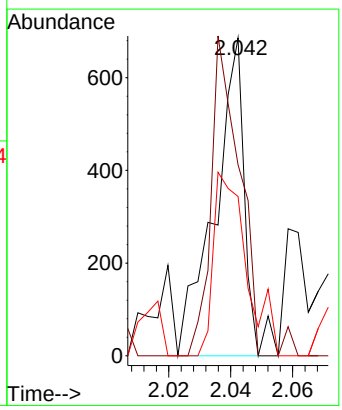


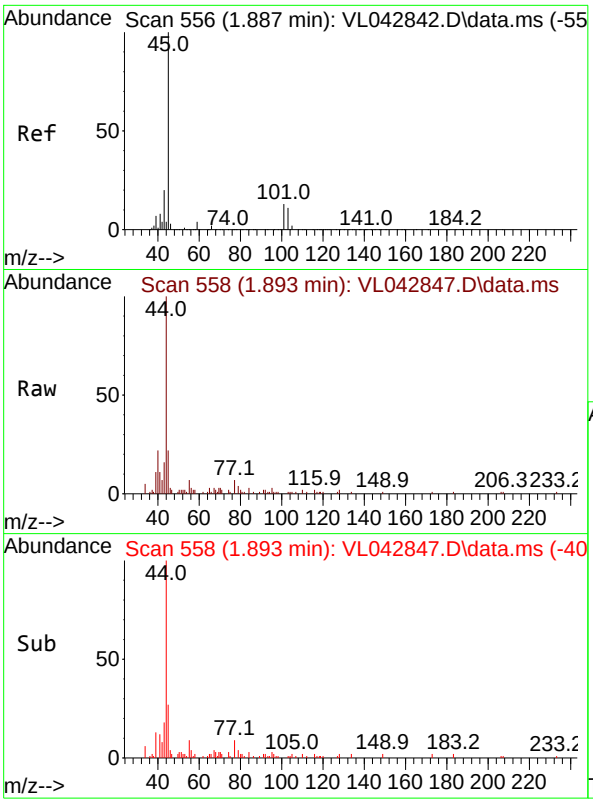


#18
1,1-Dichloroethene
Concen: 0.075 ppbv
RT: 2.042 min Scan# 604
Delta R.T. 0.006 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

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#



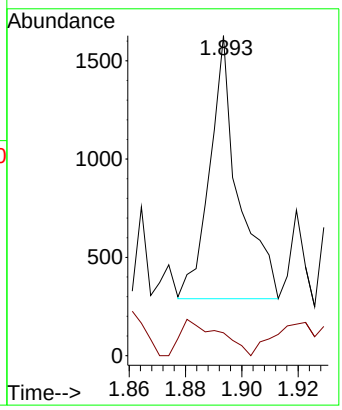


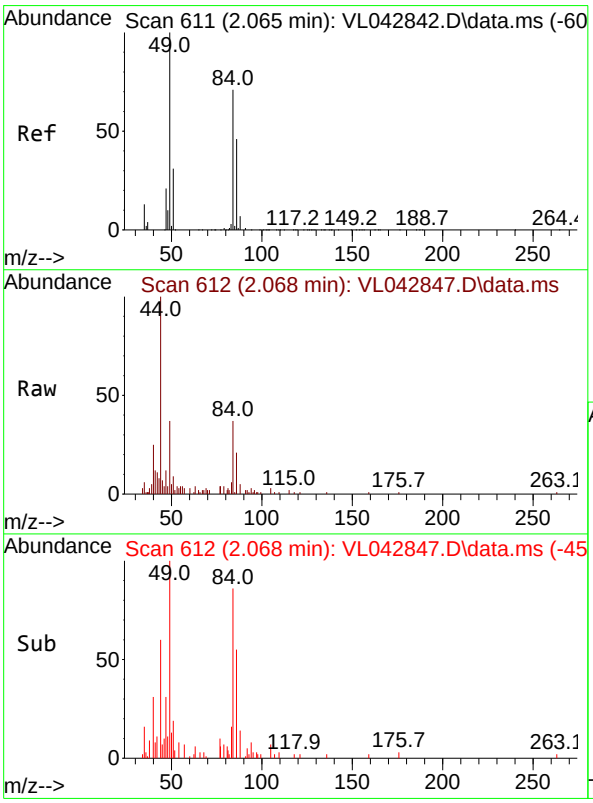
#19
Isopropyl Alcohol
Concen: 0.097 ppbv
RT: 1.893 min Scan# 5
Delta R.T. 0.006 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 45 Resp: 945

Ion	Ratio	Lower	Upper
45	100		
58	18.9	32.7	49.1#

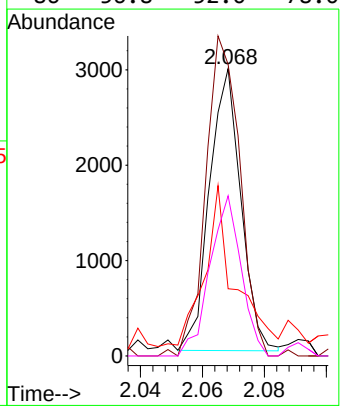


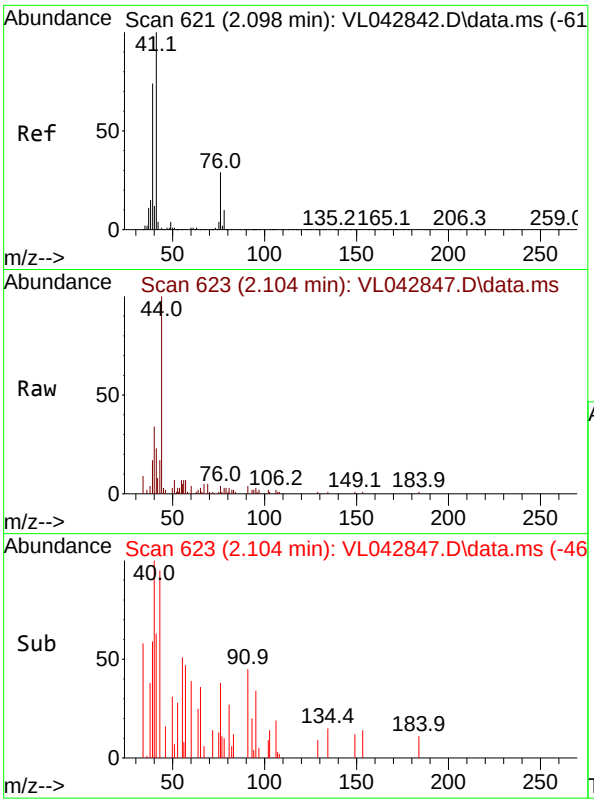


#20
Methylene Chloride
Concen: 0.305 ppbv
RT: 2.068 min Scan# 612
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

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



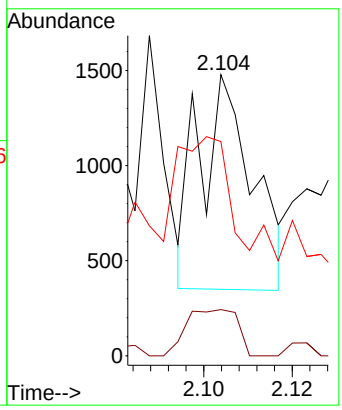


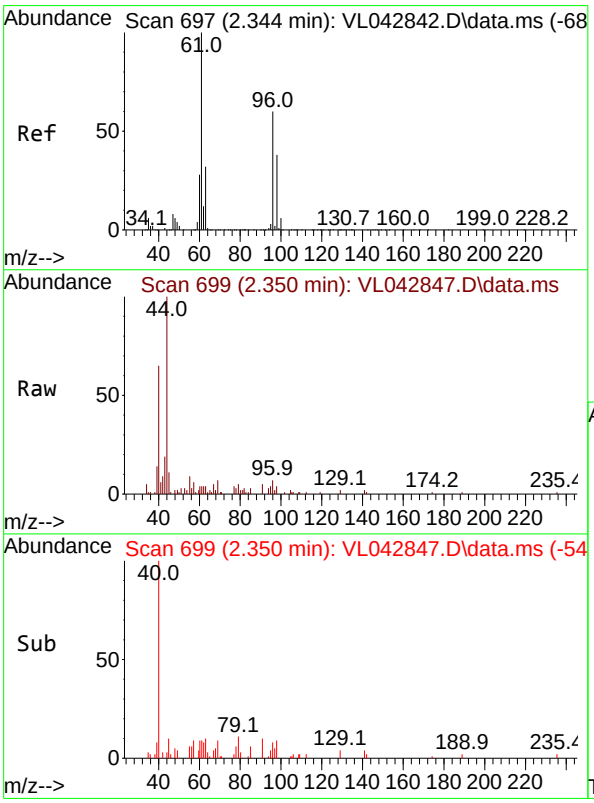
#21
Allyl Chloride
Concen: 0.083 ppbv
RT: 2.104 min Scan# 6
Delta R.T. 0.006 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

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#

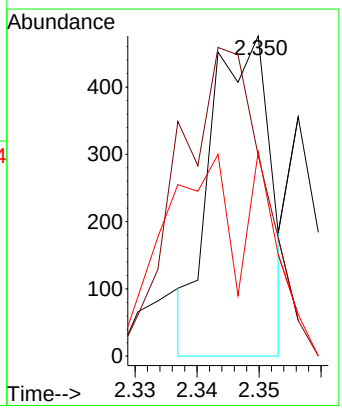


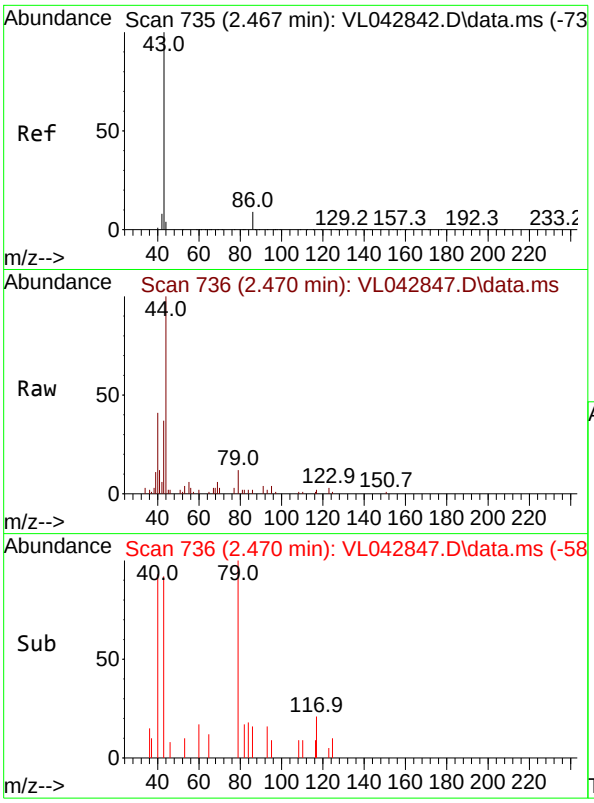


#22
trans-1,2-Dichloroethene
Concen: 0.046 ppbv
RT: 2.350 min Scan# 699
Delta R.T. 0.006 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

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#



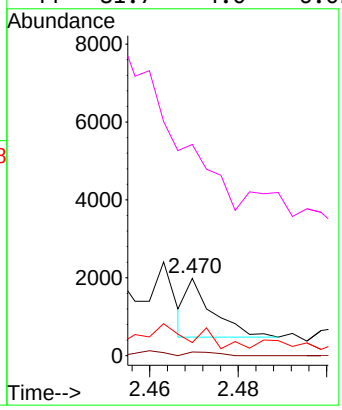


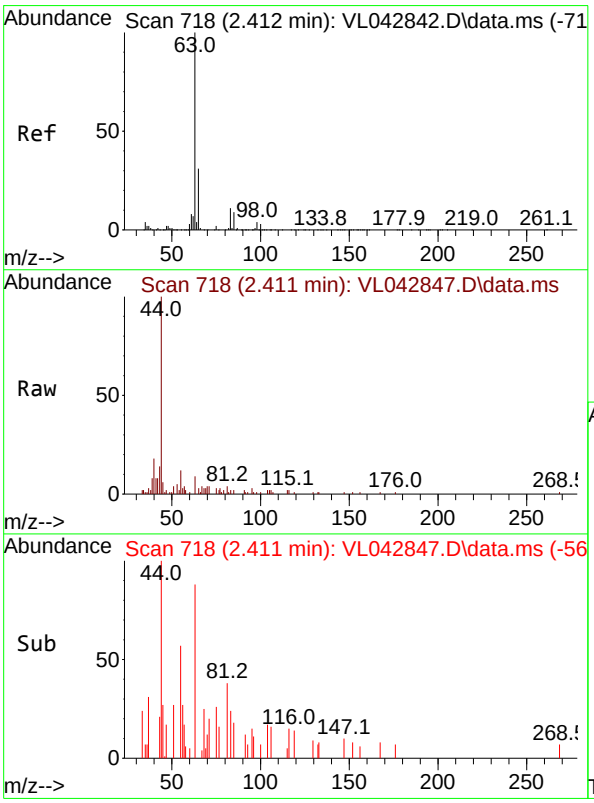
#23
Vinyl Acetate
Concen: 0.029 ppbv
RT: 2.470 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

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#

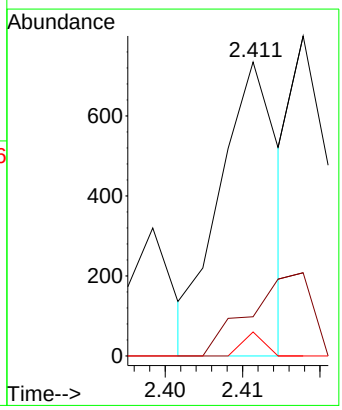


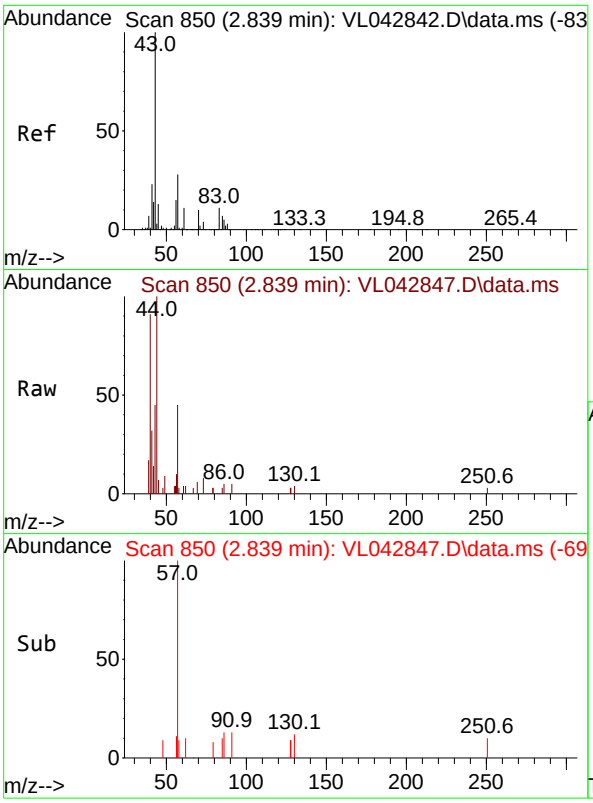


#24
1,1-Dichloroethane
Concen: 0.027 ppbv
RT: 2.411 min Scan# 718
Delta R.T. -0.000 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

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#



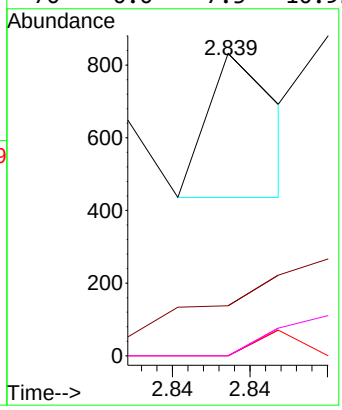


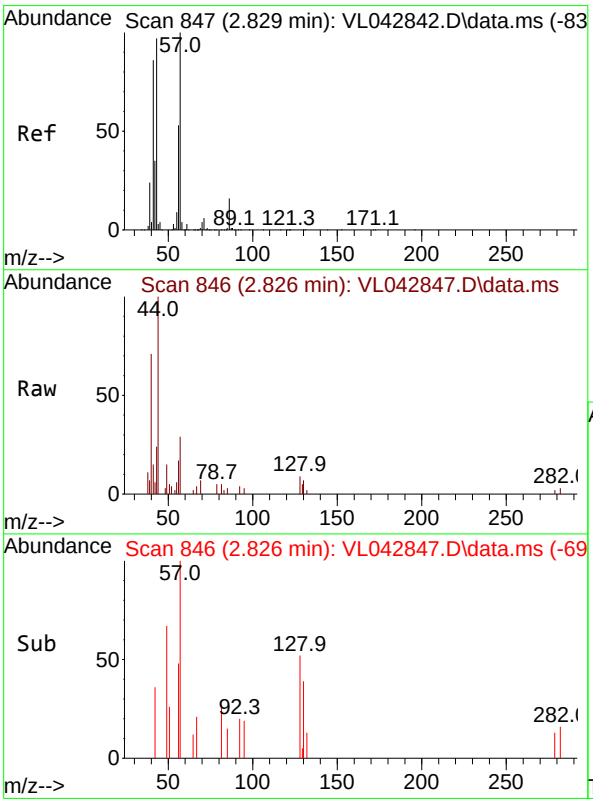
#25
Ethyl Acetate
Concen: 0.003 ppbv
RT: 2.839 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

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#

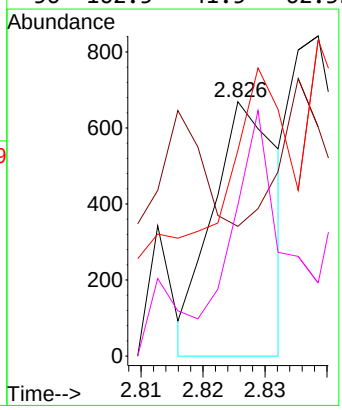


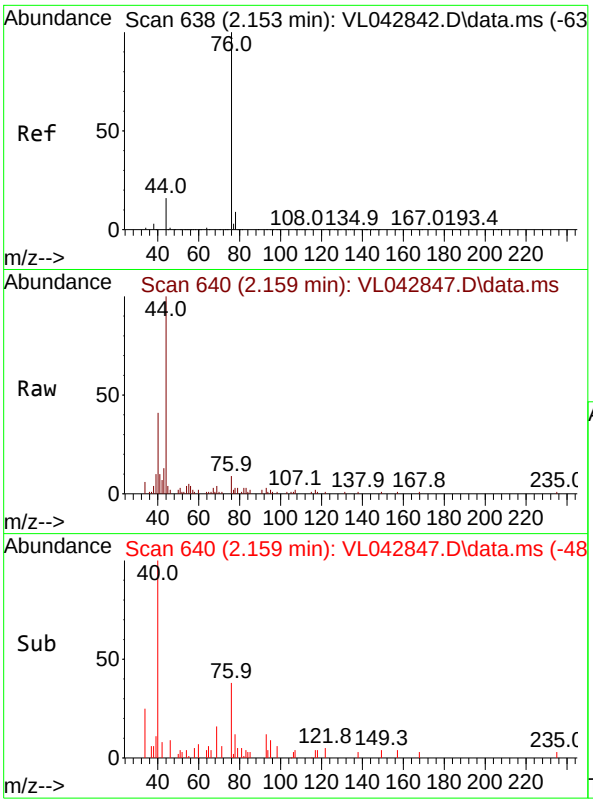


#26
Hexane
Concen: 0.027 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

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#



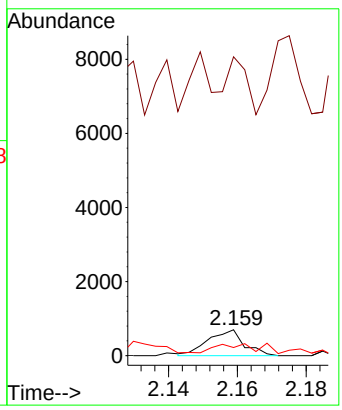


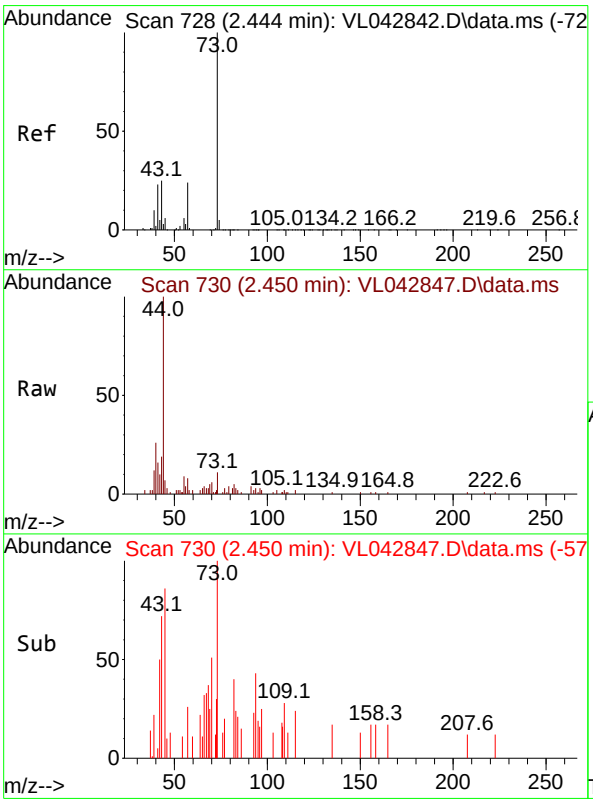
#27
Carbon Disulfide
Concen: 0.029 ppbv
RT: 2.159 min Scan# 64
Delta R.T. 0.006 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

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#

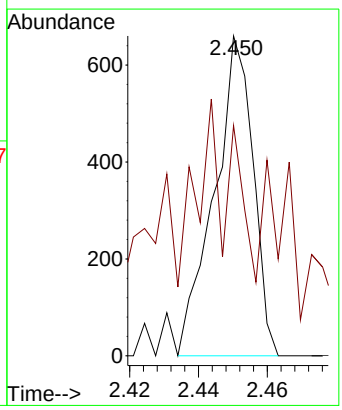


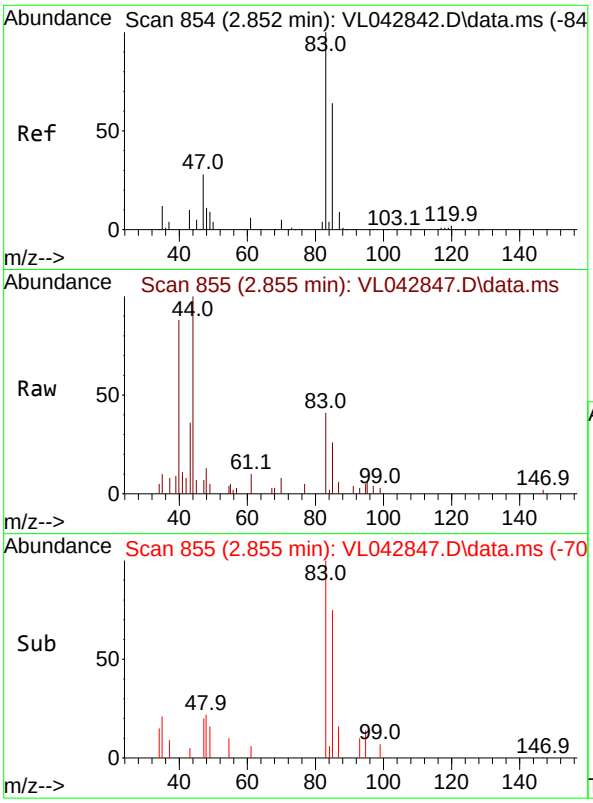


#28
Methyl tert-Butyl Ether
Concen: 0.056 ppbv
RT: 2.450 min Scan# 730
Delta R.T. 0.006 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Tgt Ion: 73 Resp: 517

Ion	Ratio	Lower	Upper
73	100		
57	159.0	21.6	32.4#



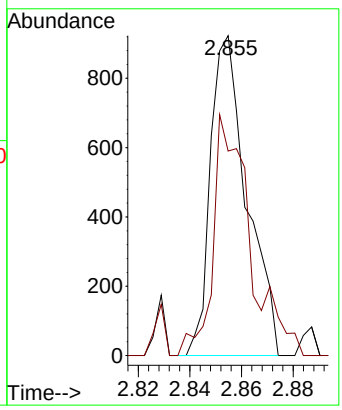


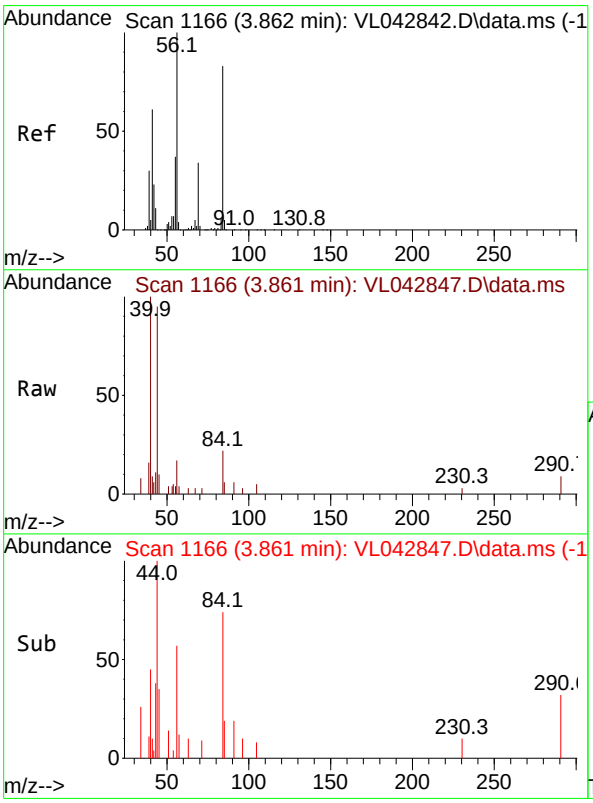
#29
Chloroform
Concen: 0.035 ppbv
RT: 2.855 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 83 Resp: 902

Ion	Ratio	Lower	Upper
83	100		
85	63.9	51.1	76.7

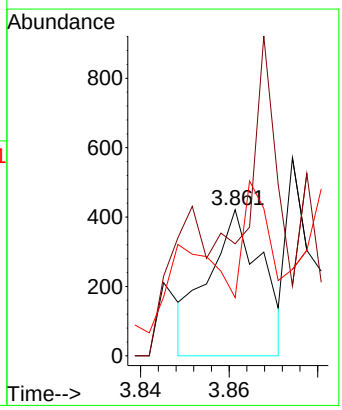


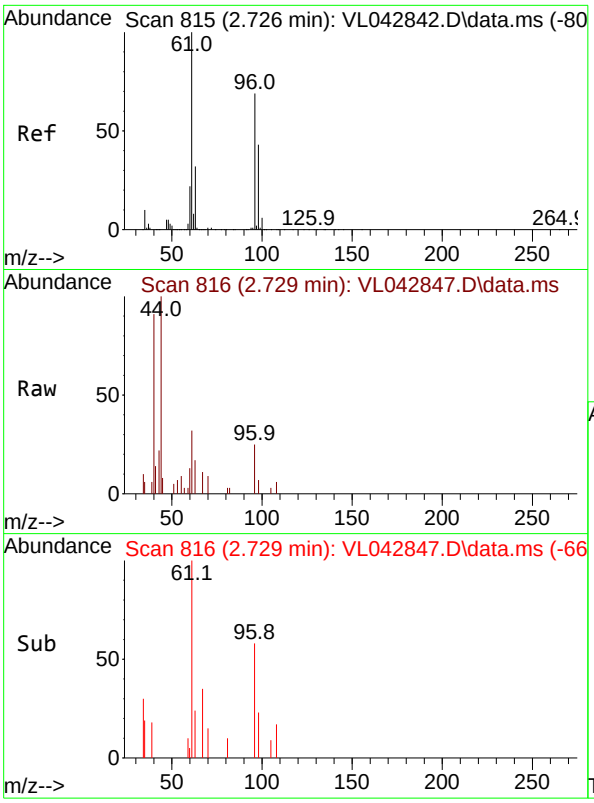


#30
Cyclohexane
Concen: 0.022 ppbv
RT: 3.861 min Scan# 1166
Delta R.T. -0.000 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

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#



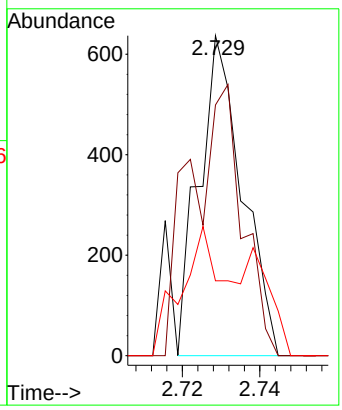


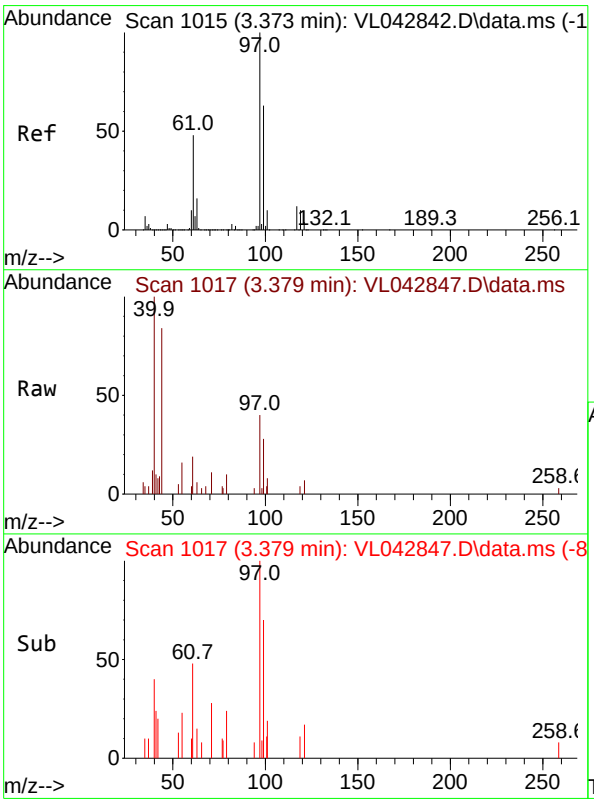
#31
cis-1,2-Dichloroethene
Concen: 0.027 ppbv
RT: 2.729 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

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#

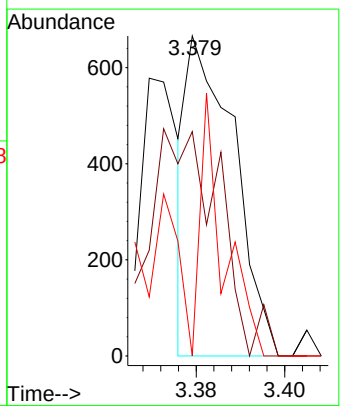


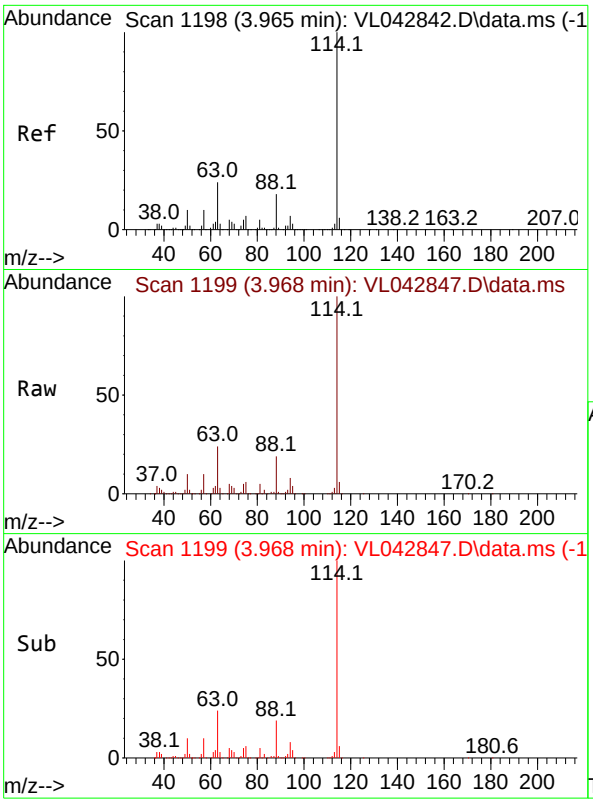


#32
1,1,1-Trichloroethane
Concen: 0.018 ppbv
RT: 3.379 min Scan# 1017
Delta R.T. 0.006 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

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#



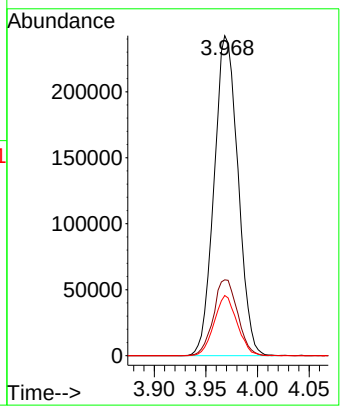


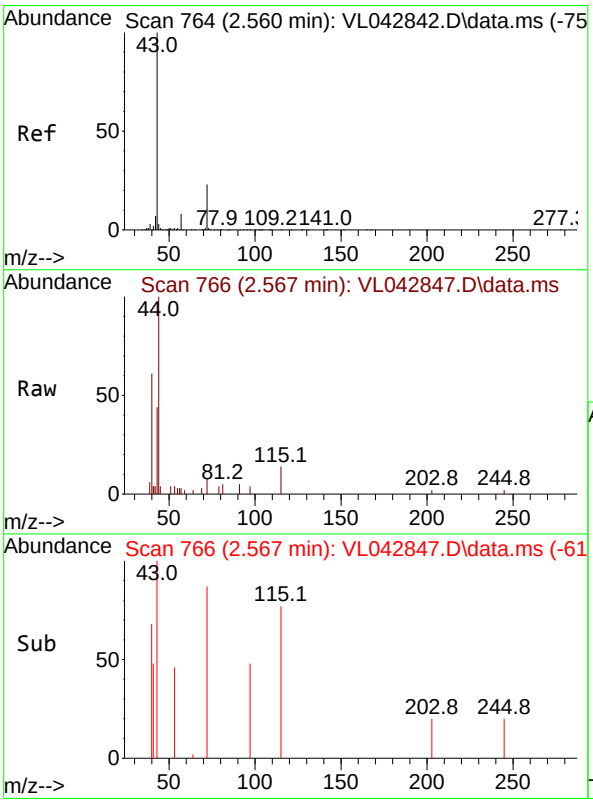
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.968 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

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

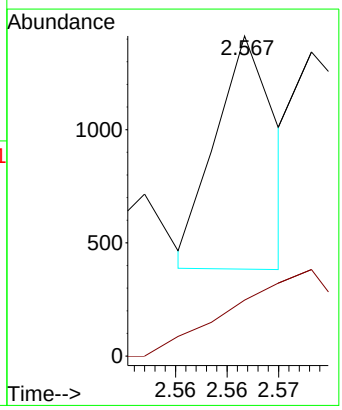


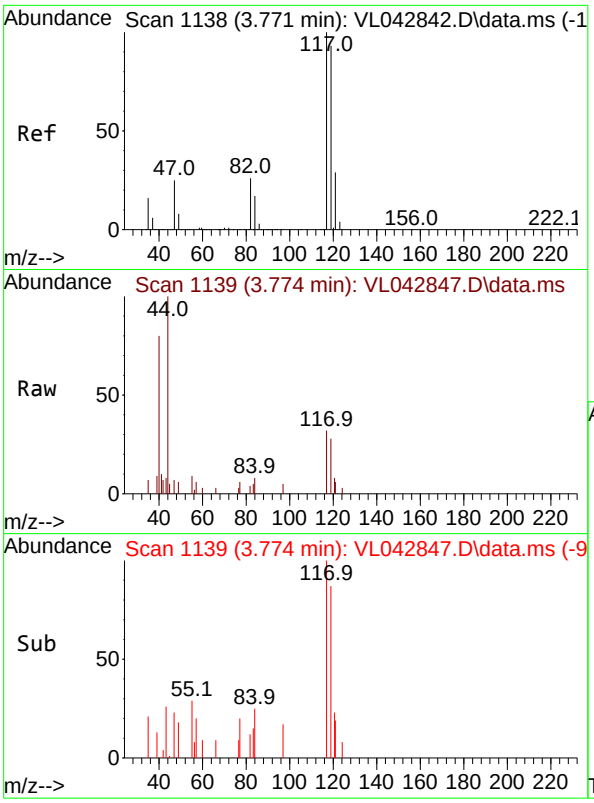


#34
2-Butanone
Concen: 0.016 ppbv
RT: 2.567 min Scan# 766
Delta R.T. 0.006 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Tgt Ion: 43 Resp: 422

Ion	Ratio	Lower	Upper
43	100		
72	0.0	18.6	28.0#



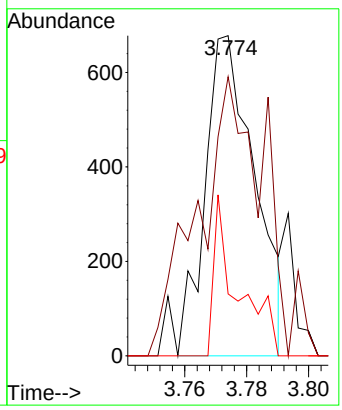


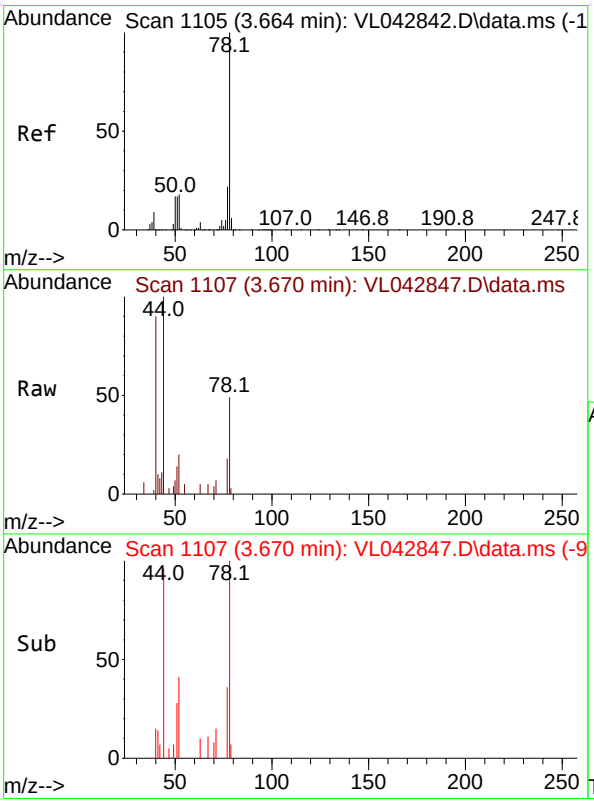
#35
Carbon Tetrachloride
Concen: 0.028 ppbv
RT: 3.774 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:117 Resp: 756

Ion	Ratio	Lower	Upper
117	100		
119	59.0	74.7	112.1#
121	19.3	23.2	34.8#

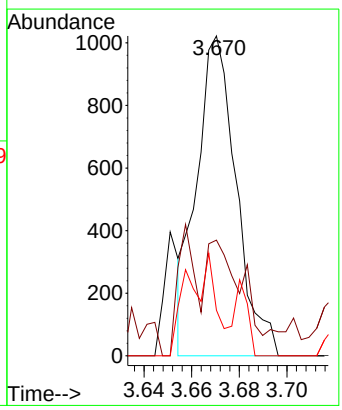


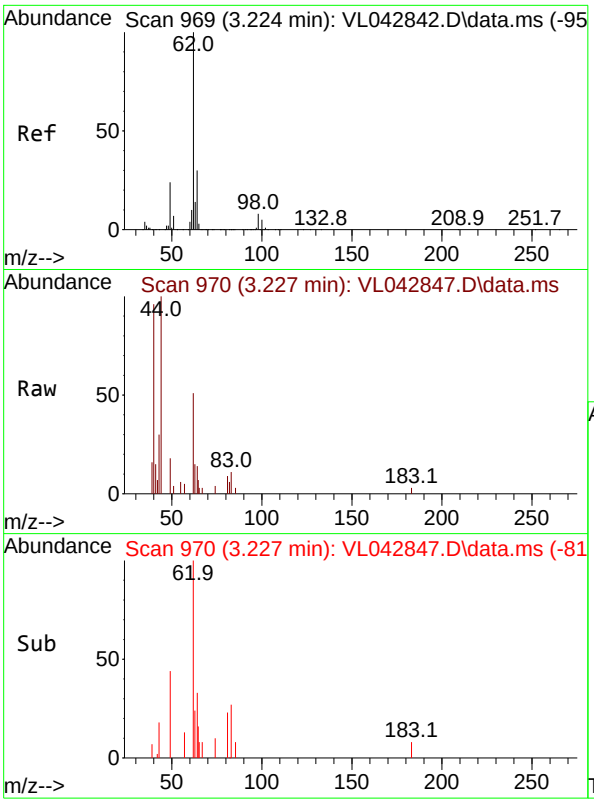


#36
Benzene
Concen: 0.032 ppbv
RT: 3.670 min Scan# 1107
Delta R.T. 0.006 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

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#



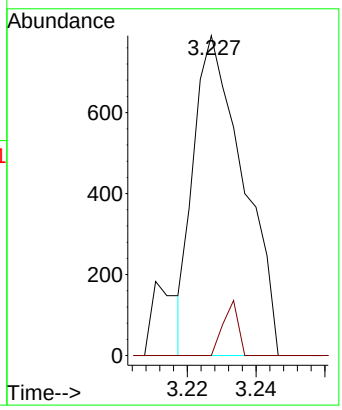


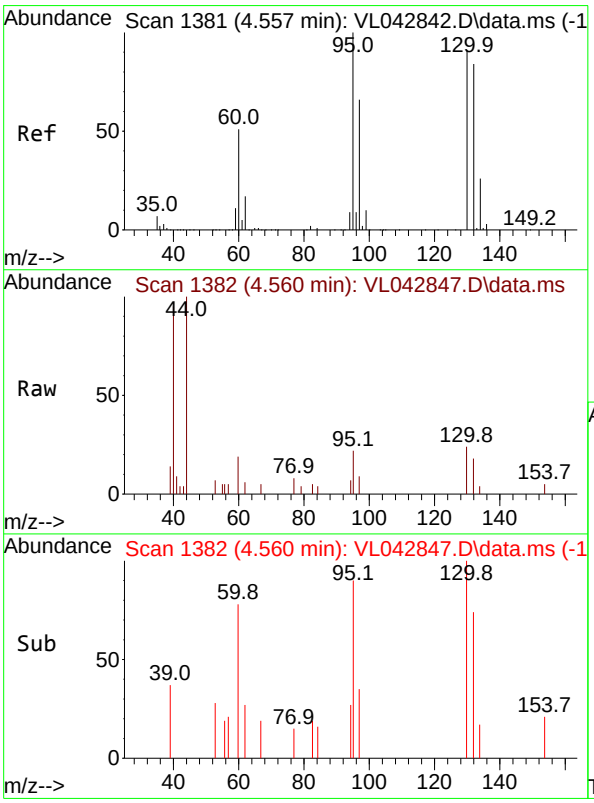
#37
1,2-Dichloroethane
Concen: 0.041 ppbv
RT: 3.227 min Scan# 9
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 62 Resp: 792

Ion	Ratio	Lower	Upper
62	100		
98	5.2	5.9	8.9#

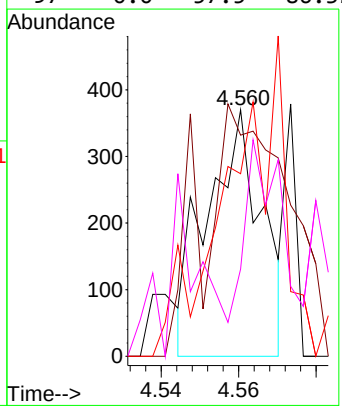


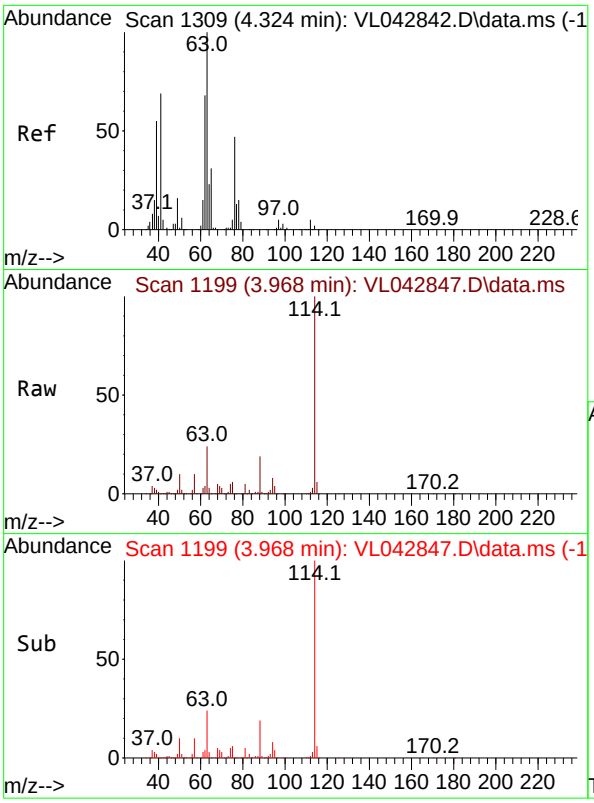


#38
Trichloroethene
Concen: 0.021 ppbv
RT: 4.560 min Scan# 1382
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

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#



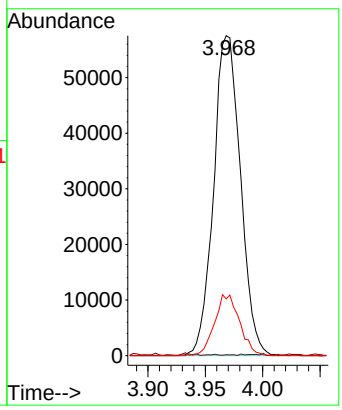


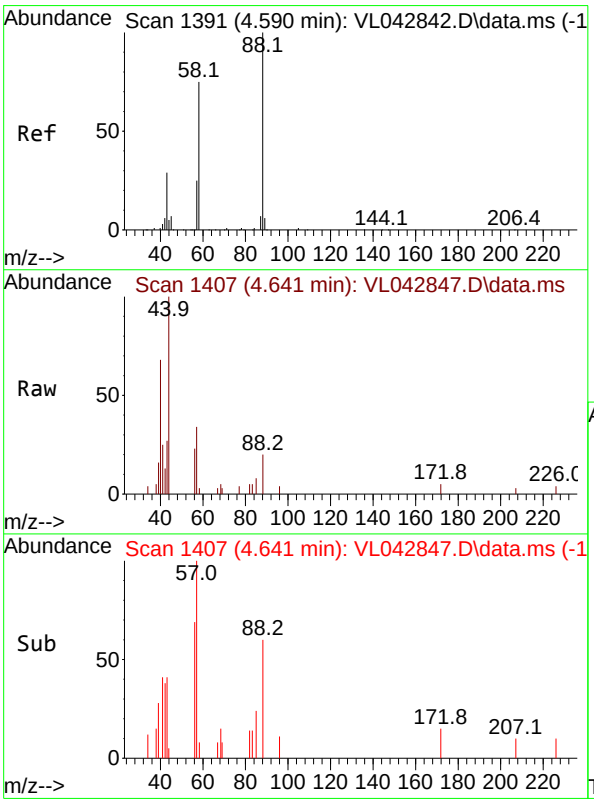
#39
1,2-Dichloropropane
Concen: 6.881 ppbv
RT: 3.968 min Scan# 1
Delta R.T. -0.356 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

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#

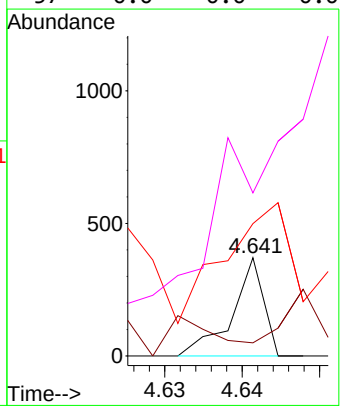


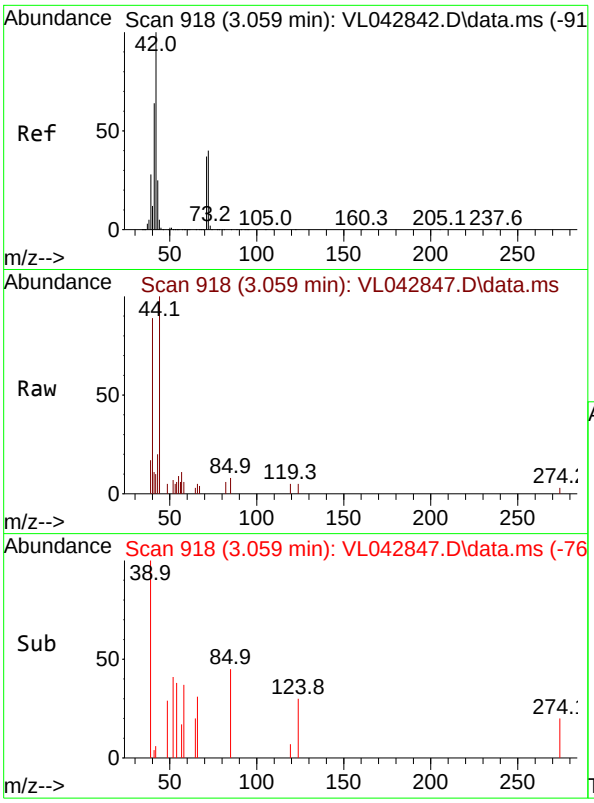


#40
1,4-Dioxane
Concen: 0.016 ppbv
RT: 4.641 min Scan# 1407
Delta R.T. 0.052 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

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



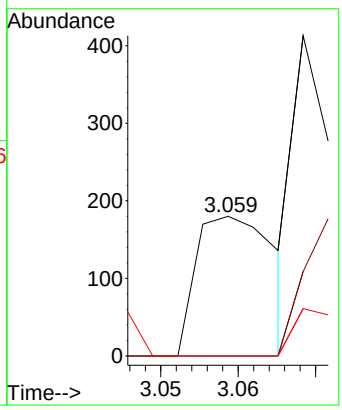


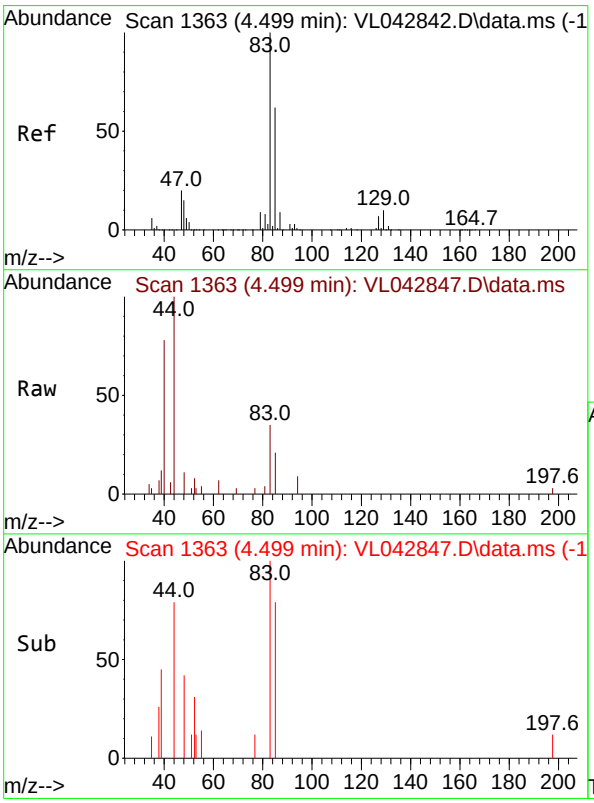
#41
Tetrahydrofuran
Concen: 0.009 ppbv
RT: 3.059 min Scan# 9
Delta R.T. -0.000 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

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#

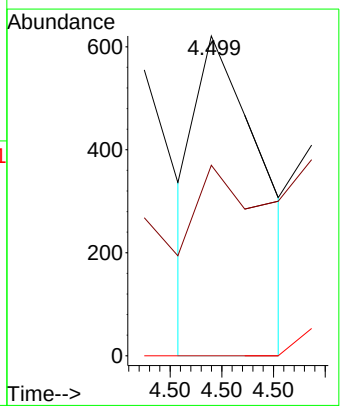


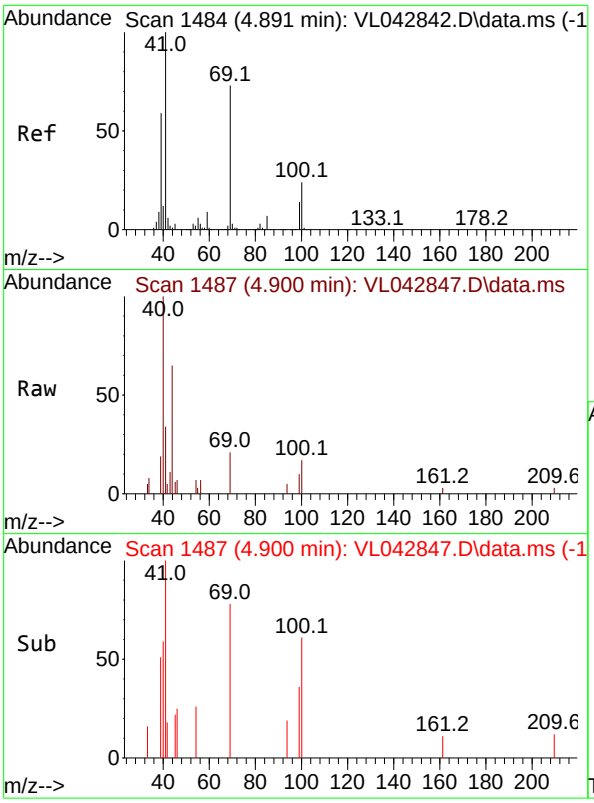


#42
Bromodichloromethane
Concen: 0.009 ppbv
RT: 4.499 min Scan# 1363
Delta R.T. -0.000 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

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#



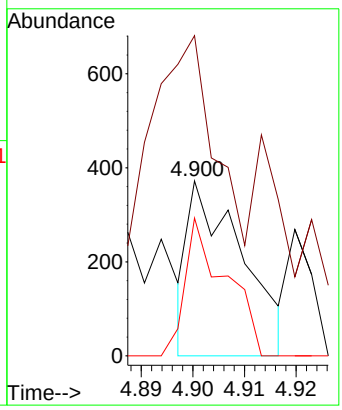


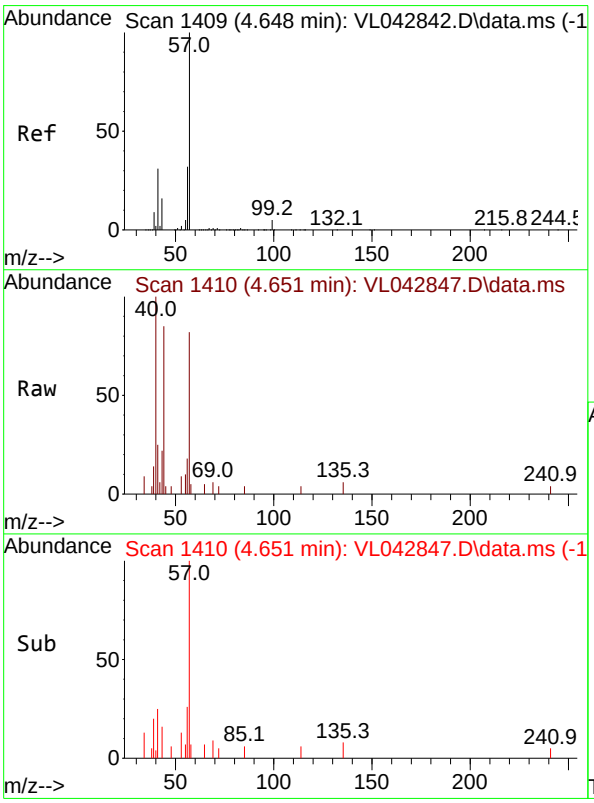
#43
Methyl Methacrylate
Concen: 0.018 ppbv
RT: 4.900 min Scan# 14
Delta R.T. 0.009 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

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#

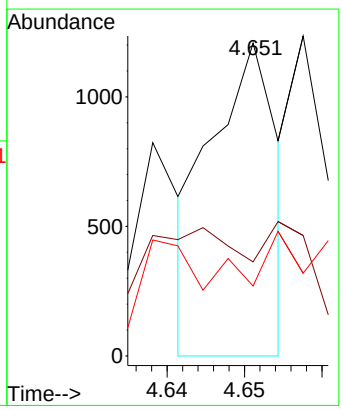


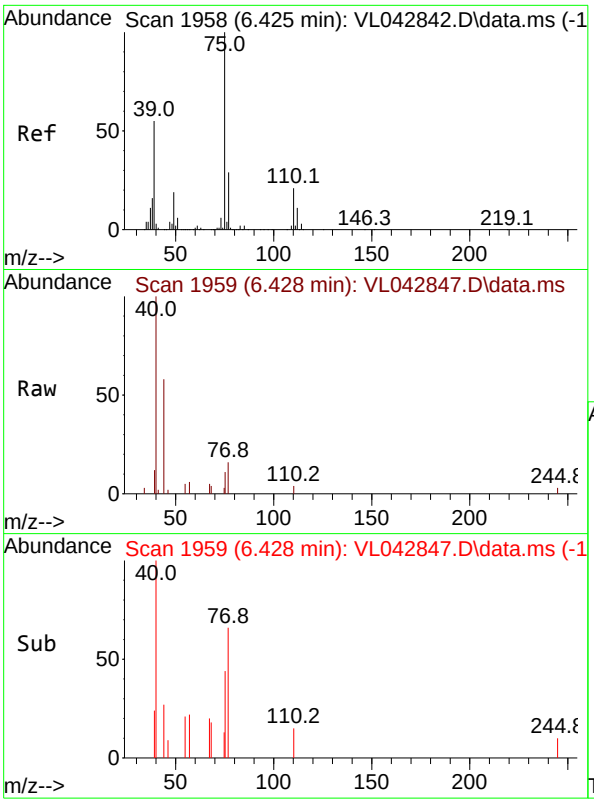


#44
2,2,4-Trimethylpentane
Concen: 0.012 ppbv
RT: 4.651 min Scan# 1410
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

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#



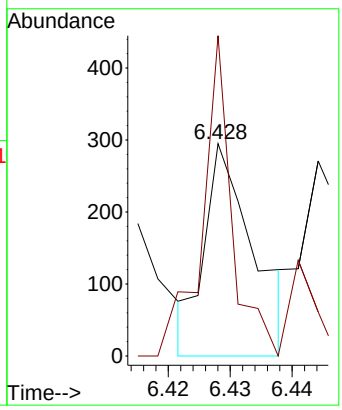


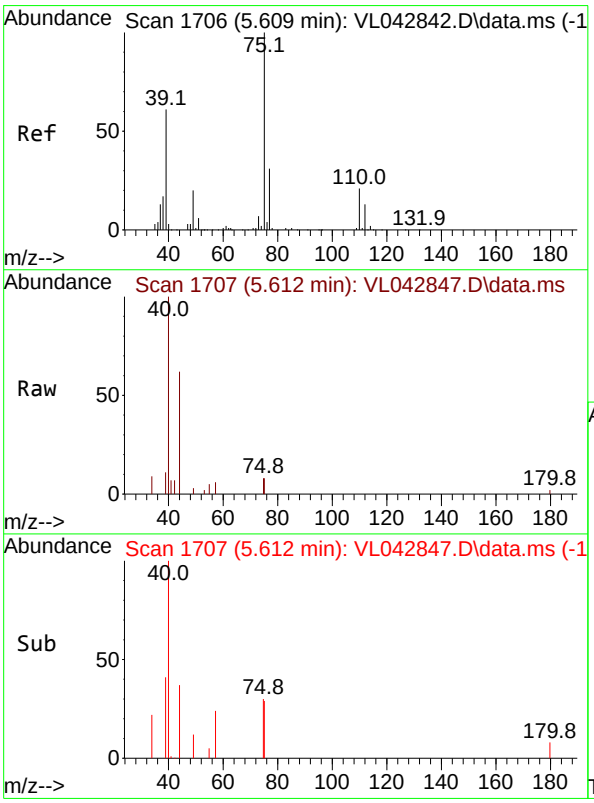
#45
t-1,3-Dichloropropene
Concen: 0.009 ppbv
RT: 6.428 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 75 Resp: 162

Ion	Ratio	Lower	Upper
75	100		
77	150.8	23.8	35.6#

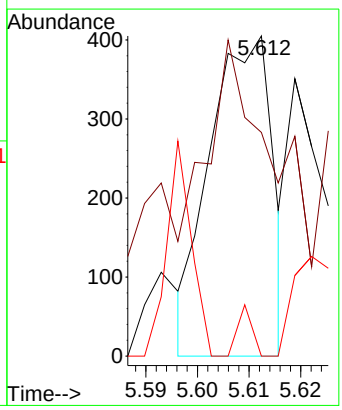


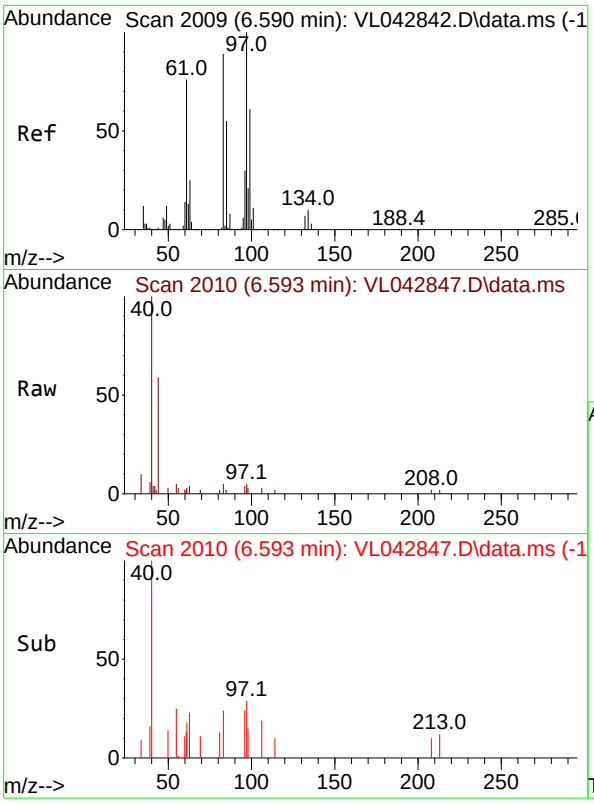


#46
cis-1,3-Dichloropropene
Concen: 0.016 ppbv
RT: 5.612 min Scan# 1707
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

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#



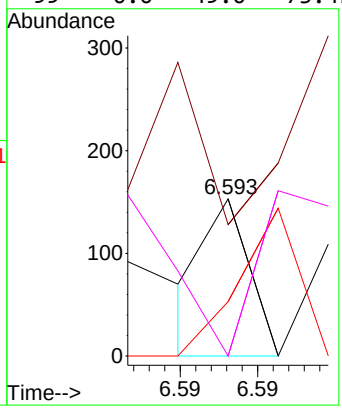


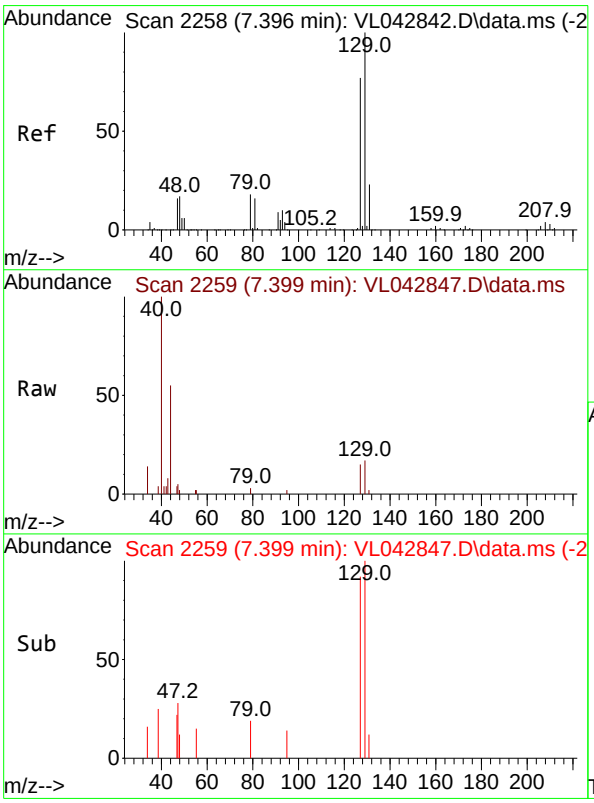
#47
1,1,2-Trichloroethane
Concen: 0.002 ppbv
RT: 6.593 min Scan# 2(
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

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#

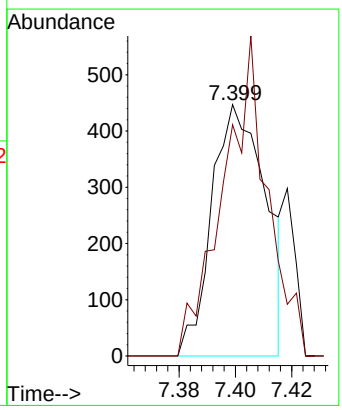


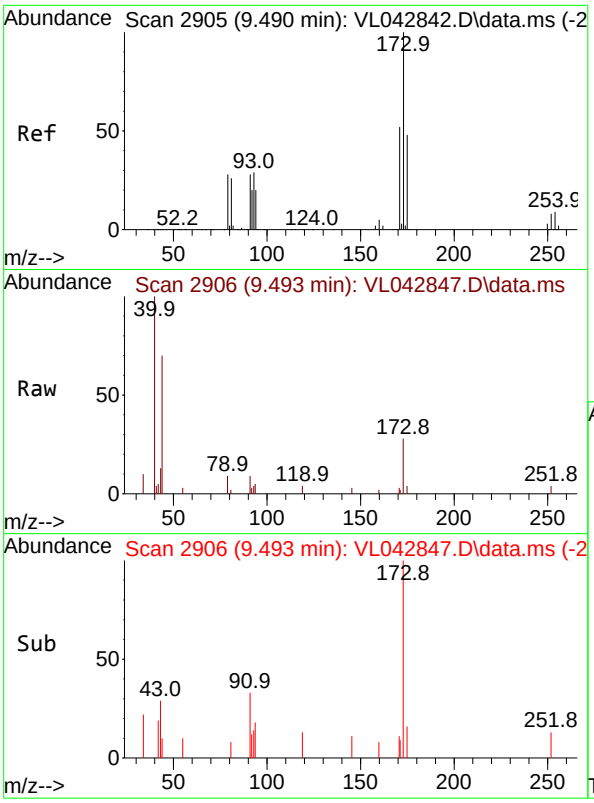


#48
Dibromochloromethane
Concen: 0.025 ppbv
RT: 7.399 min Scan# 2259
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Tgt Ion:129 Resp: 593

Ion	Ratio	Lower	Upper
129	100		
127	104.0	39.4	118.2



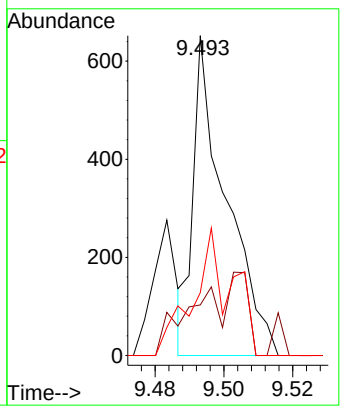


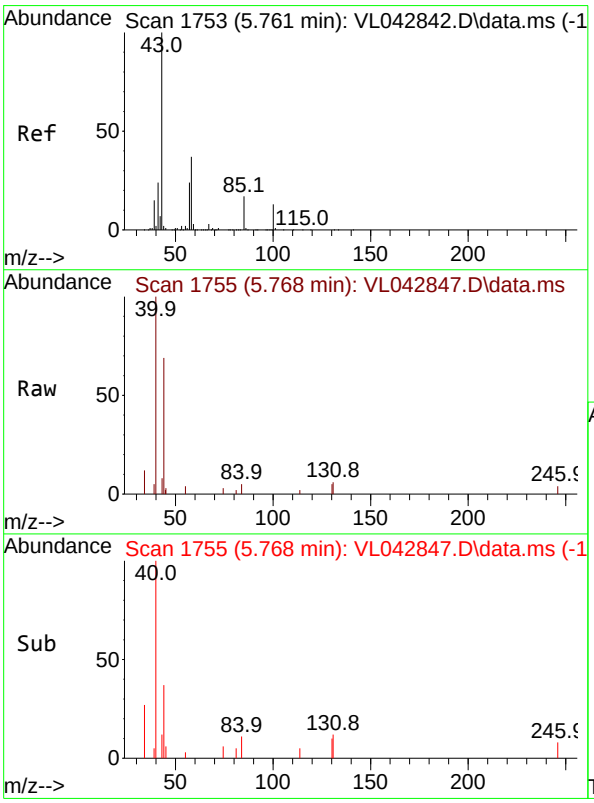
#49
Bromoform
Concen: 0.022 ppbv
RT: 9.493 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

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

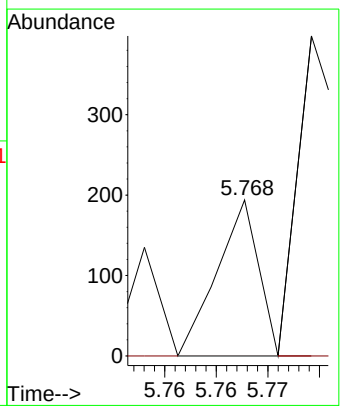


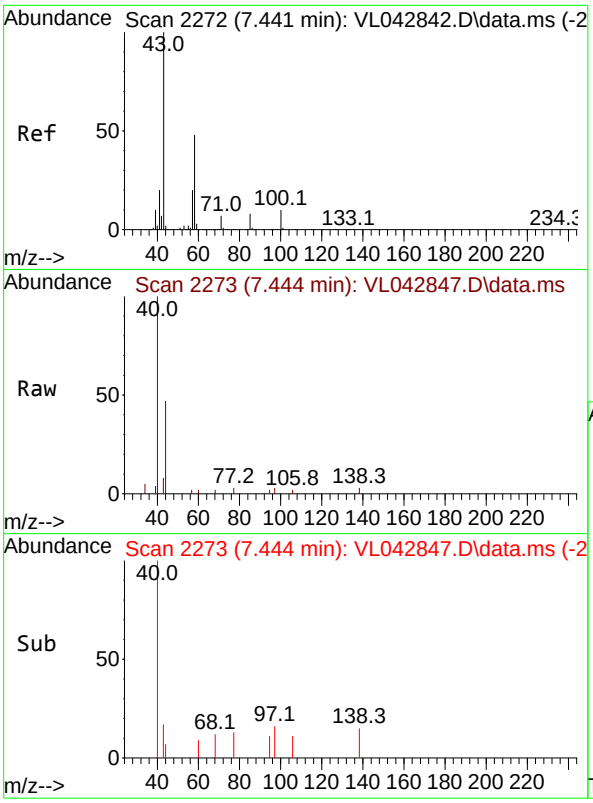


#50
4-Methyl-2-Pentanone
Concen: 0.002 ppbv
RT: 5.768 min Scan# 1755
Delta R.T. 0.006 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Tgt Ion: 43 Resp: 54

Ion	Ratio	Lower	Upper
43	100		
58	0.0	29.8	44.8#



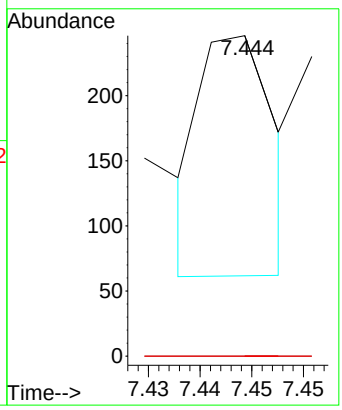


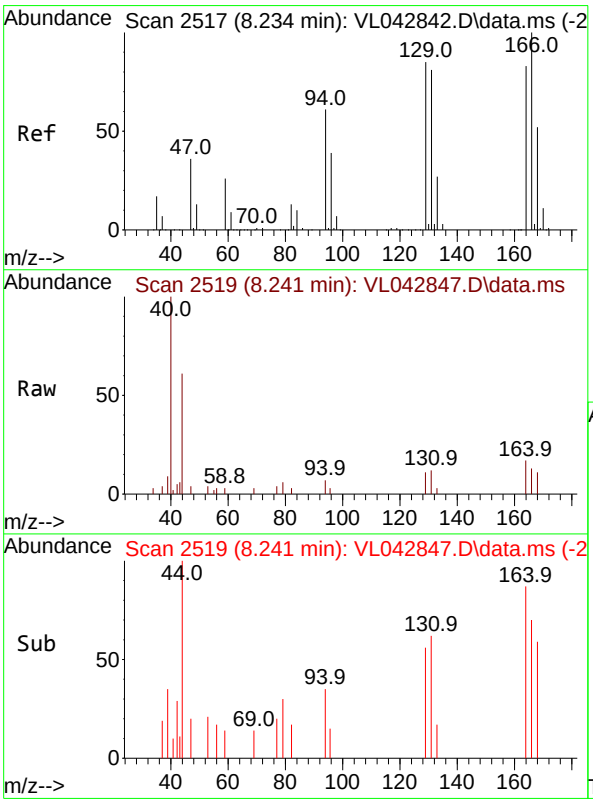
#51
2-Hexanone
Concen: 0.003 ppbv
RT: 7.444 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

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#

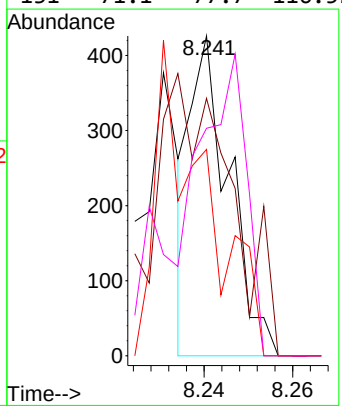


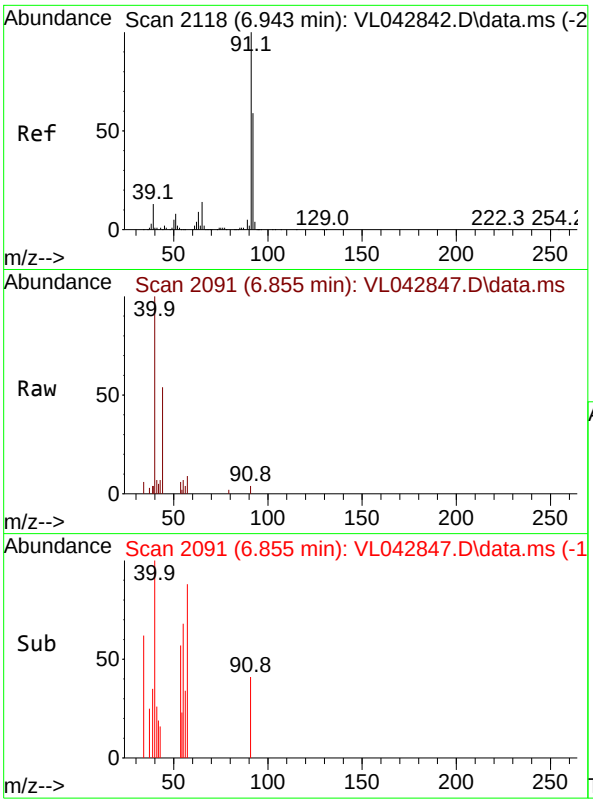


#52
Tetrachloroethene
Concen: 0.019 ppbv
RT: 8.241 min Scan# 2519
Delta R.T. 0.006 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

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#



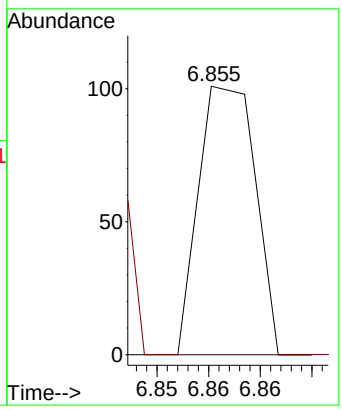


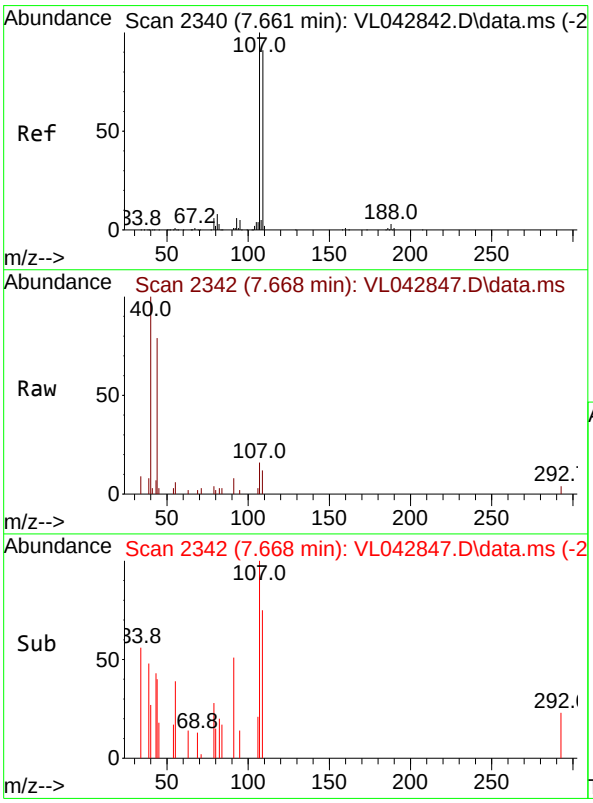
#53
Toluene
Concen: 0.001 ppbv
RT: 6.855 min Scan# 2
Delta R.T. -0.088 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 91 Resp: 39

Ion	Ratio	Lower	Upper
91	100		
92	59.0	47.8	71.6

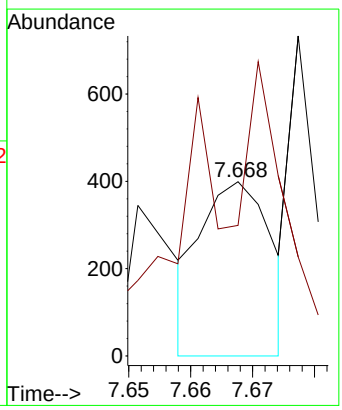


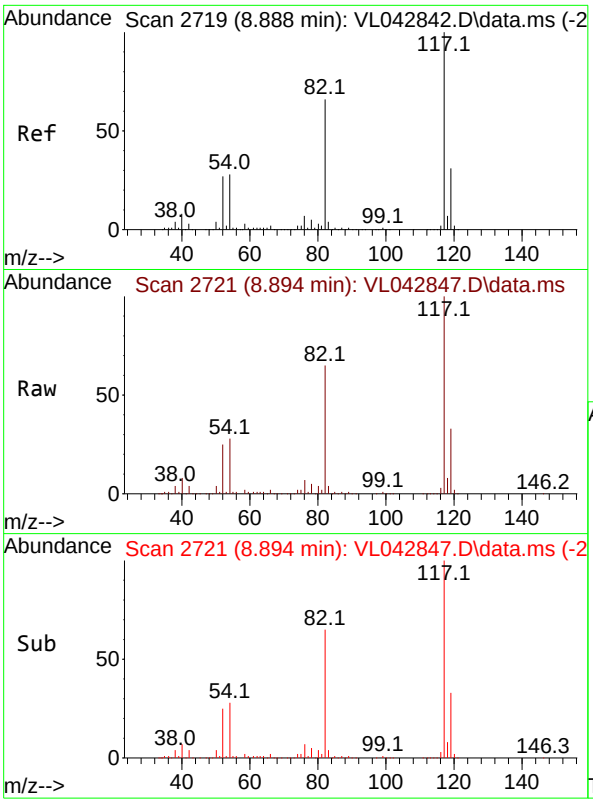


#54
1,2-Dibromoethane
Concen: 0.015 ppbv
RT: 7.668 min Scan# 2342
Delta R.T. 0.006 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Tgt Ion:107 Resp: 313

Ion	Ratio	Lower	Upper
107	100		
109	48.9	72.5	108.7#



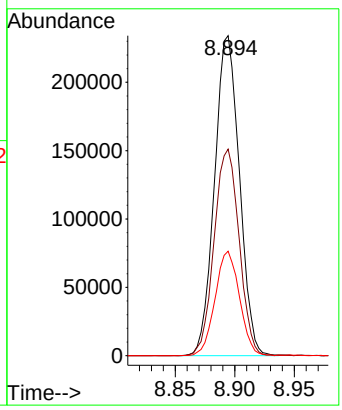


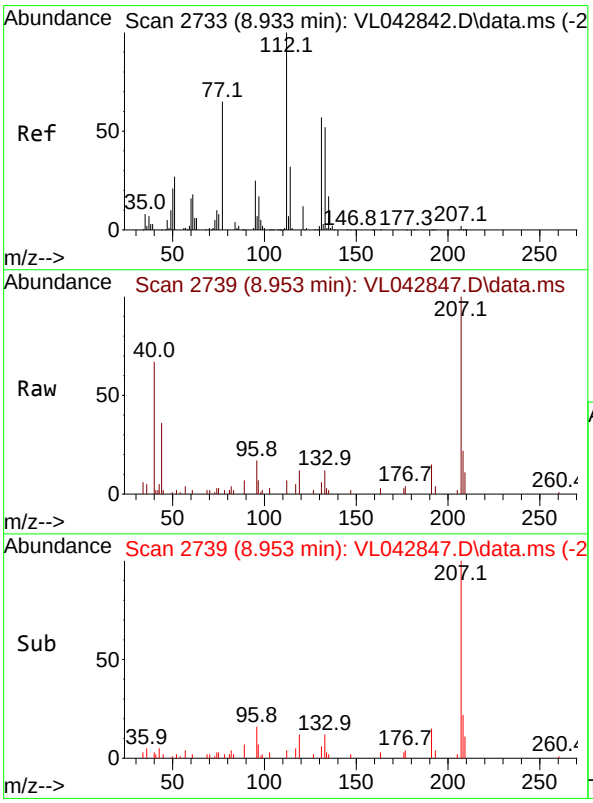
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.894 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Instrument :
MSVOA_L
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

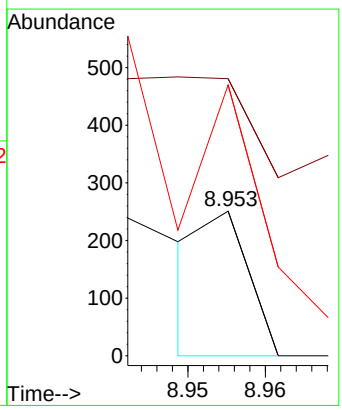


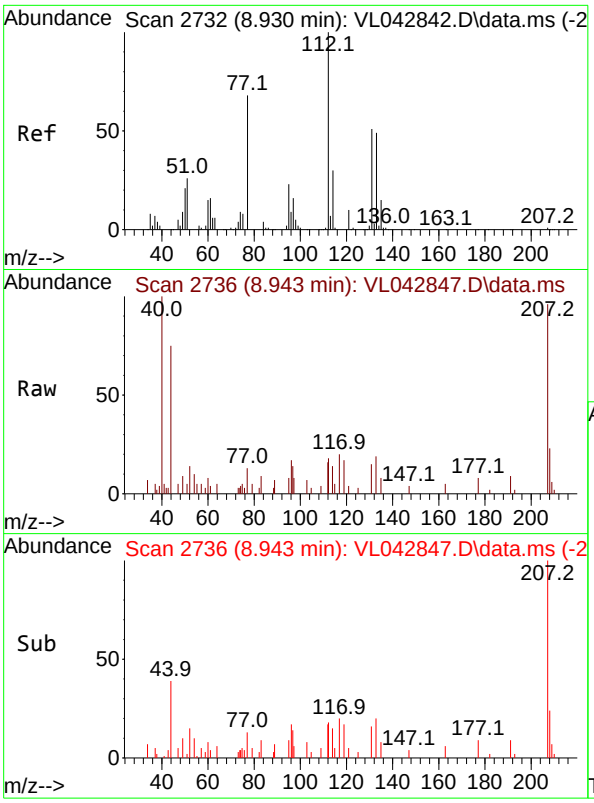


#56
1,1,1,2-Tetrachloroethane
Concen: 0.003 ppbv
RT: 8.953 min Scan# 2739
Delta R.T. 0.019 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

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#



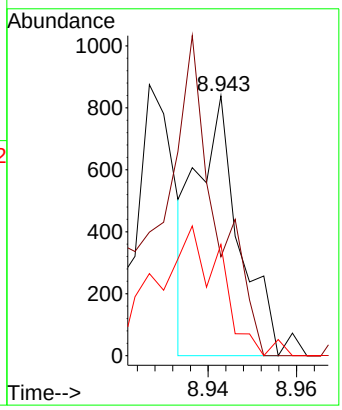


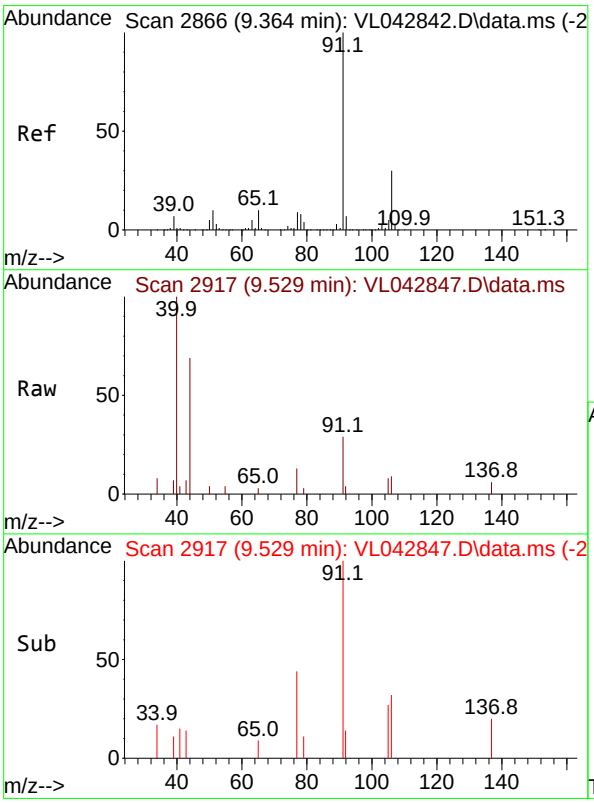
#57
Chlorobenzene
Concen: 0.017 ppbv
RT: 8.943 min Scan# 2
Delta R.T. 0.013 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

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#

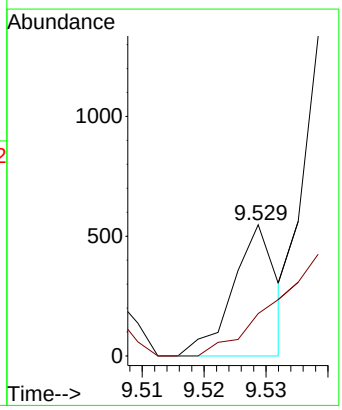


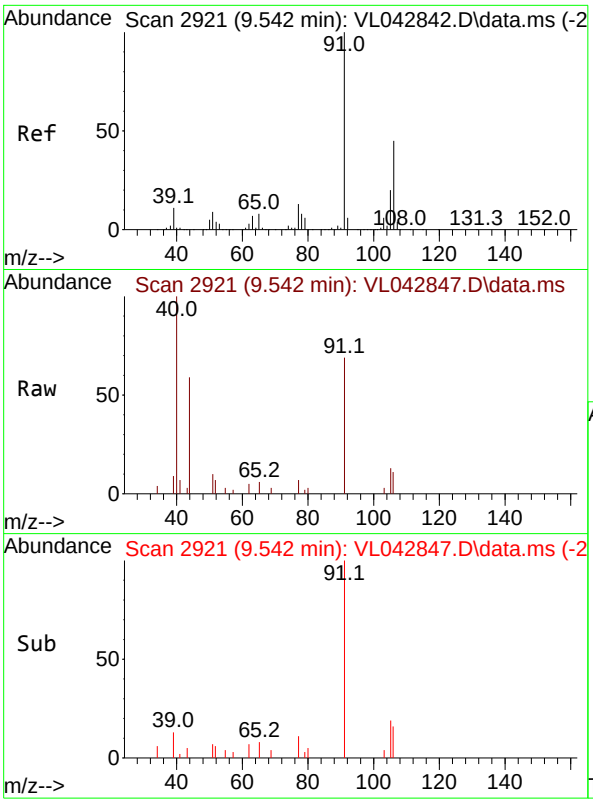


#58
Ethyl Benzene
Concen: 0.004 ppbv
RT: 9.529 min Scan# 2917
Delta R.T. 0.165 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Tgt Ion: 91 Resp: 267

Ion	Ratio	Lower	Upper
91	100		
106	32.3	23.9	35.9



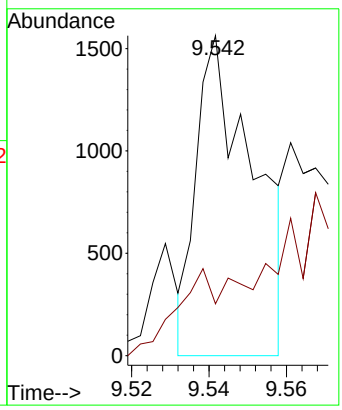


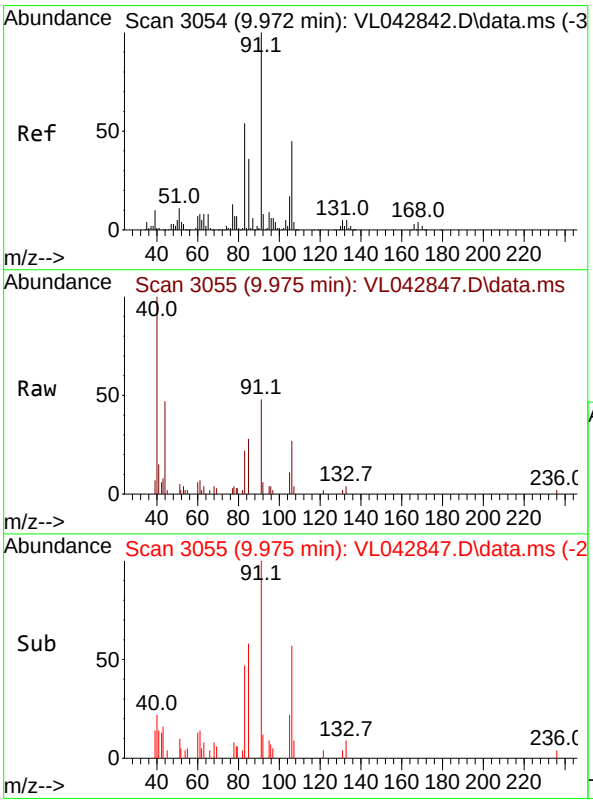
#59
m/p-Xylene
Concen: 0.034 ppbv
RT: 9.542 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 91 Resp: 1589

Ion	Ratio	Lower	Upper
91	100		
106	0.0	0.0	0.0

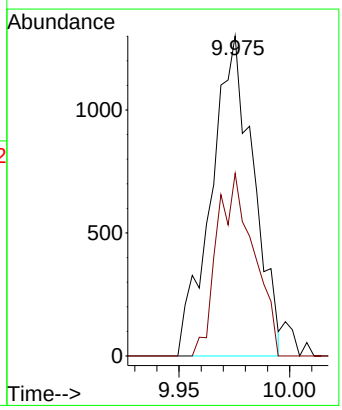


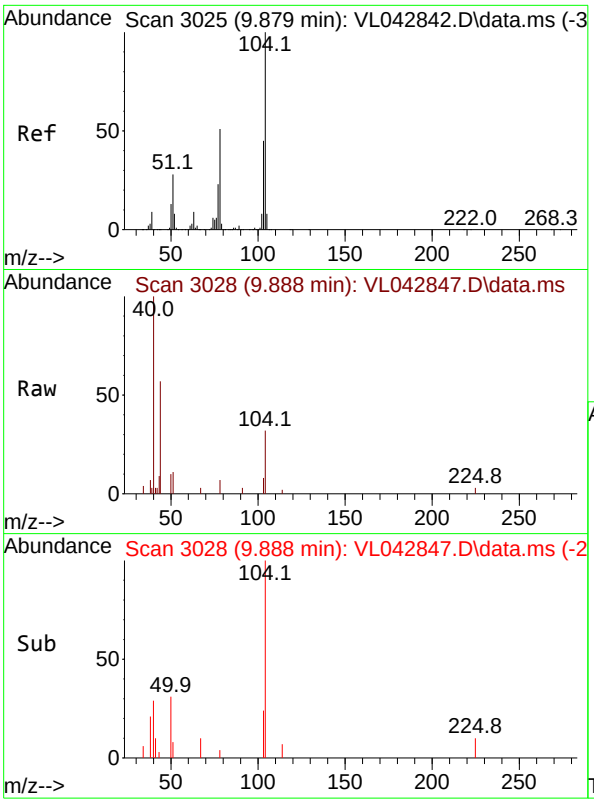


#60
o-Xylene
Concen: 0.036 ppbv
RT: 9.975 min Scan# 3055
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Tgt Ion: 91 Resp: 1722

Ion	Ratio	Lower	Upper
91	100		
106	49.8	21.8	65.4



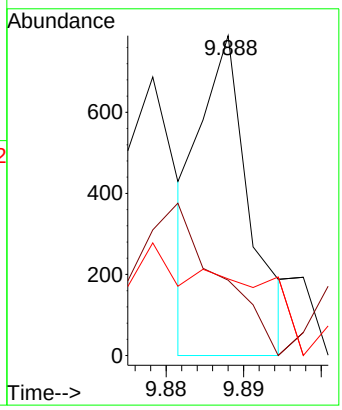


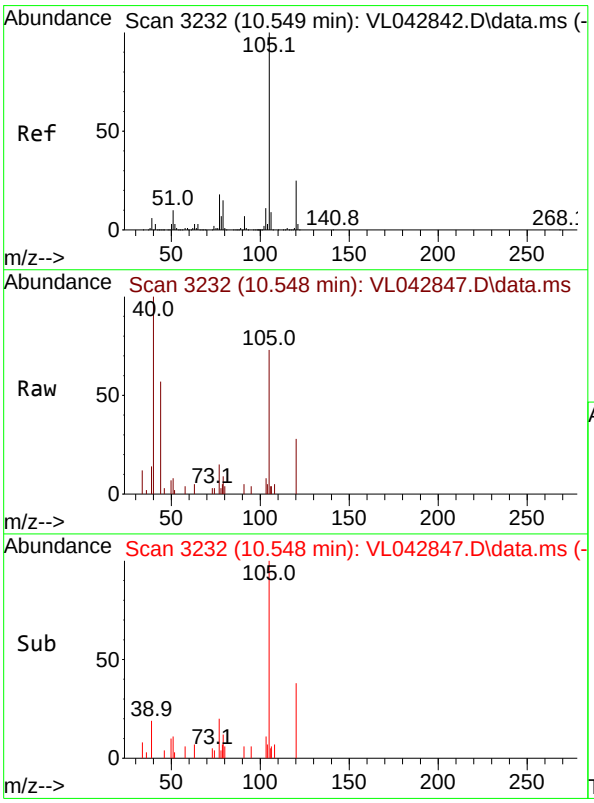
#61
Styrene
Concen: 0.016 ppbv
RT: 9.888 min Scan# 3
Delta R.T. 0.009 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

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#

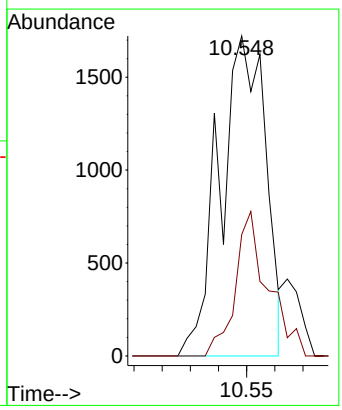


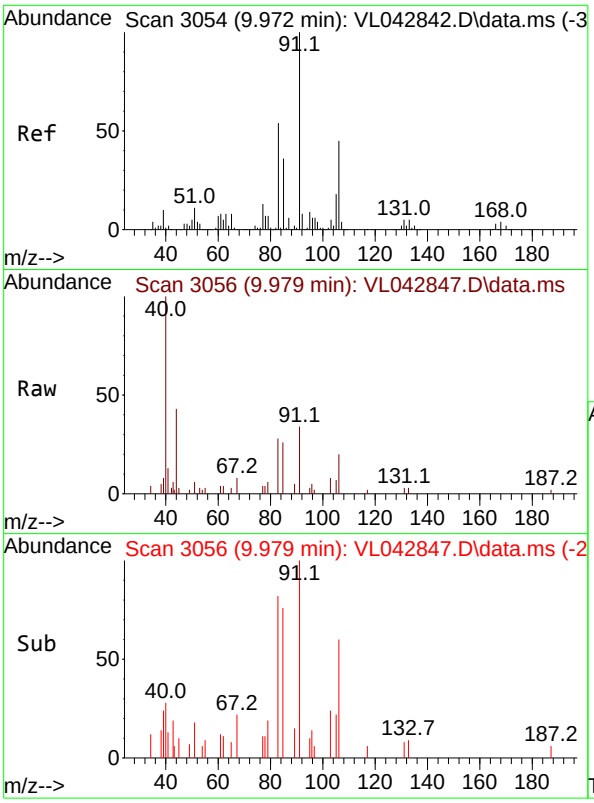


#62
Isopropylbenzene
Concen: 0.028 ppbv
RT: 10.548 min Scan# 3232
Delta R.T. -0.000 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Tgt Ion:105 Resp: 1945

Ion	Ratio	Lower	Upper
105	100		
120	32.1	20.6	30.8#



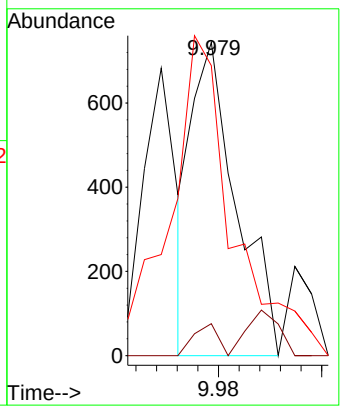


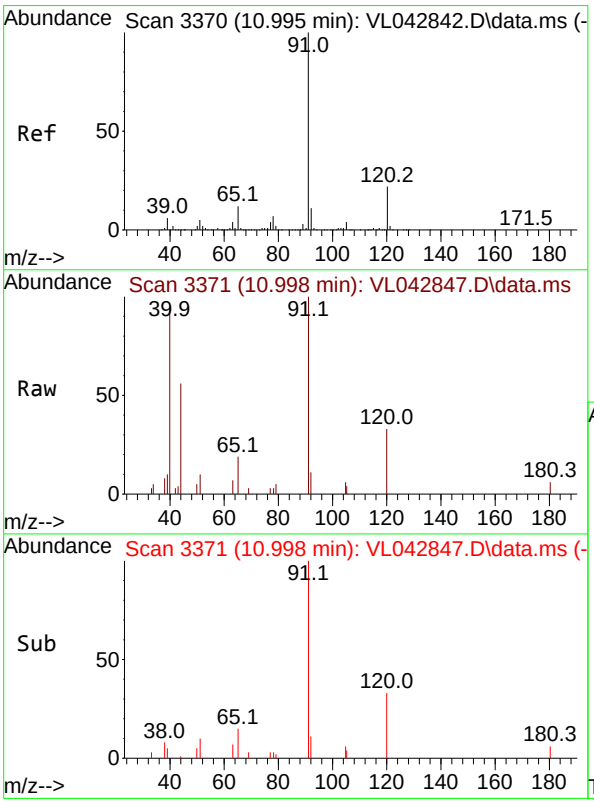
#63
1,1,2,2-Tetrachloroethane
Concen: 0.017 ppbv
RT: 9.979 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

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#

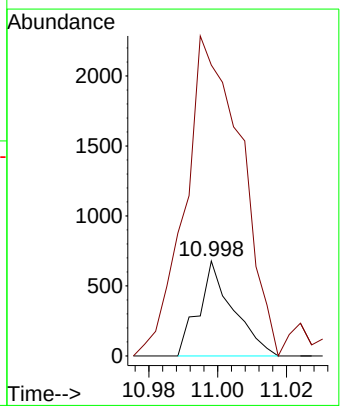


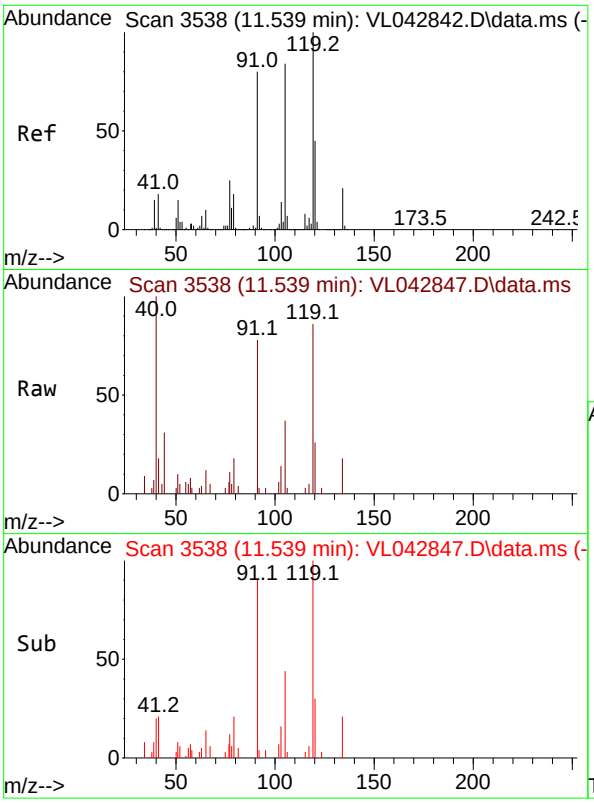


#64
n-propylbenzene
Concen: 0.027 ppbv
RT: 10.998 min Scan# 3371
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Tgt Ion:120 Resp: 470

Ion	Ratio	Lower	Upper
120	100		
91	567.7	375.8	563.6#



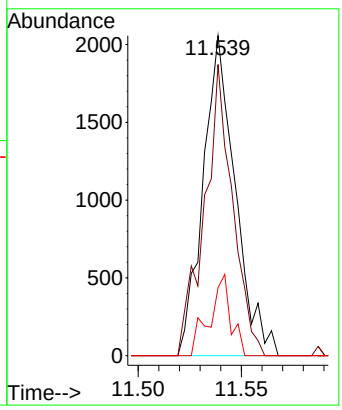


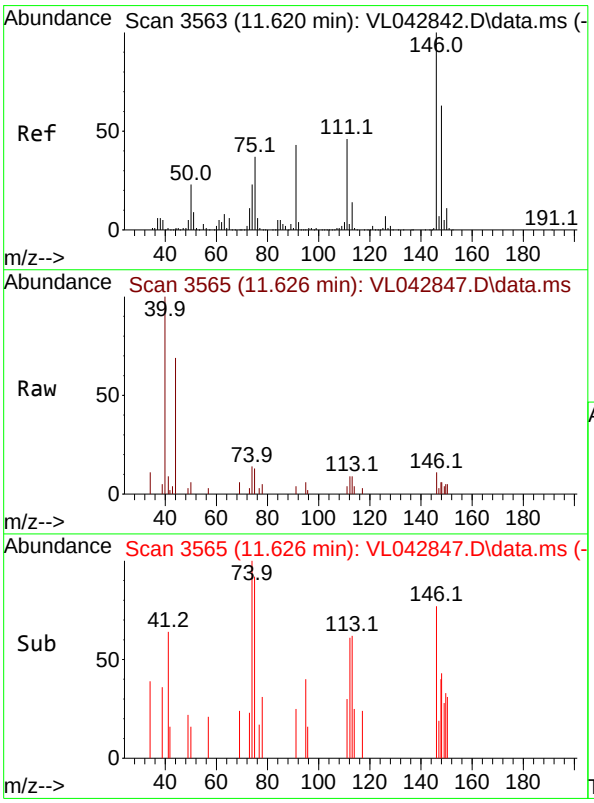
#65
tert-Butylbenzene
Concen: 0.037 ppbv
RT: 11.539 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

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#

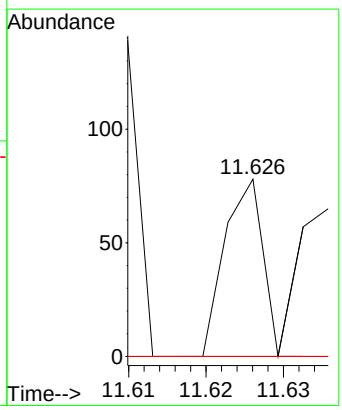


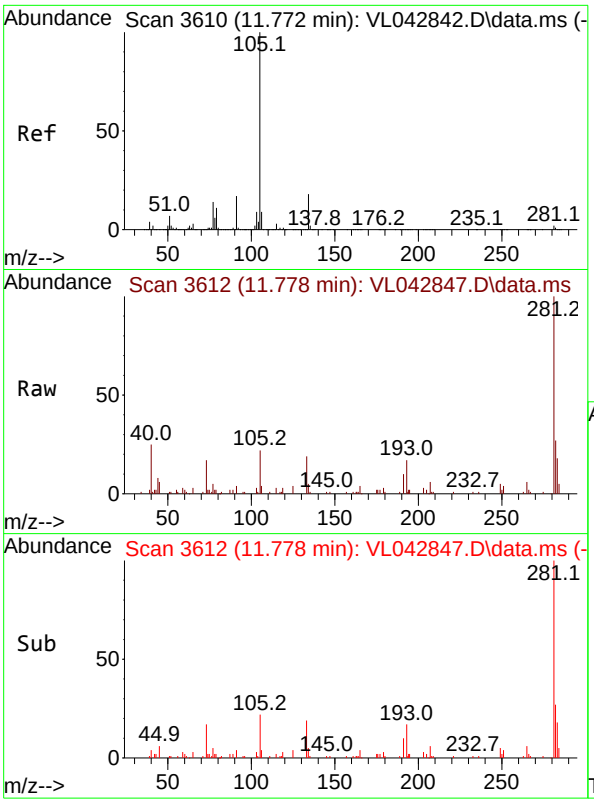


#66
Benzyl Chloride
Concen: 0.003 ppbv
RT: 11.626 min Scan# 3565
Delta R.T. 0.006 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

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#



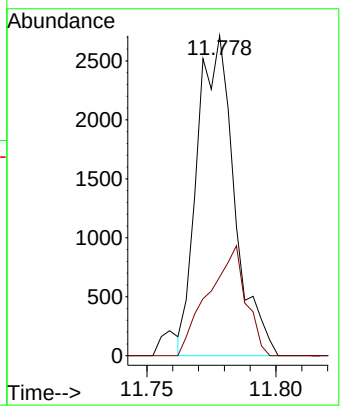


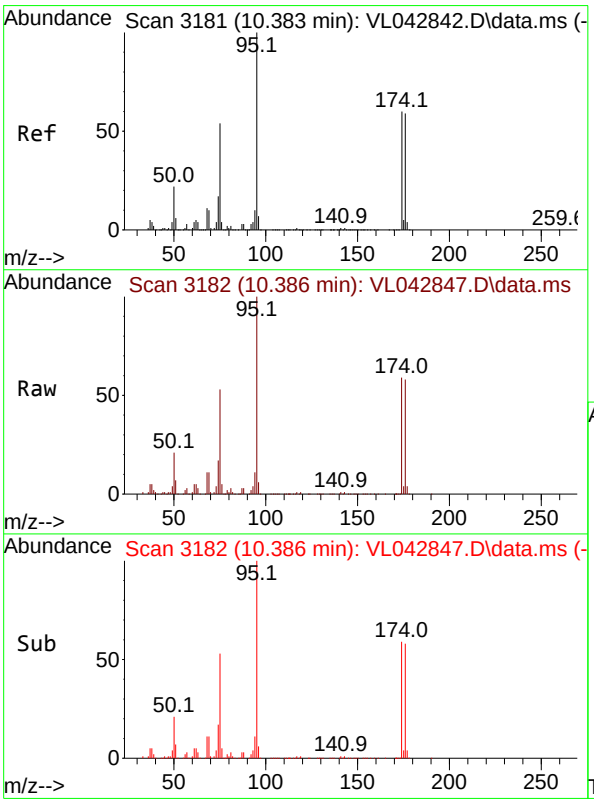
#67
sec-Butylbenzene
Concen: 0.032 ppbv
RT: 11.778 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:105 Resp: 2703

Ion	Ratio	Lower	Upper
105	100		
134	34.8	14.9	22.3#

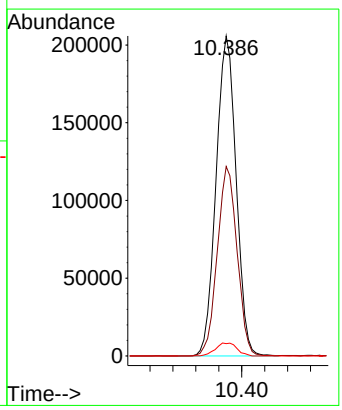


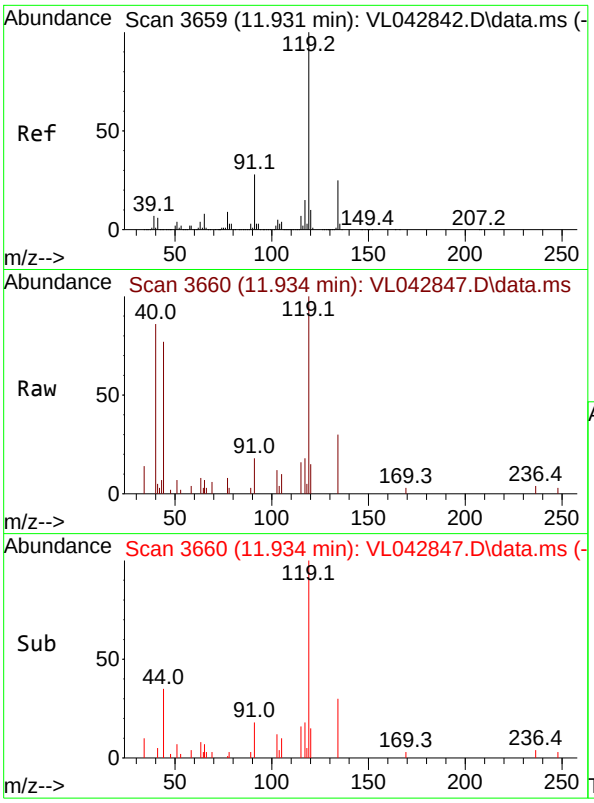


#68
1-Bromo-4-Fluorobenzene
Concen: 9.816 ppbv
RT: 10.386 min Scan# 3182
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

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



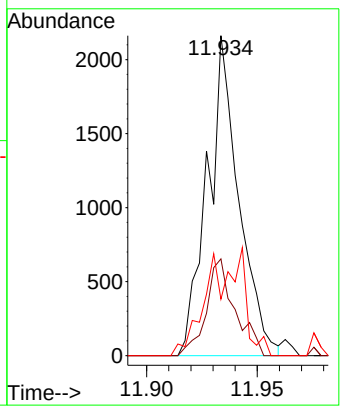


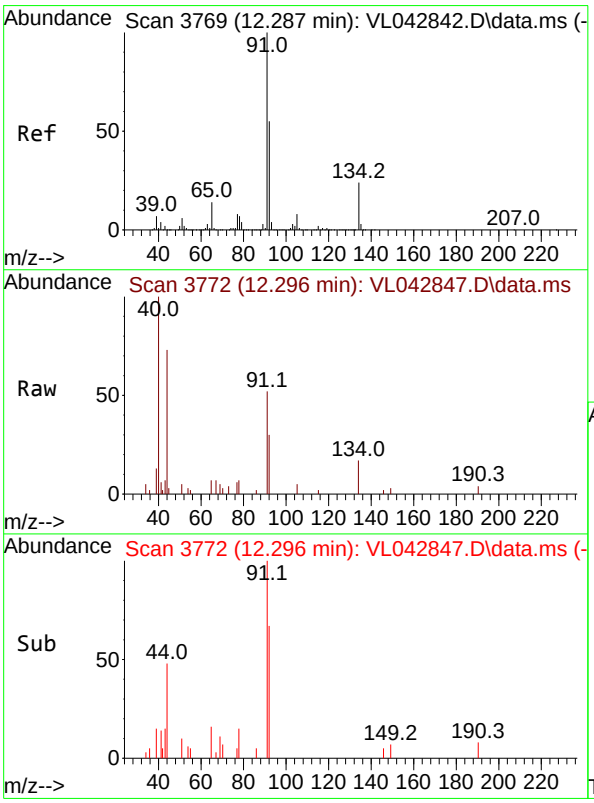
#69
p-Isopropyltoluene
Concen: 0.029 ppbv
RT: 11.934 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

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#

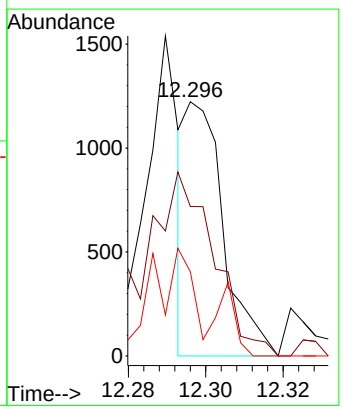


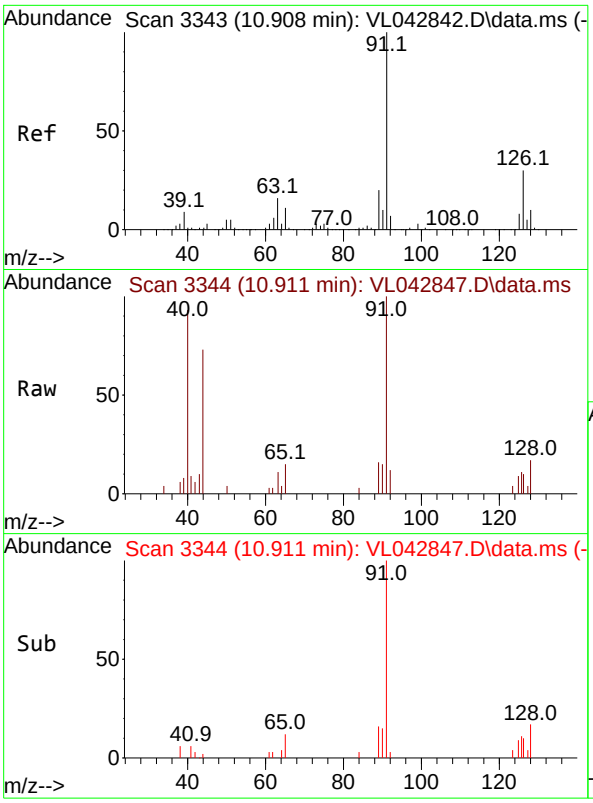


#70
n-Butylbenzene
Concen: 0.011 ppbv
RT: 12.296 min Scan# 3772
Delta R.T. 0.009 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

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#



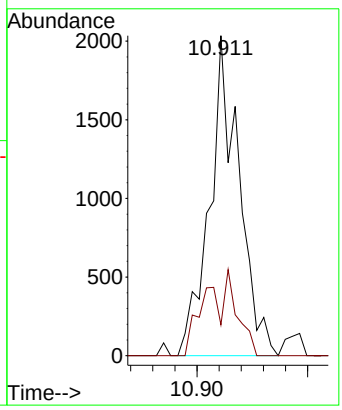


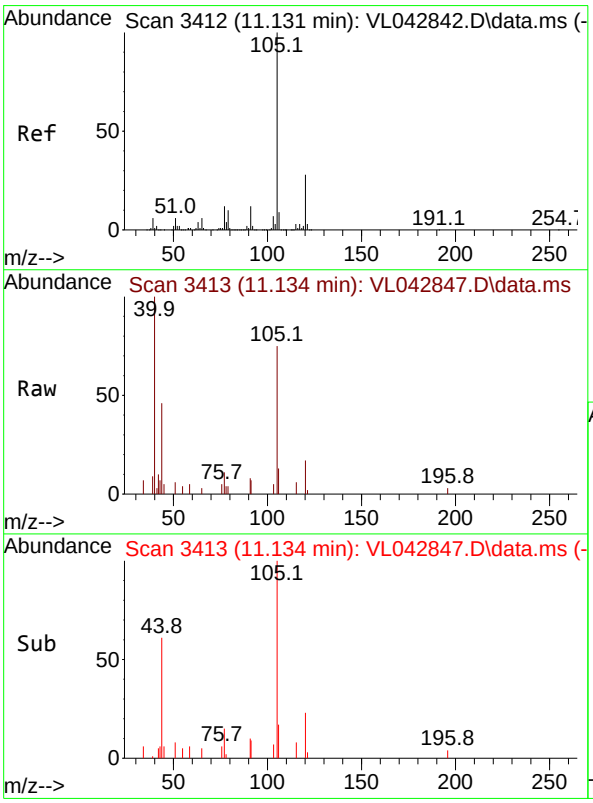
#71
2-Chlorotoluene
Concen: 0.035 ppbv
RT: 10.911 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 91 Resp: 1870

Ion	Ratio	Lower	Upper
91	100		
126	28.4	12.0	47.8

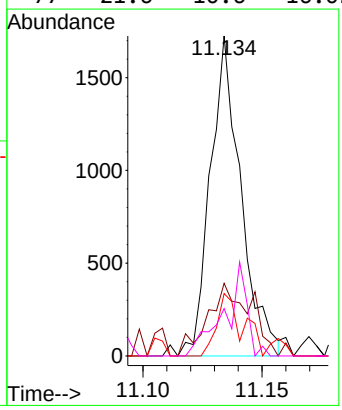


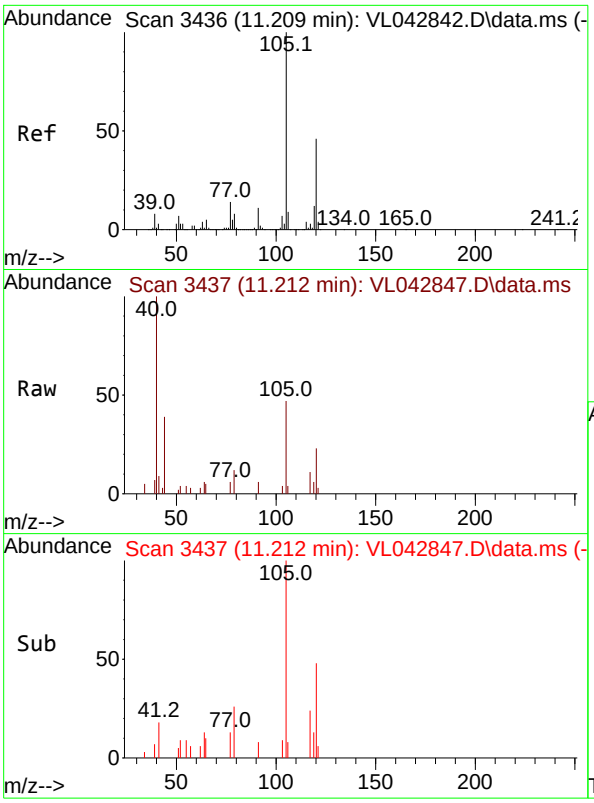


#72
4-Ethyltoluene
Concen: 0.027 ppbv
RT: 11.134 min Scan# 3413
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

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#



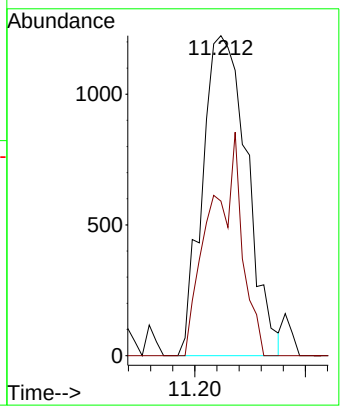


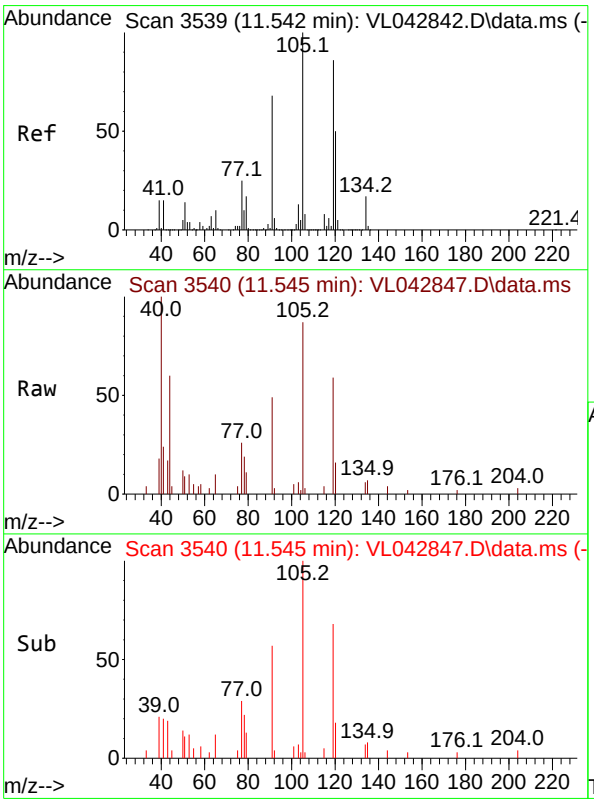
#73
1,3,5-Trimethylbenzene
Concen: 0.035 ppbv
RT: 11.212 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:105 Resp: 1716

Ion	Ratio	Lower	Upper
105	100		
120	48.3	36.6	54.8

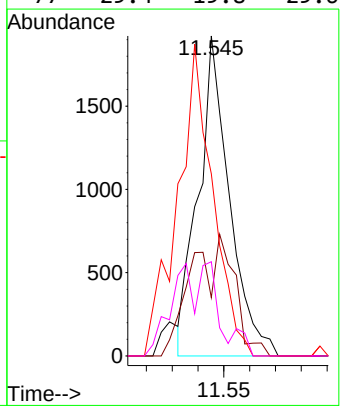


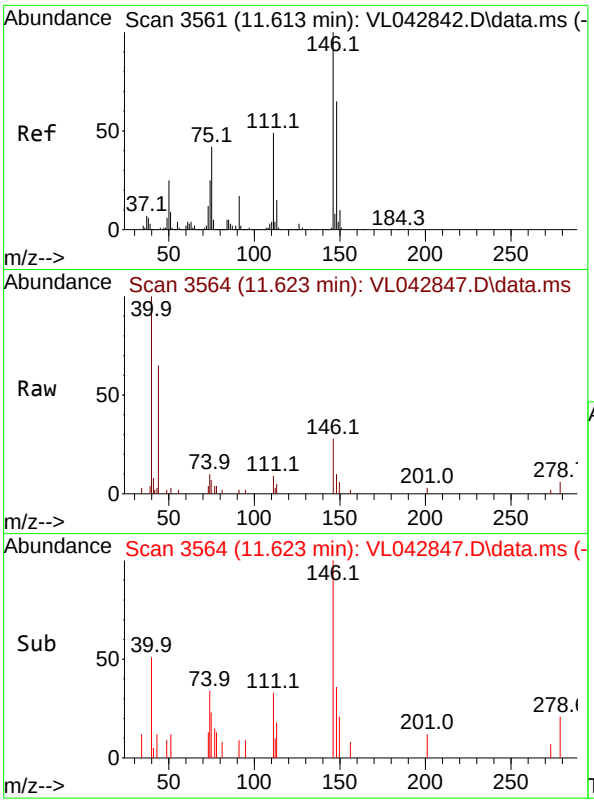


#74
1,2,4-Trimethylbenzene
Concen: 0.030 ppbv
RT: 11.545 min Scan# 3540
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

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



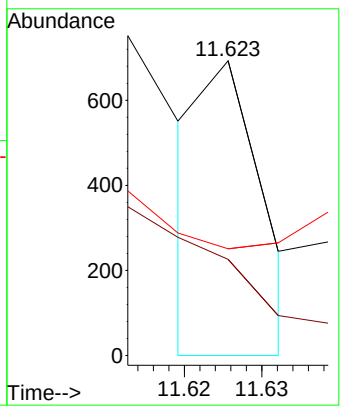


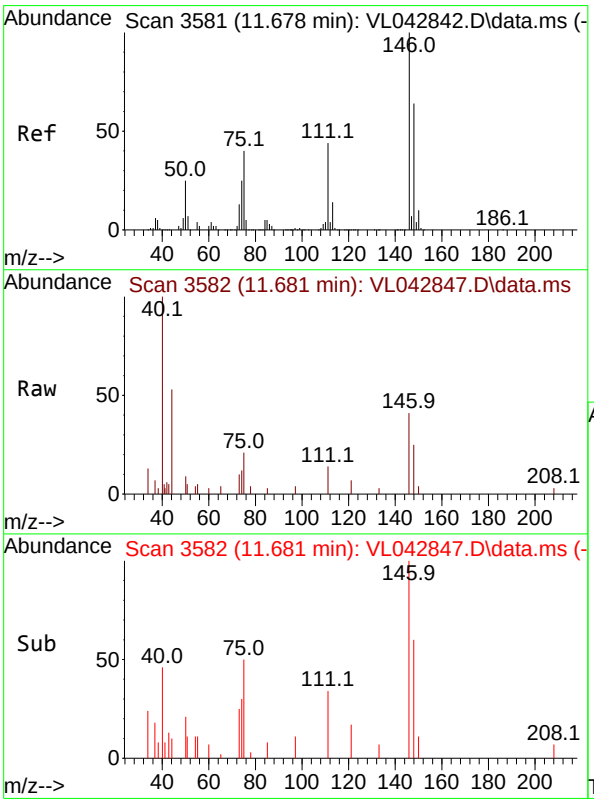
#75
1,3-Dichlorobenzene
Concen: 0.006 ppbv
RT: 11.623 min Scan# 3
Delta R.T. 0.009 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

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#

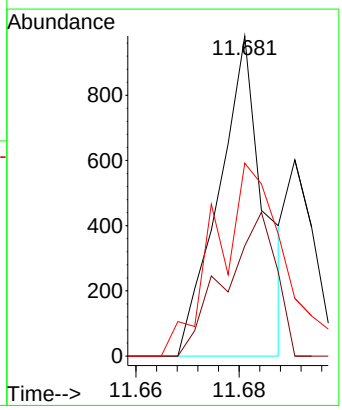


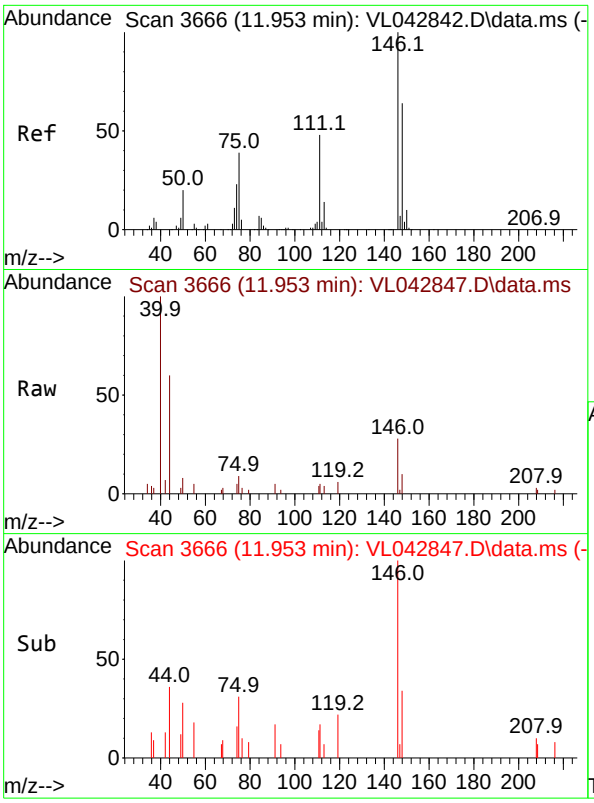


#76
1,4-Dichlorobenzene
Concen: 0.019 ppbv
RT: 11.681 min Scan# 3582
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

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



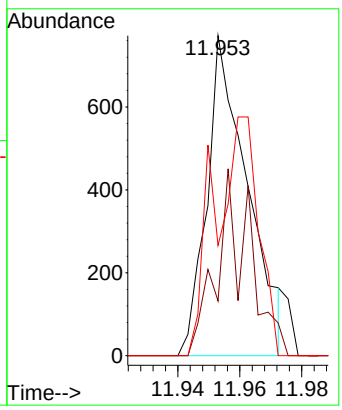


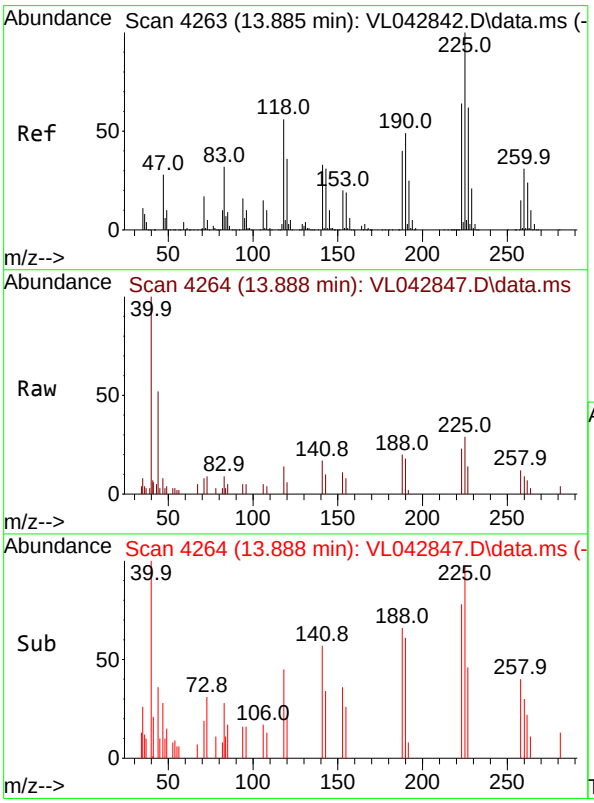
#77
1,2-Dichlorobenzene
Concen: 0.024 ppbv
RT: 11.953 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

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

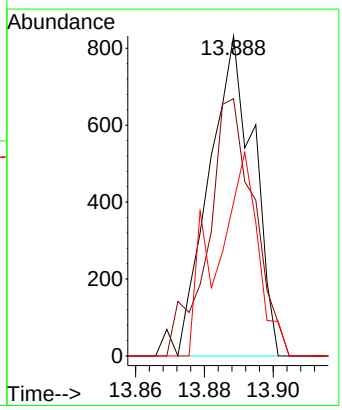


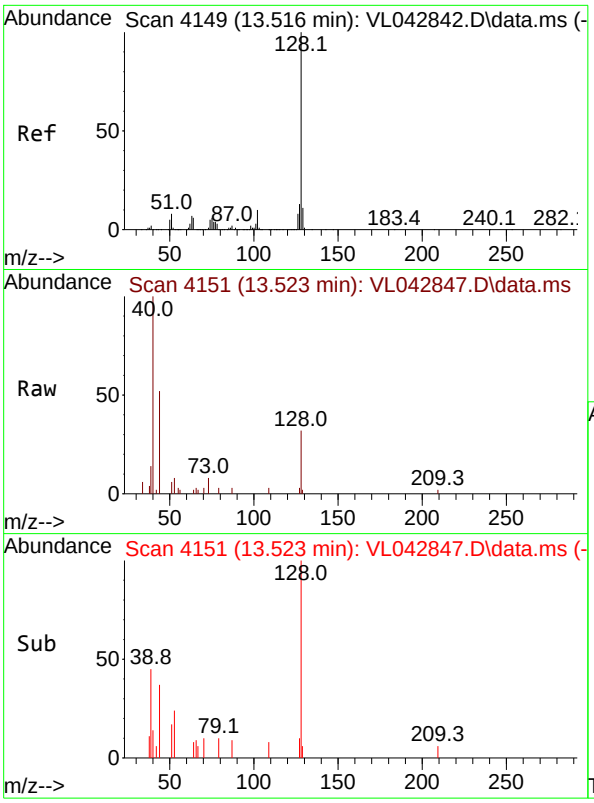


#78
Hexachloro-1,3-Butadiene
Concen: 0.030 ppbv
RT: 13.888 min Scan# 4264
Delta R.T. 0.003 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

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



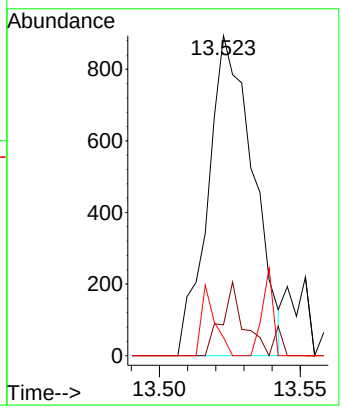


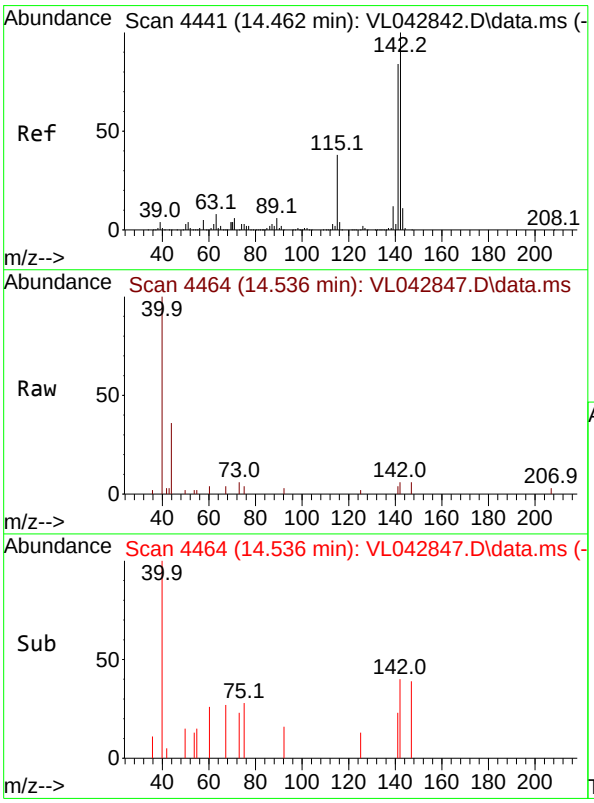
#79
Naphthalene
Concen: 0.021 ppbv
RT: 13.523 min Scan# 4
Delta R.T. 0.006 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

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#

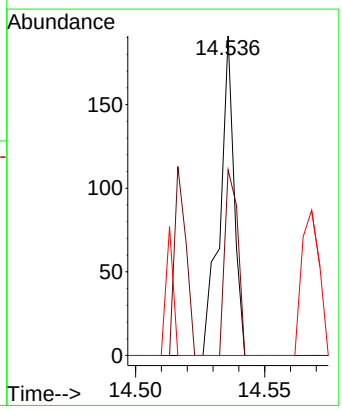


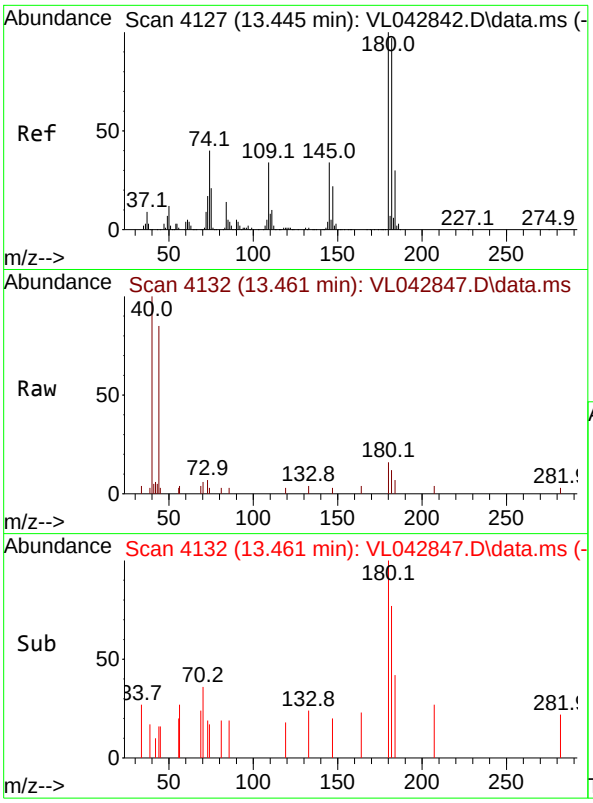


#80
Naphthalene,2-methyl-
Concen: 0.004 ppbv
RT: 14.536 min Scan# 4464
Delta R.T. 0.074 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

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#



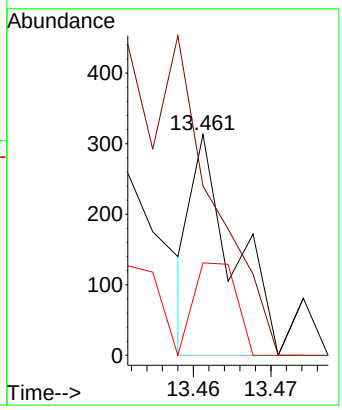


#81
1,2,4-Trichlorobenzene
Concen: 0.005 ppbv
RT: 13.461 min Scan# 4
Delta R.T. 0.016 min
Lab File: VL042847.D
Acq: 13 Aug 2025 11:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:180 Resp: 114

Ion	Ratio	Lower	Upper
180	100		
182	352.6	76.9	115.3#
184	0.0	24.5	36.7#



Quantitation Report (Not Reviewed)

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

Quant Time: Aug 14 01:51:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 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

Quantitation Report (Not Reviewed)

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

Quant Time: Aug 14 01:51:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 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

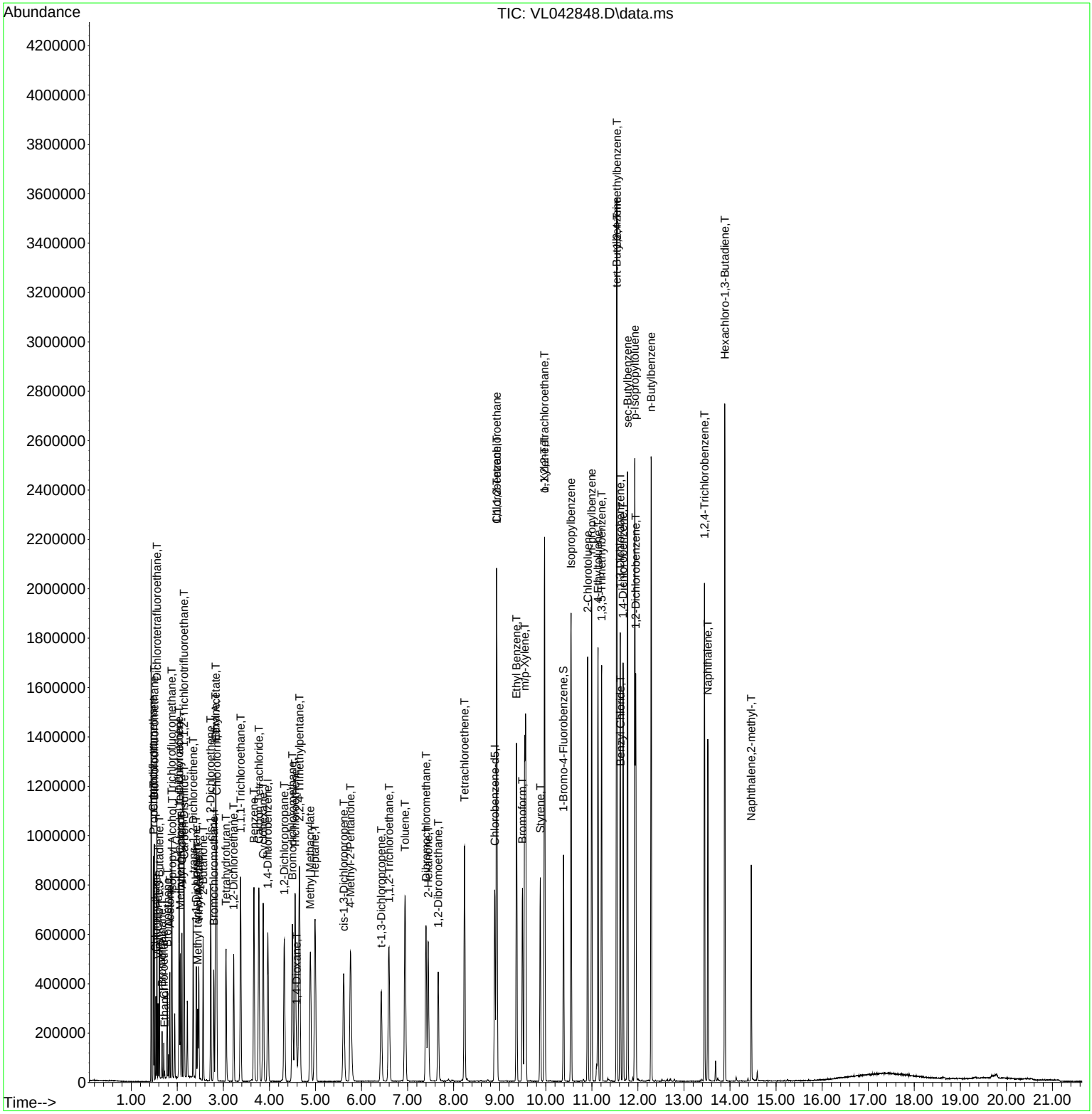
(#) = qualifier out of range (m) = manual integration (+) = signals summed

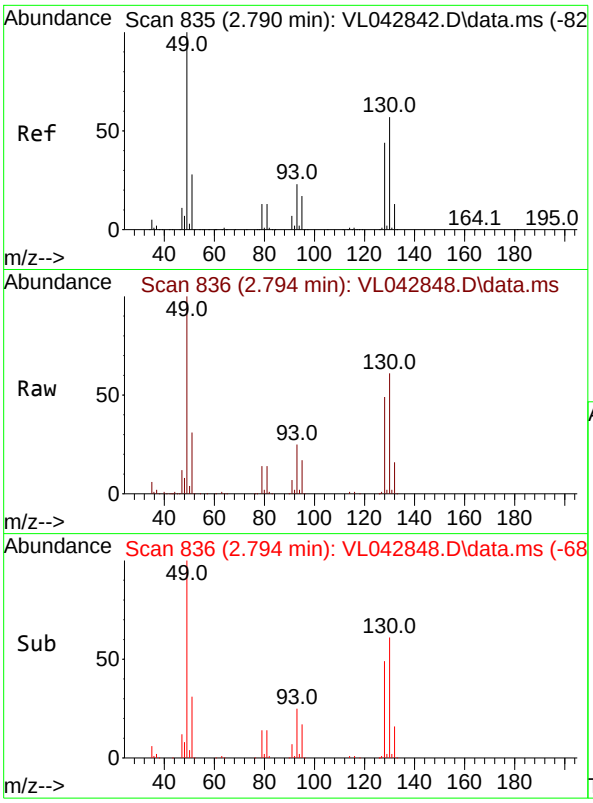
Quantitation Report (Not Reviewed)

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

Quant Time: Aug 14 01:51:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Aug 14 01:44:36 2025
Response via : Initial Calibration



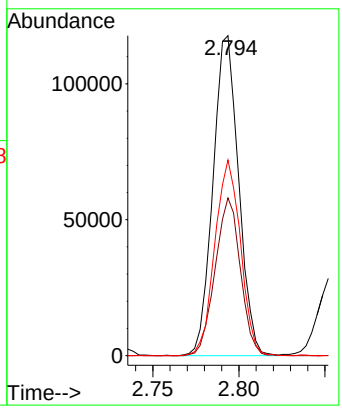


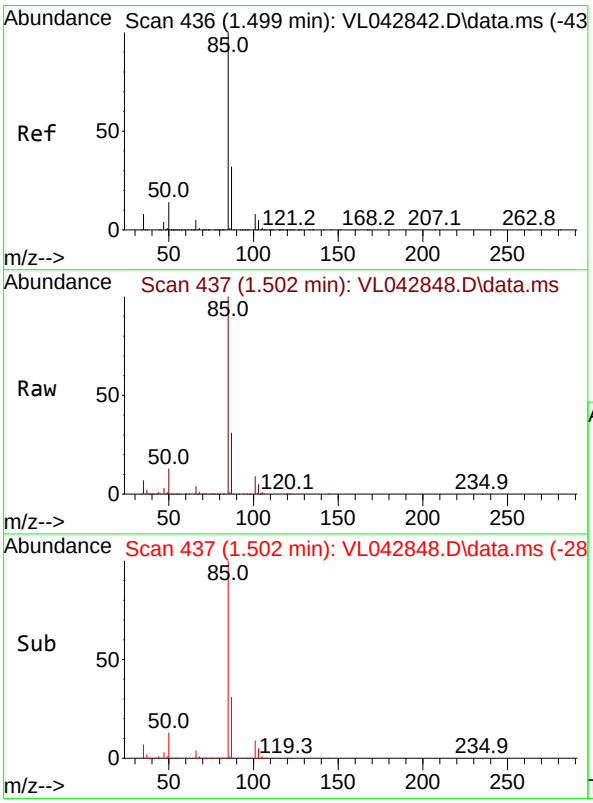
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.794 min Scan# 8
Delta R.T. 0.004 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

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

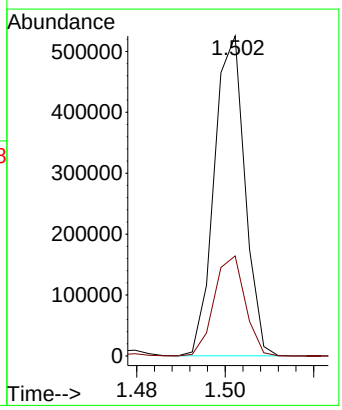


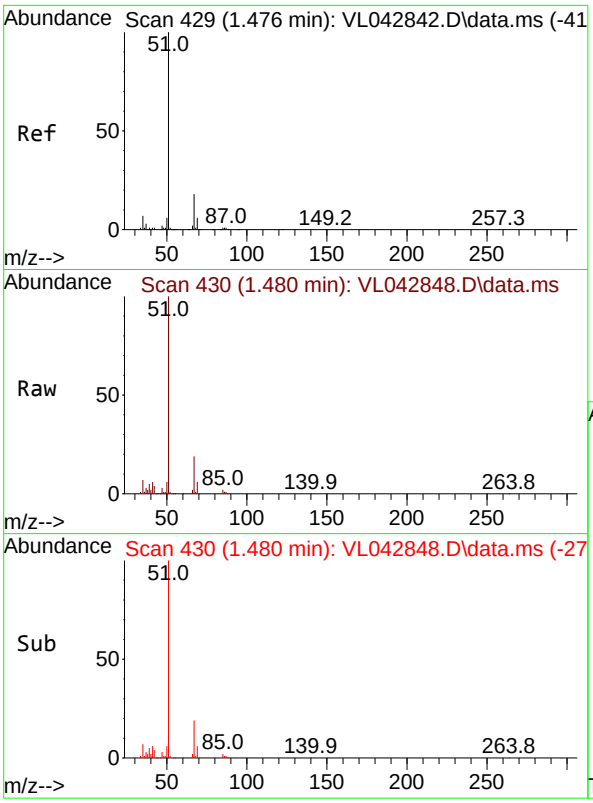


#2
Dichlorodifluoromethane
Concen: 14.150 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 85 Resp: 253151

Ion	Ratio	Lower	Upper
85	100		
87	31.2	25.3	37.9



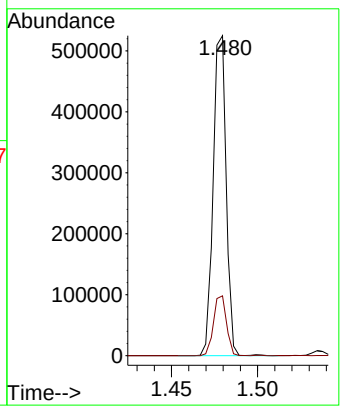


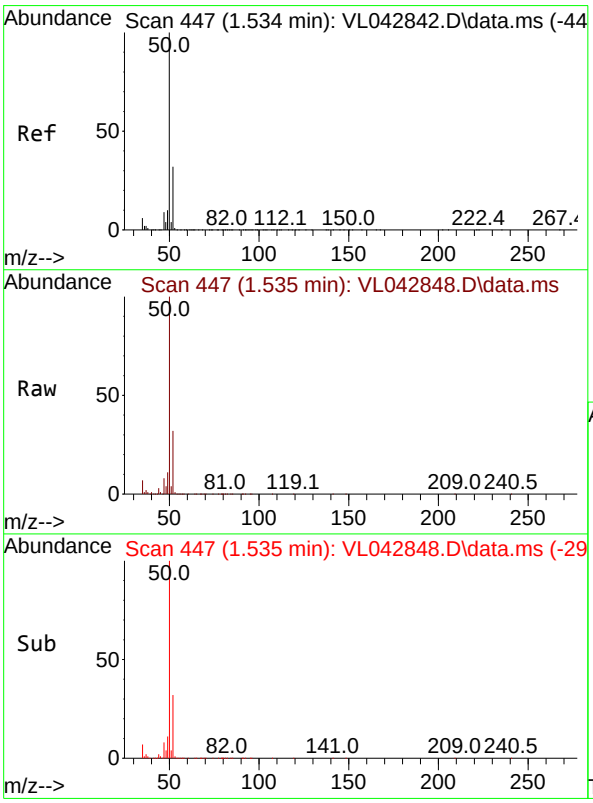
#3
Chlorodifluoromethane
Concen: 13.910 ppbv
RT: 1.480 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 51 Resp: 275350

Ion	Ratio	Lower	Upper
51	100		
67	18.9	14.9	22.3

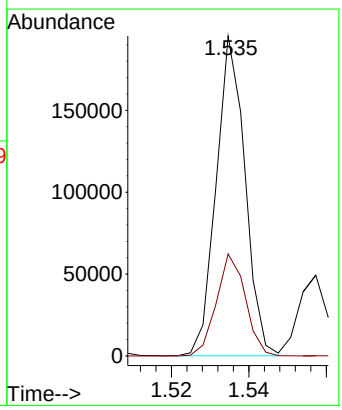


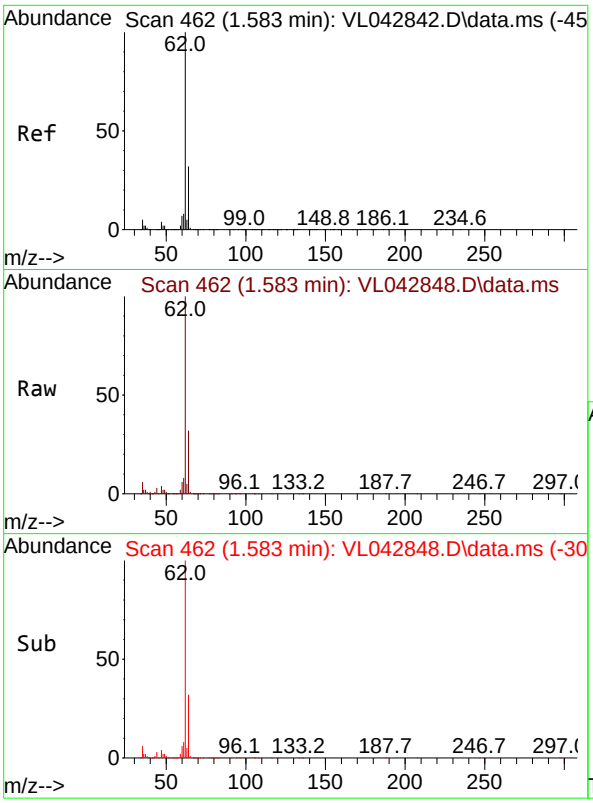


#4
Chloromethane
Concen: 13.986 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 50 Resp: 100974

Ion	Ratio	Lower	Upper
50	100		
52	31.9	25.9	38.9



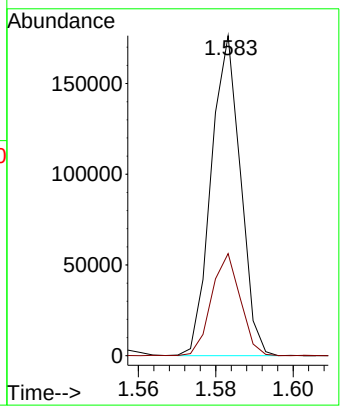


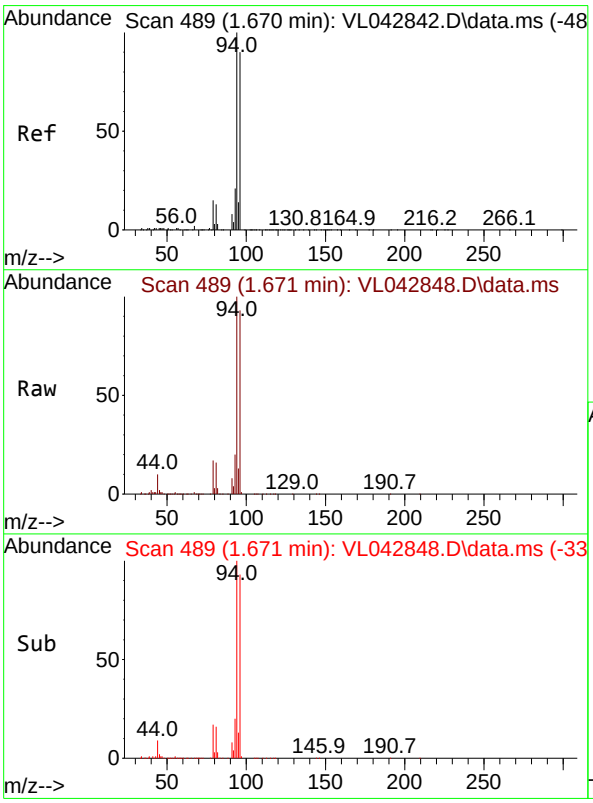
#5
Vinyl Chloride
Concen: 13.053 ppbv
RT: 1.583 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 62 Resp: 92812

Ion	Ratio	Lower	Upper
62	100		
64	31.8	25.4	38.2

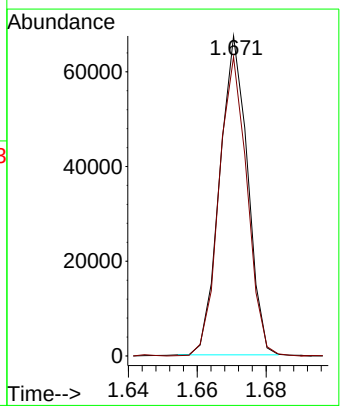


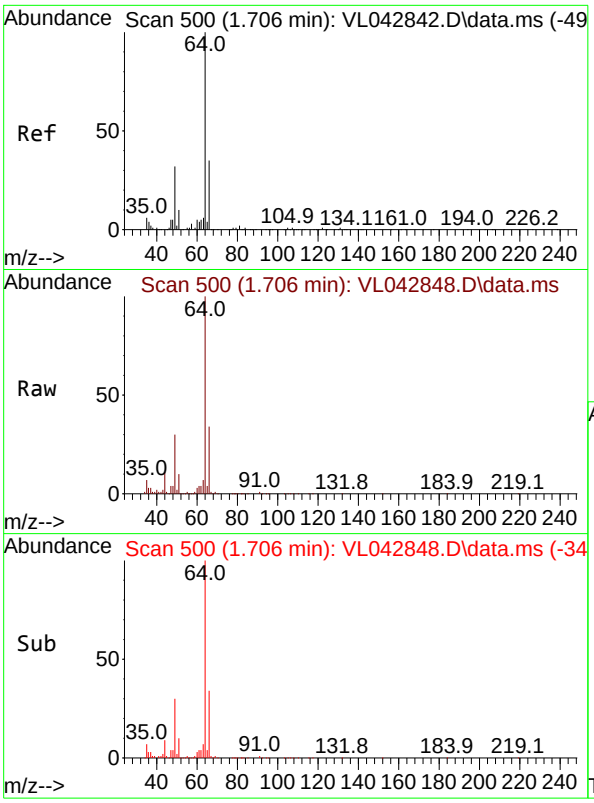


#6
Bromomethane
Concen: 13.275 ppbv
RT: 1.671 min Scan# 489
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 94 Resp: 37740

Ion	Ratio	Lower	Upper
94	100		
96	93.7	72.1	108.1



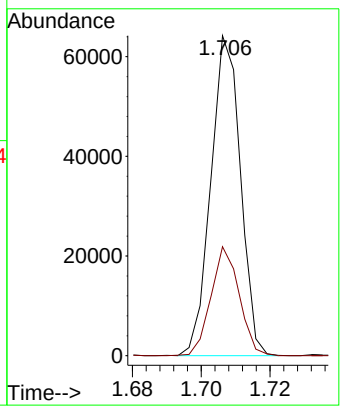


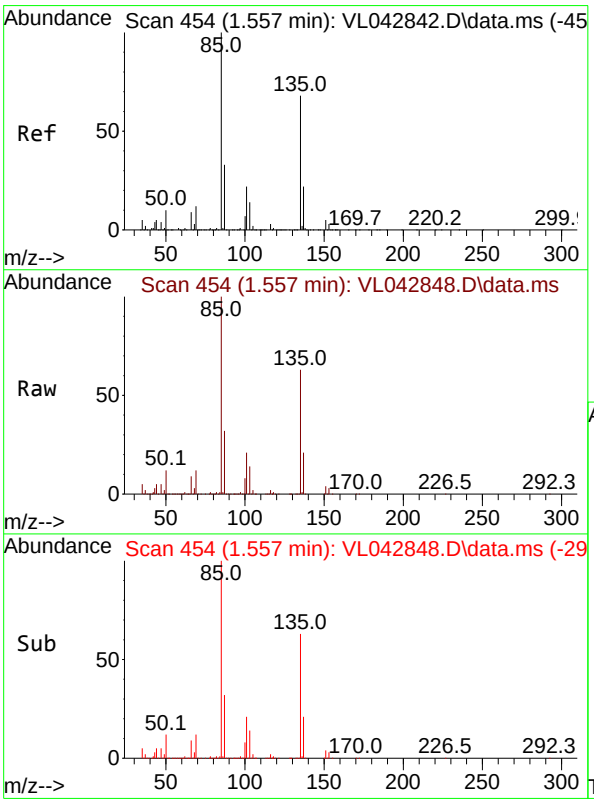
#7
Chloroethane
Concen: 13.828 ppbv
RT: 1.706 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 64 Resp: 38398

Ion	Ratio	Lower	Upper
64	100		
66	34.1	28.6	42.8

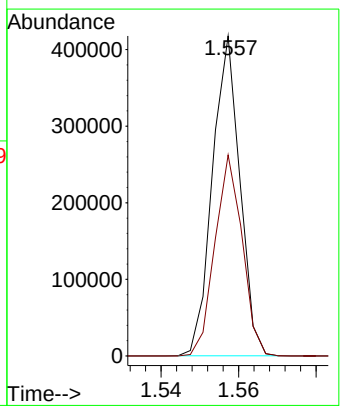


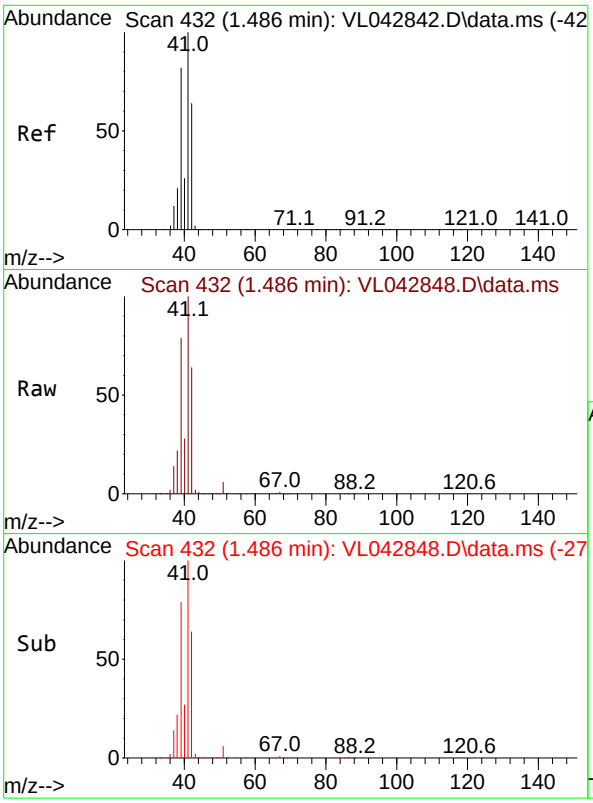


#8
Dichlorotetrafluoroethane
Concen: 14.029 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 85 Resp: 205386

Ion	Ratio	Lower	Upper
85	100		
135	62.7	51.2	76.8



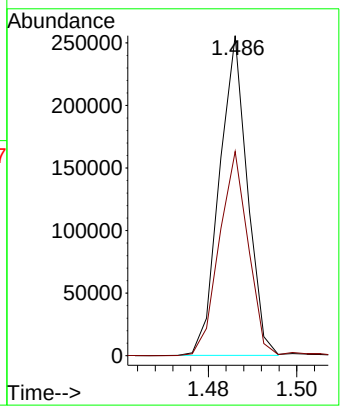


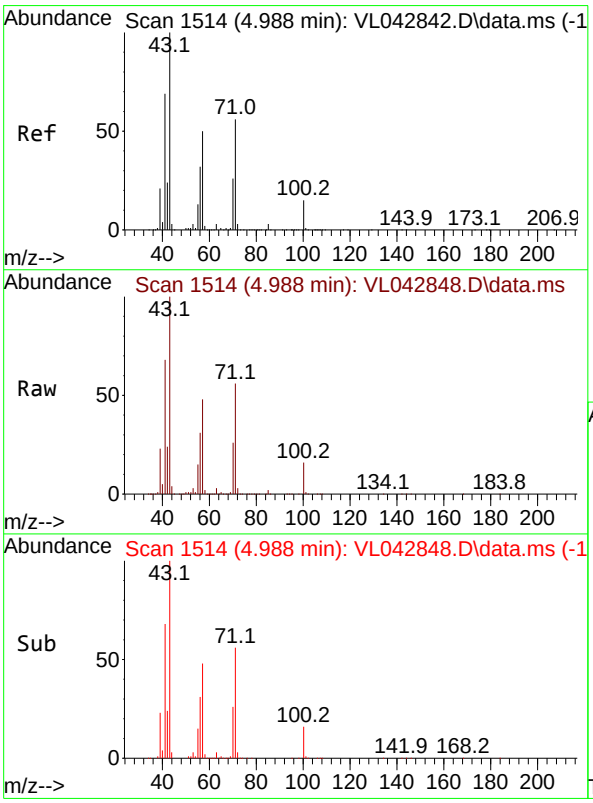
#9
Propene
Concen: 13.094 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 41 Resp: 111824

Ion	Ratio	Lower	Upper
41	100		
42	67.0	53.0	79.4

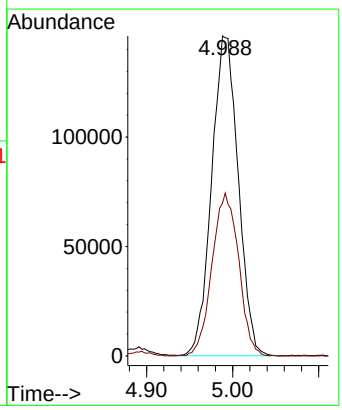


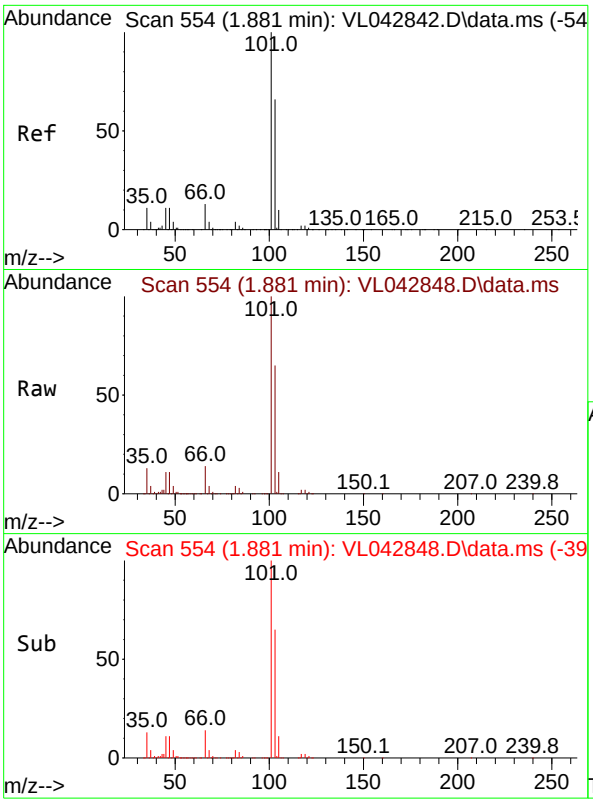


#10
Heptane
Concen: 13.742 ppbv
RT: 4.988 min Scan# 1514
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 43 Resp: 313734

Ion	Ratio	Lower	Upper
43	100		
57	51.0	41.4	62.0



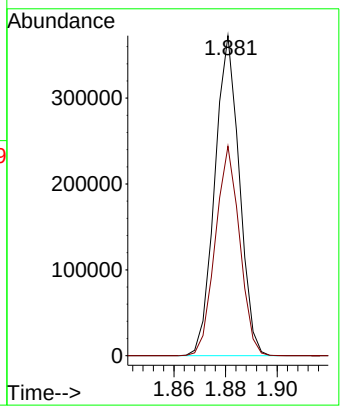


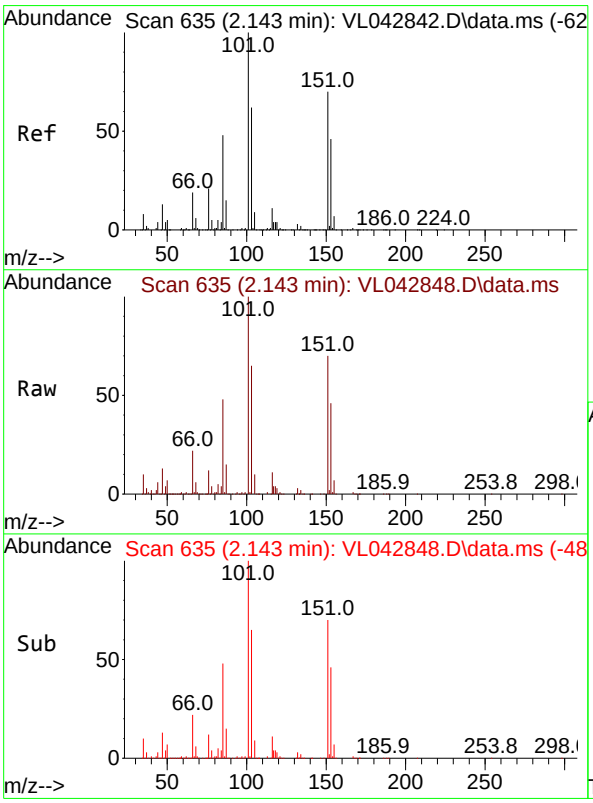
#11
Trichlorofluoromethane
Concen: 13.957 ppbv
RT: 1.881 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:101 Resp: 246354

Ion	Ratio	Lower	Upper
101	100		
103	65.5	52.5	78.7

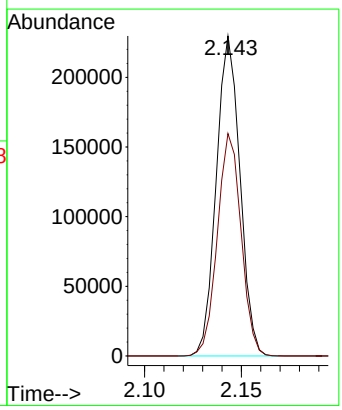


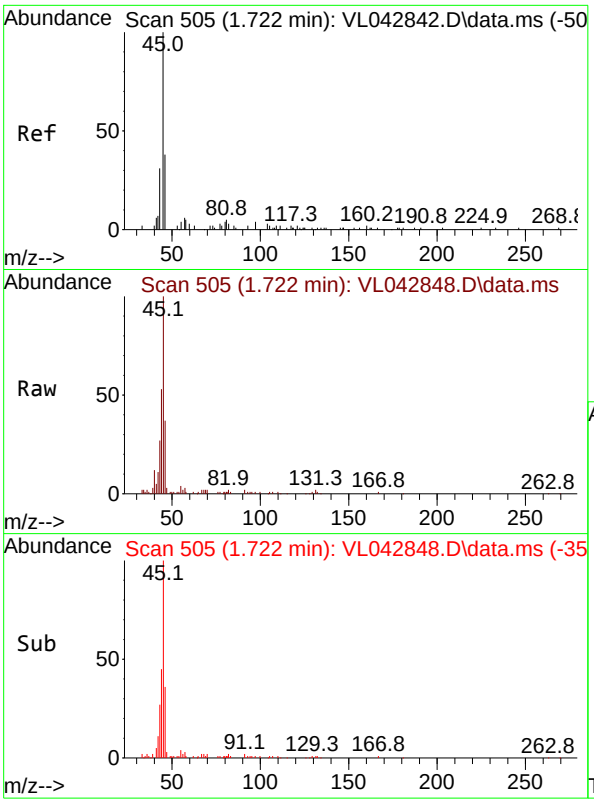


#12
1,1,2-Trichlorotrifluoroethane
Concen: 13.877 ppbv
RT: 2.143 min Scan# 635
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion:101 Resp: 195231

Ion	Ratio	Lower	Upper
101	100		
151	69.7	56.4	84.6



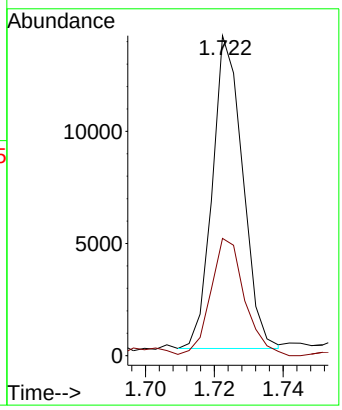


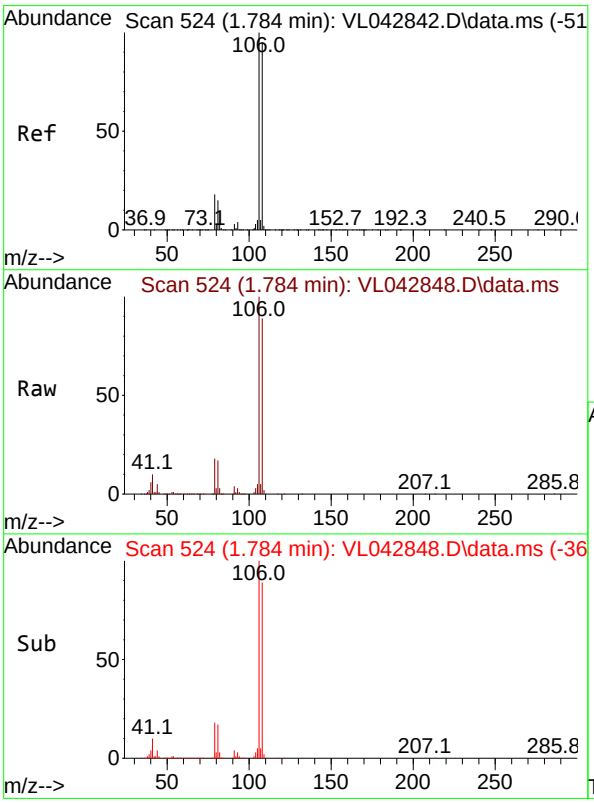
#13
Ethanol
Concen: 10.086 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 45 Resp: 8534

Ion	Ratio	Lower	Upper
45	100		
46	42.3	17.5	69.9

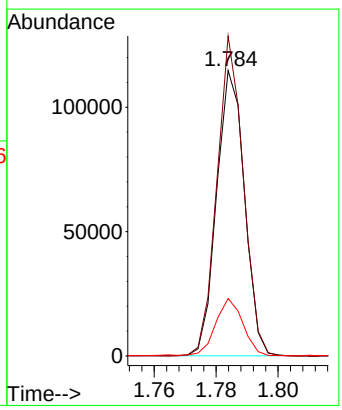


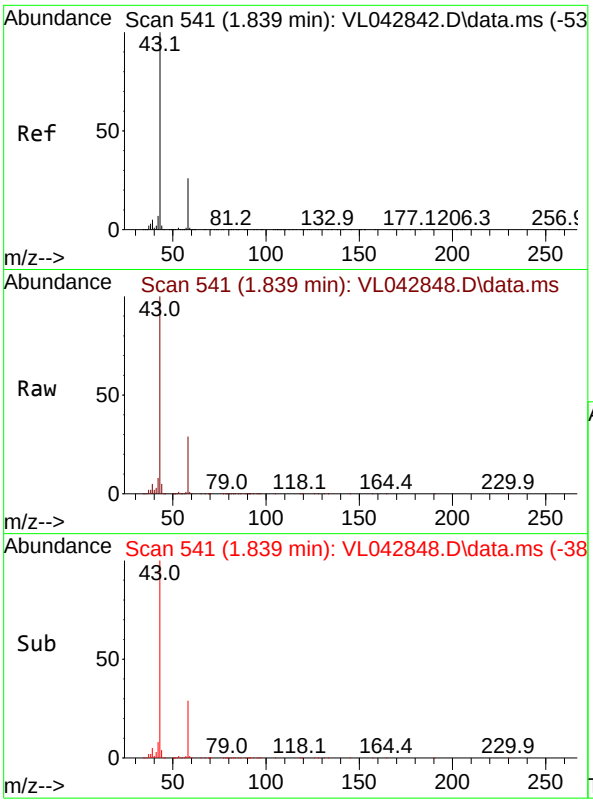


#14
Bromoethene
Concen: 14.072 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

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



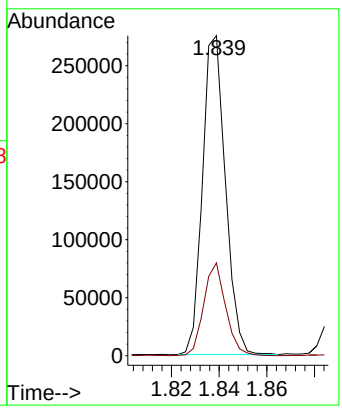


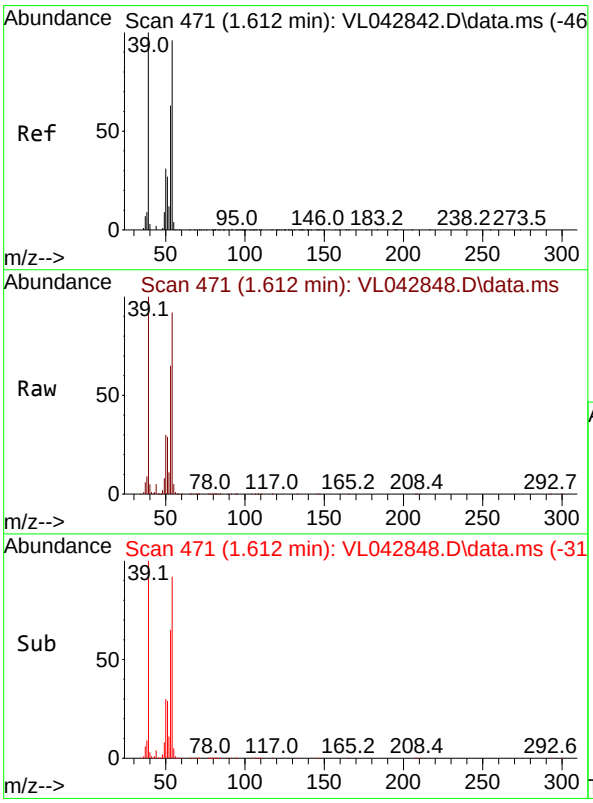
#15
Acetone
Concen: 11.402 ppbv
RT: 1.839 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 43 Resp: 184116

Ion	Ratio	Lower	Upper
43	100		
58	27.9	22.4	33.6

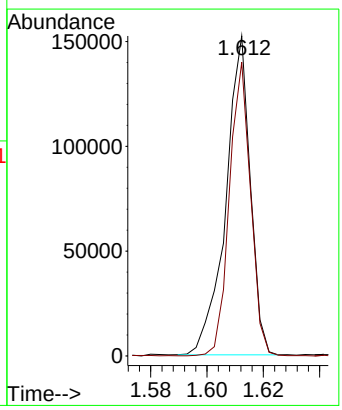


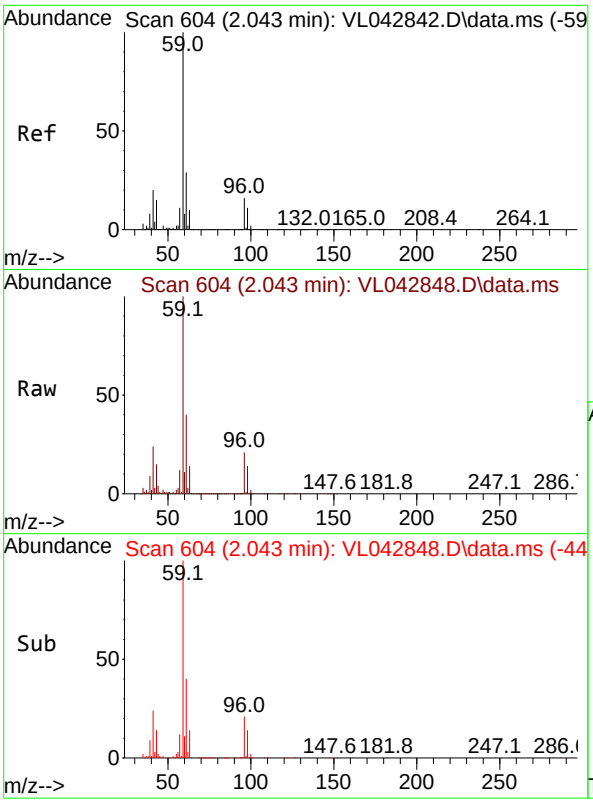


#16
1,3-Butadiene
Concen: 12.577 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 39 Resp: 92068

Ion	Ratio	Lower	Upper
39	100		
54	79.7	63.6	95.4



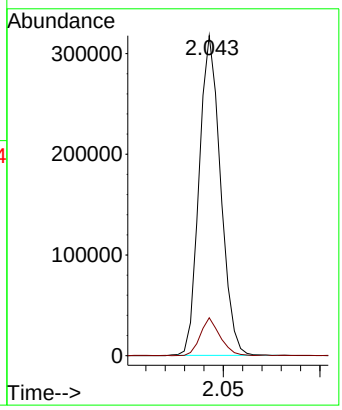


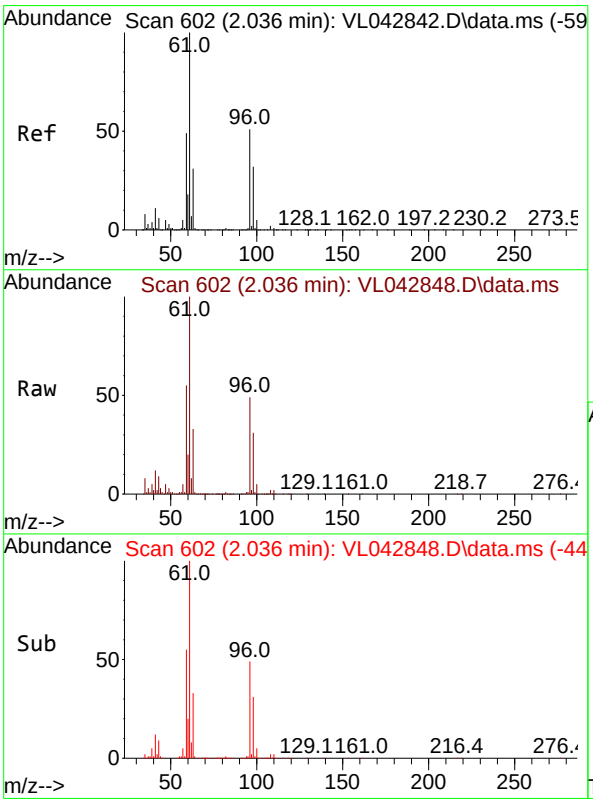
#17
tert-Butyl alcohol
Concen: 12.765 ppbv
RT: 2.043 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 59 Resp: 244441

Ion	Ratio	Lower	Upper
59	100		
57	11.3	9.0	13.4

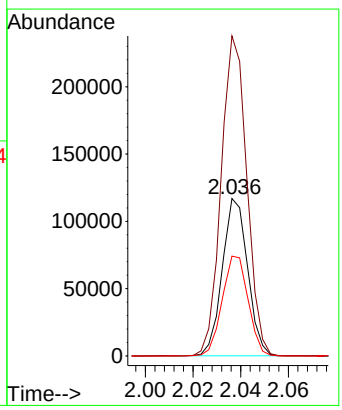


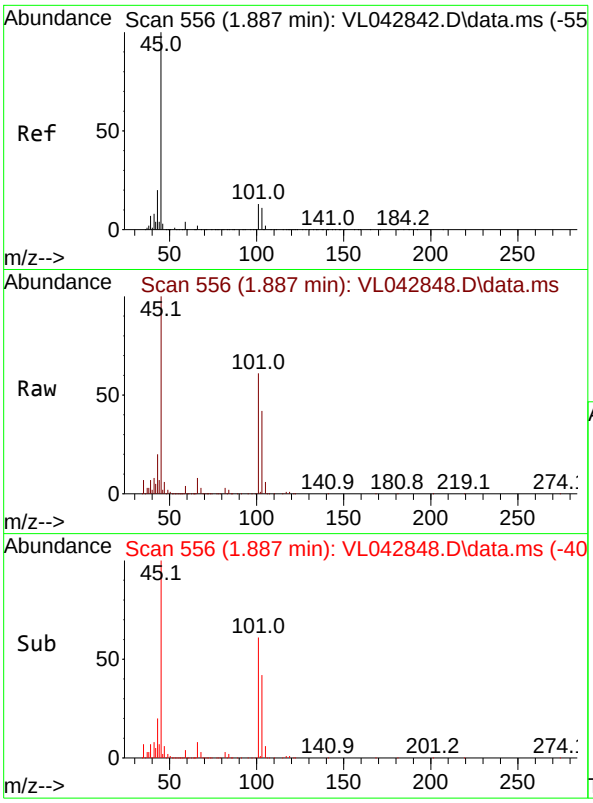


#18
1,1-Dichloroethene
Concen: 13.961 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

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



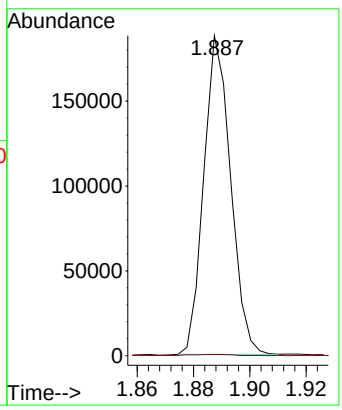


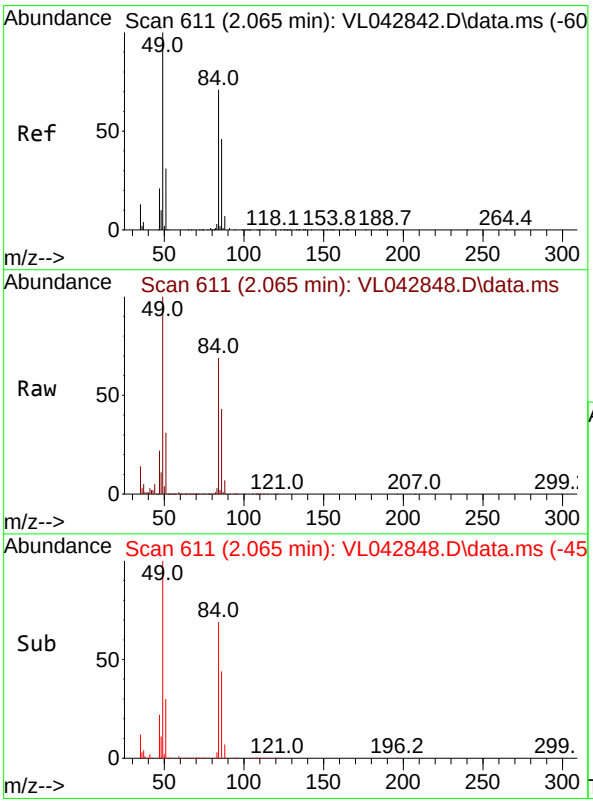
#19
Isopropyl Alcohol
Concen: 12.885 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 45 Resp: 124270

Ion	Ratio	Lower	Upper
45	100		
58	41.3	32.7	49.1

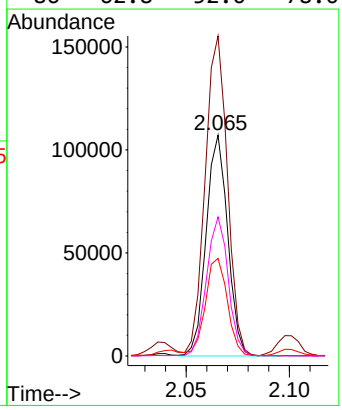


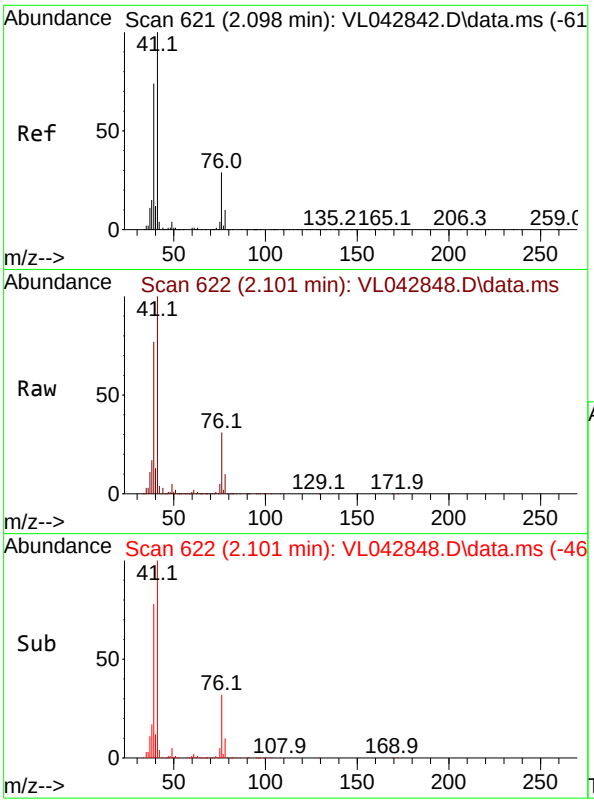


#20
Methylene Chloride
Concen: 11.494 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

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



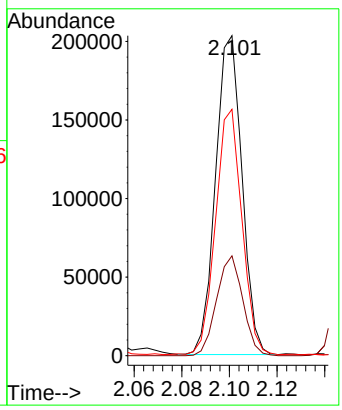


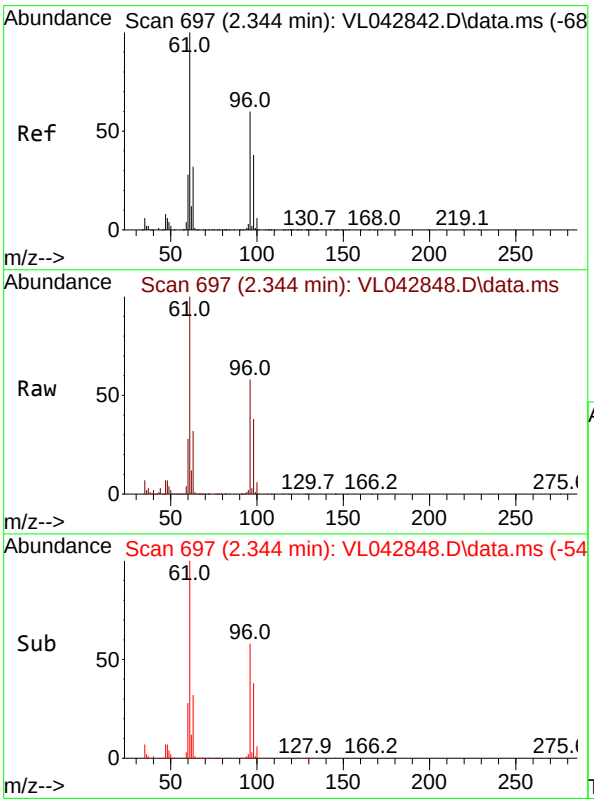
#21
Allyl Chloride
Concen: 13.703 ppbv
RT: 2.101 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

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

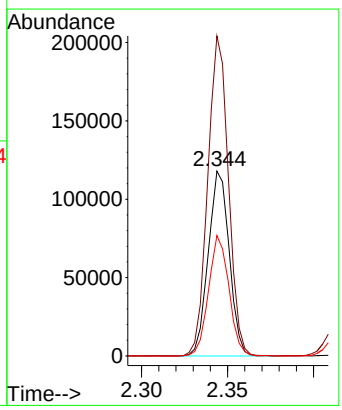


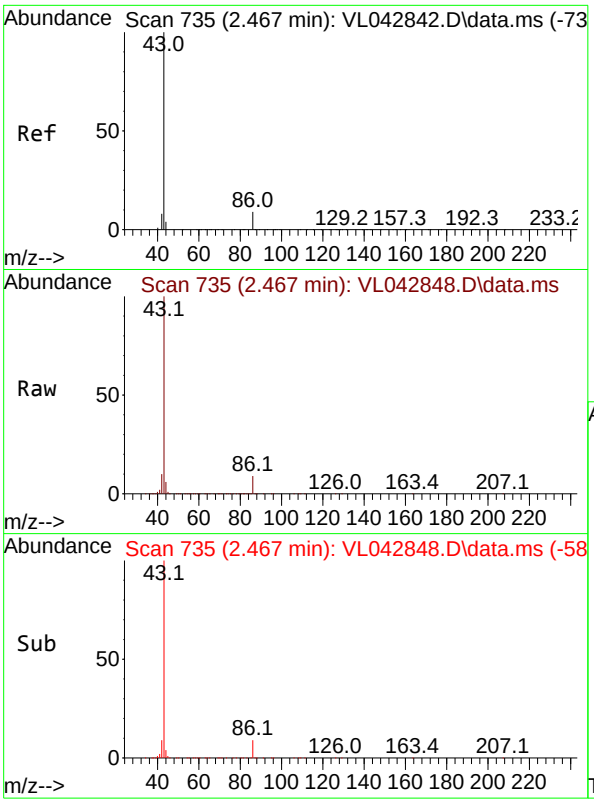


#22
trans-1,2-Dichloroethene
Concen: 14.465 ppbv
RT: 2.344 min Scan# 697
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

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



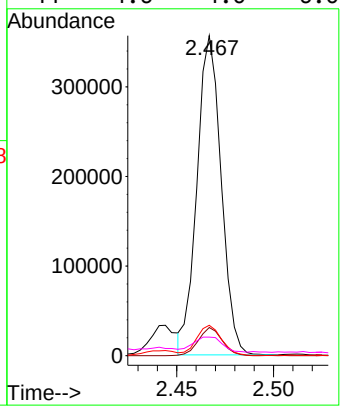


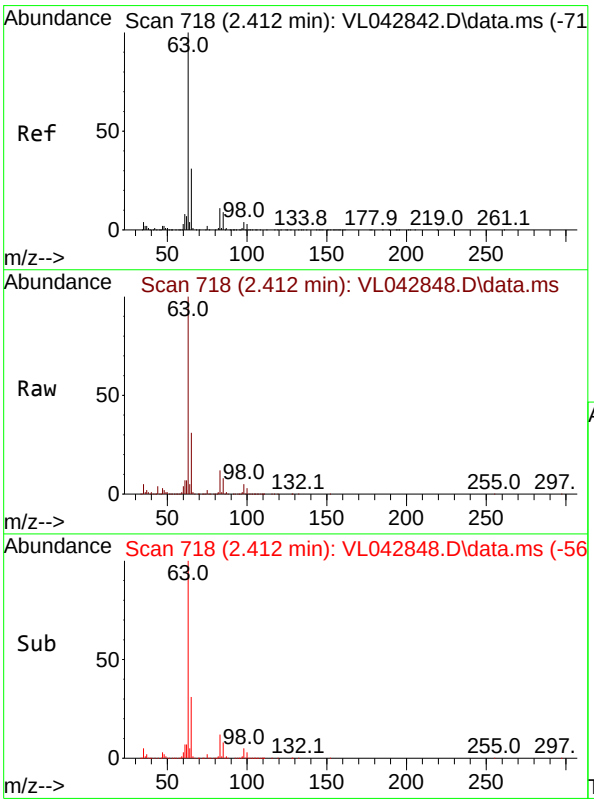
#23
Vinyl Acetate
Concen: 14.557 ppbv
RT: 2.467 min Scan# 7
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 43 Resp: 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

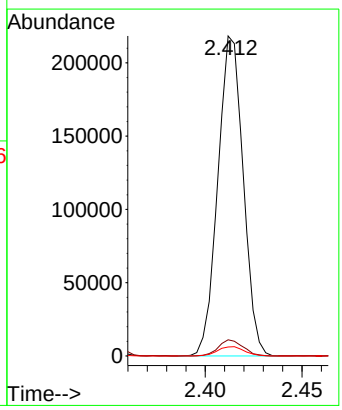


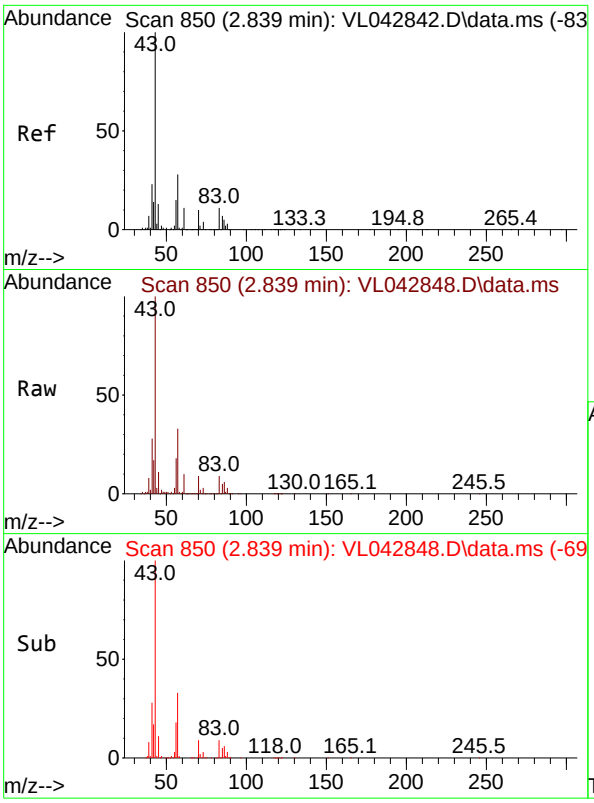


#24
1,1-Dichloroethane
Concen: 13.944 ppbv
RT: 2.412 min Scan# 718
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

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



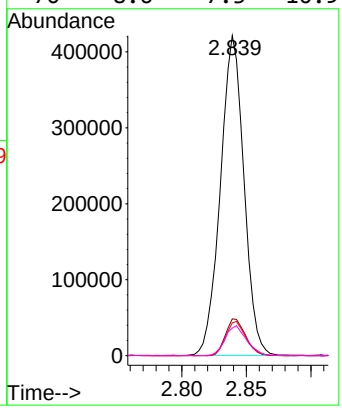


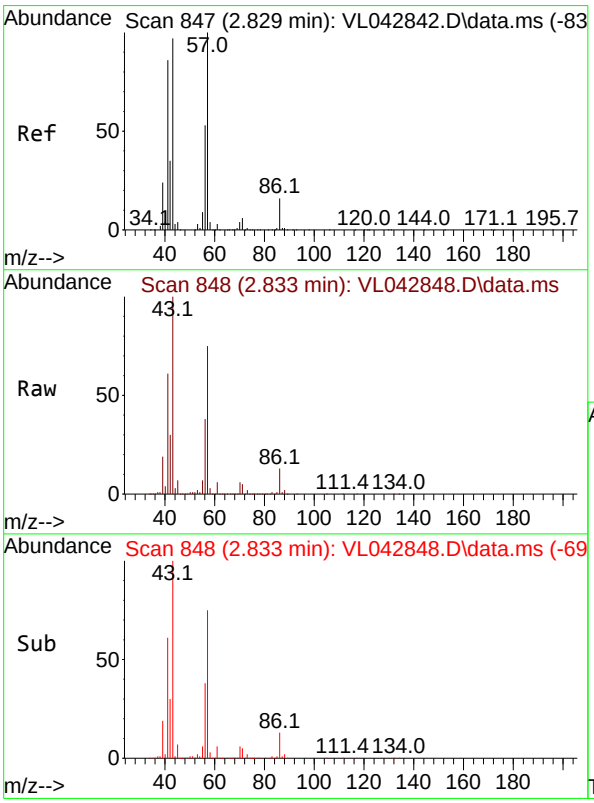
#25
Ethyl Acetate
Concen: 13.653 ppbv
RT: 2.839 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

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

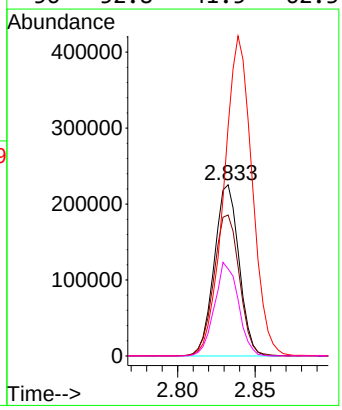


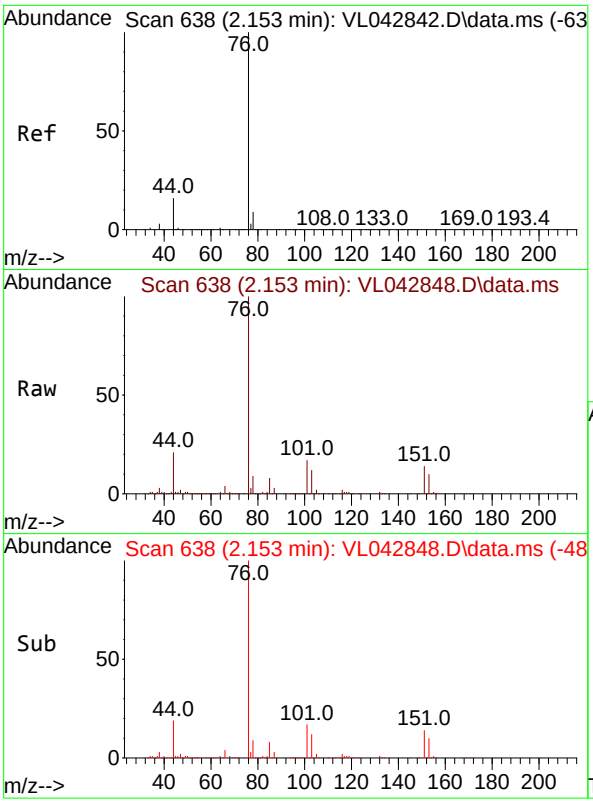


#26
Hexane
Concen: 13.869 ppbv
RT: 2.833 min Scan# 848
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

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



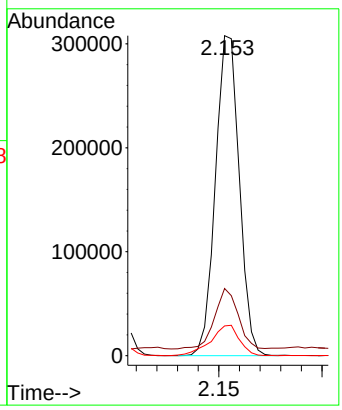


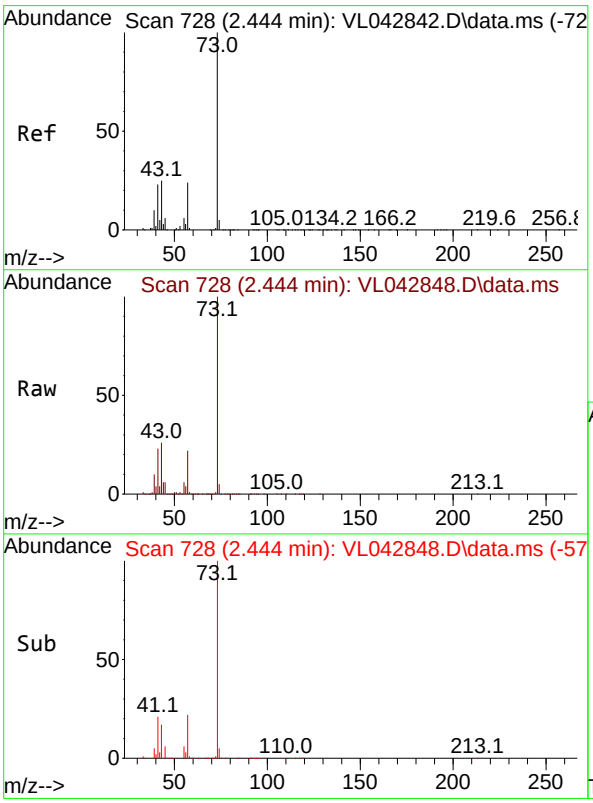
#27
Carbon Disulfide
Concen: 14.062 ppbv
RT: 2.153 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

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

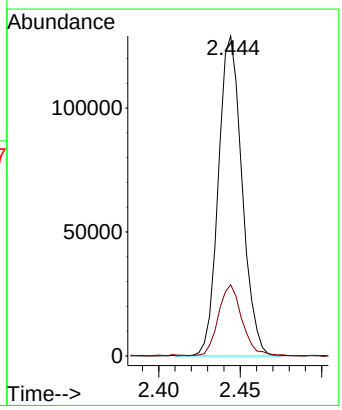


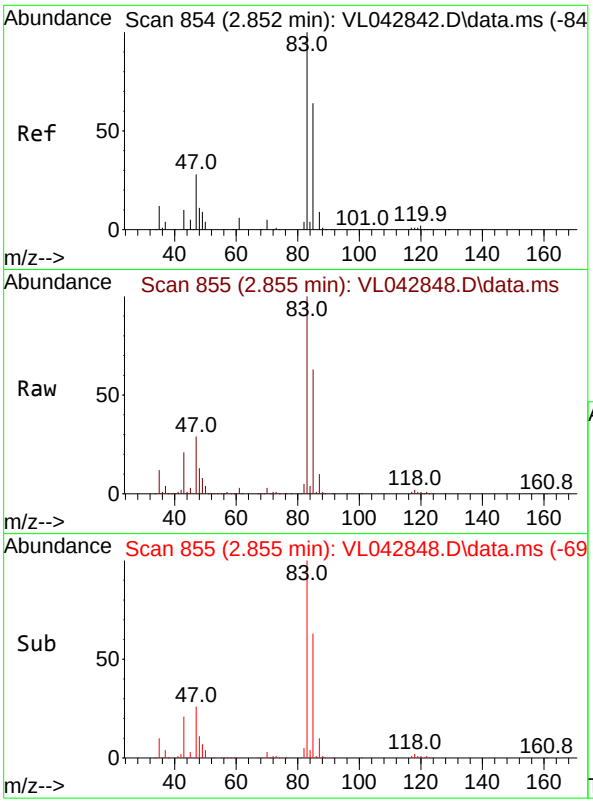


#28
Methyl tert-Butyl Ether
Concen: 14.131 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 73 Resp: 129978

Ion	Ratio	Lower	Upper
73	100		
57	22.5	21.6	32.4



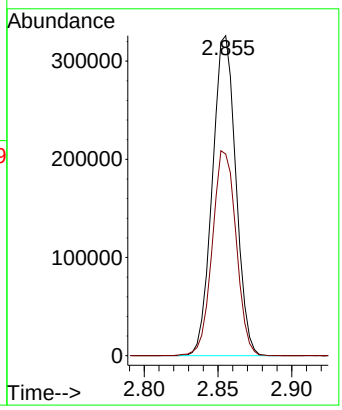


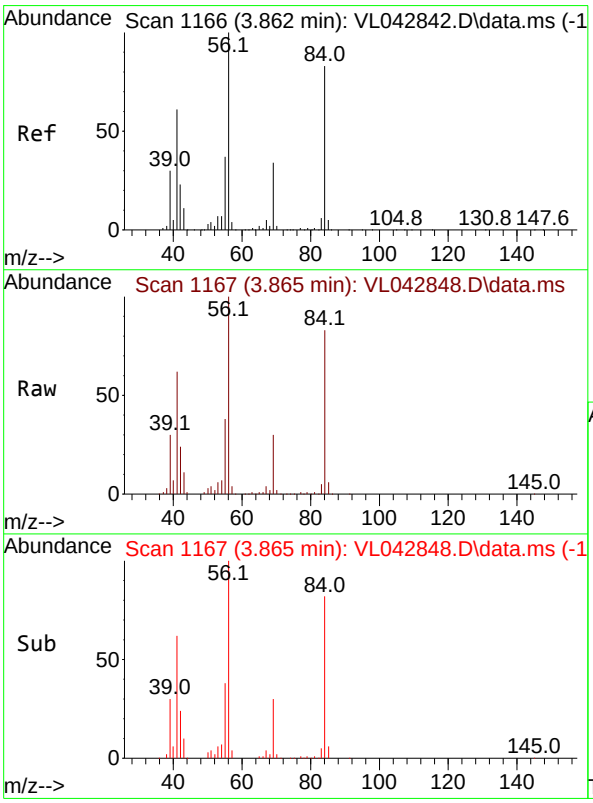
#29
Chloroform
Concen: 14.003 ppbv
RT: 2.855 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 83 Resp: 360661

Ion	Ratio	Lower	Upper
83	100		
85	63.0	51.1	76.7

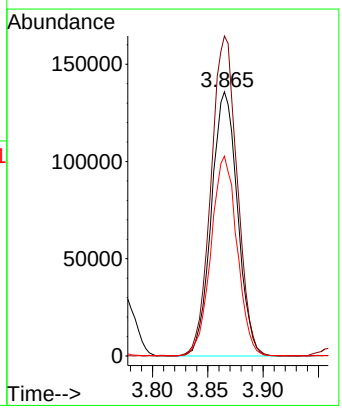


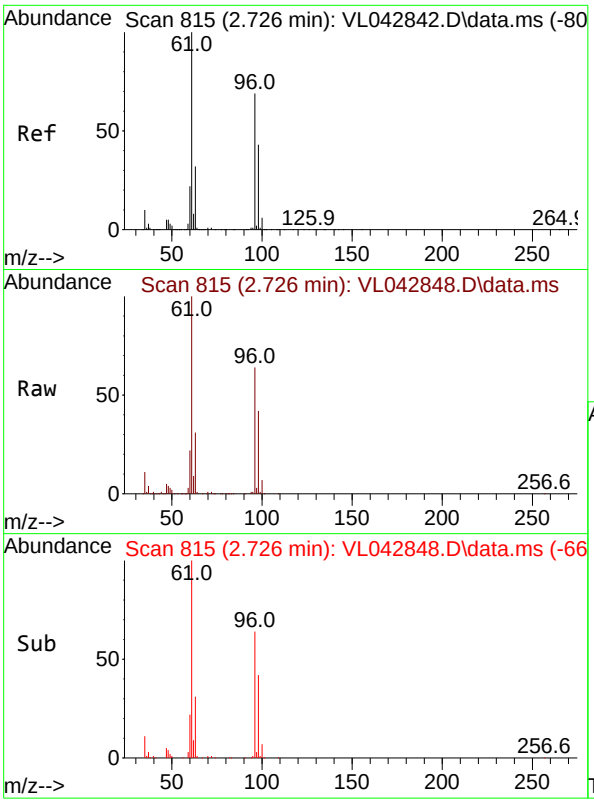


#30
Cyclohexane
Concen: 14.088 ppbv
RT: 3.865 min Scan# 1167
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

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



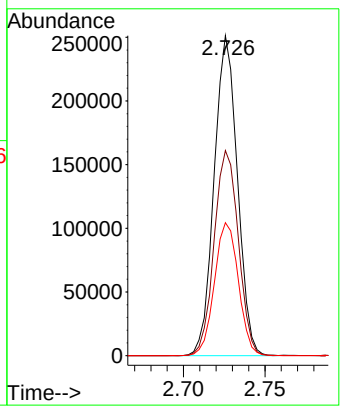


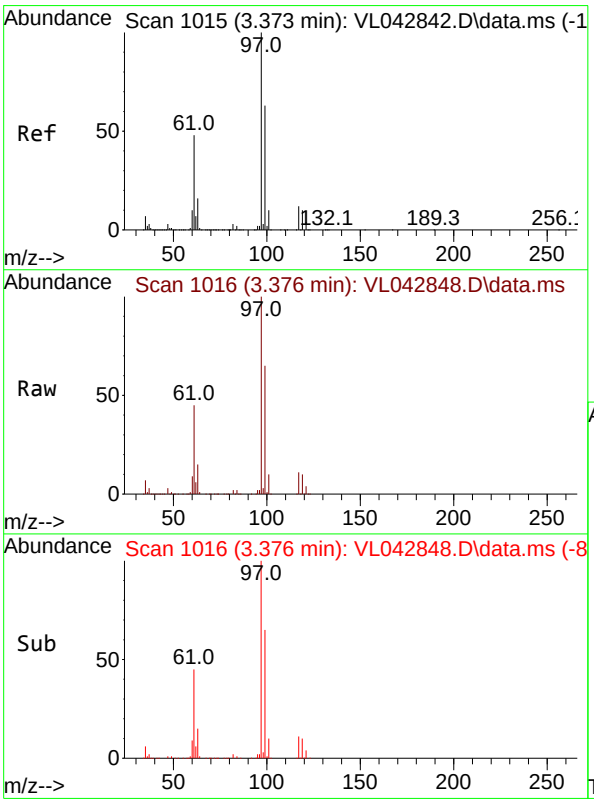
#31
cis-1,2-Dichloroethene
Concen: 13.821 ppbv
RT: 2.726 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

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

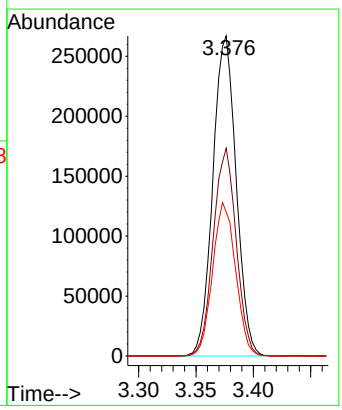


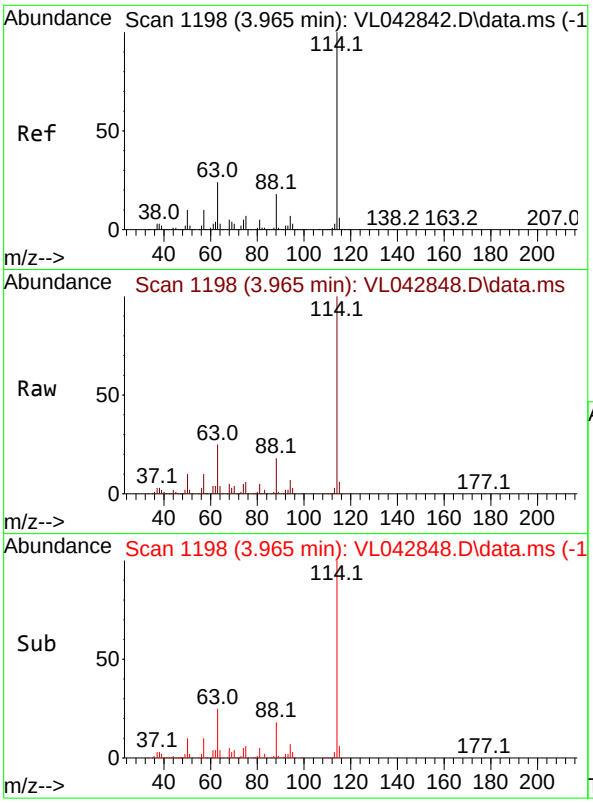


#32
1,1,1-Trichloroethane
Concen: 13.851 ppbv
RT: 3.376 min Scan# 1016
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

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



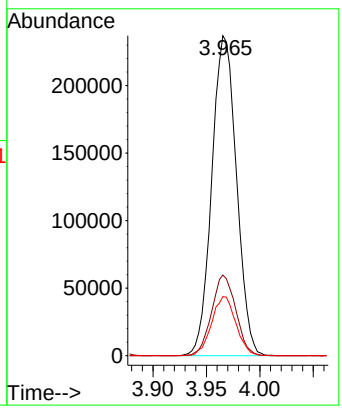


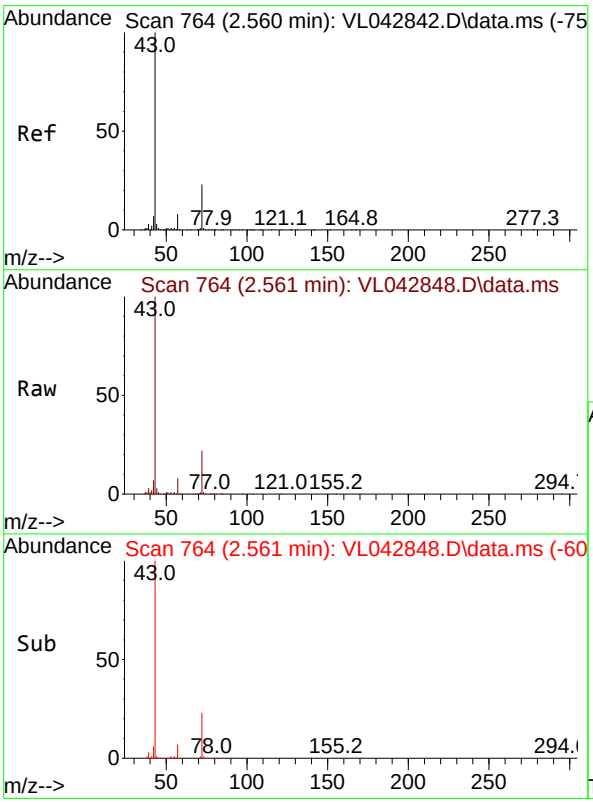
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

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

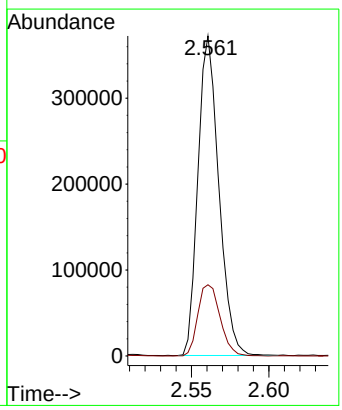


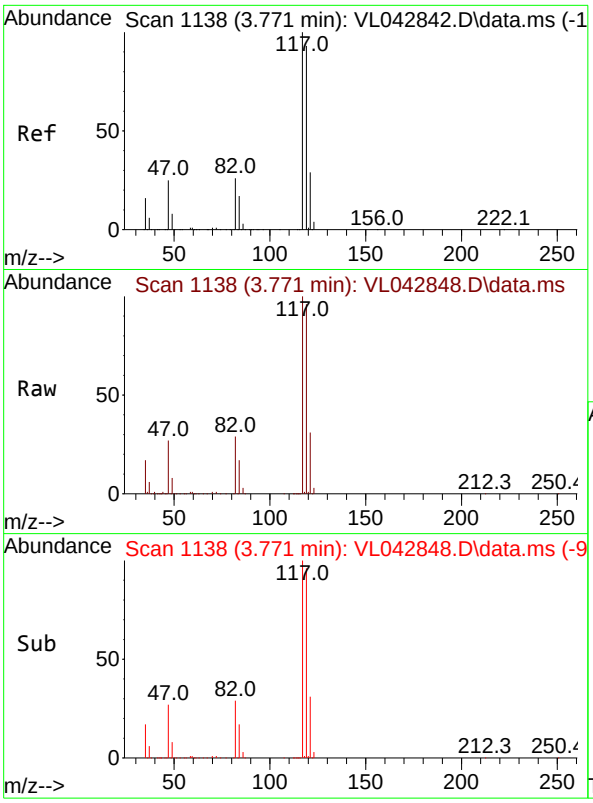


#34
2-Butanone
Concen: 13.563 ppbv
RT: 2.561 min Scan# 764
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 43 Resp: 348815

Ion	Ratio	Lower	Upper
43	100		
72	23.8	18.6	28.0



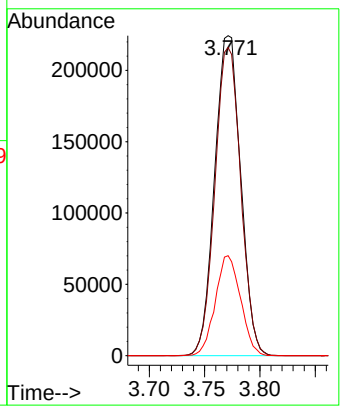


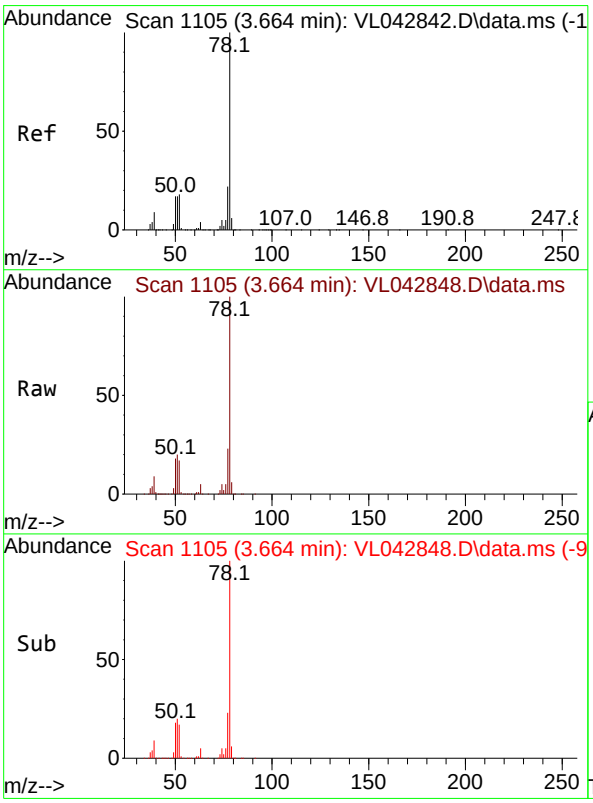
#35
Carbon Tetrachloride
Concen: 13.990 ppbv
RT: 3.771 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

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

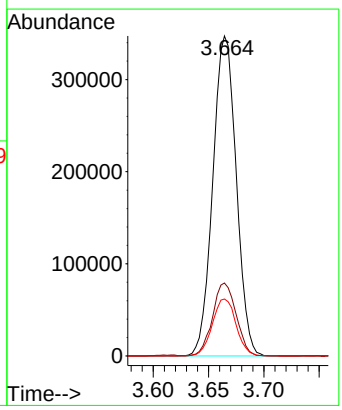


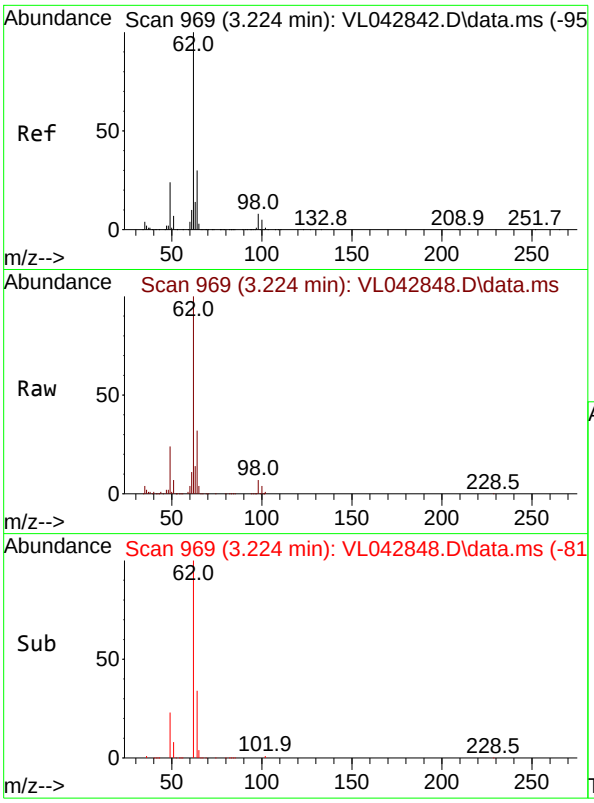


#36
Benzene
Concen: 14.033 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

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



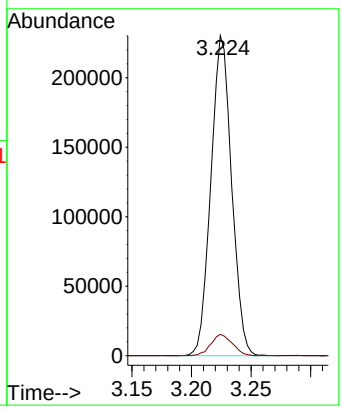


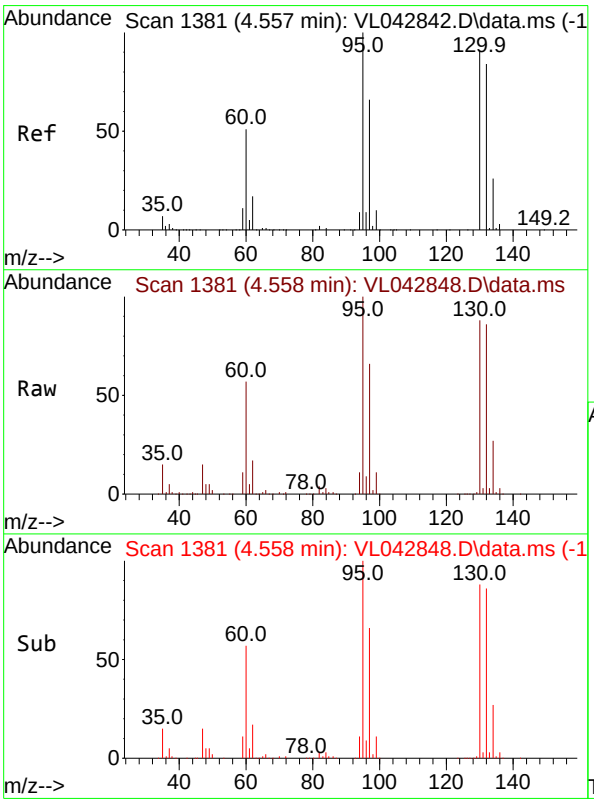
#37
1,2-Dichloroethane
Concen: 14.639 ppbv
RT: 3.224 min Scan# 9
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 62 Resp: 278934

Ion	Ratio	Lower	Upper
62	100		
98	6.9	5.9	8.9

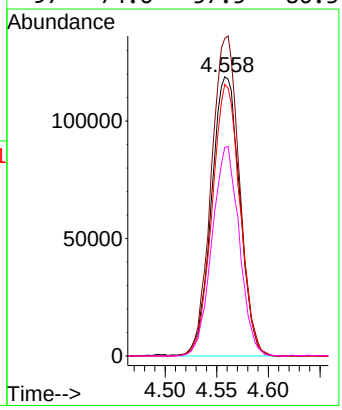


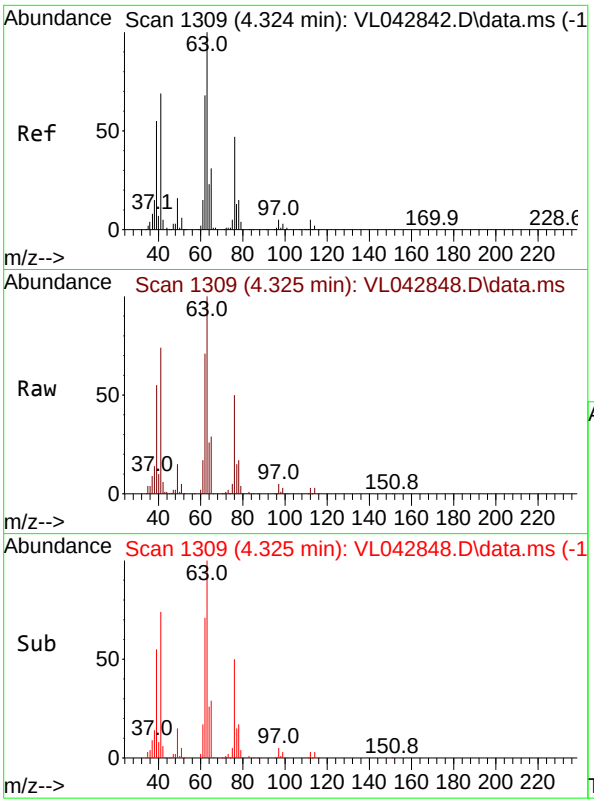


#38
Trichloroethene
Concen: 13.634 ppbv
RT: 4.558 min Scan# 1381
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

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



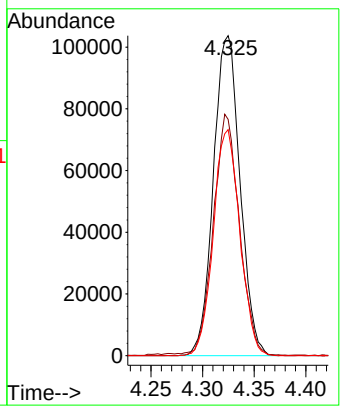


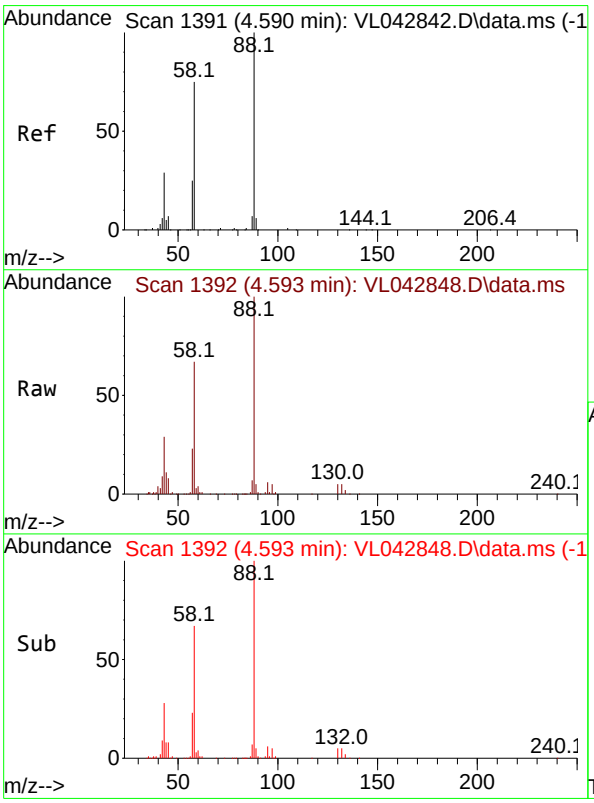
#39
1,2-Dichloropropane
Concen: 13.984 ppbv
RT: 4.325 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

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

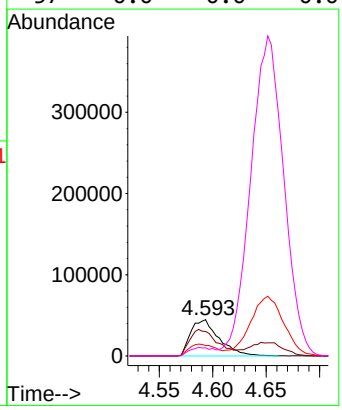


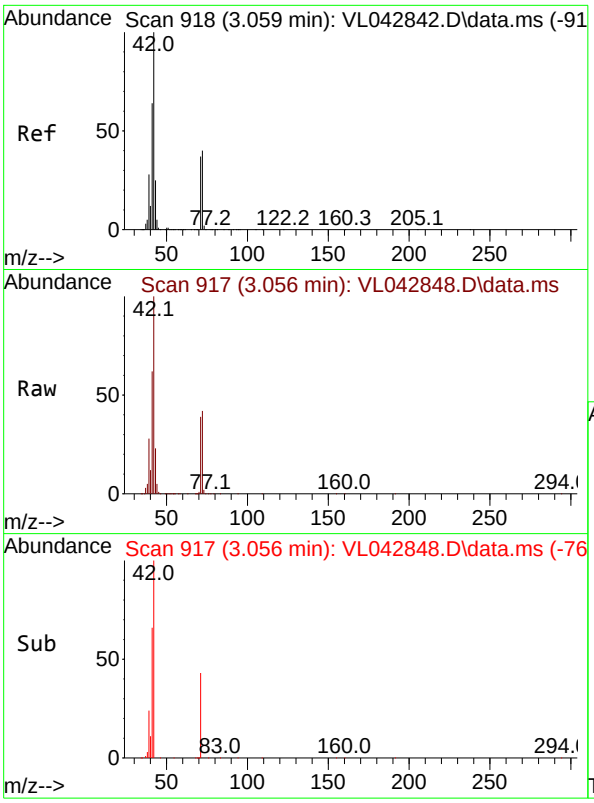


#40
1,4-Dioxane
Concen: 13.212 ppbv
RT: 4.593 min Scan# 1392
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

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



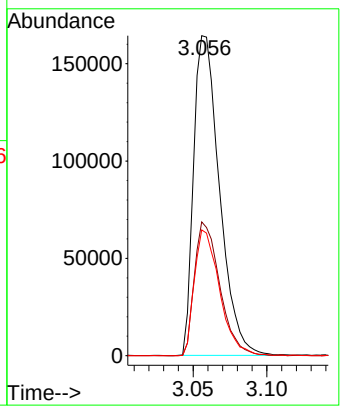


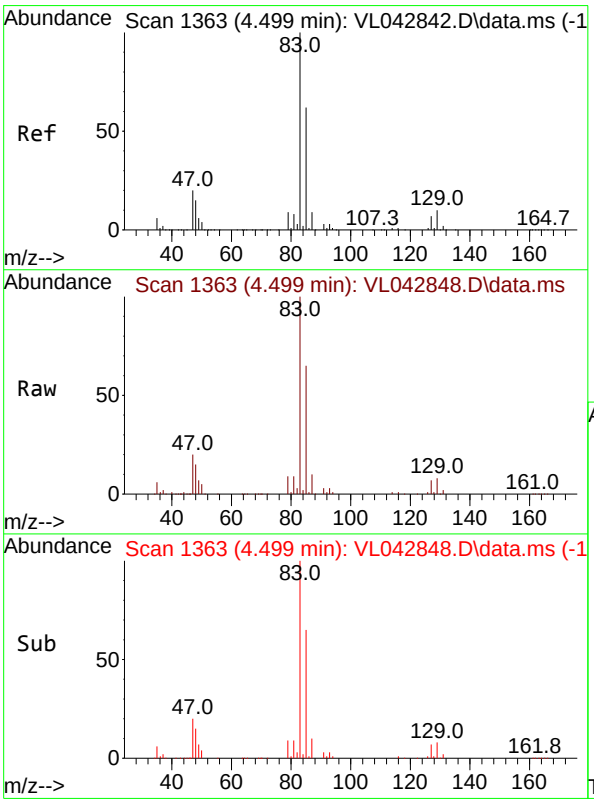
#41
Tetrahydrofuran
Concen: 14.001 ppbv
RT: 3.056 min Scan# 9
Delta R.T. -0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 42 Resp: 200751

Ion	Ratio	Lower	Upper
42	100		
72	41.0	32.6	48.8
71	38.4	30.0	45.0

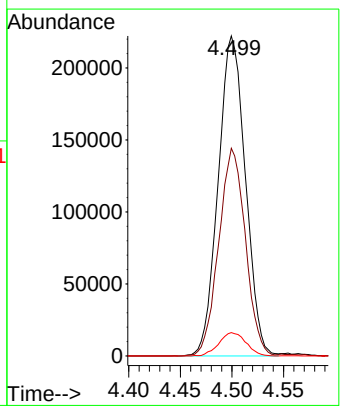


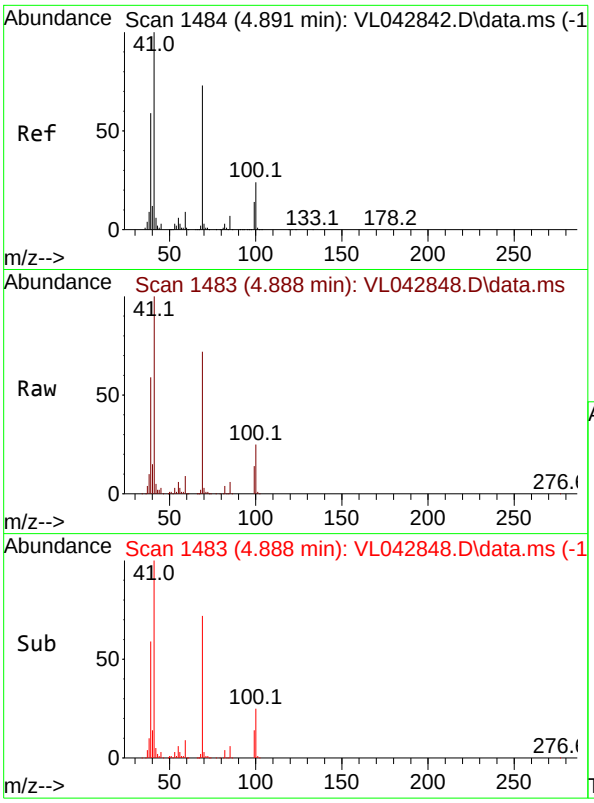


#42
Bromodichloromethane
Concen: 14.372 ppbv
RT: 4.499 min Scan# 1363
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

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



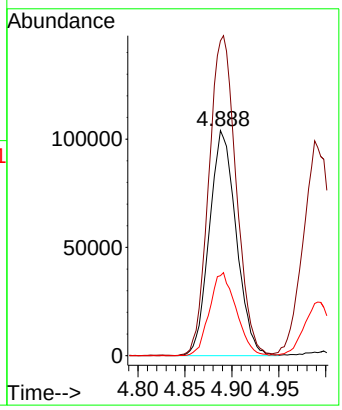


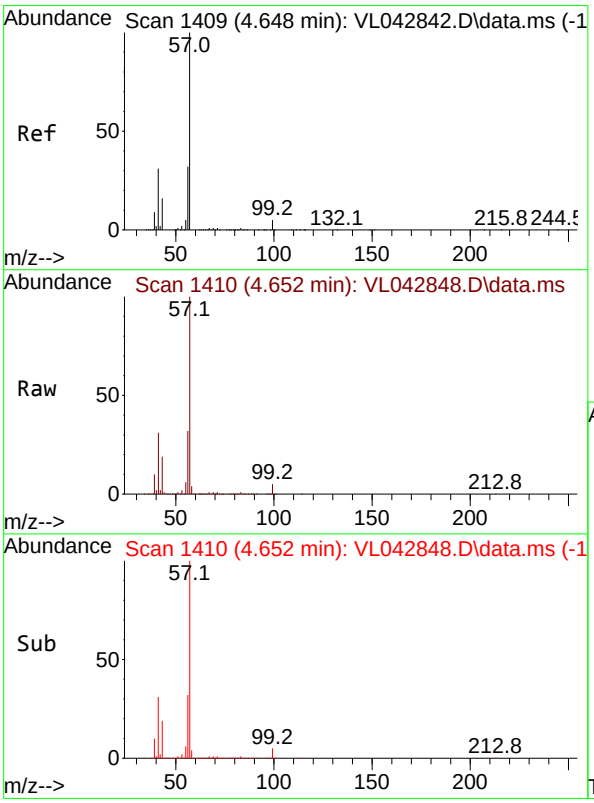
#43
Methyl Methacrylate
Concen: 13.808 ppbv
RT: 4.888 min Scan# 14
Delta R.T. -0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

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

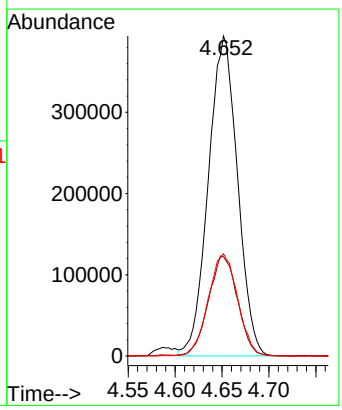


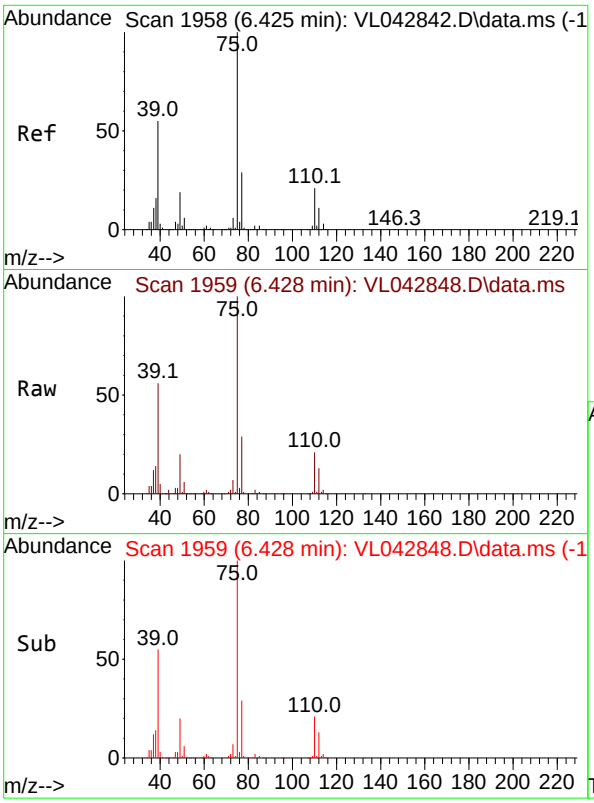


#44
2,2,4-Trimethylpentane
Concen: 13.895 ppbv
RT: 4.652 min Scan# 1410
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

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



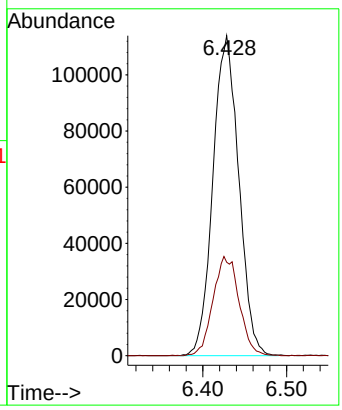


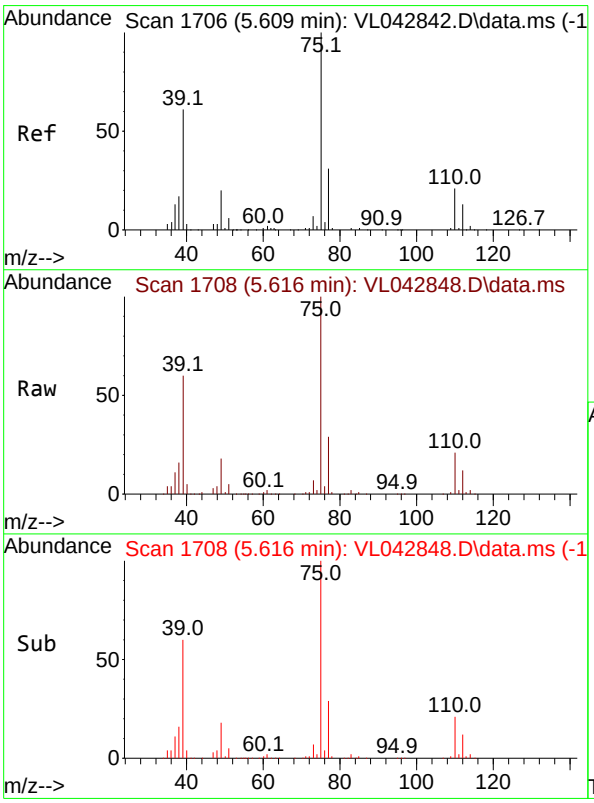
#45
t-1,3-Dichloropropene
Concen: 14.387 ppbv
RT: 6.428 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 75 Resp: 244117

Ion	Ratio	Lower	Upper
75	100		
77	29.2	23.8	35.6

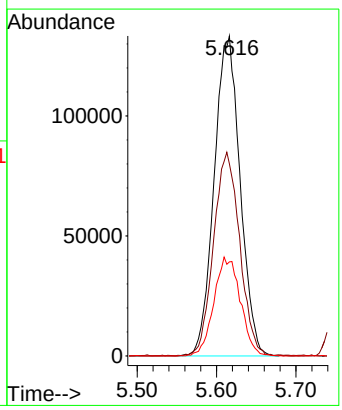


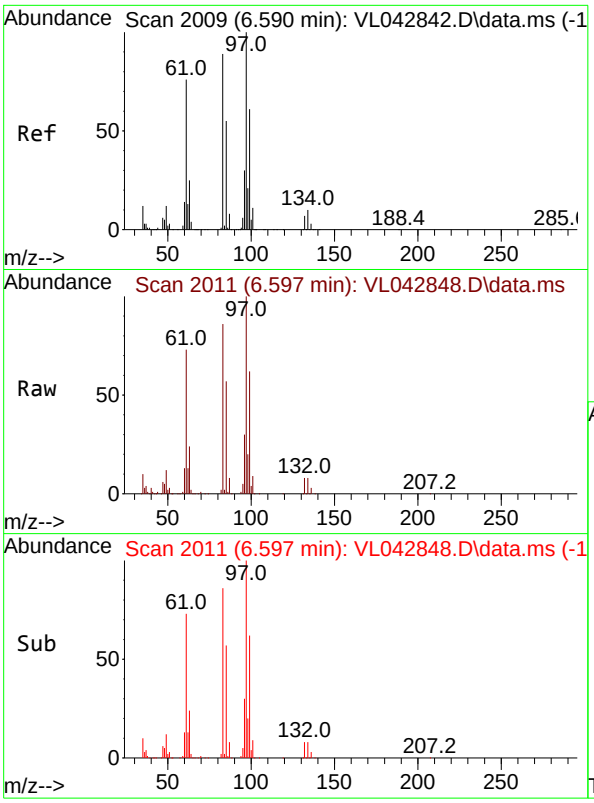


#46
cis-1,3-Dichloropropene
Concen: 14.191 ppbv
RT: 5.616 min Scan# 1708
Delta R.T. 0.007 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

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



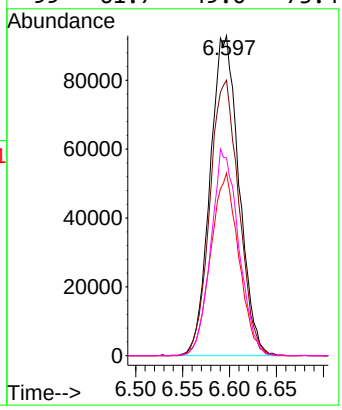


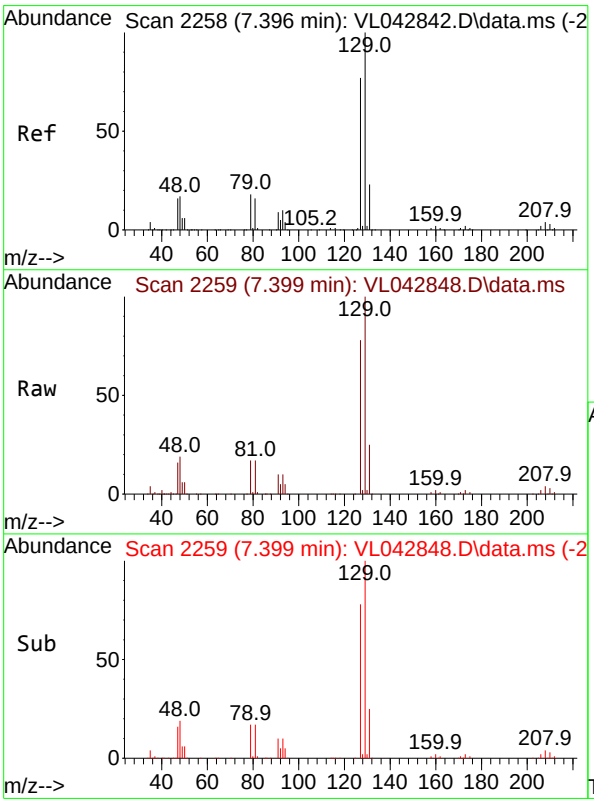
#47
1,1,2-Trichloroethane
Concen: 14.118 ppbv
RT: 6.597 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

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

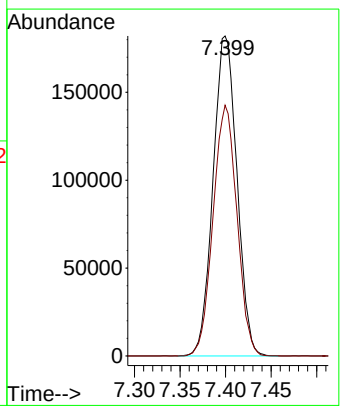


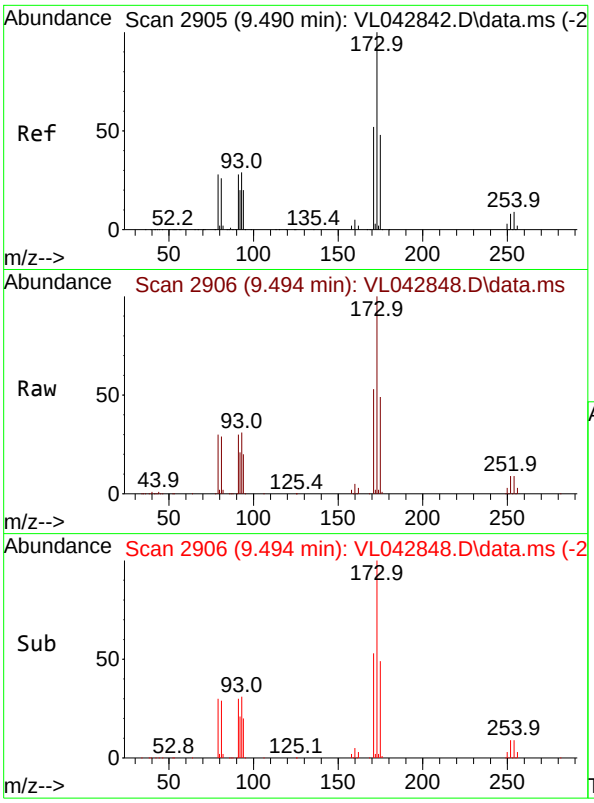


#48
Dibromochloromethane
Concen: 14.535 ppbv
RT: 7.399 min Scan# 2259
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion:129 Resp: 331947

Ion	Ratio	Lower	Upper
129	100		
127	78.4	39.4	118.2



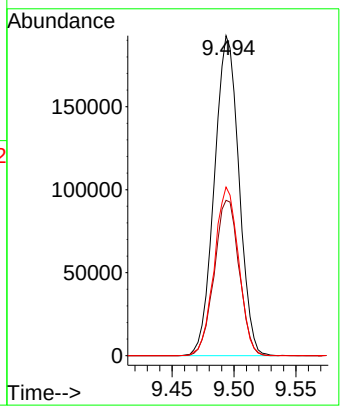


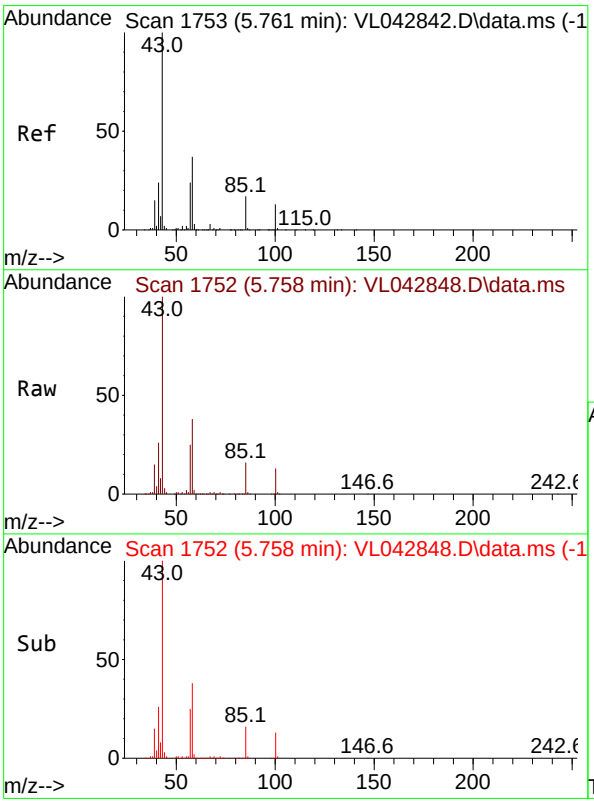
#49
Bromoform
Concen: 14.162 ppbv
RT: 9.494 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

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

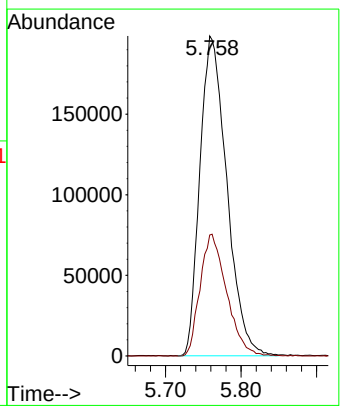


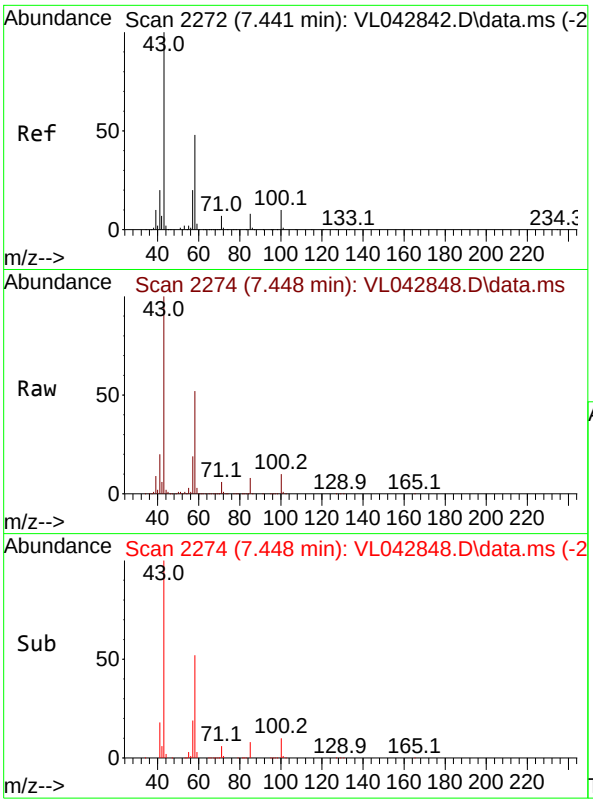


#50
4-Methyl-2-Pentanone
Concen: 14.073 ppbv
RT: 5.758 min Scan# 1752
Delta R.T. -0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 43 Resp: 490917

Ion	Ratio	Lower	Upper
43	100		
58	37.5	29.8	44.8



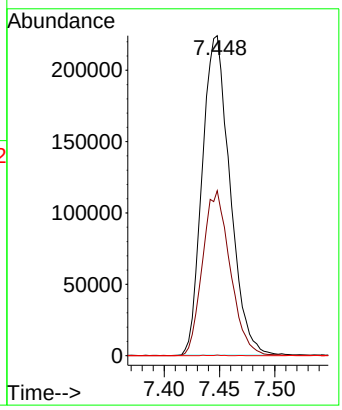


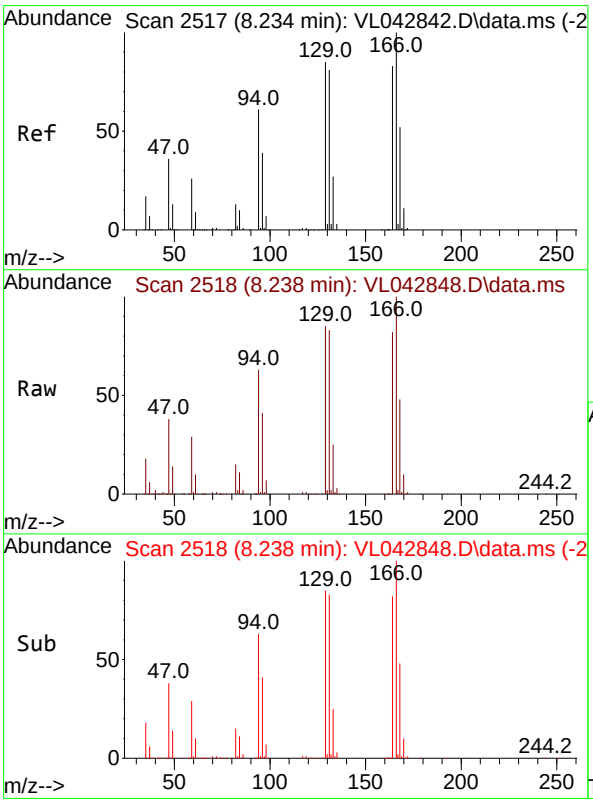
#51
2-Hexanone
Concen: 14.255 ppbv
RT: 7.448 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

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

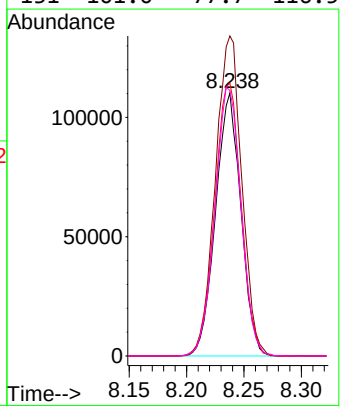


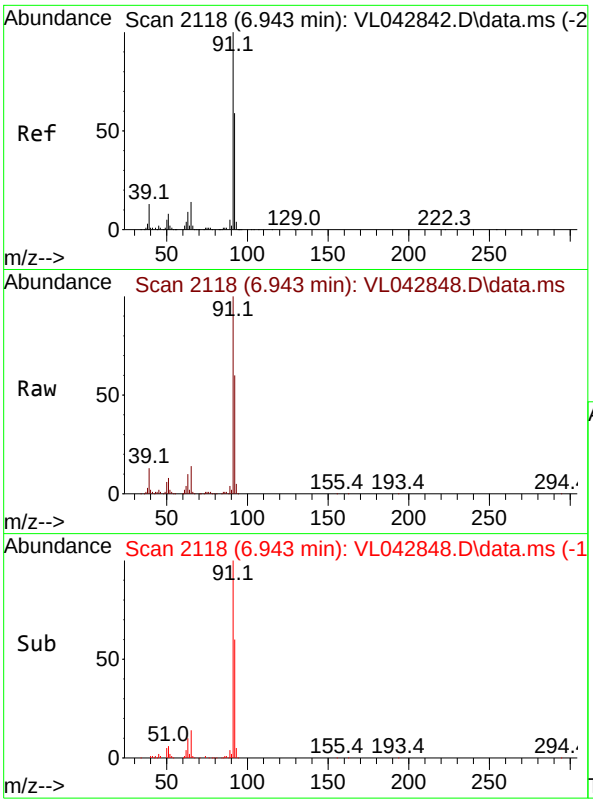


#52
Tetrachloroethene
Concen: 12.772 ppbv
RT: 8.238 min Scan# 2518
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

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



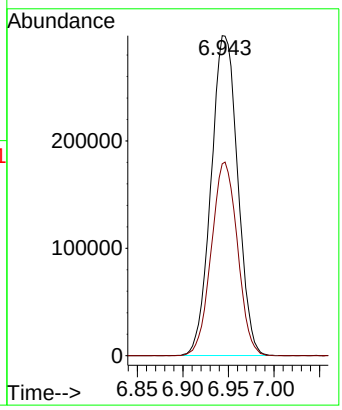


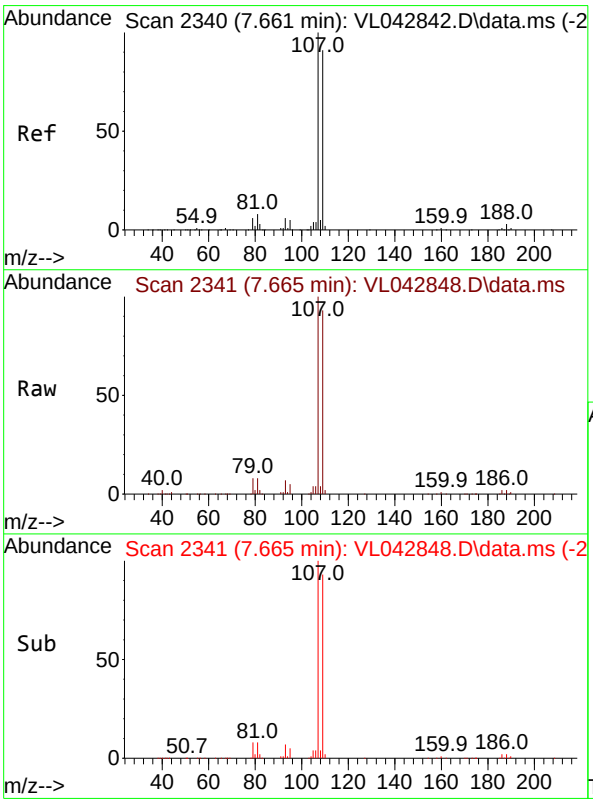
#53
Toluene
Concen: 13.961 ppbv
RT: 6.943 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 91 Resp: 605941

Ion	Ratio	Lower	Upper
91	100		
92	59.4	47.8	71.6

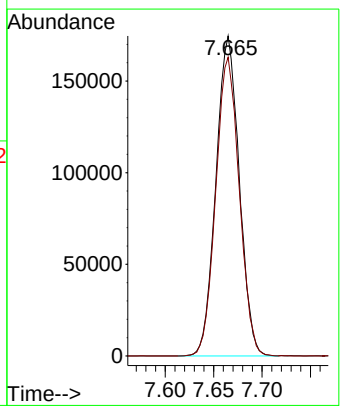


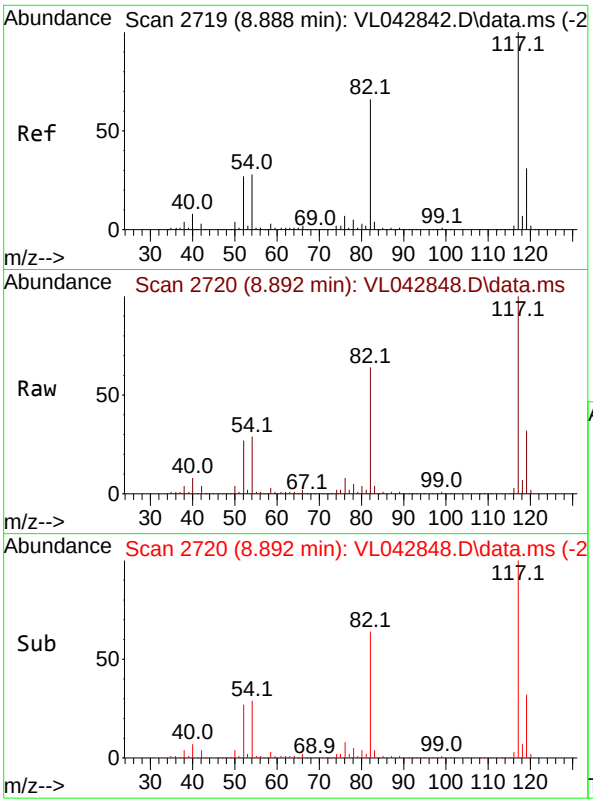


#54
1,2-Dibromoethane
Concen: 14.173 ppbv
RT: 7.665 min Scan# 2341
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion:107 Resp: 292327

Ion	Ratio	Lower	Upper
107	100		
109	93.4	72.5	108.7



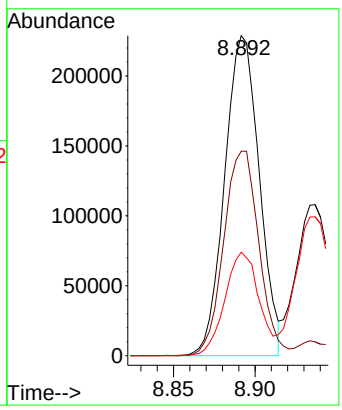


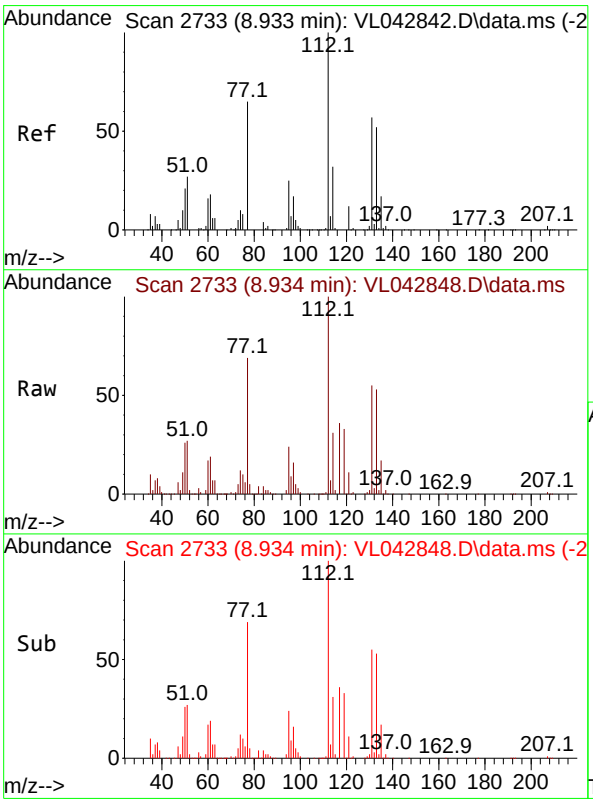
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.892 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

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

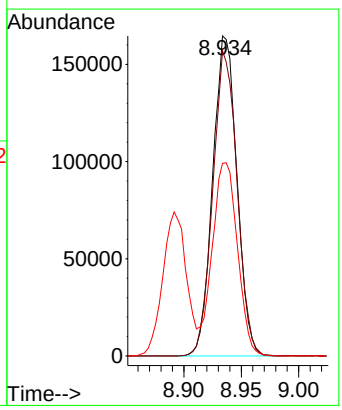


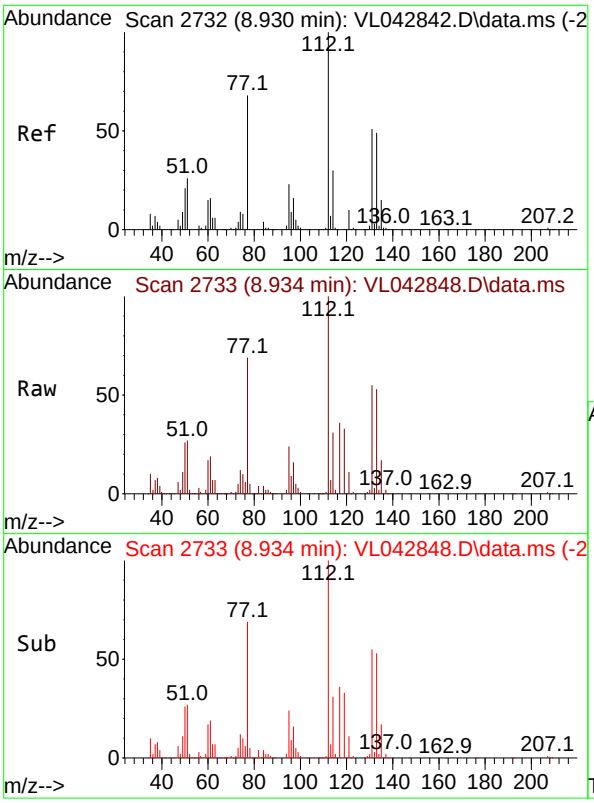


#56
1,1,1,2-Tetrachloroethane
Concen: 13.810 ppbv
RT: 8.934 min Scan# 2733
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

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



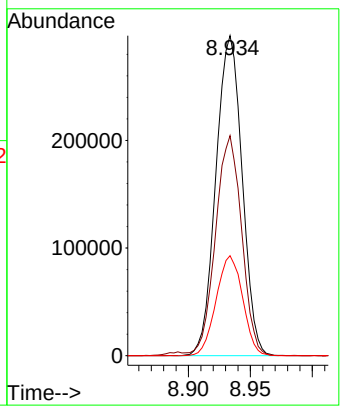


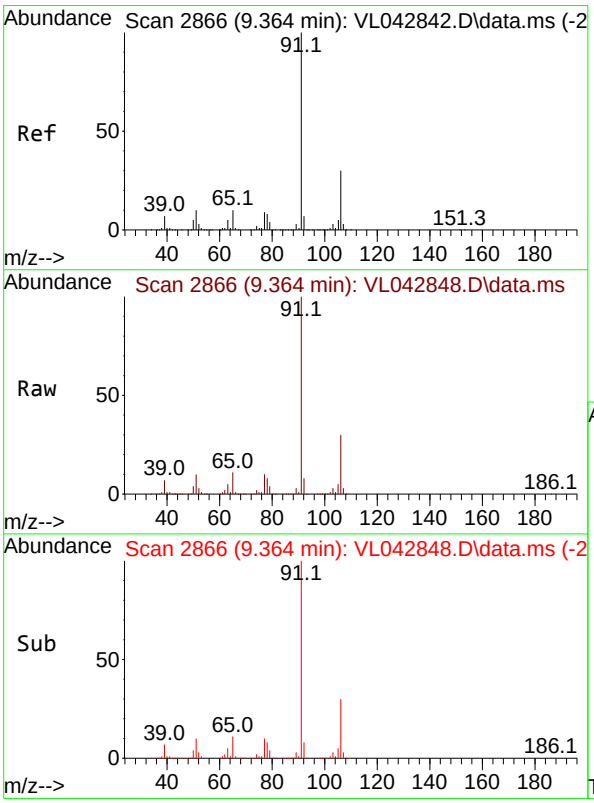
#57
Chlorobenzene
Concen: 13.668 ppbv
RT: 8.934 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

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

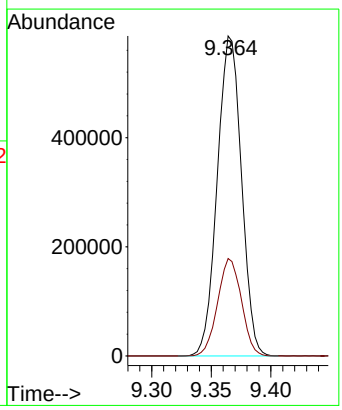


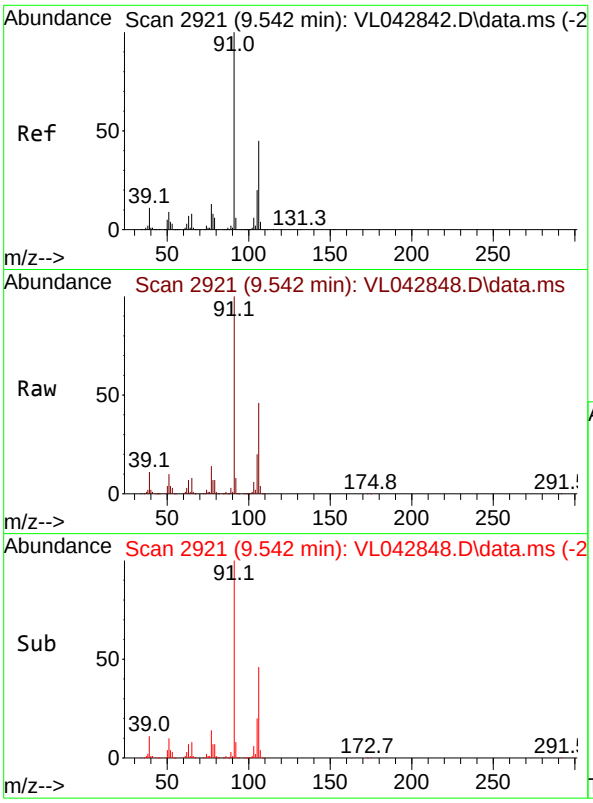


#58
Ethyl Benzene
Concen: 13.859 ppbv
RT: 9.364 min Scan# 2866
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 91 Resp: 826316

Ion	Ratio	Lower	Upper
91	100		
106	30.5	23.9	35.9



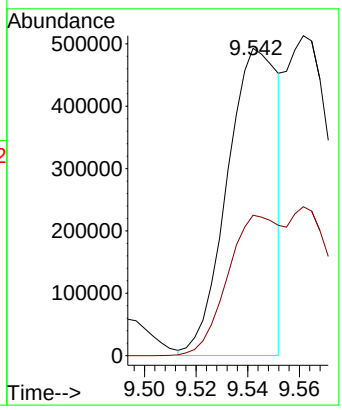


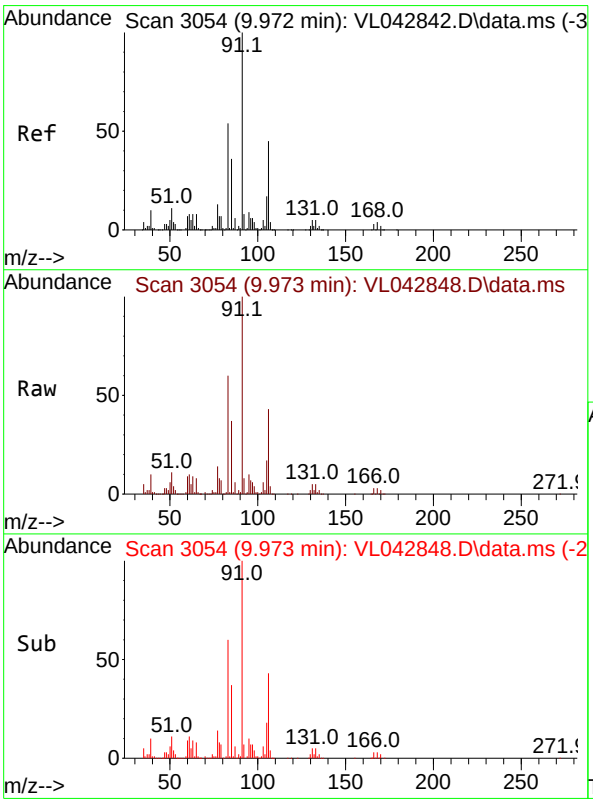
#59
m/p-Xylene
Concen: 14.262 ppbv
RT: 9.542 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 91 Resp: 667628

Ion	Ratio	Lower	Upper
91	100		
106	0.0	0.0	0.0

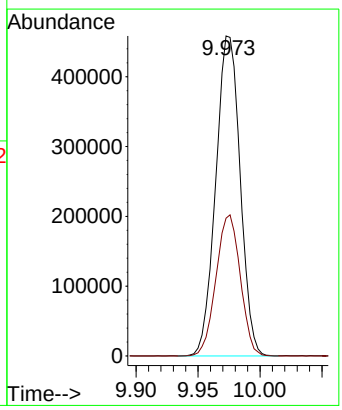


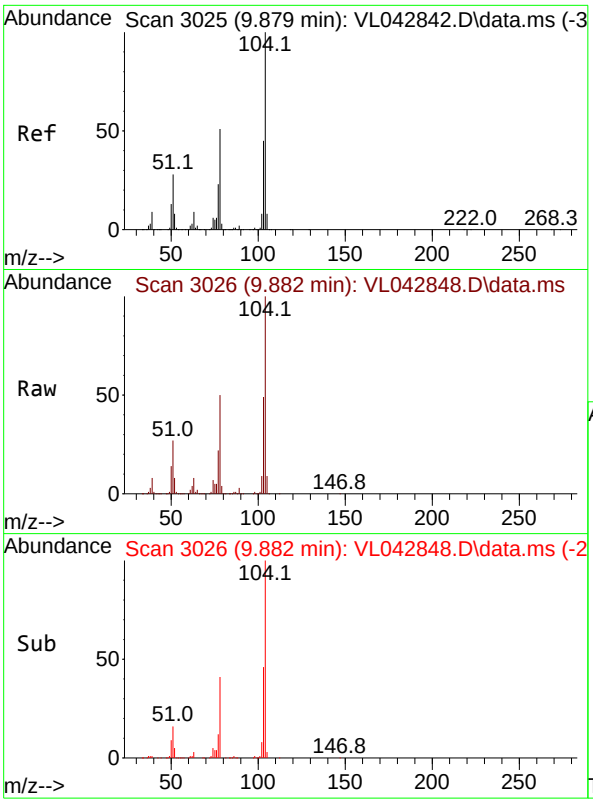


#60
o-Xylene
Concen: 13.389 ppbv
RT: 9.973 min Scan# 3054
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion: 91 Resp: 629445

Ion	Ratio	Lower	Upper
91	100		
106	43.9	21.8	65.4



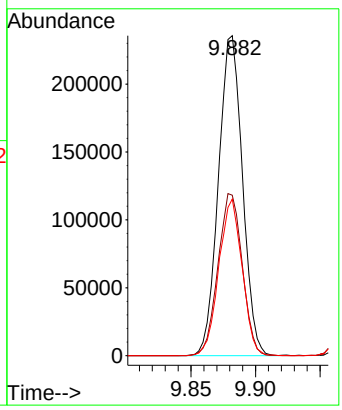


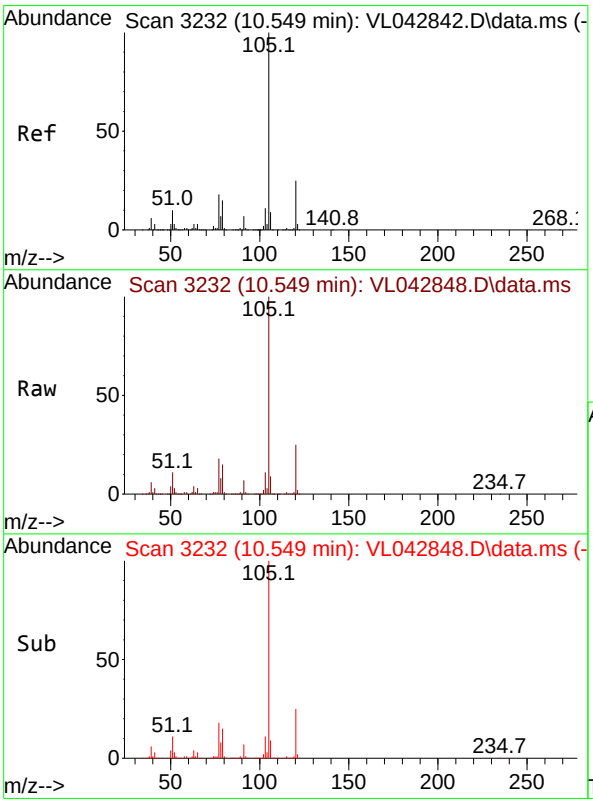
#61
Styrene
Concen: 13.827 ppbv
RT: 9.882 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

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

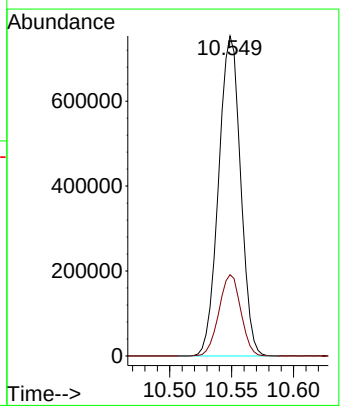


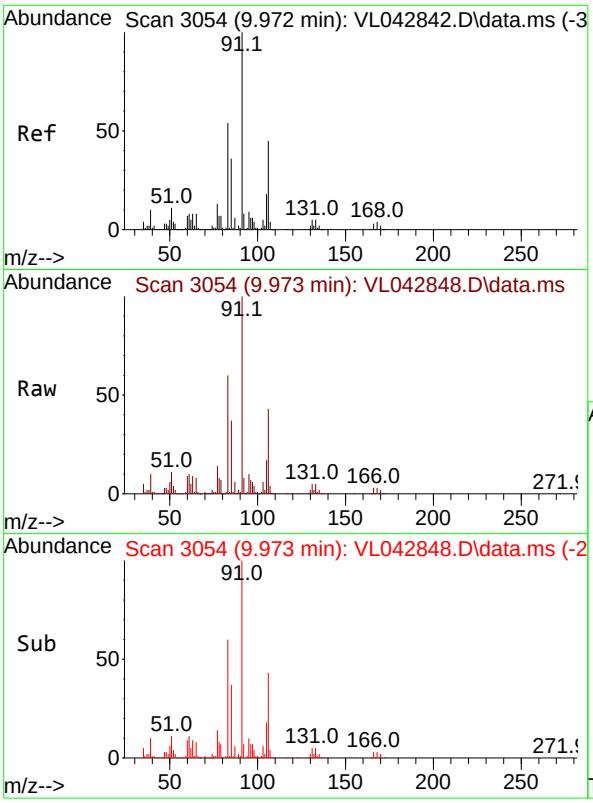


#62
Isopropylbenzene
Concen: 13.559 ppbv
RT: 10.549 min Scan# 3232
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion:105 Resp: 931574

Ion	Ratio	Lower	Upper
105	100		
120	25.2	20.6	30.8



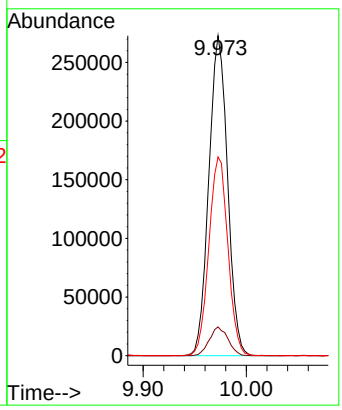


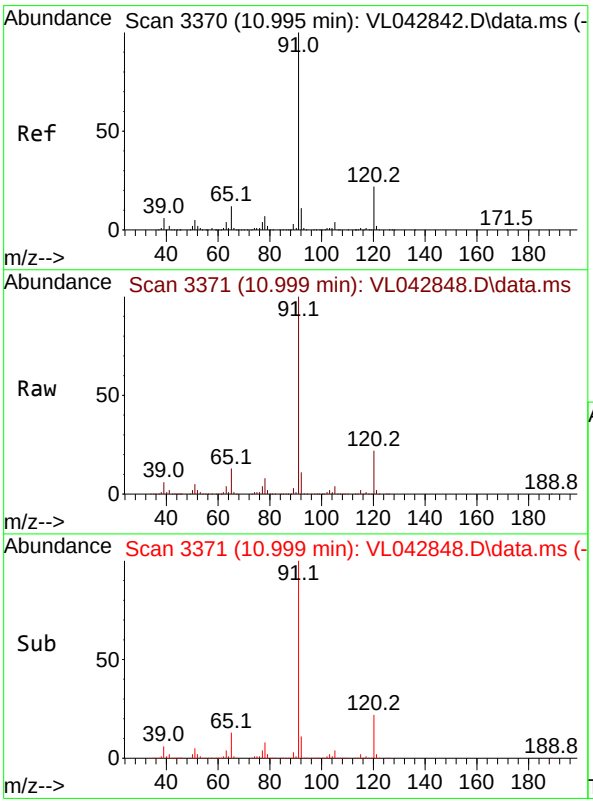
#63
1,1,2,2-Tetrachloroethane
Concen: 13.356 ppbv
RT: 9.973 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

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

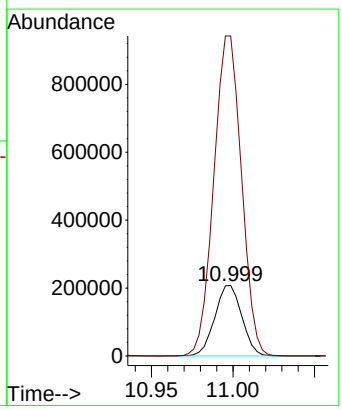


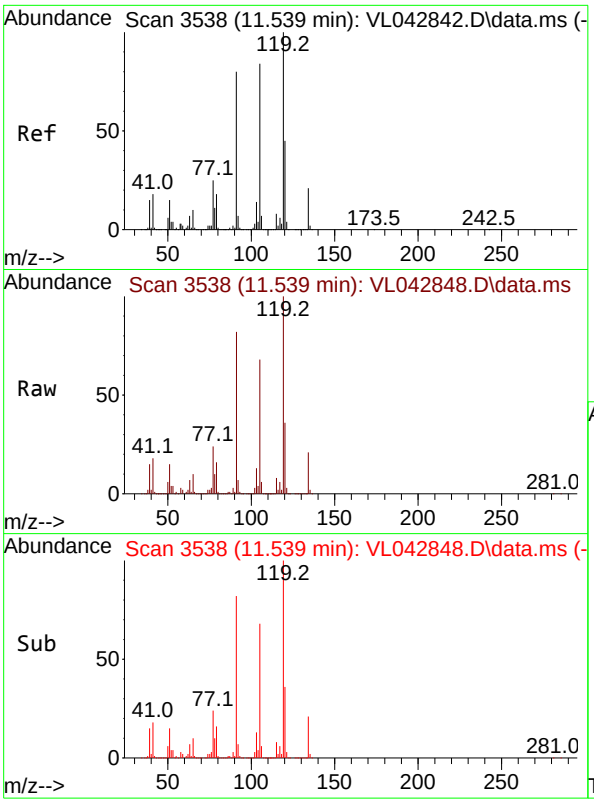


#64
n-propylbenzene
Concen: 13.646 ppbv
RT: 10.999 min Scan# 3371
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Tgt Ion:120 Resp: 239209

Ion	Ratio	Lower	Upper
120	100		
91	465.1	375.8	563.6



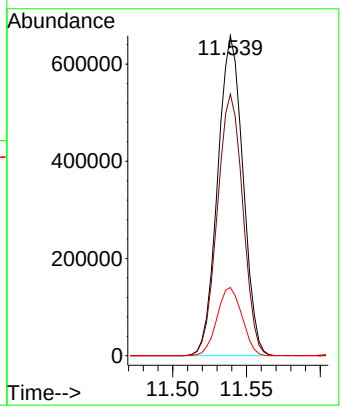


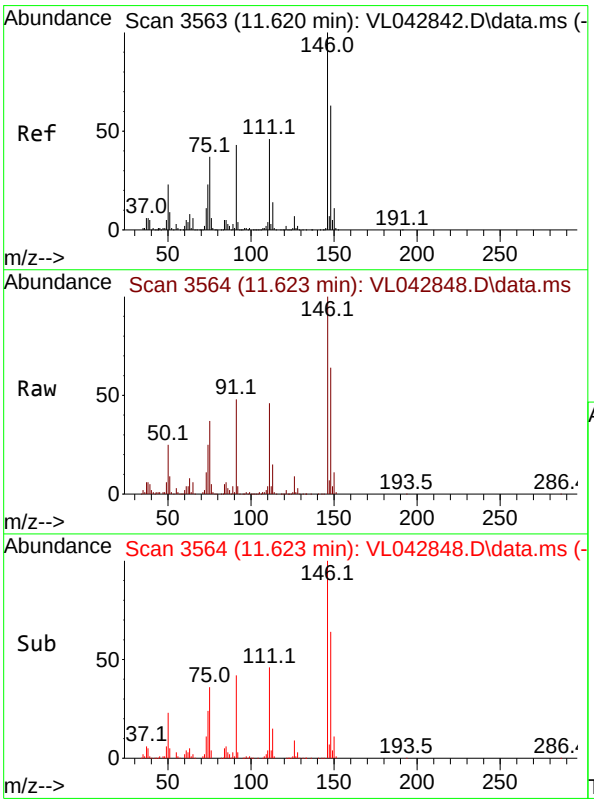
#65
tert-Butylbenzene
Concen: 12.965 ppbv
RT: 11.539 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:119 Resp: 785250

Ion	Ratio	Lower	Upper
119	100		
91	82.4	63.9	95.9
134	21.1	17.0	25.4

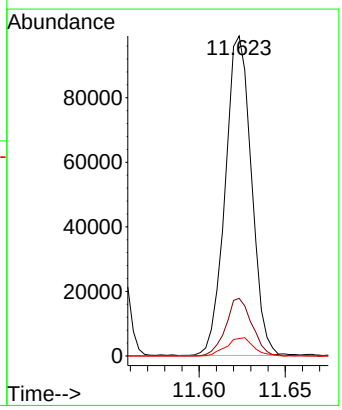


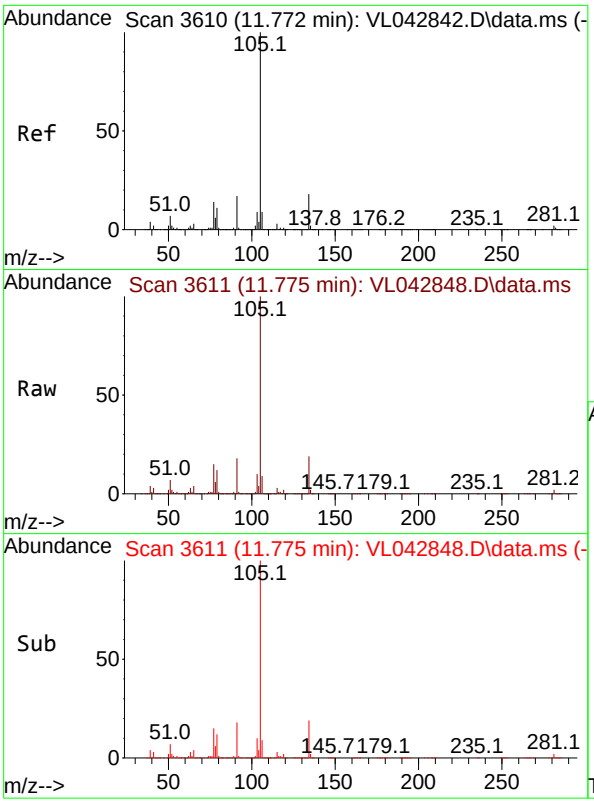


#66
Benzyl Chloride
Concen: 13.617 ppbv
RT: 11.623 min Scan# 3564
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

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



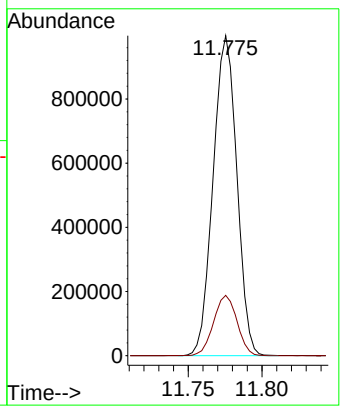


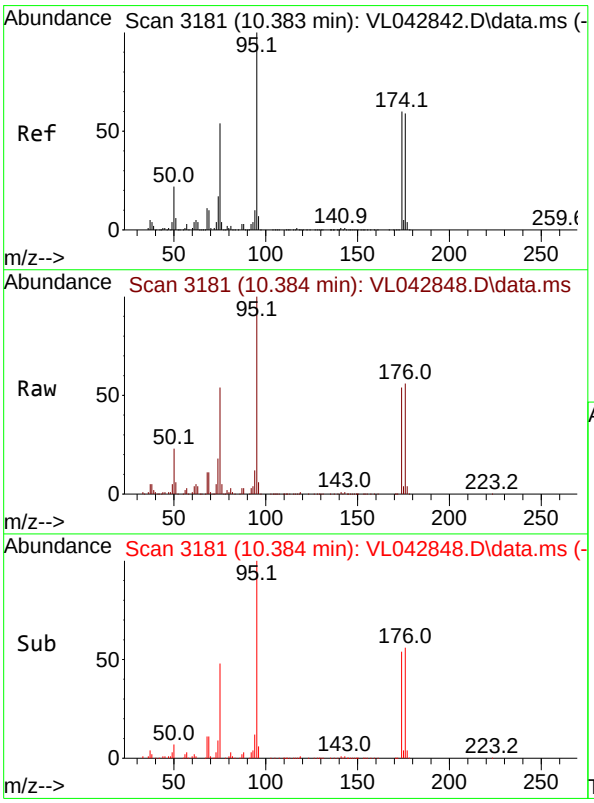
#67
sec-Butylbenzene
Concen: 13.127 ppbv
RT: 11.775 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:105 Resp: 1115979

Ion	Ratio	Lower	Upper
105	100		
134	18.7	14.9	22.3

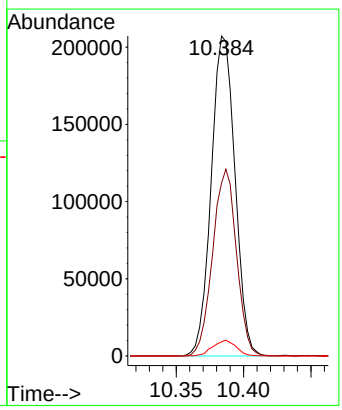


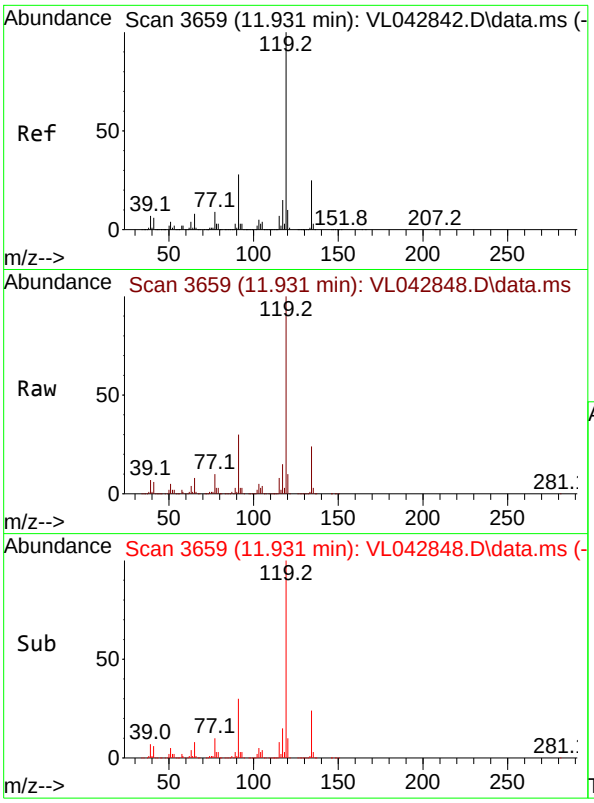


#68
1-Bromo-4-Fluorobenzene
Concen: 10.050 ppbv
RT: 10.384 min Scan# 3181
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

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



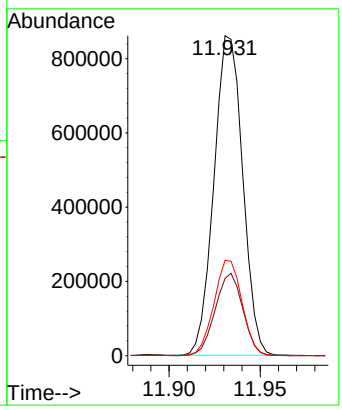


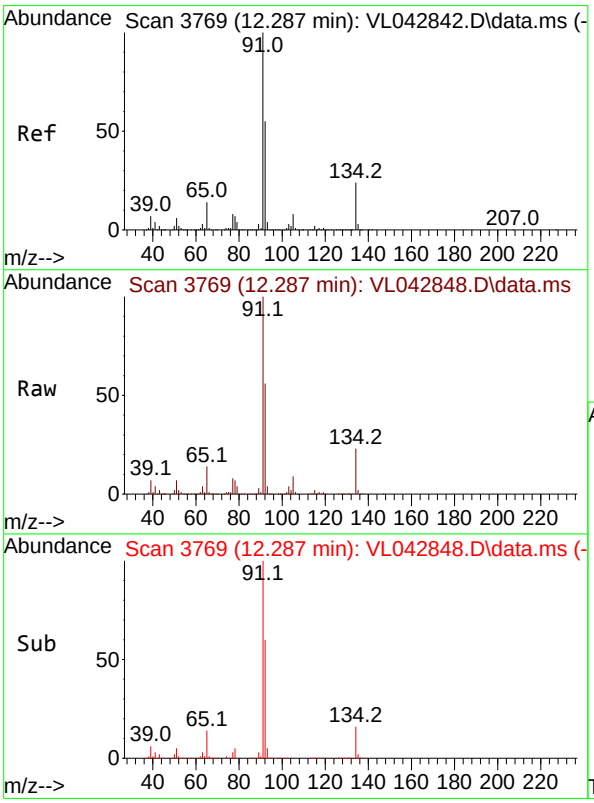
#69
p-Isopropyltoluene
Concen: 12.891 ppbv
RT: 11.931 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

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

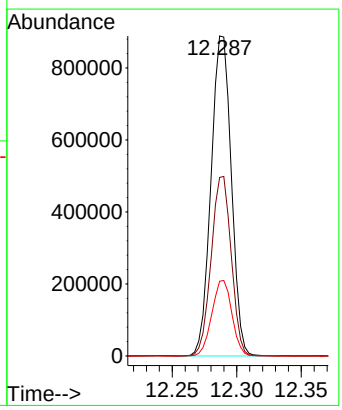


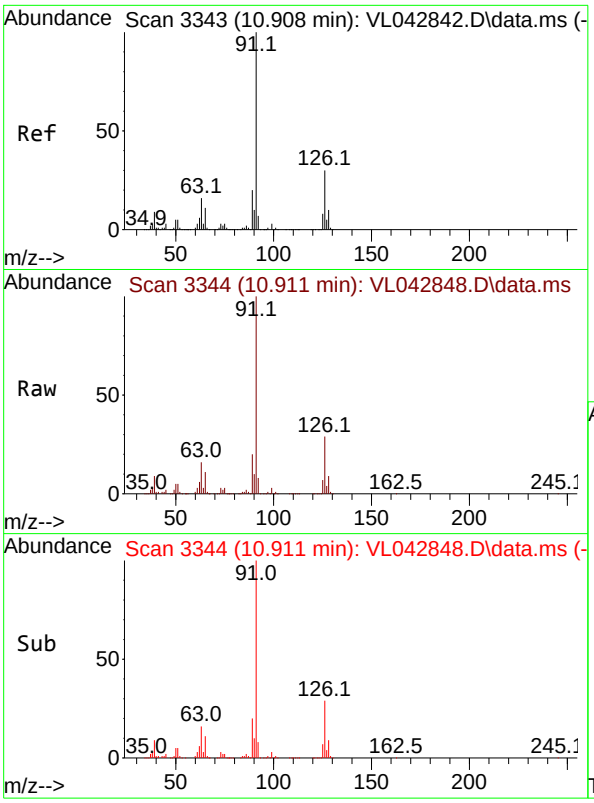


#70
n-Butylbenzene
Concen: 13.410 ppbv
RT: 12.287 min Scan# 3769
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

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



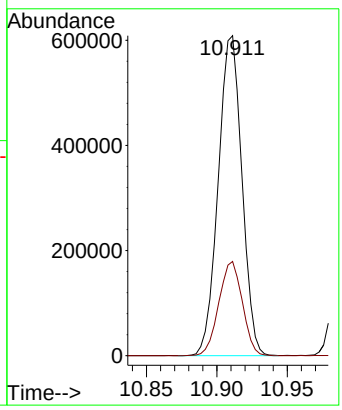


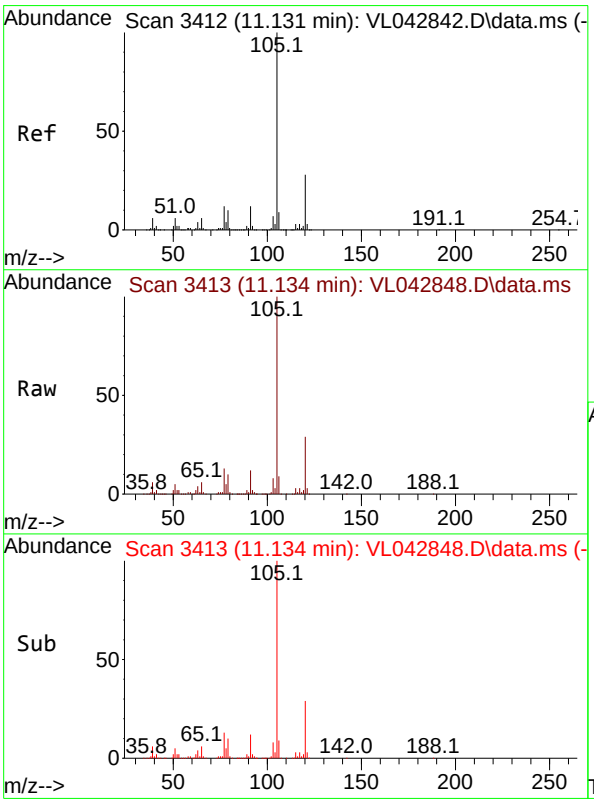
#71
2-Chlorotoluene
Concen: 13.378 ppbv
RT: 10.911 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 91 Resp: 713696

Ion	Ratio	Lower	Upper
91	100		
126	29.2	12.0	47.8

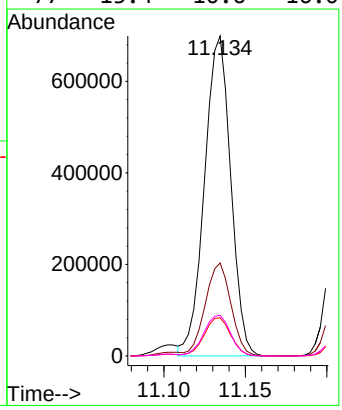


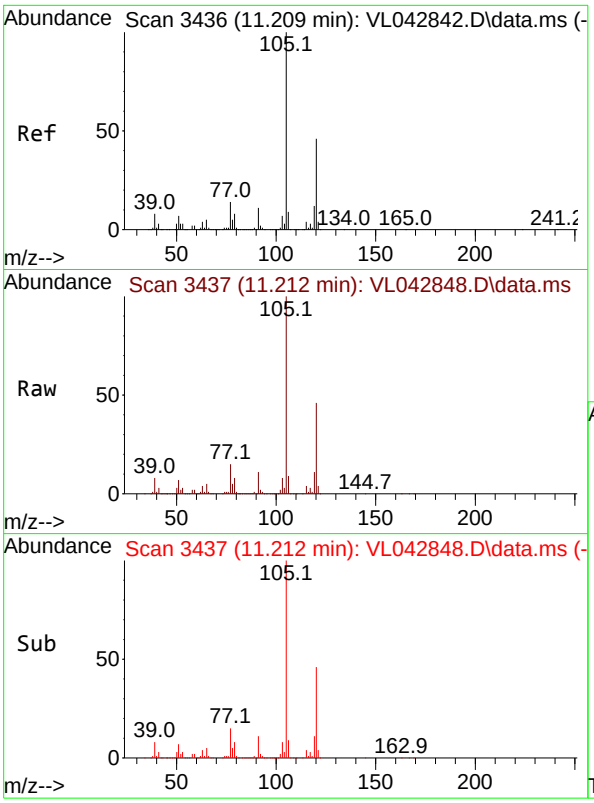


#72
4-Ethyltoluene
Concen: 13.722 ppbv
RT: 11.134 min Scan# 3413
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

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



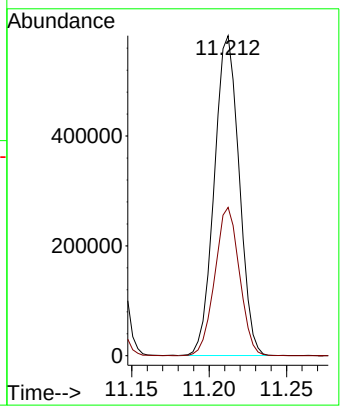


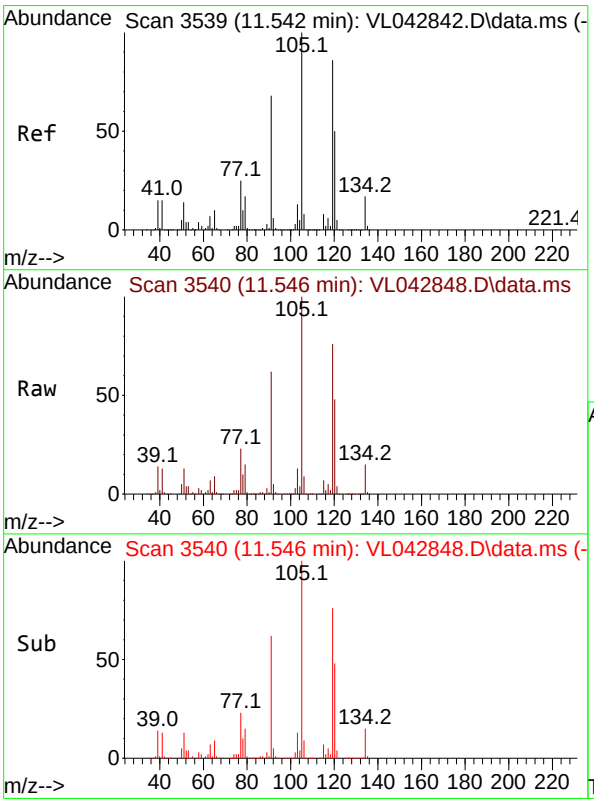
#73
1,3,5-Trimethylbenzene
Concen: 13.418 ppbv
RT: 11.212 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:105 Resp: 650280

Ion	Ratio	Lower	Upper
105	100		
120	46.4	36.6	54.8

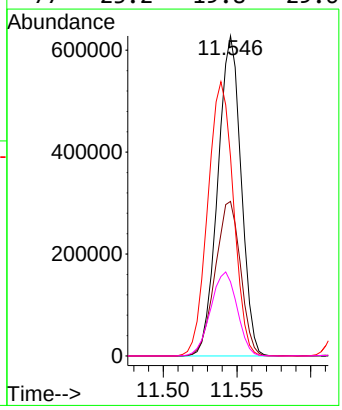


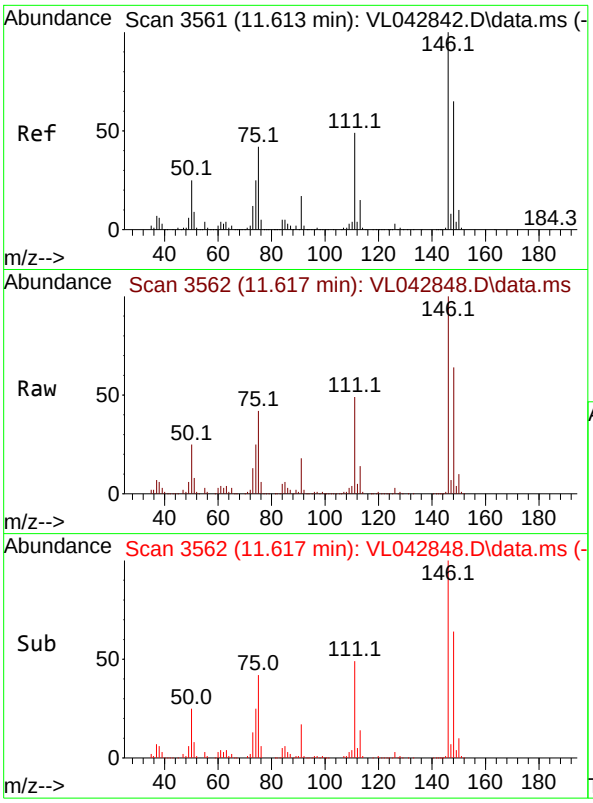


#74
1,2,4-Trimethylbenzene
Concen: 13.003 ppbv
RT: 11.546 min Scan# 3540
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

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



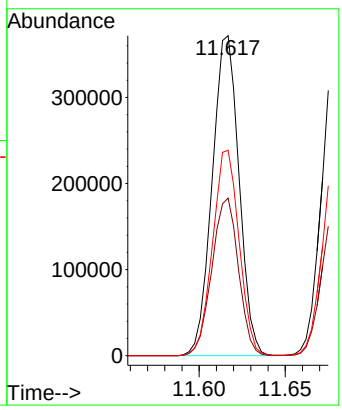


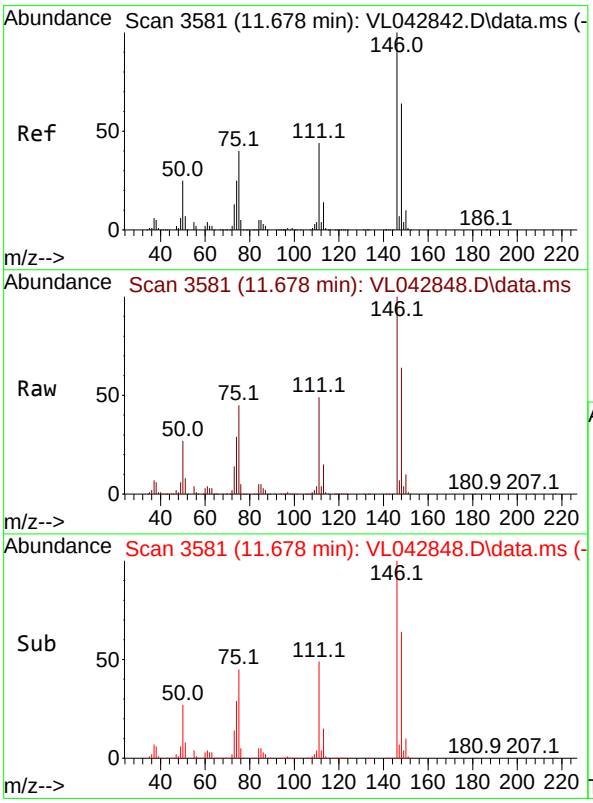
#75
1,3-Dichlorobenzene
Concen: 13.321 ppbv
RT: 11.617 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

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

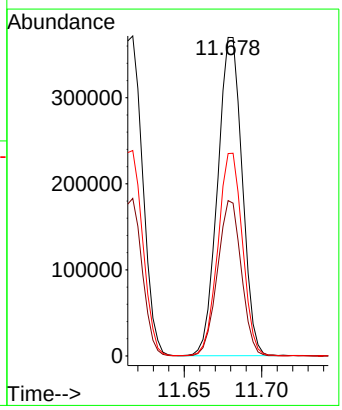


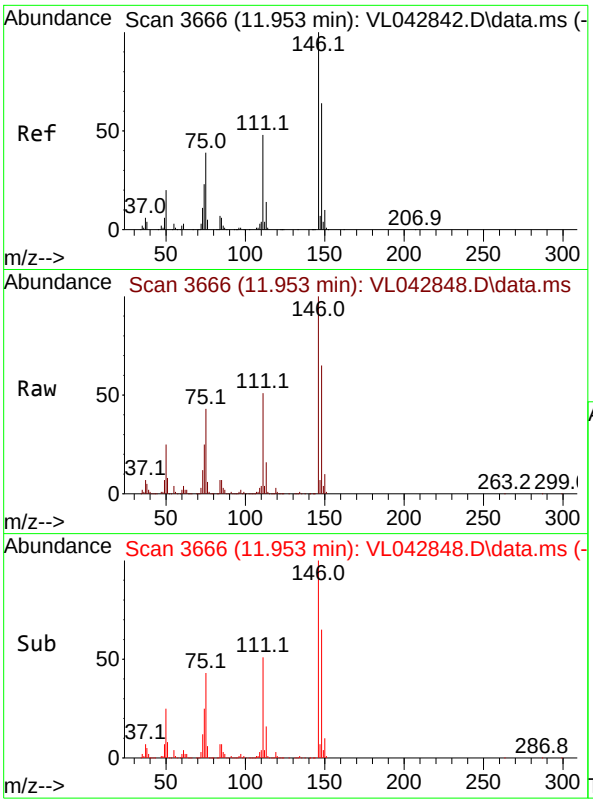


#76
1,4-Dichlorobenzene
Concen: 13.314 ppbv
RT: 11.678 min Scan# 3581
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

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



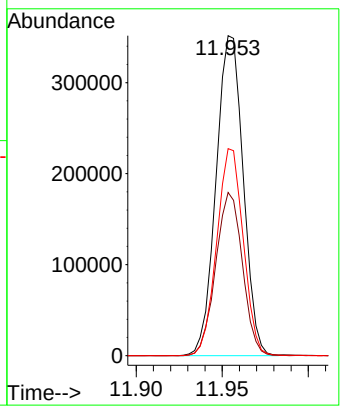


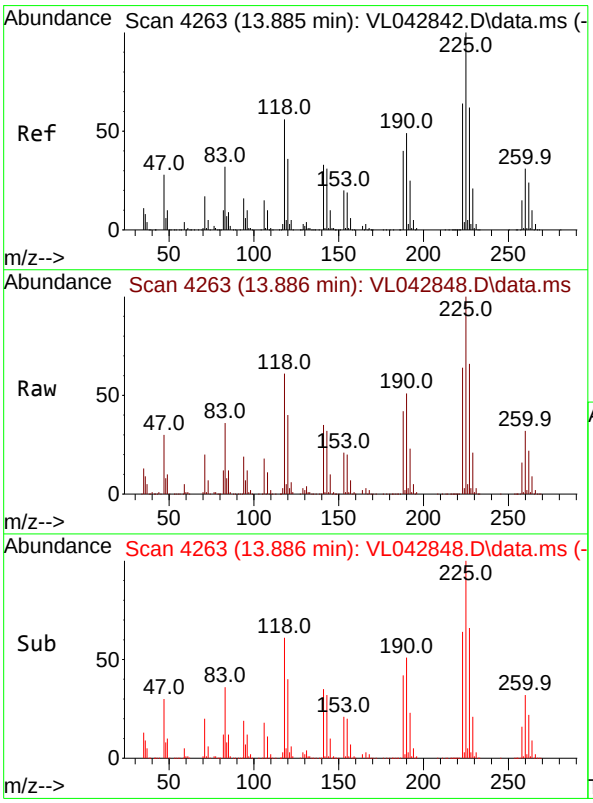
#77
1,2-Dichlorobenzene
Concen: 13.031 ppbv
RT: 11.953 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

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

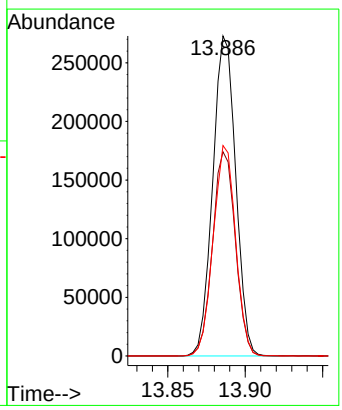


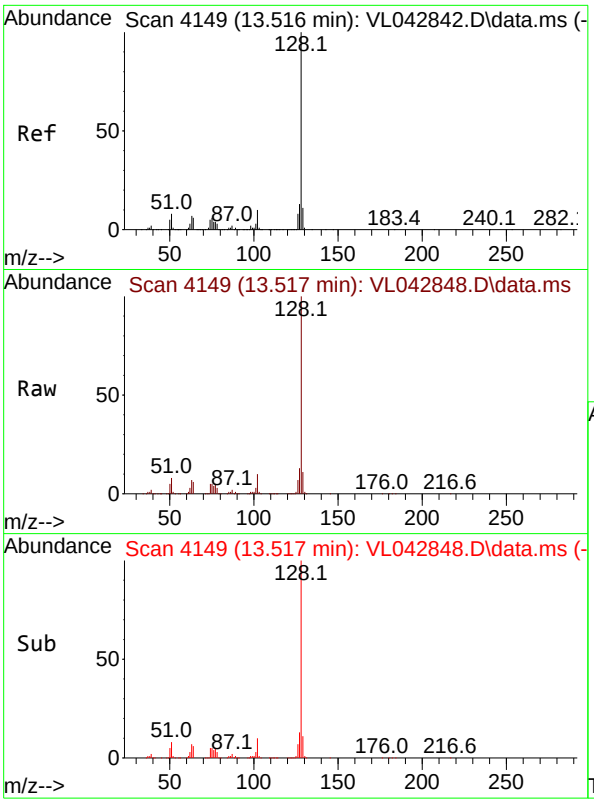


#78
Hexachloro-1,3-Butadiene
Concen: 11.602 ppbv
RT: 13.886 min Scan# 4263
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

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



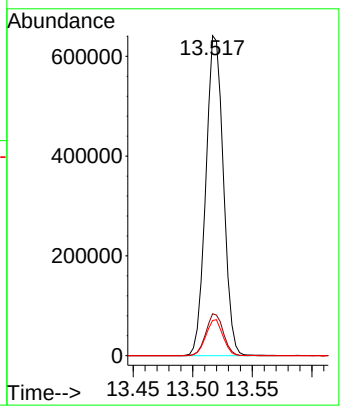


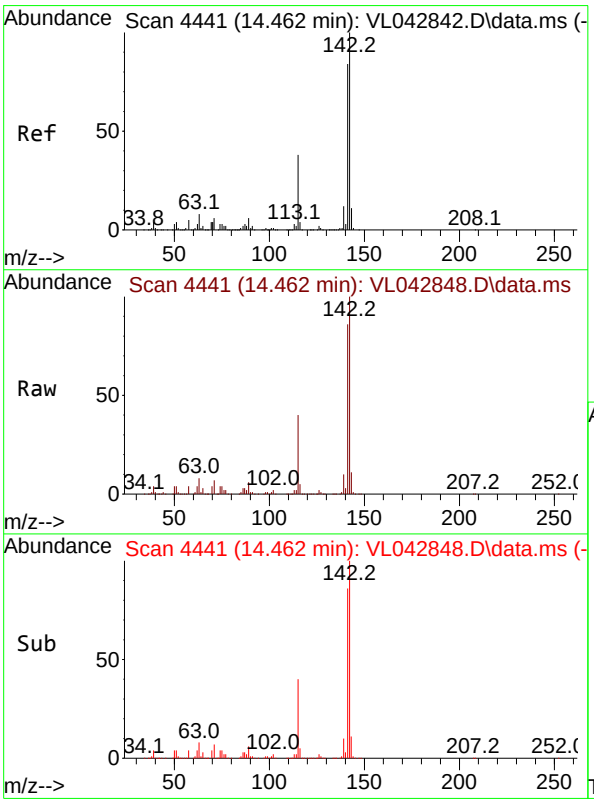
#79
Naphthalene
Concen: 13.837 ppbv
RT: 13.517 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

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

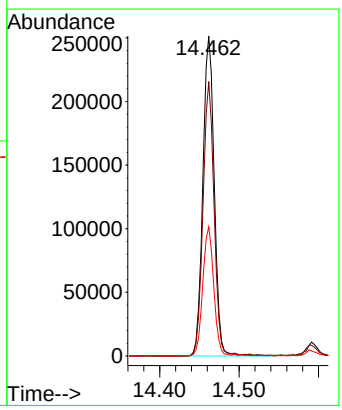


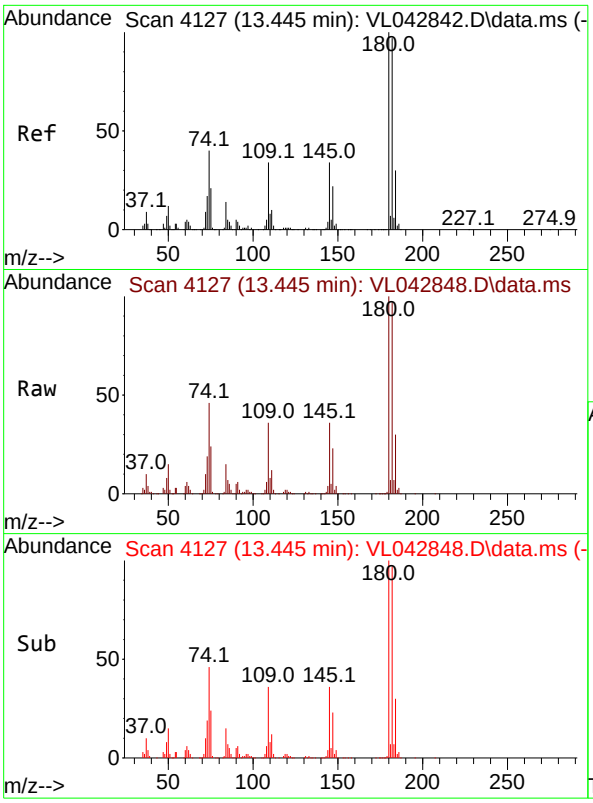


#80
Naphthalene,2-methyl-
Concen: 14.042 ppbv
RT: 14.462 min Scan# 4441
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

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



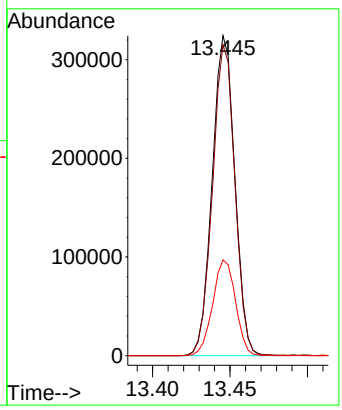


#81
1,2,4-Trichlorobenzene
Concen: 13.599 ppbv
RT: 13.445 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042848.D
Acq: 13 Aug 2025 12:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:180 Resp: 329641

Ion	Ratio	Lower	Upper
180	100		
182	96.2	76.9	115.3
184	30.3	24.5	36.7



Quantitation Report (Not Reviewed)

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_LFri 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

Quantitation Report (Not Reviewed)

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_LFri Aug 26 06:05:16 2022
QLast Update : Thu Aug 14 02:12:54 2025
Response via : Initial Calibration

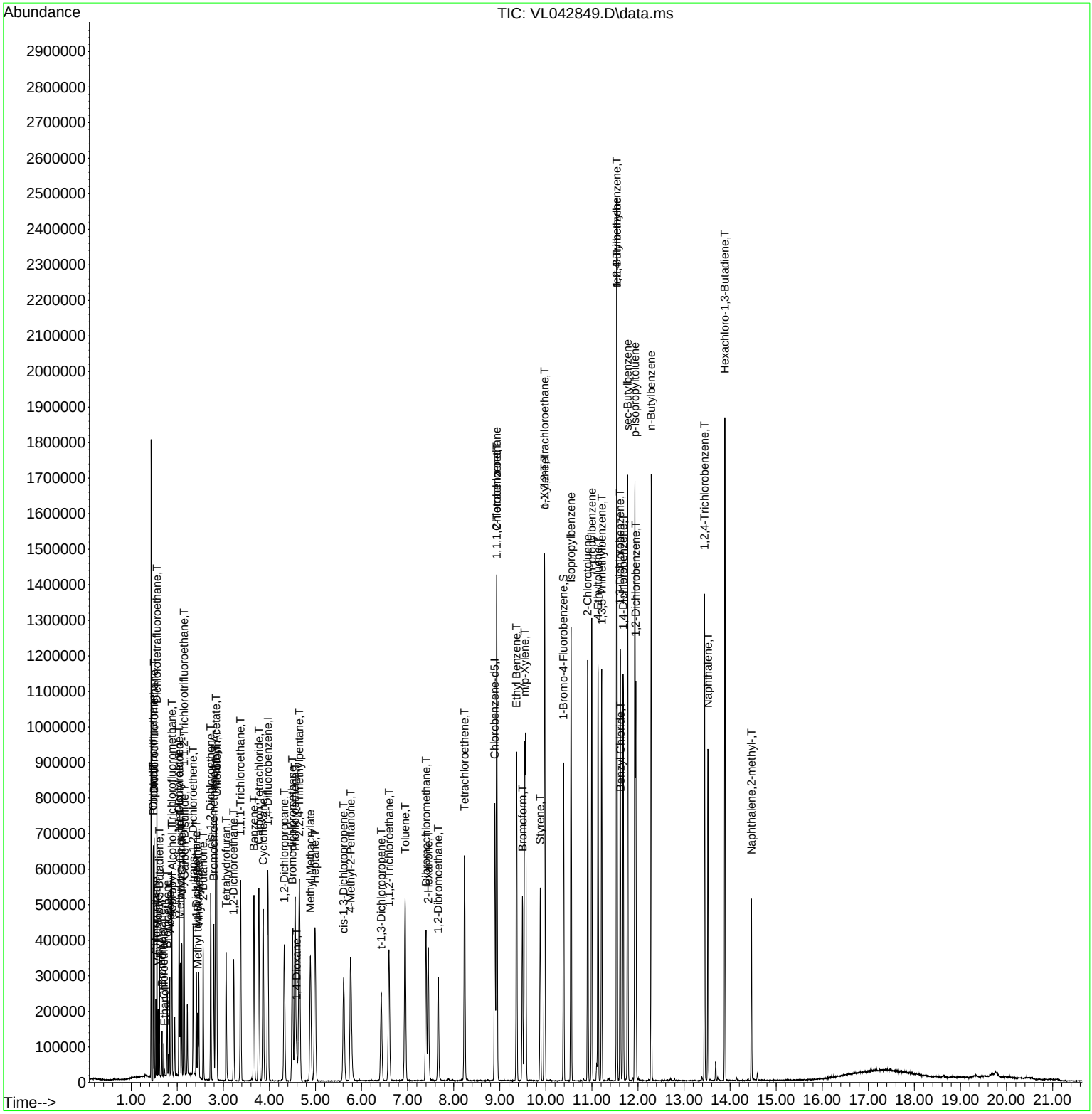
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.613	75	108009	5.200	ppbv		99
47) 1,1,2-Trichloroethane	6.597	97	132548	9.553	ppbv		99
48) Dibromochloromethane	7.399	129	217970	9.708	ppbv		100
49) Bromoform	9.493	173	174914	9.446	ppbv		99
50) 4-Methyl-2-Pentanone	5.765	43	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

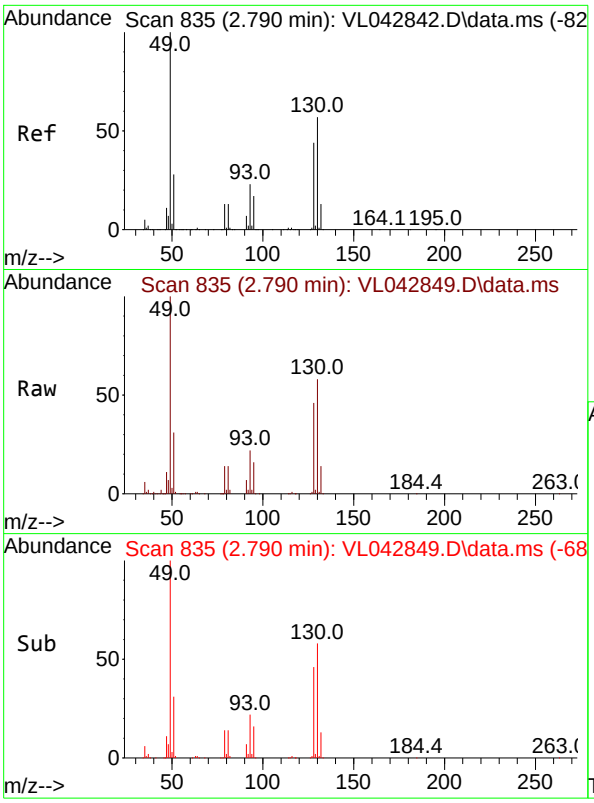
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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_LFri Aug 26 06:05:16 2022
QLast Update : Thu Aug 14 02:12:54 2025
Response via : Initial Calibration



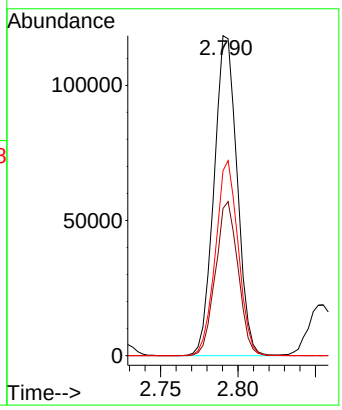


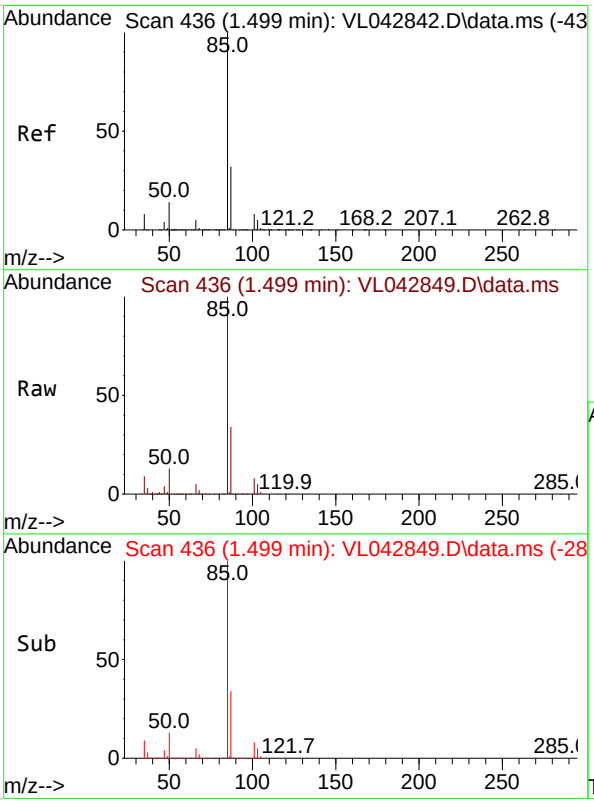
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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

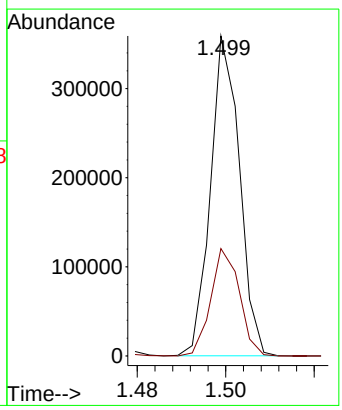


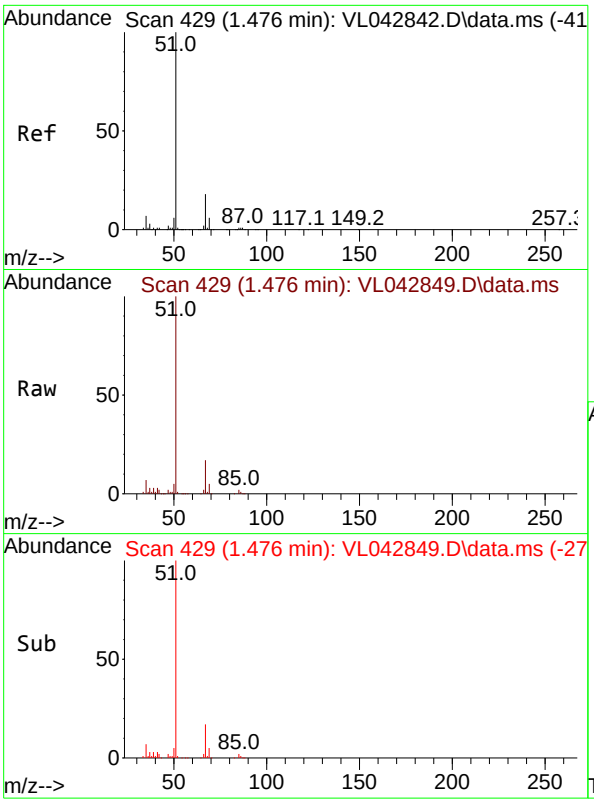


#2
Dichlorodifluoromethane
Concen: 9.105 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 85 Resp: 163446

Ion	Ratio	Lower	Upper
85	100		
87	33.6	25.3	37.9



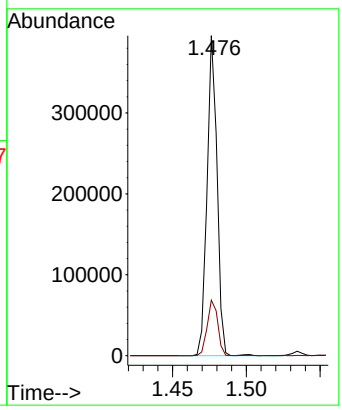


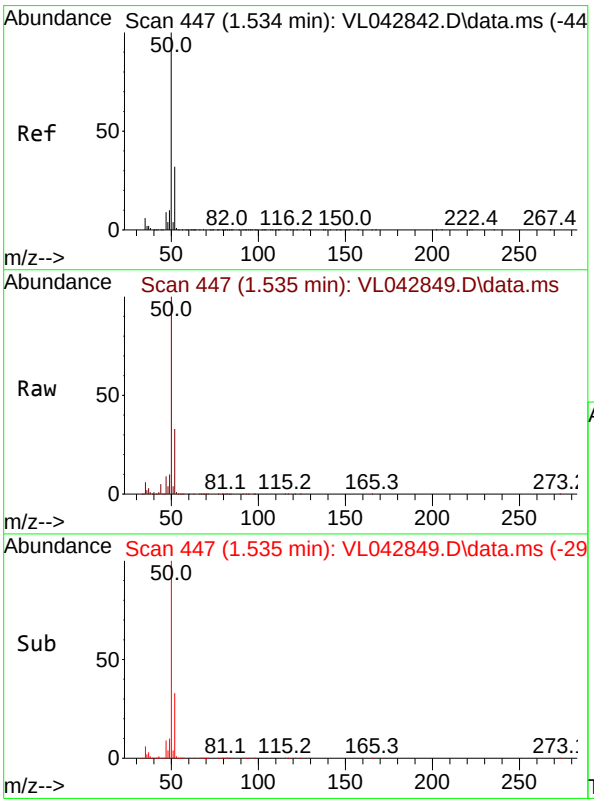
#3
Chlorodifluoromethane
Concen: 9.327 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Tgt Ion: 51 Resp: 185078

Ion	Ratio	Lower	Upper
51	100		
67	18.6	14.9	22.3

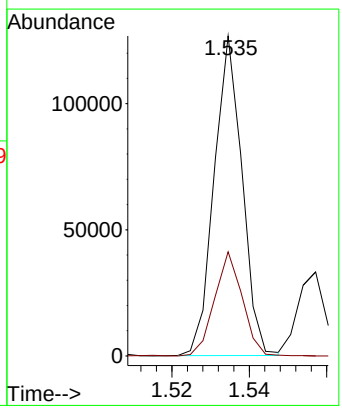


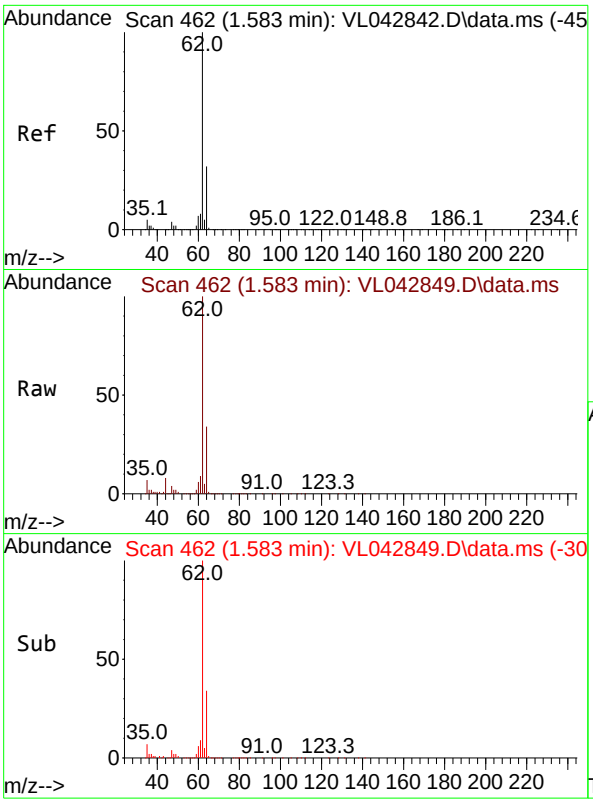


#4
Chloromethane
Concen: 8.784 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 50 Resp: 63634

Ion	Ratio	Lower	Upper
50	100		
52	32.6	25.9	38.9



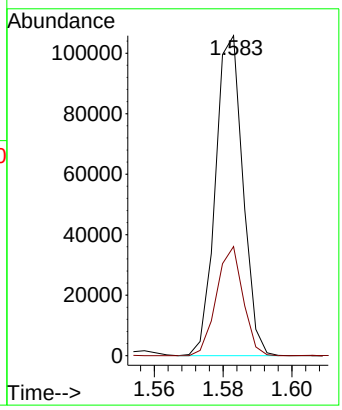


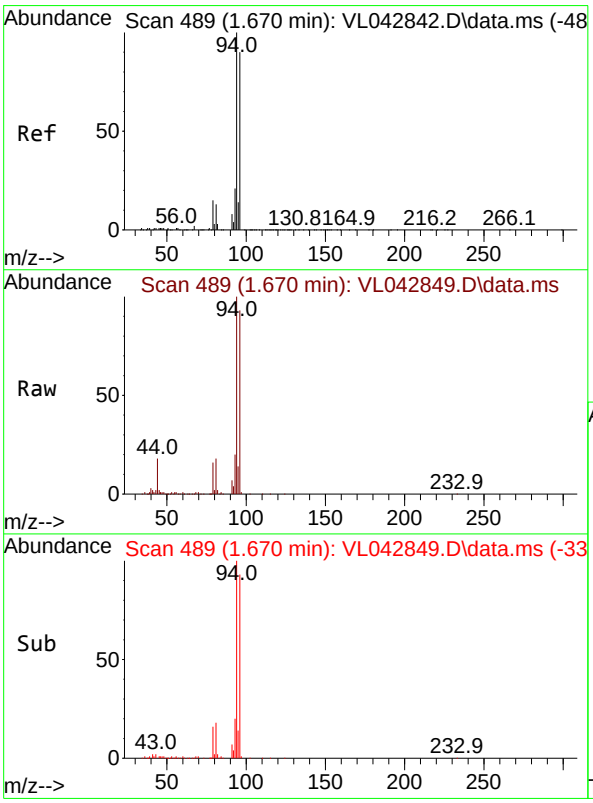
#5
Vinyl Chloride
Concen: 8.232 ppbv
RT: 1.583 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Tgt Ion: 62 Resp: 58729

Ion	Ratio	Lower	Upper
62	100		
64	34.1	25.4	38.2

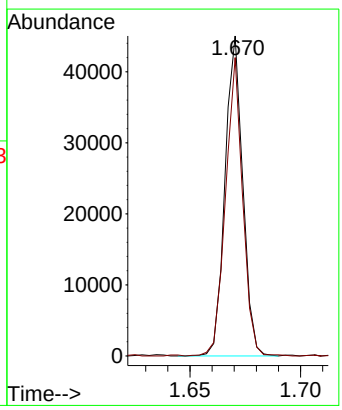


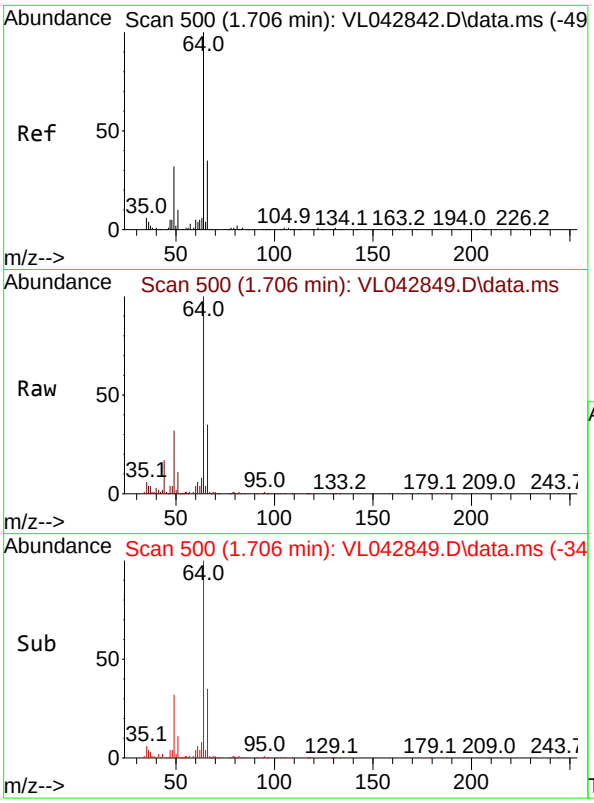


#6
Bromomethane
Concen: 8.801 ppbv
RT: 1.670 min Scan# 489
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 94 Resp: 25105

Ion	Ratio	Lower	Upper
94	100		
96	92.9	72.1	108.1



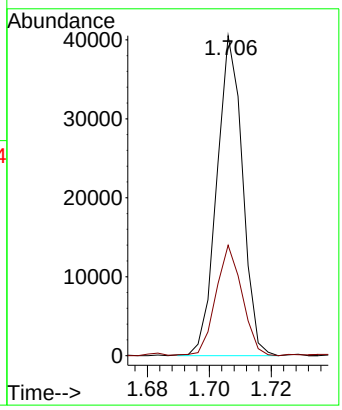


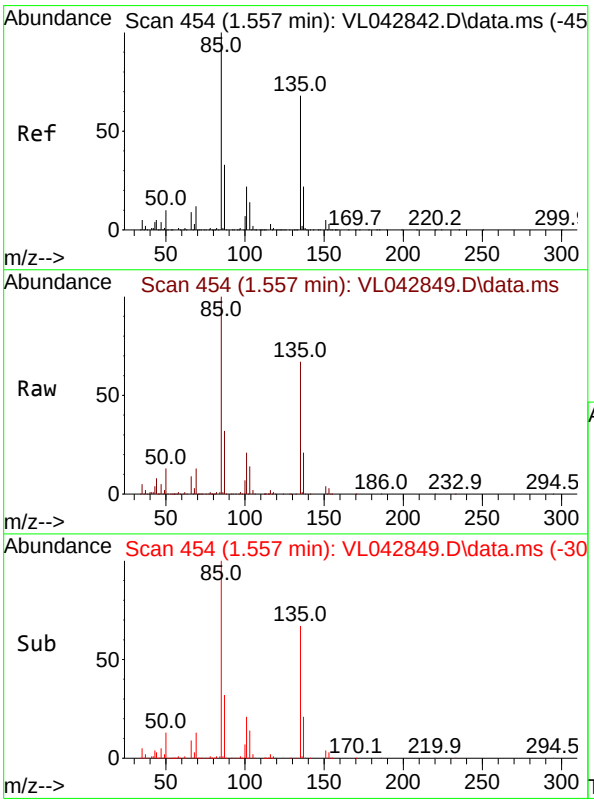
#7
Chloroethane
Concen: 8.360 ppbv
RT: 1.706 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Tgt Ion: 64 Resp: 23293

Ion	Ratio	Lower	Upper
64	100		
66	34.5	28.6	42.8

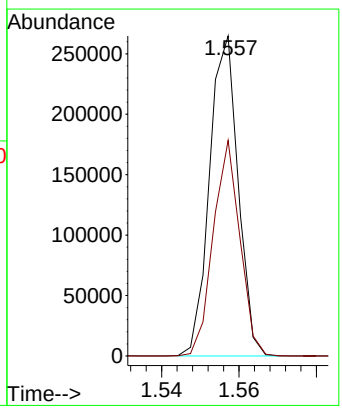


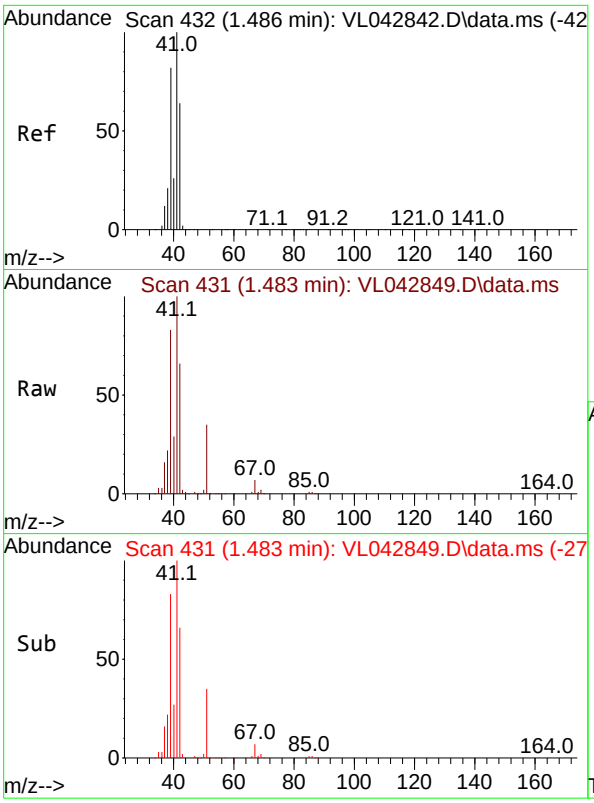


#8
Dichlorotetrafluoroethane
Concen: 9.248 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 85 Resp: 135845

Ion	Ratio	Lower	Upper
85	100		
135	62.9	51.2	76.8



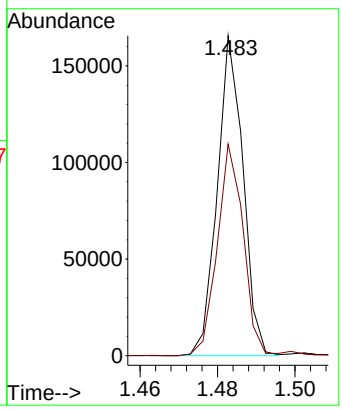


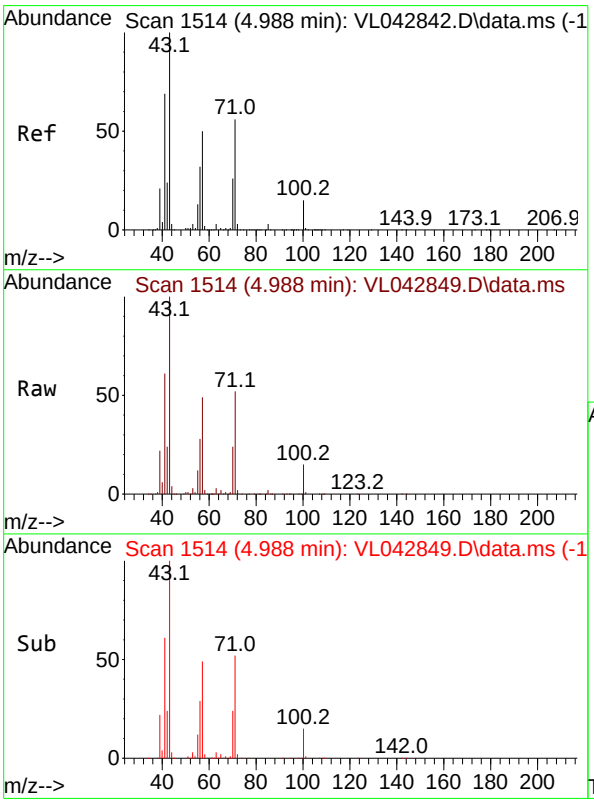
#9
Propene
Concen: 8.922 ppbv
RT: 1.483 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Tgt Ion: 41 Resp: 76457

Ion	Ratio	Lower	Upper
41	100		
42	68.4	53.0	79.4

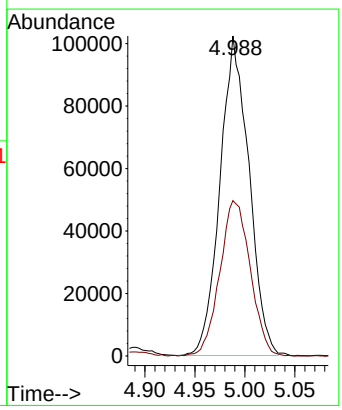


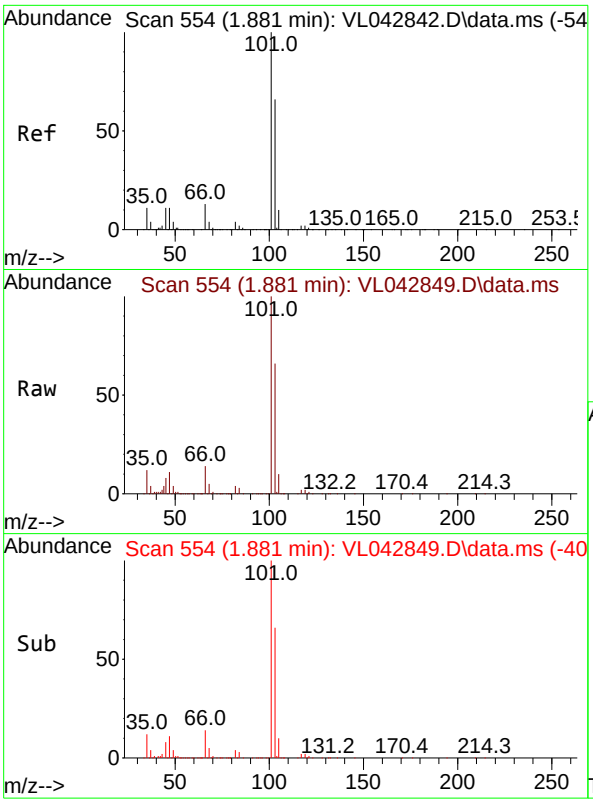


#10
Heptane
Concen: 8.990 ppbv
RT: 4.988 min Scan# 1514
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 43 Resp: 206333

Ion	Ratio	Lower	Upper
43	100		
57	51.2	41.4	62.0



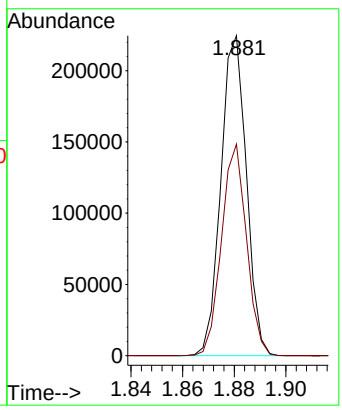


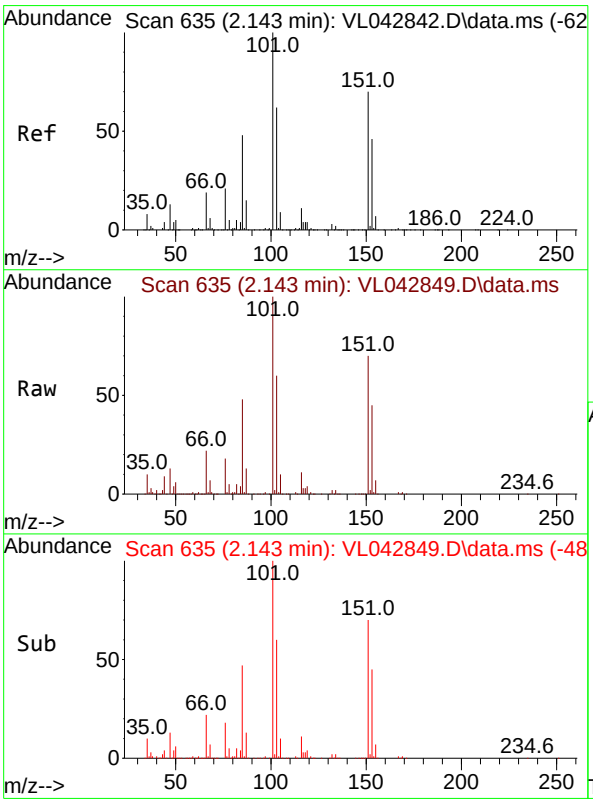
#11
Trichlorofluoromethane
Concen: 8.707 ppbv
RT: 1.881 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Tgt Ion:101 Resp: 154211

Ion	Ratio	Lower	Upper
101	100		
103	66.1	52.5	78.7

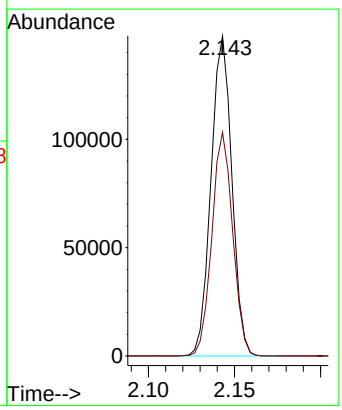


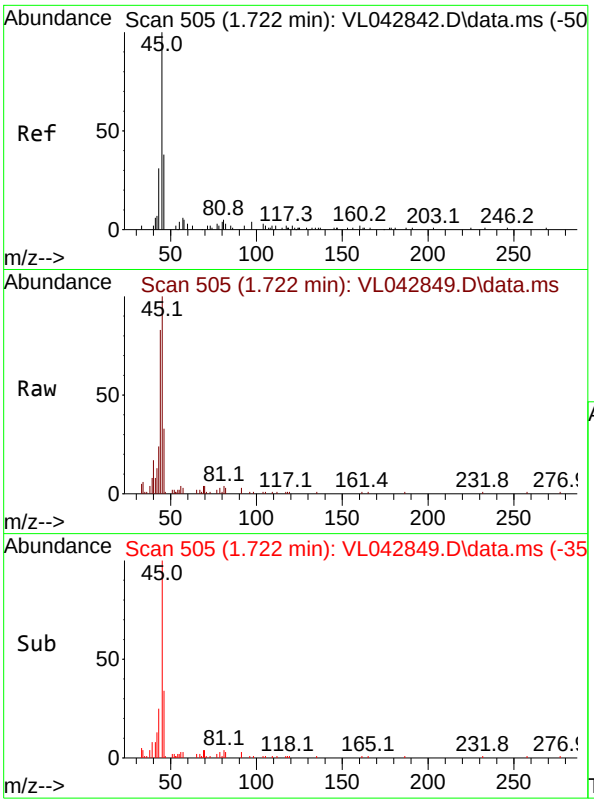


#12
1,1,2-Trichlorotrifluoroethane
Concen: 8.824 ppbv
RT: 2.143 min Scan# 635
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion:101 Resp: 124558

Ion	Ratio	Lower	Upper
101	100		
151	69.7	56.4	84.6



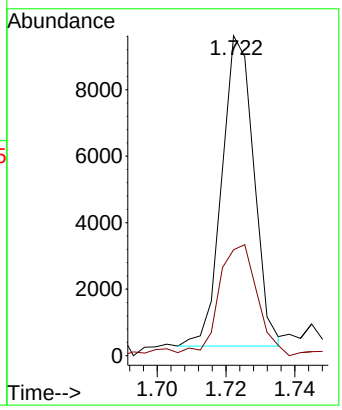


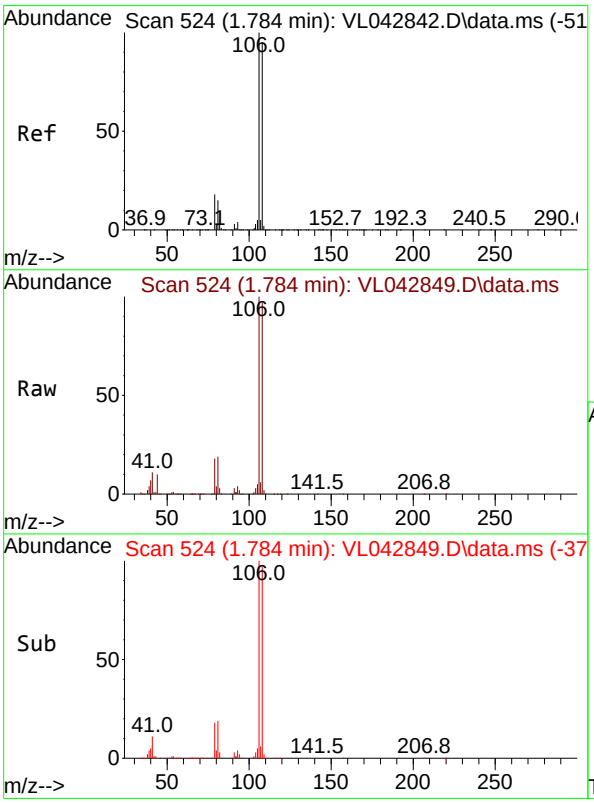
#13
Ethanol
Concen: 7.678 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Tgt Ion: 45 Resp: 6016

Ion	Ratio	Lower	Upper
45	100		
46	46.2	17.5	69.9

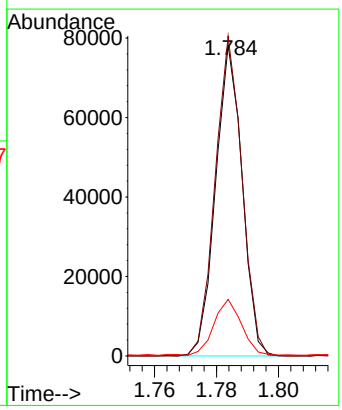


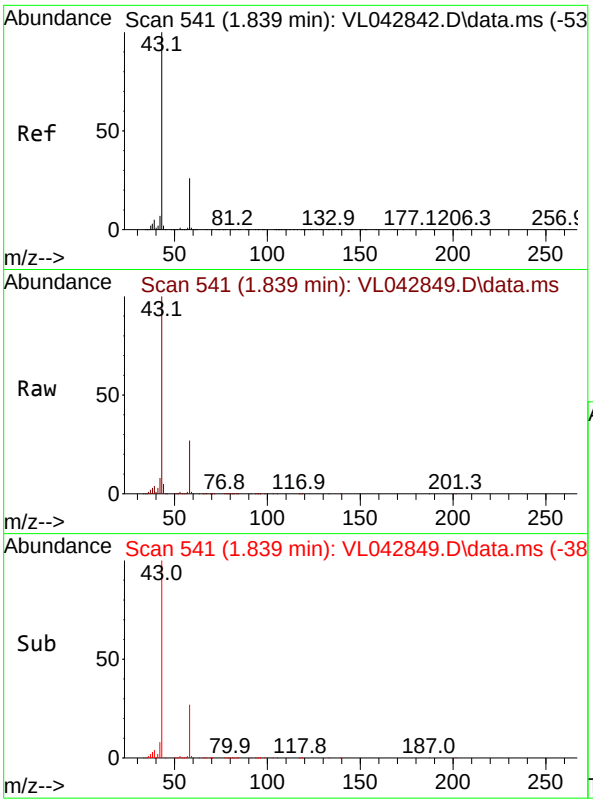


#14
Bromoethene
Concen: 9.105 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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



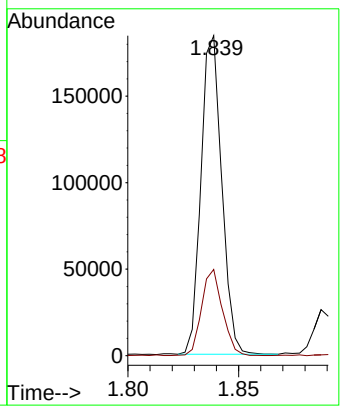


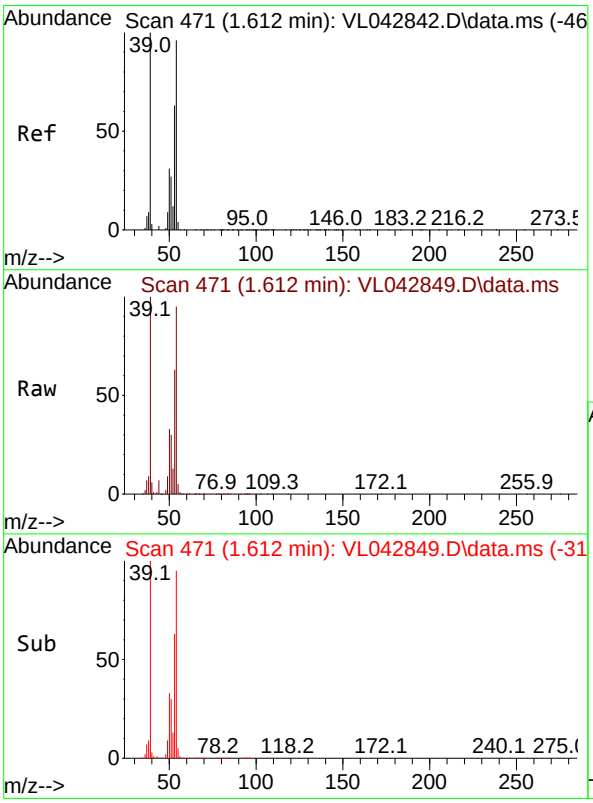
#15
Acetone
Concen: 7.389 ppbv
RT: 1.839 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Tgt Ion: 43 Resp: 119723

Ion	Ratio	Lower	Upper
43	100		
58	27.6	22.4	33.6

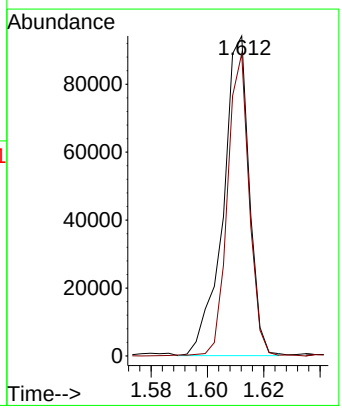


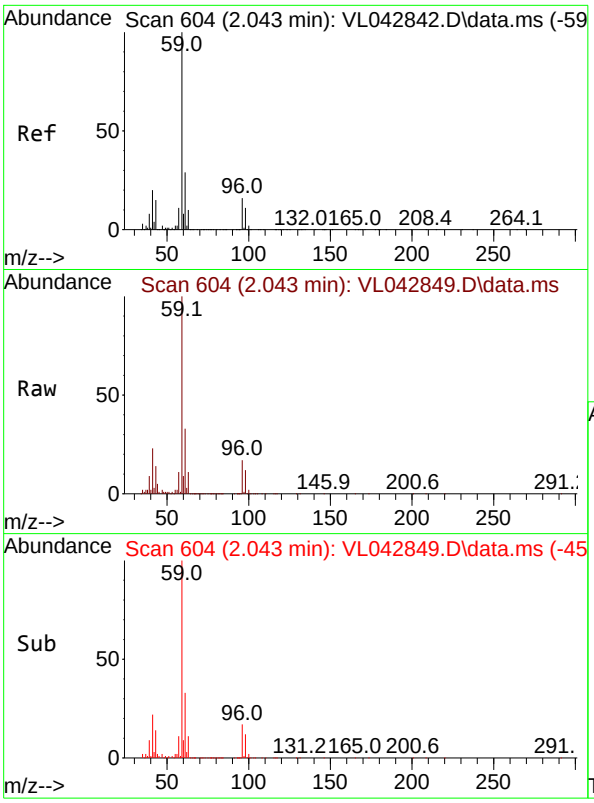


#16
1,3-Butadiene
Concen: 8.285 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 39 Resp: 60853

Ion	Ratio	Lower	Upper
39	100		
54	78.9	63.6	95.4



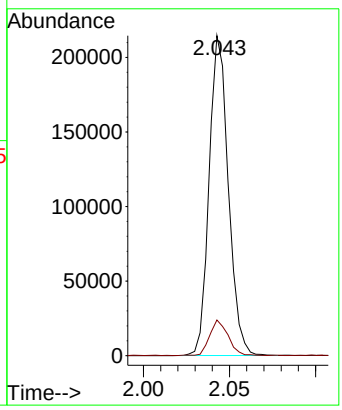


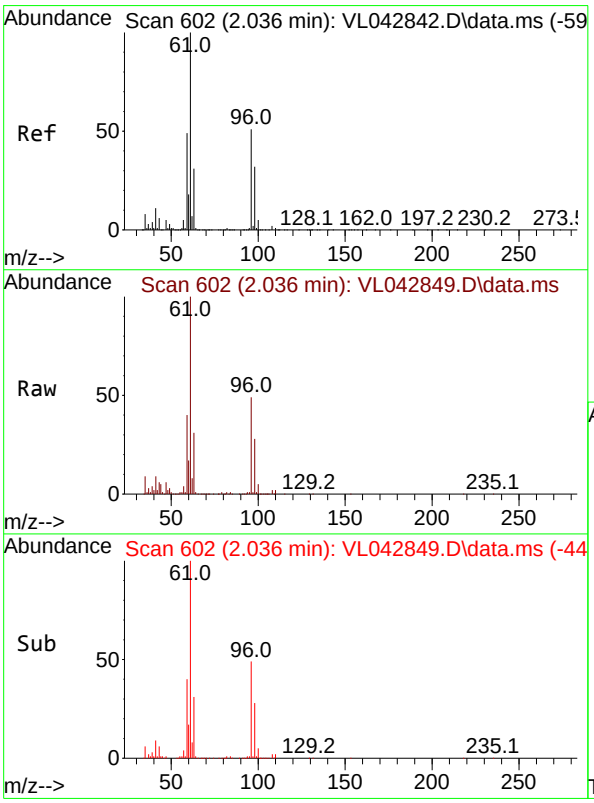
#17
tert-Butyl alcohol
Concen: 8.663 ppbv
RT: 2.043 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Tgt Ion: 59 Resp: 166457

Ion	Ratio	Lower	Upper
59	100		
57	10.7	9.0	13.4

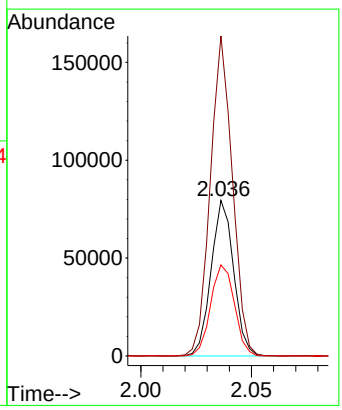


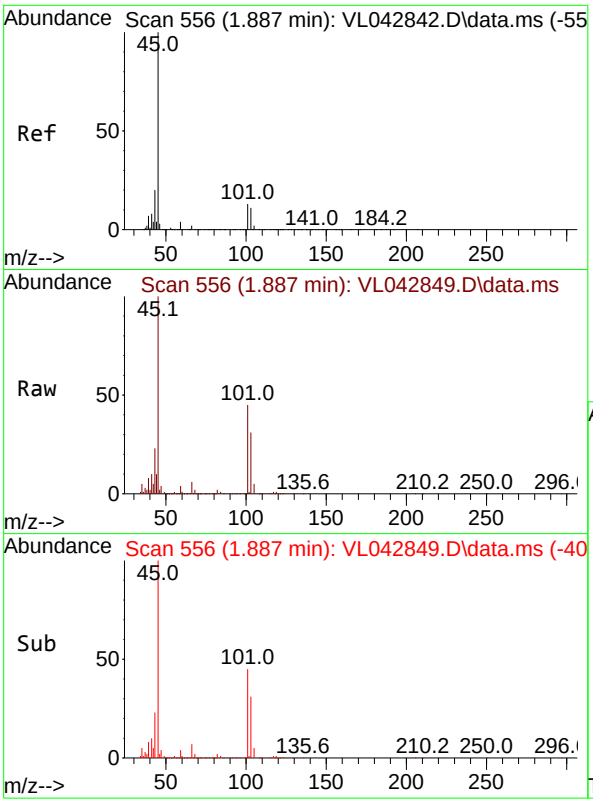


#18
1,1-Dichloroethene
Concen: 9.087 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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



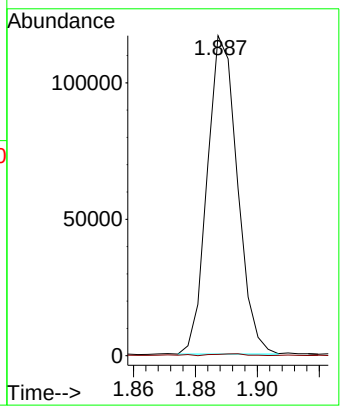


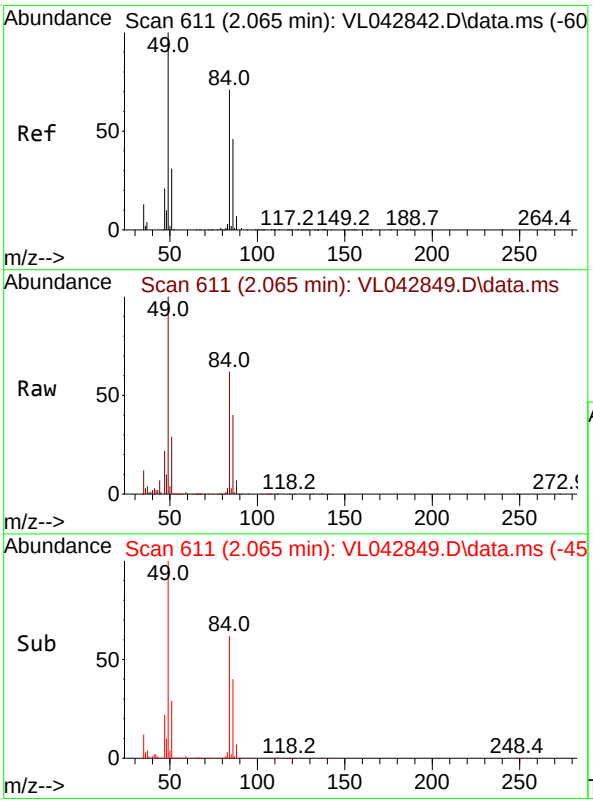
#19
Isopropyl Alcohol
Concen: 8.146 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Tgt Ion: 45 Resp: 78832

Ion	Ratio	Lower	Upper
45	100		
58	42.0	32.7	49.1

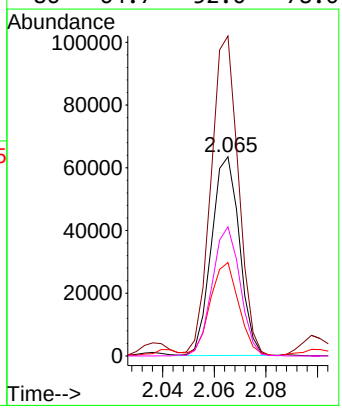


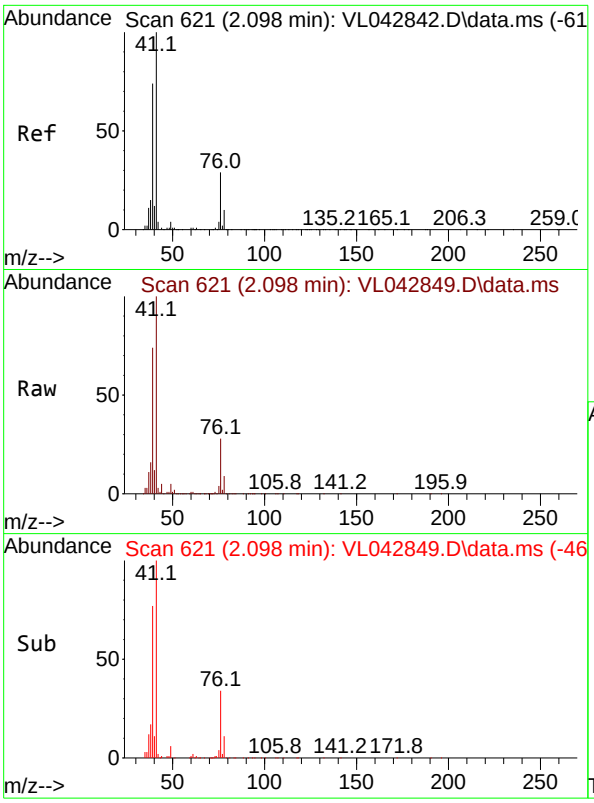


#20
Methylene Chloride
Concen: 7.041 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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



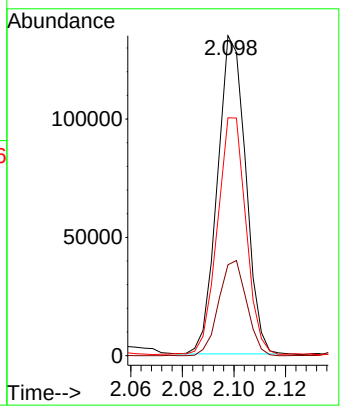


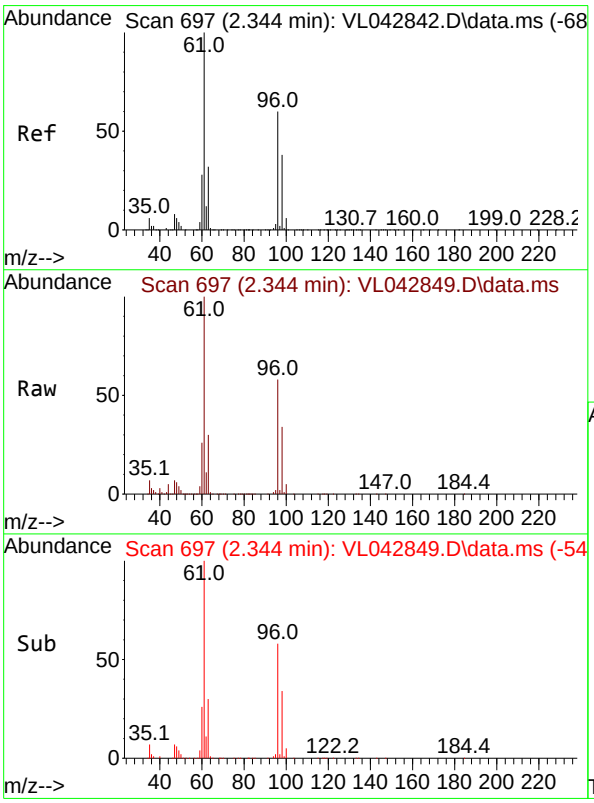
#21
Allyl Chloride
Concen: 8.956 ppbv
RT: 2.098 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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

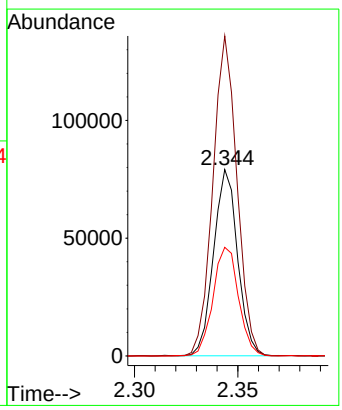


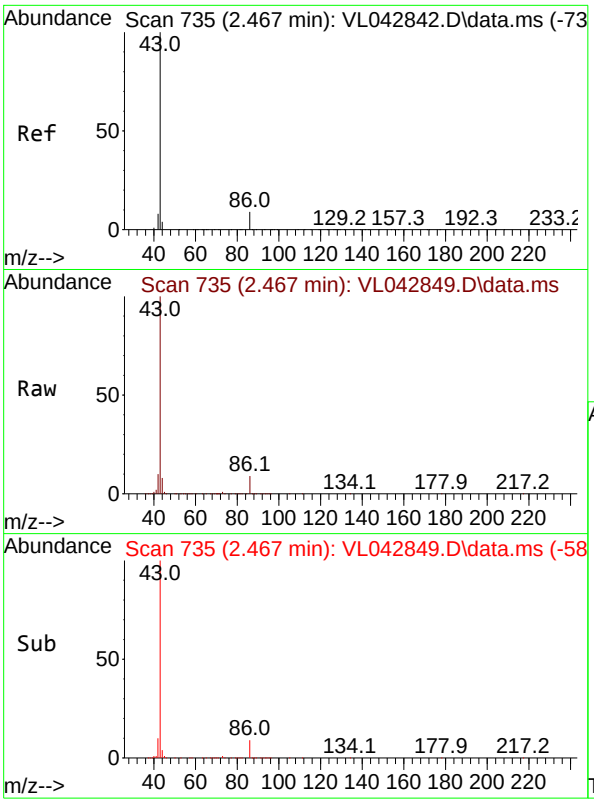


#22
trans-1,2-Dichloroethene
Concen: 8.904 ppbv
RT: 2.344 min Scan# 697
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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



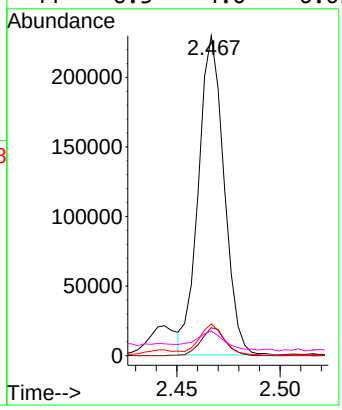


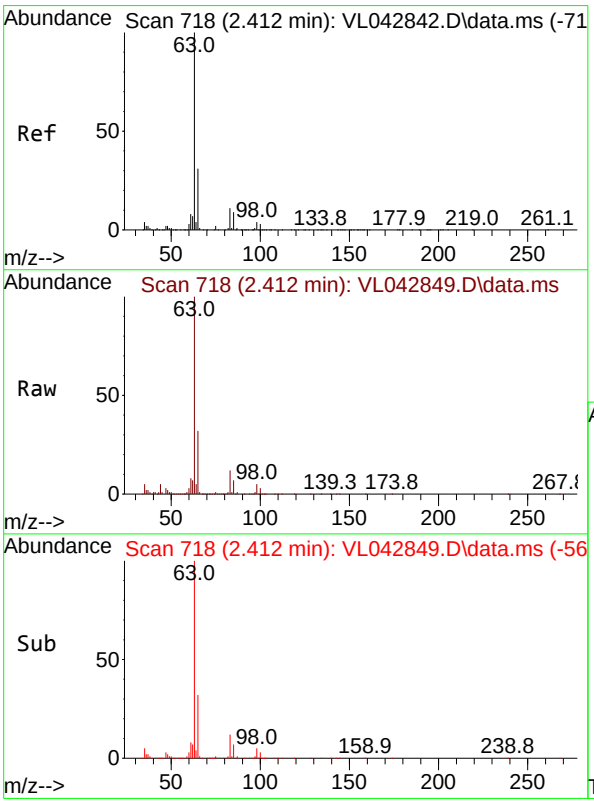
#23
Vinyl Acetate
Concen: 8.891 ppbv
RT: 2.467 min Scan# 7
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Tgt Ion: 43 Resp: 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#

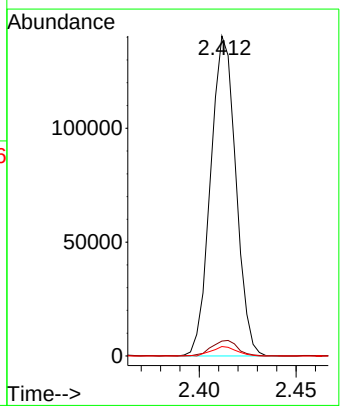


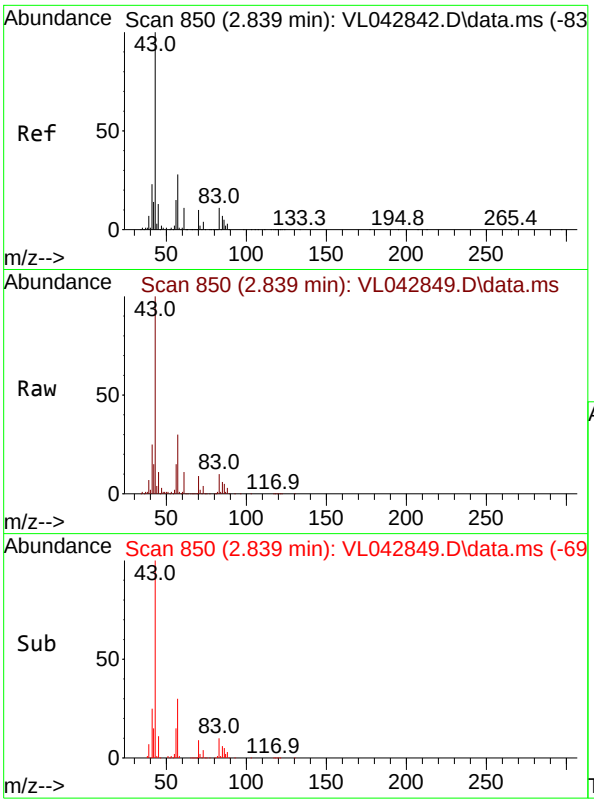


#24
1,1-Dichloroethane
Concen: 8.903 ppbv
RT: 2.412 min Scan# 718
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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



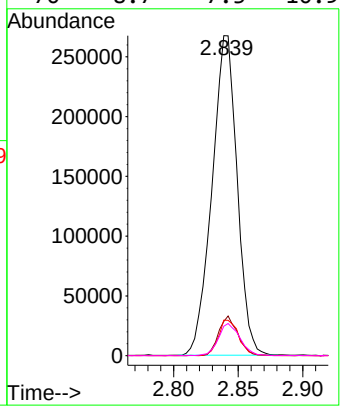


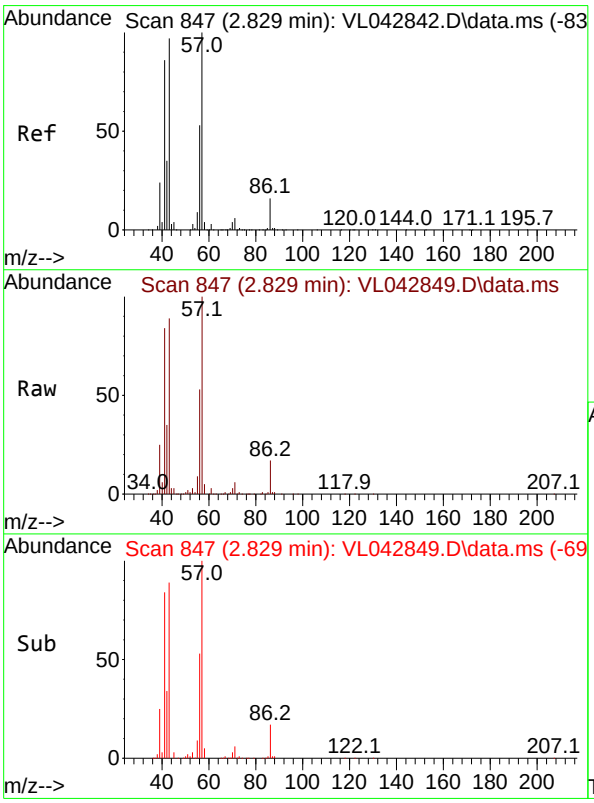
#25
Ethyl Acetate
Concen: 9.240 ppbv
RT: 2.839 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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

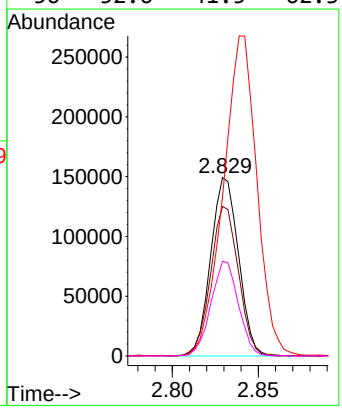


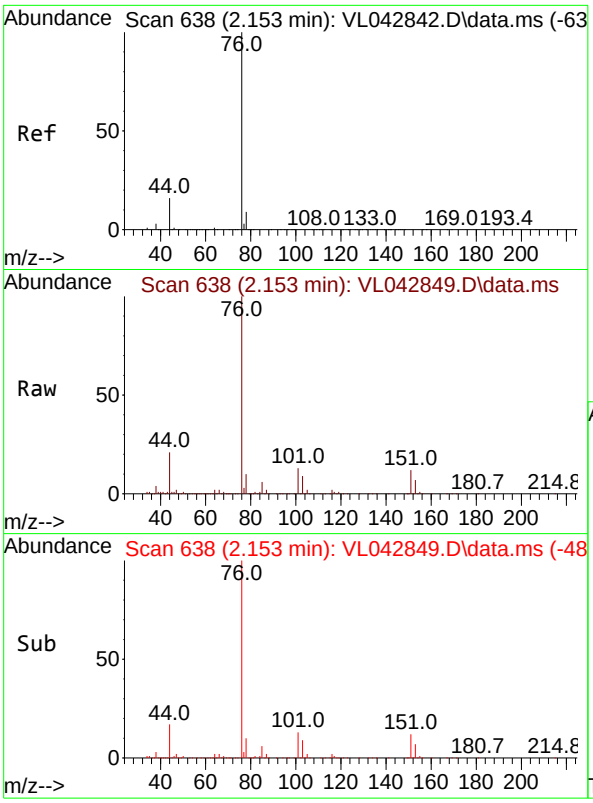


#26
Hexane
Concen: 9.246 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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



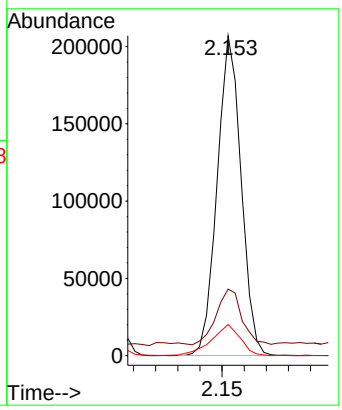


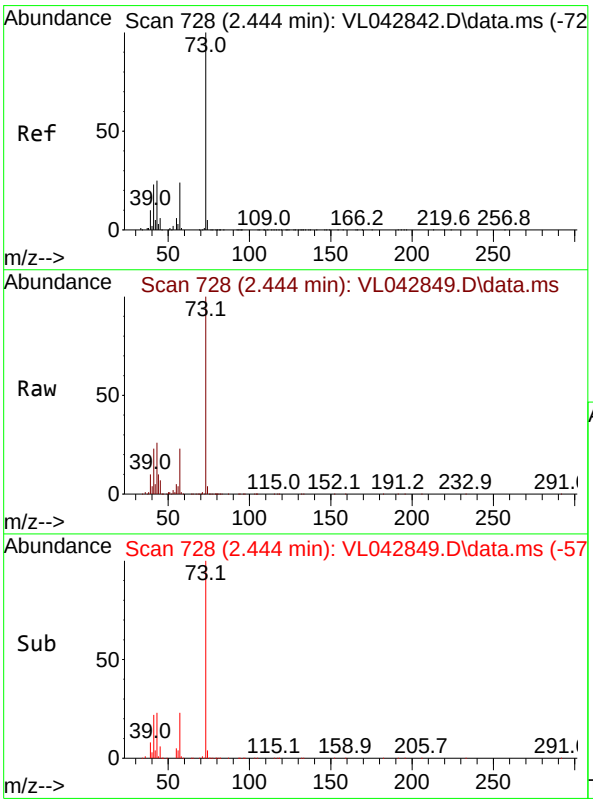
#27
Carbon Disulfide
Concen: 8.841 ppbv
RT: 2.153 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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

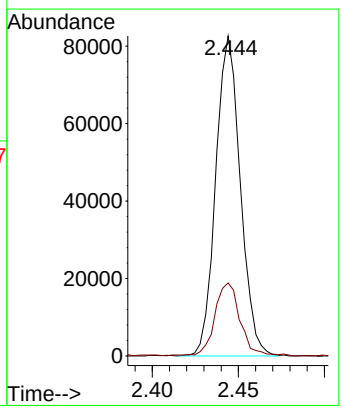


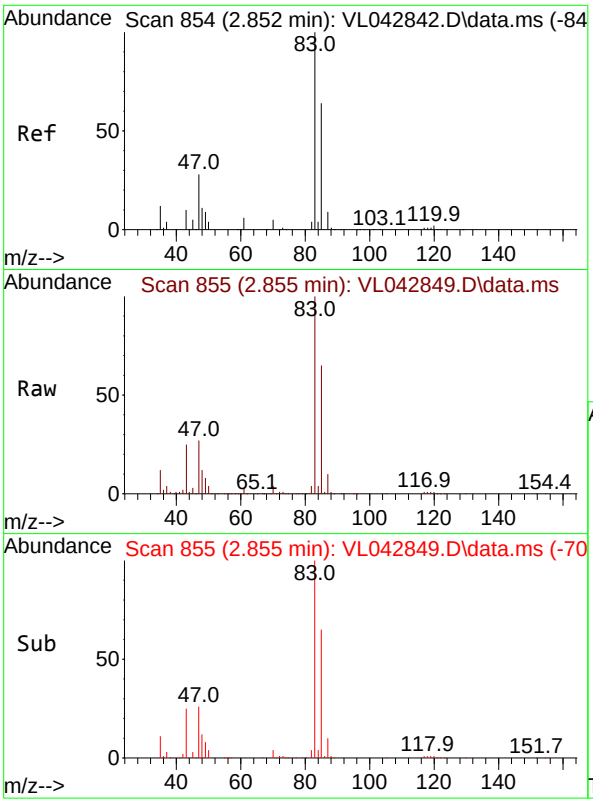


#28
Methyl tert-Butyl Ether
Concen: 8.898 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 73 Resp: 82126

Ion	Ratio	Lower	Upper
73	100		
57	22.9	21.6	32.4



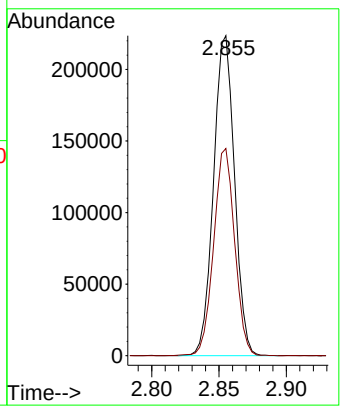


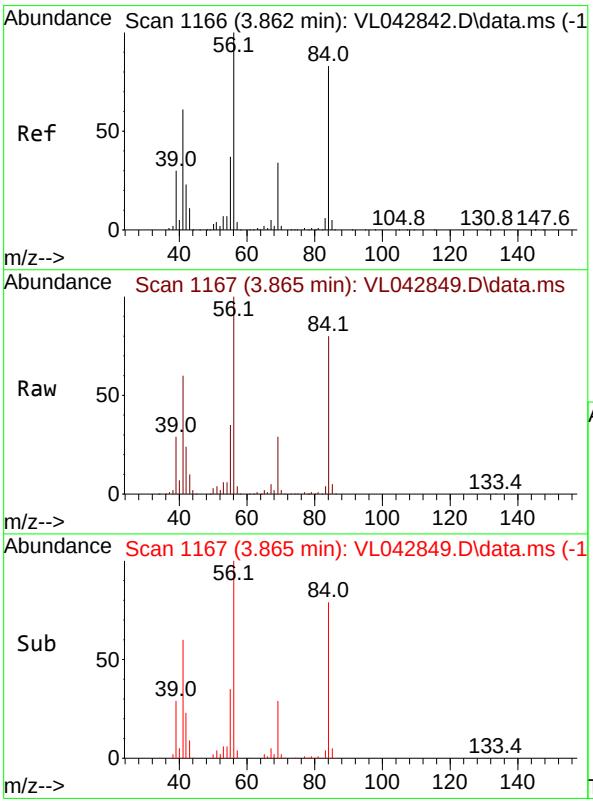
#29
Chloroform
Concen: 9.377 ppbv
RT: 2.855 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Tgt Ion: 83 Resp: 242320

Ion	Ratio	Lower	Upper
83	100		
85	64.8	51.1	76.7

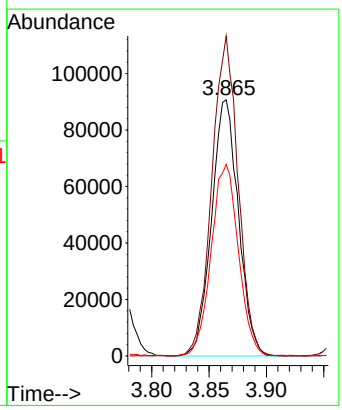


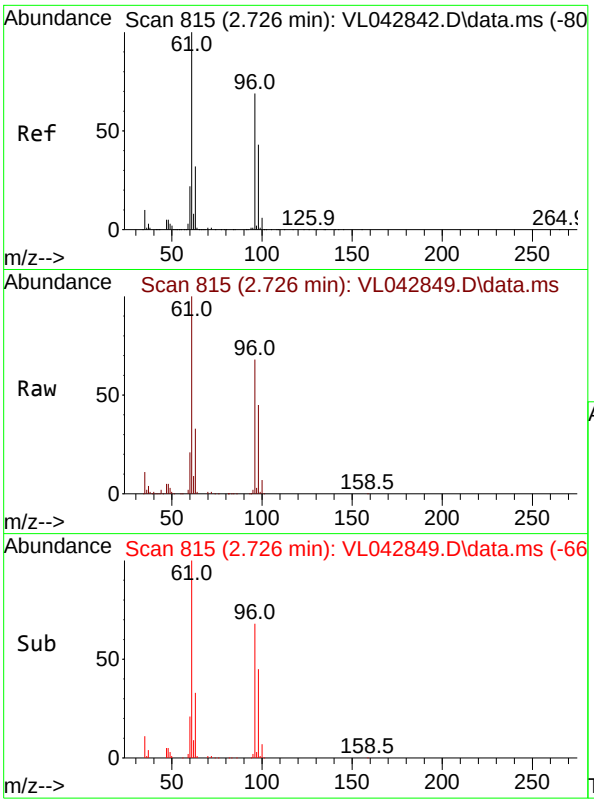


#30
Cyclohexane
Concen: 9.289 ppbv
RT: 3.865 min Scan# 1167
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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



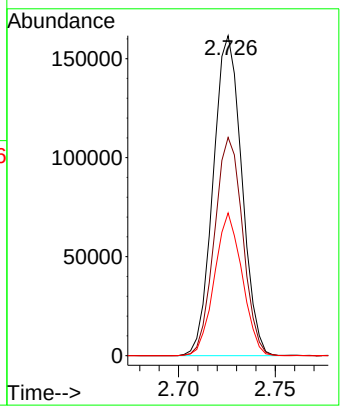


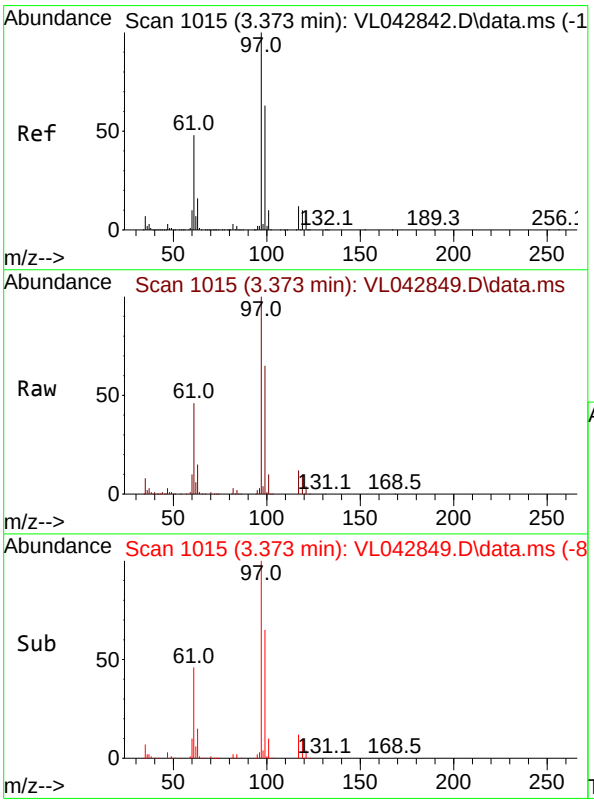
#31
cis-1,2-Dichloroethene
Concen: 9.196 ppbv
RT: 2.726 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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

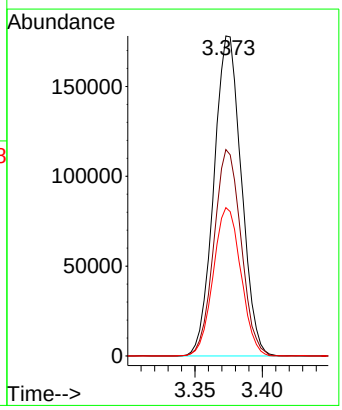


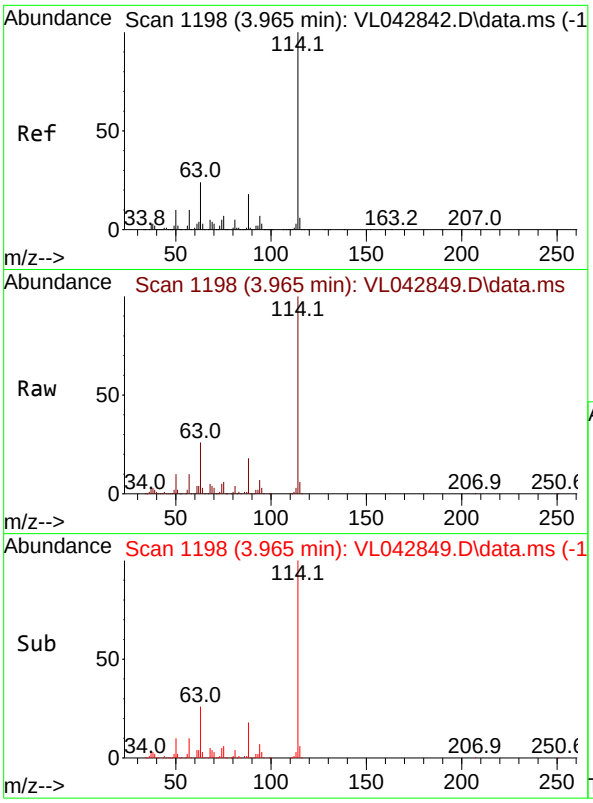


#32
1,1,1-Trichloroethane
Concen: 9.256 ppbv
RT: 3.373 min Scan# 1015
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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



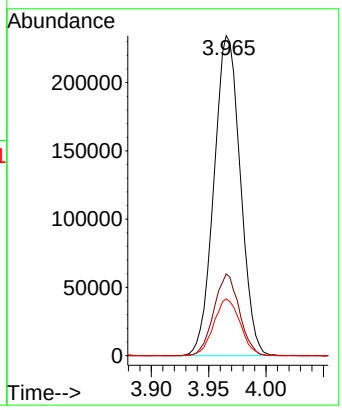


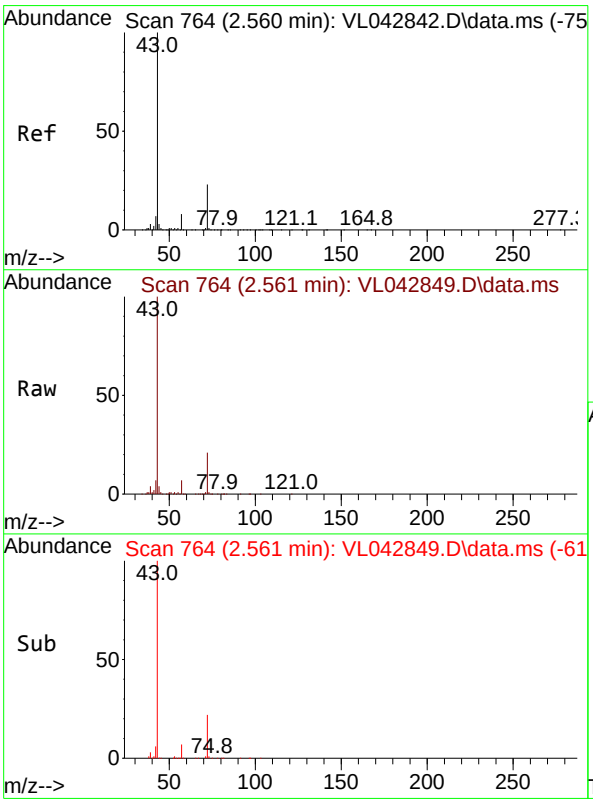
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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

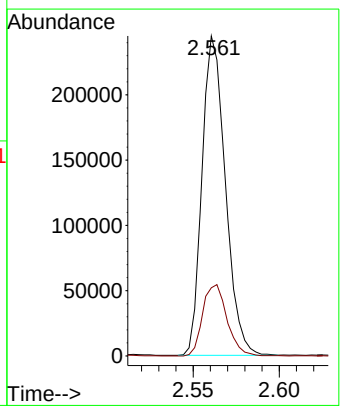


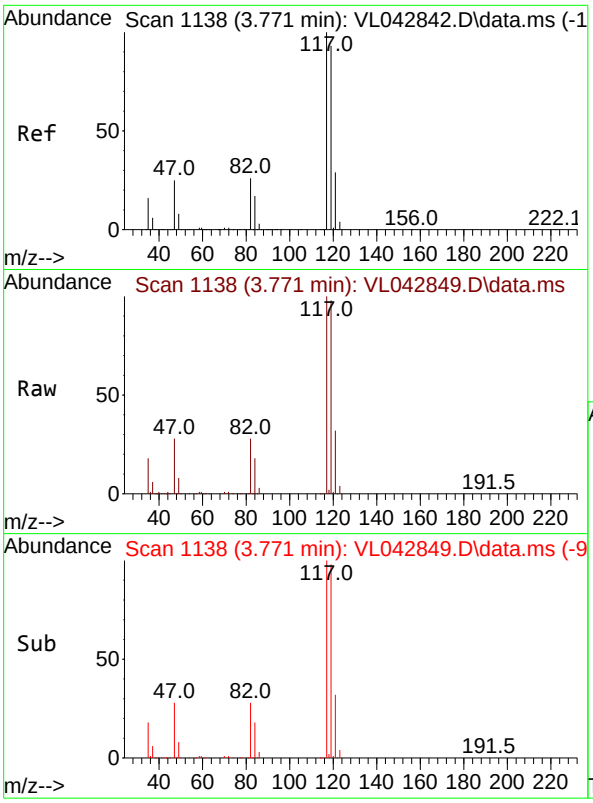


#34
2-Butanone
Concen: 9.135 ppbv
RT: 2.561 min Scan# 764
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 43 Resp: 230961

Ion	Ratio	Lower	Upper
43	100		
72	23.4	18.6	28.0



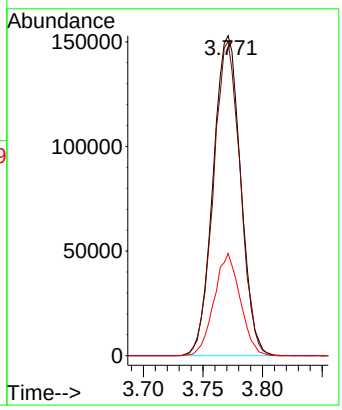


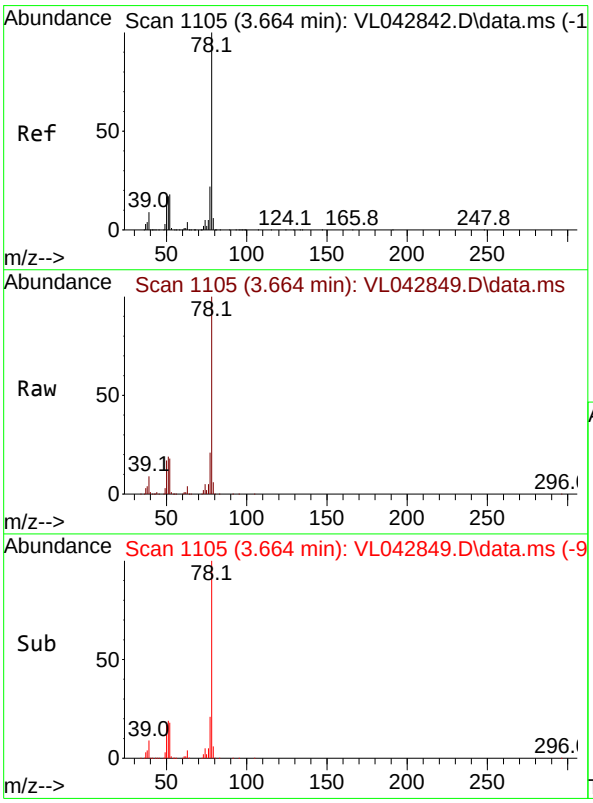
#35
Carbon Tetrachloride
Concen: 9.478 ppbv
RT: 3.771 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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

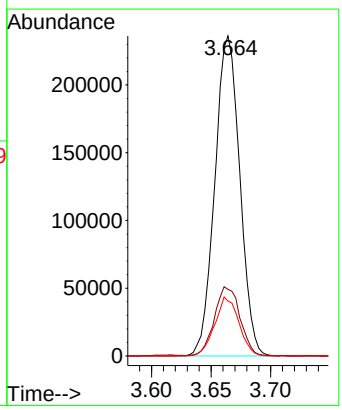


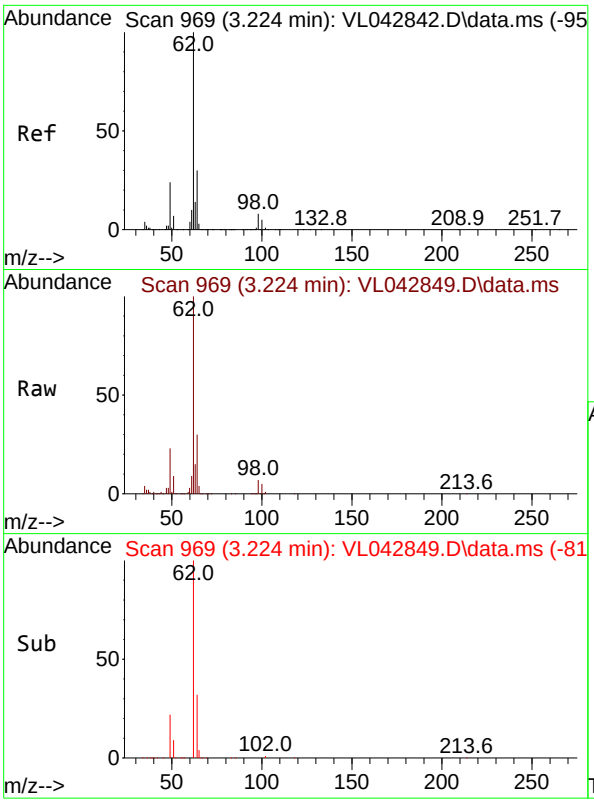


#36
Benzene
Concen: 9.592 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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



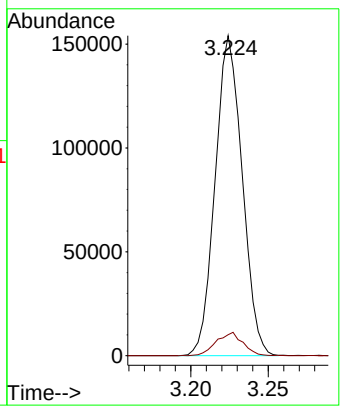


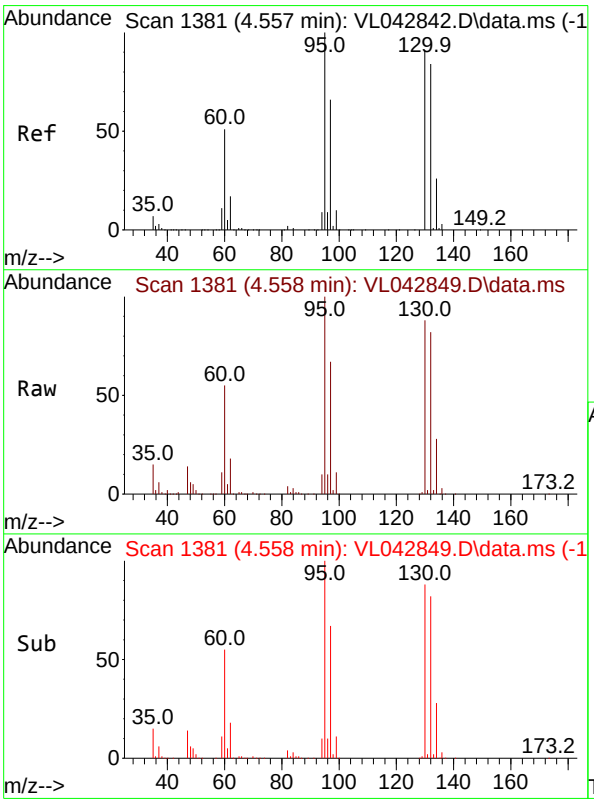
#37
1,2-Dichloroethane
Concen: 9.991 ppbv
RT: 3.224 min Scan# 9
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Tgt Ion: 62 Resp: 187160

Ion	Ratio	Lower	Upper
62	100		
98	7.2	5.9	8.9

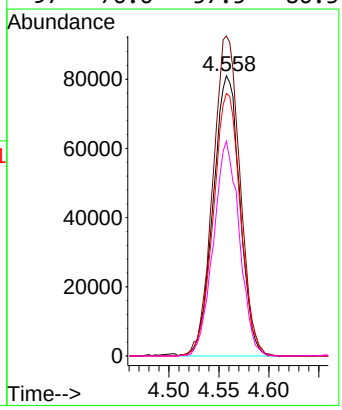


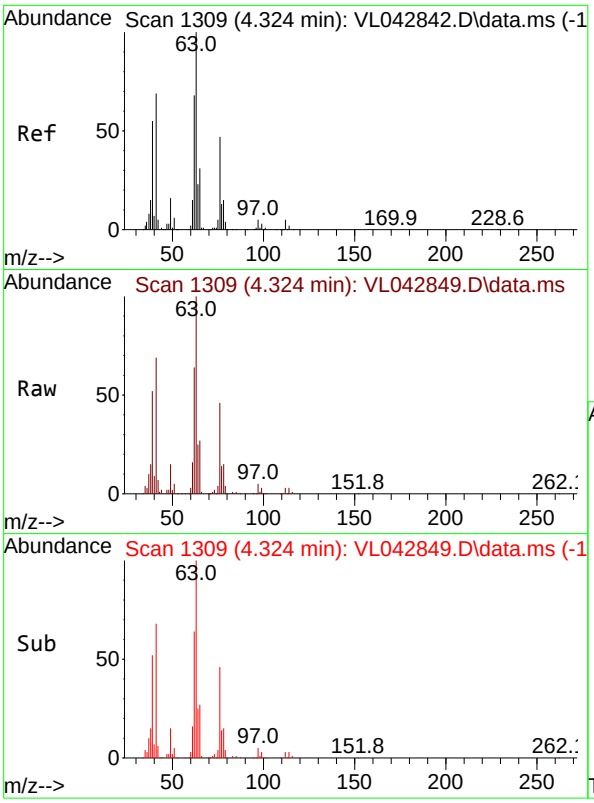


#38
Trichloroethene
Concen: 9.202 ppbv
RT: 4.558 min Scan# 1381
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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



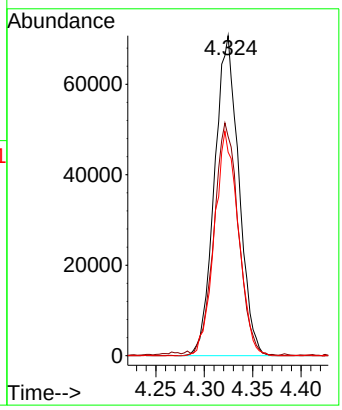


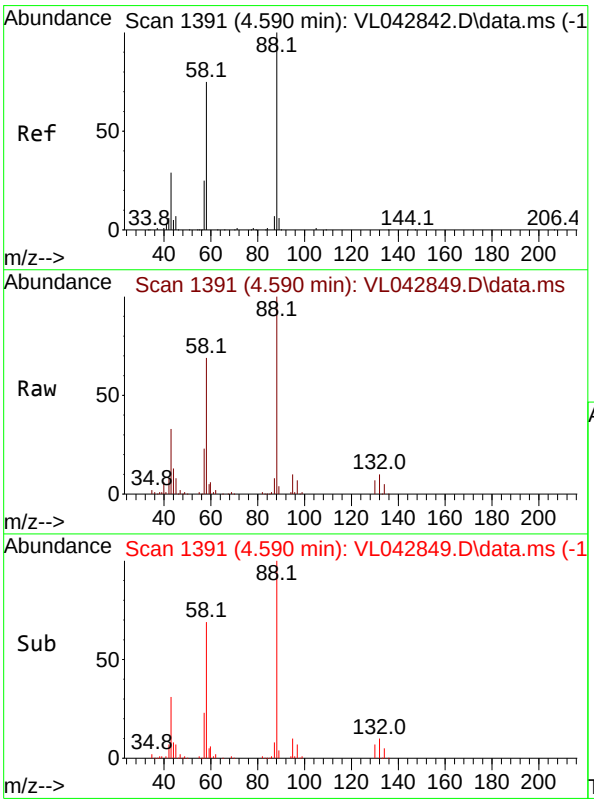
#39
1,2-Dichloropropane
Concen: 9.436 ppbv
RT: 4.324 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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

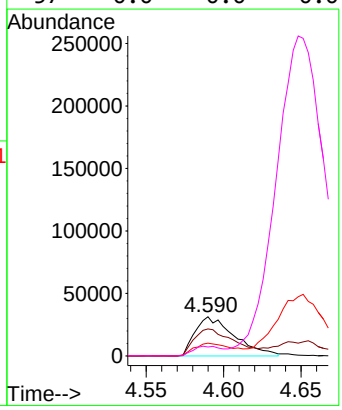


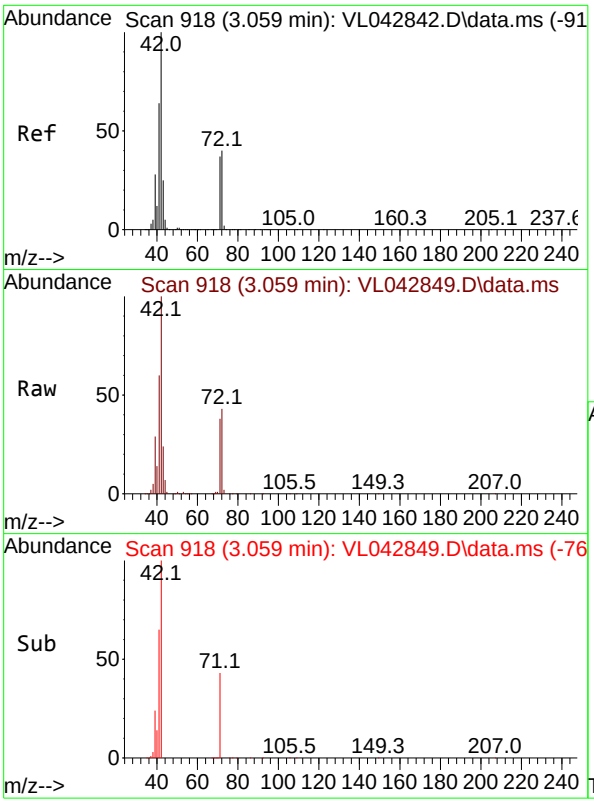


#40
1,4-Dioxane
Concen: 8.879 ppbv
RT: 4.590 min Scan# 1391
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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



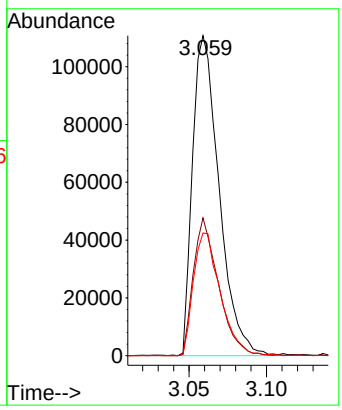


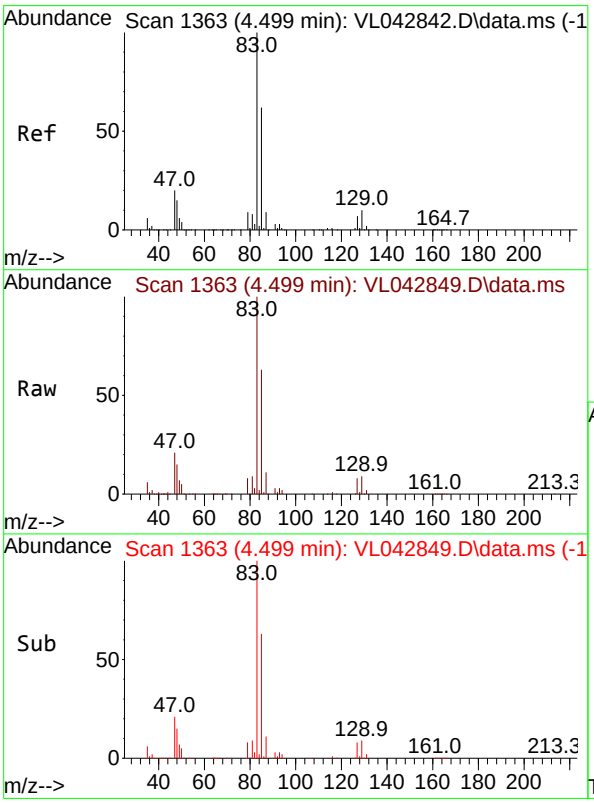
#41
Tetrahydrofuran
Concen: 9.372 ppbv
RT: 3.059 min Scan# 91
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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

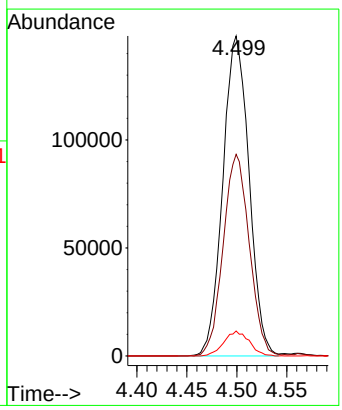


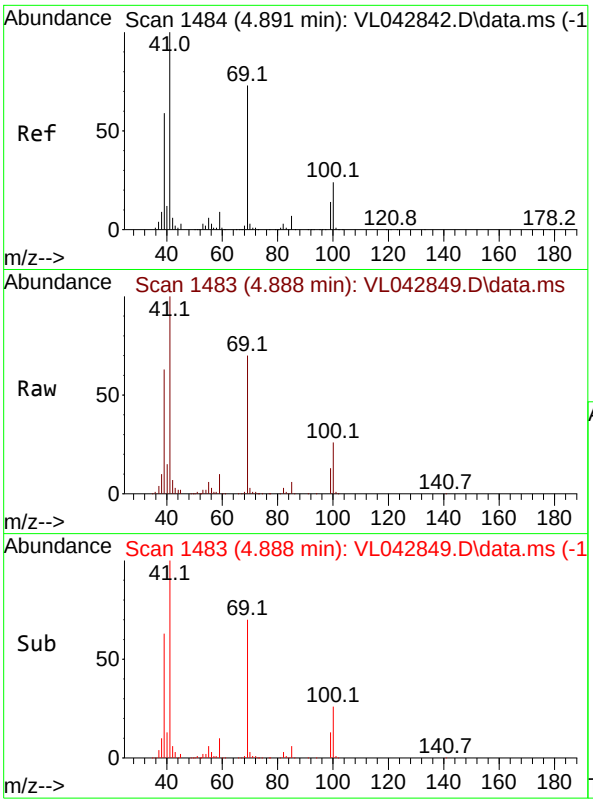


#42
Bromodichloromethane
Concen: 9.678 ppbv
RT: 4.499 min Scan# 1363
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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



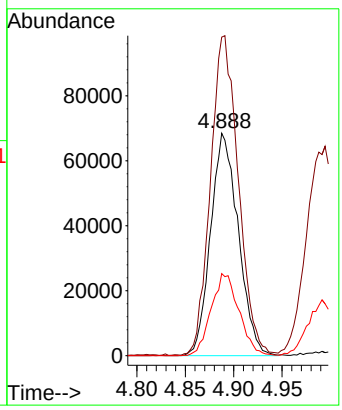


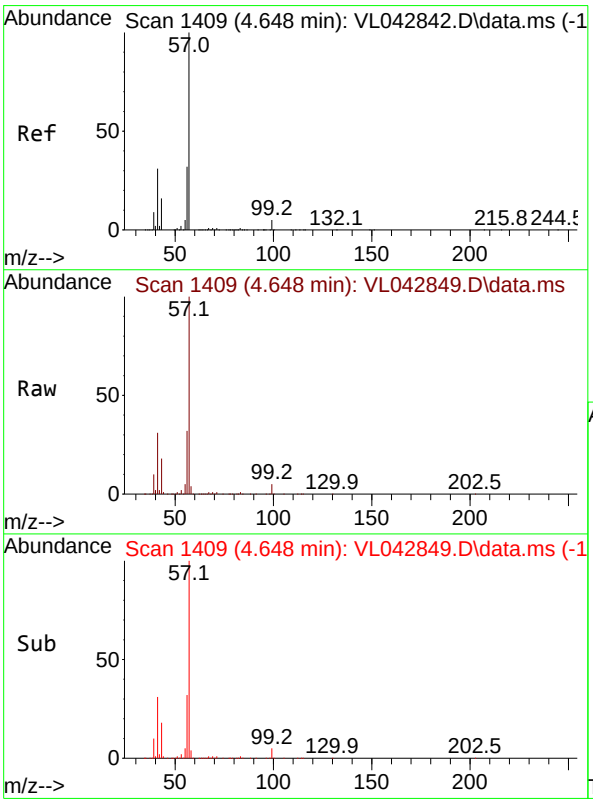
#43
Methyl Methacrylate
Concen: 9.229 ppbv
RT: 4.888 min Scan# 14
Delta R.T. -0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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

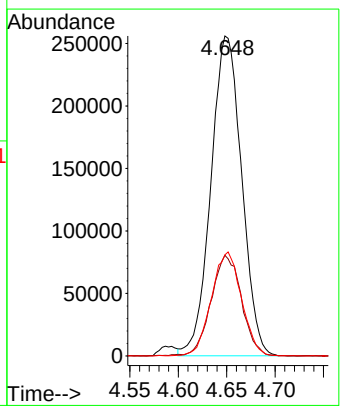


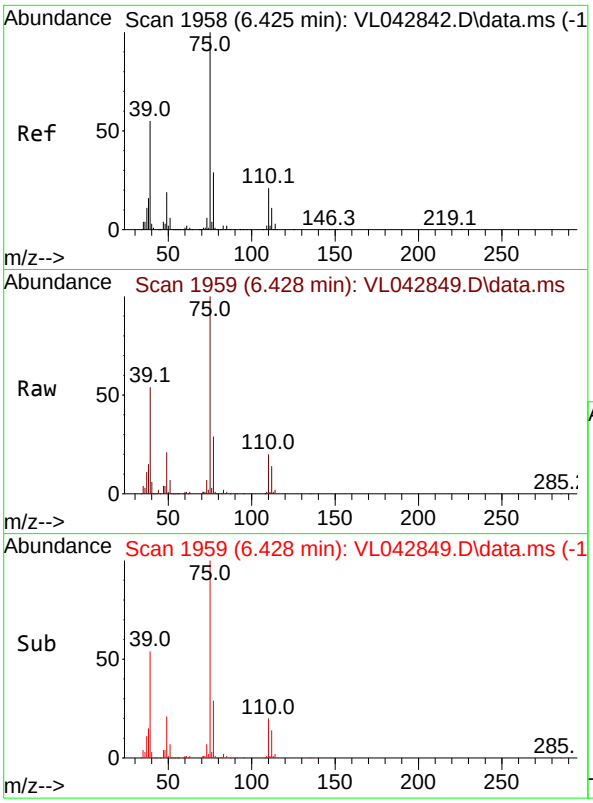


#44
2,2,4-Trimethylpentane
Concen: 9.290 ppbv
RT: 4.648 min Scan# 1409
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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



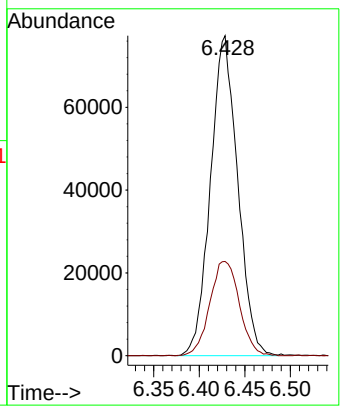


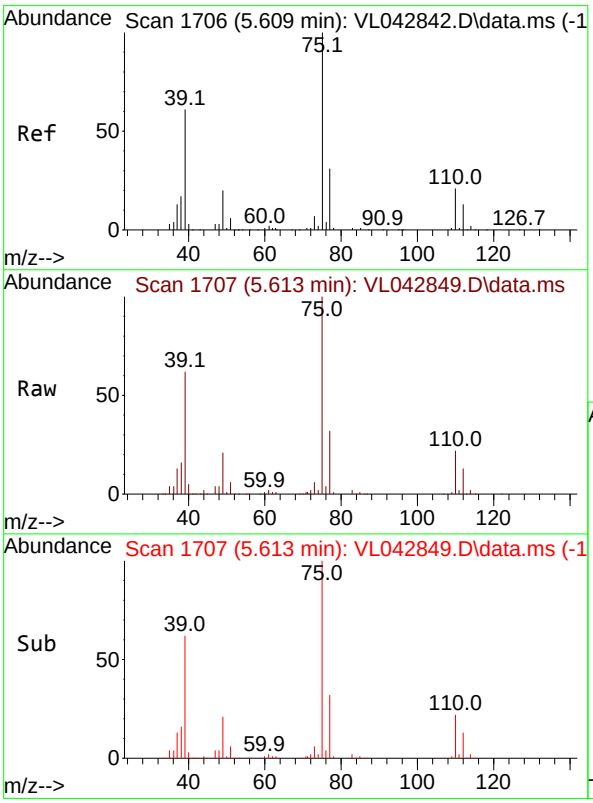
#45
t-1,3-Dichloropropene
Concen: 9.645 ppbv
RT: 6.428 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Tgt Ion: 75 Resp: 160784

Ion	Ratio	Lower	Upper
75	100		
77	29.5	23.8	35.6

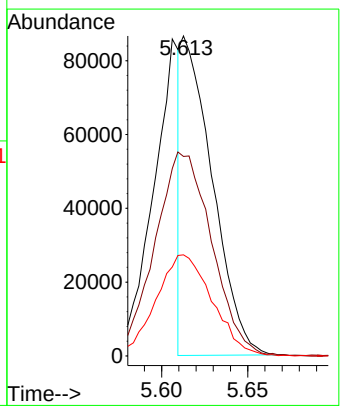


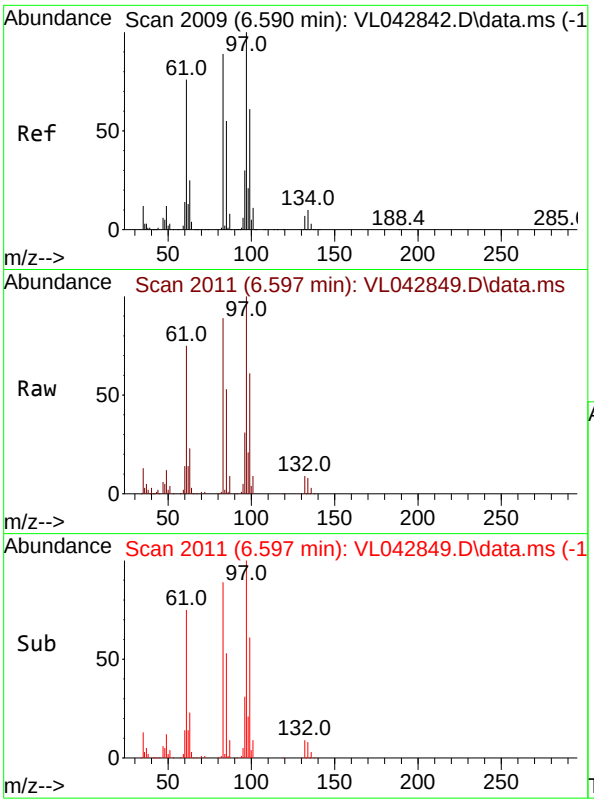


#46
cis-1,3-Dichloropropene
Concen: 5.200 ppbv
RT: 5.613 min Scan# 1707
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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



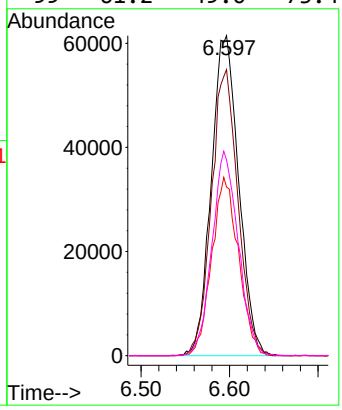


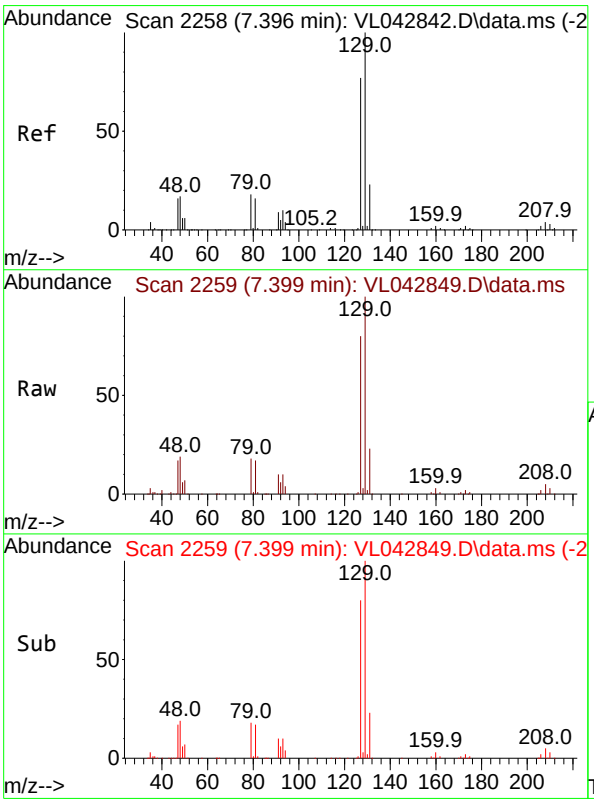
#47
1,1,2-Trichloroethane
Concen: 9.553 ppbv
RT: 6.597 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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

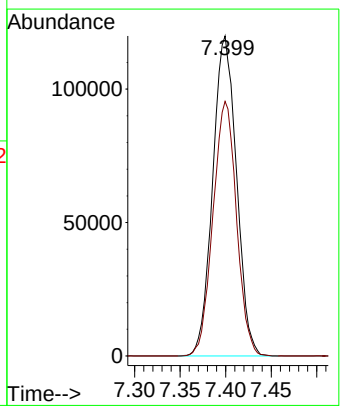


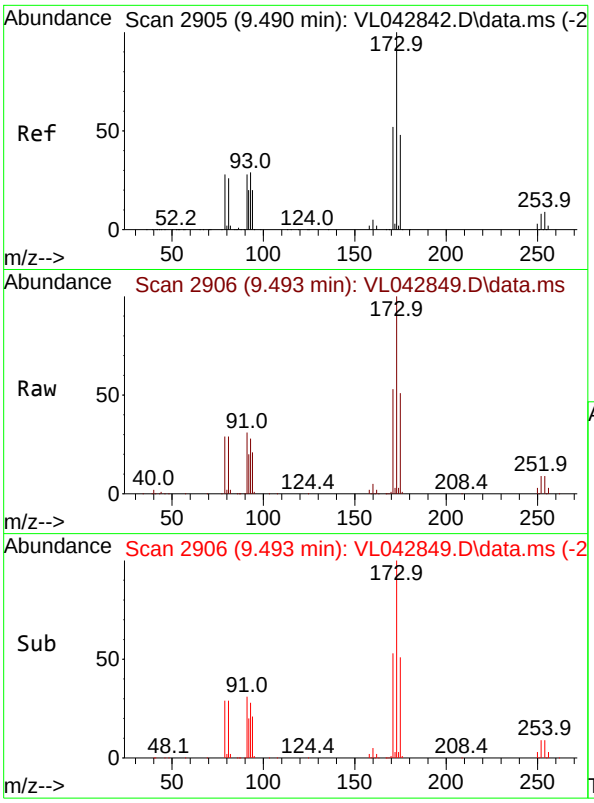


#48
Dibromochloromethane
Concen: 9.708 ppbv
RT: 7.399 min Scan# 2259
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion:129 Resp: 217970

Ion	Ratio	Lower	Upper
129	100		
127	78.5	39.4	118.2



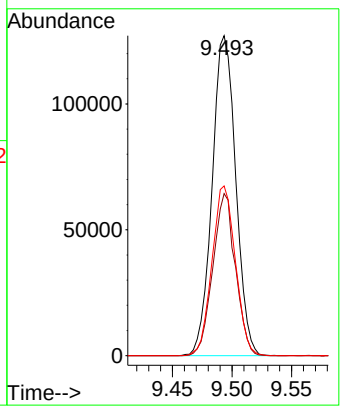


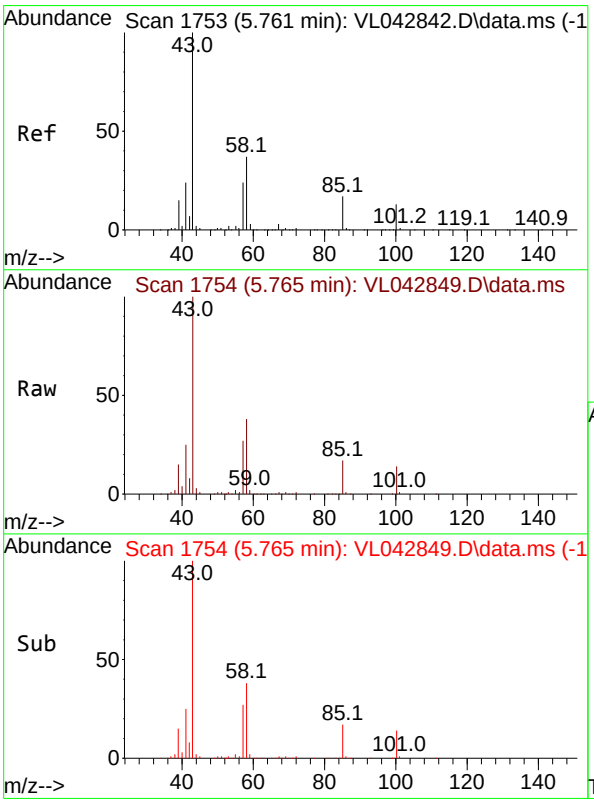
#49
Bromoform
Concen: 9.446 ppbv
RT: 9.493 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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

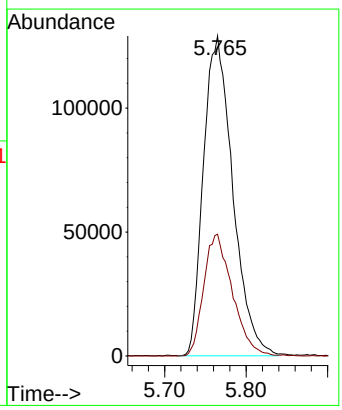


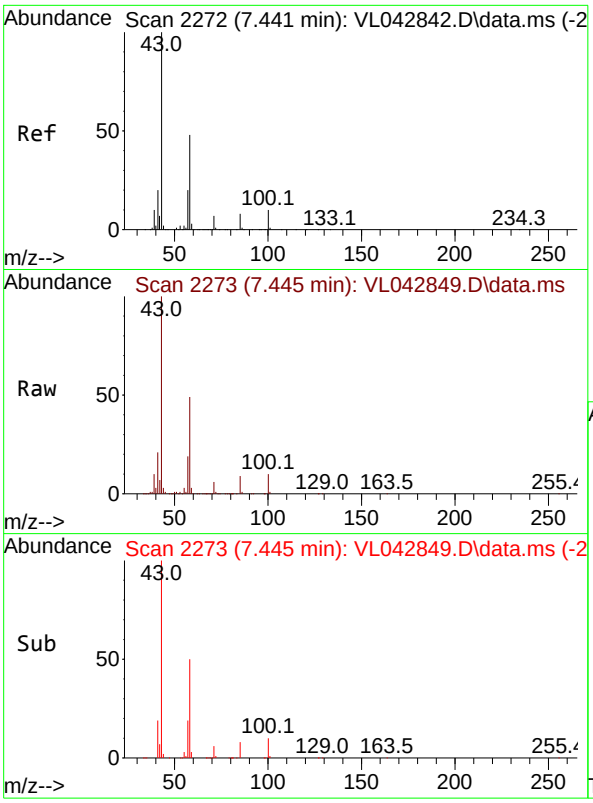


#50
4-Methyl-2-Pentanone
Concen: 9.430 ppbv
RT: 5.765 min Scan# 1754
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 43 Resp: 322264

Ion	Ratio	Lower	Upper
43	100		
58	37.3	29.8	44.8



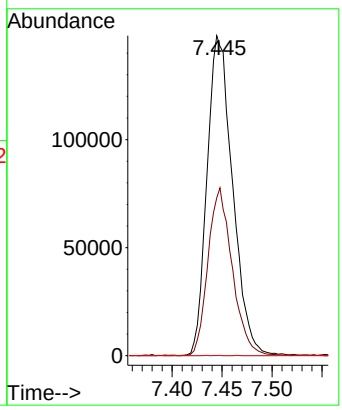


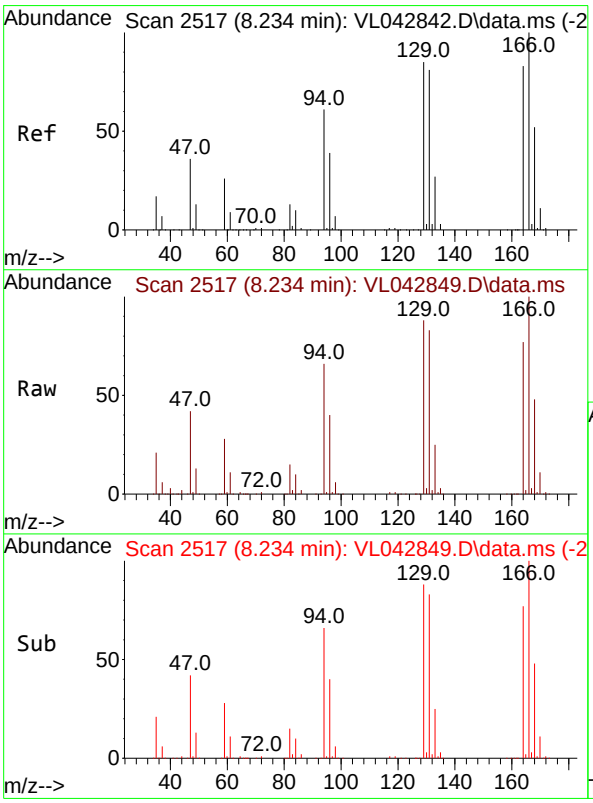
#51
2-Hexanone
Concen: 9.791 ppbv
RT: 7.445 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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#

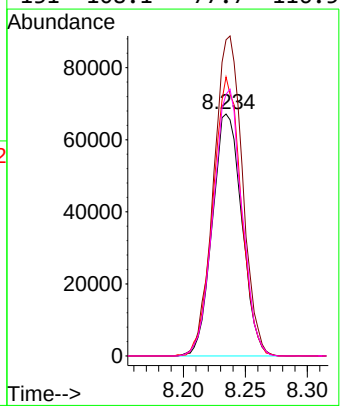


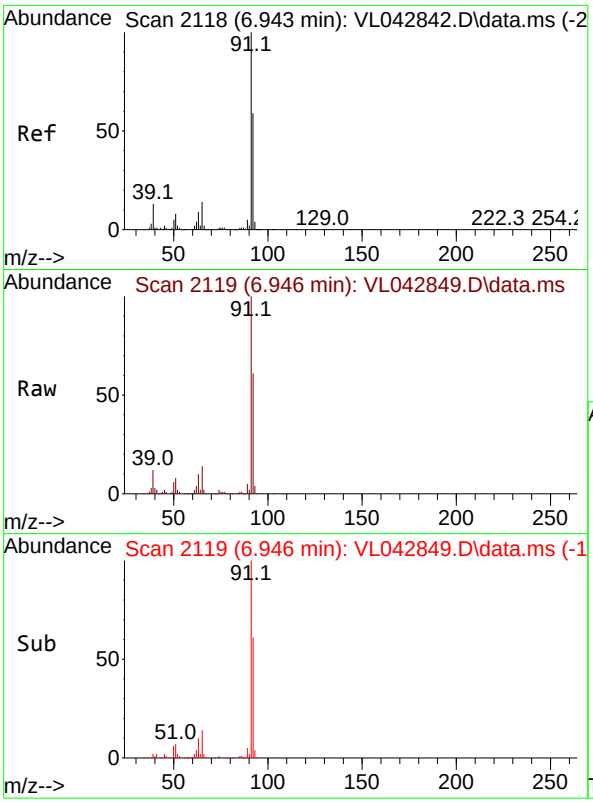


#52
Tetrachloroethene
Concen: 8.544 ppbv
RT: 8.234 min Scan# 2517
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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



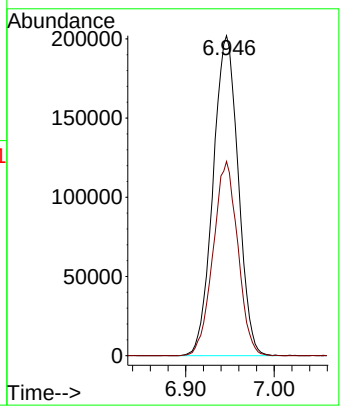


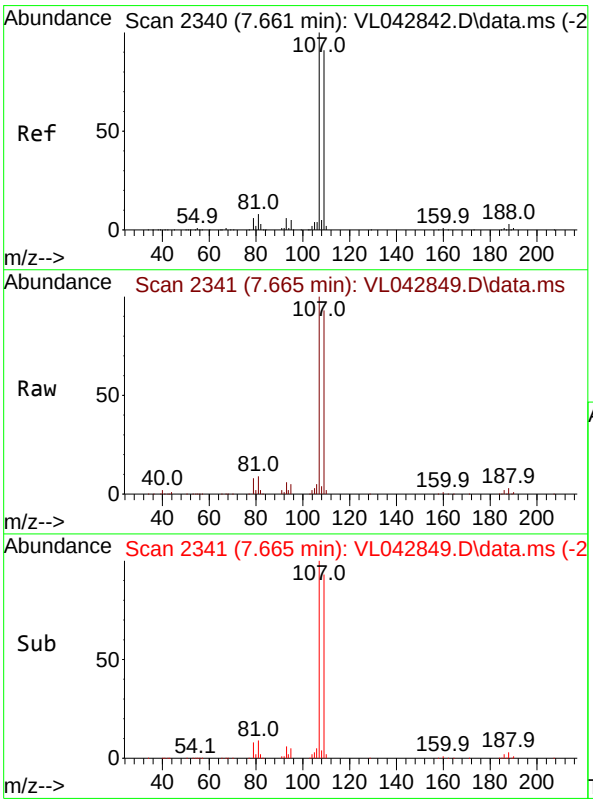
#53
Toluene
Concen: 9.340 ppbv
RT: 6.946 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Tgt Ion: 91 Resp: 398138

Ion	Ratio	Lower	Upper
91	100		
92	59.7	47.8	71.6

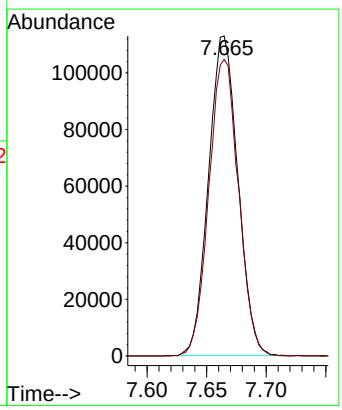


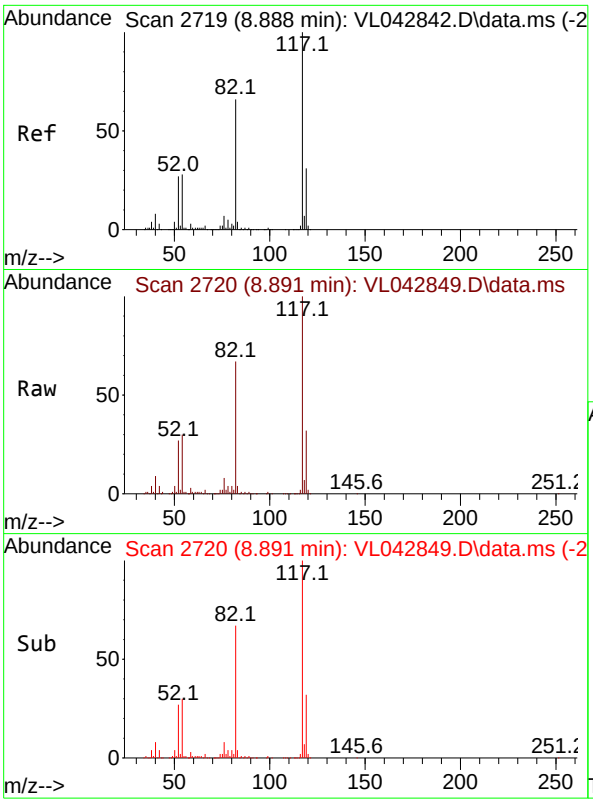


#54
1,2-Dibromoethane
Concen: 9.535 ppbv
RT: 7.665 min Scan# 2341
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion:107 Resp: 193340

Ion	Ratio	Lower	Upper
107	100		
109	92.7	72.5	108.7



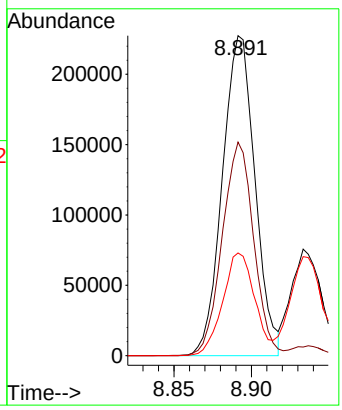


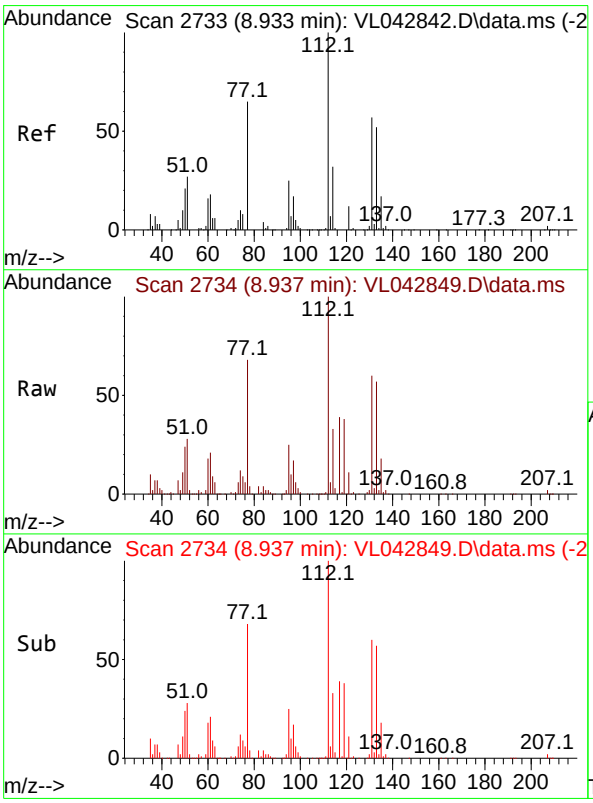
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.891 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Tgt Ion:117 Resp: 333493

Ion	Ratio	Lower	Upper
117	100		
82	67.3	54.6	81.8
119	31.8	25.9	38.9

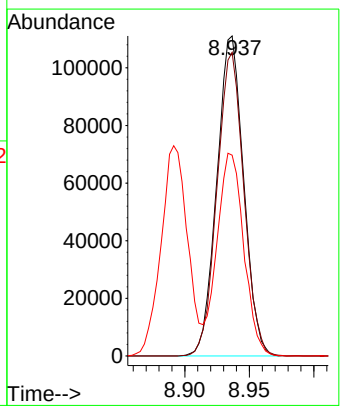


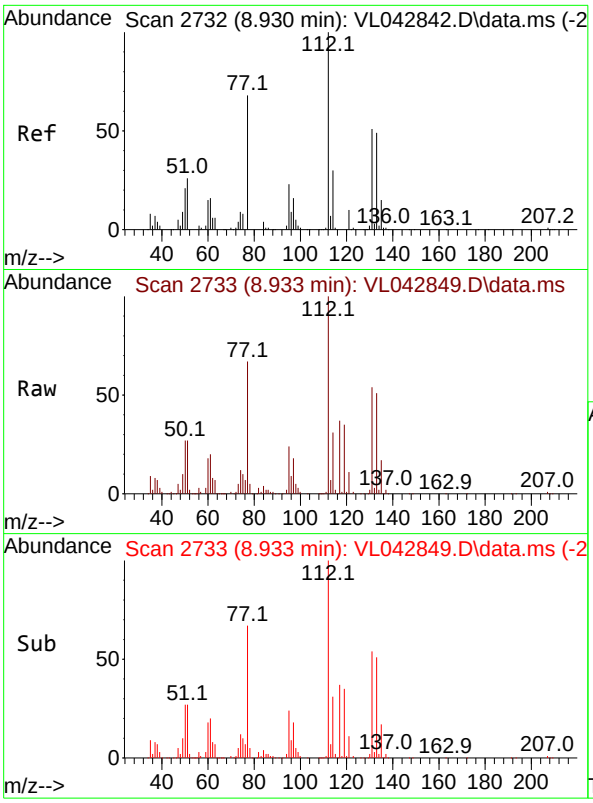


#56
1,1,1,2-Tetrachloroethane
Concen: 9.291 ppbv
RT: 8.937 min Scan# 2734
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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



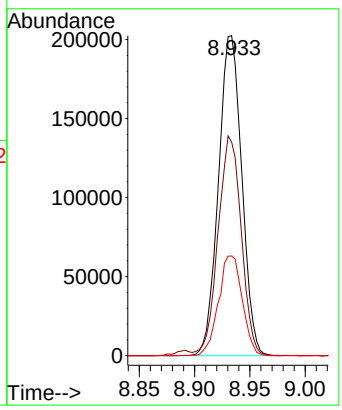


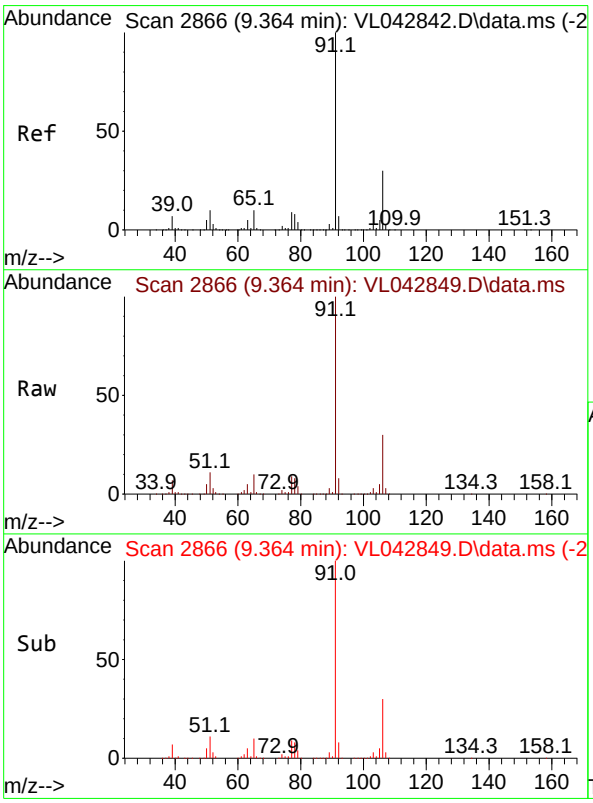
#57
Chlorobenzene
Concen: 9.378 ppbv
RT: 8.933 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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

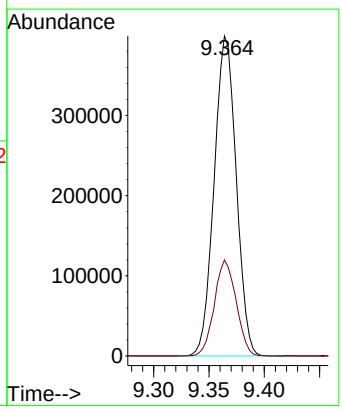


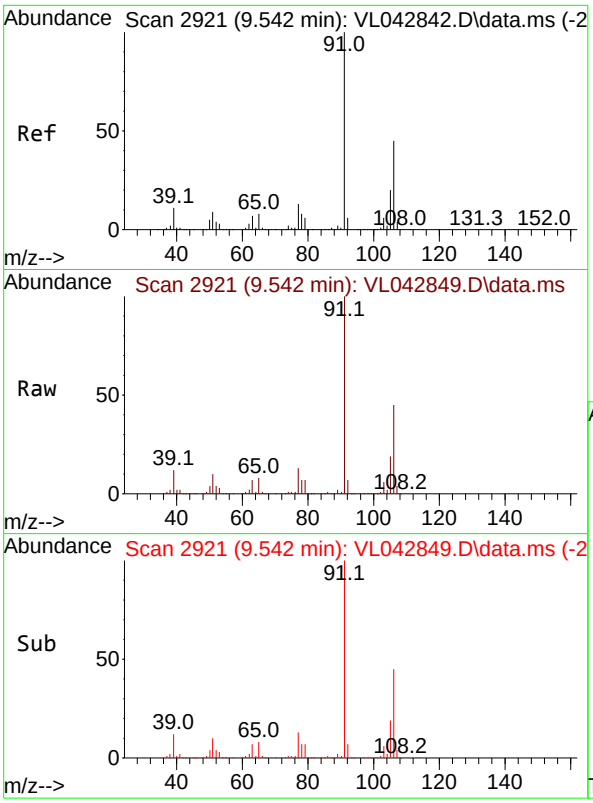


#58
Ethyl Benzene
Concen: 9.414 ppbv
RT: 9.364 min Scan# 2866
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 91 Resp: 554015

Ion	Ratio	Lower	Upper
91	100		
106	30.0	23.9	35.9



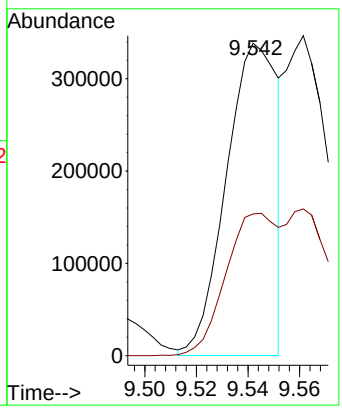


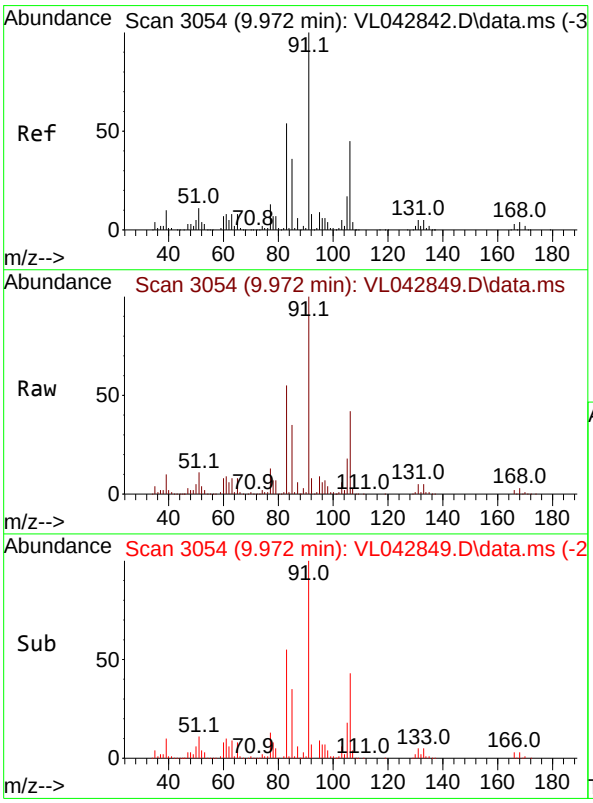
#59
m/p-Xylene
Concen: 10.029 ppbv
RT: 9.542 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Tgt Ion: 91 Resp: 462620

Ion	Ratio	Lower	Upper
91	100		
106	0.0	0.0	0.0

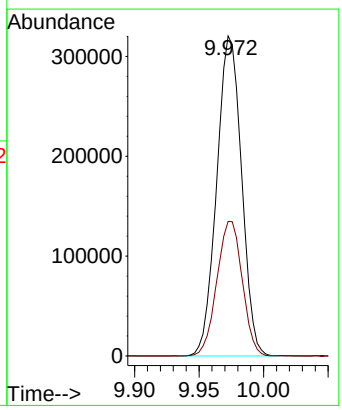


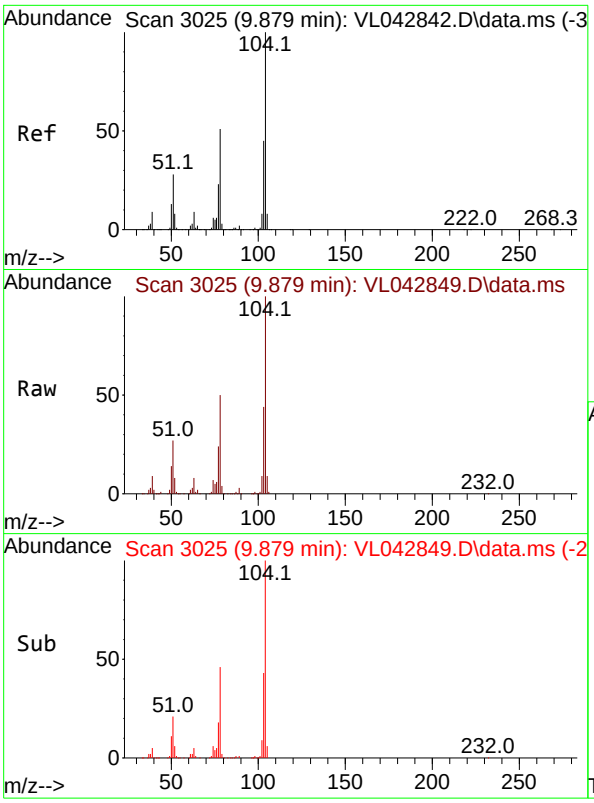


#60
o-Xylene
Concen: 9.239 ppbv
RT: 9.972 min Scan# 3054
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion: 91 Resp: 428721

Ion	Ratio	Lower	Upper
91	100		
106	43.0	21.8	65.4



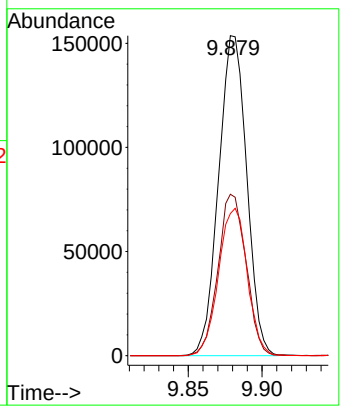


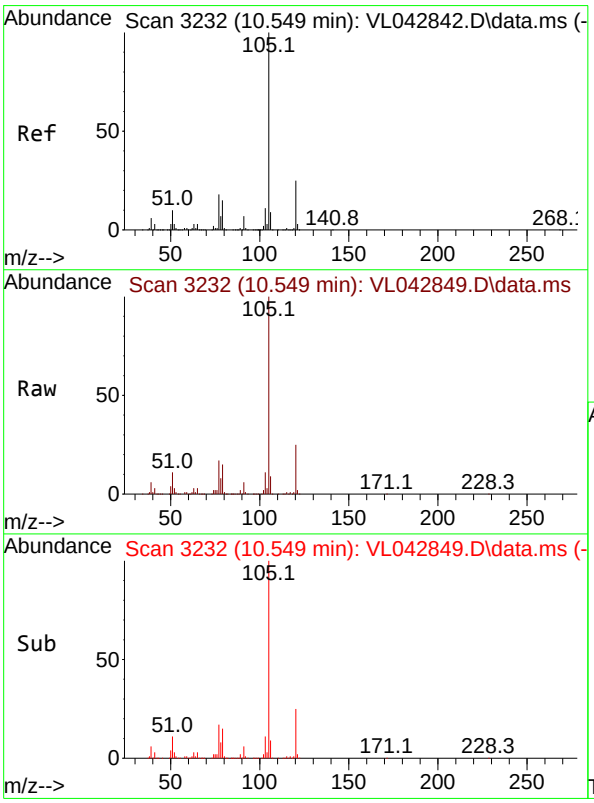
#61
Styrene
Concen: 9.377 ppbv
RT: 9.879 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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

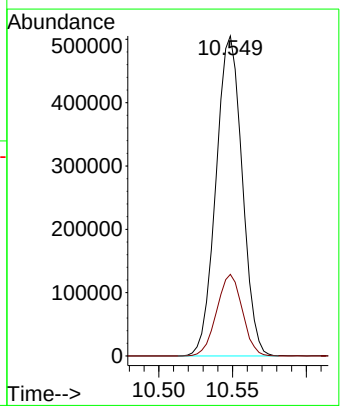


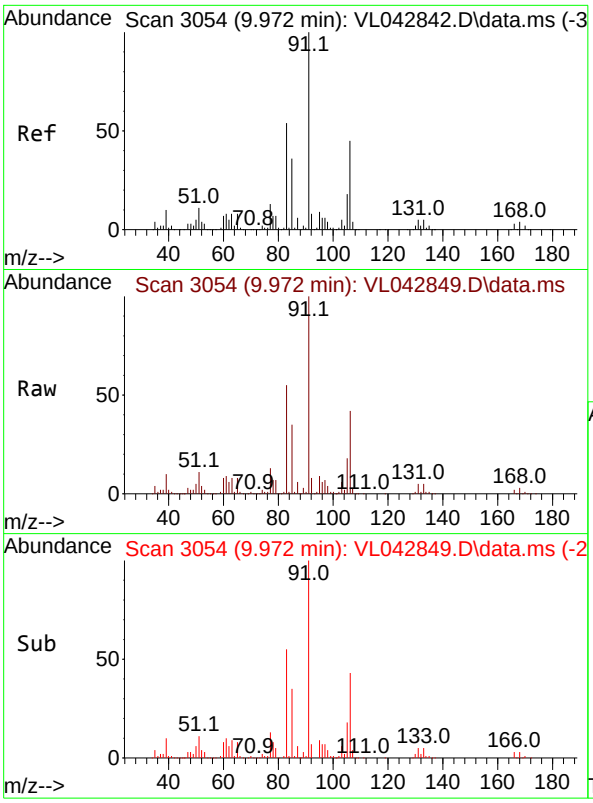


#62
Isopropylbenzene
Concen: 9.206 ppbv
RT: 10.549 min Scan# 3232
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion:105 Resp: 624287

Ion	Ratio	Lower	Upper
105	100		
120	24.9	20.6	30.8



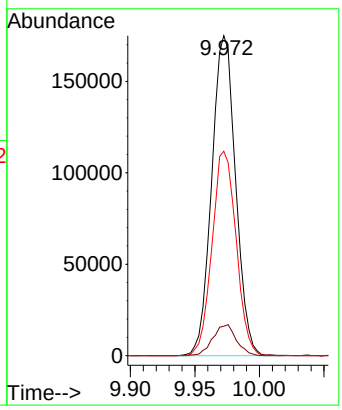


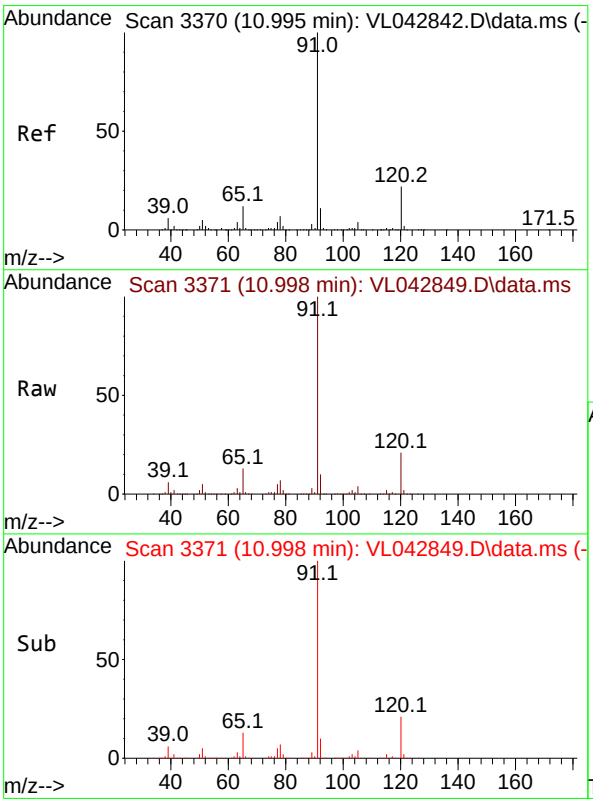
#63
1,1,2,2-Tetrachloroethane
Concen: 8.826 ppbv
RT: 9.972 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Tgt Ion: 83 Resp: 225237

Ion	Ratio	Lower	Upper
83	100		
131	9.5	4.8	14.3
85	64.4	32.3	96.8

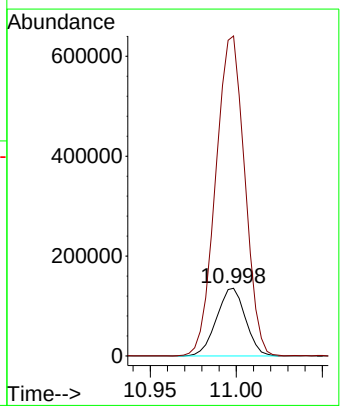


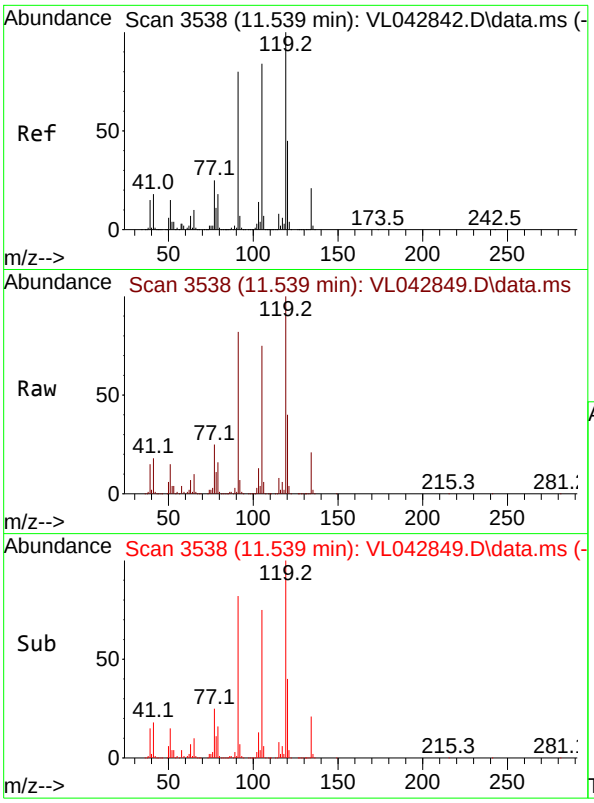


#64
n-propylbenzene
Concen: 9.145 ppbv
RT: 10.998 min Scan# 3371
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Tgt Ion:120 Resp: 158234

Ion	Ratio	Lower	Upper
120	100		
91	476.9	375.8	563.6



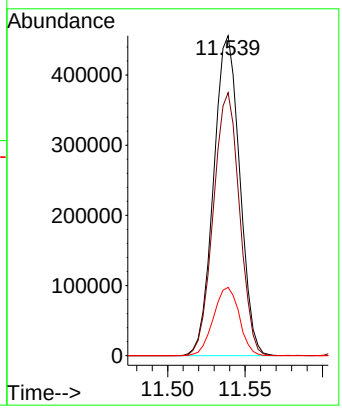


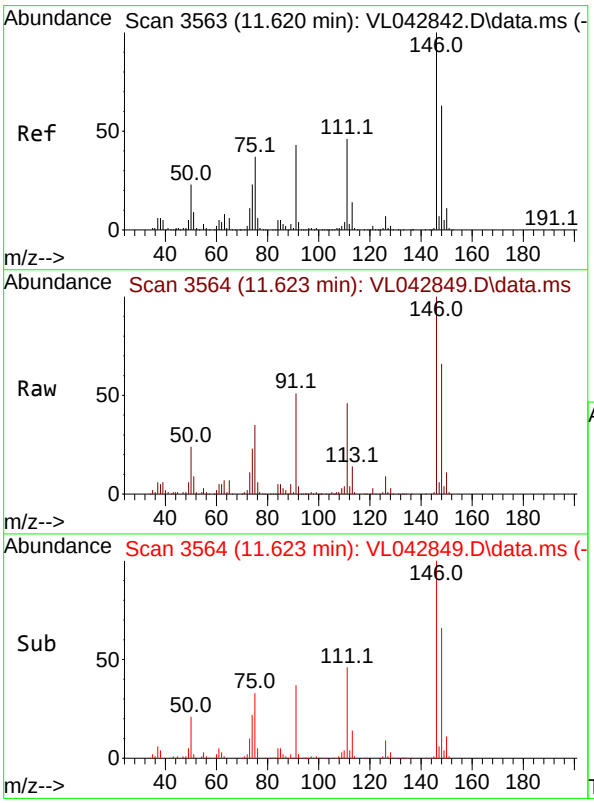
#65
tert-Butylbenzene
Concen: 8.946 ppbv
RT: 11.539 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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

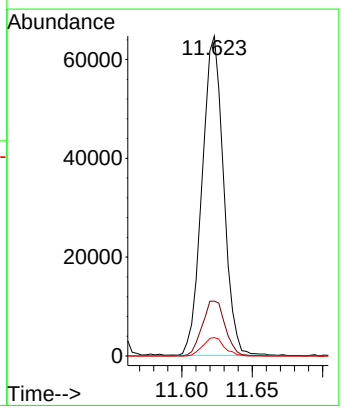


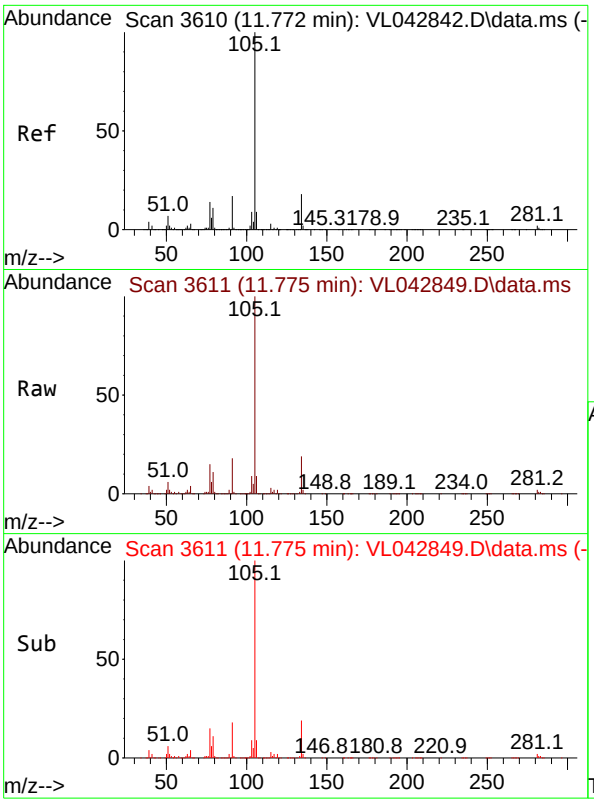


#66
Benzyl Chloride
Concen: 9.031 ppbv
RT: 11.623 min Scan# 3564
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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



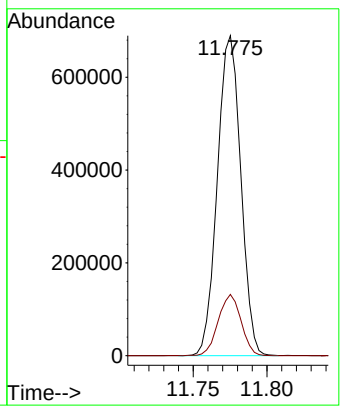


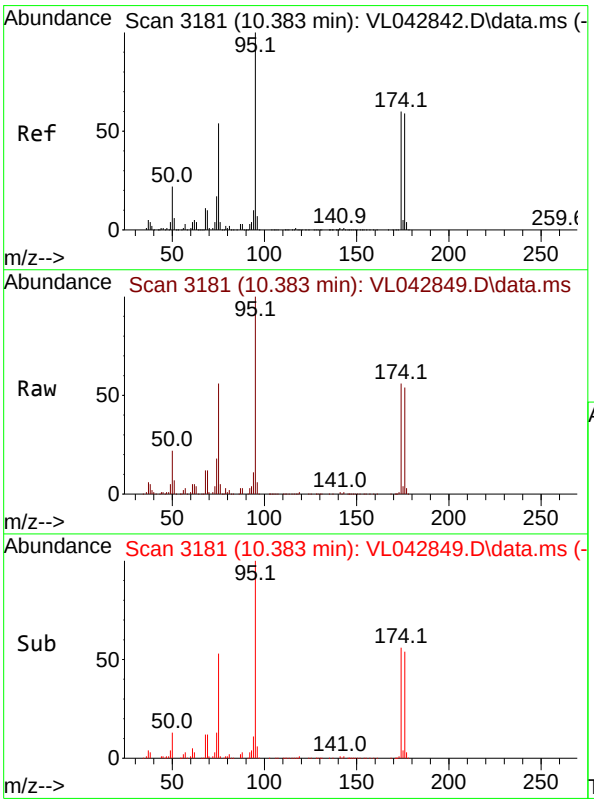
#67
sec-Butylbenzene
Concen: 9.088 ppbv
RT: 11.775 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Tgt Ion:105 Resp: 762602

Ion	Ratio	Lower	Upper
105	100		
134	18.6	14.9	22.3

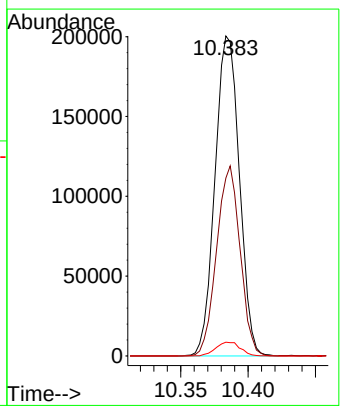


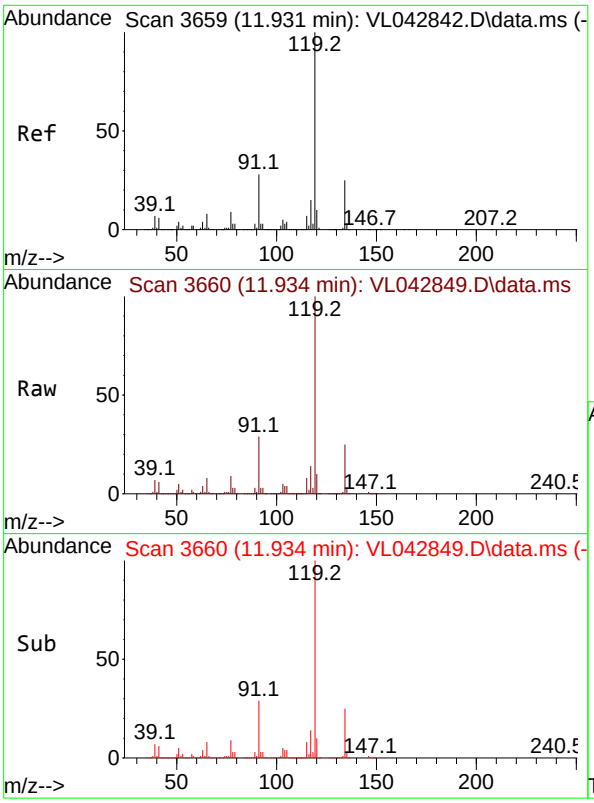


#68
1-Bromo-4-Fluorobenzene
Concen: 10.086 ppbv
RT: 10.383 min Scan# 3181
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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



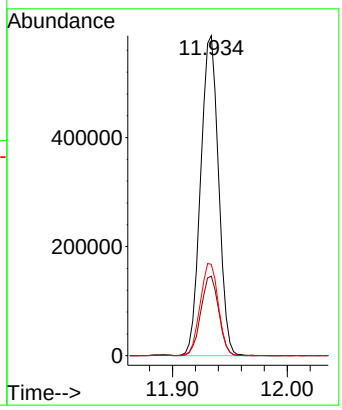


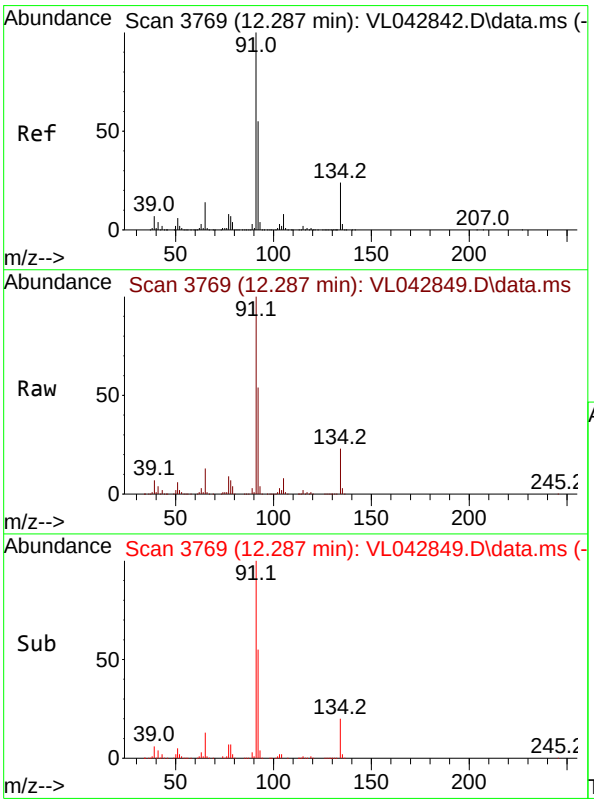
#69
p-Isopropyltoluene
Concen: 8.810 ppbv
RT: 11.934 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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

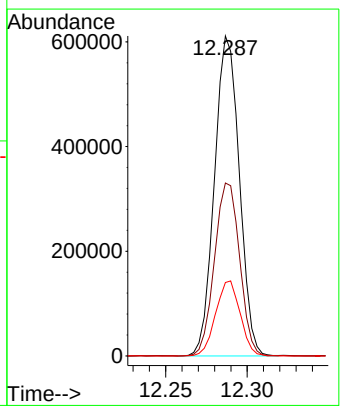


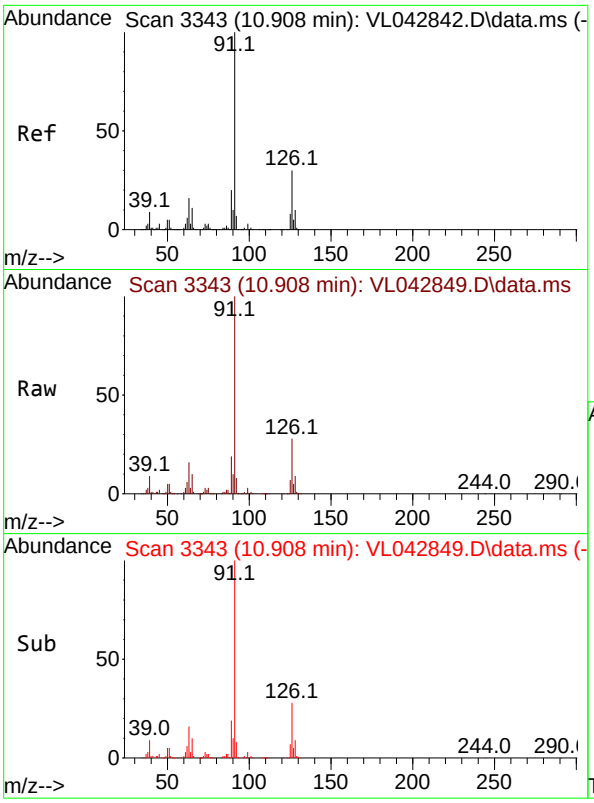


#70
n-Butylbenzene
Concen: 9.062 ppbv
RT: 12.287 min Scan# 3769
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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



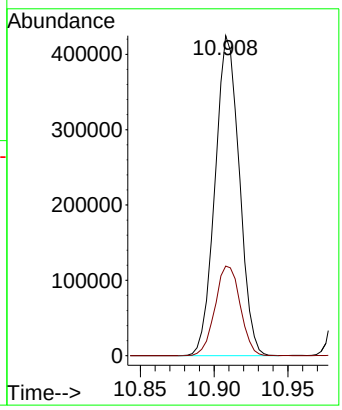


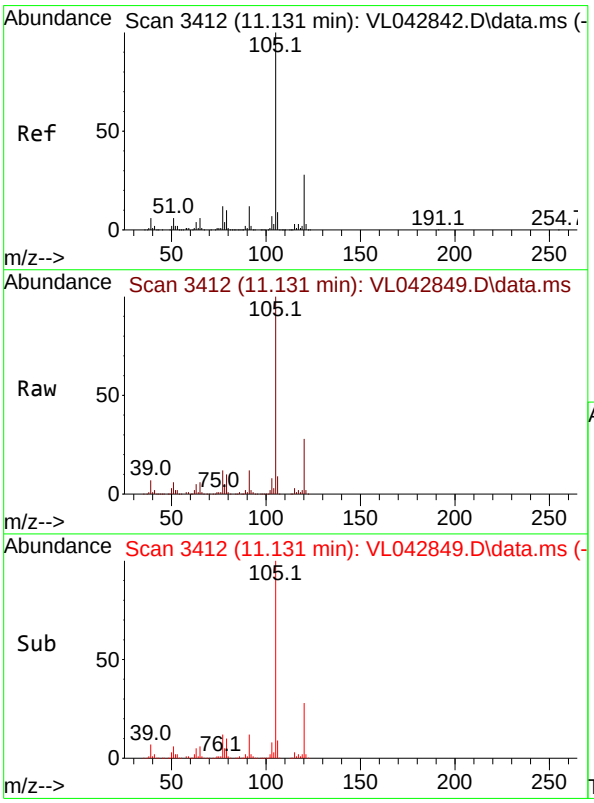
#71
2-Chlorotoluene
Concen: 9.214 ppbv
RT: 10.908 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Tgt Ion: 91 Resp: 485171

Ion	Ratio	Lower	Upper
91	100		
126	29.1	12.0	47.8

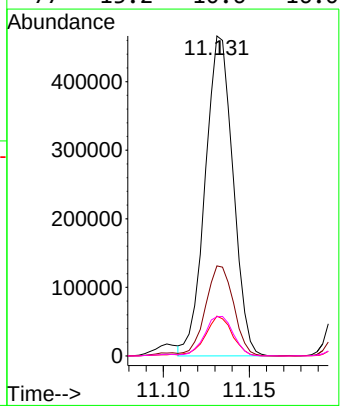


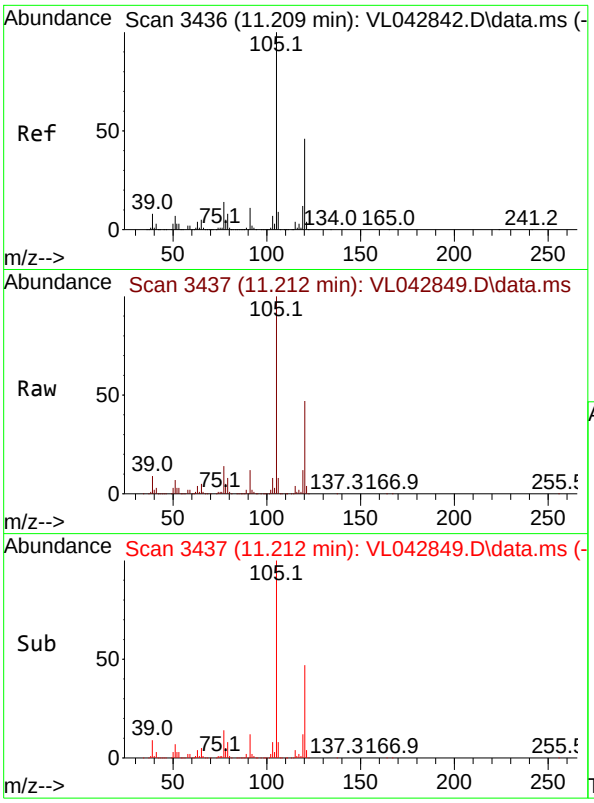


#72
4-Ethyltoluene
Concen: 9.338 ppbv
RT: 11.131 min Scan# 3412
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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



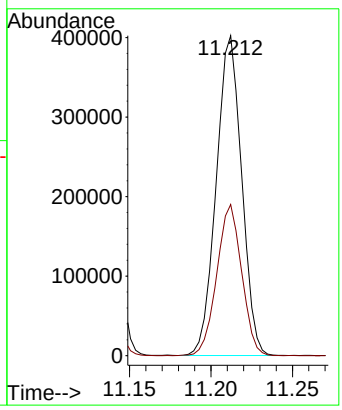


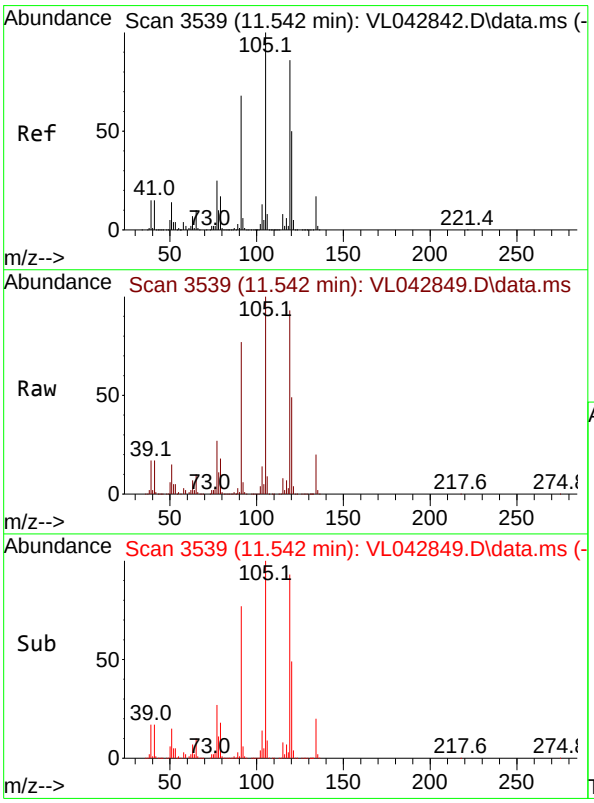
#73
1,3,5-Trimethylbenzene
Concen: 9.108 ppbv
RT: 11.212 min Scan# 34
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL081325

Tgt Ion:105 Resp: 435705

Ion	Ratio	Lower	Upper
105	100		
120	47.2	36.6	54.8

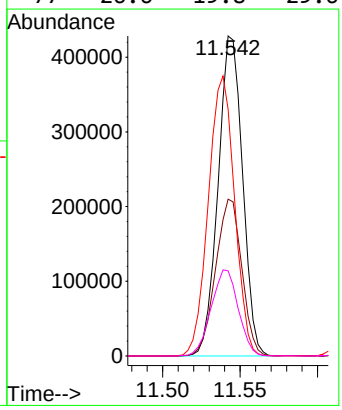


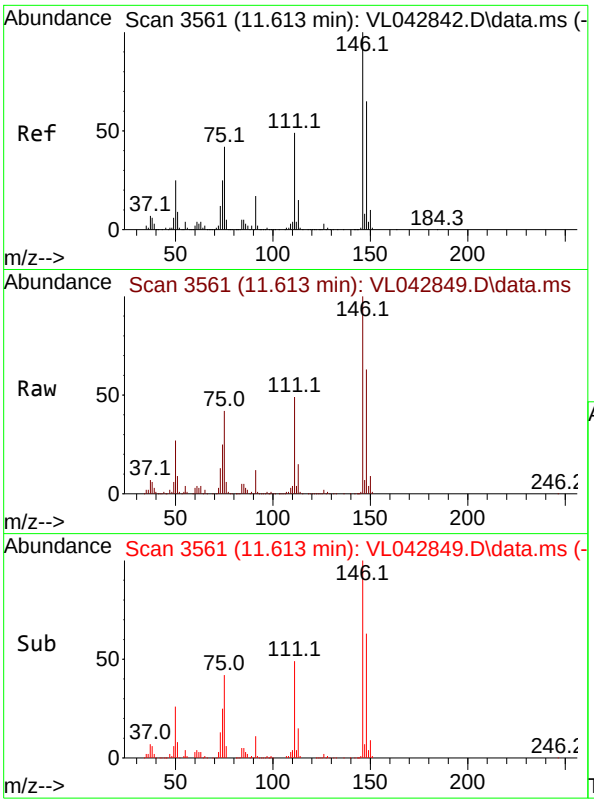


#74
1,2,4-Trimethylbenzene
Concen: 8.943 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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



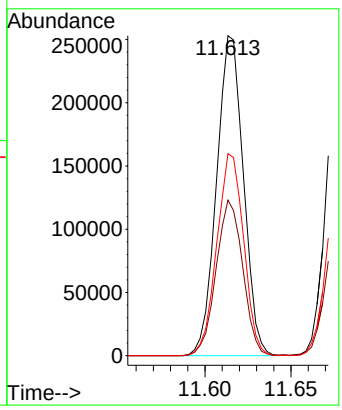


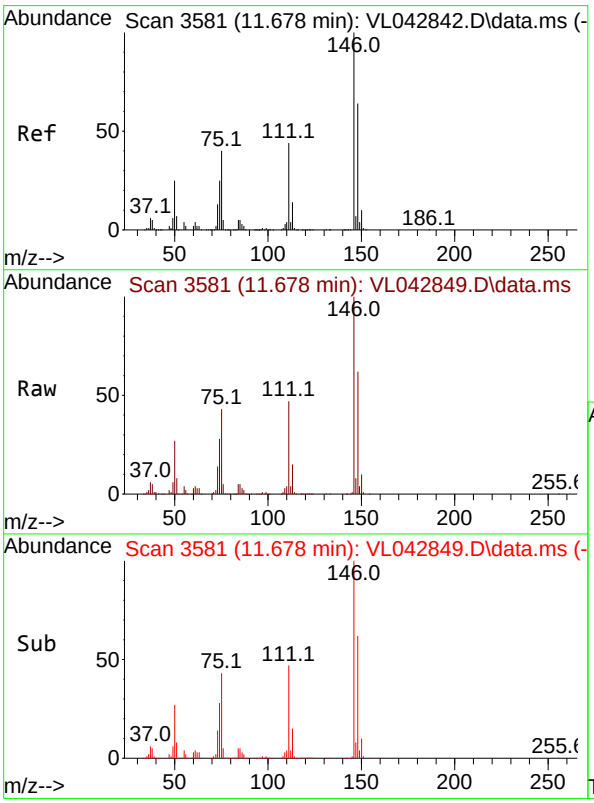
#75
1,3-Dichlorobenzene
Concen: 9.209 ppbv
RT: 11.613 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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

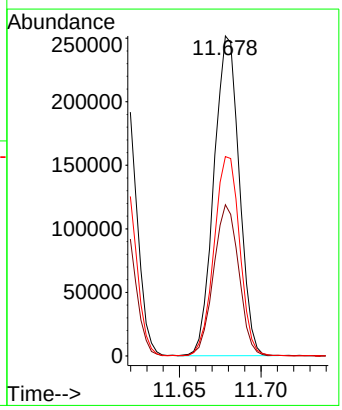


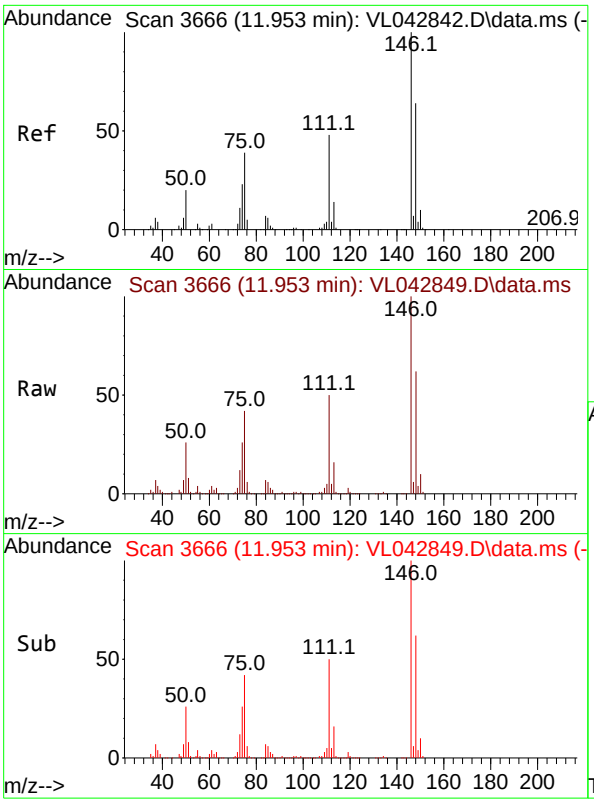


#76
1,4-Dichlorobenzene
Concen: 8.976 ppbv
RT: 11.678 min Scan# 3581
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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



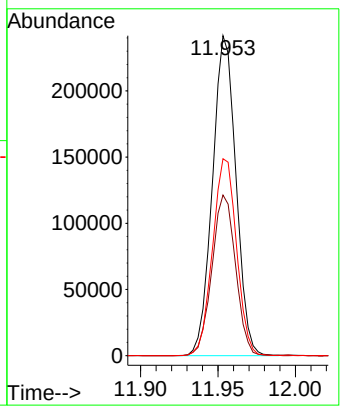


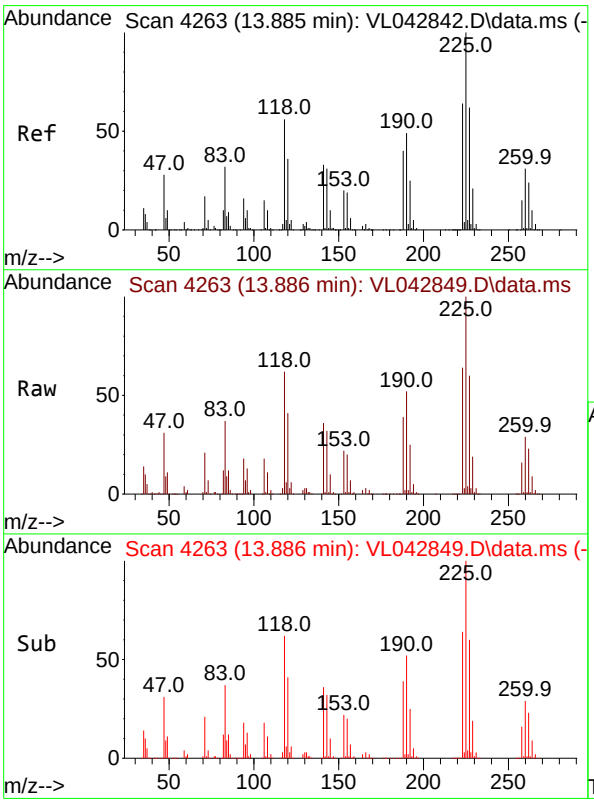
#77
1,2-Dichlorobenzene
Concen: 8.736 ppbv
RT: 11.953 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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

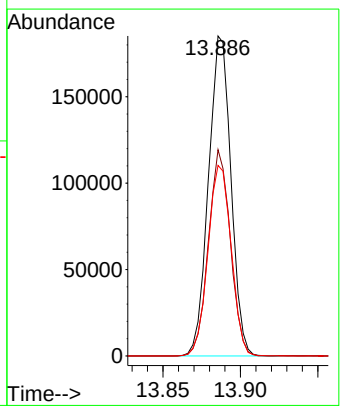


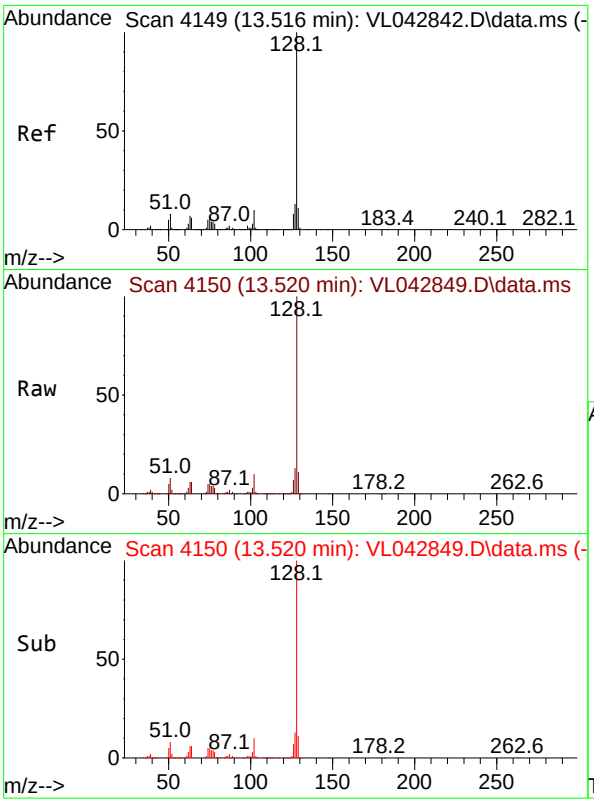


#78
Hexachloro-1,3-Butadiene
Concen: 7.778 ppbv
RT: 13.886 min Scan# 4263
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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



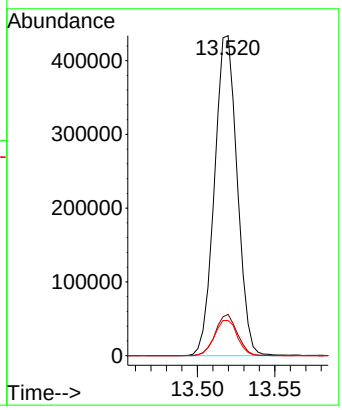


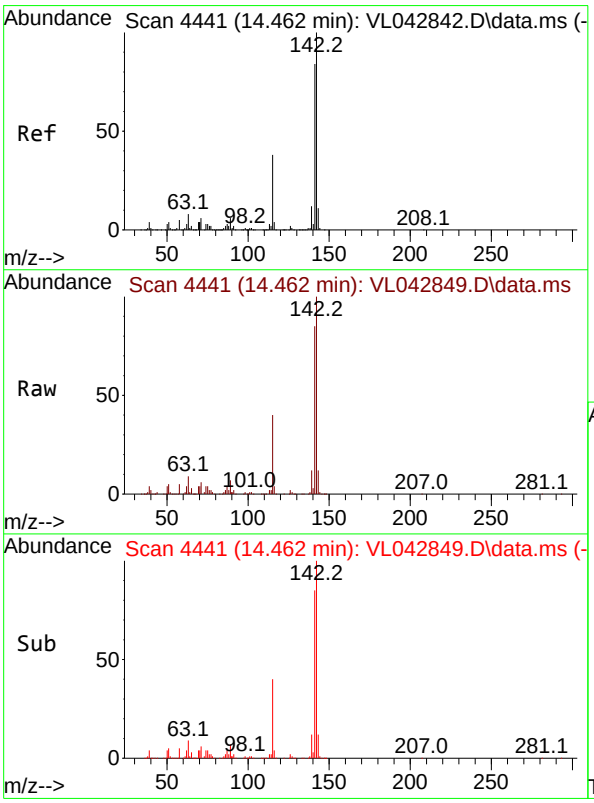
#79
Naphthalene
Concen: 9.284 ppbv
RT: 13.520 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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

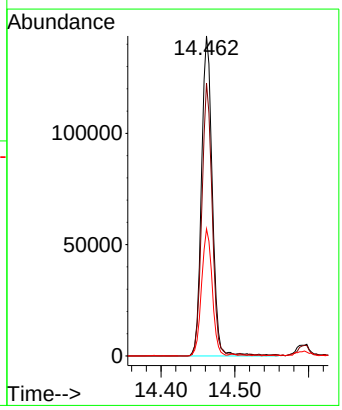


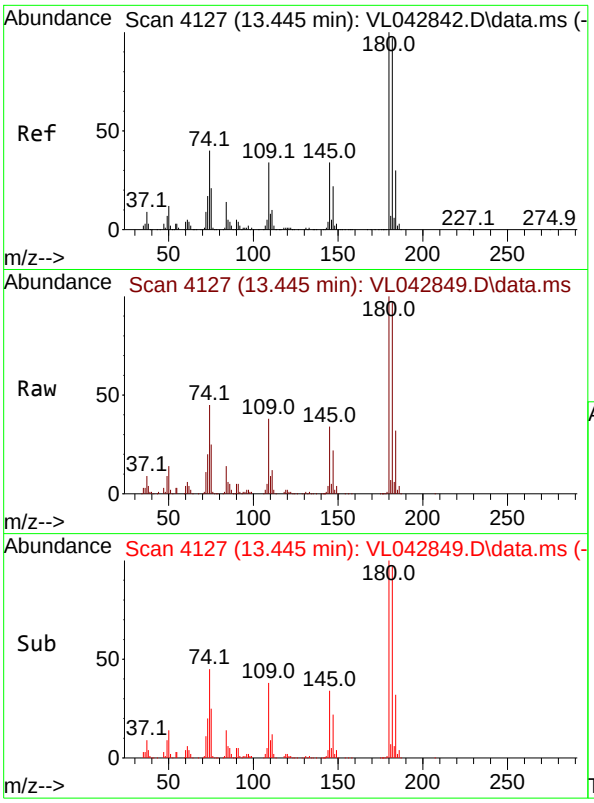


#80
Naphthalene,2-methyl-
Concen: 8.188 ppbv
RT: 14.462 min Scan# 4441
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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



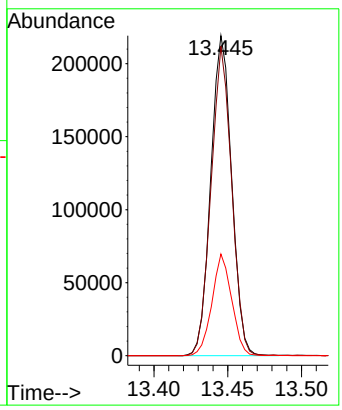


#81
1,2,4-Trichlorobenzene
Concen: 9.016 ppbv
RT: 13.445 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042849.D
Acq: 13 Aug 2025 12:56

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



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
Data File : VL042900.D
Acq On : 08 Sep 2025 11:05
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Quant Time: Sep 09 00:52:45 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 : Tue Sep 09 00:52:26 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.777	49	126678	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.943	114	333606	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.869	117	282770	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.364	95	222314	10.483	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 104.800%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.492	85	195136	10.511	ppbv	100
3) Chlorodifluoromethane	1.470	51	223887	10.910	ppbv	98
4) Chloromethane	1.528	50	74830	9.988	ppbv	99
5) Vinyl Chloride	1.577	62	70899	9.609	ppbv	99
6) Bromomethane	1.664	94	28498	9.659	ppbv	99
7) Chloroethane	1.700	64	28496	9.889	ppbv	89
8) Dichlorotetrafluoroethane	1.551	85	158303	10.420	ppbv	96
9) Propene	1.476	41	88702	10.009	ppbv	99
10) Heptane	4.959	43	234952	9.898	ppbv	98
11) Trichlorofluoromethane	1.871	101	188309	10.280	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.133	101	147287	10.089	ppbv	96
13) Ethanol	1.716	45	6525	8.052	ppbv	98
14) Bromoethene	1.777	108	53755	10.171	ppbv	99
15) Acetone	1.829	43	145289	8.670	ppbv	98
16) 1,3-Butadiene	1.602	39	70713	9.308	ppbv	100
17) tert-Butyl alcohol	2.033	59	170394	8.574	ppbv	99
18) 1,1-Dichloroethene	2.026	96	63544	9.900	ppbv	94
19) Isopropyl Alcohol	1.881	45	89009	8.893	ppbv	95
20) Methylene Chloride	2.056	84	57698	8.219	ppbv	93
21) Allyl Chloride	2.088	41	114332	9.658	ppbv	94
22) trans-1,2-Dichloroethene	2.331	96	74045	9.971	ppbv	93
23) Vinyl Acetate	2.454	43	228268	9.907	ppbv #	97
24) 1,1-Dichloroethane	2.402	63	152618	10.291	ppbv	99
25) Ethyl Acetate	2.826	43	415386	10.242	ppbv	99
26) Hexane	2.816	57	187779	10.031	ppbv	95
27) Carbon Disulfide	2.143	76	193262	10.608	ppbv	98
28) Methyl tert-Butyl Ether	2.431	73	85774	8.986	ppbv	93
29) Chloroform	2.839	83	281659	10.538	ppbv	98
30) Cyclohexane	3.842	84	153066	9.326	ppbv	96
31) cis-1,2-Dichloroethene	2.713	61	182592	9.765	ppbv	99
32) 1,1,1-Trichloroethane	3.357	97	271429	9.609	ppbv	96
34) 2-Butanone	2.548	43	272735	12.107	ppbv	98
35) Carbon Tetrachloride	3.748	117	269097	11.700	ppbv	99
36) Benzene	3.645	78	366027	11.458	ppbv	97
37) 1,2-Dichloroethane	3.208	62	211728	12.686	ppbv	98
38) Trichloroethene	4.532	130	151915	10.413	ppbv	95
39) 1,2-Dichloropropane	4.299	63	139657	11.970	ppbv	96
40) 1,4-Dioxane	4.561	88	56013	10.096	ppbv #	88
41) Tetrahydrofuran	3.043	42	148990	11.863	ppbv	96
42) Bromodichloromethane	4.473	83	301814	12.136	ppbv	98
43) Methyl Methacrylate	4.859	69	141813	10.776	ppbv	95
44) 2,2,4-Trimethylpentane	4.622	57	631245	11.642	ppbv	99
45) t-1,3-Dichloropropene	6.393	75	154622	10.411	ppbv	98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
Data File : VL042900.D
Acq On : 08 Sep 2025 11:05
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Quant Time: Sep 09 00:52:45 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 : Tue Sep 09 00:52:26 2025
Response via : Initial Calibration

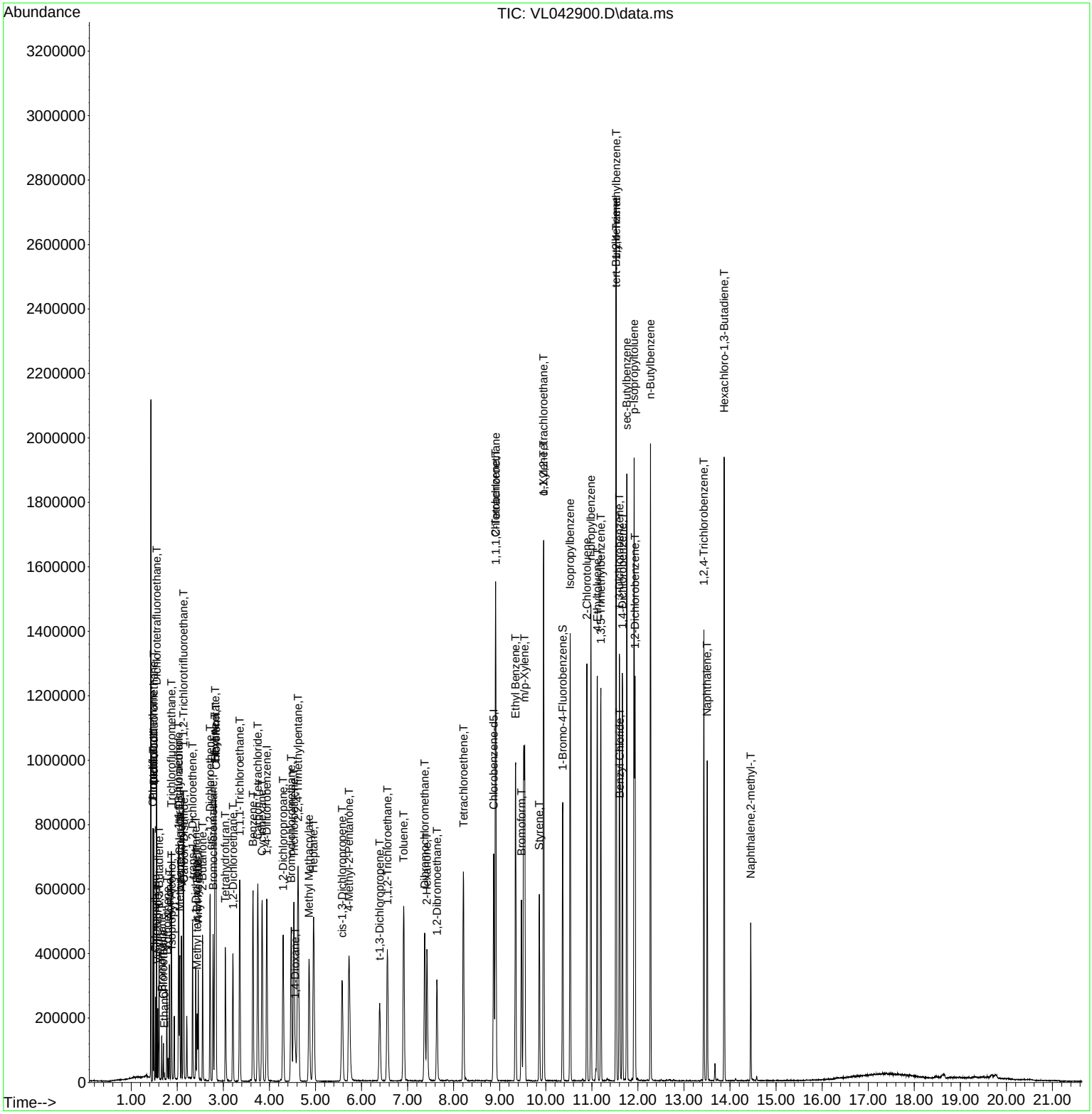
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.580	75	200797	10.851	ppbv		98
47) 1,1,2-Trichloroethane	6.561	97	144209	11.666	ppbv		98
48) Dibromochloromethane	7.370	129	228649	11.430	ppbv		100
49) Bromoform	9.471	173	184068	11.158	ppbv		98
50) 4-Methyl-2-Pentanone	5.729	43	359329	11.801	ppbv		96
51) 2-Hexanone	7.419	43	284454	11.872	ppbv	#	95
52) Tetrachloroethene	8.212	164	110334	9.547	ppbv		98
53) Toluene	6.914	91	402080	10.587	ppbv		100
54) 1,2-Dibromoethane	7.636	107	204276	11.307	ppbv		98
56) 1,1,1,2-Tetrachloroethane	8.914	131	170319	11.648	ppbv		99
57) Chlorobenzene	8.911	112	311373	11.581	ppbv		97
58) Ethyl Benzene	9.345	91	558102	11.184	ppbv		99
59) m/p-Xylene	9.539	91	468620	11.981	ppbv	#	100
60) o-Xylene	9.953	91	460968	11.716	ppbv		100
61) Styrene	9.859	104	195007	10.579	ppbv		99
62) Isopropylbenzene	10.529	105	655164	11.394	ppbv		98
63) 1,1,2,2-Tetrachloroethane	9.953	83	266435	12.314	ppbv		100
64) n-propylbenzene	10.979	120	164610	11.220	ppbv		90
65) tert-Butylbenzene	11.523	119	561409	11.075	ppbv		97
66) Benzyl Chloride	11.607	91	50803	7.895	ppbv	#	98
67) sec-Butylbenzene	11.759	105	833114	11.709	ppbv		98
69) p-Isopropyltoluene	11.918	119	667558	10.929	ppbv		99
70) n-Butylbenzene	12.274	91	711012	11.736	ppbv		98
71) 2-Chlorotoluene	10.892	91	498072	11.156	ppbv		97
72) 4-Ethyltoluene	11.118	105	554411	11.624	ppbv		98
73) 1,3,5-Trimethylbenzene	11.196	105	450409	11.105	ppbv		98
74) 1,2,4-Trimethylbenzene	11.529	105	508605	11.424	ppbv		95
75) 1,3-Dichlorobenzene	11.597	146	289650	11.445	ppbv		99
76) 1,4-Dichlorobenzene	11.662	146	287352	11.226	ppbv		99
77) 1,2-Dichlorobenzene	11.940	146	281307	11.351	ppbv		99
78) Hexachloro-1,3-Butadiene	13.873	225	167893	8.266	ppbv		99
79) Naphthalene	13.504	128	428355	10.613	ppbv		99
80) Naphthalene,2-methyl-	14.449	142	127751	8.470	ppbv		96
81) 1,2,4-Trichlorobenzene	13.432	180	207455	10.226	ppbv		99

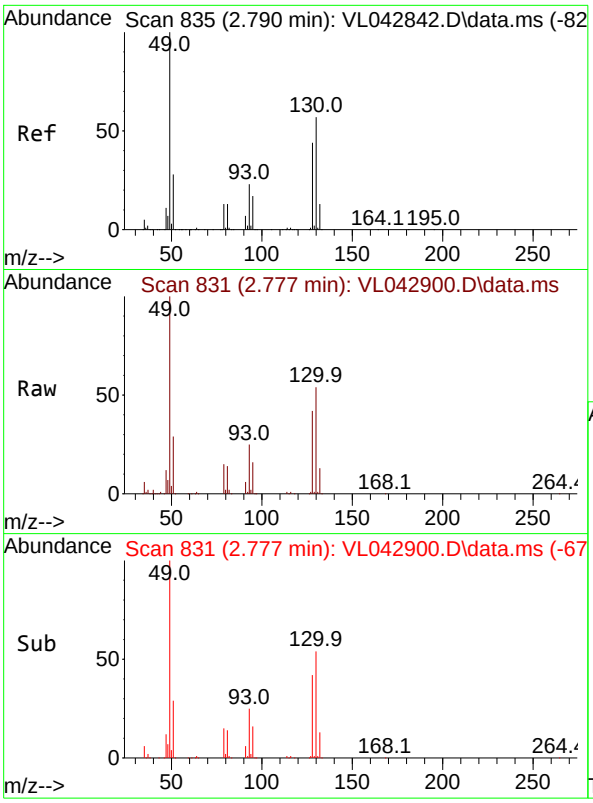
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
Data File : VL042900.D
Acq On : 08 Sep 2025 11:05
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Quant Time: Sep 09 00:52:45 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 : Tue Sep 09 00:52:26 2025
Response via : Initial Calibration



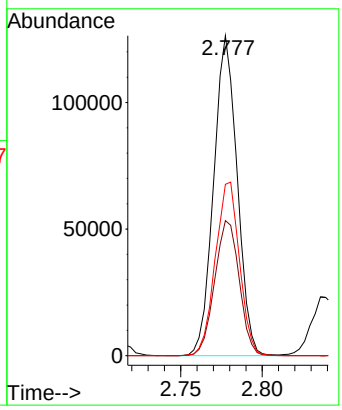


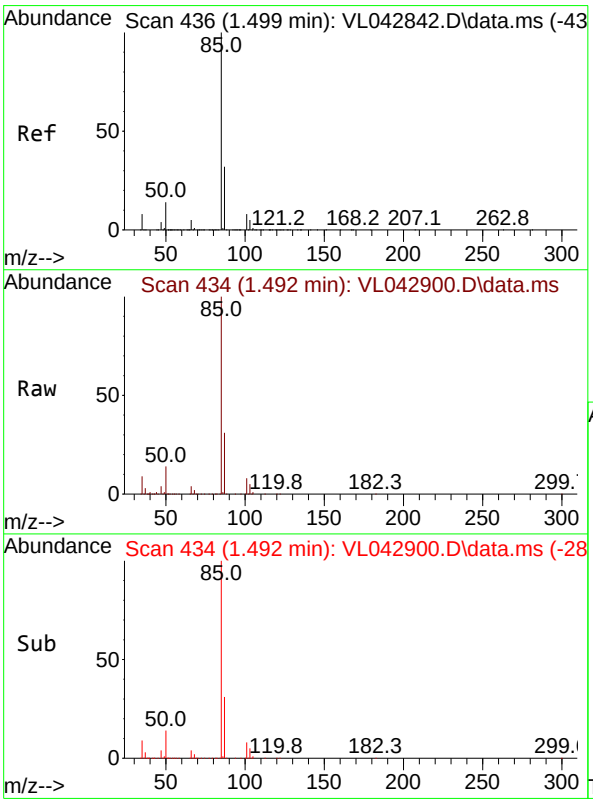
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.777 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 49 Resp: 126678

Ion	Ratio	Lower	Upper
49	100		
128	44.1	23.7	71.1
130	55.7	30.6	91.6

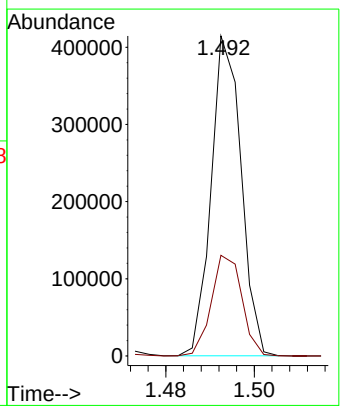


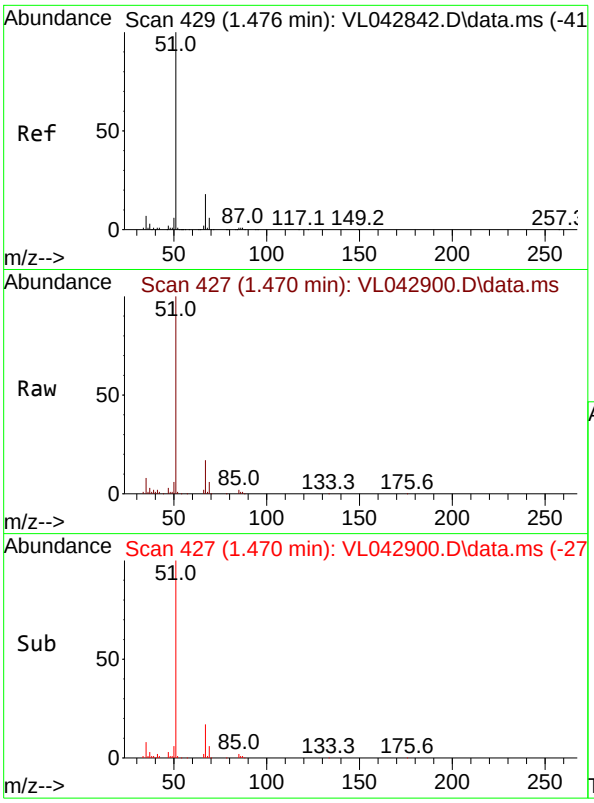


#2
Dichlorodifluoromethane
Concen: 10.511 ppbv
RT: 1.492 min Scan# 434
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 85 Resp: 195136

Ion	Ratio	Lower	Upper
85	100		
87	31.4	25.3	37.9



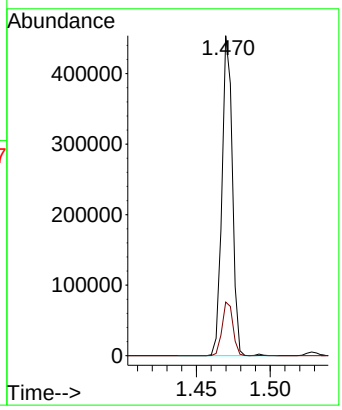


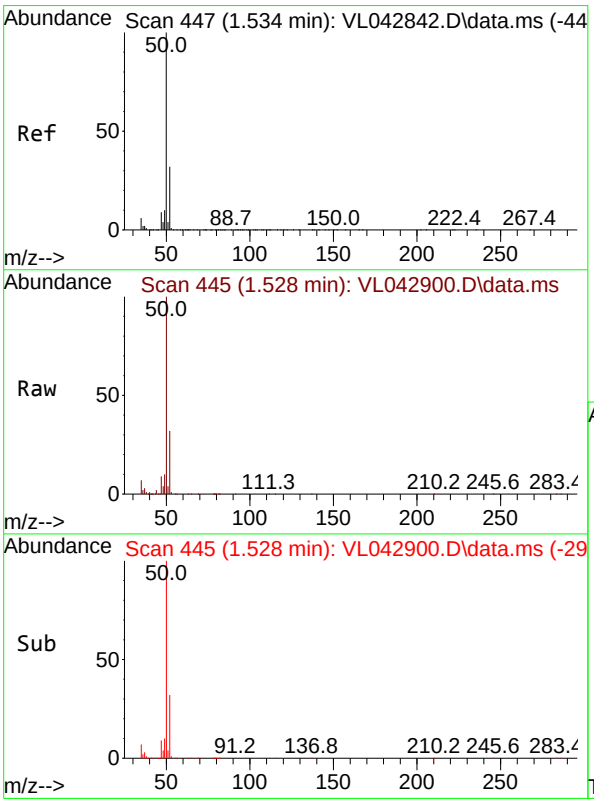
#3
Chlorodifluoromethane
Concen: 10.910 ppbv
RT: 1.470 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 51 Resp: 223887

Ion	Ratio	Lower	Upper
51	100		
67	17.5	14.9	22.3

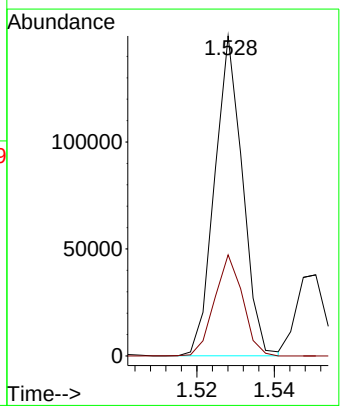


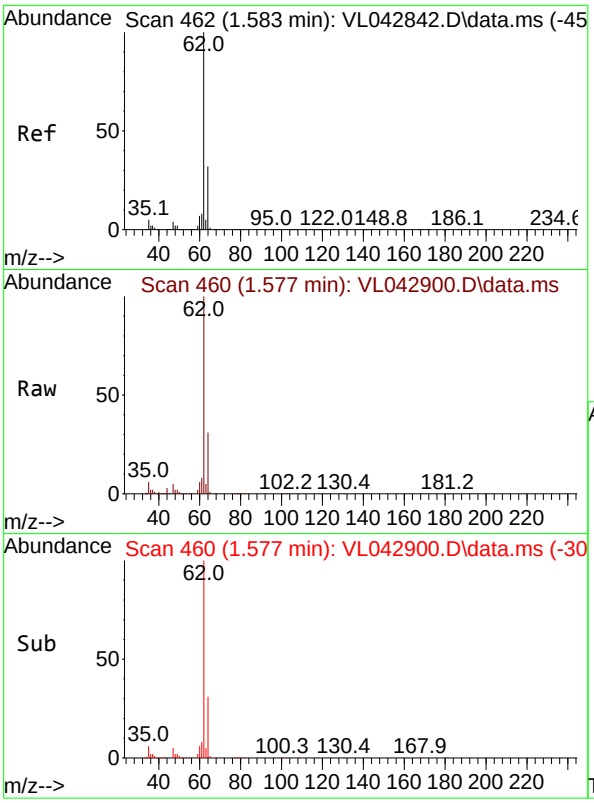


#4
Chloromethane
Concen: 9.988 ppbv
RT: 1.528 min Scan# 445
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 50 Resp: 74830

Ion	Ratio	Lower	Upper
50	100		
52	31.6	25.9	38.9



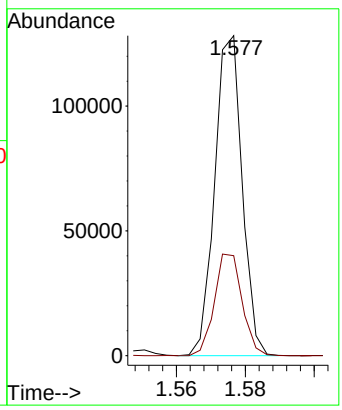


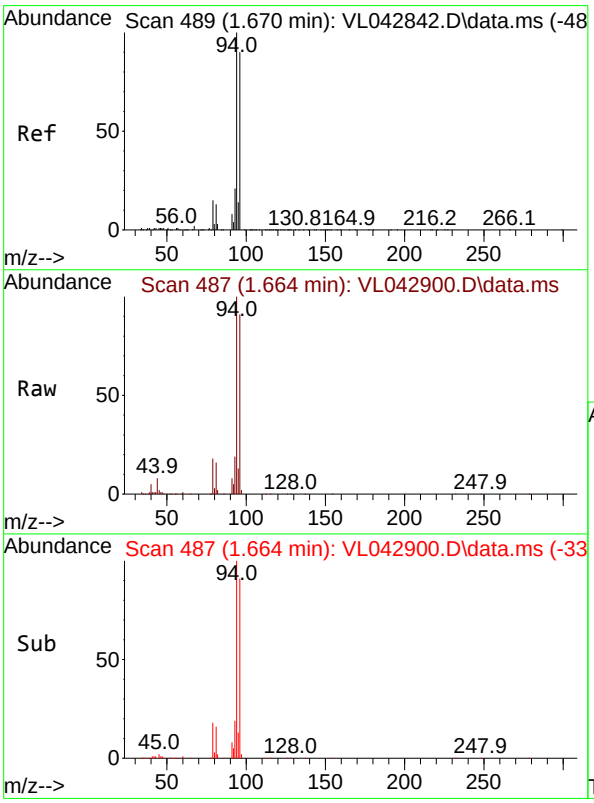
#5
Vinyl Chloride
Concen: 9.609 ppbv
RT: 1.577 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 62 Resp: 70899

Ion	Ratio	Lower	Upper
62	100		
64	31.3	25.4	38.2

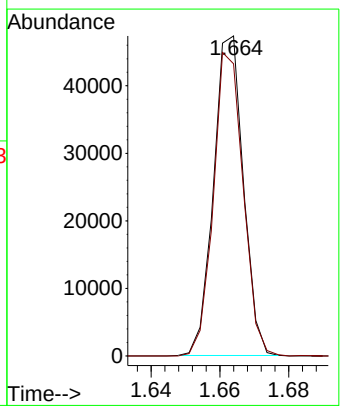


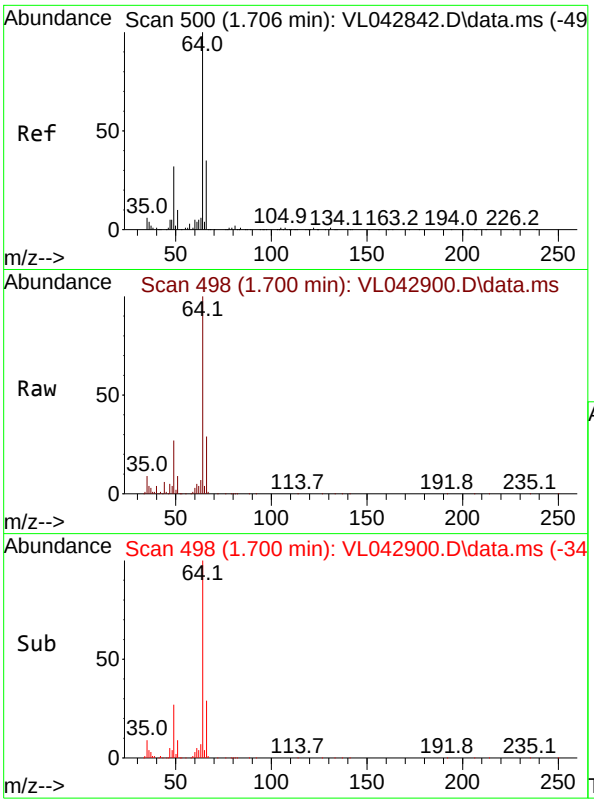


#6
Bromomethane
Concen: 9.659 ppbv
RT: 1.664 min Scan# 487
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 94 Resp: 28498

Ion	Ratio	Lower	Upper
94	100		
96	91.4	72.1	108.1



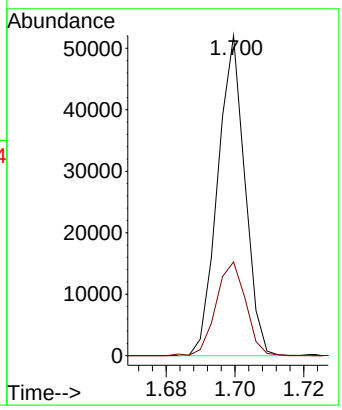


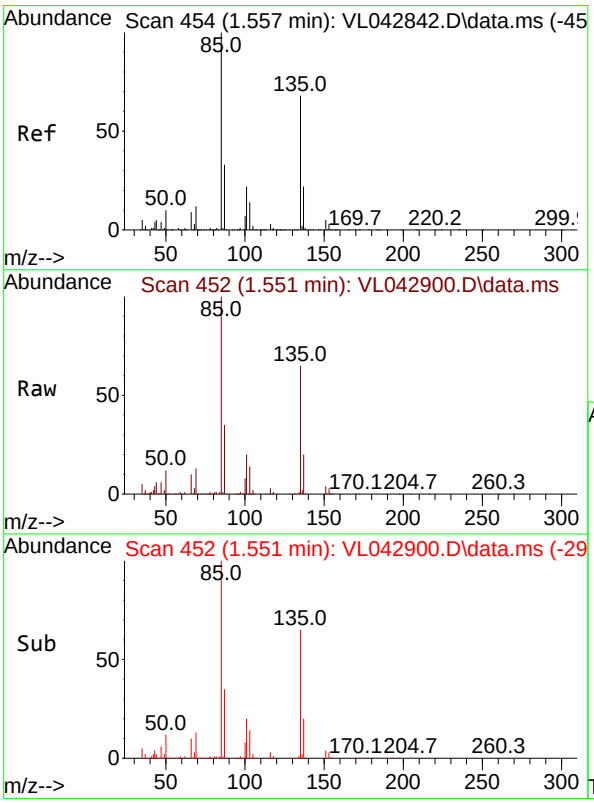
#7
Chloroethane
Concen: 9.889 ppbv
RT: 1.700 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 64 Resp: 28496

Ion	Ratio	Lower	Upper
64	100		
66	29.3	28.6	42.8

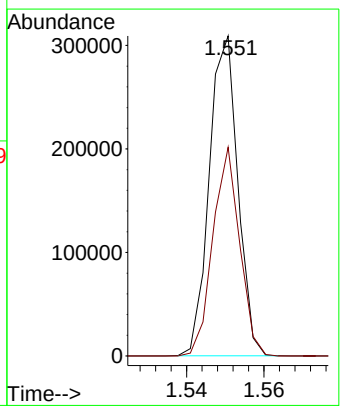


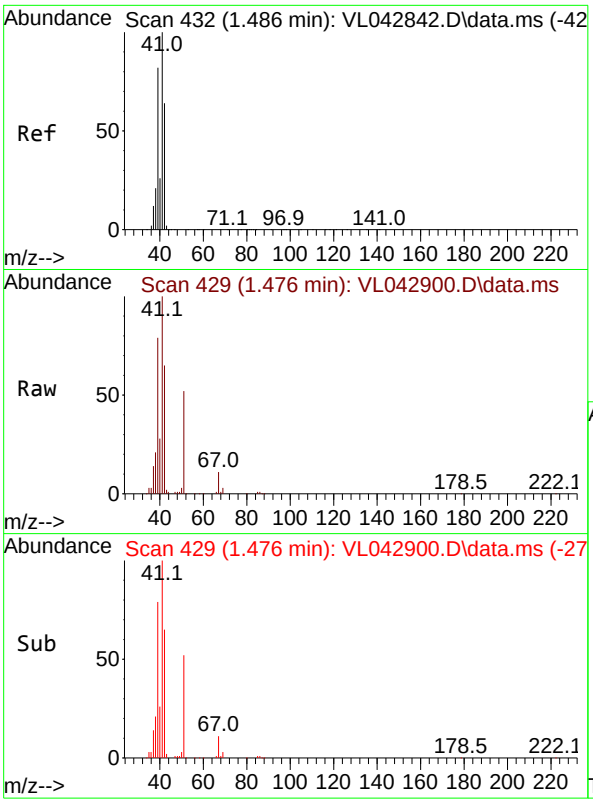


#8
Dichlorotetrafluoroethane
Concen: 10.420 ppbv
RT: 1.551 min Scan# 452
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 85 Resp: 158303

Ion	Ratio	Lower	Upper
85	100		
135	61.2	51.2	76.8



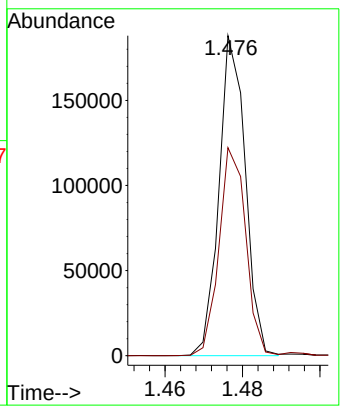


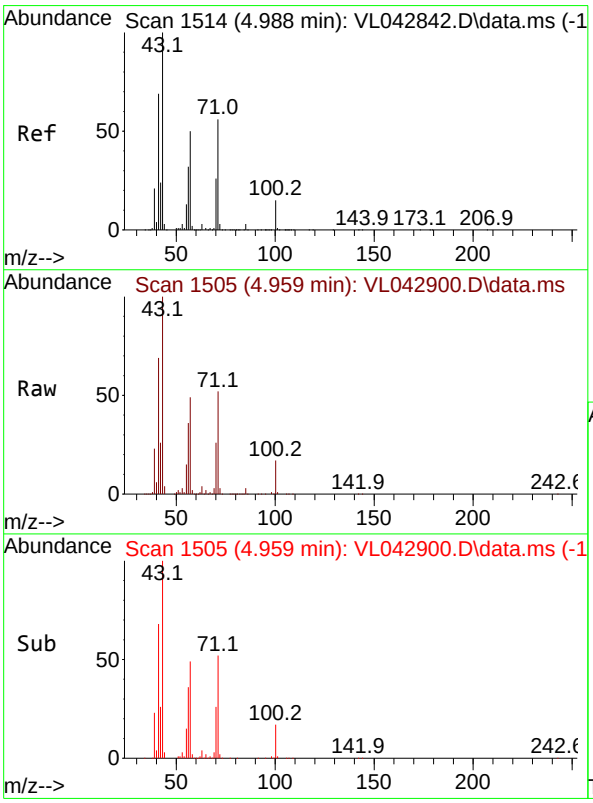
#9
Propene
Concen: 10.009 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 41 Resp: 88702

Ion	Ratio	Lower	Upper
41	100		
42	67.1	53.0	79.4

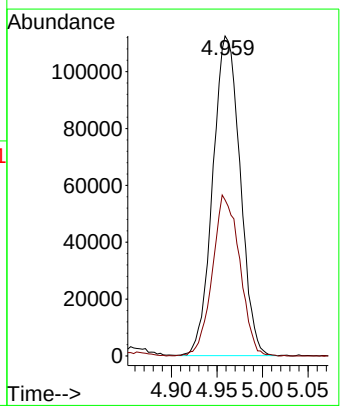


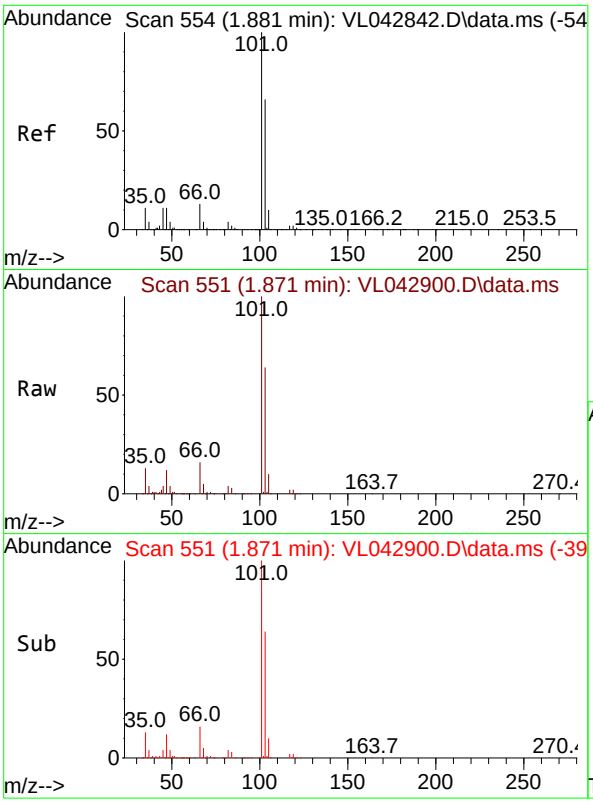


#10
Heptane
Concen: 9.898 ppbv
RT: 4.959 min Scan# 1505
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 43 Resp: 234952

Ion	Ratio	Lower	Upper
43	100		
57	50.2	41.4	62.0



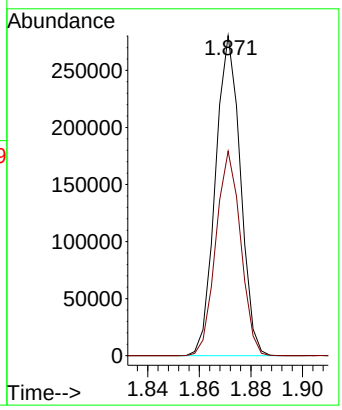


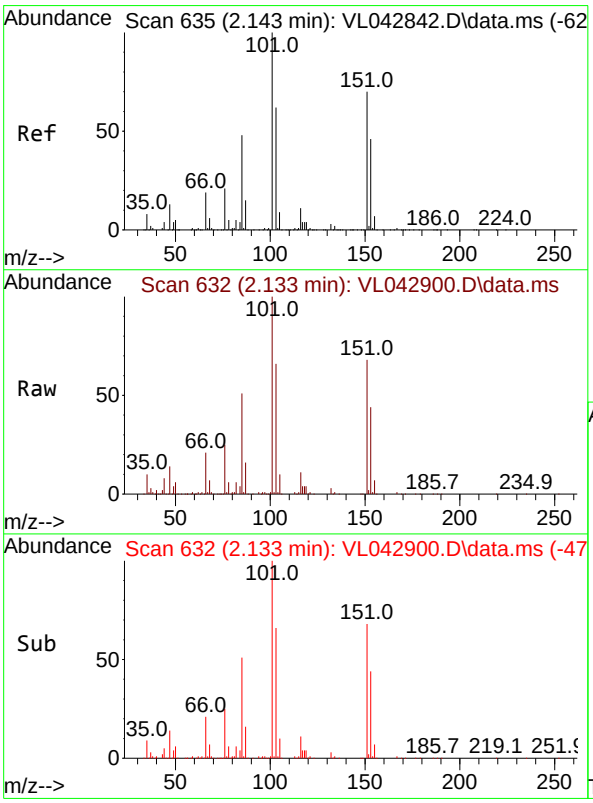
#11
Trichlorofluoromethane
Concen: 10.280 ppbv
RT: 1.871 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:101 Resp: 188309

Ion	Ratio	Lower	Upper
101	100		
103	63.9	52.5	78.7

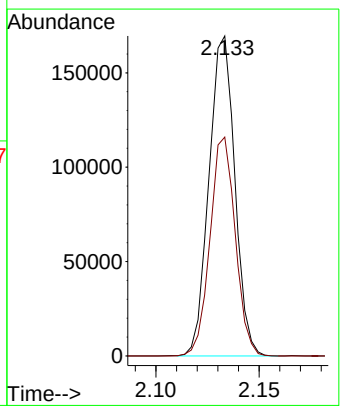


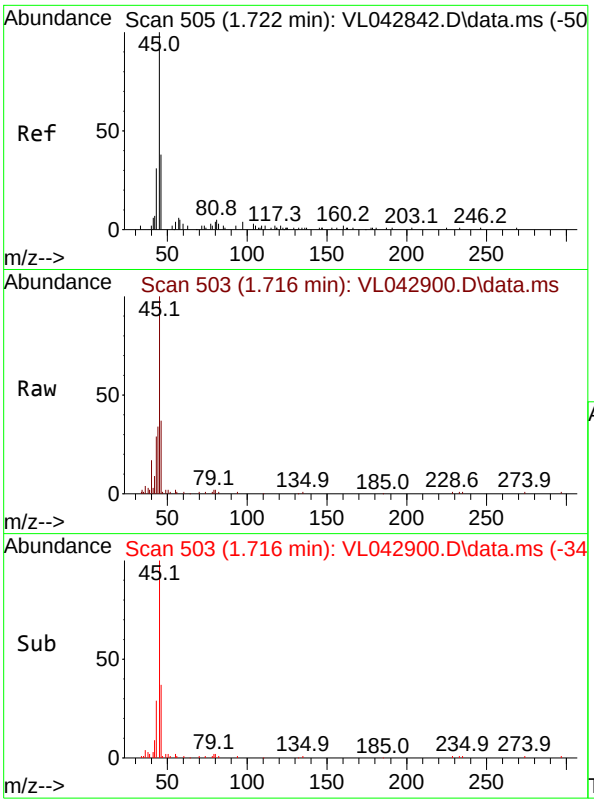


#12
1,1,2-Trichlorotrifluoroethane
Concen: 10.089 ppbv
RT: 2.133 min Scan# 632
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion:101 Resp: 147287

Ion	Ratio	Lower	Upper
101	100		
151	66.9	56.4	84.6



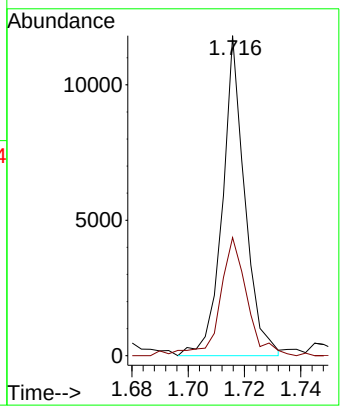


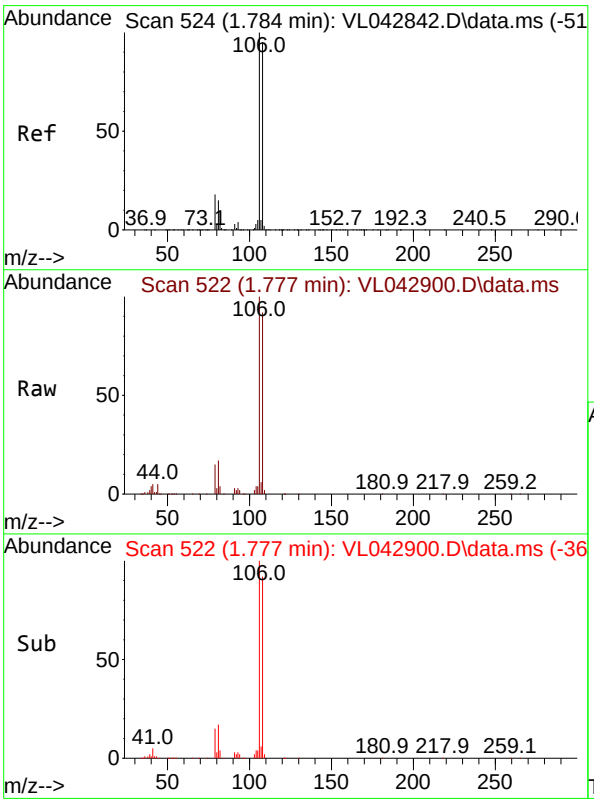
#13
Ethanol
Concen: 8.052 ppbv
RT: 1.716 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 45 Resp: 6525

Ion	Ratio	Lower	Upper
45	100		
46	44.8	17.5	69.9

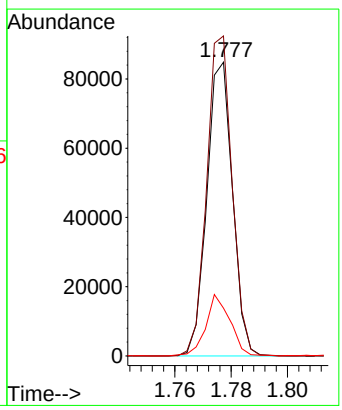


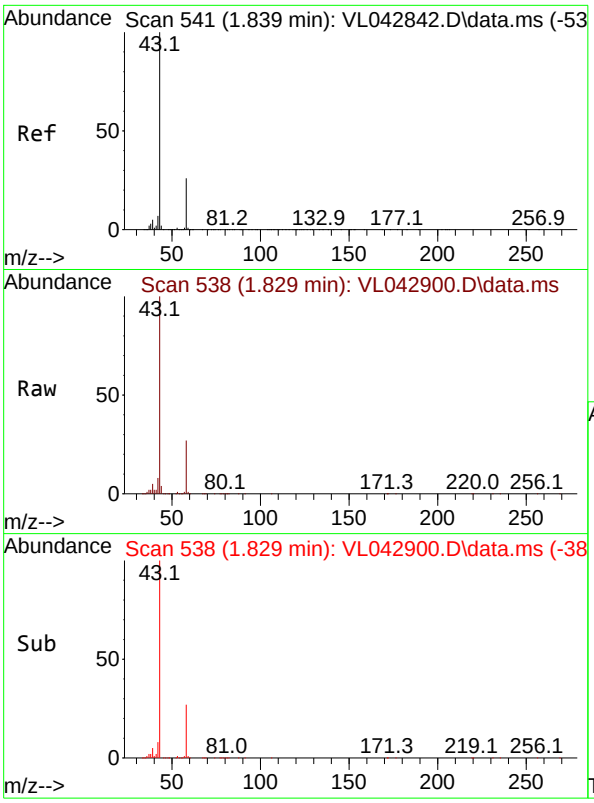


#14
Bromoethene
Concen: 10.171 ppbv
RT: 1.777 min Scan# 522
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion:108 Resp: 53755

Ion	Ratio	Lower	Upper
108	100		
106	107.9	85.1	127.7
79	19.9	16.3	24.5



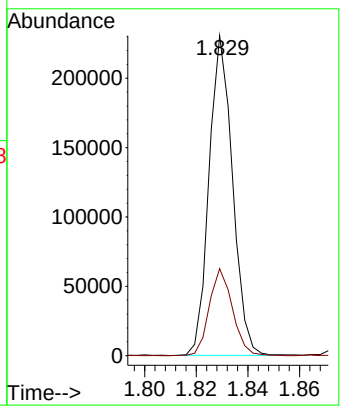


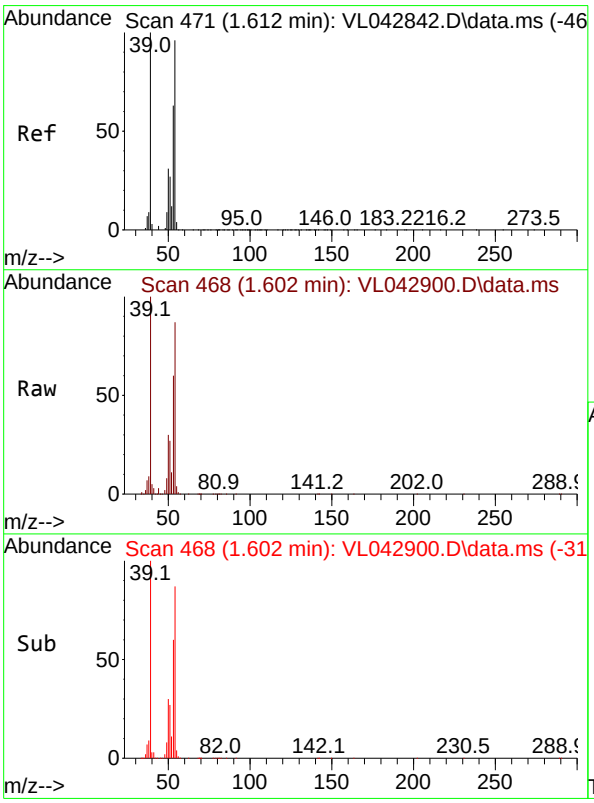
#15
Acetone
Concen: 8.670 ppbv
RT: 1.829 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 43 Resp: 145289

Ion	Ratio	Lower	Upper
43	100		
58	27.0	22.4	33.6

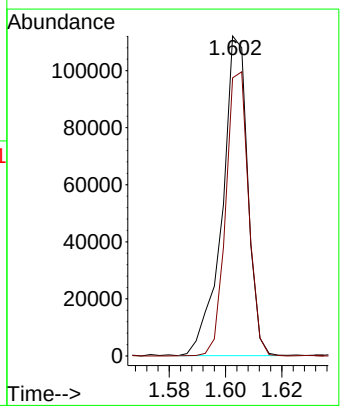


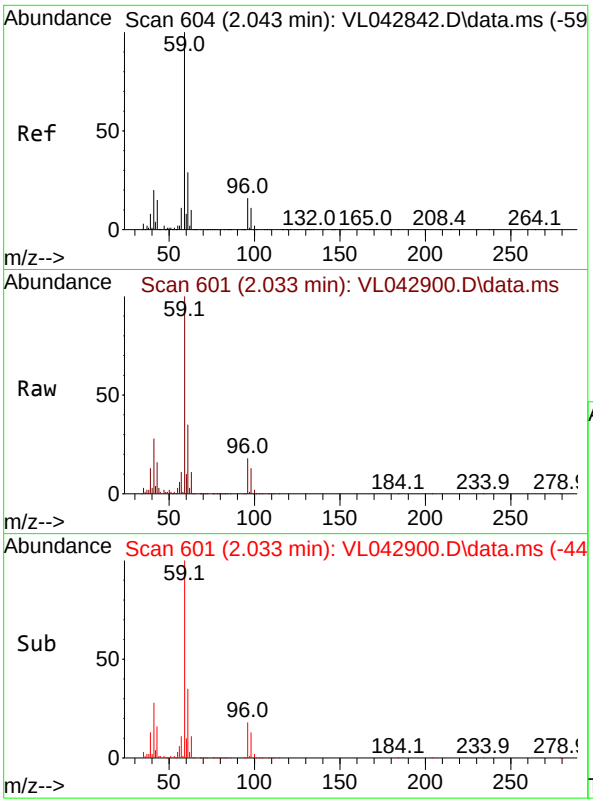


#16
1,3-Butadiene
Concen: 9.308 ppbv
RT: 1.602 min Scan# 468
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 39 Resp: 70713

Ion	Ratio	Lower	Upper
39	100		
54	79.5	63.6	95.4



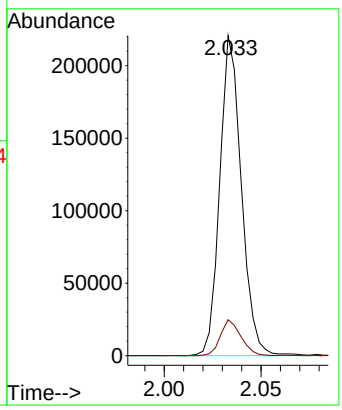


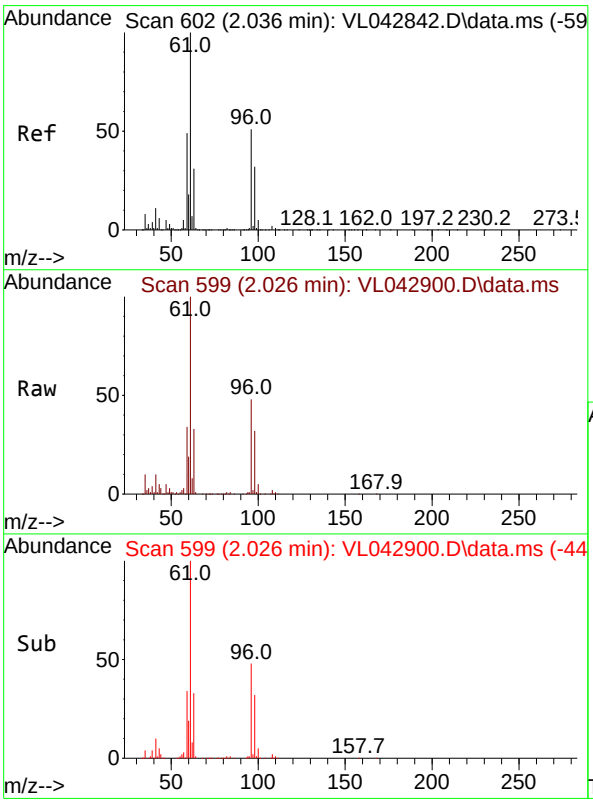
#17
tert-Butyl alcohol
Concen: 8.574 ppbv
RT: 2.033 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 59 Resp: 170394

Ion	Ratio	Lower	Upper
59	100		
57	10.8	9.0	13.4

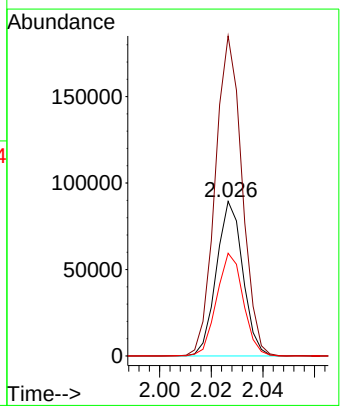


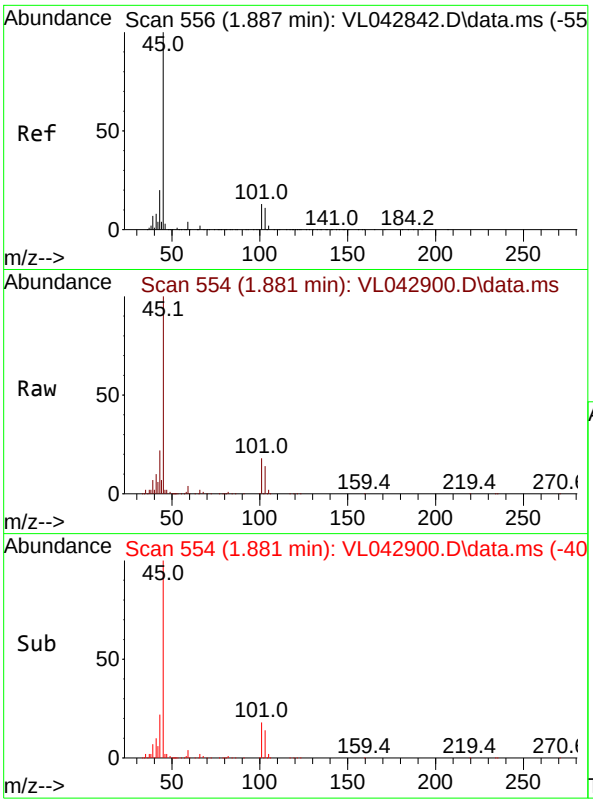


#18
1,1-Dichloroethene
Concen: 9.900 ppbv
RT: 2.026 min Scan# 599
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 96 Resp: 63544

Ion	Ratio	Lower	Upper
96	100		
61	207.0	158.2	237.4
98	66.3	50.6	76.0



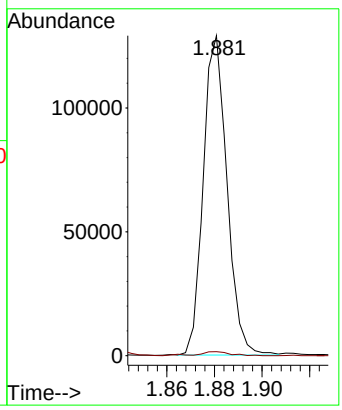


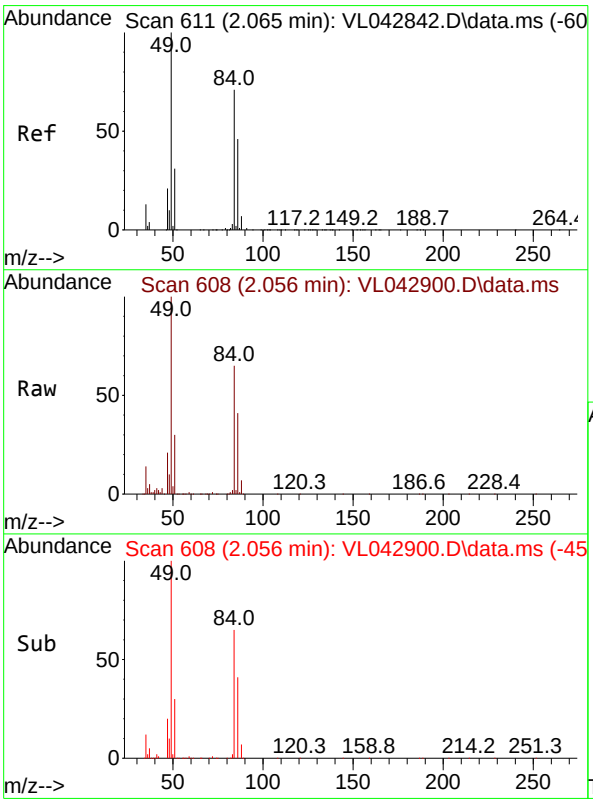
#19
Isopropyl Alcohol
Concen: 8.893 ppbv
RT: 1.881 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 45 Resp: 89009

Ion	Ratio	Lower	Upper
45	100		
58	44.1	32.7	49.1

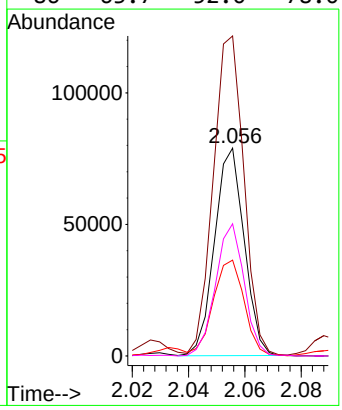


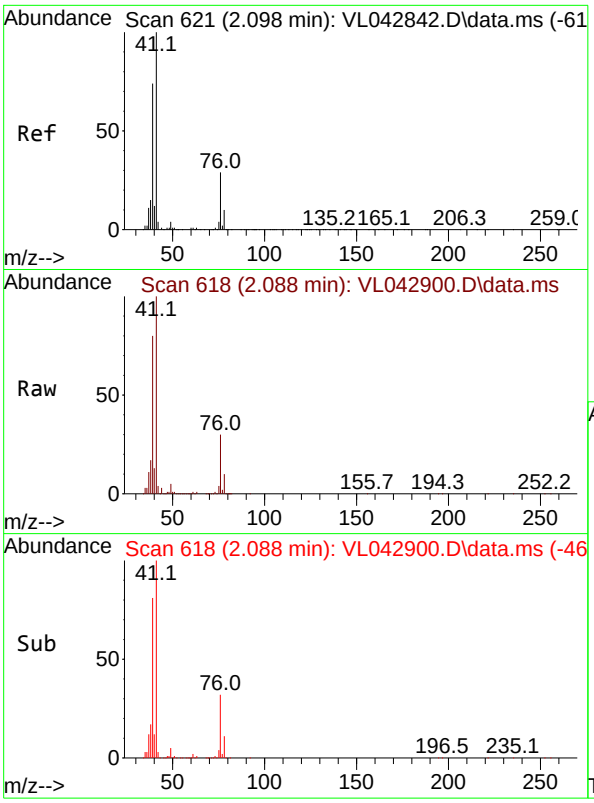


#20
Methylene Chloride
Concen: 8.219 ppbv
RT: 2.056 min Scan# 608
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 84 Resp: 57698

Ion	Ratio	Lower	Upper
84	100		
49	153.6	112.3	168.5
51	45.6	36.0	54.0
86	63.7	52.0	78.0



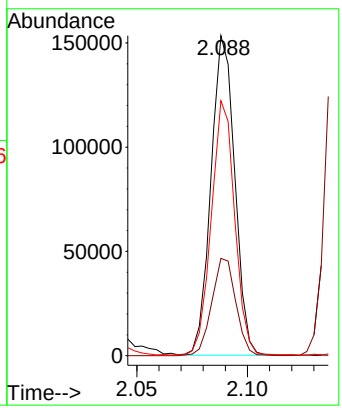


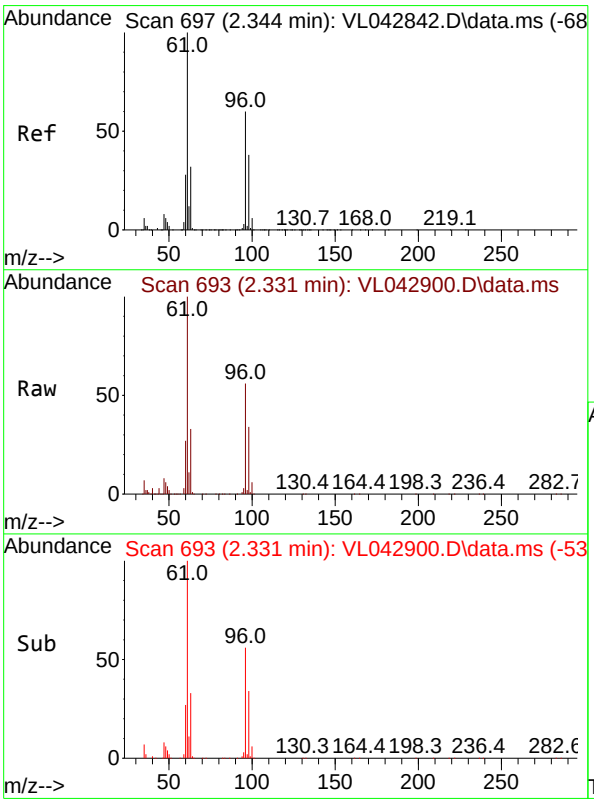
#21
Allyl Chloride
Concen: 9.658 ppbv
RT: 2.088 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 41 Resp: 114332

Ion	Ratio	Lower	Upper
41	100		
76	30.9	23.9	35.9
39	78.4	57.8	86.6

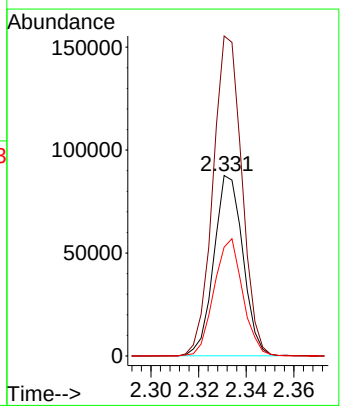


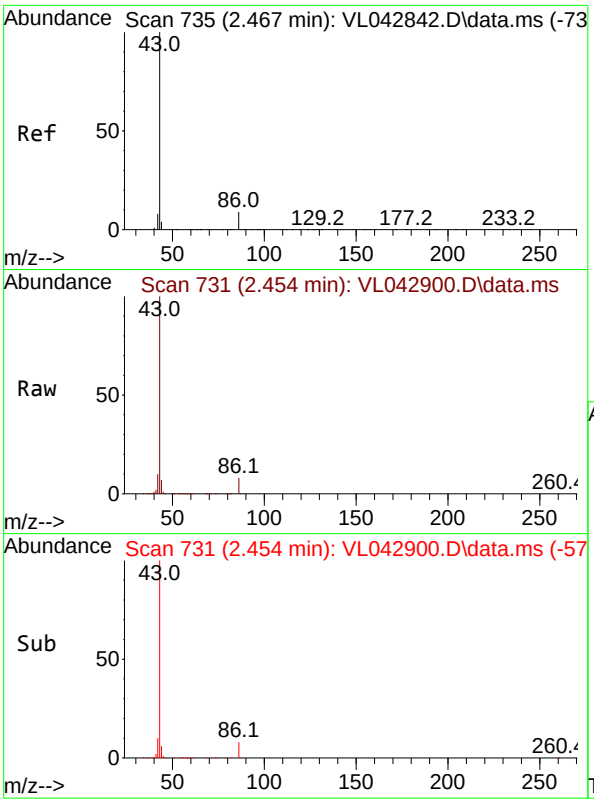


#22
trans-1,2-Dichloroethene
Concen: 9.971 ppbv
RT: 2.331 min Scan# 693
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 96 Resp: 74045

Ion	Ratio	Lower	Upper
96	100		
61	177.5	132.6	199.0
98	60.3	50.0	75.0



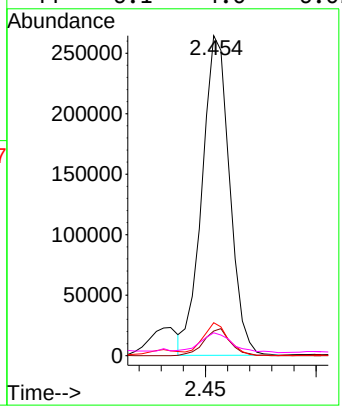


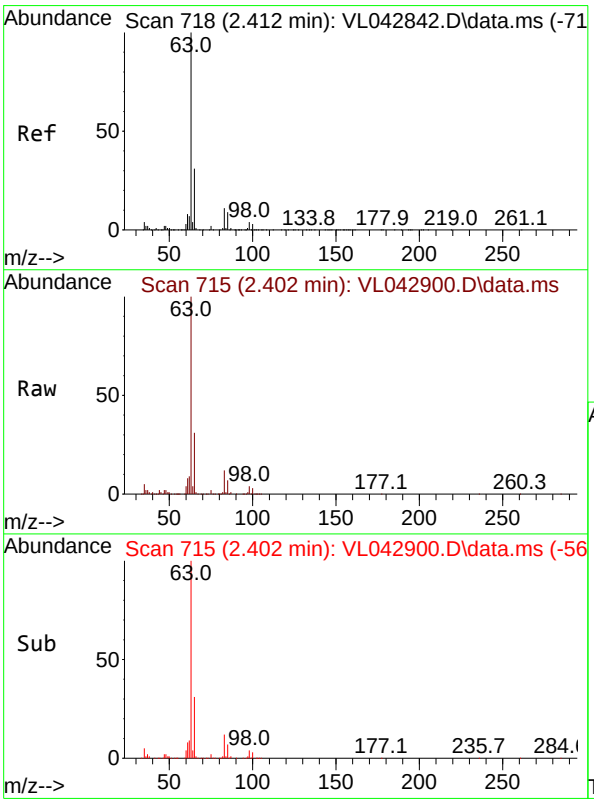
#23
Vinyl Acetate
Concen: 9.907 ppbv
RT: 2.454 min Scan# 7
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 43 Resp: 228268

Ion	Ratio	Lower	Upper
43	100		
86	7.7	6.6	9.8
42	10.3	7.0	10.6
44	6.1	4.0	6.0#

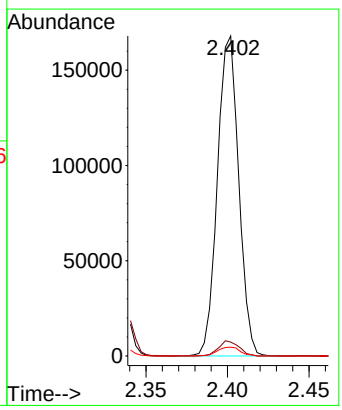


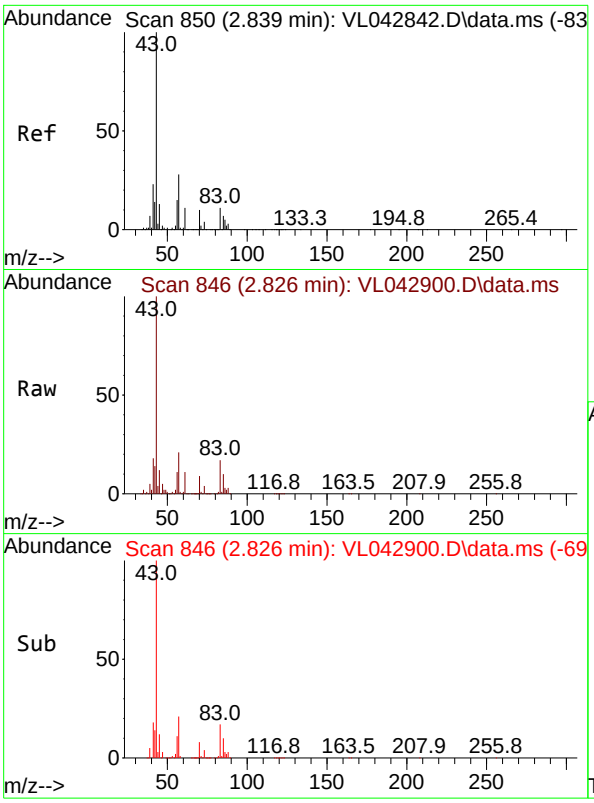


#24
1,1-Dichloroethane
Concen: 10.291 ppbv
RT: 2.402 min Scan# 715
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 63 Resp: 152618

Ion	Ratio	Lower	Upper
63	100		
98	4.4	2.1	6.5
100	2.7	1.7	5.1



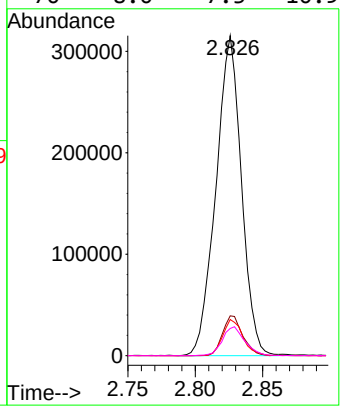


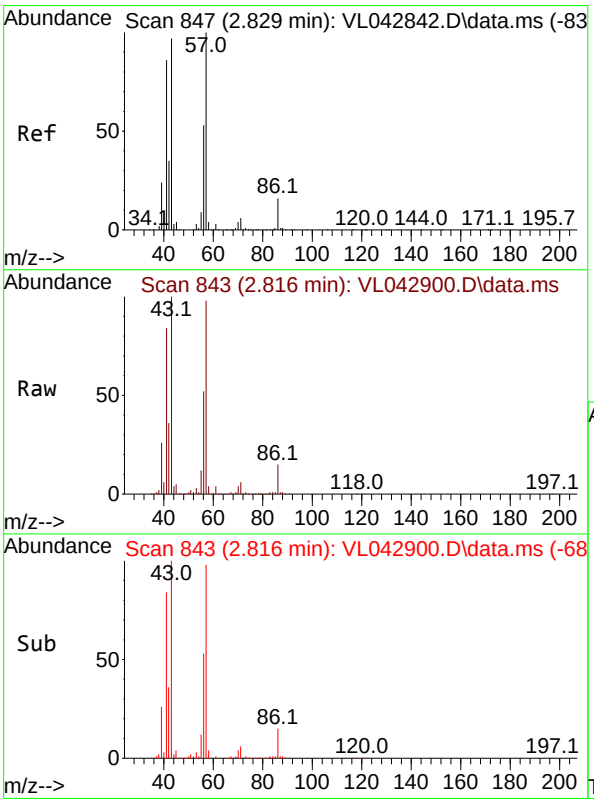
#25
Ethyl Acetate
Concen: 10.242 ppbv
RT: 2.826 min Scan# 84
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 43 Resp: 415386

Ion	Ratio	Lower	Upper
43	100		
45	9.9	8.1	12.1
61	9.0	7.4	11.2
70	8.0	7.3	10.9

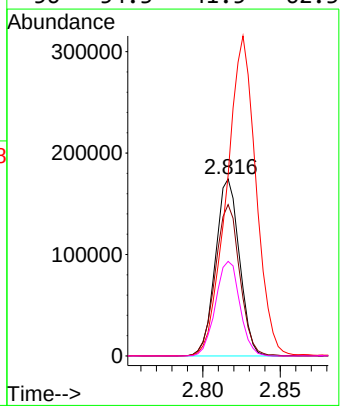


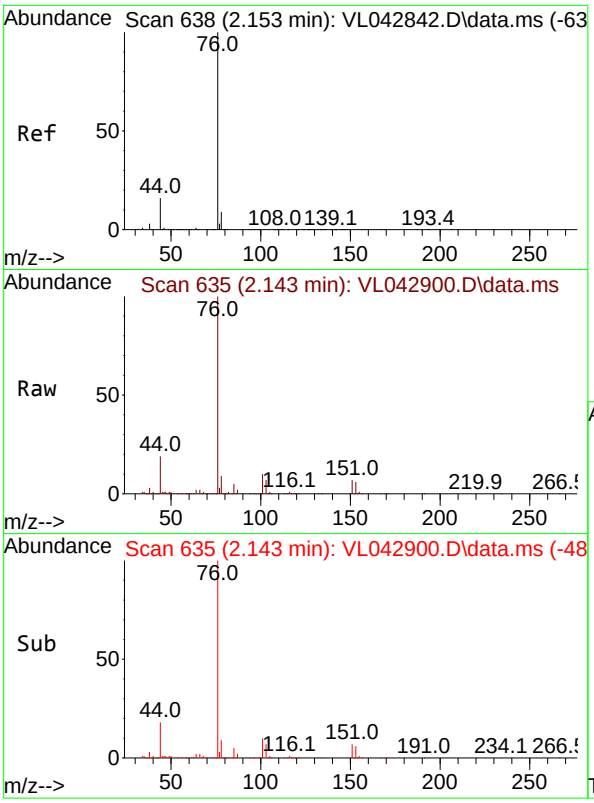


#26
Hexane
Concen: 10.031 ppbv
RT: 2.816 min Scan# 843
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 57 Resp: 187779

Ion	Ratio	Lower	Upper
57	100		
41	87.6	68.6	103.0
43	222.1	168.5	252.7
56	54.3	41.5	62.3



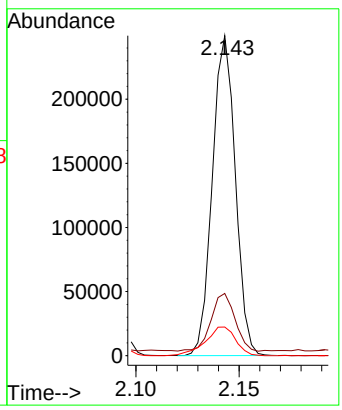


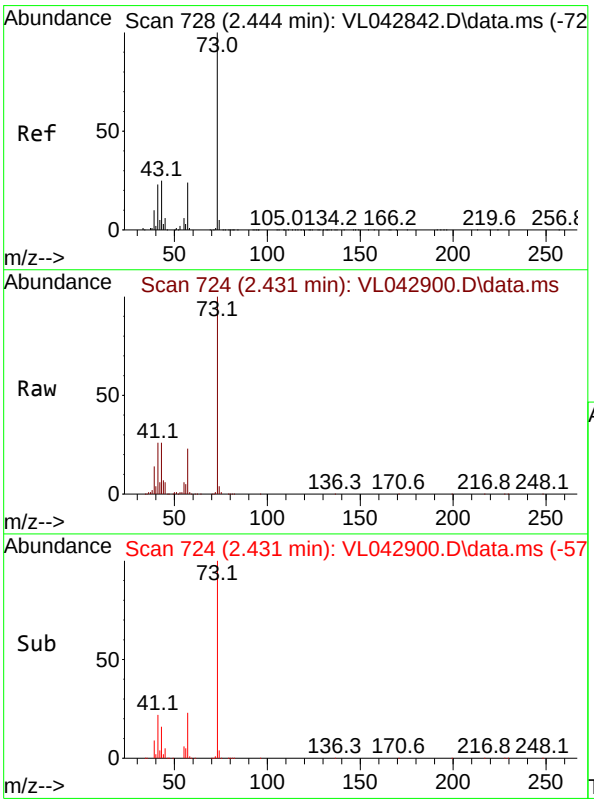
#27
Carbon Disulfide
Concen: 10.608 ppbv
RT: 2.143 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 76 Resp: 193262

Ion	Ratio	Lower	Upper
76	100		
44	18.7	15.9	23.9
78	11.8	9.5	14.3

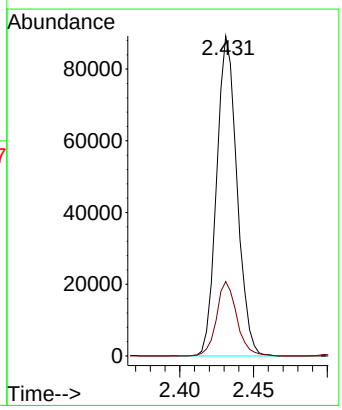


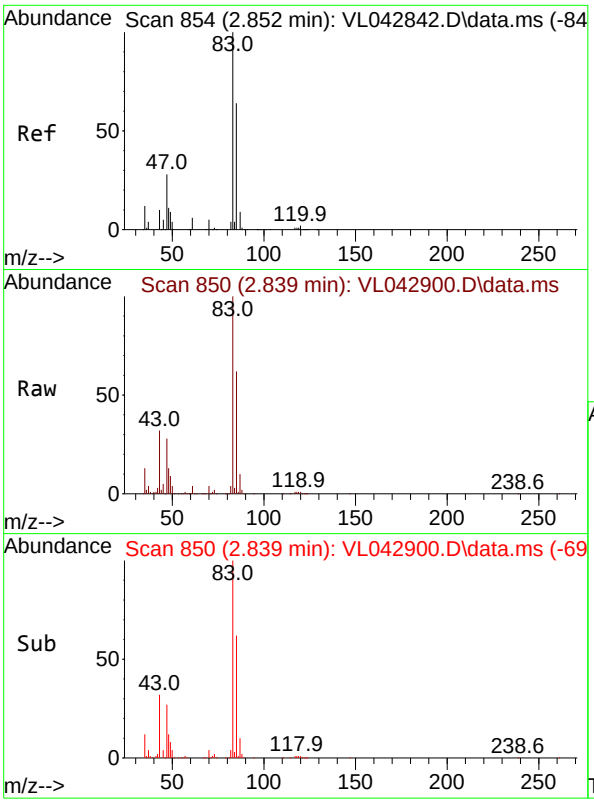


#28
Methyl tert-Butyl Ether
Concen: 8.986 ppbv
RT: 2.431 min Scan# 724
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 73 Resp: 85774

Ion	Ratio	Lower	Upper
73	100		
57	23.3	21.6	32.4



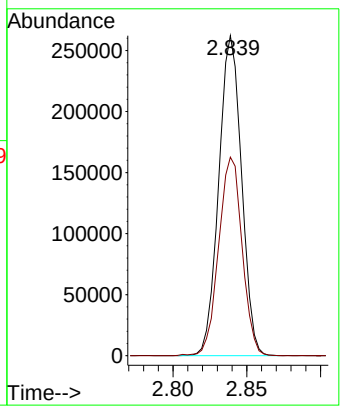


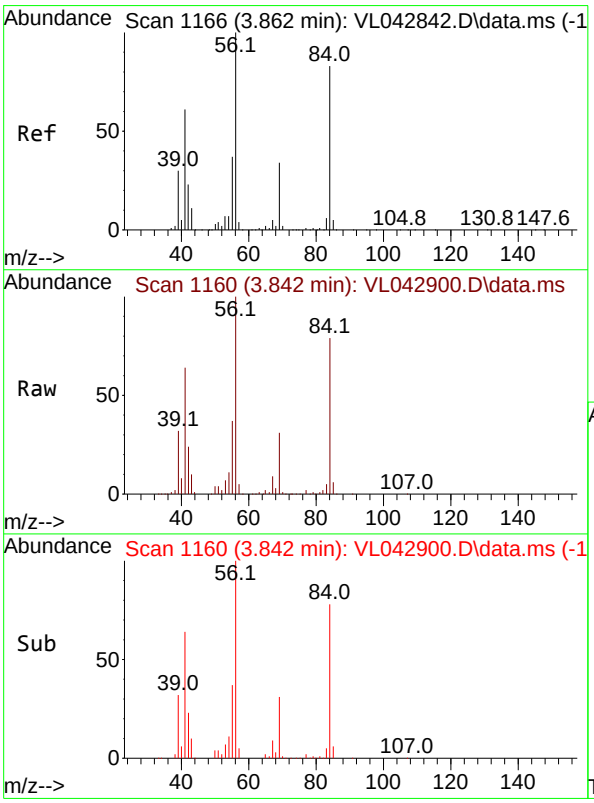
#29
Chloroform
Concen: 10.538 ppbv
RT: 2.839 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 83 Resp: 281659

Ion	Ratio	Lower	Upper
83	100		
85	62.0	51.1	76.7

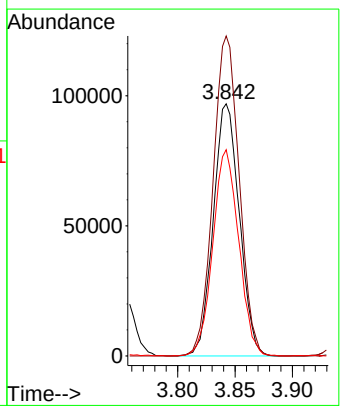


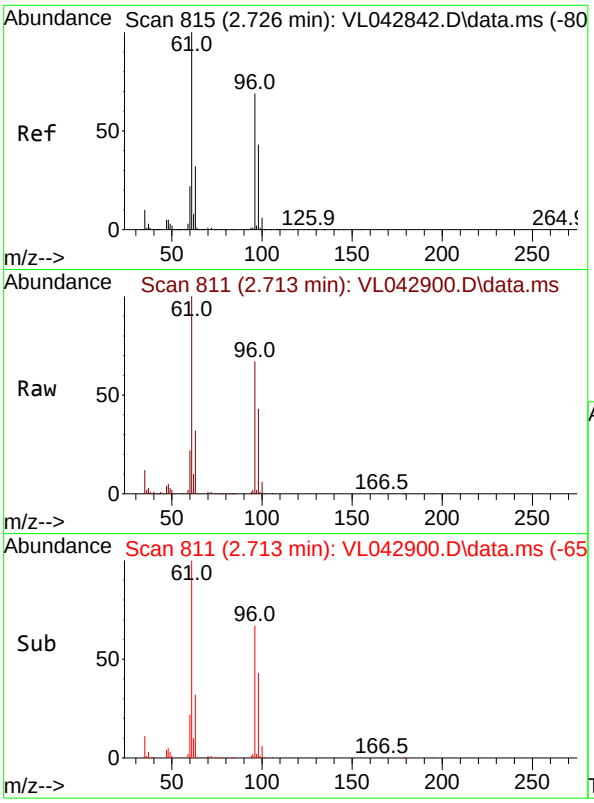


#30
Cyclohexane
Concen: 9.326 ppbv
RT: 3.842 min Scan# 1160
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 84 Resp: 153066

Ion	Ratio	Lower	Upper
84	100		
56	127.0	98.8	148.2
41	81.3	61.3	91.9



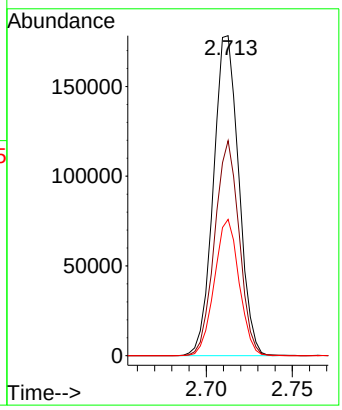


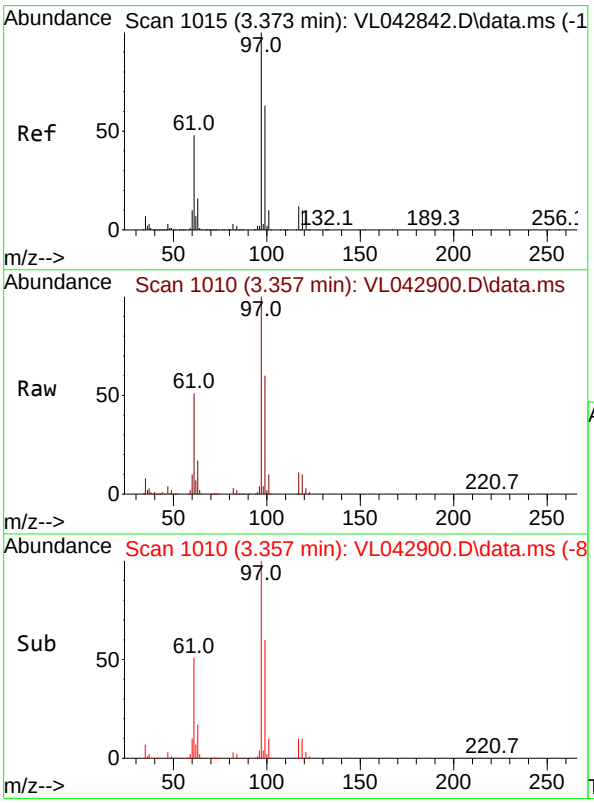
#31
cis-1,2-Dichloroethene
Concen: 9.765 ppbv
RT: 2.713 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 61 Resp: 182592

Ion	Ratio	Lower	Upper
61	100		
96	67.1	55.0	82.6
98	42.6	34.3	51.5

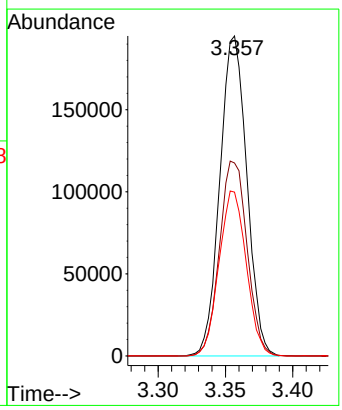


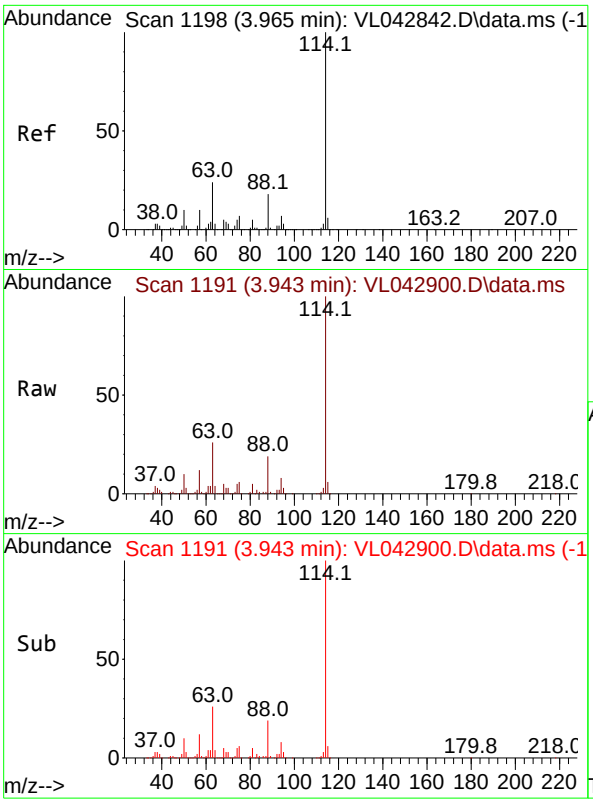


#32
1,1,1-Trichloroethane
Concen: 9.609 ppbv
RT: 3.357 min Scan# 1010
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 97 Resp: 271429

Ion	Ratio	Lower	Upper
97	100		
99	62.5	51.0	76.6
61	52.2	38.0	57.0



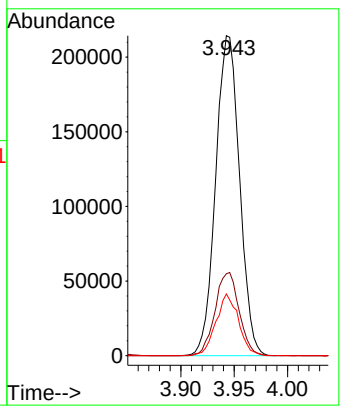


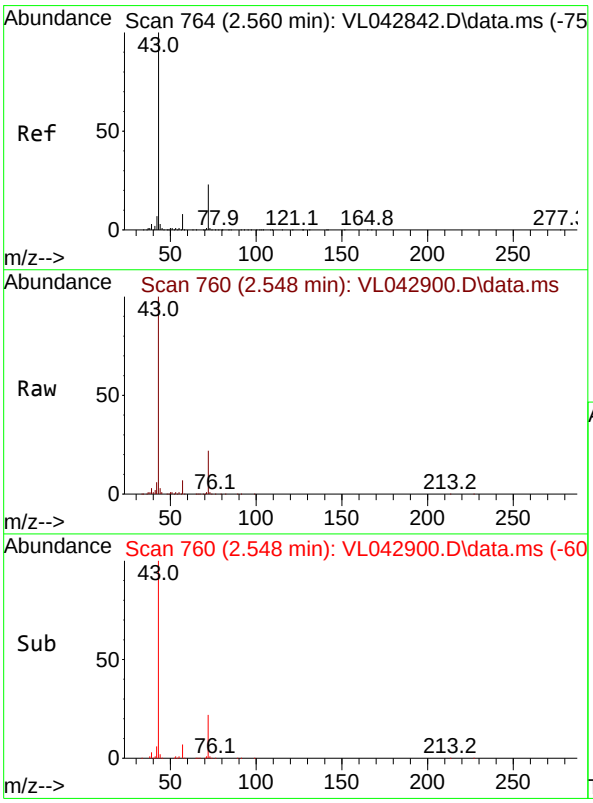
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.943 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:114 Resp: 333606

Ion	Ratio	Lower	Upper
114	100		
63	26.3	19.7	29.5
88	18.2	14.4	21.6

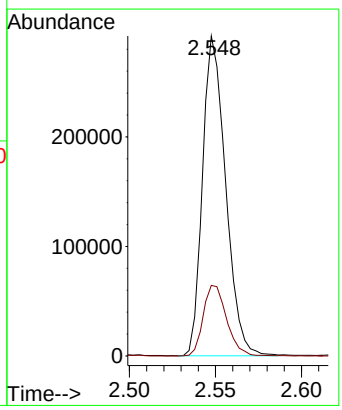


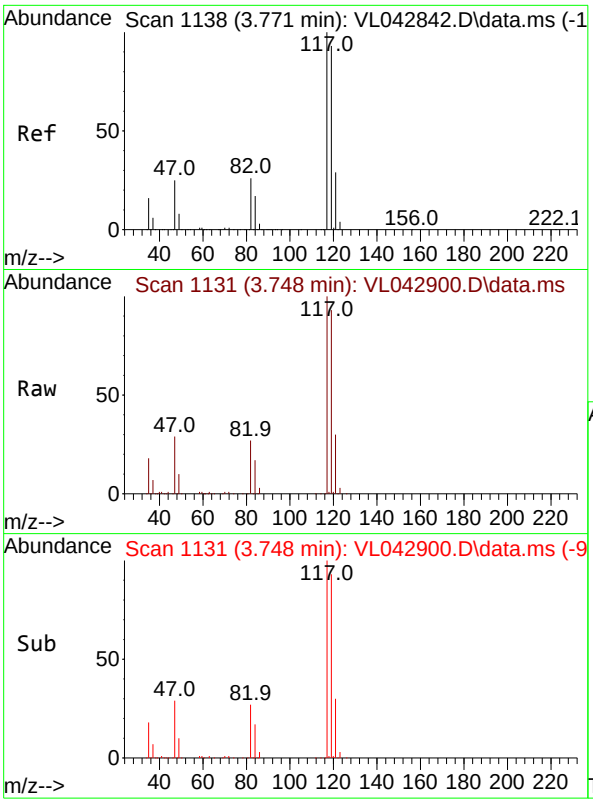


#34
2-Butanone
Concen: 12.107 ppbv
RT: 2.548 min Scan# 760
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 43 Resp: 272735

Ion	Ratio	Lower	Upper
43	100		
72	22.4	18.6	28.0



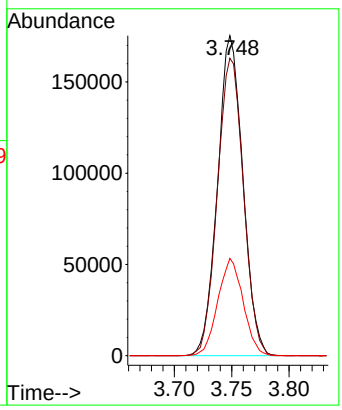


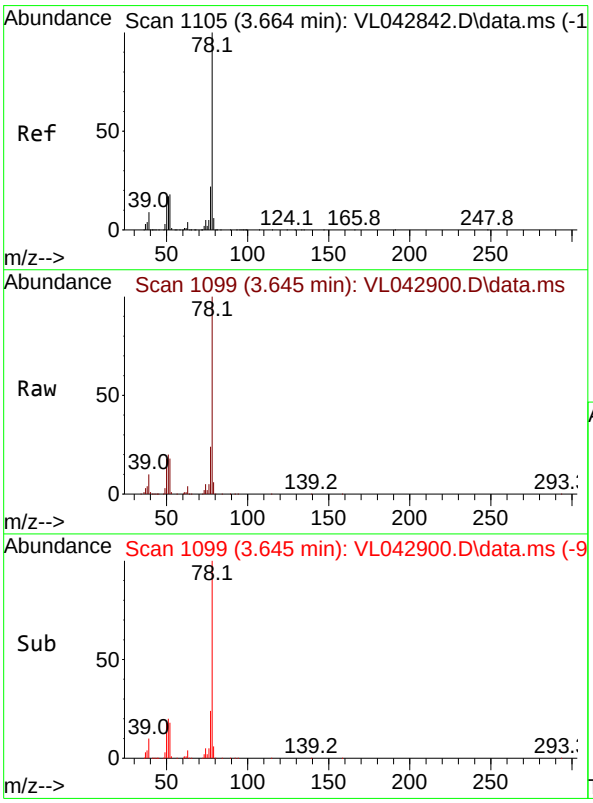
#35
Carbon Tetrachloride
Concen: 11.700 ppbv
RT: 3.748 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:117 Resp: 269097

Ion	Ratio	Lower	Upper
117	100		
119	93.0	74.7	112.1
121	30.4	23.2	34.8

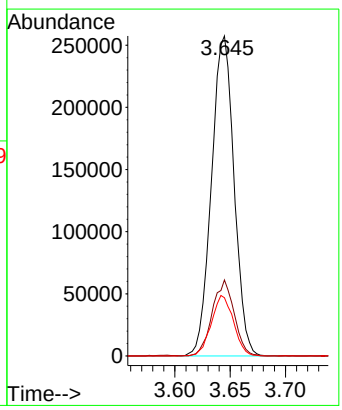


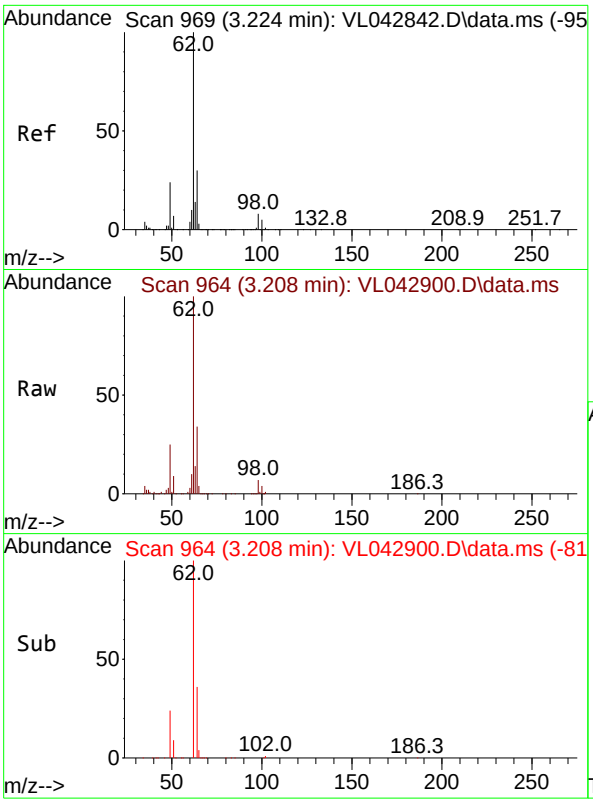


#36
Benzene
Concen: 11.458 ppbv
RT: 3.645 min Scan# 1099
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 78 Resp: 366027

Ion	Ratio	Lower	Upper
78	100		
77	23.7	17.7	26.5
50	18.2	13.9	20.9



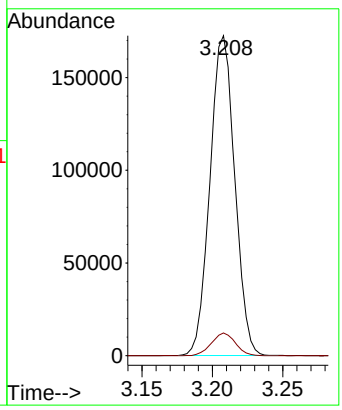


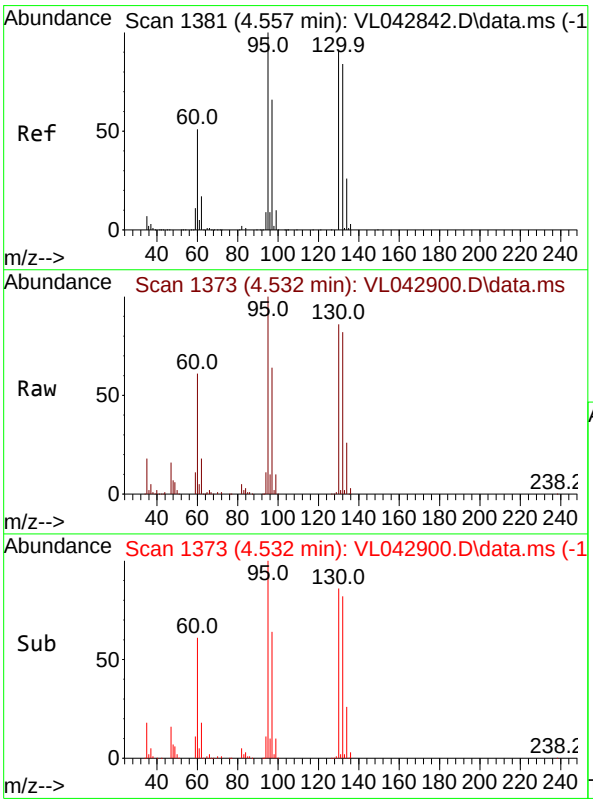
#37
1,2-Dichloroethane
Concen: 12.686 ppbv
RT: 3.208 min Scan# 9
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 62 Resp: 211728

Ion	Ratio	Lower	Upper
62	100		
98	6.9	5.9	8.9

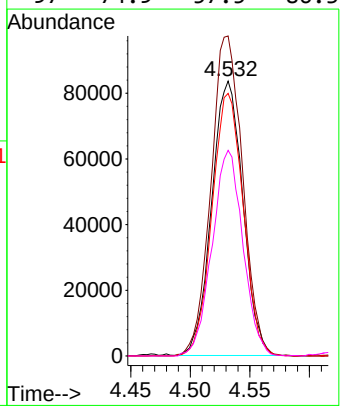


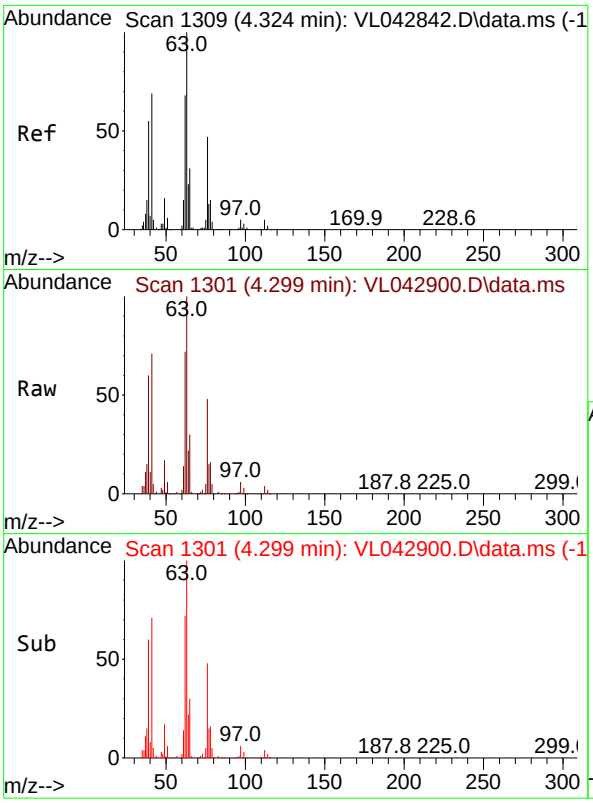


#38
Trichloroethene
Concen: 10.413 ppbv
RT: 4.532 min Scan# 1373
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion:130 Resp: 151915

Ion	Ratio	Lower	Upper
130	100		
95	116.1	87.6	131.4
132	95.4	73.8	110.8
97	74.9	57.5	86.3



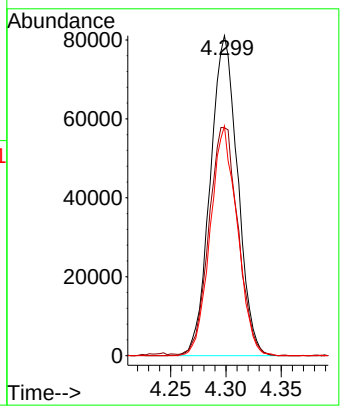


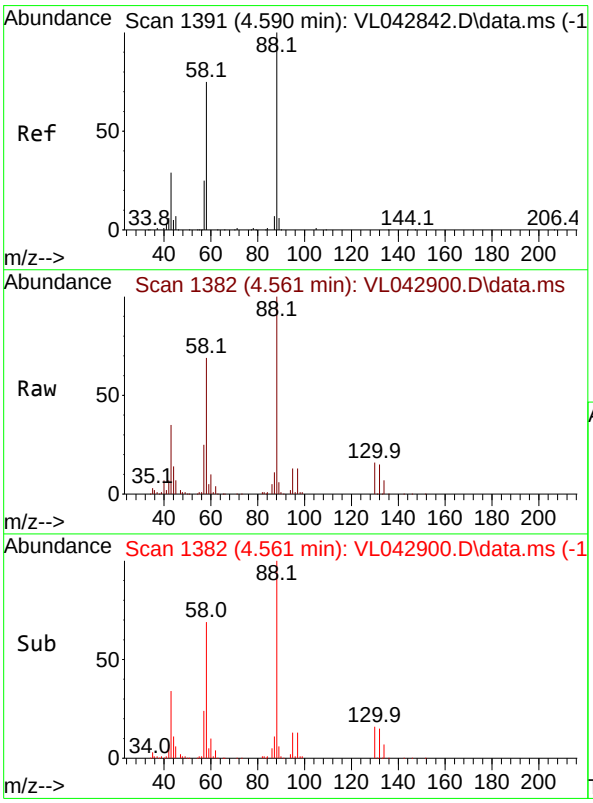
#39
1,2-Dichloropropane
Concen: 11.970 ppbv
RT: 4.299 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 63 Resp: 139657

Ion	Ratio	Lower	Upper
63	100		
41	71.2	55.0	82.4
62	71.8	54.4	81.6

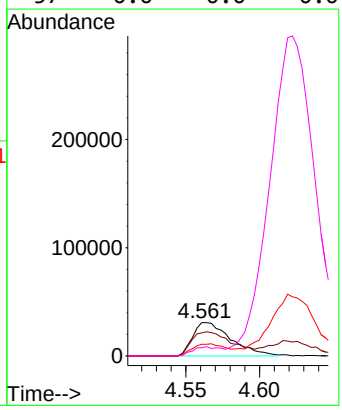


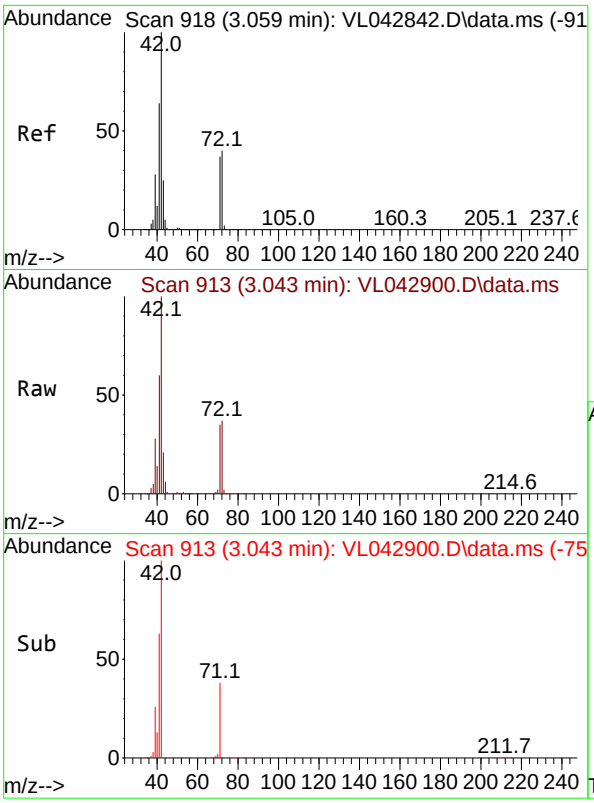


#40
1,4-Dioxane
Concen: 10.096 ppbv
RT: 4.561 min Scan# 1382
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 88 Resp: 56013

Ion	Ratio	Lower	Upper
88	100		
58	76.6	53.8	80.6
43	35.7	22.8	34.2#
57	0.0	0.0	0.0



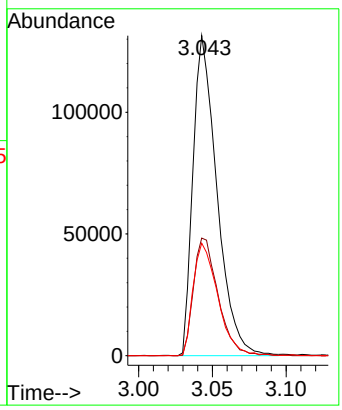


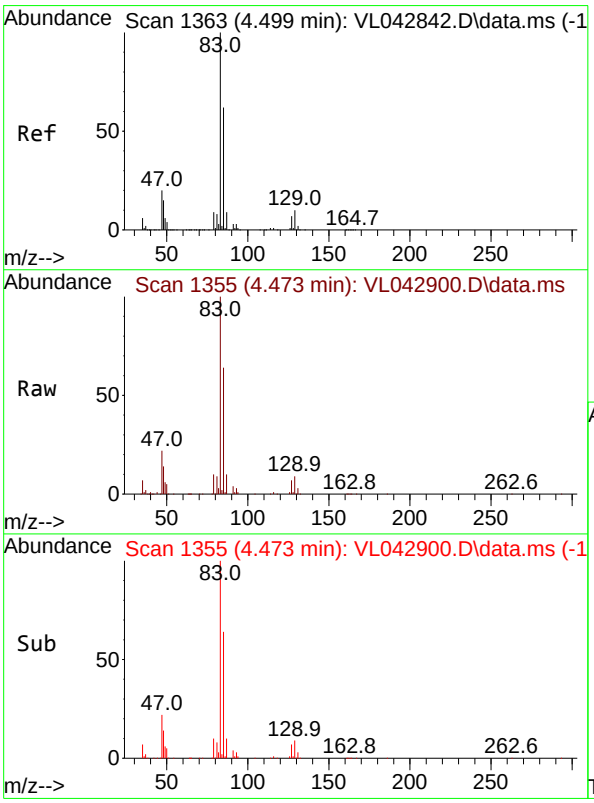
#41
Tetrahydrofuran
Concen: 11.863 ppbv
RT: 3.043 min Scan# 91
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 42 Resp: 148990

Ion	Ratio	Lower	Upper
42	100		
72	37.6	32.6	48.8
71	36.3	30.0	45.0

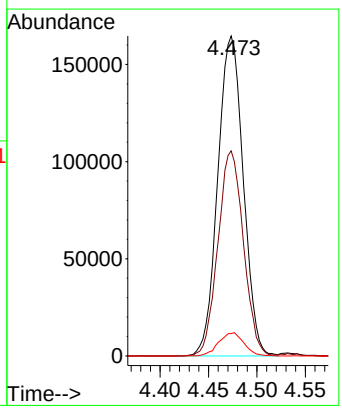


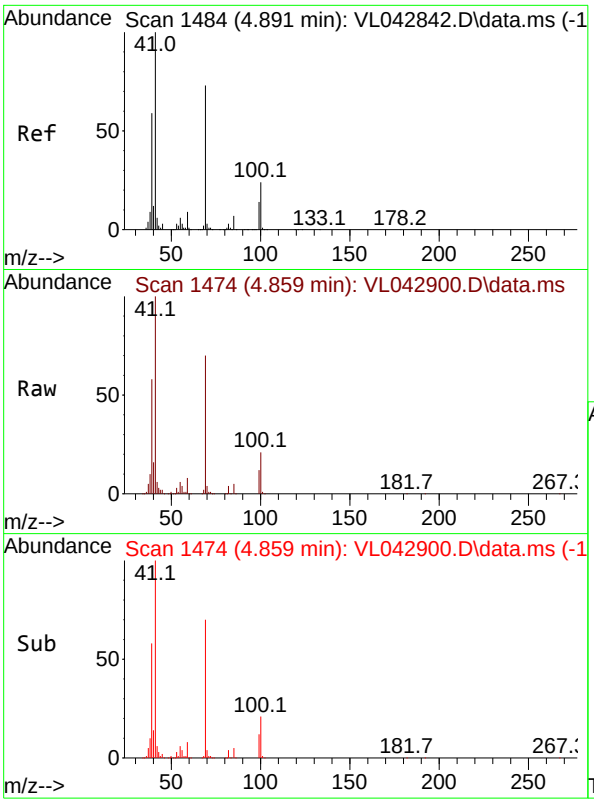


#42
Bromodichloromethane
Concen: 12.136 ppbv
RT: 4.473 min Scan# 1355
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 83 Resp: 301814

Ion	Ratio	Lower	Upper
83	100		
85	64.1	49.8	74.8
127	7.0	5.8	8.6



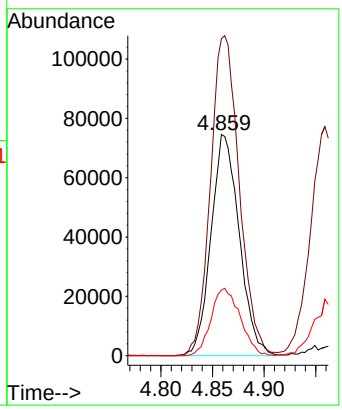


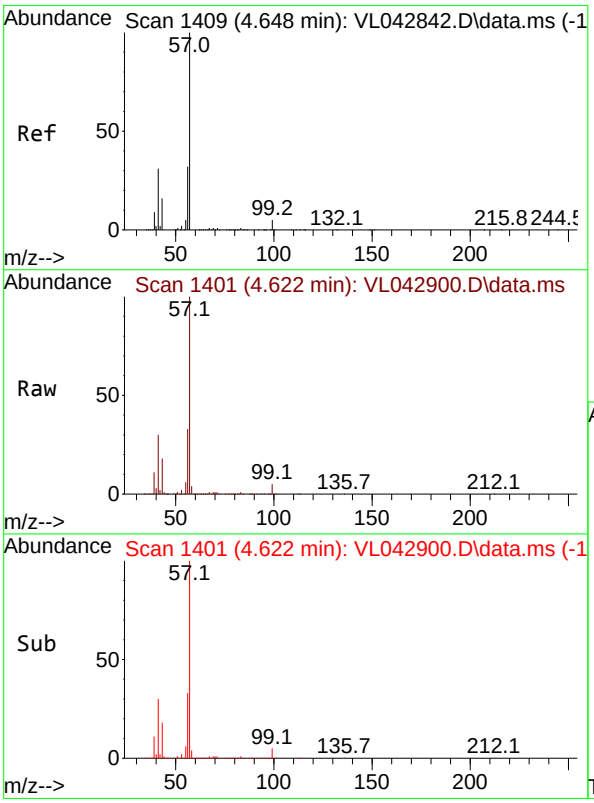
#43
Methyl Methacrylate
Concen: 10.776 ppbv
RT: 4.859 min Scan# 14
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 69 Resp: 141813

Ion	Ratio	Lower	Upper
69	100		
41	147.4	114.6	172.0
100	31.5	30.2	45.4

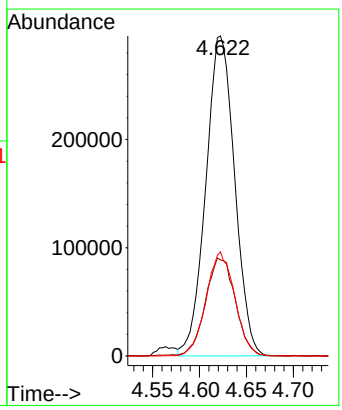


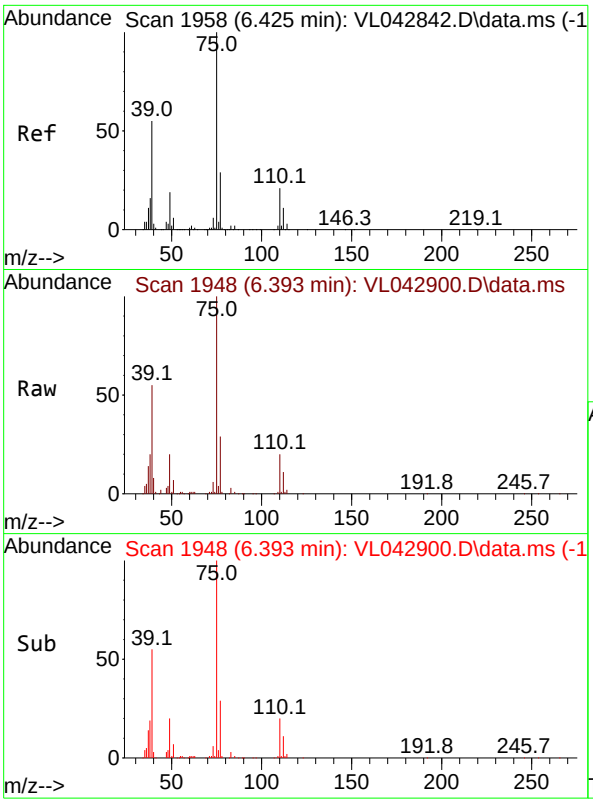


#44
2,2,4-Trimethylpentane
Concen: 11.642 ppbv
RT: 4.622 min Scan# 1401
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 57 Resp: 631245

Ion	Ratio	Lower	Upper
57	100		
41	32.0	24.8	37.2
56	32.2	25.5	38.3



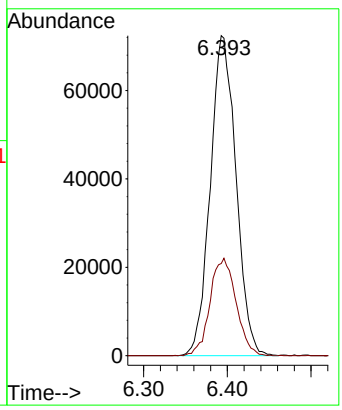


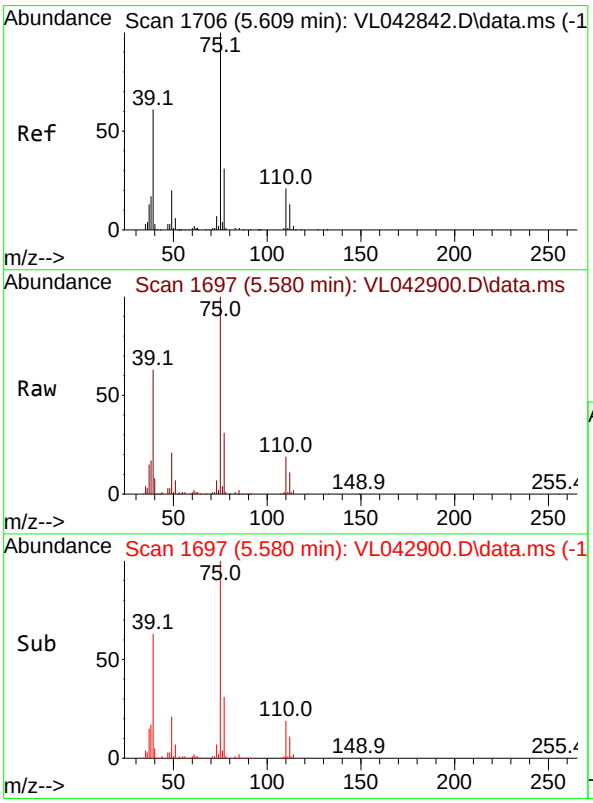
#45
t-1,3-Dichloropropene
Concen: 10.411 ppbv
RT: 6.393 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 75 Resp: 154622

Ion	Ratio	Lower	Upper
75	100		
77	28.8	23.8	35.6

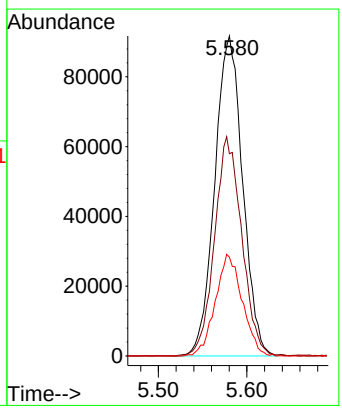


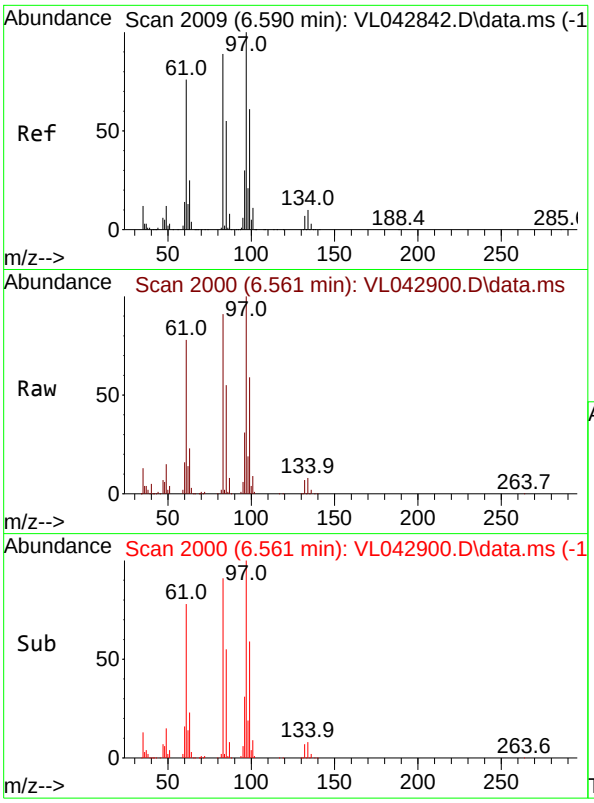


#46
cis-1,3-Dichloropropene
Concen: 10.851 ppbv
RT: 5.580 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 75 Resp: 200797

Ion	Ratio	Lower	Upper
75	100		
39	63.0	48.9	73.3
77	30.9	24.9	37.3



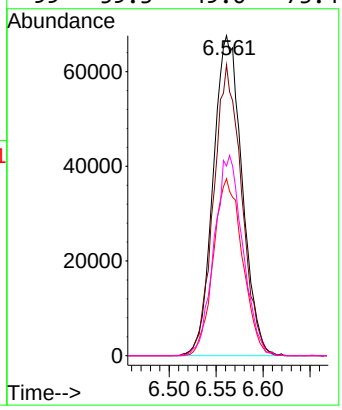


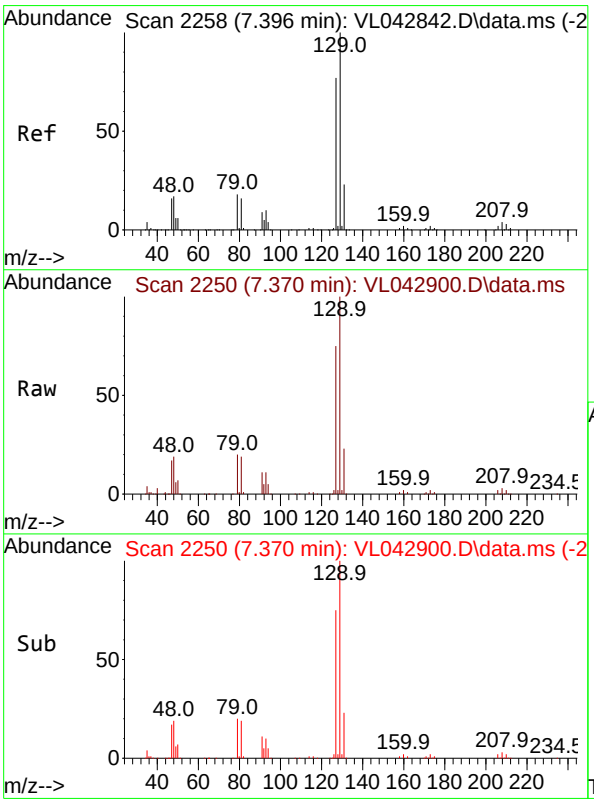
#47
1,1,2-Trichloroethane
Concen: 11.666 ppbv
RT: 6.561 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 97 Resp: 144209

Ion	Ratio	Lower	Upper
97	100		
83	90.9	71.0	106.4
85	55.2	43.6	65.4
99	59.3	49.0	73.4

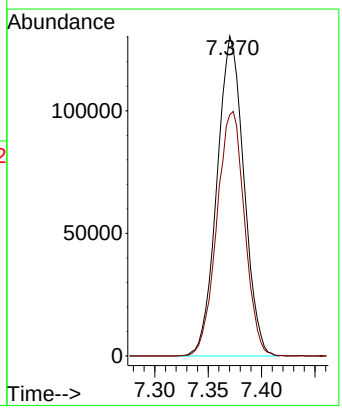


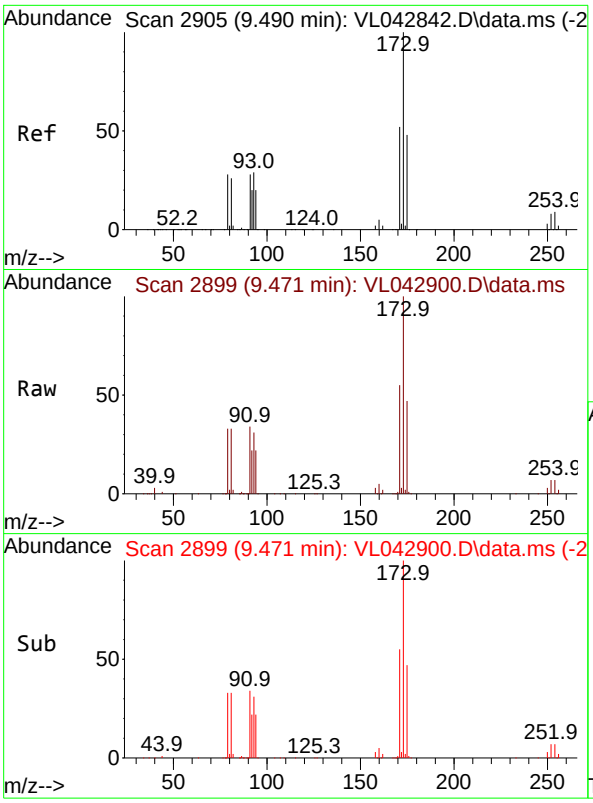


#48
Dibromochloromethane
Concen: 11.430 ppbv
RT: 7.370 min Scan# 2250
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion:129 Resp: 228649

Ion	Ratio	Lower	Upper
129	100		
127	78.7	39.4	118.2



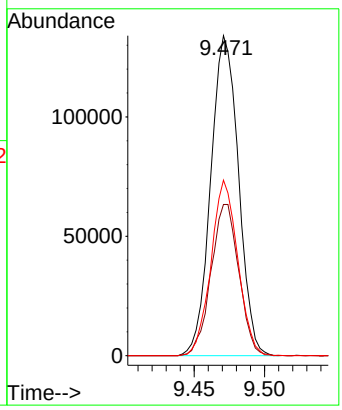


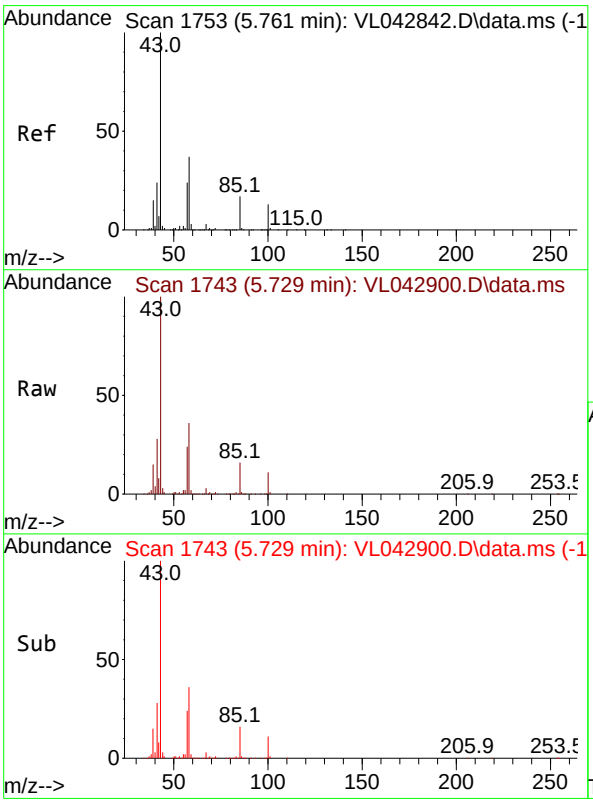
#49
Bromoform
Concen: 11.158 ppbv
RT: 9.471 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:173 Resp: 184068

Ion	Ratio	Lower	Upper
173	100		
175	47.4	39.2	58.8
171	52.8	41.3	61.9

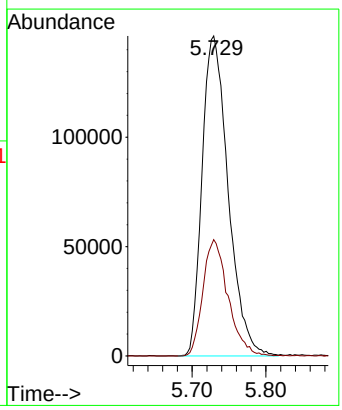


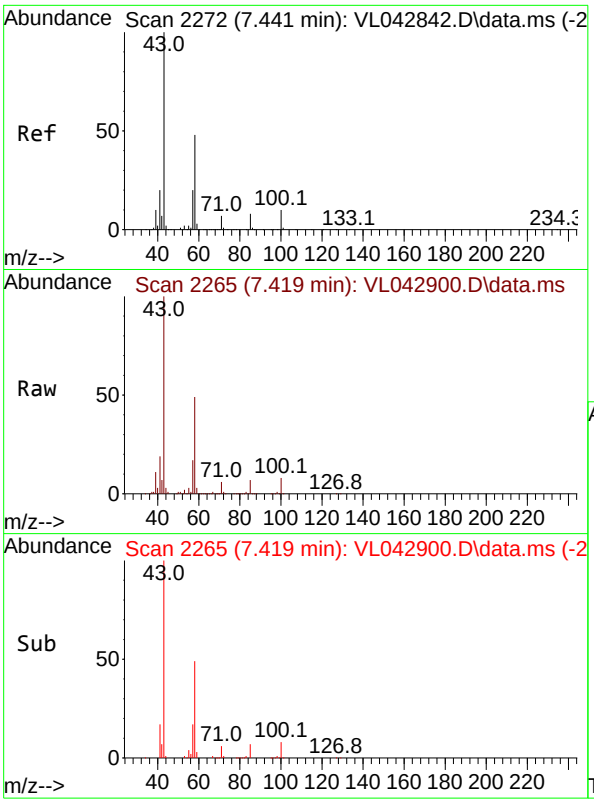


#50
4-Methyl-2-Pentanone
Concen: 11.801 ppbv
RT: 5.729 min Scan# 1743
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 43 Resp: 359329

Ion	Ratio	Lower	Upper
43	100		
58	35.0	29.8	44.8



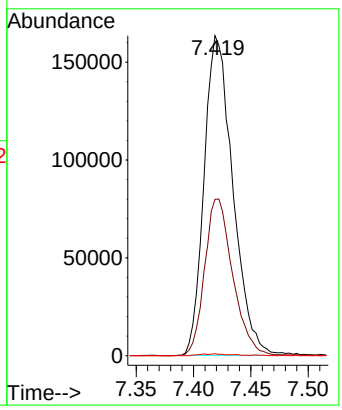


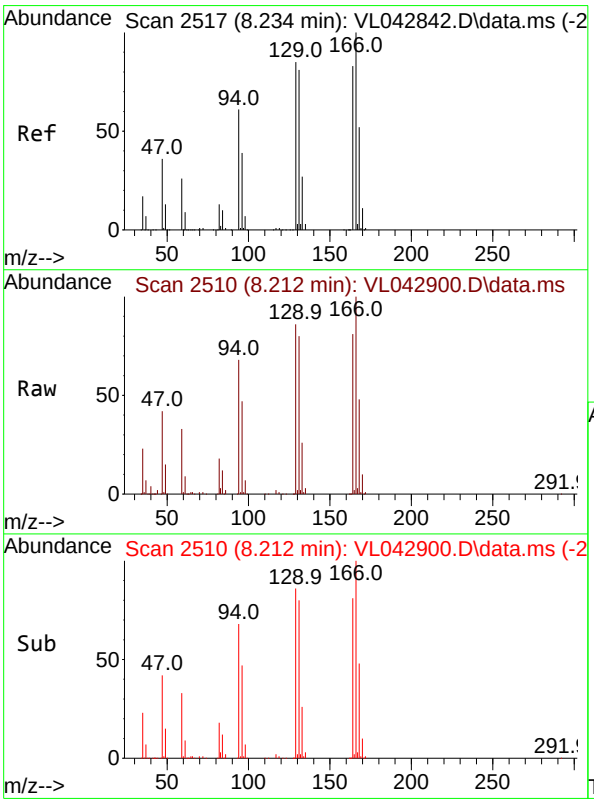
#51
2-Hexanone
Concen: 11.872 ppbv
RT: 7.419 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 43 Resp: 284454

Ion	Ratio	Lower	Upper
43	100		
58	48.1	41.0	61.6
98	0.7	0.1	0.1#

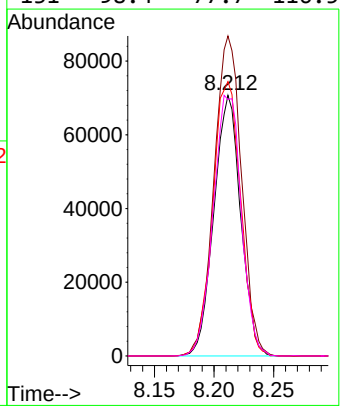


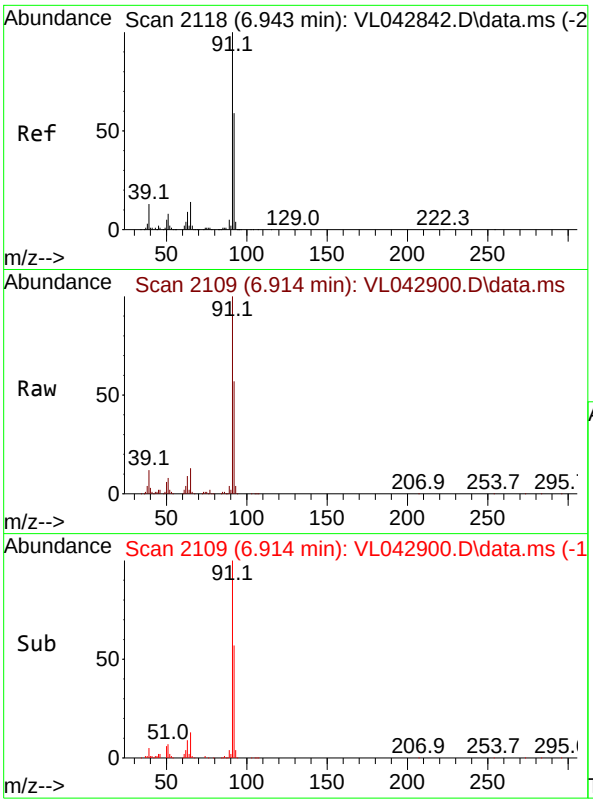


#52
Tetrachloroethene
Concen: 9.547 ppbv
RT: 8.212 min Scan# 2510
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion:164 Resp: 110334

Ion	Ratio	Lower	Upper
164	100		
166	122.8	96.5	144.7
129	105.2	81.8	122.6
131	98.4	77.7	116.5



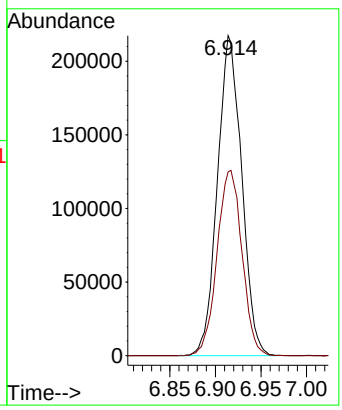


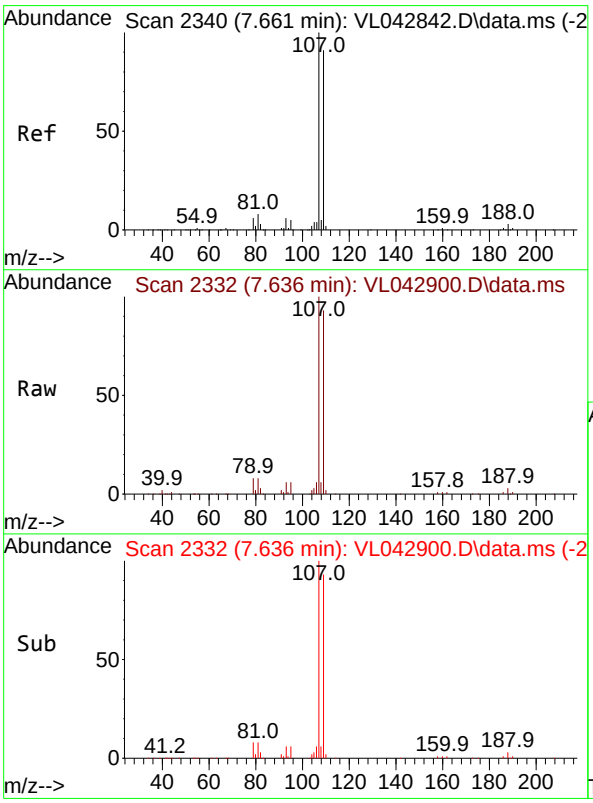
#53
Toluene
Concen: 10.587 ppbv
RT: 6.914 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 91 Resp: 402080

Ion	Ratio	Lower	Upper
91	100		
92	59.7	47.8	71.6

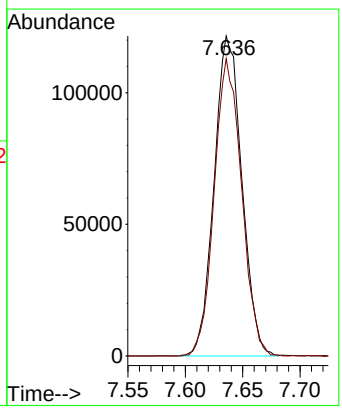


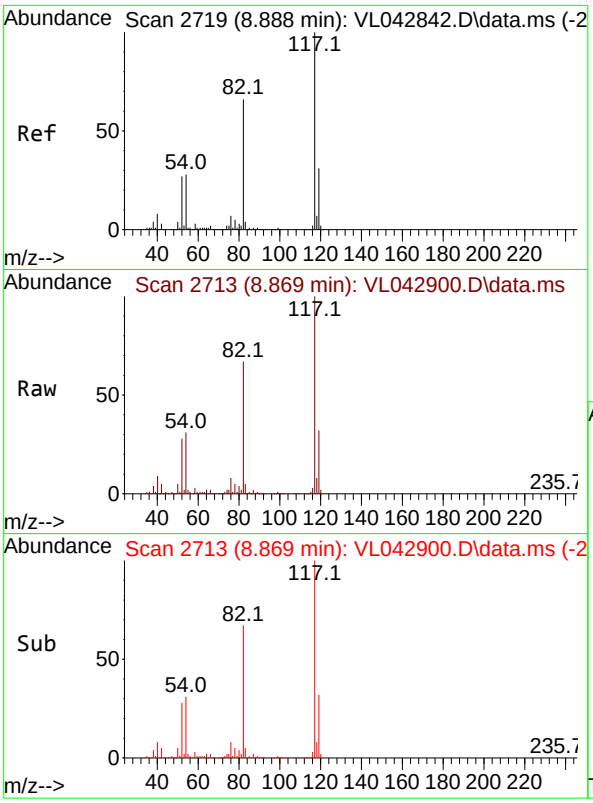


#54
1,2-Dibromoethane
Concen: 11.307 ppbv
RT: 7.636 min Scan# 2332
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion:107 Resp: 204276

Ion	Ratio	Lower	Upper
107	100		
109	92.9	72.5	108.7



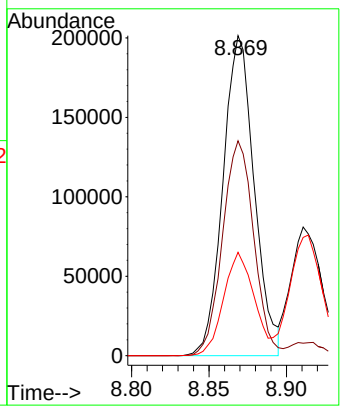


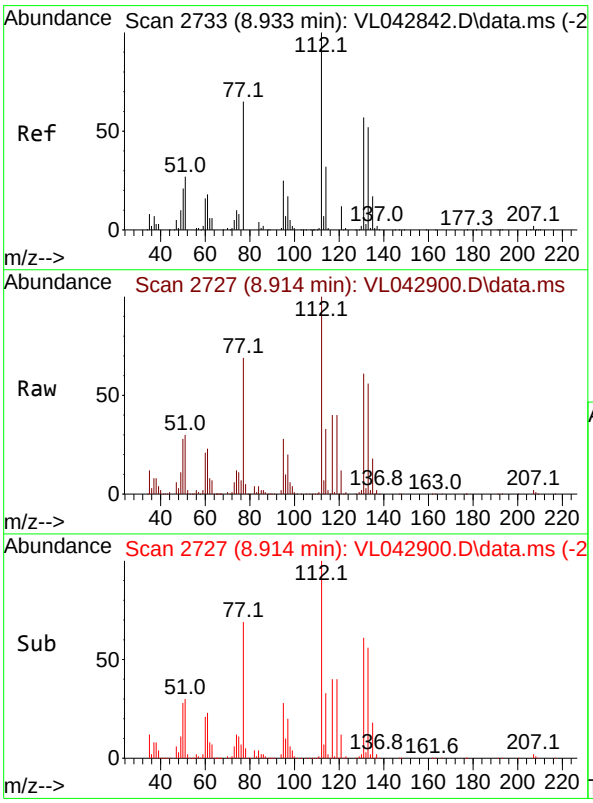
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.869 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:117 Resp: 282770

Ion	Ratio	Lower	Upper
117	100		
82	71.7	54.6	81.8
119	33.1	25.9	38.9

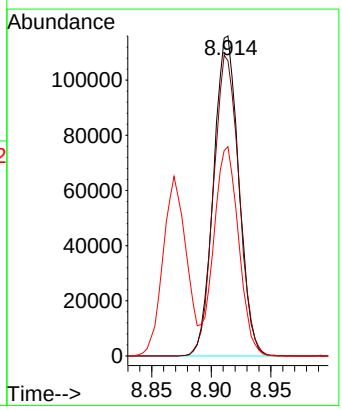


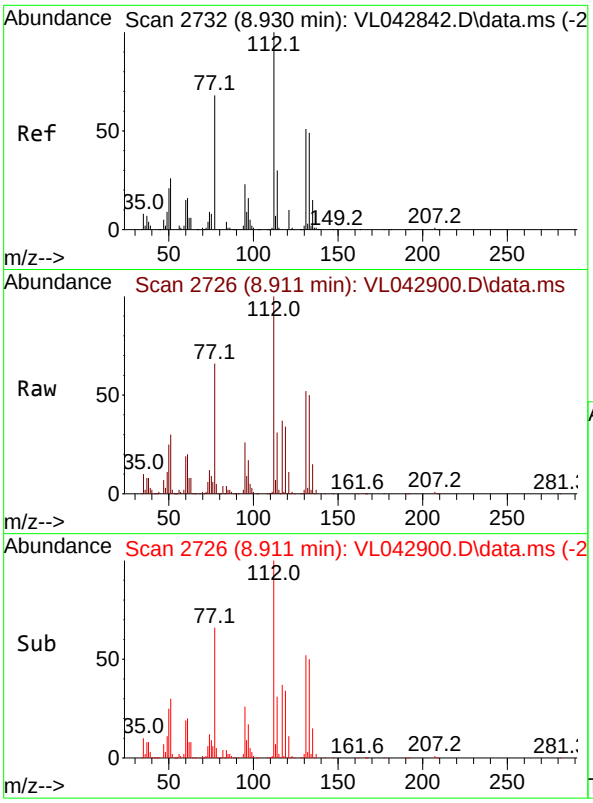


#56
1,1,1,2-Tetrachloroethane
Concen: 11.648 ppbv
RT: 8.914 min Scan# 2727
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion:131 Resp: 170319

Ion	Ratio	Lower	Upper
131	100		
133	95.2	77.4	116.0
119	63.9	51.2	76.8



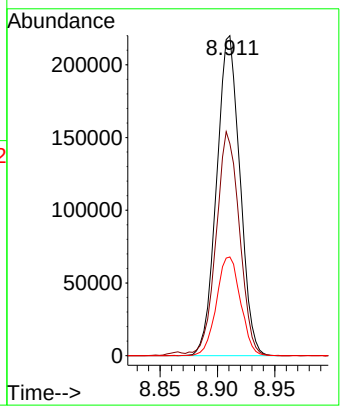


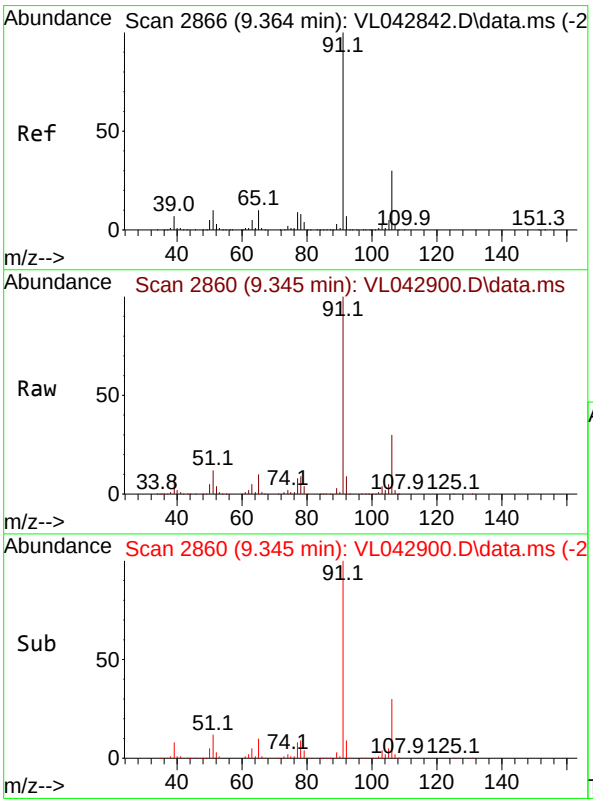
#57
Chlorobenzene
Concen: 11.581 ppbv
RT: 8.911 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:112 Resp: 311373

Ion	Ratio	Lower	Upper
112	100		
77	66.1	55.5	83.3
114	30.8	27.2	33.2

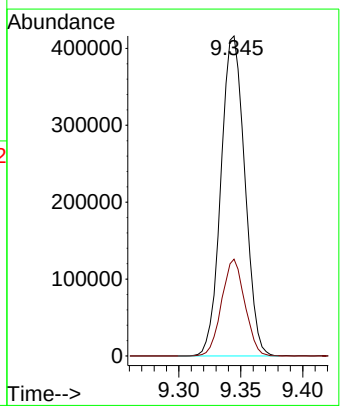


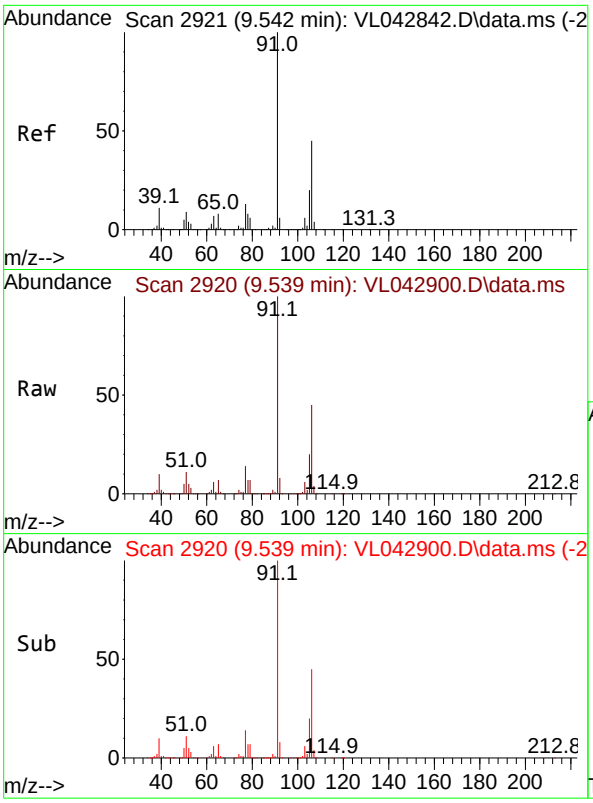


#58
Ethyl Benzene
Concen: 11.184 ppbv
RT: 9.345 min Scan# 2860
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 91 Resp: 558102

Ion	Ratio	Lower	Upper
91	100		
106	30.3	23.9	35.9



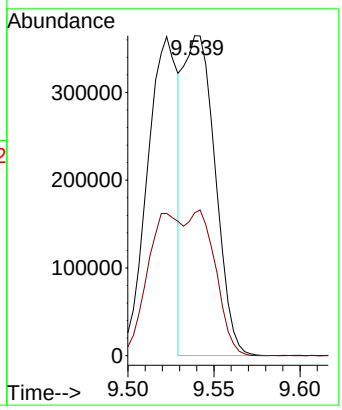


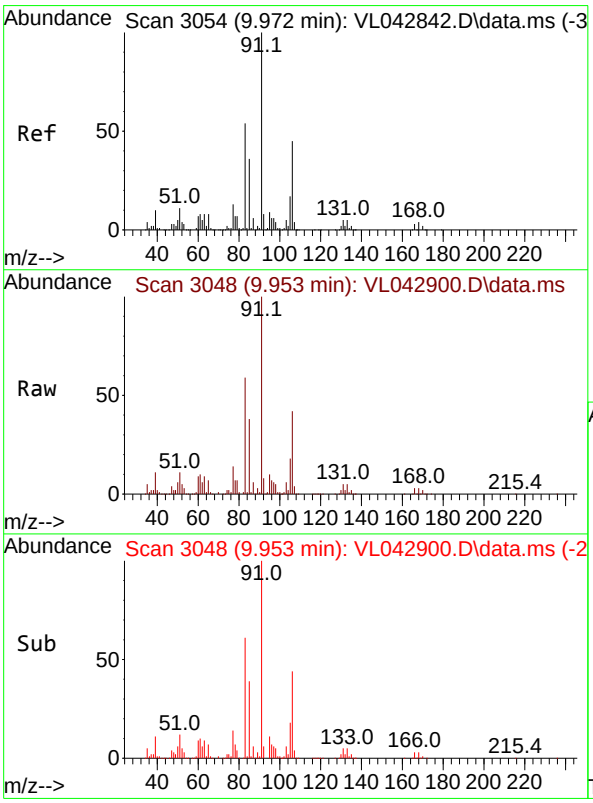
#59
m/p-Xylene
Concen: 11.981 ppbv
RT: 9.539 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 91 Resp: 468620

Ion	Ratio	Lower	Upper
91	100		
106	89.4	0.0	0.0#

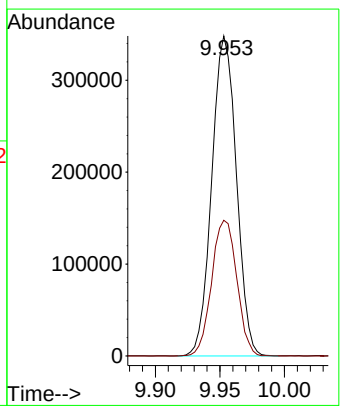


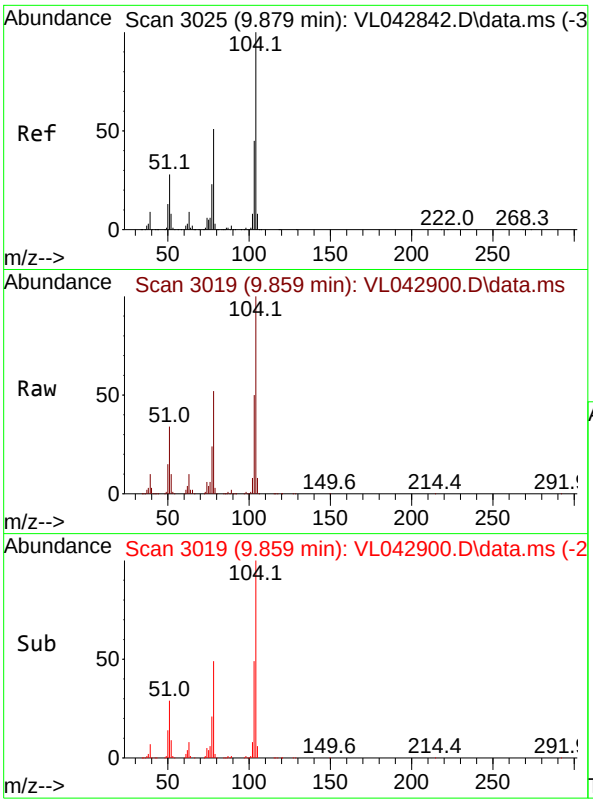


#60
o-Xylene
Concen: 11.716 ppbv
RT: 9.953 min Scan# 3048
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 91 Resp: 460968

Ion	Ratio	Lower	Upper
91	100		
106	43.4	21.8	65.4



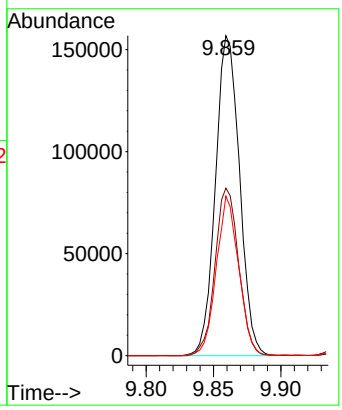


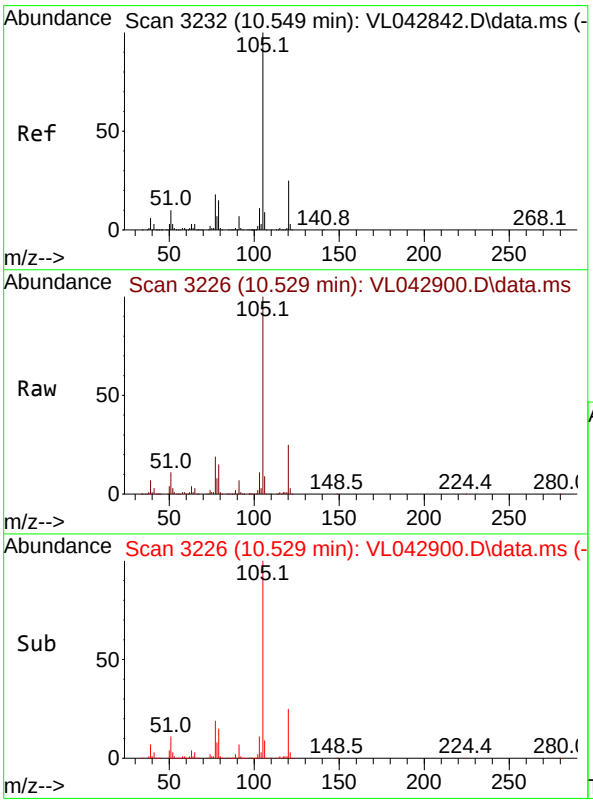
#61
Styrene
Concen: 10.579 ppbv
RT: 9.859 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:104 Resp: 195007

Ion	Ratio	Lower	Upper
104	100		
78	51.3	40.6	61.0
103	46.6	37.7	56.5

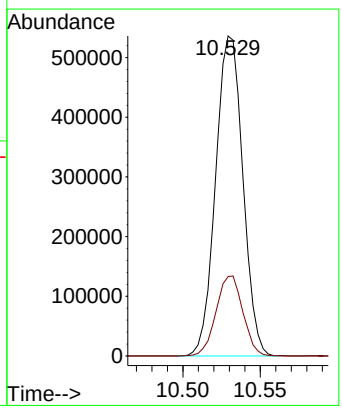


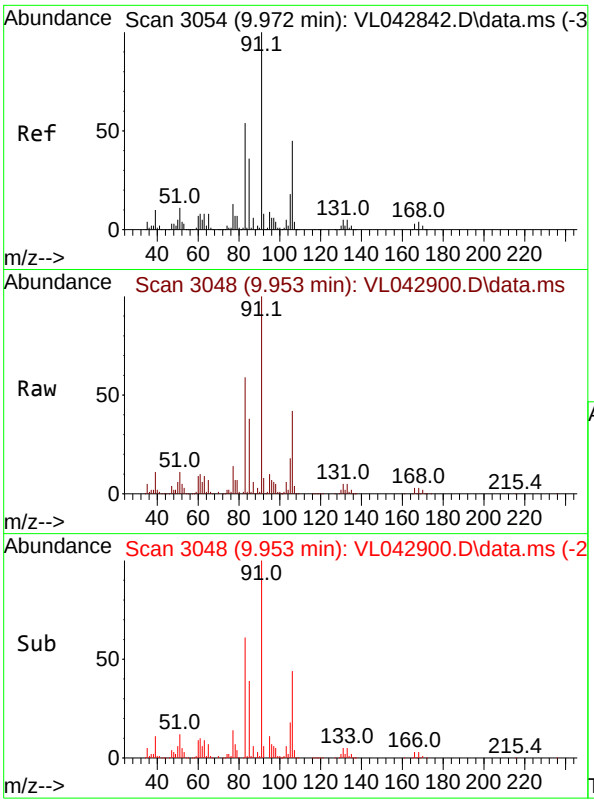


#62
Isopropylbenzene
Concen: 11.394 ppbv
RT: 10.529 min Scan# 3226
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion:105 Resp: 655164

Ion	Ratio	Lower	Upper
105	100		
120	24.5	20.6	30.8



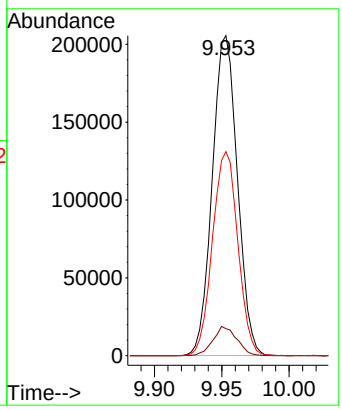


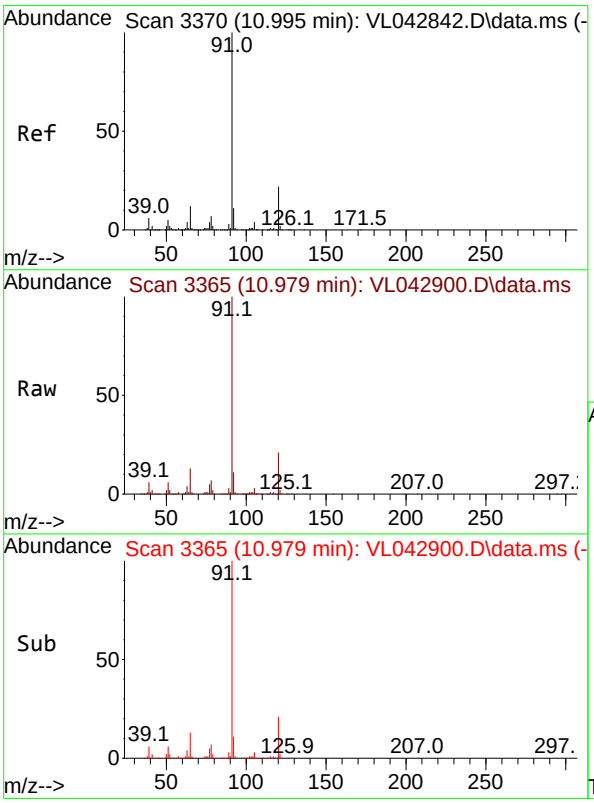
#63
1,1,2,2-Tetrachloroethane
Concen: 12.314 ppbv
RT: 9.953 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 83 Resp: 266435

Ion	Ratio	Lower	Upper
83	100		
131	8.7	4.8	14.3
85	64.5	32.3	96.8

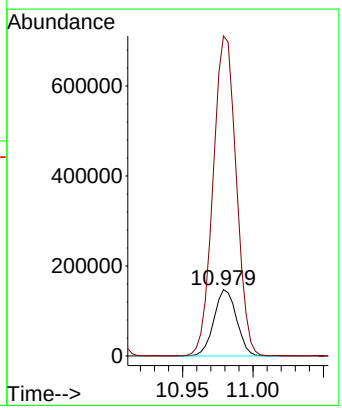


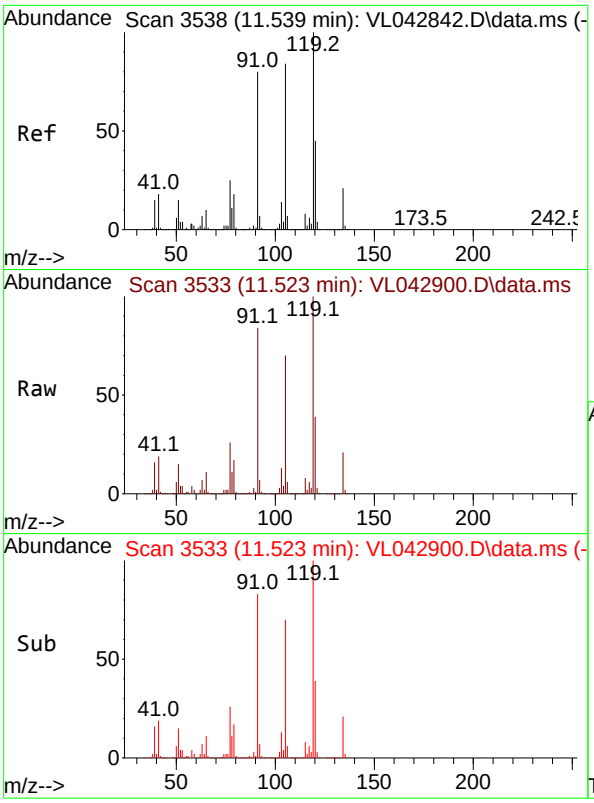


#64
n-propylbenzene
Concen: 11.220 ppbv
RT: 10.979 min Scan# 3365
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion:120 Resp: 164610

Ion	Ratio	Lower	Upper
120	100		
91	495.9	375.8	563.6



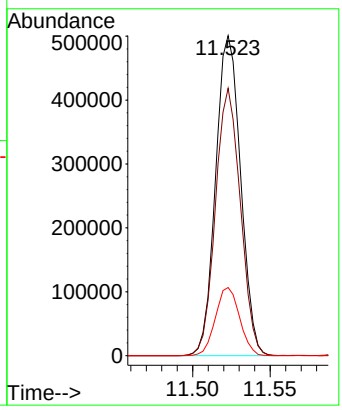


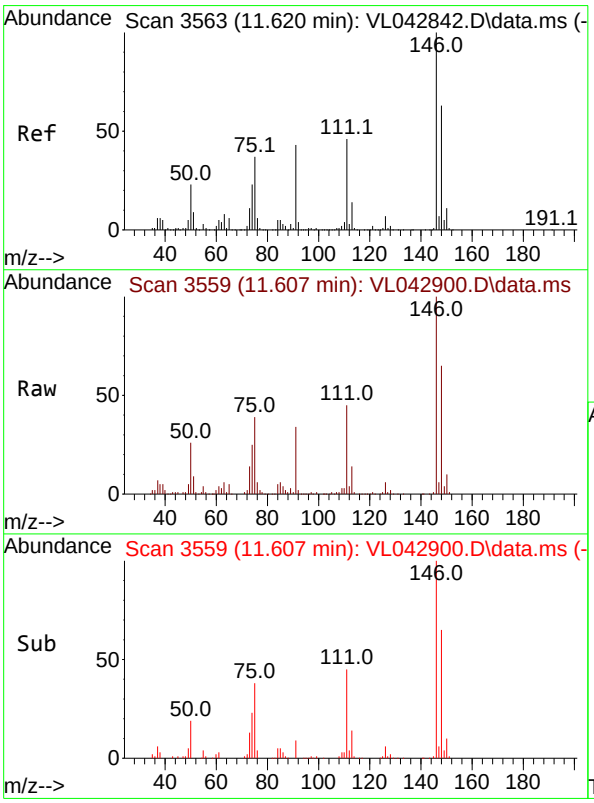
#65
tert-Butylbenzene
Concen: 11.075 ppbv
RT: 11.523 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:119 Resp: 561409

Ion	Ratio	Lower	Upper
119	100		
91	83.4	63.9	95.9
134	20.6	17.0	25.4

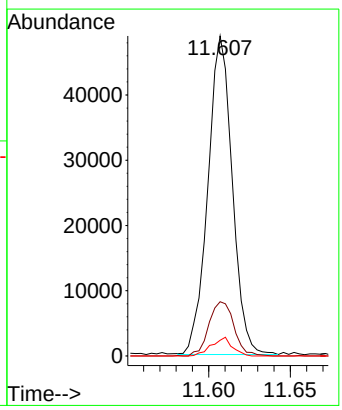


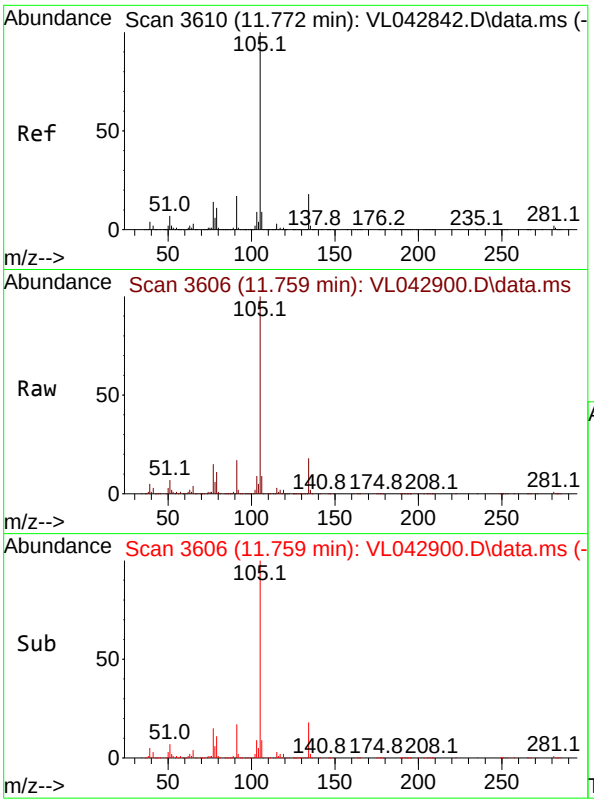


#66
Benzyl Chloride
Concen: 7.895 ppbv
RT: 11.607 min Scan# 3559
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 91 Resp: 50803

Ion	Ratio	Lower	Upper
91	100		
126	17.5	14.2	21.4
128	5.0	5.0	7.6#



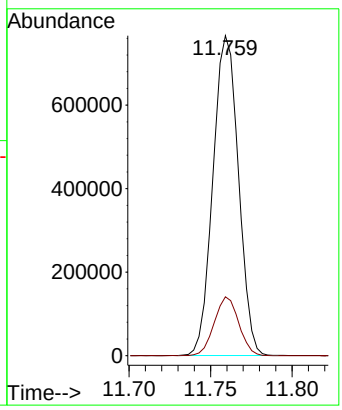


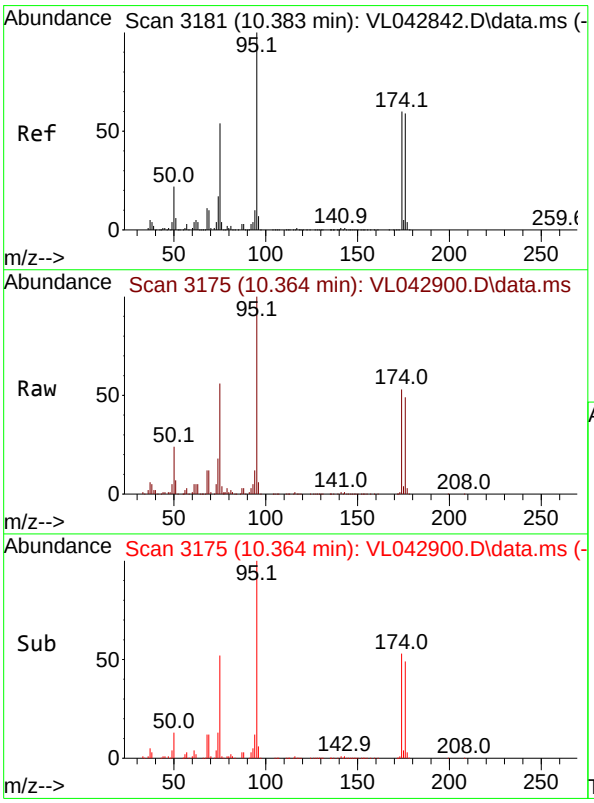
#67
sec-Butylbenzene
Concen: 11.709 ppbv
RT: 11.759 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:105 Resp: 833114

Ion	Ratio	Lower	Upper
105	100		
134	17.7	14.9	22.3

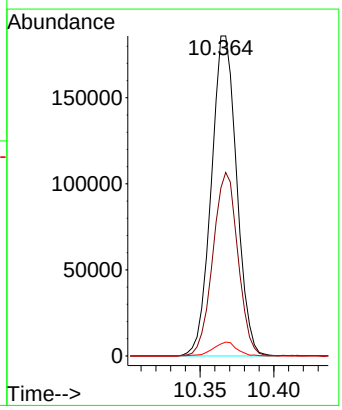


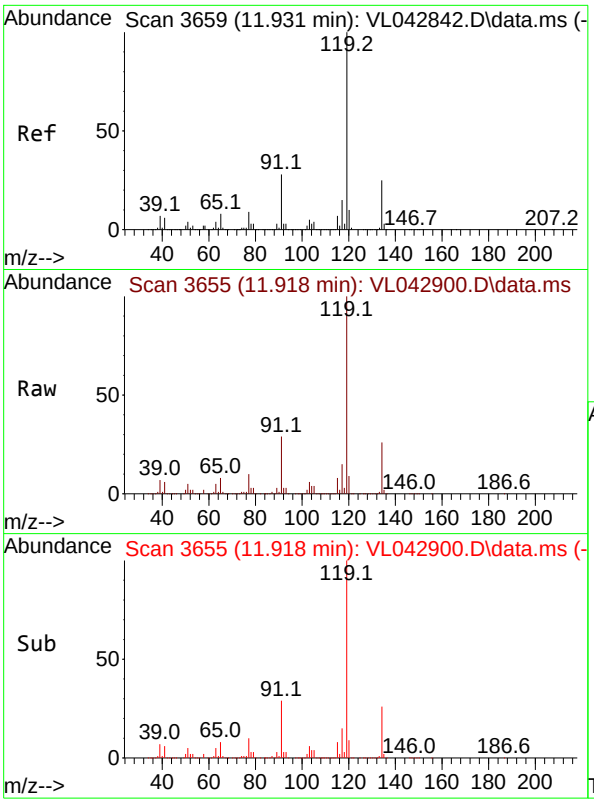


#68
1-Bromo-4-Fluorobenzene
Concen: 10.483 ppbv
RT: 10.364 min Scan# 3175
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 95 Resp: 222314

Ion	Ratio	Lower	Upper
95	100		
174	56.8	48.4	72.6
175	4.1	3.8	5.8



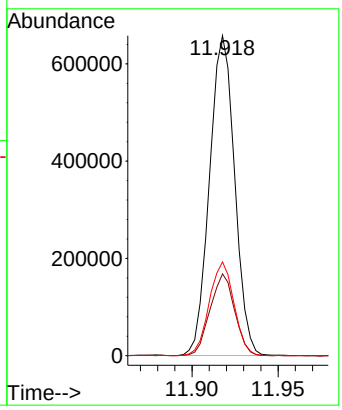


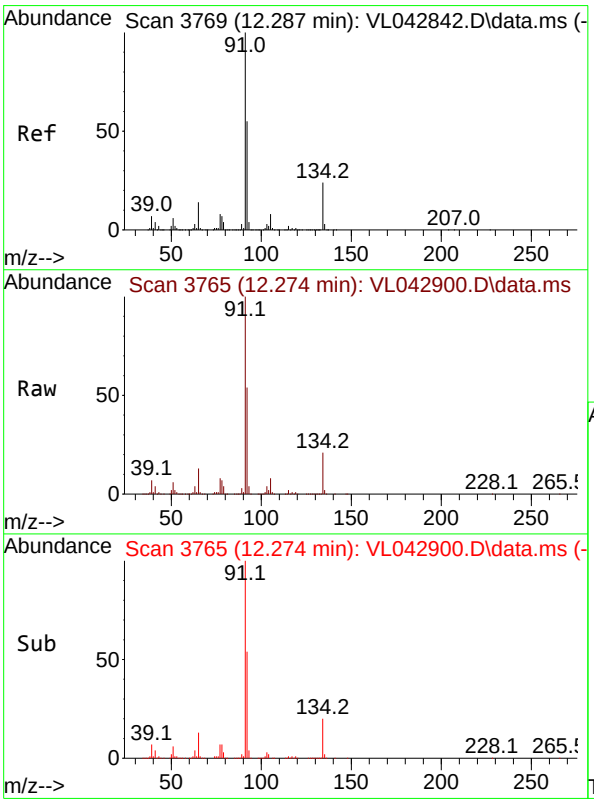
#69
p-Isopropyltoluene
Concen: 10.929 ppbv
RT: 11.918 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:119 Resp: 667558

Ion	Ratio	Lower	Upper
119	100		
134	25.1	20.6	30.8
91	29.0	22.6	34.0

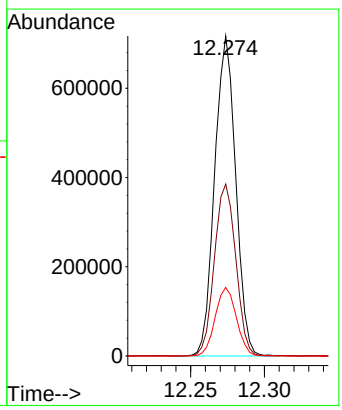


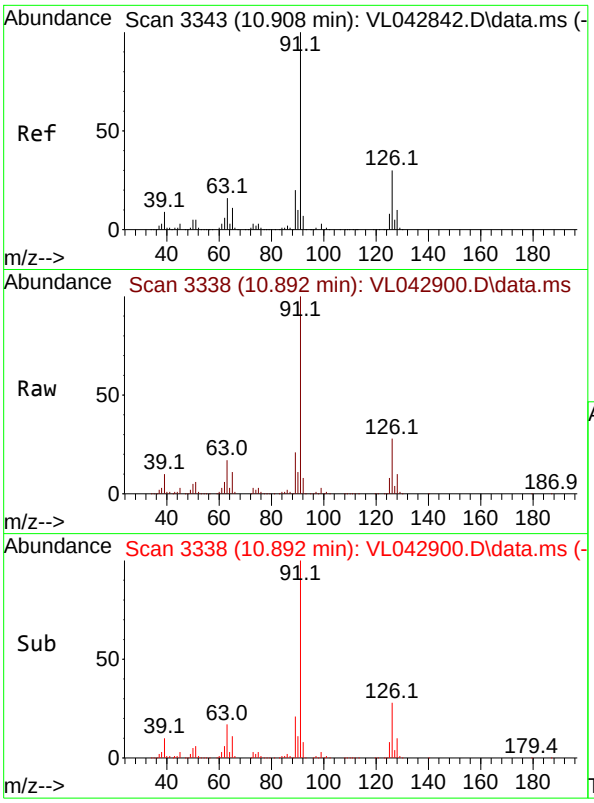


#70
n-Butylbenzene
Concen: 11.736 ppbv
RT: 12.274 min Scan# 3765
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion: 91 Resp: 711012

Ion	Ratio	Lower	Upper
91	100		
92	54.7	44.6	66.8
134	21.6	19.0	28.4



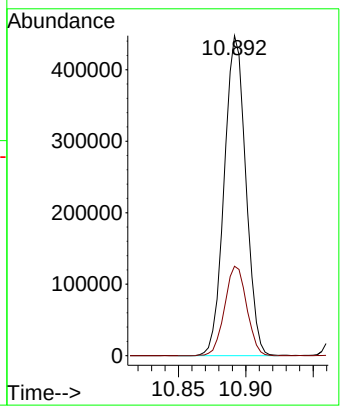


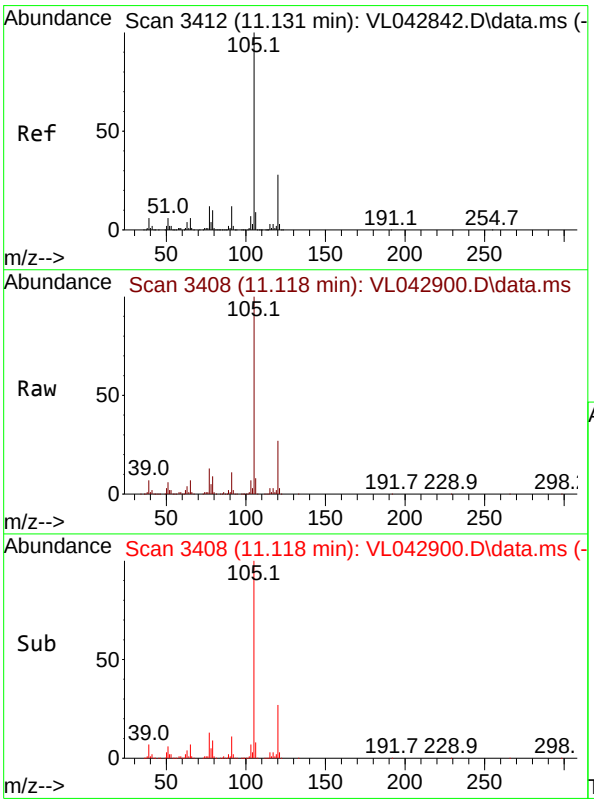
#71
2-Chlorotoluene
Concen: 11.156 ppbv
RT: 10.892 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 91 Resp: 498072

Ion	Ratio	Lower	Upper
91	100		
126	28.5	12.0	47.8

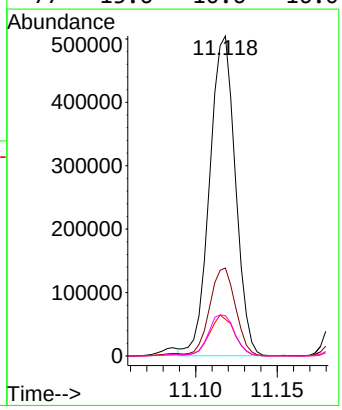


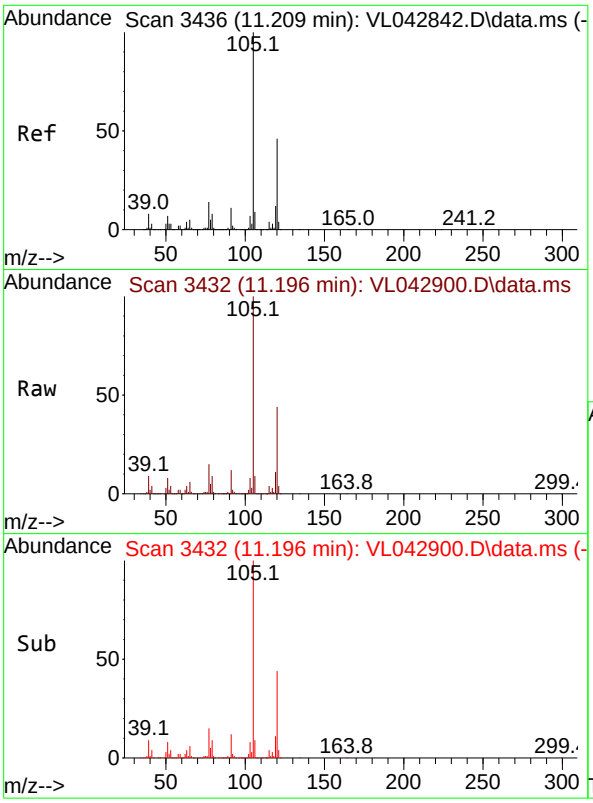


#72
4-Ethyltoluene
Concen: 11.624 ppbv
RT: 11.118 min Scan# 3408
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion:105 Resp: 554411

Ion	Ratio	Lower	Upper
105	100		
120	28.3	23.4	35.2
91	12.9	9.8	14.6
77	13.6	10.6	16.0



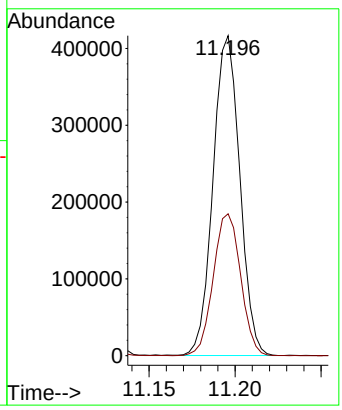


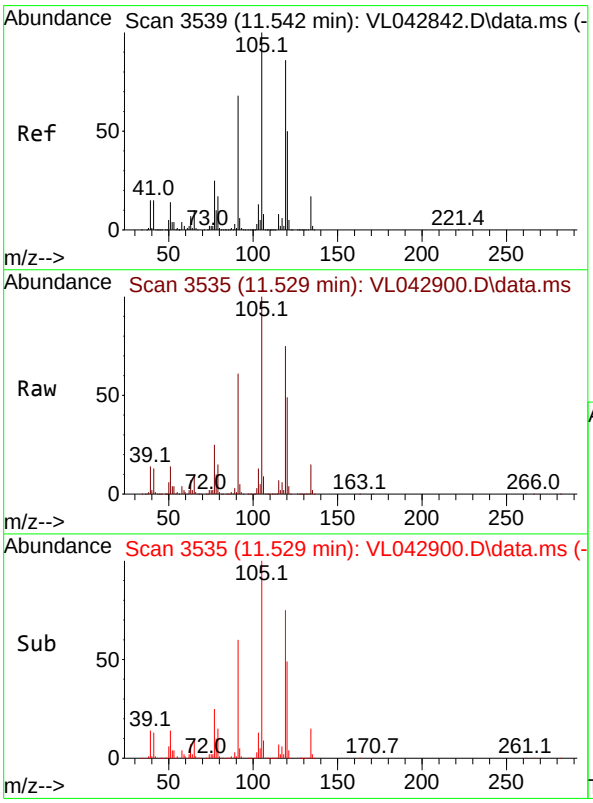
#73
1,3,5-Trimethylbenzene
Concen: 11.105 ppbv
RT: 11.196 min Scan# 34
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:105 Resp: 450409

Ion	Ratio	Lower	Upper
105	100		
120	44.3	36.6	54.8

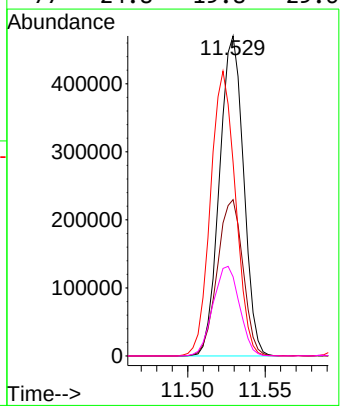


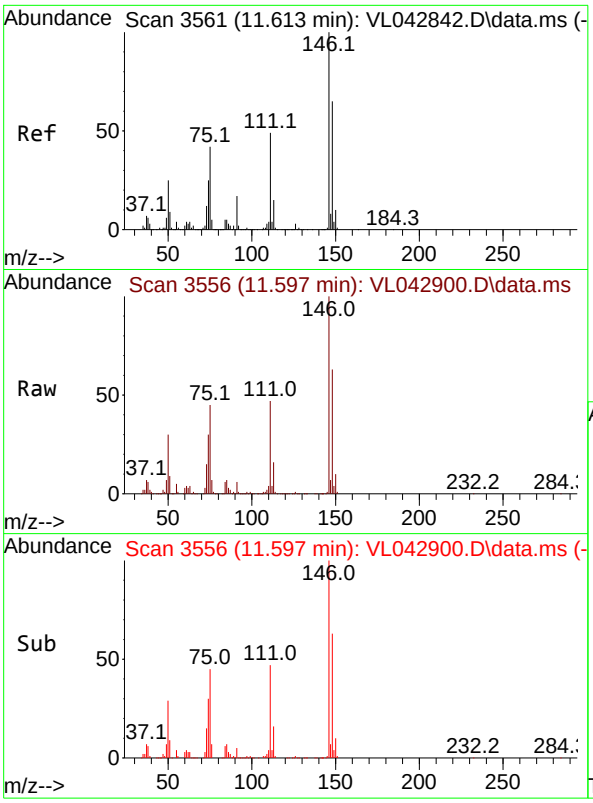


#74
1,2,4-Trimethylbenzene
Concen: 11.424 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion:105 Resp: 508605

Ion	Ratio	Lower	Upper
105	100		
120	48.8	39.8	59.6
91	60.5	54.2	81.4
77	24.8	19.8	29.6



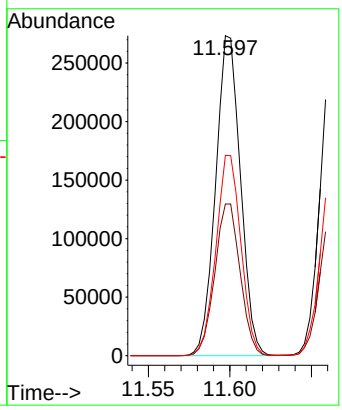


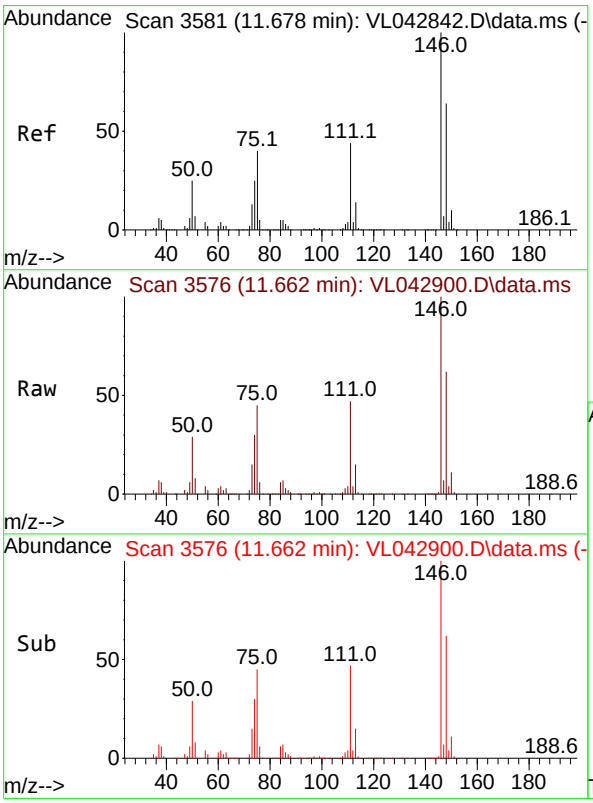
#75
1,3-Dichlorobenzene
Concen: 11.445 ppbv
RT: 11.597 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:146 Resp: 289650

Ion	Ratio	Lower	Upper
146	100		
111	48.4	23.9	71.7
148	63.1	31.4	94.0

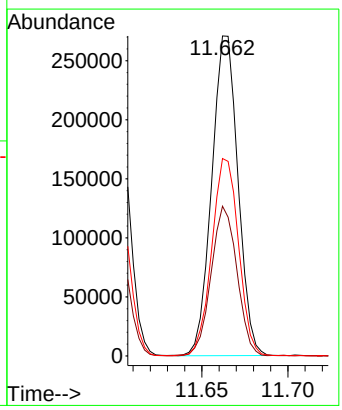


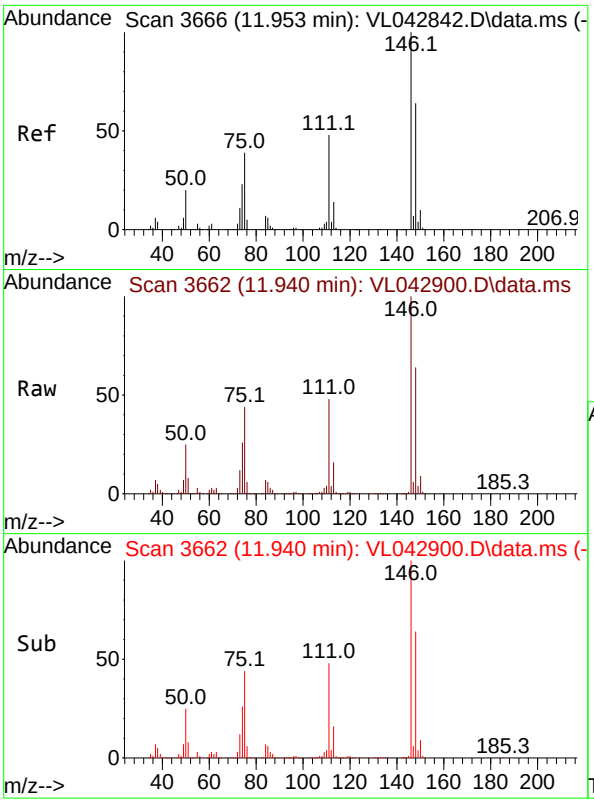


#76
1,4-Dichlorobenzene
Concen: 11.226 ppbv
RT: 11.662 min Scan# 3576
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion:146 Resp: 287352

Ion	Ratio	Lower	Upper
146	100		
111	46.3	22.7	68.1
148	63.2	31.8	95.3



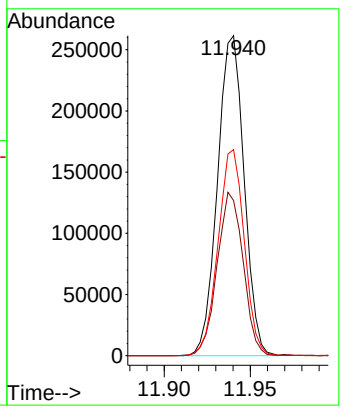


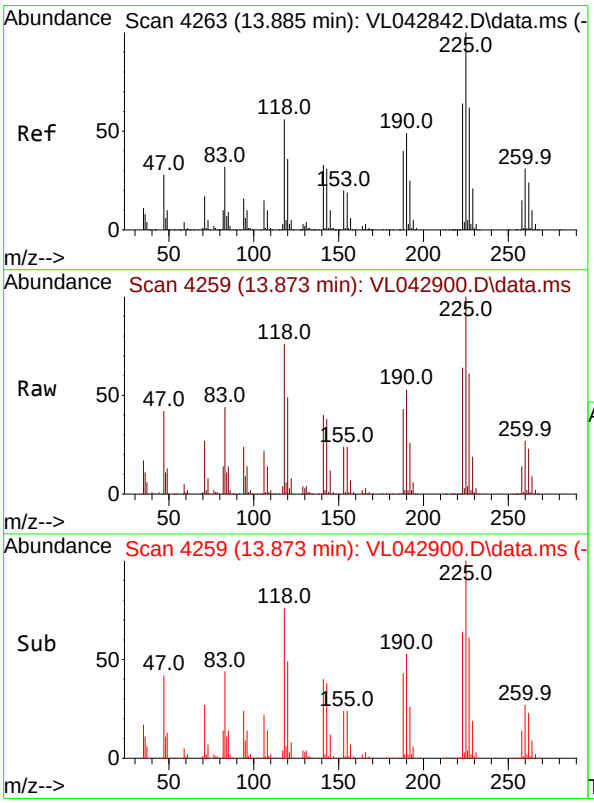
#77
1,2-Dichlorobenzene
Concen: 11.351 ppbv
RT: 11.940 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:146 Resp: 281307

Ion	Ratio	Lower	Upper
146	100		
111	50.0	24.6	74.0
148	63.5	32.0	96.0

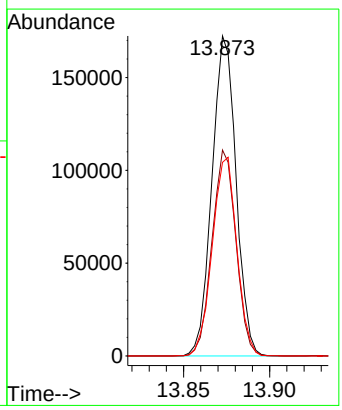


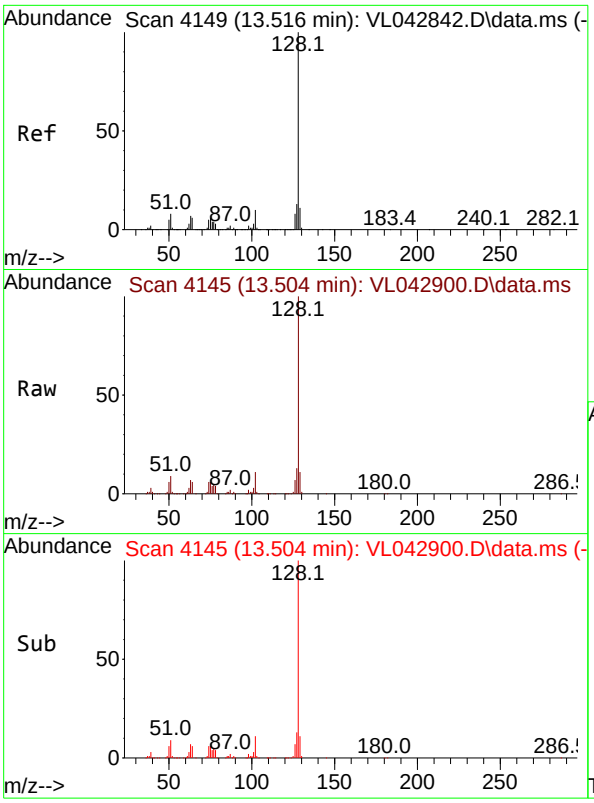


#78
Hexachloro-1,3-Butadiene
Concen: 8.266 ppbv
RT: 13.873 min Scan# 4259
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion:225 Resp: 167893

Ion	Ratio	Lower	Upper
225	100		
223	63.8	51.4	77.2
227	63.3	51.9	77.9



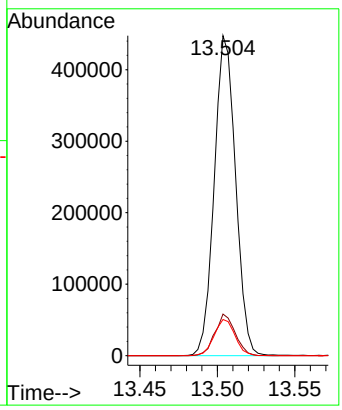


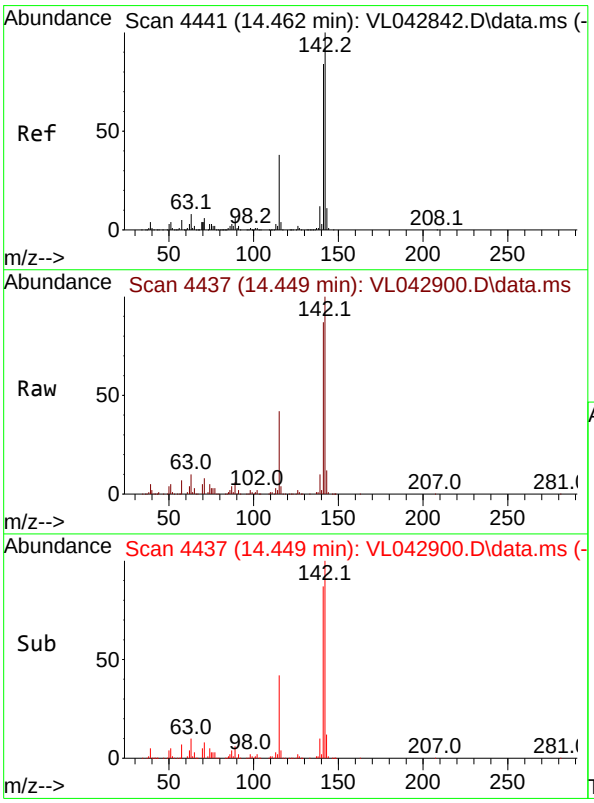
#79
Naphthalene
Concen: 10.613 ppbv
RT: 13.504 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:128 Resp: 428355

Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.6	16.0
129	11.3	8.9	13.3

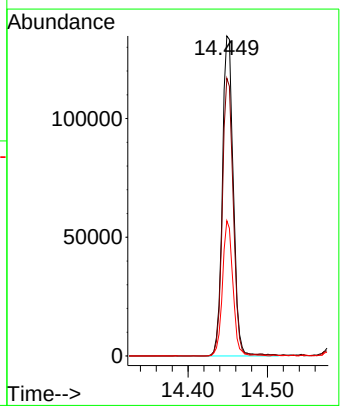


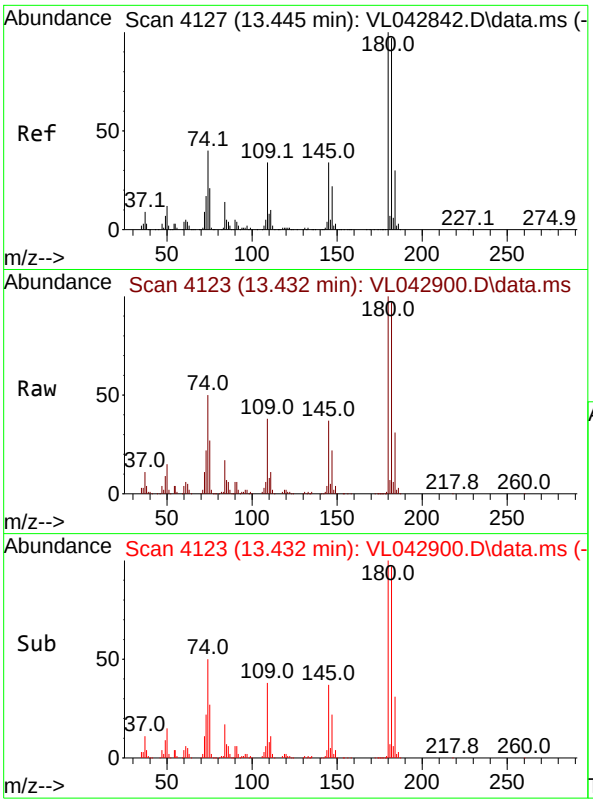


#80
Naphthalene,2-methyl-
Concen: 8.470 ppbv
RT: 14.449 min Scan# 4437
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Tgt Ion:142 Resp: 127751

Ion	Ratio	Lower	Upper
142	100		
141	87.4	67.0	100.6
115	40.4	30.9	46.3



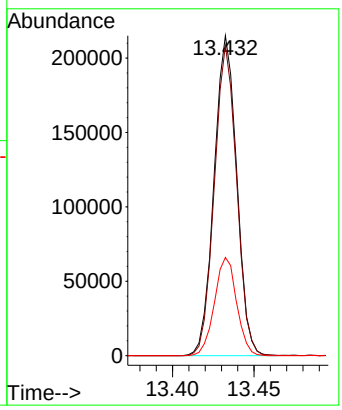


#81
1,2,4-Trichlorobenzene
Concen: 10.226 ppbv
RT: 13.432 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042900.D
Acq: 08 Sep 2025 11:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:180 Resp: 207455

Ion	Ratio	Lower	Upper
180	100		
182	95.4	76.9	115.3
184	30.0	24.5	36.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
Data File : VL042902.D
Acq On : 08 Sep 2025 13:35
Operator : SY/MD
Sample : VL0908ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Quant Time: Sep 09 00:55:51 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 : Tue Sep 09 00:52:26 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.781	49	139945	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.946	114	365857	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	306385	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.367	95	240840	10.481	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 104.800%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.492	85	220085	10.731	ppbv	99
3) Chlorodifluoromethane	1.470	51	263595	11.627	ppbv	98
4) Chloromethane	1.528	50	84783	10.244	ppbv	99
5) Vinyl Chloride	1.577	62	78545	9.636	ppbv	99
6) Bromomethane	1.664	94	31405	9.636	ppbv	96
7) Chloroethane	1.700	64	30810	9.679	ppbv	94
8) Dichlorotetrafluoroethane	1.551	85	175617	10.464	ppbv	96
9) Propene	1.881	41	9206	0.940	ppbv	99
10) Heptane	4.965	43	256593	9.785	ppbv	99
11) Trichlorofluoromethane	1.871	101	206104	10.185	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.133	101	164464	10.197	ppbv	96
13) Ethanol	1.716	45	7225	8.071	ppbv	92
14) Bromoethene	1.777	108	58442	10.009	ppbv	99
15) Acetone	1.829	43	156147	8.435	ppbv	99
16) 1,3-Butadiene	1.606	39	77632	9.250	ppbv	97
17) tert-Butyl alcohol	2.036	59	176056	8.020	ppbv	99
18) 1,1-Dichloroethene	2.026	96	68830	9.707	ppbv	97
19) Isopropyl Alcohol	1.881	45	97198	8.791	ppbv	93
20) Methylene Chloride	2.056	84	62334	8.038	ppbv	93
21) Allyl Chloride	2.091	41	125191	9.573	ppbv	94
22) trans-1,2-Dichloroethene	2.334	96	82077	10.005	ppbv	98
23) Vinyl Acetate	2.454	43	270676	10.634	ppbv #	99
24) 1,1-Dichloroethane	2.402	63	164910	10.066	ppbv	99
25) Ethyl Acetate	2.826	43	458640	10.237	ppbv	99
26) Hexane	2.816	57	207705	10.043	ppbv	95
27) Carbon Disulfide	2.143	76	206751	10.273	ppbv	98
28) Methyl tert-Butyl Ether	2.431	73	95768	9.082	ppbv	93
29) Chloroform	2.839	83	311859	10.562	ppbv	97
30) Cyclohexane	3.845	84	169353	9.340	ppbv	96
31) cis-1,2-Dichloroethene	2.713	61	202349	9.796	ppbv	97
32) 1,1,1-Trichloroethane	3.357	97	293618	9.409	ppbv	96
34) 2-Butanone	2.551	43	298071	12.066	ppbv	98
35) Carbon Tetrachloride	3.748	117	297085	11.779	ppbv	98
36) Benzene	3.645	78	407263	11.625	ppbv	99
37) 1,2-Dichloroethane	3.208	62	232809	12.720	ppbv	99
38) Trichloroethene	4.532	130	166529	10.408	ppbv	96
39) 1,2-Dichloropropane	4.302	63	153042	11.961	ppbv	96
40) 1,4-Dioxane	4.567	88	61682	10.138	ppbv #	88
41) Tetrahydrofuran	3.046	42	164268	11.927	ppbv	97
42) Bromodichloromethane	4.473	83	336858	12.351	ppbv	98
43) Methyl Methacrylate	4.862	69	158457	10.979	ppbv	98
44) 2,2,4-Trimethylpentane	4.625	57	701486	11.797	ppbv	98
45) t-1,3-Dichloropropene	6.399	75	169435	10.403	ppbv	97

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
Data File : VL042902.D
Acq On : 08 Sep 2025 13:35
Operator : SY/MD
Sample : VL0908ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Quant Time: Sep 09 00:55:51 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 : Tue Sep 09 00:52:26 2025
Response via : Initial Calibration

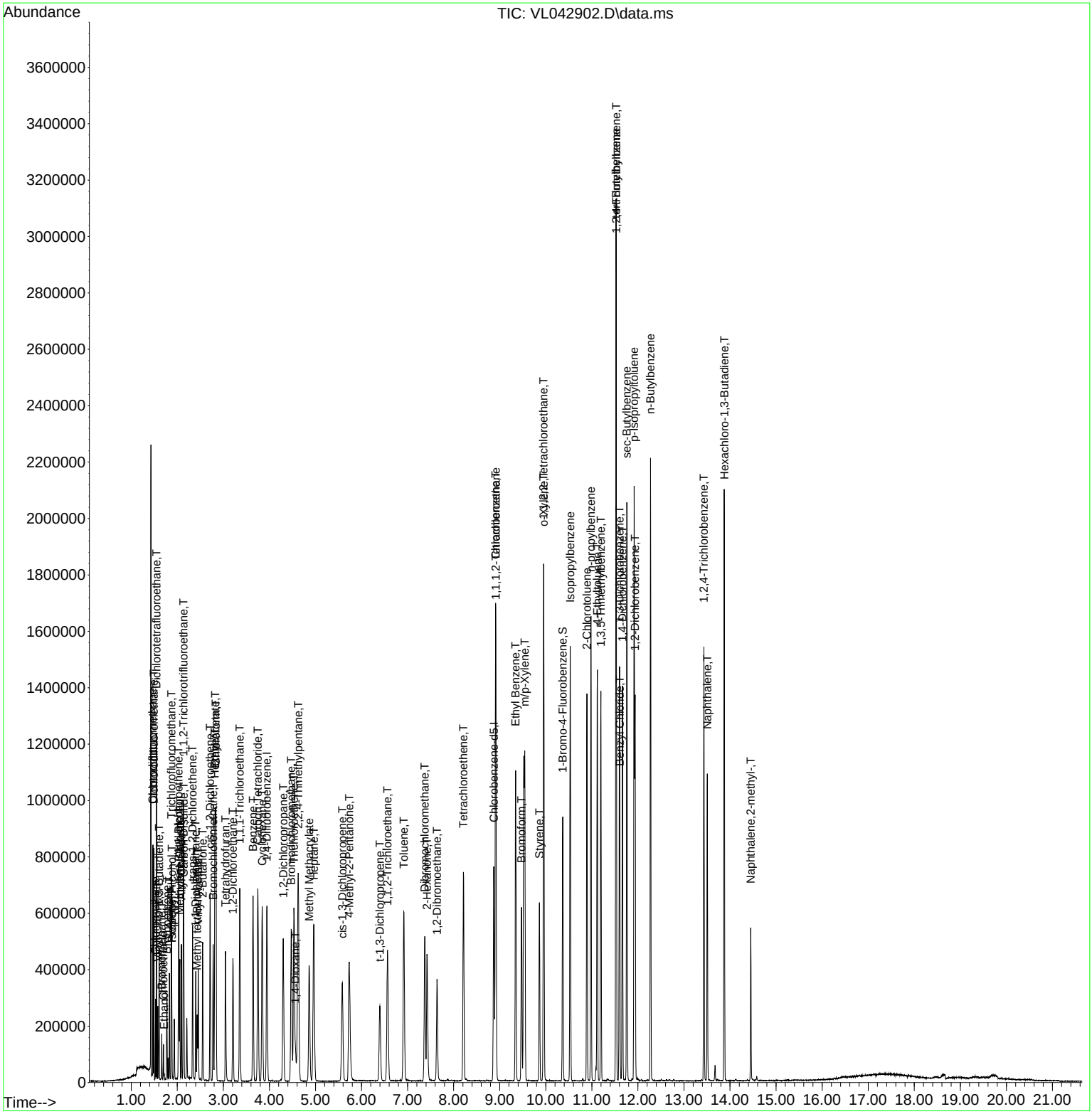
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46)	cis-1,3-Dichloropropene	5.583	75	223871	11.031	ppbv		96
47)	1,1,2-Trichloroethane	6.564	97	156460	11.541	ppbv		95
48)	Dibromochloromethane	7.373	129	256923	11.712	ppbv		99
49)	Bromoform	9.474	173	203018	11.222	ppbv		99
50)	4-Methyl-2-Pentanone	5.732	43	390291	11.688	ppbv		97
51)	2-Hexanone	7.422	43	311589	11.858	ppbv	#	95
52)	Tetrachloroethene	8.212	164	122229	9.644	ppbv		93
53)	Toluene	6.920	91	447844	10.752	ppbv		99
54)	1,2-Dibromoethane	7.639	107	223417	11.277	ppbv		96
56)	1,1,1,2-Tetrachloroethane	8.917	131	190922	12.050	ppbv		98
57)	Chlorobenzene	8.911	112	345342	11.855	ppbv		99
58)	Ethyl Benzene	9.344	91	618650	11.442	ppbv		99
59)	m/p-Xylene	9.542	91	483410	11.407	ppbv	#	100
60)	o-Xylene	9.956	91	504922	11.844	ppbv		99
61)	Styrene	9.862	104	212594	10.644	ppbv		100
62)	Isopropylbenzene	10.532	105	717761	11.521	ppbv		99
63)	1,1,2,2-Tetrachloroethane	9.953	83	295111	12.588	ppbv		99
64)	n-propylbenzene	10.982	120	186258	11.717	ppbv		94
65)	tert-Butylbenzene	11.523	119	633844	11.541	ppbv		97
66)	Benzyl Chloride	11.607	91	55458	7.954	ppbv		99
67)	sec-Butylbenzene	11.759	105	904977	11.739	ppbv		99
69)	p-Isopropyltoluene	11.918	119	743217	11.229	ppbv		98
70)	n-Butylbenzene	12.274	91	793205	12.084	ppbv		97
71)	2-Chlorotoluene	10.892	91	551398	11.398	ppbv		97
72)	4-Ethyltoluene	11.118	105	613510	11.871	ppbv		99
73)	1,3,5-Trimethylbenzene	11.196	105	505222	11.496	ppbv		100
74)	1,2,4-Trimethylbenzene	11.529	105	562868	11.668	ppbv		99
75)	1,3-Dichlorobenzene	11.600	146	322979	11.778	ppbv		99
76)	1,4-Dichlorobenzene	11.665	146	320689	11.563	ppbv		99
77)	1,2-Dichlorobenzene	11.940	146	309433	11.524	ppbv		100
78)	Hexachloro-1,3-Butadiene	13.876	225	187990	8.542	ppbv		97
79)	Naphthalene	13.507	128	477313	10.914	ppbv		99
80)	Naphthalene,2-methyl-	14.449	142	142381	8.713	ppbv		97
81)	1,2,4-Trichlorobenzene	13.432	180	228630	10.401	ppbv		99

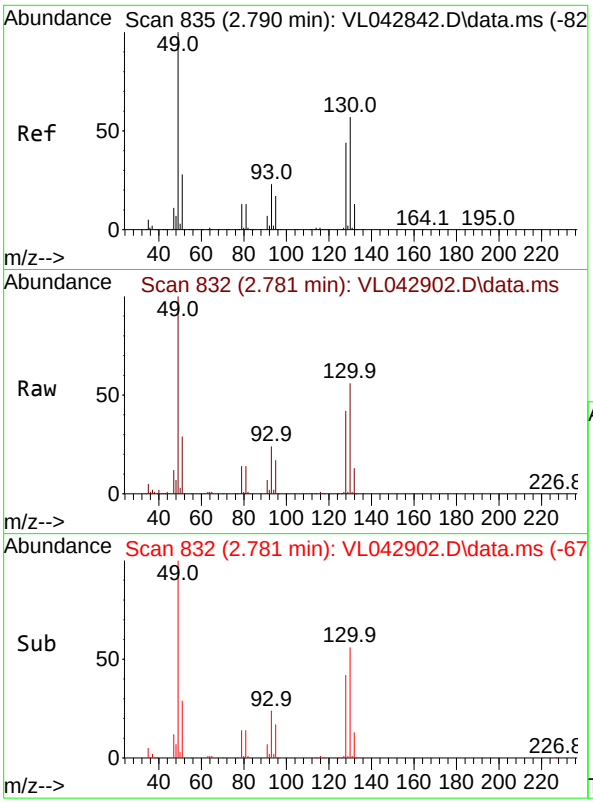
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
Data File : VL042902.D
Acq On : 08 Sep 2025 13:35
Operator : SY/MD
Sample : VL0908ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Quant Time: Sep 09 00:55:51 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 : Tue Sep 09 00:52:26 2025
Response via : Initial Calibration



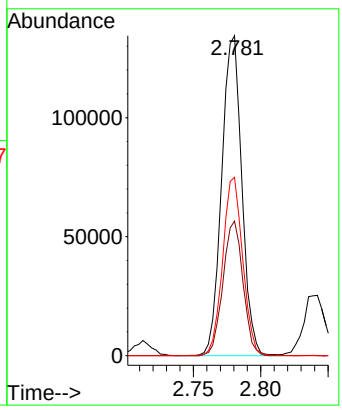


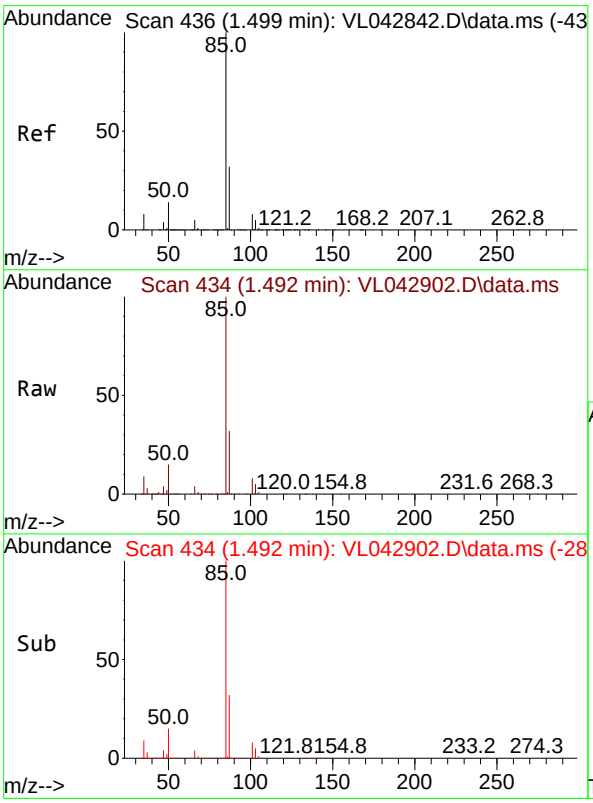
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 8
Delta R.T. 0.004 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Tgt Ion: 49 Resp: 139945

Ion	Ratio	Lower	Upper
49	100		
128	41.6	23.7	71.1
130	55.2	30.6	91.6

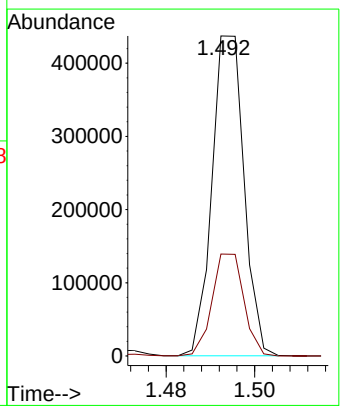


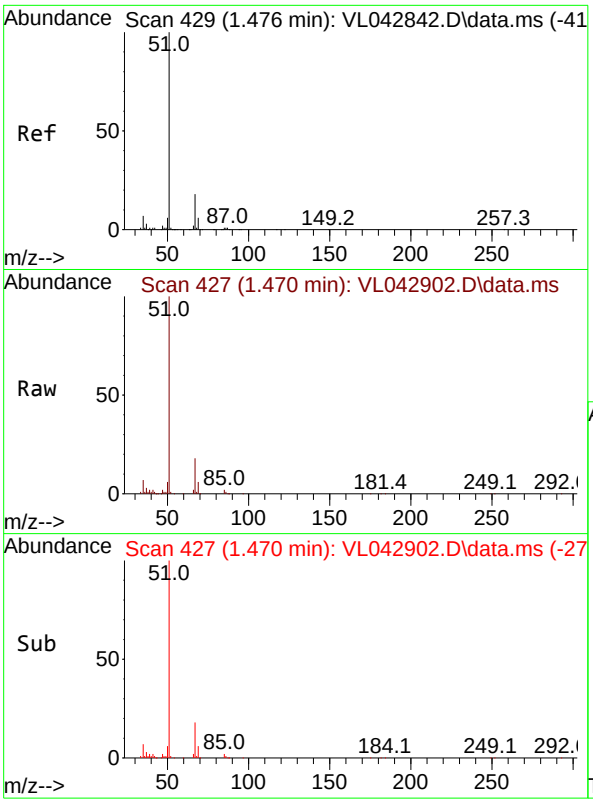


#2
Dichlorodifluoromethane
Concen: 10.731 ppbv
RT: 1.492 min Scan# 434
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 85 Resp: 220085

Ion	Ratio	Lower	Upper
85	100		
87	31.9	25.3	37.9



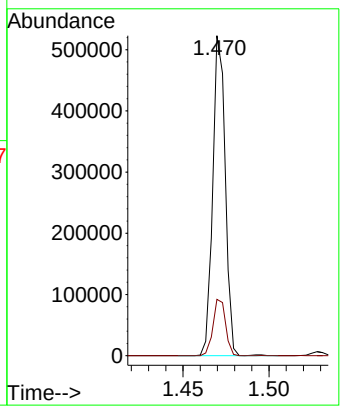


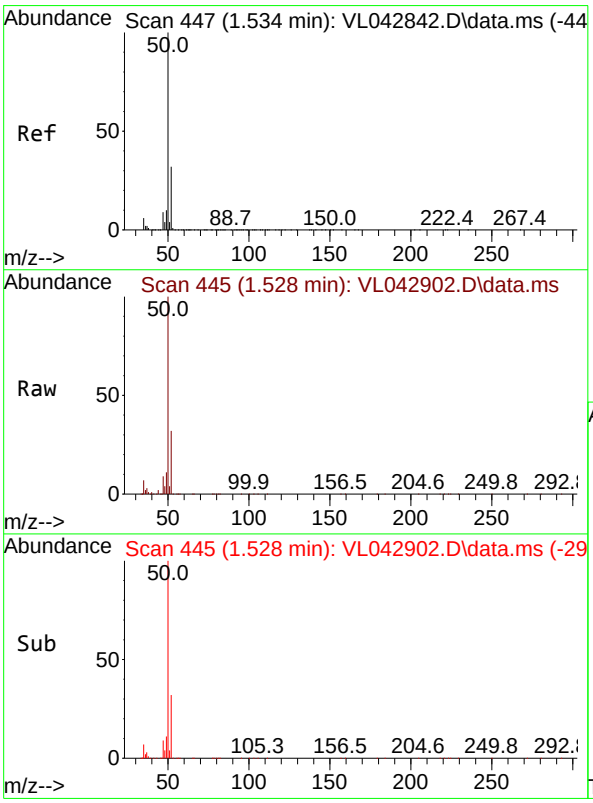
#3
Chlorodifluoromethane
Concen: 11.627 ppbv
RT: 1.470 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Tgt Ion: 51 Resp: 263595

Ion	Ratio	Lower	Upper
51	100		
67	17.8	14.9	22.3

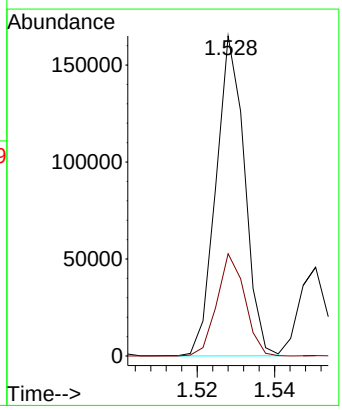


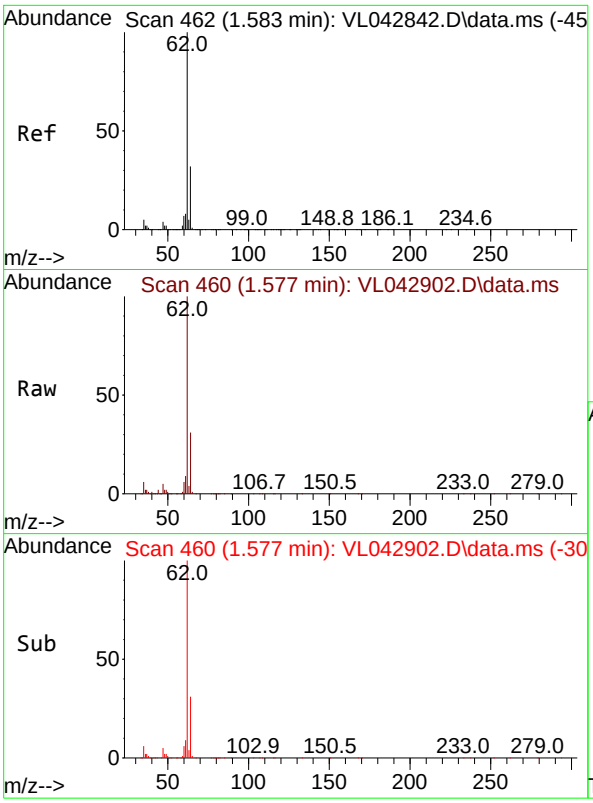


#4
Chloromethane
Concen: 10.244 ppbv
RT: 1.528 min Scan# 445
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 50 Resp: 84783

Ion	Ratio	Lower	Upper
50	100		
52	32.0	25.9	38.9



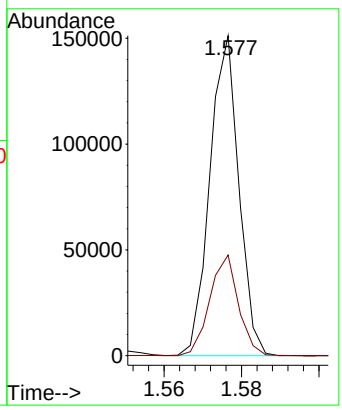


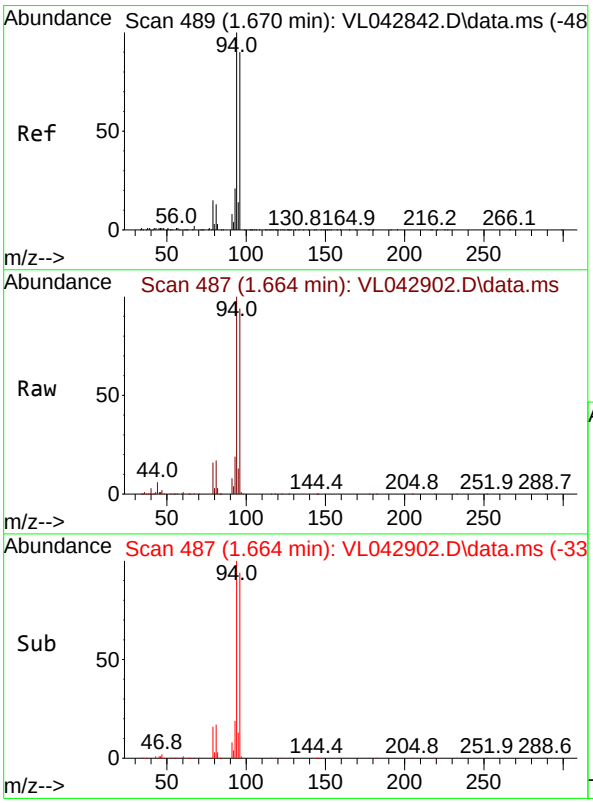
#5
Vinyl Chloride
Concen: 9.636 ppbv
RT: 1.577 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Tgt Ion: 62 Resp: 78545

Ion	Ratio	Lower	Upper
62	100		
64	31.5	25.4	38.2

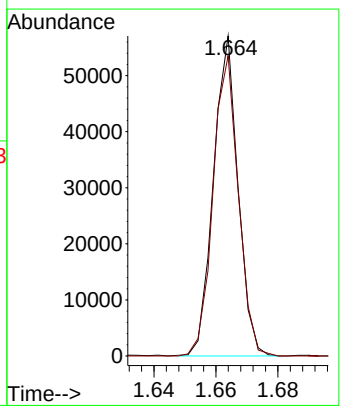


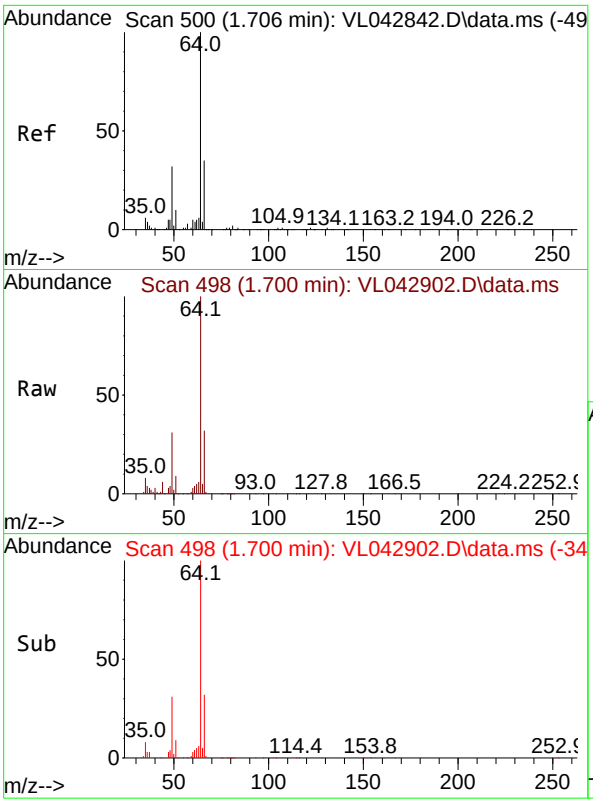


#6
Bromomethane
Concen: 9.636 ppbv
RT: 1.664 min Scan# 487
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 94 Resp: 31405

Ion	Ratio	Lower	Upper
94	100		
96	93.8	72.1	108.1



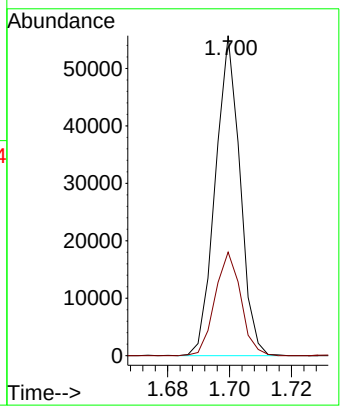


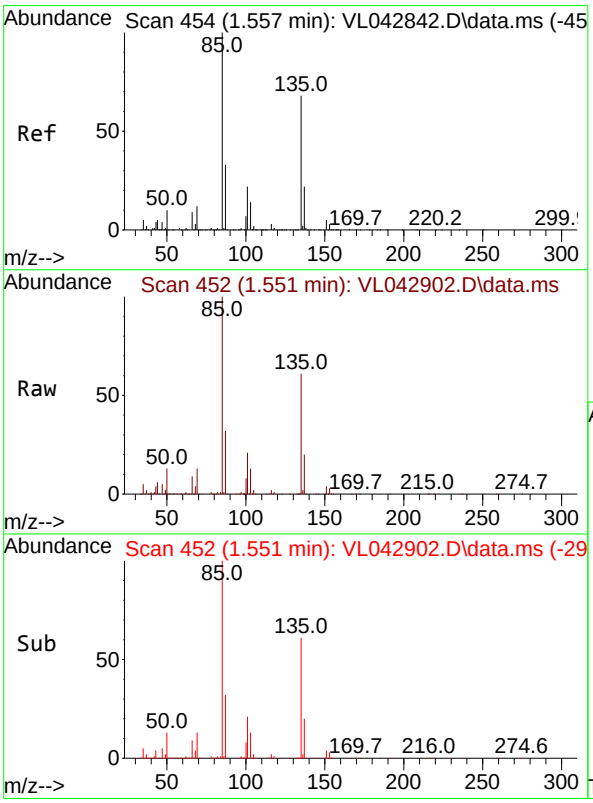
#7
Chloroethane
Concen: 9.679 ppbv
RT: 1.700 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Tgt Ion: 64 Resp: 30810

Ion	Ratio	Lower	Upper
64	100		
66	32.3	28.6	42.8

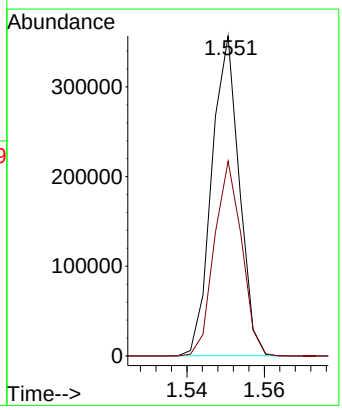


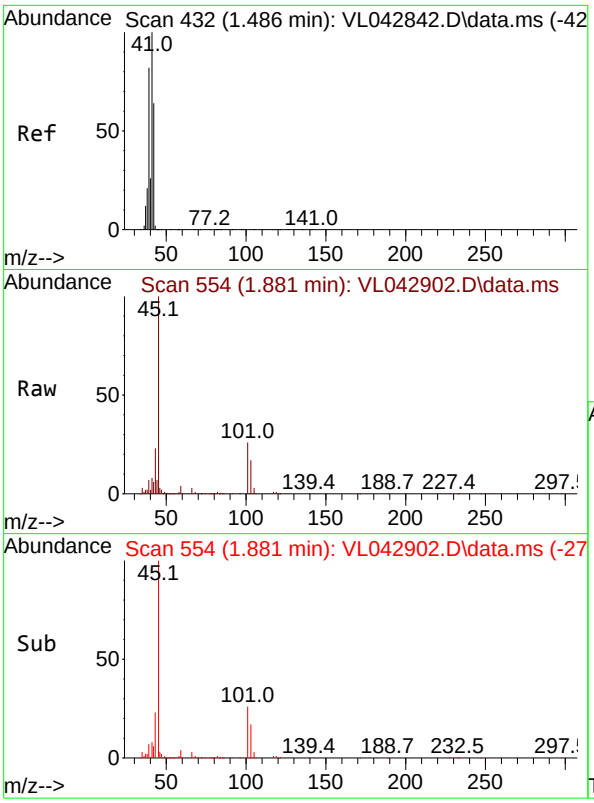


#8
Dichlorotetrafluoroethane
Concen: 10.464 ppbv
RT: 1.551 min Scan# 452
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 85 Resp: 175617

Ion	Ratio	Lower	Upper
85	100		
135	60.9	51.2	76.8



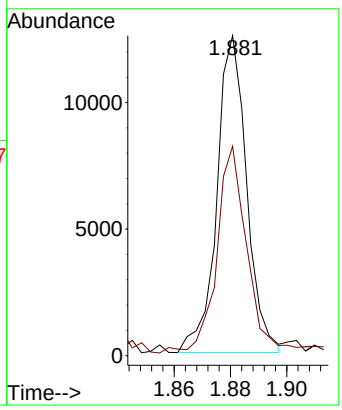


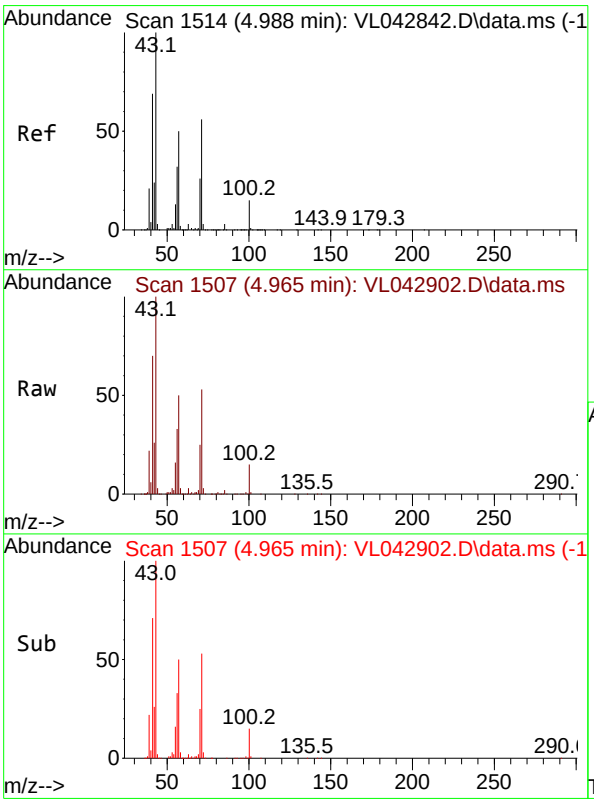
#9
Propene
Concen: 0.940 ppbv
RT: 1.881 min Scan# 5
Delta R.T. 0.405 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Tgt Ion: 41 Resp: 9206

Ion	Ratio	Lower	Upper
41	100		
42	65.5	53.0	79.4

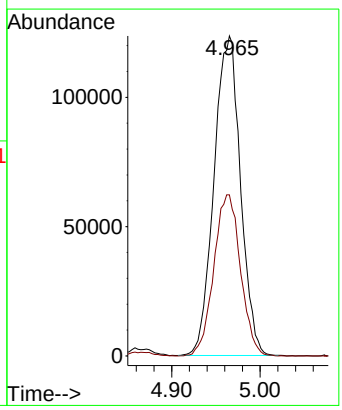


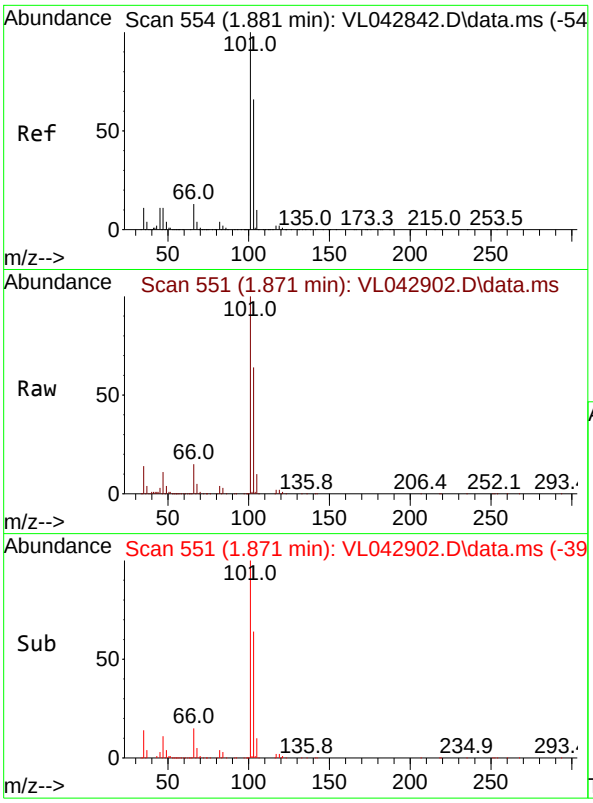


#10
Heptane
Concen: 9.785 ppbv
RT: 4.965 min Scan# 1507
Delta R.T. 0.006 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 43 Resp: 256593

Ion	Ratio	Lower	Upper
43	100		
57	50.9	41.4	62.0



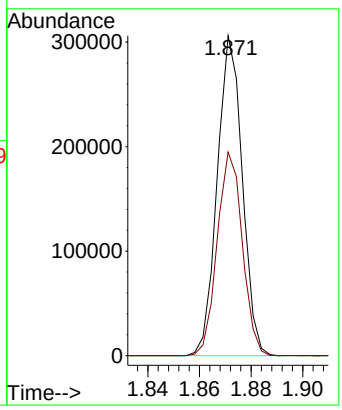


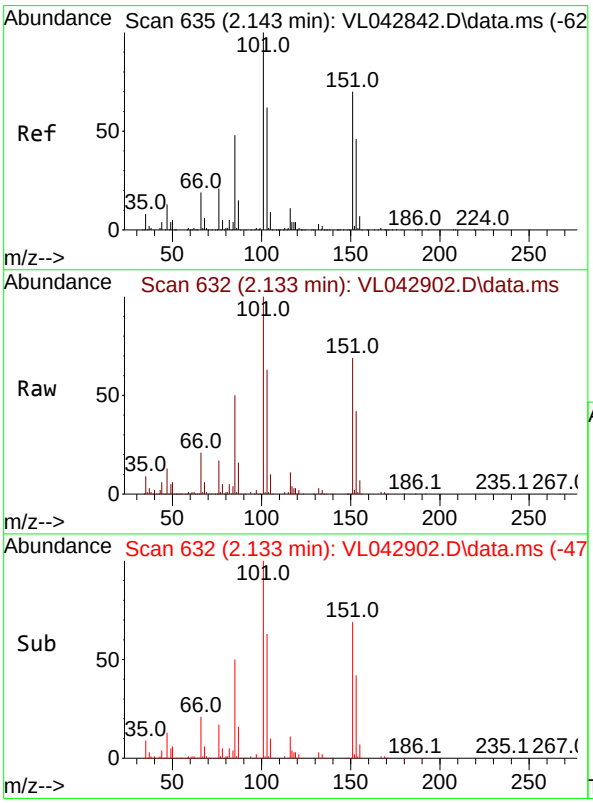
#11
Trichlorofluoromethane
Concen: 10.185 ppbv
RT: 1.871 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Tgt Ion:101 Resp: 206104

Ion	Ratio	Lower	Upper
101	100		
103	63.6	52.5	78.7

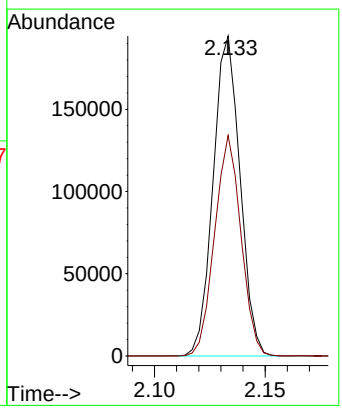


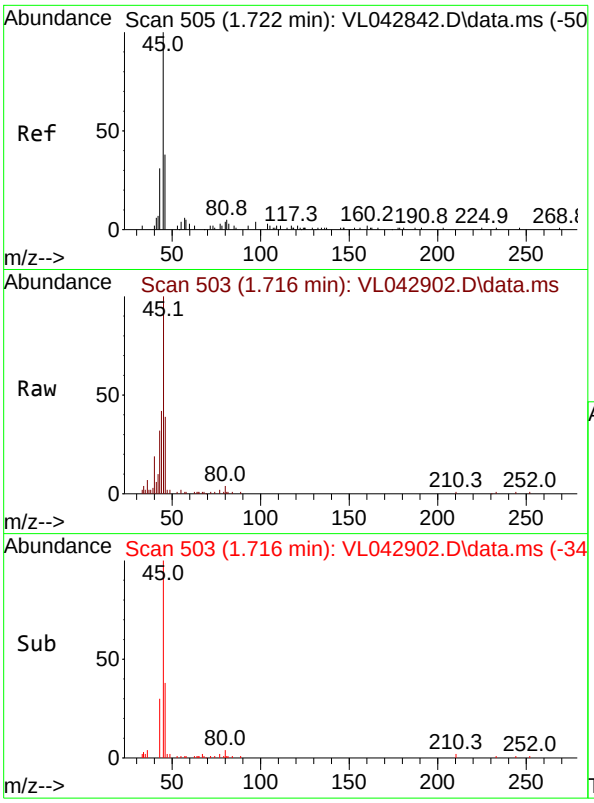


#12
1,1,2-Trichlorotrifluoroethane
Concen: 10.197 ppbv
RT: 2.133 min Scan# 632
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion:101 Resp: 164464

Ion	Ratio	Lower	Upper
101	100		
151	67.4	56.4	84.6



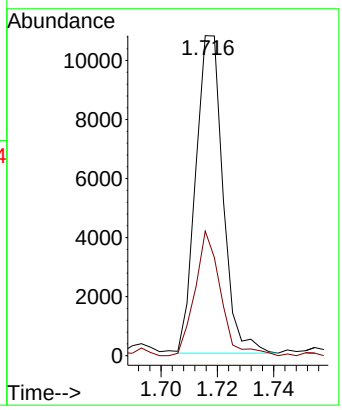


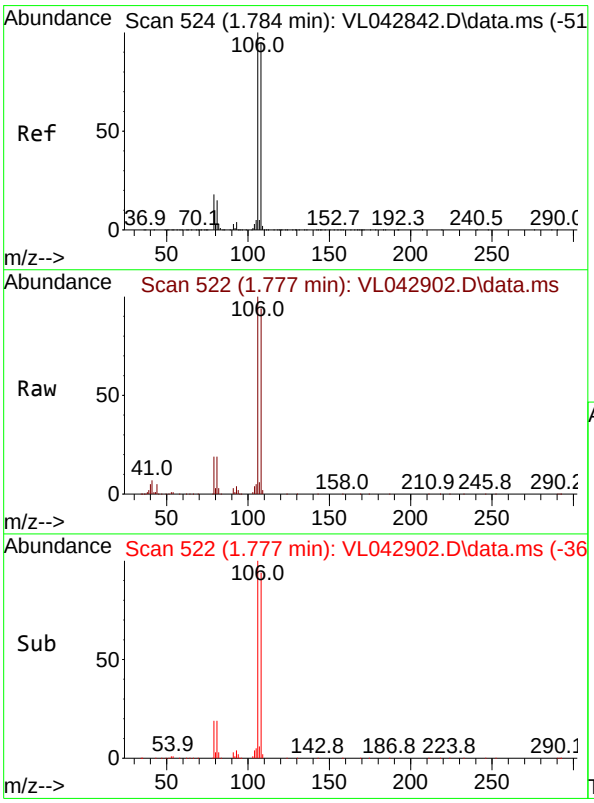
#13
Ethanol
Concen: 8.071 ppbv
RT: 1.716 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Tgt Ion: 45 Resp: 7225

Ion	Ratio	Lower	Upper
45	100		
46	38.4	17.5	69.9

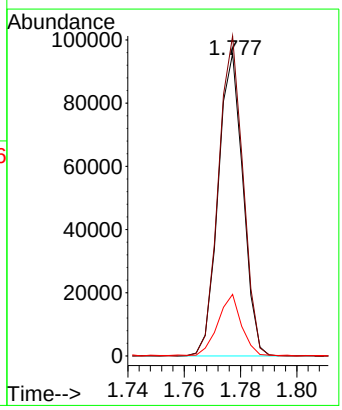


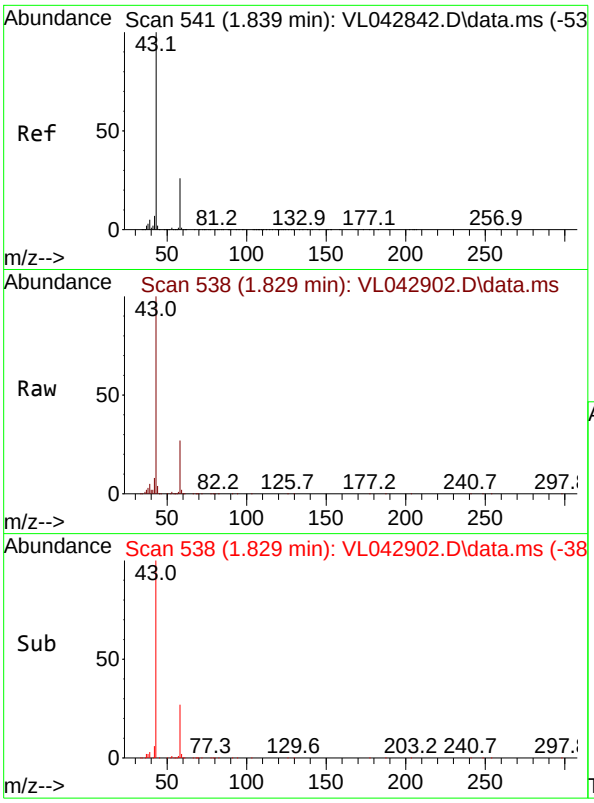


#14
Bromoethene
Concen: 10.009 ppbv
RT: 1.777 min Scan# 522
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion:108 Resp: 58442

Ion	Ratio	Lower	Upper
108	100		
106	104.8	85.1	127.7
79	20.1	16.3	24.5



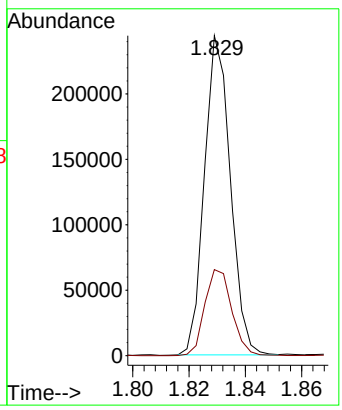


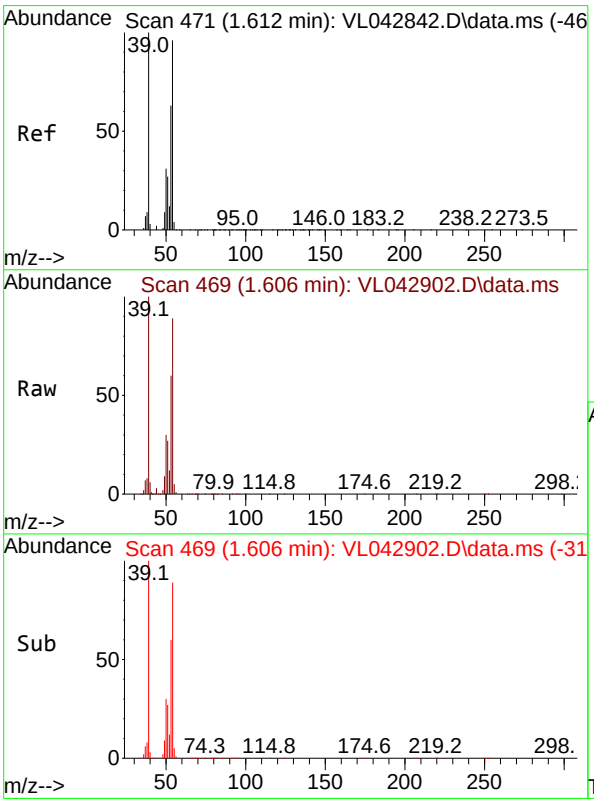
#15
Acetone
Concen: 8.435 ppbv
RT: 1.829 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Tgt Ion: 43 Resp: 156147

Ion	Ratio	Lower	Upper
43	100		
58	28.3	22.4	33.6

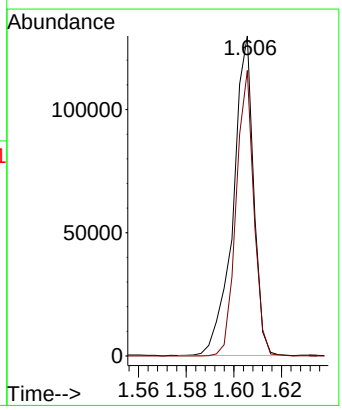


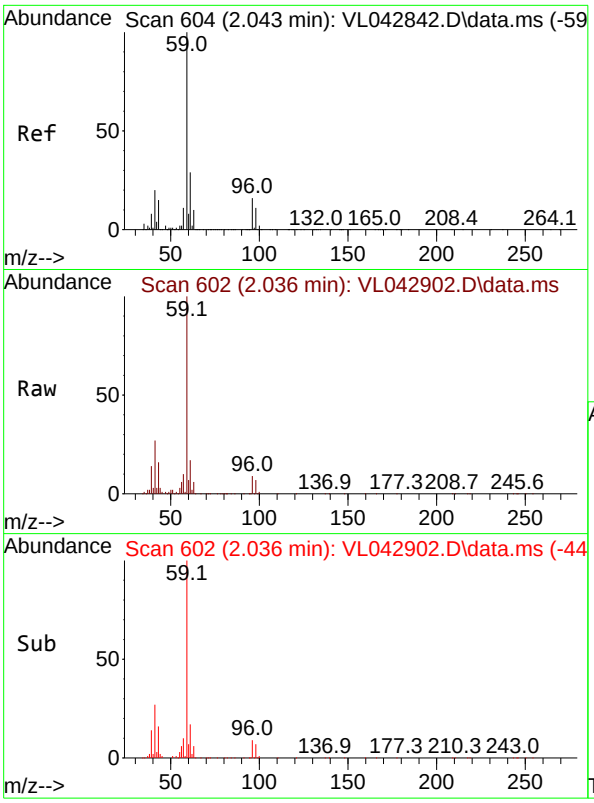


#16
1,3-Butadiene
Concen: 9.250 ppbv
RT: 1.606 min Scan# 469
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 39 Resp: 77632

Ion	Ratio	Lower	Upper
39	100		
54	76.8	63.6	95.4



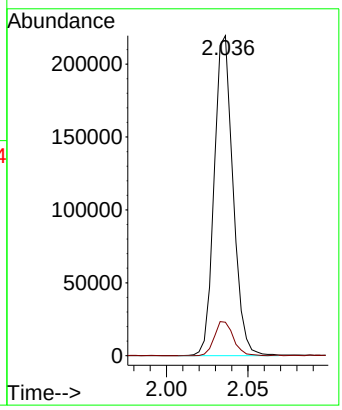


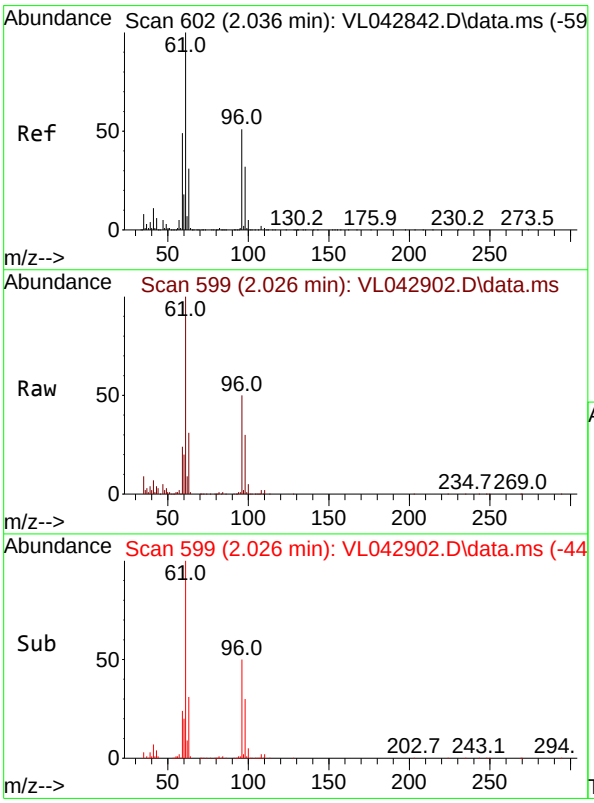
#17
tert-Butyl alcohol
Concen: 8.020 ppbv
RT: 2.036 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Tgt Ion: 59 Resp: 176056

Ion	Ratio	Lower	Upper
59	100		
57	10.9	9.0	13.4

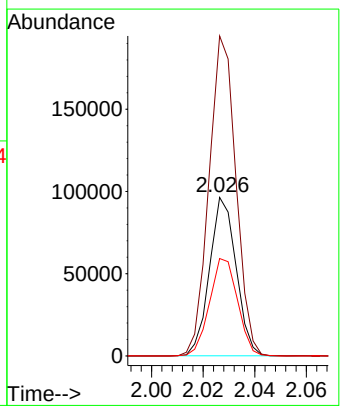


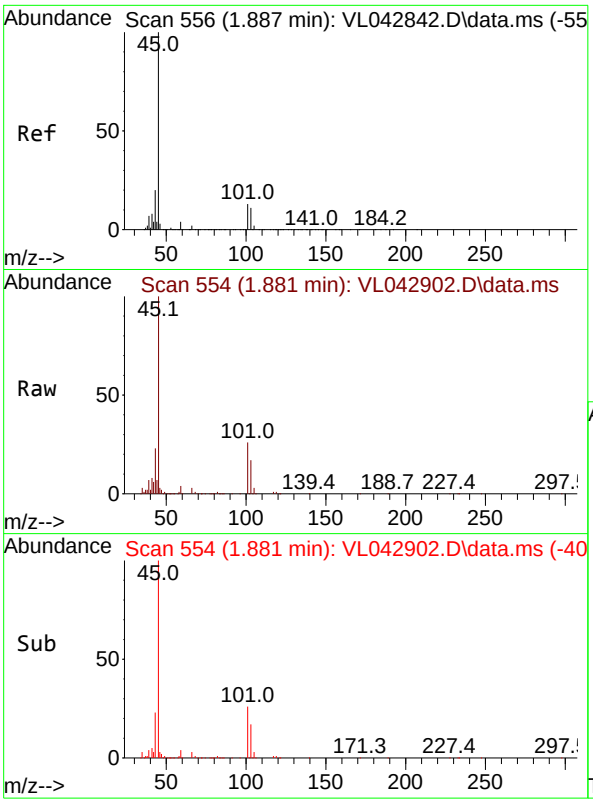


#18
1,1-Dichloroethene
Concen: 9.707 ppbv
RT: 2.026 min Scan# 599
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 96 Resp: 68830

Ion	Ratio	Lower	Upper
96	100		
61	201.9	158.2	237.4
98	61.5	50.6	76.0



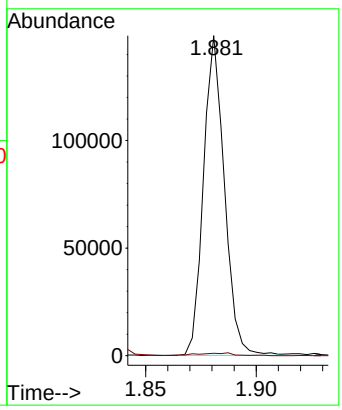


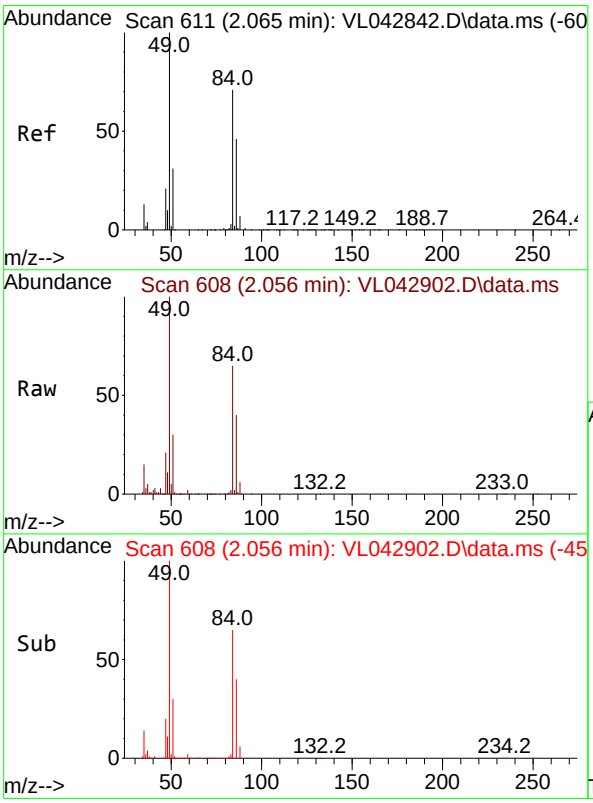
#19
Isopropyl Alcohol
Concen: 8.791 ppbv
RT: 1.881 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Tgt Ion: 45 Resp: 97198

Ion	Ratio	Lower	Upper
45	100		
58	45.5	32.7	49.1

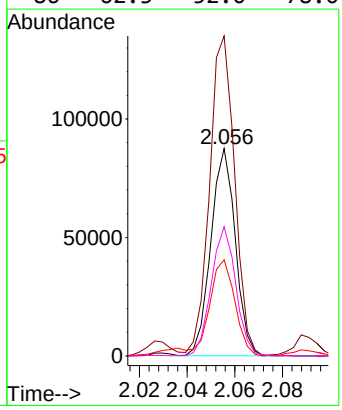


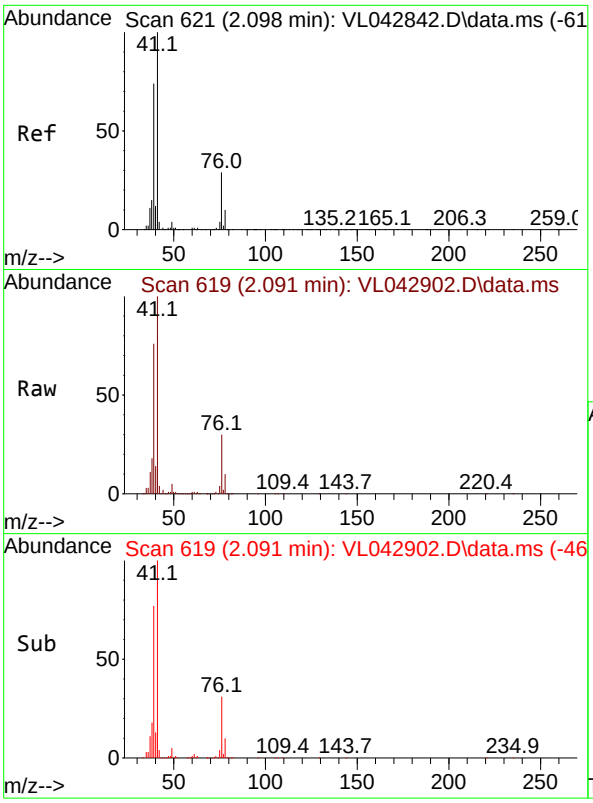


#20
Methylene Chloride
Concen: 8.038 ppbv
RT: 2.056 min Scan# 608
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 84 Resp: 62334

Ion	Ratio	Lower	Upper
84	100		
49	153.6	112.3	168.5
51	46.1	36.0	54.0
86	62.3	52.0	78.0



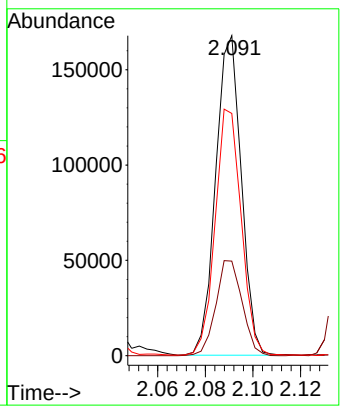


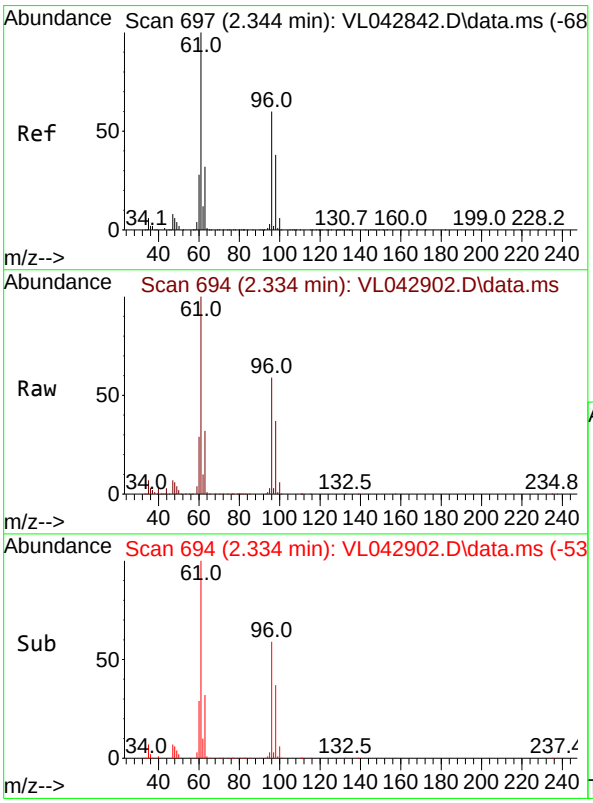
#21
Allyl Chloride
Concen: 9.573 ppbv
RT: 2.091 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Tgt Ion: 41 Resp: 125191

Ion	Ratio	Lower	Upper
41	100		
76	30.6	23.9	35.9
39	78.4	57.8	86.6

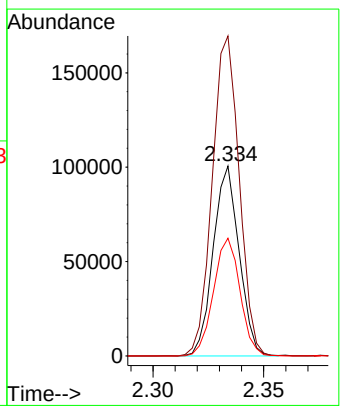


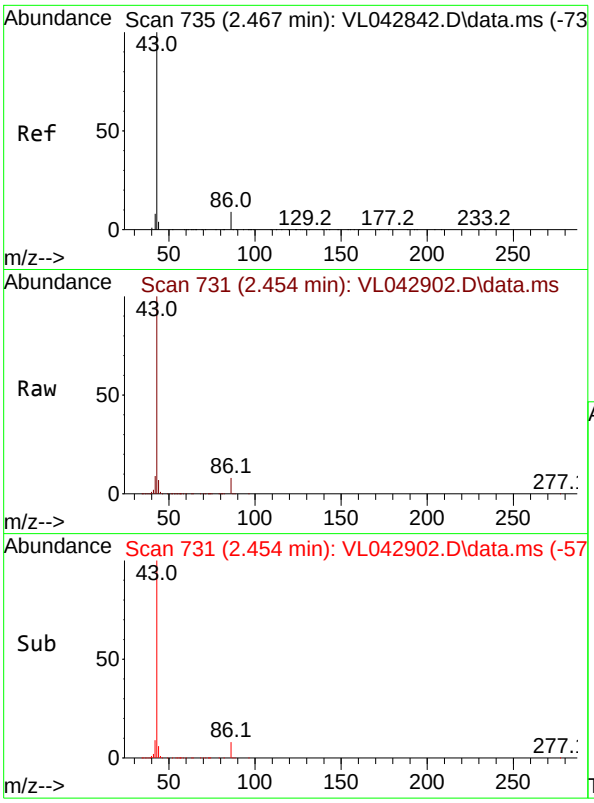


#22
trans-1,2-Dichloroethene
Concen: 10.005 ppbv
RT: 2.334 min Scan# 694
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 96 Resp: 82077

Ion	Ratio	Lower	Upper
96	100		
61	168.5	132.6	199.0
98	62.0	50.0	75.0



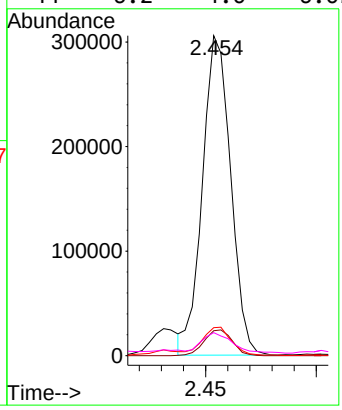


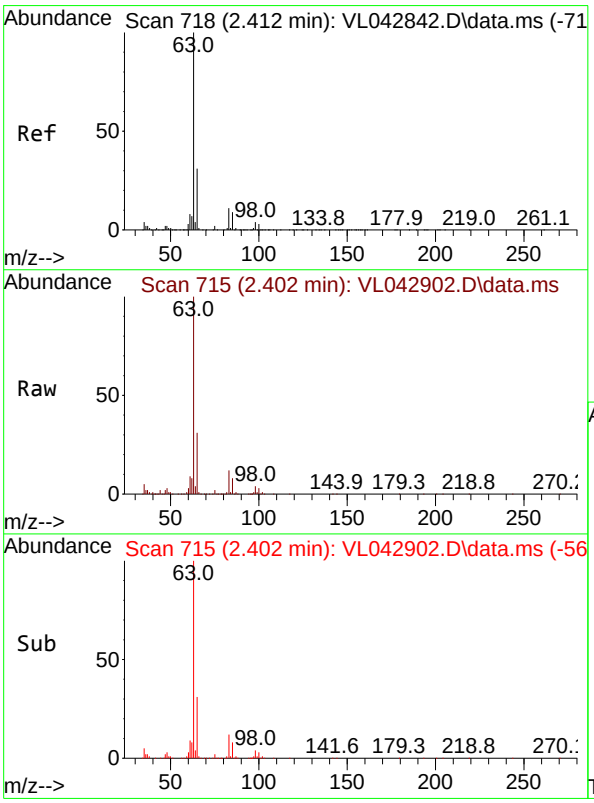
#23
Vinyl Acetate
Concen: 10.634 ppbv
RT: 2.454 min Scan# 7
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Tgt Ion: 43 Resp: 270676

Ion	Ratio	Lower	Upper
43	100		
86	7.8	6.6	9.8
42	8.6	7.0	10.6
44	6.2	4.0	6.0#

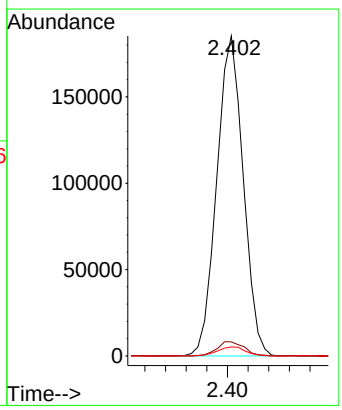


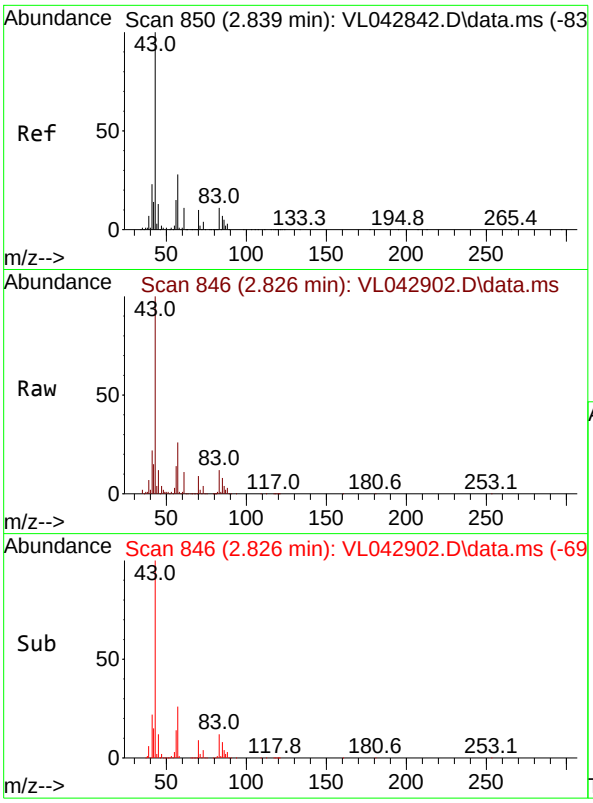


#24
1,1-Dichloroethane
Concen: 10.066 ppbv
RT: 2.402 min Scan# 715
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 63 Resp: 164910

Ion	Ratio	Lower	Upper
63	100		
98	4.4	2.1	6.5
100	2.8	1.7	5.1



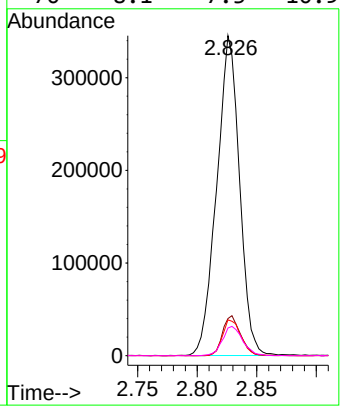


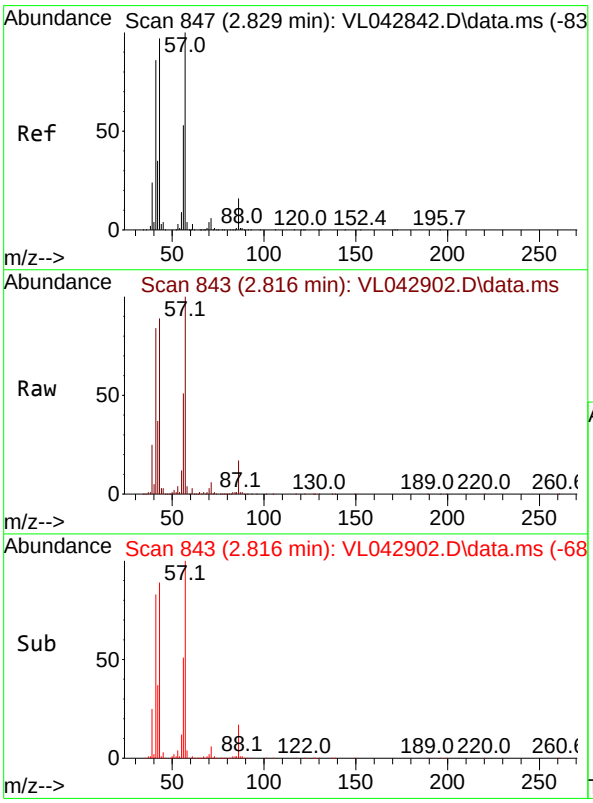
#25
Ethyl Acetate
Concen: 10.237 ppbv
RT: 2.826 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Tgt Ion: 43 Resp: 458640

Ion	Ratio	Lower	Upper
43	100		
45	10.0	8.1	12.1
61	9.2	7.4	11.2
70	8.1	7.3	10.9

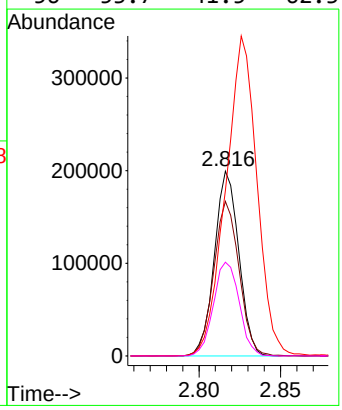


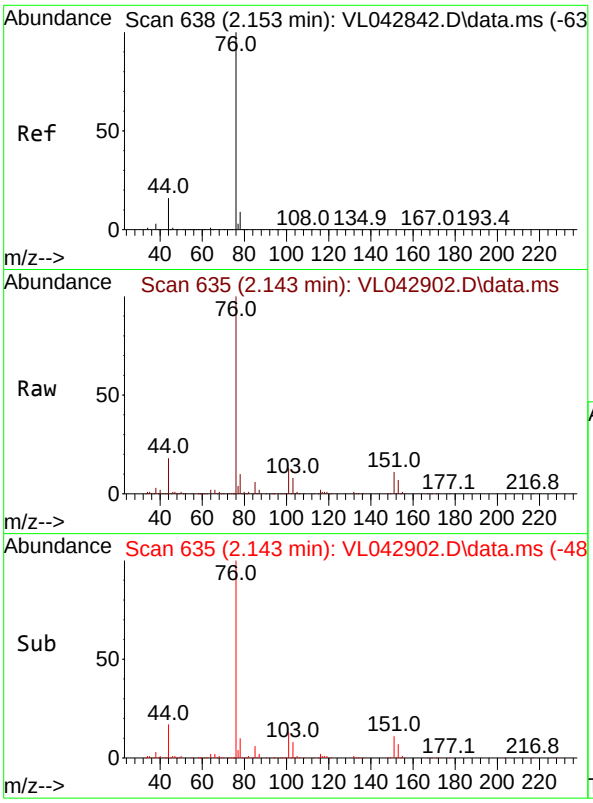


#26
Hexane
Concen: 10.043 ppbv
RT: 2.816 min Scan# 843
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 57 Resp: 207705

Ion	Ratio	Lower	Upper
57	100		
41	87.5	68.6	103.0
43	221.9	168.5	252.7
56	53.7	41.5	62.3



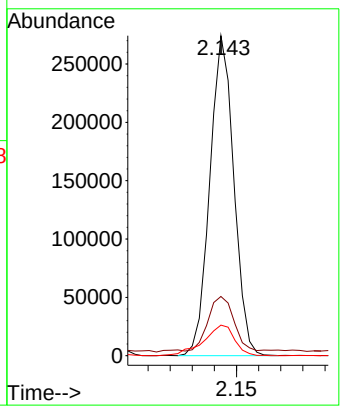


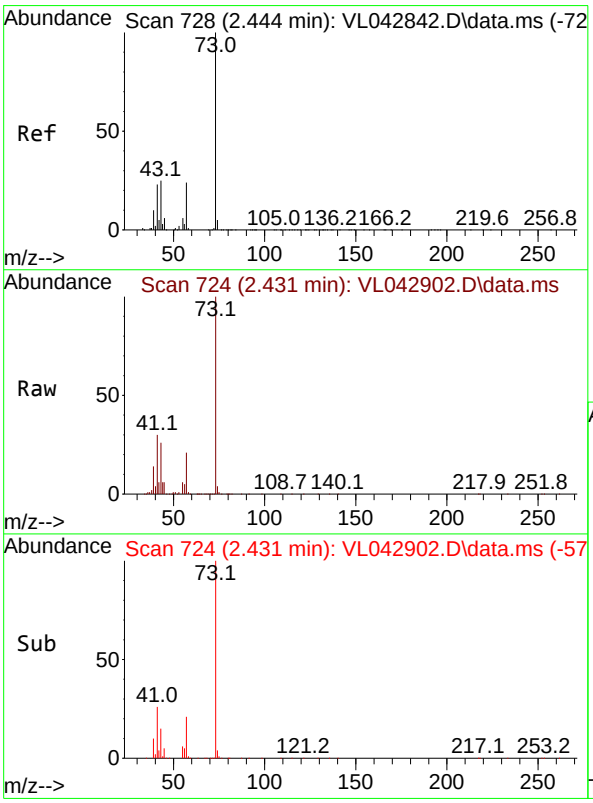
#27
Carbon Disulfide
Concen: 10.273 ppbv
RT: 2.143 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Tgt Ion: 76 Resp: 206751

Ion	Ratio	Lower	Upper
76	100		
44	20.9	15.9	23.9
78	12.3	9.5	14.3

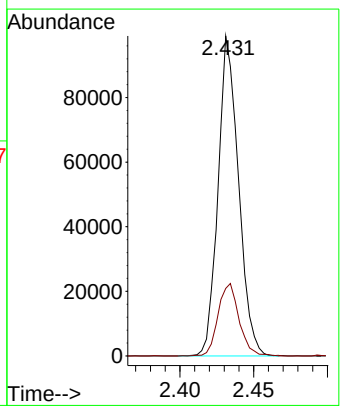


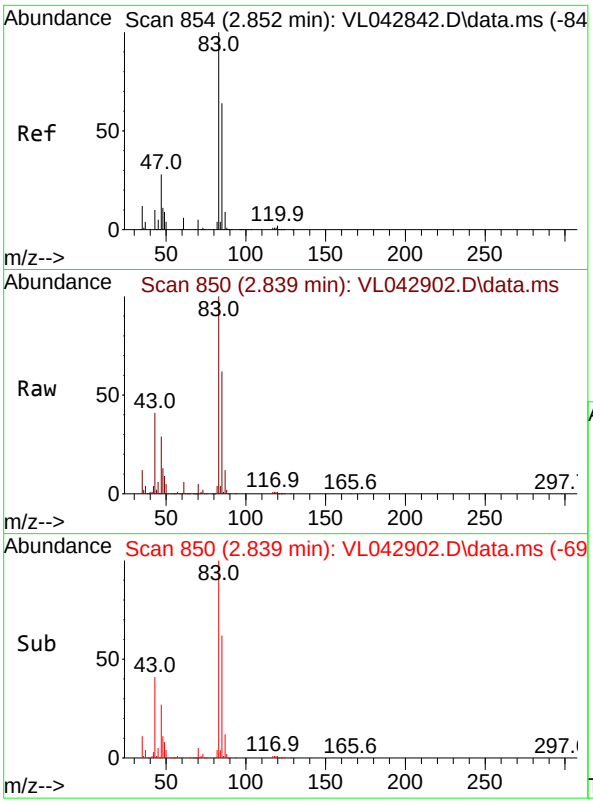


#28
Methyl tert-Butyl Ether
Concen: 9.082 ppbv
RT: 2.431 min Scan# 724
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 73 Resp: 95768

Ion	Ratio	Lower	Upper
73	100		
57	23.2	21.6	32.4



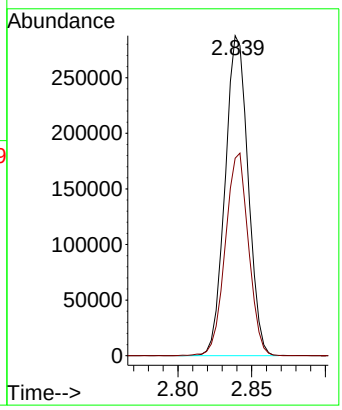


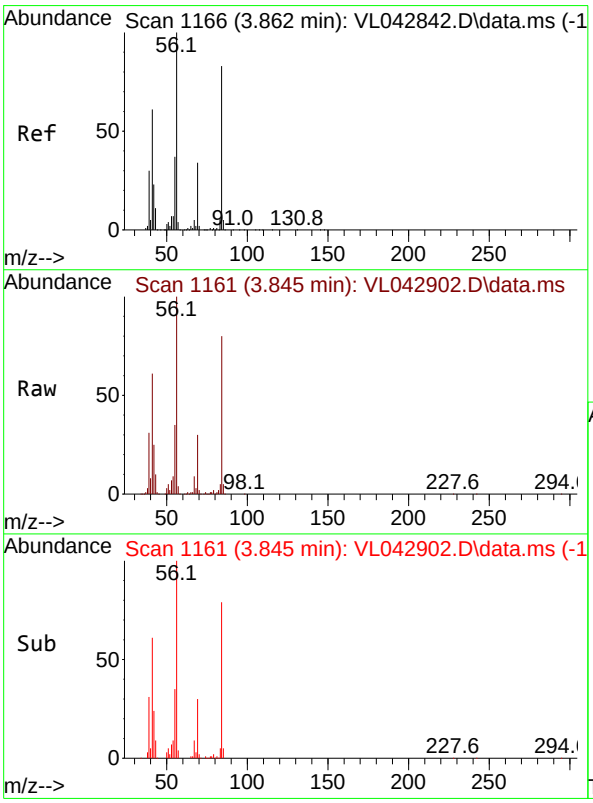
#29
Chloroform
Concen: 10.562 ppbv
RT: 2.839 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Tgt Ion: 83 Resp: 311859

Ion	Ratio	Lower	Upper
83	100		
85	61.7	51.1	76.7

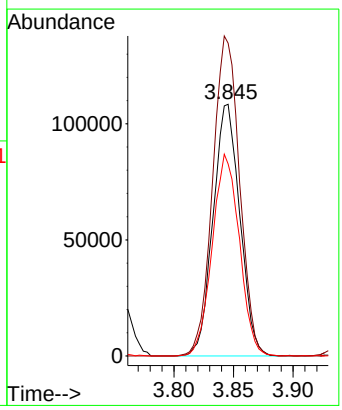


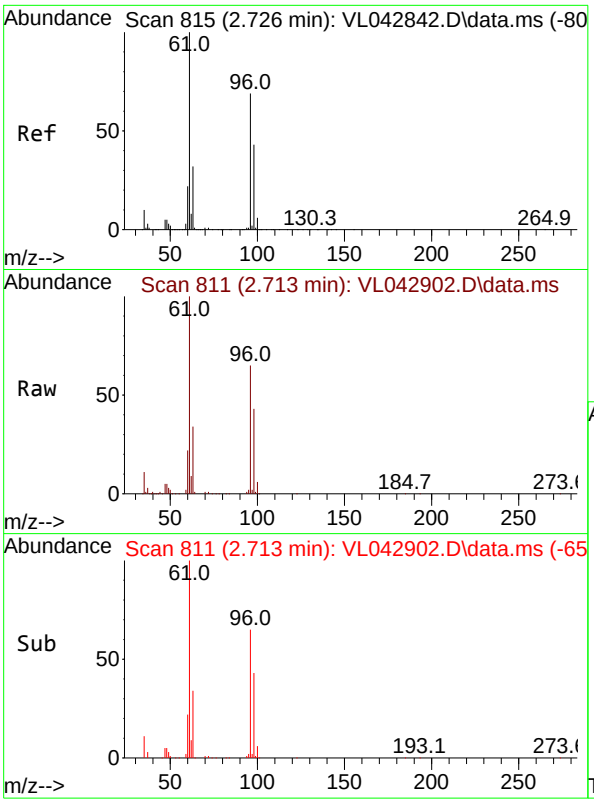


#30
Cyclohexane
Concen: 9.340 ppbv
RT: 3.845 min Scan# 1161
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 84 Resp: 169353

Ion	Ratio	Lower	Upper
84	100		
56	127.6	98.8	148.2
41	81.1	61.3	91.9



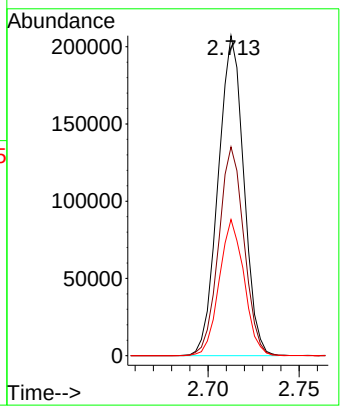


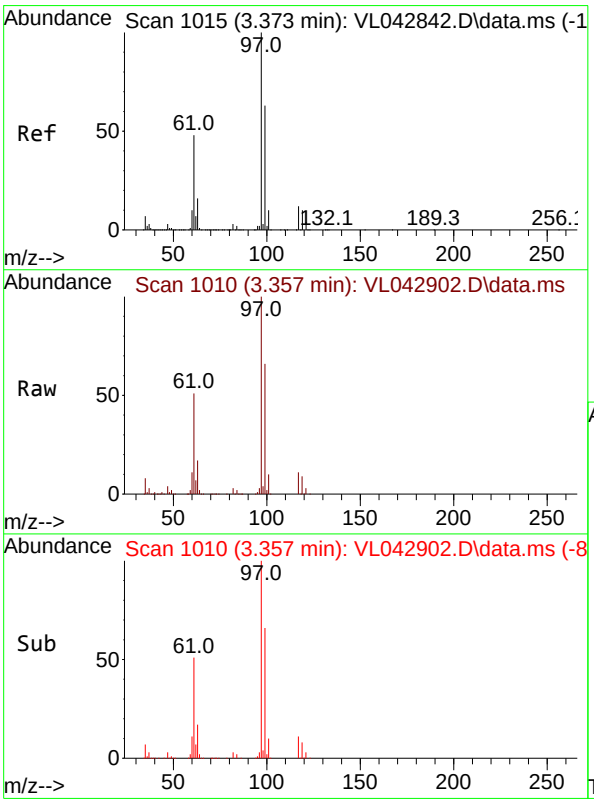
#31
cis-1,2-Dichloroethene
Concen: 9.796 ppbv
RT: 2.713 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Tgt Ion: 61 Resp: 202349

Ion	Ratio	Lower	Upper
61	100		
96	65.2	55.0	82.6
98	42.5	34.3	51.5

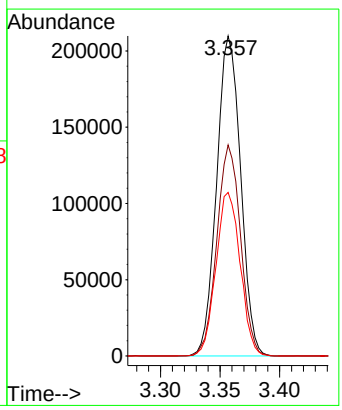


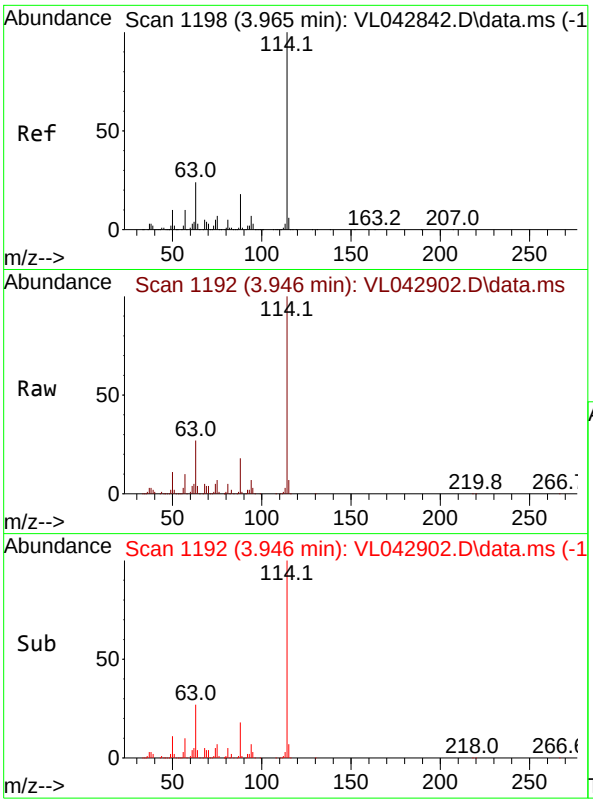


#32
1,1,1-Trichloroethane
Concen: 9.409 ppbv
RT: 3.357 min Scan# 1010
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 97 Resp: 293618

Ion	Ratio	Lower	Upper
97	100		
99	65.0	51.0	76.6
61	51.7	38.0	57.0



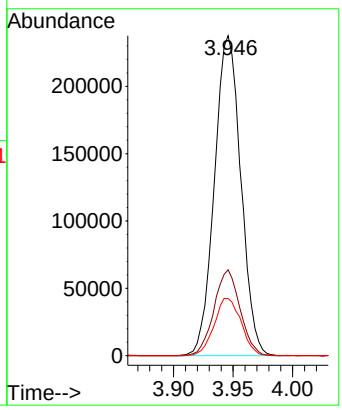


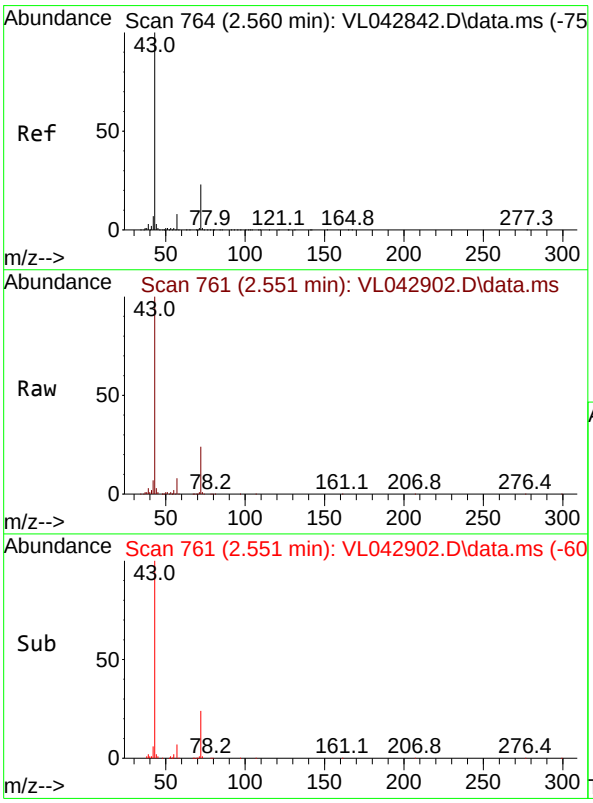
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.946 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Tgt Ion:114 Resp: 365857

Ion	Ratio	Lower	Upper
114	100		
63	26.5	19.7	29.5
88	18.3	14.4	21.6

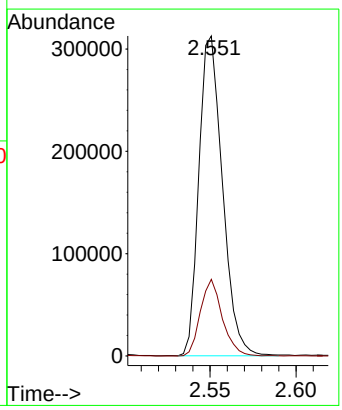


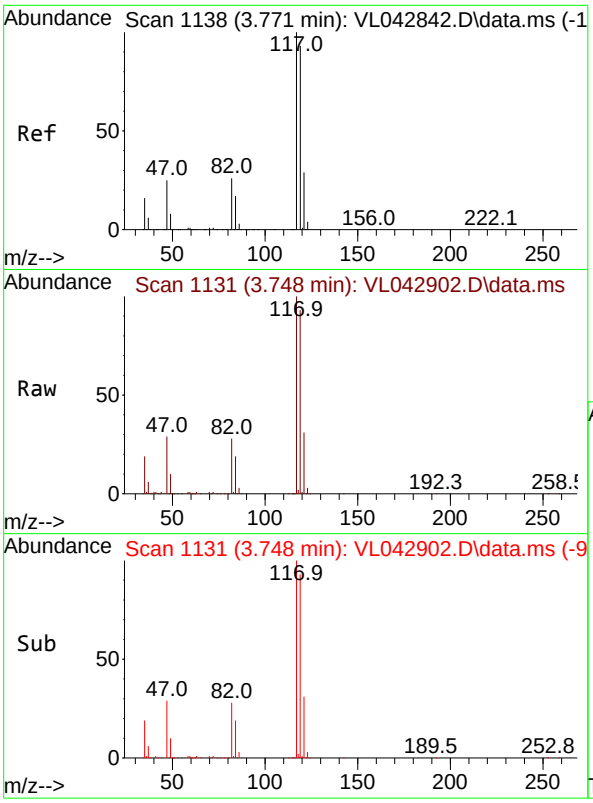


#34
2-Butanone
Concen: 12.066 ppbv
RT: 2.551 min Scan# 761
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 43 Resp: 298071

Ion	Ratio	Lower	Upper
43	100		
72	22.3	18.6	28.0



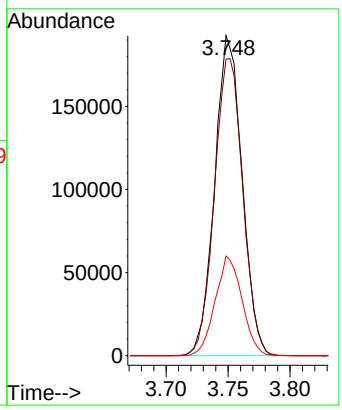


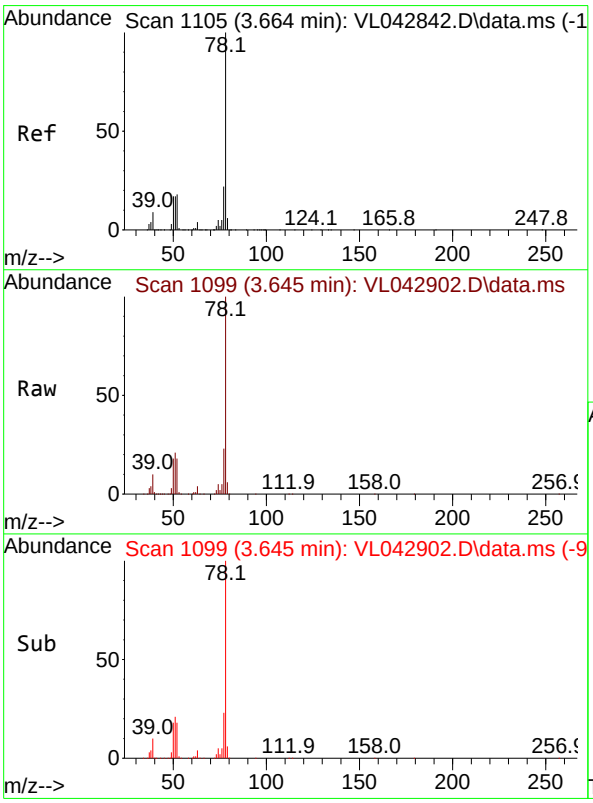
#35
Carbon Tetrachloride
Concen: 11.779 ppbv
RT: 3.748 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Tgt Ion:117 Resp: 297085

Ion	Ratio	Lower	Upper
117	100		
119	92.6	74.7	112.1
121	31.2	23.2	34.8

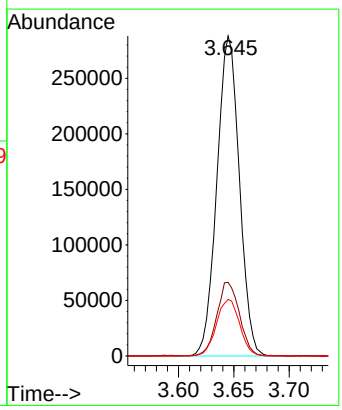


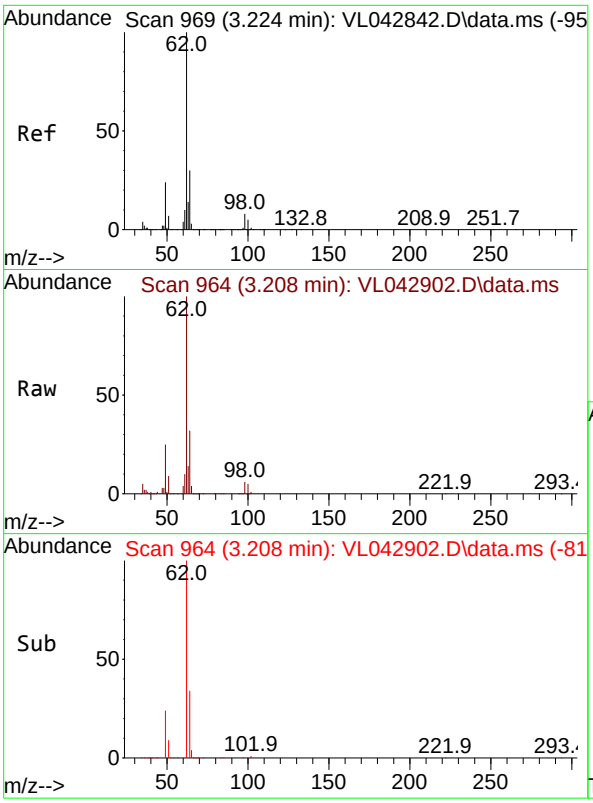


#36
Benzene
Concen: 11.625 ppbv
RT: 3.645 min Scan# 1099
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 78 Resp: 407263

Ion	Ratio	Lower	Upper
78	100		
77	23.0	17.7	26.5
50	17.7	13.9	20.9



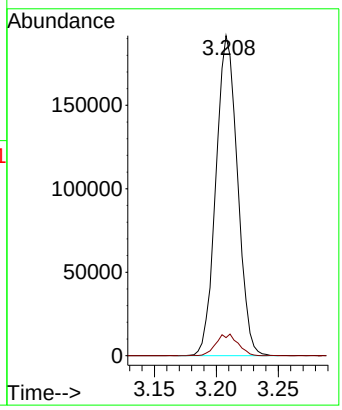


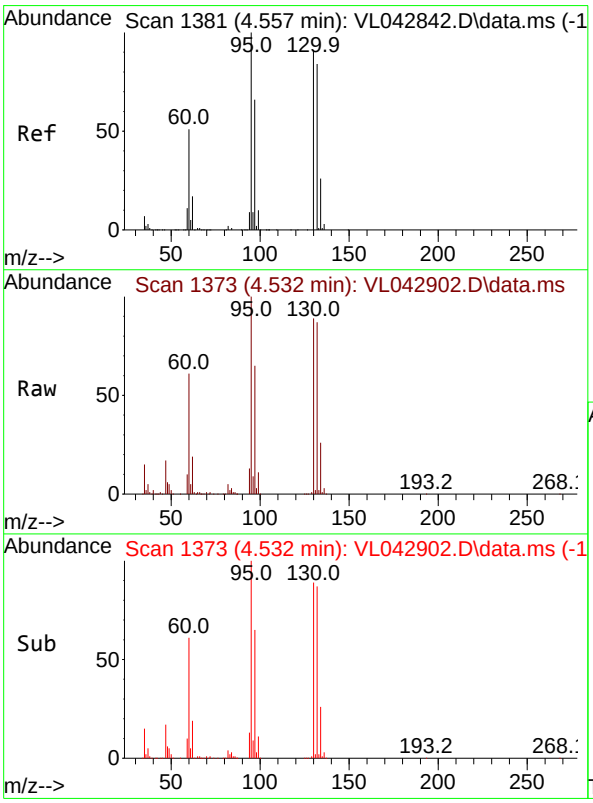
#37
1,2-Dichloroethane
Concen: 12.720 ppbv
RT: 3.208 min Scan# 9
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Tgt Ion: 62 Resp: 232809

Ion	Ratio	Lower	Upper
62	100		
98	6.9	5.9	8.9

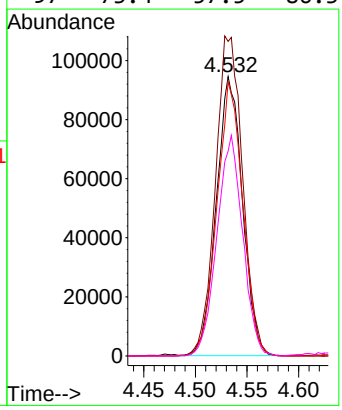


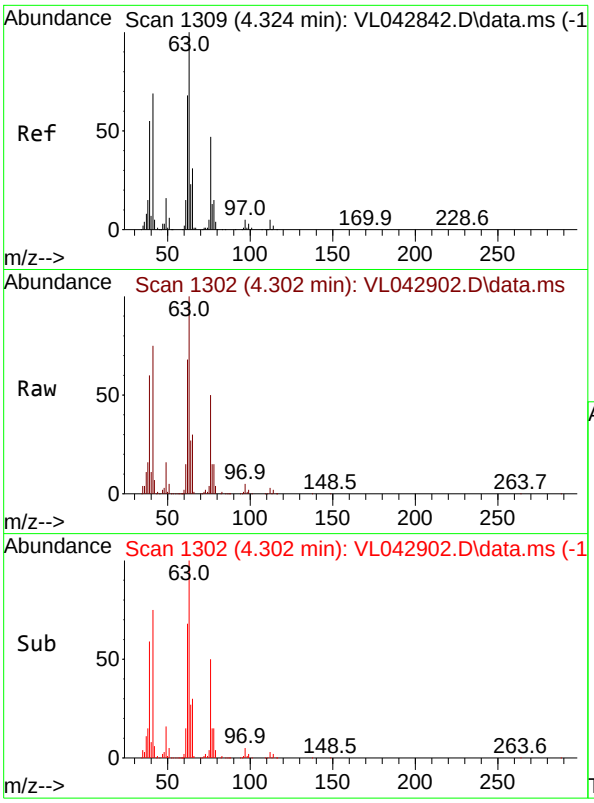


#38
Trichloroethene
Concen: 10.408 ppbv
RT: 4.532 min Scan# 1373
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion:130 Resp: 166529

Ion	Ratio	Lower	Upper
130	100		
95	112.8	87.6	131.4
132	98.3	73.8	110.8
97	73.4	57.5	86.3



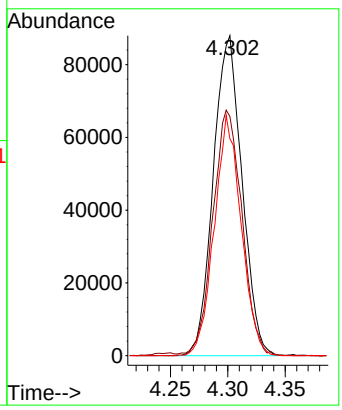


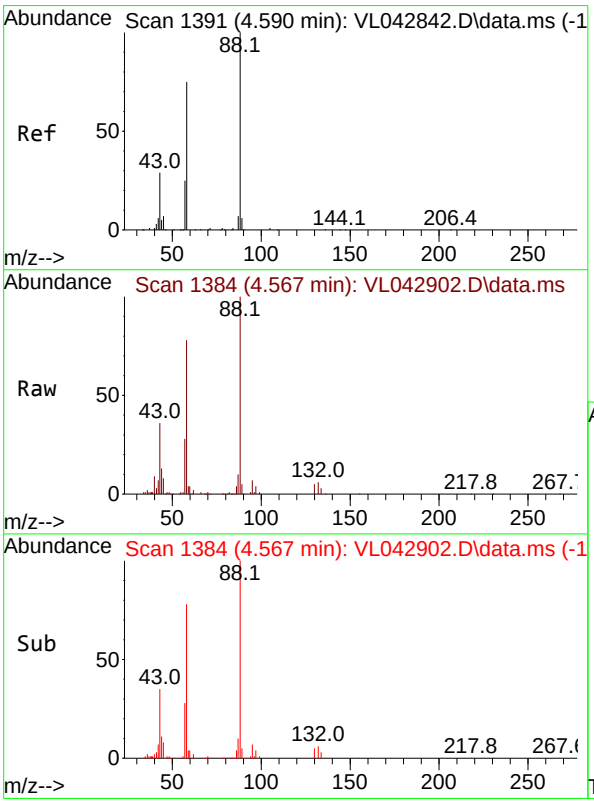
#39
1,2-Dichloropropane
Concen: 11.961 ppbv
RT: 4.302 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Tgt Ion: 63 Resp: 153042

Ion	Ratio	Lower	Upper
63	100		
41	74.6	55.0	82.4
62	67.7	54.4	81.6

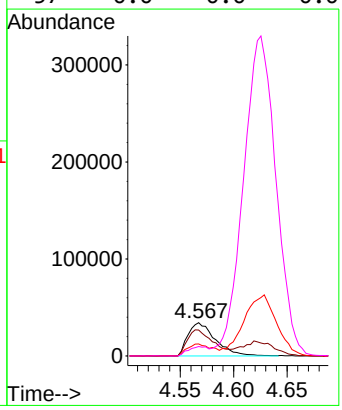


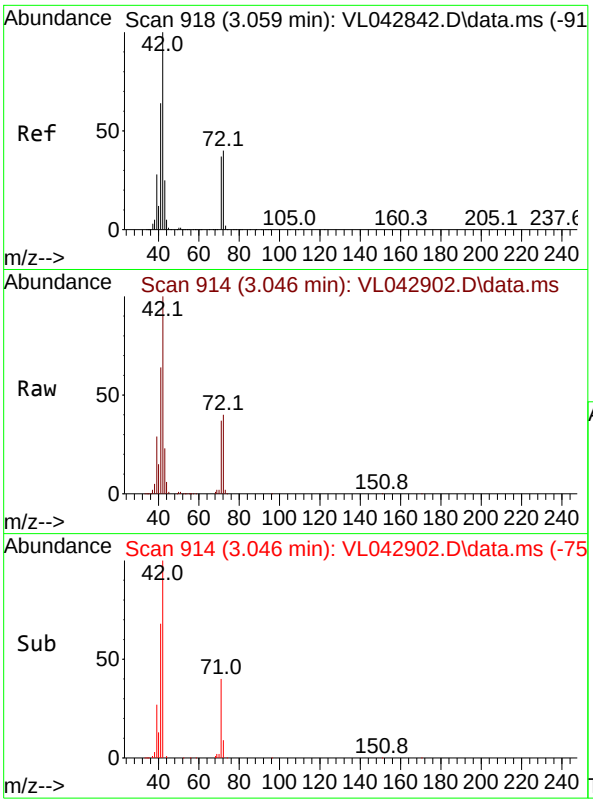


#40
1,4-Dioxane
Concen: 10.138 ppbv
RT: 4.567 min Scan# 1384
Delta R.T. 0.006 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 88 Resp: 61682

Ion	Ratio	Lower	Upper
88	100		
58	75.9	53.8	80.6
43	36.0	22.8	34.2#
57	0.0	0.0	0.0



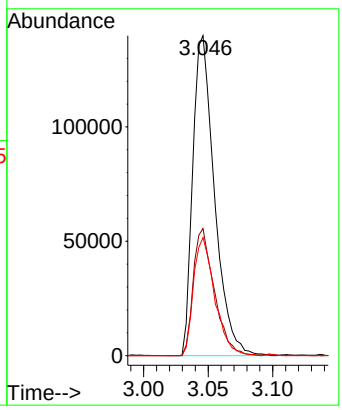


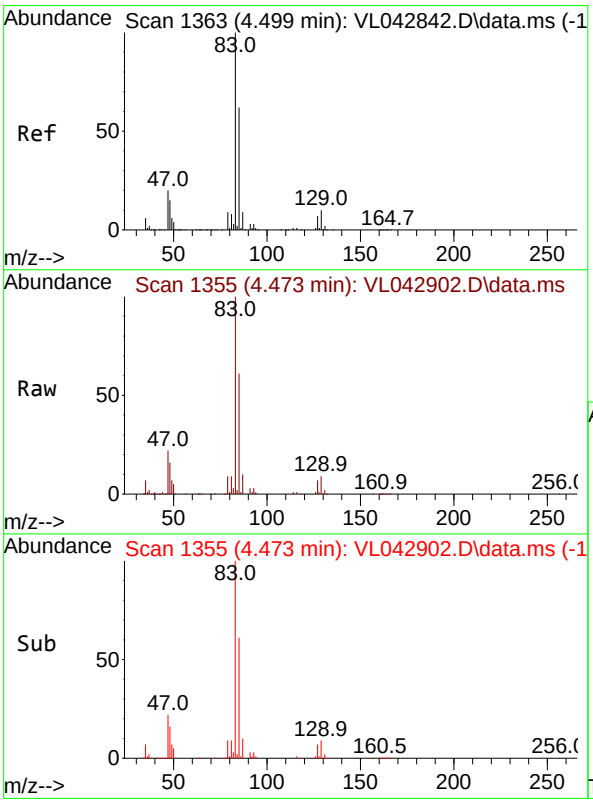
#41
Tetrahydrofuran
Concen: 11.927 ppbv
RT: 3.046 min Scan# 91
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Tgt Ion: 42 Resp: 164268

Ion	Ratio	Lower	Upper
42	100		
72	38.6	32.6	48.8
71	36.0	30.0	45.0

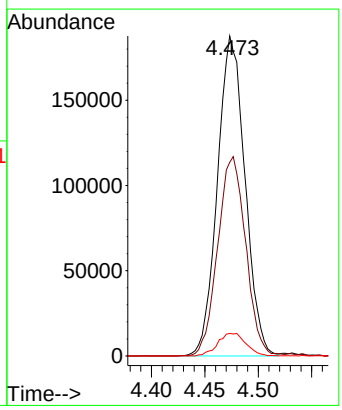


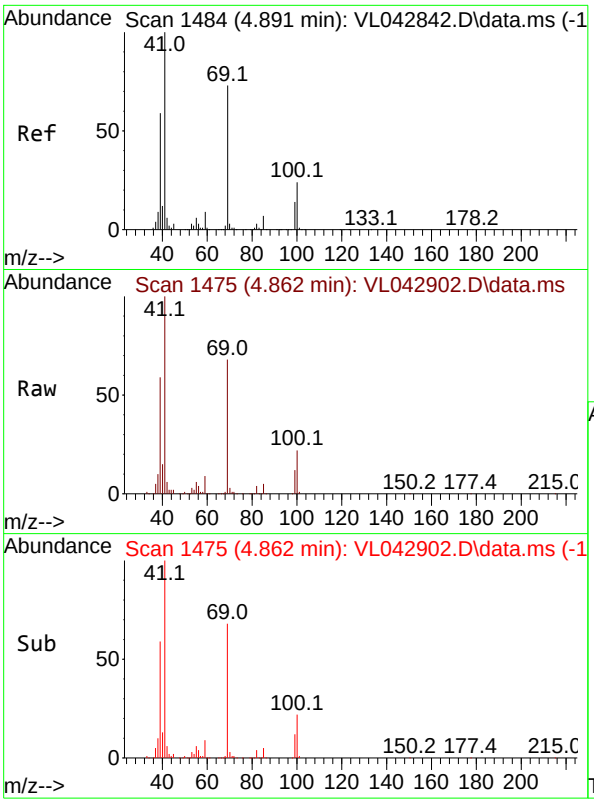


#42
Bromodichloromethane
Concen: 12.351 ppbv
RT: 4.473 min Scan# 1355
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 83 Resp: 336858

Ion	Ratio	Lower	Upper
83	100		
85	60.5	49.8	74.8
127	7.0	5.8	8.6



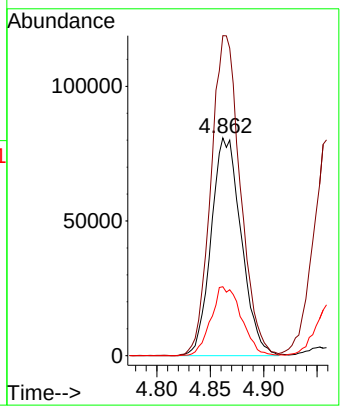


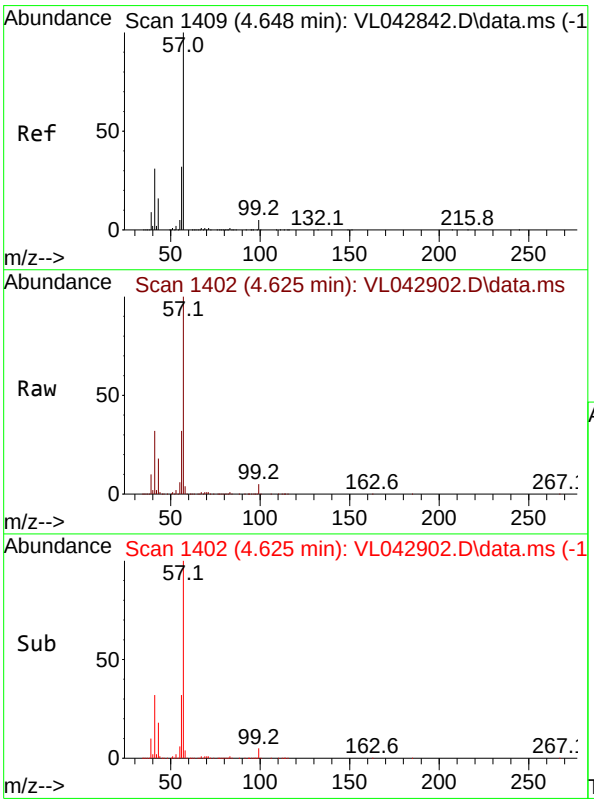
#43
Methyl Methacrylate
Concen: 10.979 ppbv
RT: 4.862 min Scan# 14
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Tgt Ion: 69 Resp: 158457

Ion	Ratio	Lower	Upper
69	100		
41	143.9	114.6	172.0
100	32.1	30.2	45.4

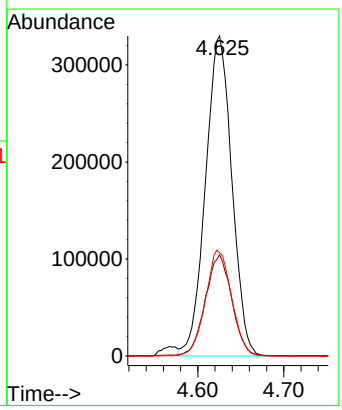


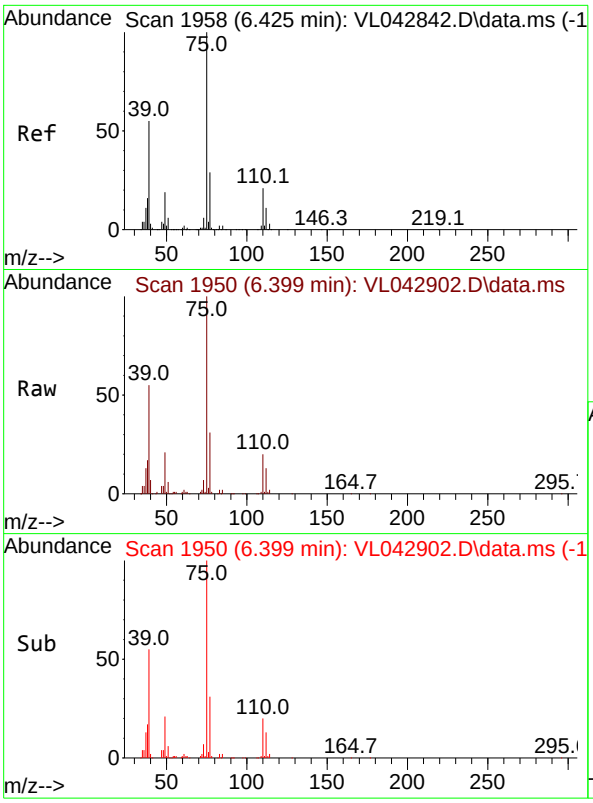


#44
2,2,4-Trimethylpentane
Concen: 11.797 ppbv
RT: 4.625 min Scan# 1402
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 57 Resp: 701486

Ion	Ratio	Lower	Upper
57	100		
41	31.8	24.8	37.2
56	32.7	25.5	38.3



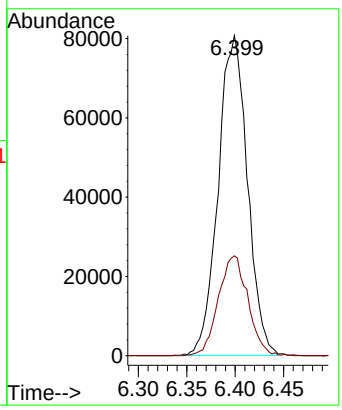


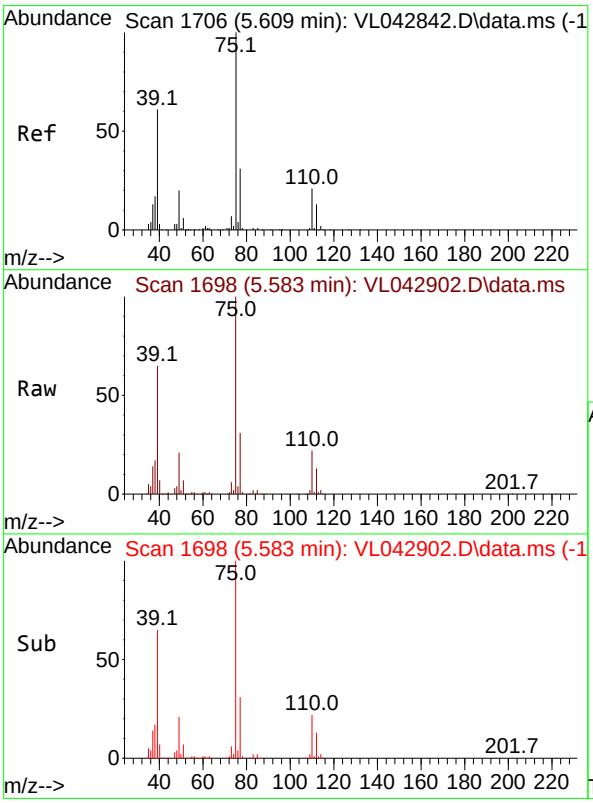
#45
t-1,3-Dichloropropene
Concen: 10.403 ppbv
RT: 6.399 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Tgt Ion: 75 Resp: 169435

Ion	Ratio	Lower	Upper
75	100		
77	31.2	23.8	35.6

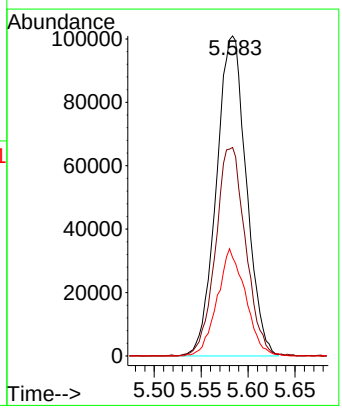


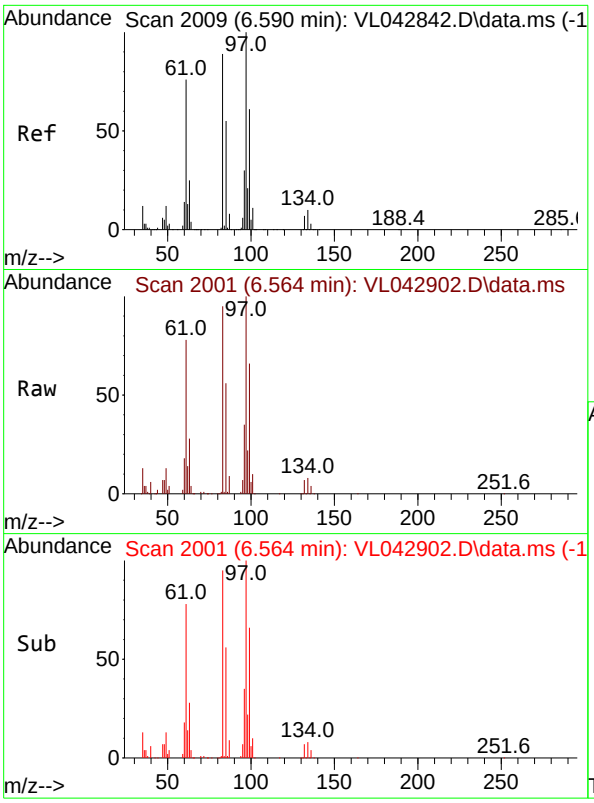


#46
cis-1,3-Dichloropropene
Concen: 11.031 ppbv
RT: 5.583 min Scan# 1698
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 75 Resp: 223871

Ion	Ratio	Lower	Upper
75	100		
39	65.0	48.9	73.3
77	30.8	24.9	37.3



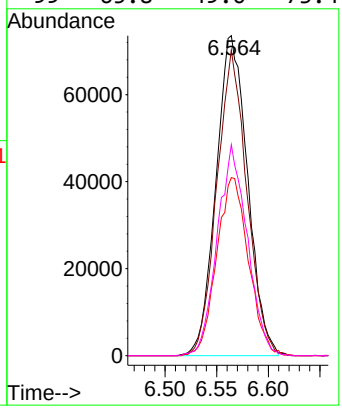


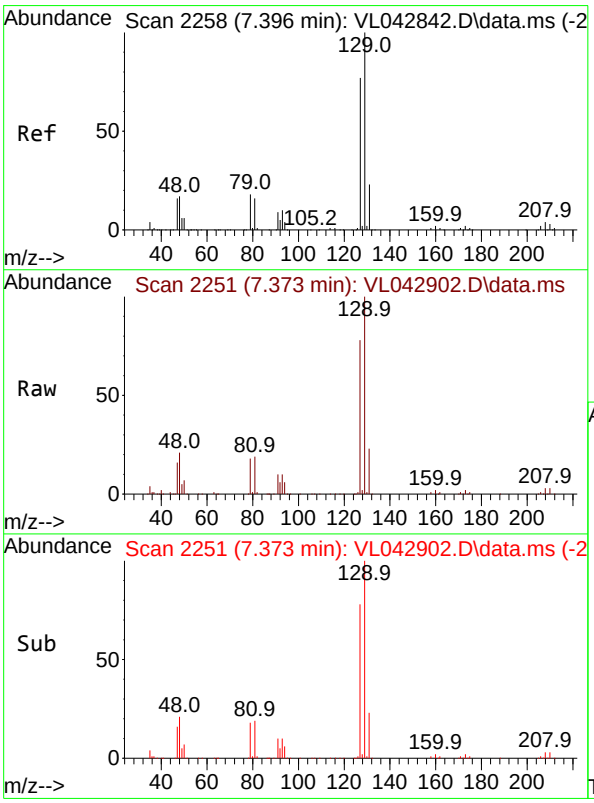
#47
1,1,2-Trichloroethane
Concen: 11.541 ppbv
RT: 6.564 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Tgt Ion: 97 Resp: 156460

Ion	Ratio	Lower	Upper
97	100		
83	95.5	71.0	106.4
85	55.6	43.6	65.4
99	65.8	49.0	73.4

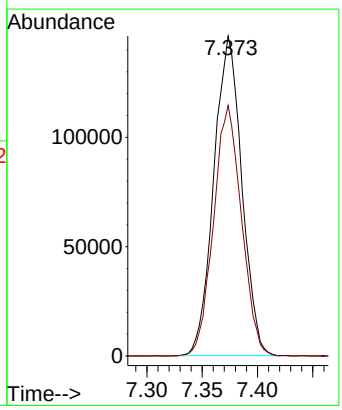


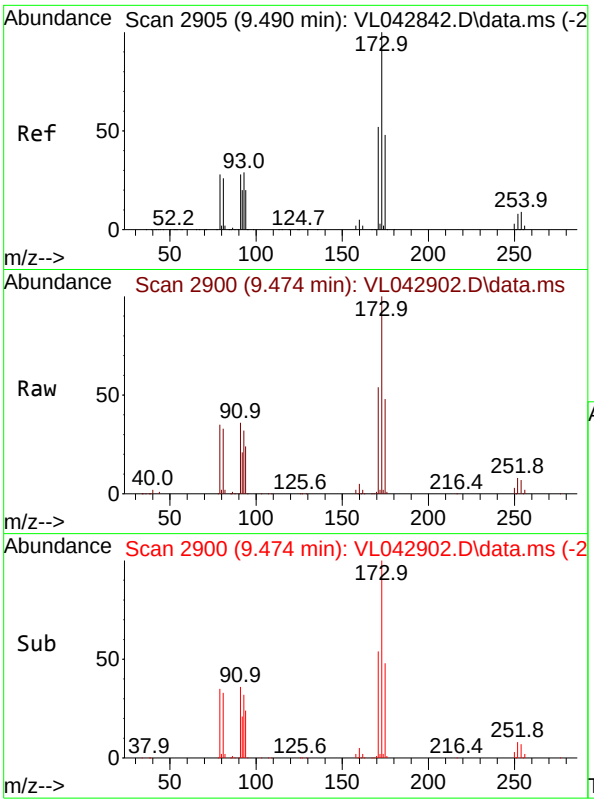


#48
Dibromochloromethane
Concen: 11.712 ppbv
RT: 7.373 min Scan# 2251
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion:129 Resp: 256923

Ion	Ratio	Lower	Upper
129	100		
127	78.3	39.4	118.2



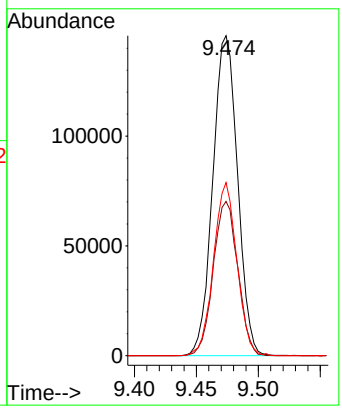


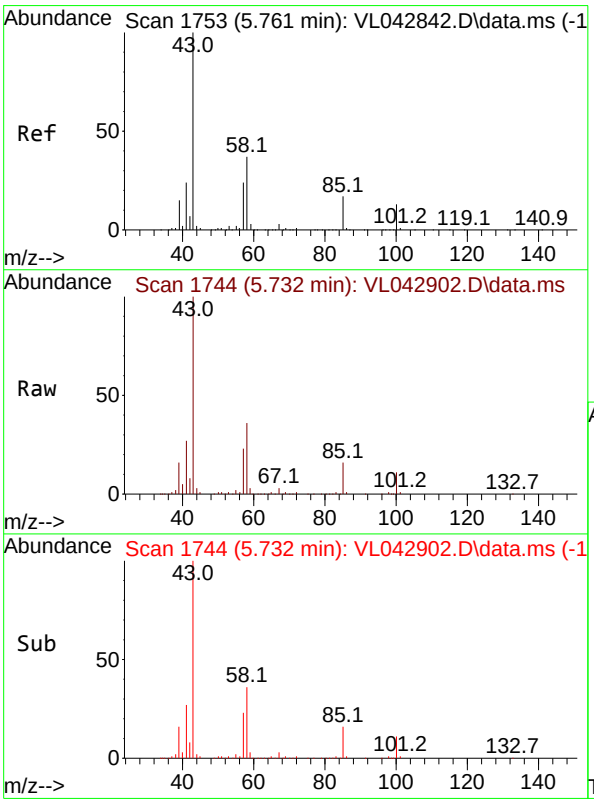
#49
Bromoform
Concen: 11.222 ppbv
RT: 9.474 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Tgt Ion:173 Resp: 203018

Ion	Ratio	Lower	Upper
173	100		
175	47.9	39.2	58.8
171	51.1	41.3	61.9

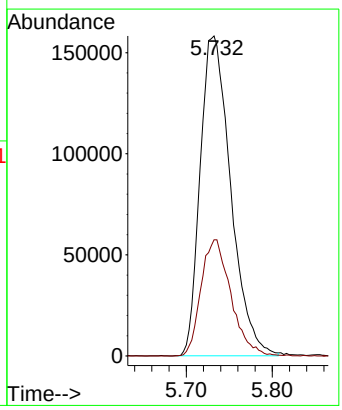


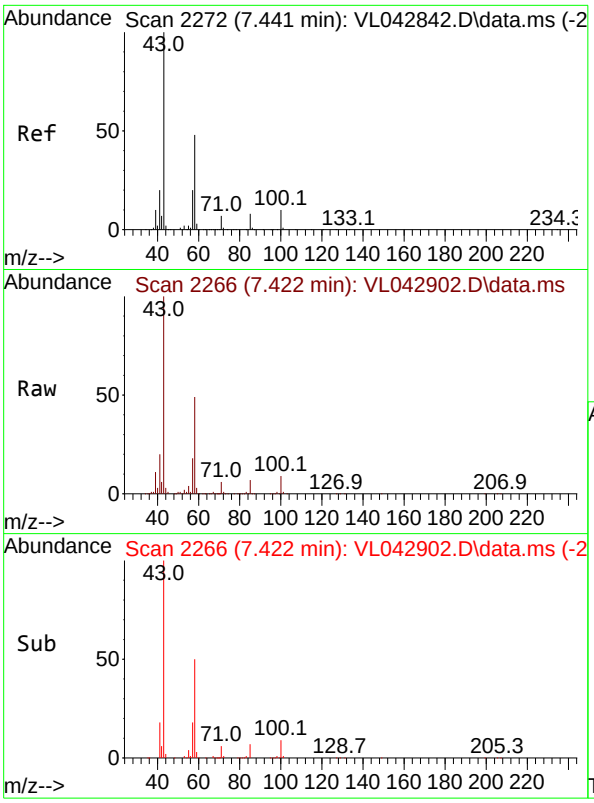


#50
4-Methyl-2-Pentanone
Concen: 11.688 ppbv
RT: 5.732 min Scan# 1744
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 43 Resp: 390291

Ion	Ratio	Lower	Upper
43	100		
58	35.7	29.8	44.8



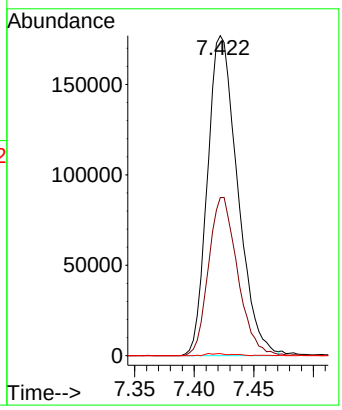


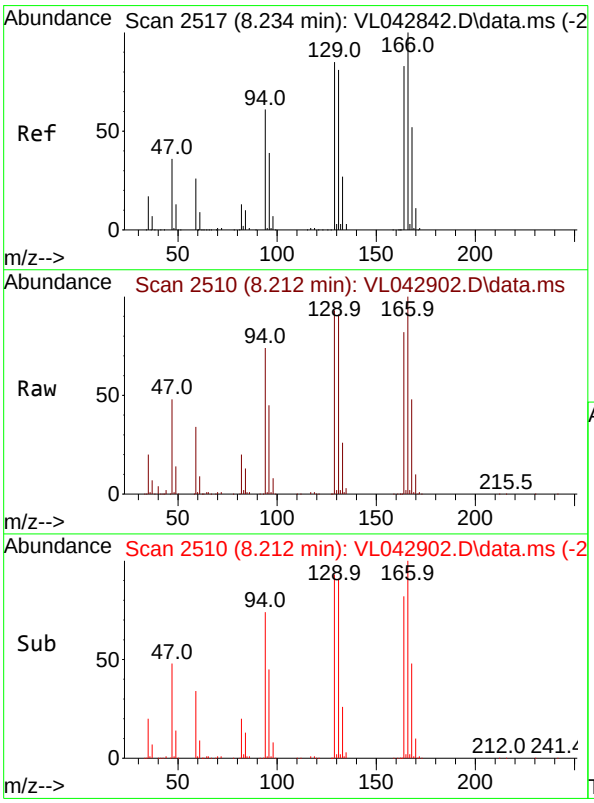
#51
2-Hexanone
Concen: 11.858 ppbv
RT: 7.422 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Tgt Ion: 43 Resp: 311589

Ion	Ratio	Lower	Upper
43	100		
58	47.8	41.0	61.6
98	0.6	0.1	0.1#

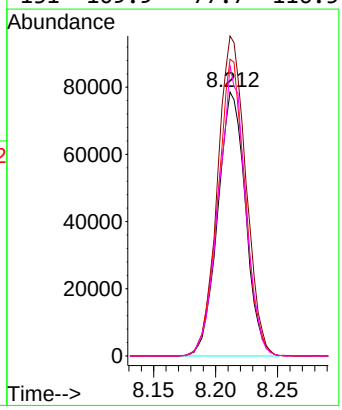


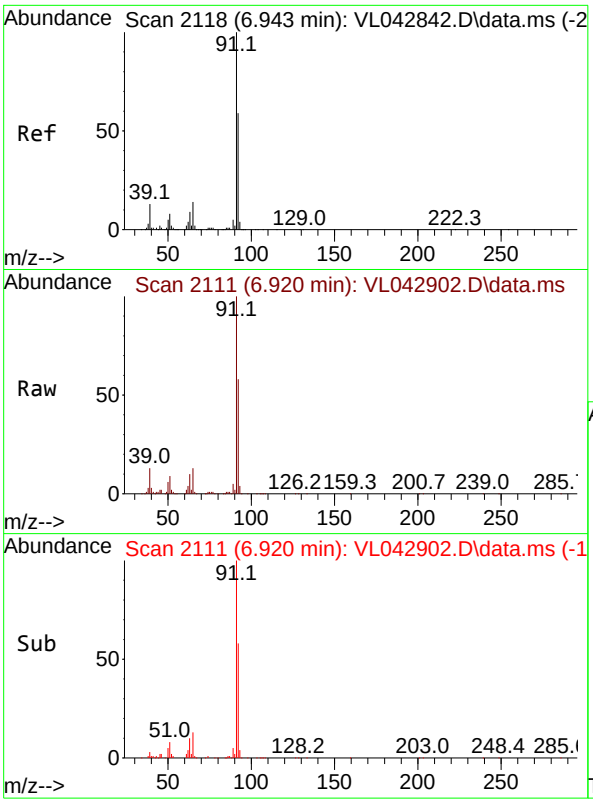


#52
Tetrachloroethene
Concen: 9.644 ppbv
RT: 8.212 min Scan# 2510
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion:164 Resp: 122229

Ion	Ratio	Lower	Upper
164	100		
166	121.3	96.5	144.7
129	112.5	81.8	122.6
131	109.9	77.7	116.5



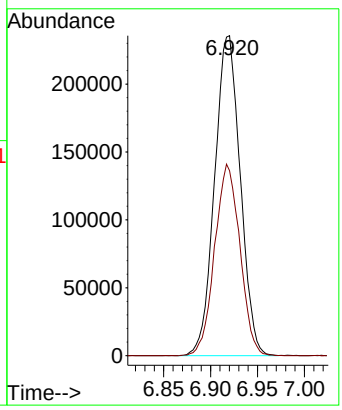


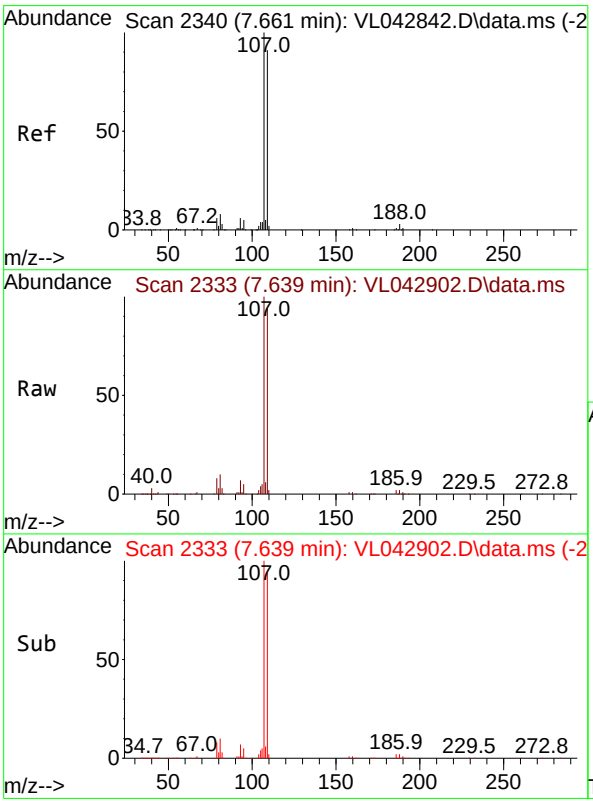
#53
Toluene
Concen: 10.752 ppbv
RT: 6.920 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Tgt Ion: 91 Resp: 447844

Ion	Ratio	Lower	Upper
91	100		
92	58.9	47.8	71.6

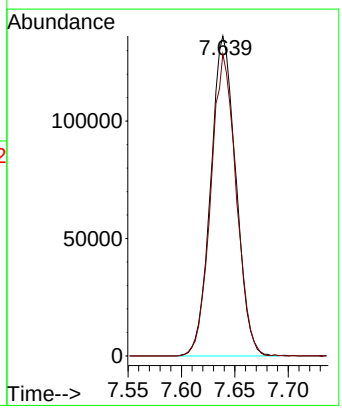


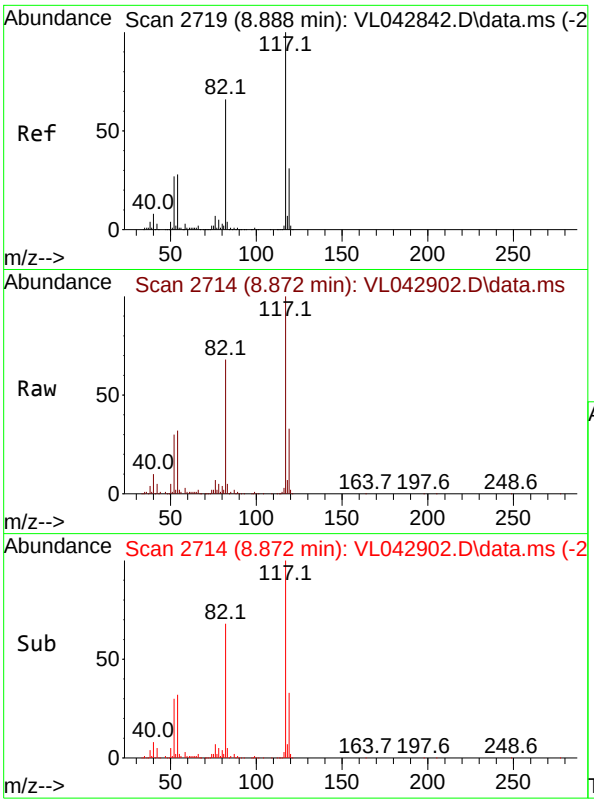


#54
1,2-Dibromoethane
Concen: 11.277 ppbv
RT: 7.639 min Scan# 2333
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion:107 Resp: 223417

Ion	Ratio	Lower	Upper
107	100		
109	94.3	72.5	108.7



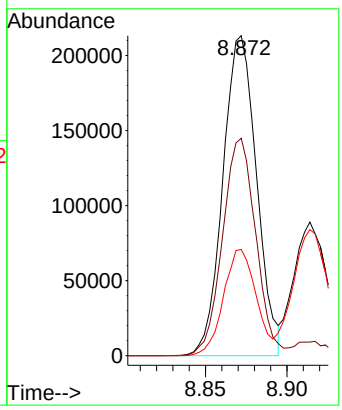


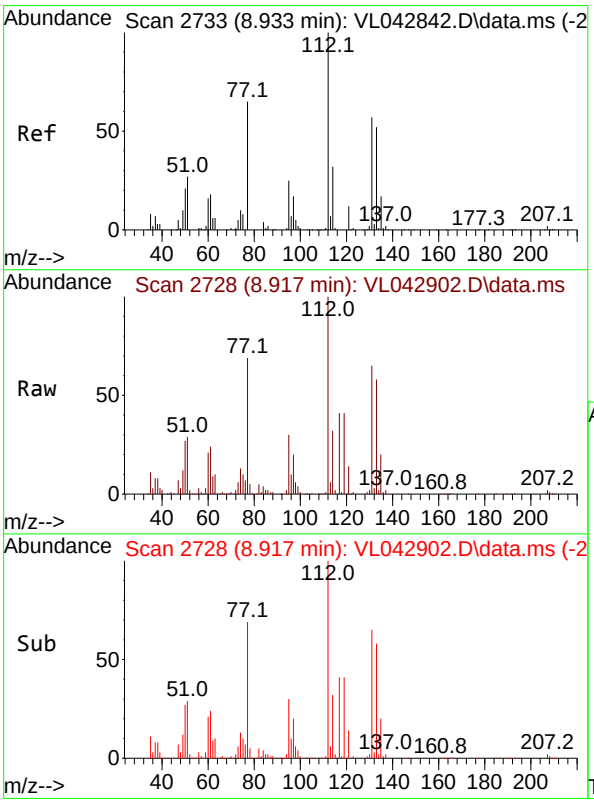
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Tgt Ion:117 Resp: 306385

Ion	Ratio	Lower	Upper
117	100		
82	71.5	54.6	81.8
119	32.3	25.9	38.9

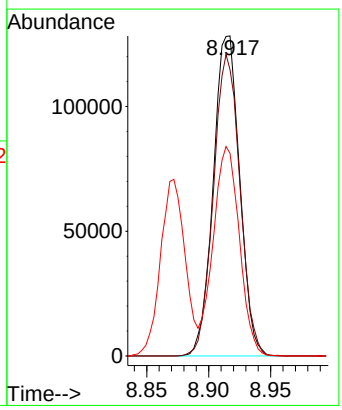


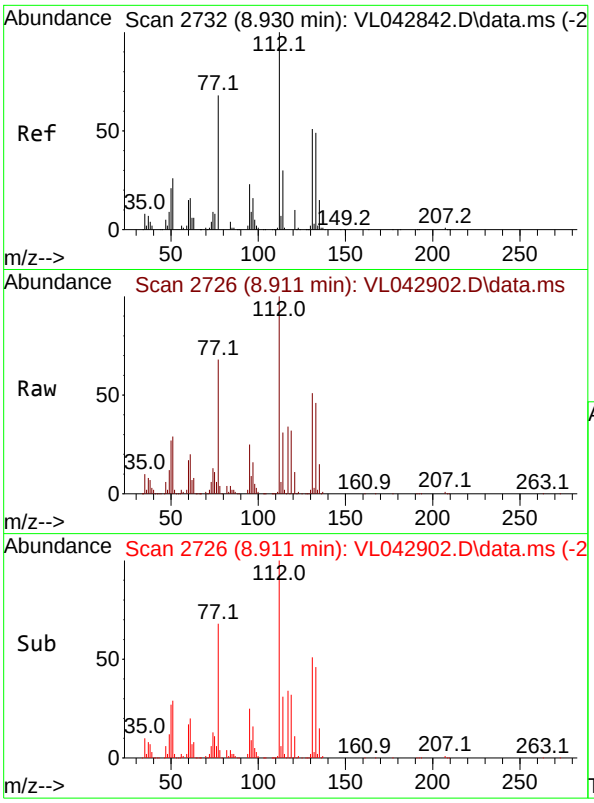


#56
1,1,1,2-Tetrachloroethane
Concen: 12.050 ppbv
RT: 8.917 min Scan# 2728
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion:131 Resp: 190922

Ion	Ratio	Lower	Upper
131	100		
133	94.5	77.4	116.0
119	64.9	51.2	76.8



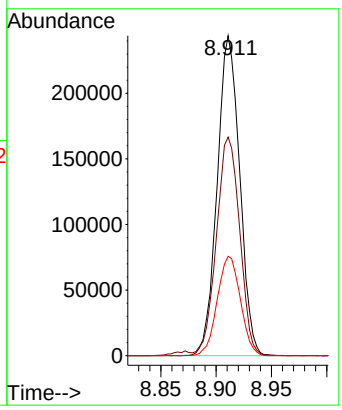


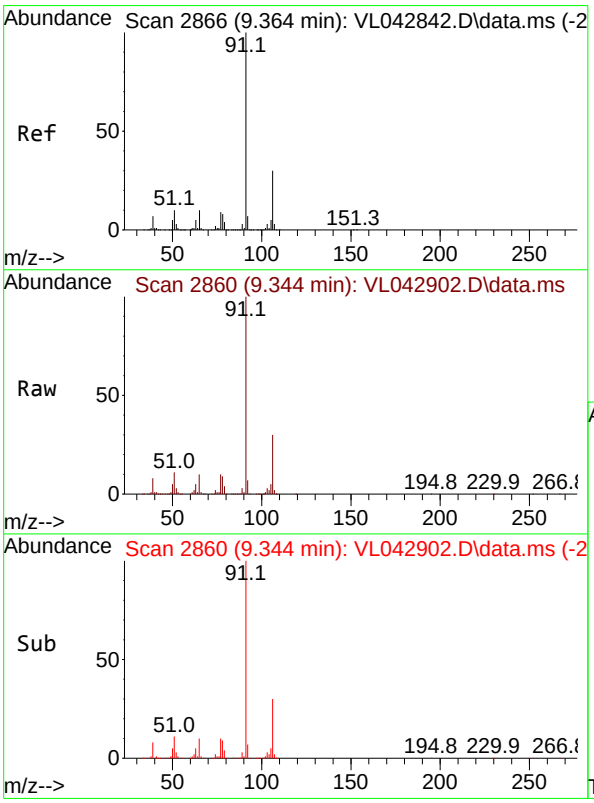
#57
Chlorobenzene
Concen: 11.855 ppbv
RT: 8.911 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Tgt Ion:112 Resp: 345342

Ion	Ratio	Lower	Upper
112	100		
77	68.3	55.5	83.3
114	31.0	27.2	33.2

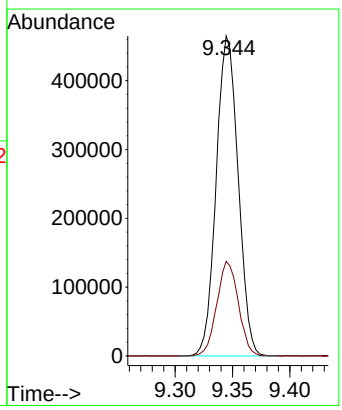


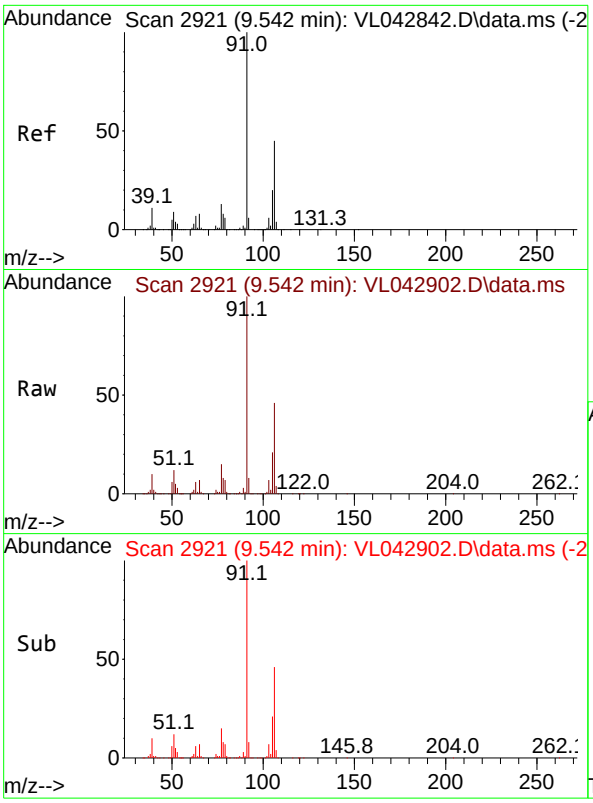


#58
Ethyl Benzene
Concen: 11.442 ppbv
RT: 9.344 min Scan# 2860
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 91 Resp: 618650

Ion	Ratio	Lower	Upper
91	100		
106	29.6	23.9	35.9



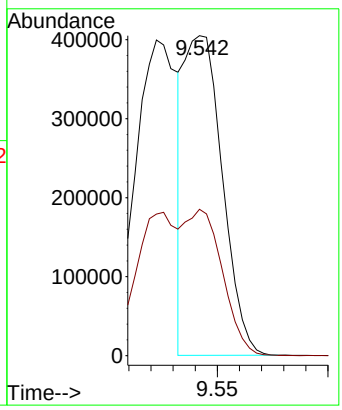


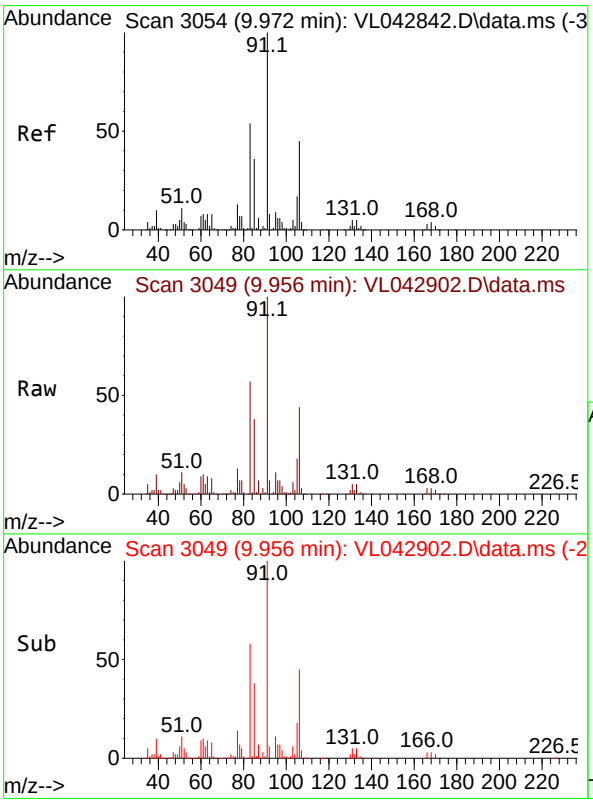
#59
m/p-Xylene
Concen: 11.407 ppbv
RT: 9.542 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Tgt Ion: 91 Resp: 483410

Ion	Ratio	Lower	Upper
91	100		
106	95.0	0.0	0.0#

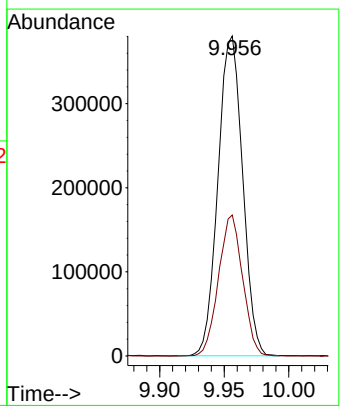


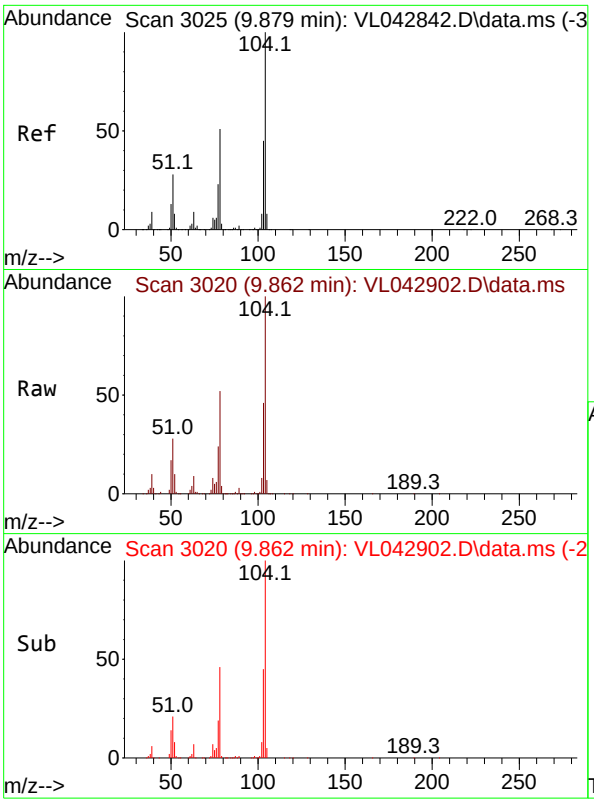


#60
o-Xylene
Concen: 11.844 ppbv
RT: 9.956 min Scan# 3049
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 91 Resp: 504922

Ion	Ratio	Lower	Upper
91	100		
106	43.0	21.8	65.4



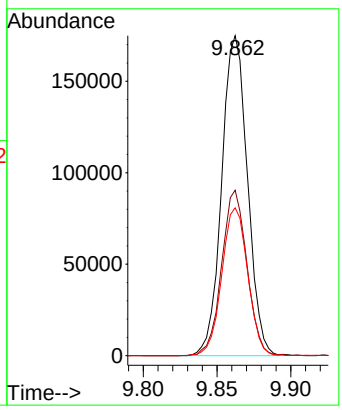


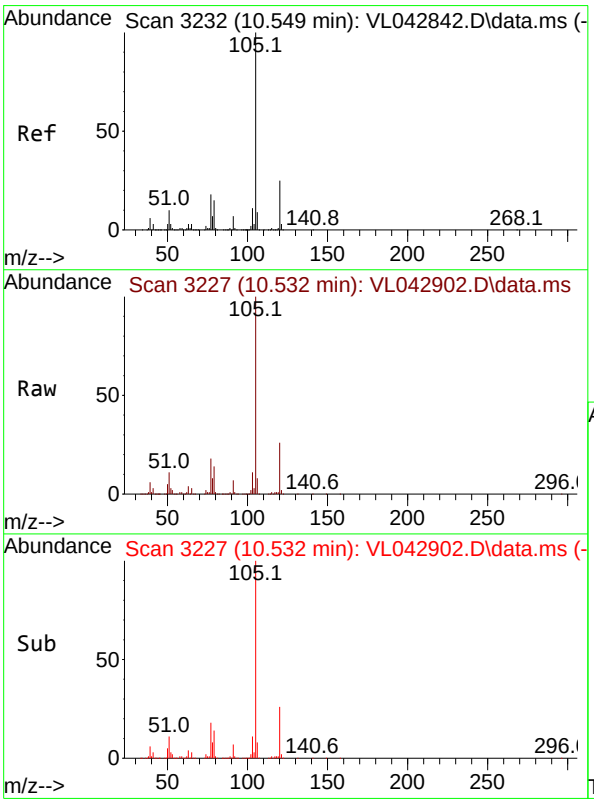
#61
Styrene
Concen: 10.644 ppbv
RT: 9.862 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Tgt Ion:104 Resp: 212594

Ion	Ratio	Lower	Upper
104	100		
78	50.7	40.6	61.0
103	46.6	37.7	56.5

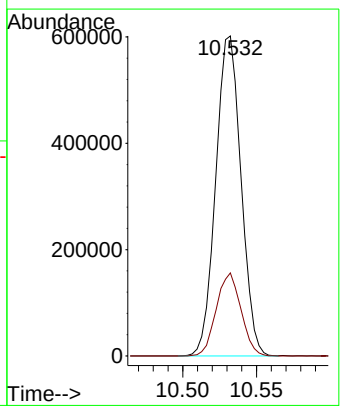


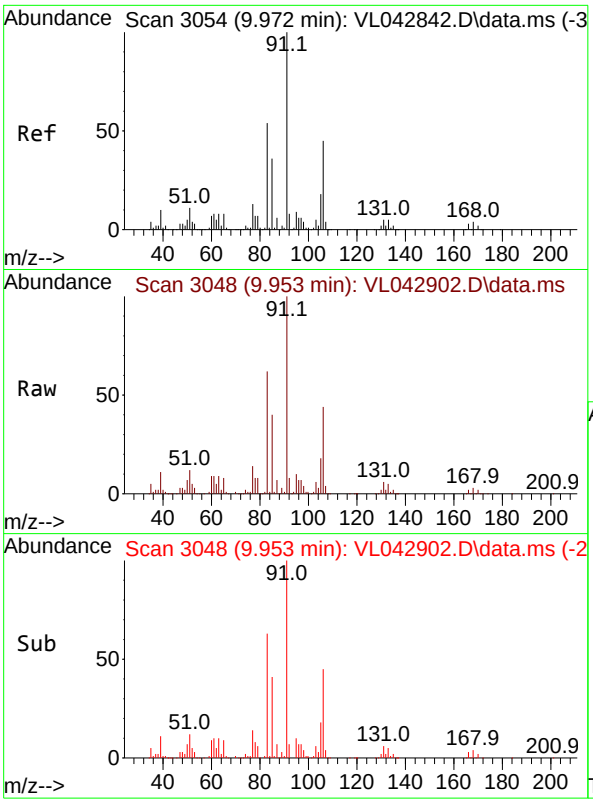


#62
Isopropylbenzene
Concen: 11.521 ppbv
RT: 10.532 min Scan# 3227
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion:105 Resp: 717761

Ion	Ratio	Lower	Upper
105	100		
120	25.3	20.6	30.8



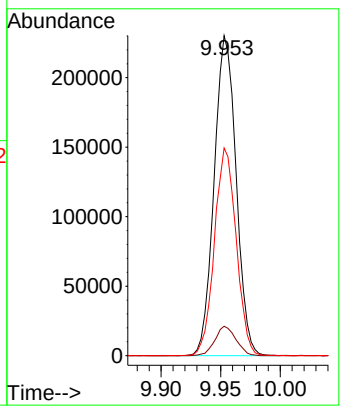


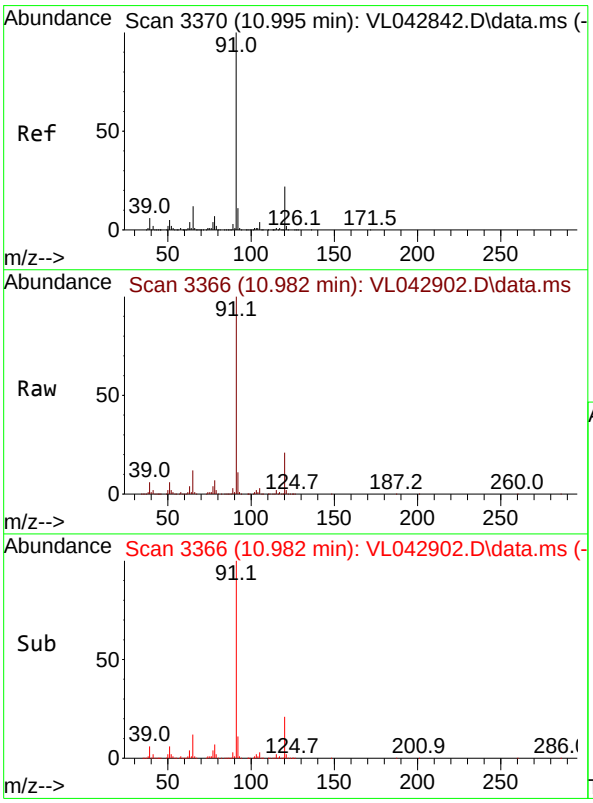
#63
1,1,2,2-Tetrachloroethane
Concen: 12.588 ppbv
RT: 9.953 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Tgt Ion: 83 Resp: 295111

Ion	Ratio	Lower	Upper
83	100		
131	8.8	4.8	14.3
85	64.3	32.3	96.8

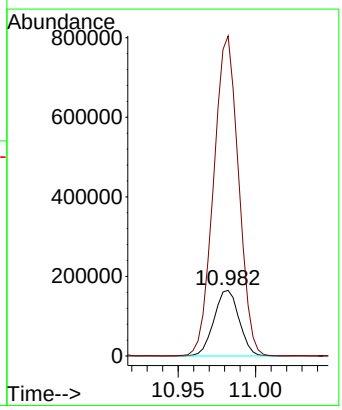


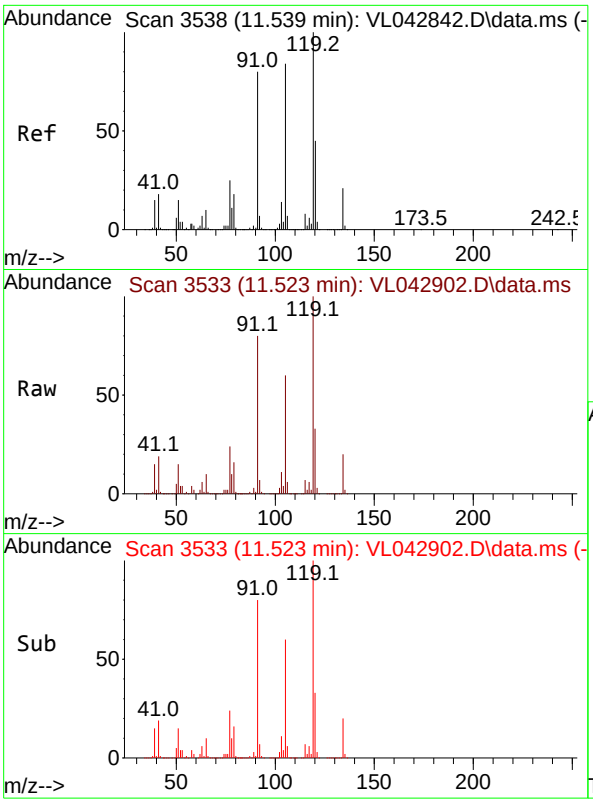


#64
n-propylbenzene
Concen: 11.717 ppbv
RT: 10.982 min Scan# 3366
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion:120 Resp: 186258

Ion	Ratio	Lower	Upper
120	100		
91	484.6	375.8	563.6



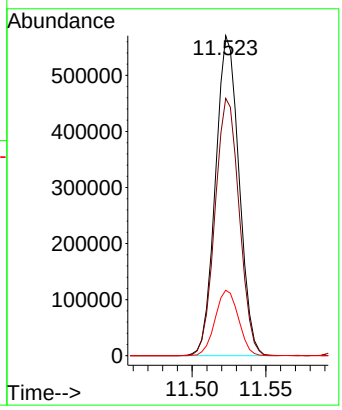


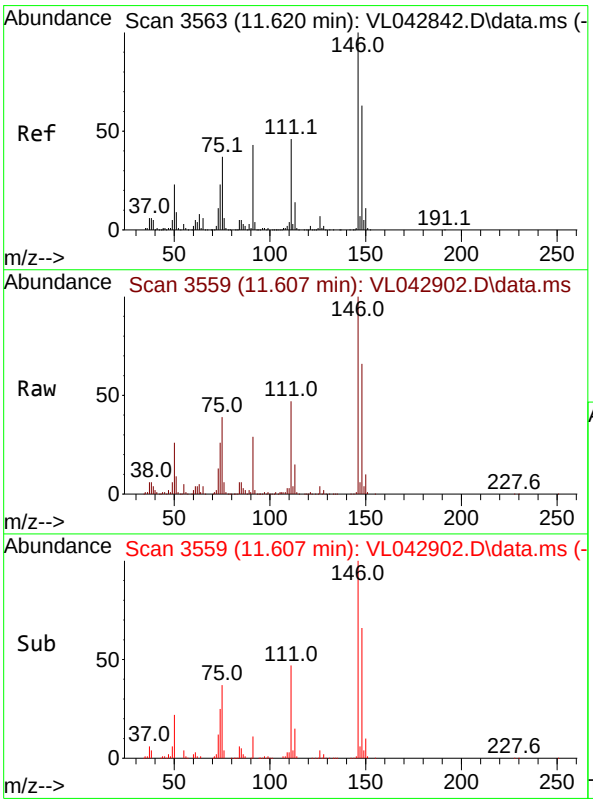
#65
tert-Butylbenzene
Concen: 11.541 ppbv
RT: 11.523 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Tgt Ion:119 Resp: 633844

Ion	Ratio	Lower	Upper
119	100		
91	82.5	63.9	95.9
134	20.3	17.0	25.4

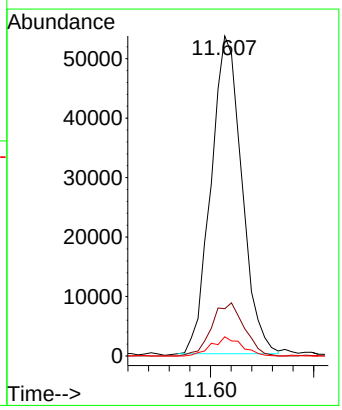


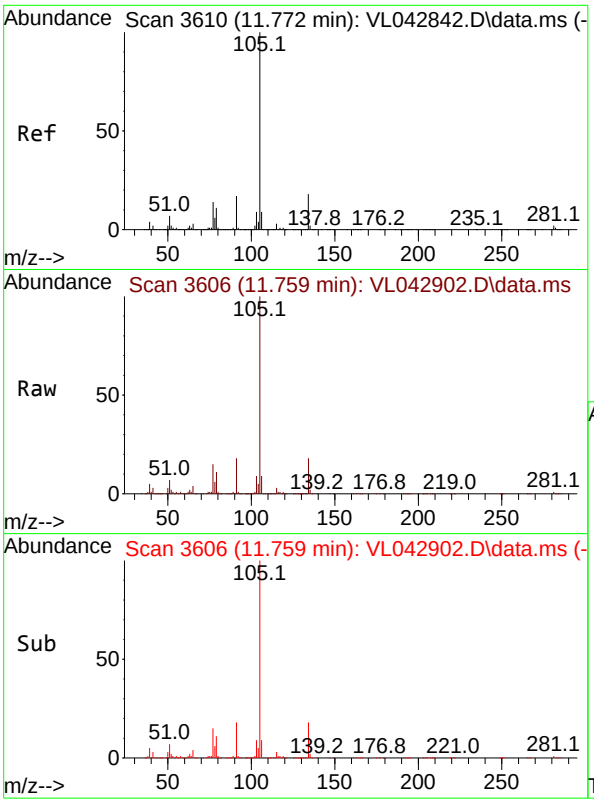


#66
Benzyl Chloride
Concen: 7.954 ppbv
RT: 11.607 min Scan# 3559
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 91 Resp: 55458

Ion	Ratio	Lower	Upper
91	100		
126	17.6	14.2	21.4
128	5.9	5.0	7.6



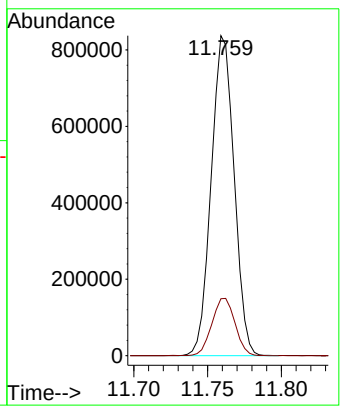


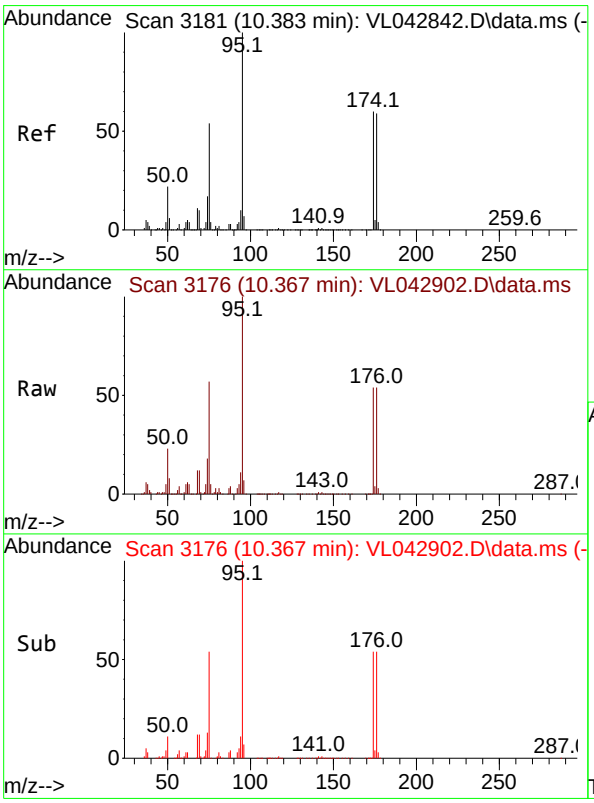
#67
sec-Butylbenzene
Concen: 11.739 ppbv
RT: 11.759 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Tgt Ion:105 Resp: 904977

Ion	Ratio	Lower	Upper
105	100		
134	18.2	14.9	22.3

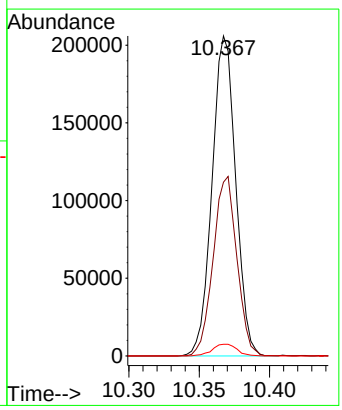


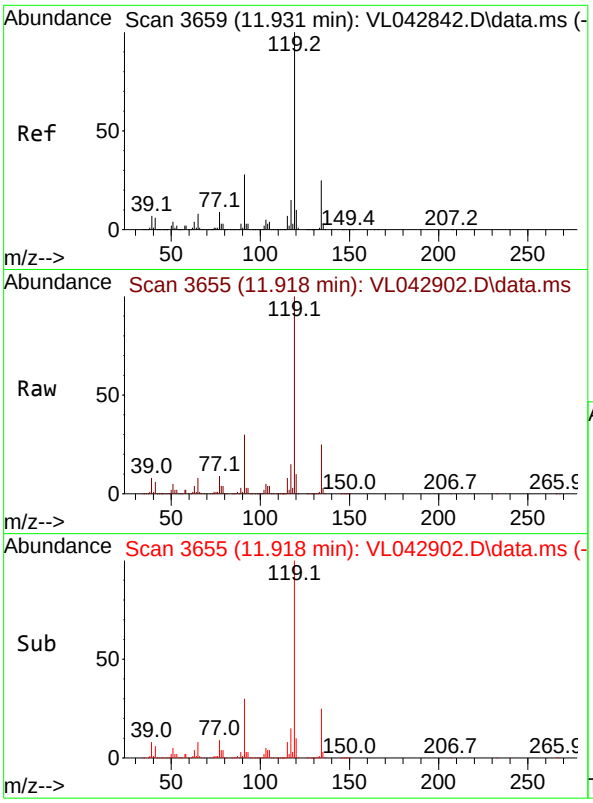


#68
1-Bromo-4-Fluorobenzene
Concen: 10.481 ppbv
RT: 10.367 min Scan# 3176
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 95 Resp: 240840

Ion	Ratio	Lower	Upper
95	100		
174	56.6	48.4	72.6
175	3.8	3.8	5.8



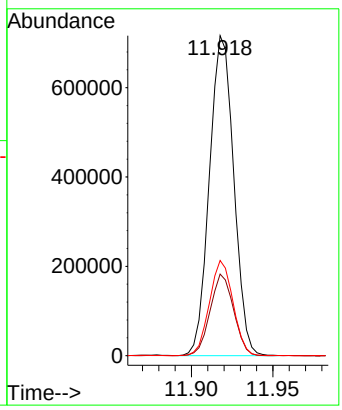


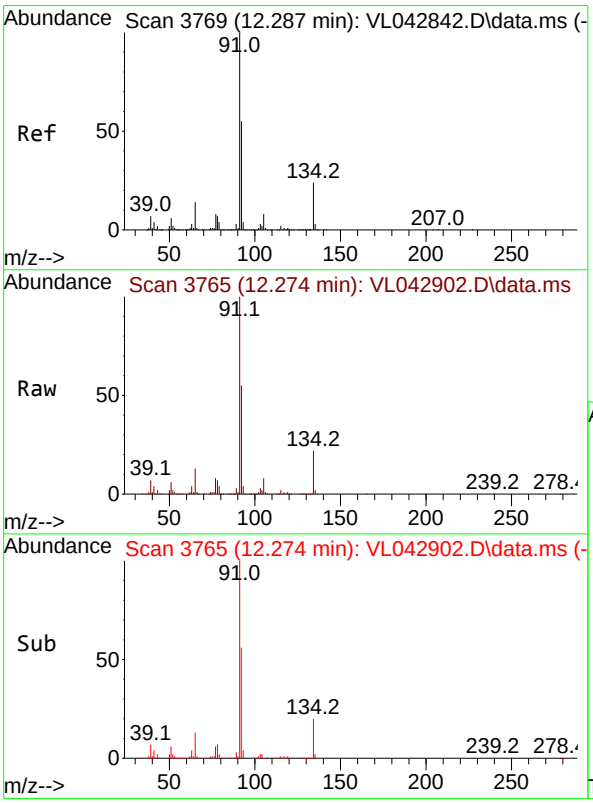
#69
p-Isopropyltoluene
Concen: 11.229 ppbv
RT: 11.918 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Tgt Ion:119 Resp: 743217

Ion	Ratio	Lower	Upper
119	100		
134	24.6	20.6	30.8
91	28.9	22.6	34.0

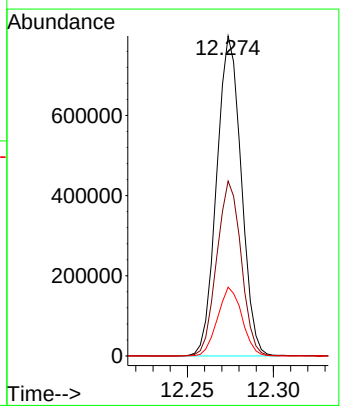


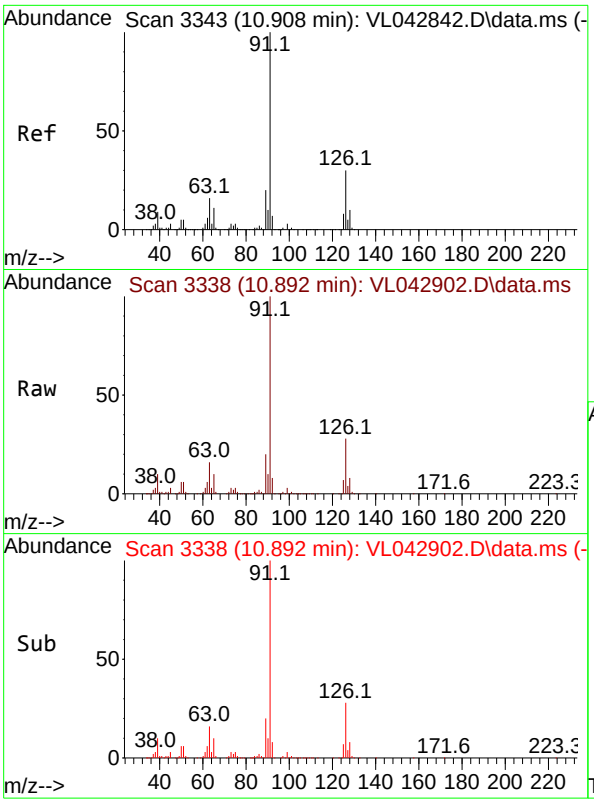


#70
n-Butylbenzene
Concen: 12.084 ppbv
RT: 12.274 min Scan# 3765
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion: 91 Resp: 793205

Ion	Ratio	Lower	Upper
91	100		
92	54.3	44.6	66.8
134	21.4	19.0	28.4



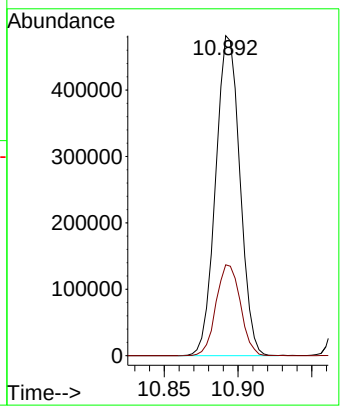


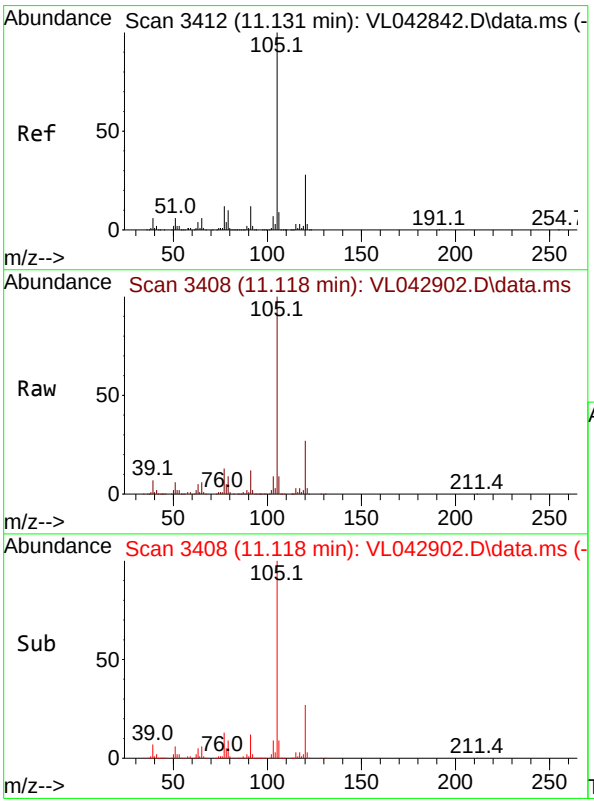
#71
2-Chlorotoluene
Concen: 11.398 ppbv
RT: 10.892 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Tgt Ion: 91 Resp: 551398

Ion	Ratio	Lower	Upper
91	100		
126	28.5	12.0	47.8

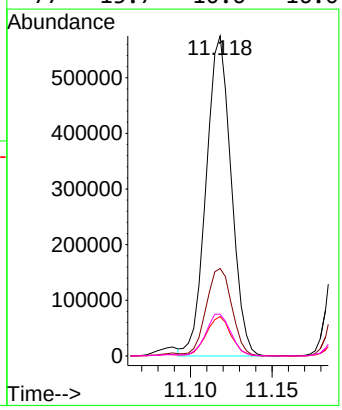


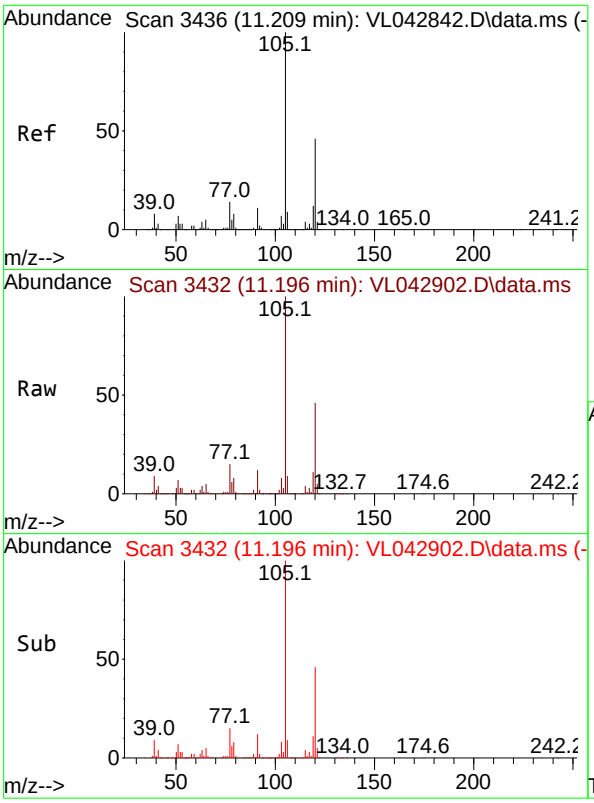


#72
4-Ethyltoluene
Concen: 11.871 ppbv
RT: 11.118 min Scan# 3408
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion:105 Resp: 613510

Ion	Ratio	Lower	Upper
105	100		
120	28.9	23.4	35.2
91	12.5	9.8	14.6
77	13.7	10.6	16.0



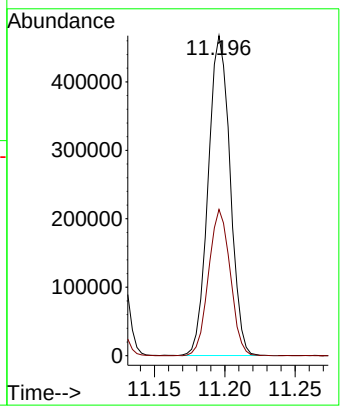


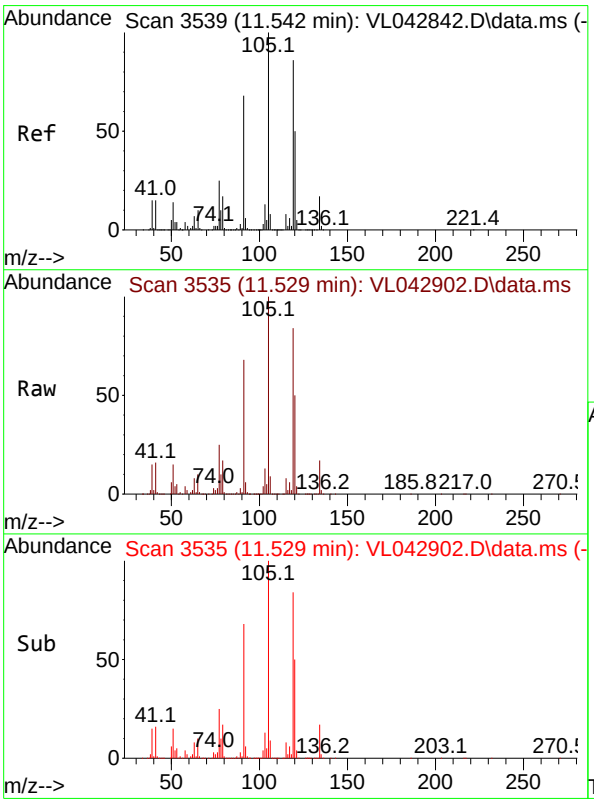
#73
1,3,5-Trimethylbenzene
Concen: 11.496 ppbv
RT: 11.196 min Scan# 34
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Tgt Ion:105 Resp: 505222

Ion	Ratio	Lower	Upper
105	100		
120	45.7	36.6	54.8

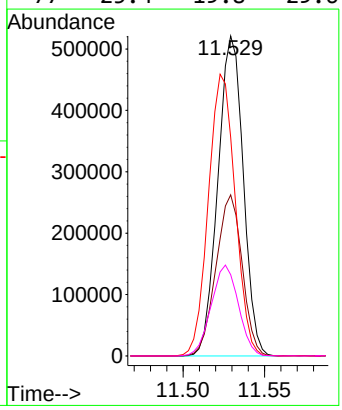


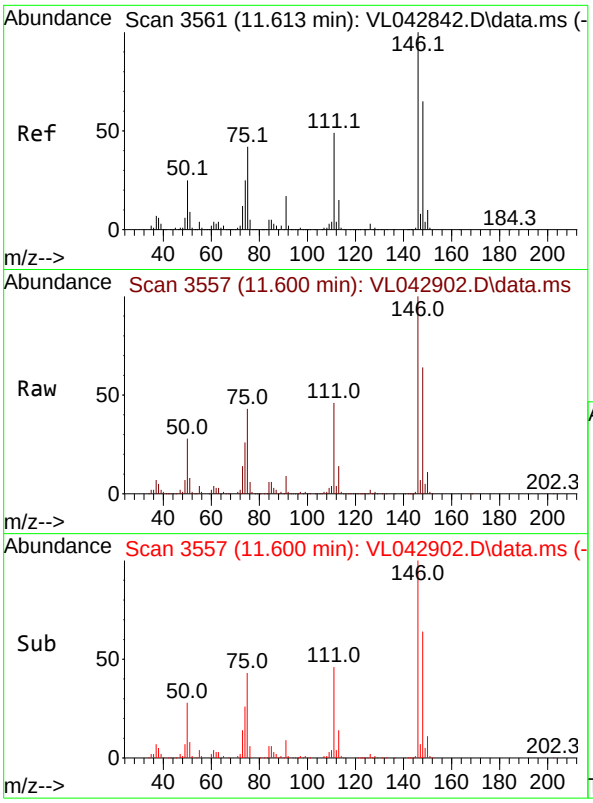


#74
1,2,4-Trimethylbenzene
Concen: 11.668 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion:105 Resp: 562868

Ion	Ratio	Lower	Upper
105	100		
120	50.3	39.8	59.6
91	68.3	54.2	81.4
77	25.4	19.8	29.6



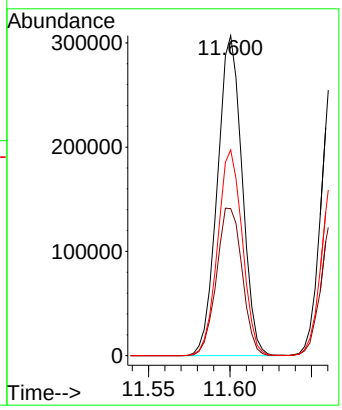


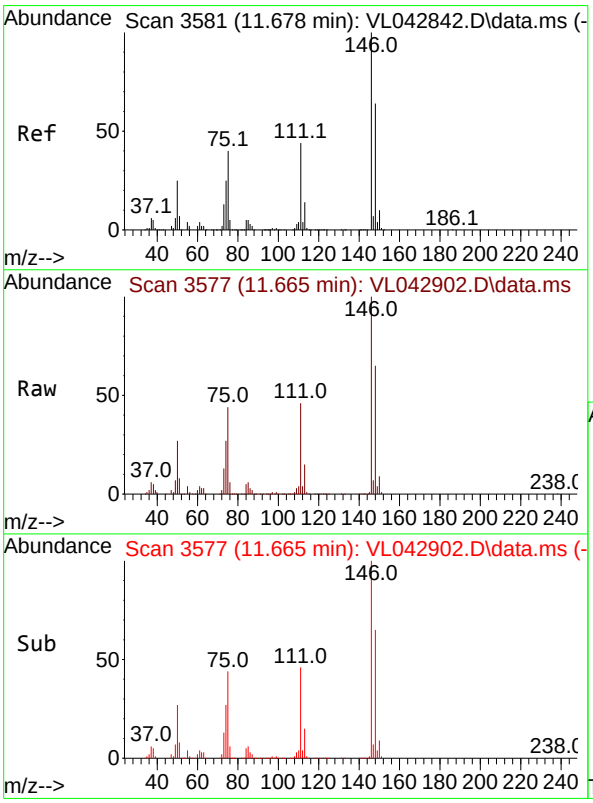
#75
1,3-Dichlorobenzene
Concen: 11.778 ppbv
RT: 11.600 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Tgt Ion:146 Resp: 322979

Ion	Ratio	Lower	Upper
146	100		
111	48.0	23.9	71.7
148	64.2	31.4	94.0

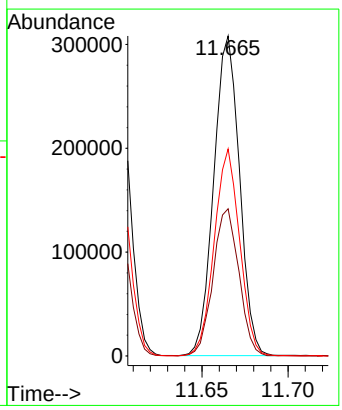


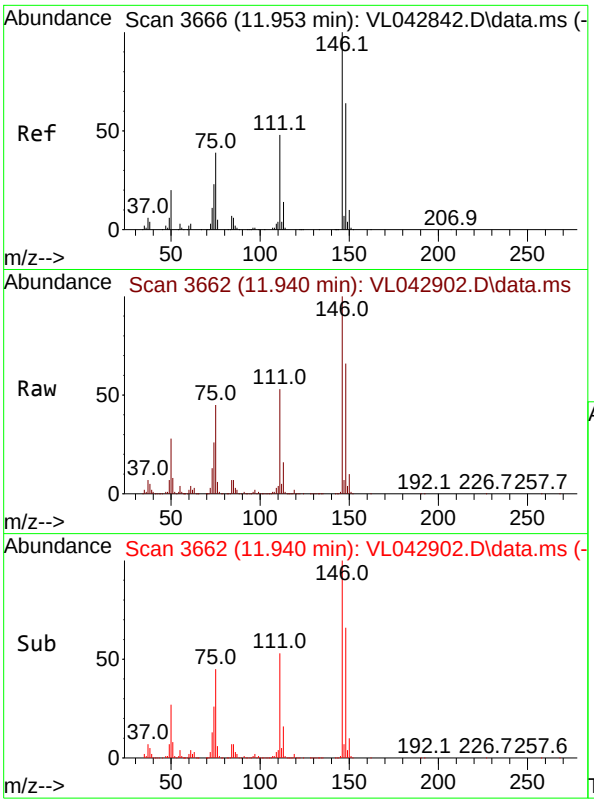


#76
1,4-Dichlorobenzene
Concen: 11.563 ppbv
RT: 11.665 min Scan# 3577
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion:146 Resp: 320689

Ion	Ratio	Lower	Upper
146	100		
111	46.3	22.7	68.1
148	64.1	31.8	95.3



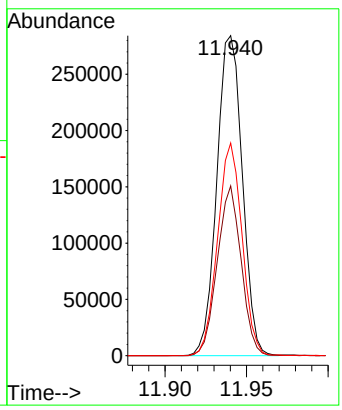


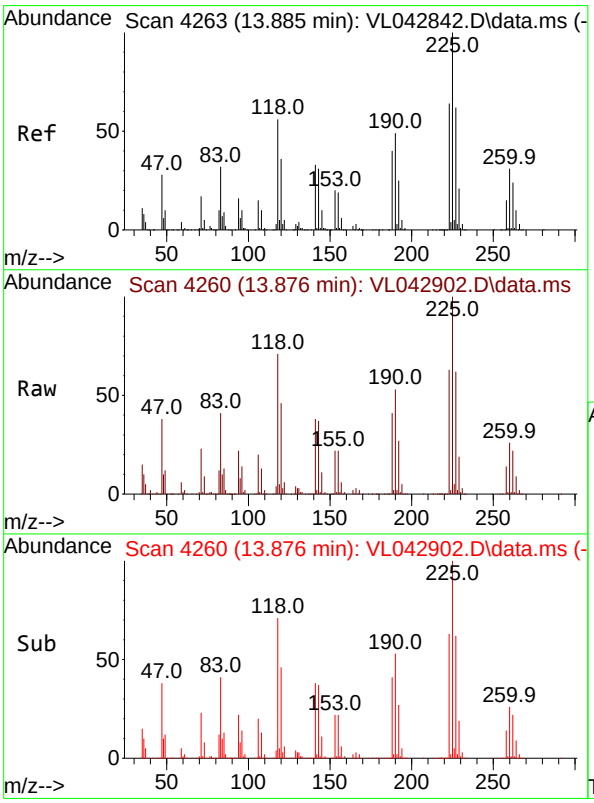
#77
1,2-Dichlorobenzene
Concen: 11.524 ppbv
RT: 11.940 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Tgt Ion:146 Resp: 309433

Ion	Ratio	Lower	Upper
146	100		
111	49.7	24.6	74.0
148	63.7	32.0	96.0

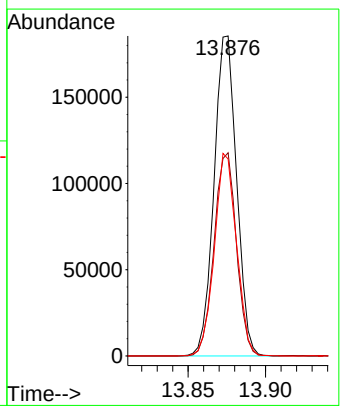


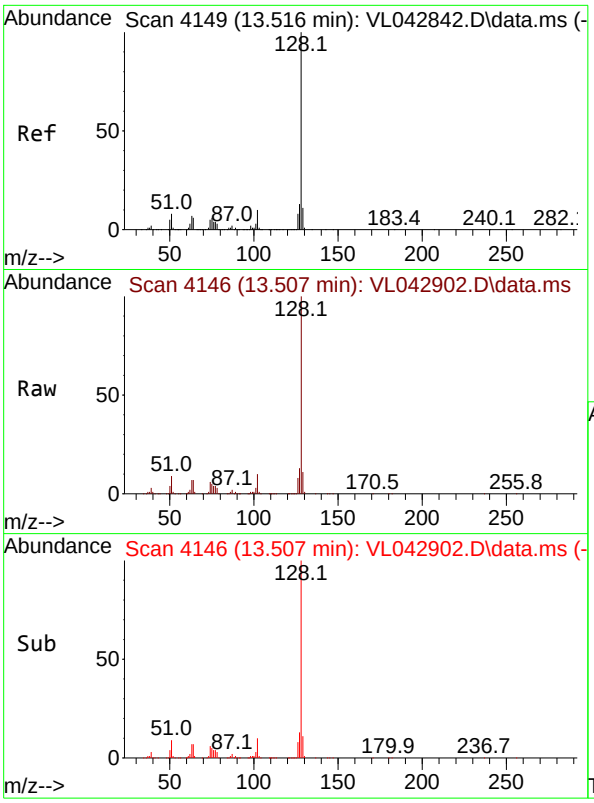


#78
Hexachloro-1,3-Butadiene
Concen: 8.542 ppbv
RT: 13.876 min Scan# 4260
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion:225 Resp: 187990

Ion	Ratio	Lower	Upper
225	100		
223	63.0	51.4	77.2
227	62.1	51.9	77.9



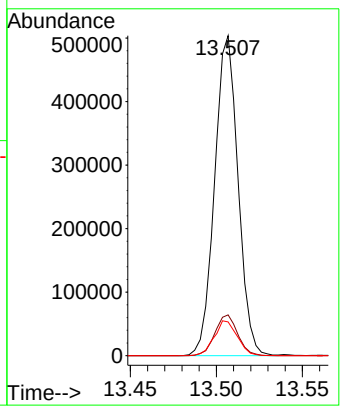


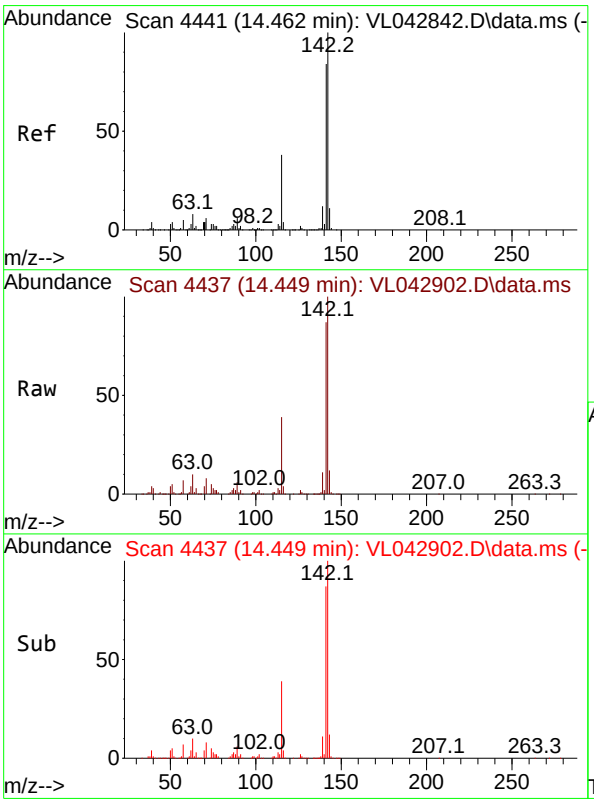
#79
Naphthalene
Concen: 10.914 ppbv
RT: 13.507 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Tgt Ion:128 Resp: 477313

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.6	16.0
129	10.6	8.9	13.3

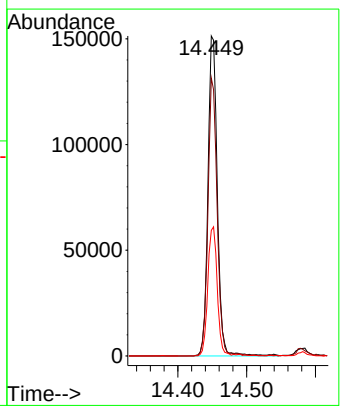


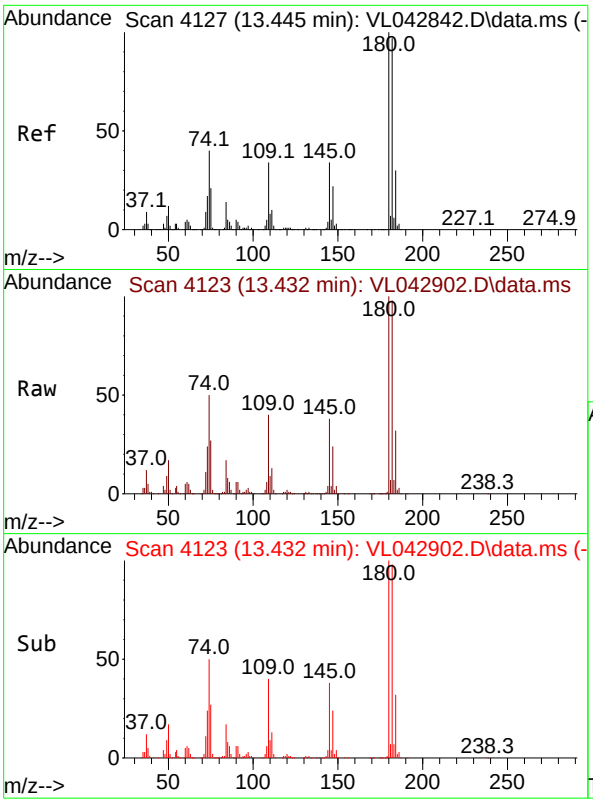


#80
Naphthalene,2-methyl-
Concen: 8.713 ppbv
RT: 14.449 min Scan# 4437
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Tgt Ion:142 Resp: 142381

Ion	Ratio	Lower	Upper
142	100		
141	85.9	67.0	100.6
115	41.3	30.9	46.3



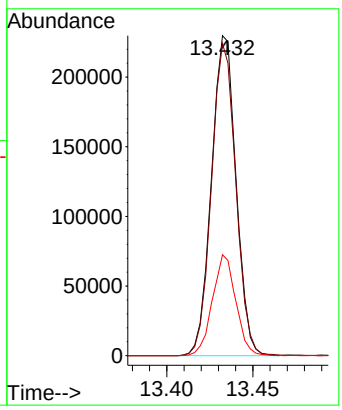


#81
1,2,4-Trichlorobenzene
Concen: 10.401 ppbv
RT: 13.432 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042902.D
Acq: 08 Sep 2025 13:35

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABS01

Tgt Ion:180 Resp: 228630

Ion	Ratio	Lower	Upper
180	100		
182	96.5	76.9	115.3
184	30.0	24.5	36.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
Data File : VL042904.D
Acq On : 08 Sep 2025 15:15
Operator : SY/MD
Sample : Q3037-01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-2

Quant Time: Sep 09 00:56:51 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 : Tue Sep 09 00:52:26 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.784	49	138126	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.952	114	368558	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.875	117	302216	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.370	95	236452	10.432	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 104.300%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.495	85	9878	0.488	ppbv		90
3) Chlorodifluoromethane	1.473	51	93046	4.158	ppbv	#	91
4) Chloromethane	1.531	50	8036	0.984	ppbv		100
7) Chloroethane	1.703	64	380	0.121	ppbv		88
9) Propene	1.884	41	252978	26.179	ppbv		91
10) Heptane	4.965	43	1865	0.072	ppbv		95
11) Trichlorofluoromethane	1.495	101	838	0.042	ppbv		95
12) 1,1,2-Trichlorotrifluo...	2.133	101	1137	0.071	ppbv		87
13) Ethanol	1.719	45	172209	194.899	ppbv		90
15) Acetone	1.832	43	2285778	125.100	ppbv	#	77
16) 1,3-Butadiene	1.618	39	4721	0.570	ppbv	#	21
17) tert-Butyl alcohol	2.039	59	3472	0.160	ppbv	#	1
19) Isopropyl Alcohol	1.884	45	2178522	199.623	ppbv		98
20) Methylene Chloride	2.059	84	8085	1.056	ppbv	#	82
21) Allyl Chloride	1.961	41	7143	0.553	ppbv	#	23
23) Vinyl Acetate	2.450	43	21424	0.853	ppbv	#	92
25) Ethyl Acetate	2.832	43	151536	3.427	ppbv	#	94
26) Hexane	2.822	57	18399	0.901	ppbv	#	1
27) Carbon Disulfide	2.146	76	887	0.045	ppbv	#	70
29) Chloroform	2.845	83	8304	0.285	ppbv		89
31) cis-1,2-Dichloroethene	2.832	61	16434	0.806	ppbv	#	22
34) 2-Butanone	2.557	43	26086	1.048	ppbv		96
35) Carbon Tetrachloride	3.764	117	1143	0.045	ppbv	#	84
36) Benzene	3.657	78	1116	0.032	ppbv	#	72
37) 1,2-Dichloroethane	3.214	62	719	0.039	ppbv	#	79
39) 1,2-Dichloropropane	3.949	63	97418	7.558	ppbv	#	27
40) 1,4-Dioxane	4.583	88	555	0.091	ppbv	#	1
41) Tetrahydrofuran	3.059	42	2514	0.181	ppbv	#	53
43) Methyl Methacrylate	4.874	69	1043	0.072	ppbv	#	1
44) 2,2,4-Trimethylpentane	4.625	57	3374	0.056	ppbv	#	22
50) 4-Methyl-2-Pentanone	5.739	43	34197	1.017	ppbv	#	38
51) 2-Hexanone	7.441	43	2979	0.113	ppbv	#	55
53) Toluene	6.923	91	13909	0.331	ppbv		98
58) Ethyl Benzene	9.351	91	3051	0.057	ppbv		100
60) o-Xylene	9.959	91	4398	0.105	ppbv		100
61) Styrene	9.862	104	831	0.042	ppbv	#	28
64) n-propylbenzene	10.988	120	910	0.058	ppbv	#	1
65) tert-Butylbenzene	11.879	119	2940	0.054	ppbv		92
66) Benzyl Chloride	11.616	91	271	0.039	ppbv	#	65
67) sec-Butylbenzene	12.218	105	3516	0.046	ppbv		97
69) p-Isopropyltoluene	11.917	119	4040	0.062	ppbv	#	85
71) 2-Chlorotoluene	10.853	91	2992	0.063	ppbv		73
72) 4-Ethyltoluene	11.118	105	12697	0.249	ppbv	#	62

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
Data File : VL042904.D
Acq On : 08 Sep 2025 15:15
Operator : SY/MD
Sample : Q3037-01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-2

Quant Time: Sep 09 00:56:51 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 : Tue Sep 09 00:52:26 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
73)	1,3,5-Trimethylbenzene	11.199	105	13893	0.320	ppbv		97
74)	1,2,4-Trimethylbenzene	11.532	105	53900	1.133	ppbv	#	60
79)	Naphthalene	13.513	128	1724	0.040	ppbv		96

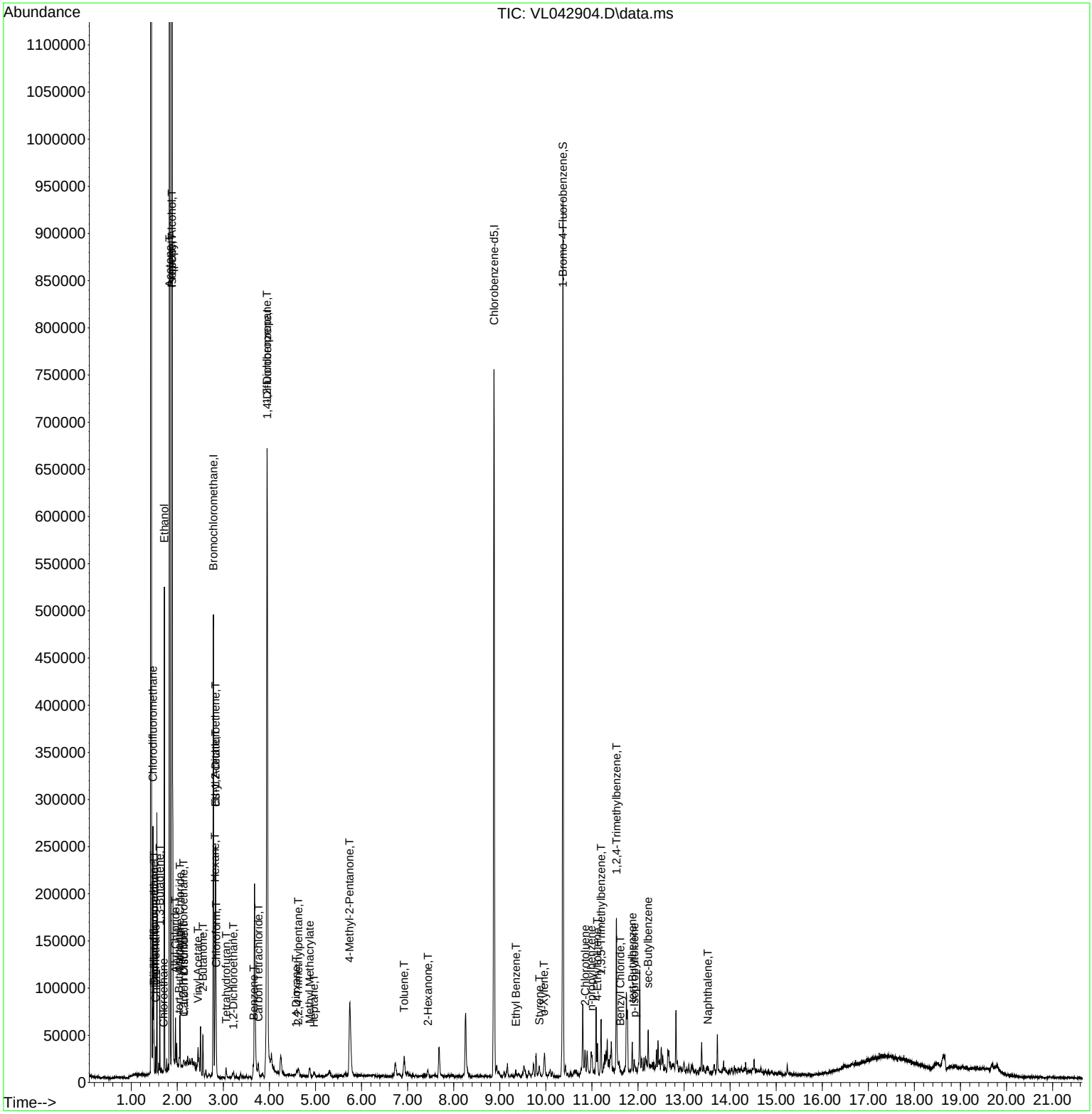
(#) = qualifier out of range (m) = manual integration (+) = signals summed

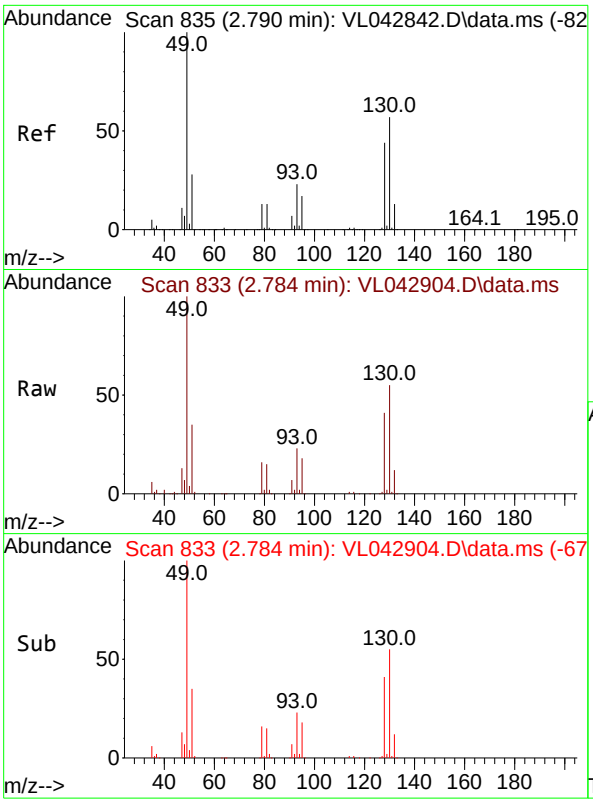
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
Data File : VL042904.D
Acq On : 08 Sep 2025 15:15
Operator : SY/MD
Sample : Q3037-01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-2

Quant Time: Sep 09 00:56:51 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 : Tue Sep 09 00:52:26 2025
Response via : Initial Calibration



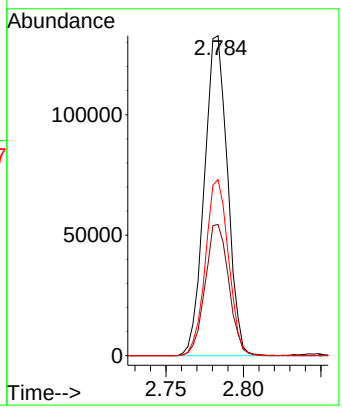


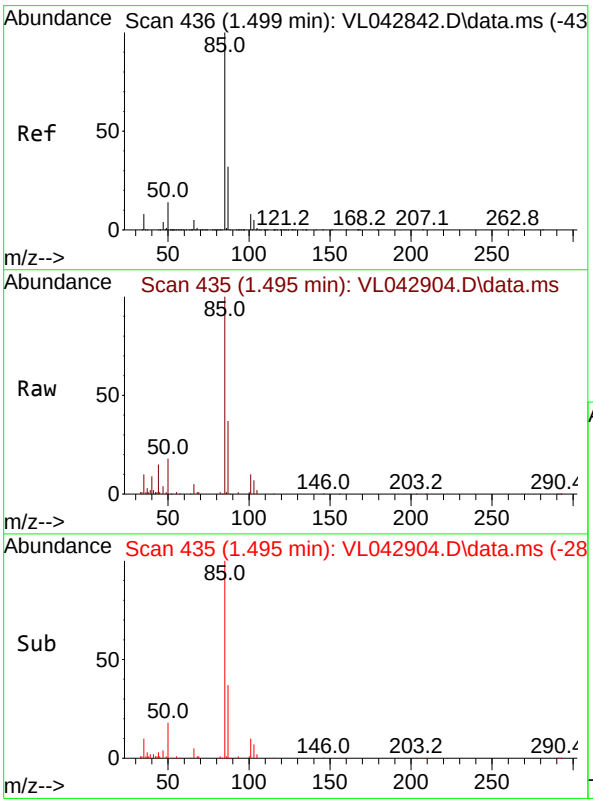
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. 0.007 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Instrument :
MSVOA_L
ClientSampleId :
IA-2

Tgt Ion: 49 Resp: 138126

Ion	Ratio	Lower	Upper
49	100		
128	41.9	23.7	71.1
130	54.7	30.6	91.6

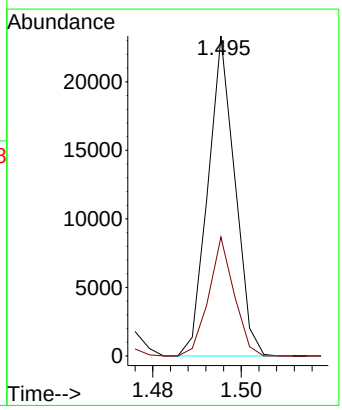


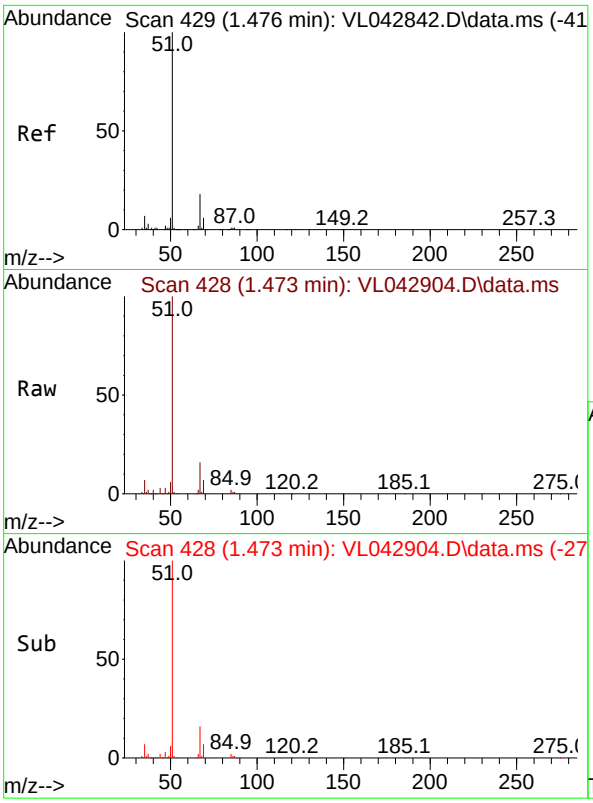


#2
Dichlorodifluoromethane
Concen: 0.488 ppbv
RT: 1.495 min Scan# 435
Delta R.T. 0.003 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion: 85 Resp: 9878

Ion	Ratio	Lower	Upper
85	100		
87	37.1	25.3	37.9



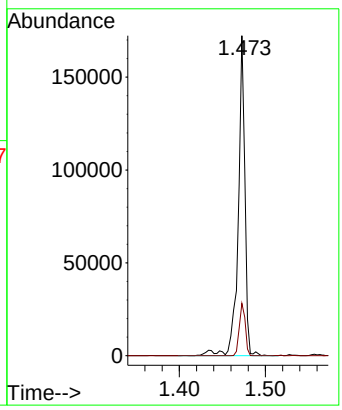


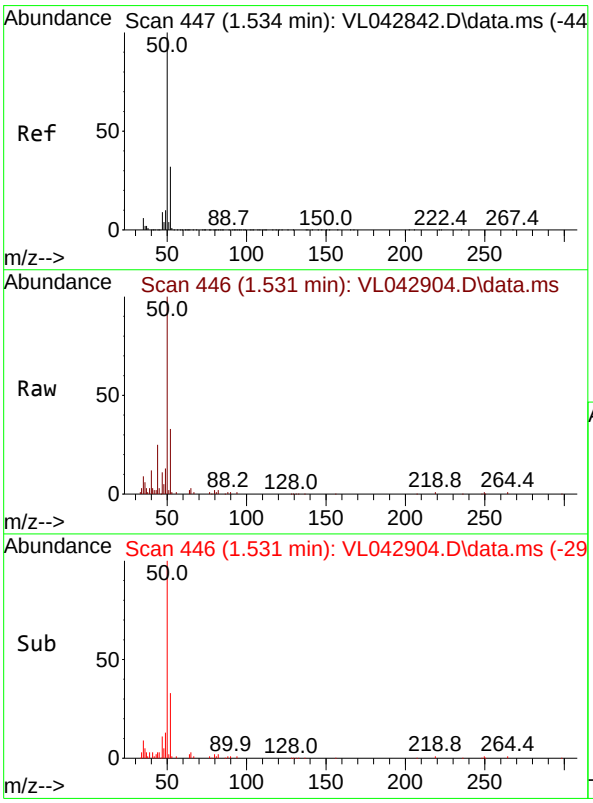
#3
Chlorodifluoromethane
Concen: 4.158 ppbv
RT: 1.473 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Instrument :
MSVOA_L
ClientSampleId :
IA-2

Tgt Ion: 51 Resp: 93046

Ion	Ratio	Lower	Upper
51	100		
67	14.6	14.9	22.3#

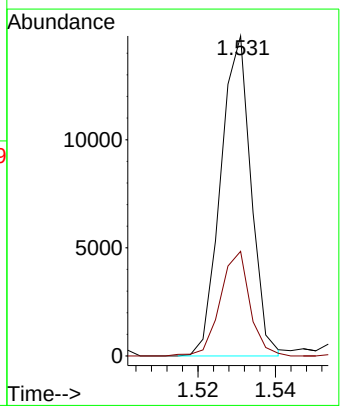


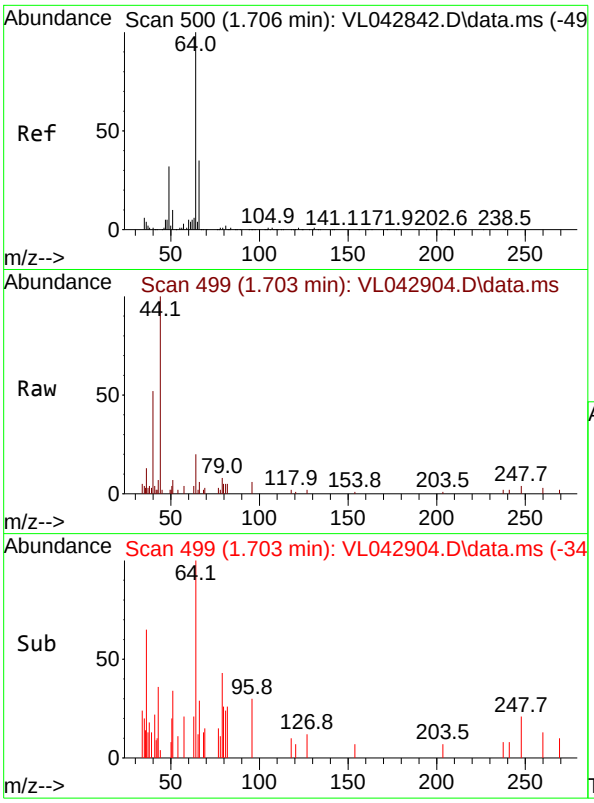


#4
Chloromethane
Concen: 0.984 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.003 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion: 50 Resp: 8036

Ion	Ratio	Lower	Upper
50	100		
52	32.2	25.9	38.9



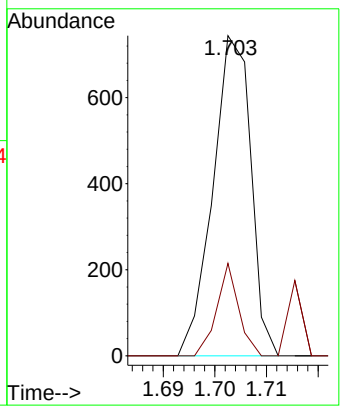


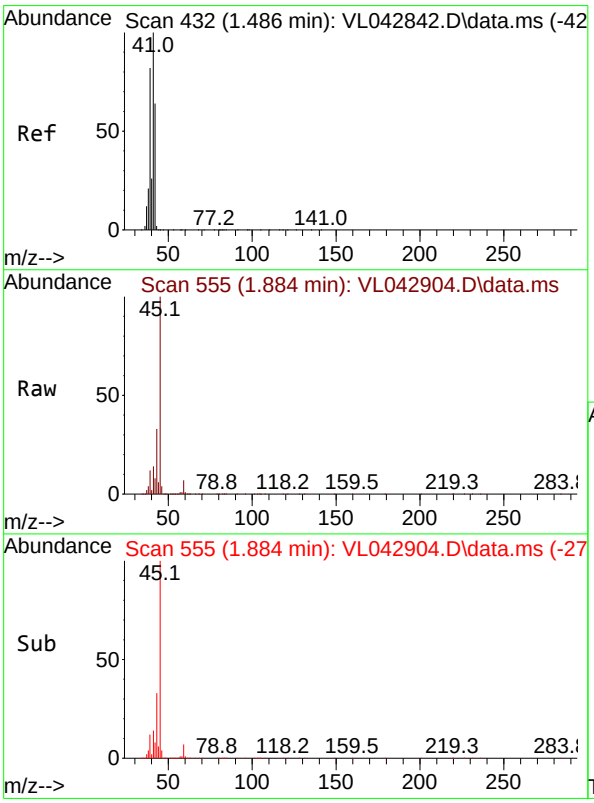
#7
Chloroethane
Concen: 0.121 ppbv
RT: 1.703 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Instrument :
MSVOA_L
ClientSampleId :
IA-2

Tgt Ion: 64 Resp: 380

Ion	Ratio	Lower	Upper
64	100		
66	28.9	28.6	42.8

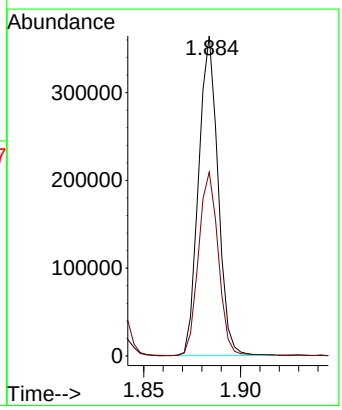


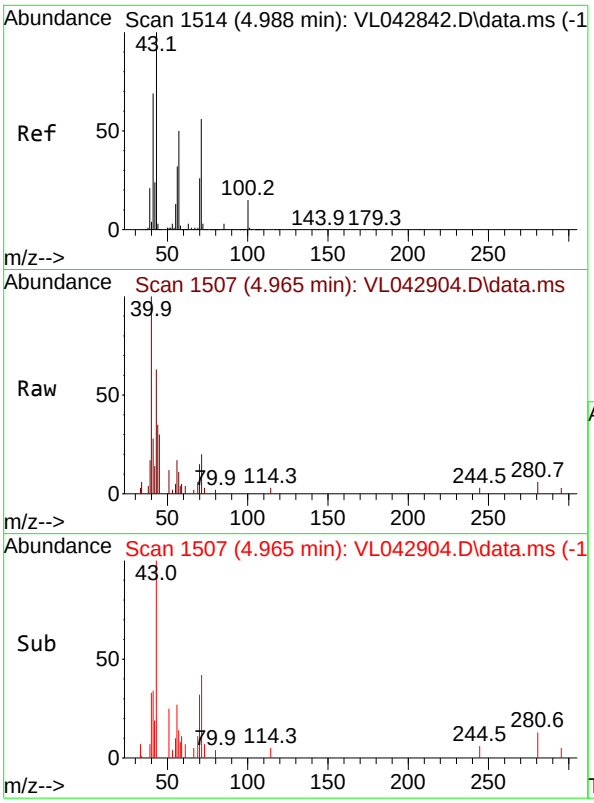


#9
Propene
Concen: 26.179 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.408 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion: 41 Resp: 252978

Ion	Ratio	Lower	Upper
41	100		
42	58.9	53.0	79.4



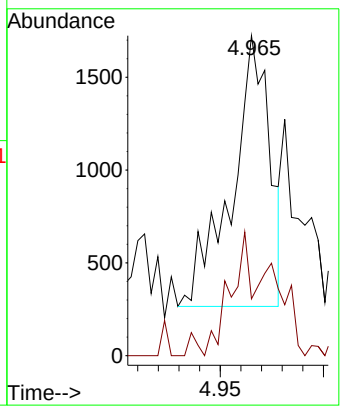


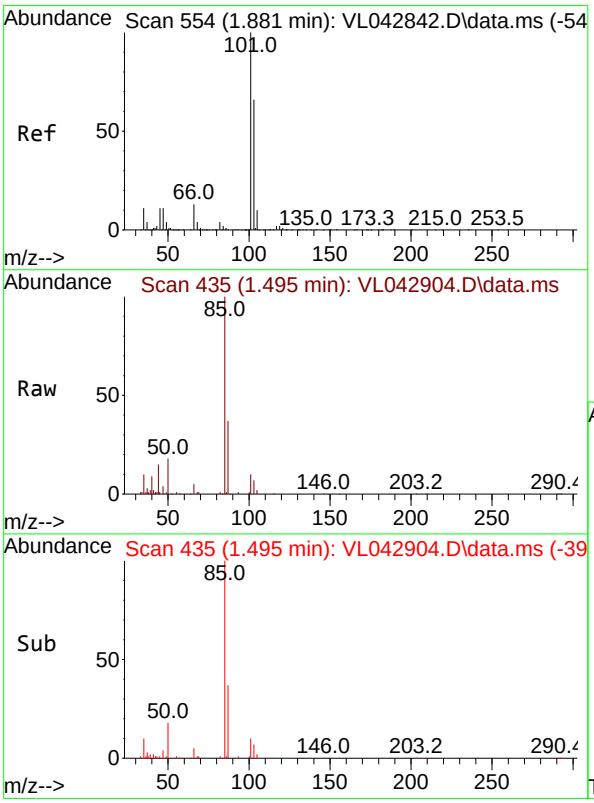
#10
Heptane
Concen: 0.072 ppbv
RT: 4.965 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Instrument :
MSVOA_L
ClientSampleId :
IA-2

Tgt Ion: 43 Resp: 1865

Ion	Ratio	Lower	Upper
43	100		
57	55.3	41.4	62.0

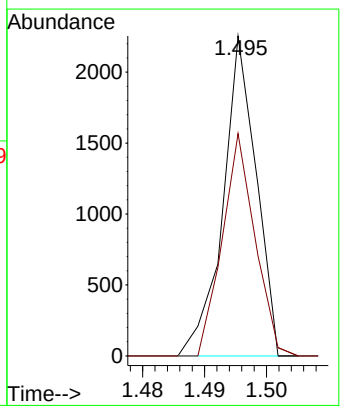


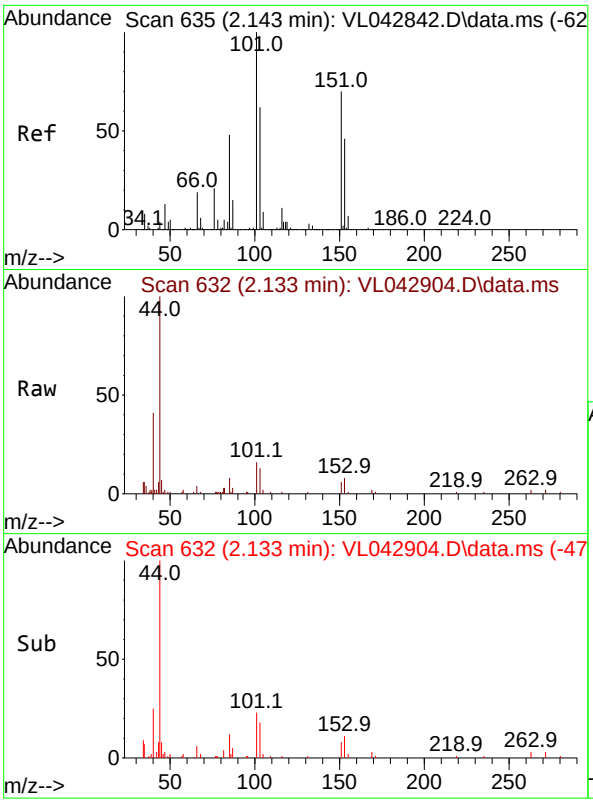


#11
Trichlorofluoromethane
Concen: 0.042 ppbv
RT: 1.495 min Scan# 435
Delta R.T. -0.376 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion:101 Resp: 838

Ion	Ratio	Lower	Upper
101	100		
103	69.5	52.5	78.7



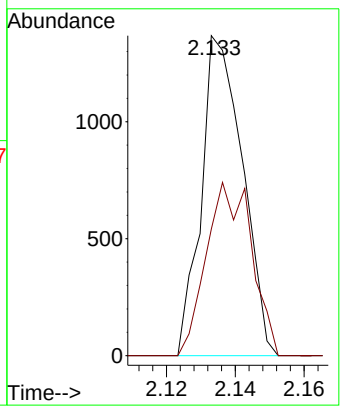


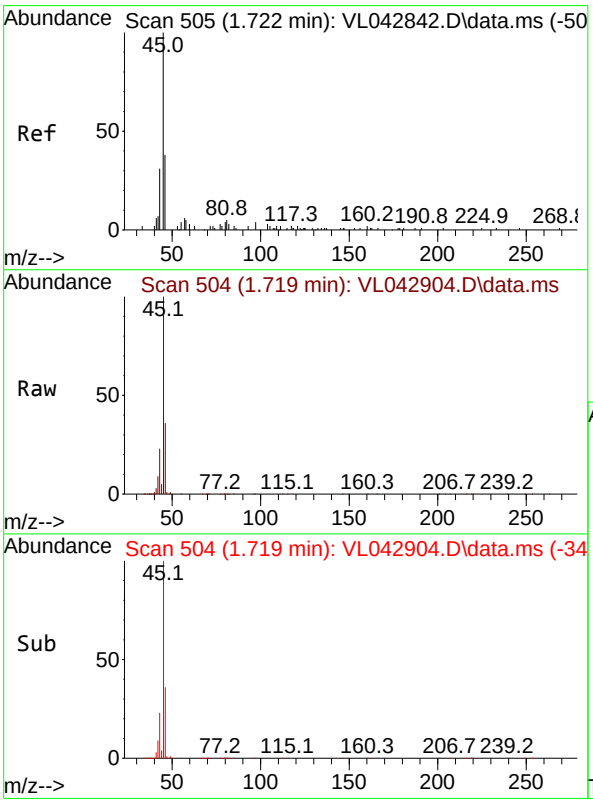
#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.071 ppbv
RT: 2.133 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Instrument :
MSVOA_L
ClientSampleId :
IA-2

Tgt Ion:101 Resp: 1137

Ion	Ratio	Lower	Upper
101	100		
151	59.5	56.4	84.6

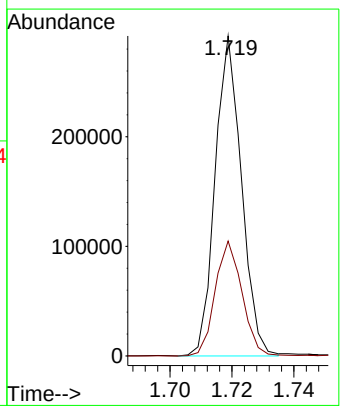


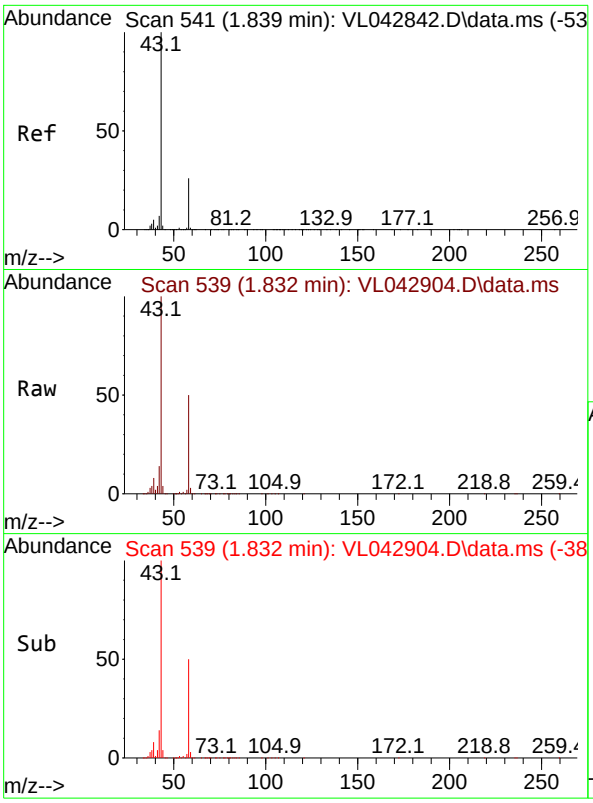


#13
Ethanol
Concen: 194.899 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion: 45 Resp: 172209

Ion	Ratio	Lower	Upper
45	100		
46	37.3	17.5	69.9



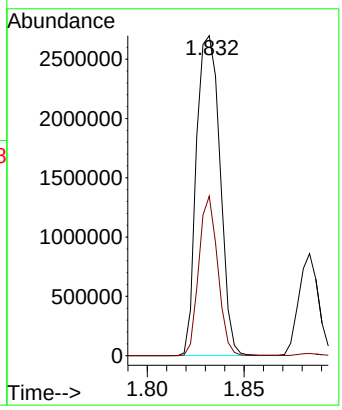


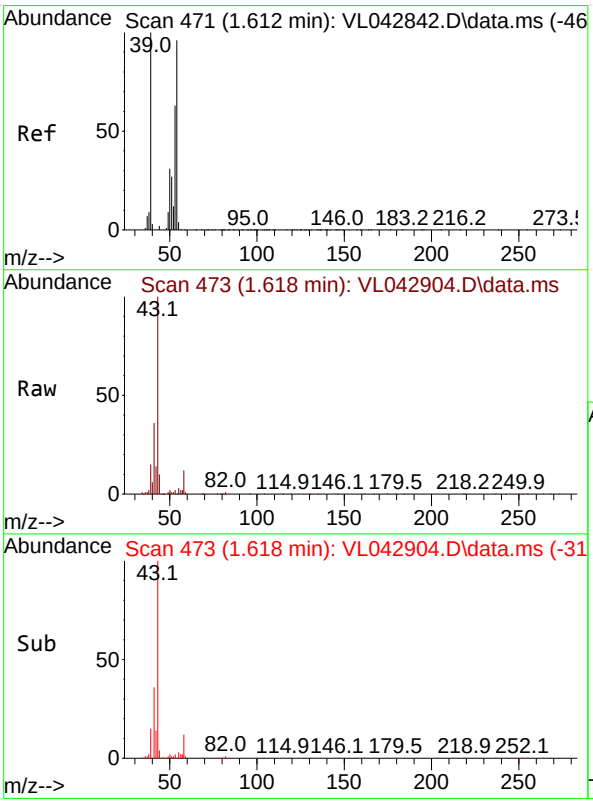
#15
Acetone
Concen: 125.100 ppbv
RT: 1.832 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Instrument :
MSVOA_L
ClientSampleId :
IA-2

Tgt Ion: 43 Resp: 2285778

Ion	Ratio	Lower	Upper
43	100		
58	40.1	22.4	33.6#

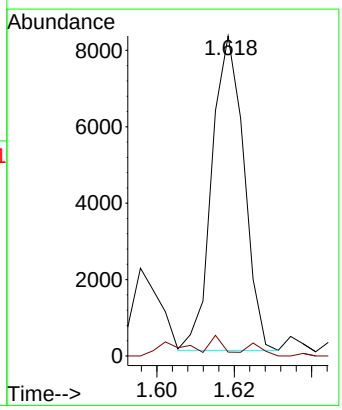


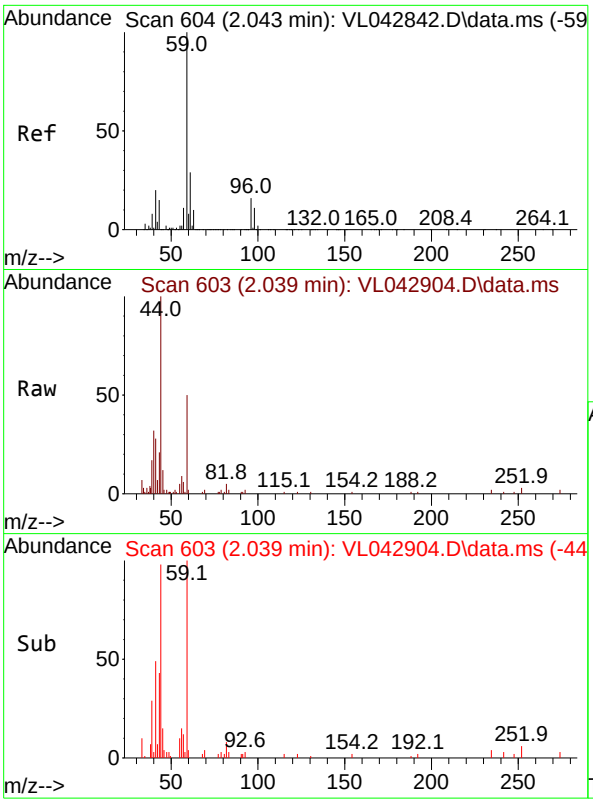


#16
1,3-Butadiene
Concen: 0.570 ppbv
RT: 1.618 min Scan# 473
Delta R.T. 0.016 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion: 39 Resp: 4721

Ion	Ratio	Lower	Upper
39	100		
54	9.7	63.6	95.4#



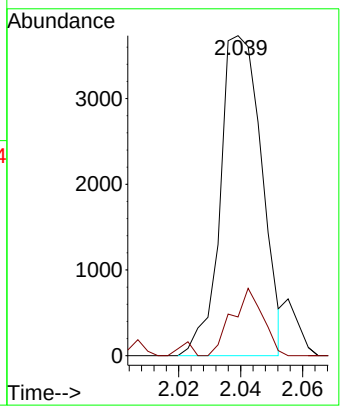


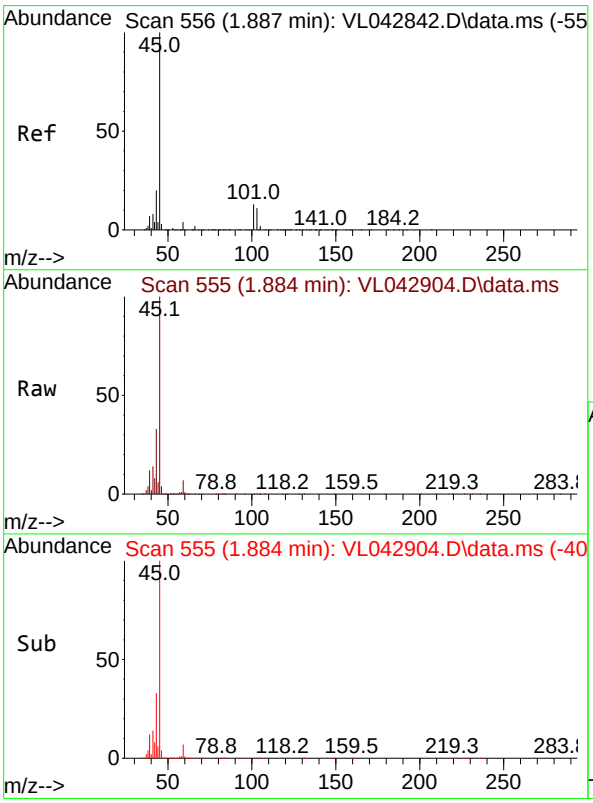
#17
tert-Butyl alcohol
Concen: 0.160 ppbv
RT: 2.039 min Scan# 6
Delta R.T. 0.006 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Instrument :
MSVOA_L
ClientSampleId :
IA-2

Tgt Ion: 59 Resp: 3472

Ion	Ratio	Lower	Upper
59	100		
57	56.6	9.0	13.4#

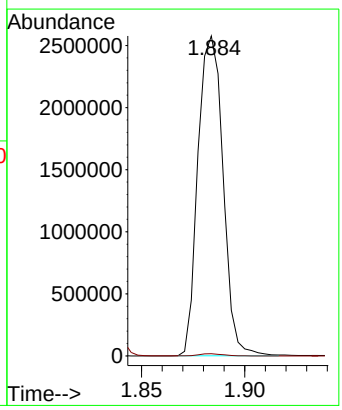


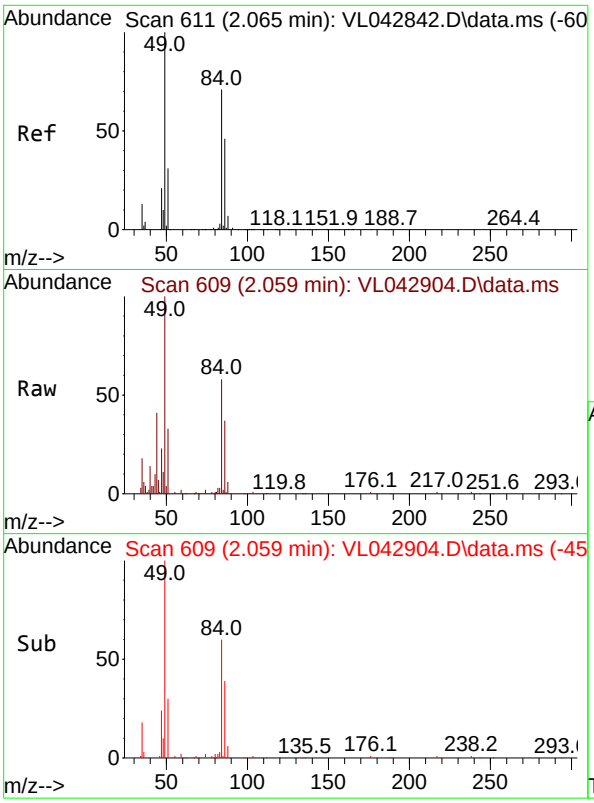


#19
Isopropyl Alcohol
Concen: 199.623 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.003 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion: 45 Resp: 2178522

Ion	Ratio	Lower	Upper
45	100		
58	42.1	32.7	49.1



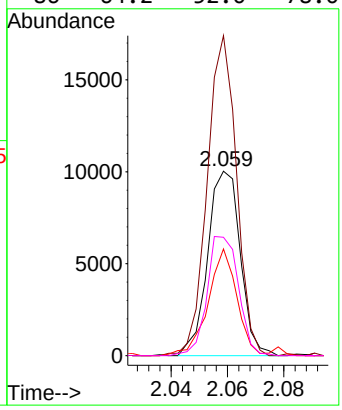


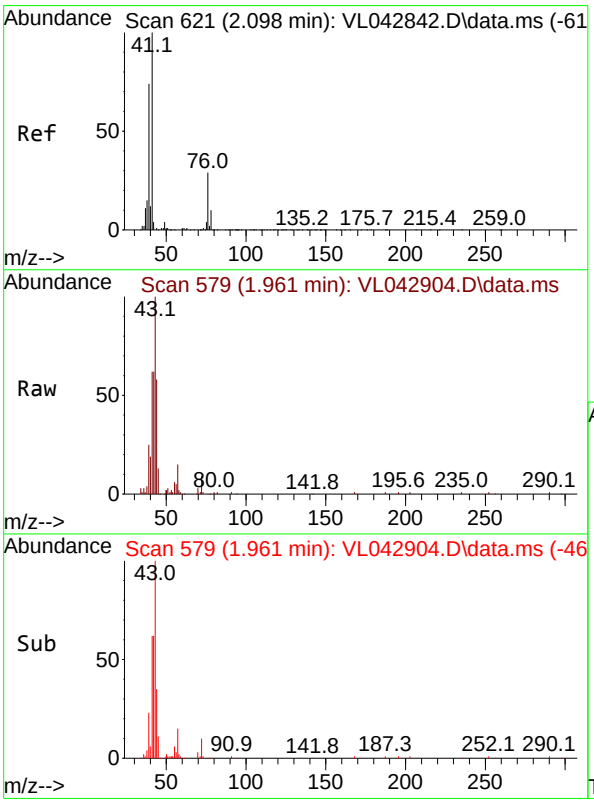
#20
Methylene Chloride
Concen: 1.056 ppbv
RT: 2.059 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Instrument :
MSVOA_L
ClientSampleId :
IA-2

Tgt Ion: 84 Resp: 8085

Ion	Ratio	Lower	Upper
84	100		
49	173.4	112.3	168.5#
51	55.0	36.0	54.0#
86	64.2	52.0	78.0

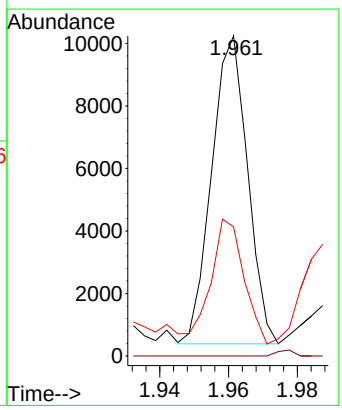


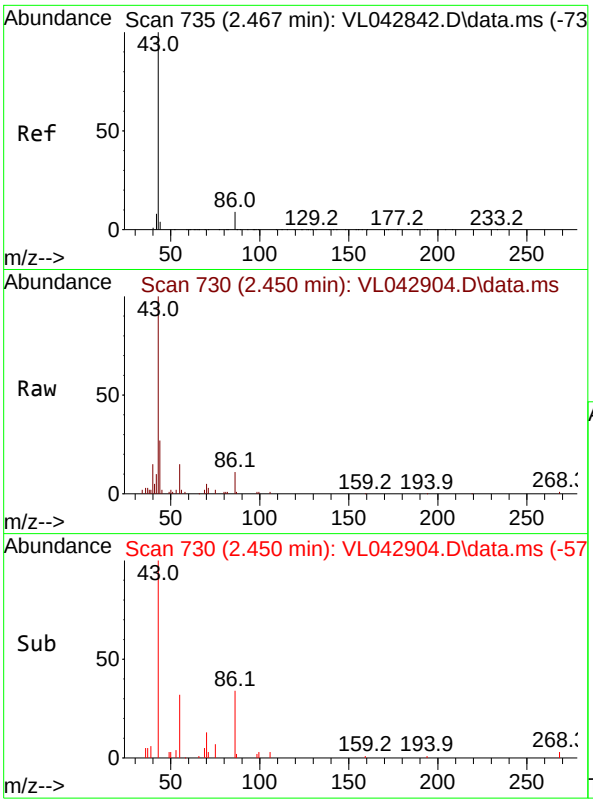


#21
Allyl Chloride
Concen: 0.553 ppbv
RT: 1.961 min Scan# 579
Delta R.T. -0.127 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion: 41 Resp: 7143

Ion	Ratio	Lower	Upper
41	100		
76	1.4	23.9	35.9#
39	0.0	57.8	86.6#



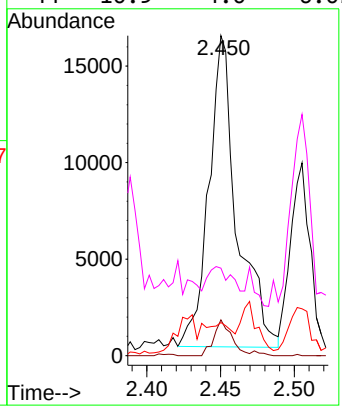


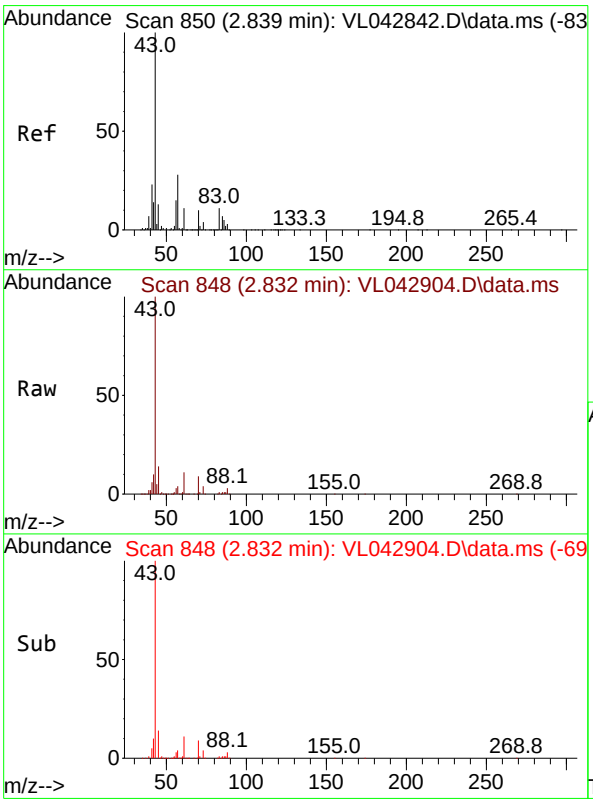
#23
Vinyl Acetate
Concen: 0.853 ppbv
RT: 2.450 min Scan# 7
Delta R.T. -0.004 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Instrument :
MSVOA_L
ClientSampleId :
IA-2

Tgt Ion: 43 Resp: 21424

Ion	Ratio	Lower	Upper
43	100		
86	11.5	6.6	9.8#
42	8.7	7.0	10.6
44	10.9	4.0	6.0#

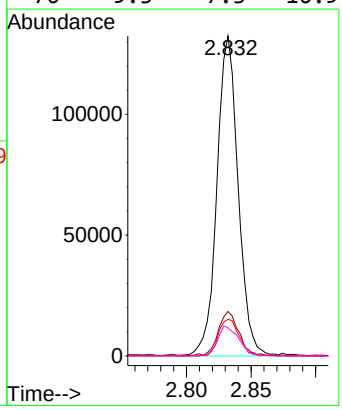


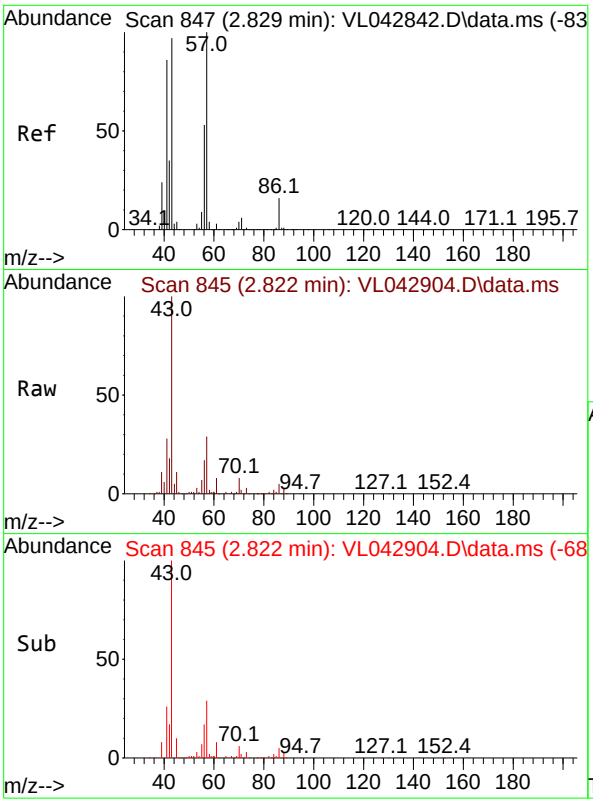


#25
Ethyl Acetate
Concen: 3.427 ppbv
RT: 2.832 min Scan# 848
Delta R.T. 0.006 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion: 43 Resp: 151536

Ion	Ratio	Lower	Upper
43	100		
45	13.9	8.1	12.1#
61	11.3	7.4	11.2#
70	9.3	7.3	10.9



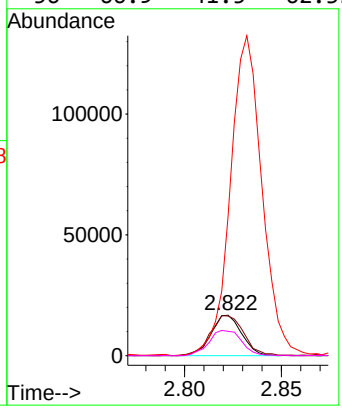


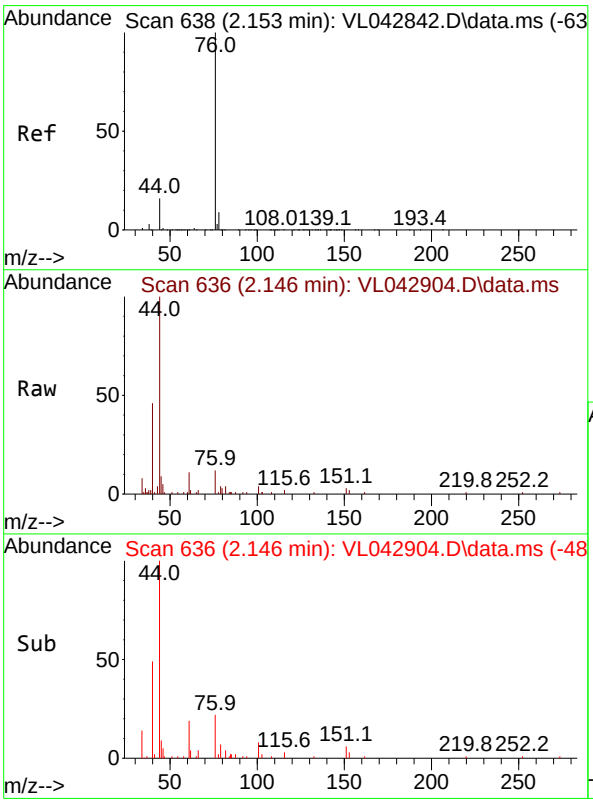
#26
Hexane
Concen: 0.901 ppbv
RT: 2.822 min Scan# 84
Delta R.T. 0.006 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Instrument :
MSVOA_L
ClientSampleId :
IA-2

Tgt Ion: 57 Resp: 18399

Ion	Ratio	Lower	Upper
57	100		
41	110.0	68.6	103.0#
43	828.5	168.5	252.7#
56	66.9	41.5	62.3#

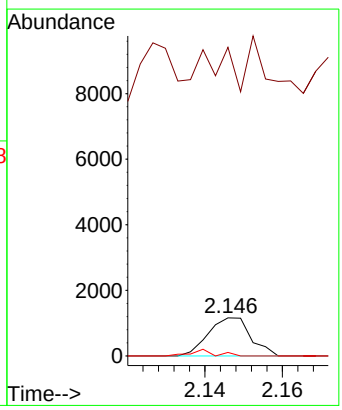


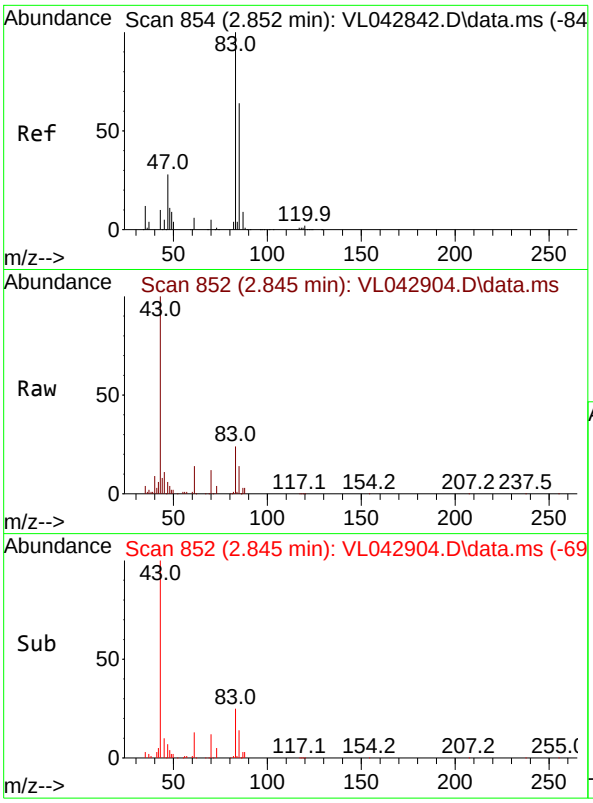


#27
Carbon Disulfide
Concen: 0.045 ppbv
RT: 2.146 min Scan# 636
Delta R.T. 0.003 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion: 76 Resp: 887

Ion	Ratio	Lower	Upper
76	100		
44	0.0	15.9	23.9#
78	9.4	9.5	14.3#



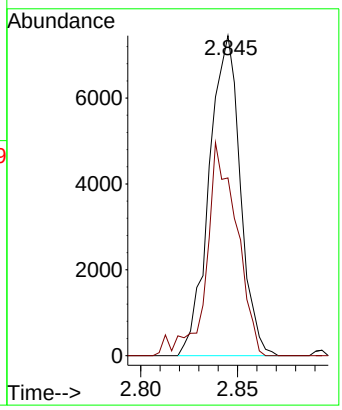


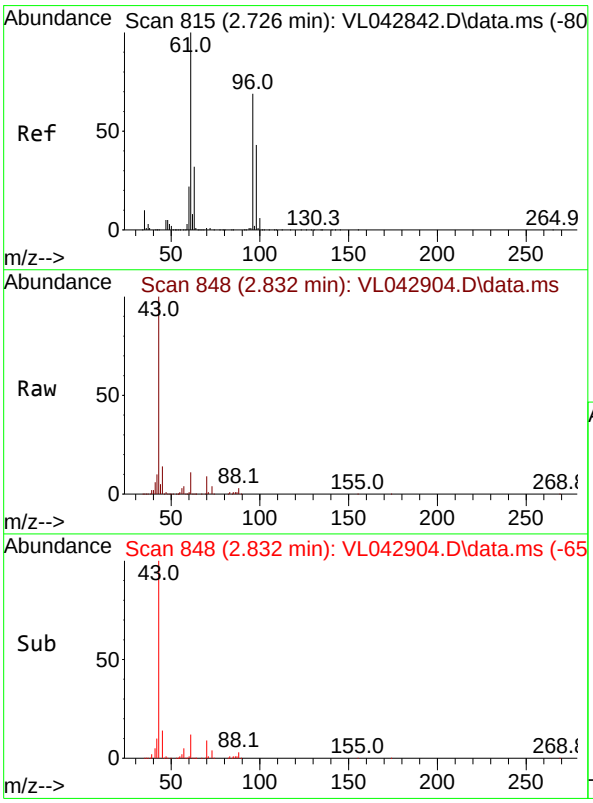
#29
Chloroform
Concen: 0.285 ppbv
RT: 2.845 min Scan# 8
Delta R.T. 0.006 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Instrument :
MSVOA_L
ClientSampleId :
IA-2

Tgt Ion: 83 Resp: 8304

Ion	Ratio	Lower	Upper
83	100		
85	55.5	51.1	76.7

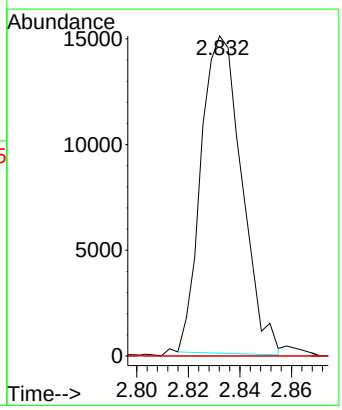


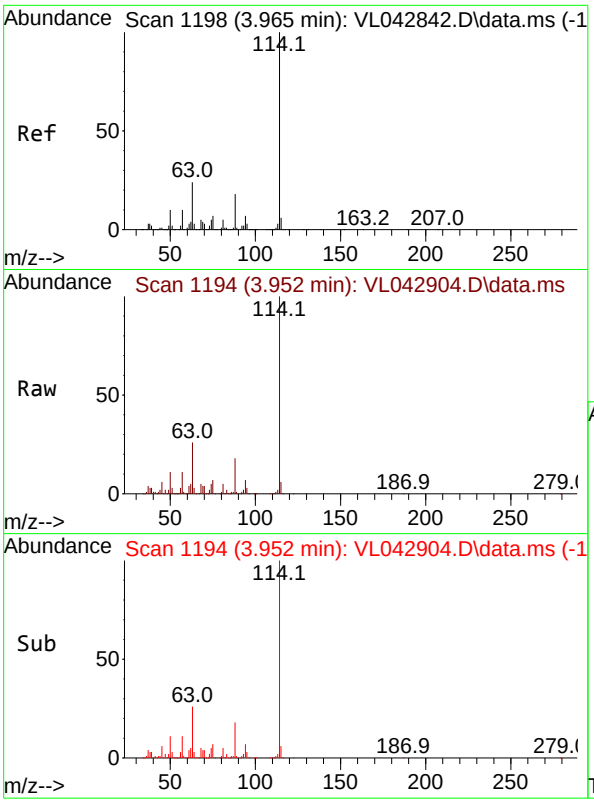


#31
cis-1,2-Dichloroethene
Concen: 0.806 ppbv
RT: 2.832 min Scan# 848
Delta R.T. 0.119 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion: 61 Resp: 16434

Ion	Ratio	Lower	Upper
61	100		
96	0.0	55.0	82.6#
98	0.0	34.3	51.5#



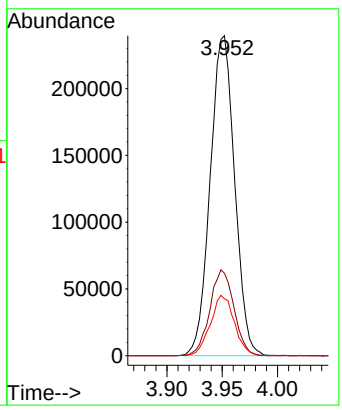


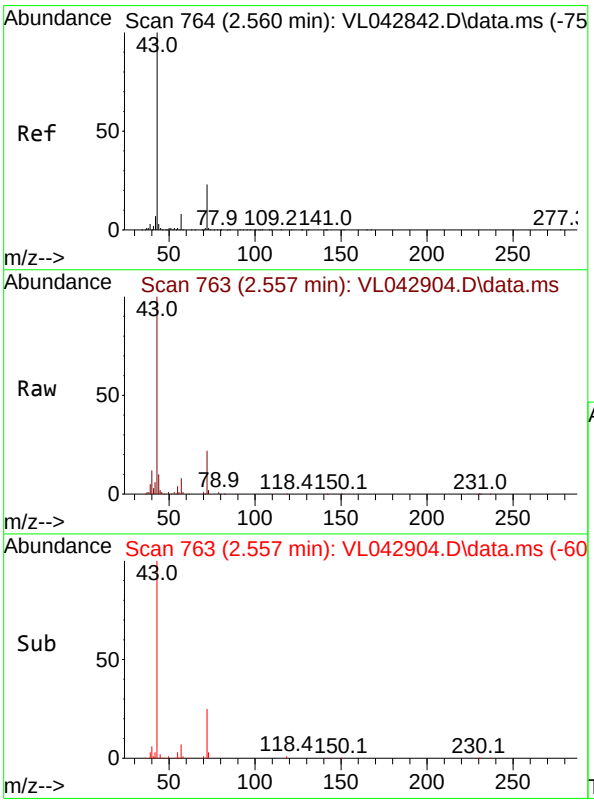
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1
Delta R.T. 0.009 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Instrument :
MSVOA_L
ClientSampleId :
IA-2

Tgt Ion:114 Resp: 368558

Ion	Ratio	Lower	Upper
114	100		
63	26.4	19.7	29.5
88	18.5	14.4	21.6

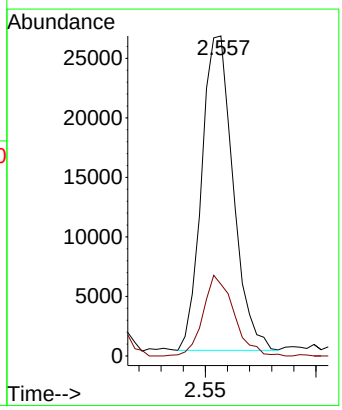


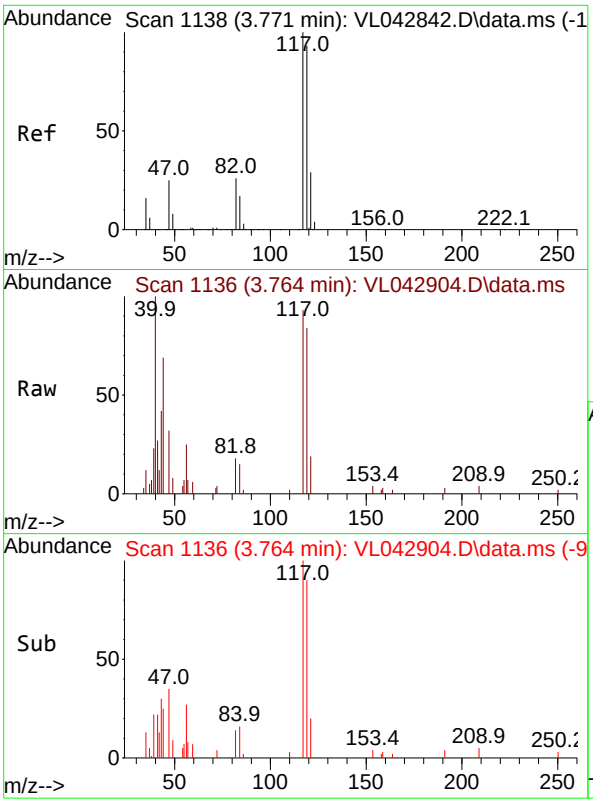


#34
2-Butanone
Concen: 1.048 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.009 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion: 43 Resp: 26086

Ion	Ratio	Lower	Upper
43	100		
72	25.2	18.6	28.0



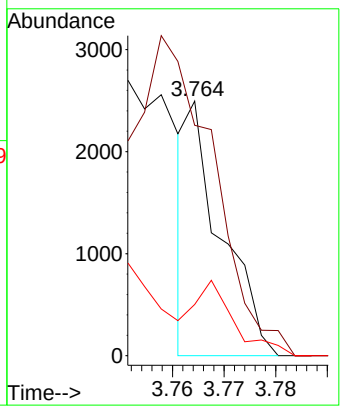


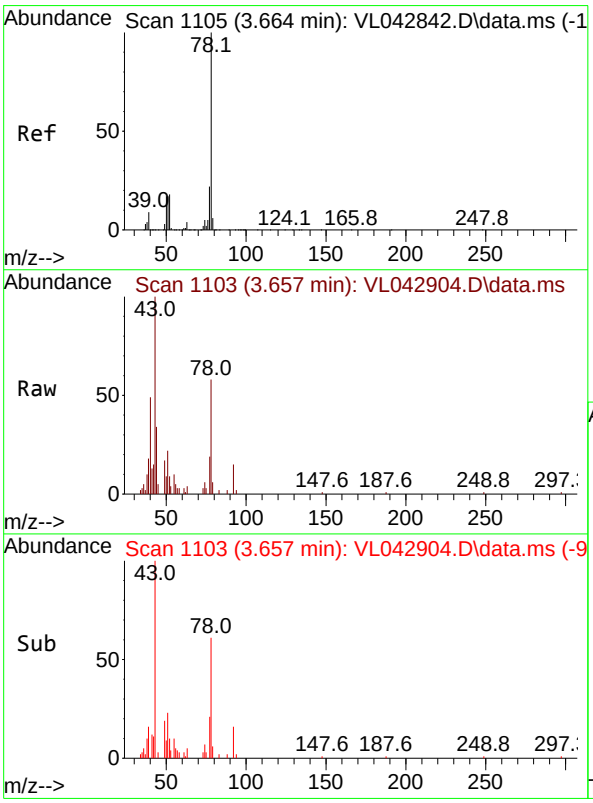
#35
Carbon Tetrachloride
Concen: 0.045 ppbv
RT: 3.764 min Scan# 1
Delta R.T. 0.016 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Instrument :
MSVOA_L
ClientSampleId :
IA-2

Tgt Ion:117 Resp: 1143

Ion	Ratio	Lower	Upper
117	100		
119	80.6	74.7	112.1
121	16.1	23.2	34.8#

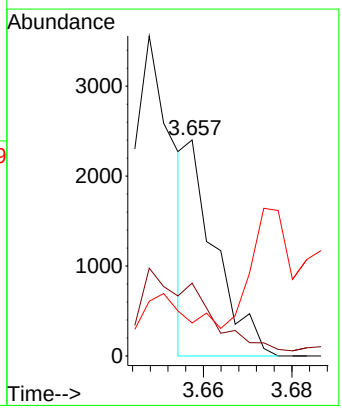


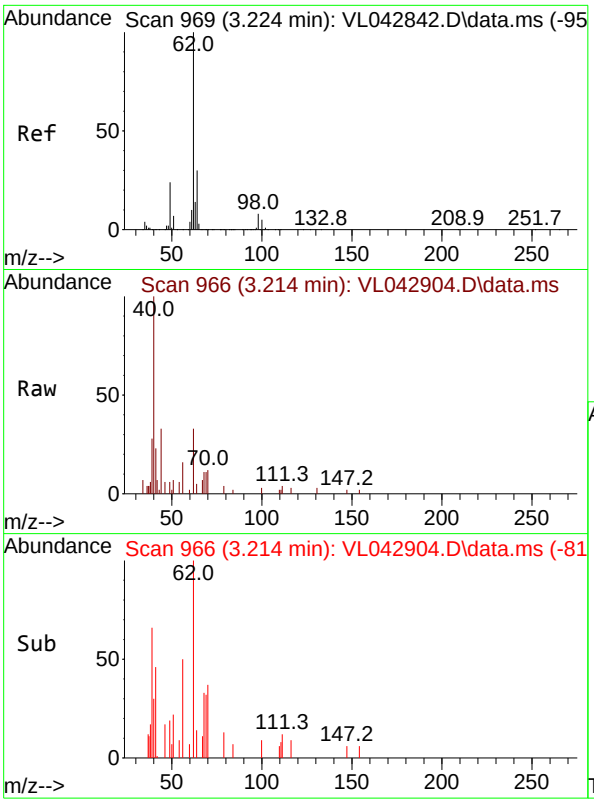


#36
Benzene
Concen: 0.032 ppbv
RT: 3.657 min Scan# 1103
Delta R.T. 0.013 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion: 78 Resp: 1116

Ion	Ratio	Lower	Upper
78	100		
77	30.6	17.7	26.5#
50	0.0	13.9	20.9#



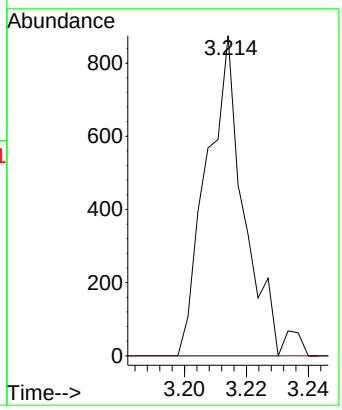


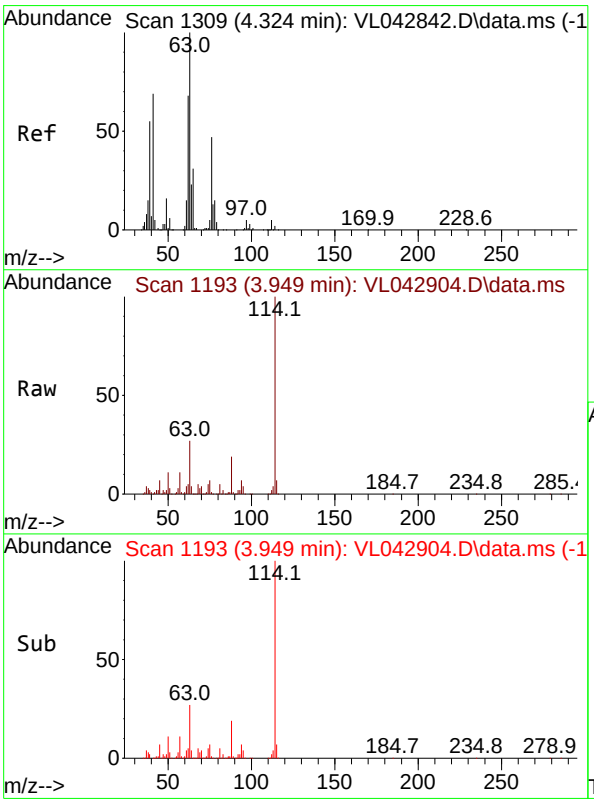
#37
1,2-Dichloroethane
Concen: 0.039 ppbv
RT: 3.214 min Scan# 9
Delta R.T. 0.006 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Instrument :
MSVOA_L
ClientSampleId :
IA-2

Tgt Ion: 62 Resp: 719

Ion	Ratio	Lower	Upper
62	100		
98	0.0	5.9	8.9#

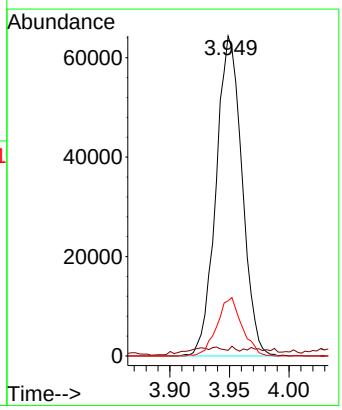


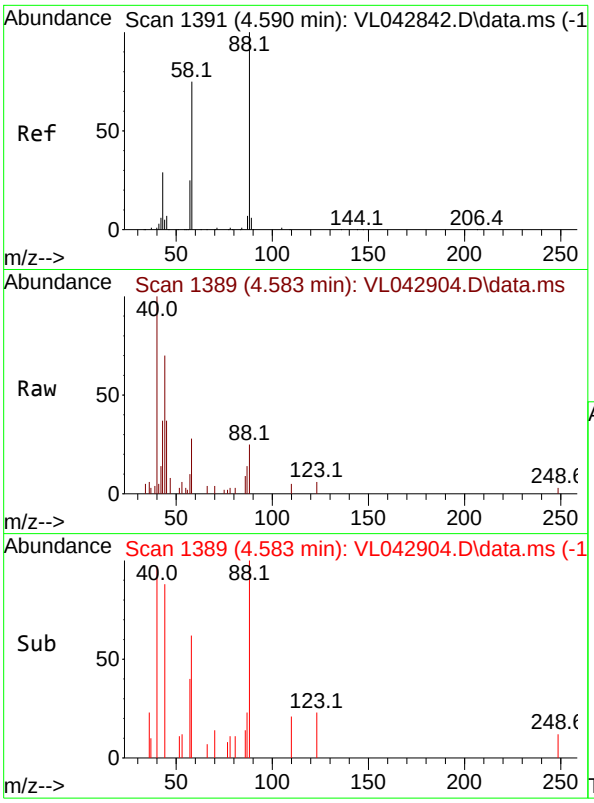


#39
1,2-Dichloropropane
Concen: 7.558 ppbv
RT: 3.949 min Scan# 1193
Delta R.T. -0.350 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion: 63 Resp: 97418

Ion	Ratio	Lower	Upper
63	100		
41	0.7	55.0	82.4#
62	17.3	54.4	81.6#



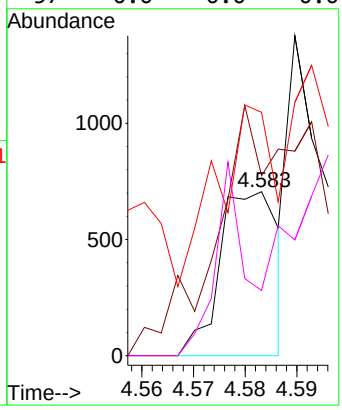


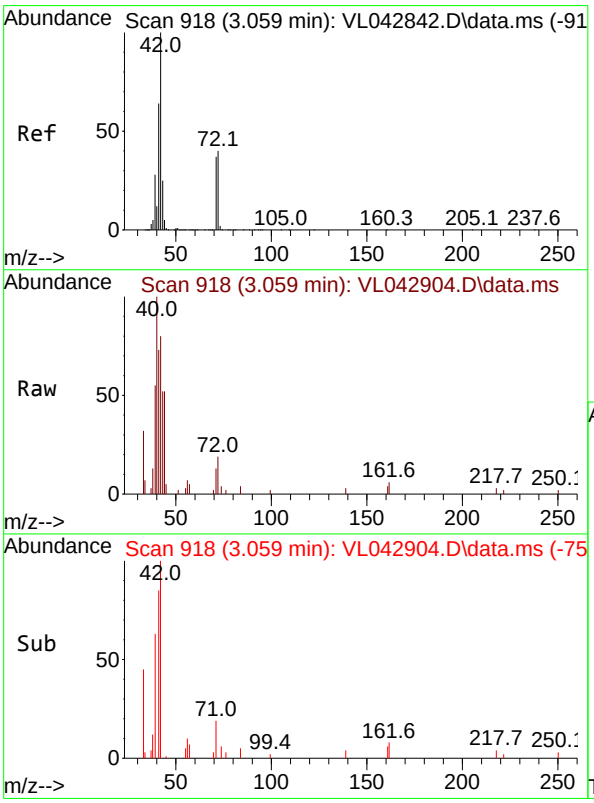
#40
1,4-Dioxane
Concen: 0.091 ppbv
RT: 4.583 min Scan# 1
Delta R.T. 0.022 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Instrument :
MSVOA_L
ClientSampleId :
IA-2

Tgt Ion: 88 Resp: 555

Ion	Ratio	Lower	Upper
88	100		
58	517.1	53.8	80.6#
43	53.0	22.8	34.2#
57	0.0	0.0	0.0

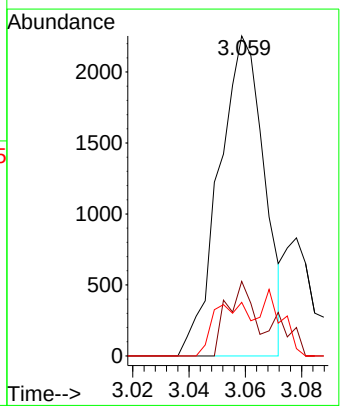


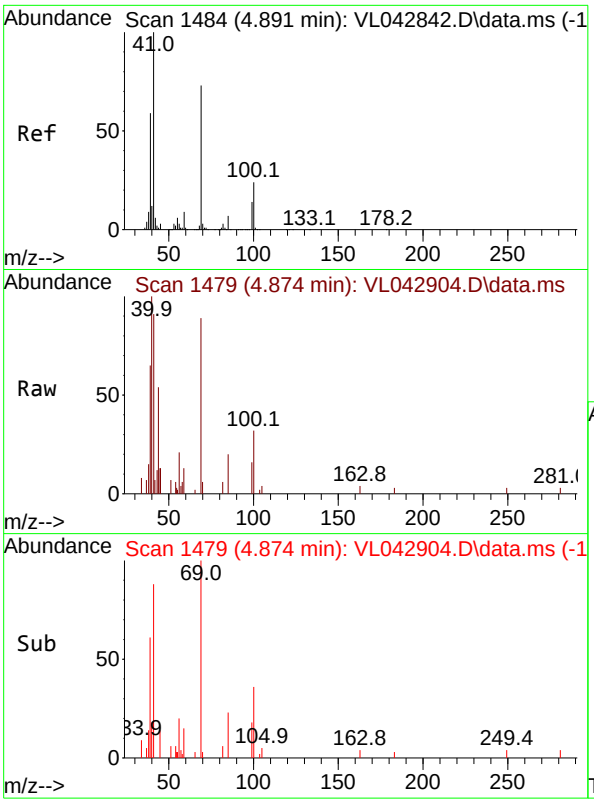


#41
Tetrahydrofuran
Concen: 0.181 ppbv
RT: 3.059 min Scan# 918
Delta R.T. 0.016 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion: 42 Resp: 2514

Ion	Ratio	Lower	Upper
42	100		
72	19.8	32.6	48.8#
71	0.0	30.0	45.0#



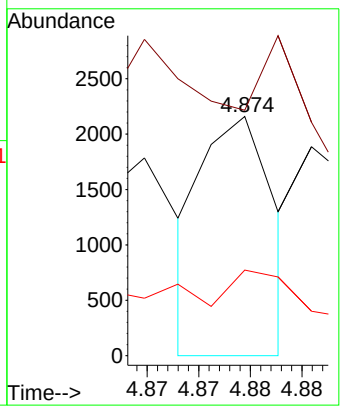


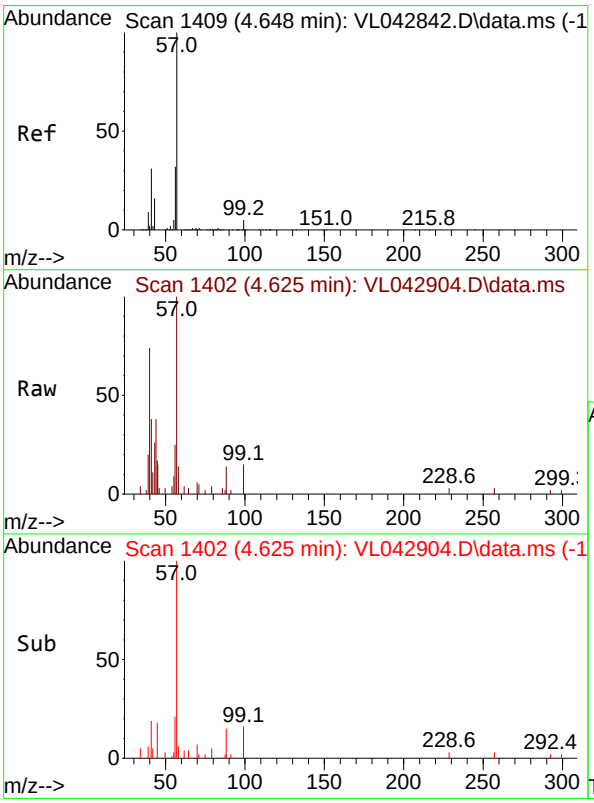
#43
Methyl Methacrylate
Concen: 0.072 ppbv
RT: 4.874 min Scan# 14
Delta R.T. 0.016 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Instrument :
MSVOA_L
ClientSampleId :
IA-2

Tgt Ion: 69 Resp: 1043

Ion	Ratio	Lower	Upper
69	100		
41	0.0	114.6	172.0#
100	123.6	30.2	45.4#

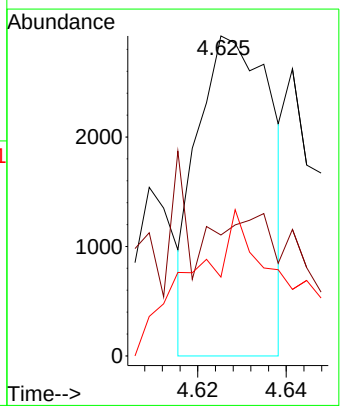


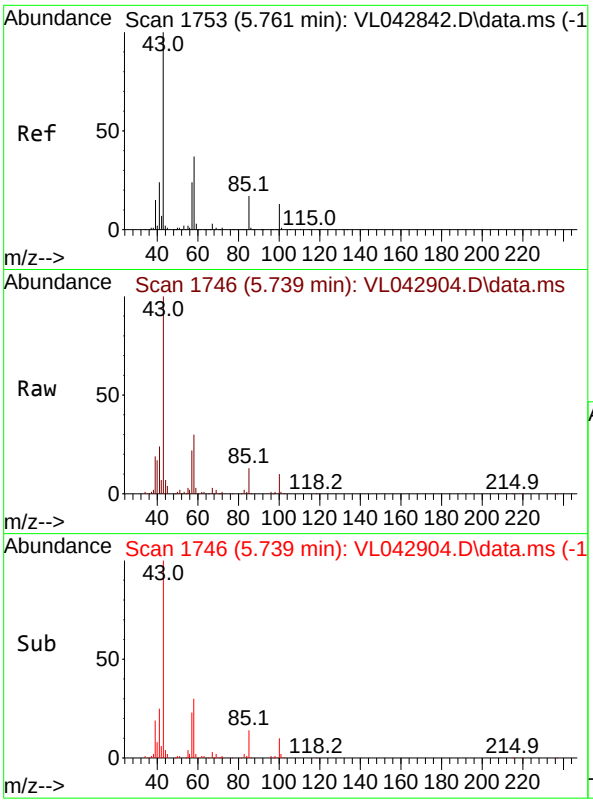


#44
2,2,4-Trimethylpentane
Concen: 0.056 ppbv
RT: 4.625 min Scan# 1402
Delta R.T. 0.003 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion: 57 Resp: 3374

Ion	Ratio	Lower	Upper
57	100		
41	0.0	24.8	37.2#
56	87.1	25.5	38.3#



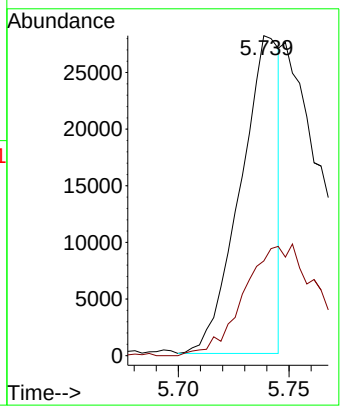


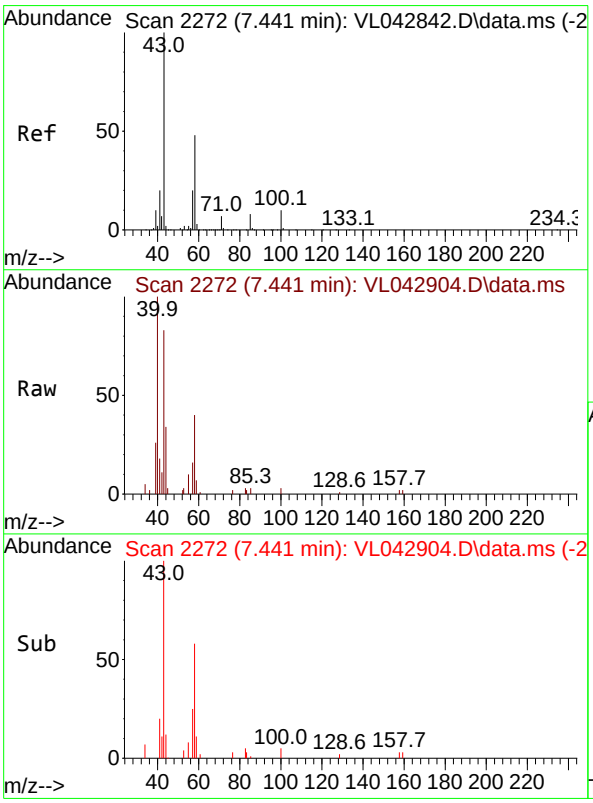
#50
4-Methyl-2-Pentanone
Concen: 1.017 ppbv
RT: 5.739 min Scan# 1
Delta R.T. 0.009 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Instrument :
MSVOA_L
ClientSampleId :
IA-2

Tgt Ion: 43 Resp: 34197

Ion	Ratio	Lower	Upper
43	100		
58	0.0	29.8	44.8#

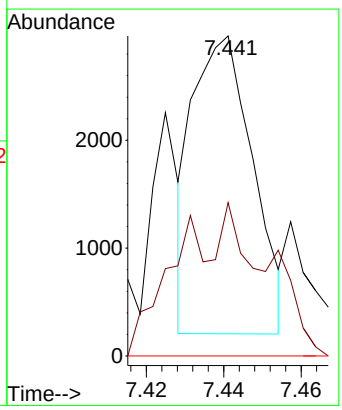


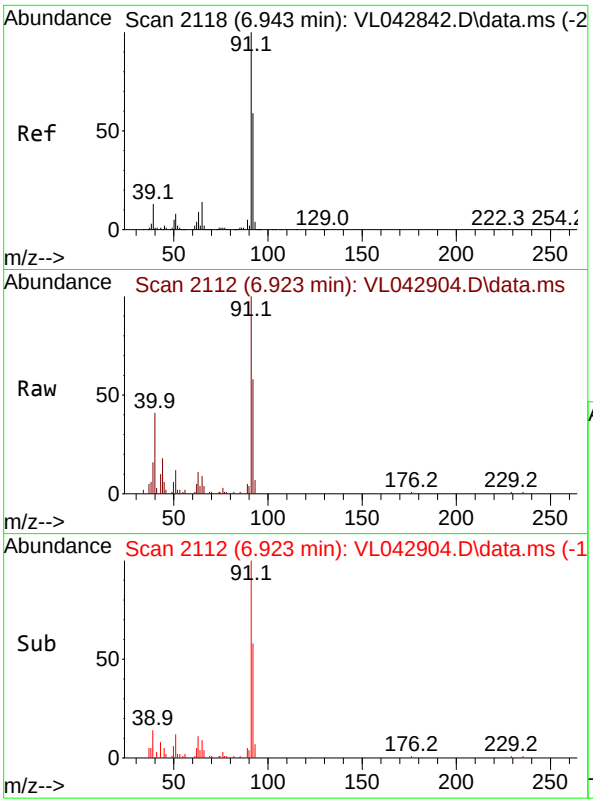


#51
2-Hexanone
Concen: 0.113 ppbv
RT: 7.441 min Scan# 2272
Delta R.T. 0.022 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion: 43 Resp: 2979

Ion	Ratio	Lower	Upper
43	100		
58	82.6	41.0	61.6#
98	0.0	0.1	0.1#



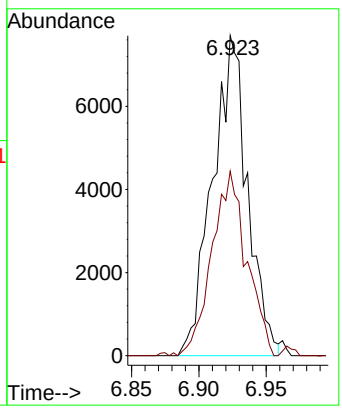


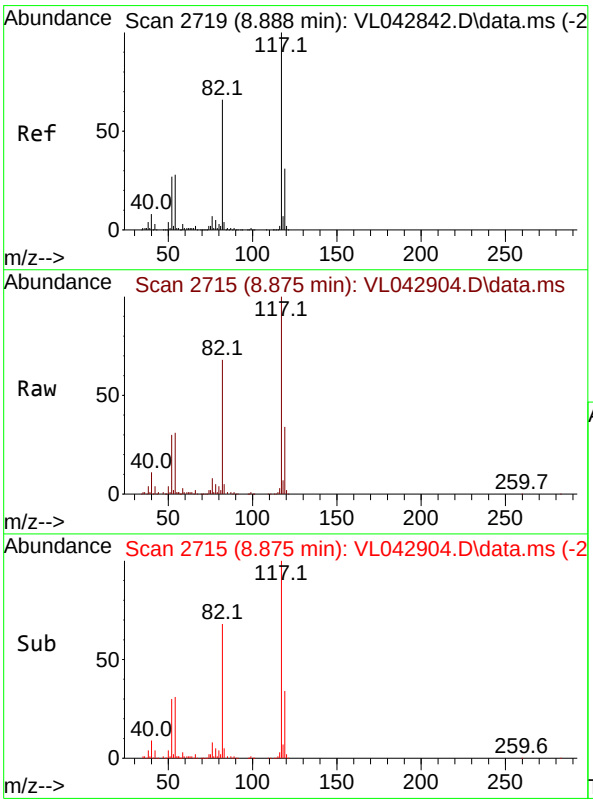
#53
Toluene
Concen: 0.331 ppbv
RT: 6.923 min Scan# 2
Delta R.T. 0.009 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Instrument :
MSVOA_L
ClientSampleId :
IA-2

Tgt Ion: 91 Resp: 13909

Ion	Ratio	Lower	Upper
91	100		
92	58.3	47.8	71.6

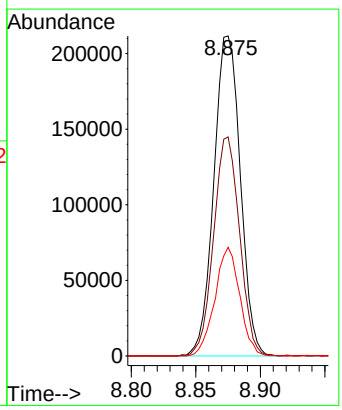


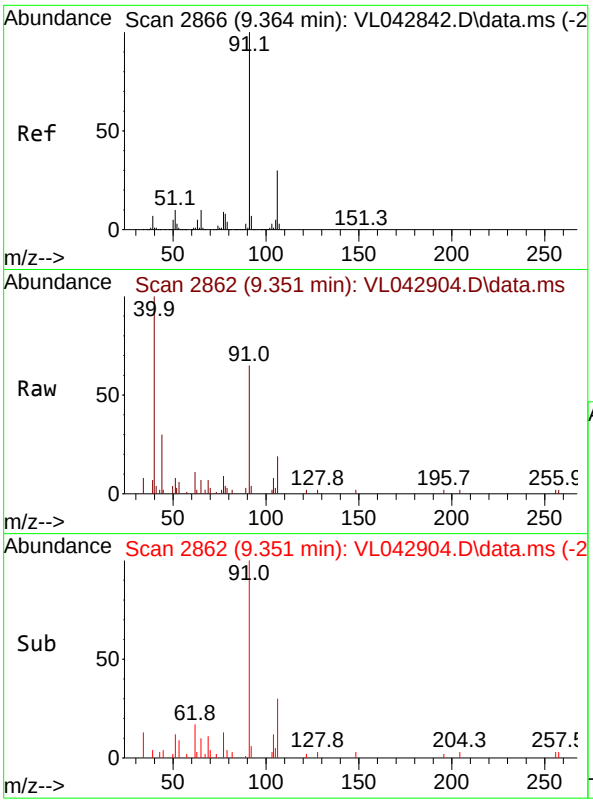


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. 0.006 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion:117 Resp: 302216

Ion	Ratio	Lower	Upper
117	100		
82	67.0	54.6	81.8
119	32.0	25.9	38.9



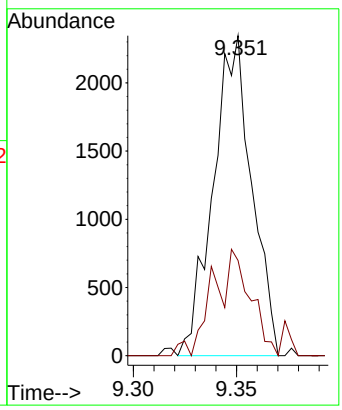


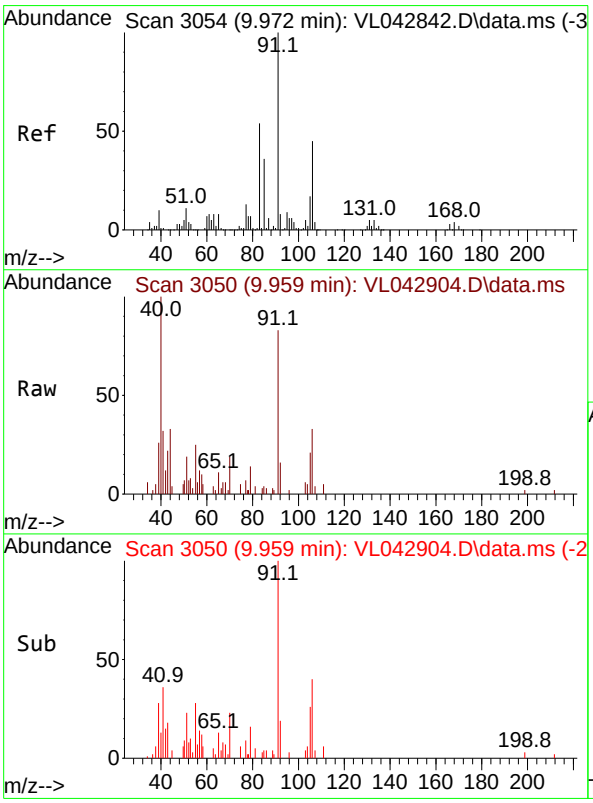
#58
Ethyl Benzene
Concen: 0.057 ppbv
RT: 9.351 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Instrument :
MSVOA_L
ClientSampleId :
IA-2

Tgt Ion: 91 Resp: 3051

Ion	Ratio	Lower	Upper
91	100		
106	29.8	23.9	35.9

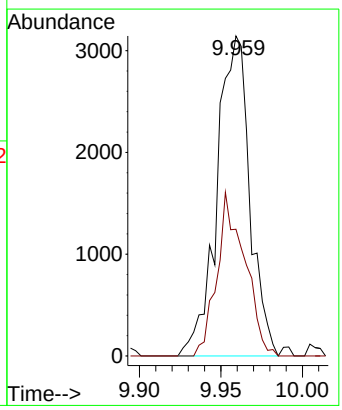


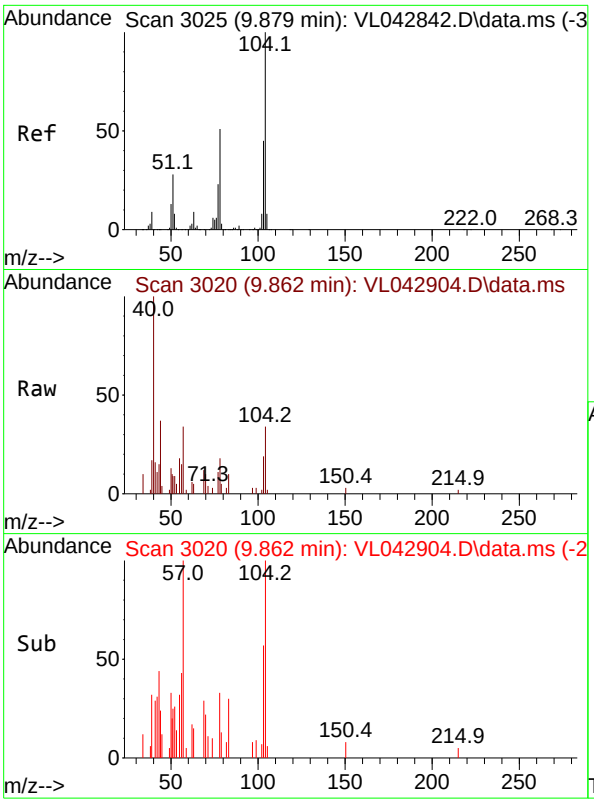


#60
o-Xylene
Concen: 0.105 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. 0.006 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion: 91 Resp: 4398

Ion	Ratio	Lower	Upper
91	100		
106	43.3	21.8	65.4



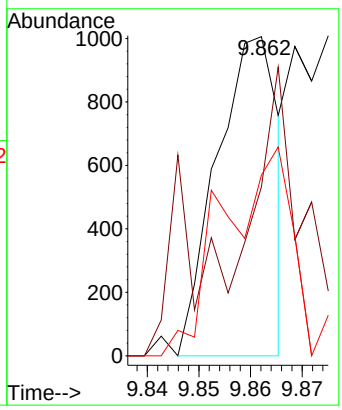


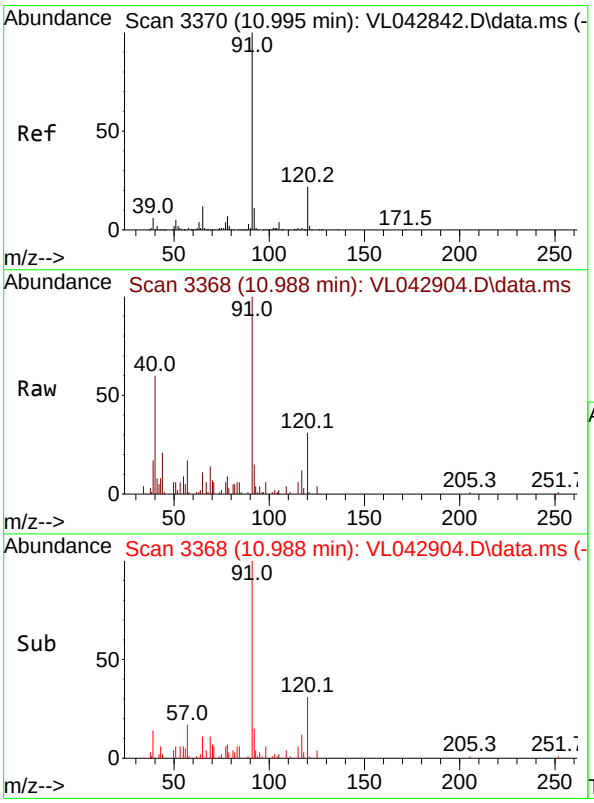
#61
Styrene
Concen: 0.042 ppbv
RT: 9.862 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Instrument :
MSVOA_L
ClientSampleId :
IA-2

Tgt Ion:104 Resp: 831

Ion	Ratio	Lower	Upper
104	100		
78	114.0	40.6	61.0#
103	81.3	37.7	56.5#

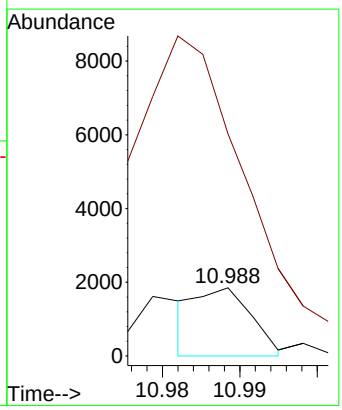


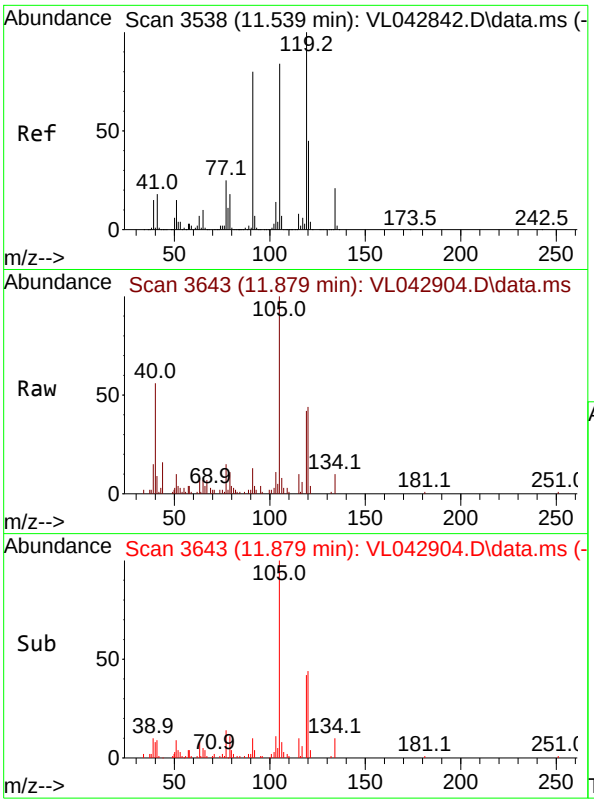


#64
n-propylbenzene
Concen: 0.058 ppbv
RT: 10.988 min Scan# 3368
Delta R.T. 0.009 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion:120 Resp: 910

Ion	Ratio	Lower	Upper
120	100		
91	0.0	375.8	563.6#



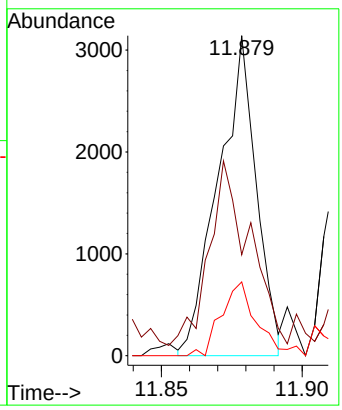


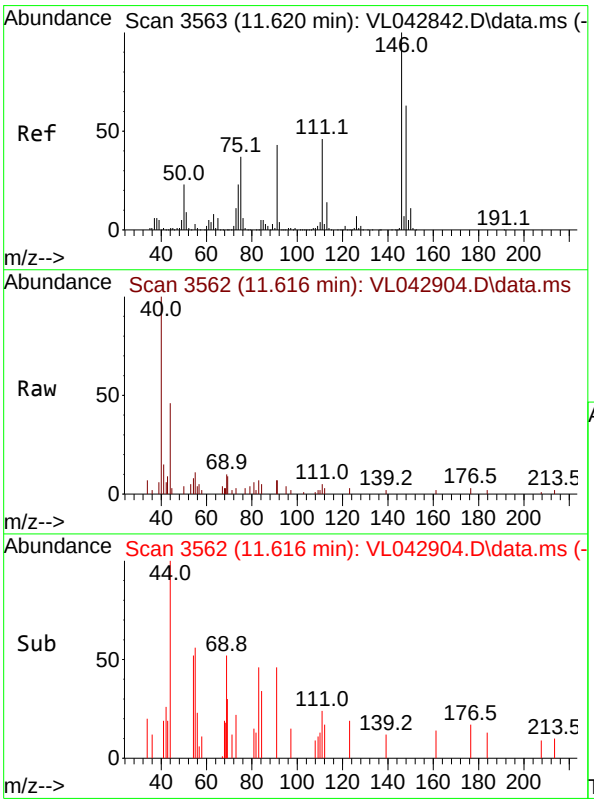
#65
tert-Butylbenzene
Concen: 0.054 ppbv
RT: 11.879 min Scan# 3
Delta R.T. 0.356 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Instrument :
MSVOA_L
ClientSampleId :
IA-2

Tgt Ion:119 Resp: 2940

Ion	Ratio	Lower	Upper
119	100		
91	71.4	63.9	95.9
134	21.1	17.0	25.4

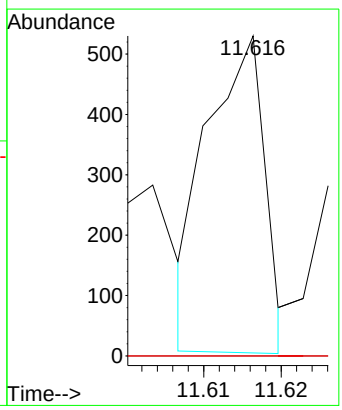


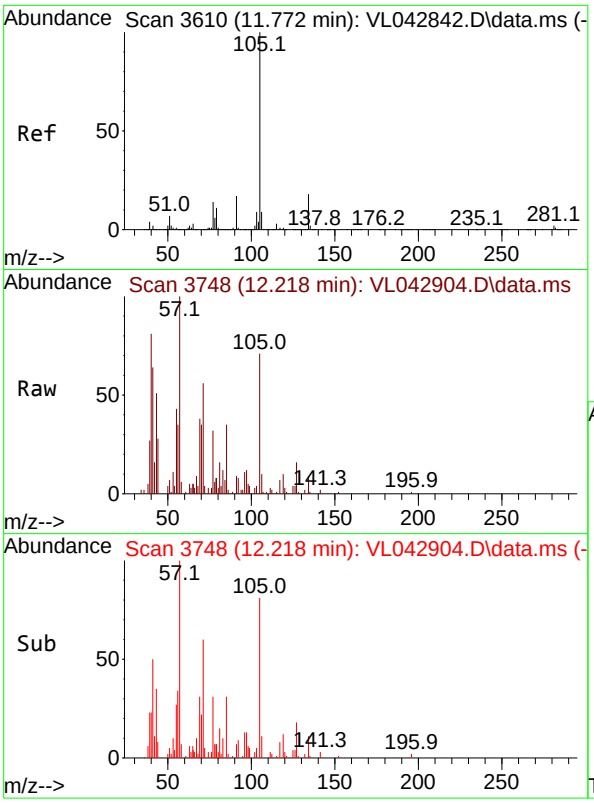


#66
Benzyl Chloride
Concen: 0.039 ppbv
RT: 11.616 min Scan# 3562
Delta R.T. 0.009 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion: 91 Resp: 271

Ion	Ratio	Lower	Upper
91	100		
126	0.0	14.2	21.4#
128	0.0	5.0	7.6#



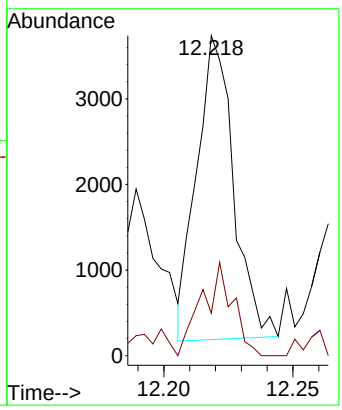


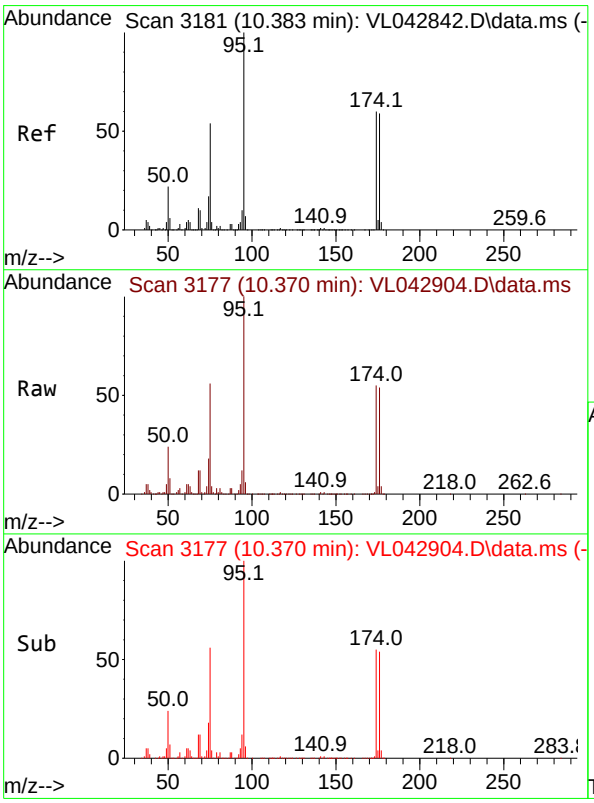
#67
sec-Butylbenzene
Concen: 0.046 ppbv
RT: 12.218 min Scan# 3
Delta R.T. 0.459 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Instrument :
MSVOA_L
ClientSampleId :
IA-2

Tgt Ion:105 Resp: 3516

Ion	Ratio	Lower	Upper
105	100		
134	19.7	14.9	22.3

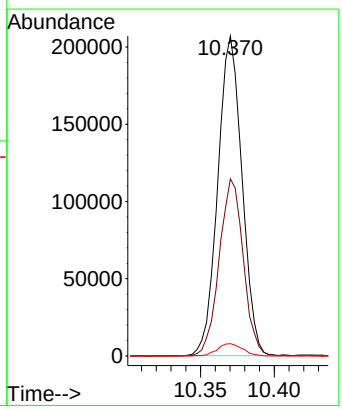


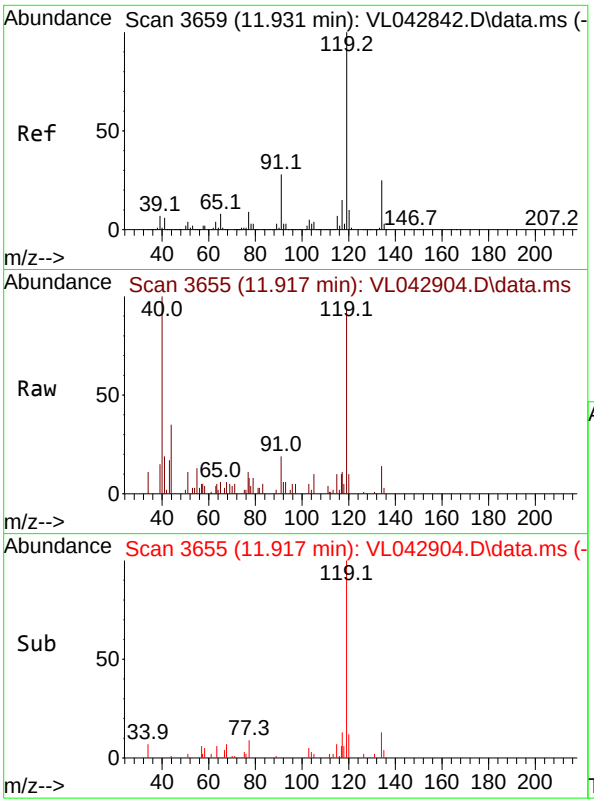


#68
1-Bromo-4-Fluorobenzene
Concen: 10.432 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. 0.006 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion: 95 Resp: 236452

Ion	Ratio	Lower	Upper
95	100		
174	55.3	48.4	72.6
175	4.0	3.8	5.8



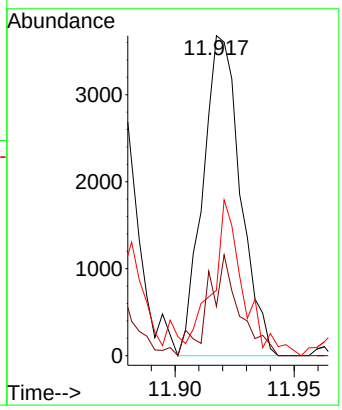


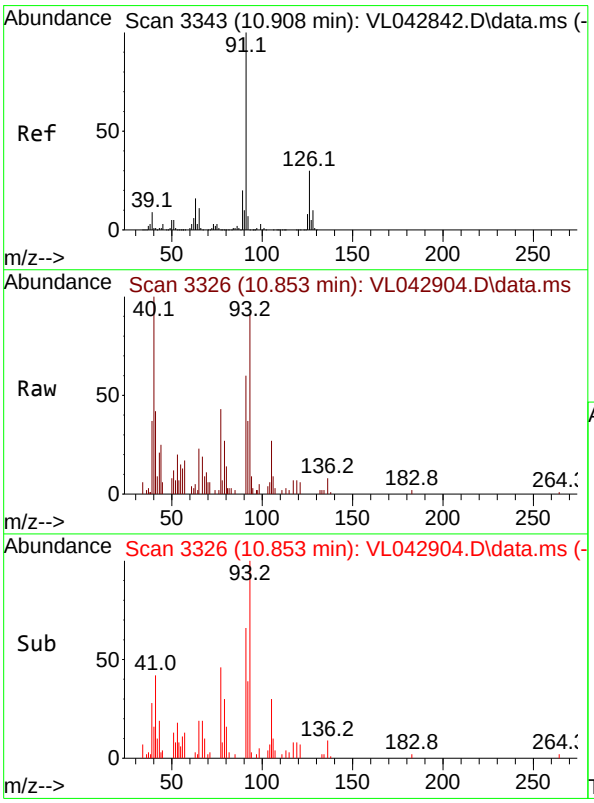
#69
p-Isopropyltoluene
Concen: 0.062 ppbv
RT: 11.917 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Instrument :
MSVOA_L
ClientSampleId :
IA-2

Tgt Ion:119 Resp: 4040

Ion	Ratio	Lower	Upper
119	100		
134	26.4	20.6	30.8
91	43.3	22.6	34.0#

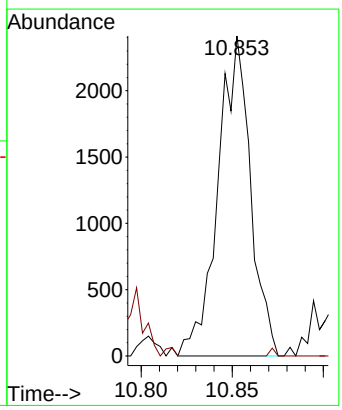


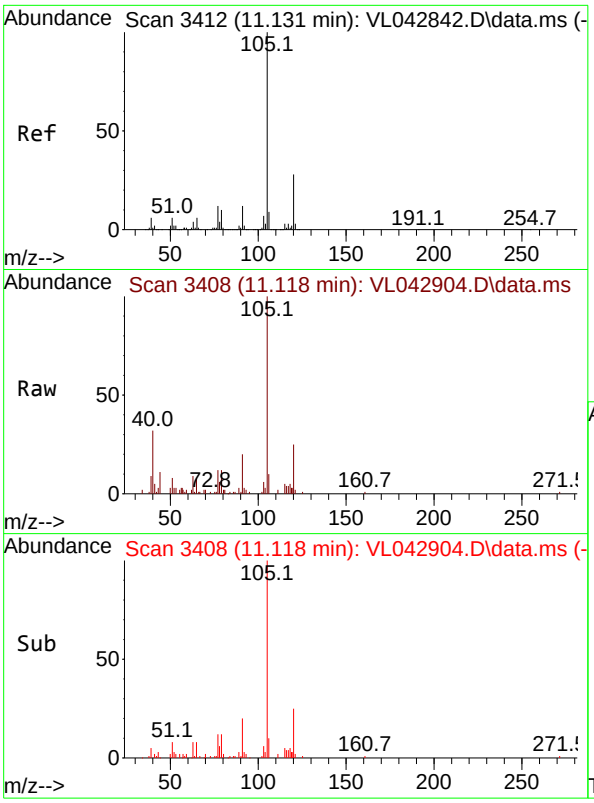


#71
2-Chlorotoluene
Concen: 0.063 ppbv
RT: 10.853 min Scan# 3326
Delta R.T. -0.039 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion: 91 Resp: 2992

Ion	Ratio	Lower	Upper
91	100		
126	15.2	12.0	47.8



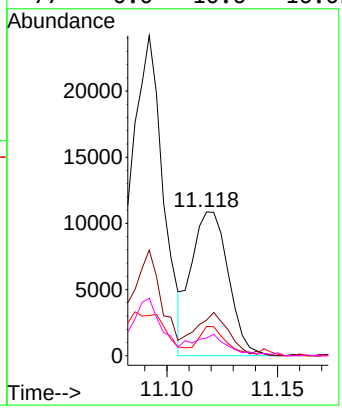


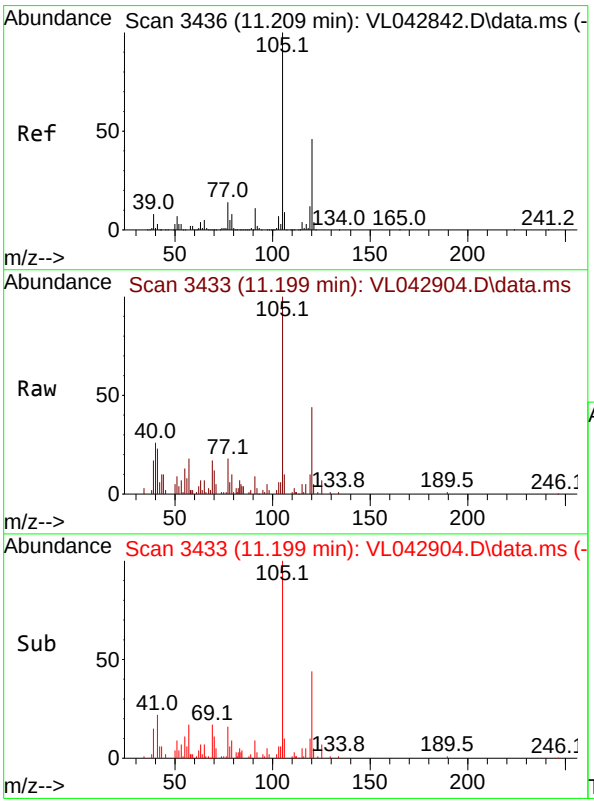
#72
4-Ethyltoluene
Concen: 0.249 ppbv
RT: 11.118 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Instrument :
MSVOA_L
ClientSampleId :
IA-2

Tgt Ion:105 Resp: 12697

Ion	Ratio	Lower	Upper
105	100		
120	0.0	23.4	35.2#
91	14.1	9.8	14.6
77	0.0	10.6	16.0#

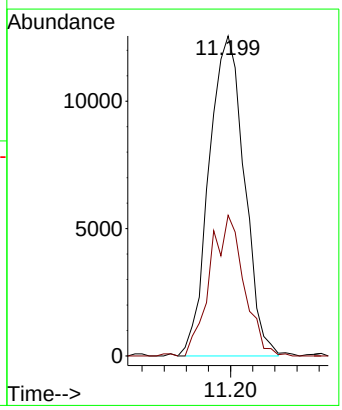


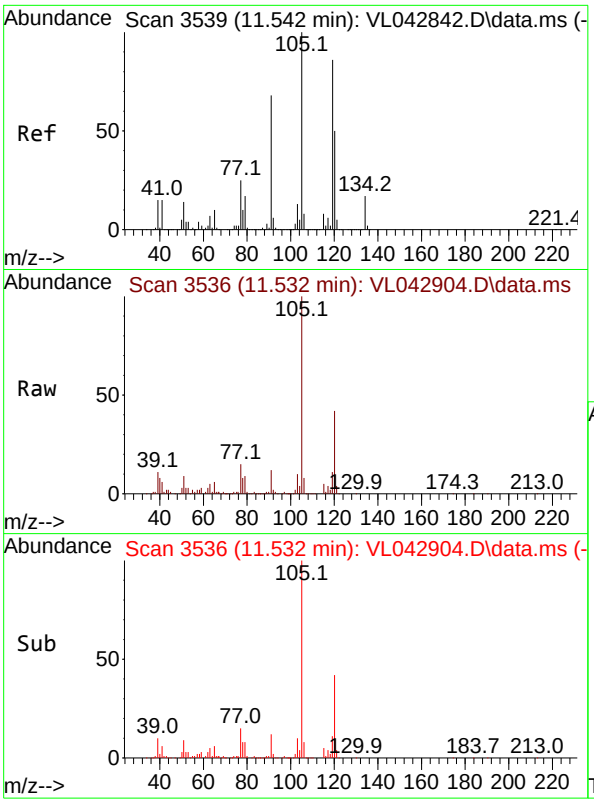


#73
1,3,5-Trimethylbenzene
Concen: 0.320 ppbv
RT: 11.199 min Scan# 3433
Delta R.T. 0.003 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion:105 Resp: 13893

Ion	Ratio	Lower	Upper
105	100		
120	44.0	36.6	54.8



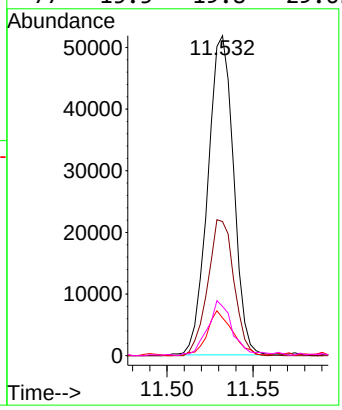


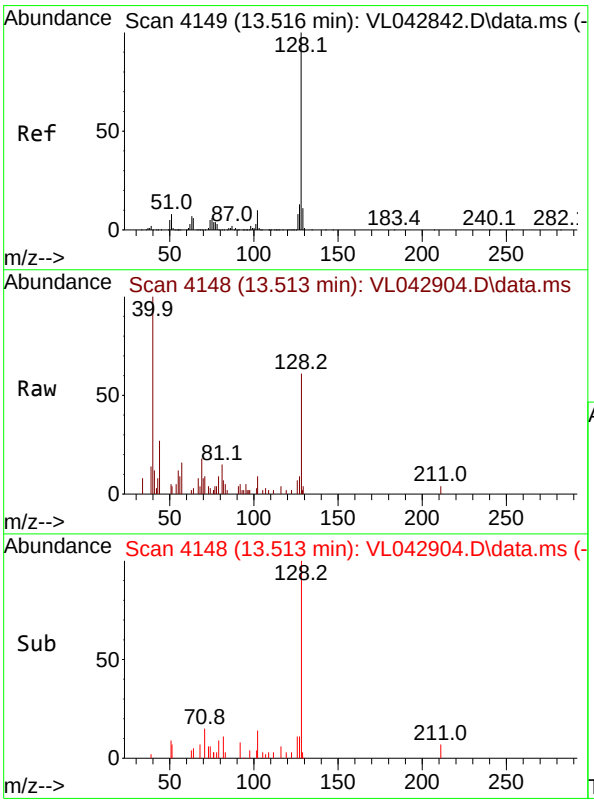
#74
1,2,4-Trimethylbenzene
Concen: 1.133 ppbv
RT: 11.532 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Instrument :
MSVOA_L
ClientSampleId :
IA-2

Tgt Ion:105 Resp: 53900

Ion	Ratio	Lower	Upper
105	100		
120	42.0	39.8	59.6
91	11.6	54.2	81.4#
77	15.5	19.8	29.6#

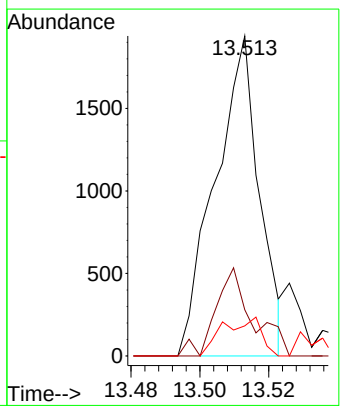




#79
Naphthalene
Concen: 0.040 ppbv
RT: 13.513 min Scan# 4148
Delta R.T. 0.009 min
Lab File: VL042904.D
Acq: 08 Sep 2025 15:15

Tgt Ion:128 Resp: 1724

Ion	Ratio	Lower	Upper
128	100		
127	14.4	10.6	16.0
129	9.4	8.9	13.3



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
Data File : VL042905.D
Acq On : 08 Sep 2025 15:59
Operator : SY/MD
Sample : Q3037-01DUP
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Quant Time: Sep 09 00:57:19 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 : Tue Sep 09 00:52:26 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.781	49	141221	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.949	114	372044	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.875	117	303028	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.370	95	235889	10.380	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 103.800%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.496	85	9819	0.474	ppbv		97
3) Chlorodifluoromethane	1.473	51	86667	3.788	ppbv	#	90
4) Chloromethane	1.531	50	8391	1.005	ppbv		100
7) Chloroethane	1.700	64	294	0.092	ppbv	#	85
9) Propene	1.884	41	251325	25.438	ppbv		92
10) Heptane	4.965	43	897	0.034	ppbv	#	26
11) Trichlorofluoromethane	1.900	101	4801	0.235	ppbv		86
12) 1,1,2-Trichlorotrifluo...	2.140	101	1202	0.074	ppbv	#	82
13) Ethanol	1.719	45	171366	189.695	ppbv		92
15) Acetone	1.832	43	2269673	121.496	ppbv	#	76
16) 1,3-Butadiene	1.619	39	5125	0.605	ppbv	#	22
17) tert-Butyl alcohol	2.043	59	3792	0.171	ppbv	#	1
19) Isopropyl Alcohol	1.884	45	2182649	195.618	ppbv		98
20) Methylene Chloride	2.062	84	8047	1.028	ppbv	#	74
21) Allyl Chloride	1.958	41	7443	0.564	ppbv	#	23
23) Vinyl Acetate	2.450	43	21178	0.825	ppbv	#	86
24) 1,1-Dichloroethane	2.777	63	551	0.033	ppbv	#	88
25) Ethyl Acetate	2.832	43	150520	3.329	ppbv	#	95
26) Hexane	2.819	57	19030	0.912	ppbv	#	1
27) Carbon Disulfide	2.146	76	1070	0.053	ppbv	#	43
29) Chloroform	2.845	83	8213	0.276	ppbv		93
31) cis-1,2-Dichloroethene	2.832	61	17577	0.843	ppbv	#	23
34) 2-Butanone	2.554	43	27696	1.102	ppbv		97
35) Carbon Tetrachloride	3.755	117	4459	0.174	ppbv	#	97
36) Benzene	3.648	78	2959	0.083	ppbv	#	81
37) 1,2-Dichloroethane	3.211	62	750	0.040	ppbv	#	79
39) 1,2-Dichloropropane	3.949	63	97144	7.466	ppbv	#	27
40) 1,4-Dioxane	4.590	88	1112	0.180	ppbv	#	22
41) Tetrahydrofuran	3.052	42	1132	0.081	ppbv	#	66
43) Methyl Methacrylate	4.868	69	1057	0.072	ppbv	#	1
50) 4-Methyl-2-Pentanone	5.745	43	68077	2.005	ppbv		99
51) 2-Hexanone	7.438	43	4166	0.156	ppbv	#	97
53) Toluene	6.927	91	6220	0.147	ppbv	#	1
58) Ethyl Benzene	9.348	91	2812	0.053	ppbv	#	85
59) m/p-Xylene	9.545	91	1627	0.039	ppbv	#	100
60) o-Xylene	9.959	91	4723	0.112	ppbv		87
61) Styrene	9.866	104	1409	0.071	ppbv	#	60
62) Isopropylbenzene	10.529	105	1966	0.032	ppbv		98
64) n-propylbenzene	10.989	120	589	0.037	ppbv	#	1
65) tert-Butylbenzene	11.532	119	5846	0.108	ppbv	#	47
67) sec-Butylbenzene	11.759	105	2374	0.031	ppbv	#	48
69) p-Isopropyltoluene	11.921	119	4177	0.064	ppbv	#	81
72) 4-Ethyltoluene	11.121	105	12693	0.248	ppbv	#	56

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
Data File : VL042905.D
Acq On : 08 Sep 2025 15:59
Operator : SY/MD
Sample : Q3037-01DUP
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Quant Time: Sep 09 00:57:19 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 : Tue Sep 09 00:52:26 2025
Response via : Initial Calibration

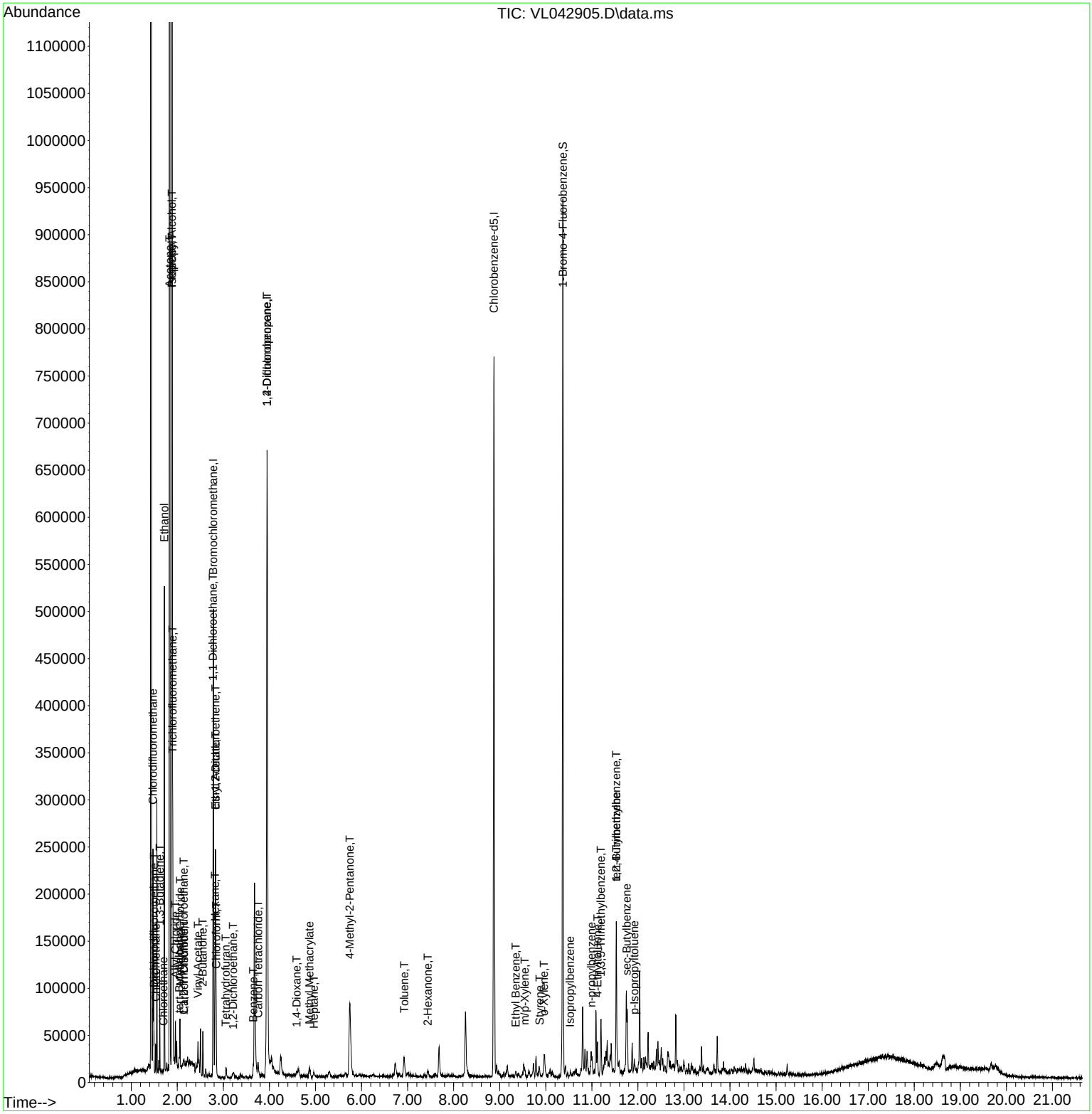
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
73) 1,3,5-Trimethylbenzene	11.196	105	14080	0.324	ppbv #	84
74) 1,2,4-Trimethylbenzene	11.532	105	53636	1.124	ppbv #	59

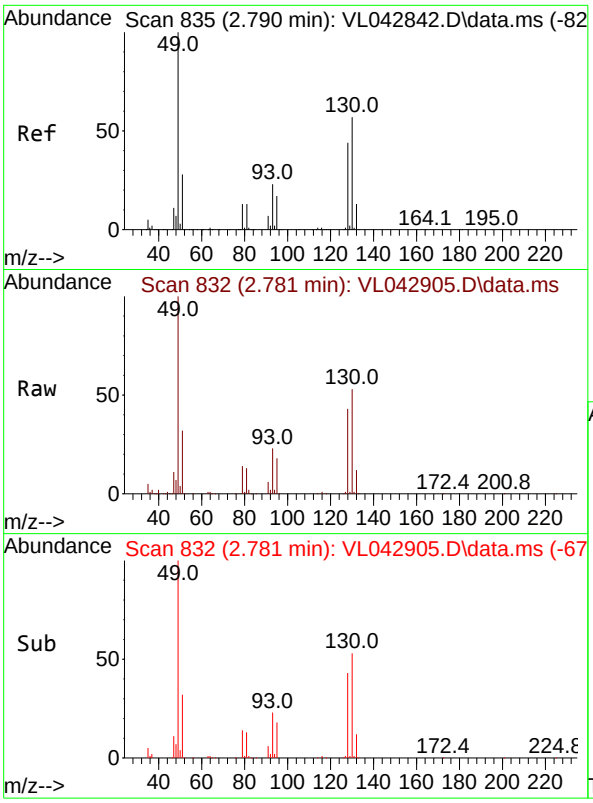
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
Data File : VL042905.D
Acq On : 08 Sep 2025 15:59
Operator : SY/MD
Sample : Q3037-01DUP
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Quant Time: Sep 09 00:57:19 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 : Tue Sep 09 00:52:26 2025
Response via : Initial Calibration



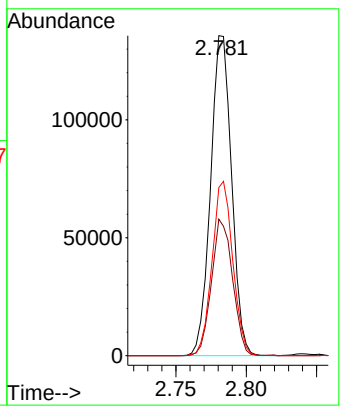


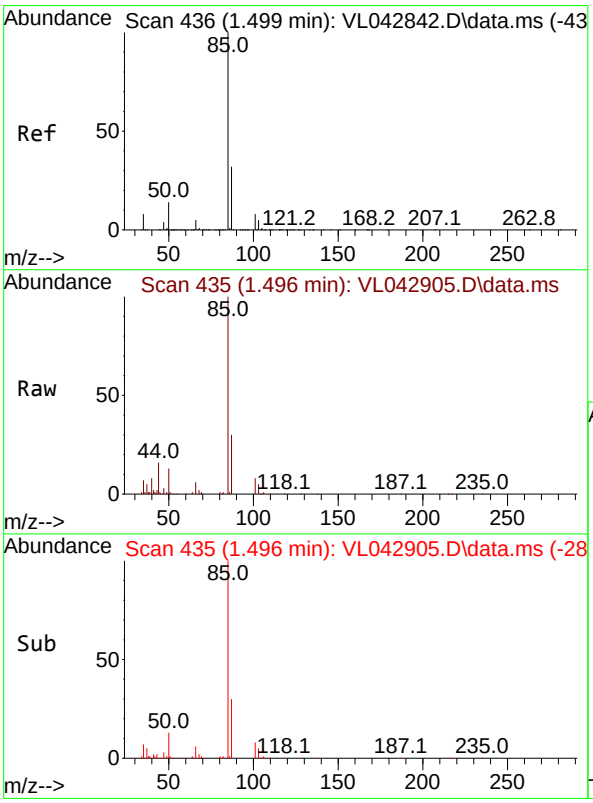
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 8
Delta R.T. 0.004 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Tgt Ion: 49 Resp: 141221

Ion	Ratio	Lower	Upper
49	100		
128	42.8	23.7	71.1
130	53.7	30.6	91.6

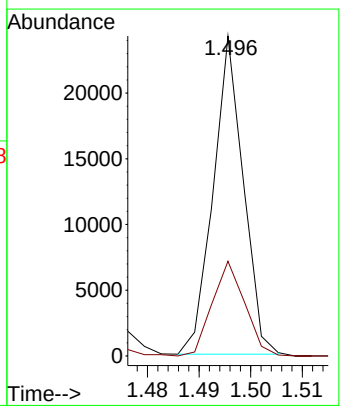


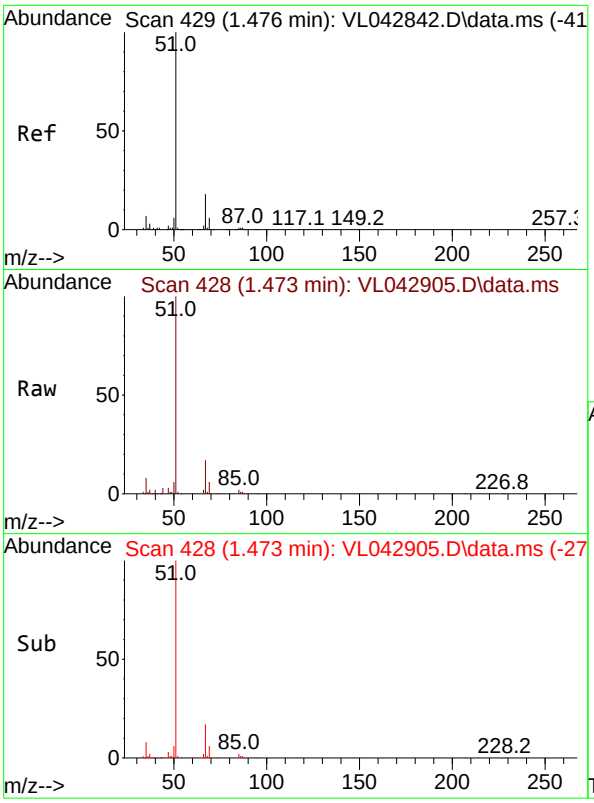


#2
Dichlorodifluoromethane
Concen: 0.474 ppbv
RT: 1.496 min Scan# 435
Delta R.T. 0.003 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion: 85 Resp: 9819

Ion	Ratio	Lower	Upper
85	100		
87	29.8	25.3	37.9



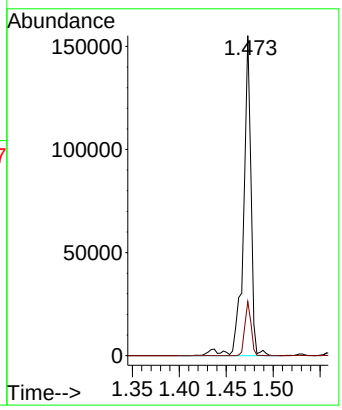


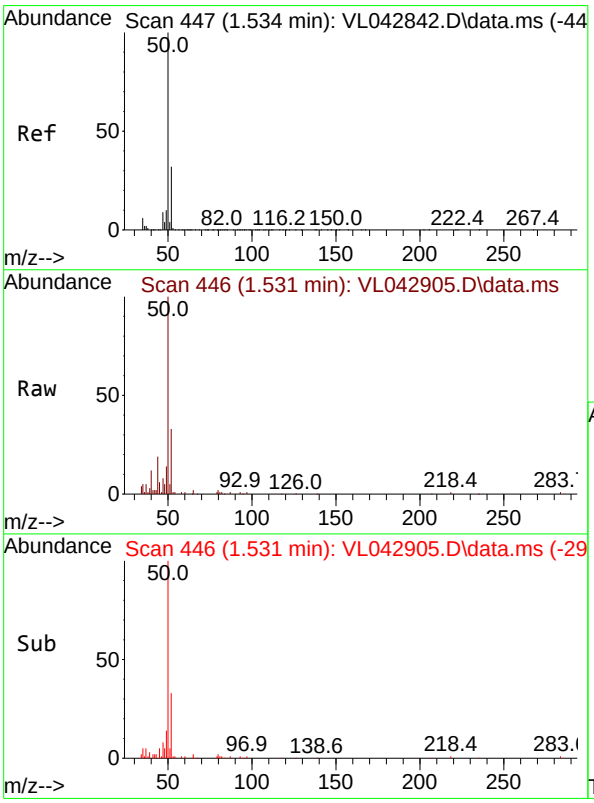
#3
Chlorodifluoromethane
Concen: 3.788 ppbv
RT: 1.473 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Tgt Ion: 51 Resp: 86667

Ion	Ratio	Lower	Upper
51	100		
67	14.0	14.9	22.3#

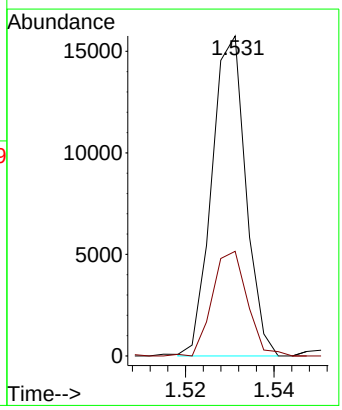


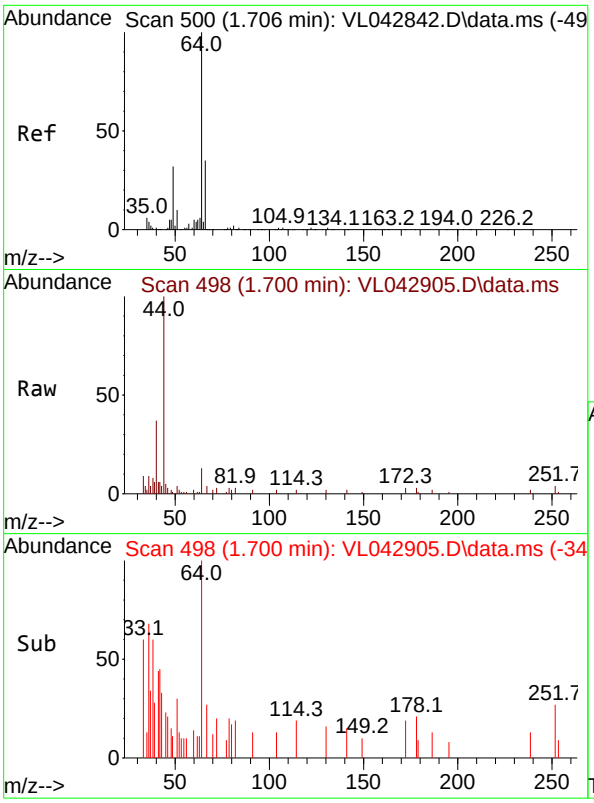


#4
Chloromethane
Concen: 1.005 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.003 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion: 50 Resp: 8391

Ion	Ratio	Lower	Upper
50	100		
52	32.2	25.9	38.9



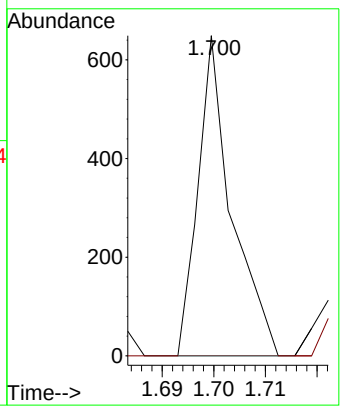


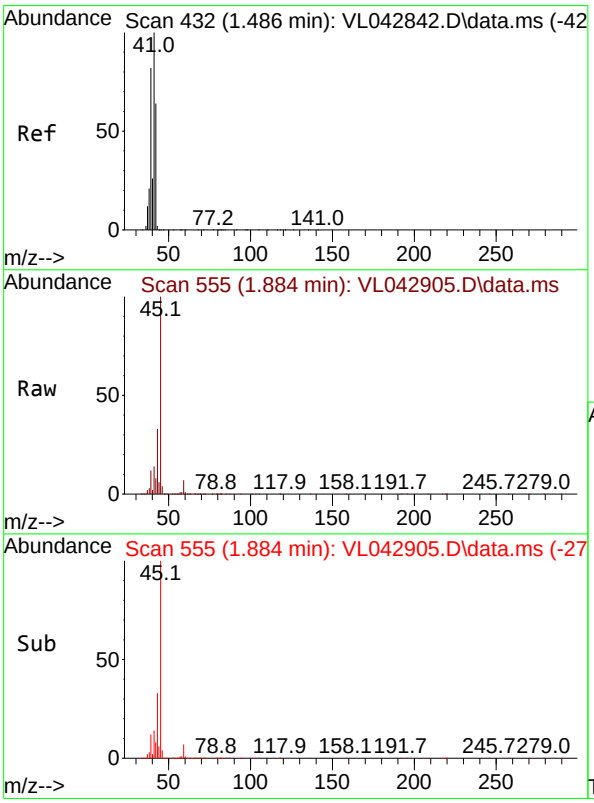
#7
Chloroethane
Concen: 0.092 ppbv
RT: 1.700 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Tgt Ion: 64 Resp: 294

Ion	Ratio	Lower	Upper
64	100		
66	27.1	28.6	42.8#

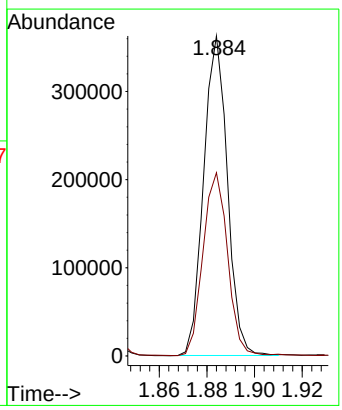


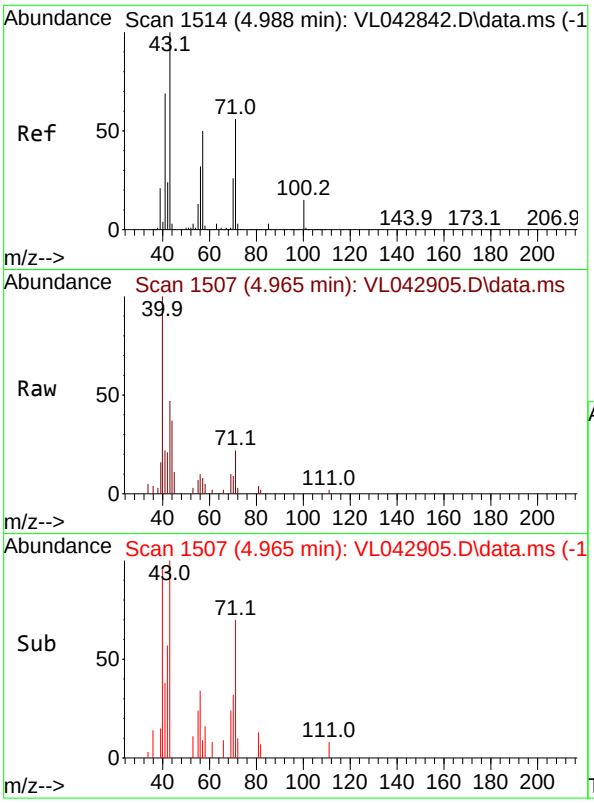


#9
Propene
Concen: 25.438 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.408 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion: 41 Resp: 251325

Ion	Ratio	Lower	Upper
41	100		
42	59.5	53.0	79.4



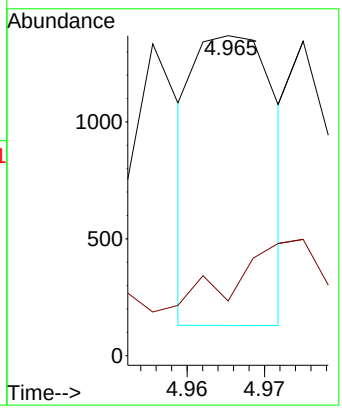


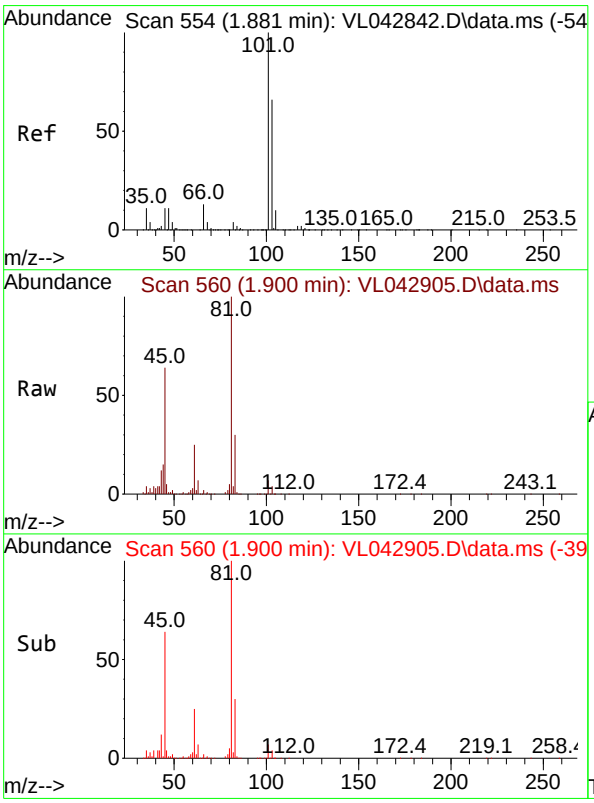
#10
Heptane
Concen: 0.034 ppbv
RT: 4.965 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Tgt Ion: 43 Resp: 897

Ion	Ratio	Lower	Upper
43	100		
57	0.0	41.4	62.0#

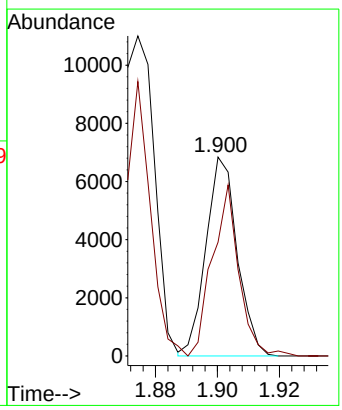


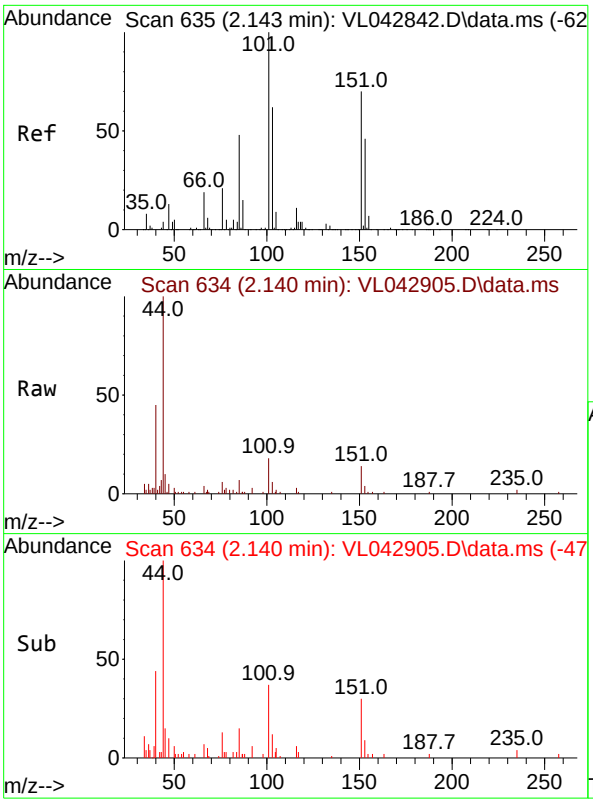


#11
Trichlorofluoromethane
Concen: 0.235 ppbv
RT: 1.900 min Scan# 560
Delta R.T. 0.029 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion:101 Resp: 4801

Ion	Ratio	Lower	Upper
101	100		
103	54.7	52.5	78.7



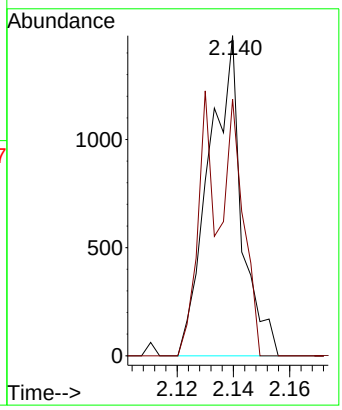


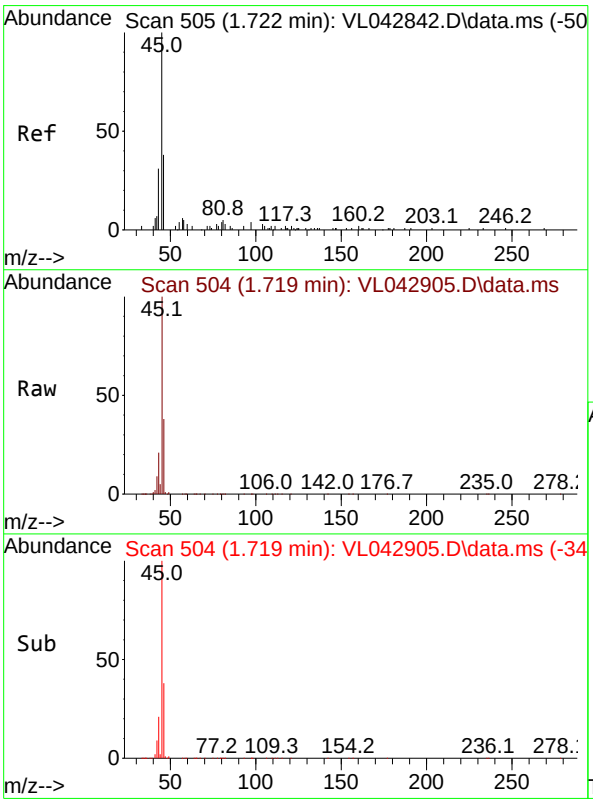
#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.074 ppbv
RT: 2.140 min Scan# 6
Delta R.T. 0.006 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Tgt Ion:101 Resp: 1202

Ion	Ratio	Lower	Upper
101	100		
151	85.3	56.4	84.6#

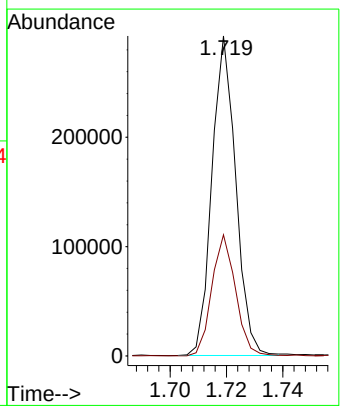


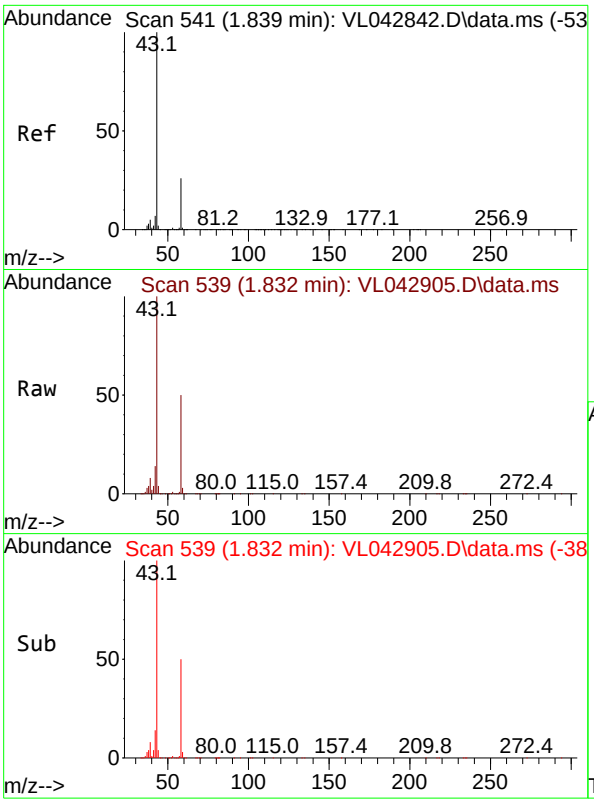


#13
Ethanol
Concen: 189.695 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion: 45 Resp: 171366

Ion	Ratio	Lower	Upper
45	100		
46	38.4	17.5	69.9



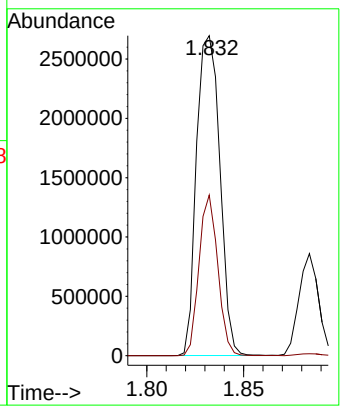


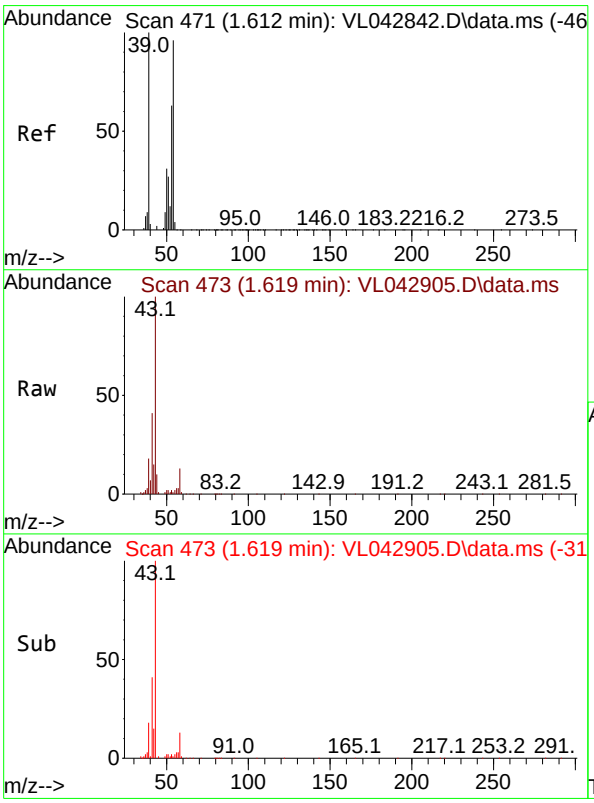
#15
Acetone
Concen: 121.496 ppbv
RT: 1.832 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Tgt Ion: 43 Resp: 2269673

Ion	Ratio	Lower	Upper
43	100		
58	40.4	22.4	33.6#

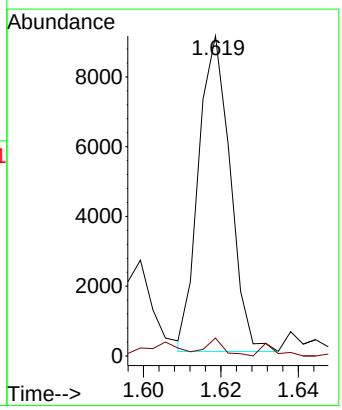


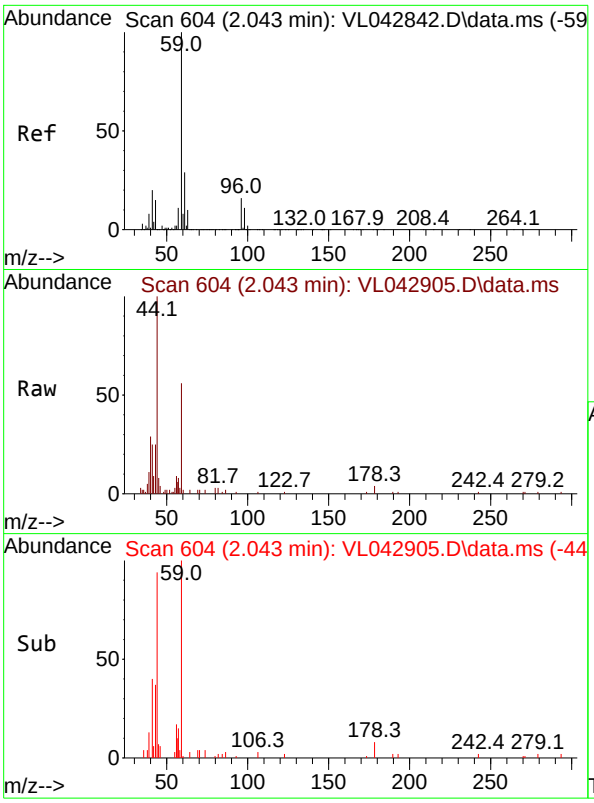


#16
1,3-Butadiene
Concen: 0.605 ppbv
RT: 1.619 min Scan# 473
Delta R.T. 0.016 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion: 39 Resp: 5125

Ion	Ratio	Lower	Upper
39	100		
54	10.8	63.6	95.4#



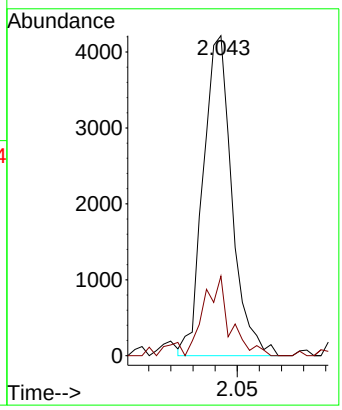


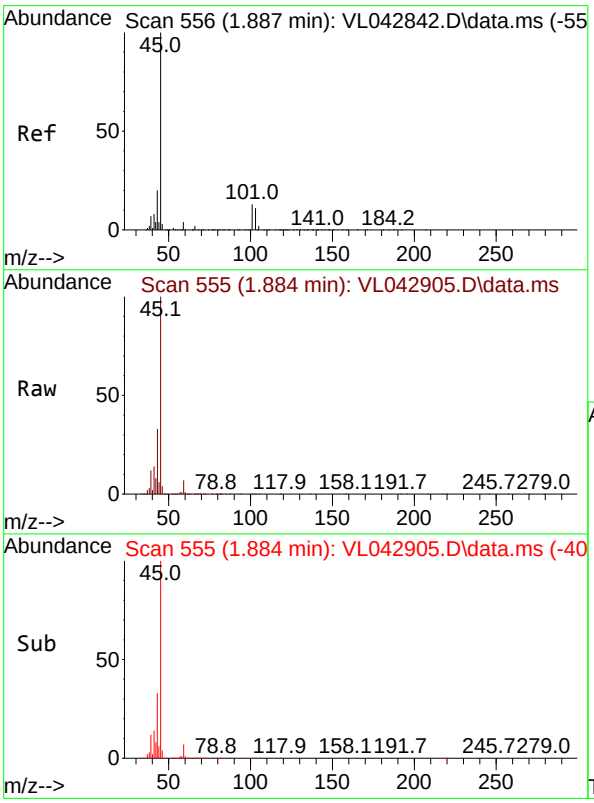
#17
tert-Butyl alcohol
Concen: 0.171 ppbv
RT: 2.043 min Scan# 6
Delta R.T. 0.010 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Tgt Ion: 59 Resp: 3792

Ion	Ratio	Lower	Upper
59	100		
57	52.6	9.0	13.4#

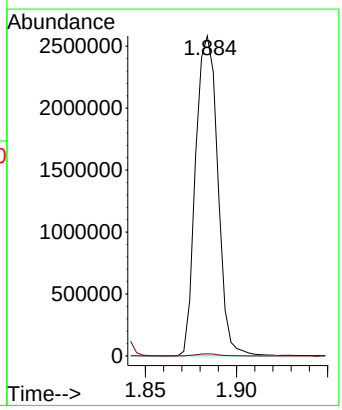


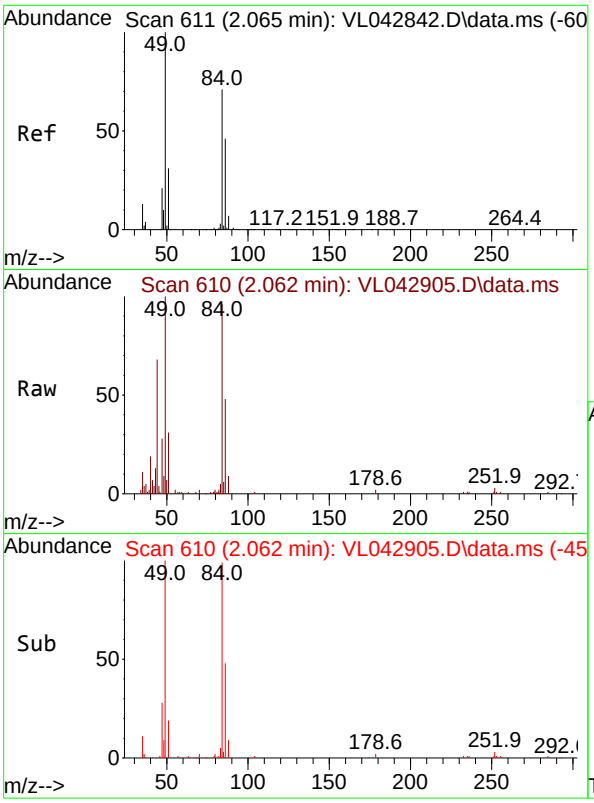


#19
Isopropyl Alcohol
Concen: 195.618 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.003 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion: 45 Resp: 2182649

Ion	Ratio	Lower	Upper
45	100		
58	42.0	32.7	49.1



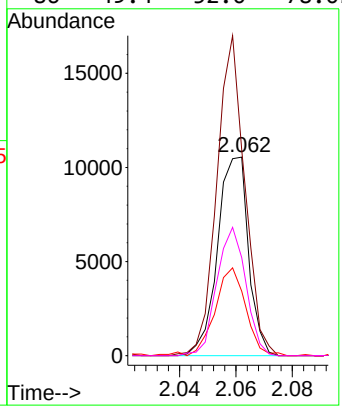


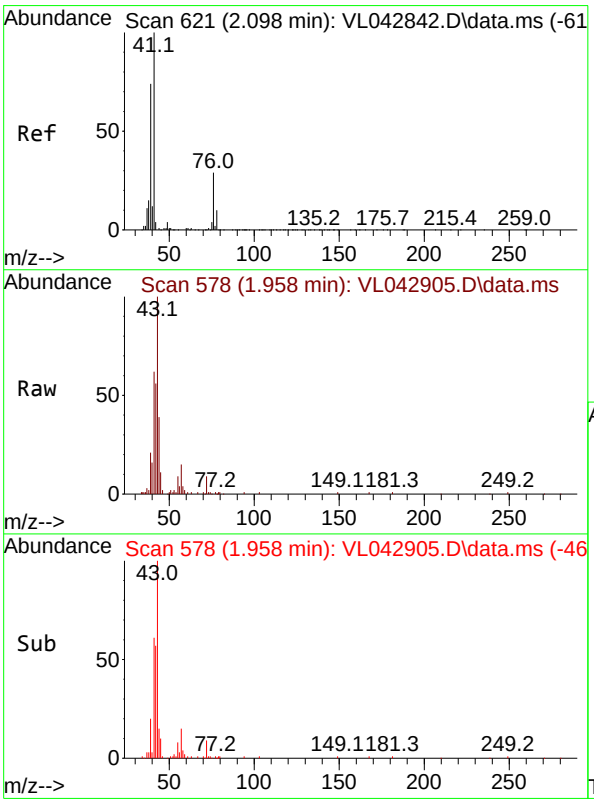
#20
Methylene Chloride
Concen: 1.028 ppbv
RT: 2.062 min Scan# 61
Delta R.T. 0.006 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Tgt Ion: 84 Resp: 8047

Ion	Ratio	Lower	Upper
84	100		
49	102.7	112.3	168.5#
51	30.7	36.0	54.0#
86	49.4	52.0	78.0#

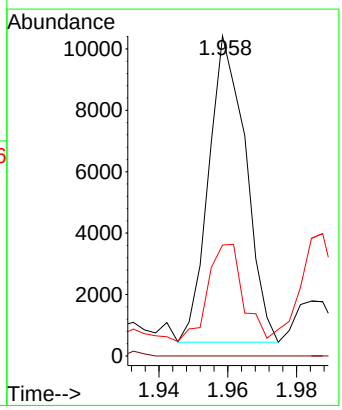


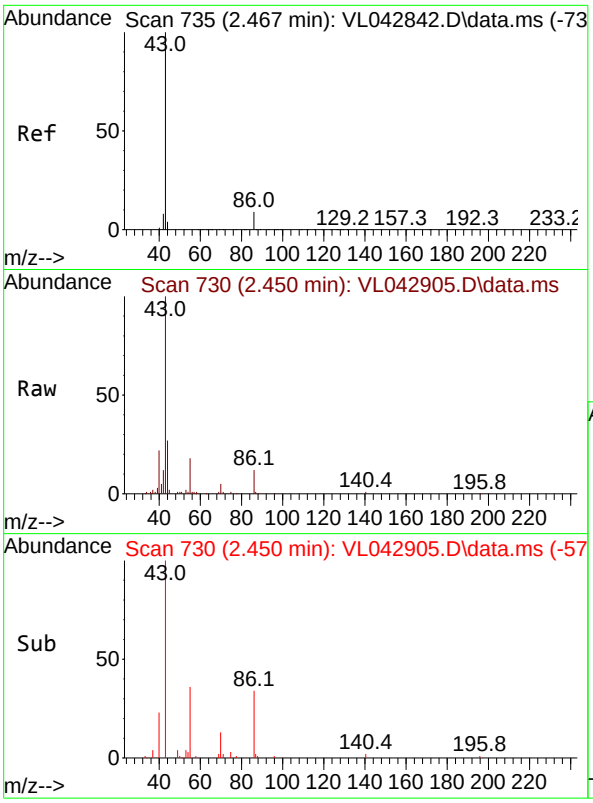


#21
Allyl Chloride
Concen: 0.564 ppbv
RT: 1.958 min Scan# 578
Delta R.T. -0.130 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion: 41 Resp: 7443

Ion	Ratio	Lower	Upper
41	100		
76	1.3	23.9	35.9#
39	0.0	57.8	86.6#



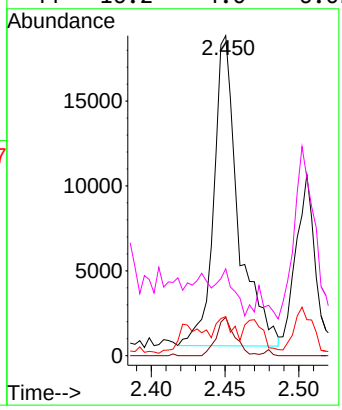


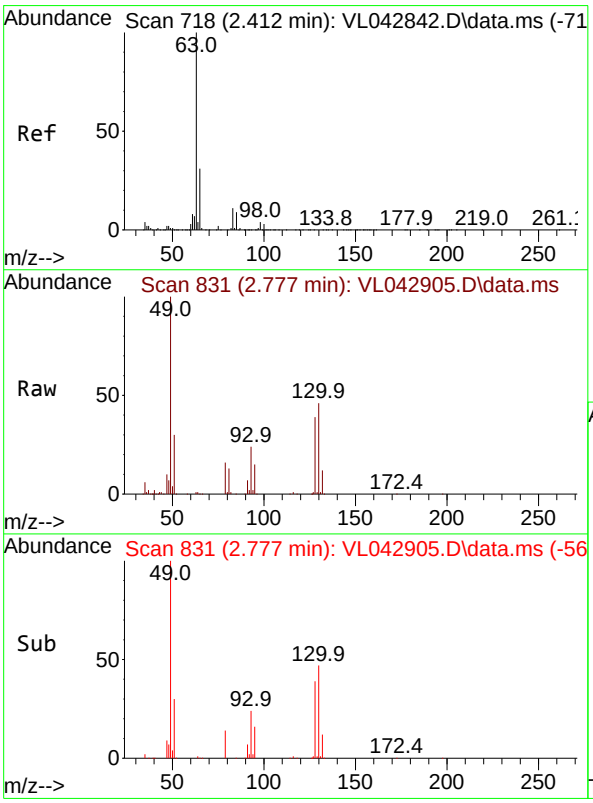
#23
Vinyl Acetate
Concen: 0.825 ppbv
RT: 2.450 min Scan# 7
Delta R.T. -0.003 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Tgt Ion: 43 Resp: 21178

Ion	Ratio	Lower	Upper
43	100		
86	12.4	6.6	9.8#
42	10.6	7.0	10.6#
44	16.2	4.0	6.0#

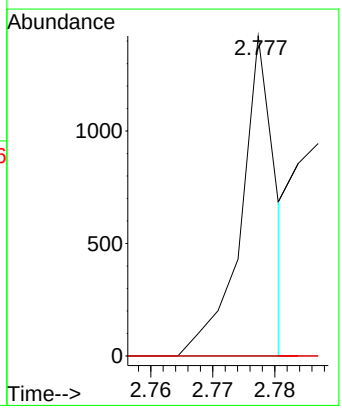


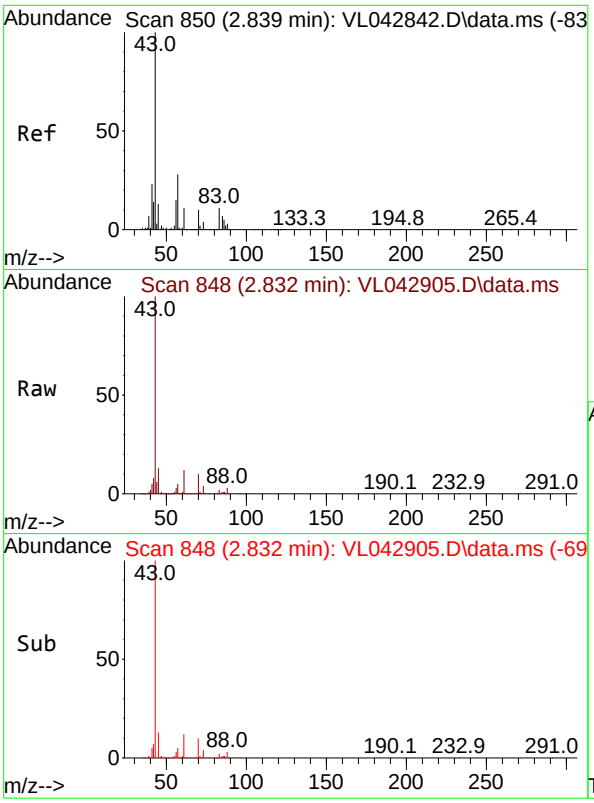


#24
1,1-Dichloroethane
Concen: 0.033 ppbv
RT: 2.777 min Scan# 831
Delta R.T. 0.375 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion: 63 Resp: 551

Ion	Ratio	Lower	Upper
63	100		
98	0.0	2.1	6.5#
100	0.0	1.7	5.1#



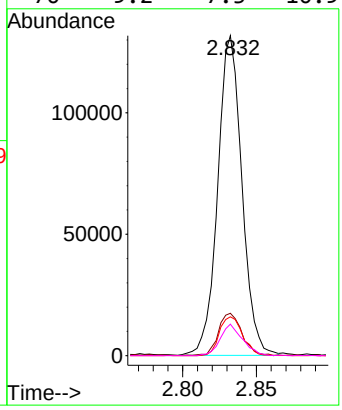


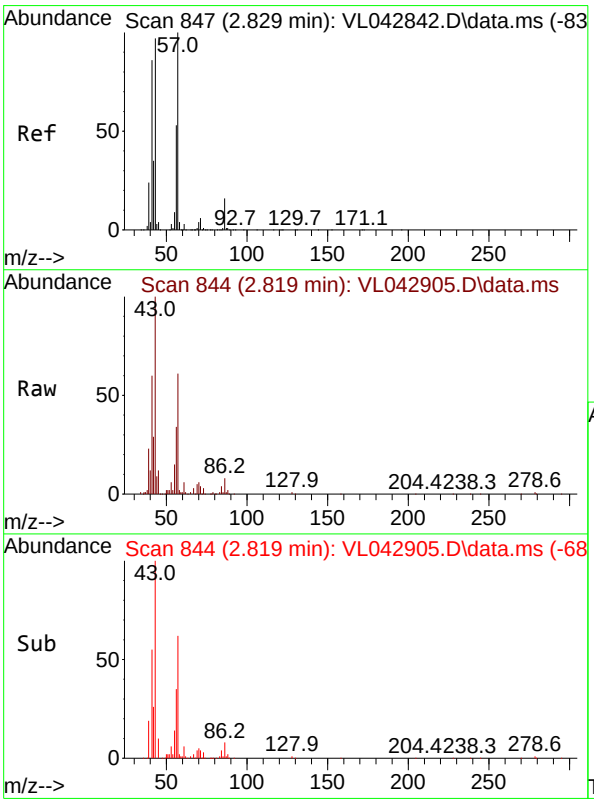
#25
Ethyl Acetate
Concen: 3.329 ppbv
RT: 2.832 min Scan# 84
Delta R.T. 0.006 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Tgt Ion: 43 Resp: 150520

Ion	Ratio	Lower	Upper
43	100		
45	12.7	8.1	12.1#
61	11.7	7.4	11.2#
70	9.2	7.3	10.9

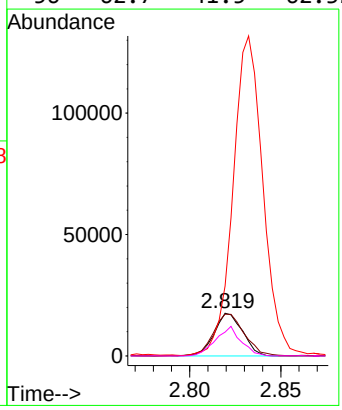


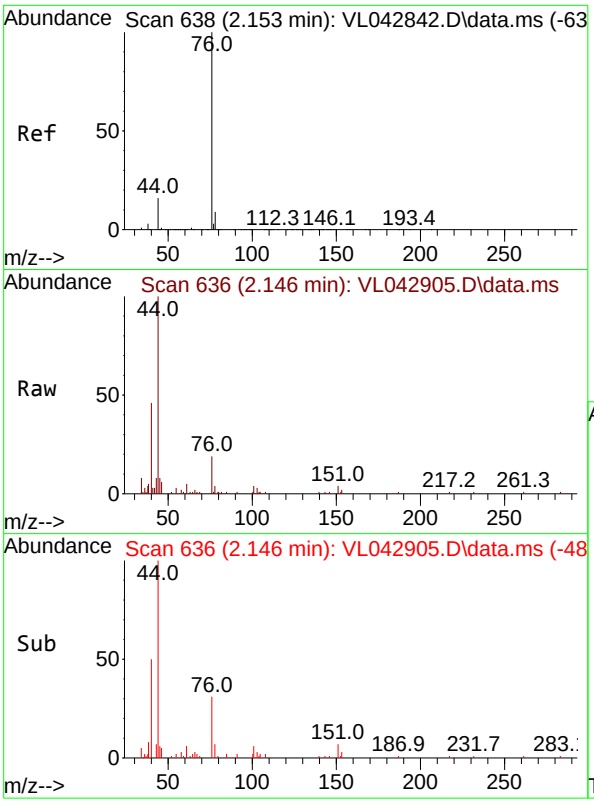


#26
Hexane
Concen: 0.912 ppbv
RT: 2.819 min Scan# 844
Delta R.T. 0.003 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion: 57 Resp: 19030

Ion	Ratio	Lower	Upper
57	100		
41	110.0	68.6	103.0#
43	793.6	168.5	252.7#
56	62.7	41.5	62.3#



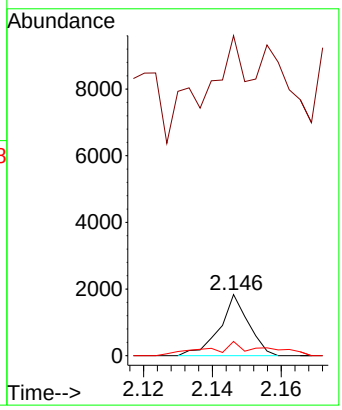


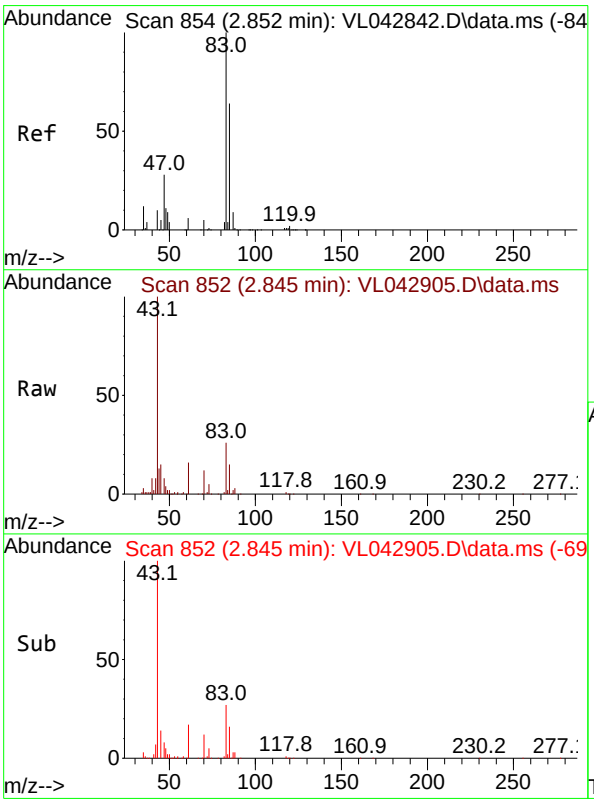
#27
Carbon Disulfide
Concen: 0.053 ppbv
RT: 2.146 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Tgt Ion: 76 Resp: 1070

Ion	Ratio	Lower	Upper
76	100		
44	0.0	15.9	23.9#
78	42.5	9.5	14.3#

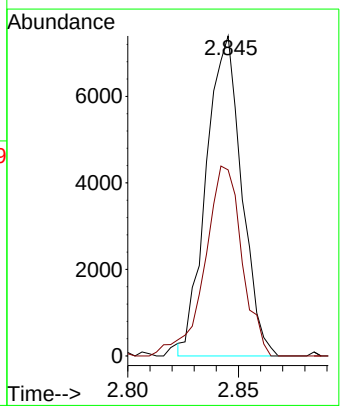


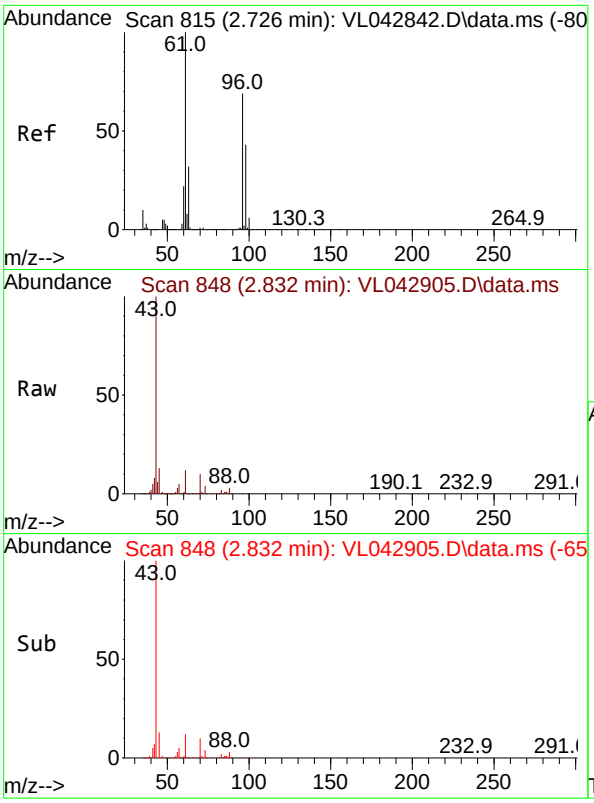


#29
Chloroform
Concen: 0.276 ppbv
RT: 2.845 min Scan# 852
Delta R.T. 0.006 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion: 83 Resp: 8213

Ion	Ratio	Lower	Upper
83	100		
85	58.1	51.1	76.7



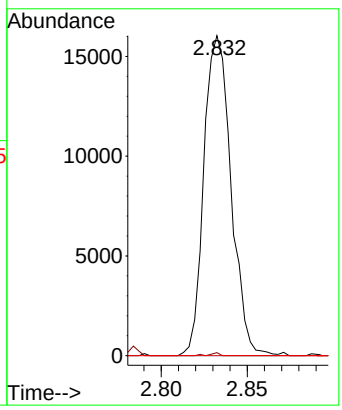


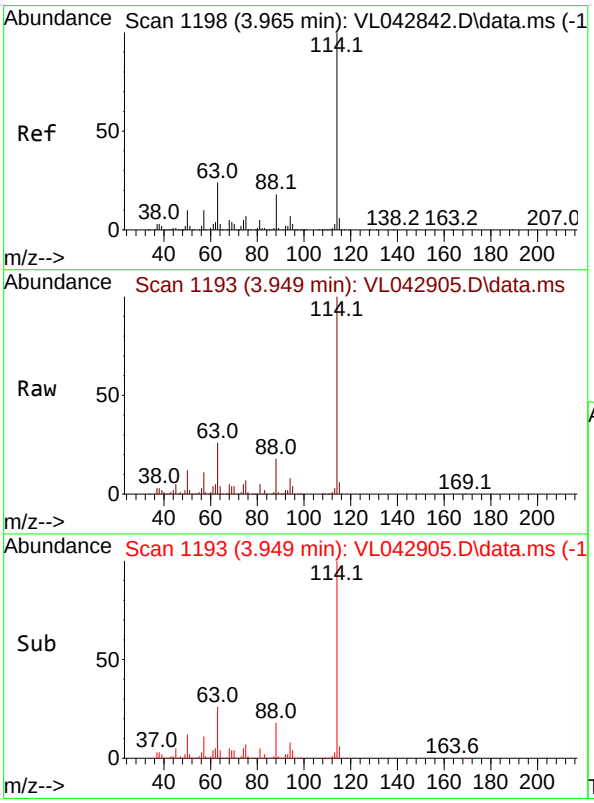
#31
cis-1,2-Dichloroethene
Concen: 0.843 ppbv
RT: 2.832 min Scan# 84
Delta R.T. 0.120 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Tgt Ion: 61 Resp: 17577

Ion	Ratio	Lower	Upper
61	100		
96	1.0	55.0	82.6#
98	0.0	34.3	51.5#

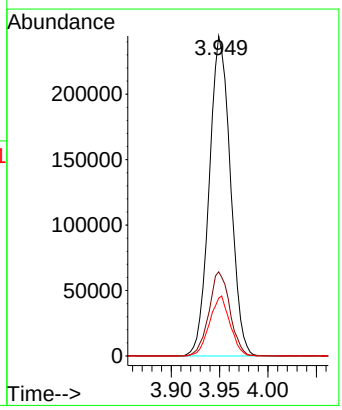


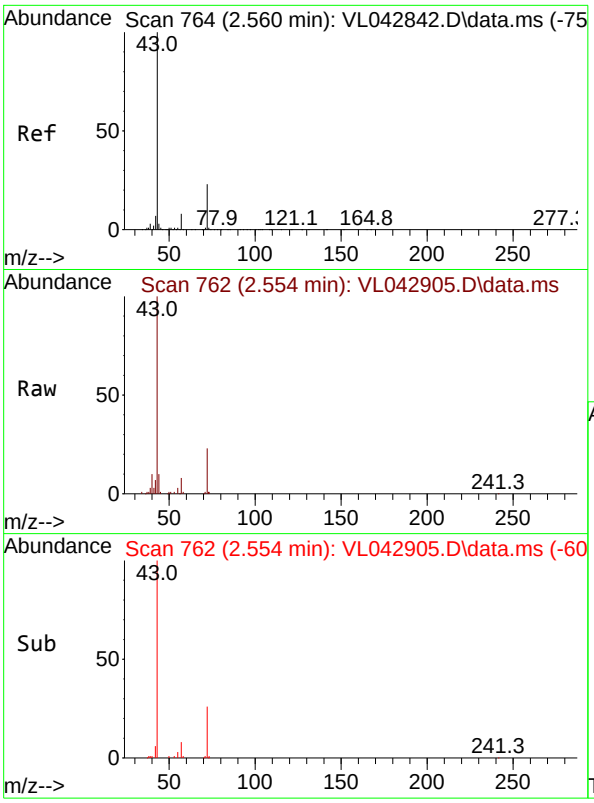


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 1193
Delta R.T. 0.006 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion:114 Resp: 372044

Ion	Ratio	Lower	Upper
114	100		
63	26.1	19.7	29.5
88	18.1	14.4	21.6



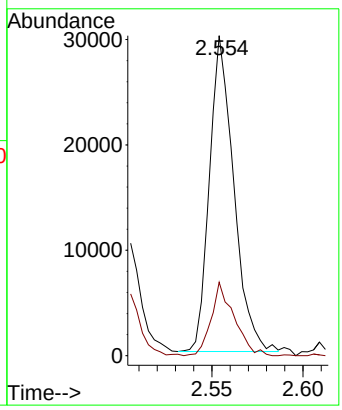


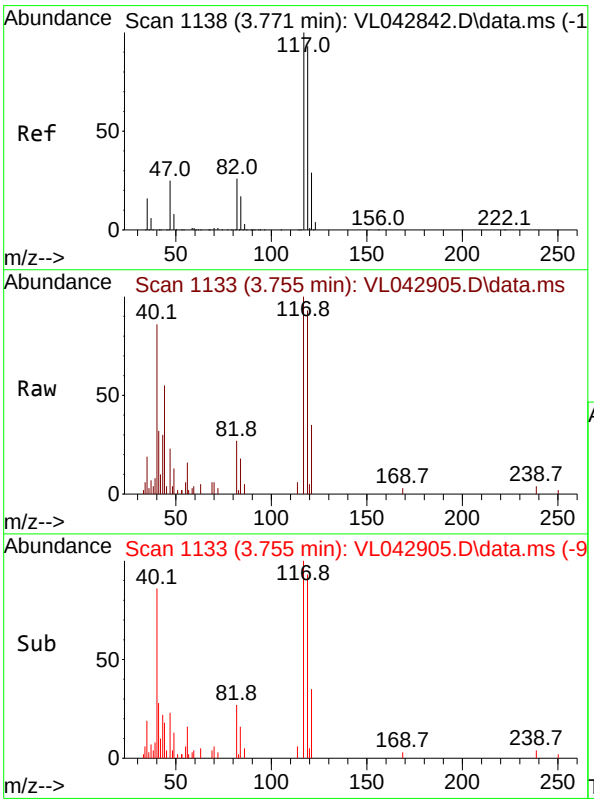
#34
2-Butanone
Concen: 1.102 ppbv
RT: 2.554 min Scan# 7
Delta R.T. 0.006 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Tgt Ion: 43 Resp: 27696

Ion	Ratio	Lower	Upper
43	100		
72	21.9	18.6	28.0

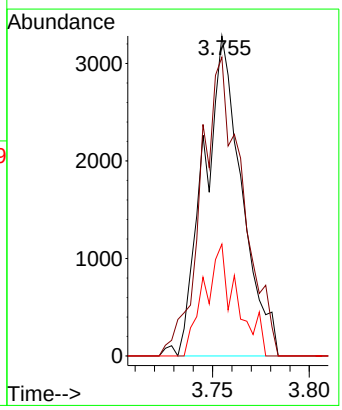


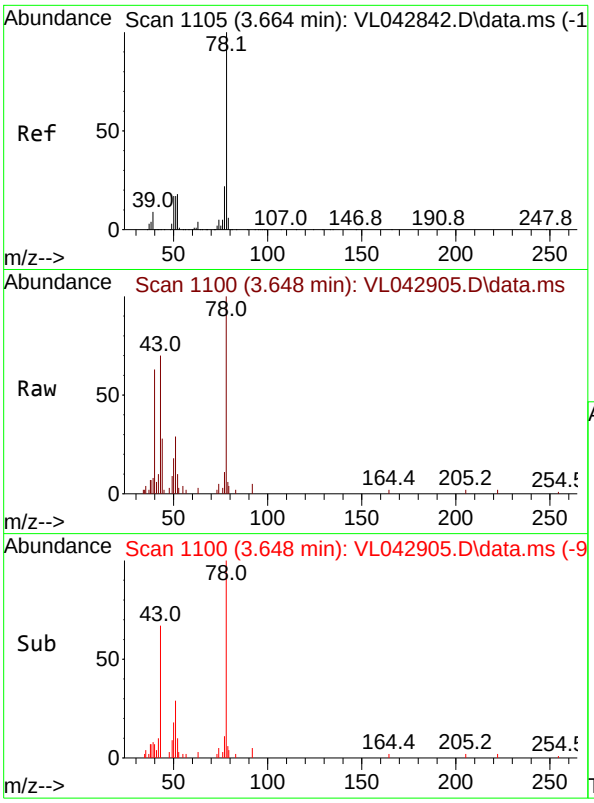


#35
Carbon Tetrachloride
Concen: 0.174 ppbv
RT: 3.755 min Scan# 1133
Delta R.T. 0.006 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion:117 Resp: 4459

Ion	Ratio	Lower	Upper
117	100		
119	93.4	74.7	112.1
121	34.9	23.2	34.8#



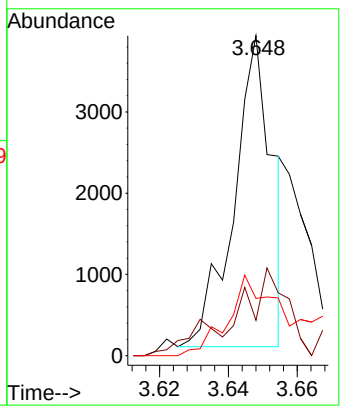


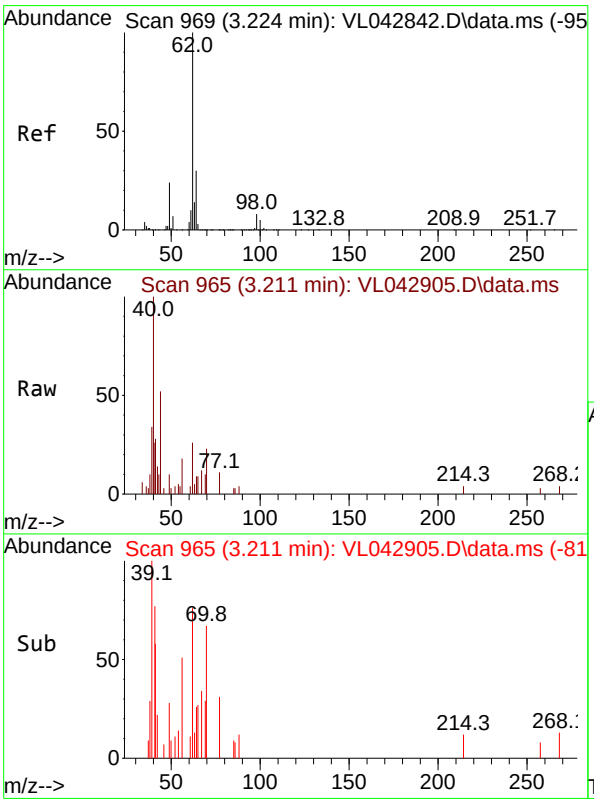
#36
Benzene
Concen: 0.083 ppbv
RT: 3.648 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Tgt Ion: 78 Resp: 2959

Ion	Ratio	Lower	Upper
78	100		
77	6.1	17.7	26.5#
50	17.3	13.9	20.9

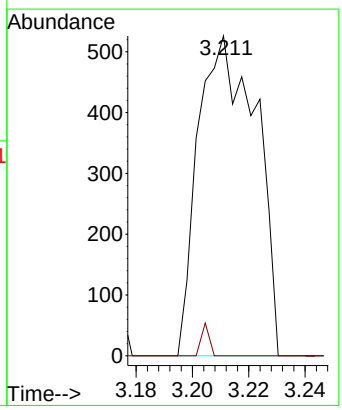


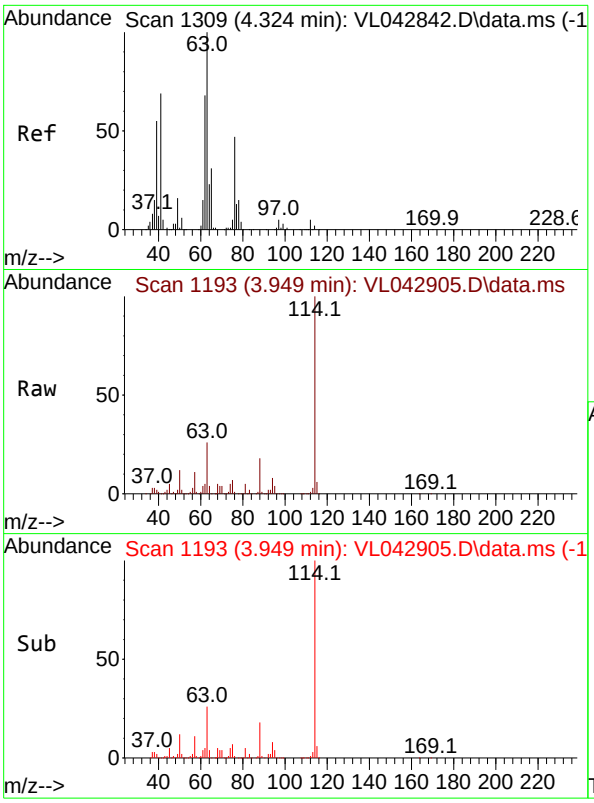


#37
1,2-Dichloroethane
Concen: 0.040 ppbv
RT: 3.211 min Scan# 965
Delta R.T. 0.003 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion: 62 Resp: 750

Ion	Ratio	Lower	Upper
62	100		
98	0.0	5.9	8.9#



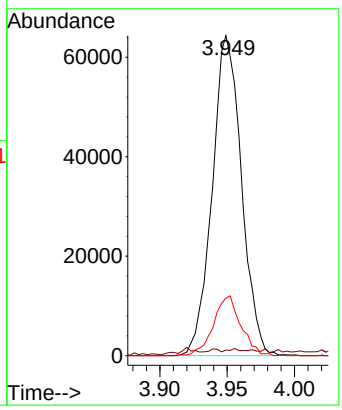


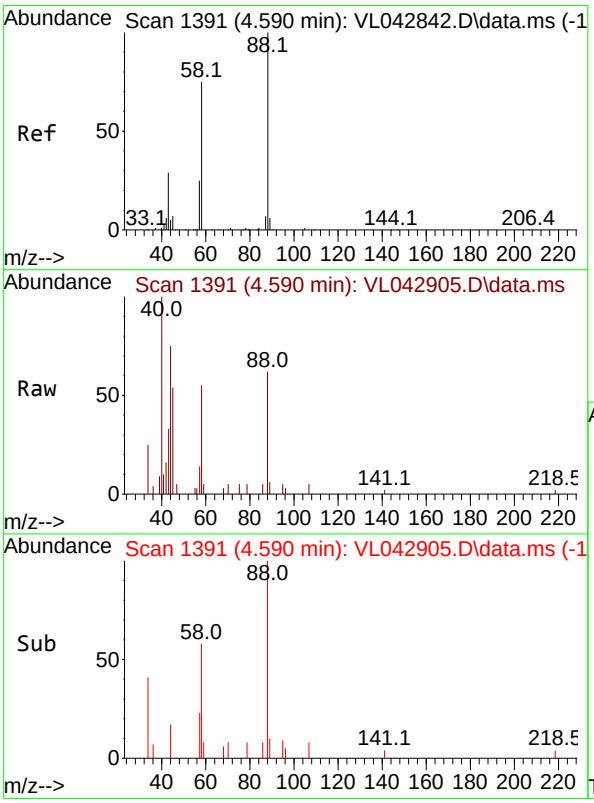
#39
1,2-Dichloropropane
Concen: 7.466 ppbv
RT: 3.949 min Scan# 1
Delta R.T. -0.350 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Tgt Ion: 63 Resp: 97144

Ion	Ratio	Lower	Upper
63	100		
41	1.0	55.0	82.4#
62	17.9	54.4	81.6#

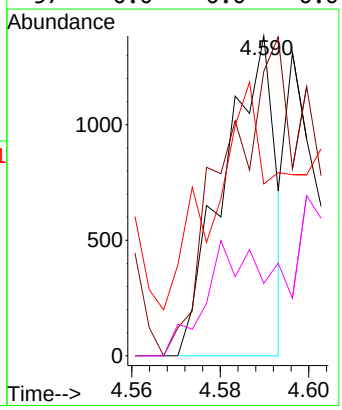


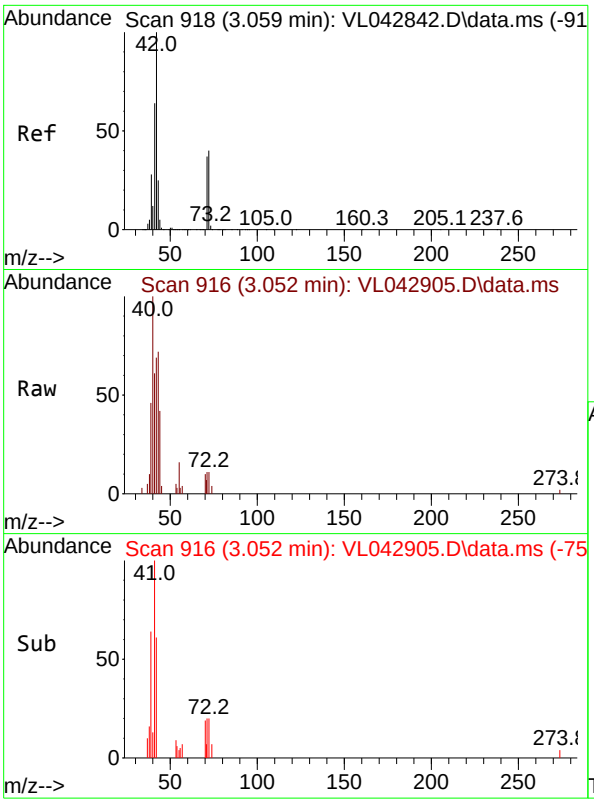


#40
1,4-Dioxane
Concen: 0.180 ppbv
RT: 4.590 min Scan# 1391
Delta R.T. 0.029 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion: 88 Resp: 1112

Ion	Ratio	Lower	Upper
88	100		
58	0.0	53.8	80.6#
43	63.5	22.8	34.2#
57	0.0	0.0	0.0



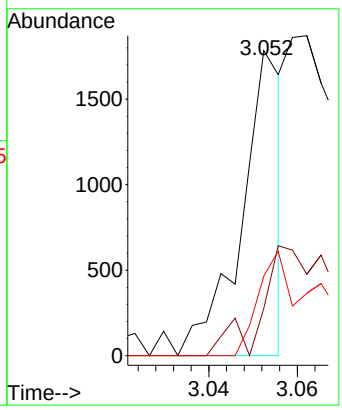


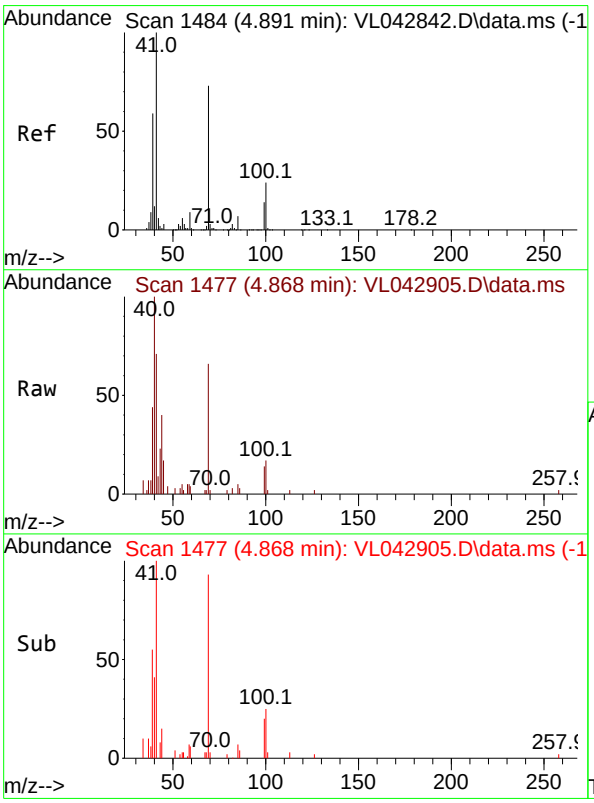
#41
Tetrahydrofuran
Concen: 0.081 ppbv
RT: 3.052 min Scan# 91
Delta R.T. 0.010 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Tgt Ion: 42 Resp: 1132

Ion	Ratio	Lower	Upper
42	100		
72	68.4	32.6	48.8#
71	51.5	30.0	45.0#

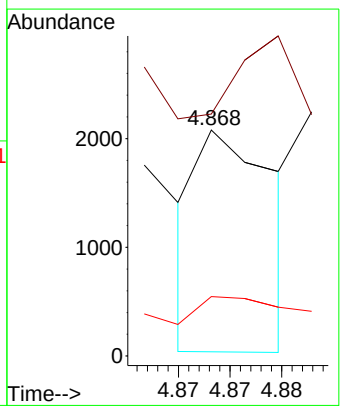


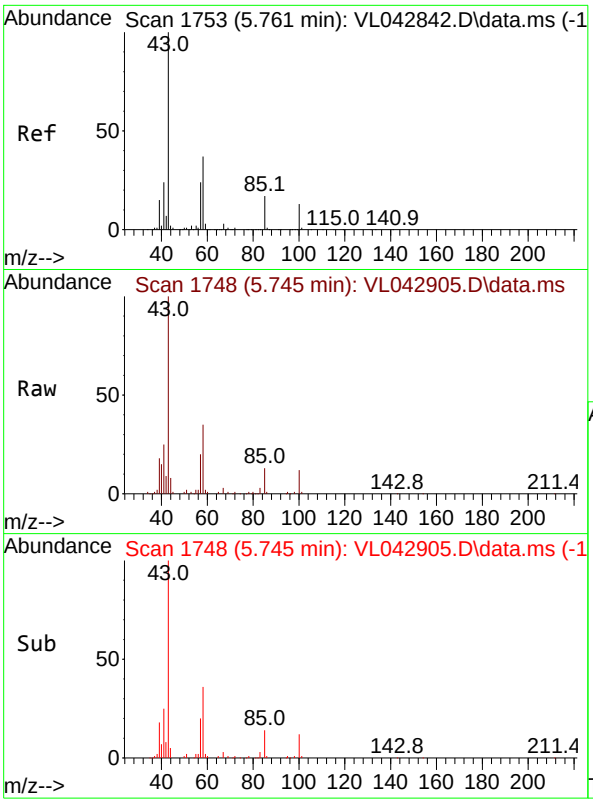


#43
Methyl Methacrylate
Concen: 0.072 ppbv
RT: 4.868 min Scan# 1477
Delta R.T. 0.010 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion: 69 Resp: 1057

Ion	Ratio	Lower	Upper
69	100		
41	0.0	114.6	172.0#
100	118.4	30.2	45.4#



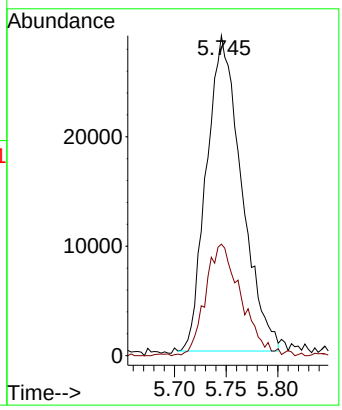


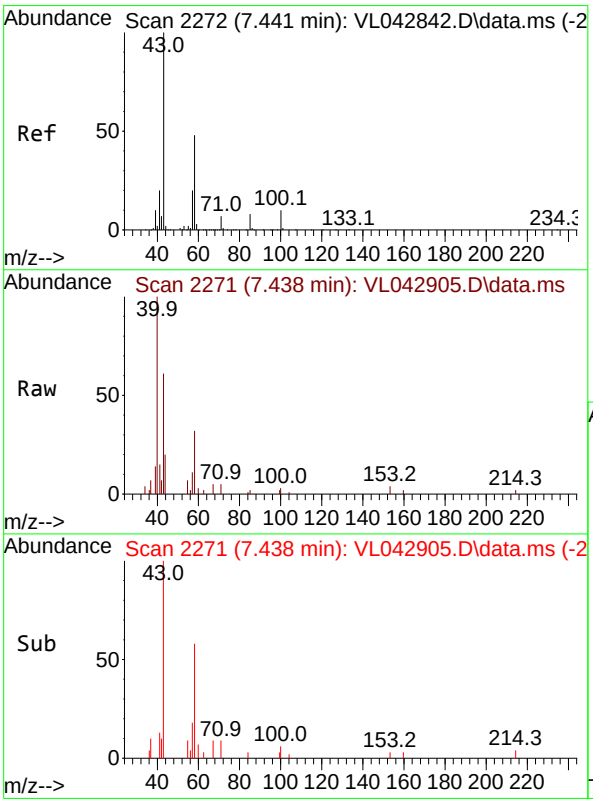
#50
4-Methyl-2-Pentanone
Concen: 2.005 ppbv
RT: 5.745 min Scan# 1
Delta R.T. 0.016 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Tgt Ion: 43 Resp: 68077

Ion	Ratio	Lower	Upper
43	100		
58	36.5	29.8	44.8

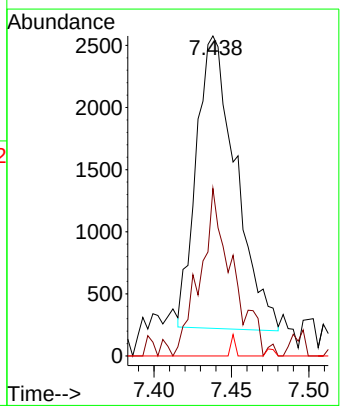


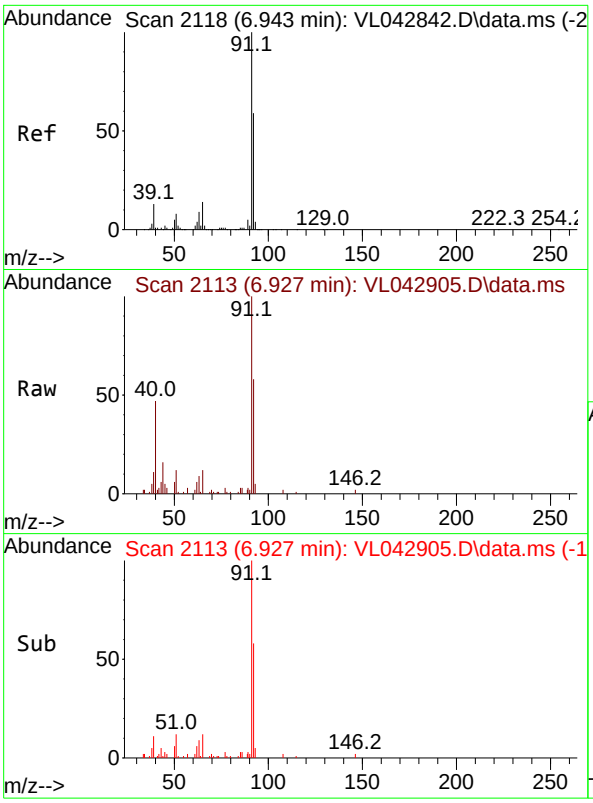


#51
2-Hexanone
Concen: 0.156 ppbv
RT: 7.438 min Scan# 2271
Delta R.T. 0.019 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion: 43 Resp: 4166

Ion	Ratio	Lower	Upper
43	100		
58	49.4	41.0	61.6
98	0.0	0.1	0.1#



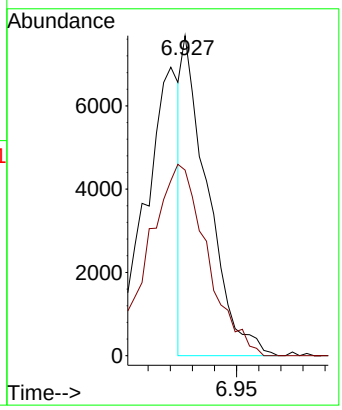


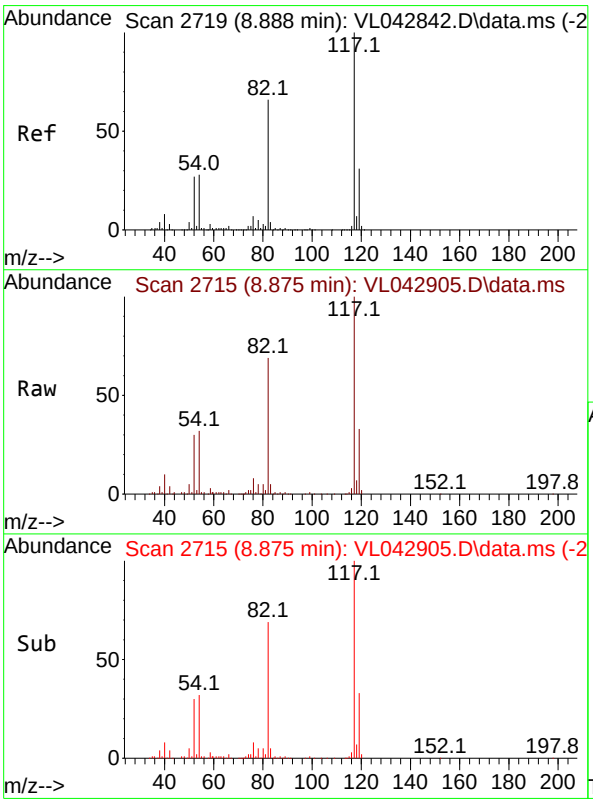
#53
Toluene
Concen: 0.147 ppbv
RT: 6.927 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Tgt Ion: 91 Resp: 6220

Ion	Ratio	Lower	Upper
91	100		
92	139.5	47.8	71.6#

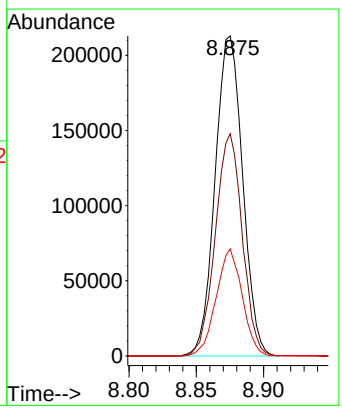


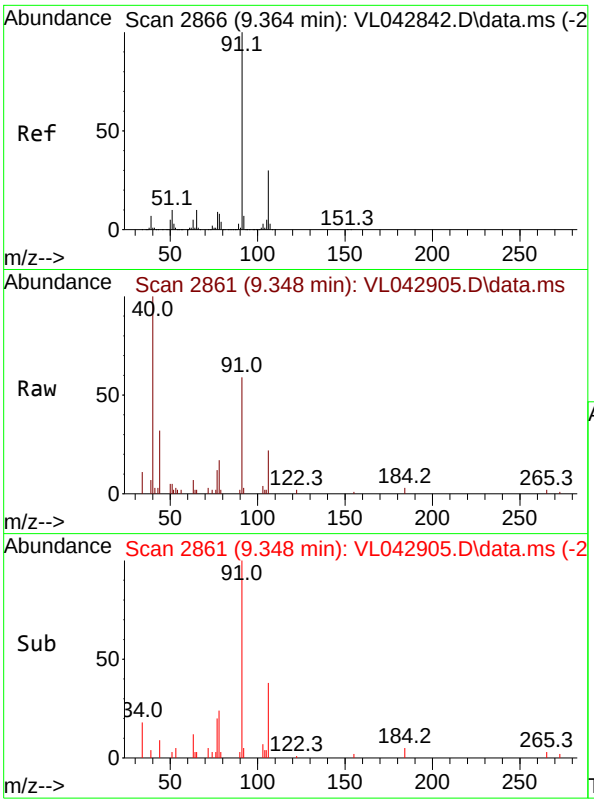


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. 0.006 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion:117 Resp: 303028

Ion	Ratio	Lower	Upper
117	100		
82	67.9	54.6	81.8
119	31.7	25.9	38.9



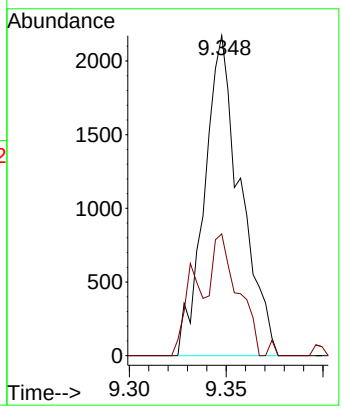


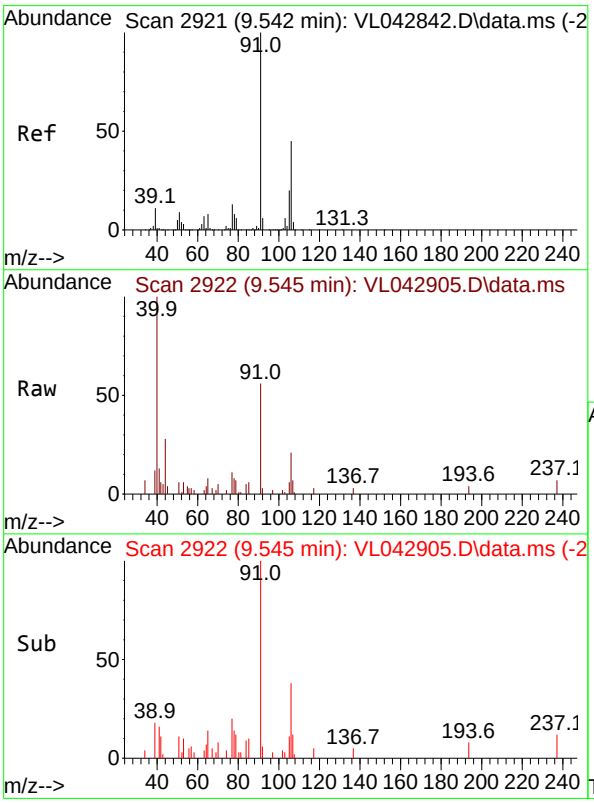
#58
Ethyl Benzene
Concen: 0.053 ppbv
RT: 9.348 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Tgt Ion: 91 Resp: 2812

Ion	Ratio	Lower	Upper
91	100		
106	38.1	23.9	35.9#

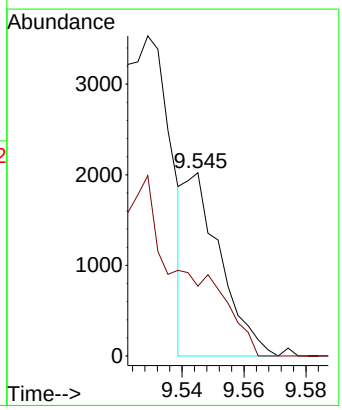


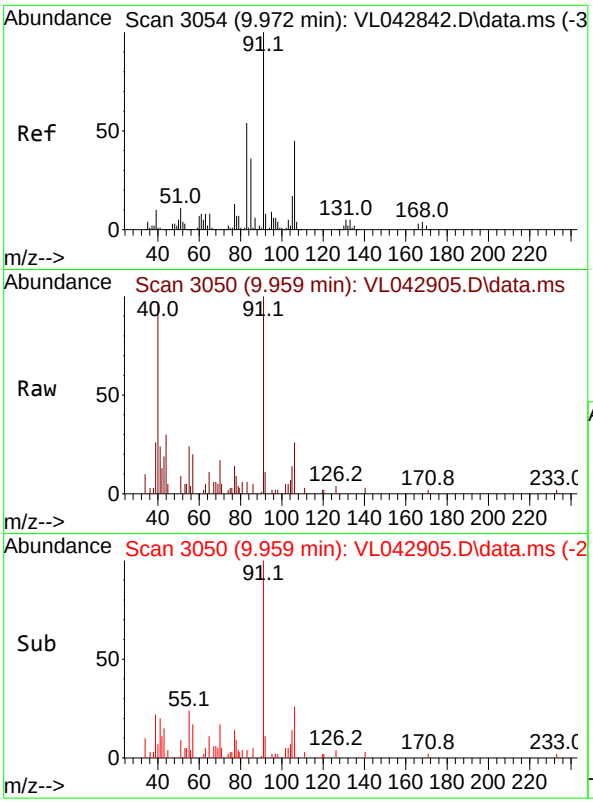


#59
m/p-Xylene
Concen: 0.039 ppbv
RT: 9.545 min Scan# 2922
Delta R.T. 0.006 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion: 91 Resp: 1627

Ion	Ratio	Lower	Upper
91	100		
106	0.0	0.0	0.0



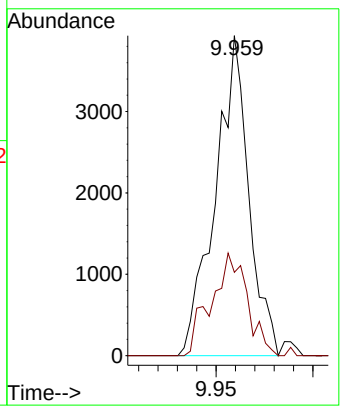


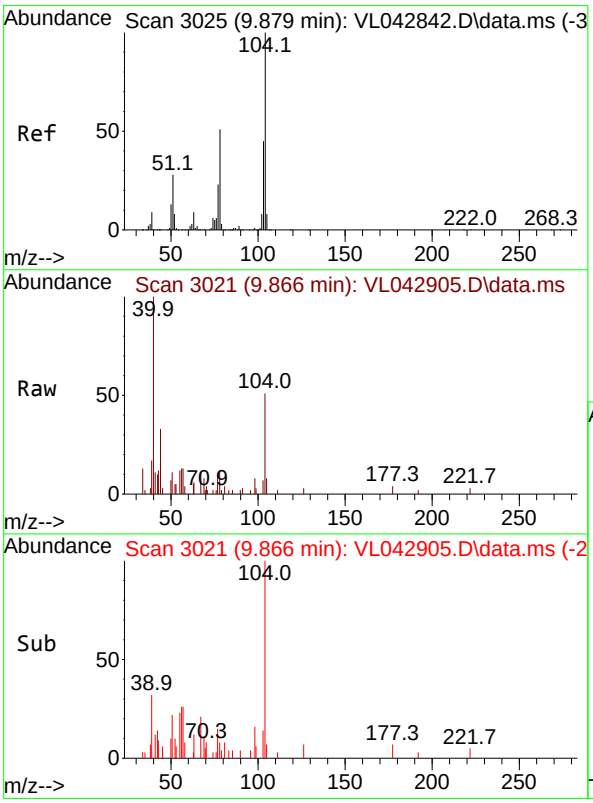
#60
o-Xylene
Concen: 0.112 ppbv
RT: 9.959 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Tgt Ion: 91 Resp: 4723

Ion	Ratio	Lower	Upper
91	100		
106	35.0	21.8	65.4

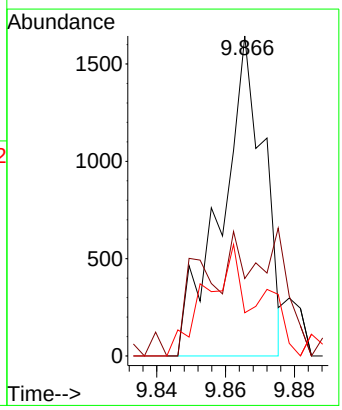


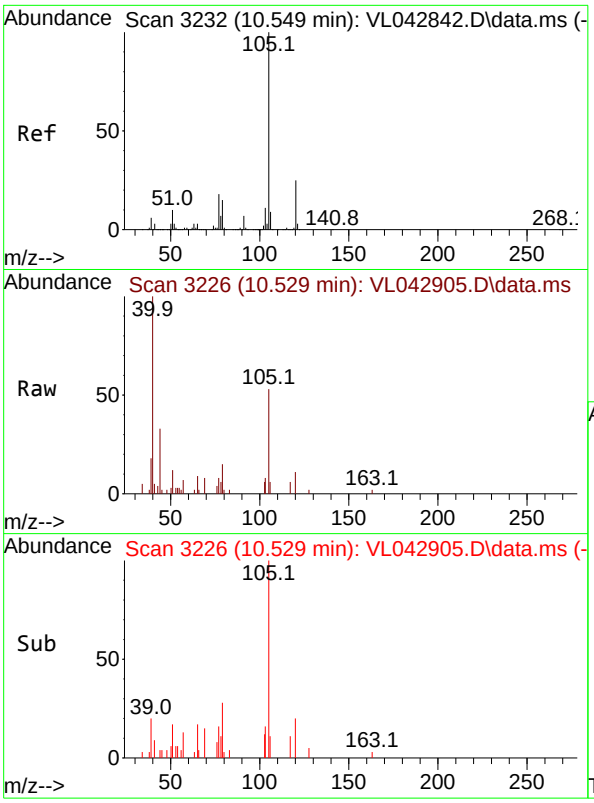


#61
Styrene
Concen: 0.071 ppbv
RT: 9.866 min Scan# 3021
Delta R.T. 0.006 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion:104 Resp: 1409

Ion	Ratio	Lower	Upper
104	100		
78	0.0	40.6	61.0#
103	44.3	37.7	56.5



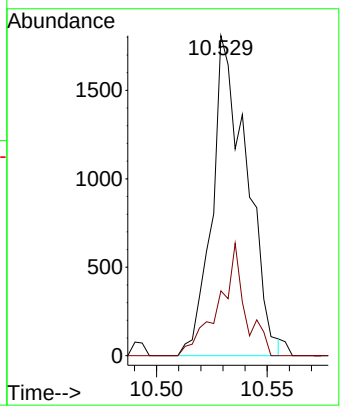


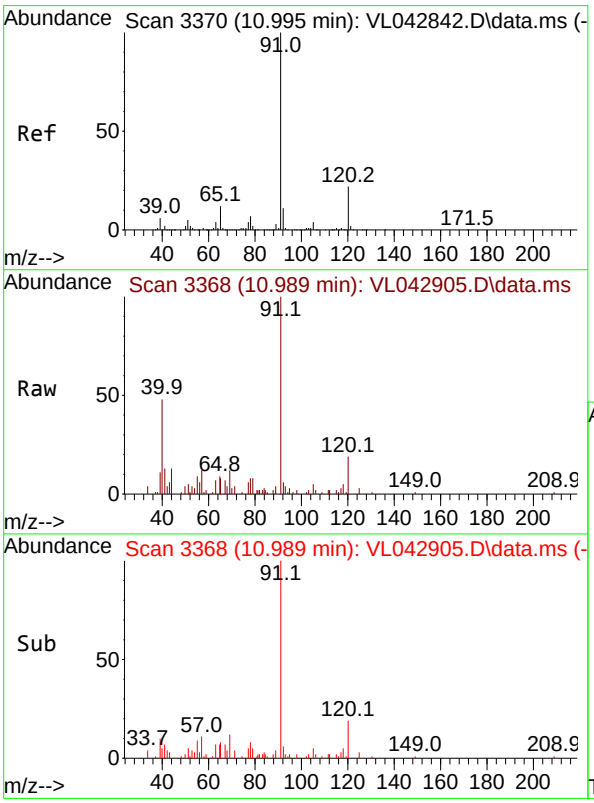
#62
Isopropylbenzene
Concen: 0.032 ppbv
RT: 10.529 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Tgt Ion:105 Resp: 1966

Ion	Ratio	Lower	Upper
105	100		
120	26.9	20.6	30.8

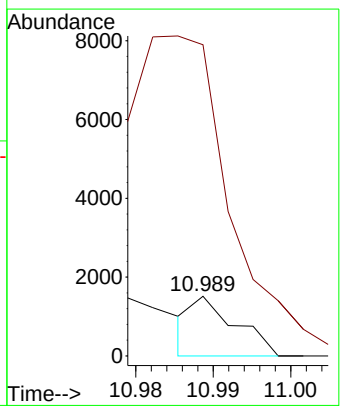


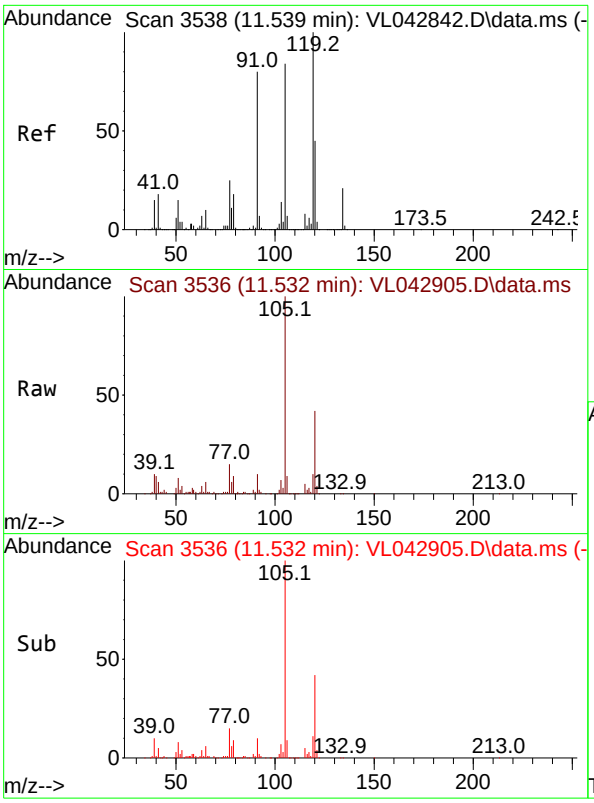


#64
n-propylbenzene
Concen: 0.037 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. 0.010 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion:120 Resp: 589

Ion	Ratio	Lower	Upper
120	100		
91	1611.9	375.8	563.6#



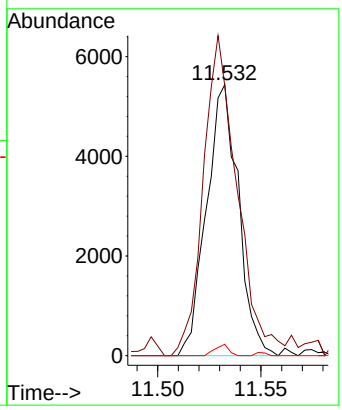


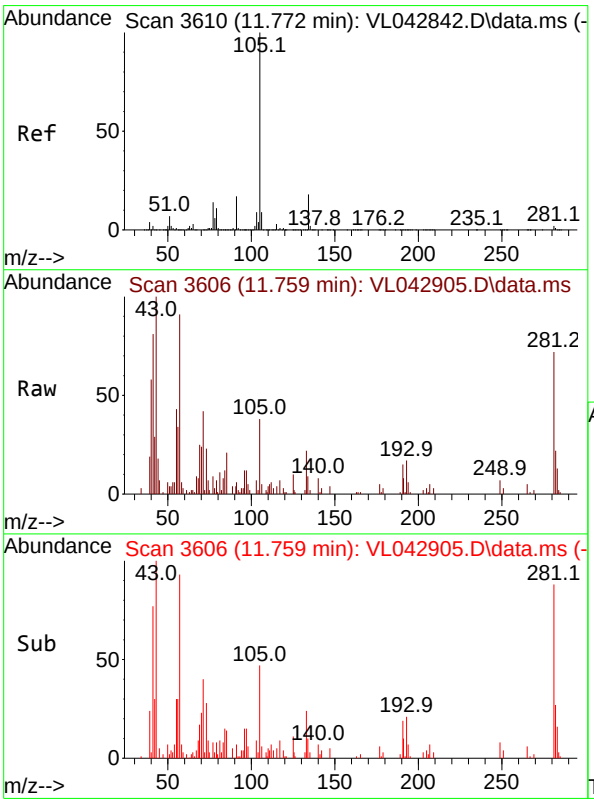
#65
tert-Butylbenzene
Concen: 0.108 ppbv
RT: 11.532 min Scan# 3
Delta R.T. 0.010 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Tgt Ion:119 Resp: 5846

Ion	Ratio	Lower	Upper
119	100		
91	129.6	63.9	95.9#
134	2.2	17.0	25.4#

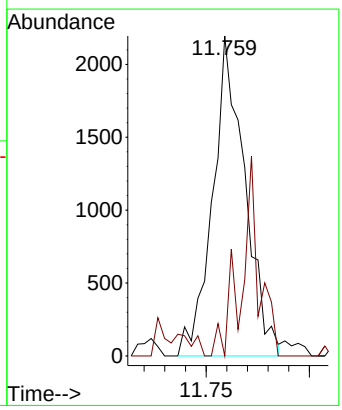


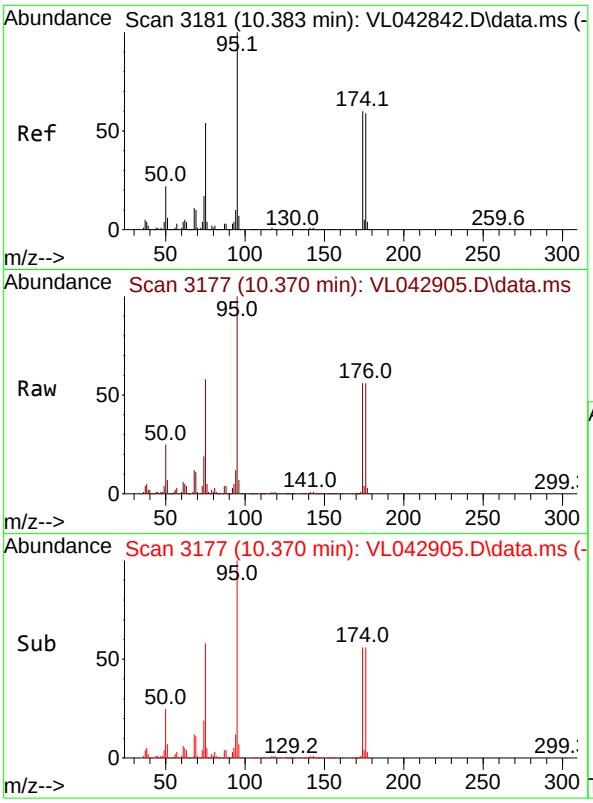


#67
sec-Butylbenzene
Concen: 0.031 ppbv
RT: 11.759 min Scan# 3606
Delta R.T. -0.000 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion:105 Resp: 2374

Ion	Ratio	Lower	Upper
105	100		
134	42.0	14.9	22.3#



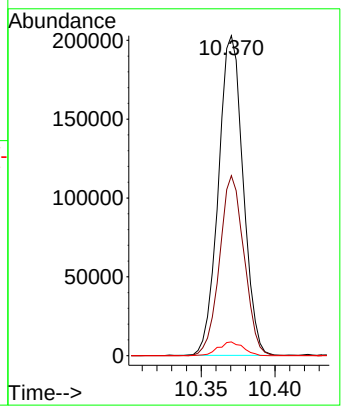


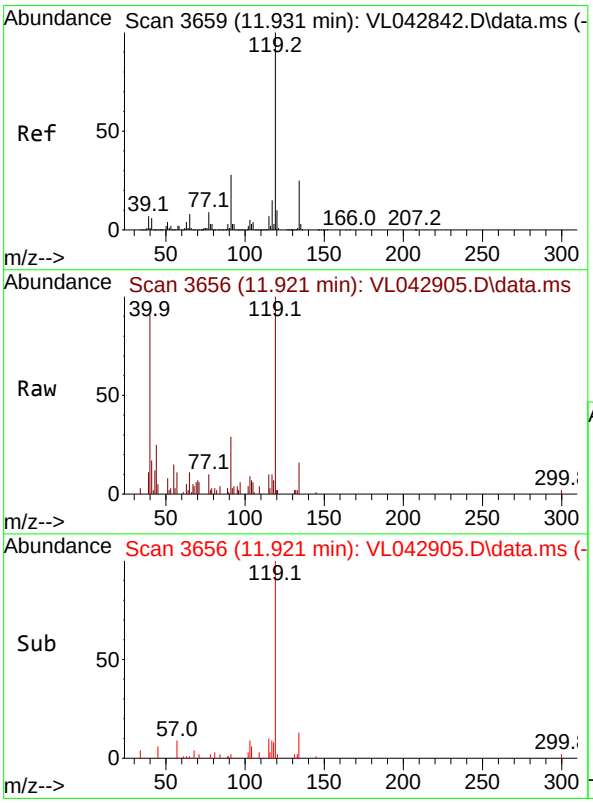
#68
1-Bromo-4-Fluorobenzene
Concen: 10.380 ppbv
RT: 10.370 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Tgt Ion: 95 Resp: 235889

Ion	Ratio	Lower	Upper
95	100		
174	56.1	48.4	72.6
175	4.4	3.8	5.8

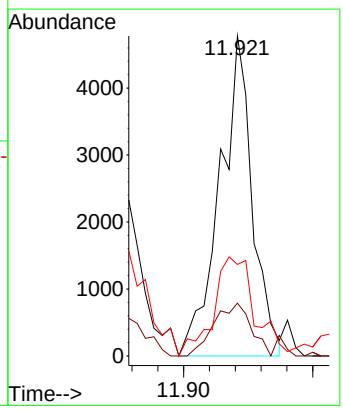


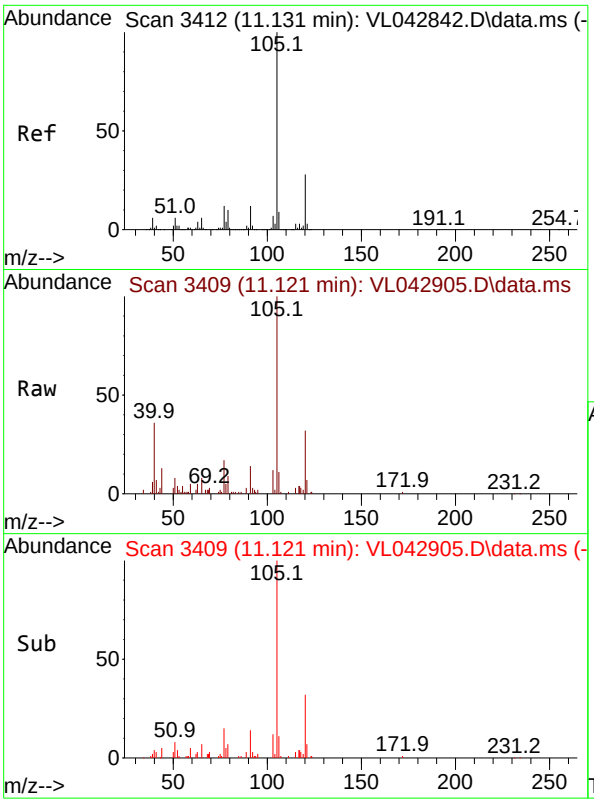


#69
p-Isopropyltoluene
Concen: 0.064 ppbv
RT: 11.921 min Scan# 3656
Delta R.T. 0.003 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion:119 Resp: 4177

Ion	Ratio	Lower	Upper
119	100		
134	21.0	20.6	30.8
91	43.0	22.6	34.0#



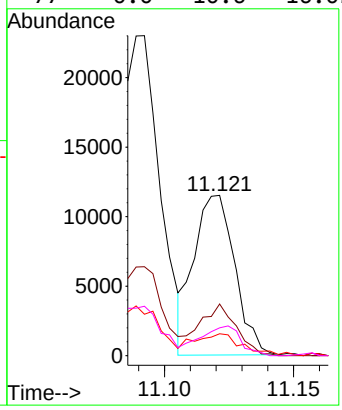


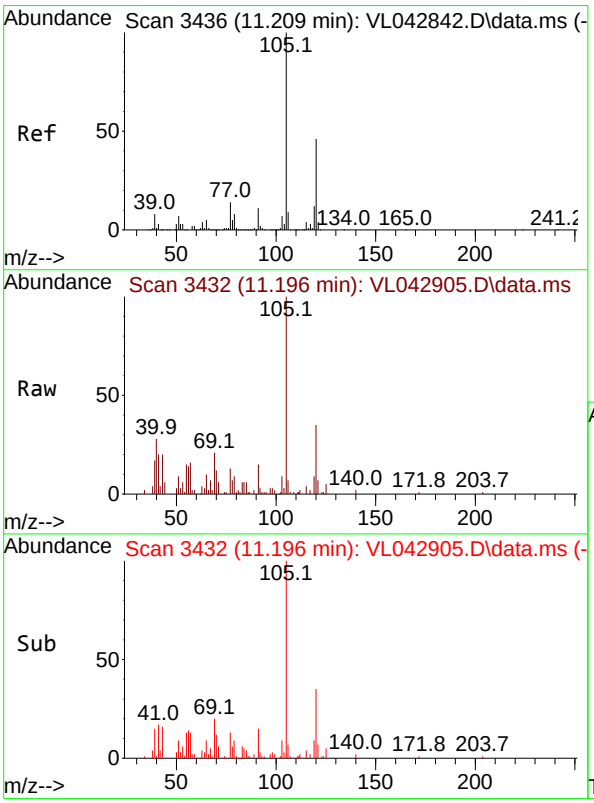
#72
4-Ethyltoluene
Concen: 0.248 ppbv
RT: 11.121 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Tgt Ion:105 Resp: 12693

Ion	Ratio	Lower	Upper
105	100		
120	0.0	23.4	35.2#
91	0.0	9.8	14.6#
77	0.0	10.6	16.0#

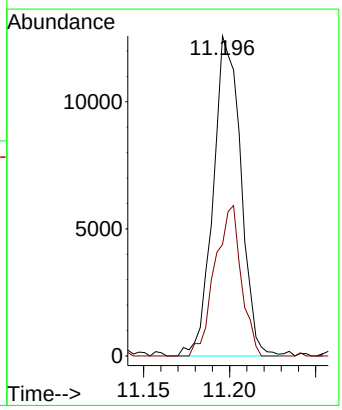


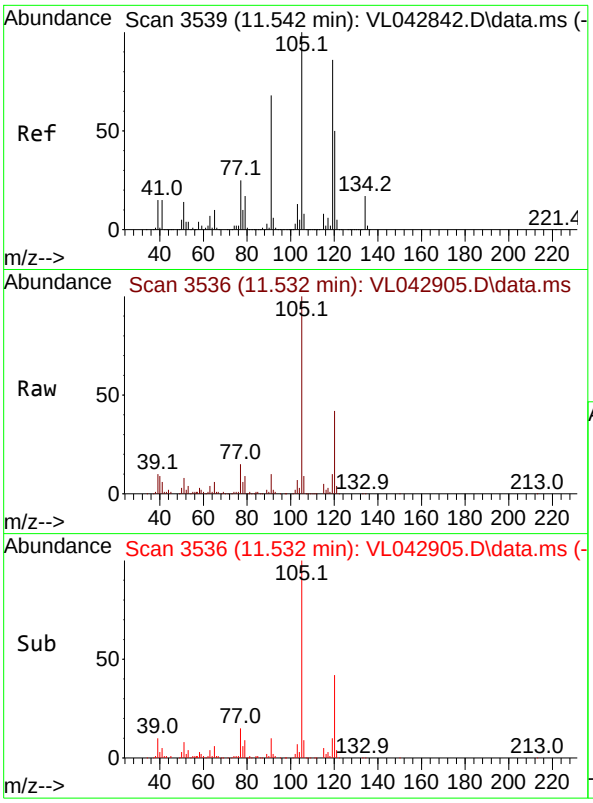


#73
1,3,5-Trimethylbenzene
Concen: 0.324 ppbv
RT: 11.196 min Scan# 3432
Delta R.T. -0.000 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion:105 Resp: 14080

Ion	Ratio	Lower	Upper
105	100		
120	34.8	36.6	54.8#





#74
1,2,4-Trimethylbenzene
Concen: 1.124 ppbv
RT: 11.532 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Tgt Ion:105 Resp: 53636

Ion	Ratio	Lower	Upper
105	100		
120	42.0	39.8	59.6
91	10.5	54.2	81.4#
77	15.2	19.8	29.6#

