

Cover Page

Order ID : Q3247

Project ID : NJ AIR PT

Client : Alliance Technical Group, LLC - Newark

Lab Sample Number

Q3247-01

Client Sample Number

RR-VOAS-AIR

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: 11/8/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



SHIPPING DOCUMENTS



phenova®
Certified Reference Materials

A Phenomenex®
Company

Packing List

6390 Joyce Dr., #100
Golden, CO 80403

Tel: +1-303-940-0033
Fax: +1-303-940-0043
info@phenova.com
www.phenova.com

For terms and conditions of your order, please visit:
www.phenova.com/home/termsofsale

Date	Order #
09/29/2025	340427



Ship To

Alliance Tech Group - Newark
ATTN: Sohil Jodhani
284 Sheffield St., #1
Mountainside, NJ 07092
USA

Received by: SJ

9/30/2025 9:45

Customer PO #	Terms	PT Acct #	Customer #	Ship Via	F.O.B.
PO2-3628	Net 30	ZCM-100	1500470	FedEx Priority	Golden, CO

Qty Ordered	Qty Shipped	Qty Backorder	Part Number	Part Description	Study Number	Lot Number
1	1	0	RR-VOAS-AIR	Air Volatiles/Summa Canister	R42016	R42016-23

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



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

CASE NARRATIVE

Alliance Technical Group, LLC - Newark

Project Name: NJ AIR PT

Project # N/A

Order ID # Q3247

Test Name: VOCMS Group3

A. Number of Samples and Date of Receipt:

1 Air sample was received on 09/30/2025.

B. Parameters

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

C. Analytical Techniques:

The analysis performed on instrument MSVOA_L were done using GC column RTX-1, which is 60 meters, 0.32 mm id, 1.0 um df, Restek Cat. #10157. The Trap was supplied by Entech, glass bead and Tenax , Entech 7100A Preconcentrator. The analysis of VOCMS Group3 was based on method TO-15.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries were met for all analysis.

The Internal Standards Areas were met for all analysis.

The Retention Times were met for all analysis.

The RPD were met for all analysis.

The Blank Spike met requirements for all compounds.

The Blank Spike Duplicate 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.

Sample RR-VOAS-AIR was diluted due to high concentration.

E. Additional Comments:

The not QT review data is reported in the Miscellaneous.

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

F. Manual Integration Comments:

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



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

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

Signature_____

DATA REPORTING QUALIFIERS- ORGANIC

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

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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q3247

Completed

For thorough review, the report must have the following:

GENERAL:

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

✓

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

✓

Is the chain of custody signed and complete

✓

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

✓

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

✓

COVER PAGE:

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

✓

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

✓

CHAIN OF CUSTODY:

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

✓

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

✓

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

✓

Were the samples received within hold time

✓

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

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 11/10/2025

LAB CHRONICLE

OrderID:	Q3247	OrderDate:	9/30/2025 9:46:00 AM
Client:	Alliance Technical Group, LLC - Newark	Project:	NJ AIR PT
Contact:	Mohammad Ahmed	Location:	VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3247-01	RR-VOAS-AIR	Air	VOCMS Group3	TO-15	09/29/25		10/15/25	09/30/25
Q3247-01DL	RR-VOAS-AIRDL	Air	VOCMS Group3	TO-15	09/29/25		10/15/25	09/30/25



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

Hit Summary Sheet
SW-846

SDG No.: Q3247

Client: Alliance Technical Group, LLC - Newark

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID: Q3247-01	RR-VOAS-AIR RR-VOAS-AIR	Air	m/p-Xylene	220	E	1.78	4.34	ug/m3
			Total Voc :	220				
			Total Concentration:	220				
Client ID: Q3247-01DL	RR-VOAS-AIRDL RR-VOAS-AIRDL	Air	m/p-Xylene	245	D	3.56	8.69	ug/m3
			Total Voc :	245				
			Total Concentration:	245				



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

Project : NJ AIR PT

Sampling Date : 09/29/25

Field Id Number : RR-VOAS-AIR

Analysis Date : 10/15/25

Laboratory Id Number : Q3247-01

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Chloroethane	75-00-3	64.52	0.15	U	0.4		
Heptane	142-82-5	100.2	0.17	U	0.7		
Bromodichloromethane	75-27-4	163.8	0.06	U	0.4		
m/p-Xylene	179601-23-1	106.2	50.7	E	220		



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

Project : NJ AIR PT

Sampling Date : 09/29/25

Field Id Number : RR-VOAS-AIRDL

Analysis Date : 10/15/25

Laboratory Id Number : Q3247-01DL

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Chloroethane	75-00-3	64.52	0.3	UD	0.79		
Heptane	142-82-5	100.2	0.34	UD	1.39		
Bromodichloromethane	75-27-4	163.8	0.13	UD	0.87		
m/p-Xylene	179601-23-1	106.2	56.3	D	244		

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

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



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

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



QC SUMMARY

Surrogate Summary

SDG No.: Q3247

Client: Alliance Technical Group, LLC - Newark

Analytical Method: SWTO-15

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
							Low	High
Q3247-01	RR-VOAS-AIR	1-Bromo-4-Fluorobenzene	10	10.4	104		65	135
Q3247-01DL	RR-VOAS-AIRDL	1-Bromo-4-Fluorobenzene	10	10.6	106		65	135
VL1015ABL01	VL1015ABL01	1-Bromo-4-Fluorobenzene	10	10.1	101		65	135
VL1015ABS01	VL1015ABS01	1-Bromo-4-Fluorobenzene	10	10.3	103		65	135
VL1015ABSD01	VL1015ABSD01	1-Bromo-4-Fluorobenzene	10	10.5	105		65	135

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3247</u>	Analytical Method:	<u>SWTO-15</u>
Client:	<u>Alliance Technical Group, LLC - New</u>	Datafile :	<u>VL043116.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL1015ABS01	Chloroethane	10	9.10	ppbv	91			70	130	
	Heptane	10	8.20	ppbv	82			70	130	
	Bromodichloromethane	10	9.90	ppbv	99			70	130	
	m/p-Xylene	20	18.3	ppbv	92			70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3247</u>	Analytical Method:	<u>SWTO-15</u>
Client:	<u>Alliance Technical Group, LLC - New</u>	Datafile :	<u>VL043122.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL1015ABSD01	Chloroethane	10	9.70	ppbv	97	6		70	130	25
	Heptane	10	8.20	ppbv	82	0		70	130	25
	Bromodichloromethane	10	10.6	ppbv	106	7		70	130	25
	m/p-Xylene	20	19.6	ppbv	98	6		70	130	25

VOLATILE METHOD BLANK SUMMARY

Client ID

VL1015ABL01

Lab Name: Alliance

Contract: ALLI03

Lab Code: ACE

SDG NO.: Q3247

Lab File ID: VL043115.D

Lab Sample ID: VL1015ABL01

Date Analyzed: 10/15/2025

Time Analyzed: 09:34

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
VL1015ABS01	VL1015ABS01	VL043116.D	10/15/2025
RR-VOAS-AIR	Q3247-01	VL043117.D	10/15/2025
RR-VOAS-AIRDL	Q3247-01DL	VL043119.D	10/15/2025
VL1015ABSD01	VL1015ABSD01	VL043122.D	10/15/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: ALLI03

Lab Code: ACE

SDG NO.: Q3247

Lab File ID: VL043103.D

BFB Injection Date: 10/14/2025

Instrument ID: MSVOA_L

BFB Injection Time: 08:42

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	21.9
75	30.0 - 66.0% of mass 95	53.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 120.0% of mass 95	61.7
175	4.0 - 9.0% of mass 174	4.8 (7.8) 1
176	93.0 - 101.0% of mass 174	59.6 (96.5) 1
177	5.0 - 9.0% of mass 176	3.9 (6.6) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICCC010	VSTDICCC010	VL043105.D	10/14/2025	10:31
VSTDICCC002	VSTDICCC002	VL043106.D	10/14/2025	11:27
VSTDICCC001	VSTDICCC001	VL043107.D	10/14/2025	12:01
VSTDICCC0.5	VSTDICCC0.5	VL043108.D	10/14/2025	12:34
VSTDICCC0.1	VSTDICCC0.1	VL043109.D	10/14/2025	13:08
VSTDICCC0.03	VSTDICCC0.03	VL043110.D	10/14/2025	13:42
VSTDICCC015	VSTDICCC015	VL043111.D	10/14/2025	14:18

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: ALLI03

Lab Code: ACE

SDG NO.: Q3247

Lab File ID: VL043113.D

BFB Injection Date: 10/15/2025

Instrument ID: MSVOA_L

BFB Injection Time: 07:45

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

Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	22.9
75	30.0 - 66.0% of mass 95	57.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.7 (1.2) 1
174	50.0 - 120.0% of mass 95	58.4
175	4.0 - 9.0% of mass 174	4.3 (7.4) 1
176	93.0 - 101.0% of mass 174	56.7 (97.2) 1
177	5.0 - 9.0% of mass 176	3.9 (6.9) 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	VL043114.D	10/15/2025	08:43
VL1015ABL01	VL1015ABL01	VL043115.D	10/15/2025	09:34
VL1015ABS01	VL1015ABS01	VL043116.D	10/15/2025	10:15
RR-VOAS-AIR	Q3247-01	VL043117.D	10/15/2025	10:50
RR-VOAS-AIRDL	Q3247-01DL	VL043119.D	10/15/2025	12:12
VL1015ABSD01	VL1015ABSD01	VL043122.D	10/15/2025	15:57

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: ALLI03
 Lab Code: ACE SDG NO.: Q3247
 Lab File ID: VL043114.D Date Analyzed: 10/15/2025
 Instrument ID: MSVOA_L Time Analyzed: 08:43
 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	98213	2.79	316115	3.96	288868	8.89
UPPER LIMIT	137498	3.12	442561	4.29	404415	9.22
LOWER LIMIT	58927.8	2.46	189669	3.63	173321	8.56
EPA SAMPLE NO.						
RR-VOAS-AIR	93140	2.79	301002	3.97	265788	8.89
RR-VOAS-AIRDL	89788	2.79	289768	3.97	254747	8.89
VL1015ABL01	94939	2.79	308682	3.96	273385	8.88
VL1015ABS01	93836	2.79	302461	3.96	271209	8.89
VL1015ABSD01	91615	2.79	294311	3.97	260330	8.89

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

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

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



SAMPLE DATA

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	09/29/25
Project:	NJ AIR PT	Date Received:	09/30/25
Client Sample ID:	RR-VOAS-AIR	SDG No.:	Q3247
Lab Sample ID:	Q3247-01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400 mL		

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
TARGETS									
75-00-3	Chloroethane	0.15	0.40	U	1	0.40	1.32	10/15/25 10:50	VL101525
142-82-5	Heptane	0.17	0.70	U	1	0.70	2.05	10/15/25 10:50	VL101525
75-27-4	Bromodichloromethane	0.060	0.40	U	1	0.40	3.35	10/15/25 10:50	VL101525
179601-23-1	m/p-Xylene	50.7	220	E	1	1.78	4.34	10/15/25 10:50	VL101525
SURROGATES									
460-00-4	1-Bromo-4-Fluorobenzene	10.4				65 - 135	104% SPK: 10		
INTERNAL STANDARDS									
		Area Count							
74-97-5	Bromochloromethane	93100							
540-36-3	1,4-Difluorobenzene	301000							
3114-55-4	Chlorobenzene-d5	266000							

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101525\
 Data File : VL043117.D
 Acq On : 15 Oct 2025 10:50
 Operator : SY/MD
 Sample : Q3247-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 RR-VOAS-AIR

Quant Time: Oct 16 01:15:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 02:12:58 2025
 Response via : Initial Calibration

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

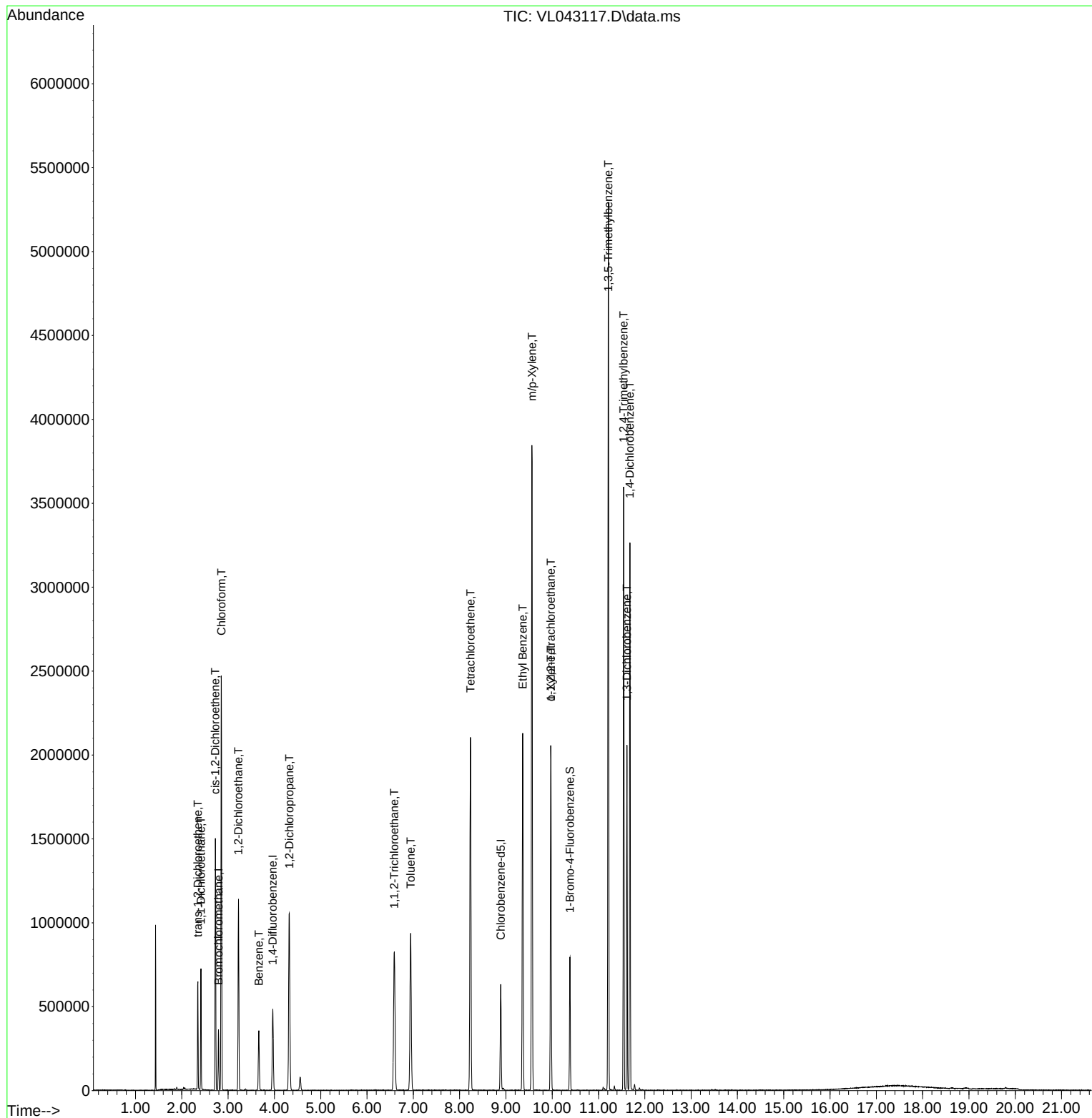
Internal Standards							
1) Bromochloromethane		2.794	49	93140	10.000	ppbv	0.00
33) 1,4-Difluorobenzene		3.965	114	301002	10.000	ppbv	0.00
55) Chlorobenzene-d5		8.888	117	265788	10.000	ppbv	0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene		10.383	95	214126	10.365	ppbv	0.00
Spiked Amount		10.000	Range 65 - 135		Recovery	= 103.600%	
Target Compounds							
							Qvalue
22) trans-1,2-Dichloroethene		2.347	96	99446	18.300	ppbv	96
24) 1,1-Dichloroethane		2.415	63	320432	30.520	ppbv	98
29) Chloroform		2.855	83	1039307	50.002	ppbv	98
31) cis-1,2-Dichloroethene		2.726	61	478426	34.926	ppbv	97
36) Benzene		3.664	78	224626	7.923	ppbv	99
37) 1,2-Dichloroethane		3.224	62	652213	39.936	ppbv	97
39) 1,2-Dichloropropane		4.321	63	321440	31.014	ppbv	92
47) 1,1,2-Trichloroethane		6.587	97	293124	26.190	ppbv	96
52) Tetrachloroethene		8.234	164	371165	36.306	ppbv	92
53) Toluene		6.943	91	716914	21.307	ppbv	100
58) Ethyl Benzene		9.364	91	1287080	28.216	ppbv	97
59) m/p-Xylene		9.561	91	1843103	50.659	ppbv	99
60) o-Xylene		9.969	91	467143	13.000	ppbv	99
63) 1,1,2,2-Tetrachloroethane		9.969	83	400302	16.637	ppbv	99
73) 1,3,5-Trimethylbenzene		11.212	105	2075108	56.947	ppbv	100
74) 1,2,4-Trimethylbenzene		11.542	105	1418707	34.791	ppbv #	51
75) 1,3-Dichlorobenzene		11.613	146	484752	20.496	ppbv	98
76) 1,4-Dichlorobenzene		11.678	146	771622	32.356	ppbv	98

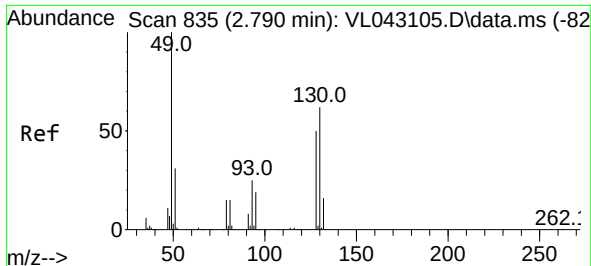
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101525\
Data File : VL043117.D
Acq On : 15 Oct 2025 10:50
Operator : SY/MD
Sample : Q3247-01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
RR-VOAS-AIR

Quant Time: Oct 16 01:15:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 2.794 min Scan# 81

Delta R.T. 0.004 min

Lab File: VL043117.D

Acq: 15 Oct 2025 10:50

Instrument :

MSVOA_L

ClientSampleId :

RR-VOAS-AIR

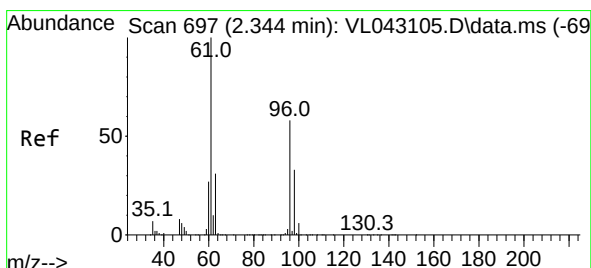
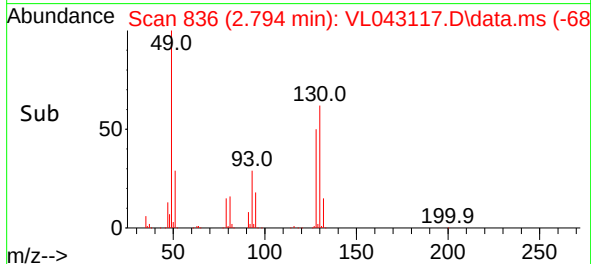
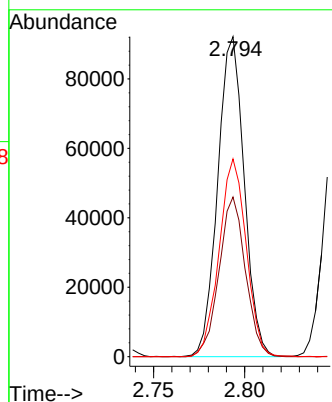
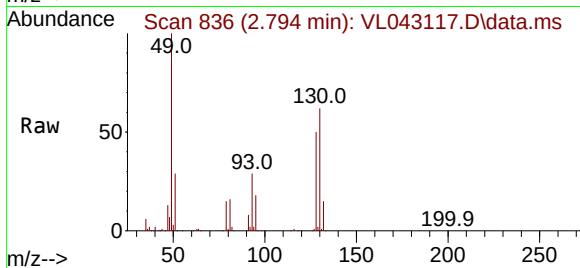
Tgt Ion: 49 Resp: 93140

Ion Ratio Lower Upper

49 100

128 49.7 24.4 73.4

130 63.3 31.0 93.0



#22

trans-1,2-Dichloroethene

Concen: 18.300 ppbv

RT: 2.347 min Scan# 698

Delta R.T. 0.003 min

Lab File: VL043117.D

Acq: 15 Oct 2025 10:50

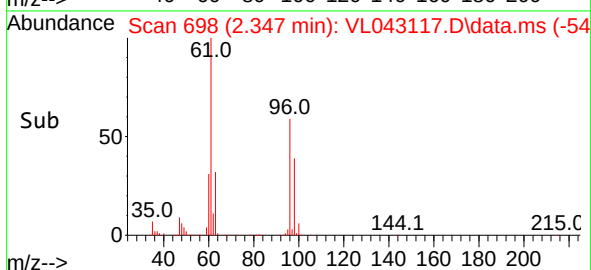
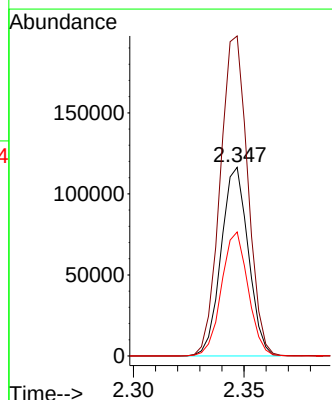
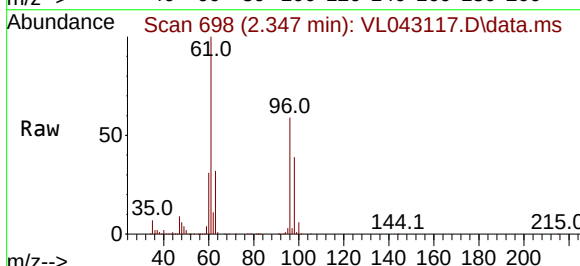
Tgt Ion: 96 Resp: 99446

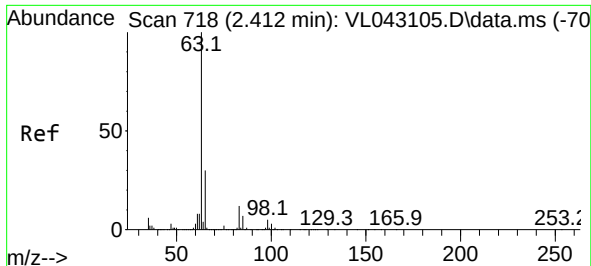
Ion Ratio Lower Upper

96 100

61 169.6 137.0 205.6

98 65.7 45.5 68.3

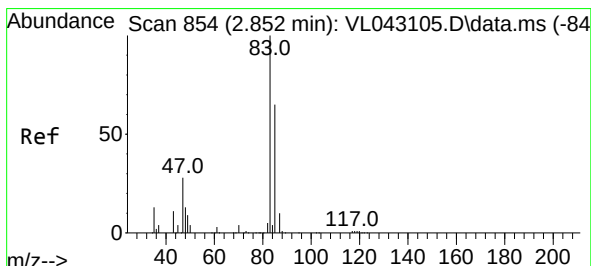
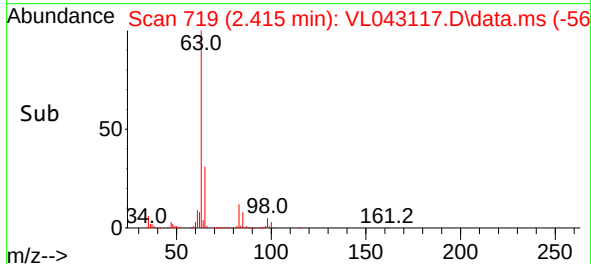
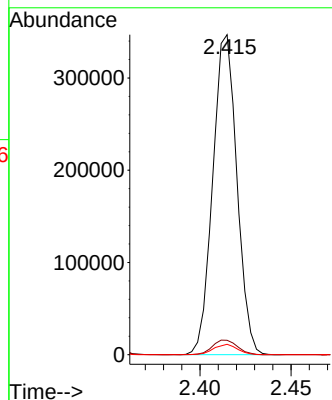
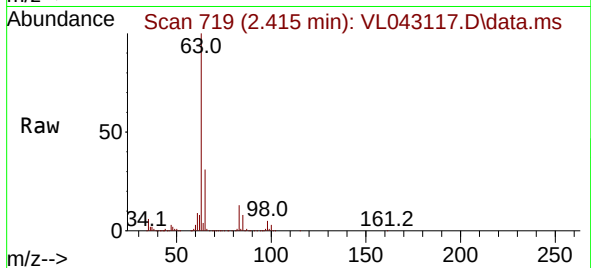




#24
 1,1-Dichloroethane
 Concen: 30.520 ppbv
 RT: 2.415 min Scan# 718
 Delta R.T. 0.003 min
 Lab File: VL043117.D
 Acq: 15 Oct 2025 10:50

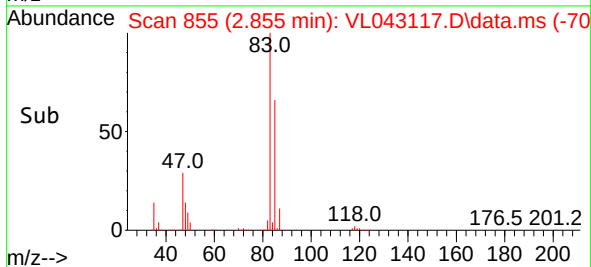
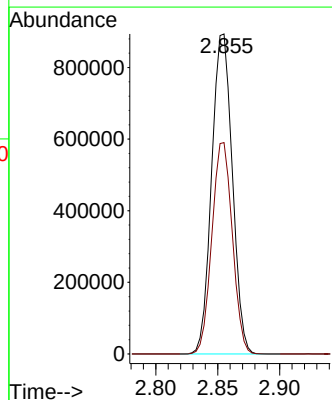
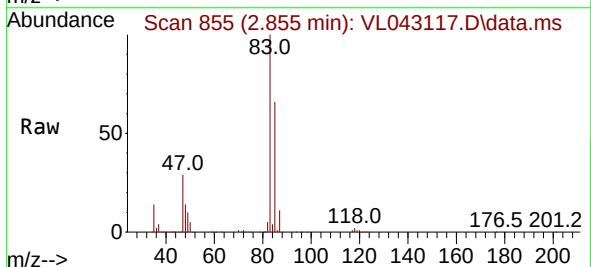
Instrument :
 MSVOA_L
 ClientSampleId :
 RR-VOAS-AIR

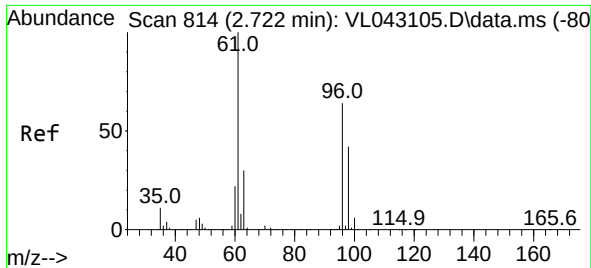
Tgt Ion: 63 Resp: 320432
 Ion Ratio Lower Upper
 63 100
 98 4.5 2.6 7.8
 100 3.2 1.5 4.4



#29
 Chloroform
 Concen: 50.002 ppbv
 RT: 2.855 min Scan# 855
 Delta R.T. 0.003 min
 Lab File: VL043117.D
 Acq: 15 Oct 2025 10:50

Tgt Ion: 83 Resp: 1039307
 Ion Ratio Lower Upper
 83 100
 85 66.1 51.8 77.6

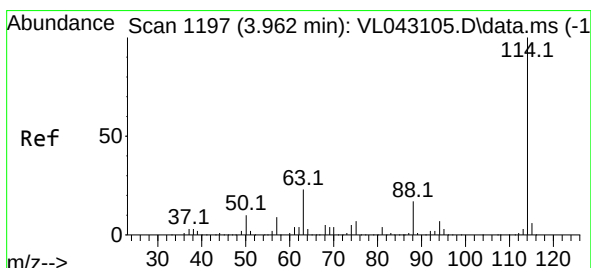
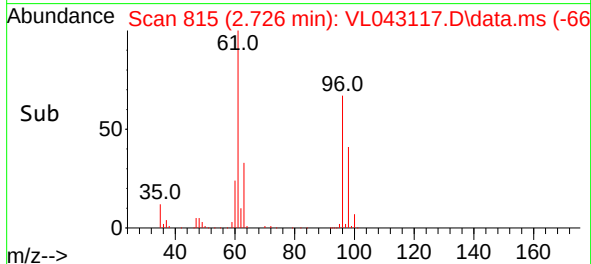
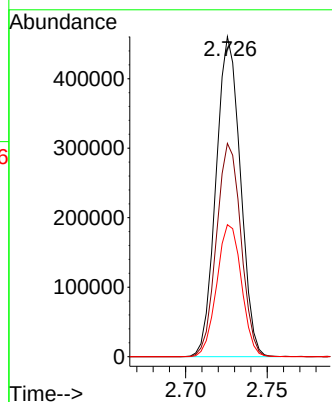
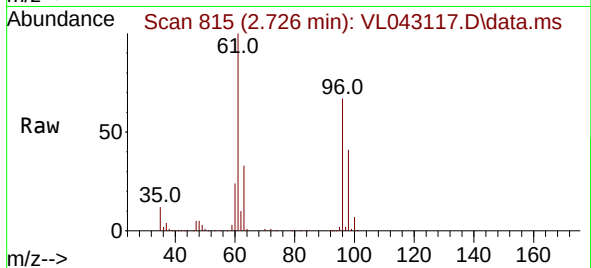




#31
 cis-1,2-Dichloroethene
 Concen: 34.926 ppbv
 RT: 2.726 min Scan# 814
 Delta R.T. 0.003 min
 Lab File: VL043117.D
 Acq: 15 Oct 2025 10:50

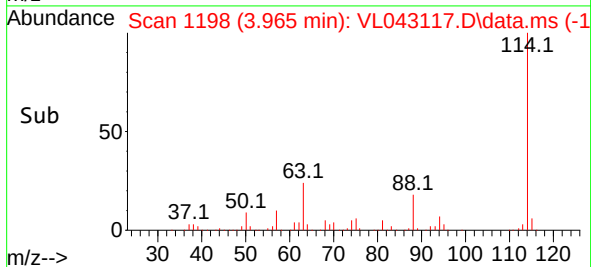
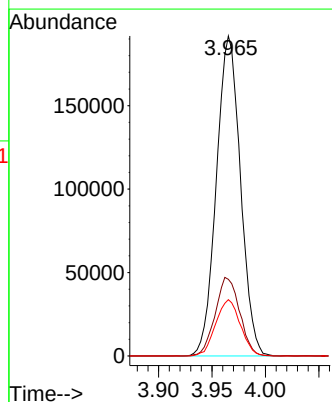
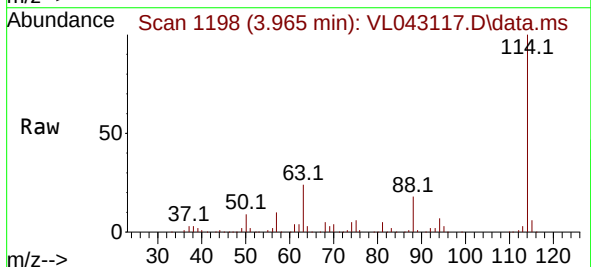
Instrument :
 MSVOA_L
 ClientSampleId :
 RR-VOAS-AIR

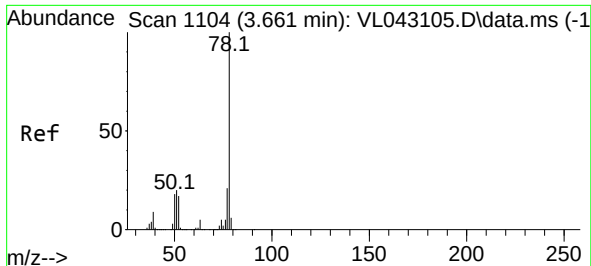
Tgt Ion: 61 Resp: 478426
 Ion Ratio Lower Upper
 61 100
 96 66.7 51.0 76.6
 98 41.2 33.5 50.3



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.965 min Scan# 1198
 Delta R.T. 0.003 min
 Lab File: VL043117.D
 Acq: 15 Oct 2025 10:50

Tgt Ion: 114 Resp: 301002
 Ion Ratio Lower Upper
 114 100
 63 24.9 19.3 28.9
 88 18.0 13.9 20.9

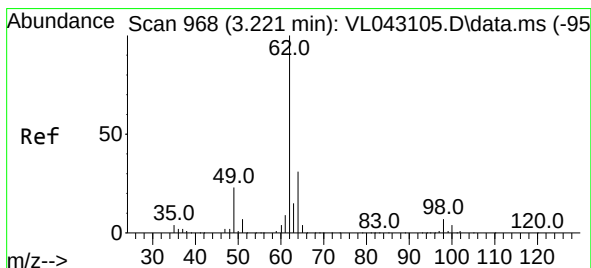
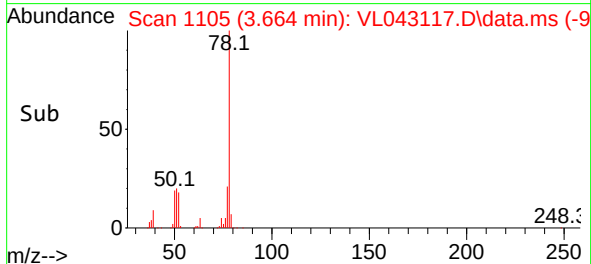
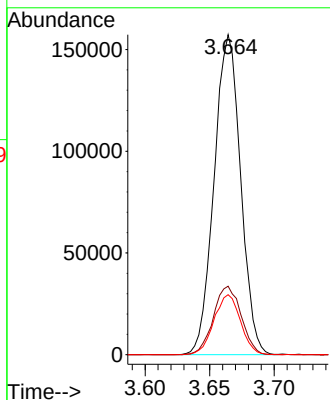
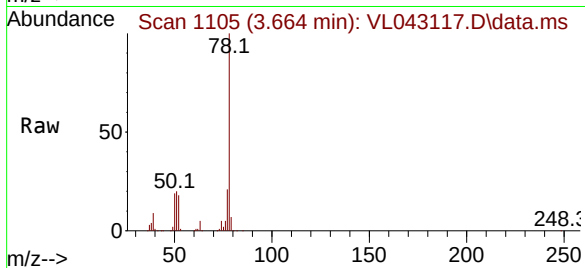




#36
Benzene
Concen: 7.923 ppbv
RT: 3.664 min Scan# 1104
Delta R.T. 0.003 min
Lab File: VL043117.D
Acq: 15 Oct 2025 10:50

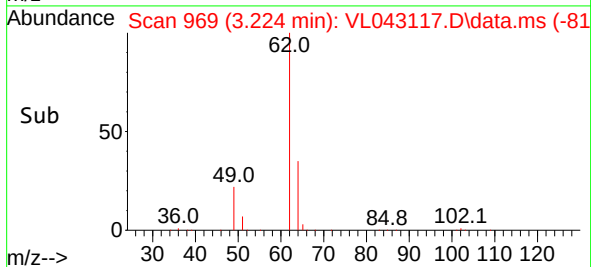
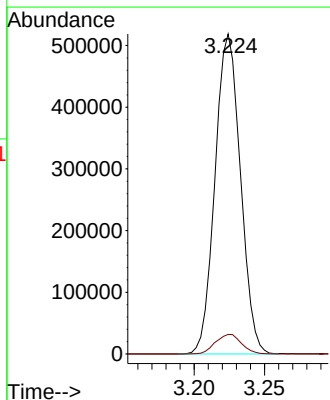
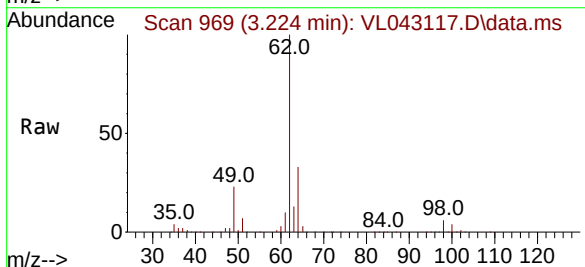
Instrument :
MSVOA_L
ClientSampleId :
RR-VOAS-AIR

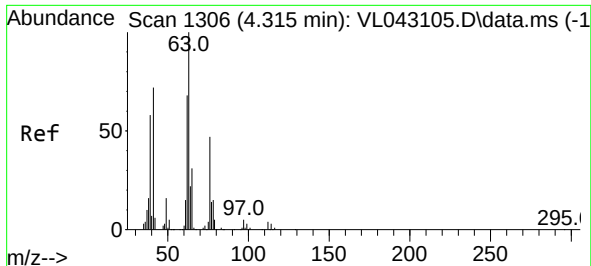
Tgt Ion: 78 Resp: 224626
Ion Ratio Lower Upper
78 100
77 21.3 17.0 25.6
50 18.7 14.6 22.0



#37
1,2-Dichloroethane
Concen: 39.936 ppbv
RT: 3.224 min Scan# 969
Delta R.T. 0.003 min
Lab File: VL043117.D
Acq: 15 Oct 2025 10:50

Tgt Ion: 62 Resp: 652213
Ion Ratio Lower Upper
62 100
98 6.3 5.8 8.6





#39

1,2-Dichloropropane

Concen: 31.014 ppbv

RT: 4.321 min Scan# 11

Delta R.T. 0.006 min

Lab File: VL043117.D

Acq: 15 Oct 2025 10:50

Instrument :

MSVOA_L

ClientSampleId :

RR-VOAS-AIR

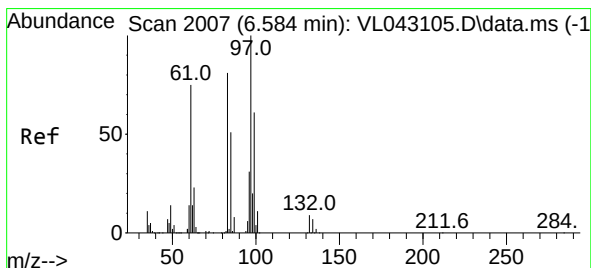
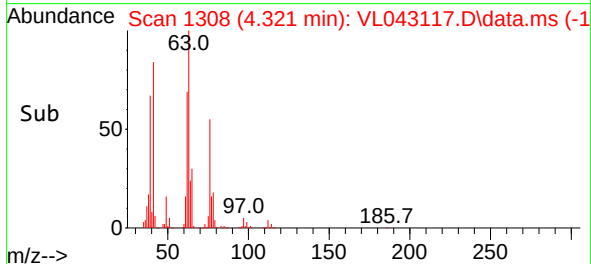
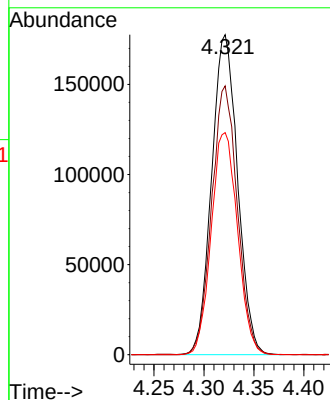
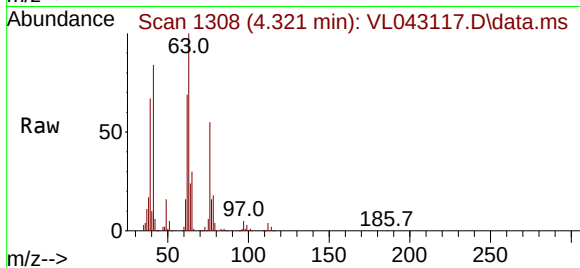
Tgt Ion: 63 Resp: 321440

Ion Ratio Lower Upper

63 100

41 84.0 58.0 87.0

62 69.3 54.7 82.1



#47

1,1,2-Trichloroethane

Concen: 26.190 ppbv

RT: 6.587 min Scan# 2008

Delta R.T. 0.003 min

Lab File: VL043117.D

Acq: 15 Oct 2025 10:50

Tgt Ion: 97 Resp: 293124

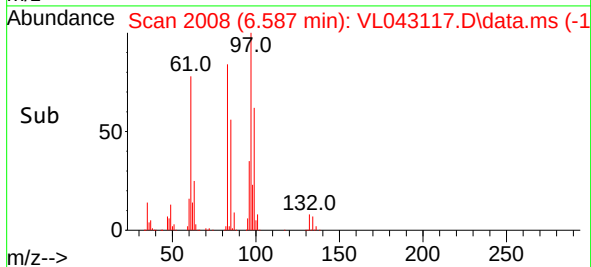
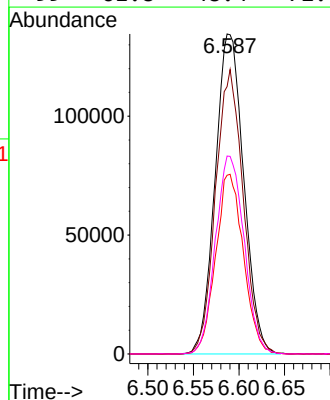
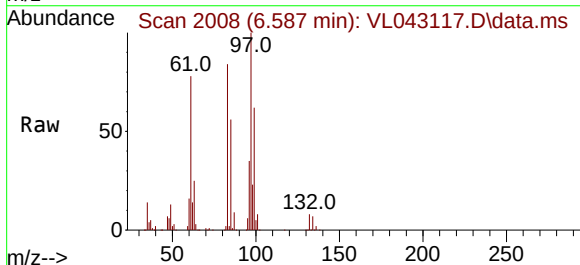
Ion Ratio Lower Upper

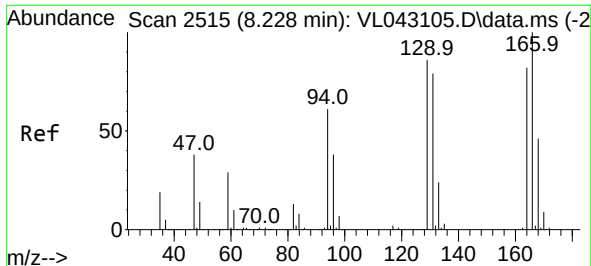
97 100

83 83.5 64.6 96.8

85 55.9 40.6 60.8

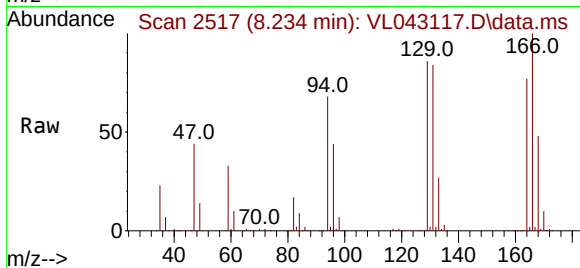
99 61.8 48.4 72.6



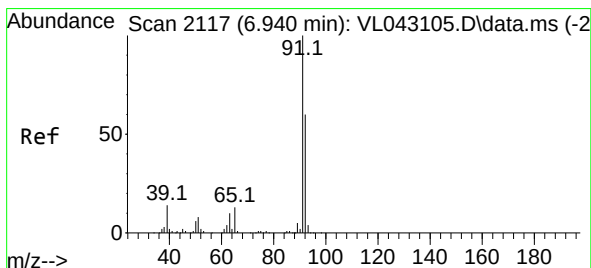
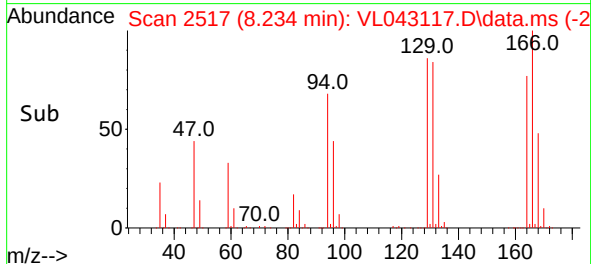
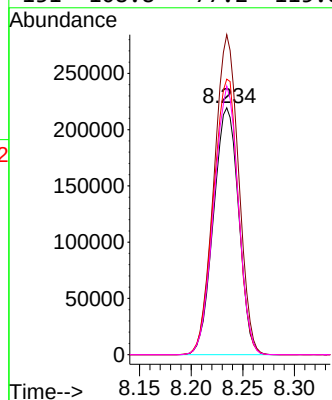


#52
Tetrachloroethene
Concen: 36.306 ppbv
RT: 8.234 min Scan# 2117
Delta R.T. 0.006 min
Lab File: VL043117.D
Acq: 15 Oct 2025 10:50

Instrument :
MSVOA_L
ClientSampleId :
RR-VOAS-AIR

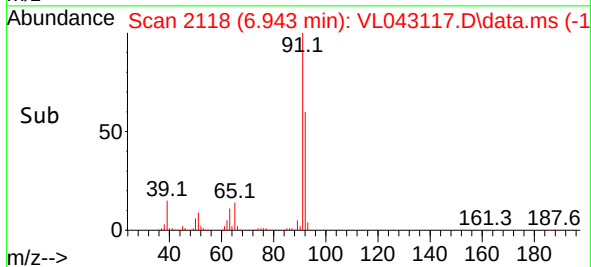
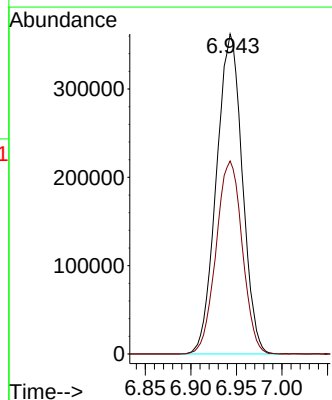
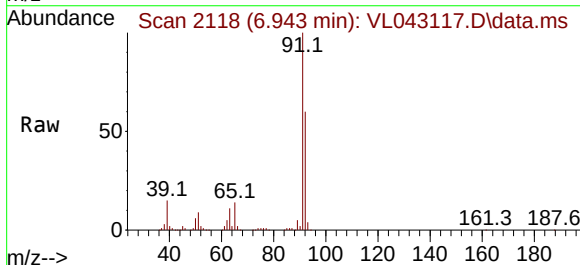


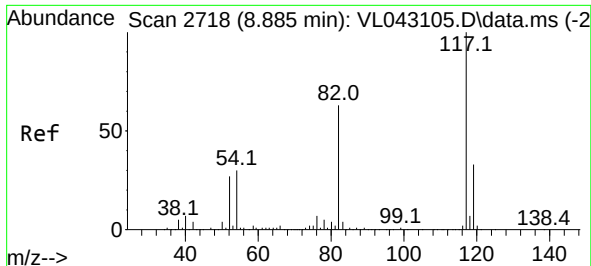
Tgt Ion	Ratio	Lower	Upper
164	100		
166	129.6	97.6	146.4
129	111.6	84.5	126.7
131	108.8	77.2	115.8



#53
Toluene
Concen: 21.307 ppbv
RT: 6.943 min Scan# 2118
Delta R.T. 0.003 min
Lab File: VL043117.D
Acq: 15 Oct 2025 10:50

Tgt Ion	Ratio	Lower	Upper
91	100		
92	61.0	48.8	73.2

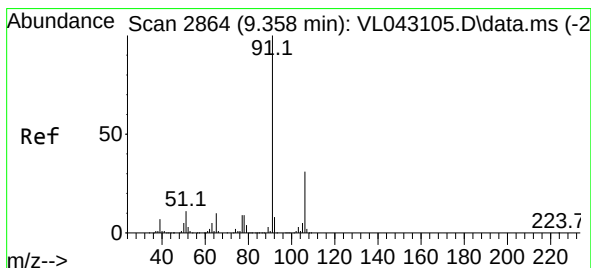
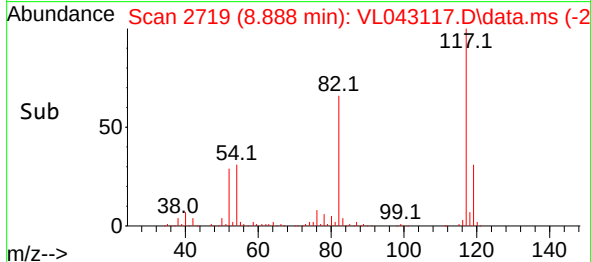
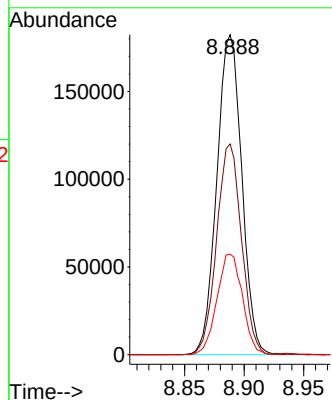
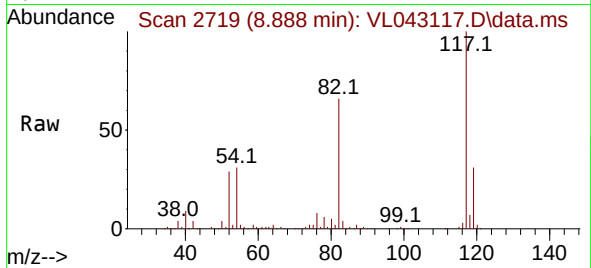




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL043117.D
Acq: 15 Oct 2025 10:50

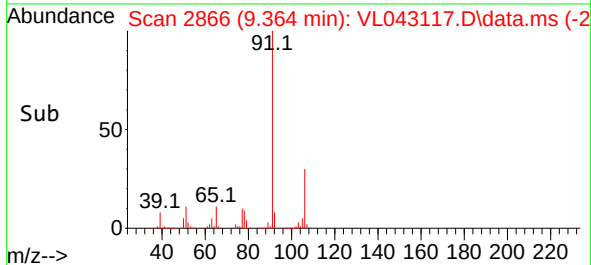
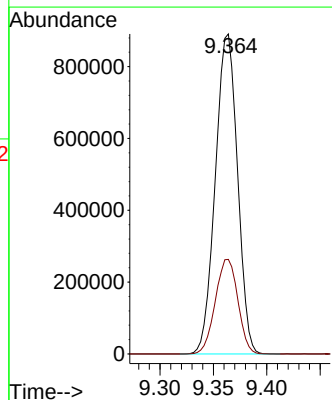
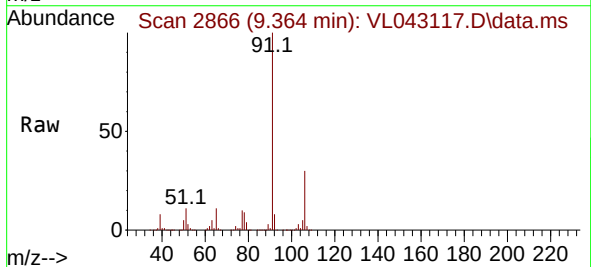
Instrument :
MSVOA_L
ClientSampleId :
RR-VOAS-AIR

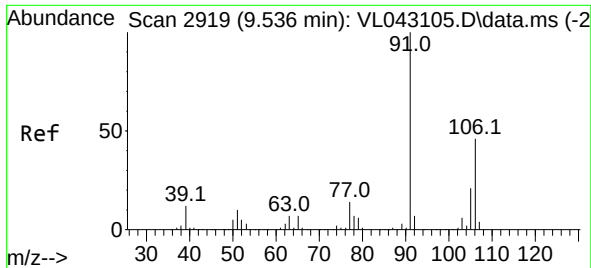
Tgt Ion:117 Resp: 265788
Ion Ratio Lower Upper
117 100
82 65.5 53.8 80.8
119 32.2 25.4 38.0



#58
Ethyl Benzene
Concen: 28.216 ppbv
RT: 9.364 min Scan# 2866
Delta R.T. 0.006 min
Lab File: VL043117.D
Acq: 15 Oct 2025 10:50

Tgt Ion: 91 Resp: 1287080
Ion Ratio Lower Upper
91 100
106 29.6 24.8 37.2

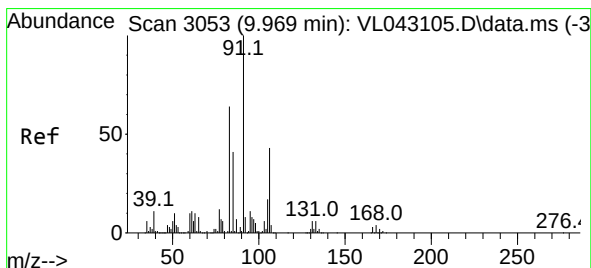
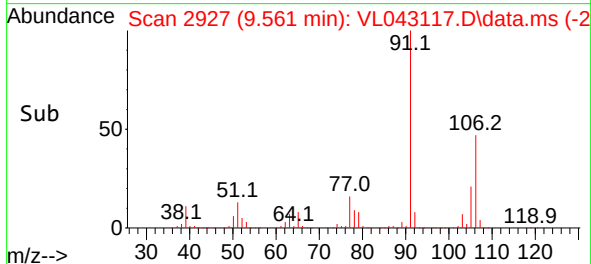
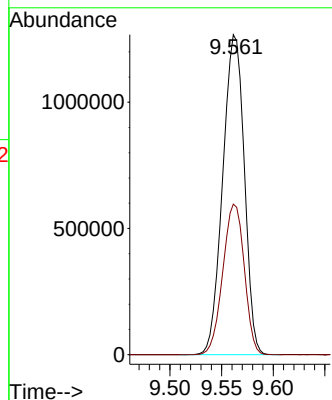
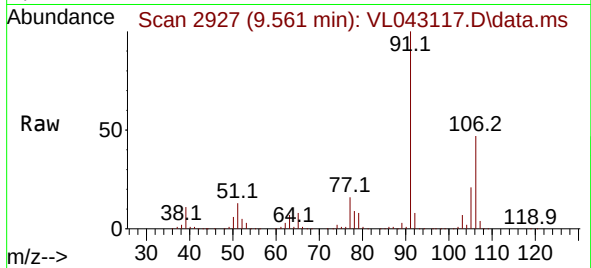




#59
m/p-Xylene
Concen: 50.659 ppbv
RT: 9.561 min Scan# 2919
Delta R.T. 0.026 min
Lab File: VL043117.D
Acq: 15 Oct 2025 10:50

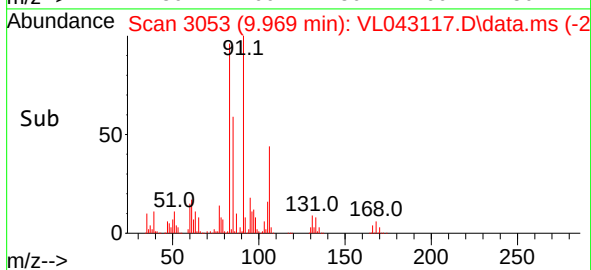
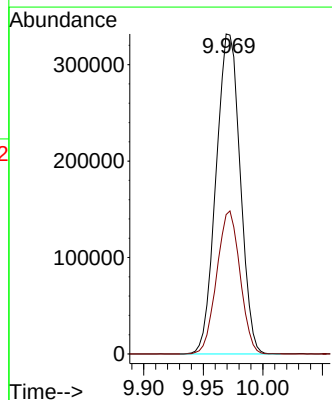
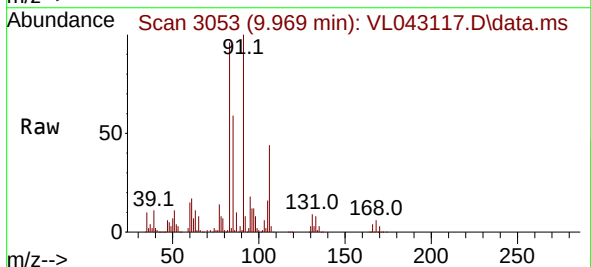
Instrument :
MSVOA_L
ClientSampleId :
RR-VOAS-AIR

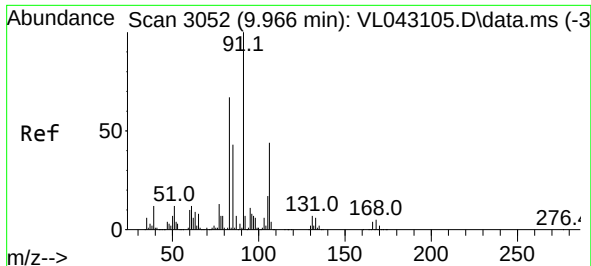
Tgt Ion: 91 Resp: 1843103
Ion Ratio Lower Upper
91 100
106 46.8 38.0 57.0



#60
o-Xylene
Concen: 13.000 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. -0.000 min
Lab File: VL043117.D
Acq: 15 Oct 2025 10:50

Tgt Ion: 91 Resp: 467143
Ion Ratio Lower Upper
91 100
106 43.2 21.9 65.8





#63

1,1,2,2-Tetrachloroethane

Concen: 16.637 ppbv

RT: 9.969 min Scan# 3052

Delta R.T. 0.003 min

Lab File: VL043117.D

Acq: 15 Oct 2025 10:50

Instrument :

MSVOA_L

ClientSampleId :

RR-VOAS-AIR

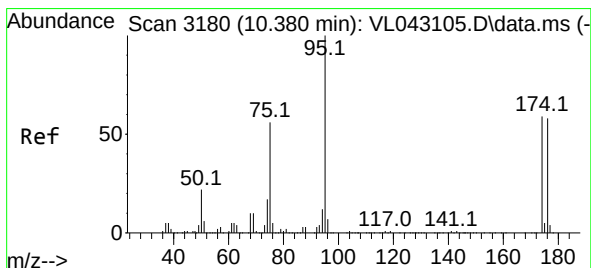
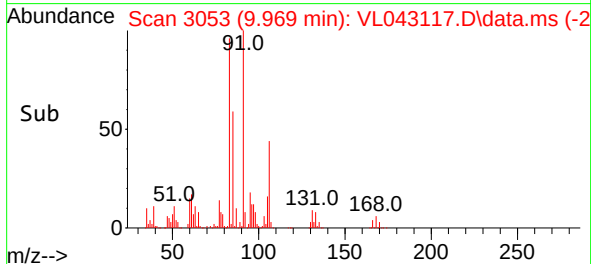
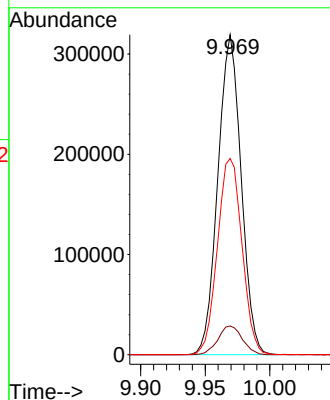
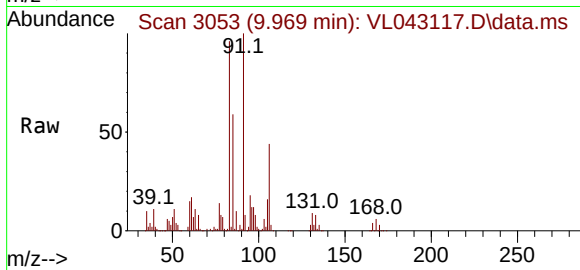
Tgt Ion: 83 Resp: 400302

Ion Ratio Lower Upper

83 100

131 9.4 4.8 14.3

85 64.6 32.0 96.0



#68

1-Bromo-4-Fluorobenzene

Concen: 10.365 ppbv

RT: 10.383 min Scan# 3181

Delta R.T. 0.003 min

Lab File: VL043117.D

Acq: 15 Oct 2025 10:50

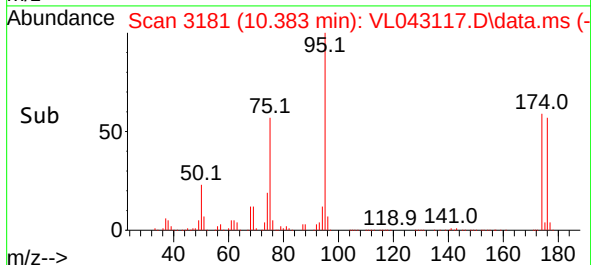
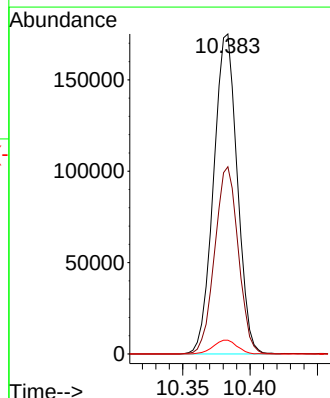
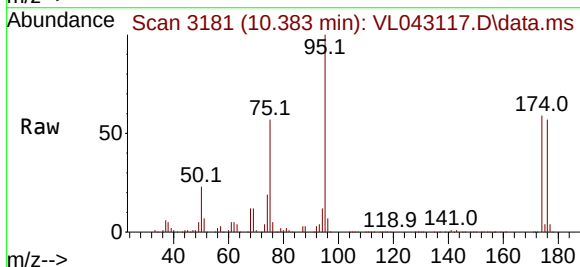
Tgt Ion: 95 Resp: 214126

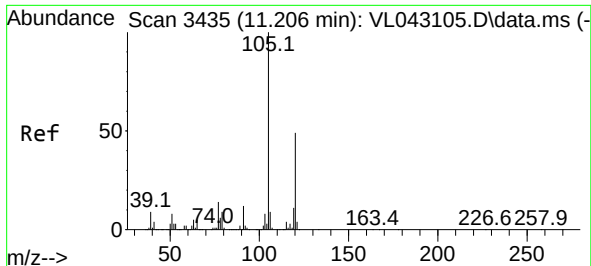
Ion Ratio Lower Upper

95 100

174 58.3 48.3 72.5

175 4.4 3.8 5.8

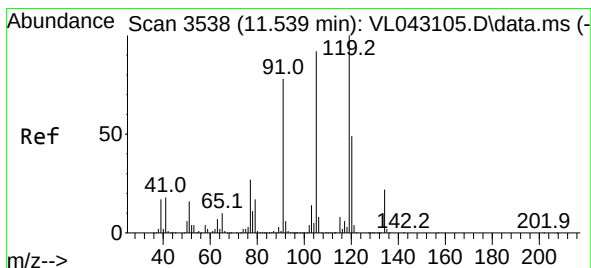
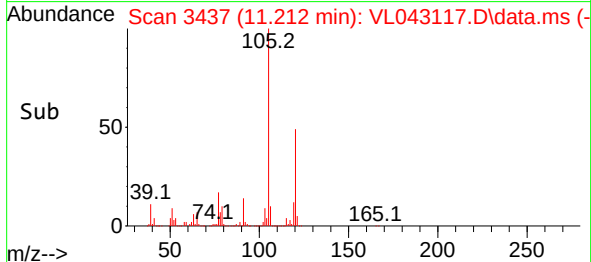
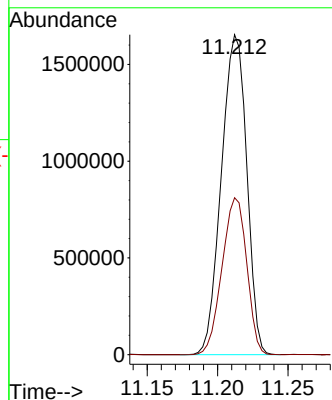
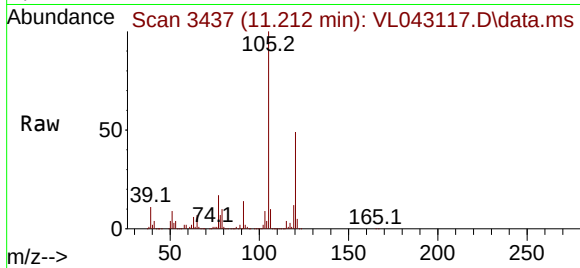




#73
1,3,5-Trimethylbenzene
Concen: 56.947 ppbv
RT: 11.212 min Scan# 3435
Delta R.T. 0.006 min
Lab File: VL043117.D
Acq: 15 Oct 2025 10:50

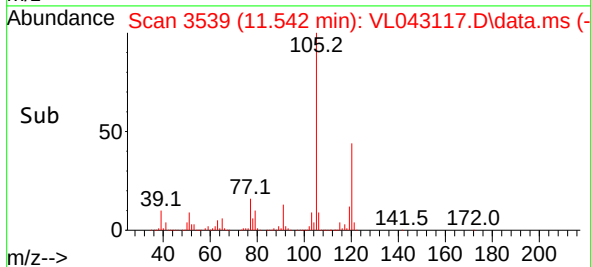
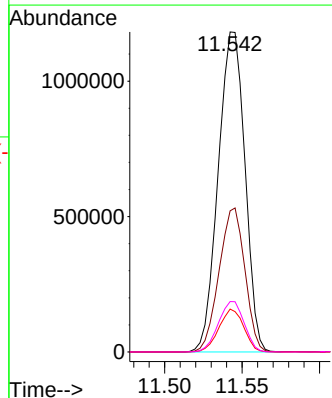
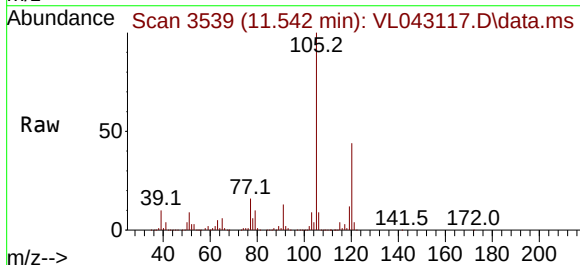
Instrument :
MSVOA_L
ClientSampleId :
RR-VOAS-AIR

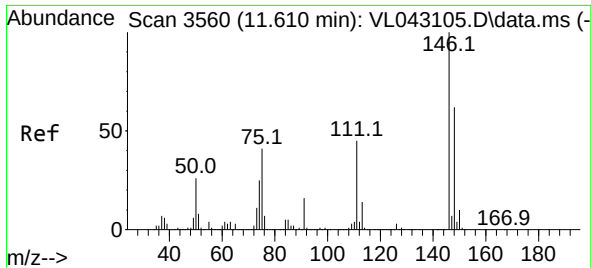
Tgt Ion:105 Resp: 2075108
Ion Ratio Lower Upper
105 100
120 49.1 39.0 58.6



#74
1,2,4-Trimethylbenzene
Concen: 34.791 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. 0.003 min
Lab File: VL043117.D
Acq: 15 Oct 2025 10:50

Tgt Ion:105 Resp: 1418707
Ion Ratio Lower Upper
105 100
120 44.1 42.8 64.2
91 13.4 68.3 102.5#
77 15.8 23.4 35.0#

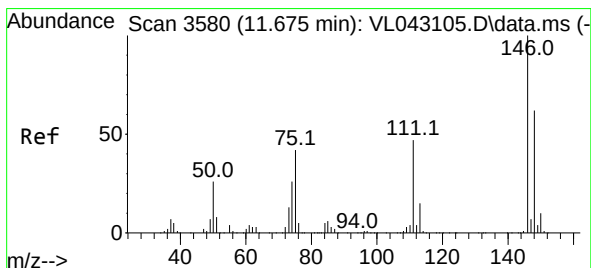
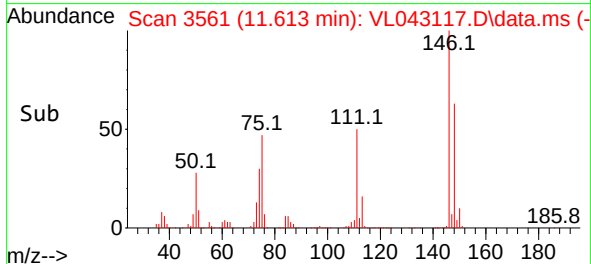
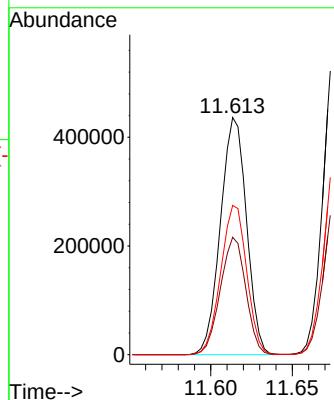
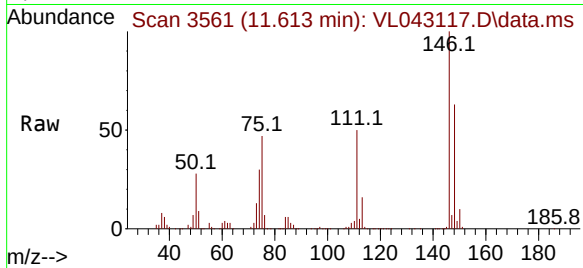




#75
1,3-Dichlorobenzene
Concen: 20.496 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. 0.003 min
Lab File: VL043117.D
Acq: 15 Oct 2025 10:50

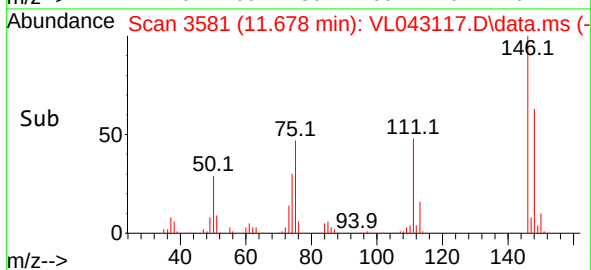
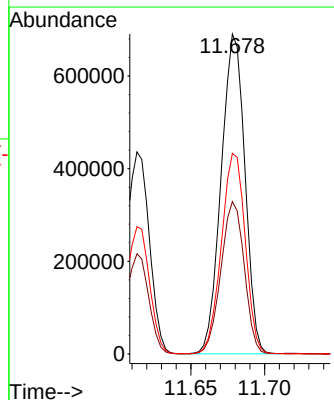
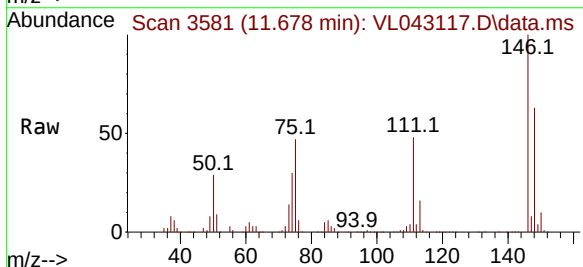
Instrument :
MSVOA_L
ClientSampleId :
RR-VOAS-AIR

Tgt Ion:146 Resp: 484752
Ion Ratio Lower Upper
146 100
111 48.3 23.3 69.9
148 62.7 31.6 95.0



#76
1,4-Dichlorobenzene
Concen: 32.356 ppbv
RT: 11.678 min Scan# 3581
Delta R.T. 0.003 min
Lab File: VL043117.D
Acq: 15 Oct 2025 10:50

Tgt Ion:146 Resp: 771622
Ion Ratio Lower Upper
146 100
111 47.1 22.4 67.0
148 63.3 31.6 94.7



Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	09/29/25
Project:	NJ AIR PT	Date Received:	09/30/25
Client Sample ID:	RR-VOAS-AIRDL	SDG No.:	Q3247
Lab Sample ID:	Q3247-01DL	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400 mL		

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
TARGETS									
75-00-3	Chloroethane	0.30	0.79	UD	2	0.79	2.64	10/15/25 12:12	VL101525
142-82-5	Heptane	0.34	1.39	UD	2	1.39	4.10	10/15/25 12:12	VL101525
75-27-4	Bromodichloromethane	0.13	0.87	UD	2	0.87	6.70	10/15/25 12:12	VL101525
179601-23-1	m/p-Xylene	56.3	245	D	2	3.56	8.69	10/15/25 12:12	VL101525
SURROGATES									
460-00-4	1-Bromo-4-Fluorobenzene	10.6				65 - 135	106% SPK: 10		
INTERNAL STANDARDS									
74-97-5	Bromochloromethane	89800							
540-36-3	1,4-Difluorobenzene	290000							
3114-55-4	Chlorobenzene-d5	255000							

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101525\
 Data File : VL043119.D
 Acq On : 15 Oct 2025 12:12
 Operator : SY/MD
 Sample : Q3247-01DL 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 RR-VOAS-AIRDL

Quant Time: Oct 16 01:16:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 02:12:58 2025
 Response via : Initial Calibration

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

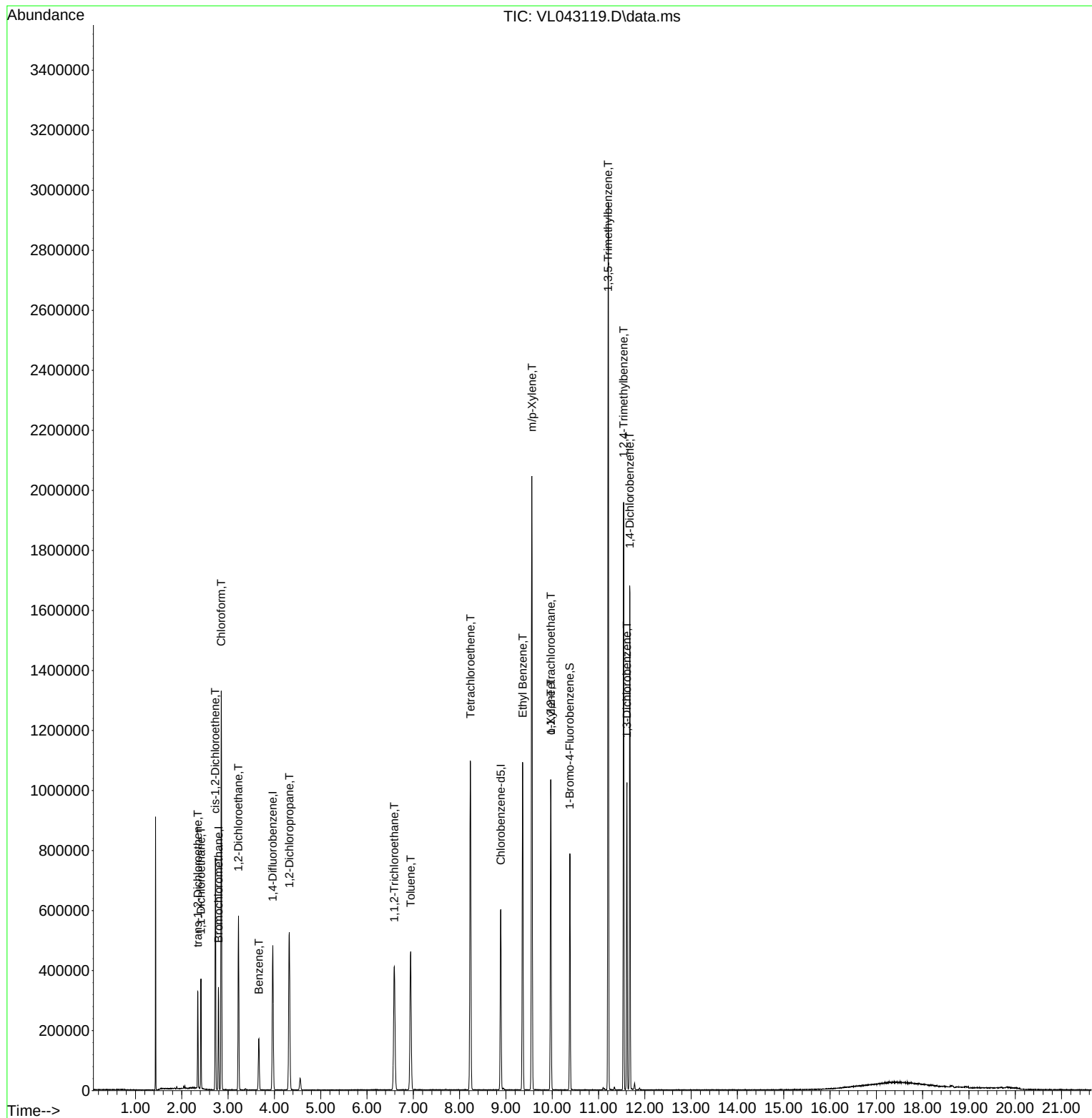
Internal Standards						
1) Bromochloromethane	2.793	49	89788	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	289768	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	254747	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	209345	10.573	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.700%
Target Compounds						
					Qvalue	
22) trans-1,2-Dichloroethene	2.347	96	50179	9.579	ppbv	97
24) 1,1-Dichloroethane	2.415	63	160183	15.827	ppbv	100
29) Chloroform	2.852	83	551740	27.536	ppbv	100
31) cis-1,2-Dichloroethene	2.725	61	239474	18.135	ppbv	97
36) Benzene	3.664	78	106862	3.915	ppbv	98
37) 1,2-Dichloroethane	3.224	62	333413	21.207	ppbv	97
39) 1,2-Dichloropropane	4.321	63	156136	15.649	ppbv	91
47) 1,1,2-Trichloroethane	6.590	97	144510	13.412	ppbv	94
52) Tetrachloroethene	8.234	164	189850	19.290	ppbv	99
53) Toluene	6.943	91	346344	10.693	ppbv	99
58) Ethyl Benzene	9.361	91	648462	14.832	ppbv	97
59) m/p-Xylene	9.561	91	981688	28.152	ppbv	97
60) o-Xylene	9.969	91	232435	6.749	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.969	83	199571	8.654	ppbv	99
73) 1,3,5-Trimethylbenzene	11.209	105	1138772	32.606	ppbv	95
74) 1,2,4-Trimethylbenzene	11.542	105	743722	19.029	ppbv #	50
75) 1,3-Dichlorobenzene	11.613	146	244003	10.764	ppbv	99
76) 1,4-Dichlorobenzene	11.678	146	397546	17.393	ppbv	99

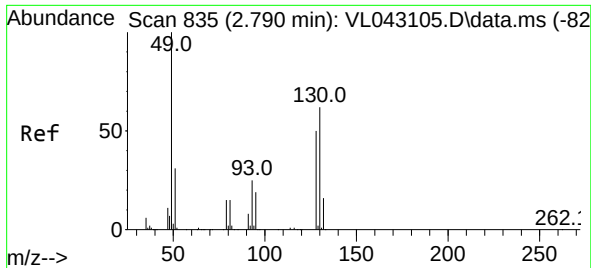
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101525\
Data File : VL043119.D
Acq On : 15 Oct 2025 12:12
Operator : SY/MD
Sample : Q3247-01DL 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
RR-VOAS-AIRDL

Quant Time: Oct 16 01:16:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration

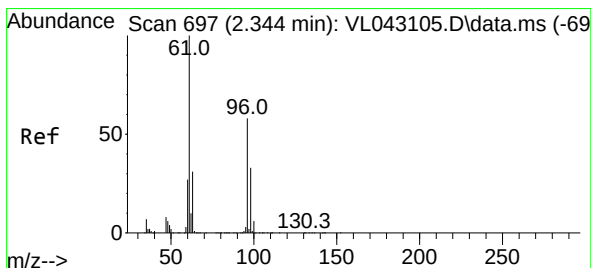
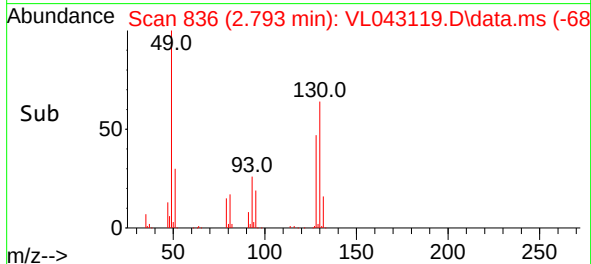
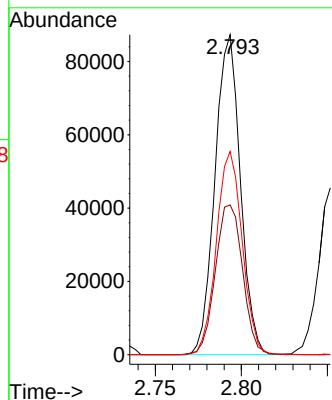
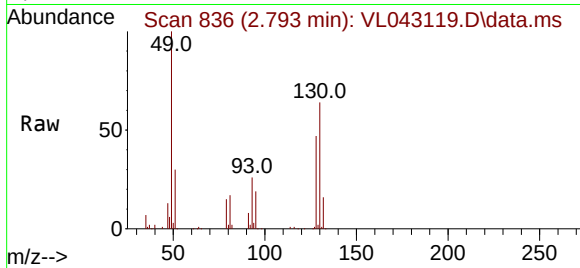




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL043119.D
Acq: 15 Oct 2025 12:12

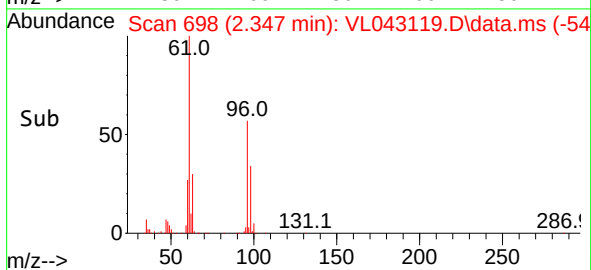
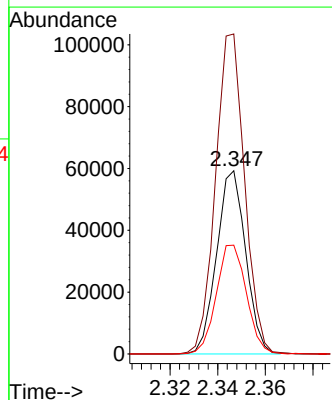
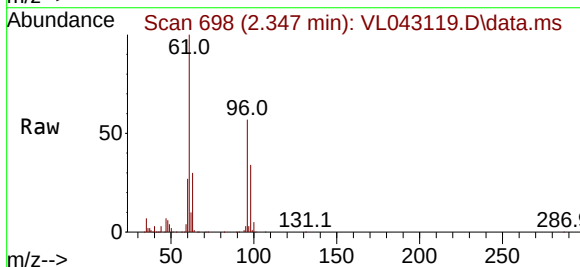
Instrument :
MSVOA_L
ClientSampleId :
RR-VOAS-AIRDL

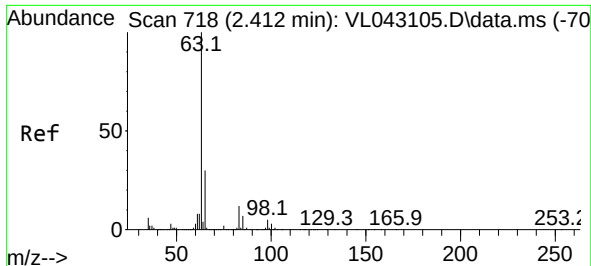
Tgt Ion: 49 Resp: 89788
Ion Ratio Lower Upper
49 100
128 50.2 24.4 73.4
130 64.4 31.0 93.0



#22
trans-1,2-Dichloroethene
Concen: 9.579 ppbv
RT: 2.347 min Scan# 698
Delta R.T. 0.003 min
Lab File: VL043119.D
Acq: 15 Oct 2025 12:12

Tgt Ion: 96 Resp: 50179
Ion Ratio Lower Upper
96 100
61 174.5 137.0 205.6
98 59.3 45.5 68.3

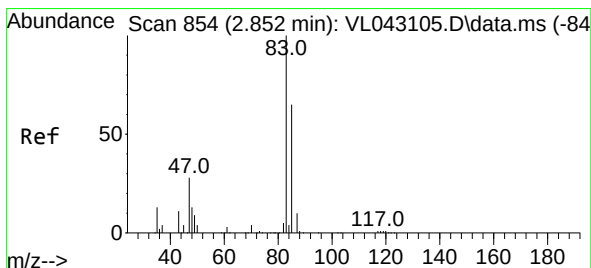
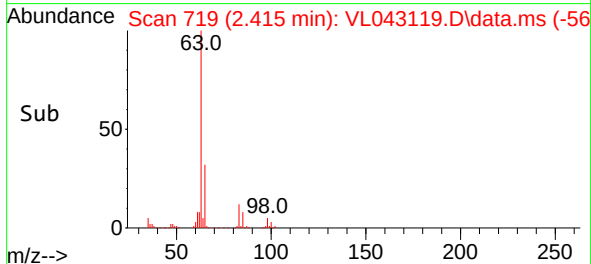
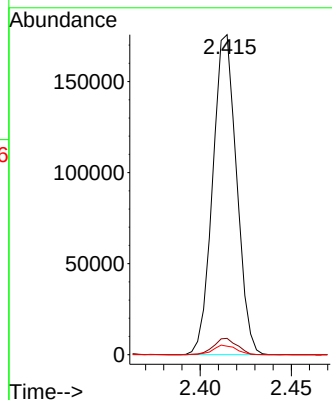
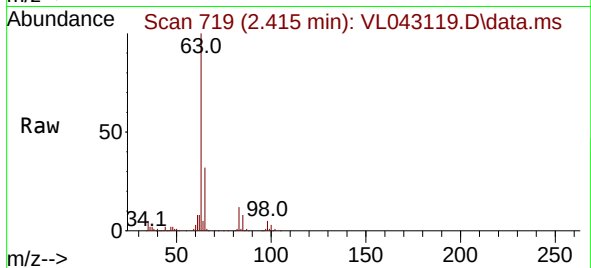




#24
1,1-Dichloroethane
Concen: 15.827 ppbv
RT: 2.415 min Scan# 718
Delta R.T. 0.003 min
Lab File: VL043119.D
Acq: 15 Oct 2025 12:12

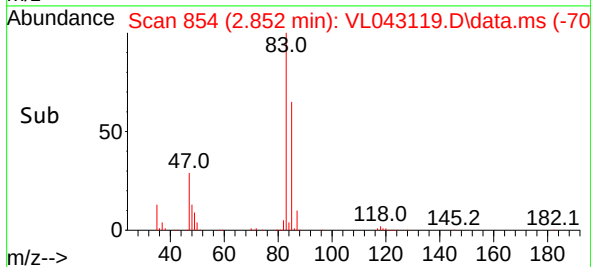
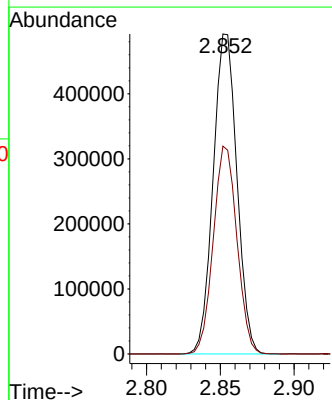
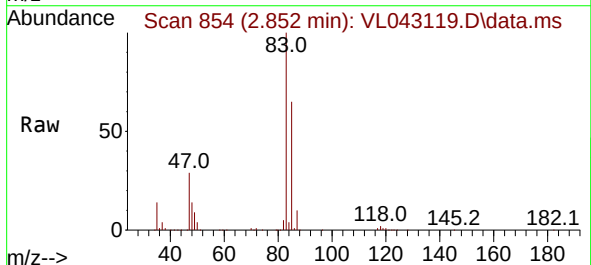
Instrument :
MSVOA_L
ClientSampleId :
RR-VOAS-AIRDL

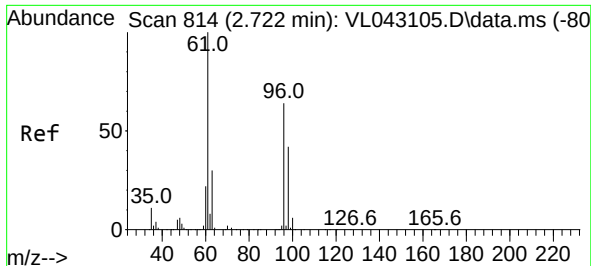
Tgt Ion: 63 Resp: 160183
Ion Ratio Lower Upper
63 100
98 5.1 2.6 7.8
100 2.6 1.5 4.4



#29
Chloroform
Concen: 27.536 ppbv
RT: 2.852 min Scan# 854
Delta R.T. -0.000 min
Lab File: VL043119.D
Acq: 15 Oct 2025 12:12

Tgt Ion: 83 Resp: 551740
Ion Ratio Lower Upper
83 100
85 64.9 51.8 77.6

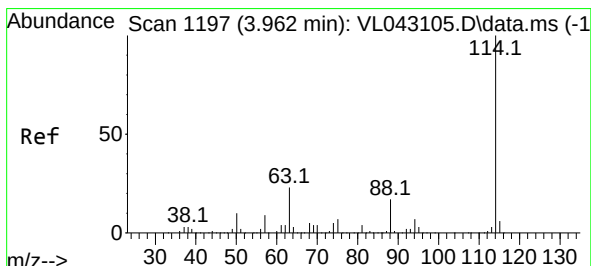
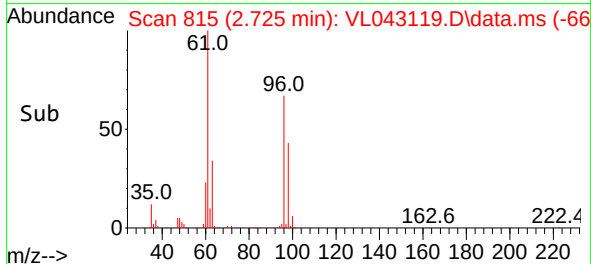
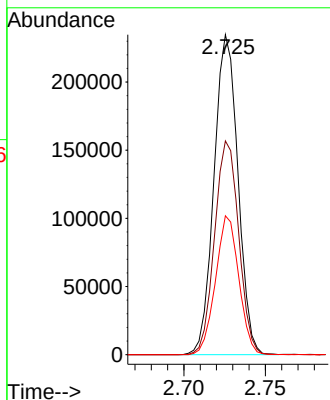
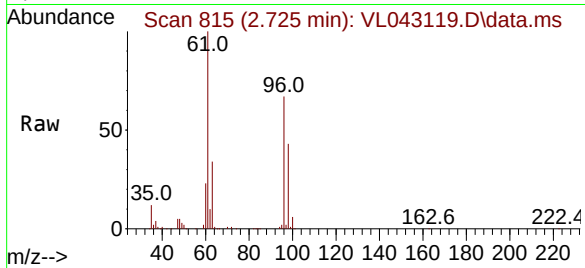




#31
 cis-1,2-Dichloroethene
 Concen: 18.135 ppbv
 RT: 2.725 min Scan# 814
 Delta R.T. 0.003 min
 Lab File: VL043119.D
 Acq: 15 Oct 2025 12:12

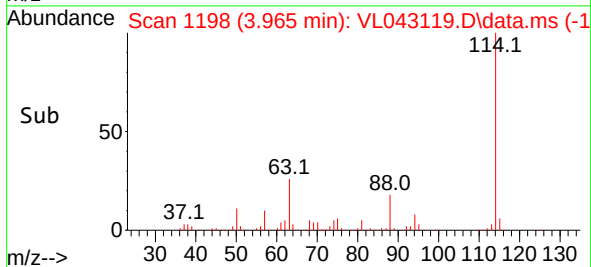
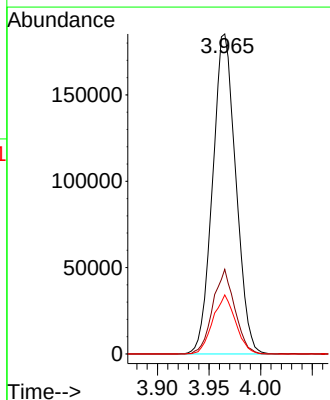
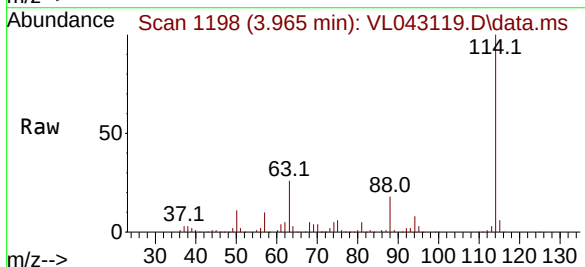
Instrument :
 MSVOA_L
 ClientSampleId :
 RR-VOAS-AIRDL

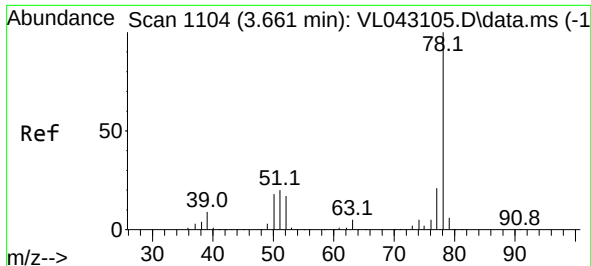
Tgt Ion: 61 Resp: 239474
 Ion Ratio Lower Upper
 61 100
 96 66.8 51.0 76.6
 98 43.4 33.5 50.3



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.965 min Scan# 1198
 Delta R.T. 0.003 min
 Lab File: VL043119.D
 Acq: 15 Oct 2025 12:12

Tgt Ion: 114 Resp: 289768
 Ion Ratio Lower Upper
 114 100
 63 25.1 19.3 28.9
 88 18.0 13.9 20.9





#36

Benzene

Concen: 3.915 ppbv

RT: 3.664 min Scan# 1104

Delta R.T. 0.003 min

Lab File: VL043119.D

Acq: 15 Oct 2025 12:12

Instrument :

MSVOA_L

ClientSampleId :

RR-VOAS-AIRDL

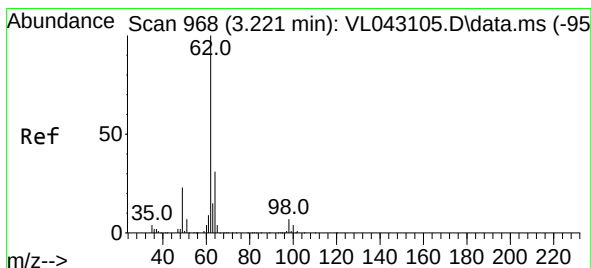
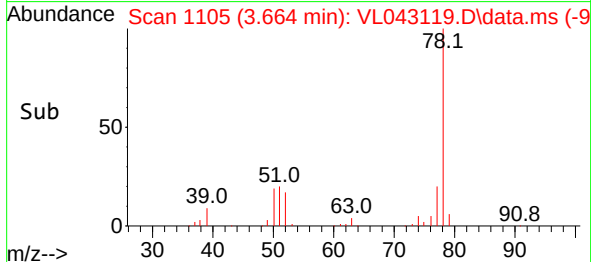
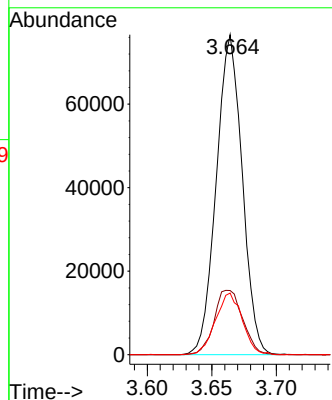
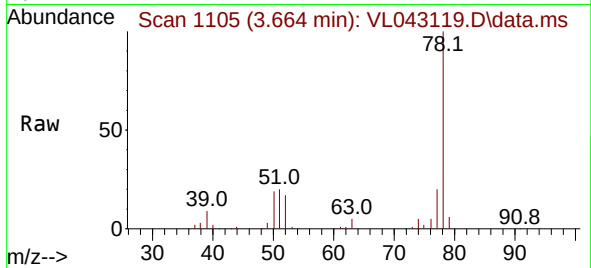
Tgt Ion: 78 Resp: 106862

Ion Ratio Lower Upper

78 100

77 20.1 17.0 25.6

50 19.3 14.6 22.0



#37

1,2-Dichloroethane

Concen: 21.207 ppbv

RT: 3.224 min Scan# 969

Delta R.T. 0.003 min

Lab File: VL043119.D

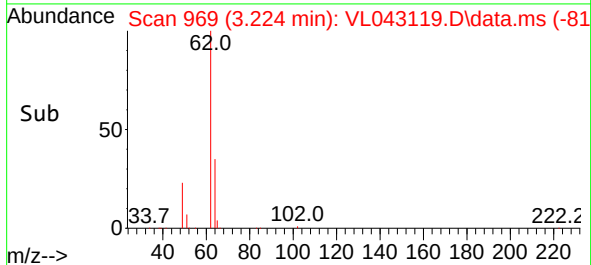
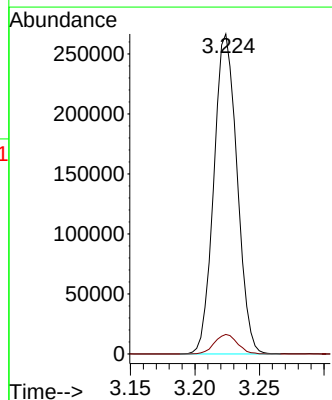
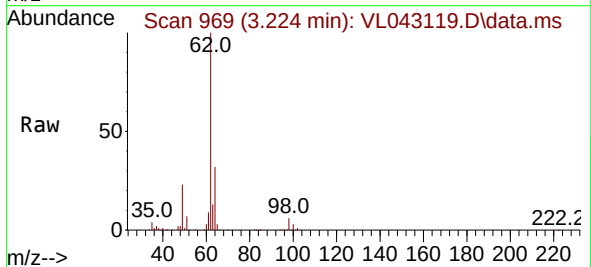
Acq: 15 Oct 2025 12:12

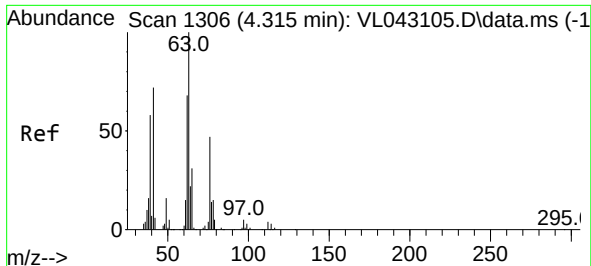
Tgt Ion: 62 Resp: 333413

Ion Ratio Lower Upper

62 100

98 6.0 5.8 8.6





#39

1,2-Dichloropropane

Concen: 15.649 ppbv

RT: 4.321 min Scan# 11

Delta R.T. 0.006 min

Lab File: VL043119.D

Acq: 15 Oct 2025 12:12

Instrument :

MSVOA_L

ClientSampleId :

RR-VOAS-AIRDL

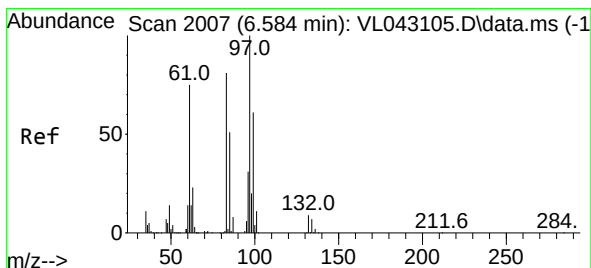
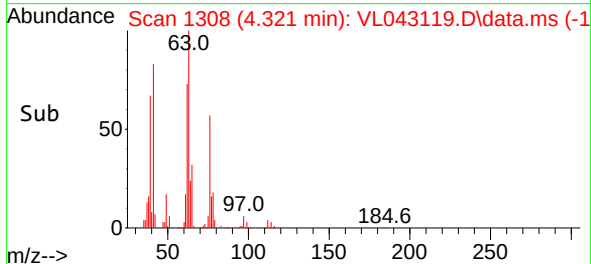
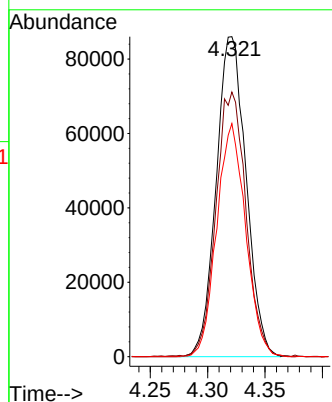
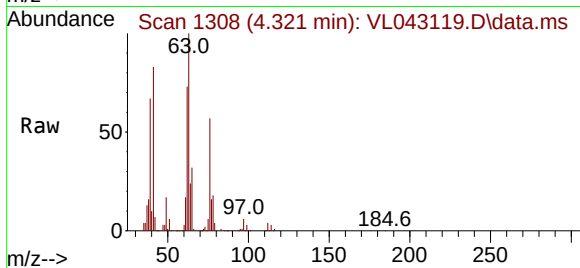
Tgt Ion: 63 Resp: 156136

Ion Ratio Lower Upper

63 100

41 82.4 58.0 87.0

62 72.7 54.7 82.1



#47

1,1,2-Trichloroethane

Concen: 13.412 ppbv

RT: 6.590 min Scan# 2009

Delta R.T. 0.006 min

Lab File: VL043119.D

Acq: 15 Oct 2025 12:12

Tgt Ion: 97 Resp: 144510

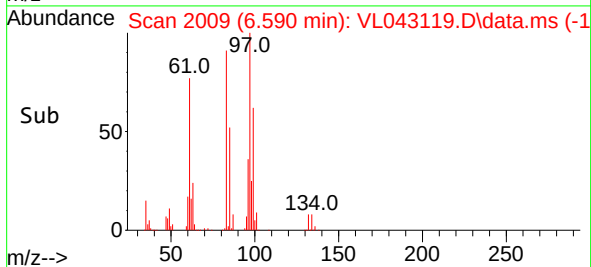
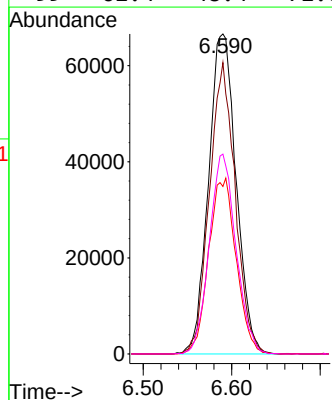
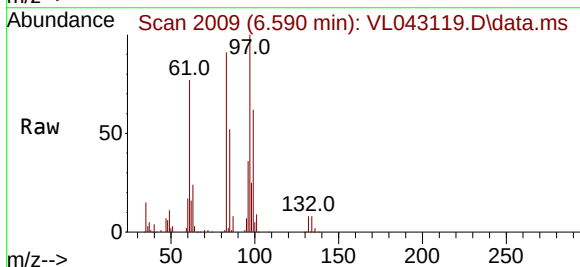
Ion Ratio Lower Upper

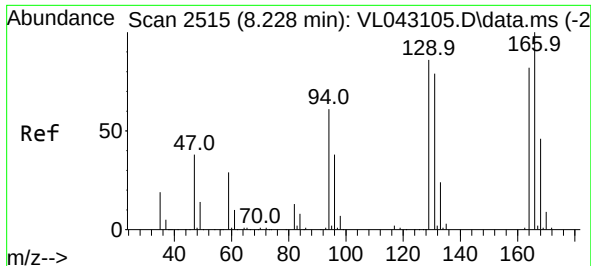
97 100

83 91.1 64.6 96.8

85 52.4 40.6 60.8

99 62.4 48.4 72.6

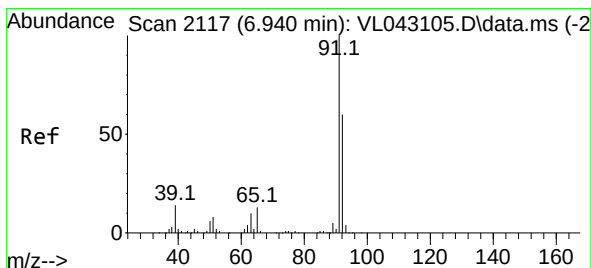
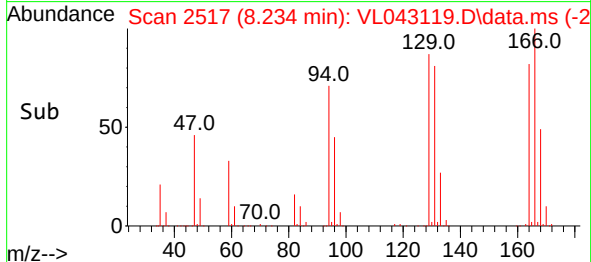
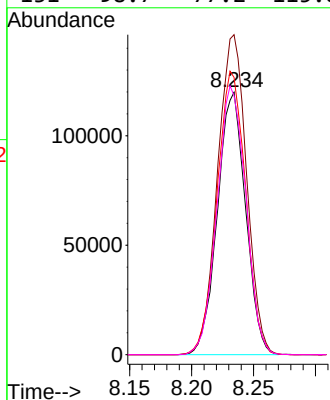
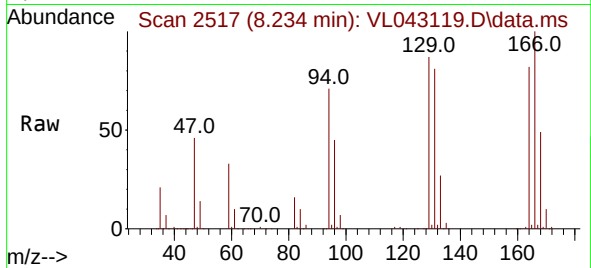




#52
Tetrachloroethene
Concen: 19.290 ppbv
RT: 8.234 min Scan# 2117
Delta R.T. 0.006 min
Lab File: VL043119.D
Acq: 15 Oct 2025 12:12

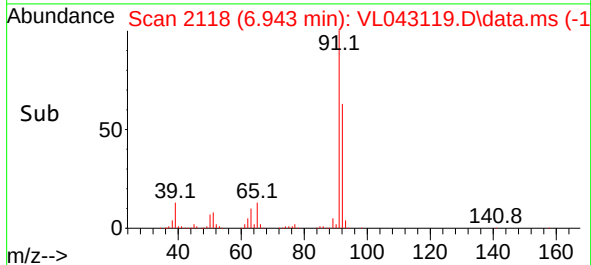
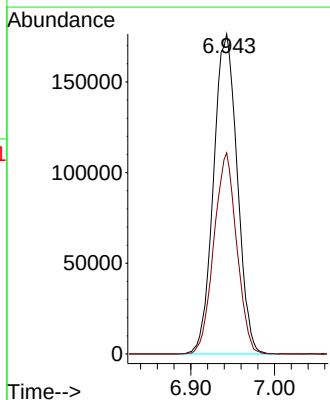
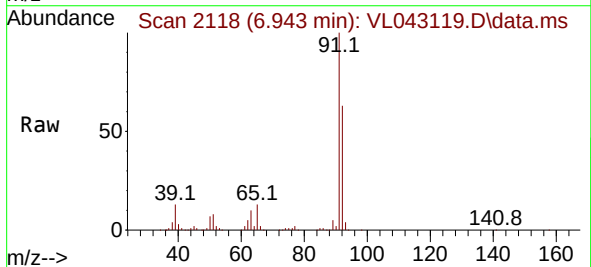
Instrument :
MSVOA_L
ClientSampleId :
RR-VOAS-AIRDL

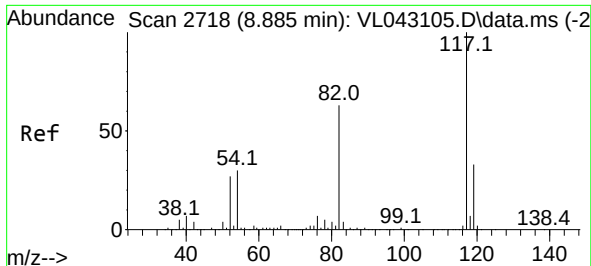
Tgt Ion:164 Resp: 189850
Ion Ratio Lower Upper
164 100
166 122.0 97.6 146.4
129 105.6 84.5 126.7
131 98.7 77.2 115.8



#53
Toluene
Concen: 10.693 ppbv
RT: 6.943 min Scan# 2118
Delta R.T. 0.003 min
Lab File: VL043119.D
Acq: 15 Oct 2025 12:12

Tgt Ion: 91 Resp: 346344
Ion Ratio Lower Upper
91 100
92 60.6 48.8 73.2

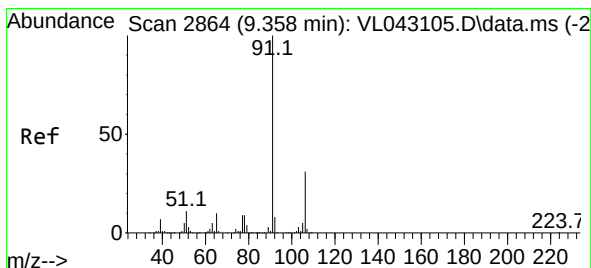
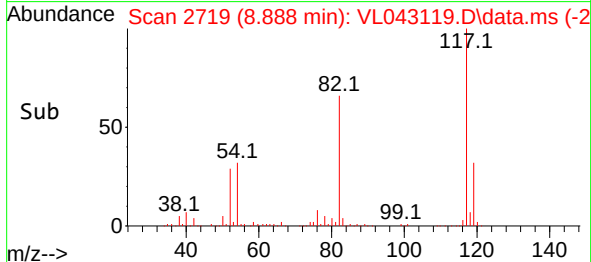
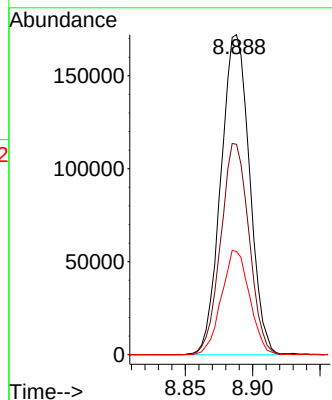
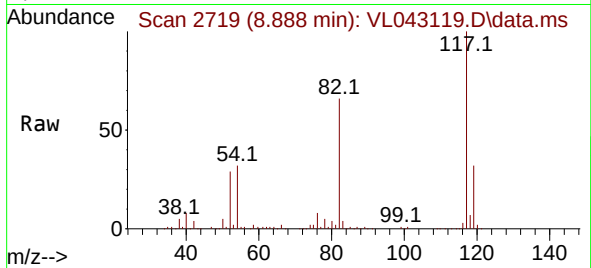




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL043119.D
Acq: 15 Oct 2025 12:12

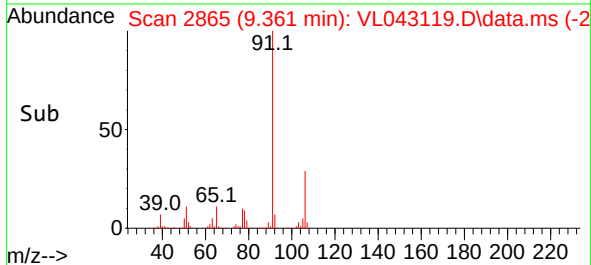
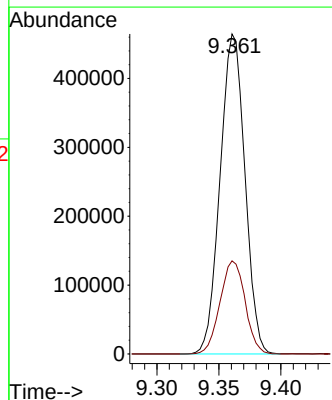
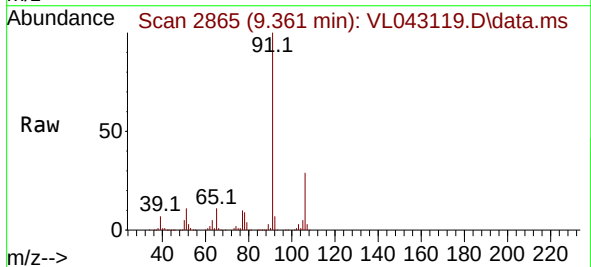
Instrument :
MSVOA_L
ClientSampleId :
RR-VOAS-AIRDL

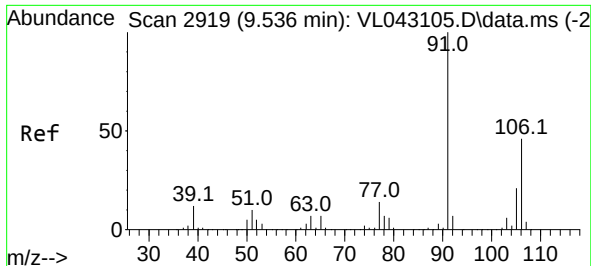
Tgt Ion:117 Resp: 254747
Ion Ratio Lower Upper
117 100
82 65.1 53.8 80.8
119 32.1 25.4 38.0



#58
Ethyl Benzene
Concen: 14.832 ppbv
RT: 9.361 min Scan# 2865
Delta R.T. 0.003 min
Lab File: VL043119.D
Acq: 15 Oct 2025 12:12

Tgt Ion: 91 Resp: 648462
Ion Ratio Lower Upper
91 100
106 29.1 24.8 37.2

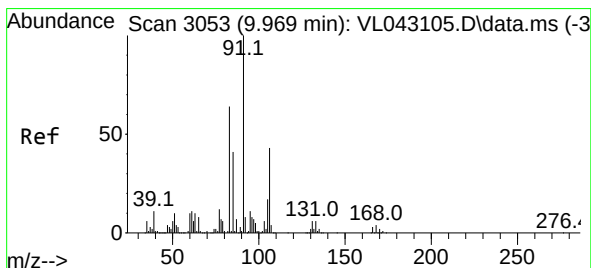
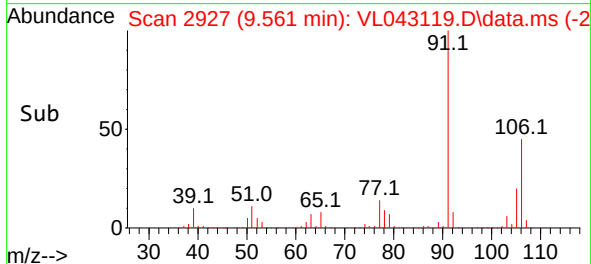
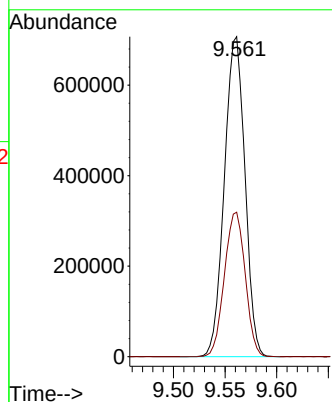
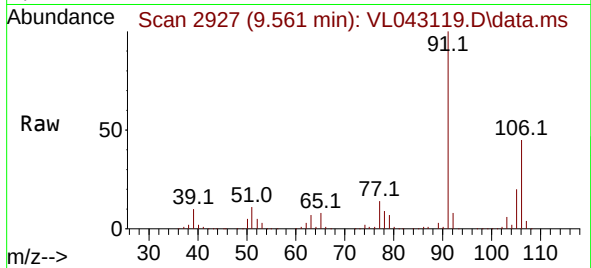




#59
m/p-Xylene
Concen: 28.152 ppbv
RT: 9.561 min Scan# 2919
Delta R.T. 0.026 min
Lab File: VL043119.D
Acq: 15 Oct 2025 12:12

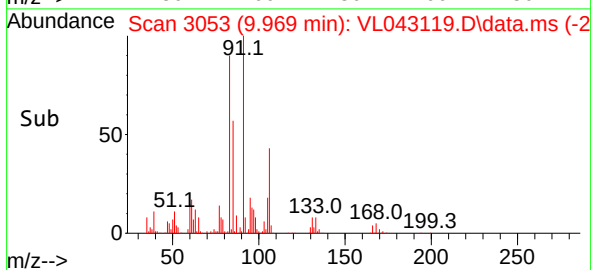
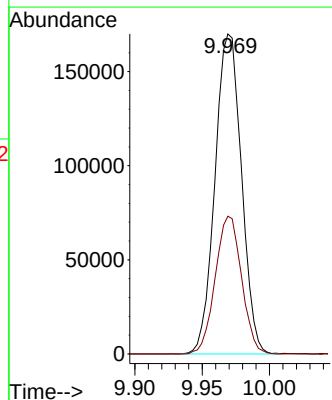
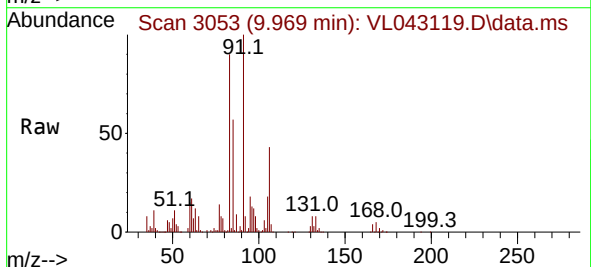
Instrument :
MSVOA_1
ClientSampleId :
RR-VOAS-AIRDL

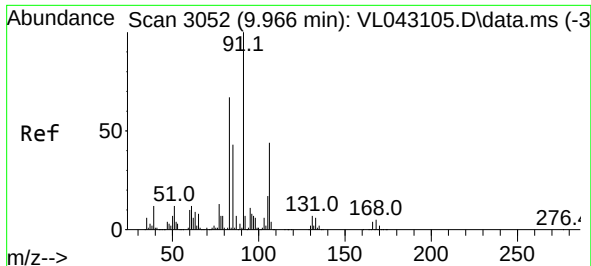
Tgt Ion: 91 Resp: 981688
Ion Ratio Lower Upper
91 100
106 45.6 38.0 57.0



#60
o-Xylene
Concen: 6.749 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. -0.000 min
Lab File: VL043119.D
Acq: 15 Oct 2025 12:12

Tgt Ion: 91 Resp: 232435
Ion Ratio Lower Upper
91 100
106 42.7 21.9 65.8





#63

1,1,2,2-Tetrachloroethane

Concen: 8.654 ppbv

RT: 9.969 min Scan# 3052

Delta R.T. 0.003 min

Lab File: VL043119.D

Acq: 15 Oct 2025 12:12

Instrument :

MSVOA_L

ClientSampleId :

RR-VOAS-AIRDL

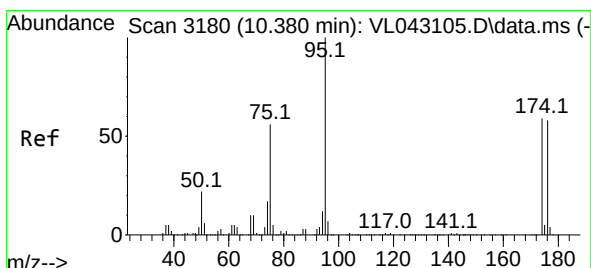
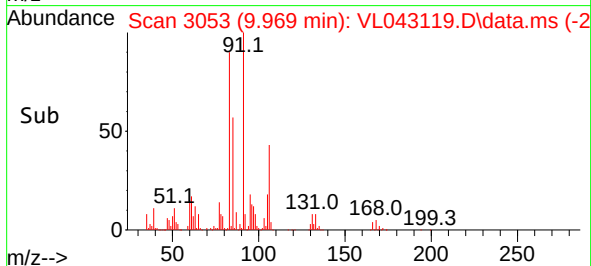
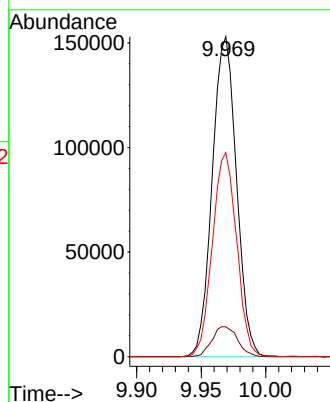
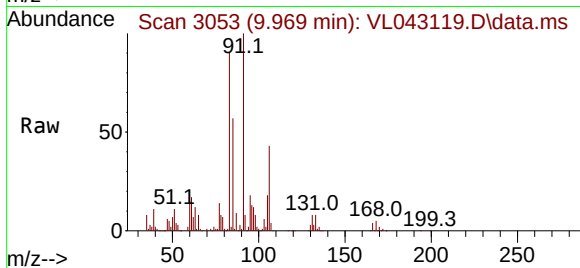
Tgt Ion: 83 Resp: 199571

Ion Ratio Lower Upper

83 100

131 9.9 4.8 14.3

85 63.6 32.0 96.0



#68

1-Bromo-4-Fluorobenzene

Concen: 10.573 ppbv

RT: 10.380 min Scan# 3180

Delta R.T. -0.000 min

Lab File: VL043119.D

Acq: 15 Oct 2025 12:12

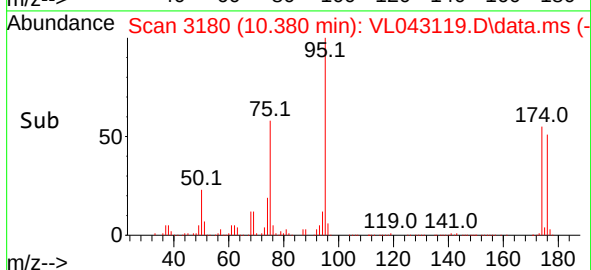
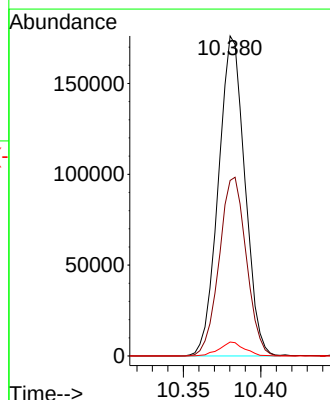
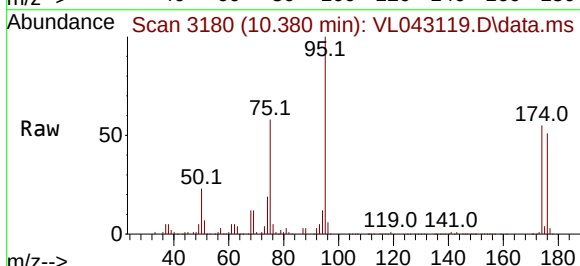
Tgt Ion: 95 Resp: 209345

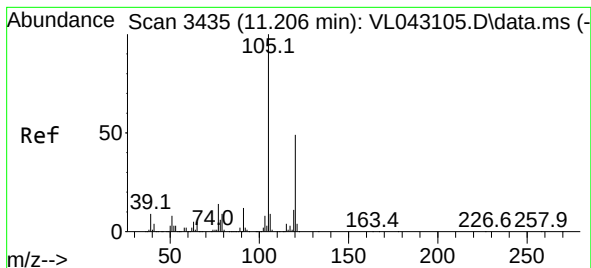
Ion Ratio Lower Upper

95 100

174 57.3 48.3 72.5

175 4.1 3.8 5.8





#73

1,3,5-Trimethylbenzene

Concen: 32.606 ppbv

RT: 11.209 min Scan# 3435

Delta R.T. 0.003 min

Lab File: VL043119.D

Acq: 15 Oct 2025 12:12

Instrument :

MSVOA_L

ClientSampleId :

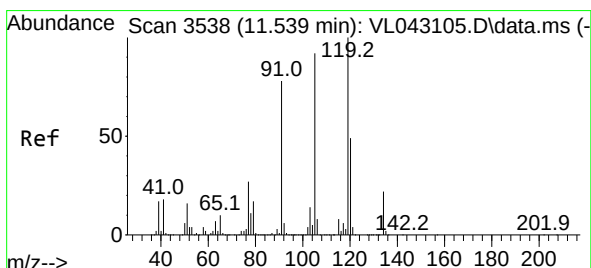
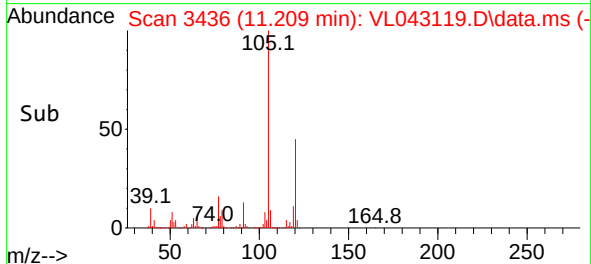
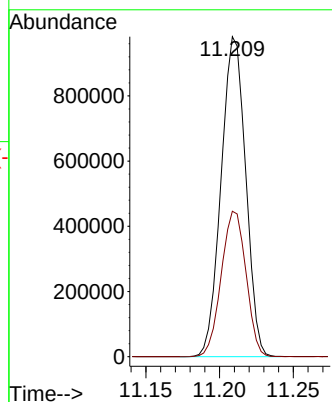
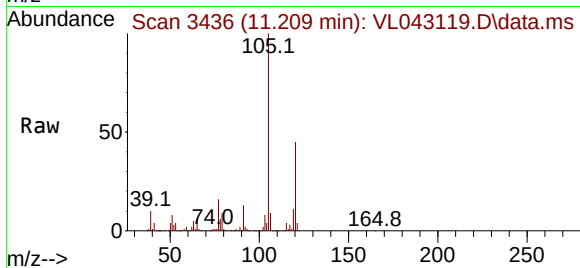
RR-VOAS-AIRDL

Tgt Ion:105 Resp: 1138772

Ion Ratio Lower Upper

105 100

120 45.5 39.0 58.6



#74

1,2,4-Trimethylbenzene

Concen: 19.029 ppbv

RT: 11.542 min Scan# 3539

Delta R.T. 0.003 min

Lab File: VL043119.D

Acq: 15 Oct 2025 12:12

Tgt Ion:105 Resp: 743722

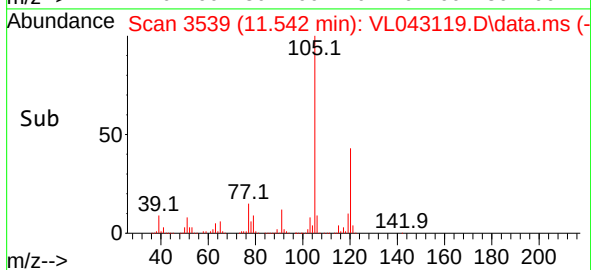
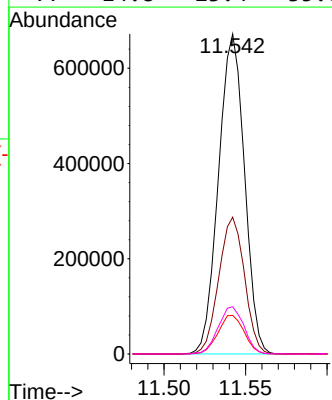
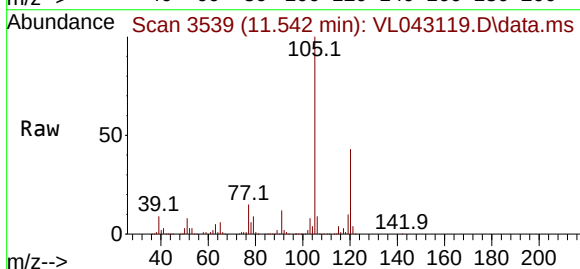
Ion Ratio Lower Upper

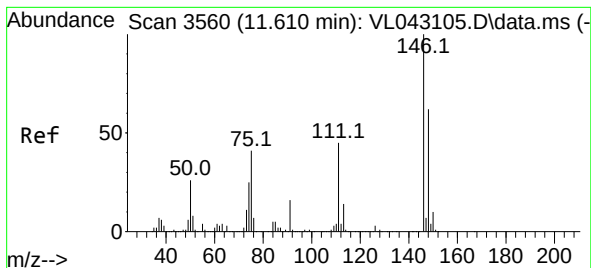
105 100

120 42.7 42.8 64.2#

91 12.1 68.3 102.5#

77 14.8 23.4 35.0#





#75

1,3-Dichlorobenzene

Concen: 10.764 ppbv

RT: 11.613 min Scan# 3560

Delta R.T. 0.003 min

Lab File: VL043119.D

Acq: 15 Oct 2025 12:12

Instrument :

MSVOA_L

ClientSampleId :

RR-VOAS-AIRDL

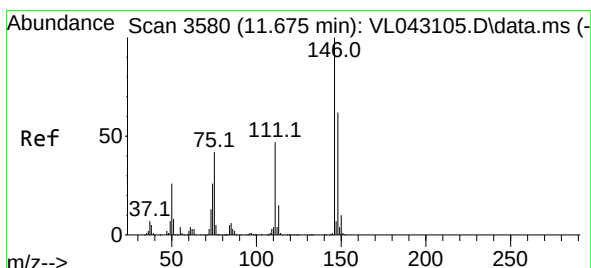
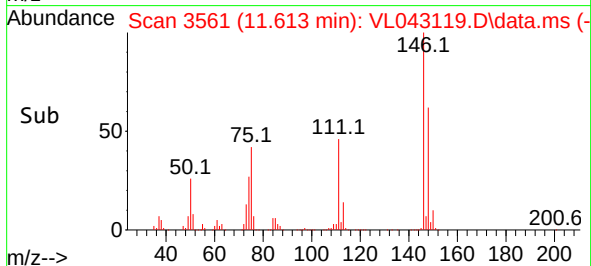
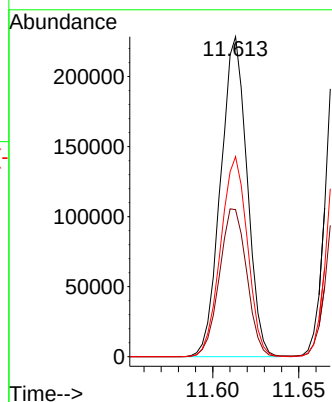
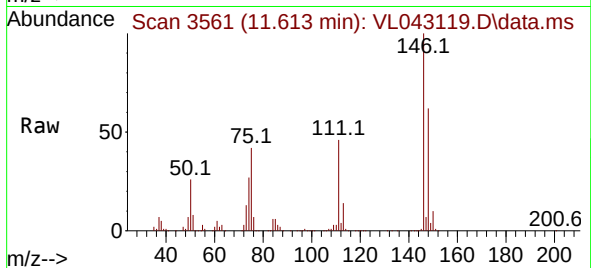
Tgt Ion:146 Resp: 244003

Ion Ratio Lower Upper

146 100

111 47.8 23.3 69.9

148 63.3 31.6 95.0



#76

1,4-Dichlorobenzene

Concen: 17.393 ppbv

RT: 11.678 min Scan# 3581

Delta R.T. 0.003 min

Lab File: VL043119.D

Acq: 15 Oct 2025 12:12

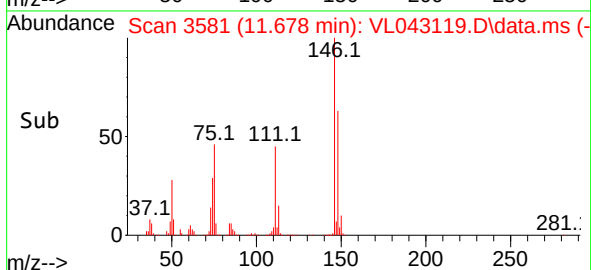
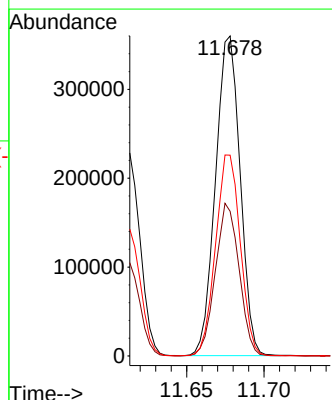
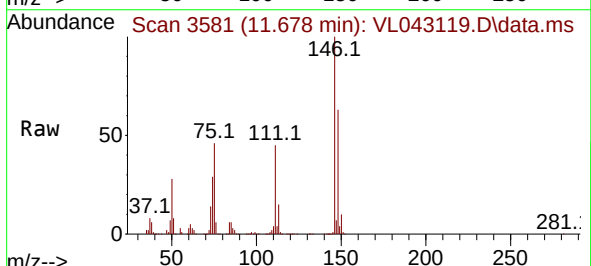
Tgt Ion:146 Resp: 397546

Ion Ratio Lower Upper

146 100

111 46.3 22.4 67.0

148 63.3 31.6 94.7





CALIBRATION SUMMARY

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

Method File : VL101425AIR.M

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

Last Update : Wed Oct 15 02:12:58 2025

Response Via : Initial Calibration

Calibration Files

0.03=VL043110.D 0.1 =VL043109.D 0.5 =VL043108.D 1 =VL043107.D 2 =VL043106.D 10 =VL043105.D 15 =VL043111.D

Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD

1) I Bromochloromethane	-----ISTD-----								
2) T Dichlorodifluo...			1.545	1.527	1.481	1.278	1.278	1.422	9.38
3) Chlorodifluoro...			1.672	1.632	1.577	1.451	1.359	1.538	8.46
4) Chloromethane			0.640	0.621	0.579	0.500	0.477	0.563	12.89
5) T Vinyl Chloride	0.723	0.554	0.562	0.557	0.528	0.481	0.462	0.552	15.33
6) T Bromomethane			0.336	0.338	0.317	0.260	0.263	0.303	12.78
7) Chloroethane			0.261	0.256	0.238	0.192	0.183	0.226	16.03
8) T Dichlorotetra...			1.175	1.265	1.230	1.040	1.036	1.149	9.26
9) T Propene			0.738	0.713	0.721	0.655	0.585	0.682	9.20
10) T Heptane			2.184	2.151	2.032	1.803	1.650	1.964	11.73
11) T Trichlorofluor...			1.510	1.459	1.477	1.242	1.265	1.391	9.11
12) T 1,1,2-Trichlor...			1.215	1.220	1.191	0.976	0.996	1.120	10.97
13) Ethanol			0.289	0.307	0.302	0.193	0.171	0.252	25.86
14) T Bromoethene			0.481	0.434	0.431	0.371	0.362	0.416	11.84
15) T Acetone			1.561	1.522	1.508	1.091	1.058	1.348	18.60
16) T 1,3-Butadiene			0.780	0.700	0.649	0.552	0.531	0.642	16.07
17) tert-Butyl alc...			2.010	2.047	1.934	1.689	1.571	1.850	11.31
18) T 1,1-Dichloroet...			0.519	0.539	0.512	0.437	0.434	0.488	10.07
19) T Isopropyl Alcohol			0.971	0.958	0.870	0.725	0.674	0.839	16.03
20) T Methylene Chlo...			0.738	0.612	0.508	0.406	0.400	0.533	26.98
21) T Allyl Chloride			1.097	1.049	1.040	0.910	0.869	0.993	9.86
22) T trans-1,2-Dich...			0.609	0.696	0.594	0.511	0.508	0.583	13.38
23) T Vinyl Acetate			2.148	1.904	2.292	1.623	1.905	1.974	13.03
24) T 1,1-Dichloroet...			1.169	1.237	1.190	1.031	1.009	1.127	8.99
25) T Ethyl Acetate			3.526	3.626	3.558	3.132	2.871	3.342	9.77
26) T Hexane			1.753	1.677	1.548	1.406	1.318	1.540	11.77
27) T Carbon Disulfide			1.423	1.540	1.505	1.315	1.272	1.411	8.26
28) T Methyl tert-Bu...			0.742	0.767	0.769	0.587	0.638	0.701	11.86
29) T Chloroform			2.437	2.397	2.296	2.030	1.997	2.232	9.22
30) T Cyclohexane			1.493	1.448	1.390	1.214	1.176	1.344	10.53
31) T cis-1,2-Dichlo...			1.491	1.594	1.516	1.405	1.348	1.471	6.55
32) T 1,1,1-Trichlor...	2.165	2.605	2.407	2.439	2.424	2.136	2.092	2.324	8.31

33) I 1,4-Difluorobenzene	-----ISTD-----								
34) T 2-Butanone			0.753	0.708	0.707	0.606	0.587	0.672	10.68
35) T Carbon Tetrach...	0.752	0.761	0.710	0.743	0.745	0.649	0.674	0.719	5.96
36) T Benzene			0.974	0.980	1.023	0.871	0.862	0.942	7.60
37) T 1,2-Dichloroet...			0.589	0.571	0.565	0.485	0.502	0.543	8.49
38) T Trichloroethene	0.460	0.421	0.401	0.402	0.398	0.342	0.330	0.393	11.38
39) T 1,2-Dichloropr...			0.359	0.370	0.371	0.317	0.305	0.344	8.99

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\ Method File : VL101425AIR.M										
40)	T	1,4-Dioxane		0.166	0.166	0.162	0.141	0.135	0.154	9.56
41)	T	Tetrahydrofuran		0.427	0.394	0.384	0.343	0.332	0.376	10.32
42)	T	Bromodichlorom...		0.779	0.775	0.791	0.697	0.713	0.751	5.68
43)		Methyl Methacr...		0.500	0.511	0.493	0.450	0.437	0.478	6.85
44)	T	2,2,4-Trimethy...		1.695	1.706	1.683	1.460	1.401	1.589	9.22
45)	T	t-1,3-Dichloro...		0.478	0.502	0.506	0.462	0.453	0.480	4.94
46)	T	cis-1,3-Dichlo...		0.593	0.590	0.603	0.546	0.535	0.573	5.34
47)	T	1,1,2-Trichlor...		0.416	0.383	0.384	0.338	0.338	0.372	9.07
48)	T	Dibromochlorom...		0.619	0.650	0.667	0.589	0.582	0.622	5.96
49)	T	Bromoform		0.503	0.515	0.544	0.487	0.478	0.505	5.14
50)	T	4-Methyl-2-Pen...		0.969	0.989	0.974	0.873	0.833	0.928	7.55
51)	T	2-Hexanone		0.683	0.708	0.738	0.692	0.658	0.696	4.31
52)	T	Tetrachloroethene	0.354 0.345	0.349	0.366	0.353	0.312	0.298	0.340	7.27
53)	T	Toluene		1.212	1.162	1.176	1.036	1.003	1.118	8.28
54)	T	1,2-Dibromoethane	0.662	0.570	0.586	0.617	0.533	0.526	0.582	8.84
-----ISTD-----										
55)	I	Chlorobenzene-d5								
56)		1,1,1,2-Tetrac...		0.662	0.664	0.665	0.590	0.570	0.630	7.32
57)	T	Chlorobenzene		1.010	1.009	1.000	0.849	0.810	0.936	10.47
58)	T	Ethyl Benzene		1.801	1.815	1.824	1.599	1.543	1.716	7.84
59)	T	m/p-Xylene		1.463	1.457	1.476	1.238	1.210	1.369	9.71
60)	T	o-Xylene		1.433	1.471	1.454	1.224	1.177	1.352	10.34
61)	T	Styrene		0.597	0.649	0.664	0.578	0.564	0.610	7.17
62)		Isopropylbenzene		2.564	2.671	2.616	2.241	2.123	2.443	10.02
63)	T	1,1,2,2-Tetrac...	1.029 1.019	0.900	0.924	0.933	0.777	0.755	0.905	11.78
64)		n-propylbenzene		0.688	0.710	0.696	0.589	0.551	0.647	11.10
65)		tert-Butylbenzene		2.342	2.383	2.364	1.901	1.796	2.157	13.20
66)	T	Benzyl Chloride		0.229	0.259	0.250	0.241	0.221	0.240	6.35
67)		sec-Butylbenzene		3.313	3.378	3.357	2.697	2.565	3.062	12.96
68)	S	1-Bromo-4-Fluo...	0.765 0.780	0.768	0.770	0.779	0.781	0.798	0.777	1.44
69)		p-Isopropyltol...		2.726	2.896	2.871	2.330	2.186	2.602	12.47
70)		n-Butylbenzene		2.611	2.820	2.849	2.321	2.218	2.564	11.16
71)		2-Chlorotoluene		1.959	1.997	2.018	1.698	1.645	1.863	9.53
72)	T	4-Ethyltoluene		1.741	1.761	1.805	1.530	1.475	1.662	8.97
73)	T	1,3,5-Trimethy...		1.434	1.466	1.477	1.261	1.217	1.371	8.95
74)	T	1,2,4-Trimethy...		1.691	1.706	1.664	1.331	1.278	1.534	13.75
75)	T	1,3-Dichlorobe...		0.903	0.956	1.000	0.818	0.773	0.890	10.57
76)	T	1,4-Dichlorobe...		0.957	0.957	0.971	0.823	0.779	0.897	9.96
77)	T	1,2-Dichlorobe...		0.944	0.954	0.914	0.766	0.727	0.861	12.40
78)	T	Hexachloro-1,3...		0.751	0.764	0.746	0.555	0.516	0.667	18.08
79)	T	Naphthalene	1.265	1.532	1.766	1.971	1.580	1.507	1.604	15.04
80)	T	Naphthalene,2-...		0.255	0.355	0.515	0.478	0.485	0.418	26.20
81)	T	1,2,4-Trichlor...		0.553	0.726	0.803	0.638	0.608	0.666	14.90

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
 Data File : VL043105.D
 Acq On : 14 Oct 2025 10:31
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025

Quant Time: Oct 15 01:51:07 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

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

QLast Update : Wed Oct 15 01:49:43 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	103971	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	341790	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	309230	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 241468 10.046 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	132845	8.987	ppbv	100
3) Chlorodifluoromethane	1.476	51	150832	9.431	ppbv	100
4) Chloromethane	1.535	50	51934	8.869	ppbv	100
5) Vinyl Chloride	1.583	62	50044	8.713	ppbv	100
6) Bromomethane	1.671	94	27062	8.593	ppbv	100
7) Chloroethane	1.706	64	19941	8.492	ppbv	100
8) Dichlorotetrafluoroethane	1.557	85	108109	9.049	ppbv	100
9) Propene	1.483	41	68116	9.602	ppbv	100
10) Heptane	4.985	43	187423	9.217	ppbv	100
11) Trichlorofluoromethane	1.881	101	129180	8.935	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.143	101	101442	8.715	ppbv	100
13) Ethanol	1.722	45	20045	7.640	ppbv	100
14) Bromoethene	1.784	108	38553	8.916	ppbv	100
15) Acetone	1.836	43	113399	8.047	ppbv	100
16) 1,3-Butadiene	1.612	39	57406	8.596	ppbv	100
17) tert-Butyl alcohol	2.043	59	175630	9.130	ppbv	100
18) 1,1-Dichloroethene	2.036	96	45413	8.949	ppbv	100
19) Isopropyl Alcohol	1.887	45	75355	8.634	ppbv	97
20) Methylene Chloride	2.065	84	42212	7.620	ppbv	100
21) Allyl Chloride	2.098	41	94625	9.145	ppbv	100
22) trans-1,2-Dichloroethene	2.344	96	53146	8.761	ppbv	100
23) Vinyl Acetate	2.467	43	168706	8.218	ppbv	100
24) 1,1-Dichloroethane	2.412	63	107153	9.143	ppbv	100
25) Ethyl Acetate	2.839	43	325662	9.371	ppbv	100
26) Hexane	2.829	57	146168	9.128	ppbv	99
27) Carbon Disulfide	2.153	76	136729	9.319	ppbv	99
28) Methyl tert-Butyl Ether	2.441	73	61076	8.384	ppbv	98
29) Chloroform	2.852	83	211071	9.097	ppbv	100
30) Cyclohexane	3.862	84	126226	9.037	ppbv	100
31) cis-1,2-Dichloroethene	2.722	61	146072	9.553	ppbv	100
32) 1,1,1-Trichloroethane	3.373	97	222043	9.189	ppbv	100
34) 2-Butanone	2.557	43	207274	8.971	ppbv	100
35) Carbon Tetrachloride	3.768	117	221937	9.032	ppbv	100
36) Benzene	3.661	78	297653	9.246	ppbv	100
37) 1,2-Dichloroethane	3.221	62	165898	8.946	ppbv	100
38) Trichloroethene	4.554	130	116947	8.708	ppbv	100
39) 1,2-Dichloropropane	4.315	63	108446	9.207	ppbv	100
40) 1,4-Dioxane	4.583	88	48201	9.153	ppbv #	97
41) Tetrahydrofuran	3.056	42	117069	9.076	ppbv	100
42) Bromodichloromethane	4.496	83	238353	9.286	ppbv	100
43) Methyl Methacrylate	4.881	69	153927	9.371	ppbv	99
44) 2,2,4-Trimethylpentane	4.645	57	499148	9.273	ppbv	99
45) t-1,3-Dichloropropene	6.419	75	157856	9.620	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
 Data File : VL043105.D
 Acq On : 14 Oct 2025 10:31
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025

Quant Time: Oct 15 01:51:07 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

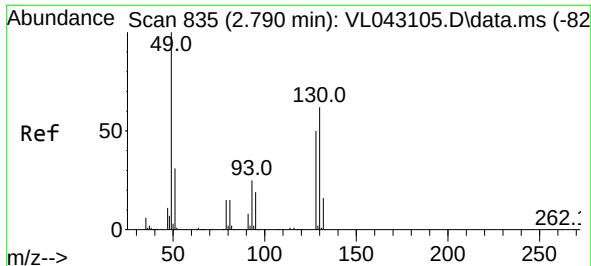
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Wed Oct 15 01:49:43 2025

Response via : Initial Calibration

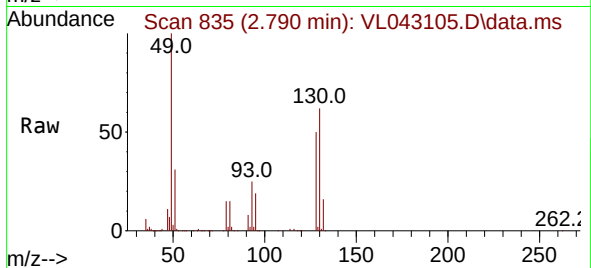
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.606	75	186533	9.525	ppbv	100
47) 1,1,2-Trichloroethane	6.584	97	115419	9.082	ppbv	100
48) Dibromochloromethane	7.390	129	201349	9.476	ppbv	100
49) Bromoform	9.487	173	166377	9.633	ppbv	100
50) 4-Methyl-2-Pentanone	5.755	43	298401	9.362	ppbv	100
51) 2-Hexanone	7.438	43	236391	9.940	ppbv	100
52) Tetrachloroethene	8.228	164	106710	9.192	ppbv	100
53) Toluene	6.940	91	354007	9.266	ppbv	100
54) 1,2-Dibromoethane	7.658	107	182074	9.080	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.927	131	182585	9.367	ppbv	100
57) Chlorobenzene	8.927	112	262566	9.076	ppbv	100
58) Ethyl Benzene	9.358	91	494344	9.241	ppbv	100
59) m/p-Xylene	9.536	91	765374m	18.067	ppbv	
60) o-Xylene	9.969	91	378462	9.053	ppbv	100
61) Styrene	9.875	104	178859	9.477	ppbv	100
62) Isopropylbenzene	10.542	105	692992	9.173	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.966	83	240245	8.582	ppbv	100
64) n-propylbenzene	10.992	120	182233	9.112	ppbv	100
65) tert-Butylbenzene	11.536	119	587750	8.810	ppbv	100
66) Benzyl Chloride	11.617	91	74574	10.009	ppbv	100
67) sec-Butylbenzene	11.769	105	834052	8.809	ppbv	100
69) p-Isopropyltoluene	11.927	119	720433	8.955	ppbv	100
70) n-Butylbenzene	12.283	91	717743	9.053	ppbv	100
71) 2-Chlorotoluene	10.905	91	524961	9.111	ppbv	100
72) 4-Ethyltoluene	11.128	105	473042	9.202	ppbv	100
73) 1,3,5-Trimethylbenzene	11.206	105	389818	9.195	ppbv	100
74) 1,2,4-Trimethylbenzene	11.539	105	411619	8.676	ppbv	100
75) 1,3-Dichlorobenzene	11.610	146	252926	9.192	ppbv	100
76) 1,4-Dichlorobenzene	11.675	146	254461	9.171	ppbv	100
77) 1,2-Dichlorobenzene	11.950	146	236724	8.893	ppbv	100
78) Hexachloro-1,3-Butadiene	13.886	225	171777	8.334	ppbv	100
79) Naphthalene	13.517	128	488672	9.972	ppbv	100
80) Naphthalene,2-methyl-	14.458	142	147897	11.431	ppbv	100
81) 1,2,4-Trichlorobenzene	13.442	180	197210	9.582	ppbv	100

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 835
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

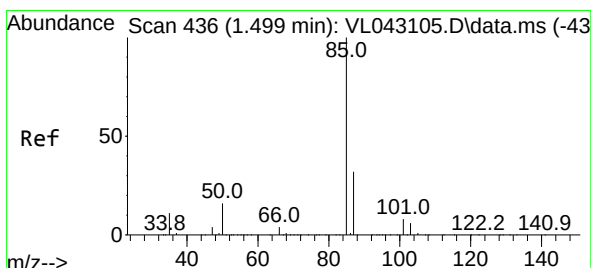
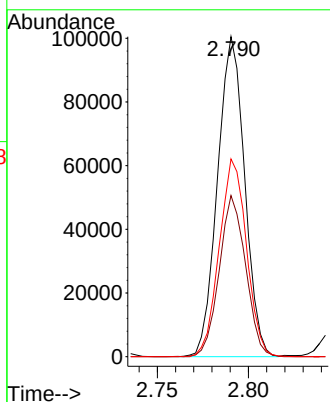
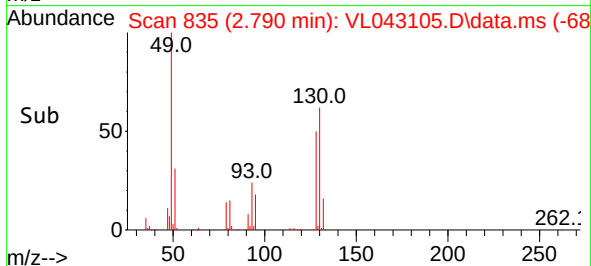
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 49 Resp: 10397
Ion Ratio Lower Upper
49 100
128 48.9 24.4 73.4
130 62.0 31.0 93.0

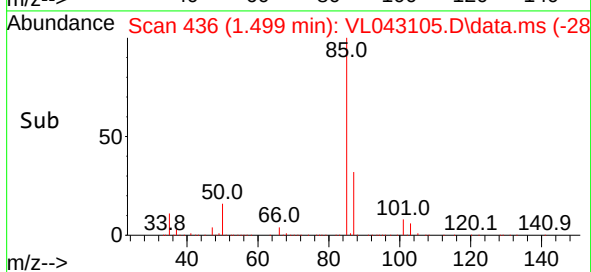
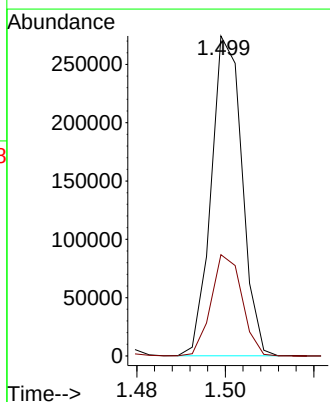
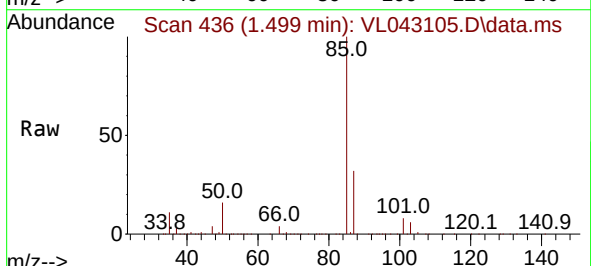
Manual Integrations
APPROVED

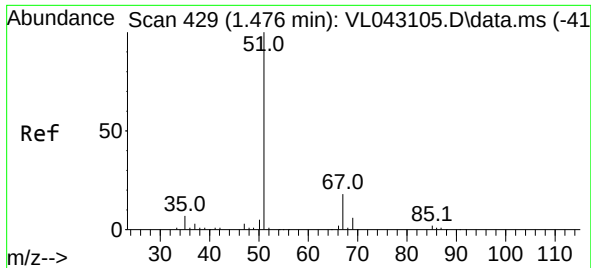
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#2
Dichlorodifluoromethane
Concen: 8.987 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 85 Resp: 132845
Ion Ratio Lower Upper
85 100
87 31.6 25.3 37.9





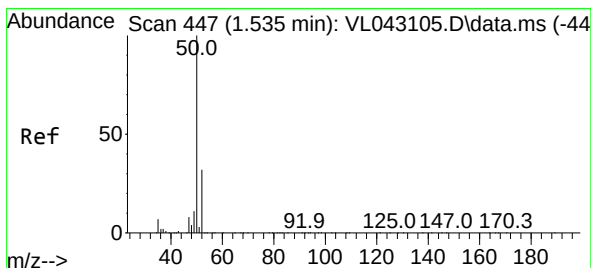
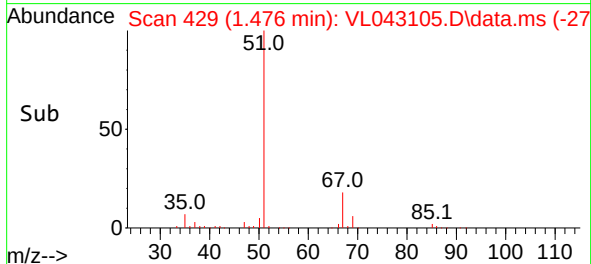
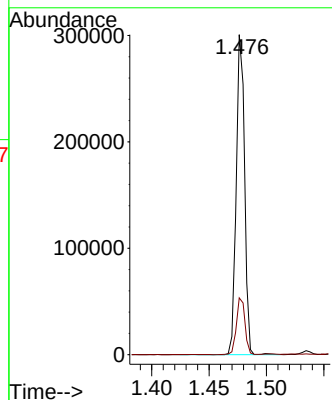
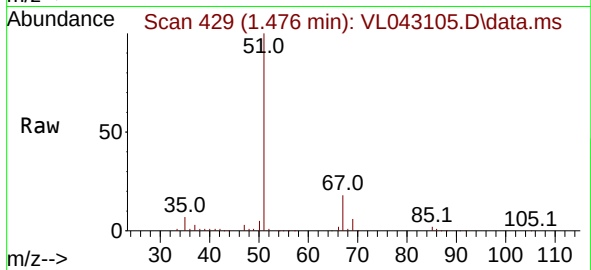
#3
Chlorodifluoromethane
Concen: 9.431 ppbv
RT: 1.476 min Scan# 429
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 51 Resp: 150832
Ion Ratio Lower Upper
51 100
67 18.9 15.1 22.7

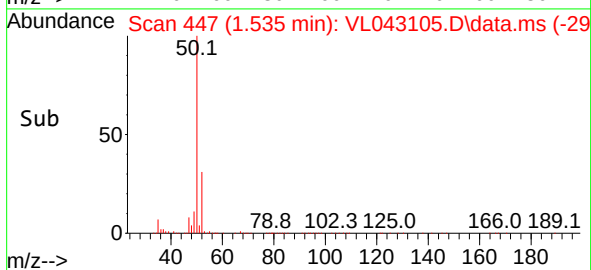
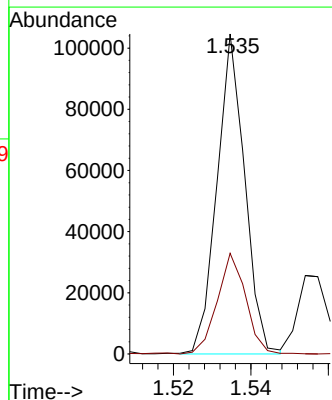
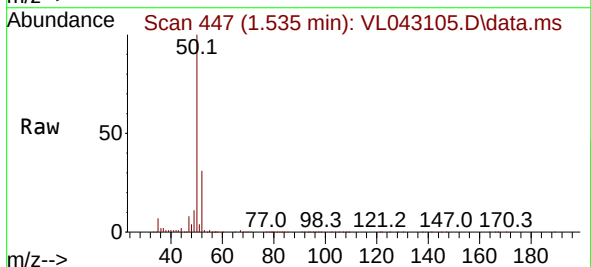
Manual Integrations
APPROVED

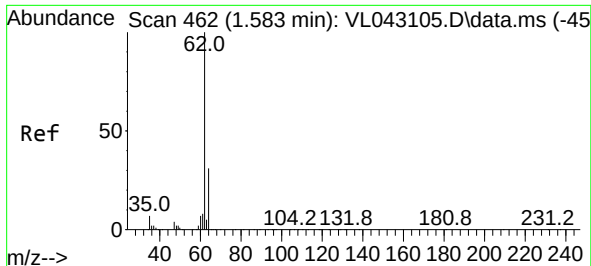
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#4
Chloromethane
Concen: 8.869 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

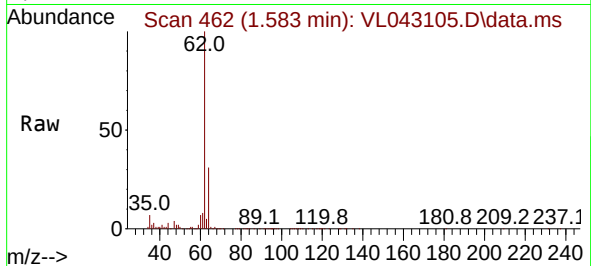
Tgt Ion: 50 Resp: 51934
Ion Ratio Lower Upper
50 100
52 31.5 25.2 37.8





#5
 Vinyl Chloride
 Concen: 8.713 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. 0.000 min
 Lab File: VL043105.D
 Acq: 14 Oct 2025 10:31

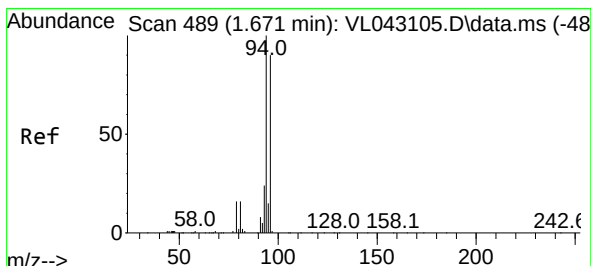
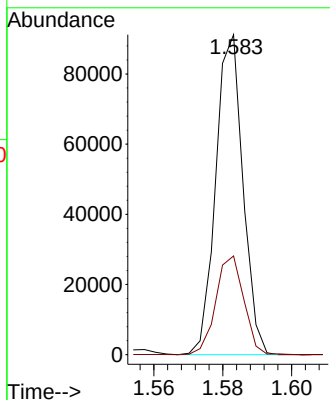
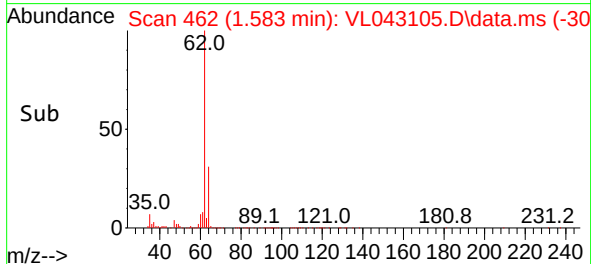
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



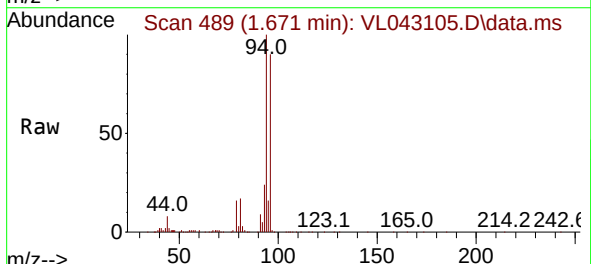
Tgt Ion: 62 Resp: 50044
 Ion Ratio Lower Upper
 62 100
 64 30.7 24.6 36.8

Manual Integrations
 APPROVED

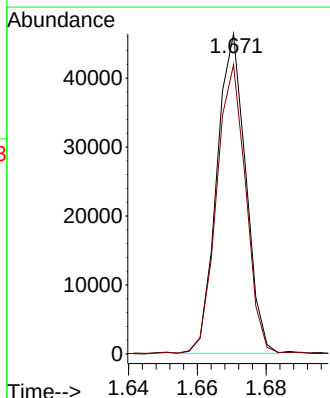
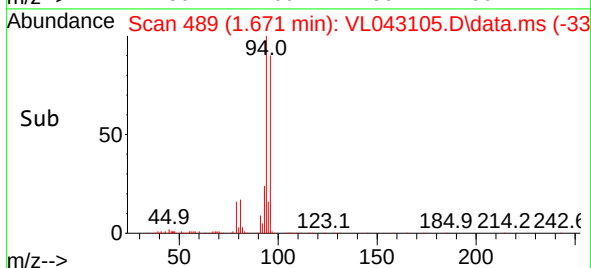
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025

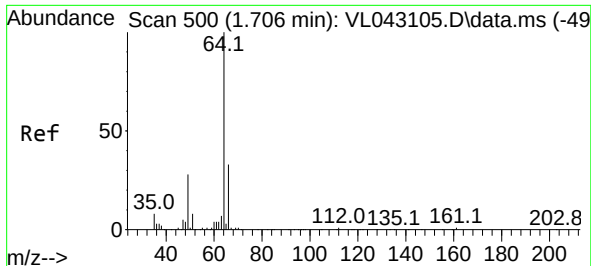


#6
 Bromomethane
 Concen: 8.593 ppbv
 RT: 1.671 min Scan# 489
 Delta R.T. 0.000 min
 Lab File: VL043105.D
 Acq: 14 Oct 2025 10:31



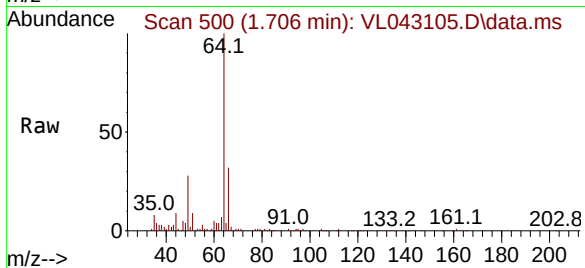
Tgt Ion: 94 Resp: 27062
 Ion Ratio Lower Upper
 94 100
 96 90.3 72.2 108.4





#7
Chloroethane
Concen: 8.492 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

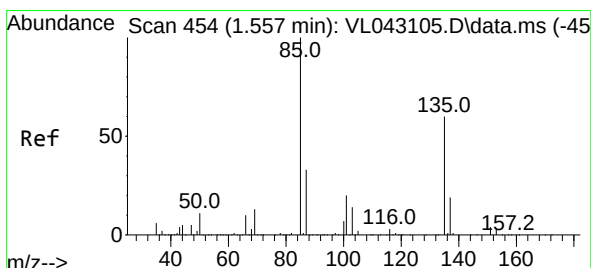
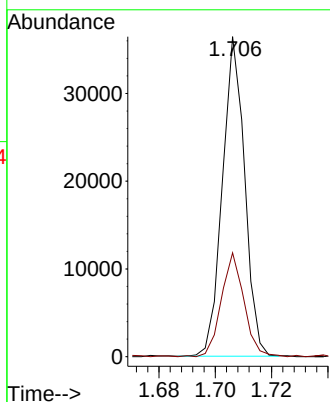
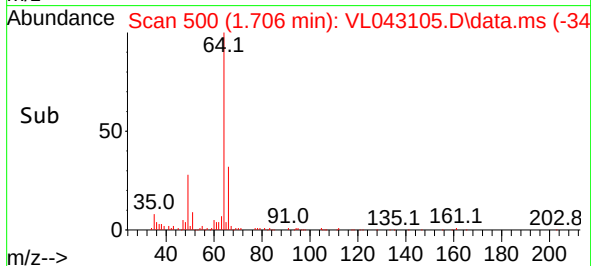
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 64 Resp: 1994
Ion Ratio Lower Upper
64 100
66 32.5 26.0 39.0

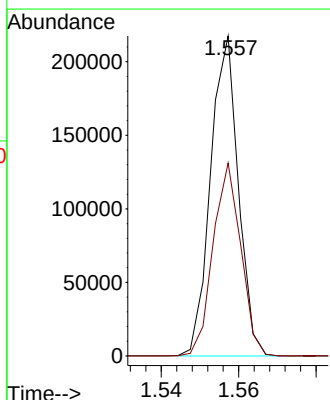
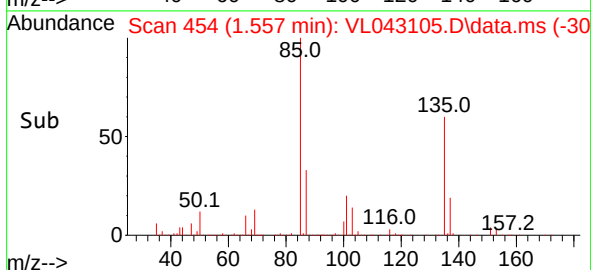
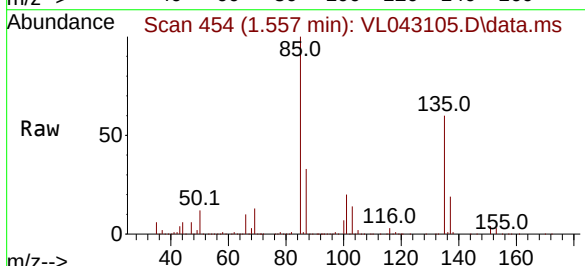
Manual Integrations
APPROVED

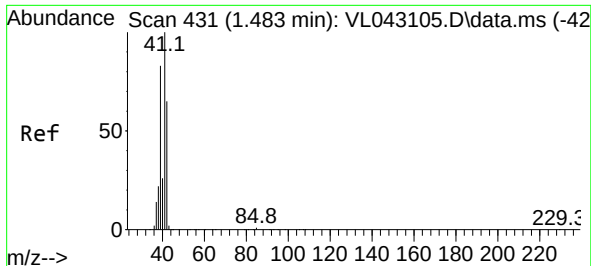
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#8
Dichlorotetrafluoroethane
Concen: 9.049 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 85 Resp: 108109
Ion Ratio Lower Upper
85 100
135 60.3 48.2 72.4





#9

Propene

Concen: 9.602 ppbv

RT: 1.483 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 41 Resp: 68110

Ion Ratio Lower Upper

41 100

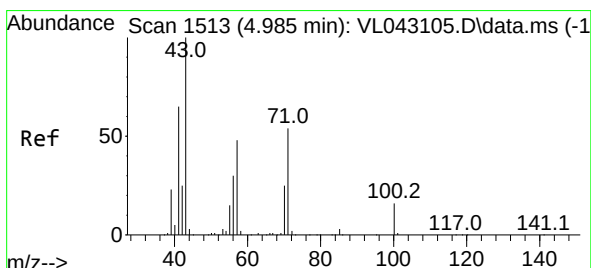
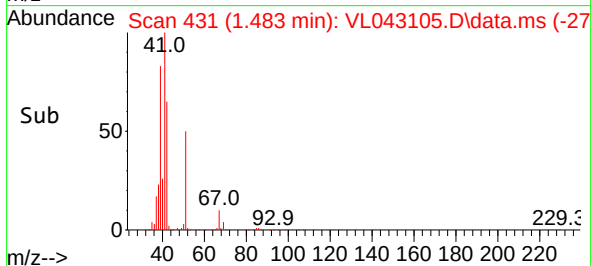
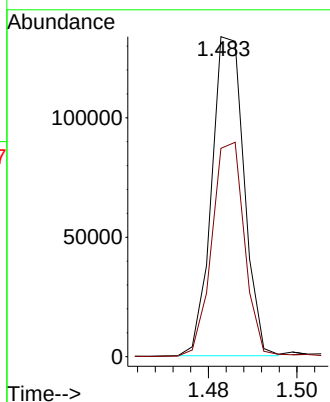
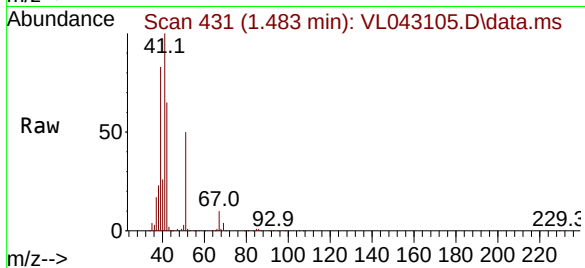
42 68.9 55.1 82.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#10

Heptane

Concen: 9.217 ppbv

RT: 4.985 min Scan# 1513

Delta R.T. 0.000 min

Lab File: VL043105.D

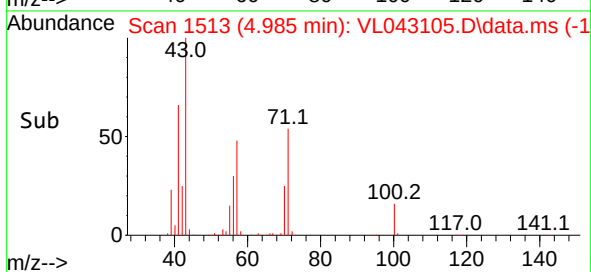
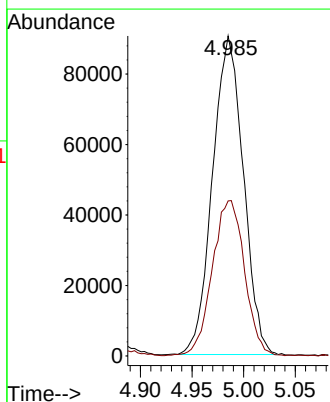
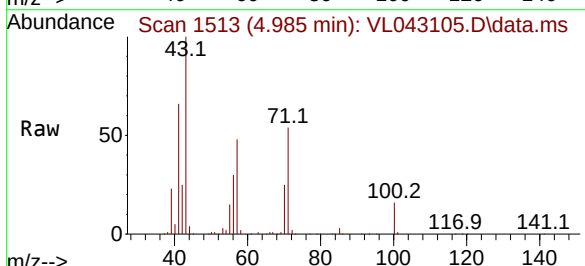
Acq: 14 Oct 2025 10:31

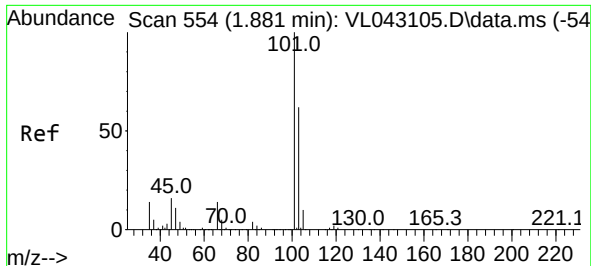
Tgt Ion: 43 Resp: 187423

Ion Ratio Lower Upper

43 100

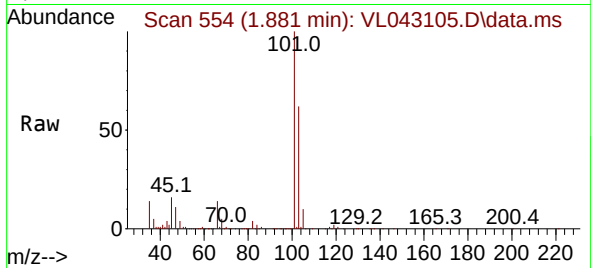
57 50.9 40.8 61.2





#11
 Trichlorofluoromethane
 Concen: 8.935 ppbv
 RT: 1.881 min Scan# 554
 Delta R.T. 0.000 min
 Lab File: VL043105.D
 Acq: 14 Oct 2025 10:31

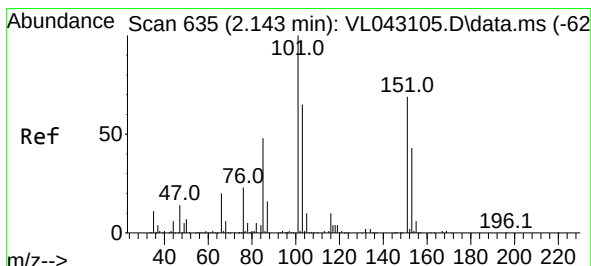
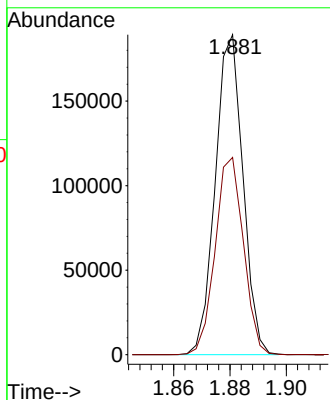
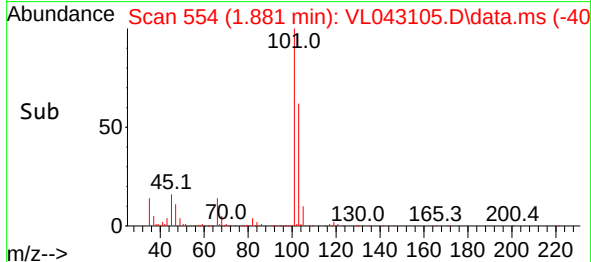
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



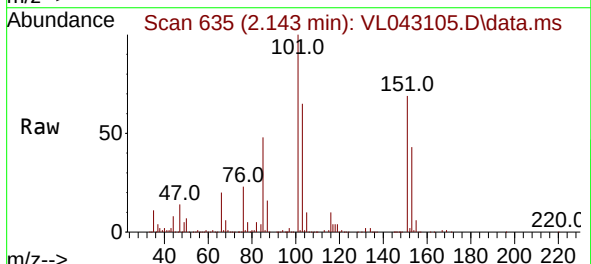
Tgt Ion:101 Resp: 129180
 Ion Ratio Lower Upper
 101 100
 103 61.6 49.3 73.9

Manual Integrations
 APPROVED

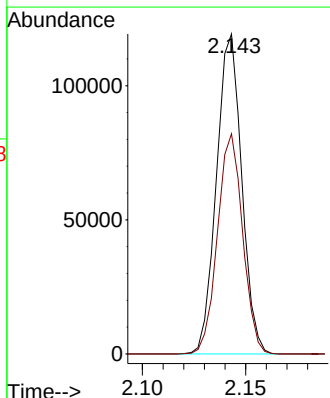
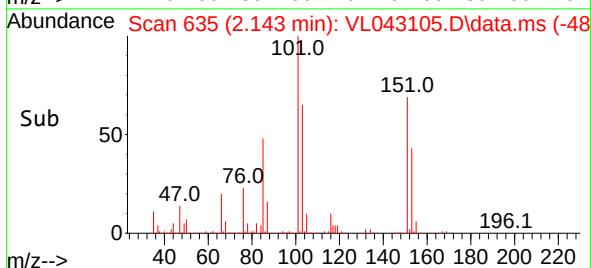
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025

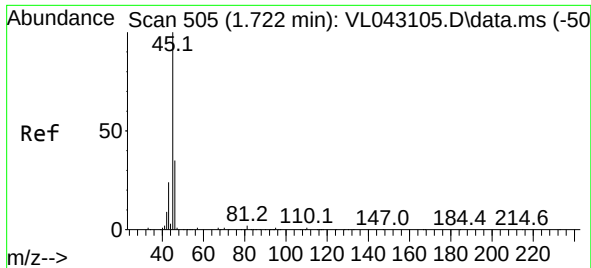


#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 8.715 ppbv
 RT: 2.143 min Scan# 635
 Delta R.T. 0.000 min
 Lab File: VL043105.D
 Acq: 14 Oct 2025 10:31



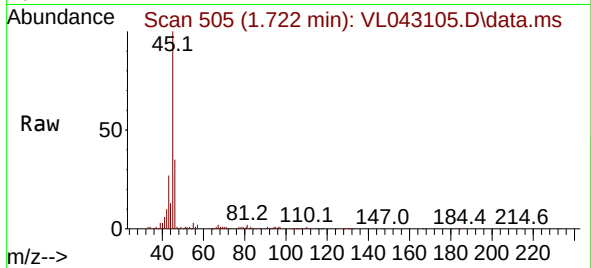
Tgt Ion:101 Resp: 101442
 Ion Ratio Lower Upper
 101 100
 151 68.4 54.7 82.1





#13
Ethanol
Concen: 7.640 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

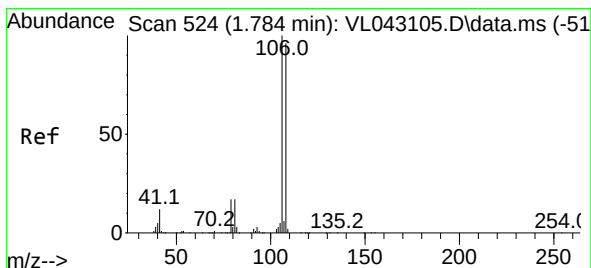
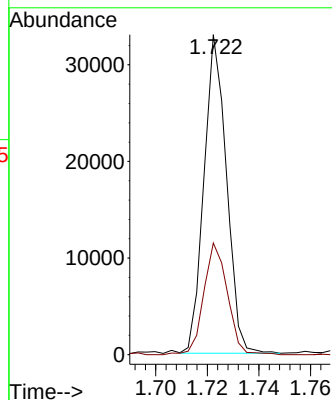
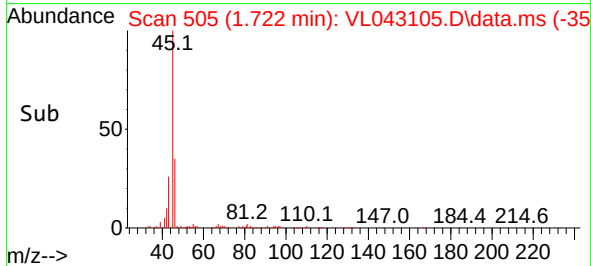
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



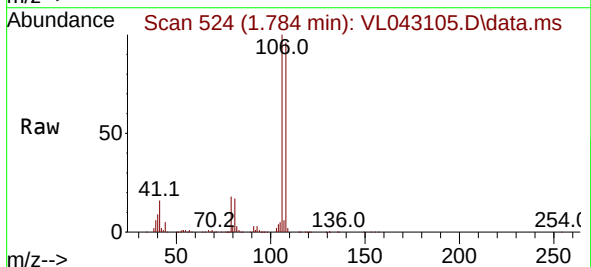
Tgt Ion: 45 Resp: 20045
Ion Ratio Lower Upper
45 100
46 36.8 14.7 58.9

Manual Integrations
APPROVED

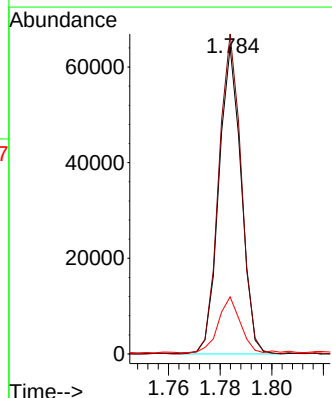
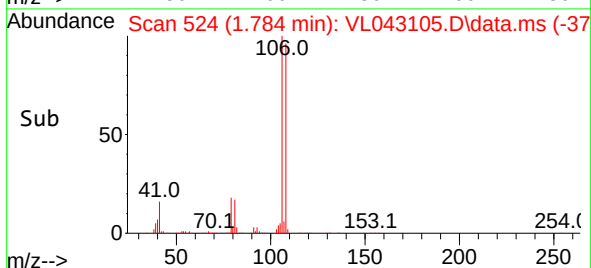
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

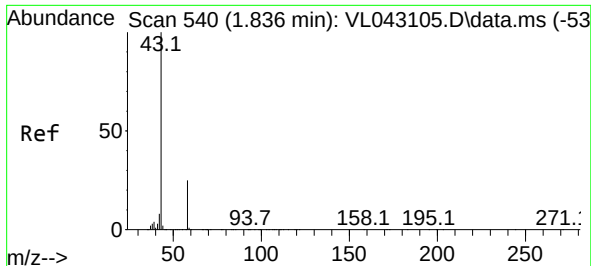


#14
Bromoethene
Concen: 8.916 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31



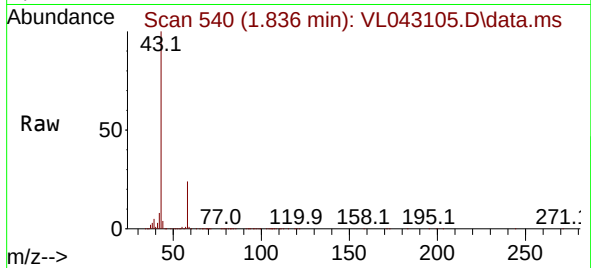
Tgt Ion:108 Resp: 38553
Ion Ratio Lower Upper
108 100
106 105.5 84.4 126.6
79 19.1 15.3 22.9





#15
Acetone
Concen: 8.047 ppbv
RT: 1.836 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

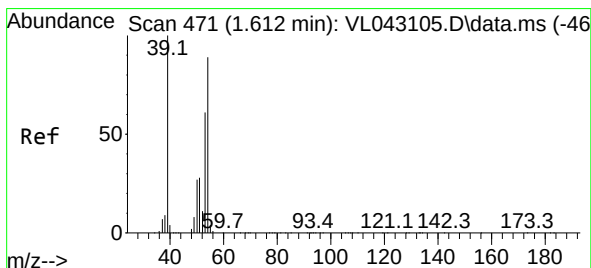
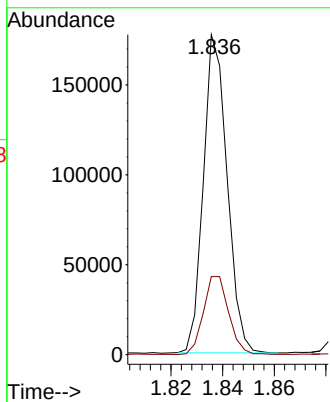
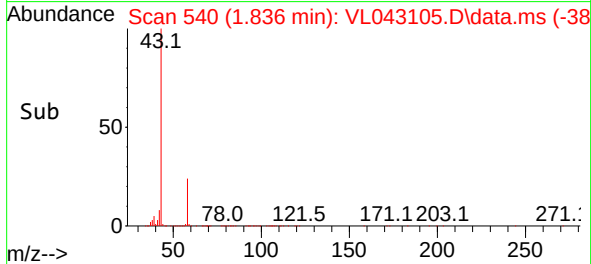
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 43 Resp: 113399
Ion Ratio Lower Upper
43 100
58 26.0 20.8 31.2

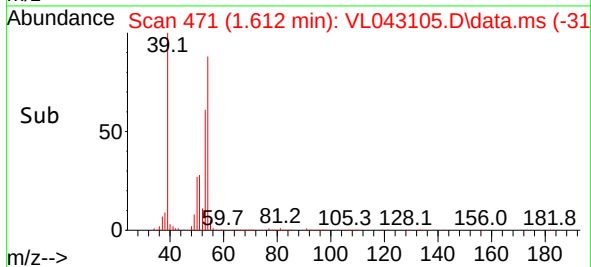
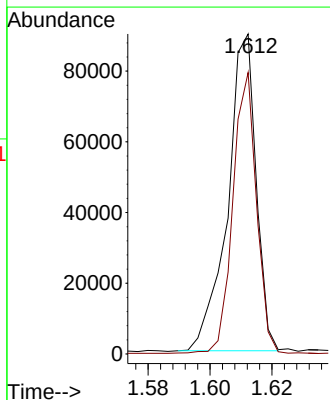
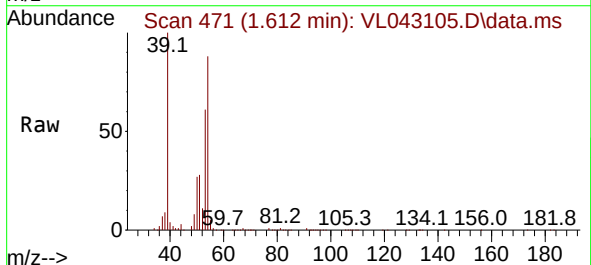
Manual Integrations
APPROVED

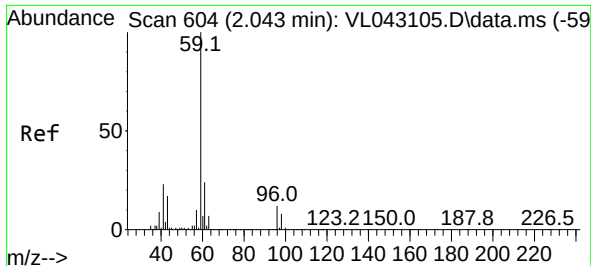
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#16
1,3-Butadiene
Concen: 8.596 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 39 Resp: 57406
Ion Ratio Lower Upper
39 100
54 73.7 59.0 88.4





#17

tert-Butyl alcohol

Concen: 9.130 ppbv

RT: 2.043 min Scan# 604

Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 59 Resp: 175630

Ion Ratio Lower Upper

59 100

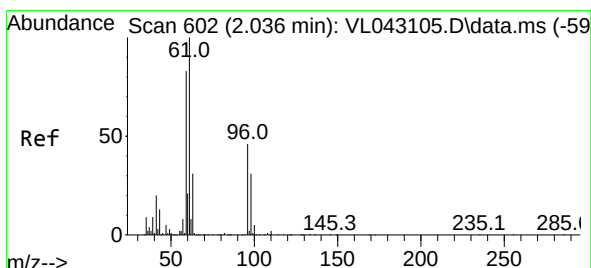
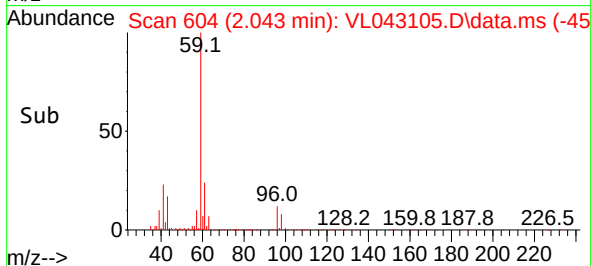
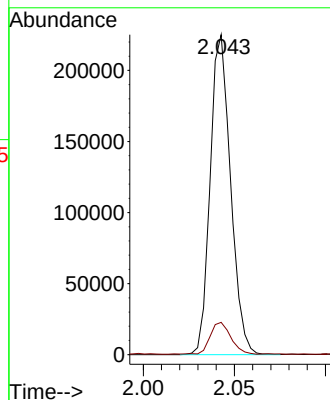
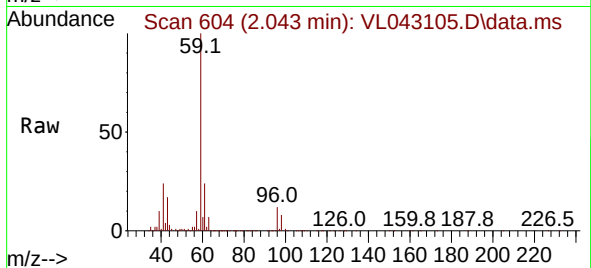
57 10.3 8.2 12.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#18

1,1-Dichloroethene

Concen: 8.949 ppbv

RT: 2.036 min Scan# 602

Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

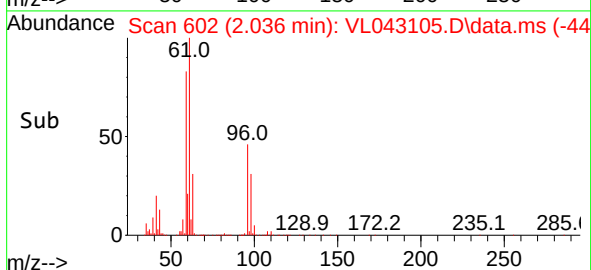
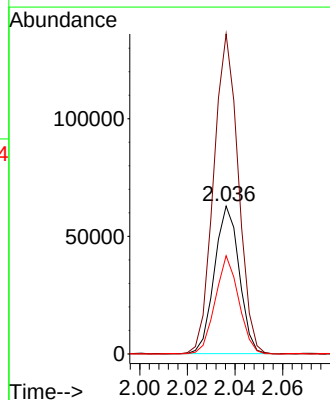
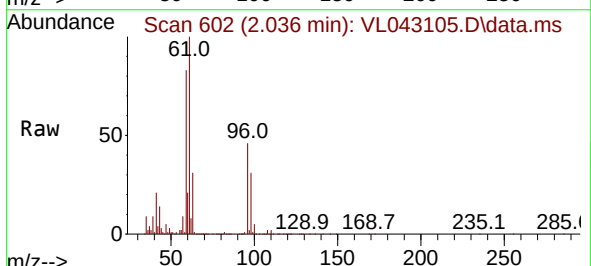
Tgt Ion: 96 Resp: 45413

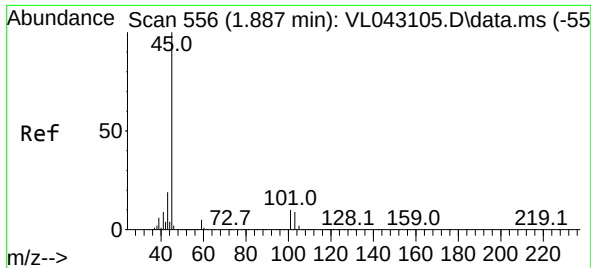
Ion Ratio Lower Upper

96 100

61 216.7 173.4 260.0

98 66.5 53.2 79.8





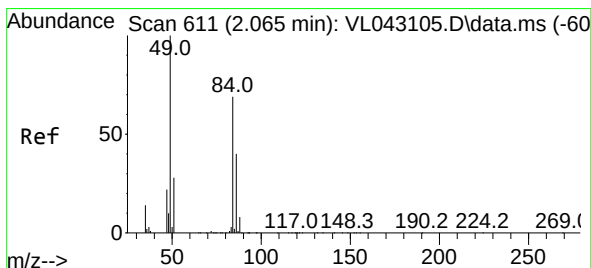
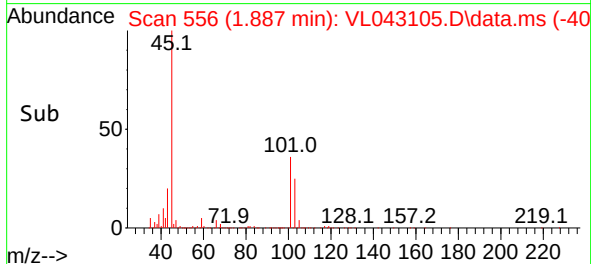
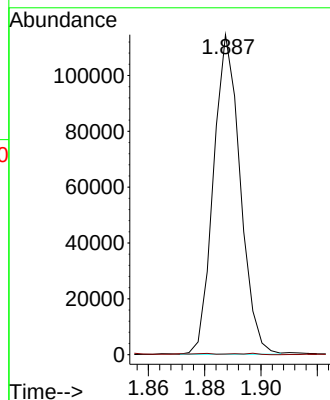
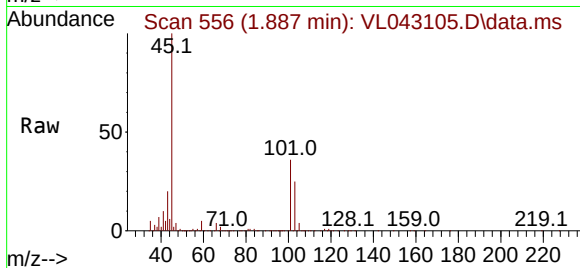
#19
Isopropyl Alcohol
Concen: 8.634 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 45 Resp: 7535
Ion Ratio Lower Upper
45 100
58 41.1 31.3 46.9

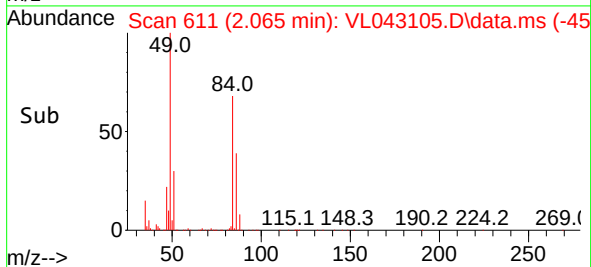
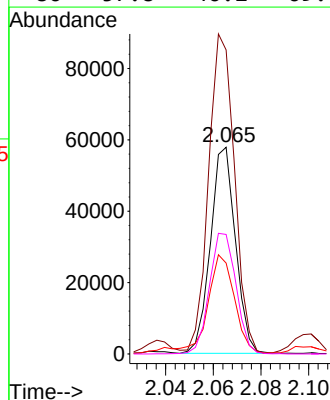
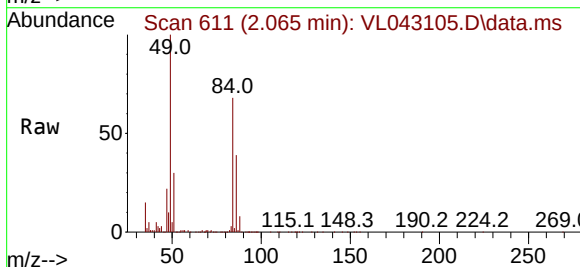
Manual Integrations
APPROVED

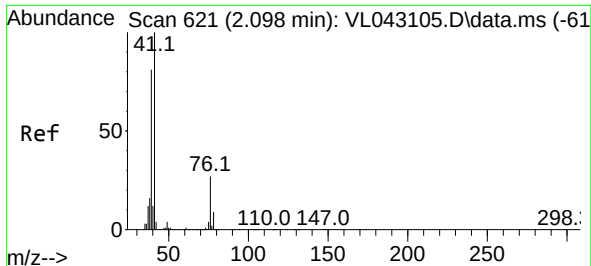
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#20
Methylene Chloride
Concen: 7.620 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 84 Resp: 42212
Ion Ratio Lower Upper
84 100
49 145.8 116.6 175.0
51 43.5 34.8 52.2
86 57.8 46.2 69.4





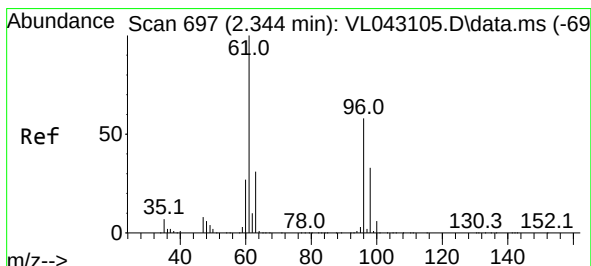
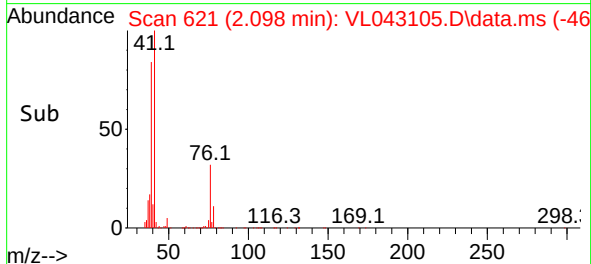
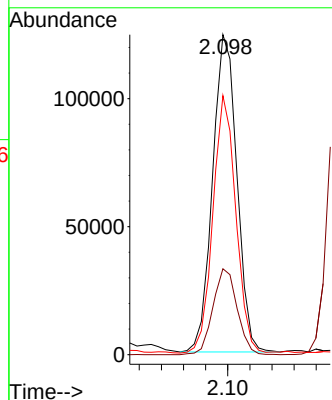
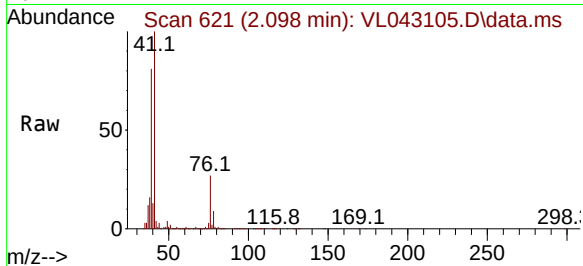
#21
 Allyl Chloride
 Concen: 9.145 ppbv
 RT: 2.098 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: VL043105.D
 Acq: 14 Oct 2025 10:31

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tgt Ion: 41 Resp: 9462
 Ion Ratio Lower Upper
 41 100
 76 26.9 21.5 32.3
 39 76.4 60.8 91.2

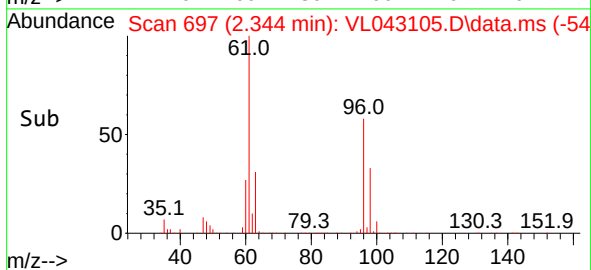
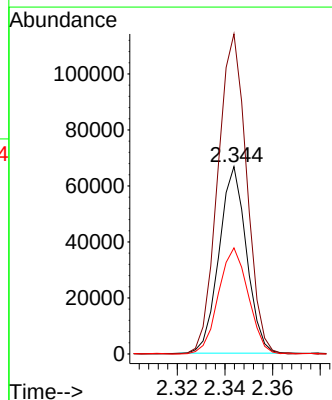
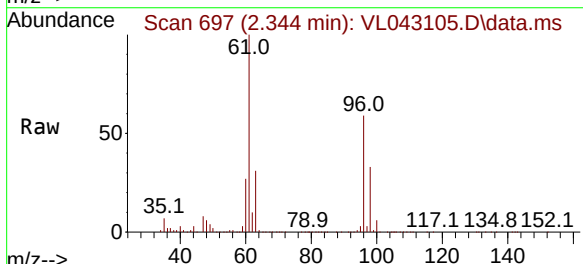
Manual Integrations
 APPROVED

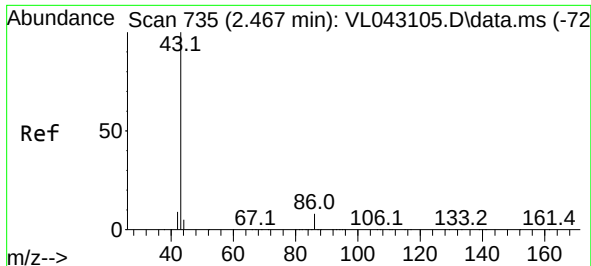
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025



#22
 trans-1,2-Dichloroethene
 Concen: 8.761 ppbv
 RT: 2.344 min Scan# 697
 Delta R.T. 0.000 min
 Lab File: VL043105.D
 Acq: 14 Oct 2025 10:31

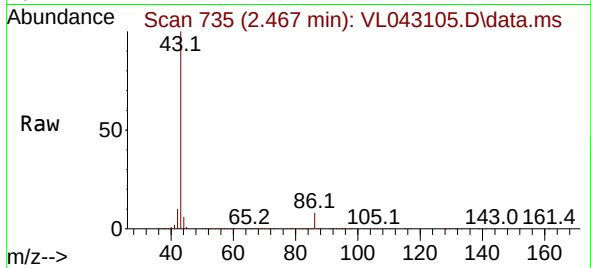
Tgt Ion: 96 Resp: 53146
 Ion Ratio Lower Upper
 96 100
 61 171.3 137.0 205.6
 98 56.9 45.5 68.3





#23
 Vinyl Acetate
 Concen: 8.218 ppbv
 RT: 2.467 min Scan# 718
 Delta R.T. 0.000 min
 Lab File: VL043105.D
 Acq: 14 Oct 2025 10:31

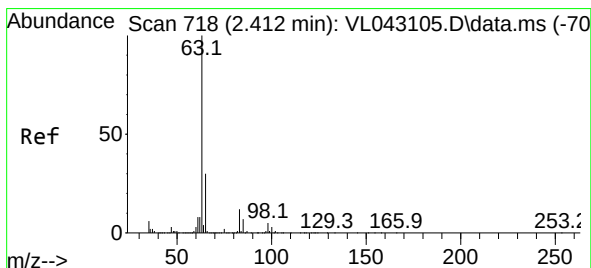
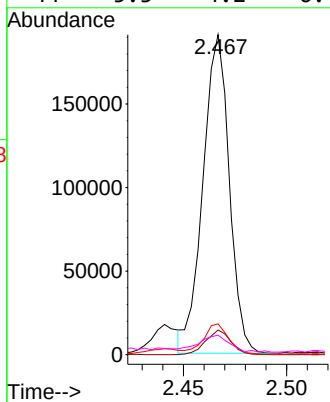
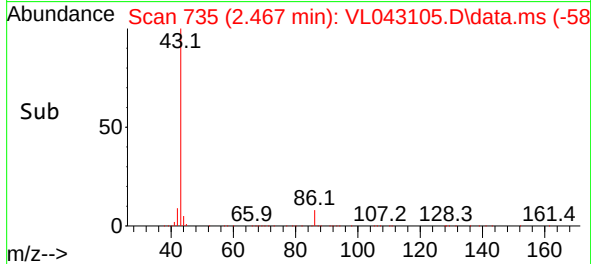
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010



Tgt Ion: 43 Resp: 168700
 Ion Ratio Lower Upper
 43 100
 86 7.7 6.2 9.2
 42 9.5 7.6 11.4
 44 5.3 4.2 6.4

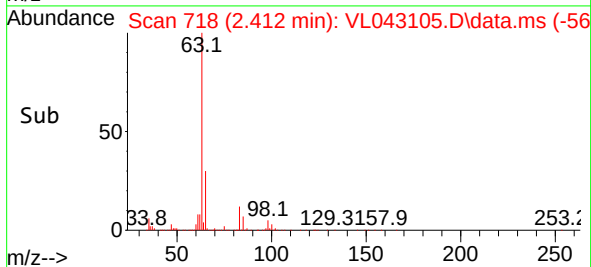
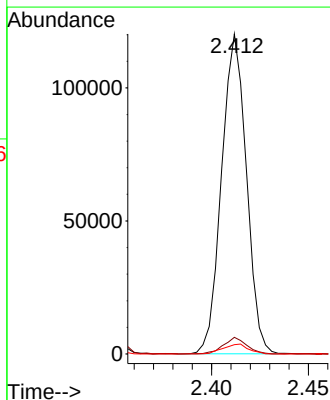
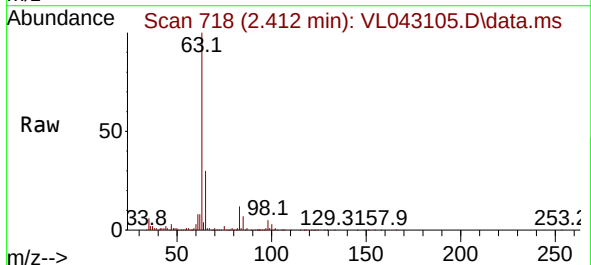
Manual Integrations
 APPROVED

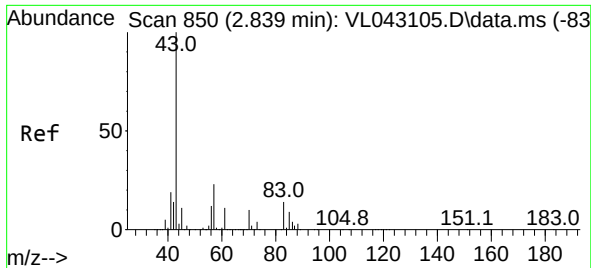
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025



#24
 1,1-Dichloroethane
 Concen: 9.143 ppbv
 RT: 2.412 min Scan# 718
 Delta R.T. 0.000 min
 Lab File: VL043105.D
 Acq: 14 Oct 2025 10:31

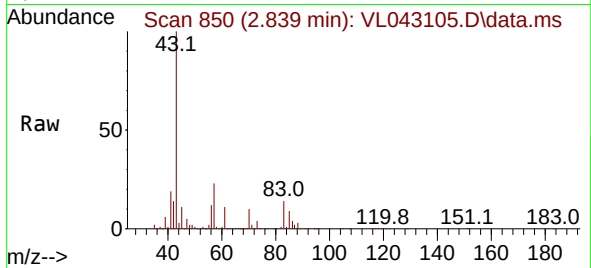
Tgt Ion: 63 Resp: 107153
 Ion Ratio Lower Upper
 63 100
 98 5.2 2.6 7.8
 100 2.9 1.5 4.4





#25
Ethyl Acetate
Concen: 9.371 ppbv
RT: 2.839 min Scan# 850
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

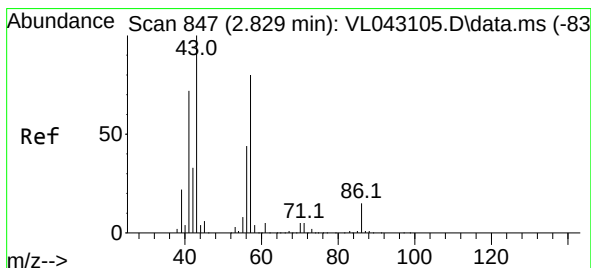
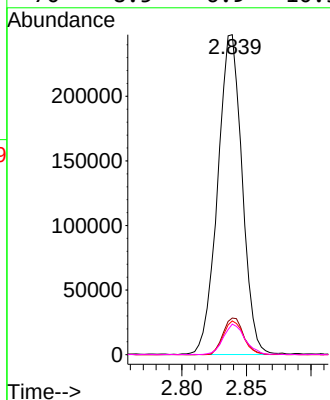
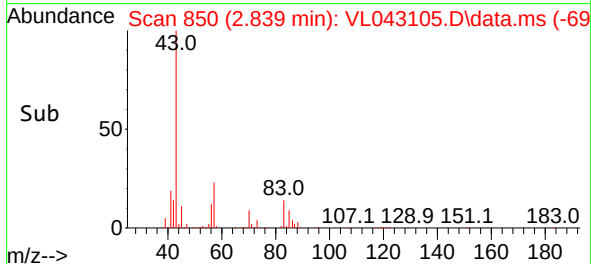
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 43 Resp: 325662
Ion Ratio Lower Upper
43 100
45 9.8 7.8 11.8
61 8.8 7.0 10.6
70 8.5 6.9 10.3

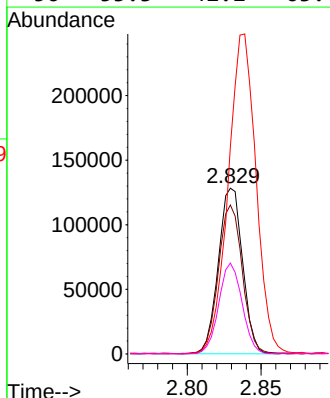
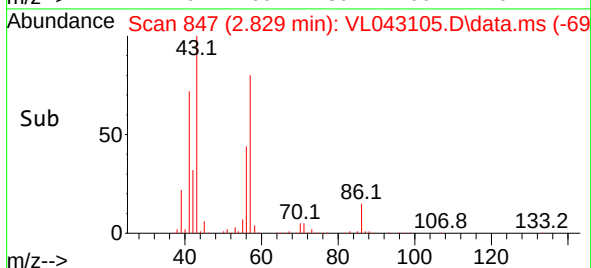
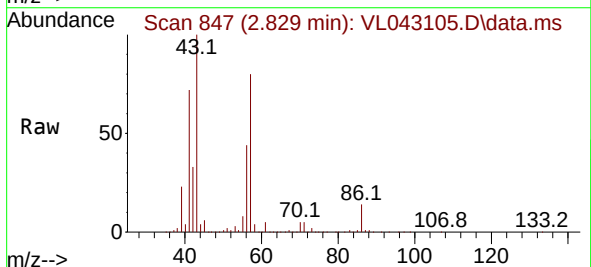
Manual Integrations
APPROVED

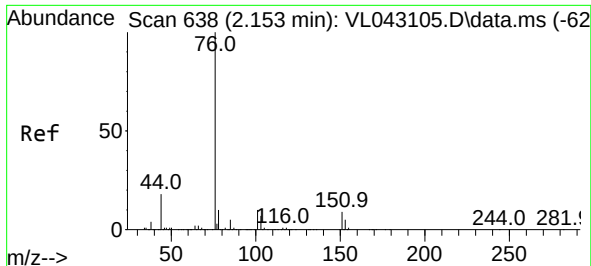
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#26
Hexane
Concen: 9.128 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

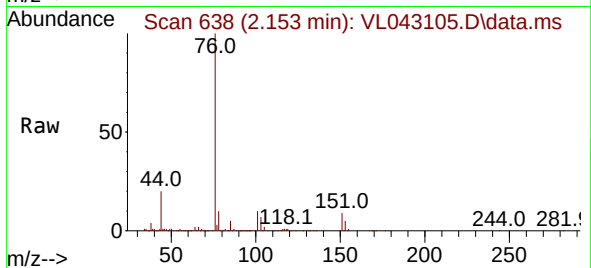
Tgt Ion: 57 Resp: 146168
Ion Ratio Lower Upper
57 100
41 90.2 71.4 107.0
43 222.4 178.5 267.7
56 53.3 42.2 63.4





#27
Carbon Disulfide
Concen: 9.319 ppbv
RT: 2.153 min Scan# 638
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

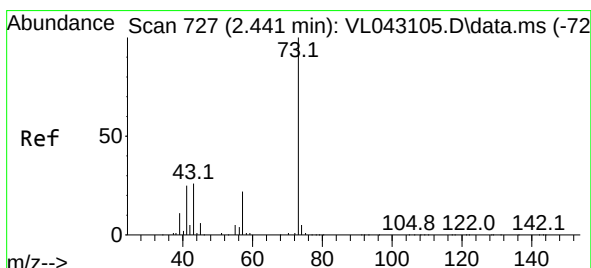
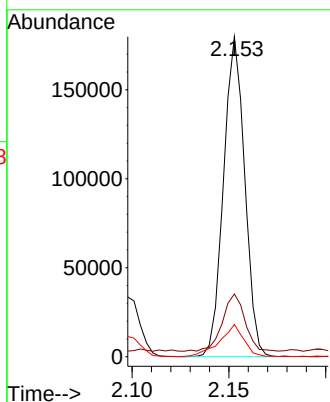
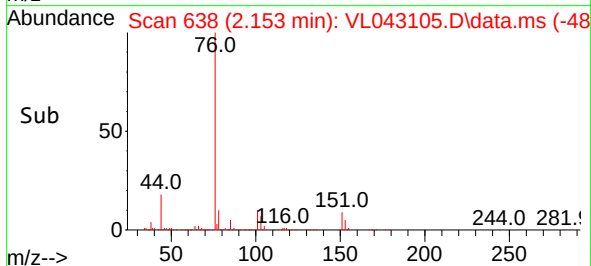
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 76 Resp: 136729
Ion Ratio Lower Upper
76 100
44 20.1 16.7 25.1
78 11.5 9.3 13.9

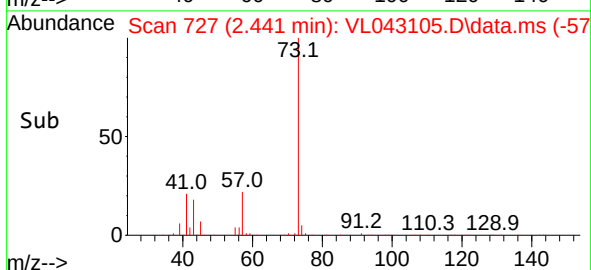
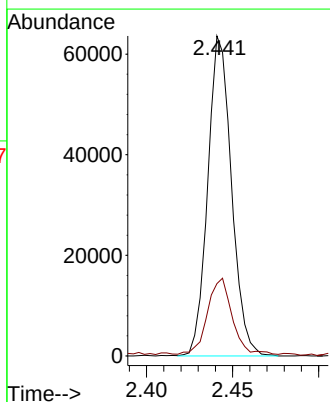
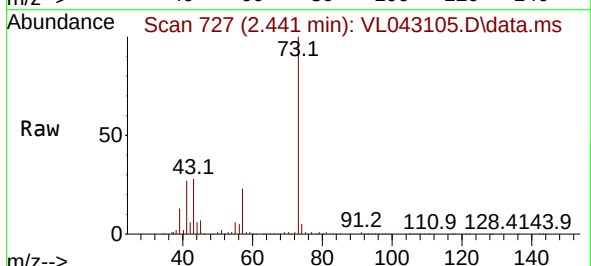
Manual Integrations
APPROVED

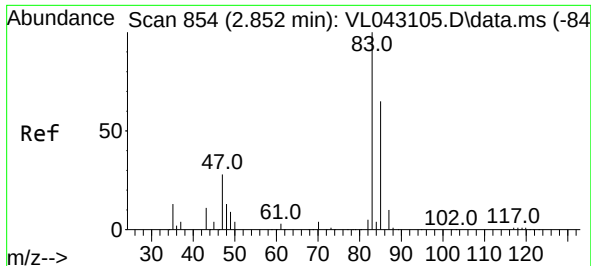
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#28
Methyl tert-Butyl Ether
Concen: 8.384 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

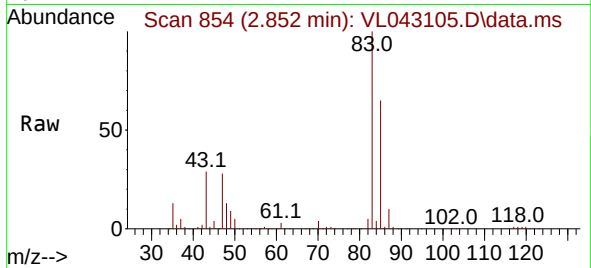
Tgt Ion: 73 Resp: 61076
Ion Ratio Lower Upper
73 100
57 24.8 20.5 30.7





#29
Chloroform
Concen: 9.097 ppbv
RT: 2.852 min Scan# 854
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

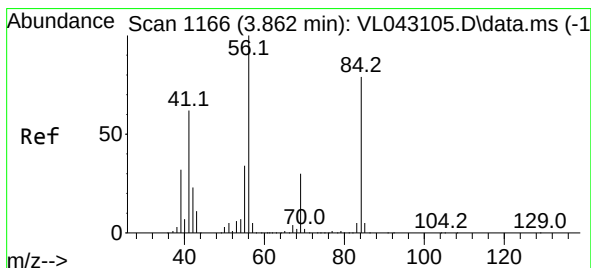
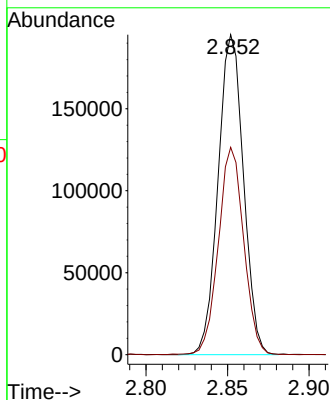
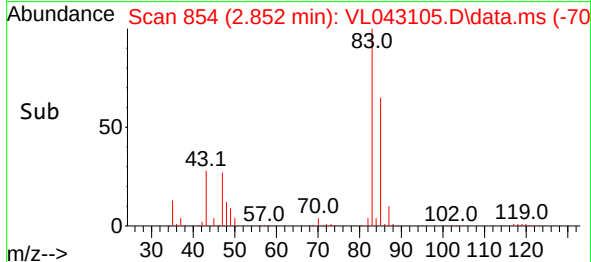
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 83 Resp: 21107
Ion Ratio Lower Upper
83 100
85 64.7 51.8 77.6

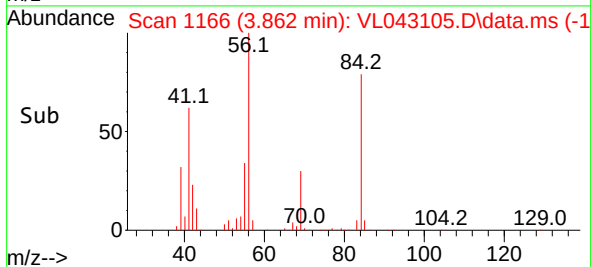
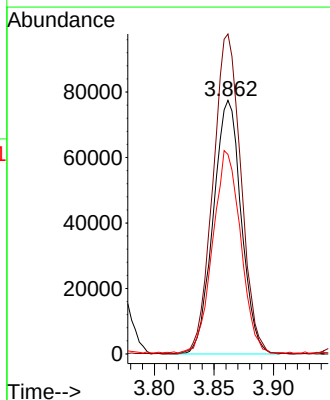
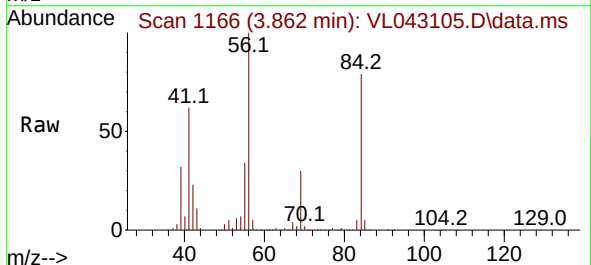
Manual Integrations
APPROVED

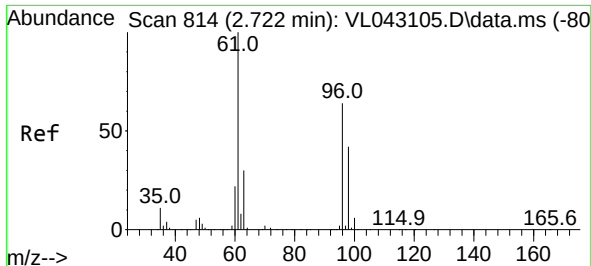
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#30
Cyclohexane
Concen: 9.037 ppbv
RT: 3.862 min Scan# 1166
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

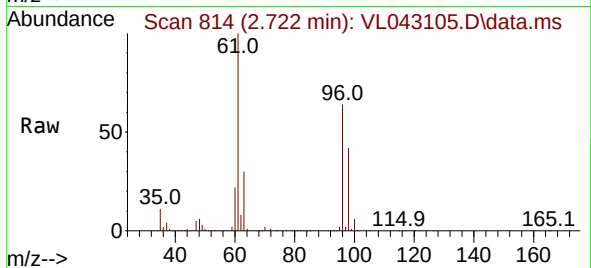
Tgt Ion: 84 Resp: 126226
Ion Ratio Lower Upper
84 100
56 126.5 100.9 151.3
41 79.8 63.8 95.6





#31
 cis-1,2-Dichloroethene
 Concen: 9.553 ppbv
 RT: 2.722 min Scan# 814
 Delta R.T. 0.000 min
 Lab File: VL043105.D
 Acq: 14 Oct 2025 10:31

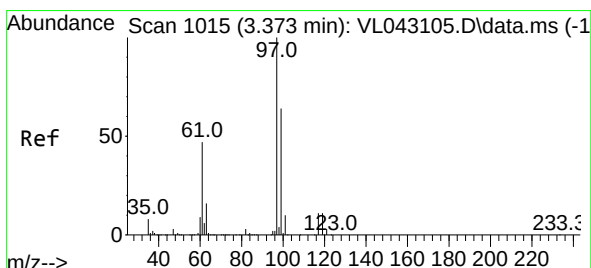
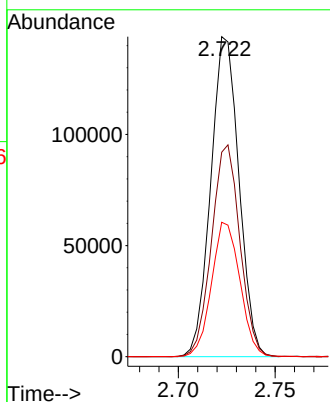
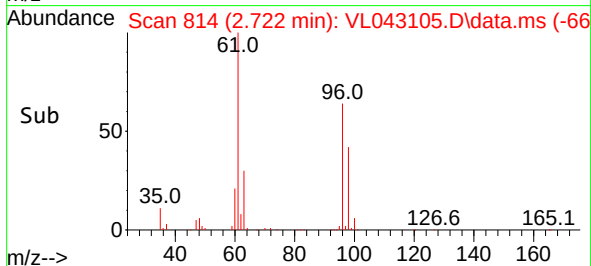
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



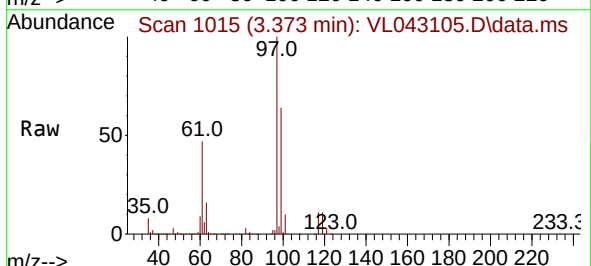
Tgt Ion: 61 Resp: 146072
 Ion Ratio Lower Upper
 61 100
 96 63.8 51.0 76.6
 98 41.9 33.5 50.3

Manual Integrations
 APPROVED

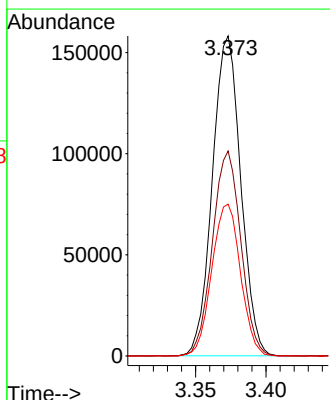
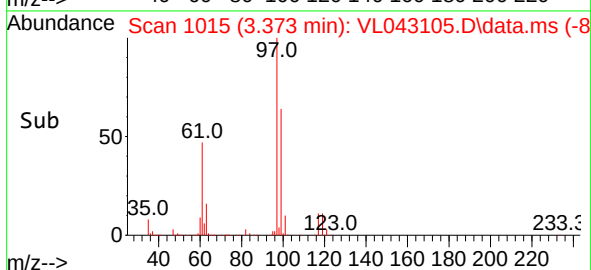
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025

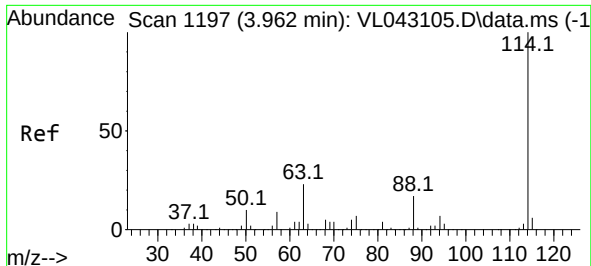


#32
 1,1,1-Trichloroethane
 Concen: 9.189 ppbv
 RT: 3.373 min Scan# 1015
 Delta R.T. 0.000 min
 Lab File: VL043105.D
 Acq: 14 Oct 2025 10:31



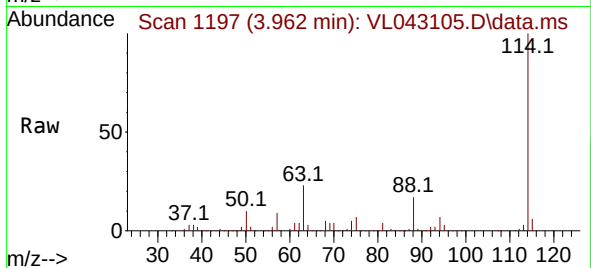
Tgt Ion: 97 Resp: 222043
 Ion Ratio Lower Upper
 97 100
 99 64.1 51.3 76.9
 61 48.0 38.4 57.6





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

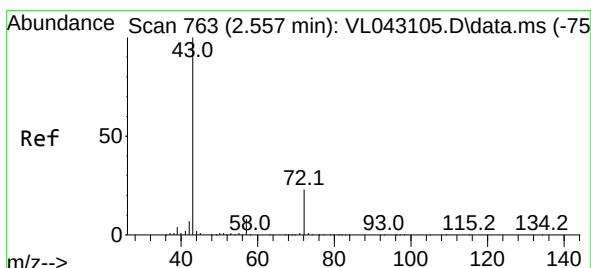
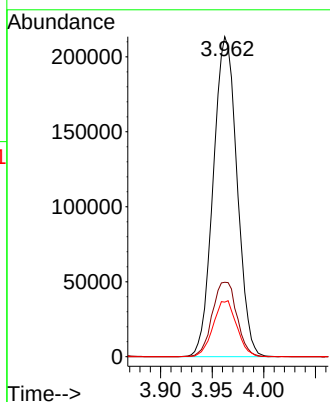
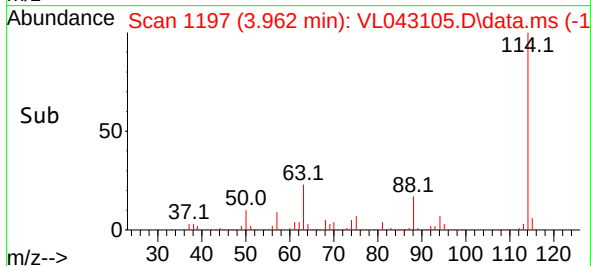
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion:114 Resp: 341790
Ion Ratio Lower Upper
114 100
63 24.1 19.3 28.9
88 17.4 13.9 20.9

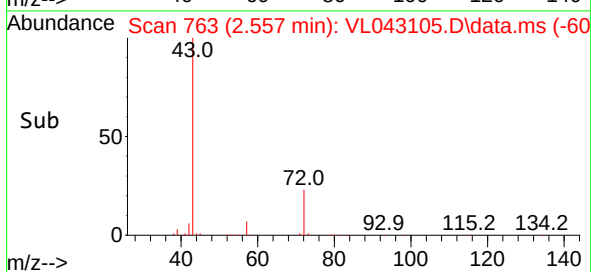
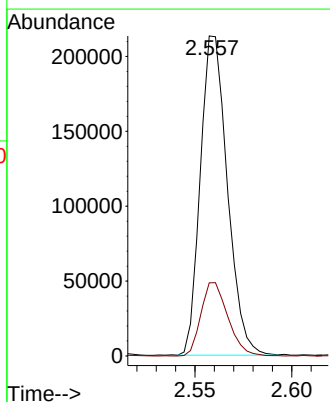
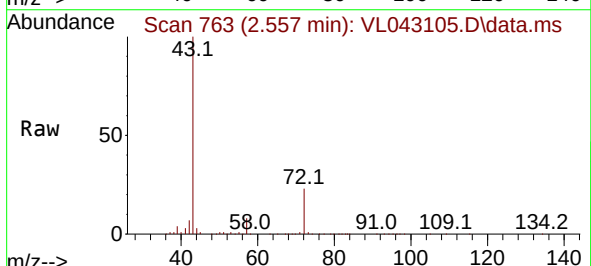
Manual Integrations
APPROVED

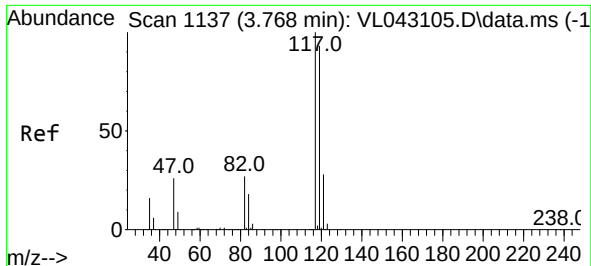
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#34
2-Butanone
Concen: 8.971 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

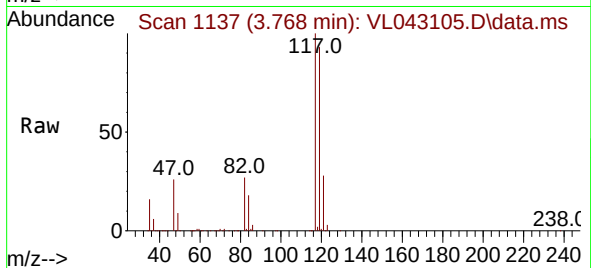
Tgt Ion: 43 Resp: 207274
Ion Ratio Lower Upper
43 100
72 22.8 18.4 27.6





#35
Carbon Tetrachloride
Concen: 9.032 ppbv
RT: 3.768 min Scan# 1137
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

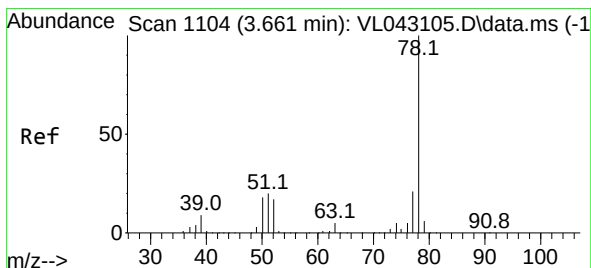
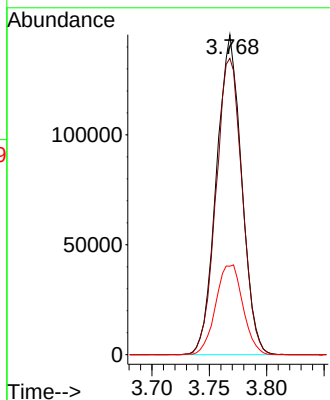
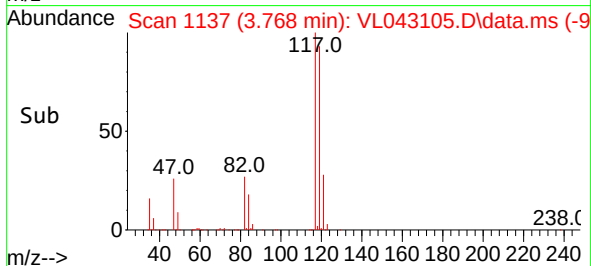
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 117 Resp: 221937
Ion Ratio Lower Upper
117 100
119 92.6 74.1 111.1
121 27.7 22.2 33.2

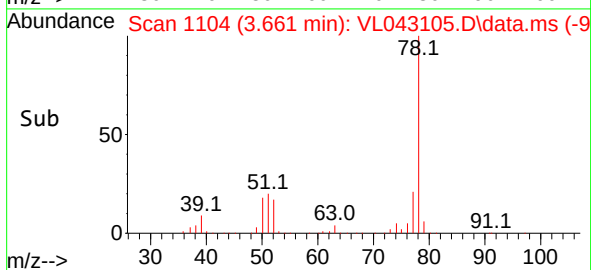
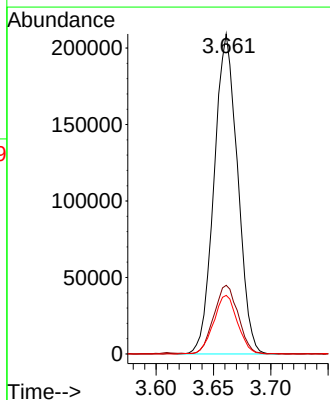
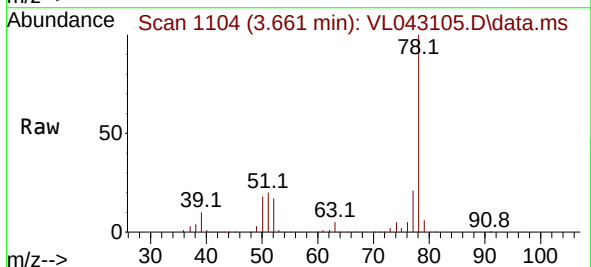
Manual Integrations
APPROVED

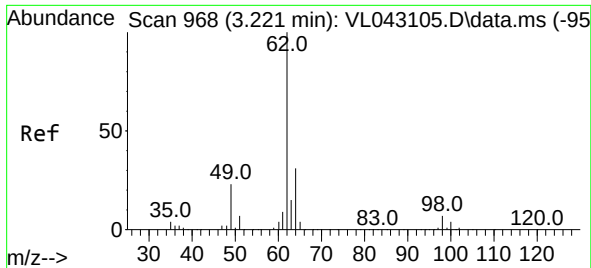
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#36
Benzene
Concen: 9.246 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

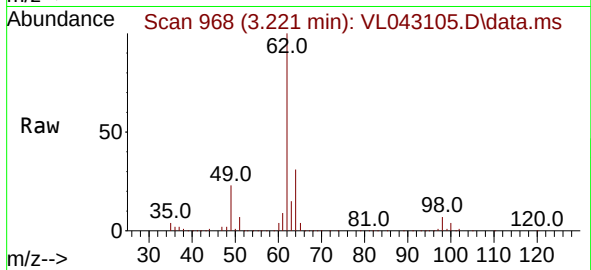
Tgt Ion: 78 Resp: 297653
Ion Ratio Lower Upper
78 100
77 21.3 17.0 25.6
50 18.3 14.6 22.0





#37
1,2-Dichloroethane
Concen: 8.946 ppbv
RT: 3.221 min Scan# 968
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

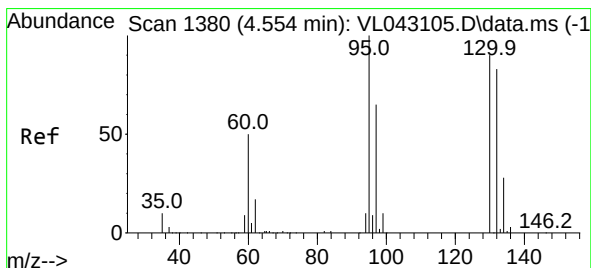
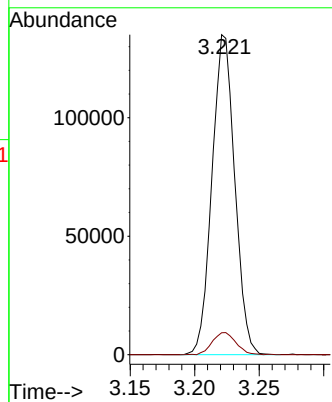
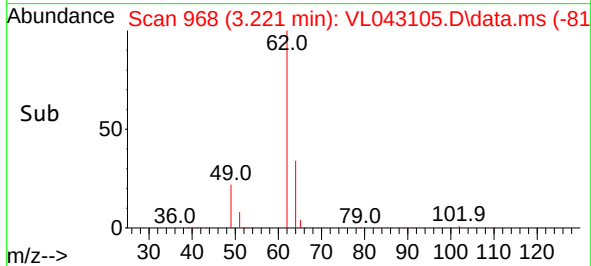
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 62 Resp: 165898
Ion Ratio Lower Upper
62 100
98 7.2 5.8 8.6

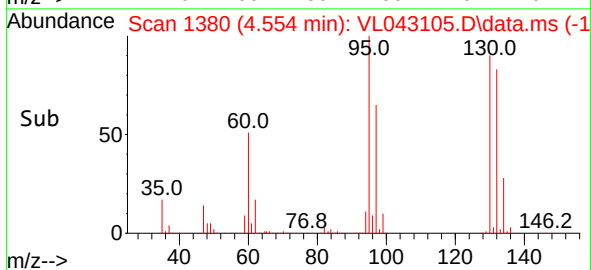
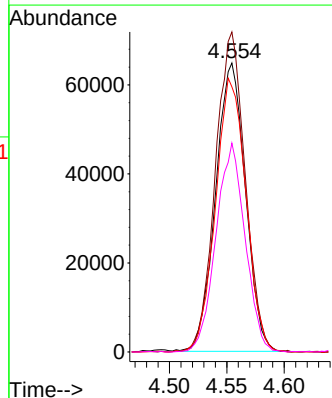
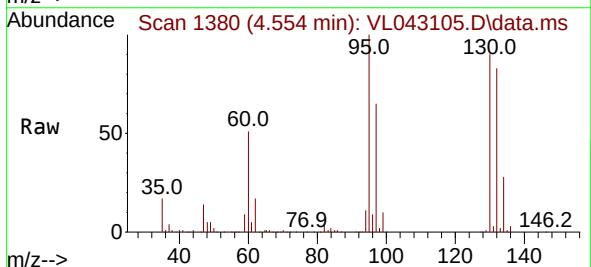
Manual Integrations
APPROVED

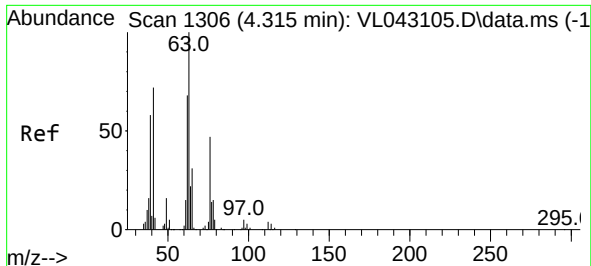
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#38
Trichloroethene
Concen: 8.708 ppbv
RT: 4.554 min Scan# 1380
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

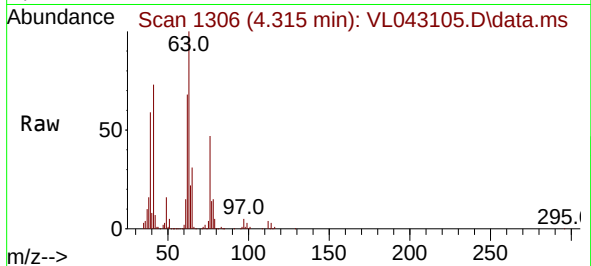
Tgt Ion:130 Resp: 116947
Ion Ratio Lower Upper
130 100
95 110.8 88.6 133.0
132 91.7 73.4 110.0
97 72.2 57.8 86.6





#39
 1,2-Dichloropropane
 Concen: 9.207 ppbv
 RT: 4.315 min Scan# 1306
 Delta R.T. 0.000 min
 Lab File: VL043105.D
 Acq: 14 Oct 2025 10:31

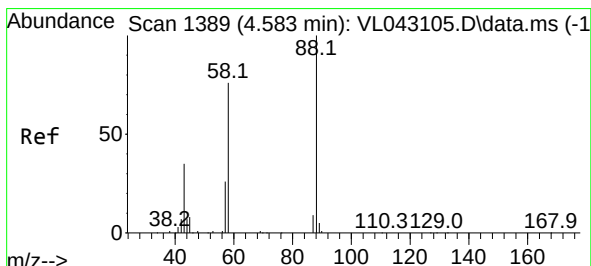
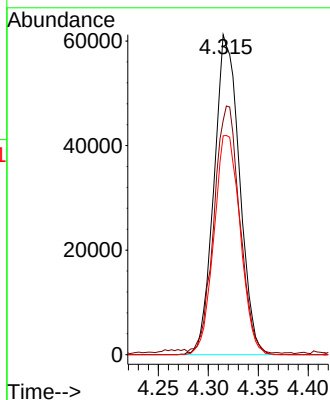
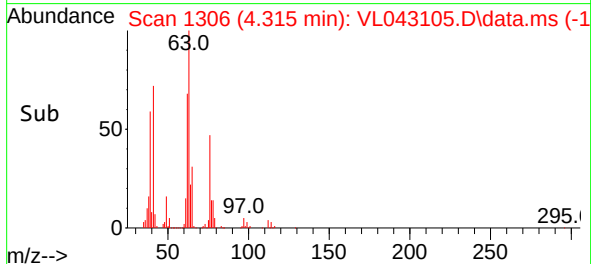
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



Tgt Ion: 63 Resp: 108440
 Ion Ratio Lower Upper
 63 100
 41 72.5 58.0 87.0
 62 68.4 54.7 82.1

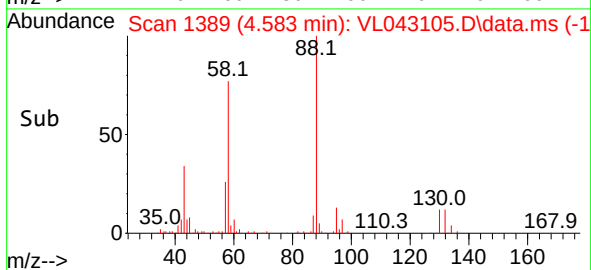
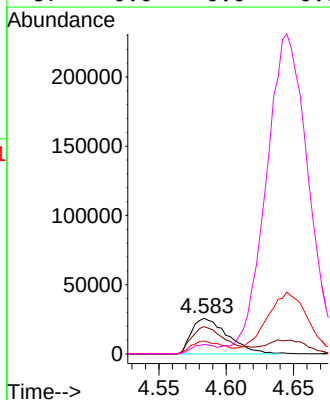
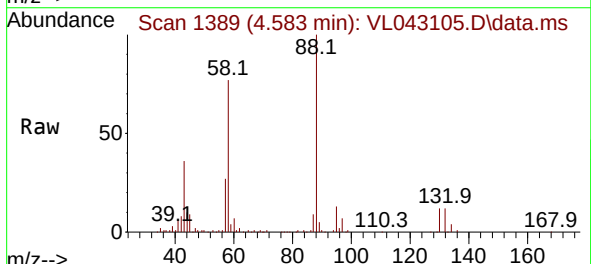
Manual Integrations
 APPROVED

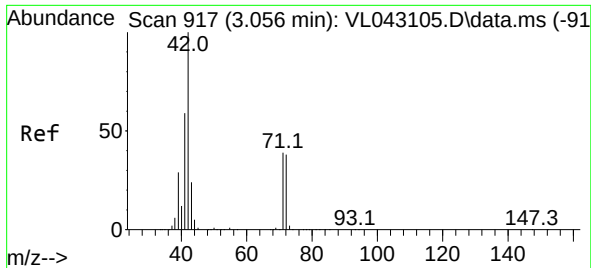
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025



#40
 1,4-Dioxane
 Concen: 9.153 ppbv
 RT: 4.583 min Scan# 1389
 Delta R.T. 0.000 min
 Lab File: VL043105.D
 Acq: 14 Oct 2025 10:31

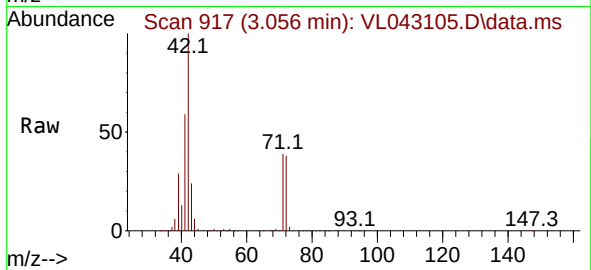
Tgt Ion: 88 Resp: 48201
 Ion Ratio Lower Upper
 88 100
 58 74.3 61.1 91.7
 43 33.3 24.0 36.0
 57 0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 9.076 ppbv
RT: 3.056 min Scan# 917
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

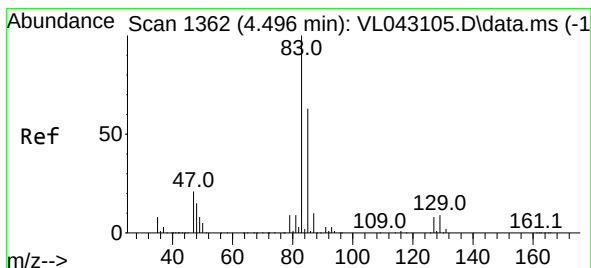
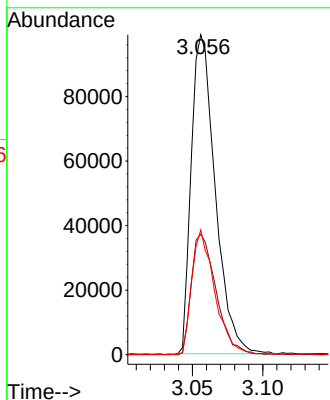
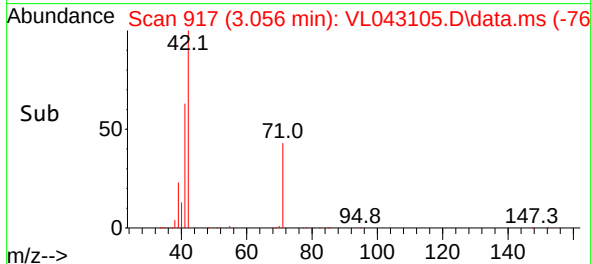
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



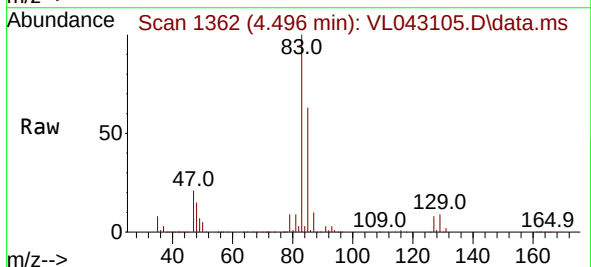
Tgt Ion: 42 Resp: 117069
Ion Ratio Lower Upper
42 100
72 39.1 31.3 46.9
71 37.8 30.4 45.6

Manual Integrations
APPROVED

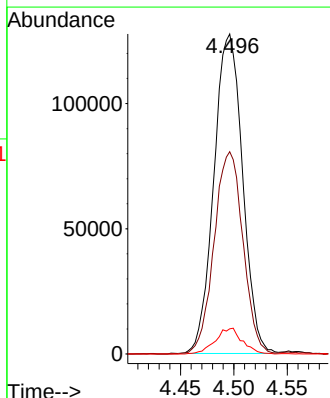
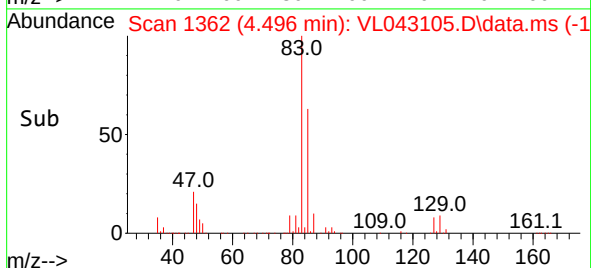
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

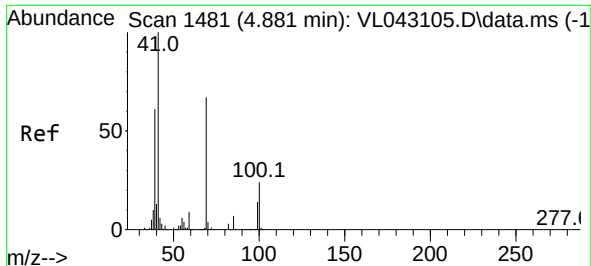


#42
Bromodichloromethane
Concen: 9.286 ppbv
RT: 4.496 min Scan# 1362
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31



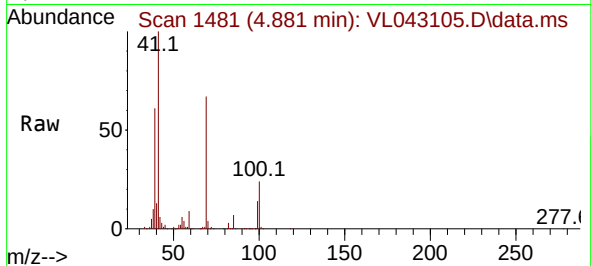
Tgt Ion: 83 Resp: 238353
Ion Ratio Lower Upper
83 100
85 63.2 50.6 75.8
127 7.9 6.3 9.5





#43
Methyl Methacrylate
Concen: 9.371 ppbv
RT: 4.881 min Scan# 1481
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

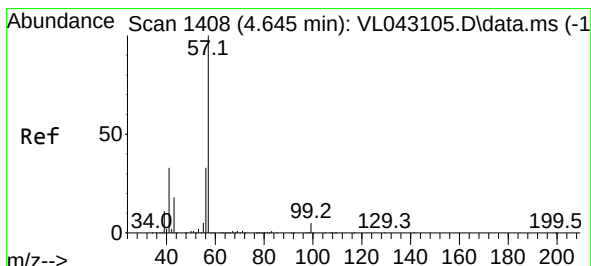
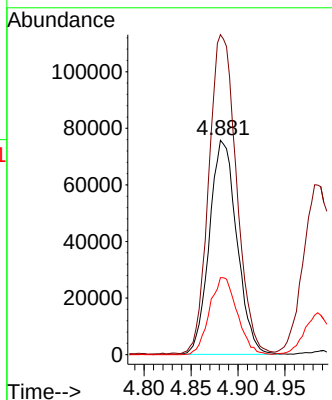
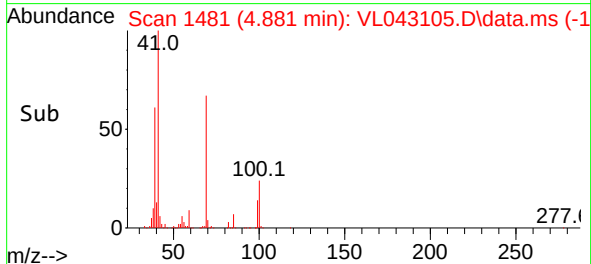
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



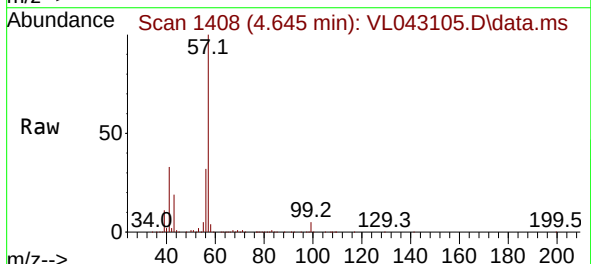
Tgt Ion: 69 Resp: 15392
Ion Ratio Lower Upper
69 100
41 149.8 120.5 180.7
100 36.2 29.0 43.4

Manual Integrations
APPROVED

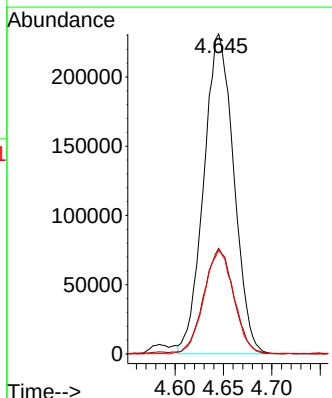
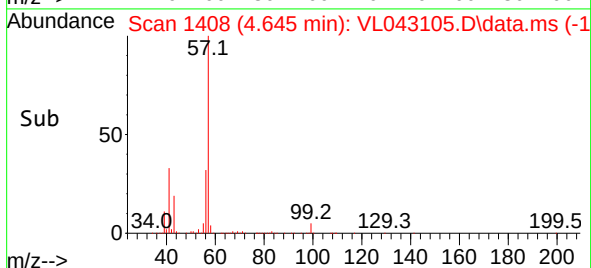
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

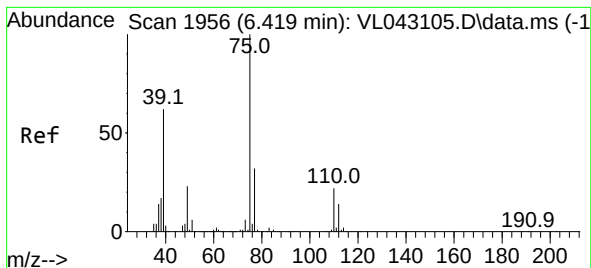


#44
2,2,4-Trimethylpentane
Concen: 9.273 ppbv
RT: 4.645 min Scan# 1408
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31



Tgt Ion: 57 Resp: 499148
Ion Ratio Lower Upper
57 100
41 33.2 26.3 39.5
56 32.1 25.9 38.9





#45

t-1,3-Dichloropropene

Concen: 9.620 ppbv

RT: 6.419 min Scan# 1956

Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 75 Resp: 157850

Ion Ratio Lower Upper

75 100

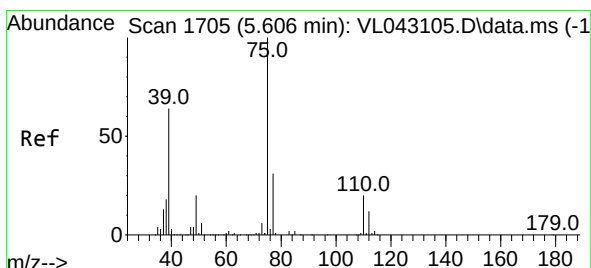
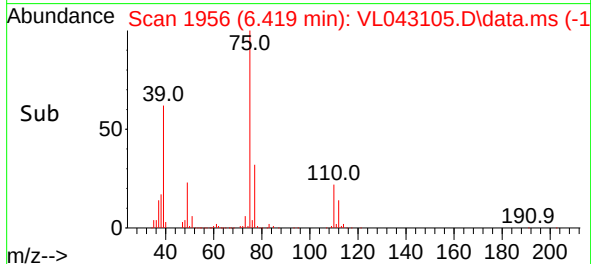
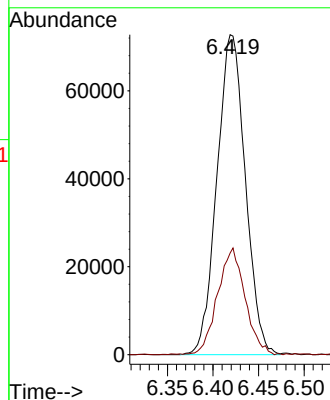
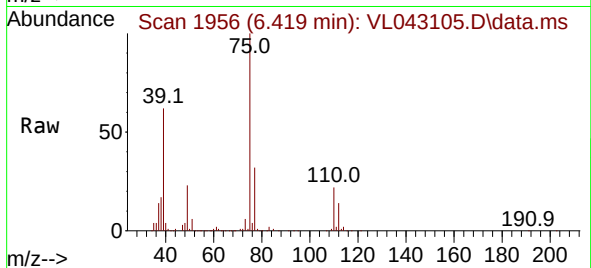
77 31.8 25.4 38.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#46

cis-1,3-Dichloropropene

Concen: 9.525 ppbv

RT: 5.606 min Scan# 1705

Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

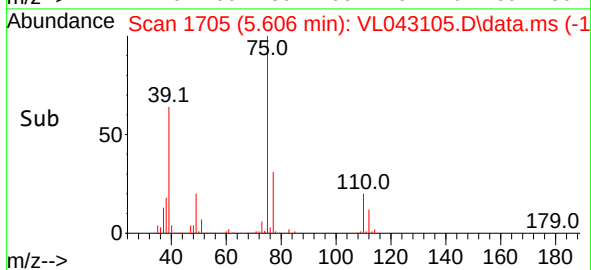
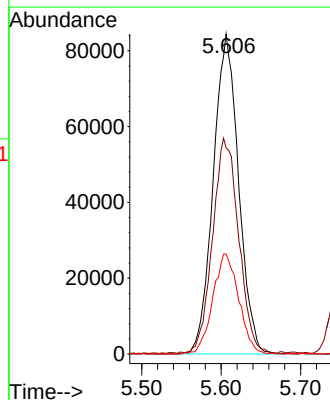
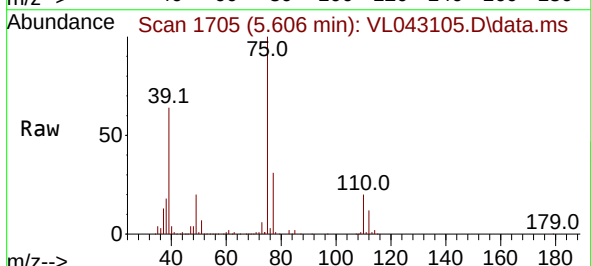
Tgt Ion: 75 Resp: 186533

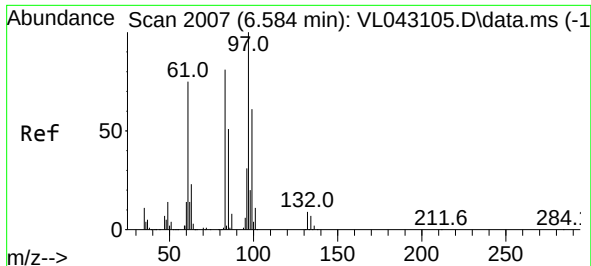
Ion Ratio Lower Upper

75 100

39 63.8 51.0 76.6

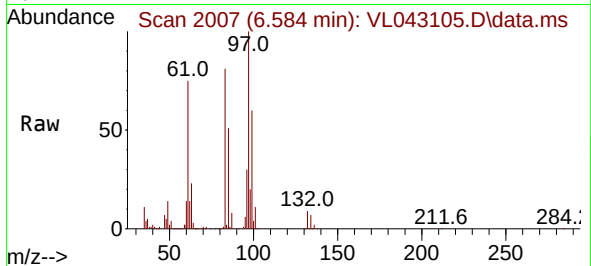
77 31.2 25.0 37.4





#47
1,1,2-Trichloroethane
Concen: 9.082 ppbv
RT: 6.584 min Scan# 2007
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

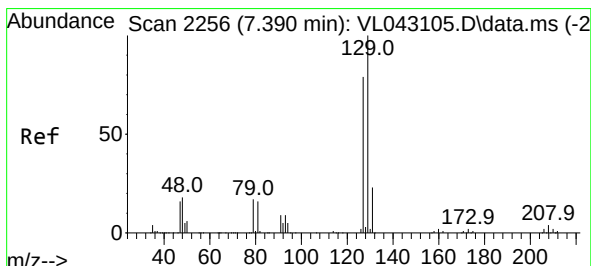
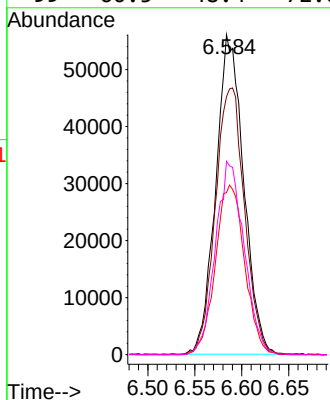
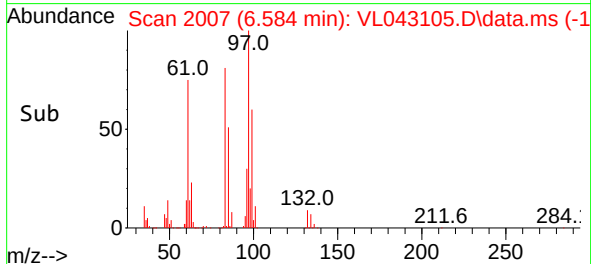
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 97 Resp: 115419
Ion Ratio Lower Upper
97 100
83 80.7 64.6 96.8
85 50.7 40.6 60.8
99 60.5 48.4 72.6

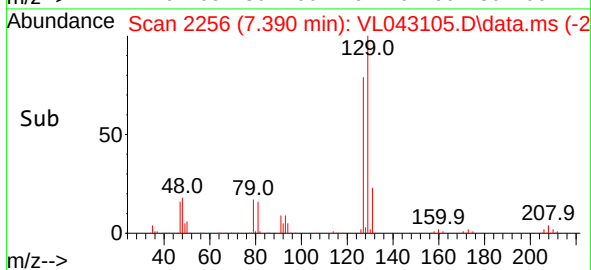
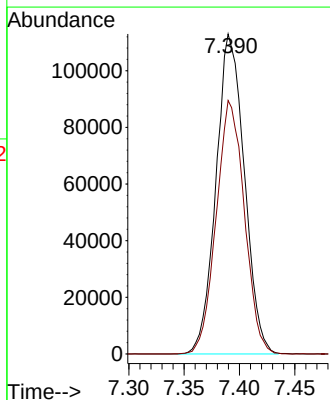
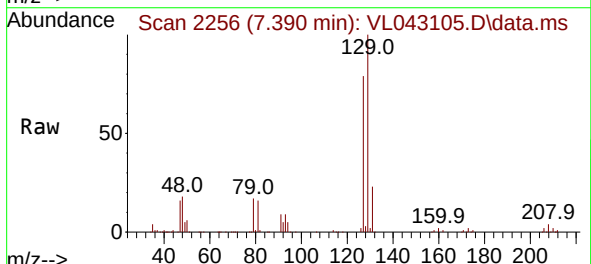
Manual Integrations
APPROVED

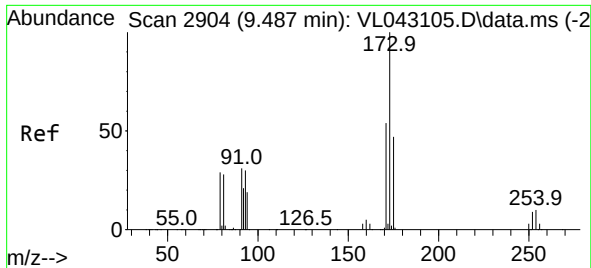
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#48
Dibromochloromethane
Concen: 9.476 ppbv
RT: 7.390 min Scan# 2256
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion:129 Resp: 201349
Ion Ratio Lower Upper
129 100
127 78.6 39.3 117.9





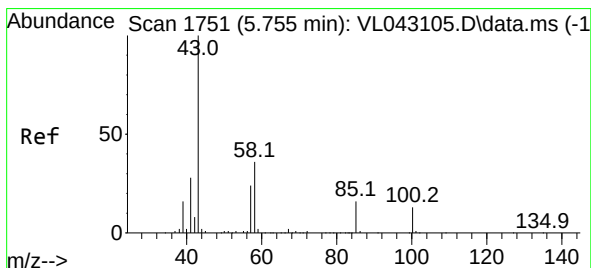
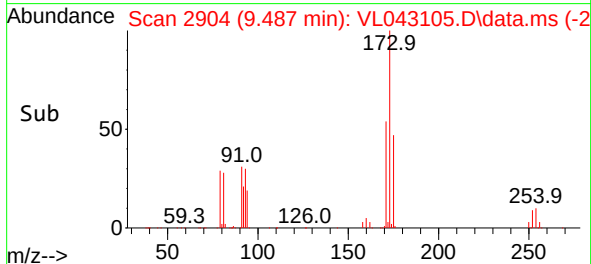
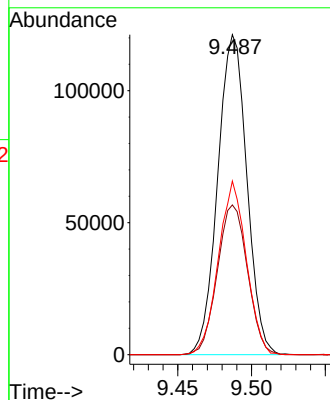
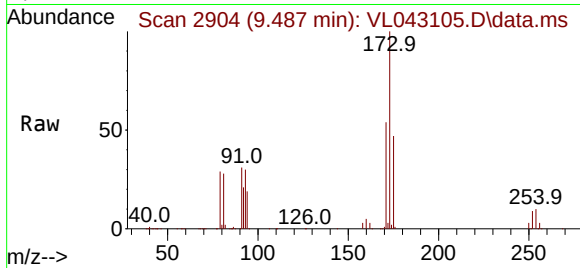
#49
Bromoform
Concen: 9.633 ppbv
RT: 9.487 min Scan# 2904
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Instrument : MSVOA_L
ClientSampleId : VSTDICCC010

Tgt Ion: 173 Resp: 16637
Ion Ratio Lower Upper
173 100
175 48.5 38.8 58.2
171 52.1 41.7 62.5

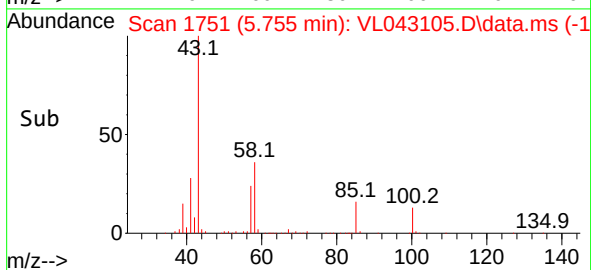
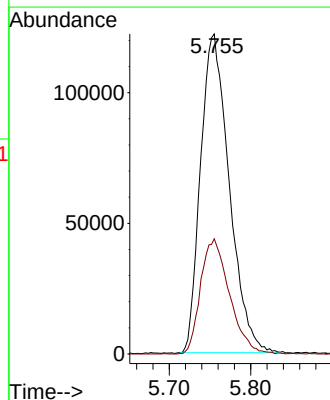
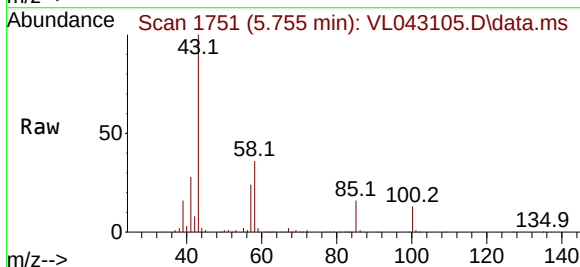
Manual Integrations
APPROVED

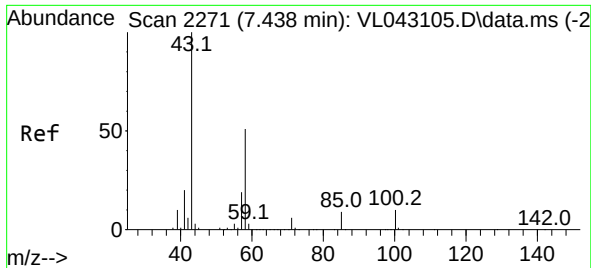
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#50
4-Methyl-2-Pentanone
Concen: 9.362 ppbv
RT: 5.755 min Scan# 1751
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

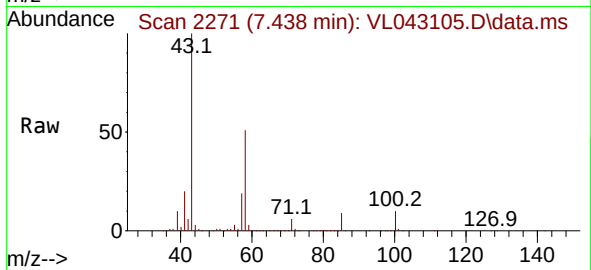
Tgt Ion: 43 Resp: 298401
Ion Ratio Lower Upper
43 100
58 36.3 29.1 43.7





#51
2-Hexanone
Concen: 9.940 ppbv
RT: 7.438 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

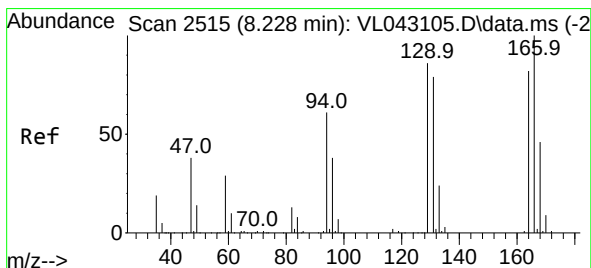
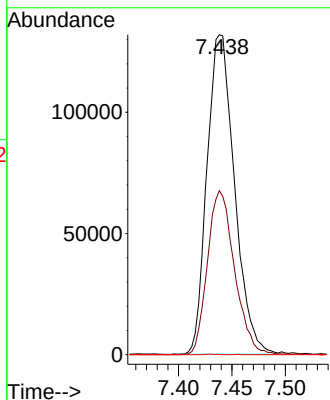
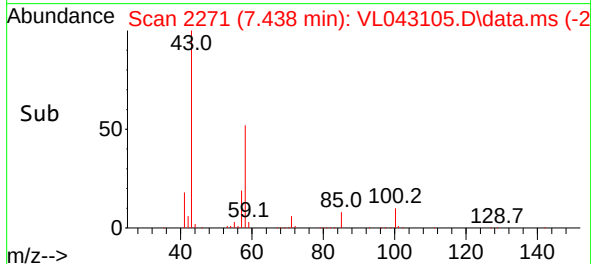
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 43 Resp: 23639
Ion Ratio Lower Upper
43 100
58 50.6 40.4 60.6
98 0.1 0.1 0.1

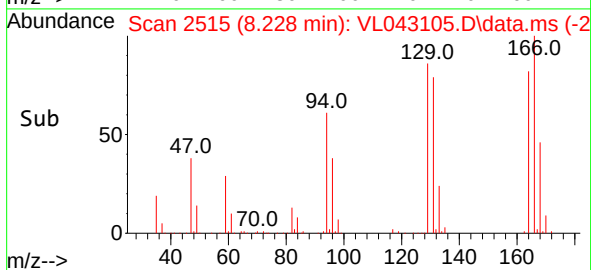
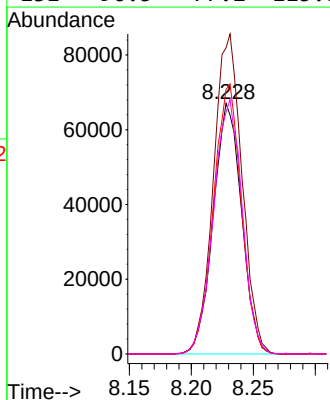
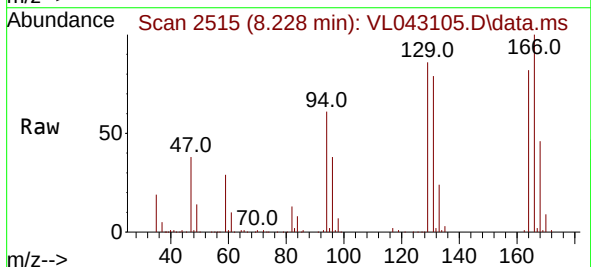
Manual Integrations
APPROVED

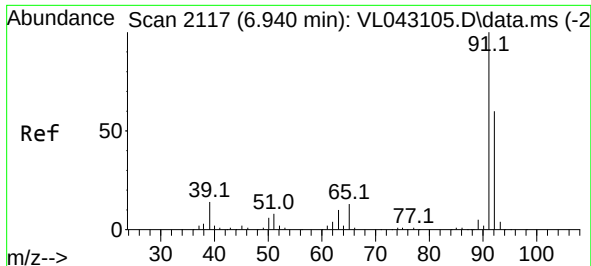
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#52
Tetrachloroethene
Concen: 9.192 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

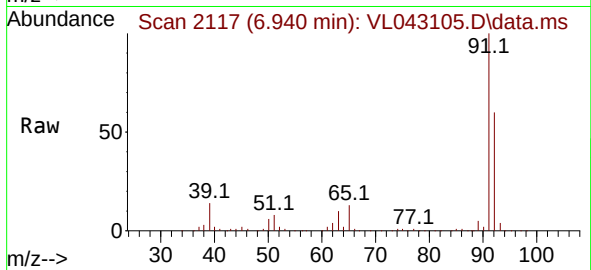
Tgt Ion:164 Resp: 106710
Ion Ratio Lower Upper
164 100
166 122.0 97.6 146.4
129 105.6 84.5 126.7
131 96.5 77.2 115.8





#53
Toluene
Concen: 9.266 ppbv
RT: 6.940 min Scan# 2117
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

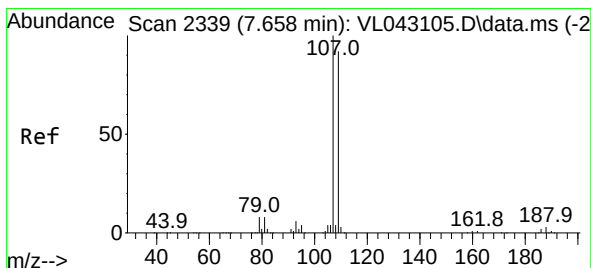
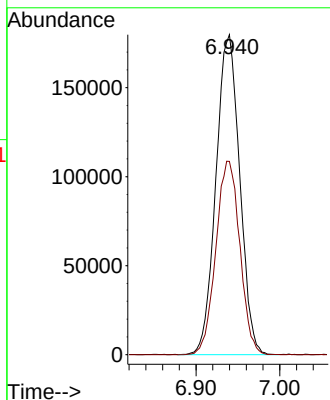
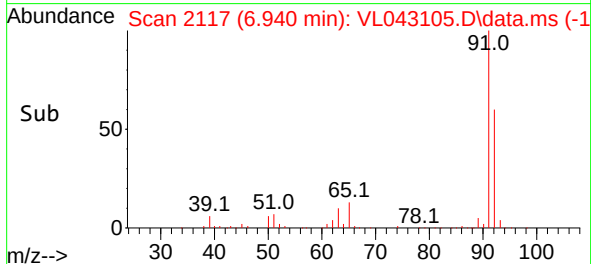
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 91 Resp: 35400
Ion Ratio Lower Upper
91 100
92 61.0 48.8 73.2

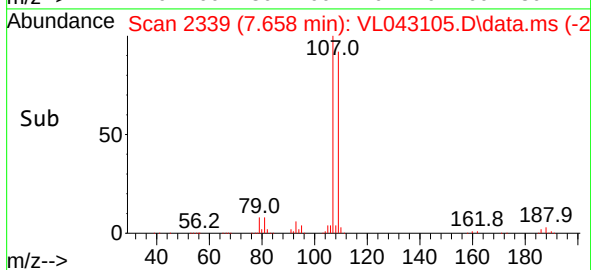
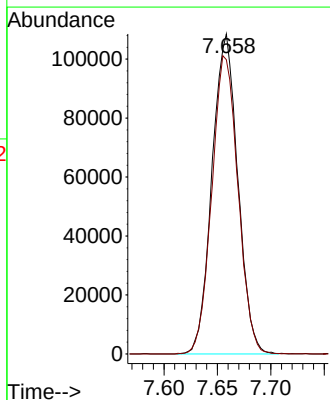
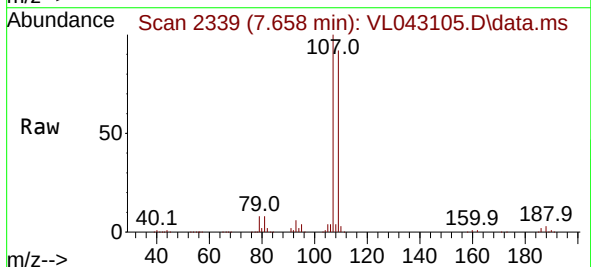
Manual Integrations
APPROVED

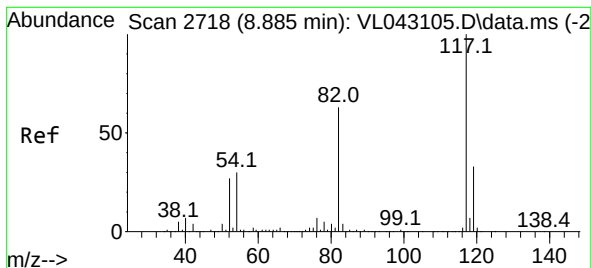
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#54
1,2-Dibromoethane
Concen: 9.080 ppbv
RT: 7.658 min Scan# 2339
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion:107 Resp: 182074
Ion Ratio Lower Upper
107 100
109 91.8 73.4 110.2





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.885 min Scan# 2718

Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

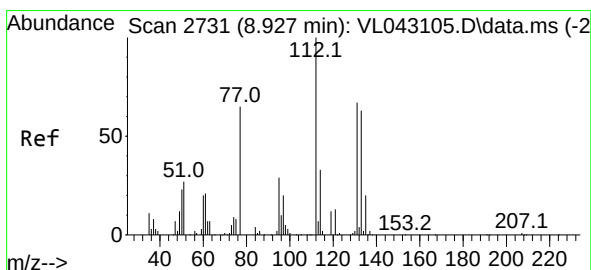
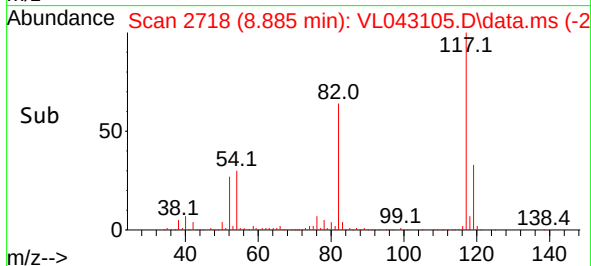
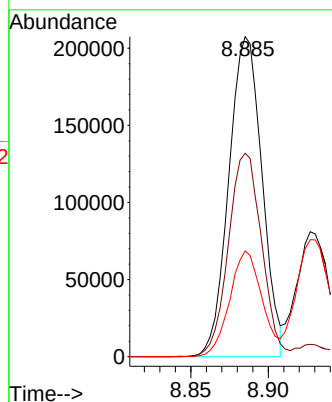
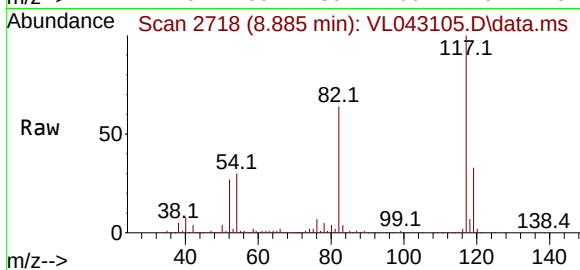
Tgt Ion:117 Resp: 309230

Ion	Ratio	Lower	Upper
117	100		
82	67.3	53.8	80.8
119	33.4	25.4	38.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#56

1,1,1,2-Tetrachloroethane

Concen: 9.367 ppbv

RT: 8.927 min Scan# 2731

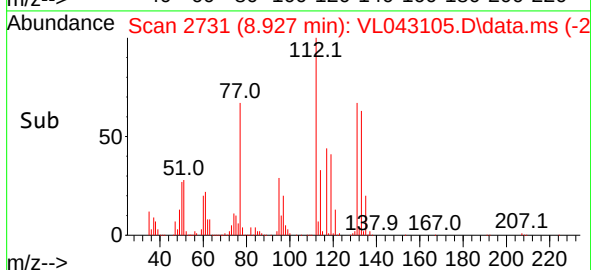
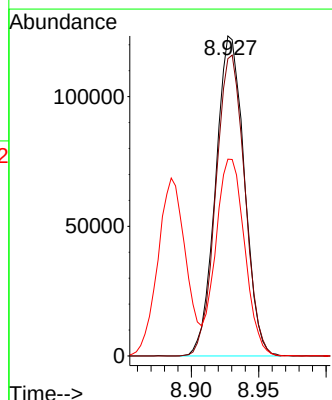
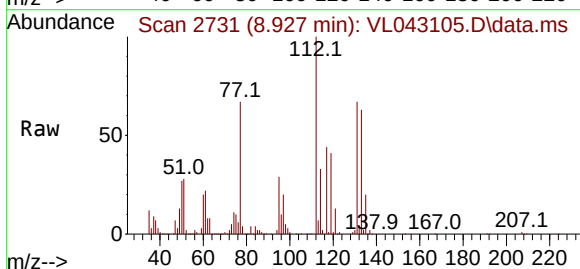
Delta R.T. 0.000 min

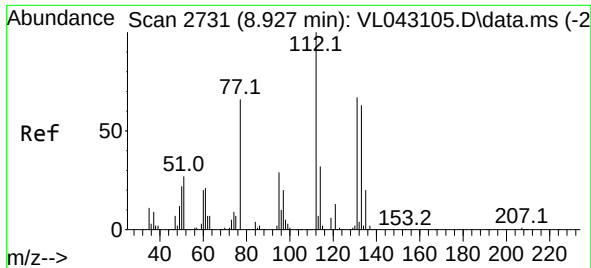
Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

Tgt Ion:131 Resp: 182585

Ion	Ratio	Lower	Upper
131	100		
133	94.6	75.7	113.5
119	63.3	50.6	76.0





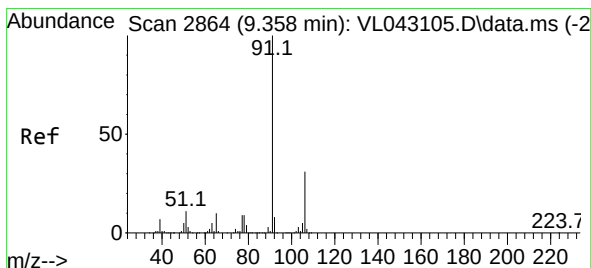
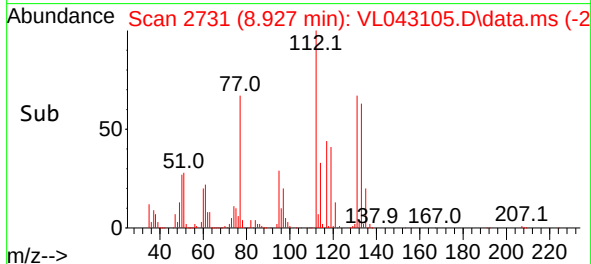
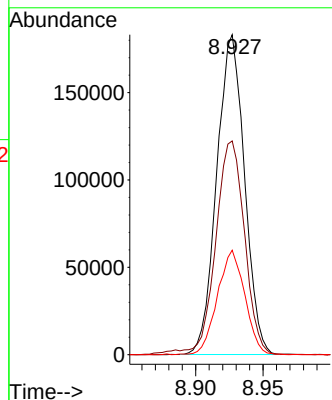
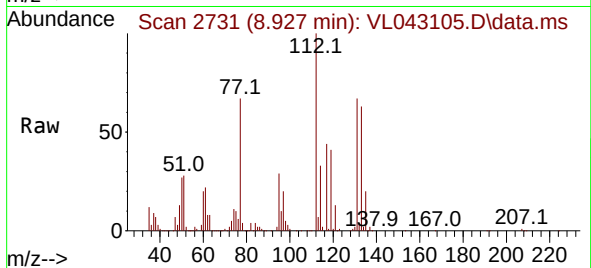
#57
Chlorobenzene
Concen: 9.076 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:112 Resp: 262560
Ion Ratio Lower Upper
112 100
77 66.6 53.3 79.9
114 32.5 29.3 35.8

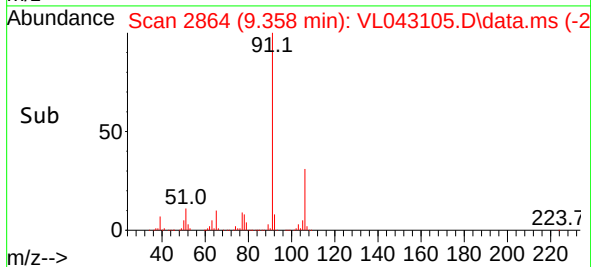
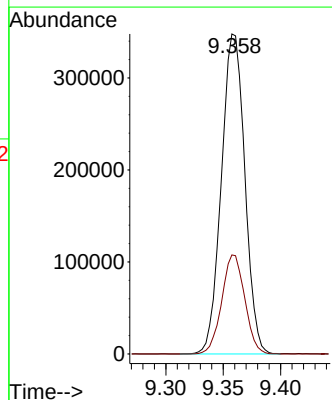
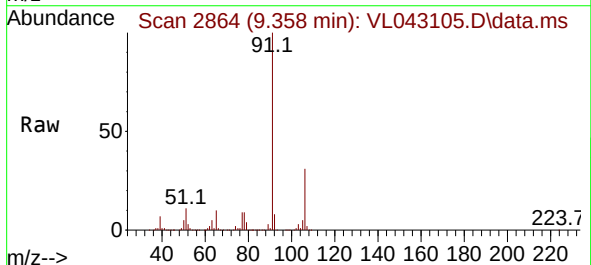
Manual Integrations
APPROVED

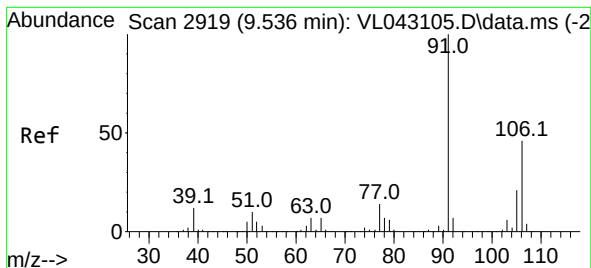
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#58
Ethyl Benzene
Concen: 9.241 ppbv
RT: 9.358 min Scan# 2864
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 91 Resp: 494344
Ion Ratio Lower Upper
91 100
106 31.0 24.8 37.2





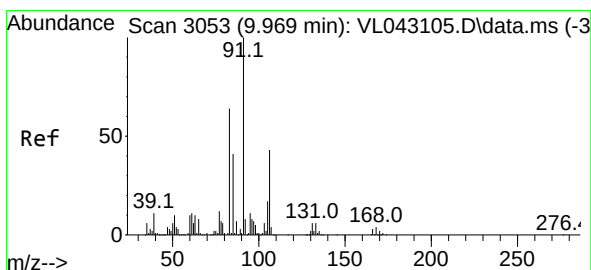
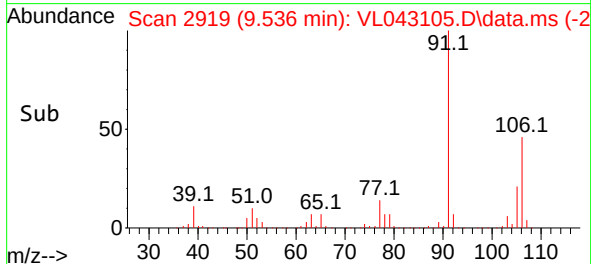
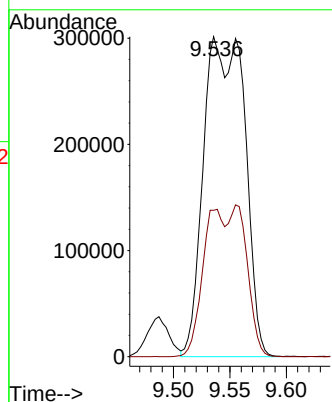
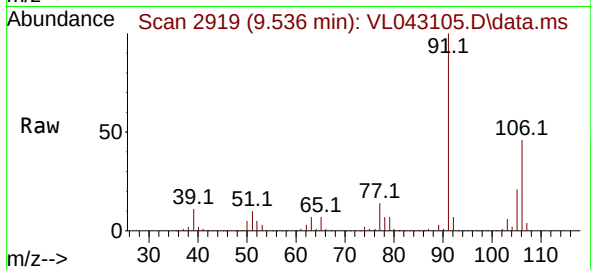
#59
m/p-Xylene
Concen: 18.067 ppbv m
RT: 9.536 min Scan# 2919
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

Tgt Ion: 91 Resp: 765374
Ion Ratio Lower Upper
91 100
106 0.0 38.0 57.0

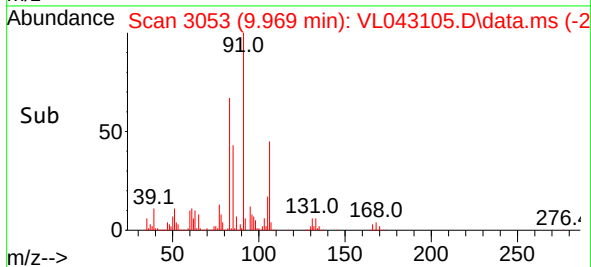
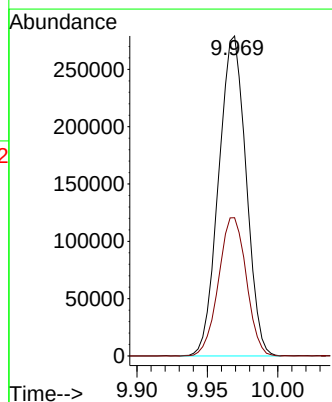
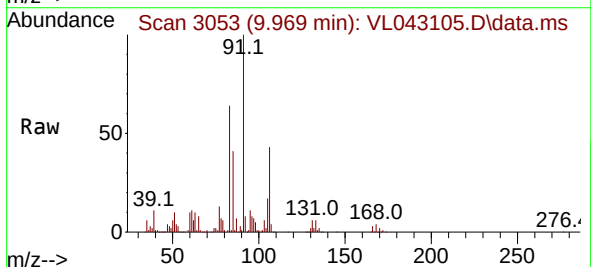
Manual Integrations
APPROVED

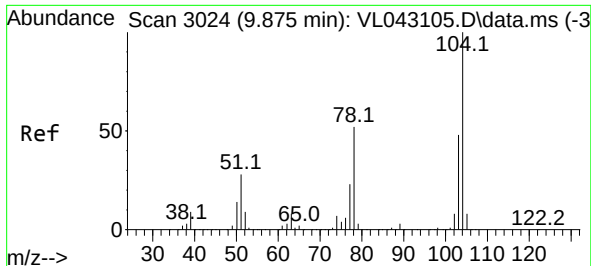
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#60
o-Xylene
Concen: 9.053 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 91 Resp: 378462
Ion Ratio Lower Upper
91 100
106 43.9 21.9 65.8





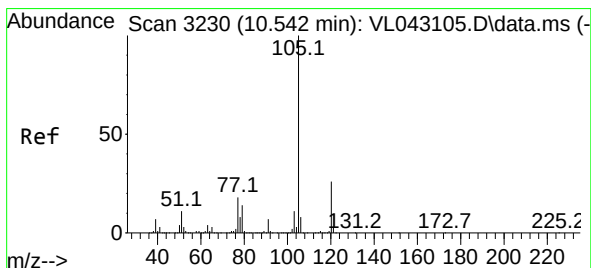
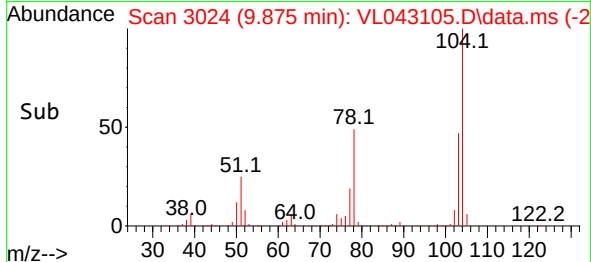
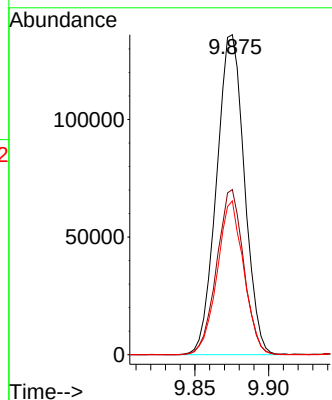
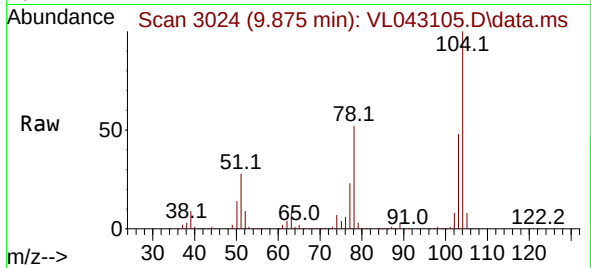
#61
Styrene
Concen: 9.477 ppbv
RT: 9.875 min Scan# 3024
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:104 Resp: 17885
Ion Ratio Lower Upper
104 100
78 50.2 40.2 60.2
103 46.1 36.9 55.3

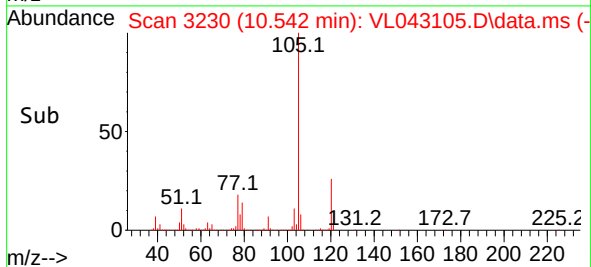
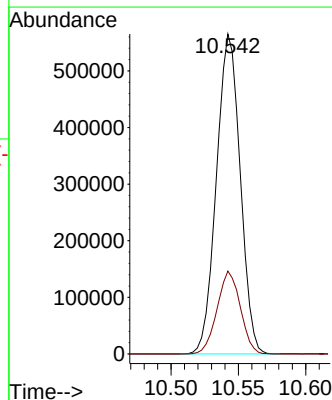
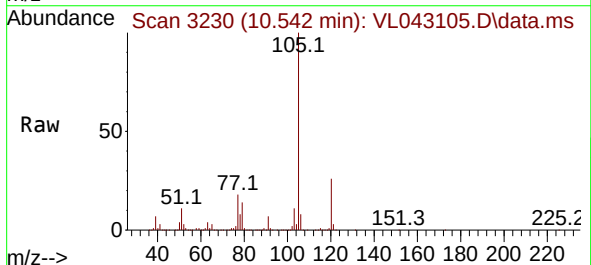
Manual Integrations
APPROVED

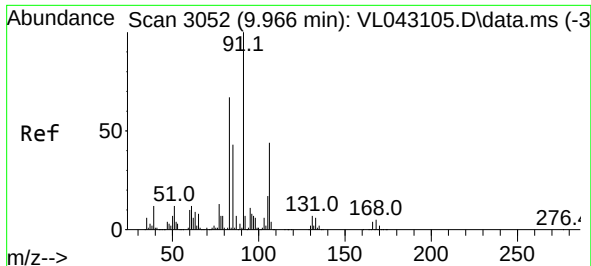
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#62
Isopropylbenzene
Concen: 9.173 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

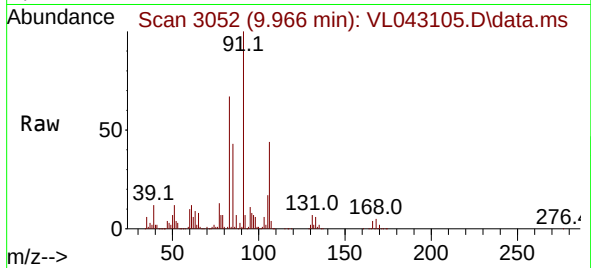
Tgt Ion:105 Resp: 692992
Ion Ratio Lower Upper
105 100
120 25.3 20.2 30.4





#63
1,1,2,2-Tetrachloroethane
Concen: 8.582 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

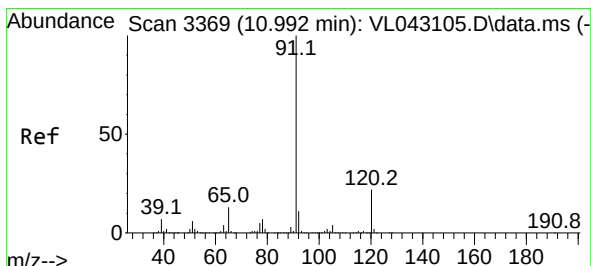
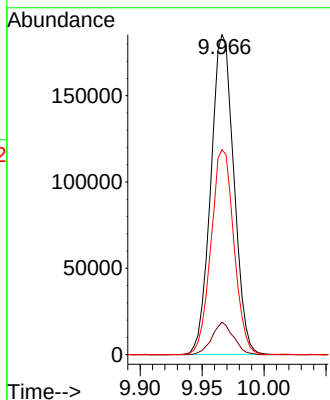
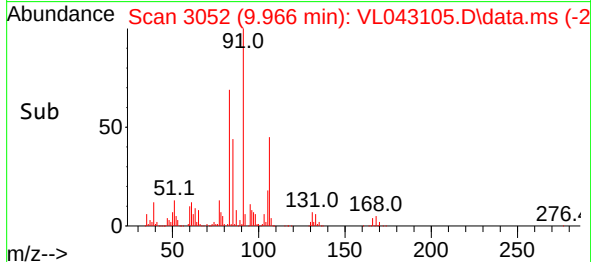
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



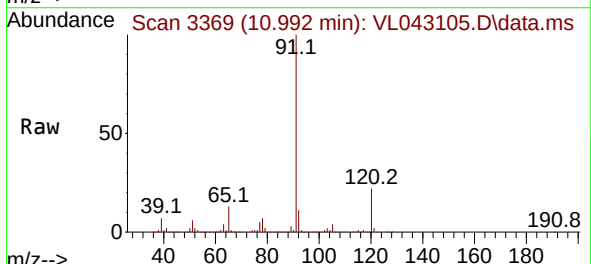
Tgt Ion: 83 Resp: 240245
Ion Ratio Lower Upper
83 100
131 9.5 4.8 14.3
85 64.0 32.0 96.0

Manual Integrations
APPROVED

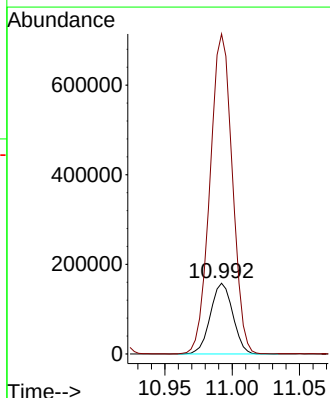
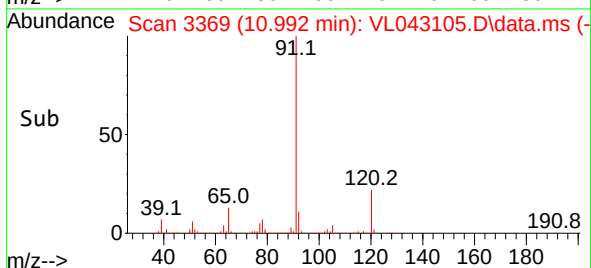
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

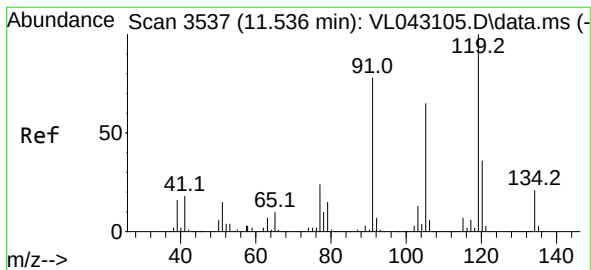


#64
n-propylbenzene
Concen: 9.112 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31



Tgt Ion:120 Resp: 182233
Ion Ratio Lower Upper
120 100
91 452.0 361.6 542.4





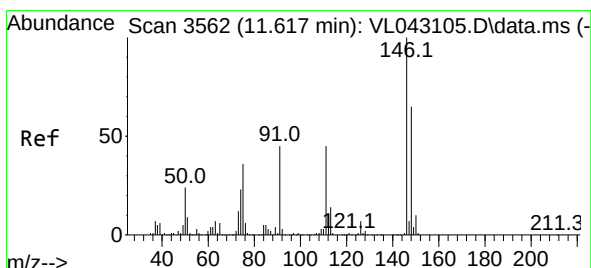
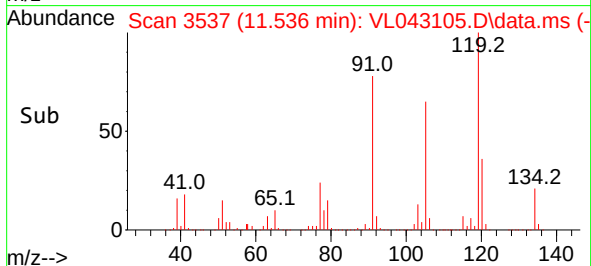
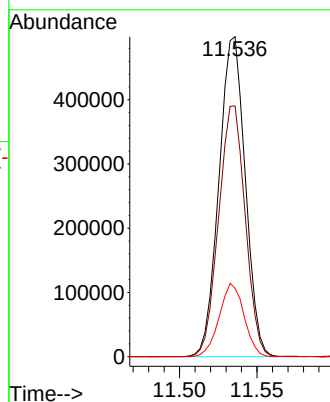
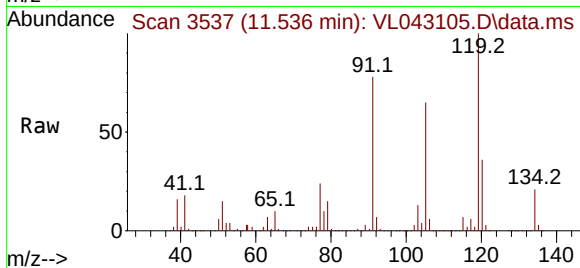
#65
tert-Butylbenzene
Concen: 8.810 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:119 Resp: 587750
Ion Ratio Lower Upper
119 100
91 79.1 63.4 95.0
134 21.6 17.3 25.9

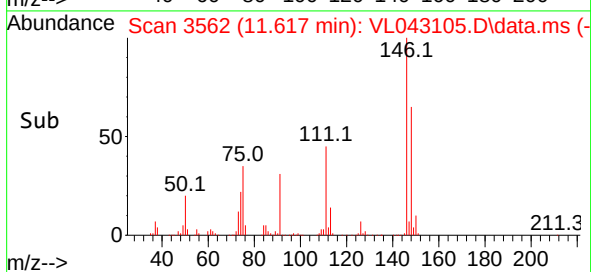
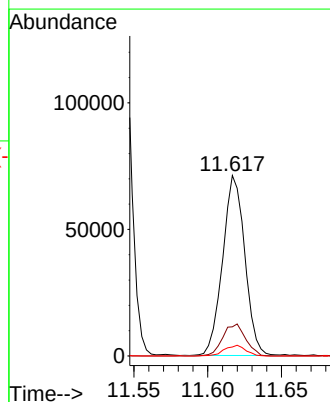
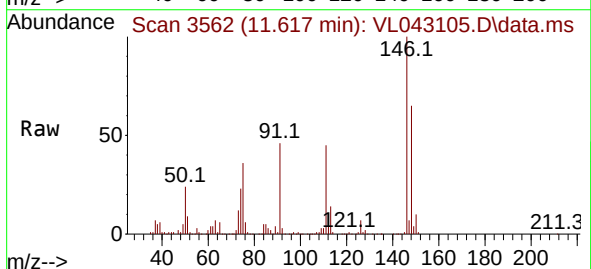
Manual Integrations
APPROVED

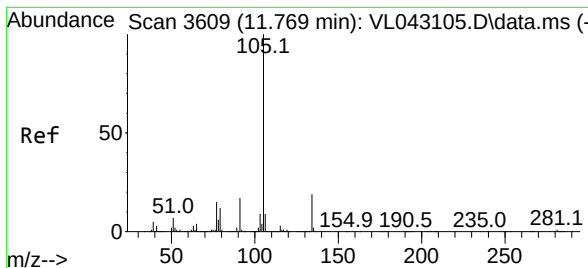
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#66
Benzyl Chloride
Concen: 10.009 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

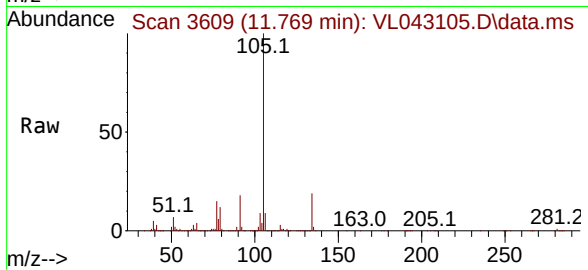
Tgt Ion: 91 Resp: 74574
Ion Ratio Lower Upper
91 100
126 18.3 14.6 22.0
128 5.7 4.6 6.8





#67
 sec-Butylbenzene
 Concen: 8.809 ppbv
 RT: 11.769 min Scan# 3609
 Delta R.T. 0.000 min
 Lab File: VL043105.D
 Acq: 14 Oct 2025 10:31

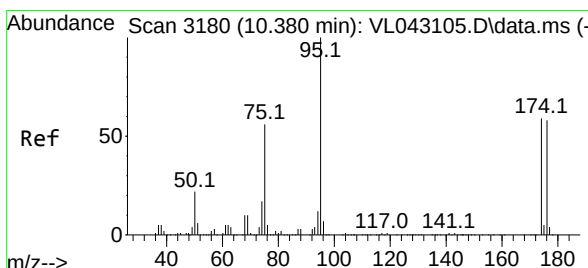
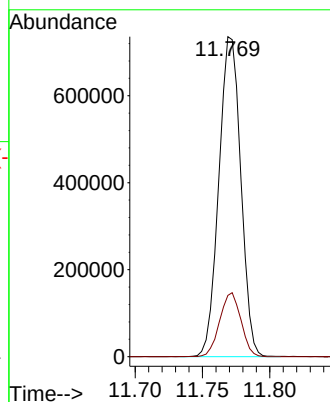
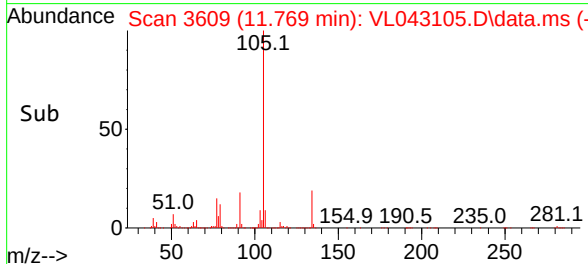
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



Tgt Ion:105 Resp: 834052
 Ion Ratio Lower Upper
 105 100
 134 19.4 15.5 23.3

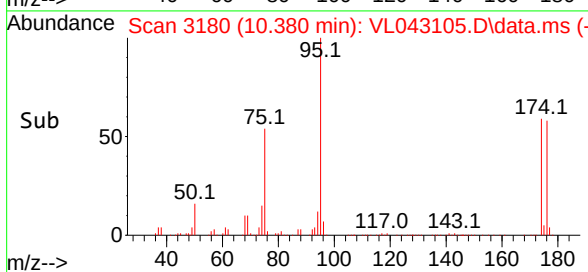
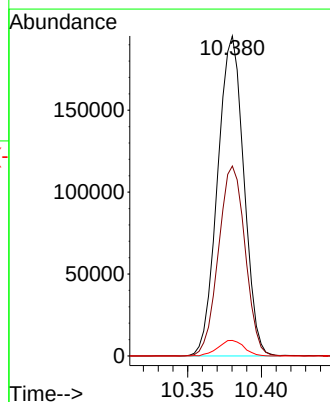
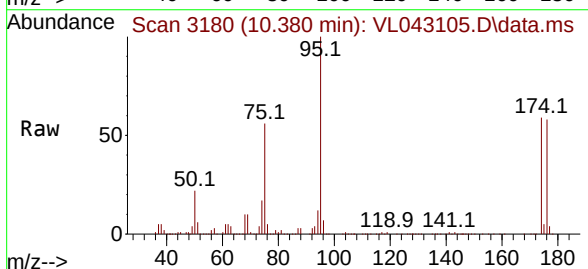
Manual Integrations
 APPROVED

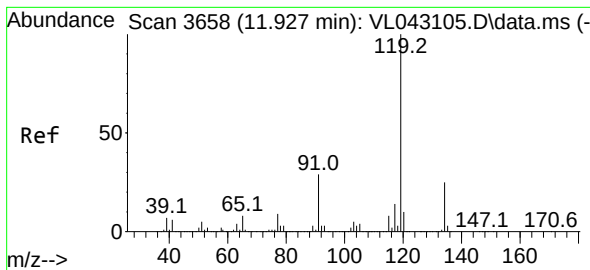
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.046 ppbv
 RT: 10.380 min Scan# 3180
 Delta R.T. 0.000 min
 Lab File: VL043105.D
 Acq: 14 Oct 2025 10:31

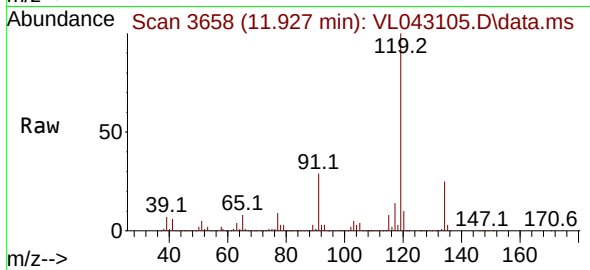
Tgt Ion: 95 Resp: 241468
 Ion Ratio Lower Upper
 95 100
 174 60.4 48.3 72.5
 175 4.8 3.8 5.8





#69
p-Isopropyltoluene
Concen: 8.955 ppbv
RT: 11.927 min Scan# 3658
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

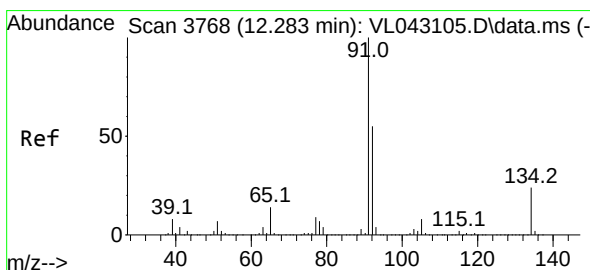
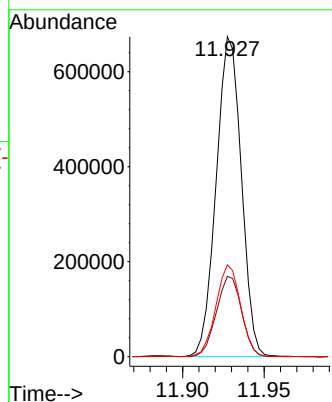
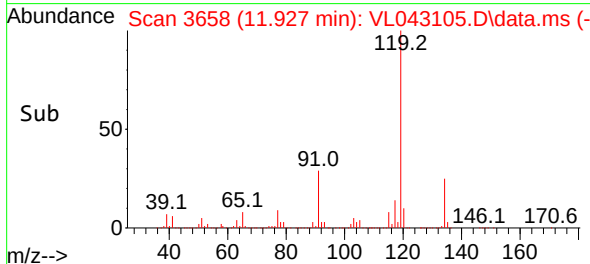
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



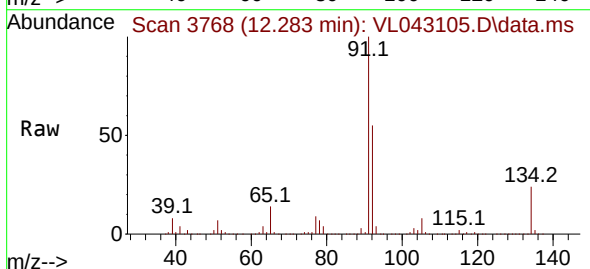
Tgt Ion:119 Resp: 720431
Ion Ratio Lower Upper
119 100
134 25.4 20.3 30.5
91 28.3 22.6 33.8

Manual Integrations
APPROVED

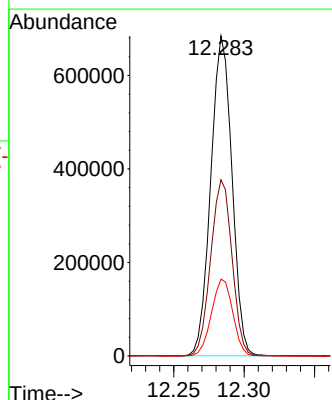
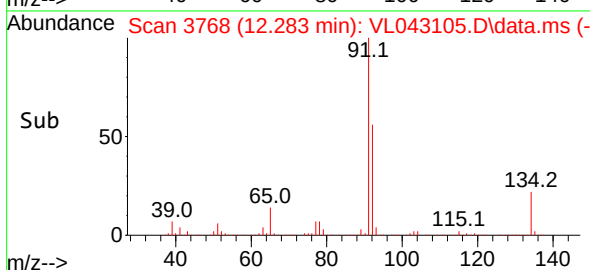
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

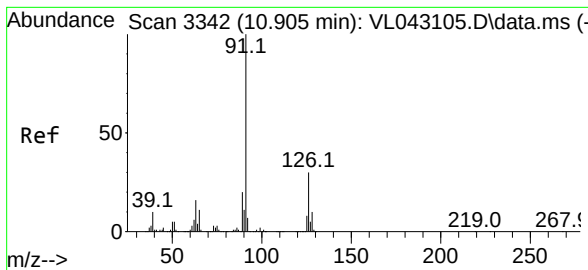


#70
n-Butylbenzene
Concen: 9.053 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31



Tgt Ion: 91 Resp: 717743
Ion Ratio Lower Upper
91 100
92 55.6 44.5 66.7
134 24.1 19.3 28.9





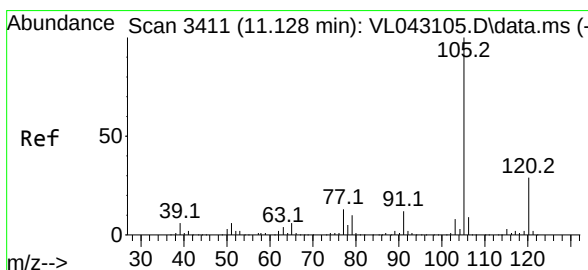
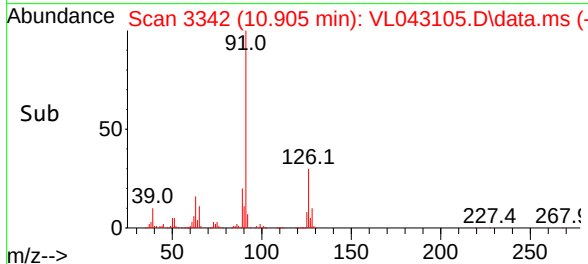
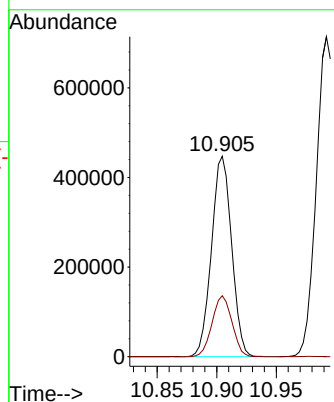
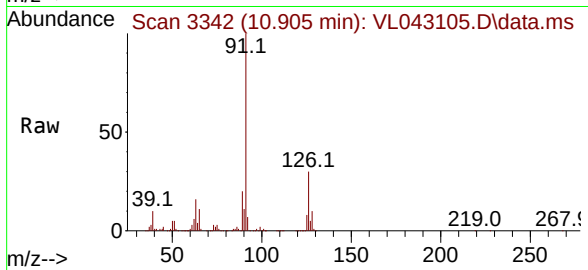
#71
2-Chlorotoluene
Concen: 9.111 ppbv
RT: 10.905 min Scan# 3342
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 91 Resp: 52496
Ion Ratio Lower Upper
91 100
126 30.0 12.0 48.0

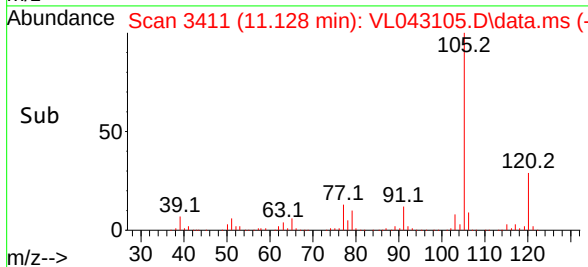
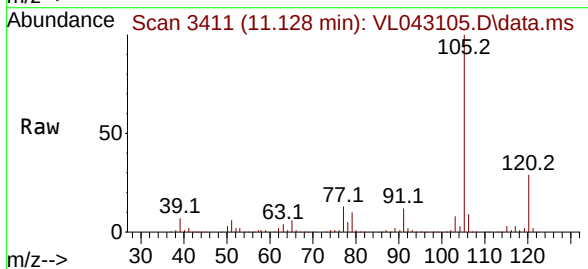
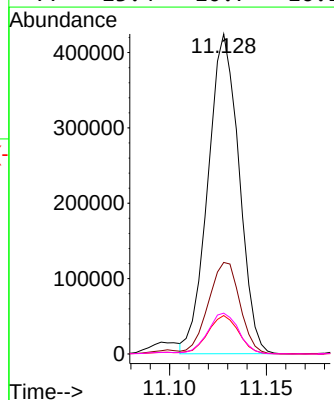
Manual Integrations
APPROVED

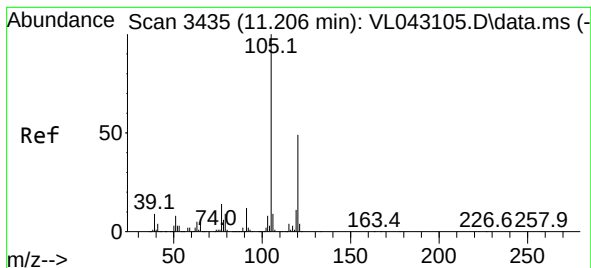
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#72
4-Ethyltoluene
Concen: 9.202 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion:105 Resp: 473042
Ion Ratio Lower Upper
105 100
120 30.3 24.2 36.4
91 12.5 10.0 15.0
77 13.4 10.7 16.1





#73

1,3,5-Trimethylbenzene

Concen: 9.195 ppbv

RT: 11.206 min Scan# 3435

Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion:105 Resp: 389818

Ion Ratio Lower Upper

105 100

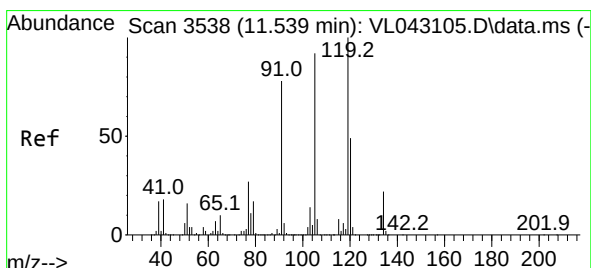
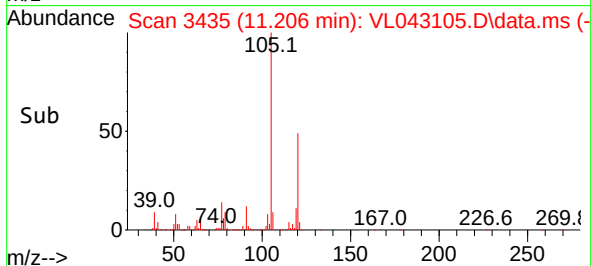
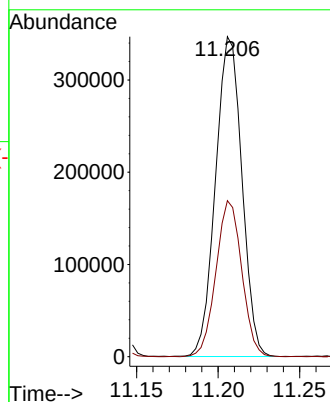
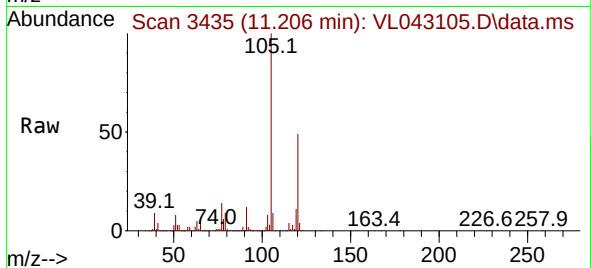
120 48.8 39.0 58.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#74

1,2,4-Trimethylbenzene

Concen: 8.676 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

Tgt Ion:105 Resp: 411619

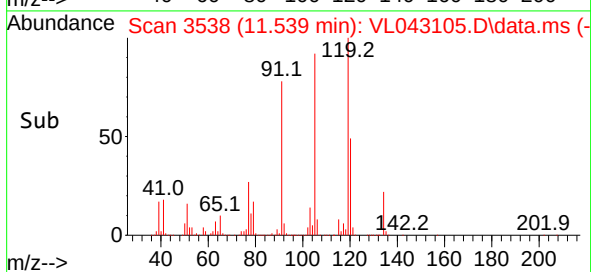
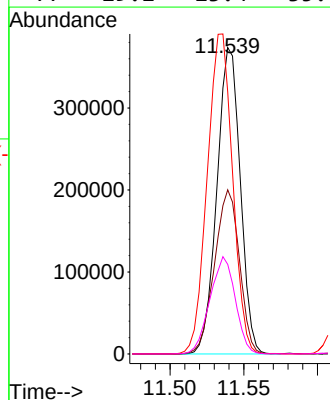
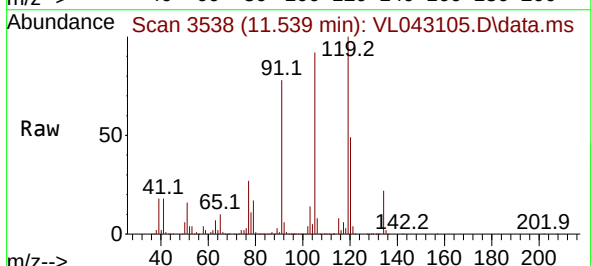
Ion Ratio Lower Upper

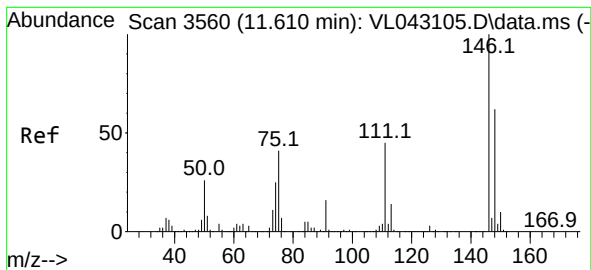
105 100

120 53.5 42.8 64.2

91 85.4 68.3 102.5

77 29.2 23.4 35.0





#75

1,3-Dichlorobenzene

Concen: 9.192 ppbv

RT: 11.610 min Scan# 3560

Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion:146 Resp: 252920

Ion Ratio Lower Upper

146 100

111 46.6 23.3 69.9

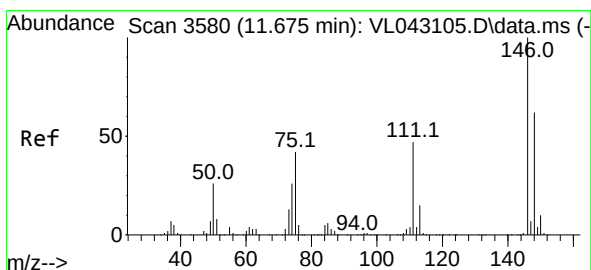
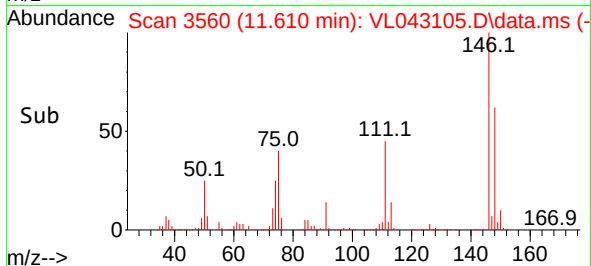
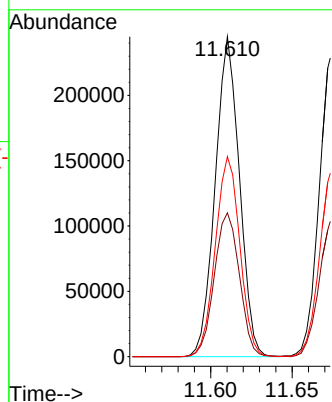
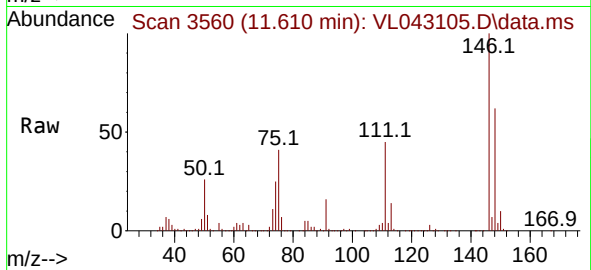
148 63.3 31.6 95.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#76

1,4-Dichlorobenzene

Concen: 9.171 ppbv

RT: 11.675 min Scan# 3580

Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

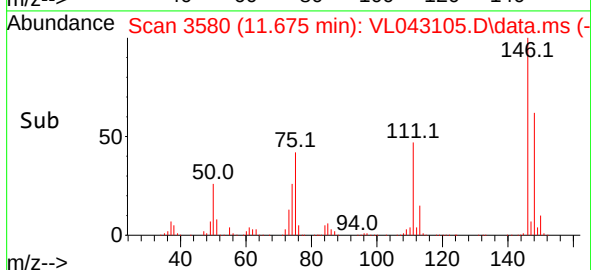
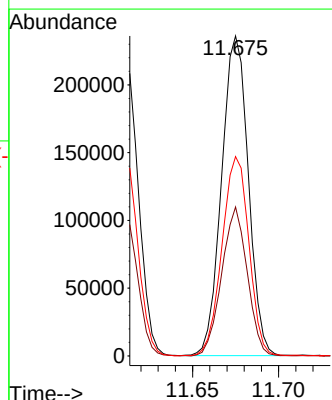
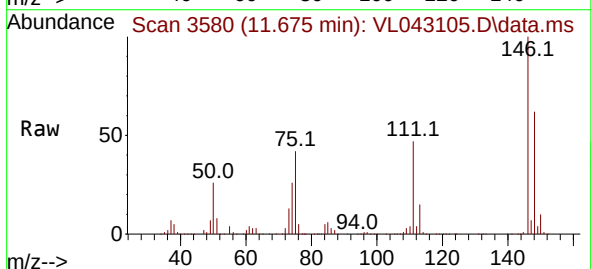
Tgt Ion:146 Resp: 254461

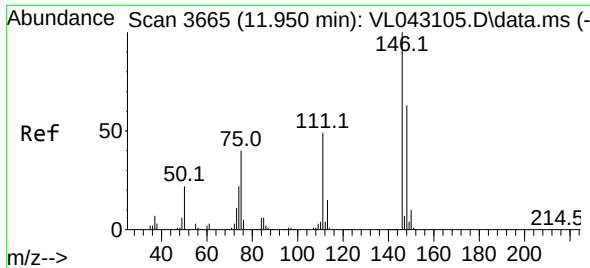
Ion Ratio Lower Upper

146 100

111 44.7 22.4 67.0

148 63.1 31.6 94.7





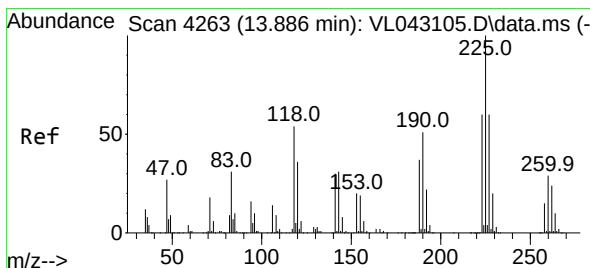
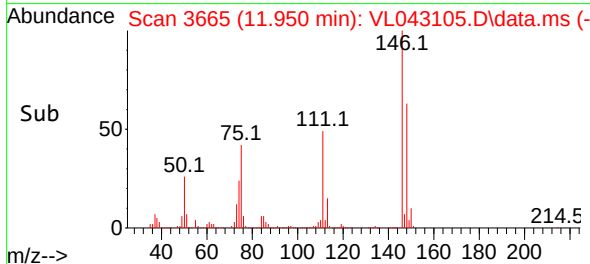
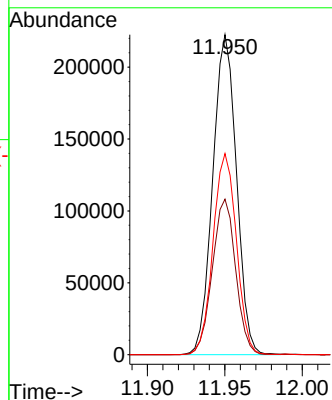
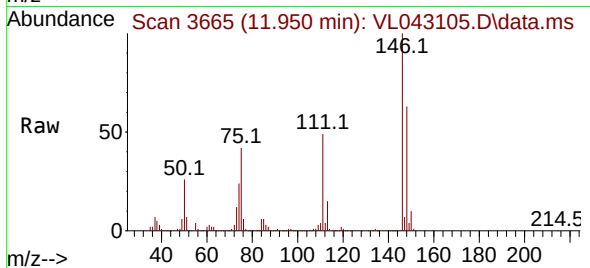
#77
1,2-Dichlorobenzene
Concen: 8.893 ppbv
RT: 11.950 min Scan# 3665
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:146 Resp: 236724
Ion Ratio Lower Upper
146 100
111 48.0 24.0 72.0
148 62.2 31.1 93.3

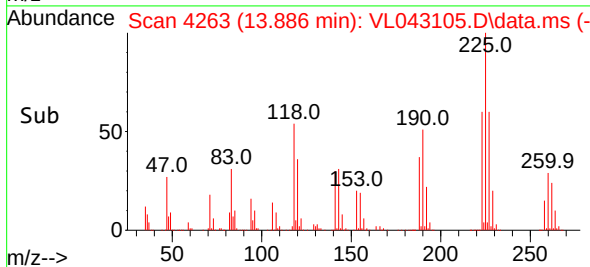
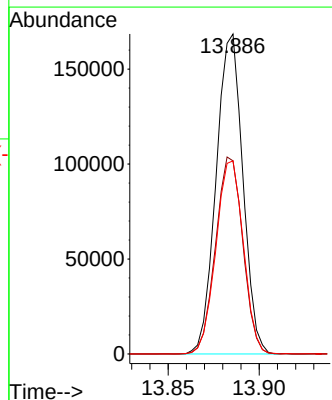
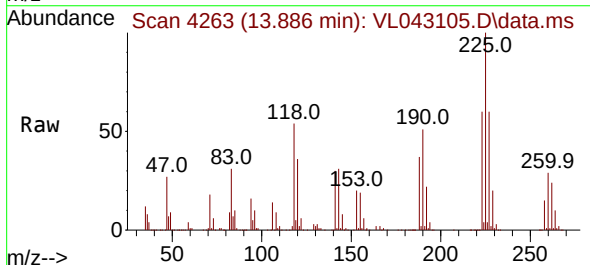
Manual Integrations
APPROVED

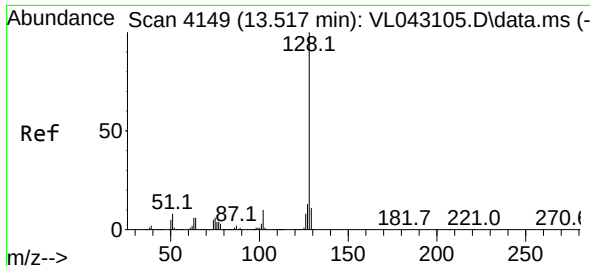
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#78
Hexachloro-1,3-Butadiene
Concen: 8.334 ppbv
RT: 13.886 min Scan# 4263
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

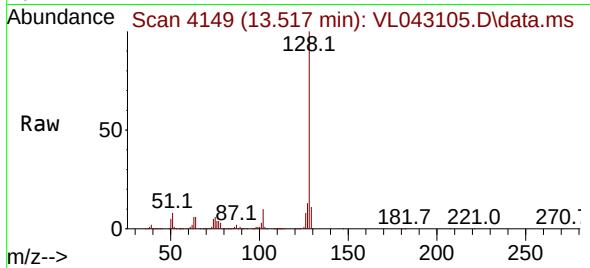
Tgt Ion:225 Resp: 171777
Ion Ratio Lower Upper
225 100
223 62.8 50.2 75.4
227 62.0 49.6 74.4





#79
Naphthalene
Concen: 9.972 ppbv
RT: 13.517 min Scan# 4149
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

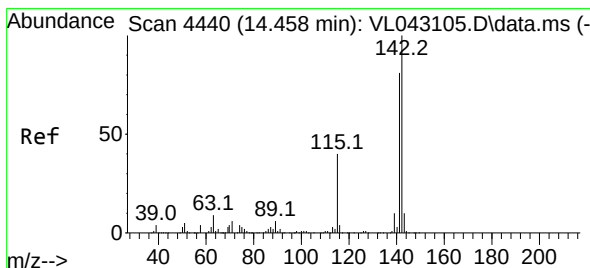
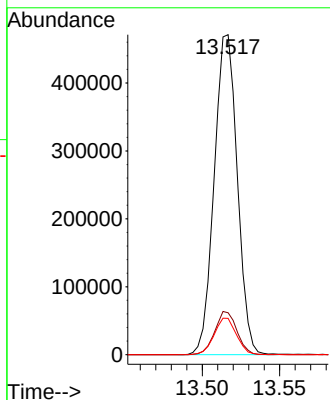
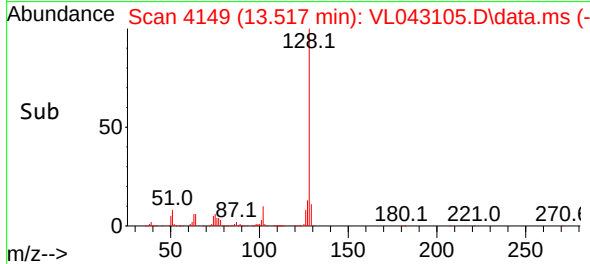
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



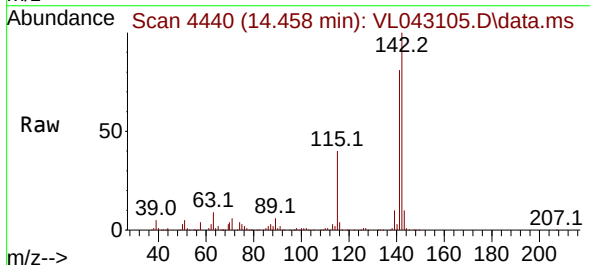
Tgt Ion:128 Resp: 488672
Ion Ratio Lower Upper
128 100
127 13.1 10.5 15.7
129 11.4 9.1 13.7

Manual Integrations
APPROVED

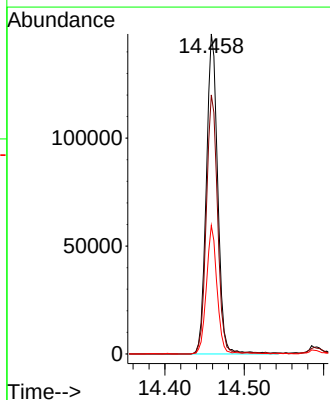
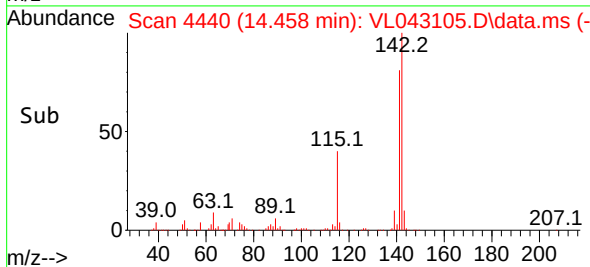
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

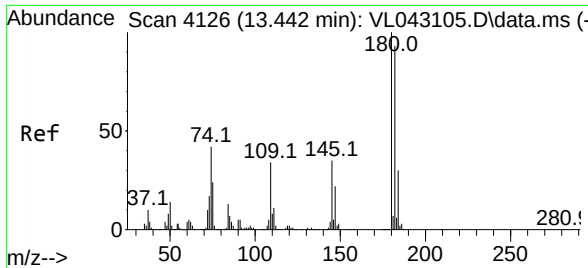


#80
Naphthalene,2-methyl-
Concen: 11.431 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31



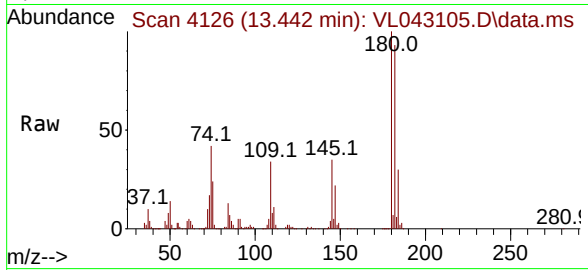
Tgt Ion:142 Resp: 147897
Ion Ratio Lower Upper
142 100
141 80.8 64.6 97.0
115 37.8 30.2 45.4





#81
 1,2,4-Trichlorobenzene
 Concen: 9.582 ppbv
 RT: 13.442 min Scan# 4126
 Delta R.T. 0.000 min
 Lab File: VL043105.D
 Acq: 14 Oct 2025 10:31

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

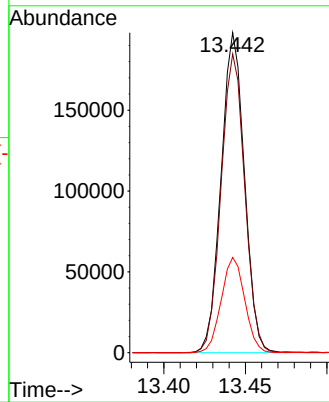
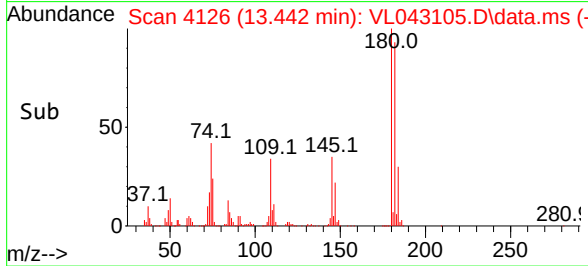


Tgt Ion:180 Resp: 197210

Ion	Ratio	Lower	Upper
180	100		
182	94.4	75.5	113.3
184	29.9	23.9	35.9

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
 Data File : VL043106.D
 Acq On : 14 Oct 2025 11:27
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025

Quant Time: Oct 15 01:51:55 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

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

QLast Update : Wed Oct 15 01:49:43 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.791	49	105309	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	342939	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	313603	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 244329 10.024 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.200%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	31189	2.083	ppbv	99
3) Chlorodifluoromethane	1.476	51	33217	2.050	ppbv	96
4) Chloromethane	1.535	50	12185	2.054	ppbv	93
5) Vinyl Chloride	1.583	62	11114	1.911	ppbv	92
6) Bromomethane	1.671	94	6672	2.092	ppbv	95
7) Chloroethane	1.706	64	5008	2.106	ppbv	97
8) Dichlorotetrafluoroethane	1.557	85	25897	2.140	ppbv	100
9) Propene	1.486	41	15177	2.112	ppbv	94
10) Heptane	4.982	43	42790	2.078	ppbv	97
11) Trichlorofluoromethane	1.881	101	31114	2.125	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.143	101	25091	2.128	ppbv	100
13) Ethanol	1.722	45	6363	2.394	ppbv	95
14) Bromoethene	1.784	108	9087	2.075	ppbv	97
15) Acetone	1.836	43	31756	2.225	ppbv	97
16) 1,3-Butadiene	1.612	39	13668	2.021	ppbv	99
17) tert-Butyl alcohol	2.043	59	40738	2.091	ppbv	96
18) 1,1-Dichloroethene	2.036	96	10794	2.100	ppbv	99
19) Isopropyl Alcohol	1.888	45	18326	2.073	ppbv #	40
20) Methylene Chloride	2.062	84	10694	1.906	ppbv #	82
21) Allyl Chloride	2.098	41	21902	2.090	ppbv	93
22) trans-1,2-Dichloroethene	2.344	96	12511	2.036	ppbv	98
23) Vinyl Acetate	2.464	43	48282	2.322	ppbv #	96
24) 1,1-Dichloroethane	2.412	63	25066	2.112	ppbv	99
25) Ethyl Acetate	2.836	43	74929	2.129	ppbv	99
26) Hexane	2.829	57	32595	2.010	ppbv	93
27) Carbon Disulfide	2.153	76	31705	2.134	ppbv	95
28) Methyl tert-Butyl Ether	2.441	73	16207	2.196	ppbv	98
29) Chloroform	2.849	83	48367	2.058	ppbv	99
30) Cyclohexane	3.859	84	29270	2.069	ppbv	99
31) cis-1,2-Dichloroethene	2.723	61	31925	2.061	ppbv	97
32) 1,1,1-Trichloroethane	3.370	97	51049	2.086	ppbv	98
34) 2-Butanone	2.558	43	48458	2.090	ppbv	99
35) Carbon Tetrachloride	3.765	117	51073	2.071	ppbv	97
36) Benzene	3.658	78	70156	2.172	ppbv	98
37) 1,2-Dichloroethane	3.218	62	38767	2.083	ppbv	100
38) Trichloroethene	4.551	130	27272	2.024	ppbv	96
39) 1,2-Dichloropropane	4.315	63	25427	2.151	ppbv	92
40) 1,4-Dioxane	4.584	88	11102m	2.101	ppbv	
41) Tetrahydrofuran	3.059	42	26362	2.037	ppbv	98
42) Bromodichloromethane	4.496	83	54224	2.106	ppbv #	93
43) Methyl Methacrylate	4.878	69	33805	2.051	ppbv	99
44) 2,2,4-Trimethylpentane	4.642	57	115417	2.137	ppbv	99
45) t-1,3-Dichloropropene	6.416	75	34728	2.109	ppbv	90

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
 Data File : VL043106.D
 Acq On : 14 Oct 2025 11:27
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025

Quant Time: Oct 15 01:51:55 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

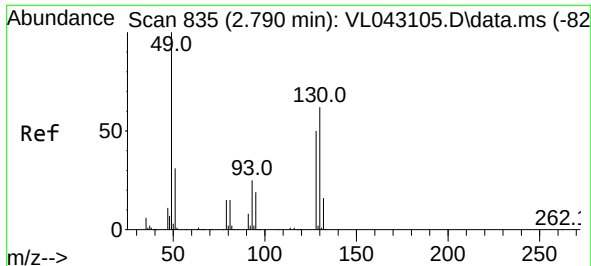
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Wed Oct 15 01:49:43 2025

Response via : Initial Calibration

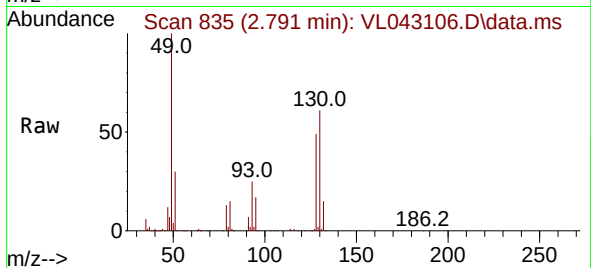
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.606	75	41365m	2.105	ppbv	
47) 1,1,2-Trichloroethane	6.584	97	26359	2.067	ppbv	94
48) Dibromochloromethane	7.390	129	45751	2.146	ppbv	99
49) Bromoform	9.484	173	37314	2.153	ppbv	99
50) 4-Methyl-2-Pentanone	5.752	43	66811	2.089	ppbv	99
51) 2-Hexanone	7.438	43	50642	2.122	ppbv #	99
52) Tetrachloroethene	8.228	164	24183	2.076	ppbv	91
53) Toluene	6.937	91	80660	2.104	ppbv	99
54) 1,2-Dibromoethane	7.655	107	42320	2.103	ppbv	94
56) 1,1,1,2-Tetrachloroethane	8.924	131	41712	2.110	ppbv	94
57) Chlorobenzene	8.924	112	62714	2.138	ppbv	97
58) Ethyl Benzene	9.354	91	114403	2.109	ppbv	99
59) m/p-Xylene	9.532	91	185190m	4.311	ppbv	
60) o-Xylene	9.963	91	91223	2.152	ppbv	98
61) Styrene	9.872	104	41631	2.175	ppbv	98
62) Isopropylbenzene	10.539	105	164073	2.142	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.966	83	58510	2.061	ppbv	99
64) n-propylbenzene	10.989	120	43648	2.152	ppbv	96
65) tert-Butylbenzene	11.529	119	148300	2.192	ppbv	99
66) Benzyl Chloride	11.617	91	15656	2.072	ppbv	98
67) sec-Butylbenzene	11.769	105	210525	2.193	ppbv	99
69) p-Isopropyltoluene	11.928	119	180060	2.207	ppbv	99
70) n-Butylbenzene	12.284	91	178676	2.222	ppbv	98
71) 2-Chlorotoluene	10.902	91	126551	2.166	ppbv	99
72) 4-Ethyltoluene	11.125	105	113233	2.172	ppbv	98
73) 1,3,5-Trimethylbenzene	11.206	105	92650	2.155	ppbv	99
74) 1,2,4-Trimethylbenzene	11.536	105	104352	2.169	ppbv	98
75) 1,3-Dichlorobenzene	11.607	146	62709	2.247	ppbv	99
76) 1,4-Dichlorobenzene	11.672	146	60877	2.164	ppbv	100
77) 1,2-Dichlorobenzene	11.947	146	57304	2.123	ppbv	97
78) Hexachloro-1,3-Butadiene	13.883	225	46796	2.239	ppbv	98
79) Naphthalene	13.514	128	123642	2.488	ppbv	99
80) Naphthalene,2-methyl-	14.459	142	32308	2.462	ppbv	98
81) 1,2,4-Trichlorobenzene	13.442	180	50394	2.414	ppbv	99

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.791 min Scan# 835
Delta R.T. 0.001 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

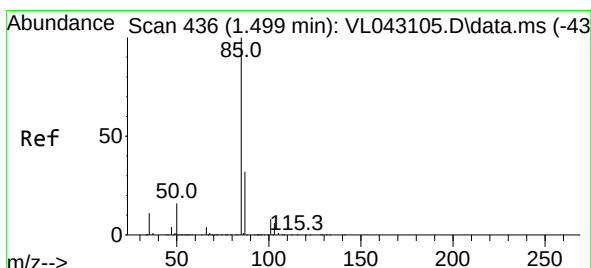
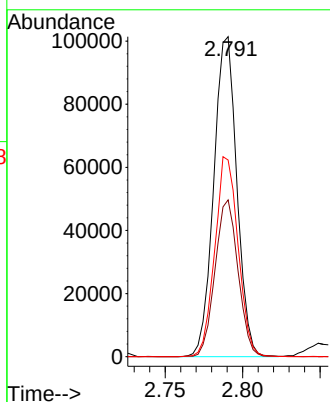
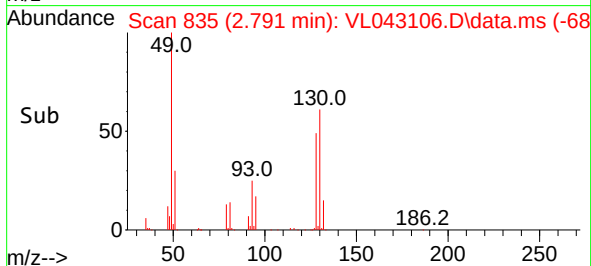
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



Tgt Ion: 49 Resp: 105309
Ion Ratio Lower Upper
49 100
128 48.8 24.4 73.4
130 62.8 31.0 93.0

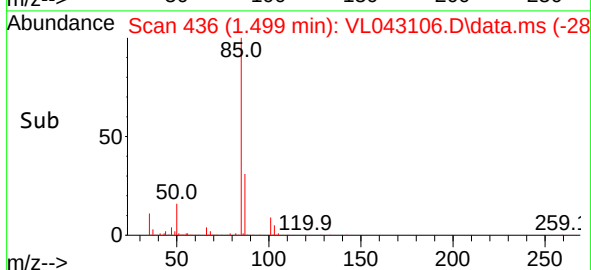
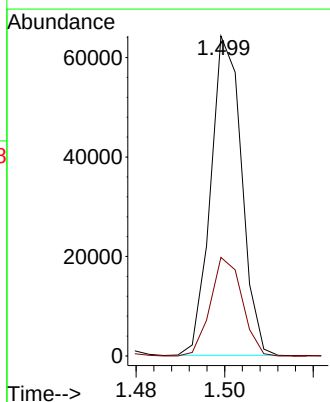
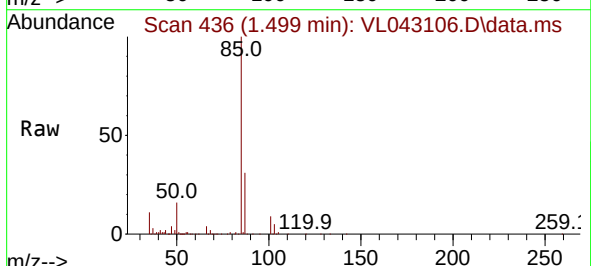
Manual Integrations
APPROVED

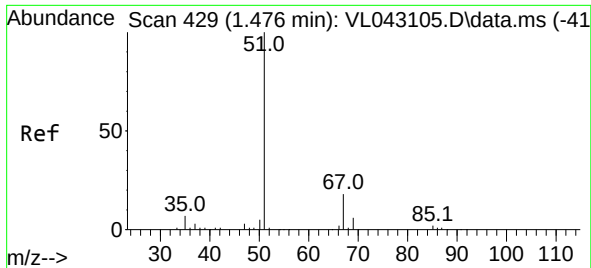
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#2
Dichlorodifluoromethane
Concen: 2.083 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 85 Resp: 31189
Ion Ratio Lower Upper
85 100
87 30.9 25.3 37.9





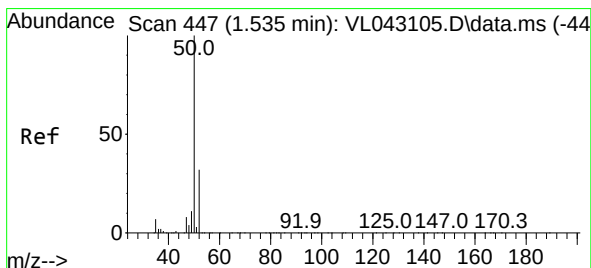
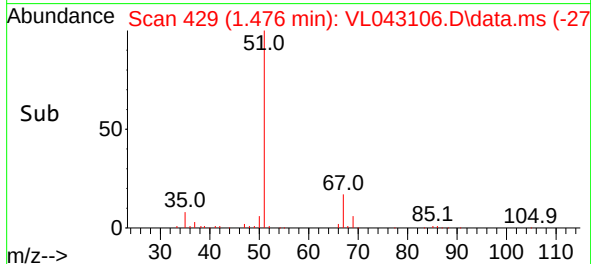
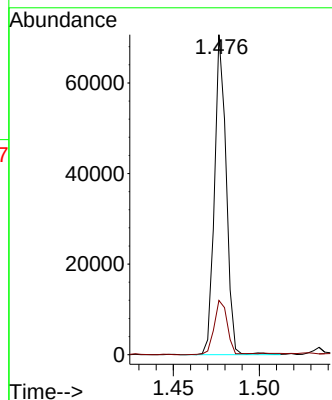
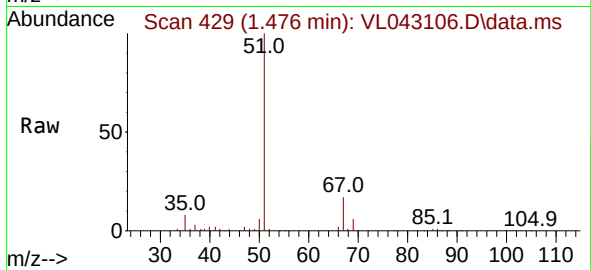
#3
Chlorodifluoromethane
Concen: 2.050 ppbv
RT: 1.476 min Scan# 429
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion: 51 Resp: 3321
Ion Ratio Lower Upper
51 100
67 20.6 15.1 22.7

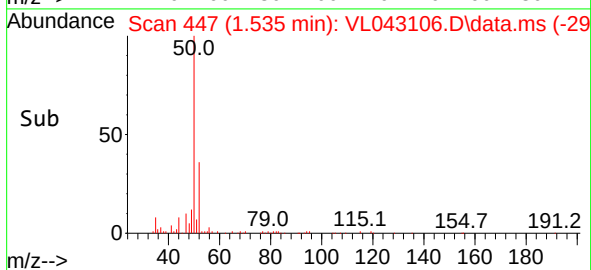
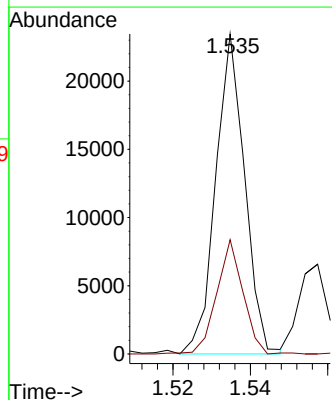
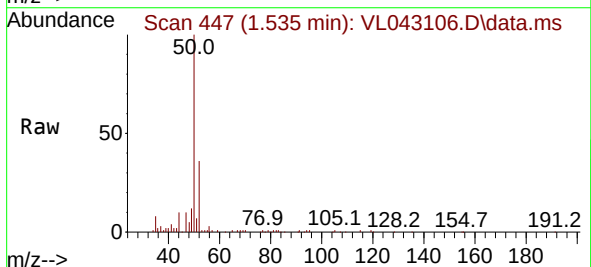
Manual Integrations
APPROVED

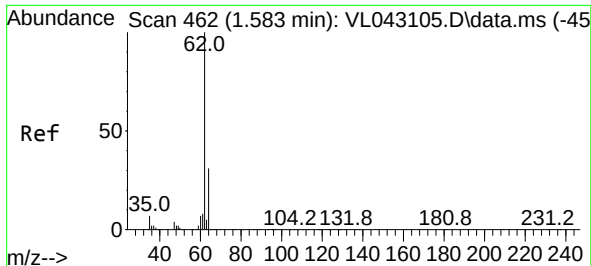
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#4
Chloromethane
Concen: 2.054 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

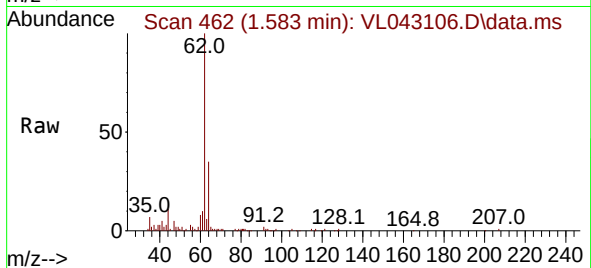
Tgt Ion: 50 Resp: 12185
Ion Ratio Lower Upper
50 100
52 35.4 25.2 37.8





#5
 Vinyl Chloride
 Concen: 1.911 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. 0.000 min
 Lab File: VL043106.D
 Acq: 14 Oct 2025 11:27

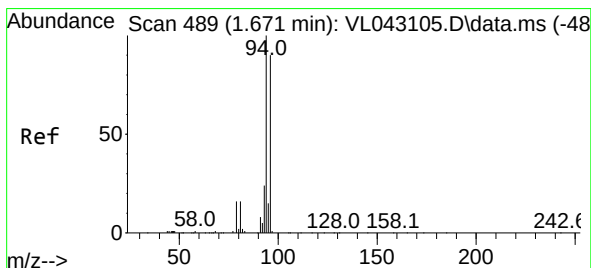
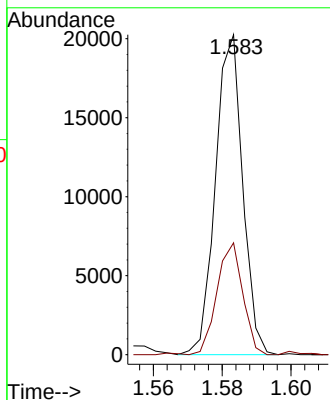
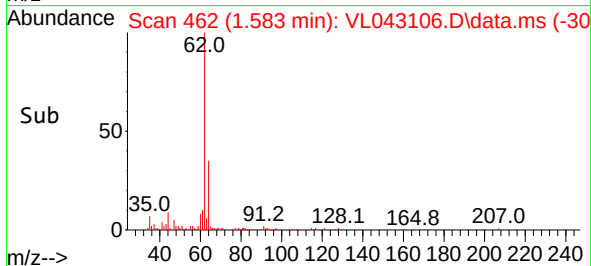
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002



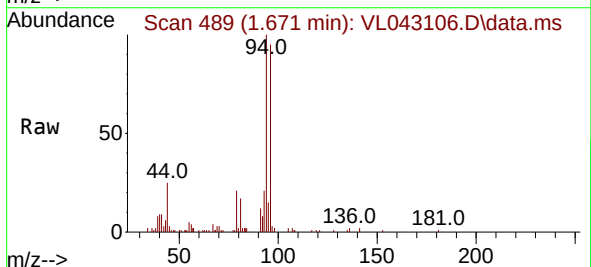
Tgt Ion: 62 Resp: 11114
 Ion Ratio Lower Upper
 62 100
 64 35.0 24.6 36.8

Manual Integrations
 APPROVED

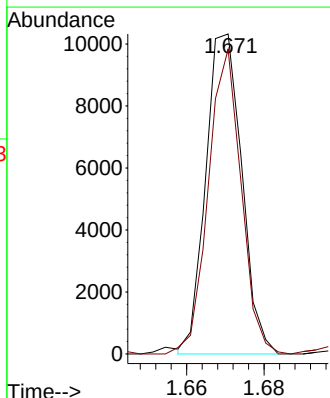
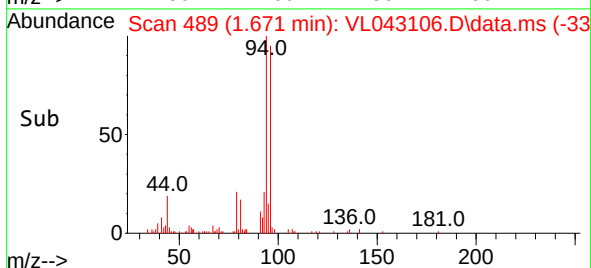
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025

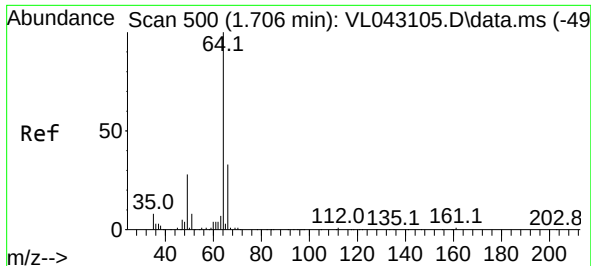


#6
 Bromomethane
 Concen: 2.092 ppbv
 RT: 1.671 min Scan# 489
 Delta R.T. 0.000 min
 Lab File: VL043106.D
 Acq: 14 Oct 2025 11:27



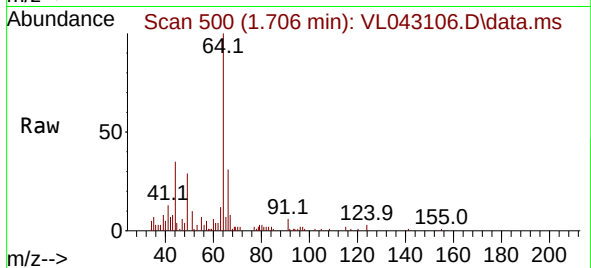
Tgt Ion: 94 Resp: 6672
 Ion Ratio Lower Upper
 94 100
 96 94.6 72.2 108.4





#7
Chloroethane
Concen: 2.106 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

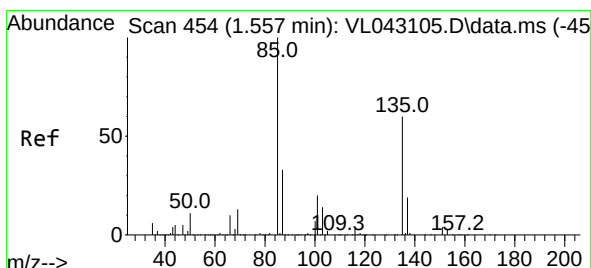
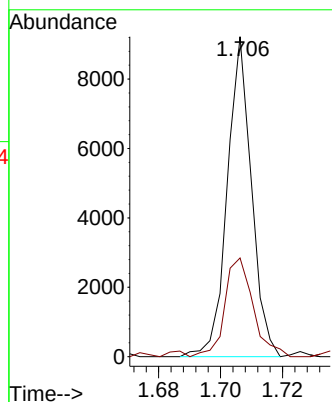
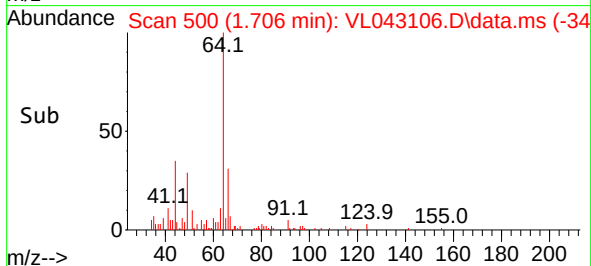
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



Tgt Ion: 64 Resp: 5008
Ion Ratio Lower Upper
64 100
66 30.8 26.0 39.0

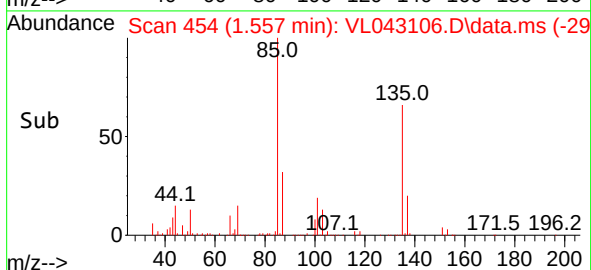
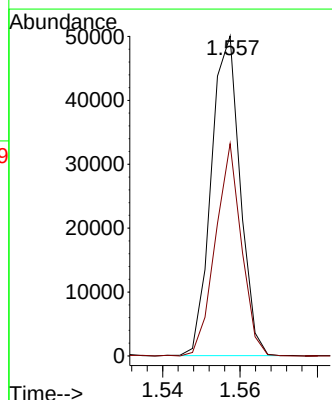
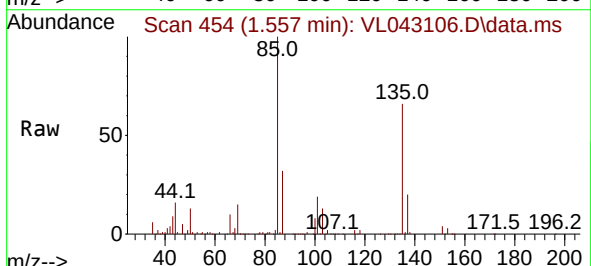
Manual Integrations
APPROVED

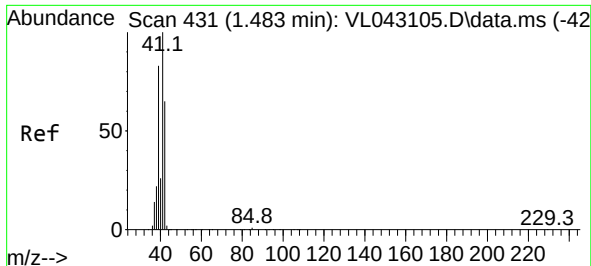
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#8
Dichlorotetrafluoroethane
Concen: 2.140 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 85 Resp: 25897
Ion Ratio Lower Upper
85 100
135 60.1 48.2 72.4





#9

Propene

Concen: 2.112 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

Tgt Ion: 41 Resp: 1517

Ion Ratio Lower Upper

41 100

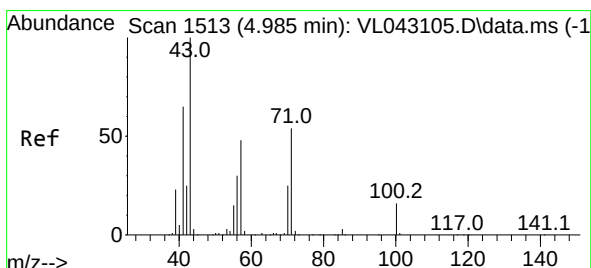
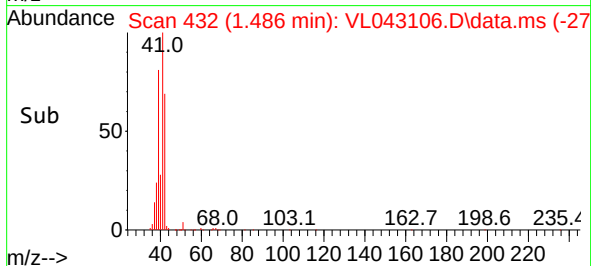
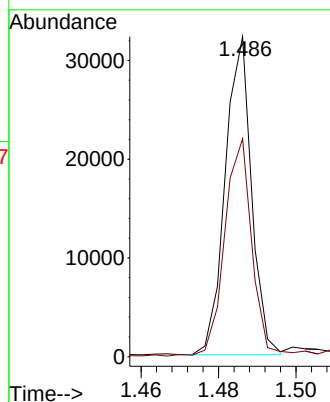
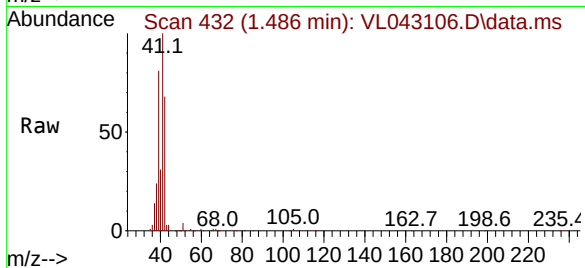
42 74.0 55.1 82.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#10

Heptane

Concen: 2.078 ppbv

RT: 4.982 min Scan# 1512

Delta R.T. -0.003 min

Lab File: VL043106.D

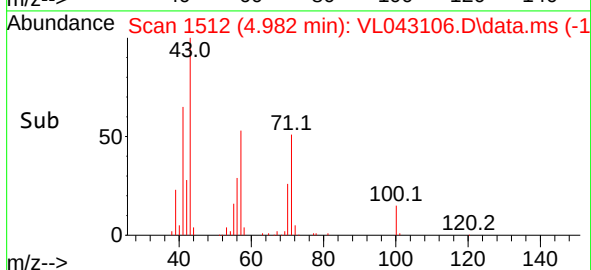
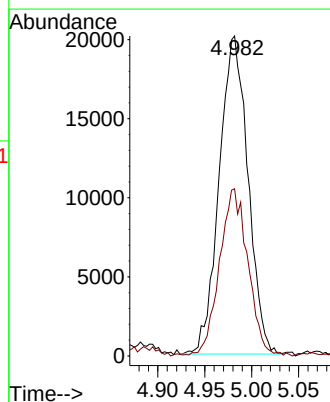
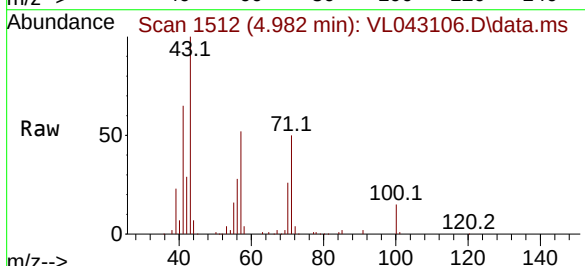
Acq: 14 Oct 2025 11:27

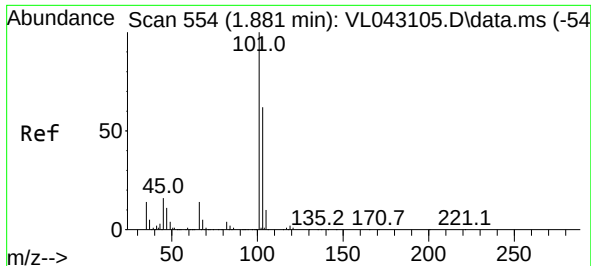
Tgt Ion: 43 Resp: 42790

Ion Ratio Lower Upper

43 100

57 52.8 40.8 61.2





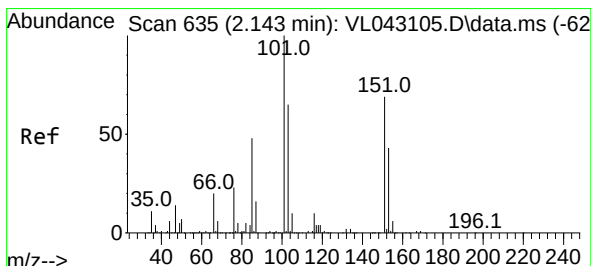
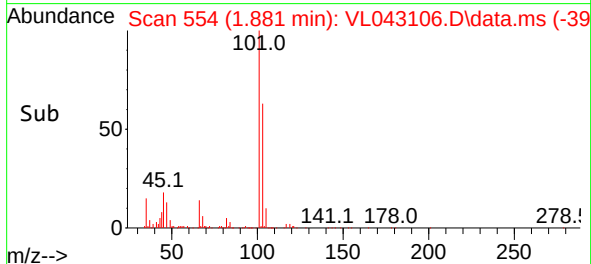
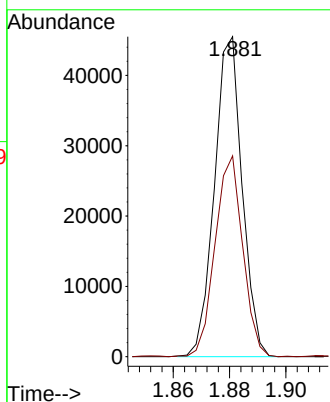
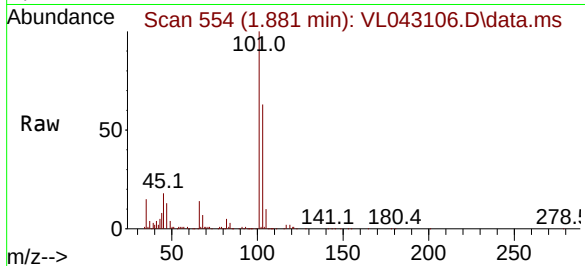
#11
 Trichlorofluoromethane
 Concen: 2.125 ppbv
 RT: 1.881 min Scan# 511
 Delta R.T. 0.000 min
 Lab File: VL043106.D
 Acq: 14 Oct 2025 11:27

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tgt Ion:101 Resp: 31114
 Ion Ratio Lower Upper
 101 100
 103 62.8 49.3 73.9

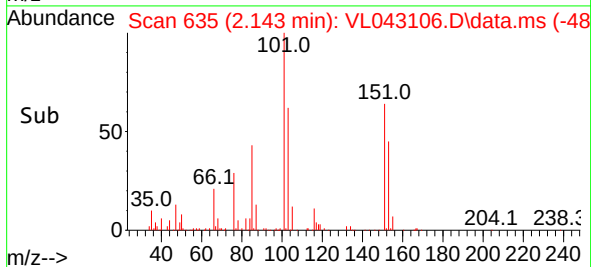
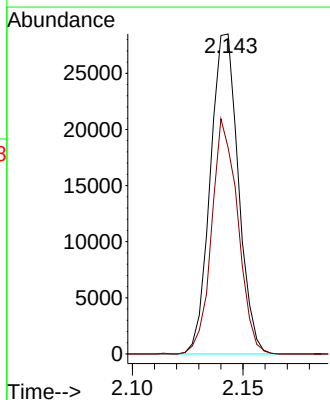
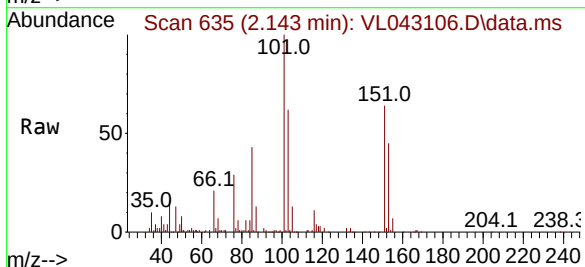
Manual Integrations
 APPROVED

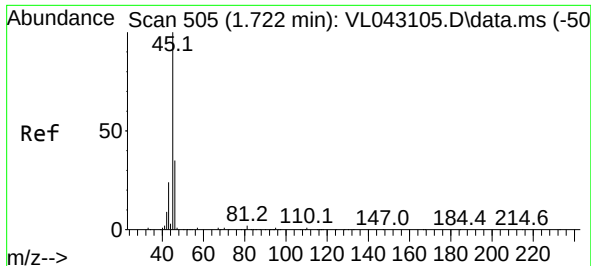
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 2.128 ppbv
 RT: 2.143 min Scan# 635
 Delta R.T. 0.000 min
 Lab File: VL043106.D
 Acq: 14 Oct 2025 11:27

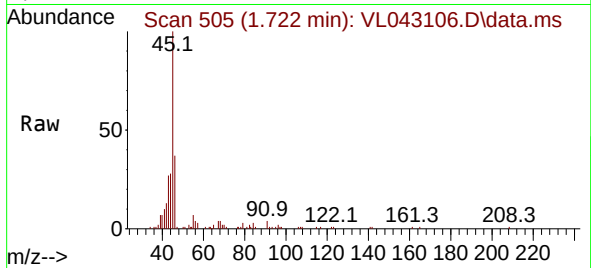
Tgt Ion:101 Resp: 25091
 Ion Ratio Lower Upper
 101 100
 151 68.5 54.7 82.1





#13
Ethanol
Concen: 2.394 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

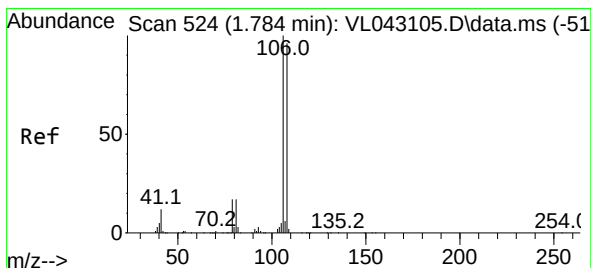
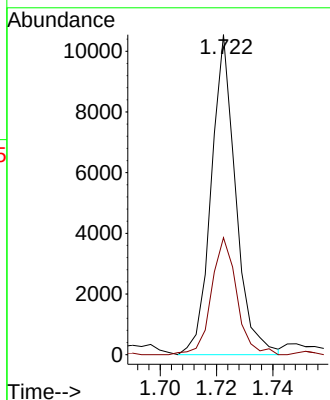
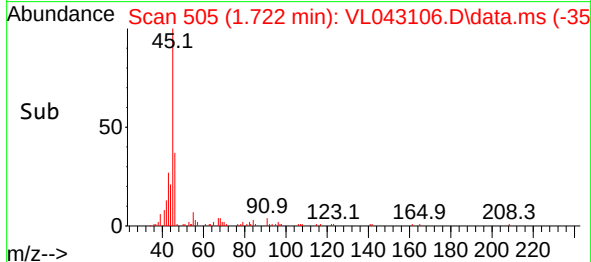
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



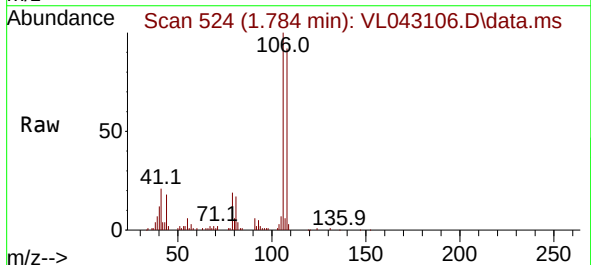
Tgt Ion: 45 Resp: 636
Ion Ratio Lower Upper
45 100
46 39.6 14.7 58.9

Manual Integrations
APPROVED

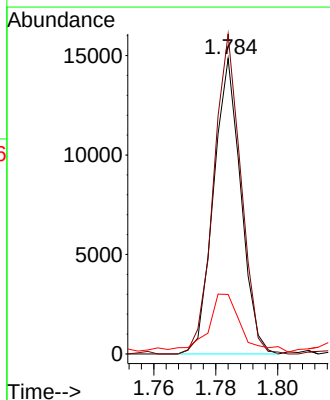
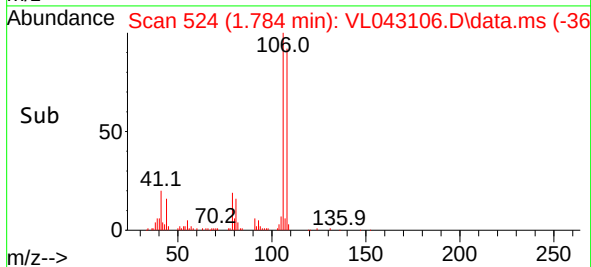
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

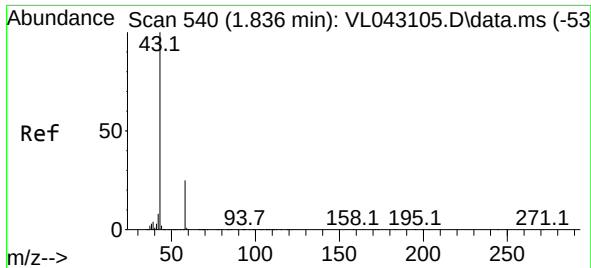


#14
Bromoethene
Concen: 2.075 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27



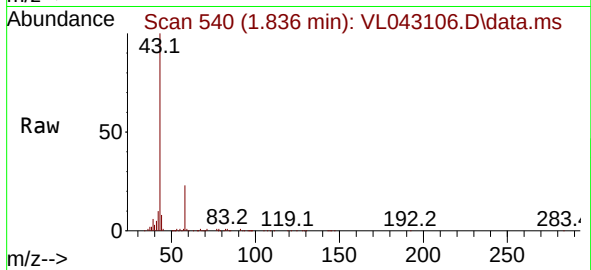
Tgt Ion:108 Resp: 9087
Ion Ratio Lower Upper
108 100
106 109.1 84.4 126.6
79 19.1 15.3 22.9





#15
Acetone
Concen: 2.225 ppbv
RT: 1.836 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

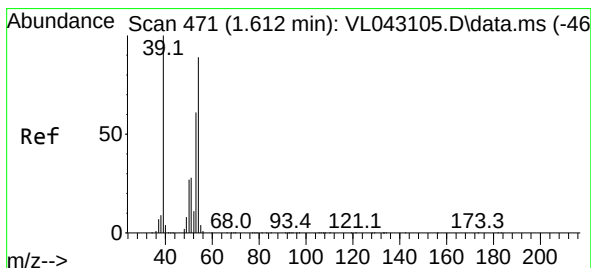
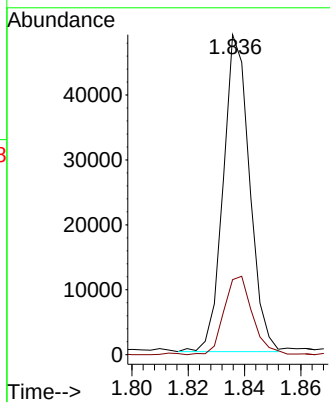
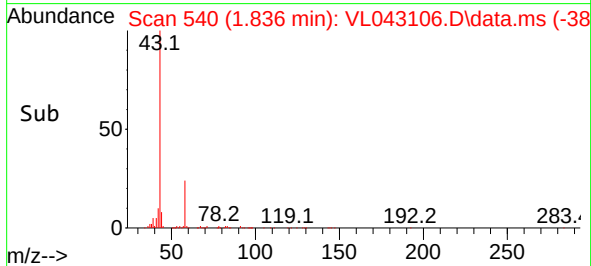
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



Tgt Ion: 43 Resp: 31750
Ion Ratio Lower Upper
43 100
58 27.3 20.8 31.2

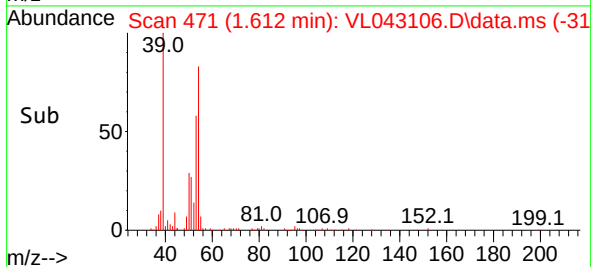
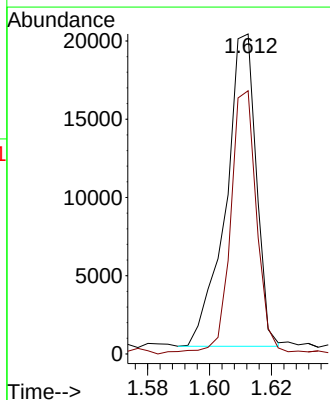
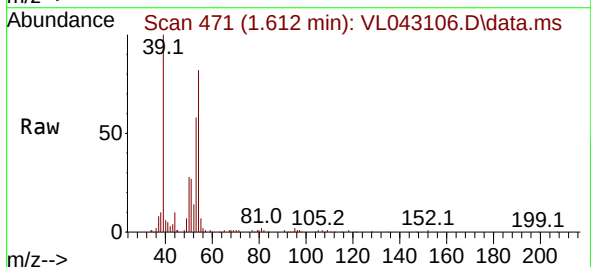
Manual Integrations
APPROVED

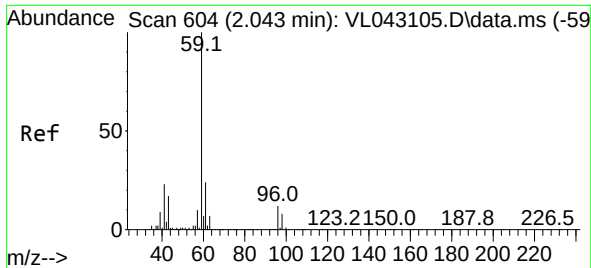
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#16
1,3-Butadiene
Concen: 2.021 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 39 Resp: 13668
Ion Ratio Lower Upper
39 100
54 74.3 59.0 88.4





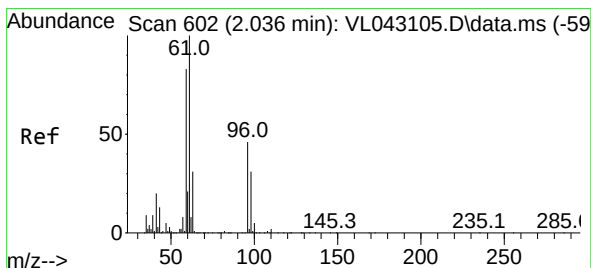
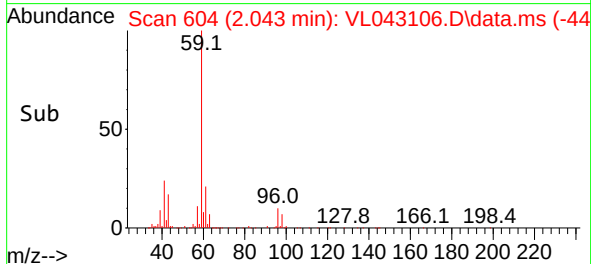
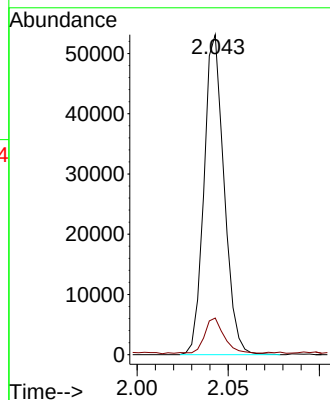
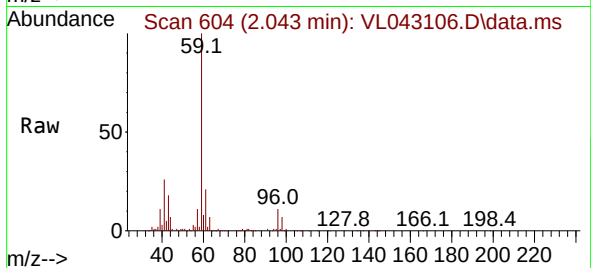
#17
tert-Butyl alcohol
Concen: 2.091 ppbv
RT: 2.043 min Scan# 604
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Instrument :
MSVOA_L
Client Sample Id :
VSTDICC002

Tgt Ion: 59 Resp: 40738
Ion Ratio Lower Upper
59 100
57 11.9 8.2 12.4

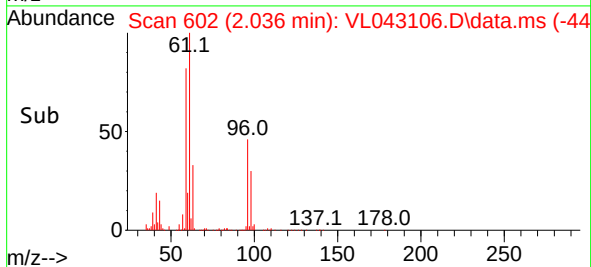
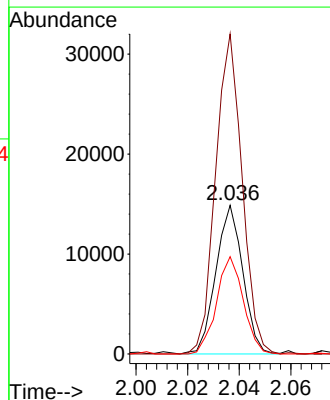
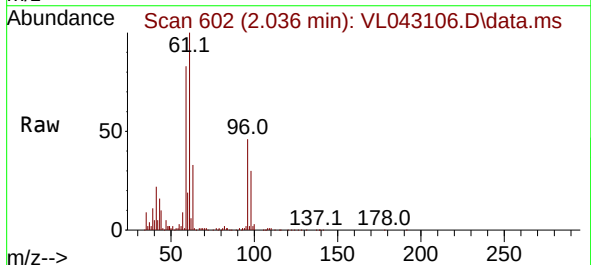
Manual Integrations
APPROVED

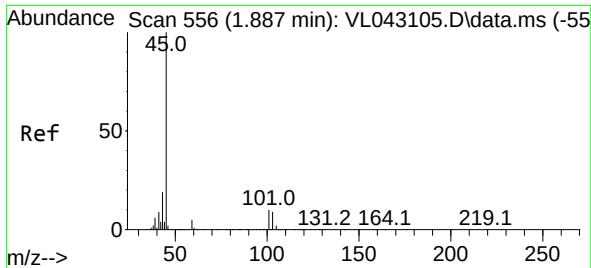
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#18
1,1-Dichloroethene
Concen: 2.100 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

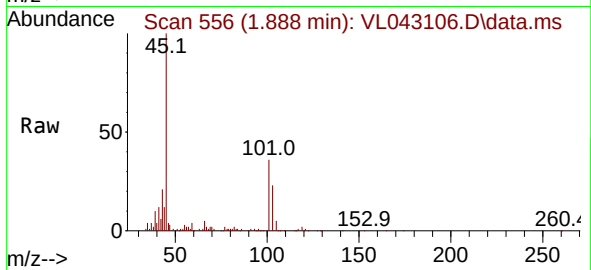
Tgt Ion: 96 Resp: 10794
Ion Ratio Lower Upper
96 100
61 215.2 173.4 260.0
98 65.4 53.2 79.8





#19
Isopropyl Alcohol
Concen: 2.073 ppbv
RT: 1.888 min Scan# 511
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

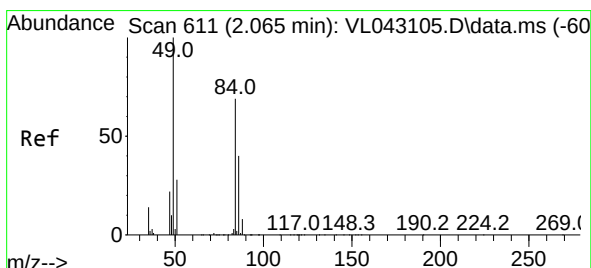
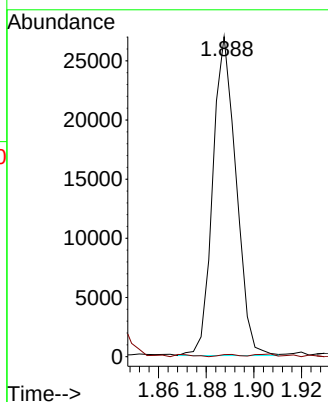
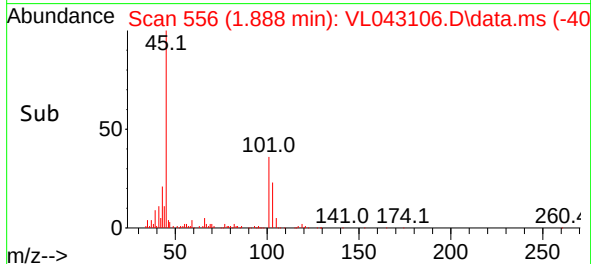
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



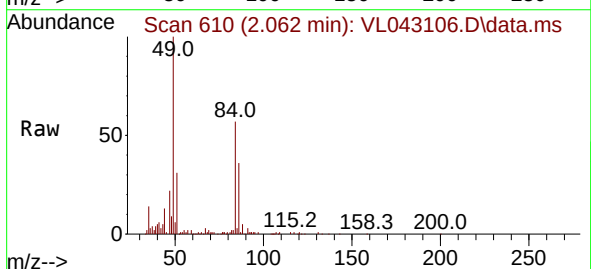
Tgt Ion: 45 Resp: 18320
Ion Ratio Lower Upper
45 100
58 2.3 31.3 46.9

Manual Integrations
APPROVED

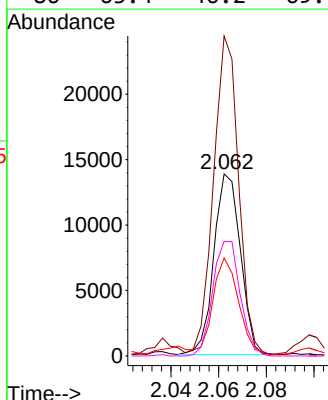
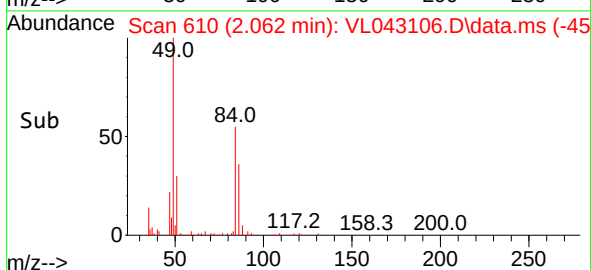
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

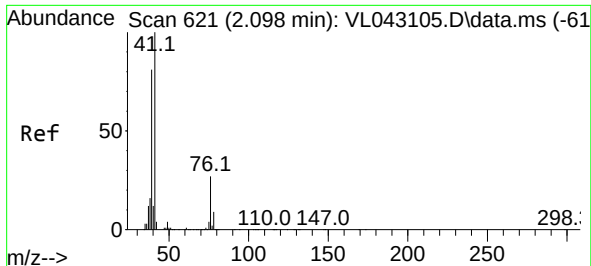


#20
Methylene Chloride
Concen: 1.906 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27



Tgt Ion: 84 Resp: 10694
Ion Ratio Lower Upper
84 100
49 175.6 116.6 175.0#
51 53.2 34.8 52.2#
86 63.4 46.2 69.4





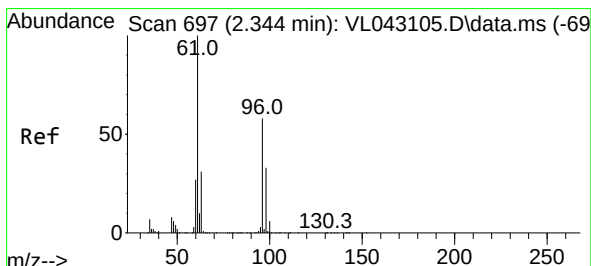
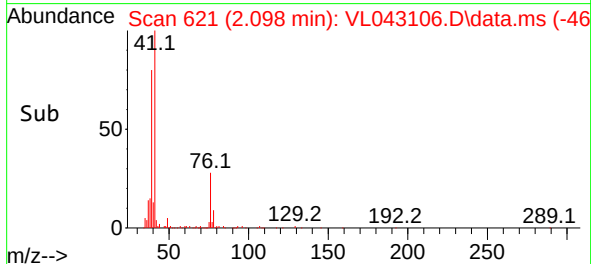
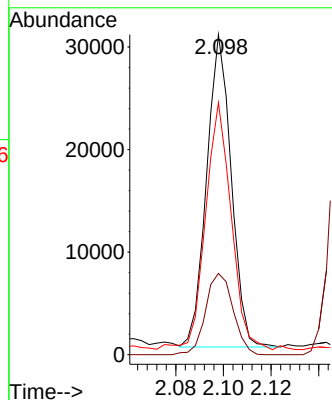
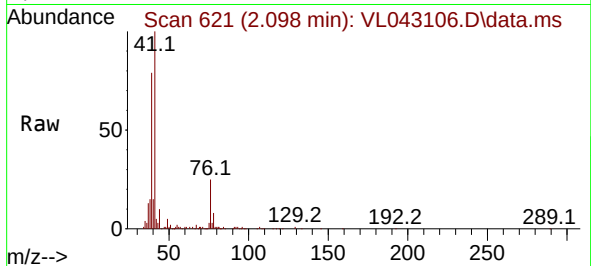
#21
 Allyl Chloride
 Concen: 2.090 ppbv
 RT: 2.098 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: VL043106.D
 Acq: 14 Oct 2025 11:27

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tgt Ion: 41 Resp: 2190
 Ion Ratio Lower Upper
 41 100
 76 28.9 21.5 32.3
 39 83.1 60.8 91.2

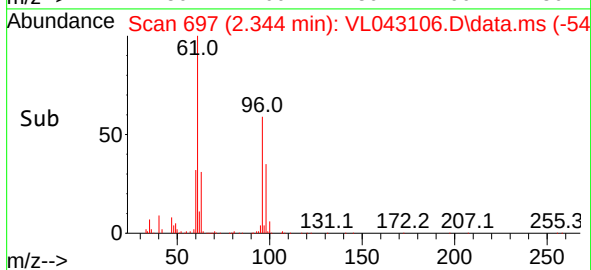
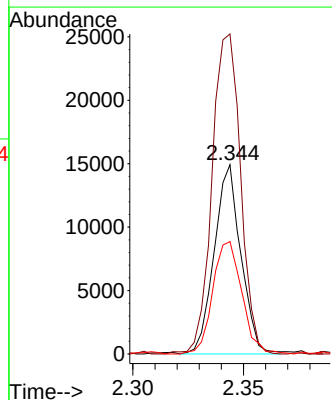
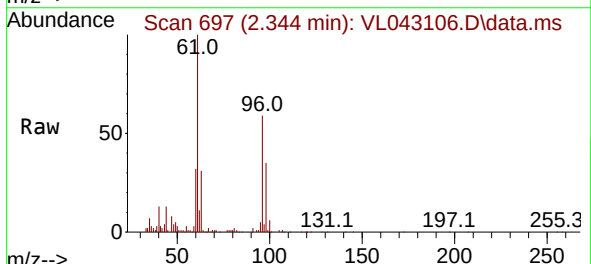
Manual Integrations
 APPROVED

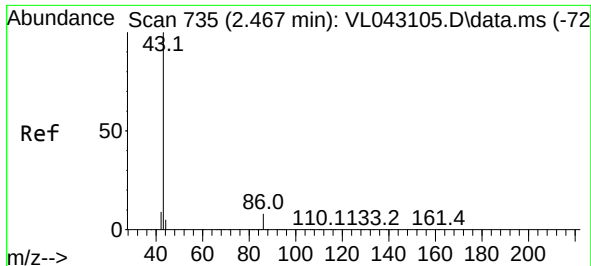
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025



#22
 trans-1,2-Dichloroethene
 Concen: 2.036 ppbv
 RT: 2.344 min Scan# 697
 Delta R.T. 0.000 min
 Lab File: VL043106.D
 Acq: 14 Oct 2025 11:27

Tgt Ion: 96 Resp: 12511
 Ion Ratio Lower Upper
 96 100
 61 169.0 137.0 205.6
 98 59.3 45.5 68.3





#23
 Vinyl Acetate
 Concen: 2.322 ppbv
 RT: 2.464 min Scan# 718
 Delta R.T. -0.003 min
 Lab File: VL043106.D
 Acq: 14 Oct 2025 11:27

Instrument :

MSVOA_L

ClientSampleId :

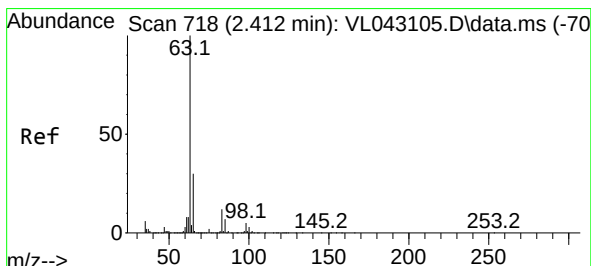
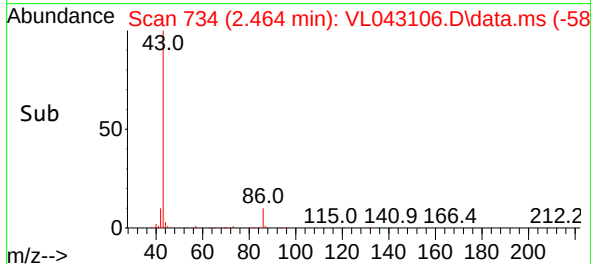
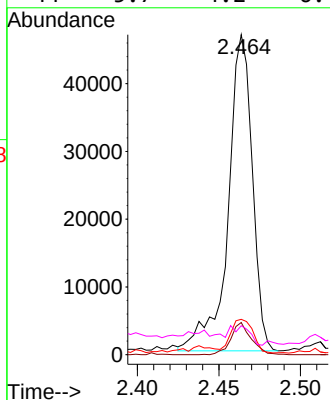
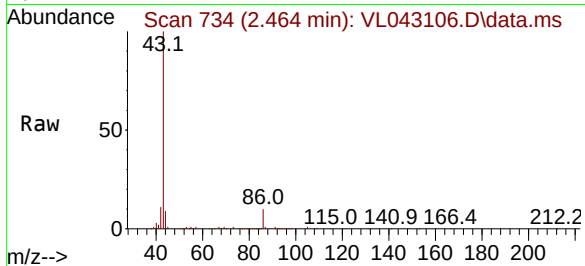
VSTDIC002

Tgt Ion: 43 Resp: 4828
 Ion Ratio Lower Upper
 43 100
 86 10.1 6.2 9.2
 42 10.6 7.6 11.4
 44 5.7 4.2 6.4

Manual Integrations

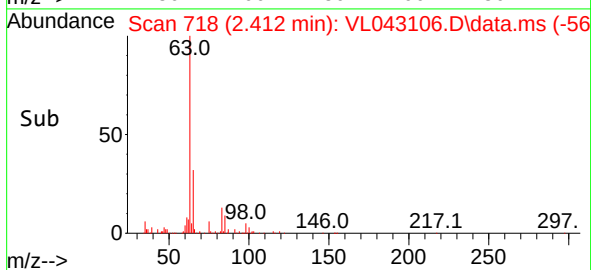
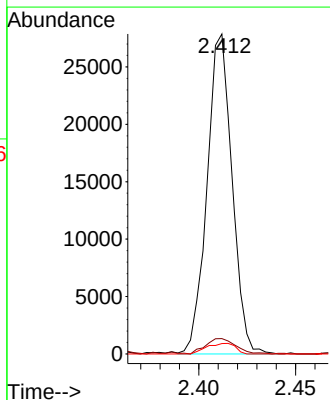
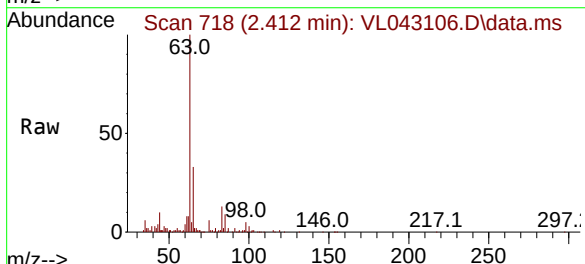
APPROVED

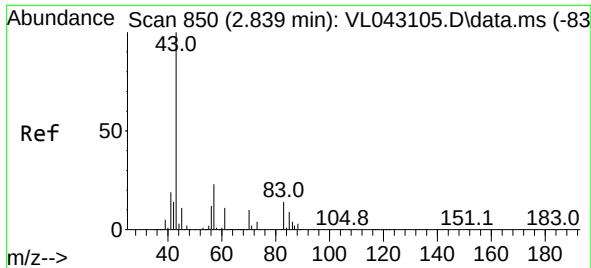
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025



#24
 1,1-Dichloroethane
 Concen: 2.112 ppbv
 RT: 2.412 min Scan# 718
 Delta R.T. 0.000 min
 Lab File: VL043106.D
 Acq: 14 Oct 2025 11:27

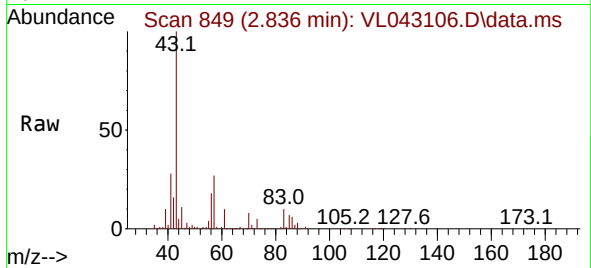
Tgt Ion: 63 Resp: 25066
 Ion Ratio Lower Upper
 63 100
 98 4.9 2.6 7.8
 100 3.2 1.5 4.4





#25
Ethyl Acetate
Concen: 2.129 ppbv
RT: 2.836 min Scan# 849
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

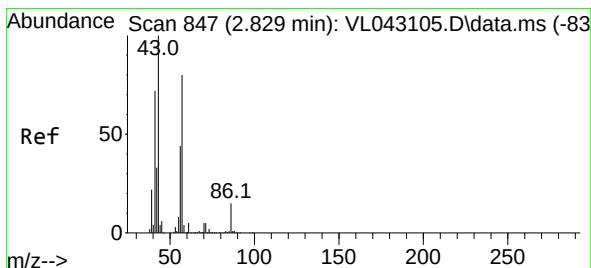
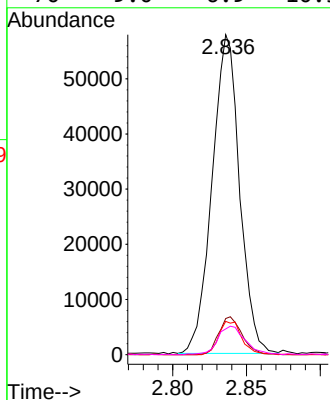
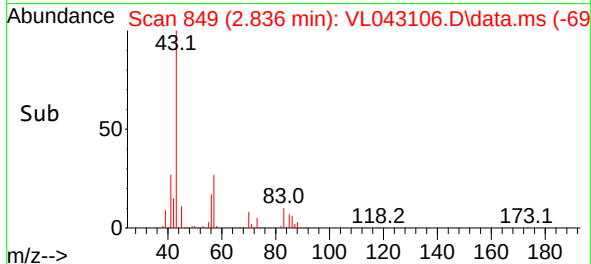
Instrument : MSVOA_L
ClientSampleId : VSTDIC002



Tgt Ion: 43 Resp: 74929
Ion Ratio Lower Upper
43 100
45 10.1 7.8 11.8
61 8.9 7.0 10.6
70 9.0 6.9 10.3

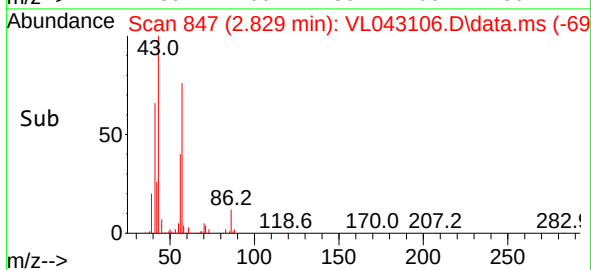
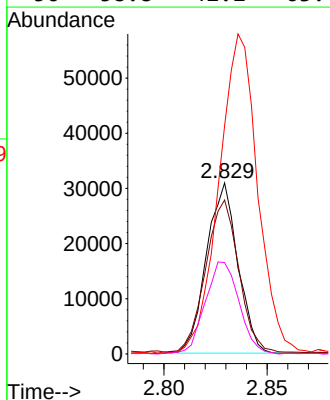
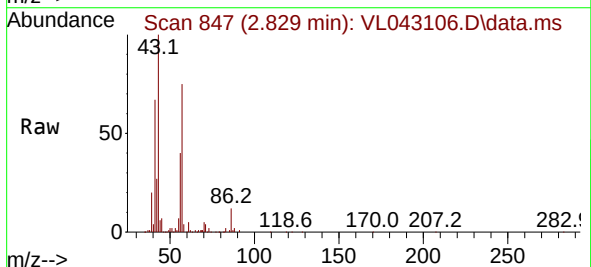
Manual Integrations
APPROVED

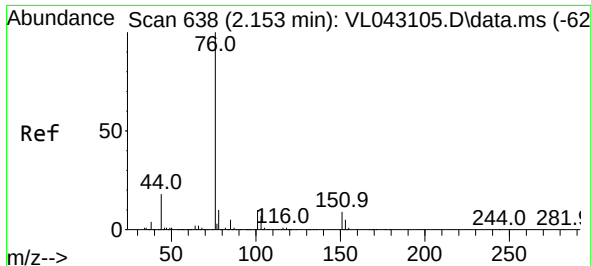
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#26
Hexane
Concen: 2.010 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 57 Resp: 32595
Ion Ratio Lower Upper
57 100
41 96.4 71.4 107.0
43 233.0 178.5 267.7
56 58.8 42.2 63.4





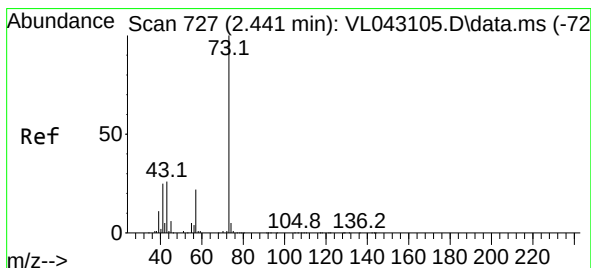
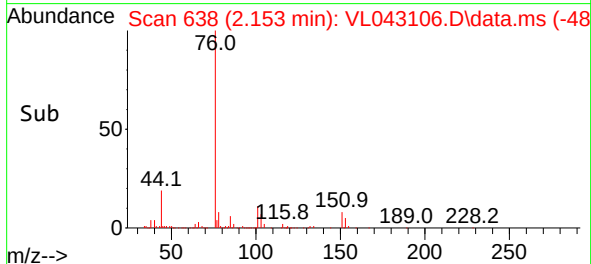
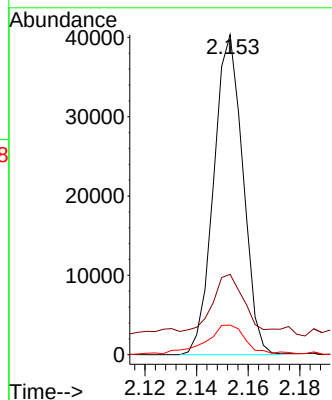
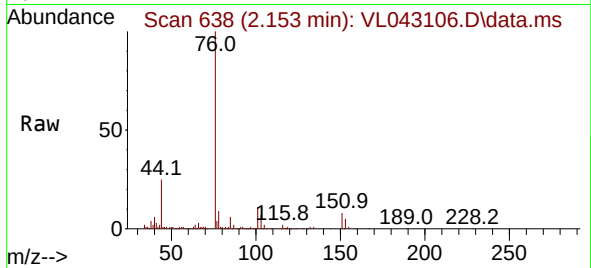
#27
Carbon Disulfide
Concen: 2.134 ppbv
RT: 2.153 min Scan# 638
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 76 Resp: 3170
Ion Ratio Lower Upper
76 100
44 23.1 16.7 25.1
78 13.6 9.3 13.9

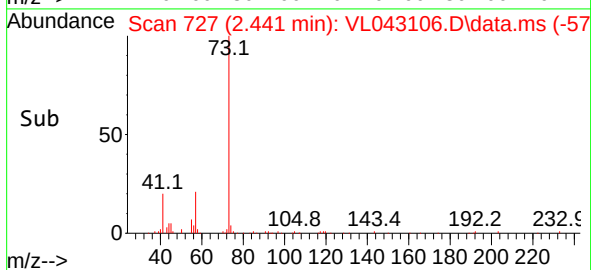
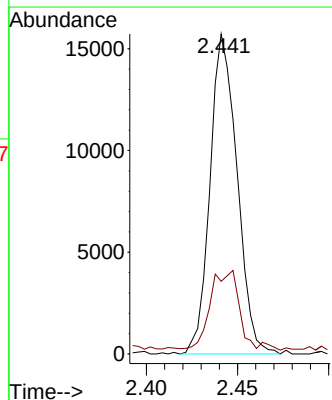
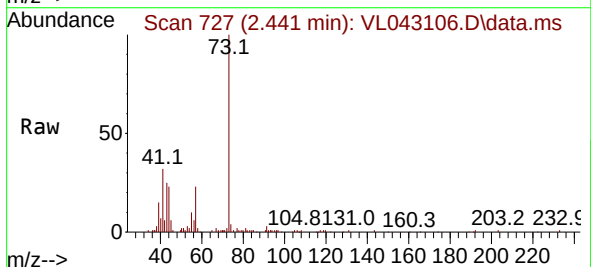
Manual Integrations
APPROVED

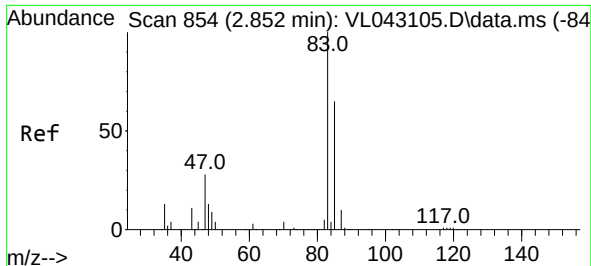
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#28
Methyl tert-Butyl Ether
Concen: 2.196 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 73 Resp: 16207
Ion Ratio Lower Upper
73 100
57 26.6 20.5 30.7





#29

Chloroform

Concen: 2.058 ppbv

RT: 2.849 min Scan# 81

Delta R.T. -0.003 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

Tgt Ion: 83 Resp: 4836

Ion Ratio Lower Upper

83 100

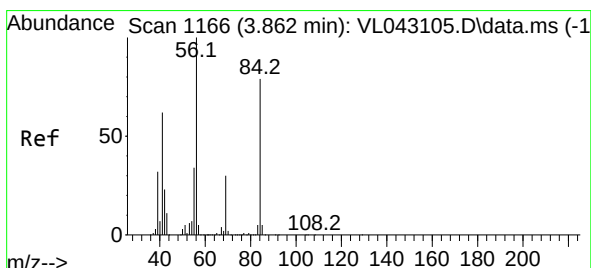
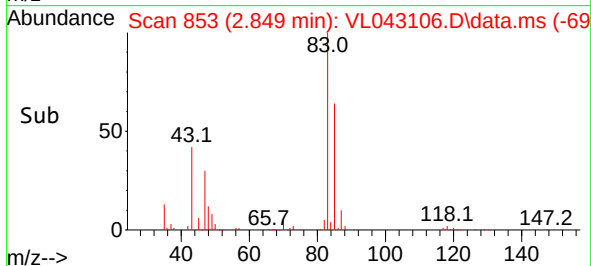
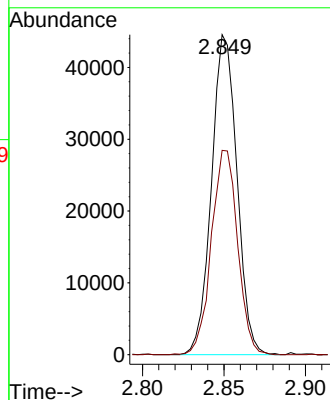
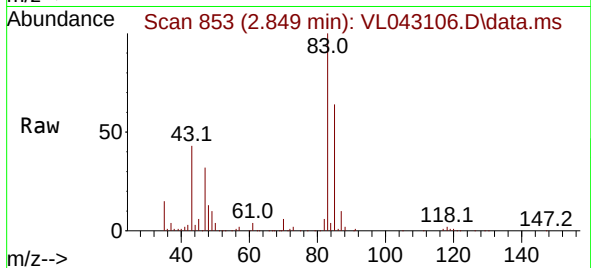
85 63.9 51.8 77.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#30

Cyclohexane

Concen: 2.069 ppbv

RT: 3.859 min Scan# 1165

Delta R.T. -0.003 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

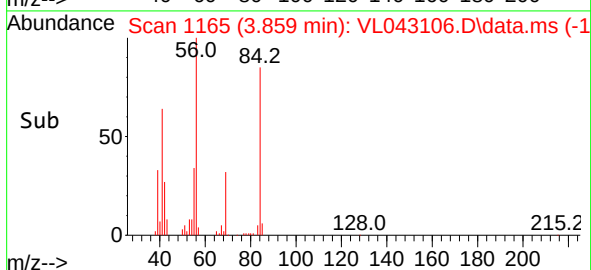
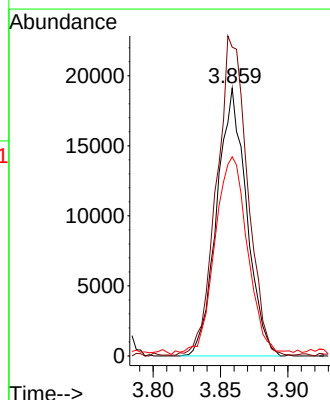
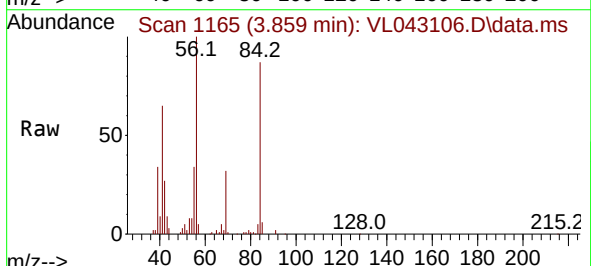
Tgt Ion: 84 Resp: 29270

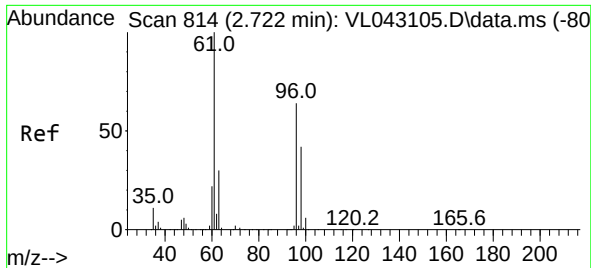
Ion Ratio Lower Upper

84 100

56 125.6 100.9 151.3

41 79.0 63.8 95.6





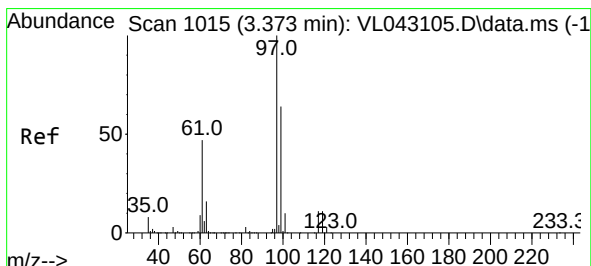
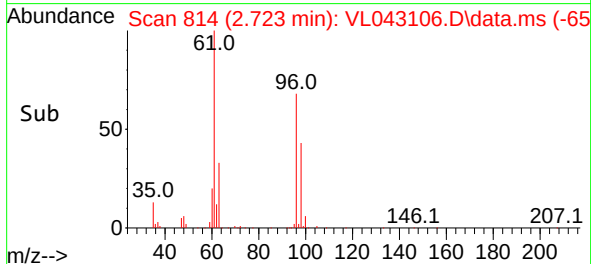
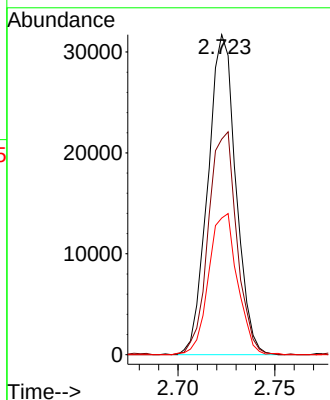
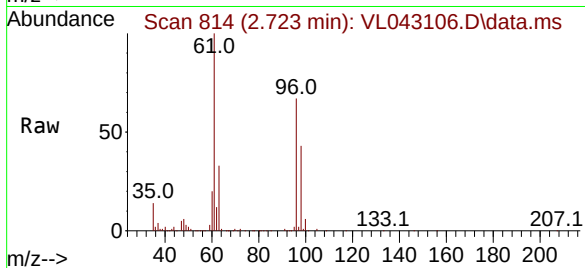
#31
 cis-1,2-Dichloroethene
 Concen: 2.061 ppbv
 RT: 2.723 min Scan# 814
 Delta R.T. 0.000 min
 Lab File: VL043106.D
 Acq: 14 Oct 2025 11:27

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Tgt Ion: 61 Resp: 31925
 Ion Ratio Lower Upper
 61 100
 96 67.3 51.0 76.6
 98 42.3 33.5 50.3

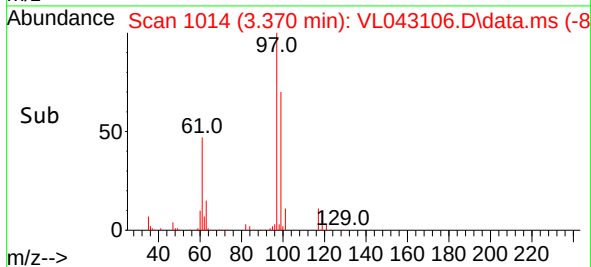
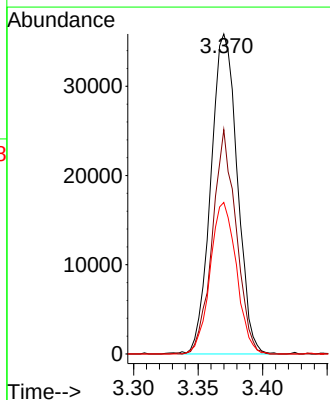
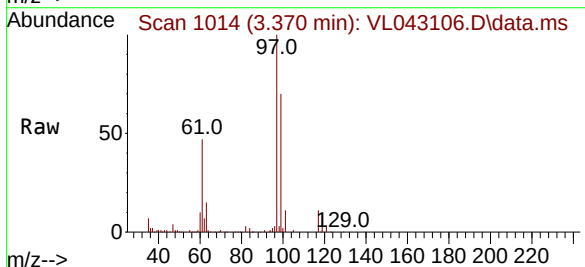
Manual Integrations
 APPROVED

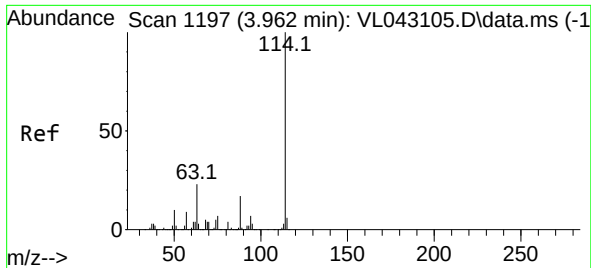
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025



#32
 1,1,1-Trichloroethane
 Concen: 2.086 ppbv
 RT: 3.370 min Scan# 1014
 Delta R.T. -0.003 min
 Lab File: VL043106.D
 Acq: 14 Oct 2025 11:27

Tgt Ion: 97 Resp: 51049
 Ion Ratio Lower Upper
 97 100
 99 62.8 51.3 76.9
 61 46.9 38.4 57.6





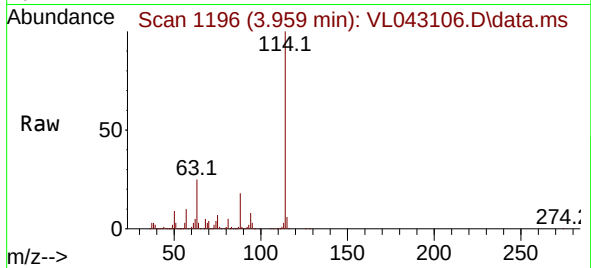
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

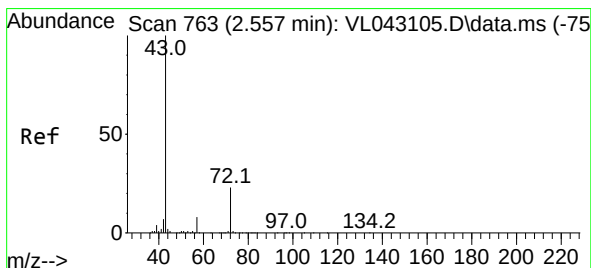
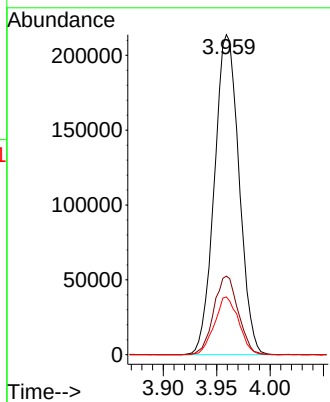
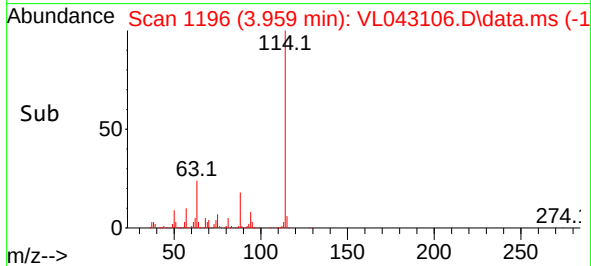


Tgt Ion:114 Resp: 342939
Ion Ratio Lower Upper
114 100
63 24.5 19.3 28.9
88 17.8 13.9 20.9

Manual Integrations

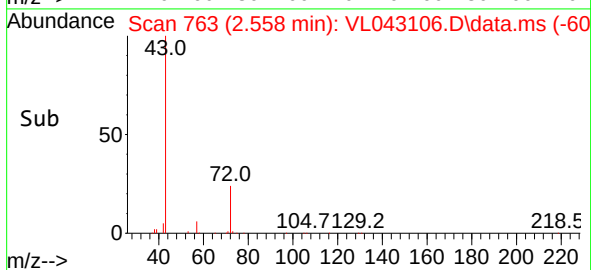
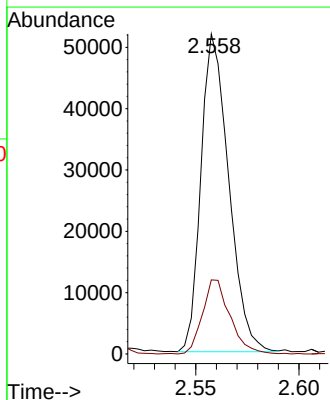
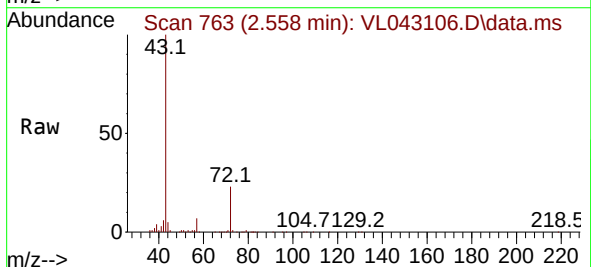
APPROVED

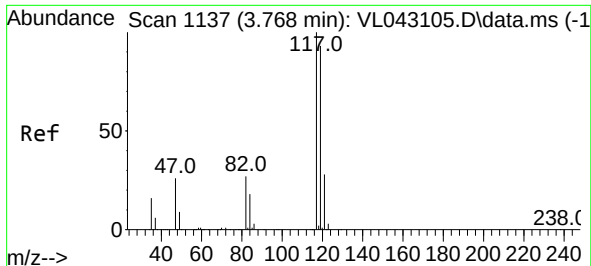
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#34
2-Butanone
Concen: 2.090 ppbv
RT: 2.558 min Scan# 763
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

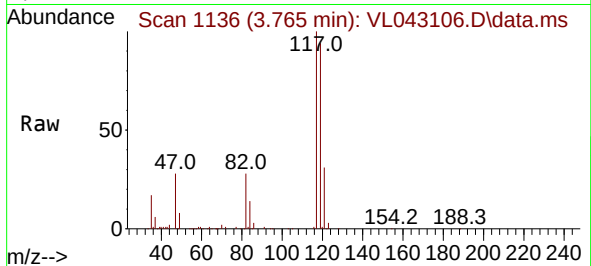
Tgt Ion: 43 Resp: 48458
Ion Ratio Lower Upper
43 100
72 23.3 18.4 27.6





#35
Carbon Tetrachloride
Concen: 2.071 ppbv
RT: 3.765 min Scan# 1136
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

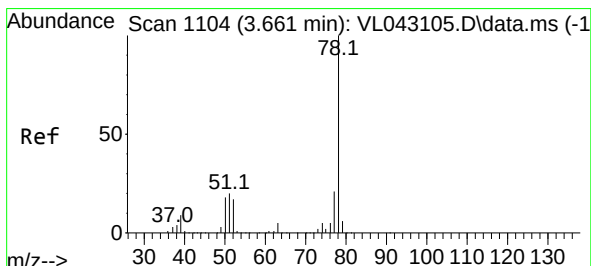
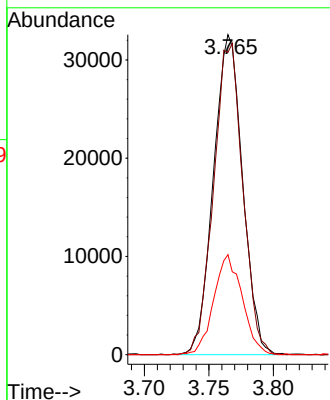
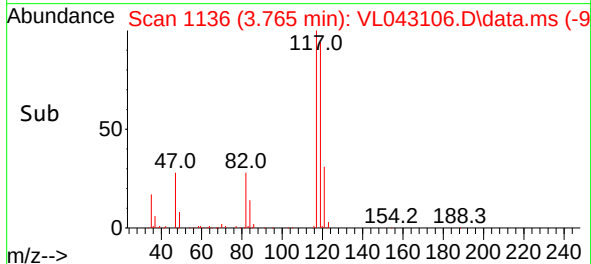
Instrument : MSVOA_L
ClientSampleId : VSTDIC002



Tgt Ion: 117 Resp: 5107
Ion Ratio Lower Upper
117 100
119 94.2 74.1 111.1
121 31.3 22.2 33.2

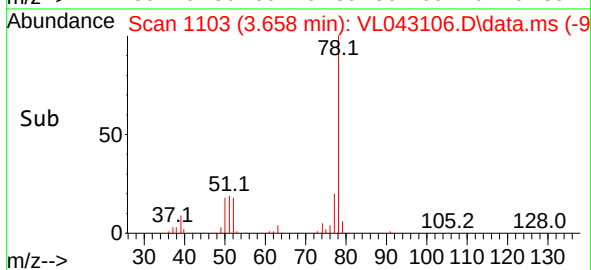
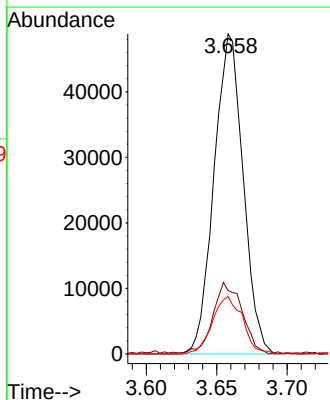
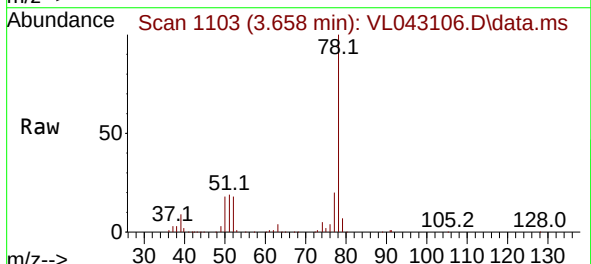
Manual Integrations
APPROVED

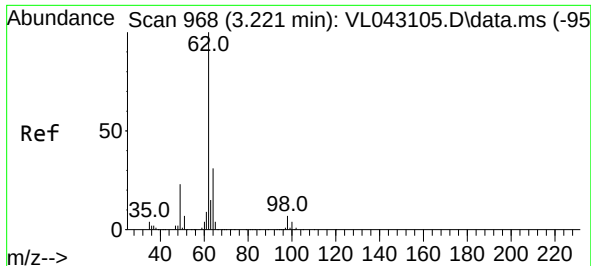
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#36
Benzene
Concen: 2.172 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

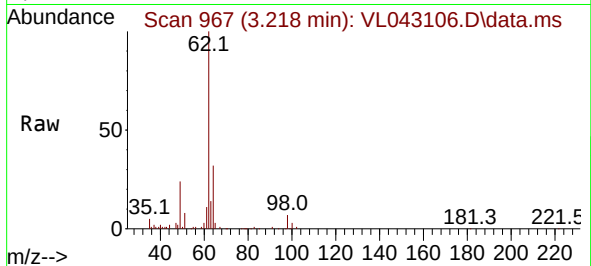
Tgt Ion: 78 Resp: 70156
Ion Ratio Lower Upper
78 100
77 19.5 17.0 25.6
50 18.0 14.6 22.0





#37
1,2-Dichloroethane
Concen: 2.083 ppbv
RT: 3.218 min Scan# 90
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

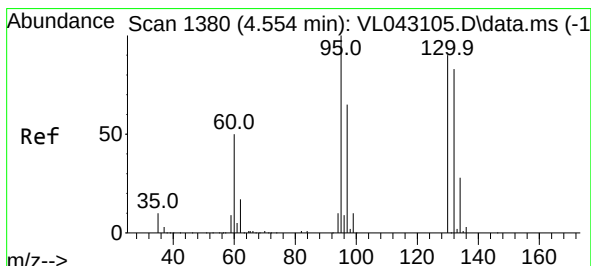
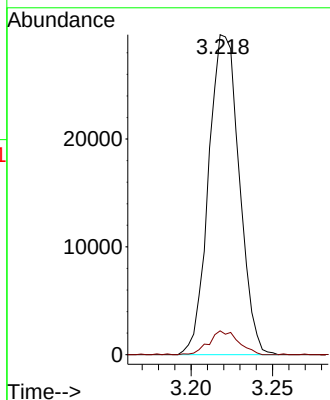
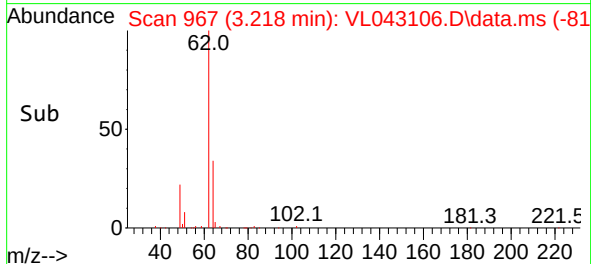
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



Tgt Ion: 62 Resp: 3876
Ion Ratio Lower Upper
62 100
98 7.3 5.8 8.6

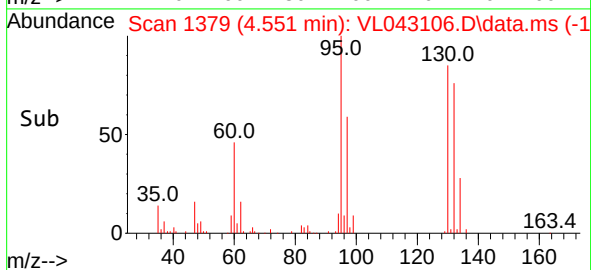
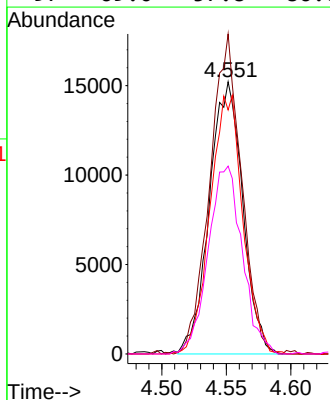
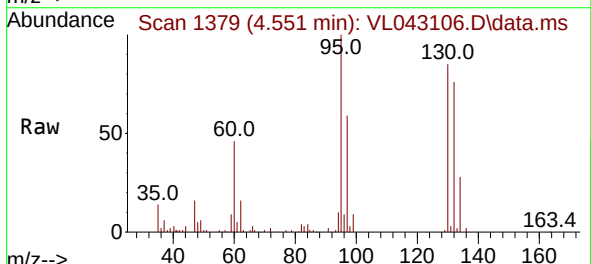
Manual Integrations
APPROVED

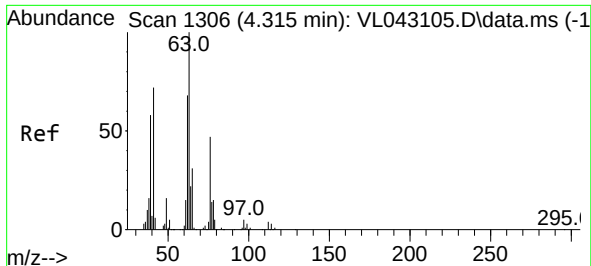
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#38
Trichloroethene
Concen: 2.024 ppbv
RT: 4.551 min Scan# 1379
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion:130 Resp: 27272
Ion Ratio Lower Upper
130 100
95 117.1 88.6 133.0
132 89.0 73.4 110.0
97 69.0 57.8 86.6





#39

1,2-Dichloropropane

Concen: 2.151 ppbv

RT: 4.315 min Scan# 1306

Delta R.T. 0.000 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

Instrument :

MSVOA_L

ClientSampleId :

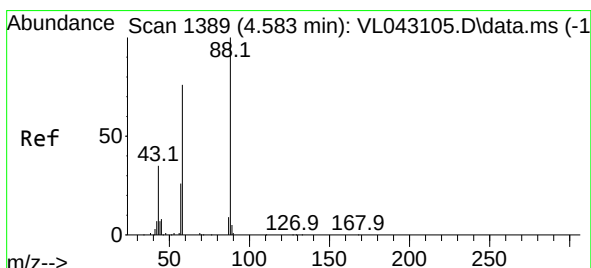
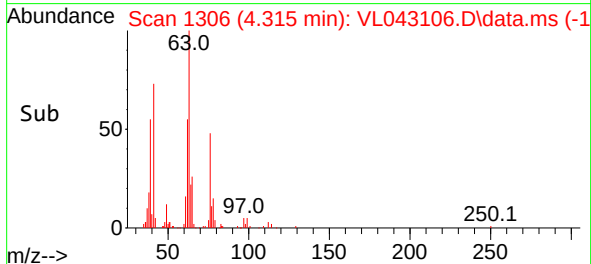
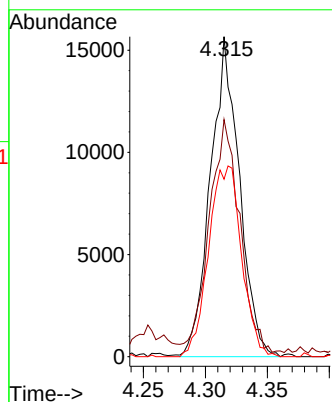
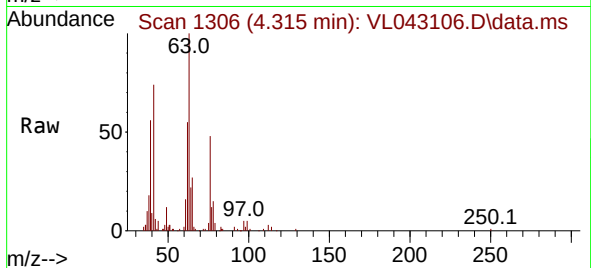
VSTDICC002

Tgt Ion: 63	Resp: 2542
Ion Ratio	Lower Upper
63 100	
41 72.3	58.0 87.0
62 55.5	54.7 82.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#40

1,4-Dioxane

Concen: 2.101 ppbv m

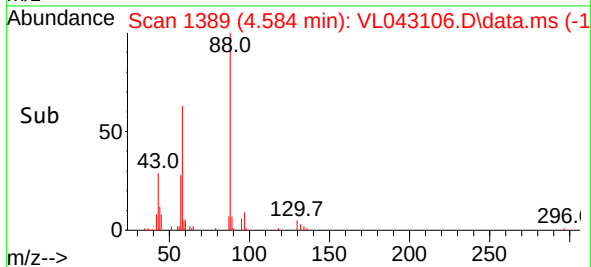
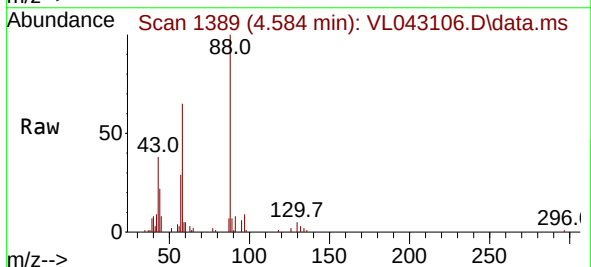
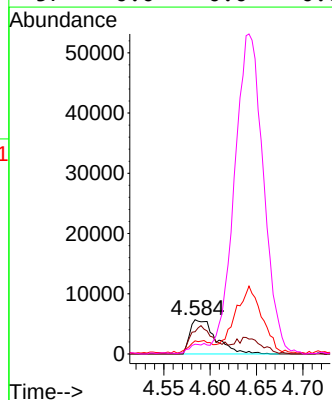
RT: 4.584 min Scan# 1389

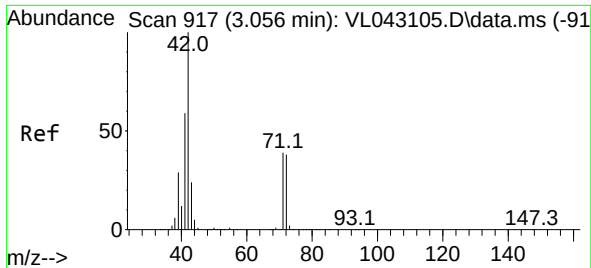
Delta R.T. 0.000 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

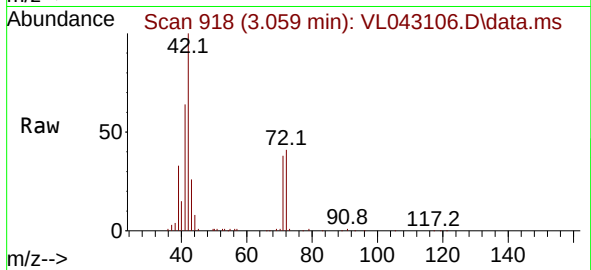
Tgt	Ion: 88	Resp:	11102
Ion	Ratio	Lower	Upper
88	100		
58	0.0	61.1	91.7#
43	0.0	24.0	36.0#
57	0.0	0.0	0.0





#41
Tetrahydrofuran
Concen: 2.037 ppbv
RT: 3.059 min Scan# 917
Delta R.T. 0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

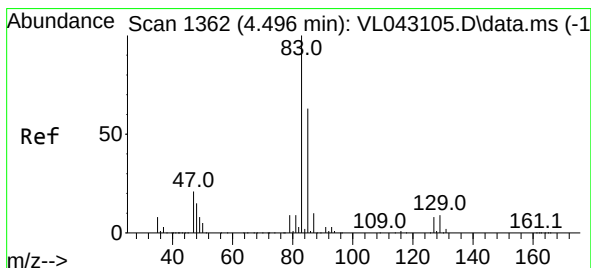
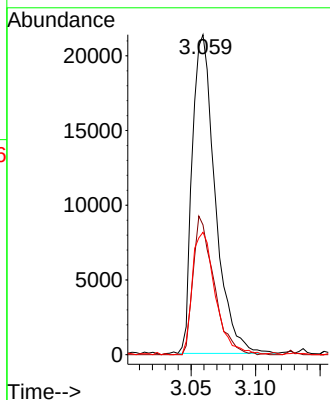
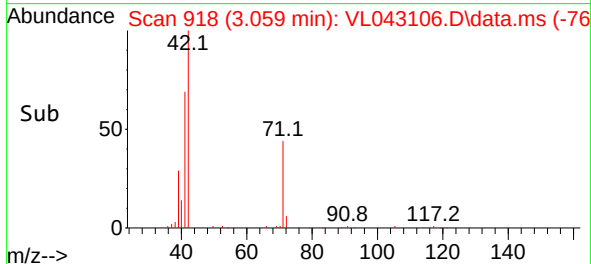
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



Tgt Ion: 42 Resp: 26362
Ion Ratio Lower Upper
42 100
72 39.7 31.3 46.9
71 39.4 30.4 45.6

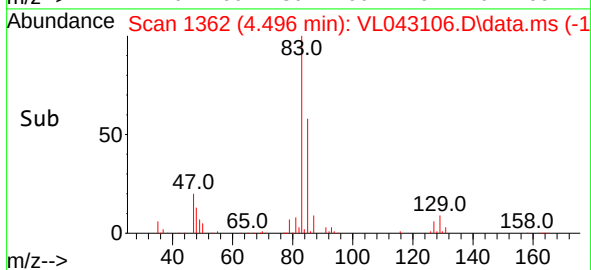
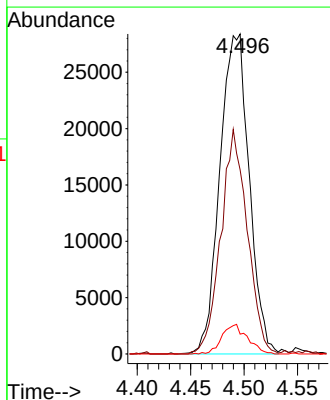
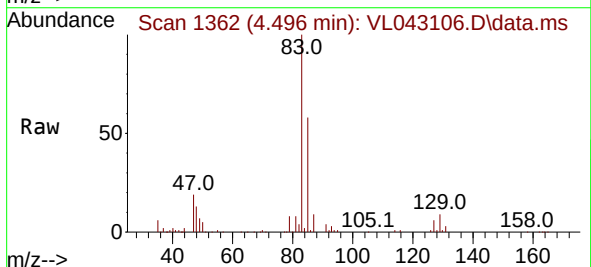
Manual Integrations
APPROVED

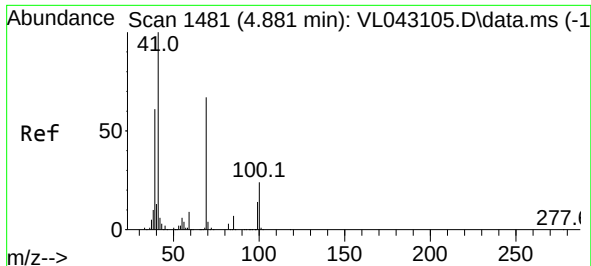
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#42
Bromodichloromethane
Concen: 2.106 ppbv
RT: 4.496 min Scan# 1362
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 83 Resp: 54224
Ion Ratio Lower Upper
83 100
85 57.6 50.6 75.8
127 6.2 6.3 9.5#





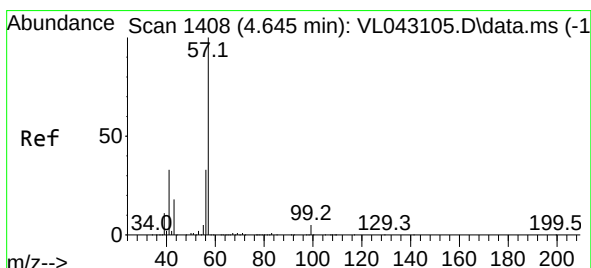
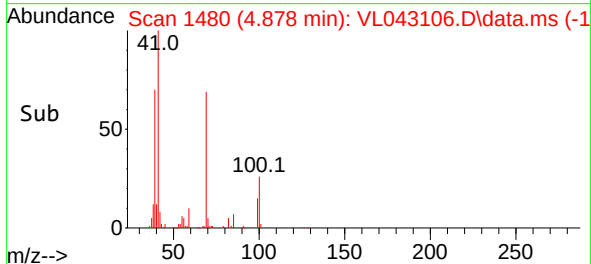
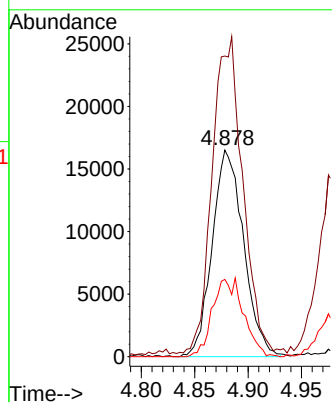
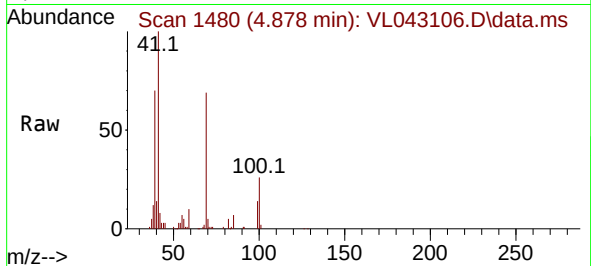
#43
Methyl Methacrylate
Concen: 2.051 ppbv
RT: 4.878 min Scan# 1480
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion: 69 Resp: 3380
Ion Ratio Lower Upper
69 100
41 151.4 120.5 180.7
100 37.3 29.0 43.4

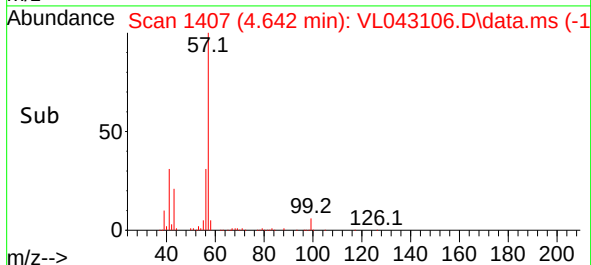
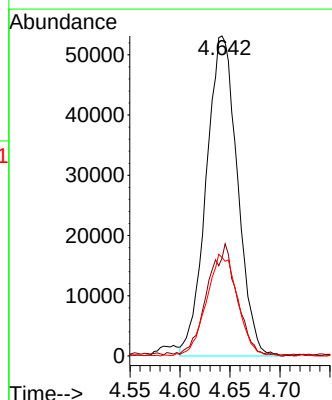
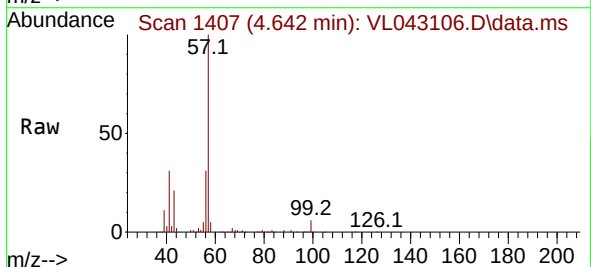
Manual Integrations
APPROVED

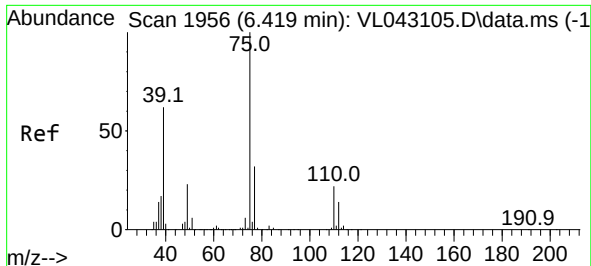
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#44
2,2,4-Trimethylpentane
Concen: 2.137 ppbv
RT: 4.642 min Scan# 1407
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

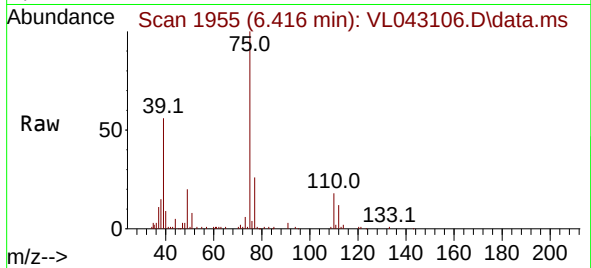
Tgt Ion: 57 Resp: 115417
Ion Ratio Lower Upper
57 100
41 34.0 26.3 39.5
56 31.9 25.9 38.9





#45
 t-1,3-Dichloropropene
 Concen: 2.109 ppbv
 RT: 6.416 min Scan# 1956
 Delta R.T. -0.003 min
 Lab File: VL043106.D
 Acq: 14 Oct 2025 11:27

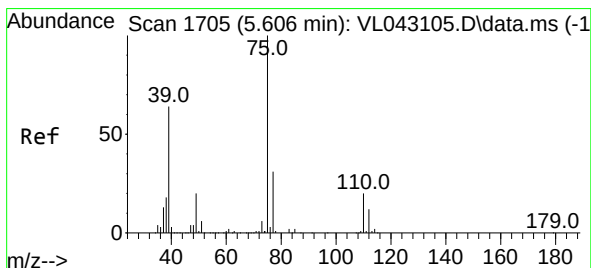
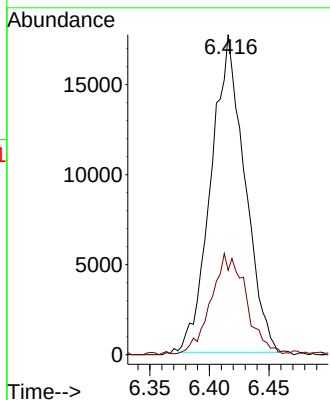
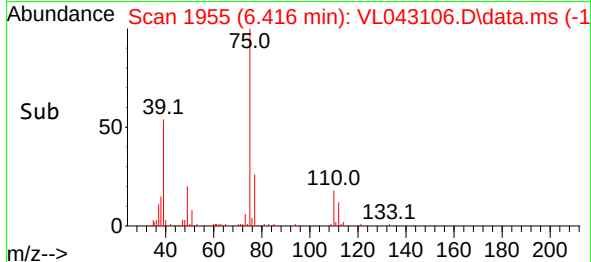
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002



Tgt Ion: 75 Resp: 34728
 Ion Ratio Lower Upper
 75 100
 77 26.3 25.4 38.2

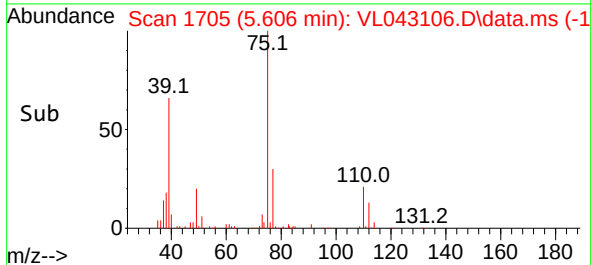
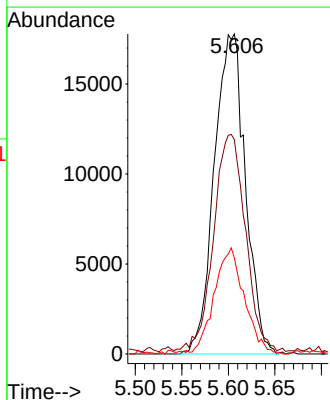
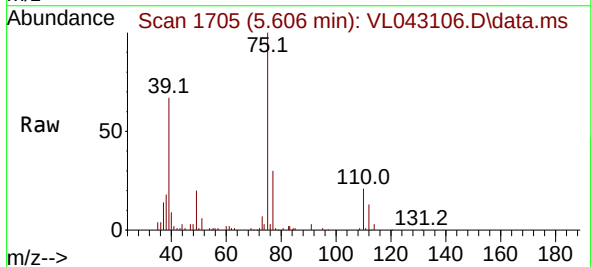
Manual Integrations
 APPROVED

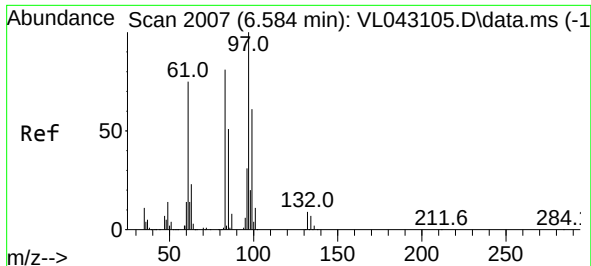
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025



#46
 cis-1,3-Dichloropropene
 Concen: 2.105 ppbv m
 RT: 5.606 min Scan# 1705
 Delta R.T. 0.000 min
 Lab File: VL043106.D
 Acq: 14 Oct 2025 11:27

Tgt Ion: 75 Resp: 41365
 Ion Ratio Lower Upper
 75 100
 39 66.9 51.0 76.6
 77 30.0 25.0 37.4





#47

1,1,2-Trichloroethane

Concen: 2.067 ppbv

RT: 6.584 min Scan# 2007

Delta R.T. 0.000 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

Tgt Ion: 97 Resp: 2635

Ion Ratio Lower Upper

97 100

83 86.2 64.6 96.8

85 58.2 40.6 60.8

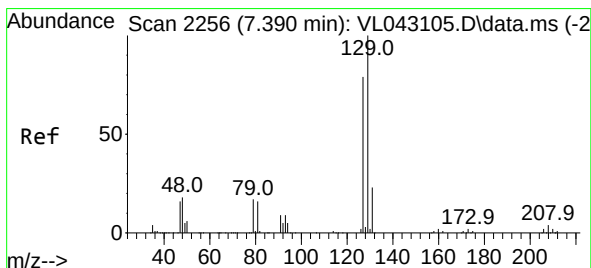
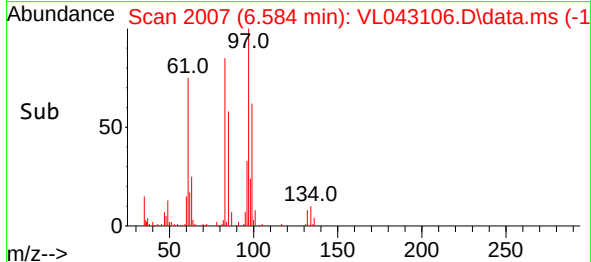
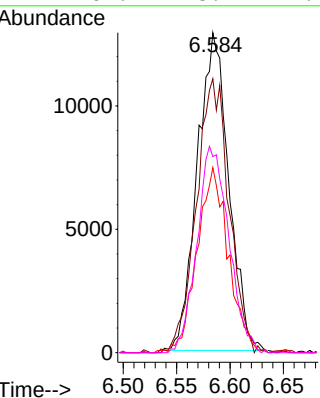
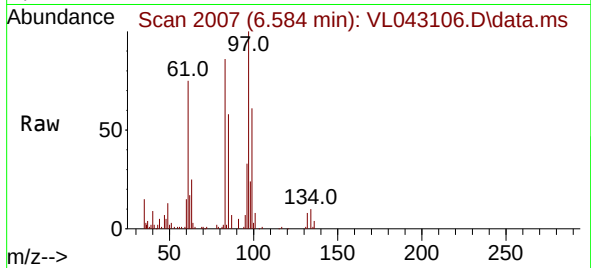
99 61.7 48.4 72.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#48

Dibromochloromethane

Concen: 2.146 ppbv

RT: 7.390 min Scan# 2256

Delta R.T. 0.000 min

Lab File: VL043106.D

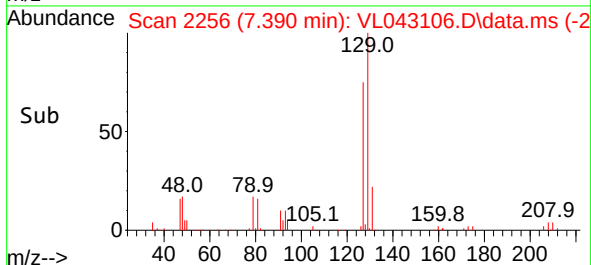
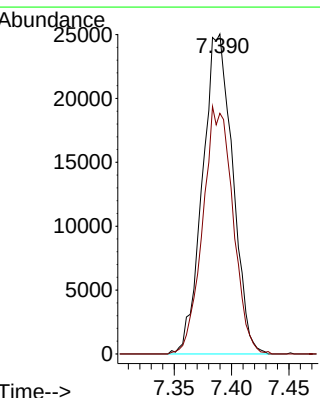
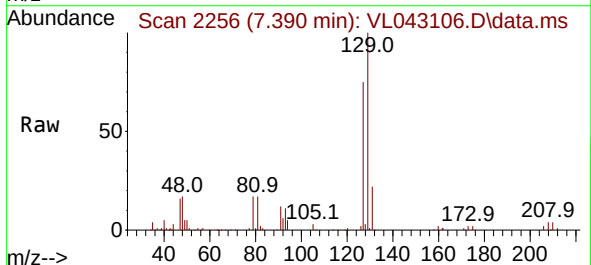
Acq: 14 Oct 2025 11:27

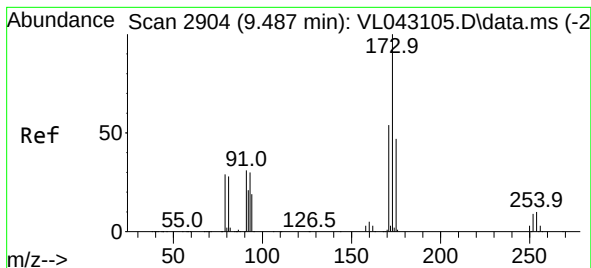
Tgt Ion:129 Resp: 45751

Ion Ratio Lower Upper

129 100

127 77.3 39.3 117.9





#49

Bromoform

Concen: 2.153 ppbv

RT: 9.484 min Scan# 2904

Delta R.T. -0.003 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

Instrument :

MSVOA_L

ClientSampleId :

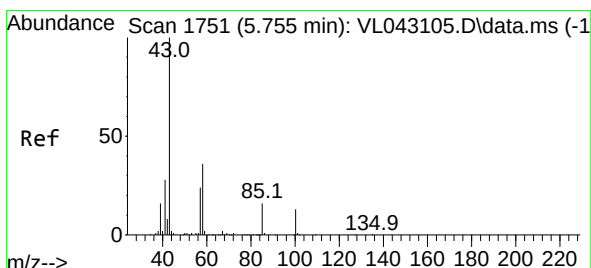
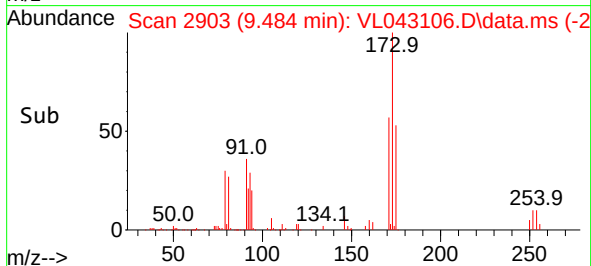
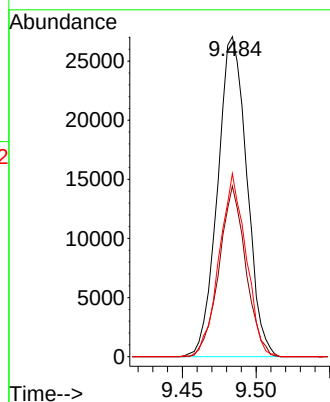
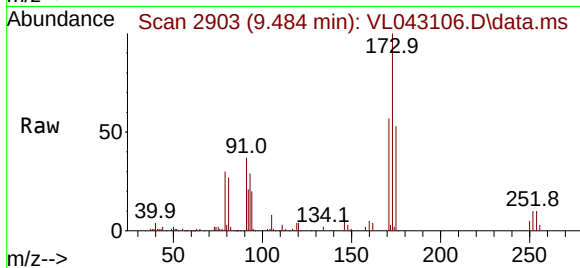
VSTDICC002

Tgt Ion:	173	Resp:	37314
Ion Ratio	Lower	Upper	
173	100		
175	48.7	38.8	58.2
171	52.7	41.7	62.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#50

4-Methyl-2-Pentanone

Concen: 2.089 ppbv

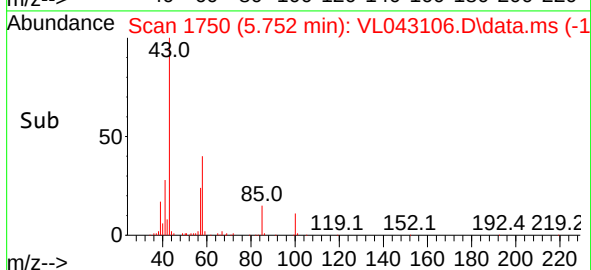
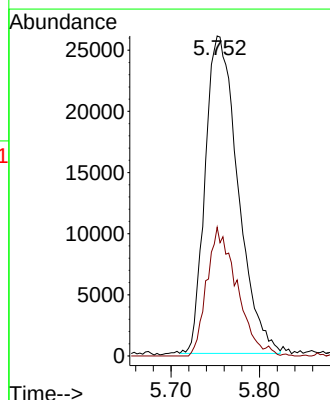
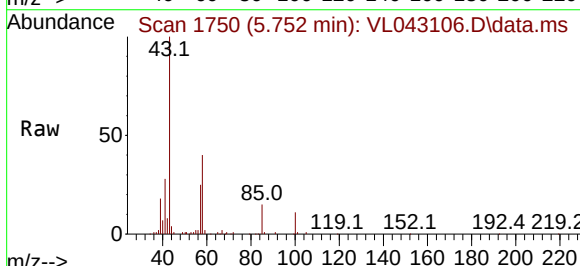
RT: 5.752 min Scan# 1750

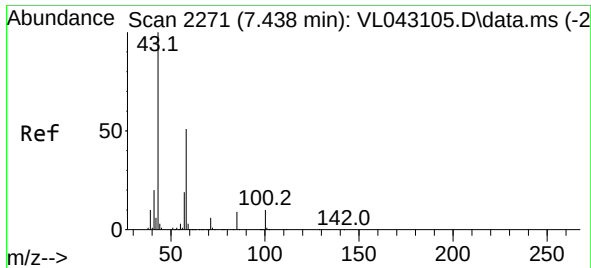
Delta R.T. -0.003 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

Tgt Ion:	43	Resp:	66811
Ion Ratio	Lower	Upper	
43	100		
58	37.2	29.1	43.7





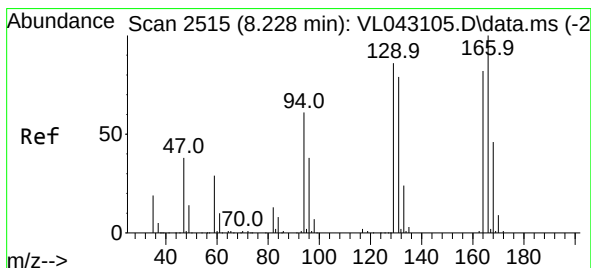
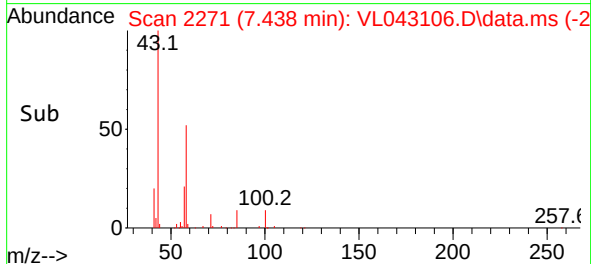
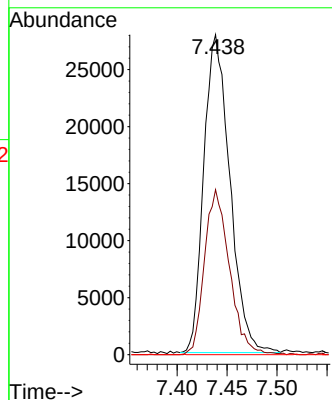
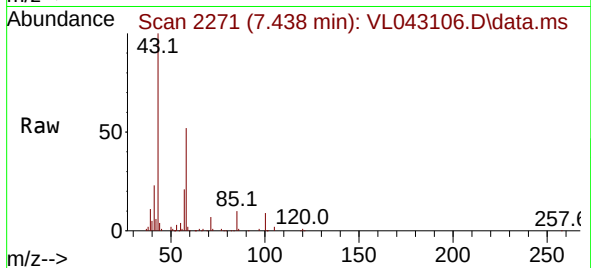
#51
2-Hexanone
Concen: 2.122 ppbv
RT: 7.438 min Scan# 2271
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Instrument : MSVOA_L
ClientSampleId : VSTDICC002

Tgt Ion: 43 Resp: 5064
Ion Ratio Lower Upper
43 100
58 49.8 40.4 60.6
98 0.0 0.1 0.1

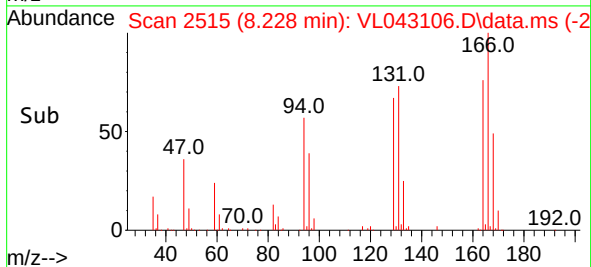
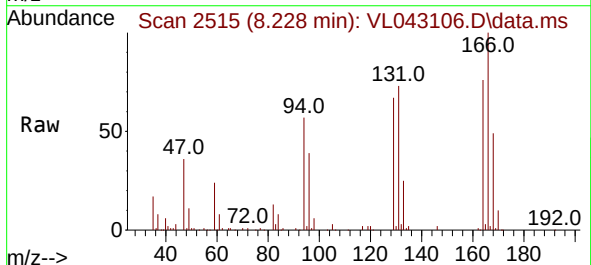
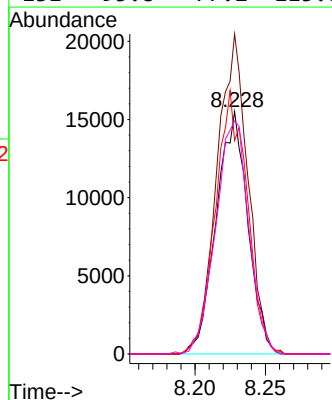
Manual Integrations
APPROVED

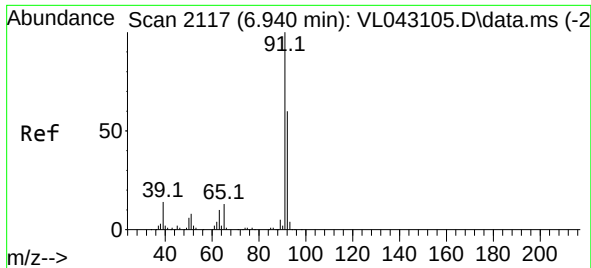
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#52
Tetrachloroethene
Concen: 2.076 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

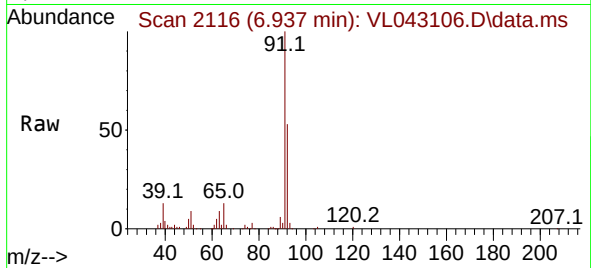
Tgt Ion:164 Resp: 24183
Ion Ratio Lower Upper
164 100
166 132.0 97.6 146.4
129 88.0 84.5 126.7
131 95.8 77.2 115.8





#53
Toluene
Concen: 2.104 ppbv
RT: 6.937 min Scan# 2117
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

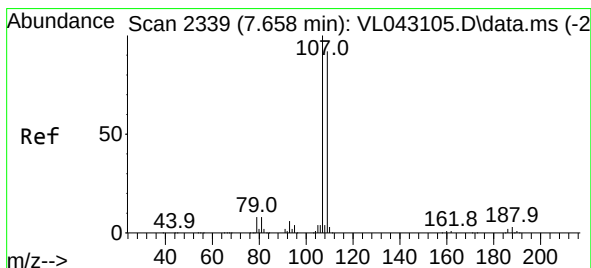
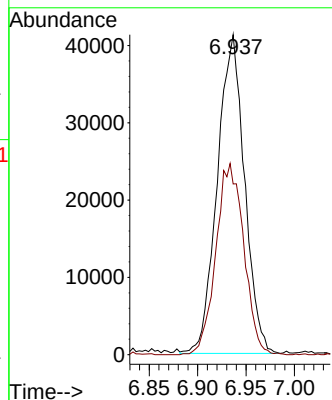
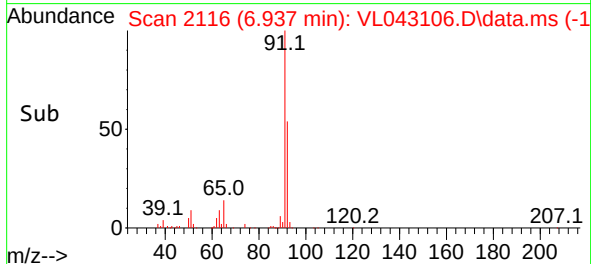
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



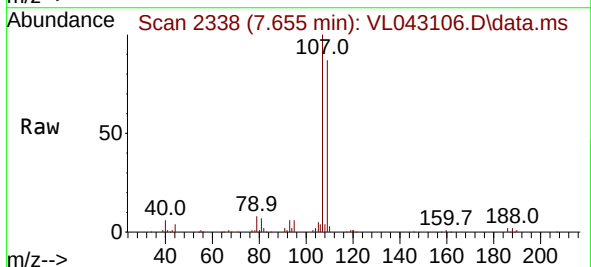
Tgt Ion: 91 Resp: 80660
Ion Ratio Lower Upper
91 100
92 61.5 48.8 73.2

Manual Integrations
APPROVED

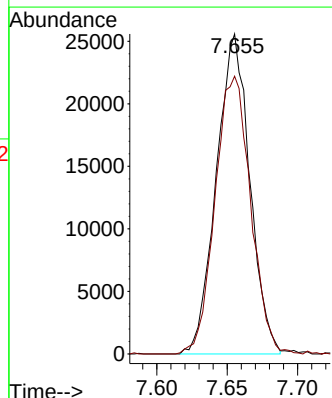
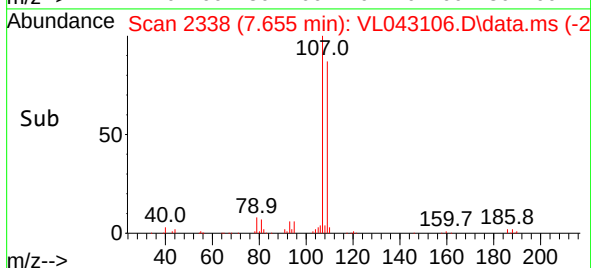
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

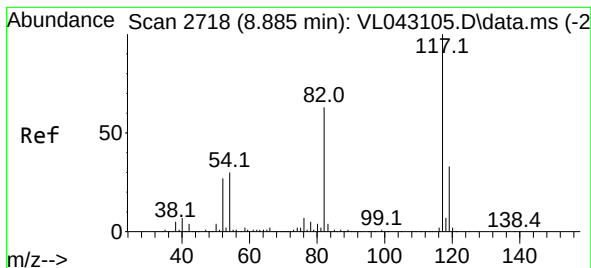


#54
1,2-Dibromoethane
Concen: 2.103 ppbv
RT: 7.655 min Scan# 2338
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27



Tgt Ion:107 Resp: 42320
Ion Ratio Lower Upper
107 100
109 86.5 73.4 110.2





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.882 min Scan# 2718

Delta R.T. -0.003 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

Instrument :

MSVOA_L

ClientSampleId :

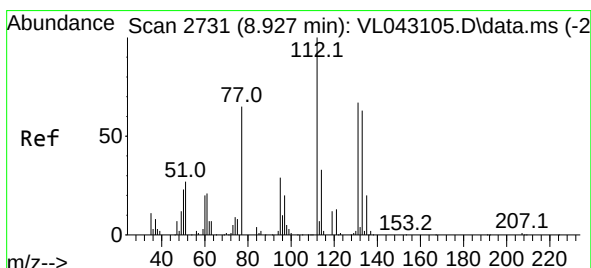
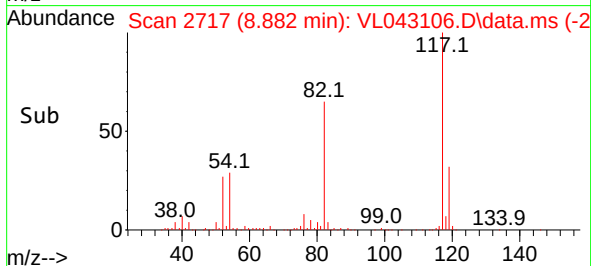
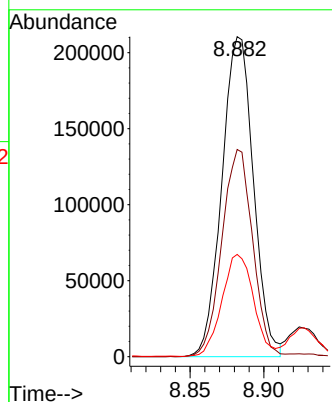
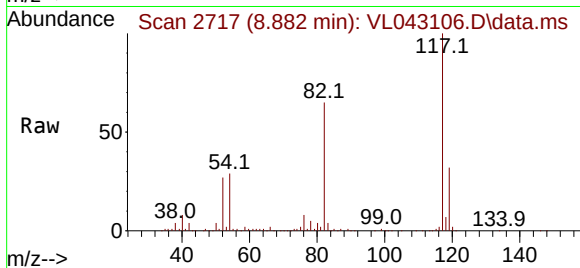
VSTDIC002

Tgt Ion:	117	Resp:	31360
Ion Ratio	Lower	Upper	
117	100		
82	63.9	53.8	80.8
119	32.3	25.4	38.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#56

1,1,1,2-Tetrachloroethane

Concen: 2.110 ppbv

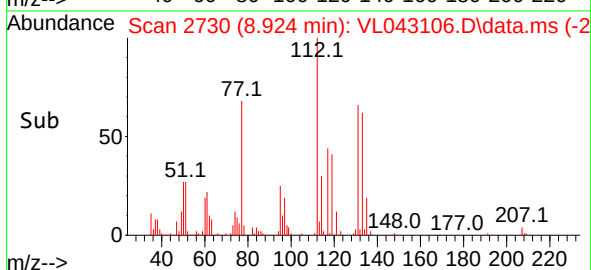
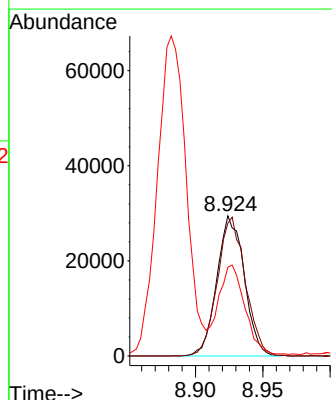
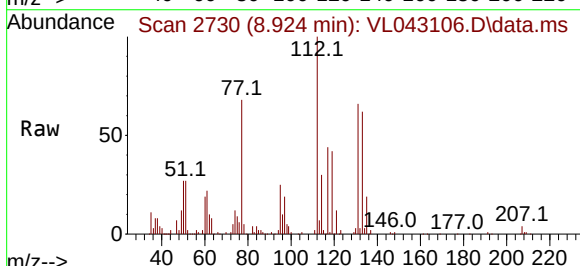
RT: 8.924 min Scan# 2730

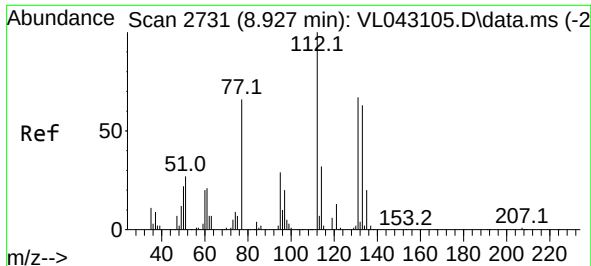
Delta R.T. -0.003 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

Tgt Ion:	131	Resp:	41712
Ion Ratio	Lower	Upper	
131	100		
133	101.2	75.7	113.5
119	59.2	50.6	76.0





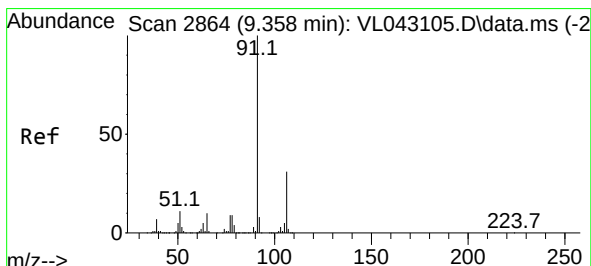
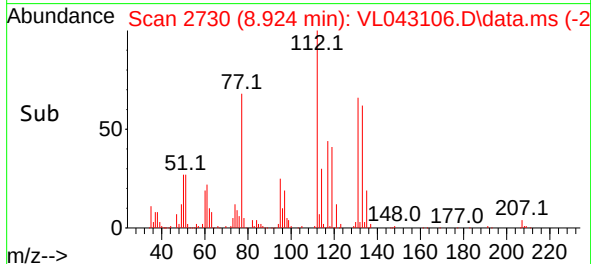
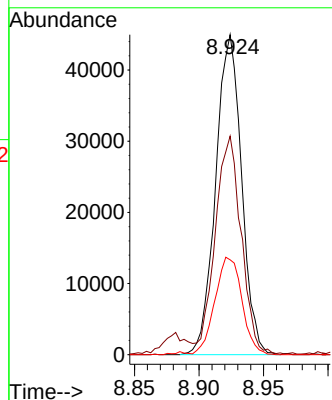
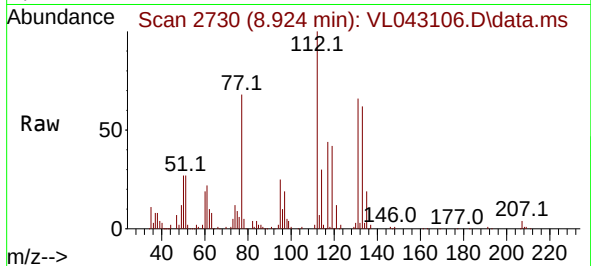
#57
Chlorobenzene
Concen: 2.138 ppbv
RT: 8.924 min Scan# 2731
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion:112 Resp: 62714
Ion Ratio Lower Upper
112 100
77 67.8 53.3 79.9
114 29.6 29.3 35.8

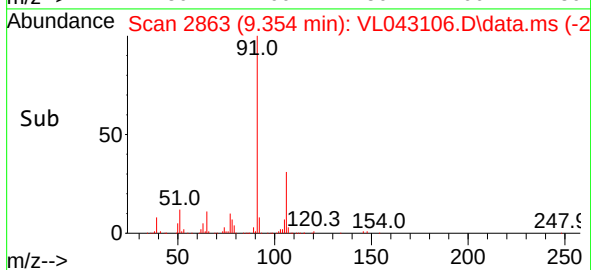
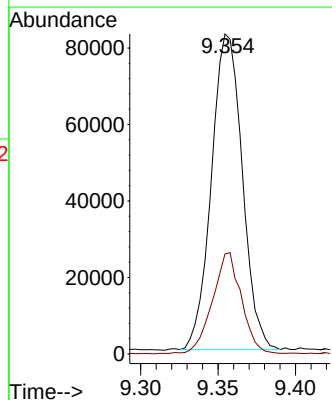
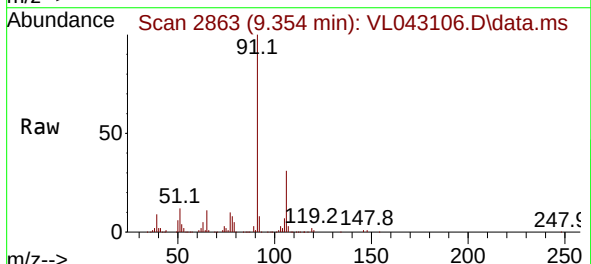
Manual Integrations
APPROVED

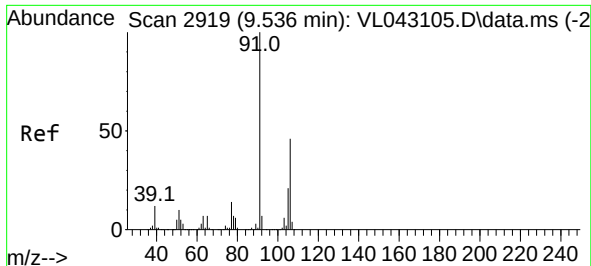
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#58
Ethyl Benzene
Concen: 2.109 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 91 Resp: 114403
Ion Ratio Lower Upper
91 100
106 31.5 24.8 37.2





#59

m/p-Xylene

Concen: 4.311 ppbv m

RT: 9.532 min Scan# 2919

Delta R.T. -0.003 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

Tgt Ion: 91 Resp: 185190

Ion Ratio Lower Upper

91 100

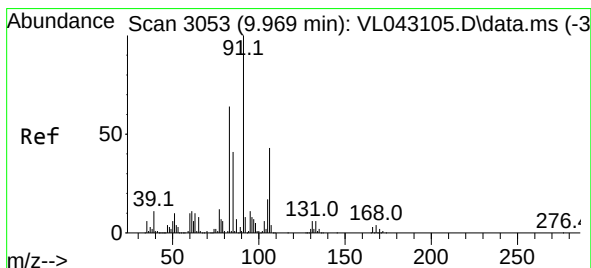
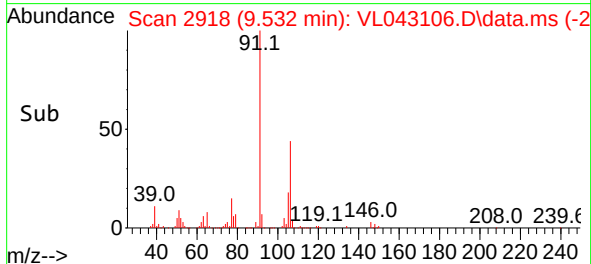
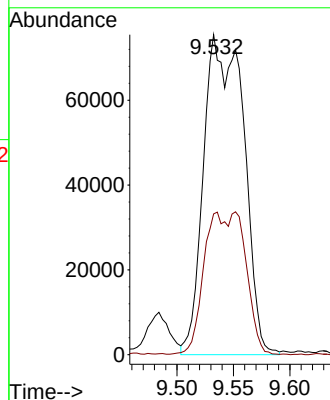
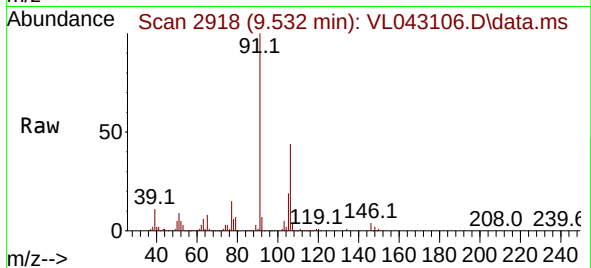
106 0.0 38.0 57.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#60

o-Xylene

Concen: 2.152 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. -0.006 min

Lab File: VL043106.D

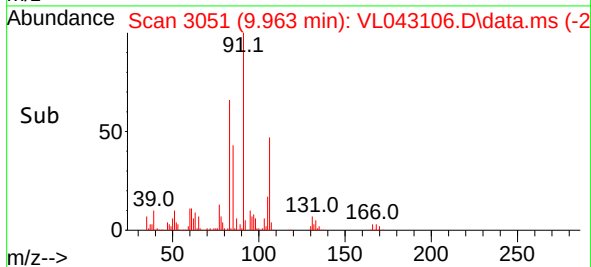
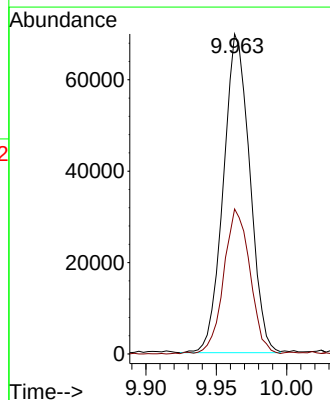
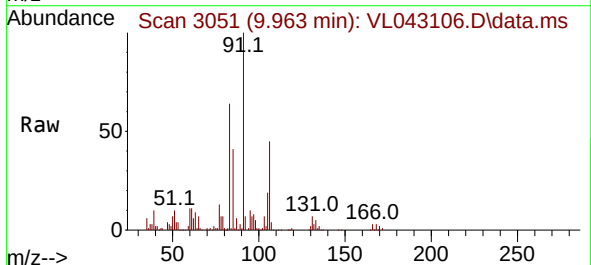
Acq: 14 Oct 2025 11:27

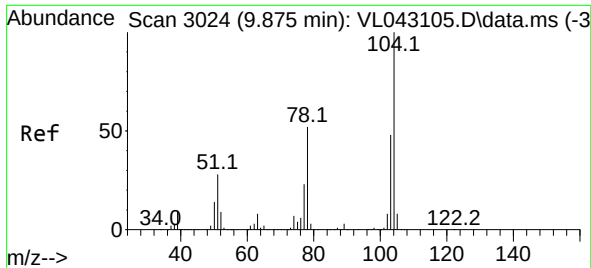
Tgt Ion: 91 Resp: 91223

Ion Ratio Lower Upper

91 100

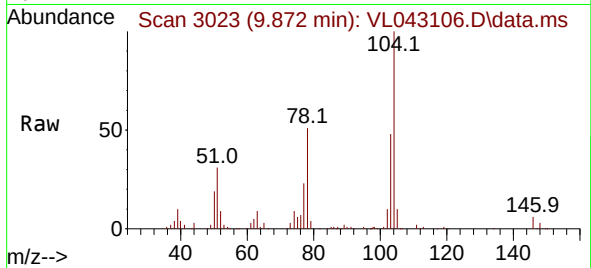
106 45.2 21.9 65.8





#61
Styrene
Concen: 2.175 ppbv
RT: 9.872 min Scan# 3024
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

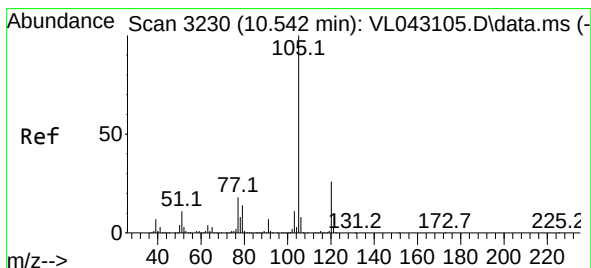
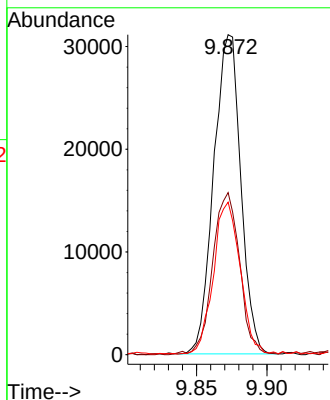
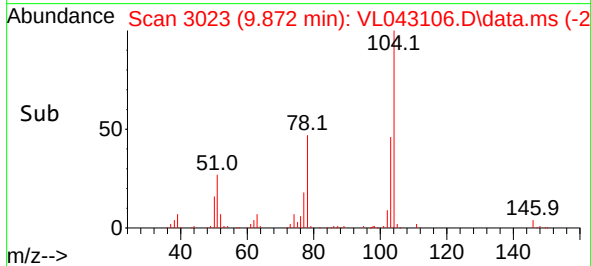
Instrument : MSVOA_L
ClientSampleId : VSTDIC002



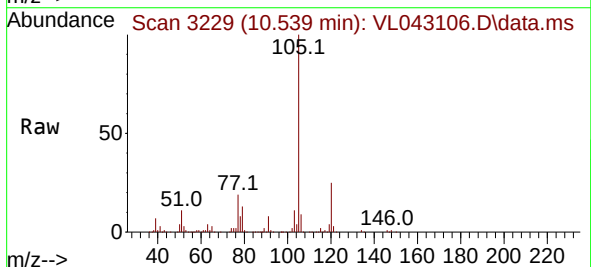
Tgt Ion:104 Resp: 4163
Ion Ratio Lower Upper
104 100
78 51.1 40.2 60.2
103 47.4 36.9 55.3

Manual Integrations
APPROVED

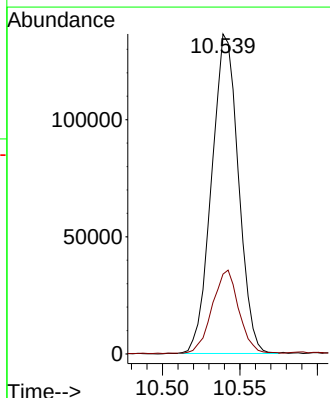
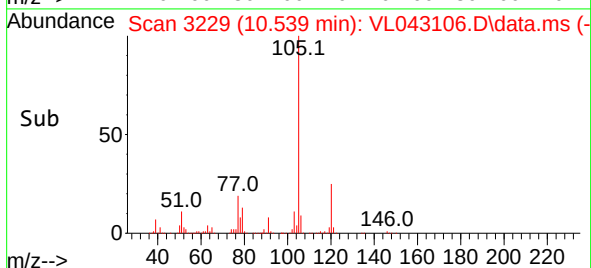
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

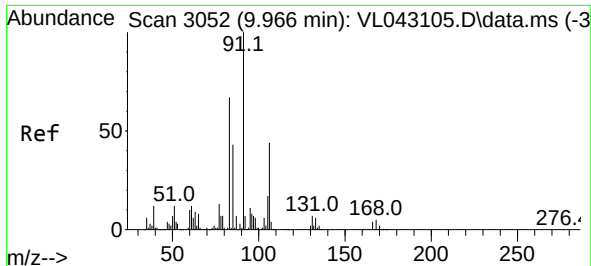


#62
Isopropylbenzene
Concen: 2.142 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27



Tgt Ion:105 Resp: 164073
Ion Ratio Lower Upper
105 100
120 26.1 20.2 30.4





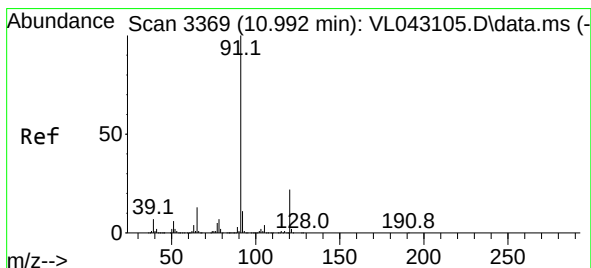
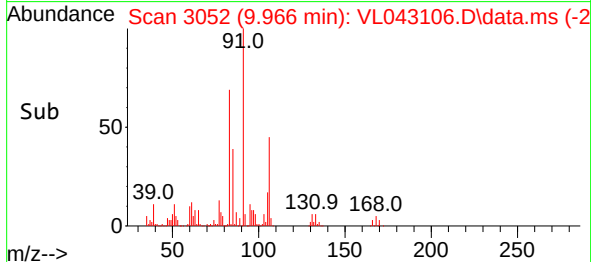
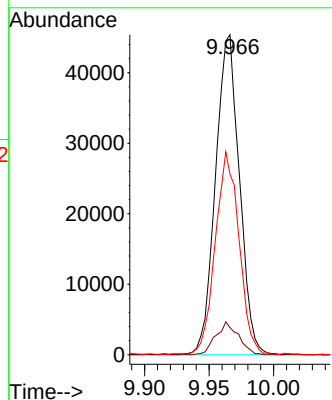
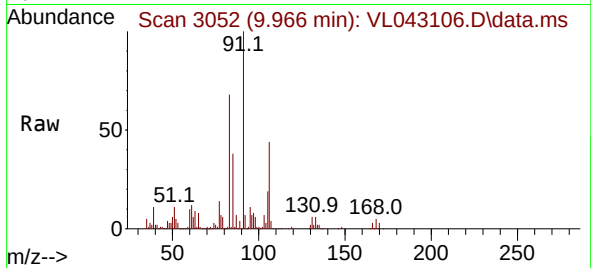
#63
1,1,2,2-Tetrachloroethane
Concen: 2.061 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion: 83 Resp: 58510
Ion Ratio Lower Upper
83 100
131 9.6 4.8 14.3
85 63.2 32.0 96.0

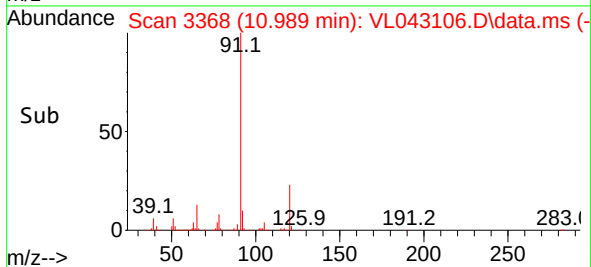
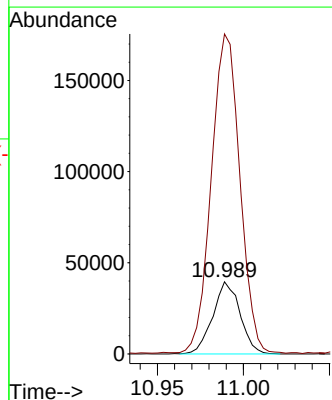
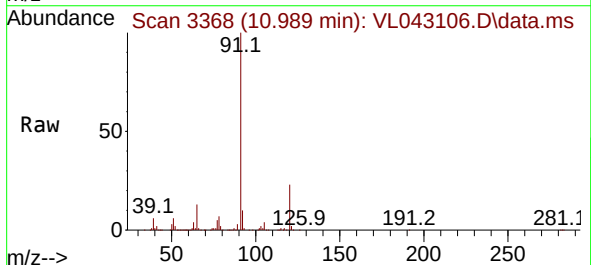
Manual Integrations
APPROVED

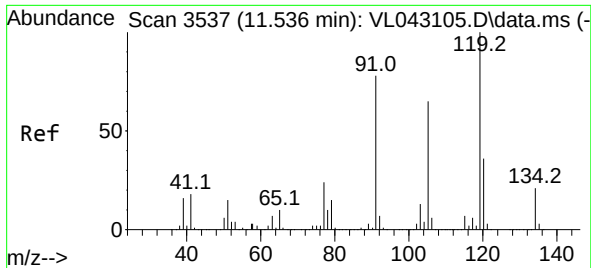
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#64
n-propylbenzene
Concen: 2.152 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

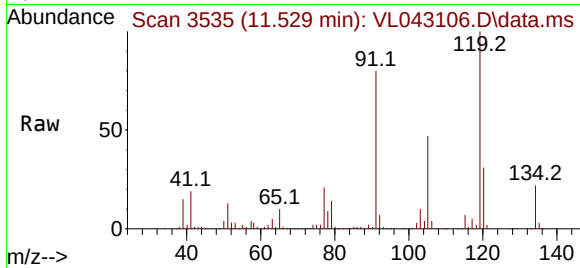
Tgt Ion:120 Resp: 43648
Ion Ratio Lower Upper
120 100
91 462.4 361.6 542.4





#65
tert-Butylbenzene
Concen: 2.192 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. -0.006 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

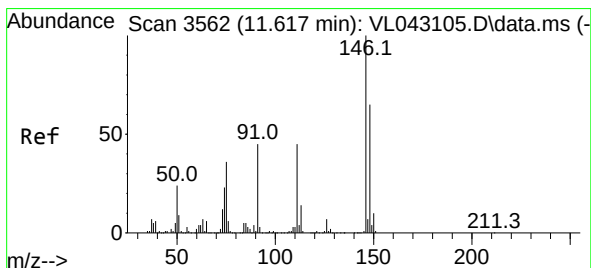
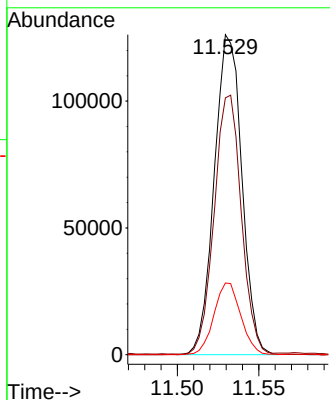
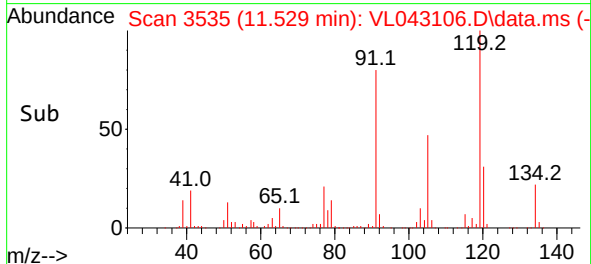
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



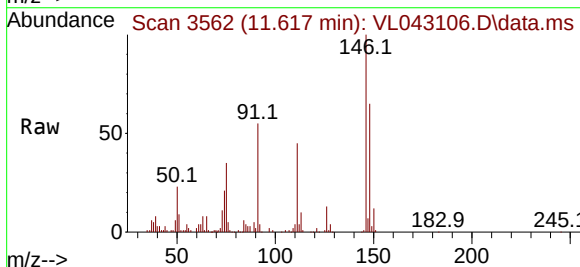
Tgt Ion: 119 Resp: 148300
Ion Ratio Lower Upper
119 100
91 80.2 63.4 95.0
134 22.0 17.3 25.9

Manual Integrations
APPROVED

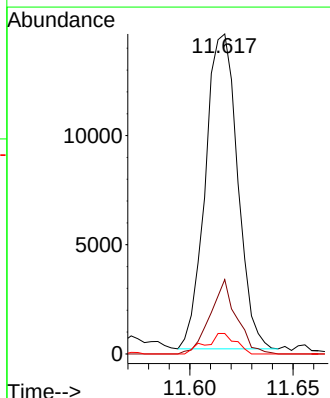
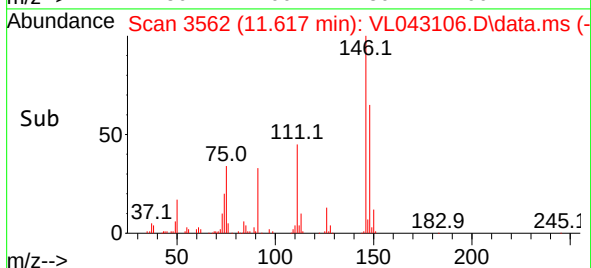
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

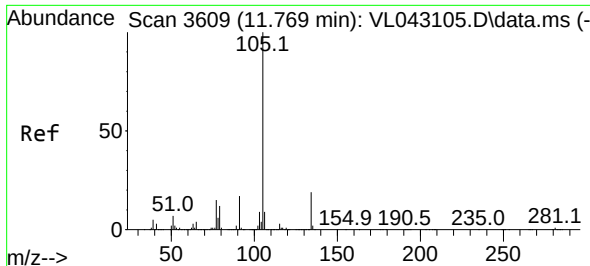


#66
Benzyl Chloride
Concen: 2.072 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27



Tgt Ion: 91 Resp: 15656
Ion Ratio Lower Upper
91 100
126 19.2 14.6 22.0
128 5.9 4.6 6.8





#67

sec-Butylbenzene

Concen: 2.193 ppbv

RT: 11.769 min Scan# 3105

Delta R.T. 0.000 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion:105 Resp: 210529

Ion Ratio Lower Upper

105 100

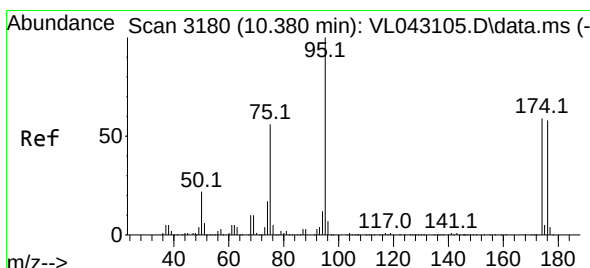
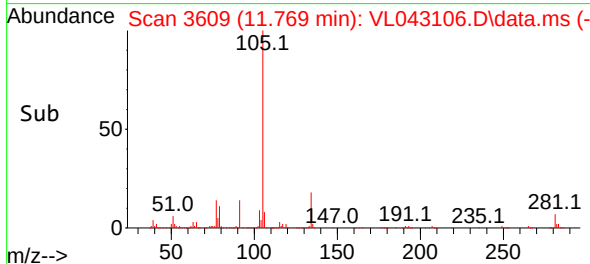
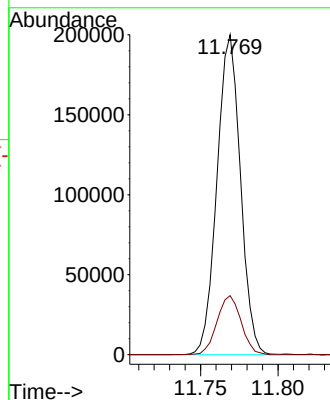
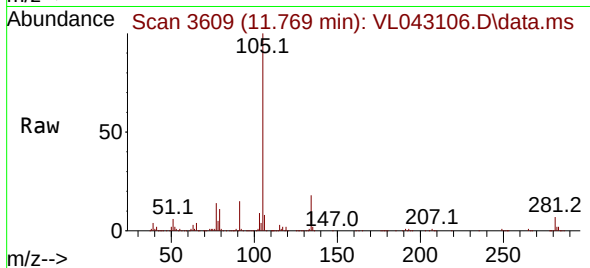
134 18.9 15.5 23.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#68

1-Bromo-4-Fluorobenzene

Concen: 10.024 ppbv

RT: 10.377 min Scan# 3179

Delta R.T. -0.003 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

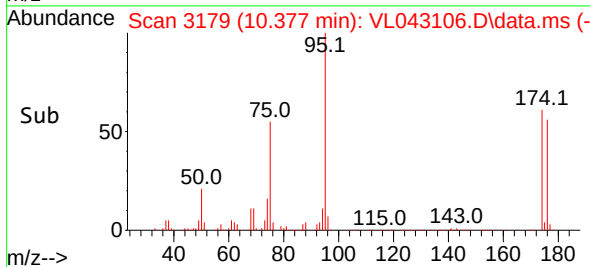
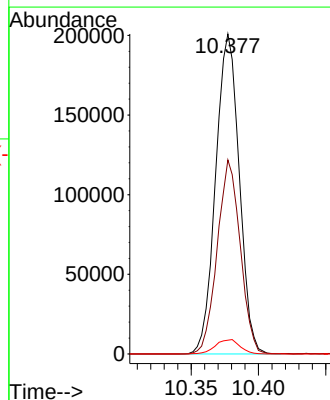
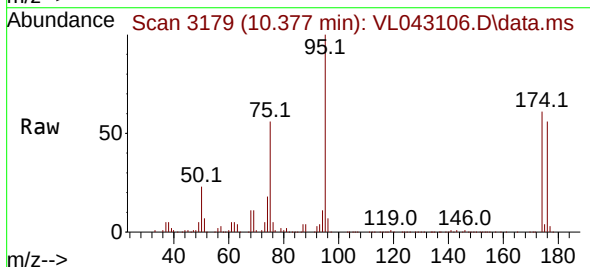
Tgt Ion: 95 Resp: 244329

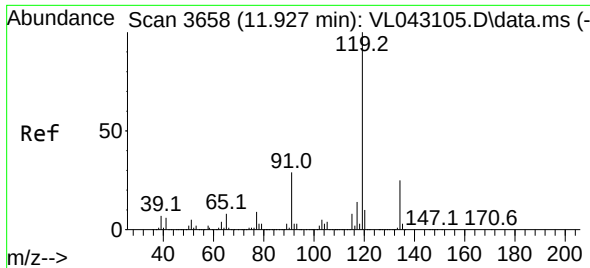
Ion Ratio Lower Upper

95 100

174 59.2 48.3 72.5

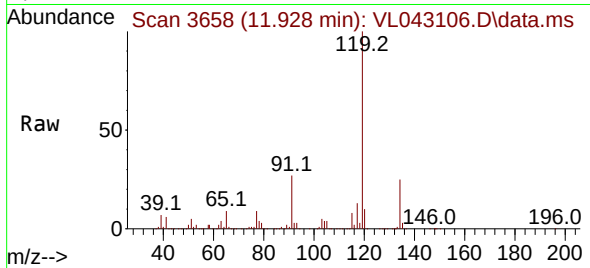
175 4.7 3.8 5.8





#69
p-Isopropyltoluene
Concen: 2.207 ppbv
RT: 11.928 min Scan# 3658
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

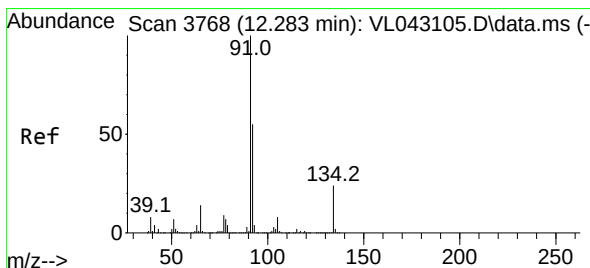
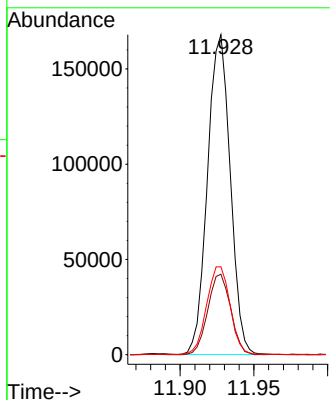
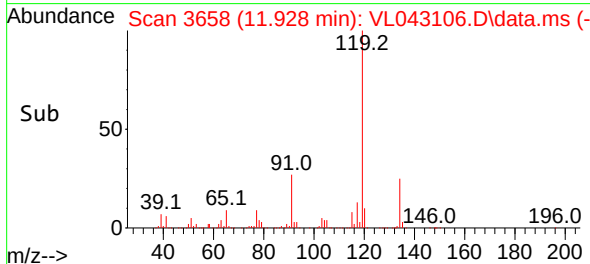
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



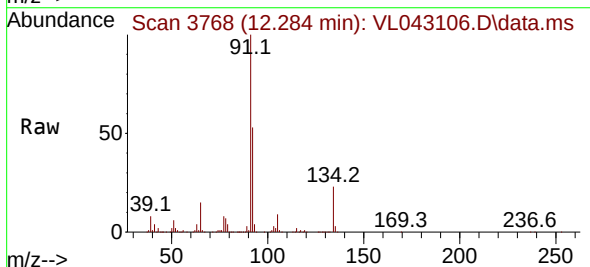
Tgt Ion:119 Resp: 180060
Ion Ratio Lower Upper
119 100
134 25.4 20.3 30.5
91 29.0 22.6 33.8

Manual Integrations
APPROVED

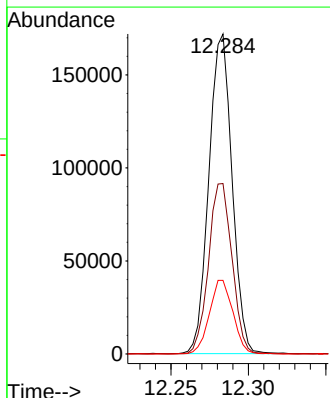
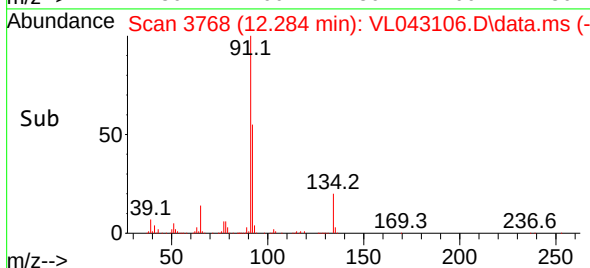
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

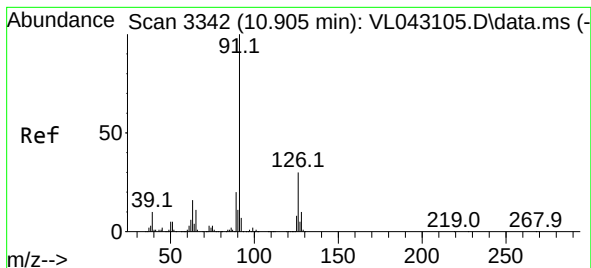


#70
n-Butylbenzene
Concen: 2.222 ppbv
RT: 12.284 min Scan# 3768
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27



Tgt Ion: 91 Resp: 178676
Ion Ratio Lower Upper
91 100
92 54.2 44.5 66.7
134 23.4 19.3 28.9





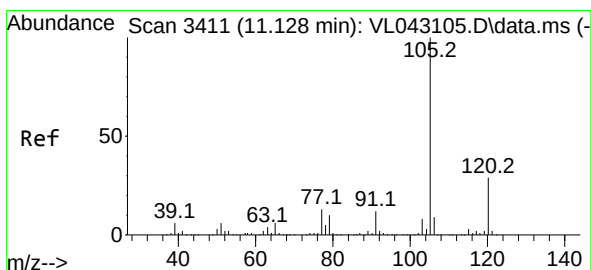
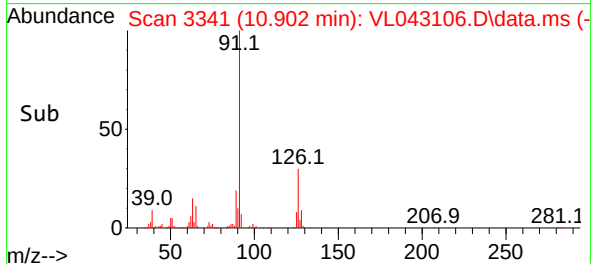
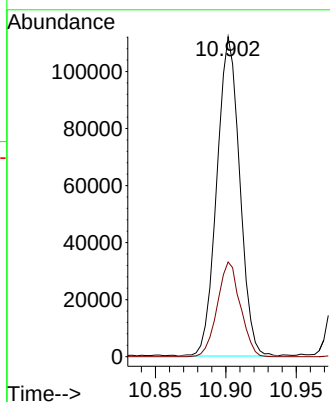
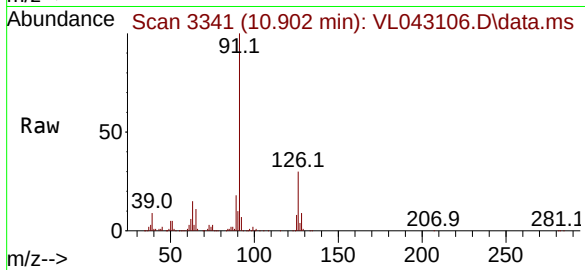
#71
2-Chlorotoluene
Concen: 2.166 ppbv
RT: 10.902 min Scan# 31
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 91 Resp: 12655
Ion Ratio Lower Upper
91 100
126 29.7 12.0 48.0

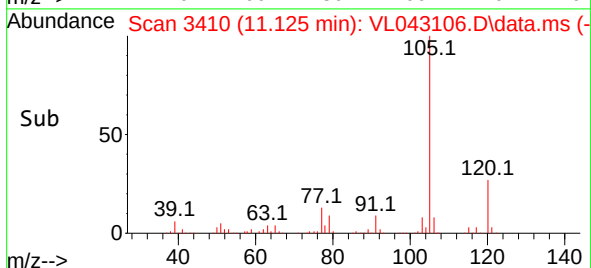
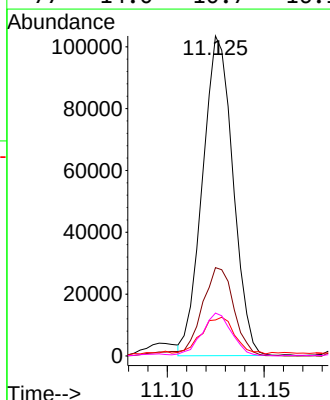
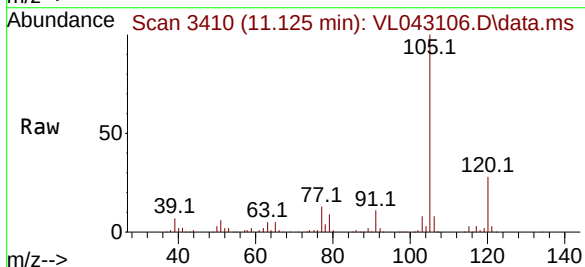
Manual Integrations
APPROVED

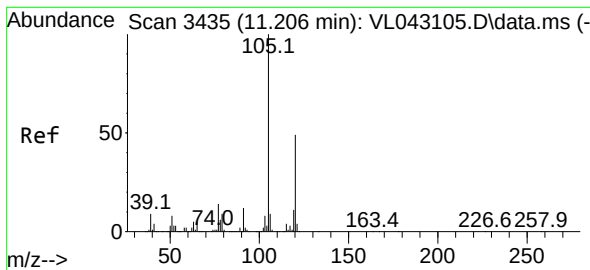
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#72
4-Ethyltoluene
Concen: 2.172 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion:105 Resp: 113233
Ion Ratio Lower Upper
105 100
120 29.8 24.2 36.4
91 14.8 10.0 15.0
77 14.0 10.7 16.1





#73

1,3,5-Trimethylbenzene

Concen: 2.155 ppbv

RT: 11.206 min Scan# 3435

Delta R.T. 0.000 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

Tgt Ion:105 Resp: 92650

Ion Ratio Lower Upper

105 100

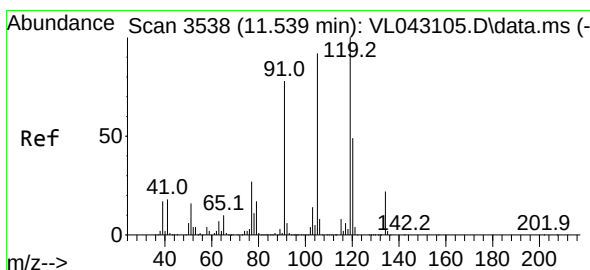
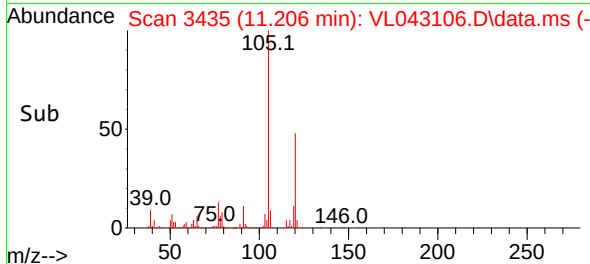
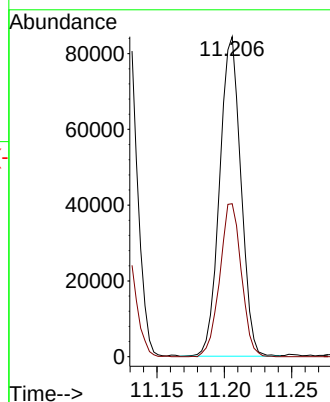
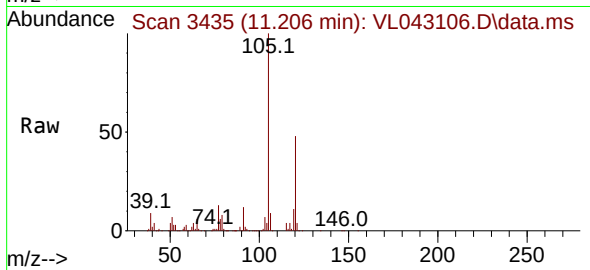
120 47.9 39.0 58.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#74

1,2,4-Trimethylbenzene

Concen: 2.169 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. -0.003 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

Tgt Ion:105 Resp: 104352

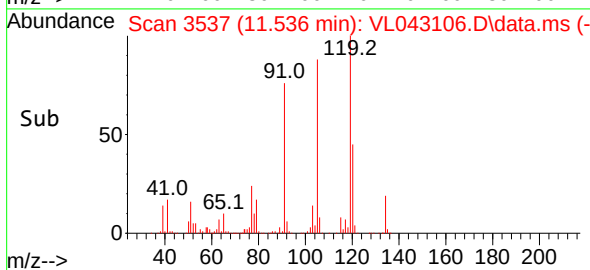
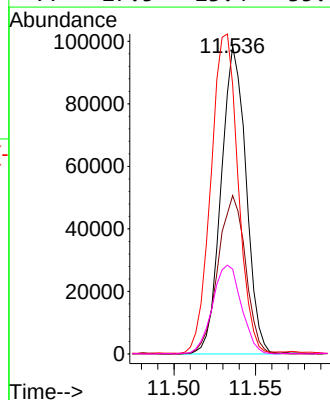
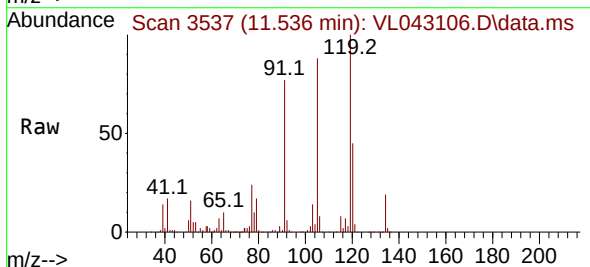
Ion Ratio Lower Upper

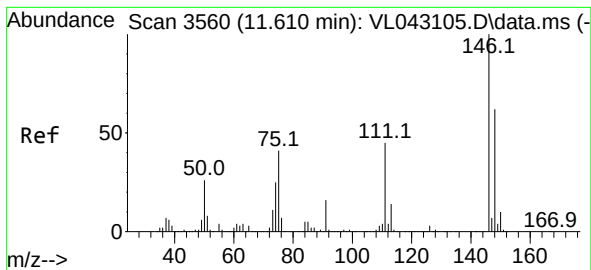
105 100

120 51.4 42.8 64.2

91 87.0 68.3 102.5

77 27.5 23.4 35.0





#75

1,3-Dichlorobenzene

Concen: 2.247 ppbv

RT: 11.607 min Scan# 3559

Delta R.T. -0.003 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

Tgt Ion:146 Resp: 62709

Ion Ratio Lower Upper

146 100

111 45.8 23.3 69.9

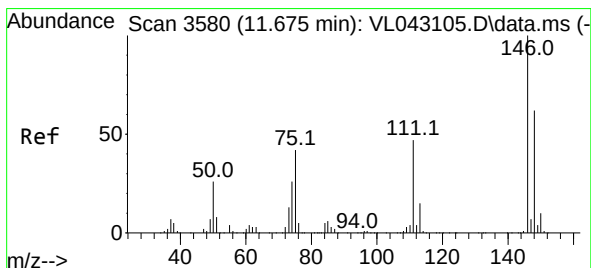
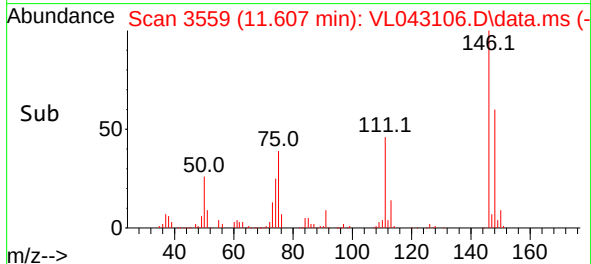
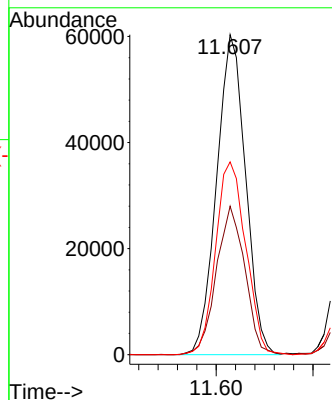
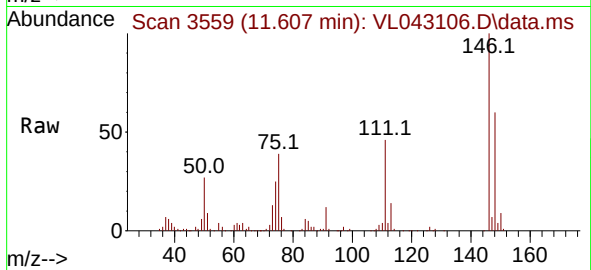
148 62.6 31.6 95.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#76

1,4-Dichlorobenzene

Concen: 2.164 ppbv

RT: 11.672 min Scan# 3579

Delta R.T. -0.003 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

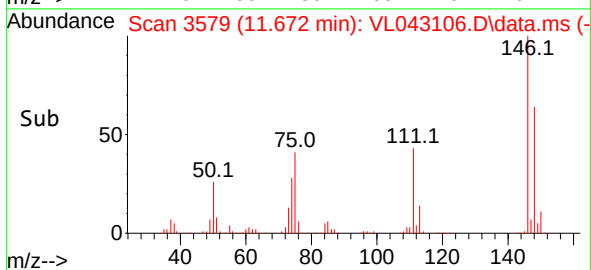
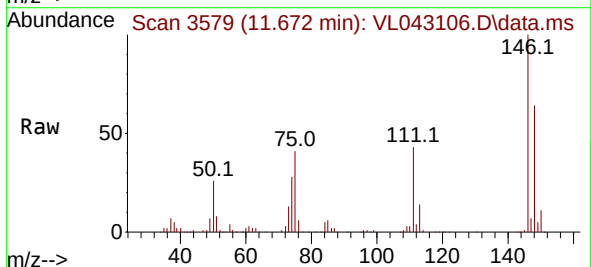
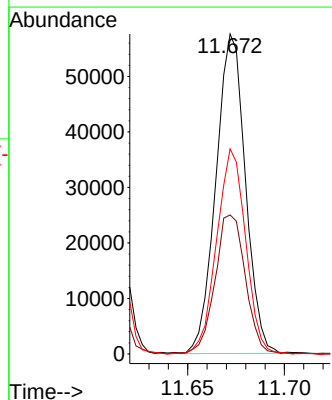
Tgt Ion:146 Resp: 60877

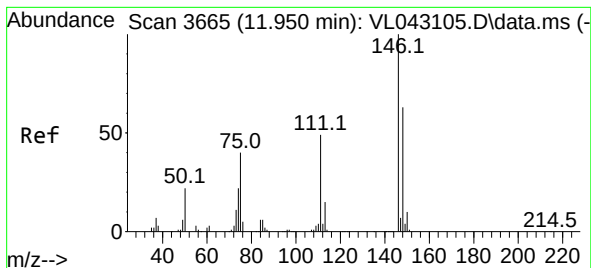
Ion Ratio Lower Upper

146 100

111 44.9 22.4 67.0

148 63.3 31.6 94.7





#77

1,2-Dichlorobenzene

Concen: 2.123 ppbv

RT: 11.947 min Scan# 3664

Delta R.T. -0.003 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

Instrument :

MSVOA_L

ClientSampleId :

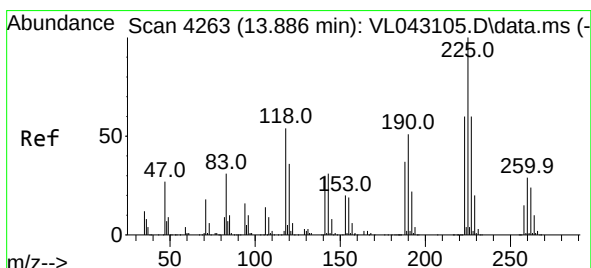
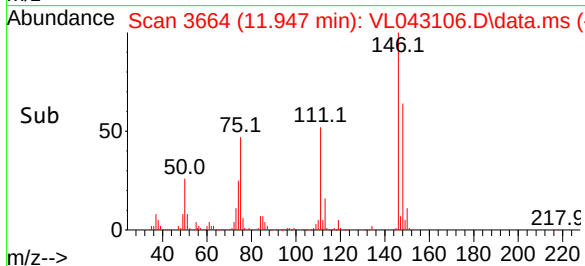
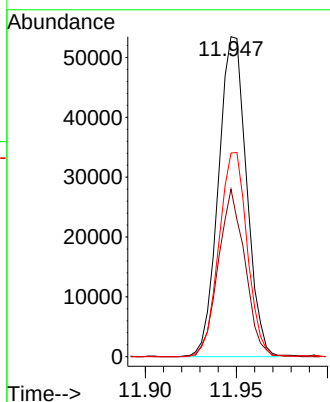
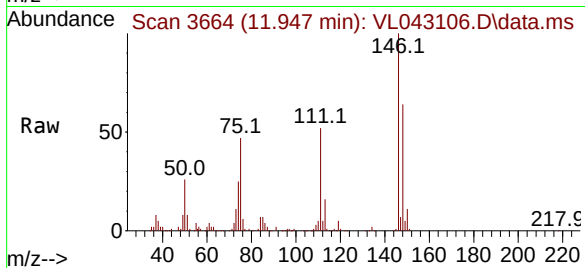
VSTDICC002

Tgt Ion:146	Resp:	57304
Ion Ratio	Lower	Upper
146	100	
111	49.7	24.0 72.0
148	64.3	31.1 93.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#78

Hexachloro-1,3-Butadiene

Concen: 2.239 ppbv

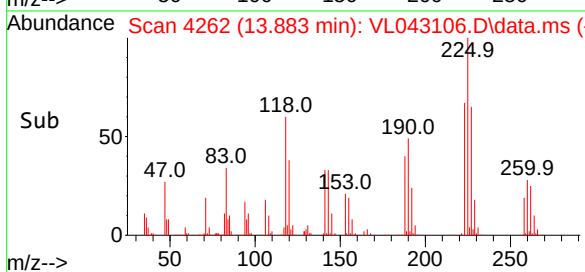
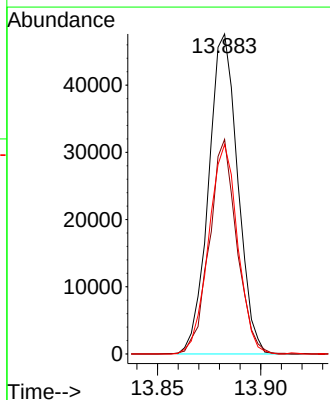
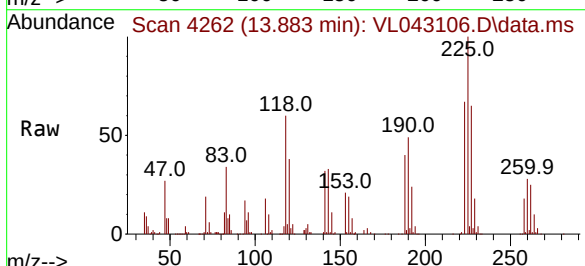
RT: 13.883 min Scan# 4262

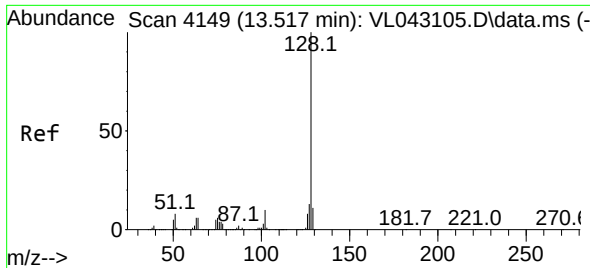
Delta R.T. -0.003 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

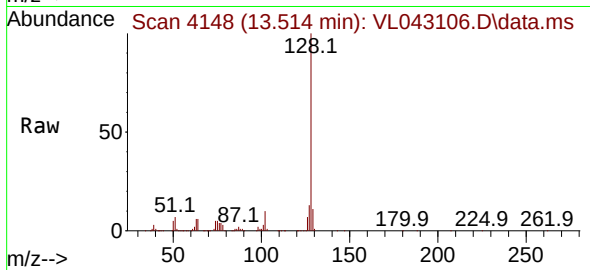
Tgt Ion:225	Resp:	46796
Ion Ratio	Lower	Upper
225	100	
223	63.2	50.2 75.4
227	65.2	49.6 74.4





#79
Naphthalene
Concen: 2.488 ppbv
RT: 13.514 min Scan# 4149
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

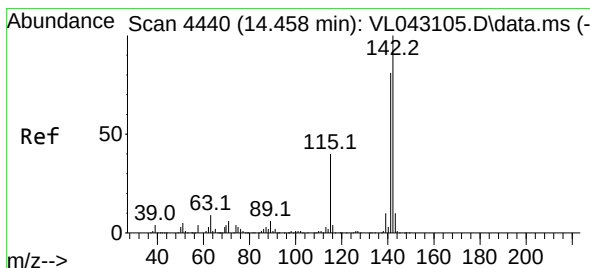
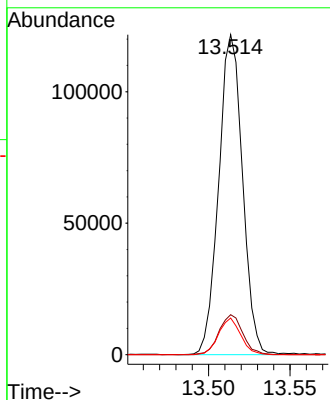
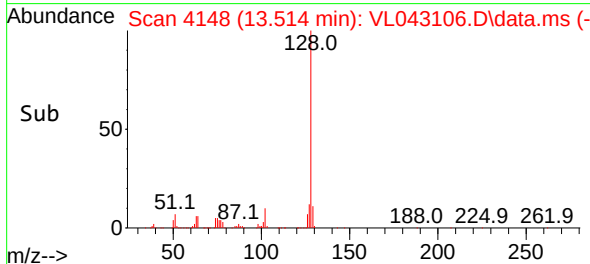
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



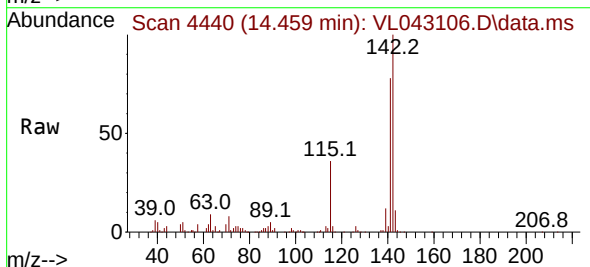
Tgt Ion:128 Resp: 12364
Ion Ratio Lower Upper
128 100
127 12.5 10.5 15.7
129 11.4 9.1 13.7

Manual Integrations
APPROVED

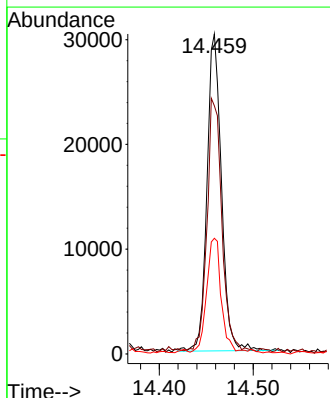
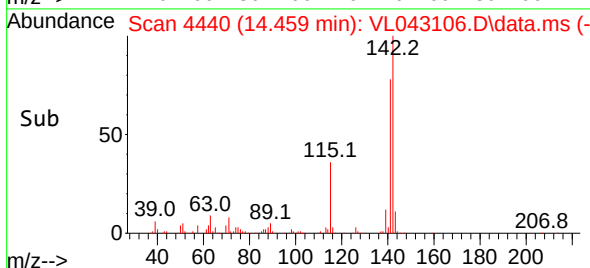
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

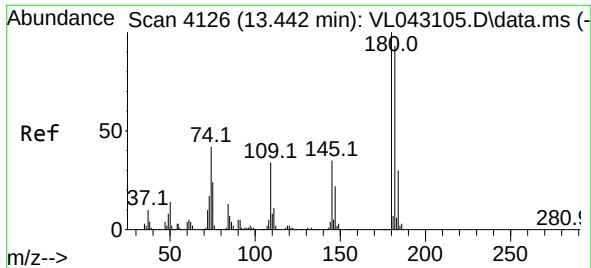


#80
Naphthalene,2-methyl-
Concen: 2.462 ppbv
RT: 14.459 min Scan# 4440
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27



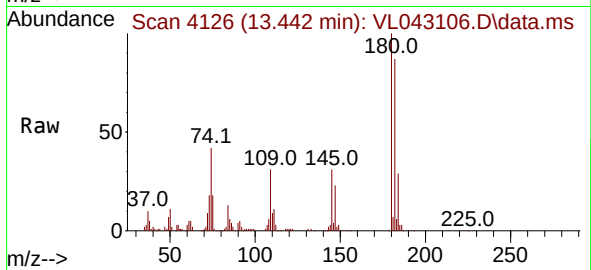
Tgt Ion:142 Resp: 32308
Ion Ratio Lower Upper
142 100
141 82.6 64.6 97.0
115 39.7 30.2 45.4





#81
 1,2,4-Trichlorobenzene
 Concen: 2.414 ppbv
 RT: 13.442 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL043106.D
 Acq: 14 Oct 2025 11:27

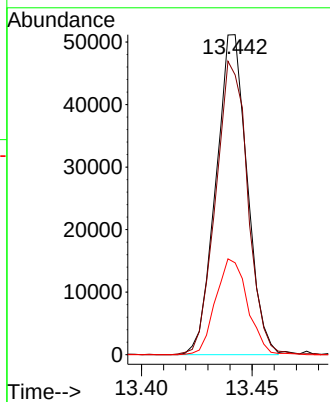
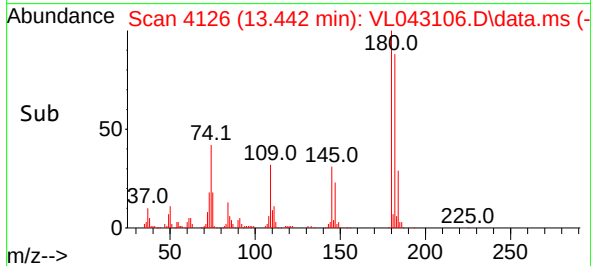
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002



Tgt Ion:180	Resp:	50394
Ion Ratio	Lower	Upper
180	100	
182	93.9	75.5 113.3
184	30.6	23.9 35.9

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
 Data File : VL043107.D
 Acq On : 14 Oct 2025 12:01
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 10/16/2025
 Supervised By : Mahesh Dadoda 10/16/2025

Quant Time: Oct 15 01:52:45 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

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

QLast Update : Wed Oct 15 01:49:43 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	102307	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	336268	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	305409	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 235307 9.912 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 99.100%

Target Compounds

					Qvalue	
2) Dichlorodifluoromethane	1.499	85	15620	1.074	ppbv	99
3) Chlorodifluoromethane	1.476	51	16692	1.061	ppbv #	91
4) Chloromethane	1.534	50	6353	1.103	ppbv	93
5) Vinyl Chloride	1.580	62	5694	1.008	ppbv	96
6) Bromomethane	1.667	94	3462	1.117	ppbv	98
7) Chloroethane	1.706	64	2615	1.132	ppbv #	82
8) Dichlorotetrafluoroethane	1.554	85	12940	1.101	ppbv	98
9) Propene	1.483	41	7291	1.045	ppbv	100
10) Heptane	4.978	43	22011	1.100	ppbv	99
11) Trichlorofluoromethane	1.877	101	14927	1.049	ppbv	85
12) 1,1,2-Trichlorotrifluo...	2.140	101	12484	1.090	ppbv	99
13) Ethanol	1.722	45	3143	1.217	ppbv	83
14) Bromoethene	1.780	108	4440	1.043	ppbv #	90
15) Acetone	1.835	43	15572	1.123	ppbv	90
16) 1,3-Butadiene	1.609	39	7157	1.089	ppbv	97
17) tert-Butyl alcohol	2.043	59	20941	1.106	ppbv #	90
18) 1,1-Dichloroethene	2.036	96	5510	1.103	ppbv	88
19) Isopropyl Alcohol	1.887	45	9796	1.141	ppbv #	85
20) Methylene Chloride	2.062	84	6261	1.149	ppbv	96
21) Allyl Chloride	2.094	41	10737	1.055	ppbv #	82
22) trans-1,2-Dichloroethene	2.340	96	7119	1.193	ppbv	92
23) Vinyl Acetate	2.463	43	19477	0.964	ppbv	99
24) 1,1-Dichloroethane	2.405	63	12656	1.097	ppbv #	94
25) Ethyl Acetate	2.832	43	37093	1.085	ppbv	98
26) Hexane	2.826	57	17152	1.089	ppbv	98
27) Carbon Disulfide	2.149	76	15760	1.092	ppbv #	60
28) Methyl tert-Butyl Ether	2.441	73	7847	1.095	ppbv #	87
29) Chloroform	2.845	83	24527	1.074	ppbv	90
30) Cyclohexane	3.855	84	14819	1.078	ppbv	97
31) cis-1,2-Dichloroethene	2.719	61	16311	1.084	ppbv	93
32) 1,1,1-Trichloroethane	3.366	97	24948	1.049	ppbv	98
34) 2-Butanone	2.557	43	23811	1.047	ppbv	100
35) Carbon Tetrachloride	3.761	117	24969	1.033	ppbv	93
36) Benzene	3.651	78	32940	1.040	ppbv	99
37) 1,2-Dichloroethane	3.217	62	19213	1.053	ppbv	100
38) Trichloroethene	4.544	130	13512	1.023	ppbv	96
39) 1,2-Dichloropropane	4.311	63	12435	1.073	ppbv	92
40) 1,4-Dioxane	4.593	88	5579m	1.077	ppbv	
41) Tetrahydrofuran	3.056	42	13251	1.044	ppbv	99
42) Bromodichloromethane	4.486	83	26069	1.032	ppbv #	94
43) Methyl Methacrylate	4.878	69	17195	1.064	ppbv	97
44) 2,2,4-Trimethylpentane	4.638	57	57382	1.084	ppbv	96
45) t-1,3-Dichloropropene	6.415	75	16874m	1.045	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
 Data File : VL043107.D
 Acq On : 14 Oct 2025 12:01
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025

Quant Time: Oct 15 01:52:45 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

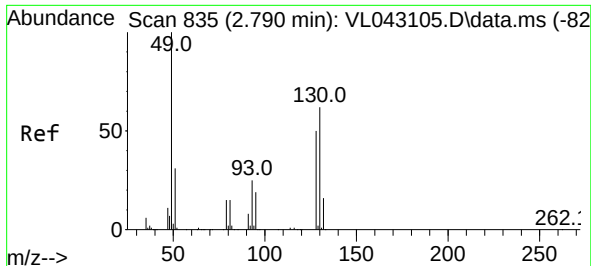
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Wed Oct 15 01:49:43 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.596	75	19830	1.029	ppbv	94
47) 1,1,2-Trichloroethane	6.577	97	12876	1.030	ppbv	98
48) Dibromochloromethane	7.383	129	21874	1.046	ppbv	97
49) Bromoform	9.480	173	17320	1.019	ppbv	96
50) 4-Methyl-2-Pentanone	5.752	43	33269m	1.061	ppbv	
51) 2-Hexanone	7.441	43	23817	1.018	ppbv #	95
52) Tetrachloroethene	8.224	164	12319	1.079	ppbv	91
53) Toluene	6.930	91	39079	1.040	ppbv	98
54) 1,2-Dibromoethane	7.652	107	19711	0.999	ppbv	88
56) 1,1,1,2-Tetrachloroethane	8.920	131	20279	1.053	ppbv	96
57) Chlorobenzene	8.920	112	30824	1.079	ppbv	97
58) Ethyl Benzene	9.351	91	55420	1.049	ppbv	96
59) m/p-Xylene	9.552	91	88998m	2.127	ppbv	
60) o-Xylene	9.963	91	44925	1.088	ppbv	100
61) Styrene	9.869	104	19809	1.063	ppbv	98
62) Isopropylbenzene	10.535	105	81579	1.093	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.959	83	28230	1.021	ppbv	100
64) n-propylbenzene	10.985	120	21685	1.098	ppbv	98
65) tert-Butylbenzene	11.529	119	72781	1.105	ppbv	99
66) Benzyl Chloride	11.613	91	7918	1.076	ppbv	97
67) sec-Butylbenzene	11.765	105	103152	1.103	ppbv	100
69) p-Isopropyltoluene	11.924	119	88443	1.113	ppbv	99
70) n-Butylbenzene	12.280	91	86120	1.100	ppbv	98
71) 2-Chlorotoluene	10.898	91	60994	1.072	ppbv	99
72) 4-Ethyltoluene	11.121	105	53788	1.059	ppbv	98
73) 1,3,5-Trimethylbenzene	11.202	105	44786	1.070	ppbv	98
74) 1,2,4-Trimethylbenzene	11.532	105	52118	1.112	ppbv	95
75) 1,3-Dichlorobenzene	11.604	146	29186	1.074	ppbv	99
76) 1,4-Dichlorobenzene	11.668	146	29225	1.066	ppbv	98
77) 1,2-Dichlorobenzene	11.947	146	29146	1.109	ppbv	98
78) Hexachloro-1,3-Butadiene	13.879	225	23330	1.146	ppbv	99
79) Naphthalene	13.510	128	53930	1.114	ppbv	98
80) Naphthalene,2-methyl-	14.458	142	10851	0.849	ppbv	94
81) 1,2,4-Trichlorobenzene	13.439	180	22161	1.090	ppbv	98

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



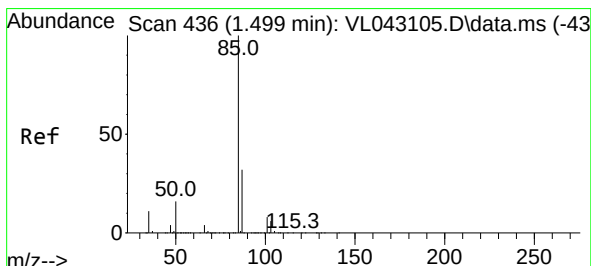
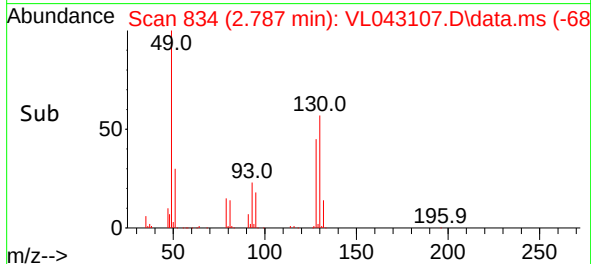
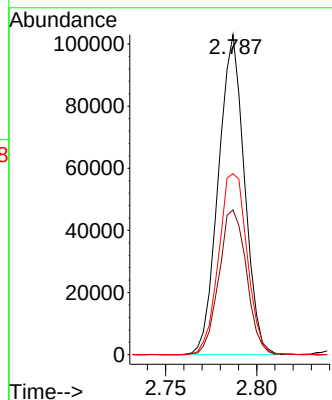
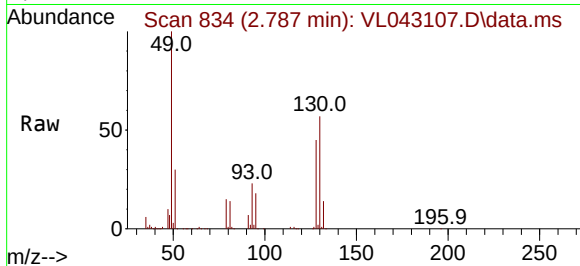
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 49 Resp: 10230
Ion Ratio Lower Upper
49 100
128 48.0 24.4 73.4
130 62.0 31.0 93.0

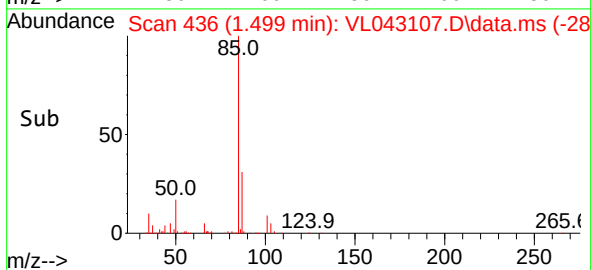
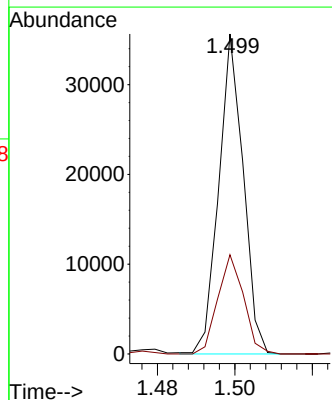
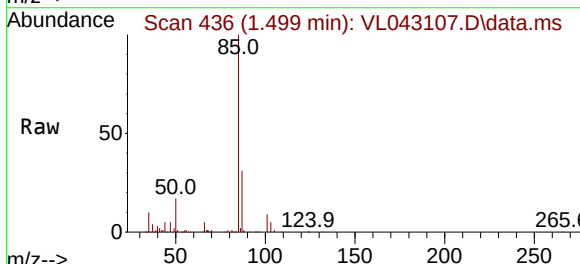
Manual Integrations
APPROVED

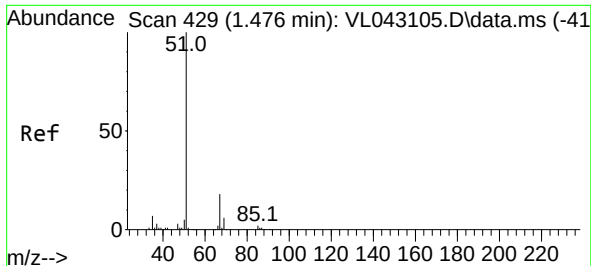
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#2
Dichlorodifluoromethane
Concen: 1.074 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 85 Resp: 15620
Ion Ratio Lower Upper
85 100
87 31.0 25.3 37.9





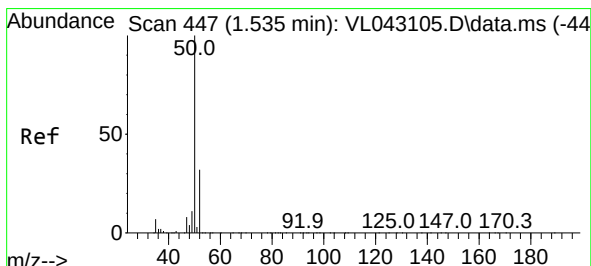
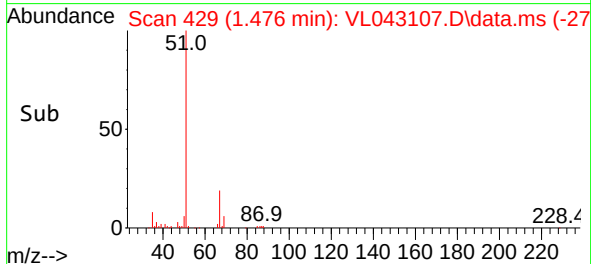
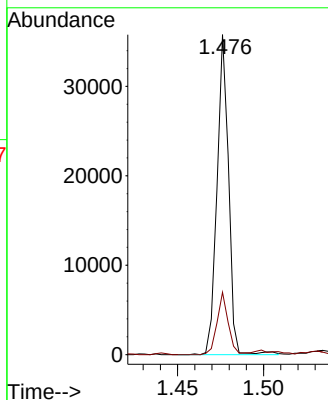
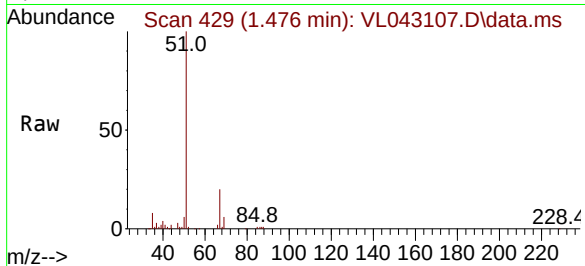
#3
Chlorodifluoromethane
Concen: 1.061 ppbv
RT: 1.476 min Scan# 429
Delta R.T. -0.000 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 51 Resp: 16692
Ion Ratio Lower Upper
51 100
67 22.8 15.1 22.75

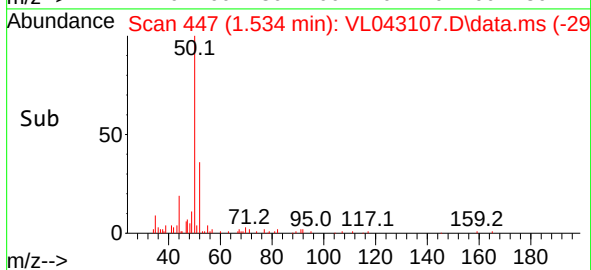
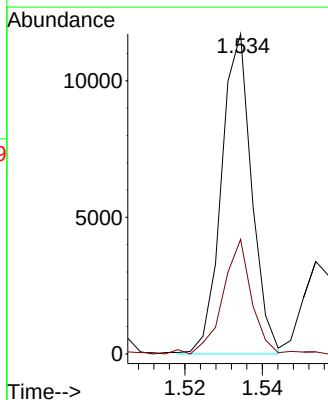
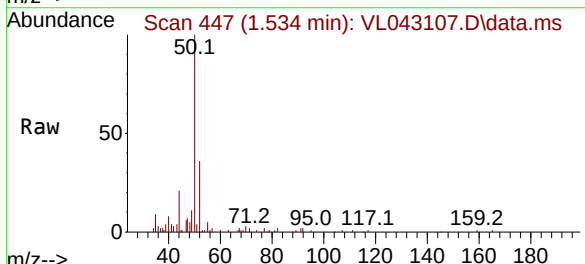
Manual Integrations
APPROVED

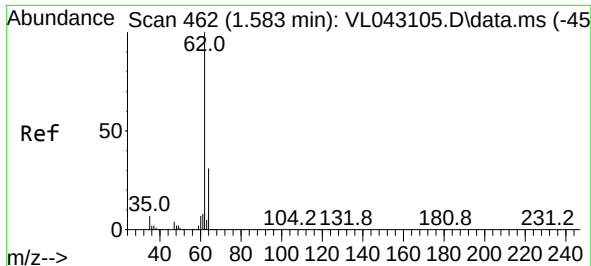
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#4
Chloromethane
Concen: 1.103 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.000 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

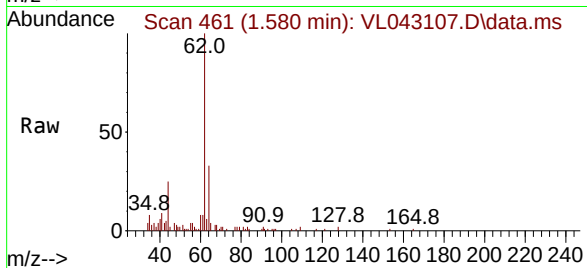
Tgt Ion: 50 Resp: 6353
Ion Ratio Lower Upper
50 100
52 35.6 25.2 37.8





#5
 Vinyl Chloride
 Concen: 1.008 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. -0.003 min
 Lab File: VL043107.D
 Acq: 14 Oct 2025 12:01

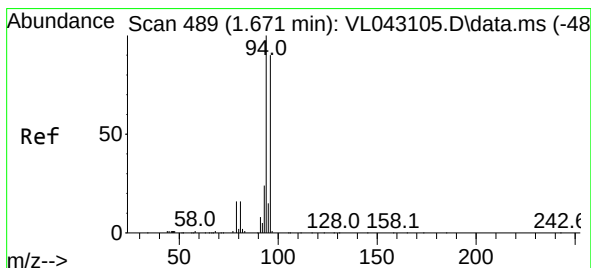
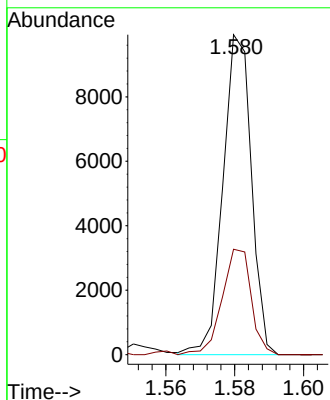
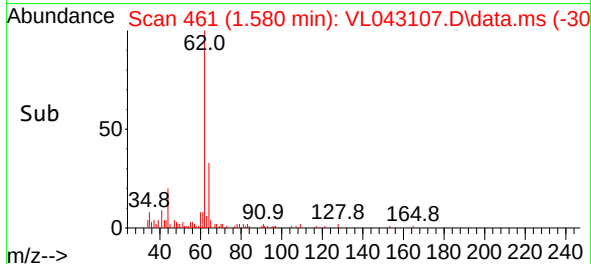
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



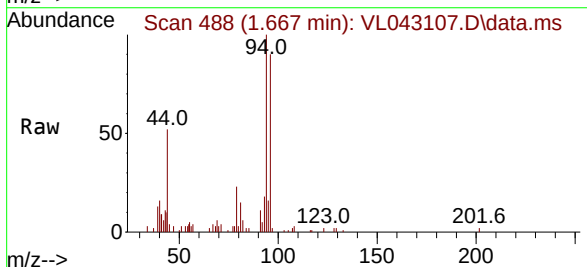
Tgt Ion: 62 Resp: 5694
 Ion Ratio Lower Upper
 62 100
 64 32.9 24.6 36.8

Manual Integrations
 APPROVED

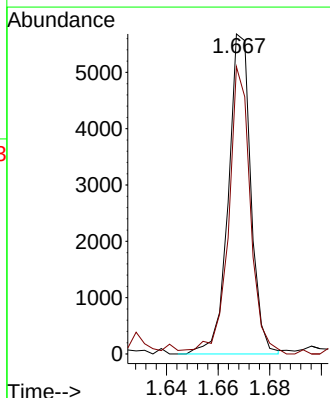
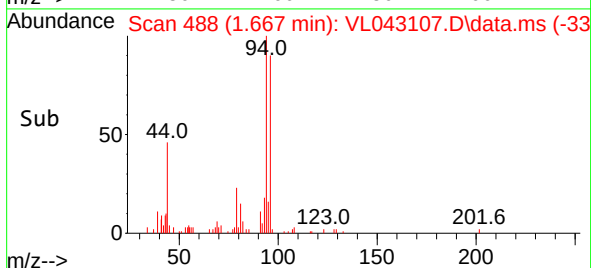
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025

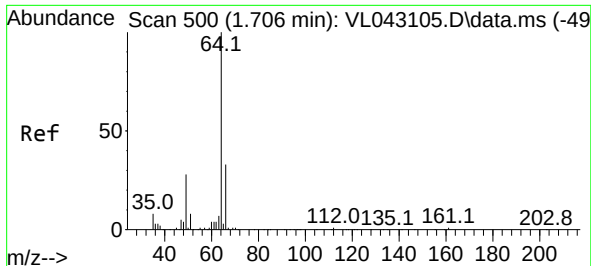


#6
 Bromomethane
 Concen: 1.117 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. -0.003 min
 Lab File: VL043107.D
 Acq: 14 Oct 2025 12:01



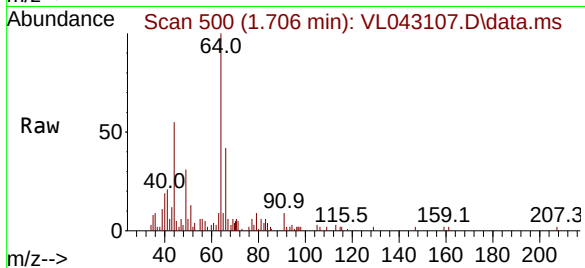
Tgt Ion: 94 Resp: 3462
 Ion Ratio Lower Upper
 94 100
 96 88.6 72.2 108.4





#7
Chloroethane
Concen: 1.132 ppbv
RT: 1.706 min Scan# 500
Delta R.T. -0.000 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

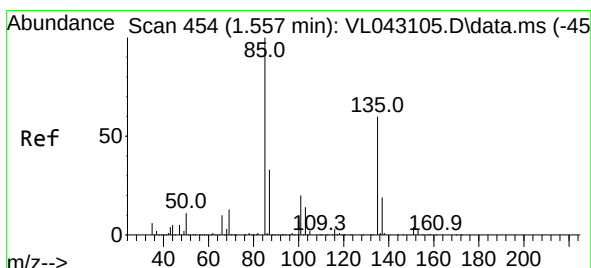
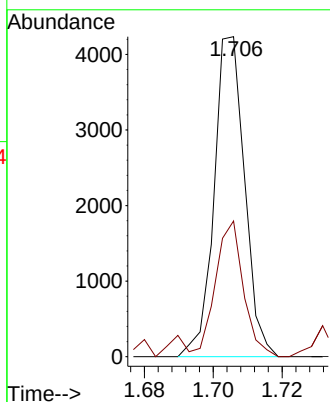
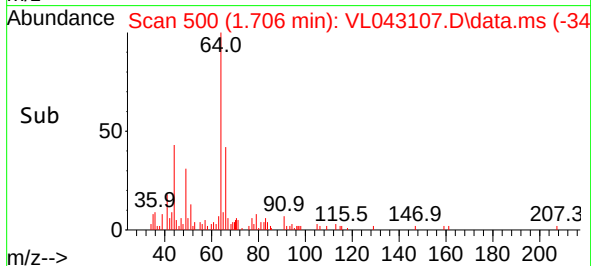
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



Tgt Ion: 64 Resp: 261
Ion Ratio Lower Upper
64 100
66 42.4 26.0 39.0

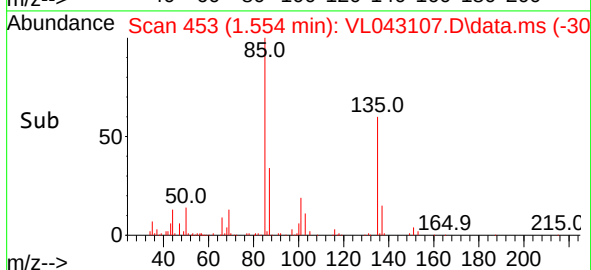
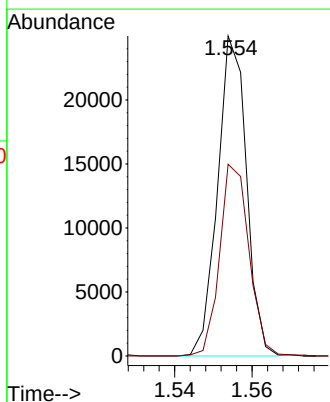
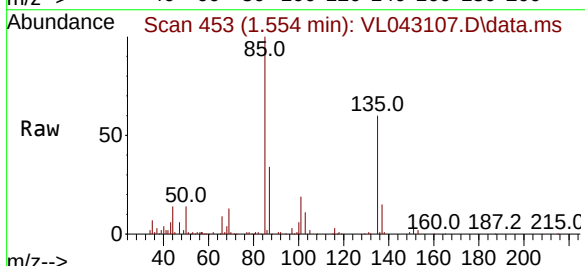
Manual Integrations
APPROVED

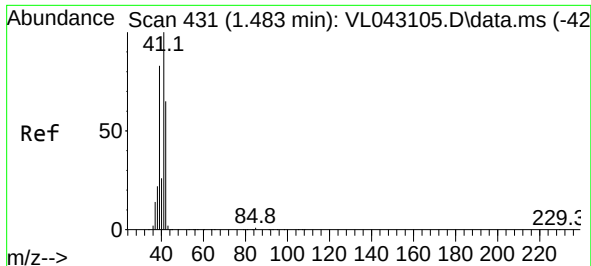
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#8
Dichlorotetrafluoroethane
Concen: 1.101 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

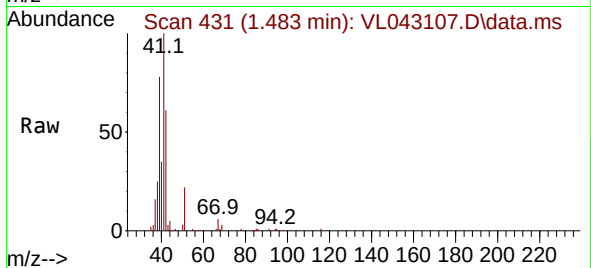
Tgt Ion: 85 Resp: 12940
Ion Ratio Lower Upper
85 100
135 61.5 48.2 72.4





#9
 Propene
 Concen: 1.045 ppbv
 RT: 1.483 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL043107.D
 Acq: 14 Oct 2025 12:01

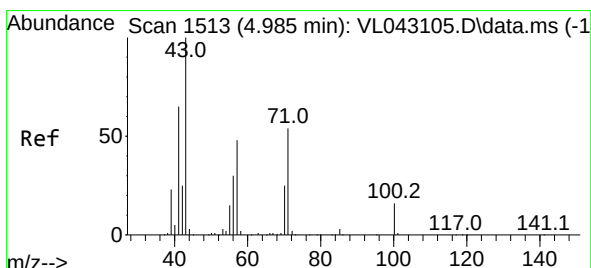
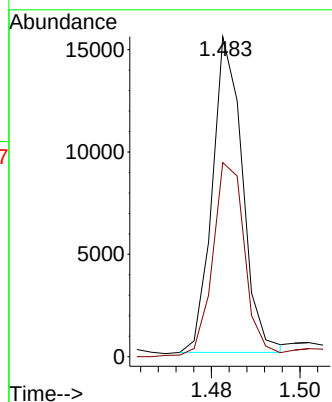
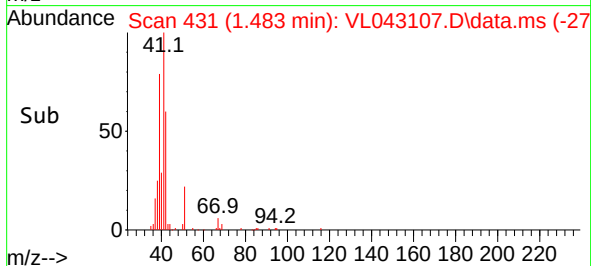
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



Tgt Ion: 41 Resp: 729
 Ion Ratio Lower Upper
 41 100
 42 68.5 55.1 82.7

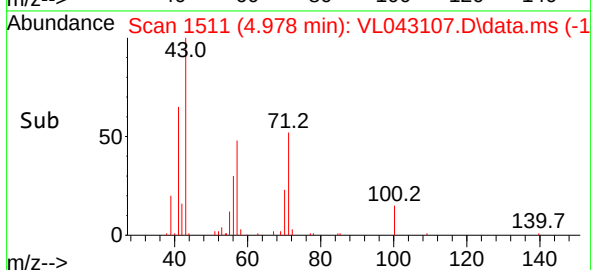
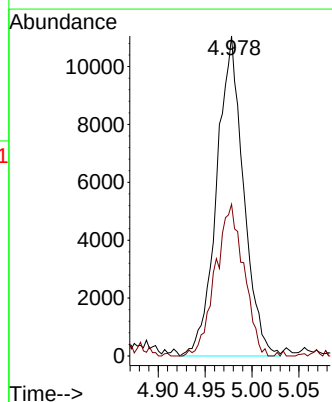
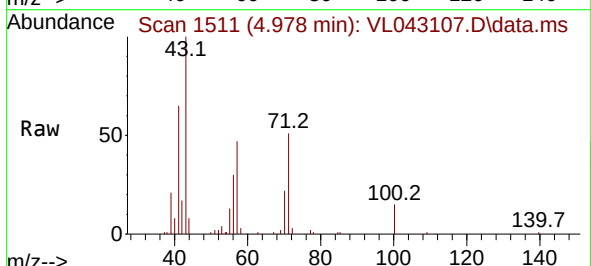
Manual Integrations
 APPROVED

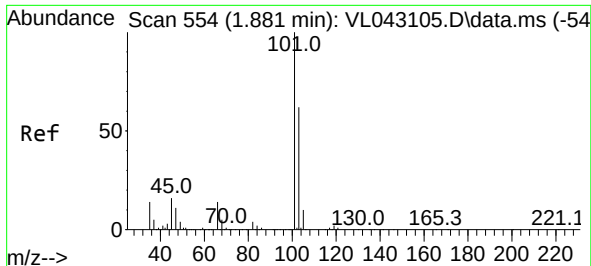
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025



#10
 Heptane
 Concen: 1.100 ppbv
 RT: 4.978 min Scan# 1511
 Delta R.T. -0.007 min
 Lab File: VL043107.D
 Acq: 14 Oct 2025 12:01

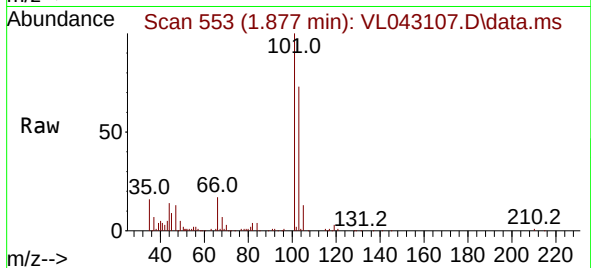
Tgt Ion: 43 Resp: 22011
 Ion Ratio Lower Upper
 43 100
 57 50.4 40.8 61.2





#11
Trichlorofluoromethane
Concen: 1.049 ppbv
RT: 1.877 min Scan# 51
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

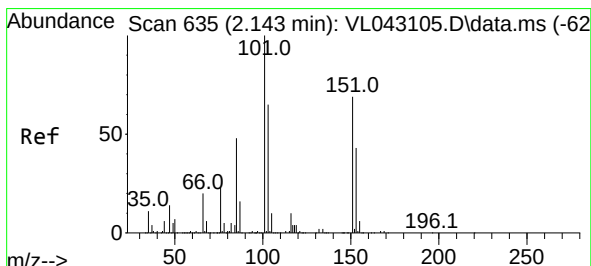
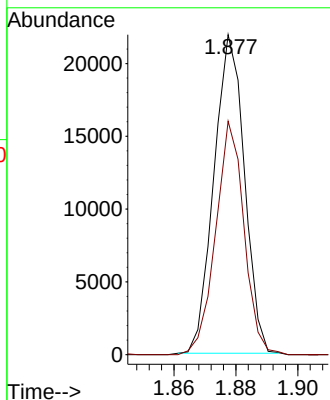
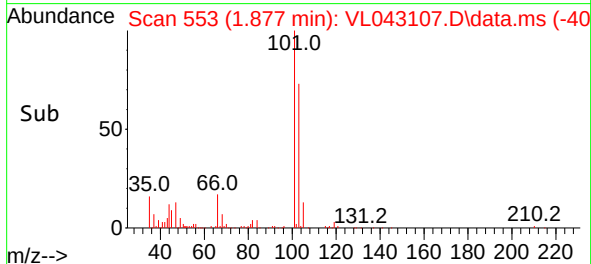
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



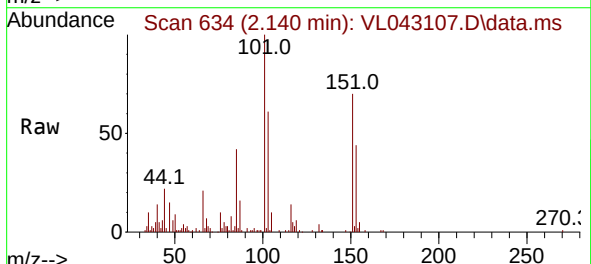
Tgt Ion:101 Resp: 1492
Ion Ratio Lower Upper
101 100
103 73.3 49.3 73.9

Manual Integrations
APPROVED

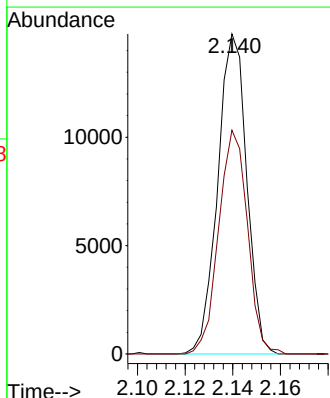
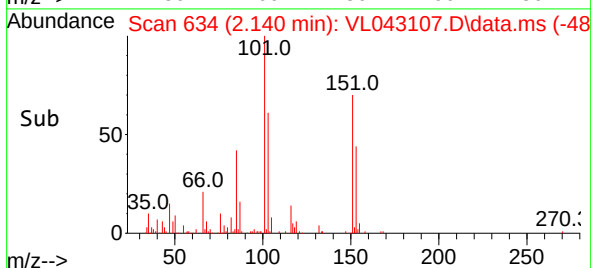
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

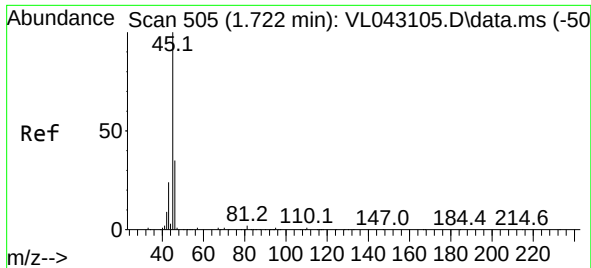


#12
1,1,2-Trichlorotrifluoroethane
Concen: 1.090 ppbv
RT: 2.140 min Scan# 634
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01



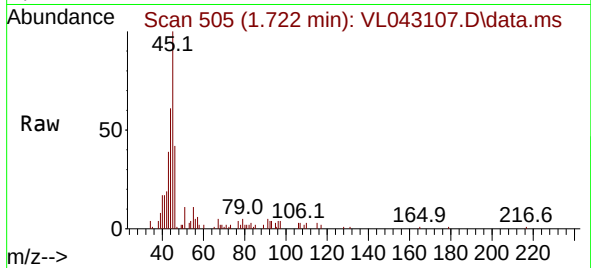
Tgt Ion:101 Resp: 12484
Ion Ratio Lower Upper
101 100
151 69.5 54.7 82.1





#13
Ethanol
Concen: 1.217 ppbv
RT: 1.722 min Scan# 505
Delta R.T. -0.000 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

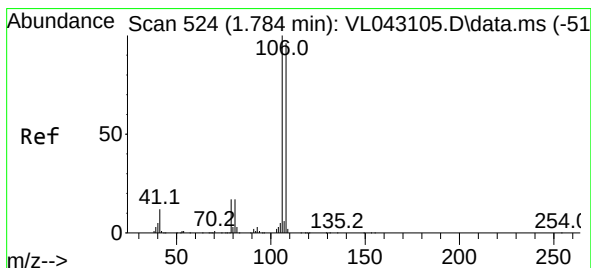
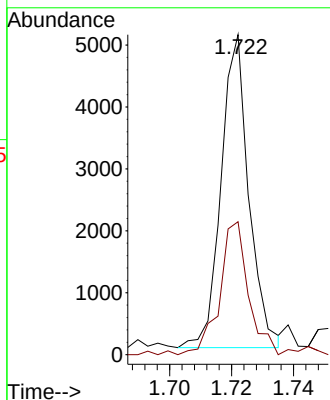
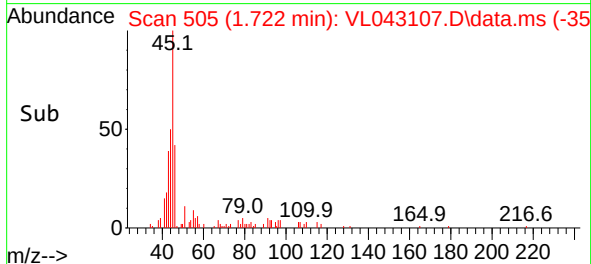
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



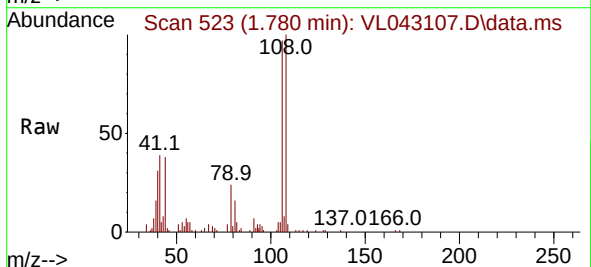
Tgt Ion: 45 Resp: 314
Ion Ratio Lower Upper
45 100
46 46.7 14.7 58.9

Manual Integrations
APPROVED

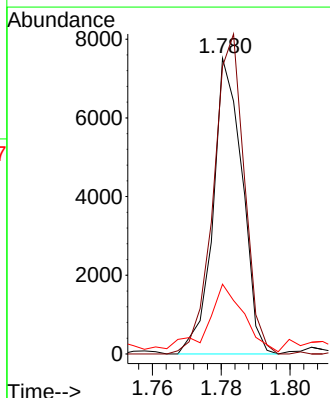
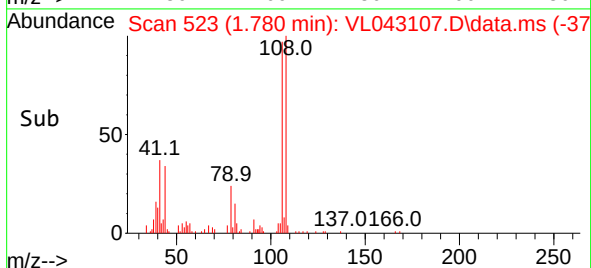
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

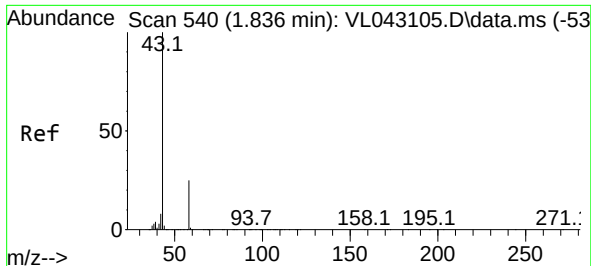


#14
Bromoethene
Concen: 1.043 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01



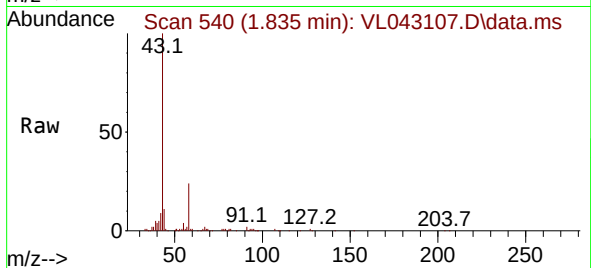
Tgt Ion:108 Resp: 4440
Ion Ratio Lower Upper
108 100
106 113.7 84.4 126.6
79 28.9 15.3 22.9





#15
Acetone
Concen: 1.123 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

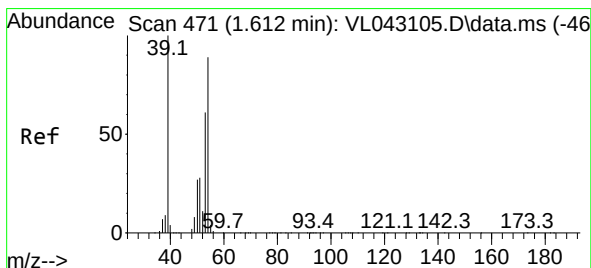
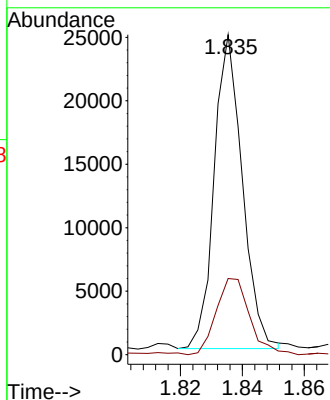
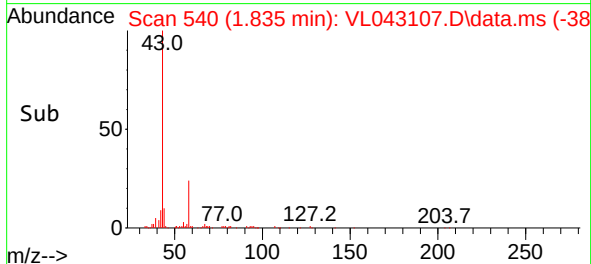
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



Tgt Ion: 43 Resp: 15572
Ion Ratio Lower Upper
43 100
58 31.0 20.8 31.2

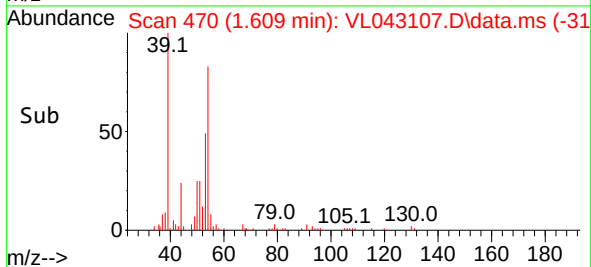
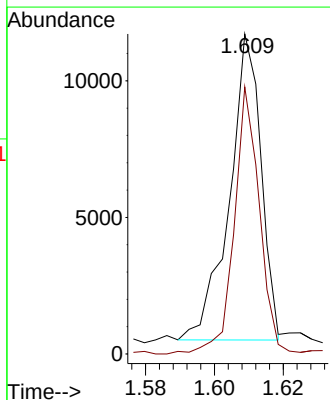
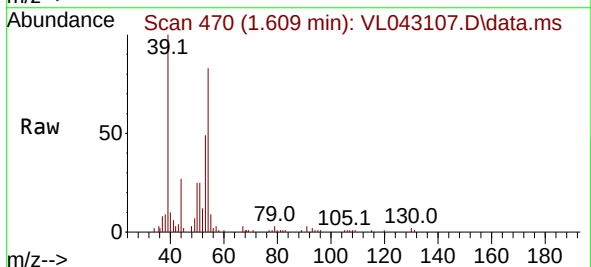
Manual Integrations
APPROVED

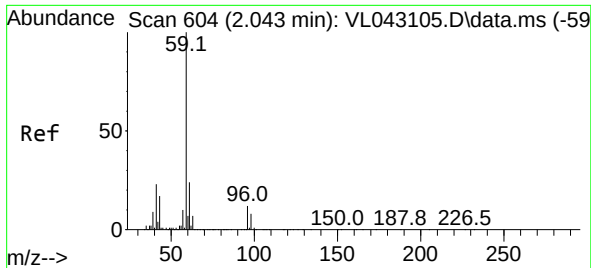
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#16
1,3-Butadiene
Concen: 1.089 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 39 Resp: 7157
Ion Ratio Lower Upper
39 100
54 70.8 59.0 88.4





#17

tert-Butyl alcohol

Concen: 1.106 ppbv

RT: 2.043 min Scan# 604

Delta R.T. -0.000 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion: 59 Resp: 2094

Ion Ratio Lower Upper

59 100

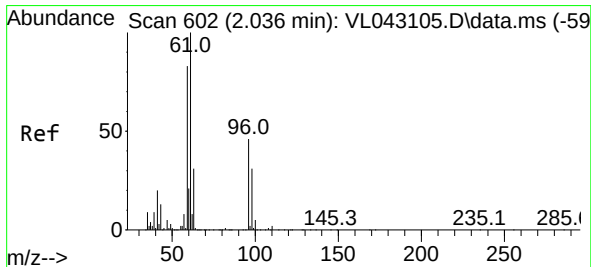
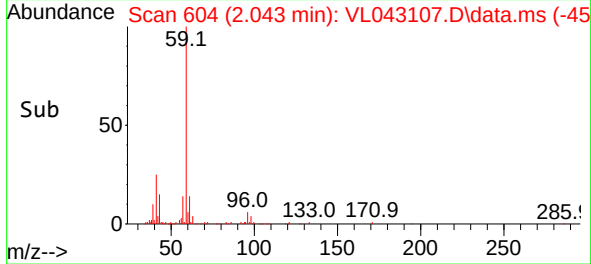
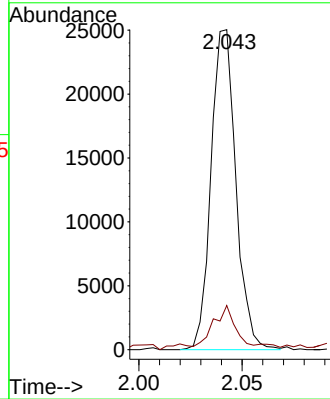
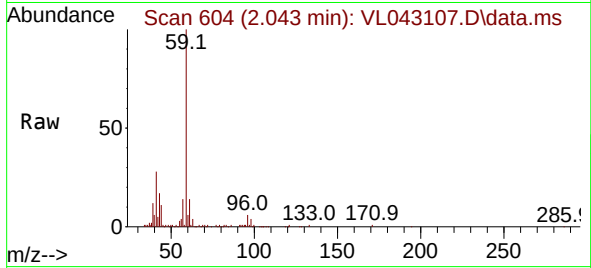
57 14.0 8.2 12.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#18

1,1-Dichloroethene

Concen: 1.103 ppbv

RT: 2.036 min Scan# 602

Delta R.T. -0.000 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

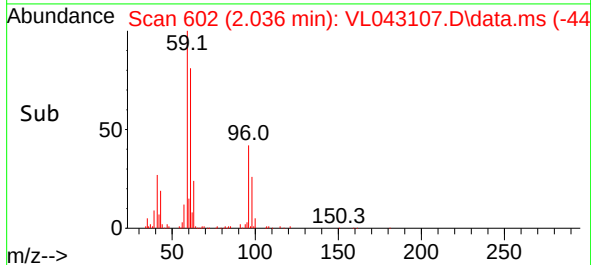
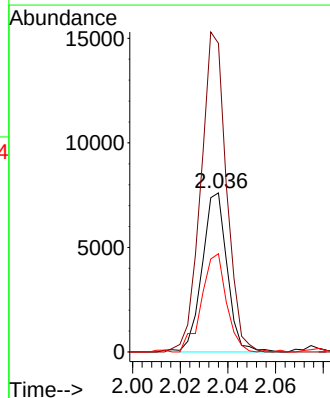
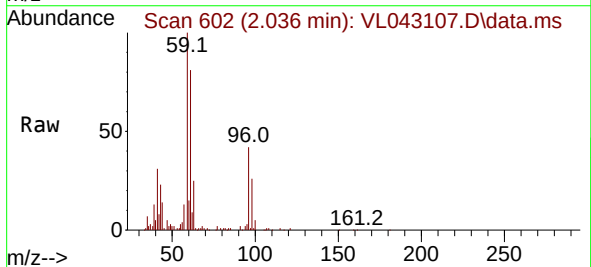
Tgt Ion: 96 Resp: 5510

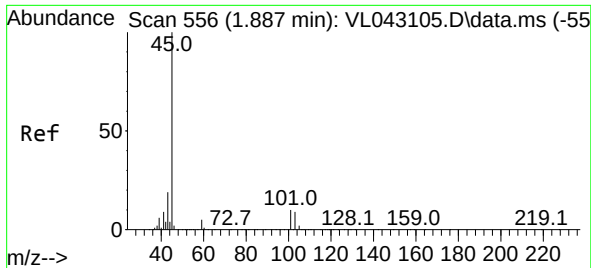
Ion Ratio Lower Upper

96 100

61 194.0 173.4 260.0

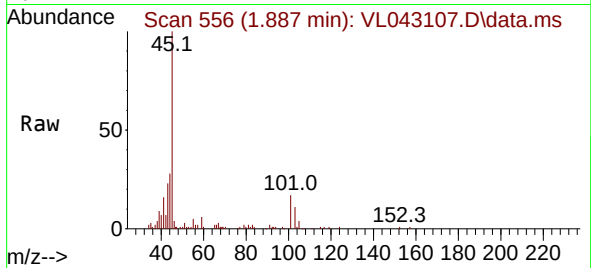
98 61.7 53.2 79.8





#19
Isopropyl Alcohol
Concen: 1.141 ppbv
RT: 1.887 min Scan# 510
Delta R.T. -0.000 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

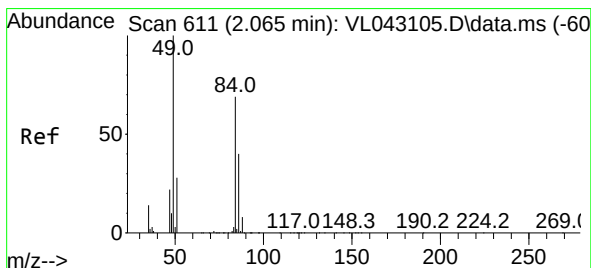
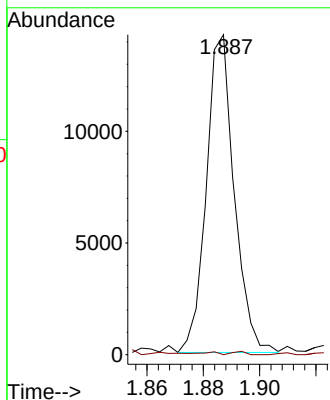
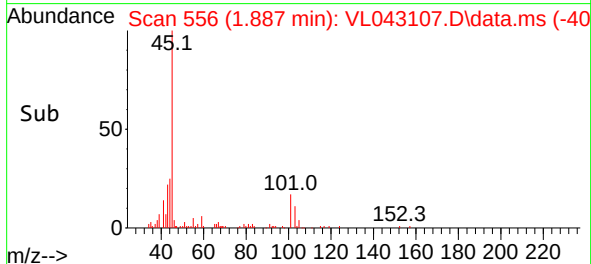
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



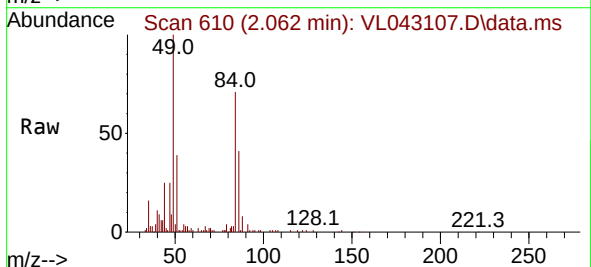
Tgt Ion: 45 Resp: 9790
Ion Ratio Lower Upper
45 100
58 48.1 31.3 46.9

Manual Integrations
APPROVED

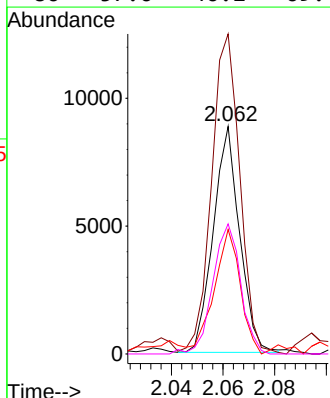
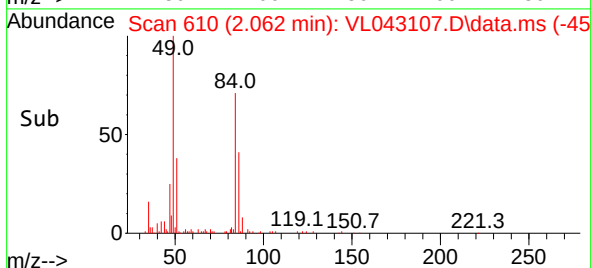
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

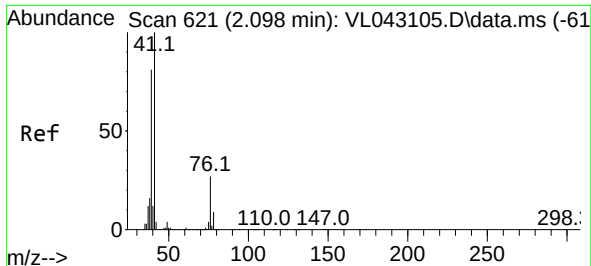


#20
Methylene Chloride
Concen: 1.149 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01



Tgt Ion: 84 Resp: 6261
Ion Ratio Lower Upper
84 100
49 140.9 116.6 175.0
51 51.2 34.8 52.2
86 57.6 46.2 69.4





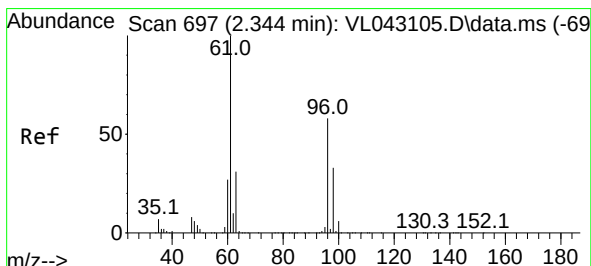
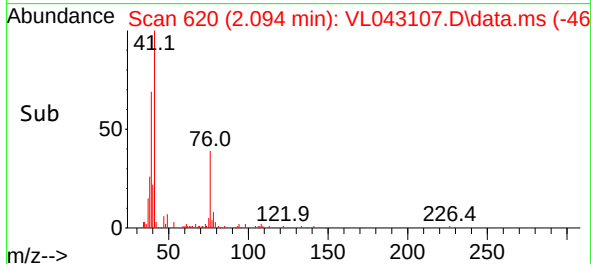
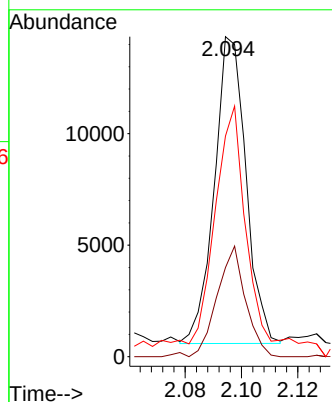
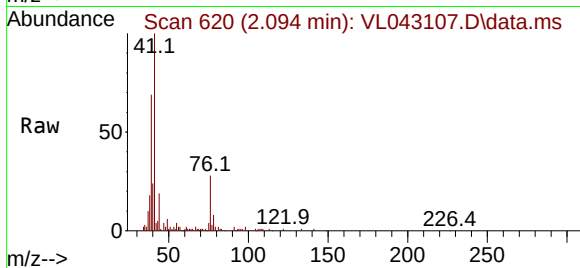
#21
 Allyl Chloride
 Concen: 1.055 ppbv
 RT: 2.094 min Scan# 61
 Delta R.T. -0.003 min
 Lab File: VL043107.D
 Acq: 14 Oct 2025 12:01

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tgt Ion: 41 Resp: 1073
 Ion Ratio Lower Upper
 41 100
 76 32.6 21.5 32.3
 39 94.1 60.8 91.2

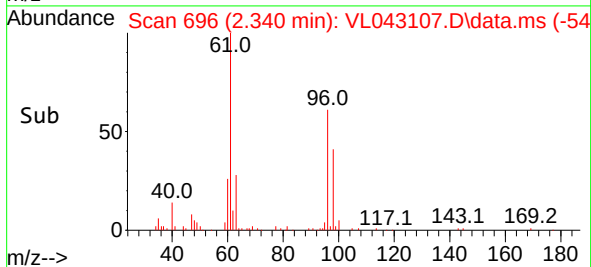
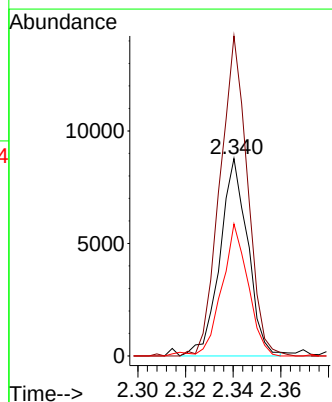
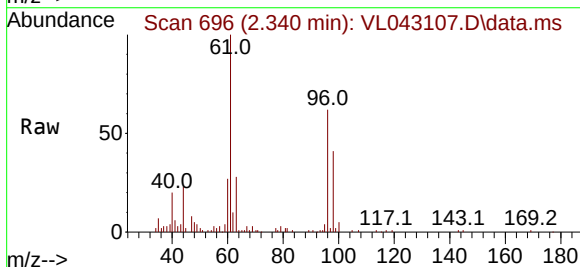
Manual Integrations
 APPROVED

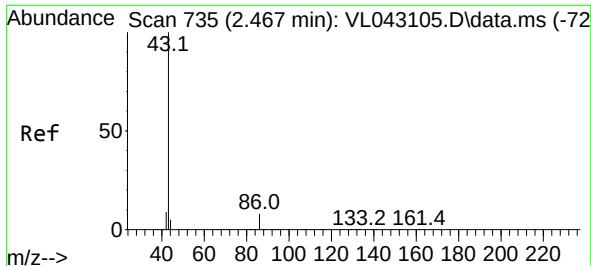
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025



#22
 trans-1,2-Dichloroethene
 Concen: 1.193 ppbv
 RT: 2.340 min Scan# 696
 Delta R.T. -0.003 min
 Lab File: VL043107.D
 Acq: 14 Oct 2025 12:01

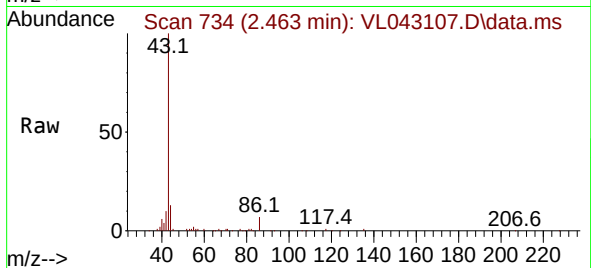
Tgt Ion: 96 Resp: 7119
 Ion Ratio Lower Upper
 96 100
 61 162.1 137.0 205.6
 98 66.9 45.5 68.3





#23
 Vinyl Acetate
 Concen: 0.964 ppbv
 RT: 2.463 min Scan# 716
 Delta R.T. -0.003 min
 Lab File: VL043107.D
 Acq: 14 Oct 2025 12:01

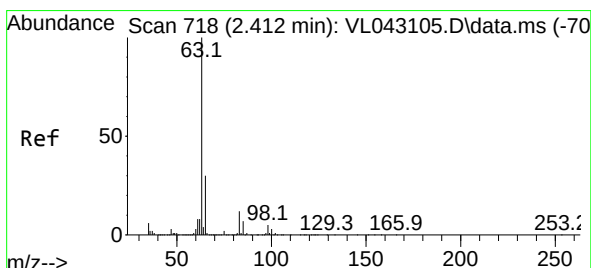
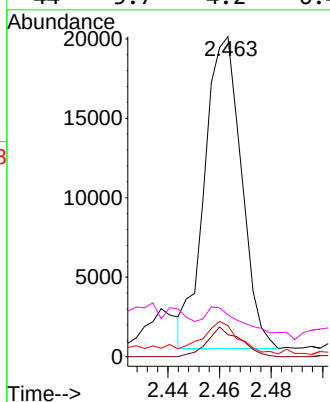
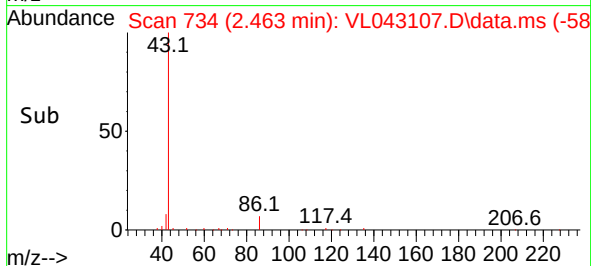
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001



Tgt Ion:	43	Resp:	1947
Ion Ratio	100	Lower	Upper
43	100		
86	7.0	6.2	9.2
42	9.1	7.6	11.4
44	5.7	4.2	6.4

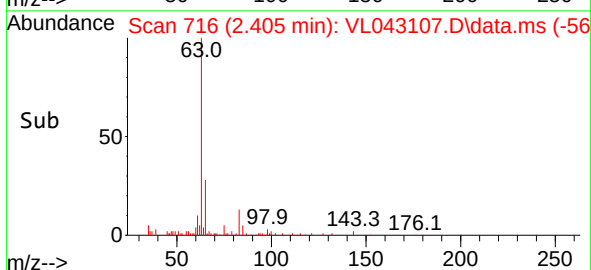
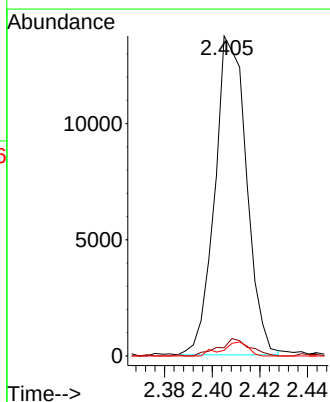
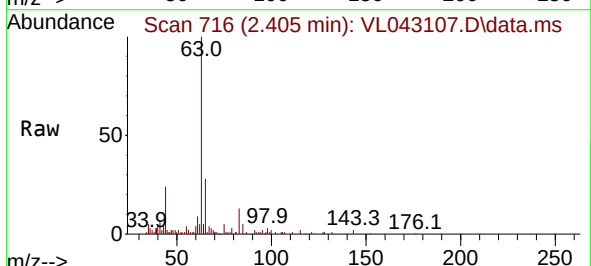
Manual Integrations
 APPROVED

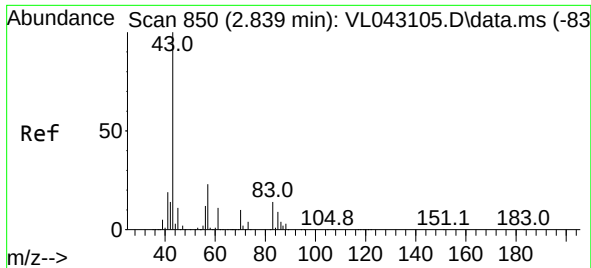
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025



#24
 1,1-Dichloroethane
 Concen: 1.097 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. -0.007 min
 Lab File: VL043107.D
 Acq: 14 Oct 2025 12:01

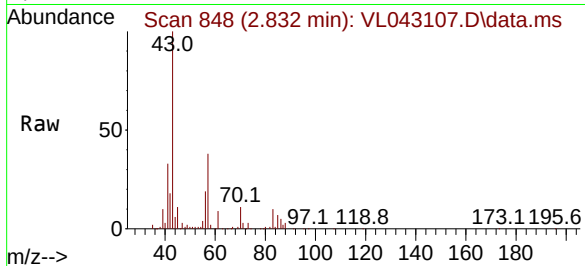
Tgt Ion:	63	Resp:	12656
Ion Ratio	100	Lower	Upper
63	100		
98	2.6	2.6	7.8#
100	1.7	1.5	4.4





#25
Ethyl Acetate
Concen: 1.085 ppbv
RT: 2.832 min Scan# 848
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

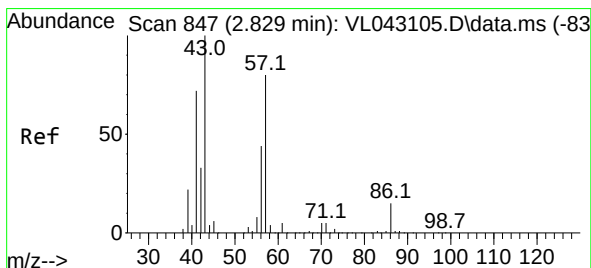
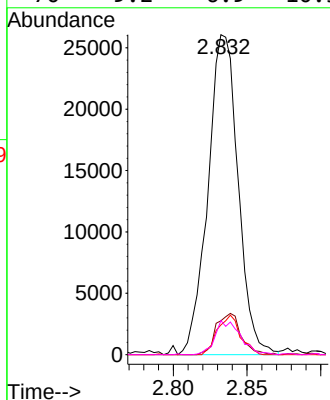
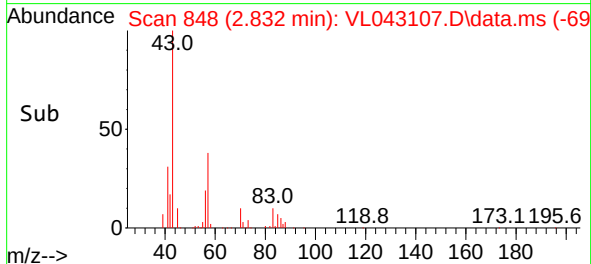
Instrument : MSVOA_L
ClientSampleId : VSTDIC001



Tgt Ion: 43 Resp: 3709
Ion Ratio Lower Upper
43 100
45 10.8 7.8 11.8
61 9.4 7.0 10.6
70 9.2 6.9 10.3

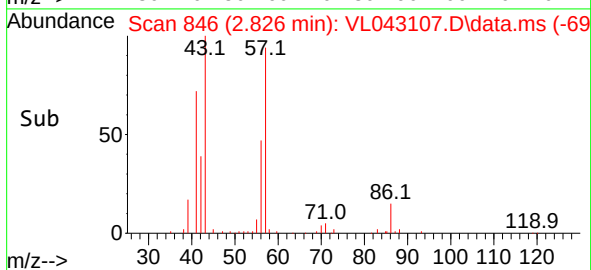
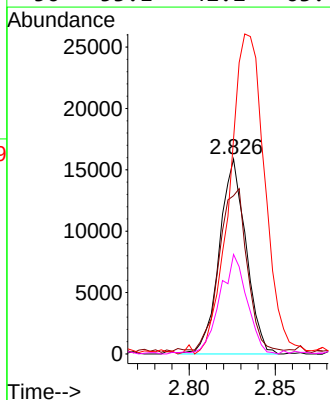
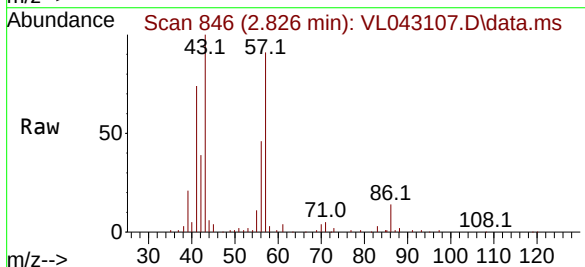
Manual Integrations
APPROVED

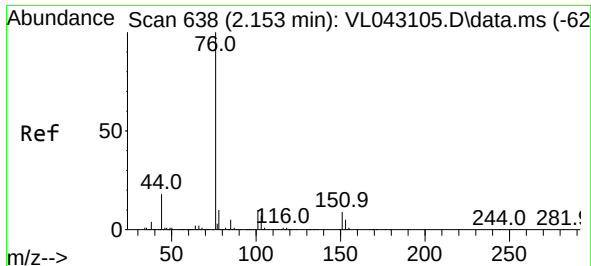
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#26
Hexane
Concen: 1.089 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 57 Resp: 17152
Ion Ratio Lower Upper
57 100
41 91.8 71.4 107.0
43 219.3 178.5 267.7
56 53.1 42.2 63.4





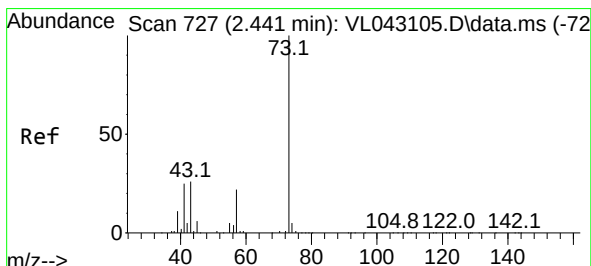
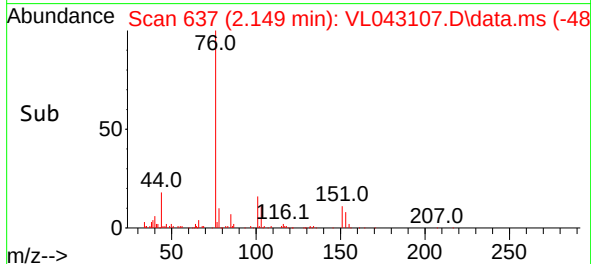
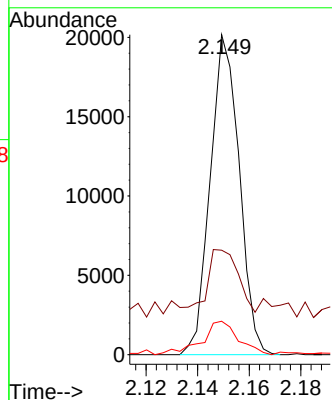
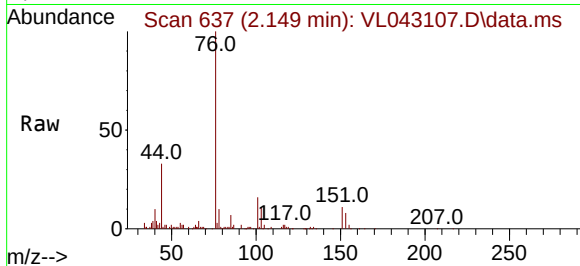
#27
Carbon Disulfide
Concen: 1.092 ppbv
RT: 2.149 min Scan# 61
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 76 Resp: 15760
Ion Ratio Lower Upper
76 100
44 47.9 16.7 25.1
78 14.2 9.3 13.9

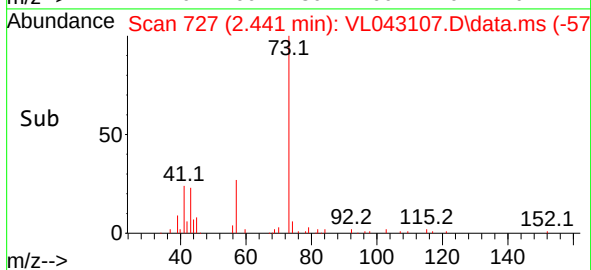
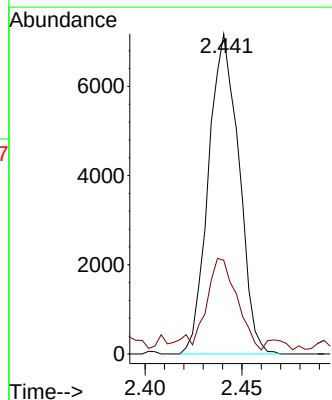
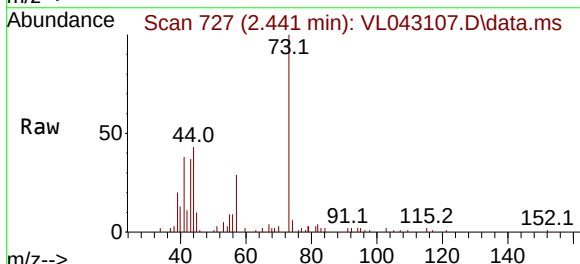
Manual Integrations
APPROVED

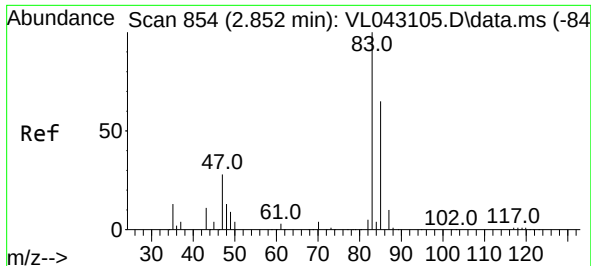
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#28
Methyl tert-Butyl Ether
Concen: 1.095 ppbv
RT: 2.441 min Scan# 727
Delta R.T. -0.000 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 73 Resp: 7847
Ion Ratio Lower Upper
73 100
57 32.3 20.5 30.7





#29

Chloroform

Concen: 1.074 ppbv

RT: 2.845 min Scan# 81

Delta R.T. -0.007 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC001

Tgt Ion: 83 Resp: 2452

Ion Ratio Lower Upper

83 100

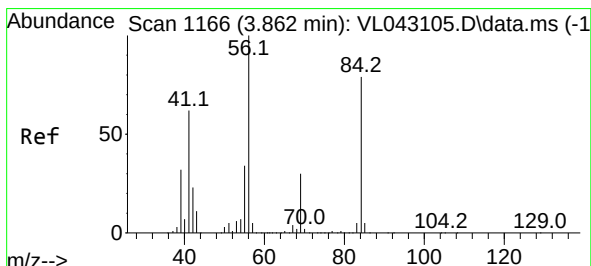
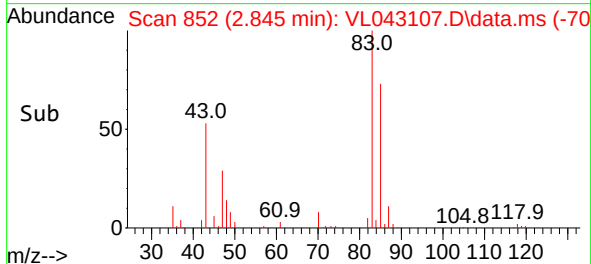
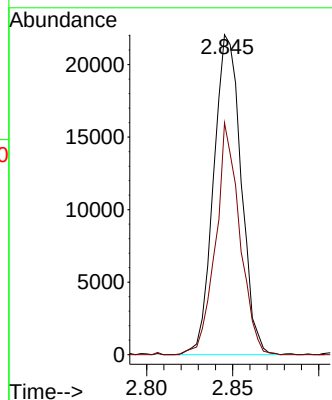
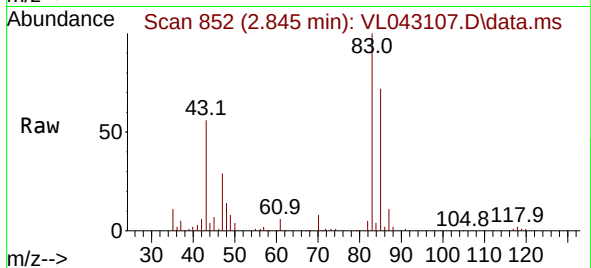
85 72.4 51.8 77.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#30

Cyclohexane

Concen: 1.078 ppbv

RT: 3.855 min Scan# 1164

Delta R.T. -0.007 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

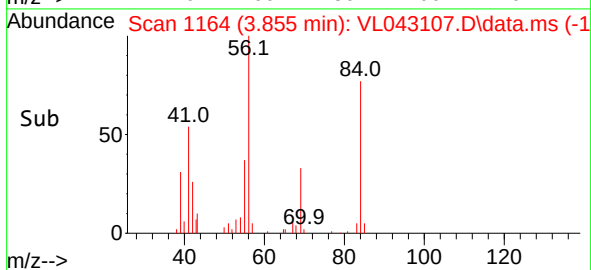
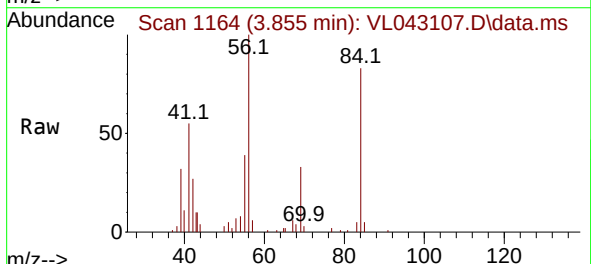
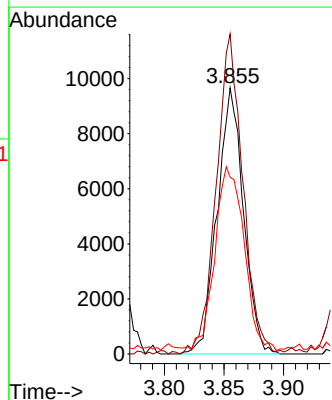
Tgt Ion: 84 Resp: 14819

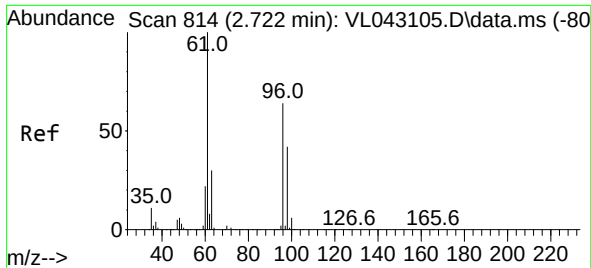
Ion Ratio Lower Upper

84 100

56 122.3 100.9 151.3

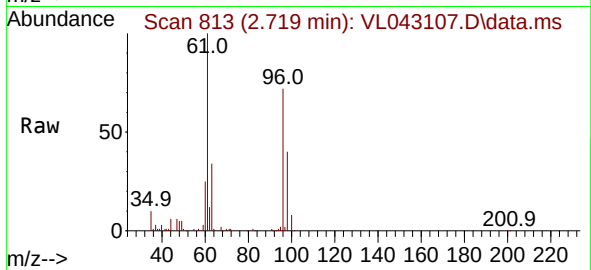
41 78.1 63.8 95.6





#31
 cis-1,2-Dichloroethene
 Concen: 1.084 ppbv
 RT: 2.719 min Scan# 814
 Delta R.T. -0.003 min
 Lab File: VL043107.D
 Acq: 14 Oct 2025 12:01

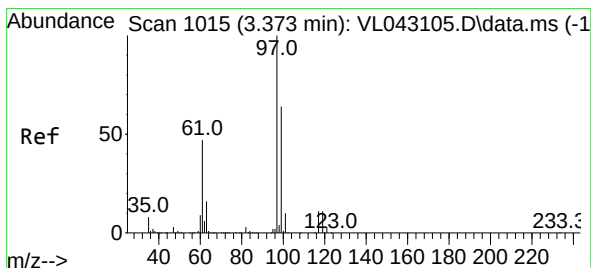
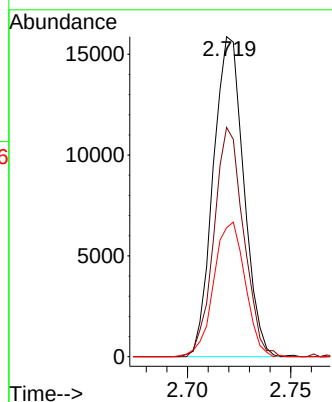
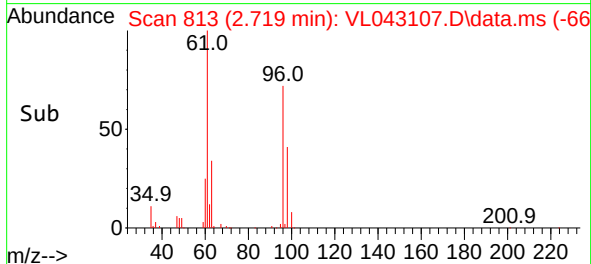
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001



Tgt Ion: 61 Resp: 1631
 Ion Ratio Lower Upper
 61 100
 96 71.6 51.0 76.6
 98 39.9 33.5 50.3

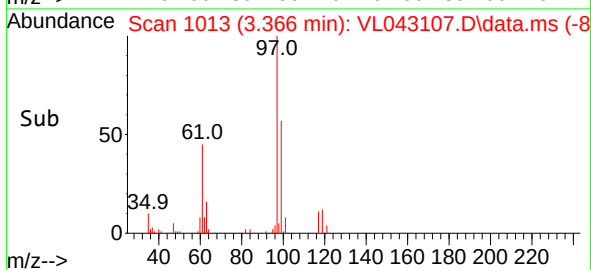
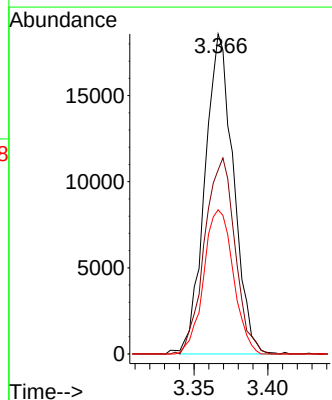
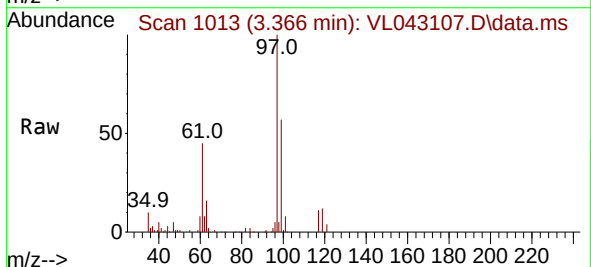
Manual Integrations
 APPROVED

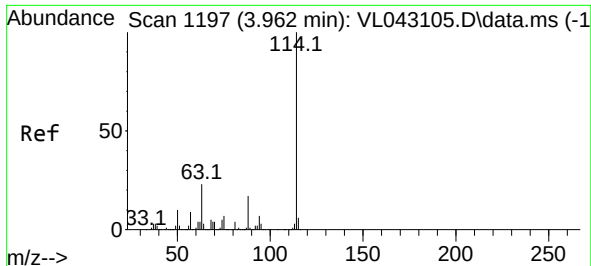
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025



#32
 1,1,1-Trichloroethane
 Concen: 1.049 ppbv
 RT: 3.366 min Scan# 1013
 Delta R.T. -0.007 min
 Lab File: VL043107.D
 Acq: 14 Oct 2025 12:01

Tgt Ion: 97 Resp: 24948
 Ion Ratio Lower Upper
 97 100
 99 65.4 51.3 76.9
 61 46.8 38.4 57.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. -0.007 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion:114 Resp: 336268

Ion Ratio Lower Upper

114 100

63 24.8 19.3 28.9

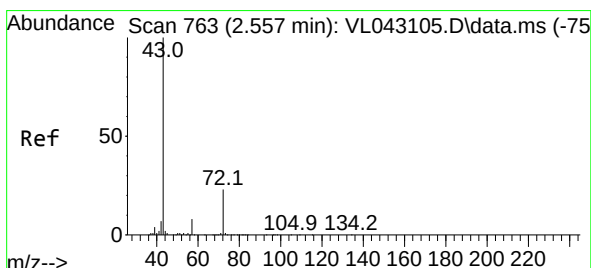
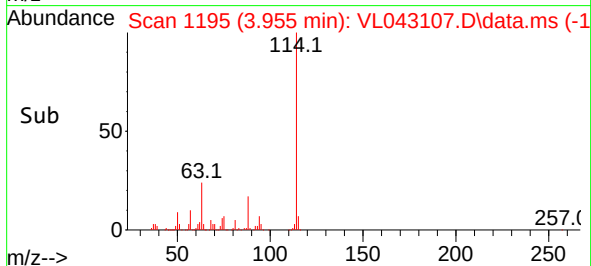
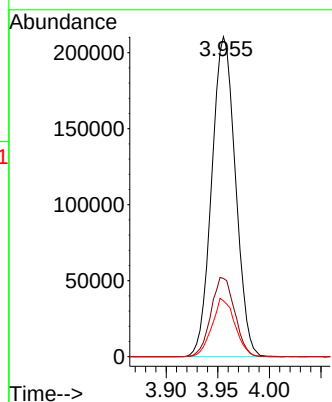
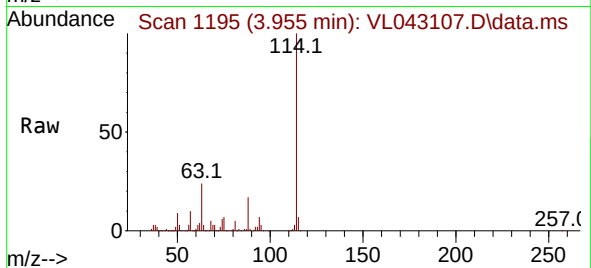
88 17.6 13.9 20.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#34

2-Butanone

Concen: 1.047 ppbv

RT: 2.557 min Scan# 763

Delta R.T. -0.000 min

Lab File: VL043107.D

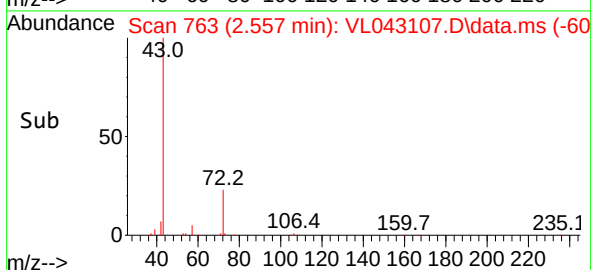
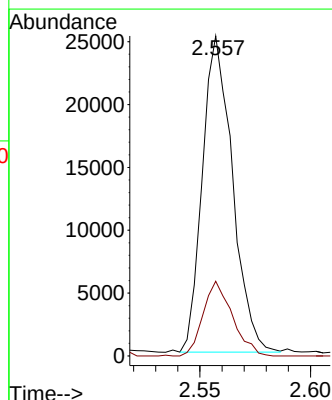
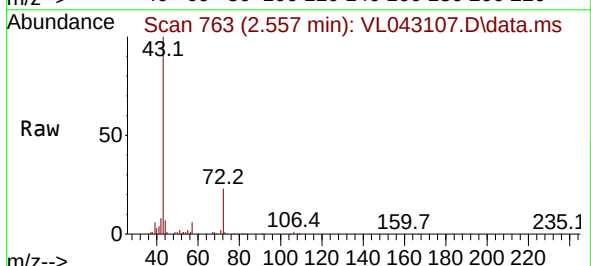
Acq: 14 Oct 2025 12:01

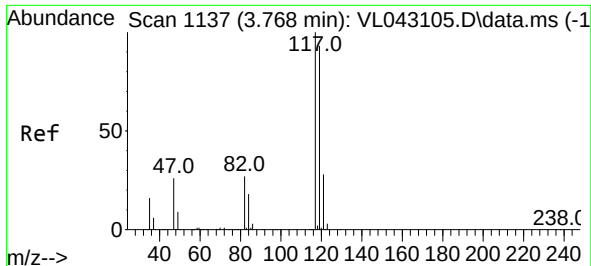
Tgt Ion: 43 Resp: 23811

Ion Ratio Lower Upper

43 100

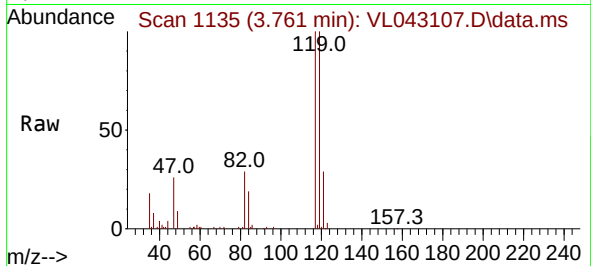
72 23.0 18.4 27.6





#35
Carbon Tetrachloride
Concen: 1.033 ppbv
RT: 3.761 min Scan# 1135
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

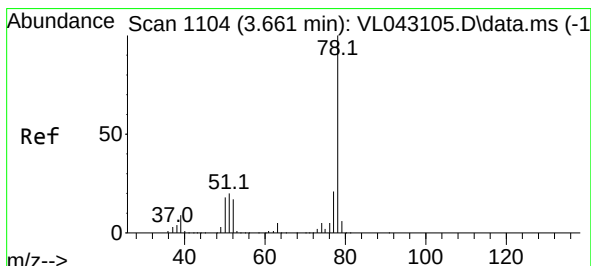
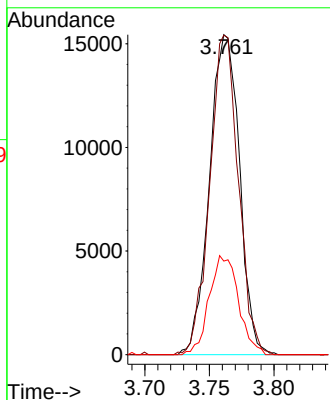
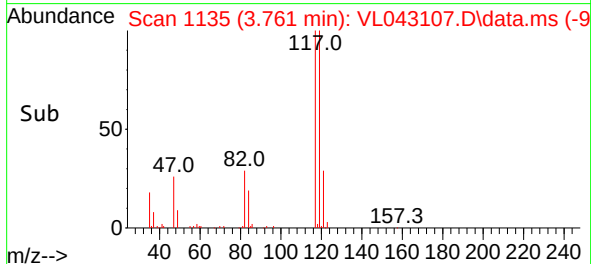
Instrument : MSVOA_L
ClientSampleId : VSTDIC001



Tgt Ion: 117 Resp: 2496
Ion Ratio Lower Upper
117 100
119 99.8 74.1 111.1
121 29.3 22.2 33.2

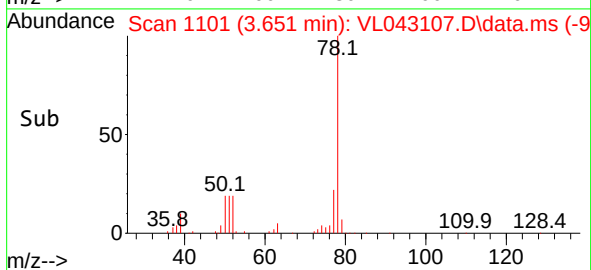
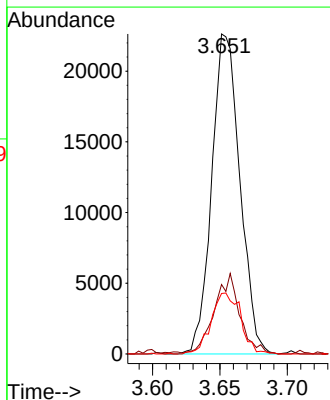
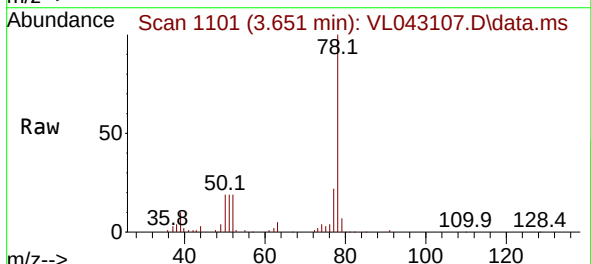
Manual Integrations
APPROVED

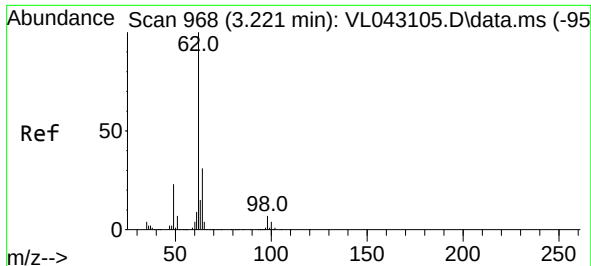
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#36
Benzene
Concen: 1.040 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.010 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

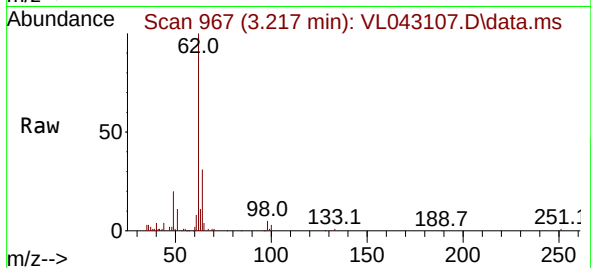
Tgt Ion: 78 Resp: 32940
Ion Ratio Lower Upper
78 100
77 21.7 17.0 25.6
50 18.9 14.6 22.0





#37
1,2-Dichloroethane
Concen: 1.053 ppbv
RT: 3.217 min Scan# 90
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

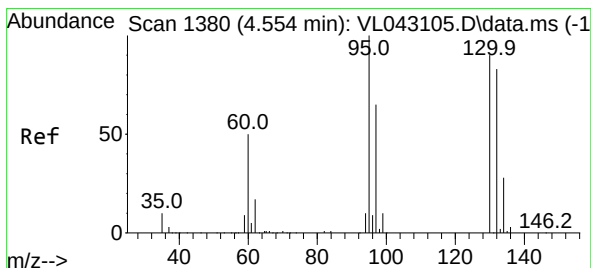
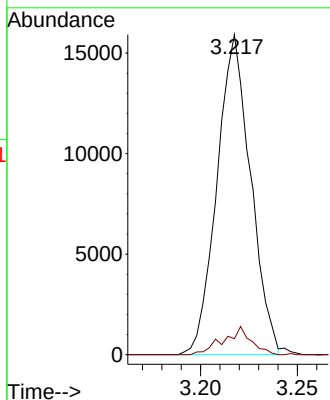
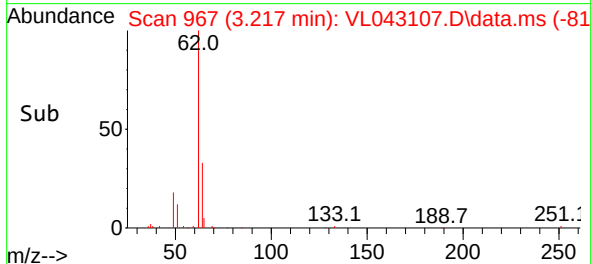
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



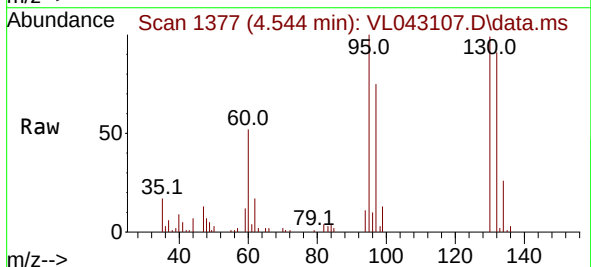
Tgt Ion: 62 Resp: 1921
Ion Ratio Lower Upper
62 100
98 7.2 5.8 8.6

Manual Integrations
APPROVED

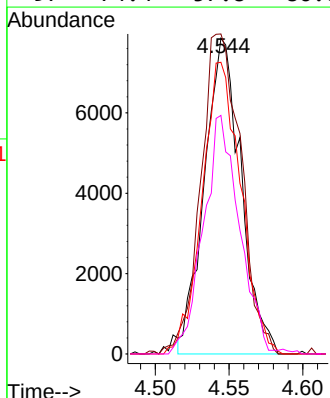
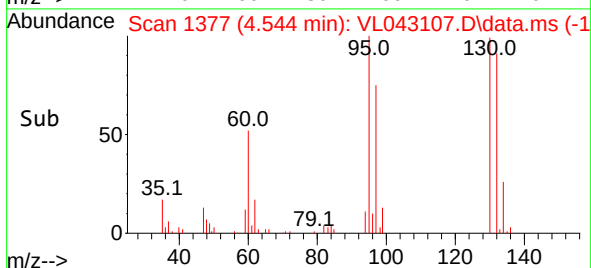
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

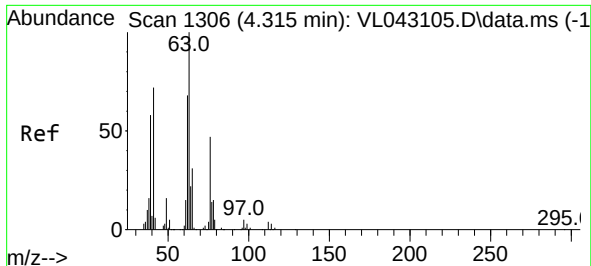


#38
Trichloroethene
Concen: 1.023 ppbv
RT: 4.544 min Scan# 1377
Delta R.T. -0.010 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01



Tgt Ion:130 Resp: 13512
Ion Ratio Lower Upper
130 100
95 101.4 88.6 133.0
132 91.5 73.4 110.0
97 74.4 57.8 86.6





#39

1,2-Dichloropropane

Concen: 1.073 ppbv

RT: 4.311 min Scan# 1306

Delta R.T. -0.003 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC001

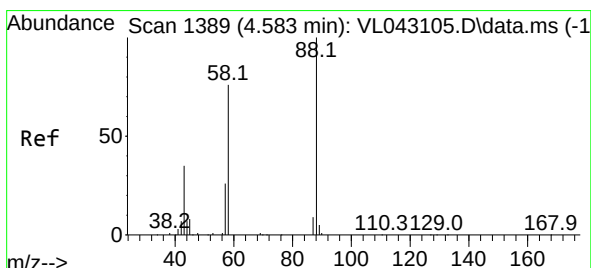
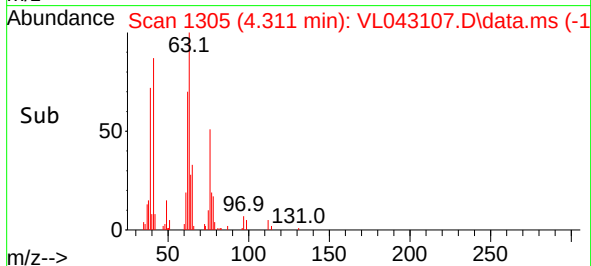
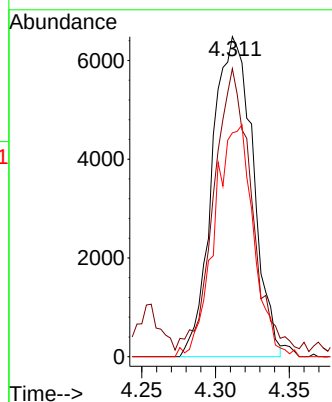
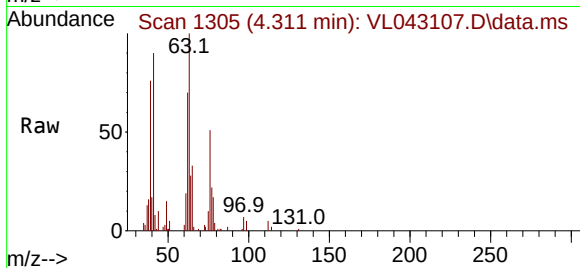
Tgt Ion: 63 Resp: 1243

Ion	Ratio	Lower	Upper
63	100		
41	84.3	58.0	87.0
62	67.2	54.7	82.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#40

1,4-Dioxane

Concen: 1.077 ppbv m

RT: 4.593 min Scan# 1392

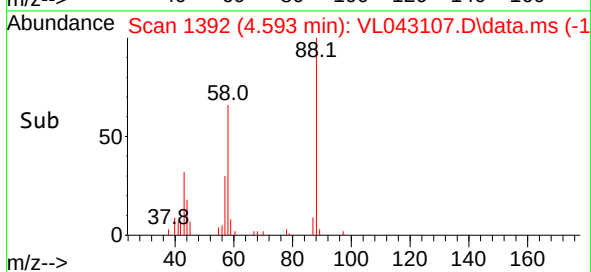
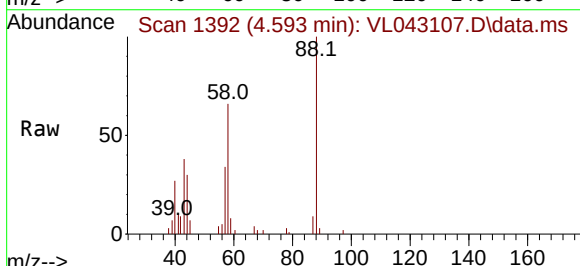
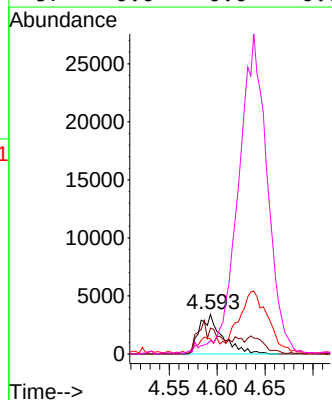
Delta R.T. 0.009 min

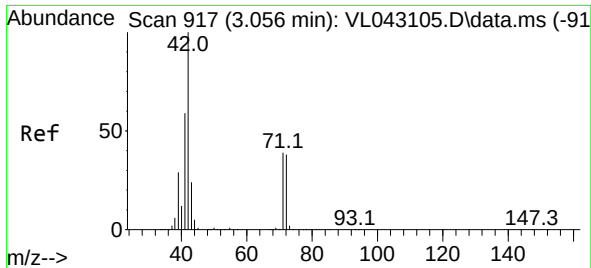
Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

Tgt Ion: 88 Resp: 5579

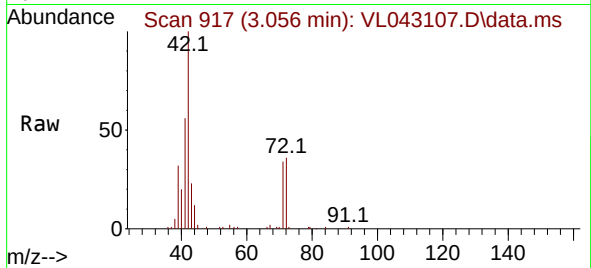
Ion	Ratio	Lower	Upper
88	100		
58	0.0	61.1	91.7#
43	0.0	24.0	36.0#
57	0.0	0.0	0.0





#41
Tetrahydrofuran
Concen: 1.044 ppbv
RT: 3.056 min Scan# 917
Delta R.T. -0.000 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

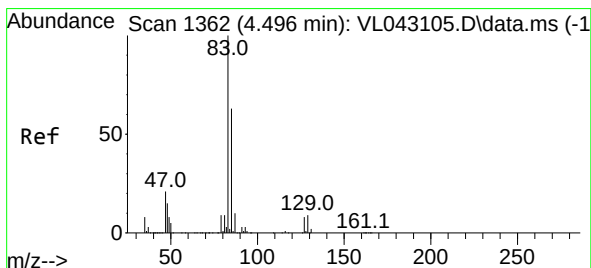
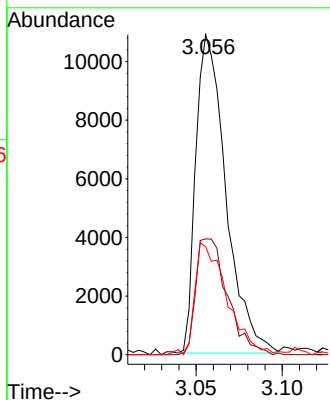
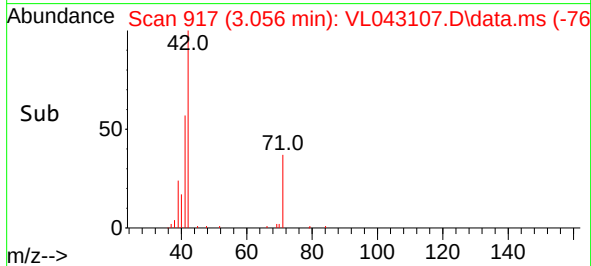
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



Tgt Ion: 42 Resp: 1325
Ion Ratio Lower Upper
42 100
72 38.1 31.3 46.9
71 38.6 30.4 45.6

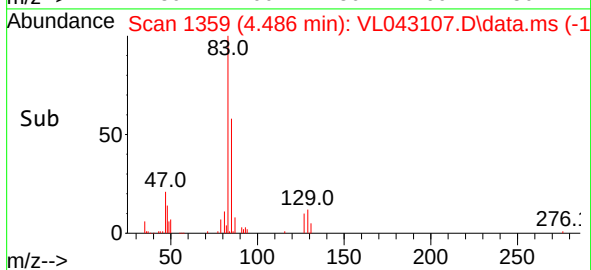
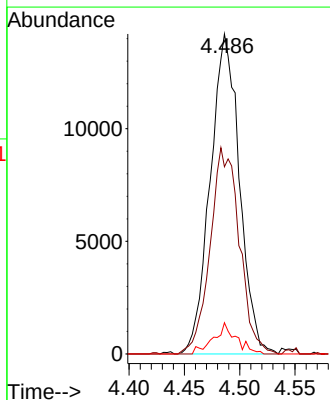
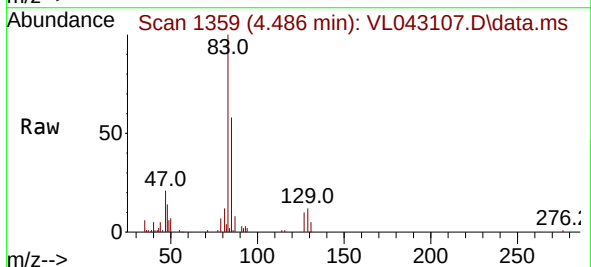
Manual Integrations
APPROVED

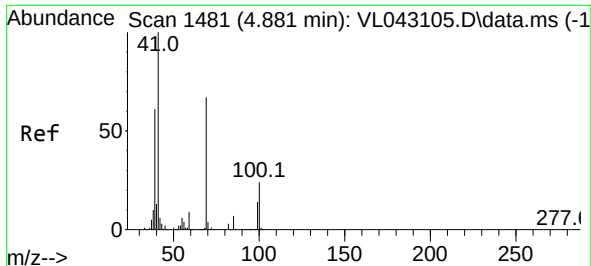
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#42
Bromodichloromethane
Concen: 1.032 ppbv
RT: 4.486 min Scan# 1359
Delta R.T. -0.010 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 83 Resp: 26069
Ion Ratio Lower Upper
83 100
85 58.5 50.6 75.8
127 9.8 6.3 9.5





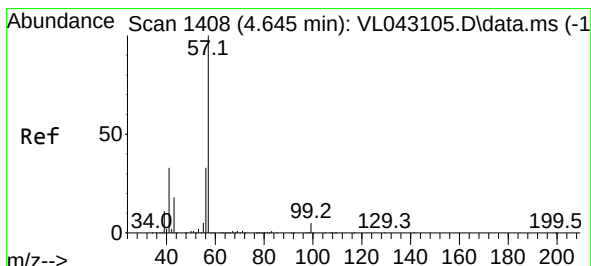
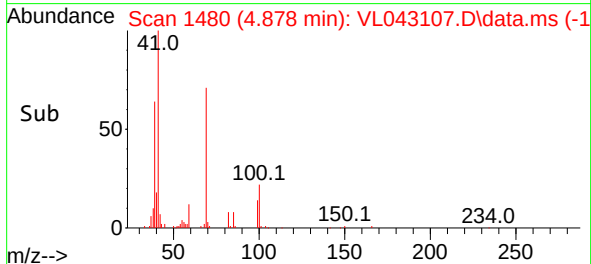
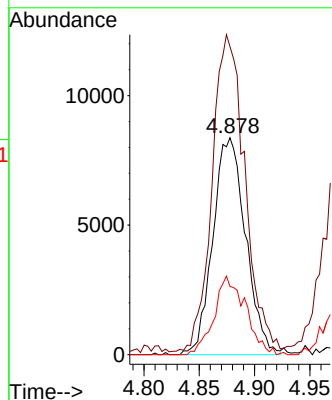
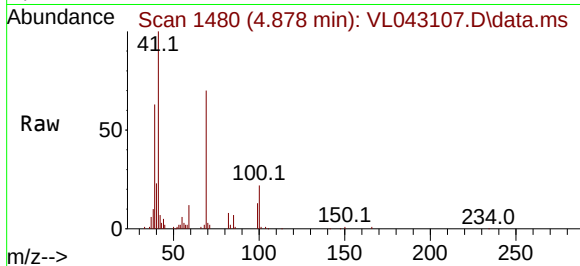
#43
Methyl Methacrylate
Concen: 1.064 ppbv
RT: 4.878 min Scan# 1480
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 69 Resp: 1719
Ion Ratio Lower Upper
69 100
41 145.9 120.5 180.7
100 35.0 29.0 43.4

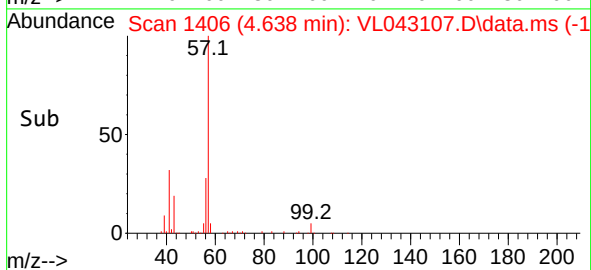
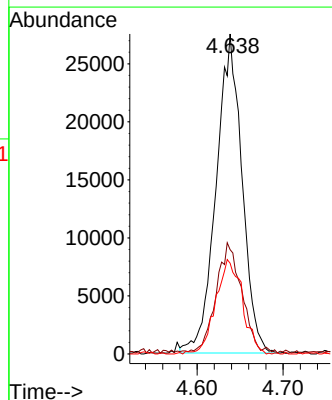
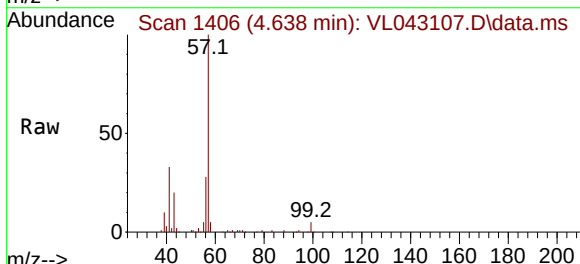
Manual Integrations
APPROVED

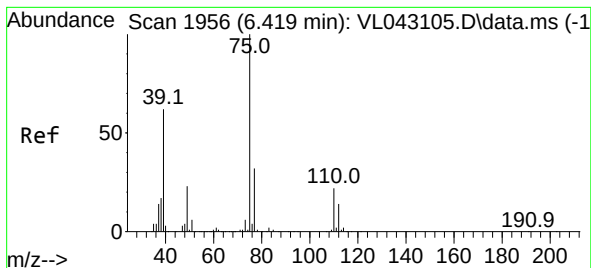
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#44
2,2,4-Trimethylpentane
Concen: 1.084 ppbv
RT: 4.638 min Scan# 1406
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 57 Resp: 57382
Ion Ratio Lower Upper
57 100
41 35.4 26.3 39.5
56 30.7 25.9 38.9





#45

t-1,3-Dichloropropene

Concen: 1.045 ppbv

RT: 6.415 min Scan# 1956

Delta R.T. -0.003 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC001

Tgt Ion: 75 Resp: 16874

Ion Ratio Lower Upper

75 100

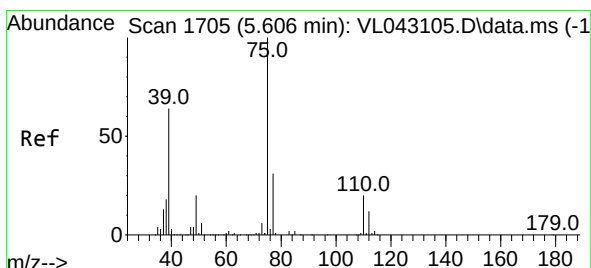
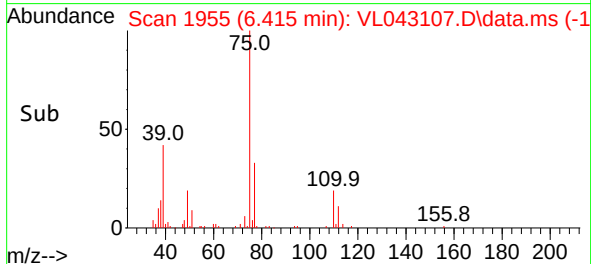
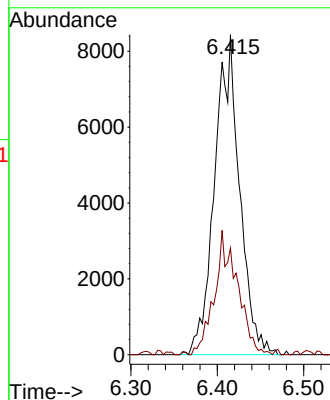
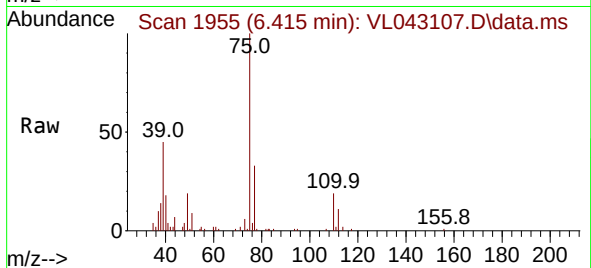
77 33.4 25.4 38.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#46

cis-1,3-Dichloropropene

Concen: 1.029 ppbv

RT: 5.596 min Scan# 1702

Delta R.T. -0.010 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

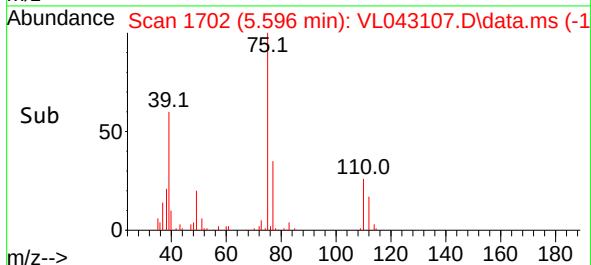
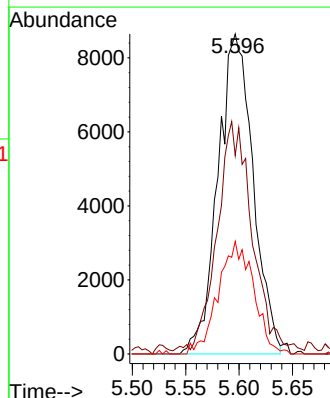
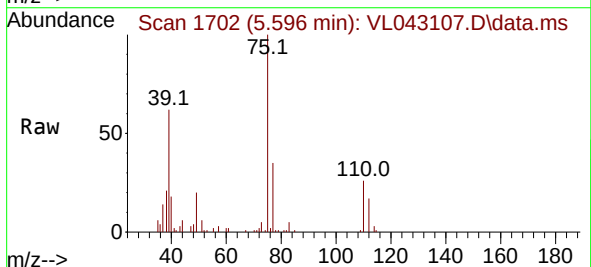
Tgt Ion: 75 Resp: 19830

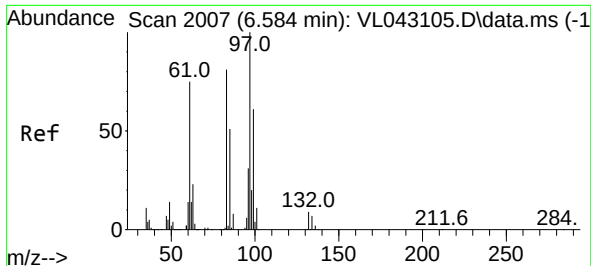
Ion Ratio Lower Upper

75 100

39 59.6 51.0 76.6

77 35.1 25.0 37.4





#47

1,1,2-Trichloroethane

Concen: 1.030 ppbv

RT: 6.577 min Scan# 2007

Delta R.T. -0.007 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

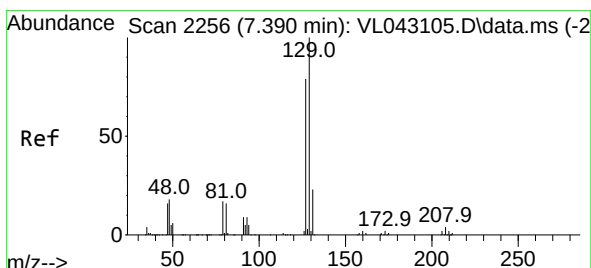
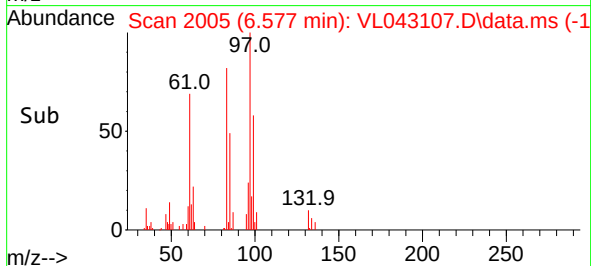
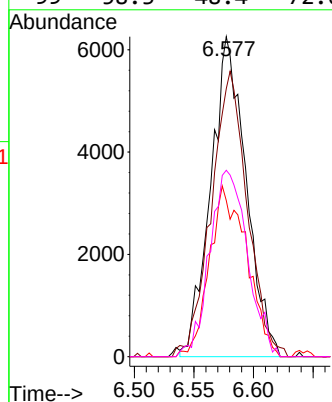
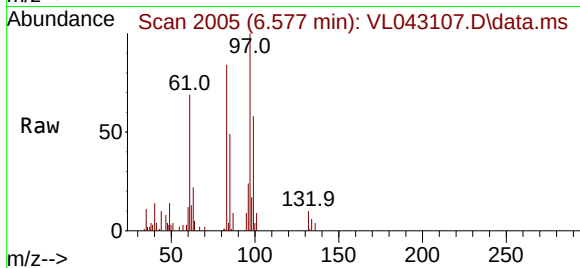
Tgt Ion: 97 Resp: 12870

Ion	Ratio	Lower	Upper
97	100		
83	80.9	64.6	96.8
85	48.8	40.6	60.8
99	58.3	48.4	72.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#48

Dibromochloromethane

Concen: 1.046 ppbv

RT: 7.383 min Scan# 2254

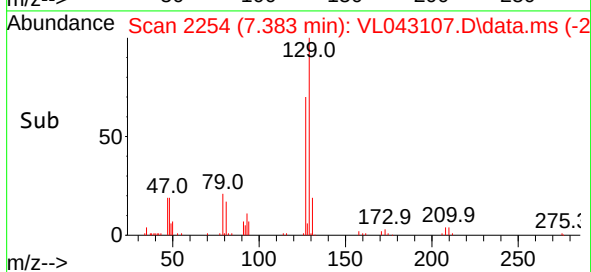
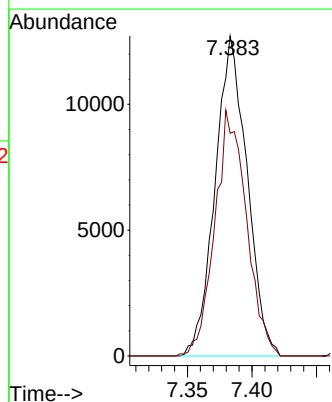
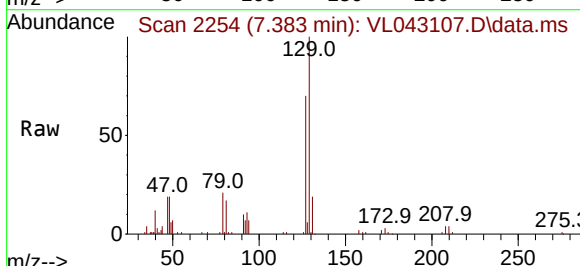
Delta R.T. -0.007 min

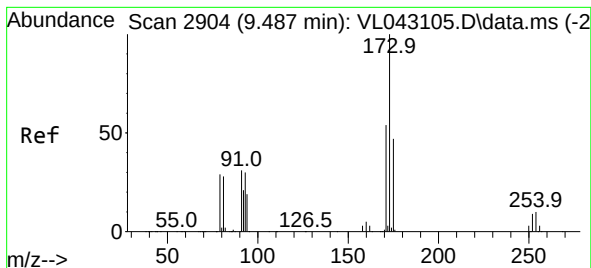
Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

Tgt Ion:129 Resp: 21874

Ion	Ratio	Lower	Upper
129	100		
127	76.1	39.3	117.9





#49

Bromoform

Concen: 1.019 ppbv

RT: 9.480 min Scan# 2904

Delta R.T. -0.007 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

Instrument :

MSVOA_L

ClientSampleId :

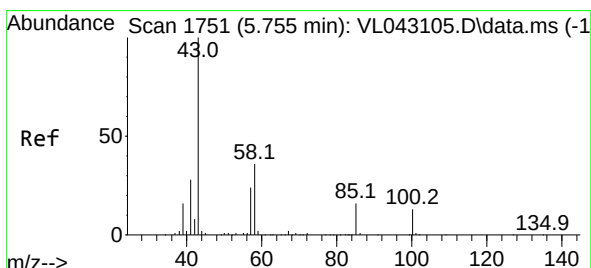
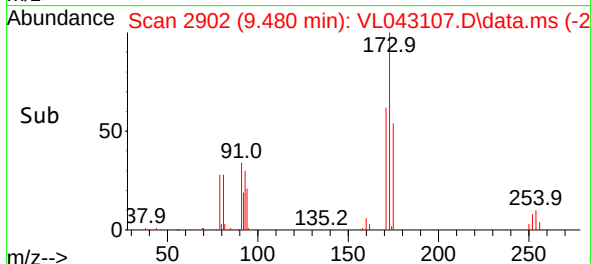
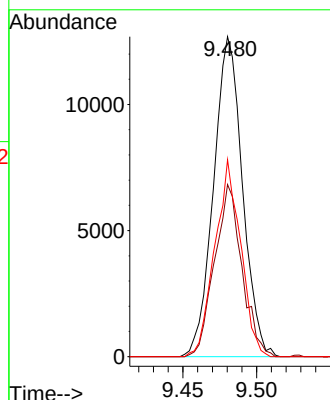
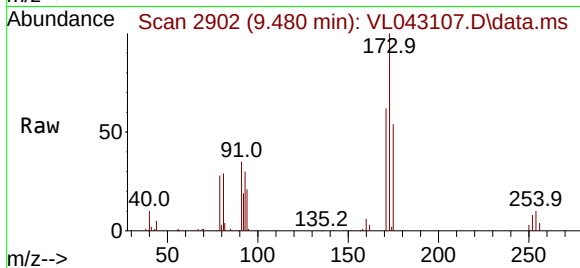
VSTDIC001

Tgt Ion:173 Resp: 17320
 Ion Ratio Lower Upper
 173 100
 175 50.9 38.8 58.2
 171 55.0 41.7 62.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025



#50

4-Methyl-2-Pentanone

Concen: 1.061 ppbv m

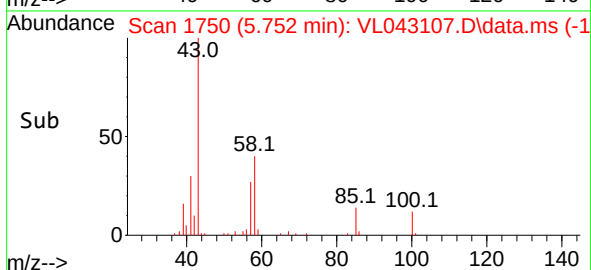
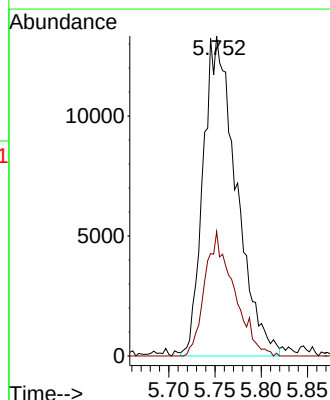
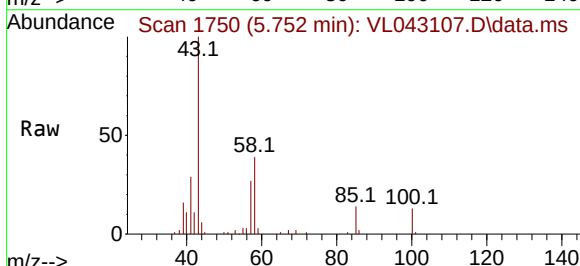
RT: 5.752 min Scan# 1750

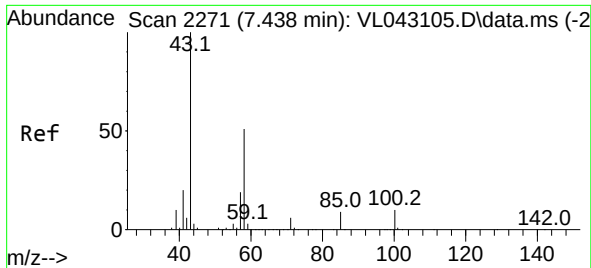
Delta R.T. -0.003 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

Tgt Ion: 43 Resp: 33269
 Ion Ratio Lower Upper
 43 100
 58 0.0 29.1 43.7#





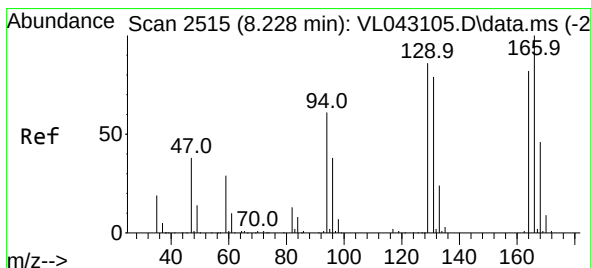
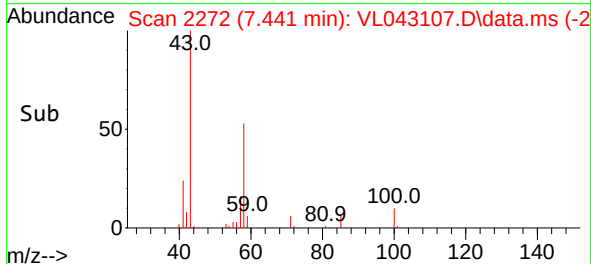
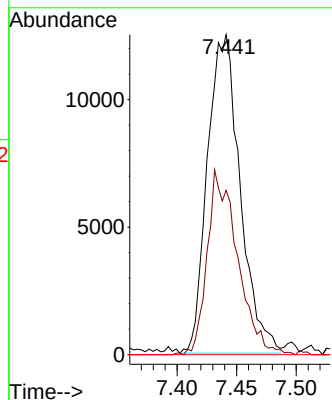
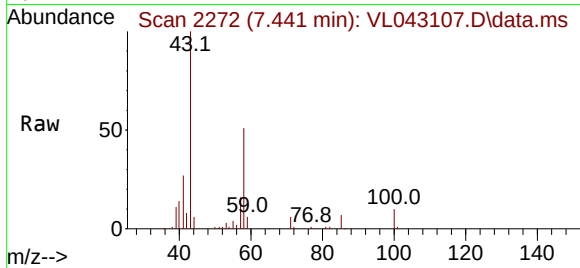
#51
2-Hexanone
Concen: 1.018 ppbv
RT: 7.441 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 2381
Ion Ratio Lower Upper
43 100
58 53.7 40.4 60.6
98 0.0 0.1 0.1

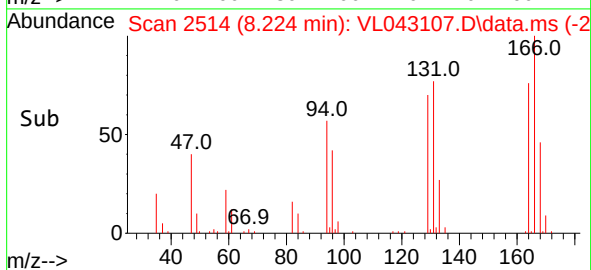
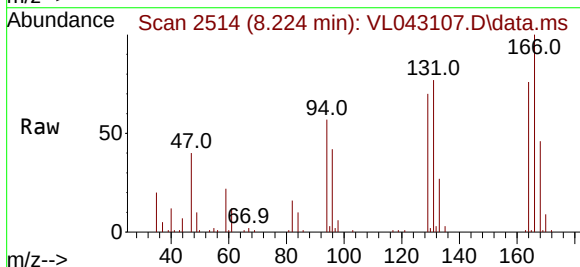
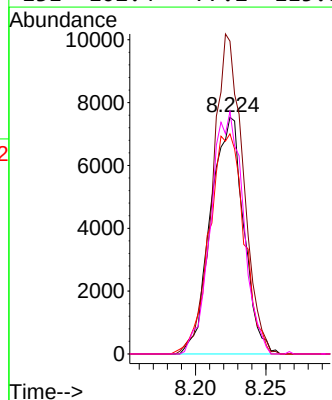
Manual Integrations
APPROVED

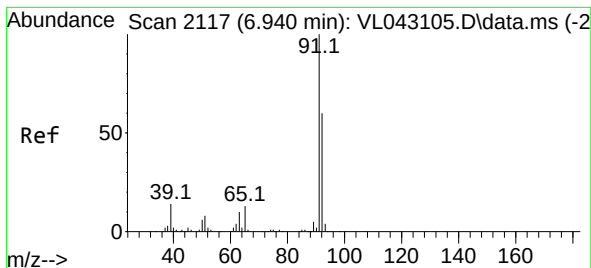
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#52
Tetrachloroethene
Concen: 1.079 ppbv
RT: 8.224 min Scan# 2514
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion:164 Resp: 12319
Ion Ratio Lower Upper
164 100
166 132.1 97.6 146.4
129 93.0 84.5 126.7
131 102.4 77.2 115.8





#53

Toluene

Concen: 1.040 ppbv

RT: 6.930 min Scan# 2114

Delta R.T. -0.010 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC001

Tgt Ion: 91 Resp: 39079

Ion Ratio Lower Upper

91 100

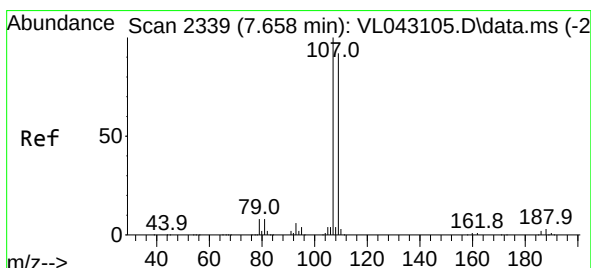
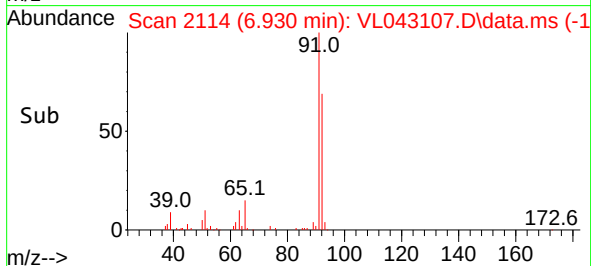
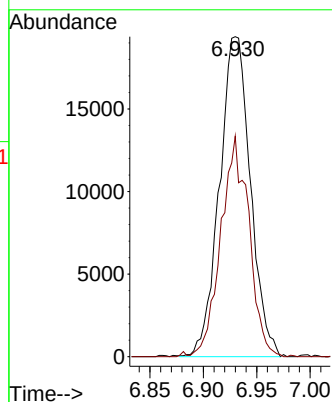
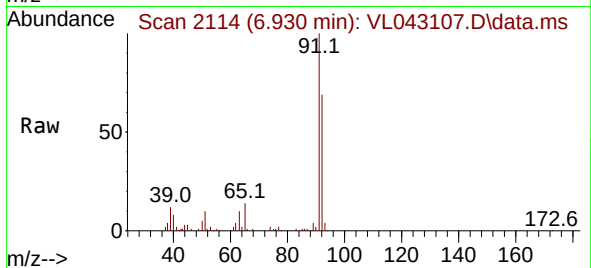
92 62.8 48.8 73.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#54

1,2-Dibromoethane

Concen: 0.999 ppbv

RT: 7.652 min Scan# 2337

Delta R.T. -0.007 min

Lab File: VL043107.D

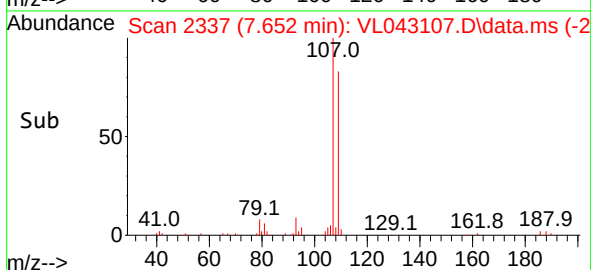
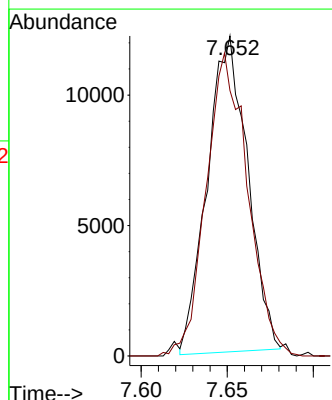
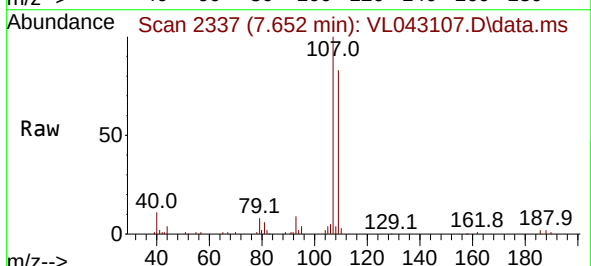
Acq: 14 Oct 2025 12:01

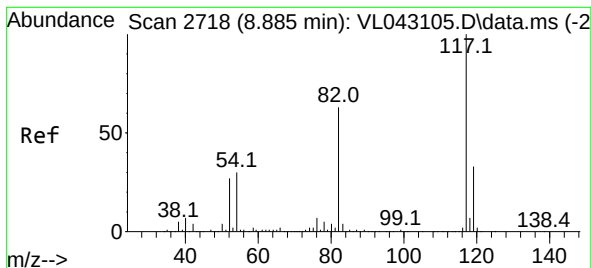
Tgt Ion:107 Resp: 19711

Ion Ratio Lower Upper

107 100

109 80.7 73.4 110.2





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.878 min Scan# 2716

Delta R.T. -0.007 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

Instrument :

MSVOA_L

ClientSampleId :

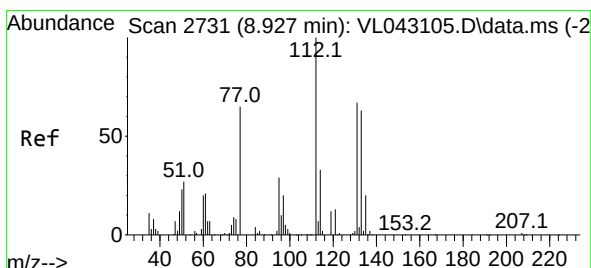
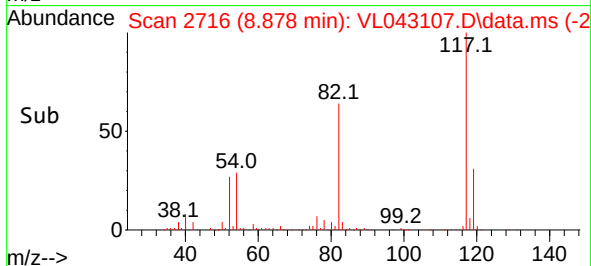
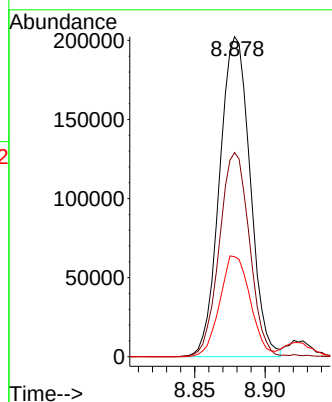
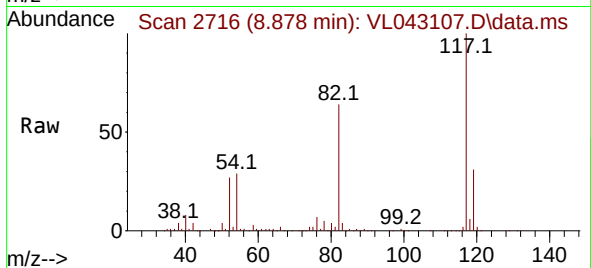
VSTDIC001

Tgt Ion:117	Resp:	305409
Ion Ratio	Lower	Upper
117	100	
82	63.4	53.8 80.8
119	32.3	25.4 38.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#56

1,1,1,2-Tetrachloroethane

Concen: 1.053 ppbv

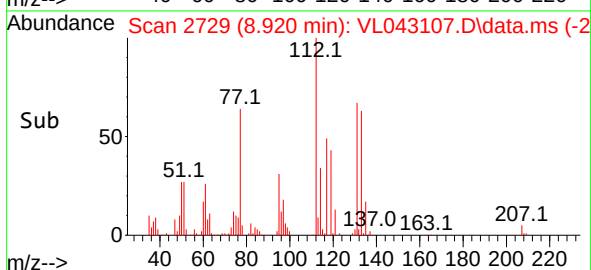
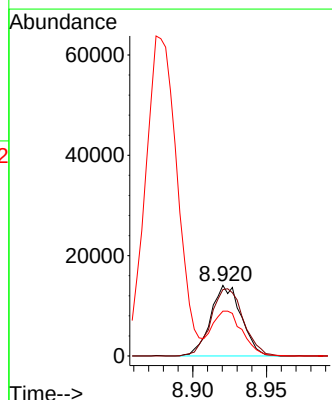
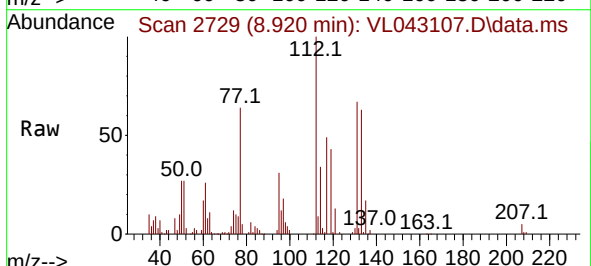
RT: 8.920 min Scan# 2729

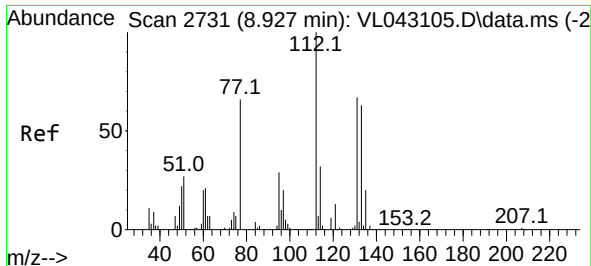
Delta R.T. -0.007 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

Tgt Ion:131	Resp:	20279
Ion Ratio	Lower	Upper
131	100	
133	100.9	75.7 113.5
119	62.1	50.6 76.0





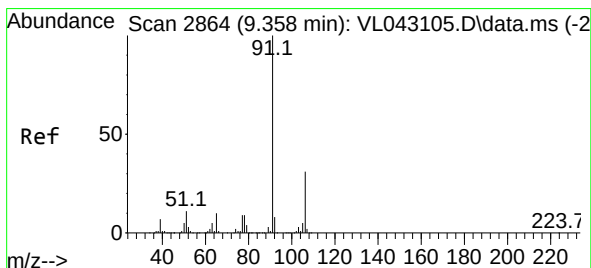
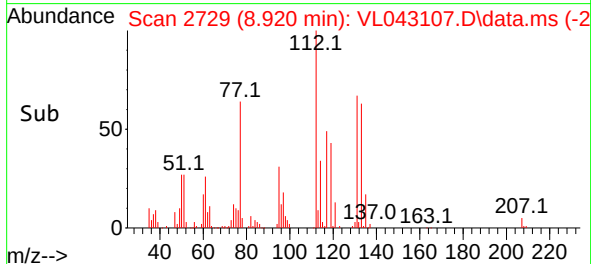
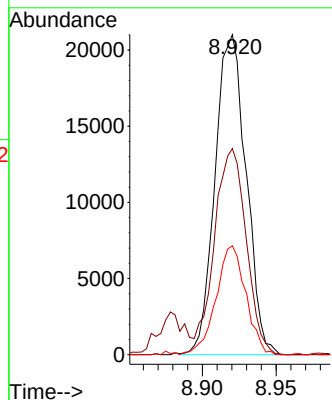
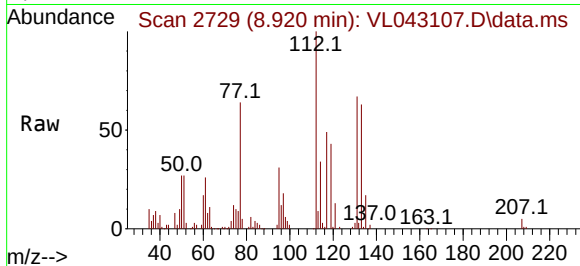
#57
Chlorobenzene
Concen: 1.079 ppbv
RT: 8.920 min Scan# 2731
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion:112 Resp: 30824
Ion Ratio Lower Upper
112 100
77 64.2 53.3 79.9
114 34.1 29.3 35.8

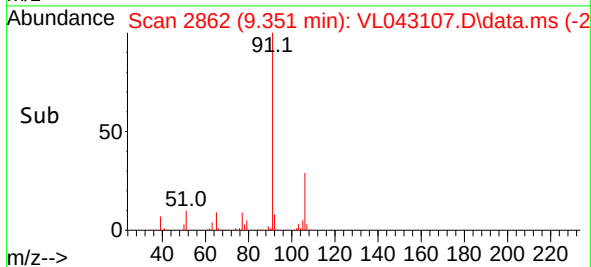
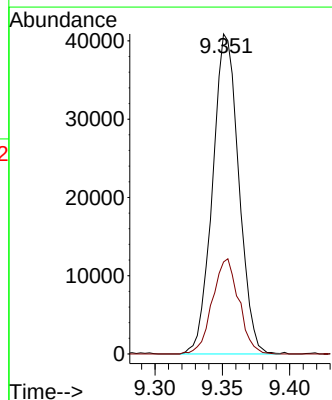
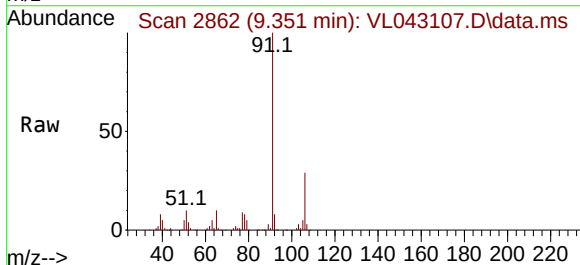
Manual Integrations
APPROVED

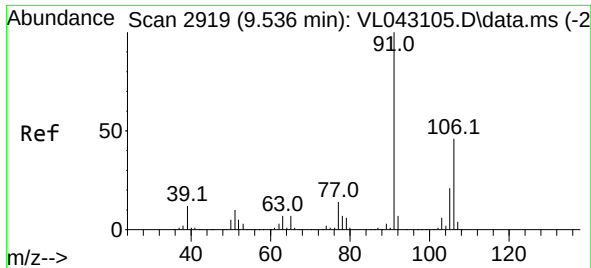
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#58
Ethyl Benzene
Concen: 1.049 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 91 Resp: 55420
Ion Ratio Lower Upper
91 100
106 28.7 24.8 37.2





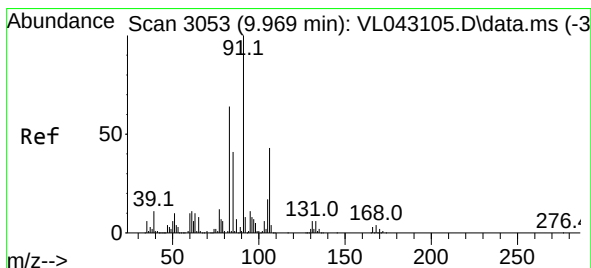
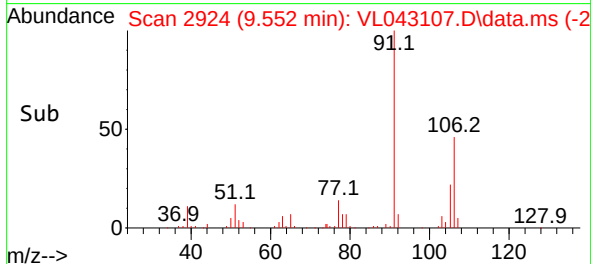
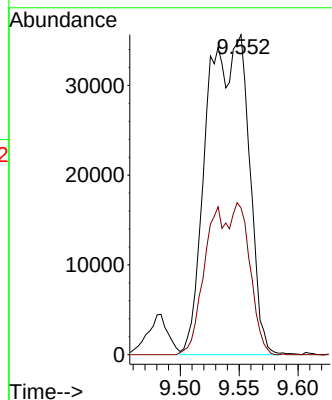
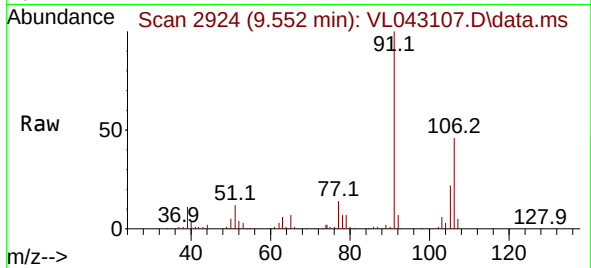
#59
m/p-Xylene
Concen: 2.127 ppbv m
RT: 9.552 min Scan# 2919
Delta R.T. 0.016 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 91 Resp: 88998
Ion Ratio Lower Upper
91 100
106 0.0 38.0 57.0

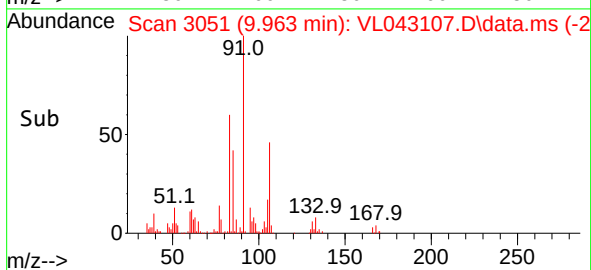
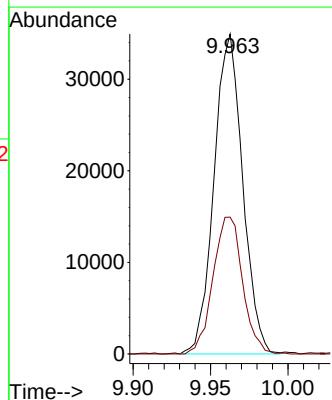
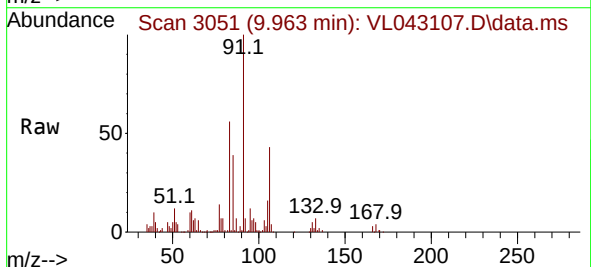
Manual Integrations
APPROVED

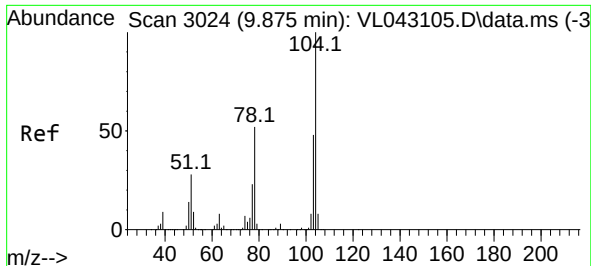
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#60
o-Xylene
Concen: 1.088 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

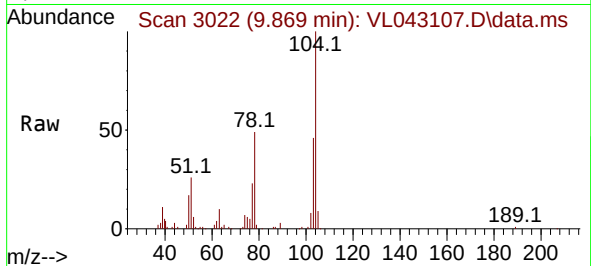
Tgt Ion: 91 Resp: 44925
Ion Ratio Lower Upper
91 100
106 44.1 21.9 65.8





#61
Styrene
Concen: 1.063 ppbv
RT: 9.869 min Scan# 3024
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

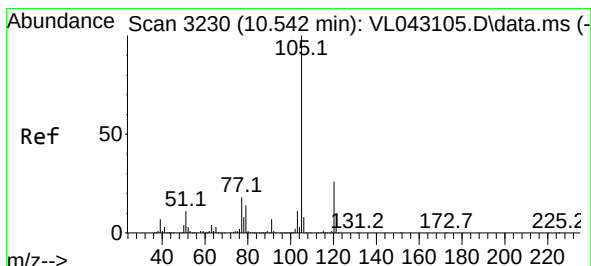
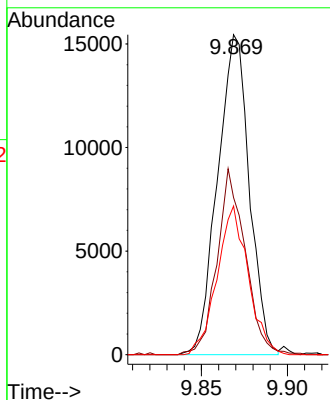
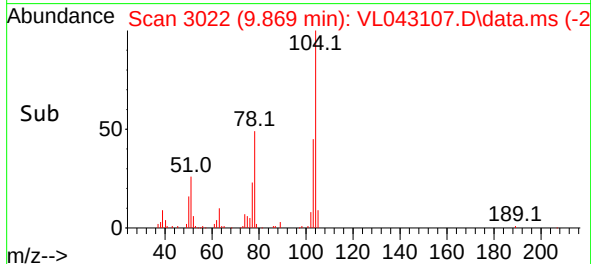
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



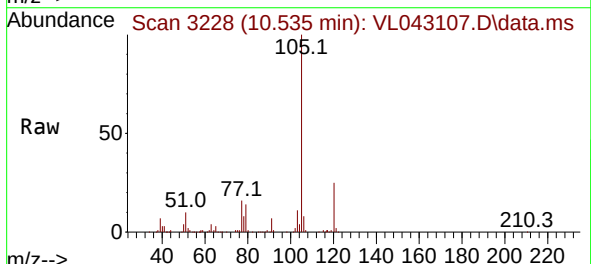
Tgt Ion:104 Resp: 19809
Ion Ratio Lower Upper
104 100
78 51.8 40.2 60.2
103 45.5 36.9 55.3

Manual Integrations
APPROVED

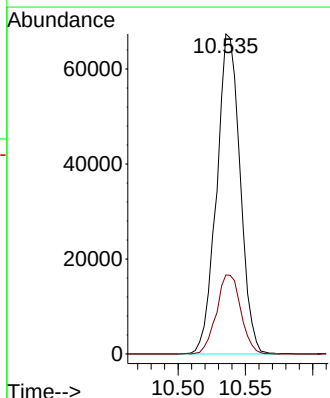
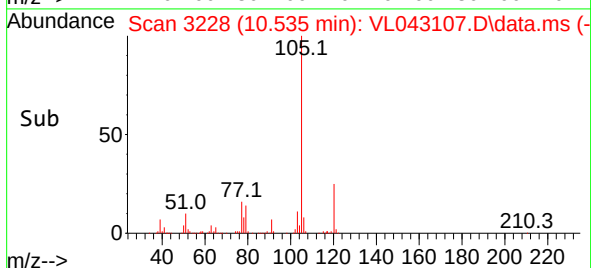
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

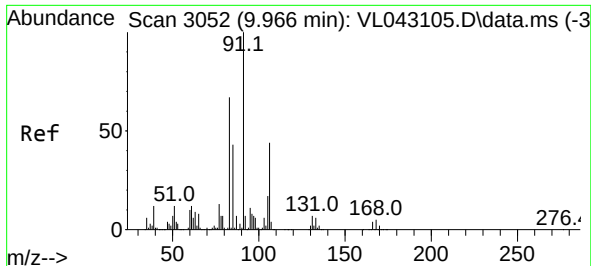


#62
Isopropylbenzene
Concen: 1.093 ppbv
RT: 10.535 min Scan# 3228
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01



Tgt Ion:105 Resp: 81579
Ion Ratio Lower Upper
105 100
120 25.6 20.2 30.4





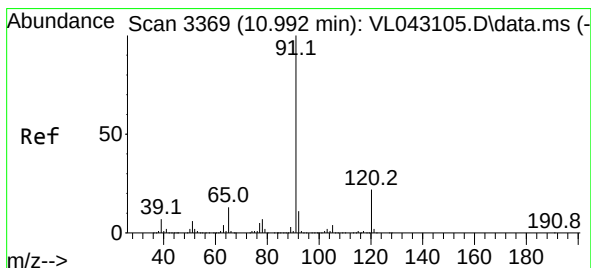
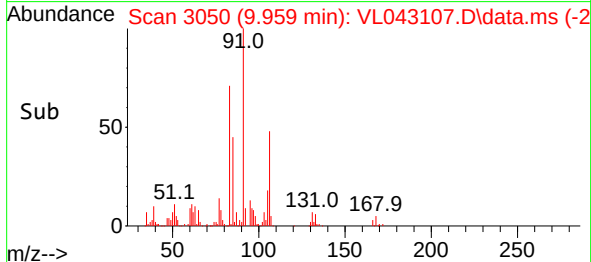
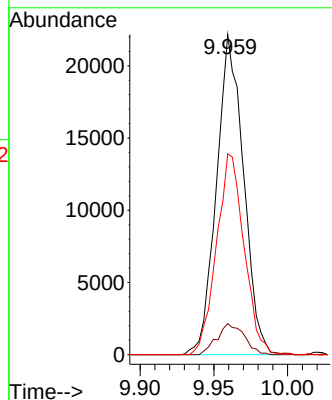
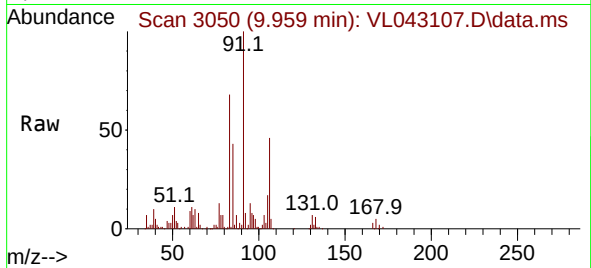
#63
1,1,2,2-Tetrachloroethane
Concen: 1.021 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Instrument : MSVOA_L
ClientSampleId : VSTDIC001

Tgt Ion: 83 Resp: 28230
Ion Ratio Lower Upper
83 100
131 9.8 4.8 14.3
85 64.3 32.0 96.0

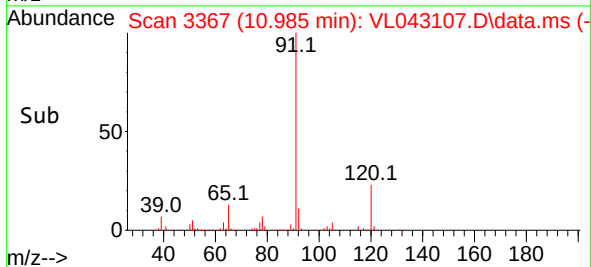
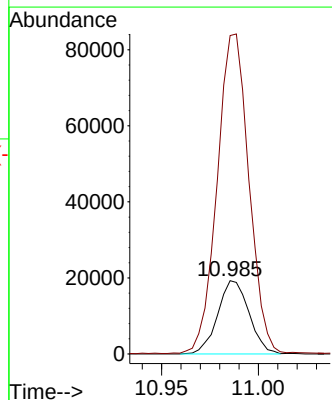
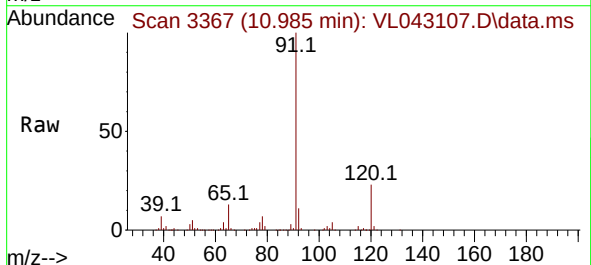
Manual Integrations
APPROVED

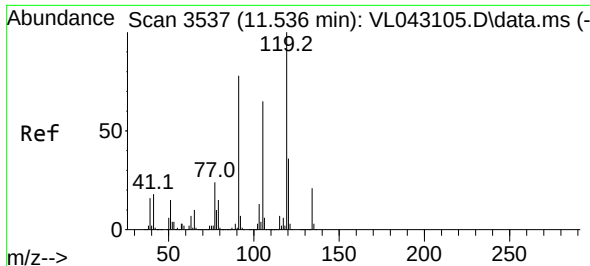
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#64
n-propylbenzene
Concen: 1.098 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

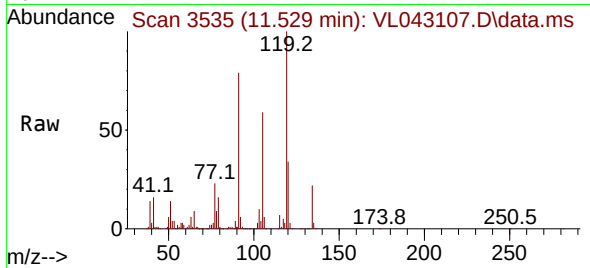
Tgt Ion:120 Resp: 21685
Ion Ratio Lower Upper
120 100
91 446.5 361.6 542.4





#65
tert-Butylbenzene
Concen: 1.105 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

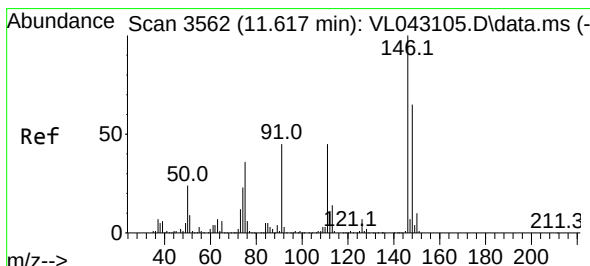
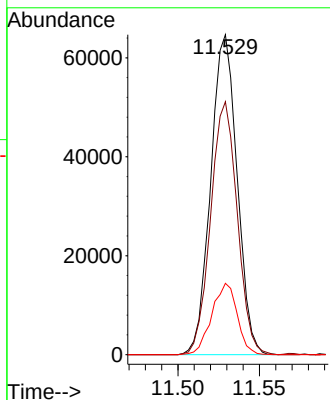
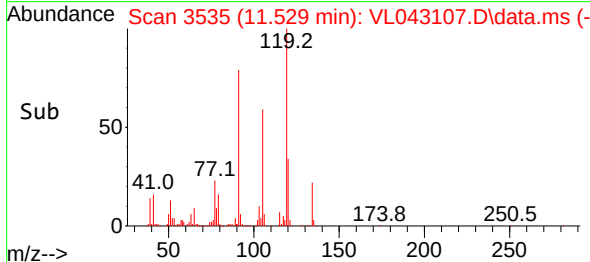
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



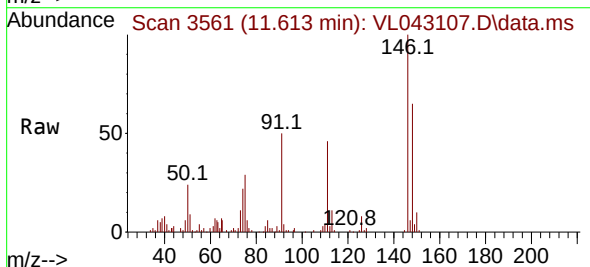
Tgt Ion: 119 Resp: 7278
Ion Ratio Lower Upper
119 100
91 79.8 63.4 95.0
134 21.5 17.3 25.9

Manual Integrations
APPROVED

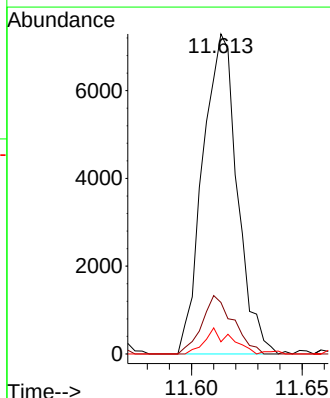
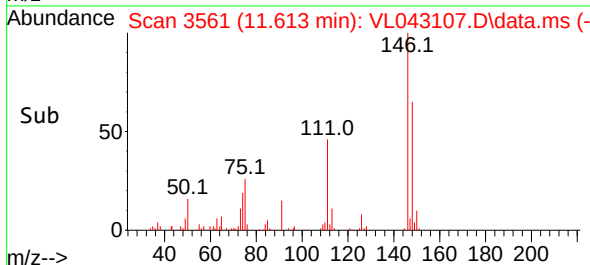
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

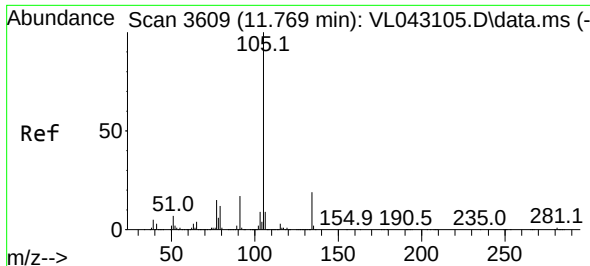


#66
Benzyl Chloride
Concen: 1.076 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01



Tgt Ion: 91 Resp: 7918
Ion Ratio Lower Upper
91 100
126 16.6 14.6 22.0
128 6.6 4.6 6.8





#67

sec-Butylbenzene

Concen: 1.103 ppbv

RT: 11.765 min Scan# 3609

Delta R.T. -0.003 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion:105 Resp: 103152

Ion Ratio Lower Upper

105 100

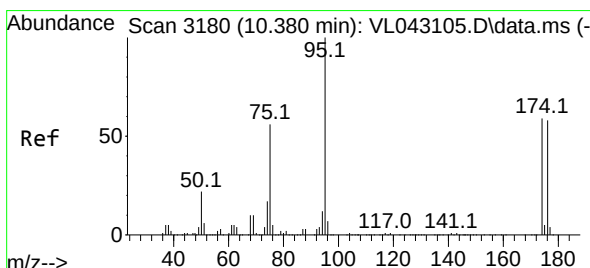
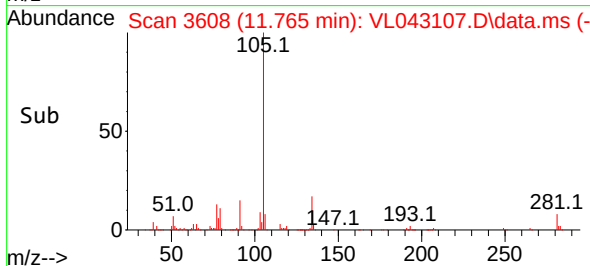
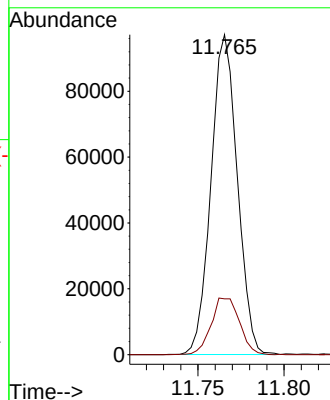
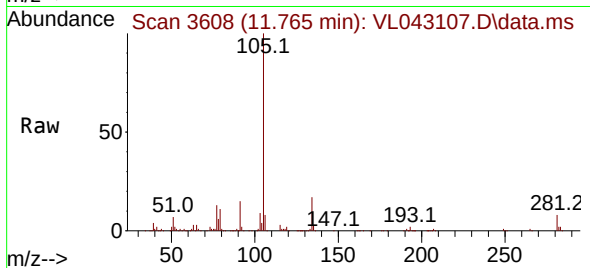
134 19.2 15.5 23.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#68

1-Bromo-4-Fluorobenzene

Concen: 9.912 ppbv

RT: 10.374 min Scan# 3178

Delta R.T. -0.007 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

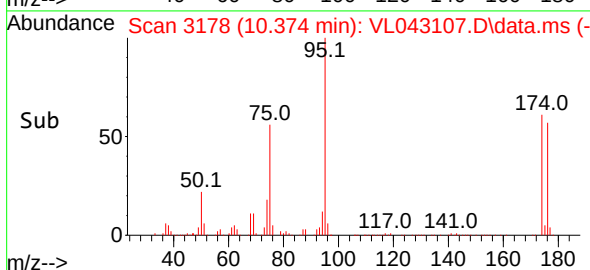
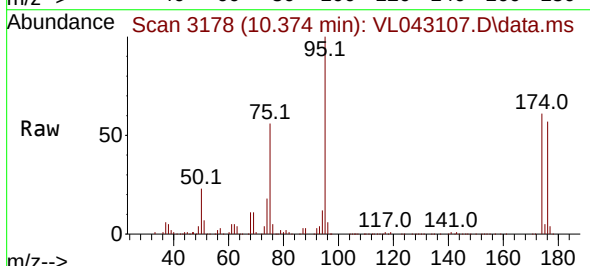
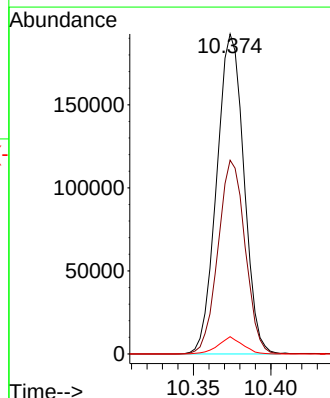
Tgt Ion: 95 Resp: 235307

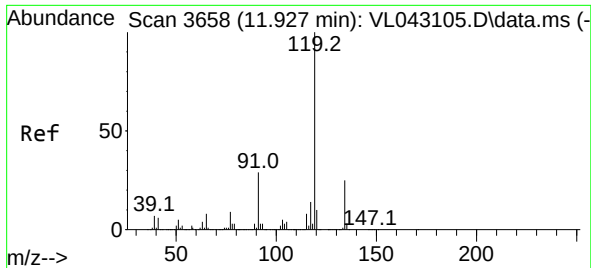
Ion Ratio Lower Upper

95 100

174 60.3 48.3 72.5

175 4.8 3.8 5.8





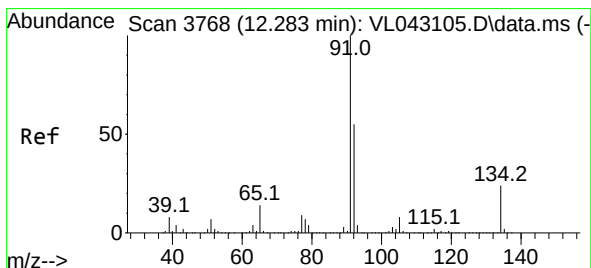
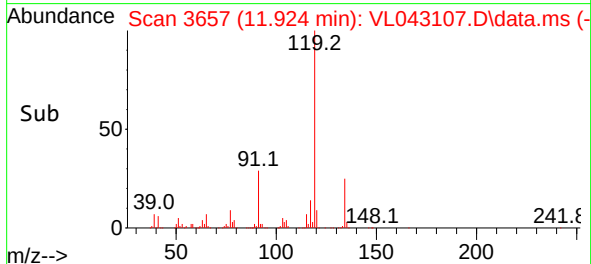
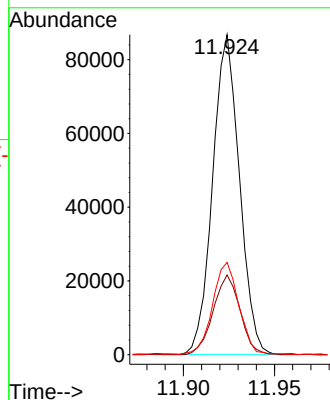
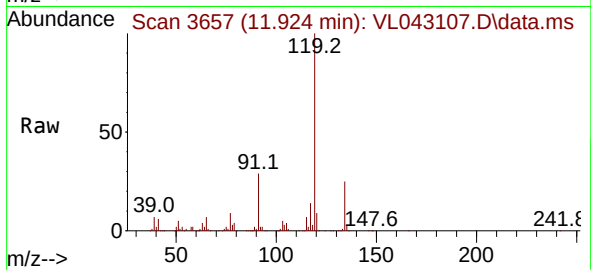
#69
p-Isopropyltoluene
Concen: 1.113 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 119 Resp: 8844
Ion Ratio Lower Upper
119 100
134 25.1 20.3 30.5
91 28.9 22.6 33.8

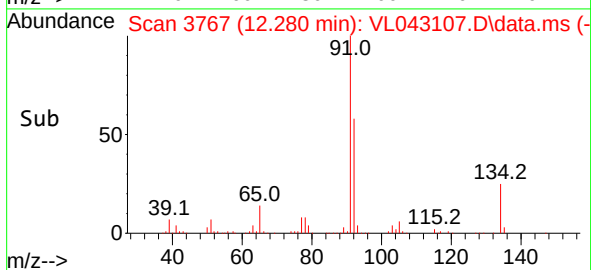
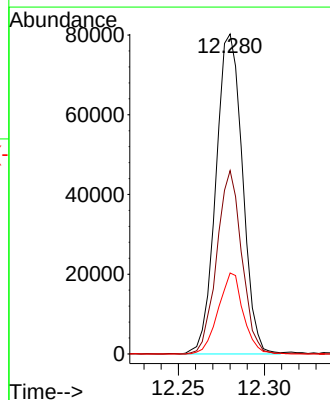
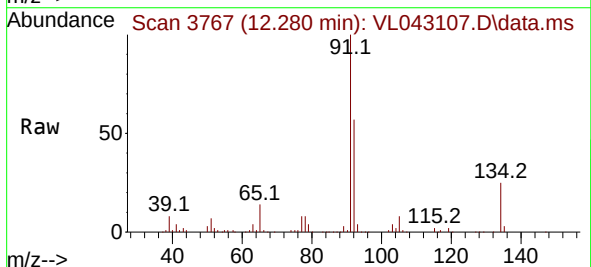
Manual Integrations
APPROVED

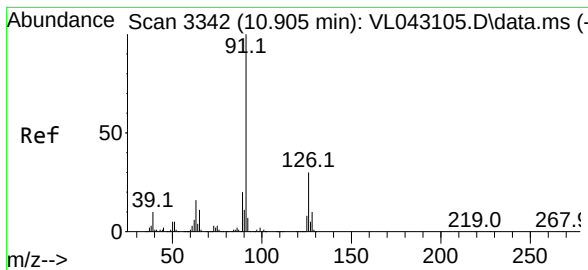
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#70
n-Butylbenzene
Concen: 1.100 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 91 Resp: 86120
Ion Ratio Lower Upper
91 100
92 54.1 44.5 66.7
134 23.9 19.3 28.9





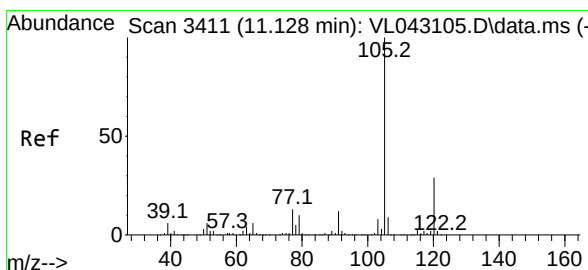
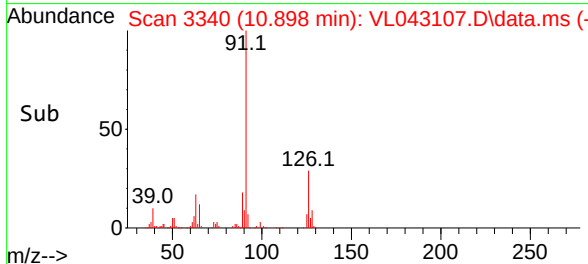
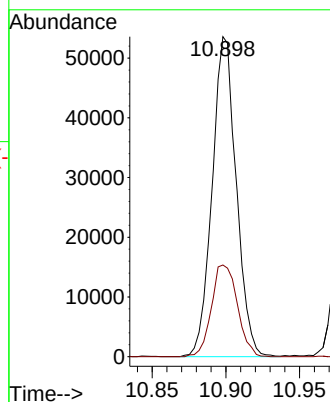
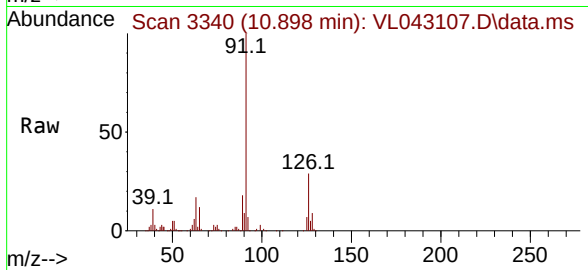
#71
2-Chlorotoluene
Concen: 1.072 ppbv
RT: 10.898 min Scan# 3109
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 91 Resp: 60994
Ion Ratio Lower Upper
91 100
126 30.8 12.0 48.0

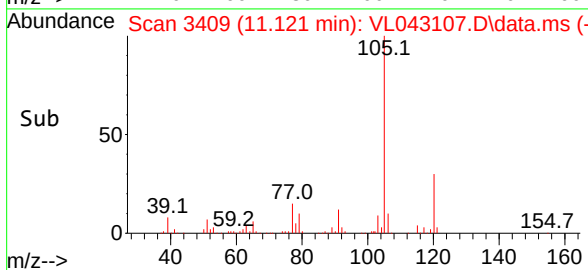
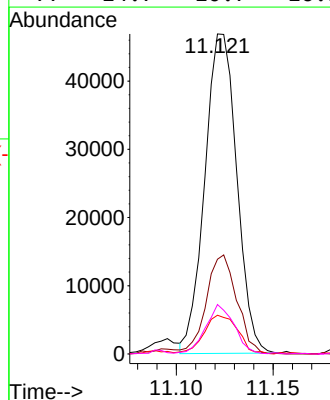
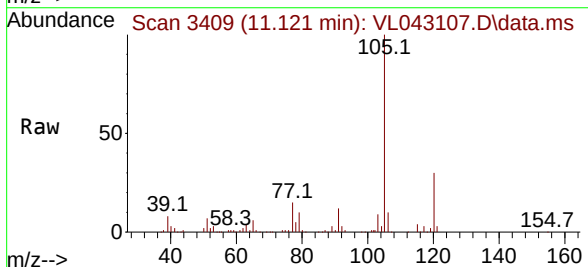
Manual Integrations
APPROVED

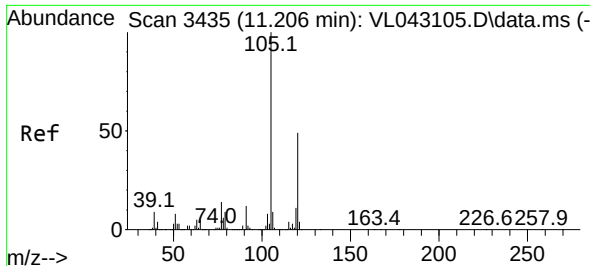
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#72
4-Ethyltoluene
Concen: 1.059 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion:105 Resp: 53788
Ion Ratio Lower Upper
105 100
120 31.0 24.2 36.4
91 14.0 10.0 15.0
77 14.7 10.7 16.1





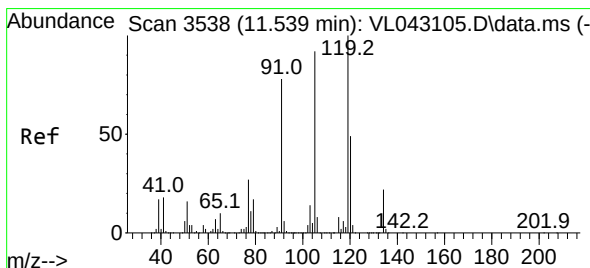
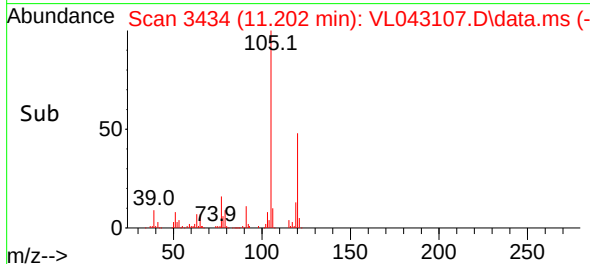
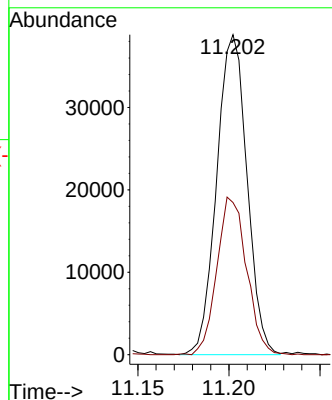
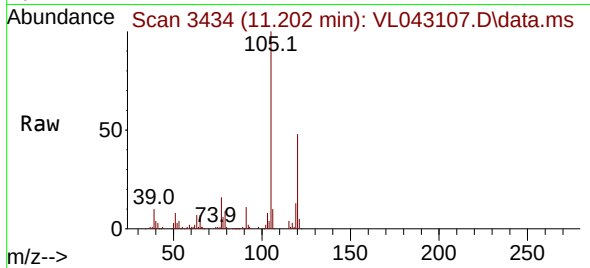
#73
1,3,5-Trimethylbenzene
Concen: 1.070 ppbv
RT: 11.202 min Scan# 3435
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion:105 Resp: 44780
Ion Ratio Lower Upper
105 100
120 47.3 39.0 58.6

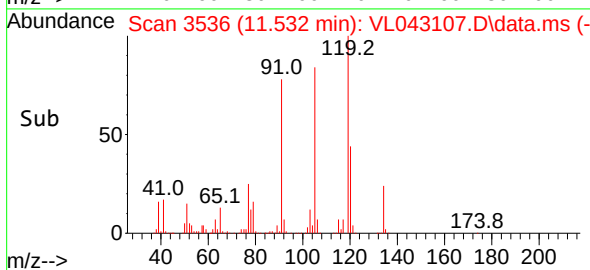
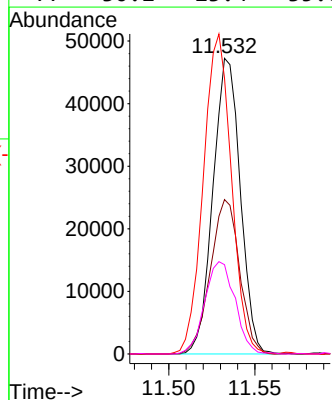
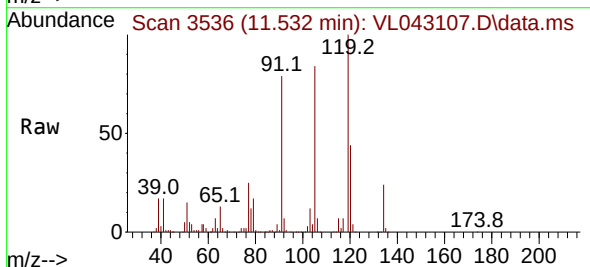
Manual Integrations
APPROVED

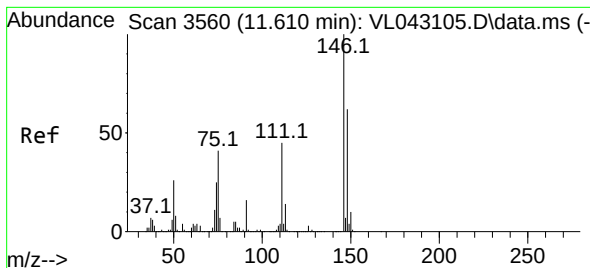
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#74
1,2,4-Trimethylbenzene
Concen: 1.112 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion:105 Resp: 52118
Ion Ratio Lower Upper
105 100
120 52.2 42.8 64.2
91 93.1 68.3 102.5
77 30.2 23.4 35.0





#75

1,3-Dichlorobenzene

Concen: 1.074 ppbv

RT: 11.604 min Scan# 3558

Delta R.T. -0.007 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

Instrument :

MSVOA_L

ClientSampleId :

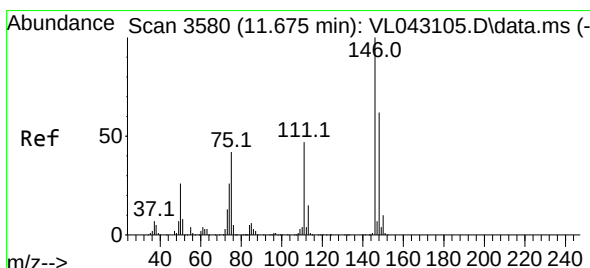
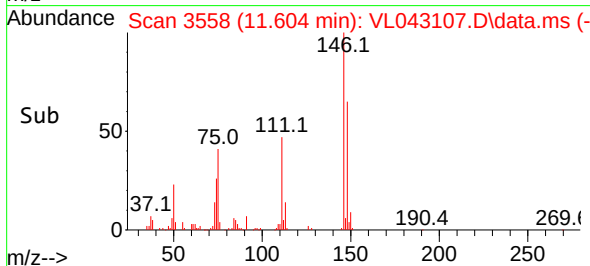
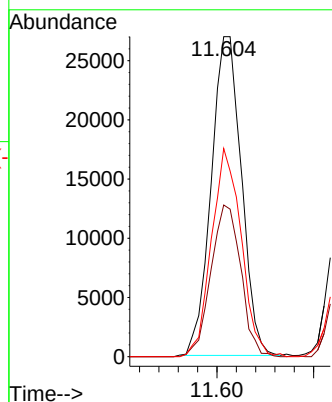
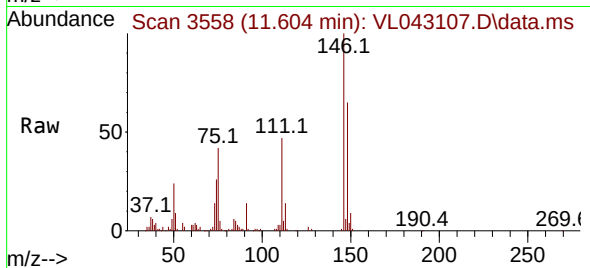
VSTDICC001

Tgt Ion:	146	Resp:	29180
Ion Ratio	Lower	Upper	
146	100		
111	47.0	23.3	69.9
148	64.0	31.6	95.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#76

1,4-Dichlorobenzene

Concen: 1.066 ppbv

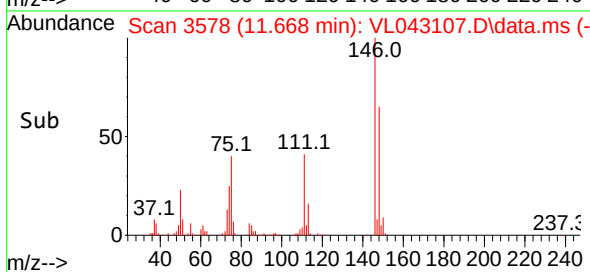
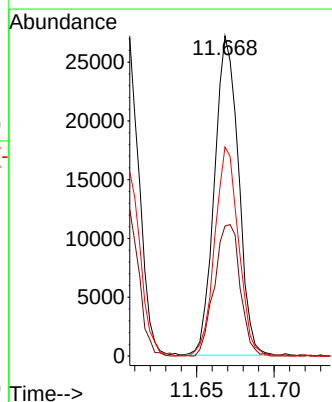
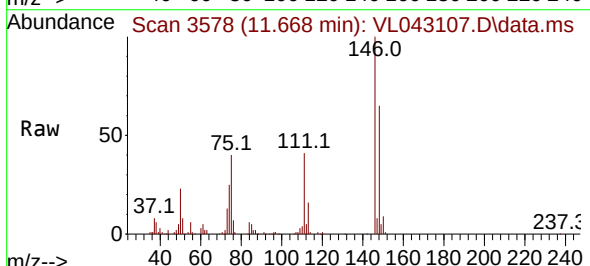
RT: 11.668 min Scan# 3578

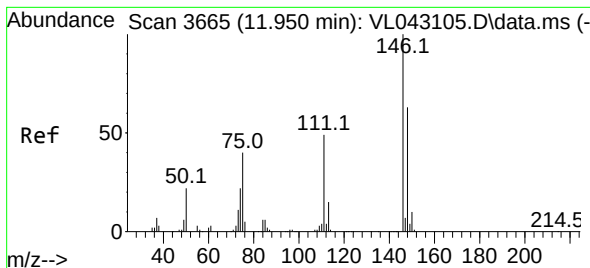
Delta R.T. -0.007 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

Tgt Ion:	146	Resp:	29225
Ion Ratio	Lower	Upper	
146	100		
111	44.2	22.4	67.0
148	65.0	31.6	94.7





#77

1,2-Dichlorobenzene

Concen: 1.109 ppbv

RT: 11.947 min Scan# 3664

Delta R.T. -0.003 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

Instrument :

MSVOA_L

ClientSampleId :

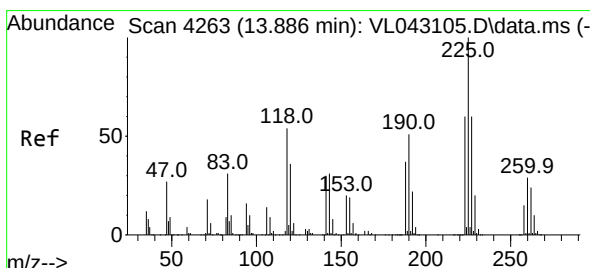
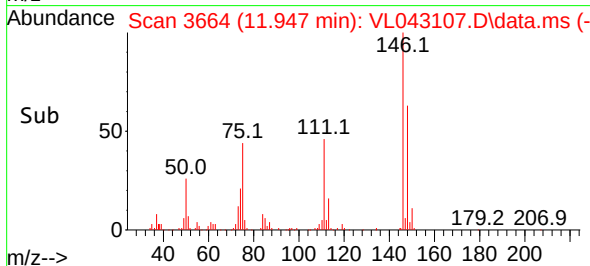
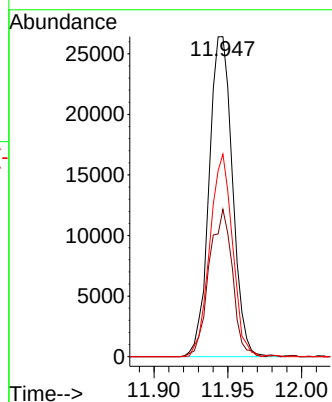
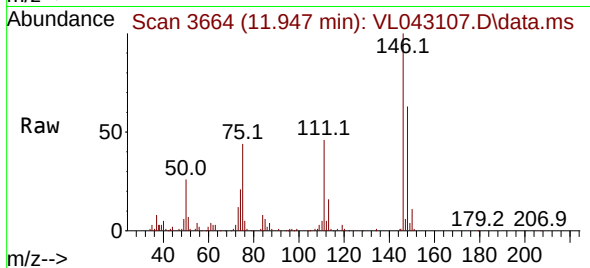
VSTDICC001

Tgt Ion:	146	Resp:	29140
Ion Ratio	Lower	Upper	
146	100		
111	45.8	24.0	72.0
148	61.5	31.1	93.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#78

Hexachloro-1,3-Butadiene

Concen: 1.146 ppbv

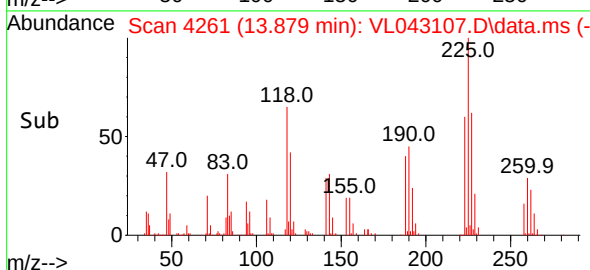
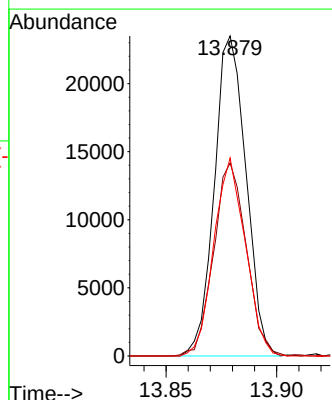
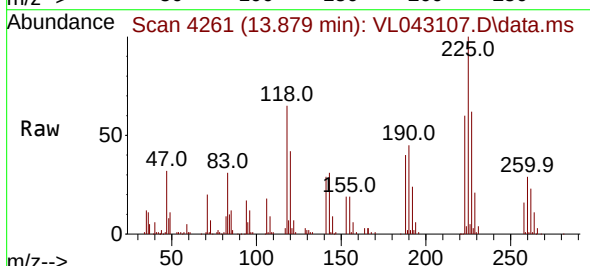
RT: 13.879 min Scan# 4261

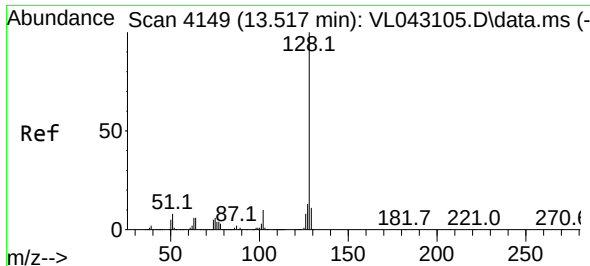
Delta R.T. -0.007 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

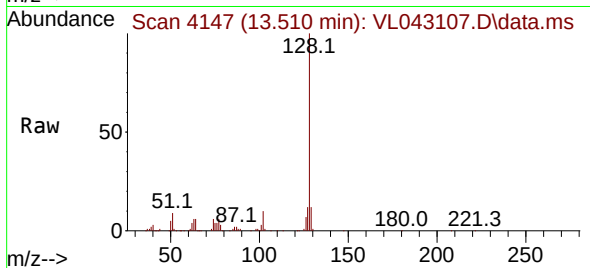
Tgt Ion:	225	Resp:	23330
Ion Ratio	Lower	Upper	
225	100		
223	62.4	50.2	75.4
227	61.6	49.6	74.4





#79
Naphthalene
Concen: 1.114 ppbv
RT: 13.510 min Scan# 4149
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

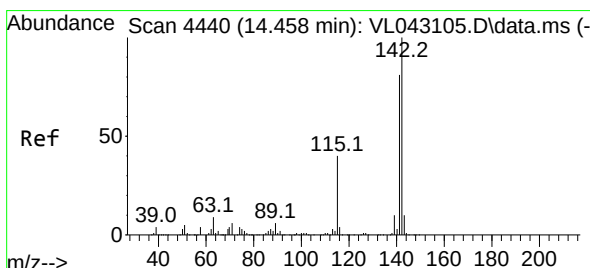
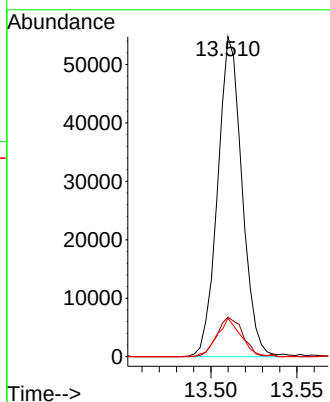
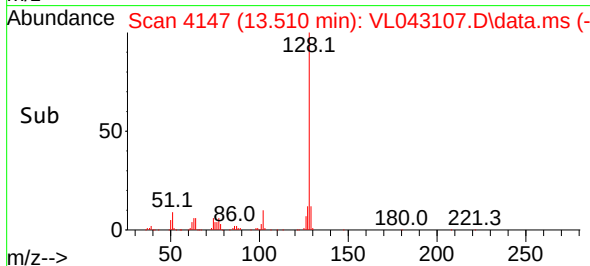
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



Tgt Ion:128 Resp: 53930
Ion Ratio Lower Upper
128 100
127 12.4 10.5 15.7
129 12.0 9.1 13.7

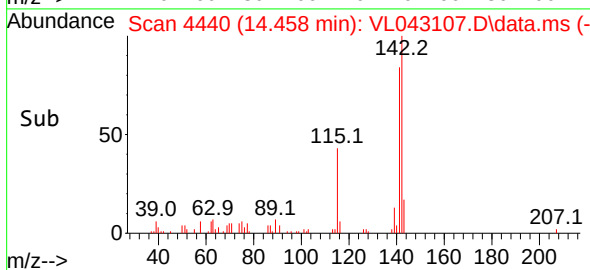
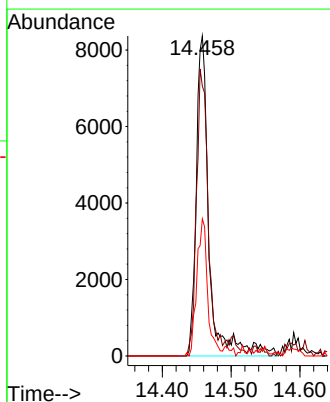
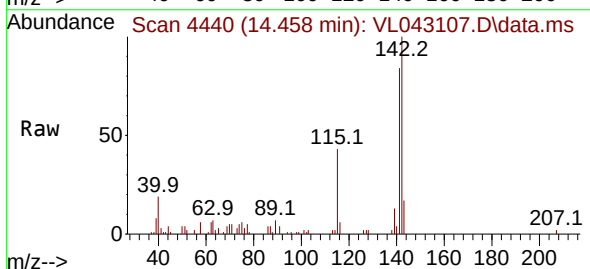
Manual Integrations
APPROVED

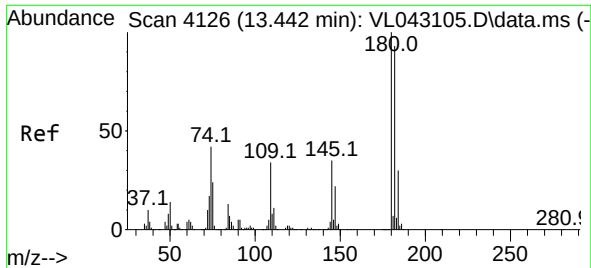
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#80
Naphthalene,2-methyl-
Concen: 0.849 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. -0.000 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

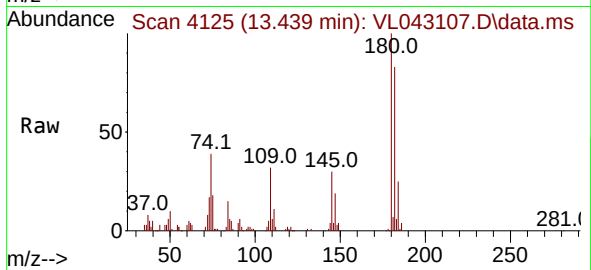
Tgt Ion:142 Resp: 10851
Ion Ratio Lower Upper
142 100
141 88.9 64.6 97.0
115 38.1 30.2 45.4





#81
 1,2,4-Trichlorobenzene
 Concen: 1.090 ppbv
 RT: 13.439 min Scan# 4125
 Delta R.T. -0.003 min
 Lab File: VL043107.D
 Acq: 14 Oct 2025 12:01

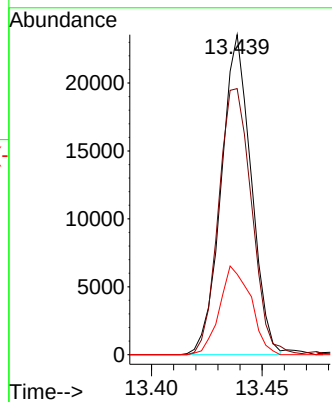
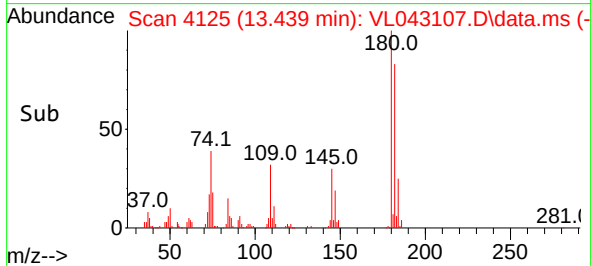
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



Tgt Ion:180 Resp: 2216
 Ion Ratio Lower Upper
 180 100
 182 92.5 75.5 113.3
 184 28.8 23.9 35.9

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
 Data File : VL043108.D
 Acq On : 14 Oct 2025 12:34
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025

Quant Time: Oct 15 01:53:33 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

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

QLast Update : Wed Oct 15 01:49:43 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	101636	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	336188	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	303445	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.380	95	232904	9.875	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	7851	0.543	ppbv	98
3) Chlorodifluoromethane	1.479	51	8497	0.543	ppbv #	89
4) Chloromethane	1.534	50	3254	0.568	ppbv #	88
5) Vinyl Chloride	1.583	62	2857	0.509	ppbv	96
6) Bromomethane	1.670	94	1709	0.555	ppbv	100
7) Chloroethane	1.706	64	1326	0.578	ppbv #	85
8) Dichlorotetrafluoroethane	1.557	85	5970	0.511	ppbv	92
9) Propene	1.486	41	3750	0.541	ppbv	92
10) Heptane	4.981	43	11097m	0.558	ppbv	
11) Trichlorofluoromethane	1.881	101	7672	0.543	ppbv	92
12) 1,1,2-Trichlorotrifluo...	2.143	101	6173	0.543	ppbv	100
13) Ethanol	1.725	45	1468	0.572	ppbv	86
14) Bromoethene	1.787	108	2444	0.578	ppbv #	90
15) Acetone	1.839	43	7931	0.576	ppbv #	88
16) 1,3-Butadiene	1.612	39	3962	0.607	ppbv	91
17) tert-Butyl alcohol	2.046	59	10213	0.543	ppbv #	88
18) 1,1-Dichloroethene	2.039	96	2636	0.531	ppbv	91
19) Isopropyl Alcohol	1.887	45	4932	0.578	ppbv #	43
20) Methylene Chloride	2.065	84	3750	0.693	ppbv #	75
21) Allyl Chloride	2.098	41	5575	0.551	ppbv	98
22) trans-1,2-Dichloroethene	2.344	96	3093	0.522	ppbv	98
23) Vinyl Acetate	2.467	43	10914	0.544	ppbv #	96
24) 1,1-Dichloroethane	2.412	63	5942	0.519	ppbv	99
25) Ethyl Acetate	2.845	43	17918	0.527	ppbv #	96
26) Hexane	2.829	57	8908	0.569	ppbv	95
27) Carbon Disulfide	2.153	76	7230	0.504	ppbv #	1
28) Methyl tert-Butyl Ether	2.444	73	3770	0.529	ppbv #	47
29) Chloroform	2.852	83	12384	0.546	ppbv	100
30) Cyclohexane	3.862	84	7586m	0.556	ppbv	
31) cis-1,2-Dichloroethene	2.725	61	7576	0.507	ppbv #	88
32) 1,1,1-Trichloroethane	3.373	97	12234	0.518	ppbv	97
34) 2-Butanone	2.564	43	12659	0.557	ppbv	99
35) Carbon Tetrachloride	3.768	117	11931	0.494	ppbv	87
36) Benzene	3.661	78	16376	0.517	ppbv	94
37) 1,2-Dichloroethane	3.224	62	9907	0.543	ppbv	99
38) Trichloroethene	4.554	130	6745	0.511	ppbv	95
39) 1,2-Dichloropropane	4.318	63	6032	0.521	ppbv #	80
40) 1,4-Dioxane	4.609	88	2794m	0.539	ppbv	
41) Tetrahydrofuran	3.065	42	7174m	0.565	ppbv	
42) Bromodichloromethane	4.496	83	13094	0.519	ppbv	96
43) Methyl Methacrylate	4.888	69	8412m	0.521	ppbv	
44) 2,2,4-Trimethylpentane	4.648	57	28494m	0.538	ppbv	
45) t-1,3-Dichloropropene	6.425	75	8030	0.498	ppbv	94

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
 Data File : VL043108.D
 Acq On : 14 Oct 2025 12:34
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025

Quant Time: Oct 15 01:53:33 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

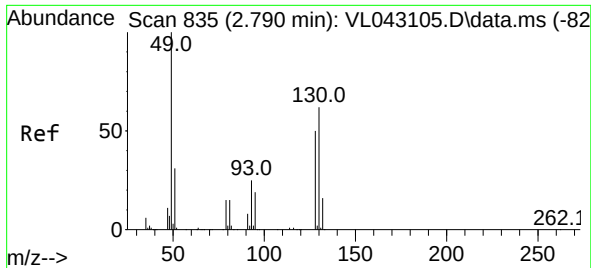
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Wed Oct 15 01:49:43 2025

Response via : Initial Calibration

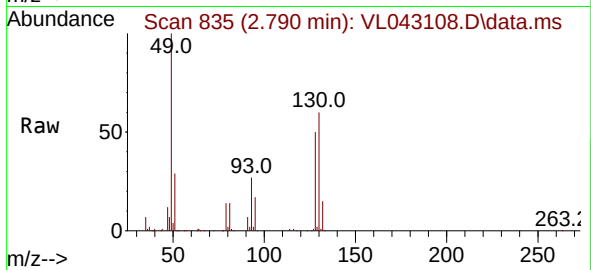
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	9973m	0.518	ppbv	
47) 1,1,2-Trichloroethane	6.587	97	6996	0.560	ppbv	92
48) Dibromochloromethane	7.393	129	10413	0.498	ppbv	96
49) Bromoform	9.487	173	8455	0.498	ppbv	96
50) 4-Methyl-2-Pentanone	5.771	43	16289m	0.520	ppbv	
51) 2-Hexanone	7.451	43	11485	0.491	ppbv #	94
52) Tetrachloroethene	8.231	164	5863	0.513	ppbv #	90
53) Toluene	6.936	91	20380	0.542	ppbv	99
54) 1,2-Dibromoethane	7.661	107	9586	0.486	ppbv	90
56) 1,1,1,2-Tetrachloroethane	8.930	131	10044	0.525	ppbv #	1
57) Chlorobenzene	8.927	112	15318	0.540	ppbv	95
58) Ethyl Benzene	9.357	91	27330	0.521	ppbv	91
59) m/p-Xylene	9.539	91	44407m	1.068	ppbv	
60) o-Xylene	9.969	91	21745	0.530	ppbv	96
61) Styrene	9.878	104	9052	0.489	ppbv	96
62) Isopropylbenzene	10.542	105	38899	0.525	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.966	83	13653	0.497	ppbv	97
64) n-propylbenzene	10.992	120	10435	0.532	ppbv	99
65) tert-Butylbenzene	11.532	119	35537	0.543	ppbv	99
66) Benzyl Chloride	11.620	91	3477	0.476	ppbv #	97
67) sec-Butylbenzene	11.769	105	50259	0.541	ppbv	100
69) p-Isopropyltoluene	11.927	119	41366	0.524	ppbv	99
70) n-Butylbenzene	12.283	91	39620	0.509	ppbv	98
71) 2-Chlorotoluene	10.901	91	29722	0.526	ppbv	98
72) 4-Ethyltoluene	11.128	105	26408	0.524	ppbv	98
73) 1,3,5-Trimethylbenzene	11.209	105	21754	0.523	ppbv	89
74) 1,2,4-Trimethylbenzene	11.539	105	25663	0.551	ppbv	93
75) 1,3-Dichlorobenzene	11.610	146	13697	0.507	ppbv	95
76) 1,4-Dichlorobenzene	11.675	146	14514	0.533	ppbv	99
77) 1,2-Dichlorobenzene	11.950	146	14324	0.548	ppbv	98
78) Hexachloro-1,3-Butadiene	13.885	225	11400	0.564	ppbv	98
79) Naphthalene	13.516	128	23247	0.483	ppbv #	94
80) Naphthalene,2-methyl-	14.462	142	3874	0.305	ppbv #	84
81) 1,2,4-Trichlorobenzene	13.442	180	8395	0.416	ppbv	98

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

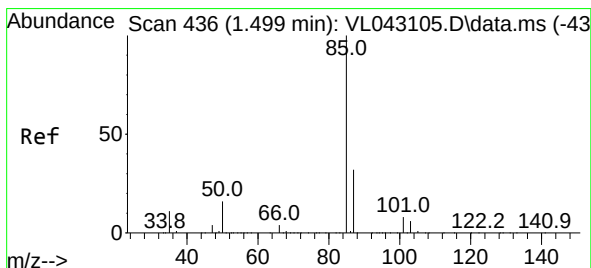
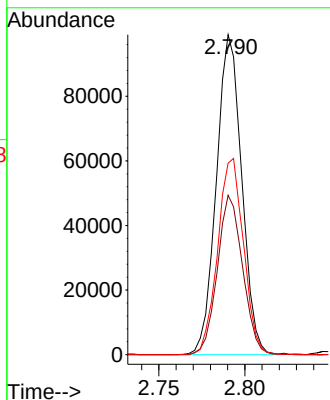
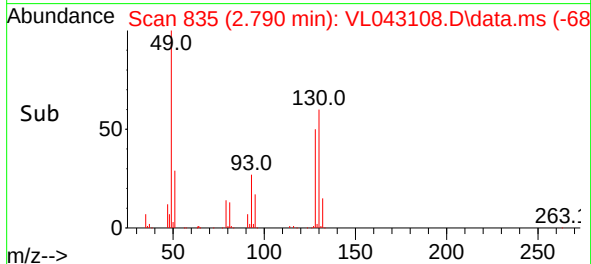
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



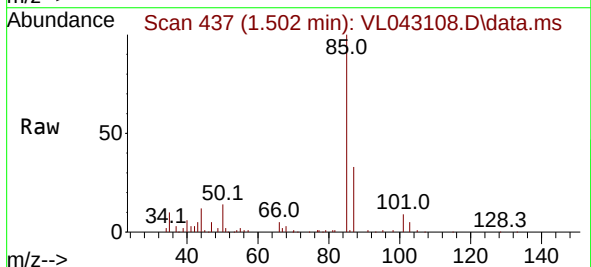
Tgt Ion: 49 Resp: 101630
Ion Ratio Lower Upper
49 100
128 49.5 24.4 73.4
130 62.5 31.0 93.0

Manual Integrations
APPROVED

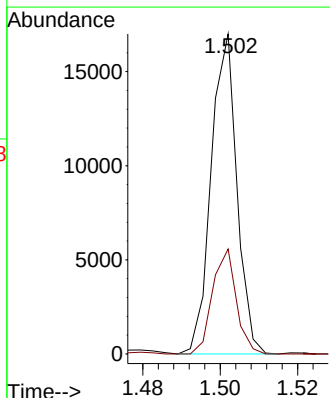
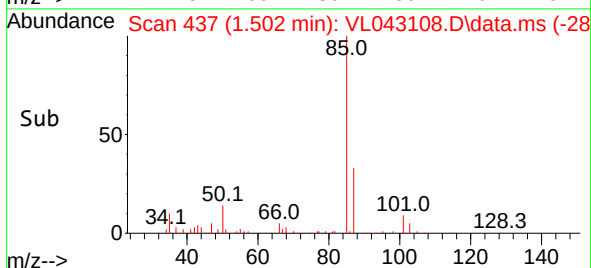
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

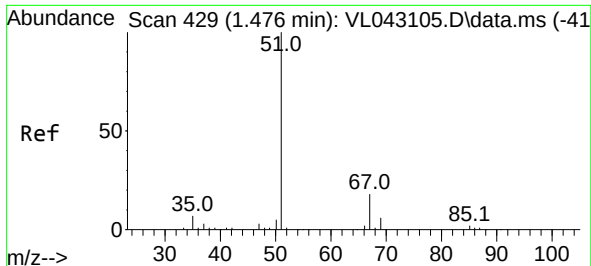


#2
Dichlorodifluoromethane
Concen: 0.543 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34



Tgt Ion: 85 Resp: 7851
Ion Ratio Lower Upper
85 100
87 32.8 25.3 37.9





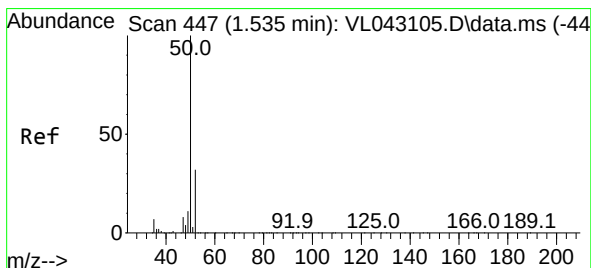
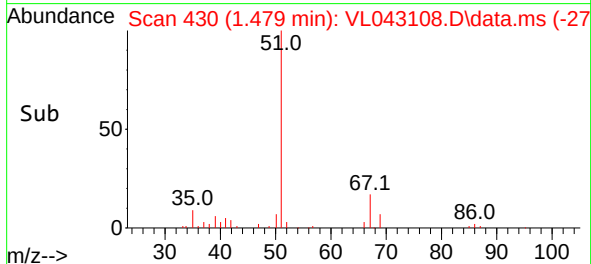
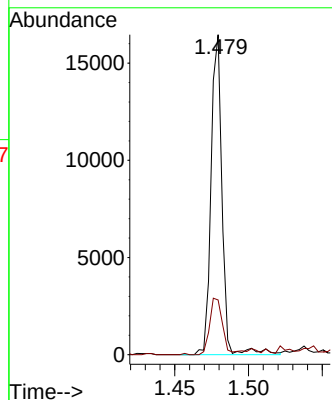
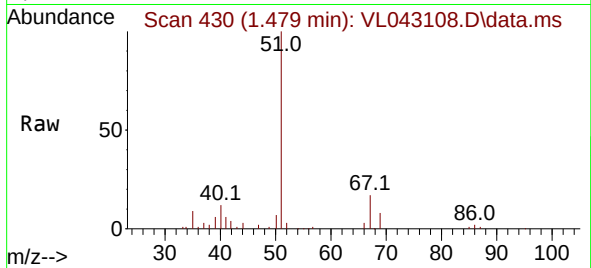
#3
Chlorodifluoromethane
Concen: 0.543 ppbv
RT: 1.479 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 51 Resp: 849
Ion Ratio Lower Upper
51 100
67 23.8 15.1 22.7

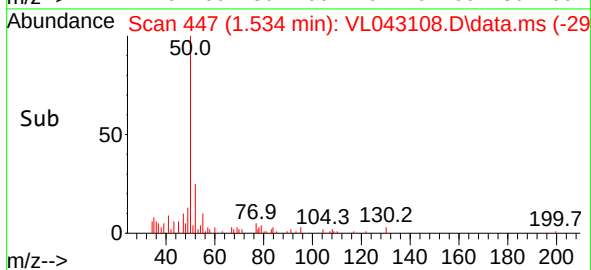
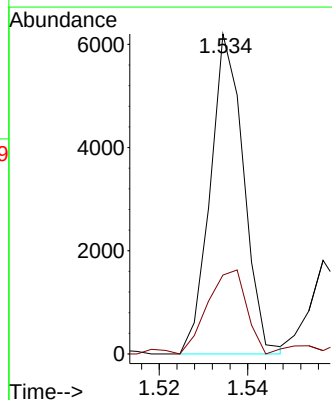
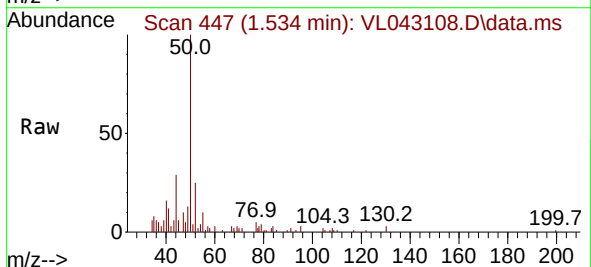
Manual Integrations
APPROVED

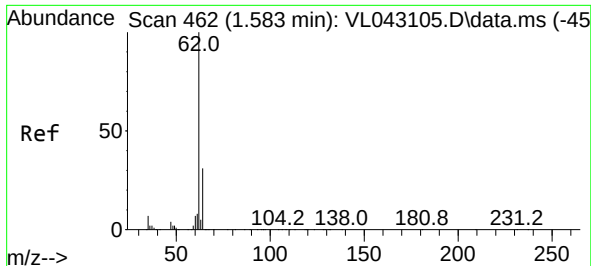
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#4
Chloromethane
Concen: 0.568 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

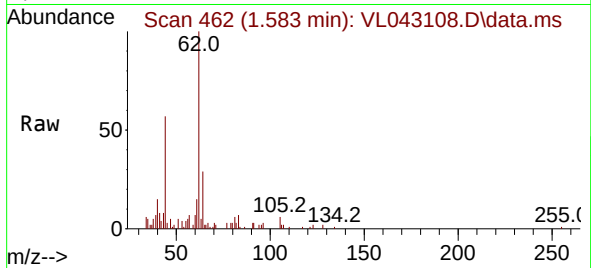
Tgt Ion: 50 Resp: 3254
Ion Ratio Lower Upper
50 100
52 24.7 25.2 37.8





#5
 Vinyl Chloride
 Concen: 0.509 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. -0.000 min
 Lab File: VL043108.D
 Acq: 14 Oct 2025 12:34

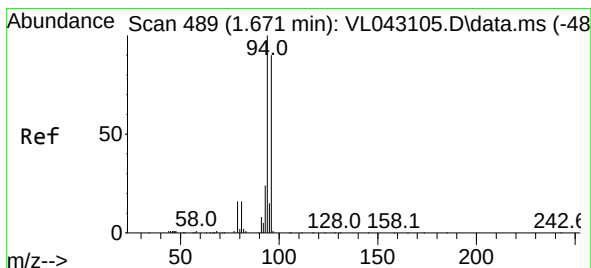
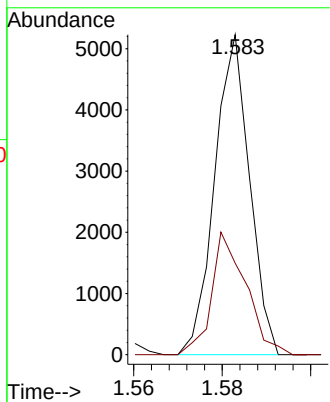
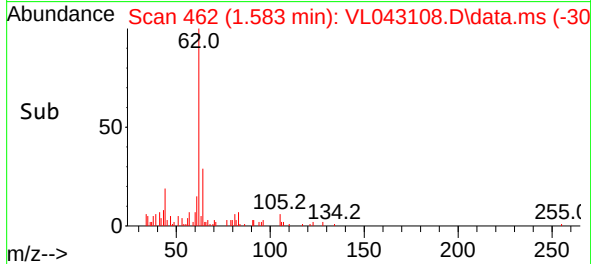
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



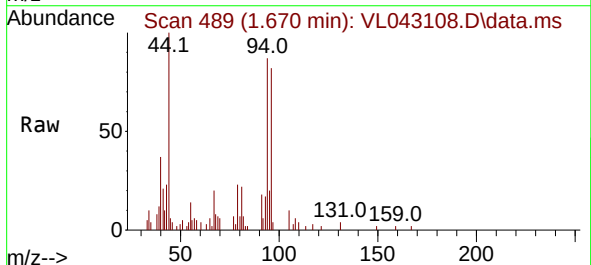
Tgt Ion: 62 Resp: 285
 Ion Ratio Lower Upper
 62 100
 64 28.6 24.6 36.8

Manual Integrations
 APPROVED

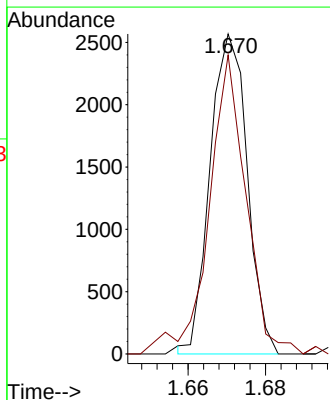
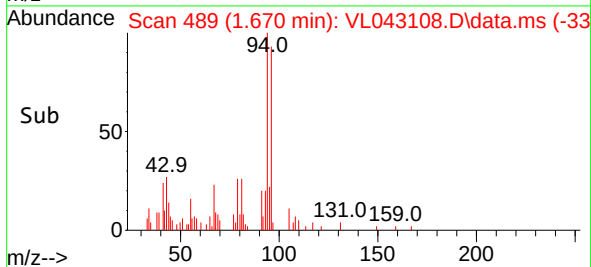
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025

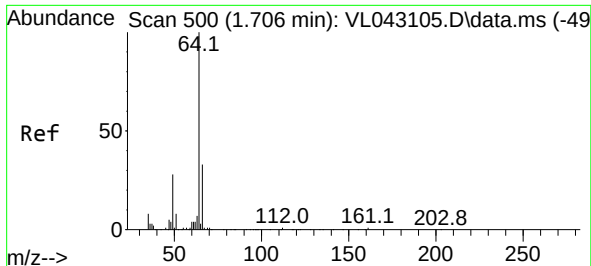


#6
 Bromomethane
 Concen: 0.555 ppbv
 RT: 1.670 min Scan# 489
 Delta R.T. -0.000 min
 Lab File: VL043108.D
 Acq: 14 Oct 2025 12:34



Tgt Ion: 94 Resp: 1709
 Ion Ratio Lower Upper
 94 100
 96 89.9 72.2 108.4





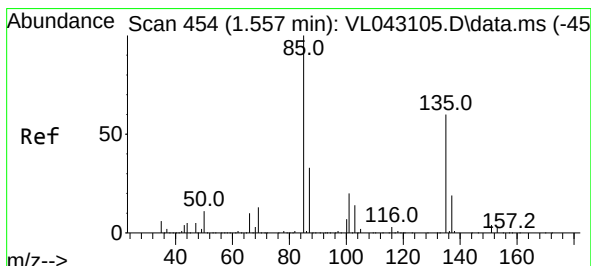
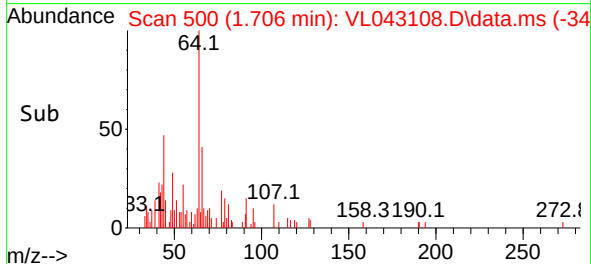
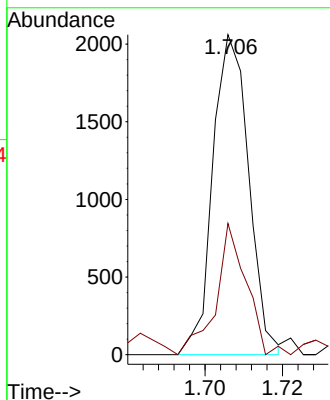
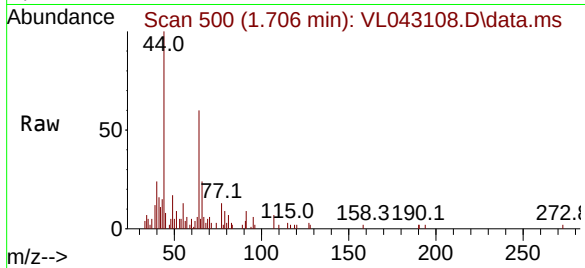
#7
Chloroethane
Concen: 0.578 ppbv
RT: 1.706 min Scan# 500
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 64 Resp: 1320
Ion Ratio Lower Upper
64 100
66 41.0 26.0 39.0

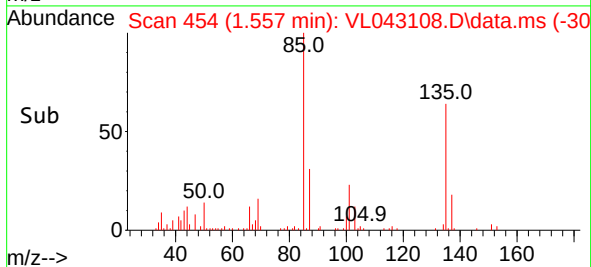
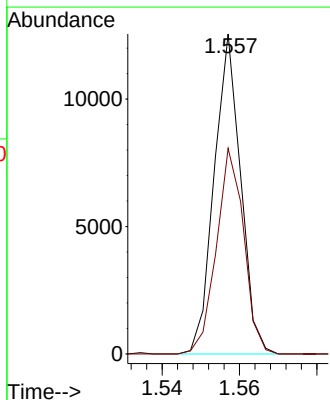
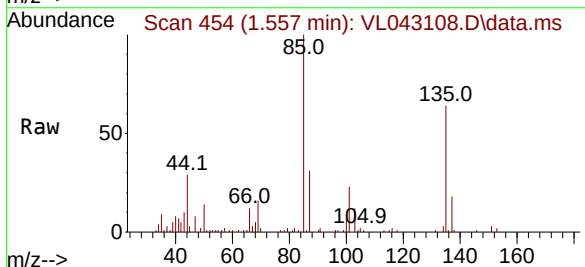
Manual Integrations
APPROVED

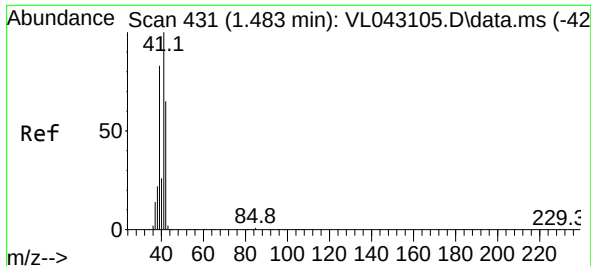
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#8
Dichlorotetrafluoroethane
Concen: 0.511 ppbv
RT: 1.557 min Scan# 454
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 85 Resp: 5970
Ion Ratio Lower Upper
85 100
135 66.3 48.2 72.4





#9

Propene

Concen: 0.541 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5

Tgt Ion: 41 Resp: 3750

Ion Ratio Lower Upper

41 100

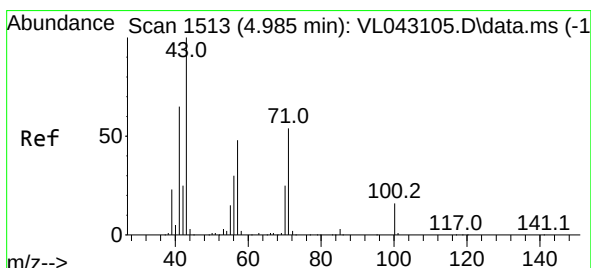
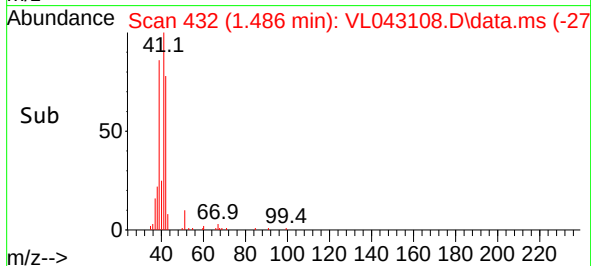
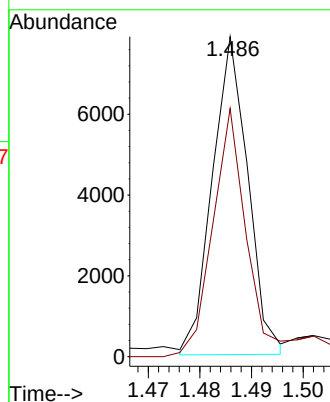
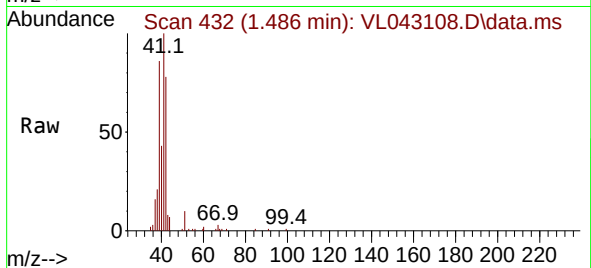
42 75.0 55.1 82.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#10

Heptane

Concen: 0.558 ppbv m

RT: 4.981 min Scan# 1512

Delta R.T. -0.003 min

Lab File: VL043108.D

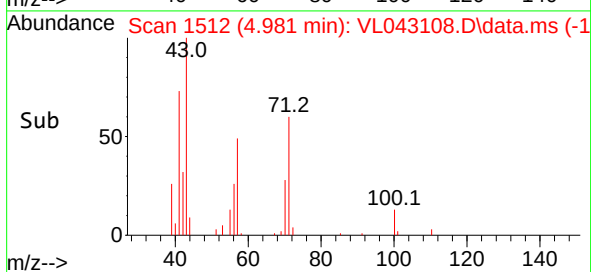
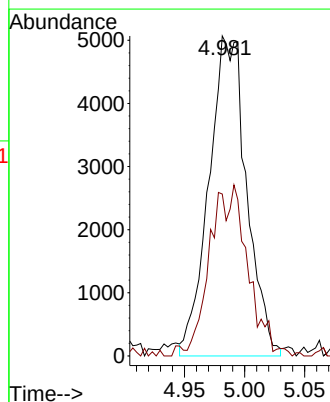
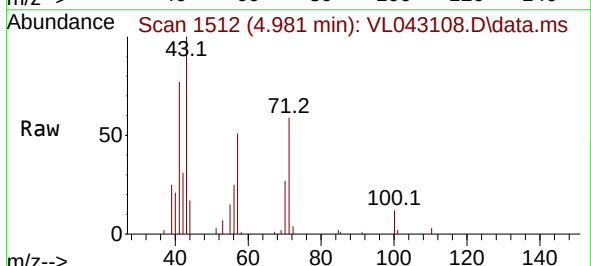
Acq: 14 Oct 2025 12:34

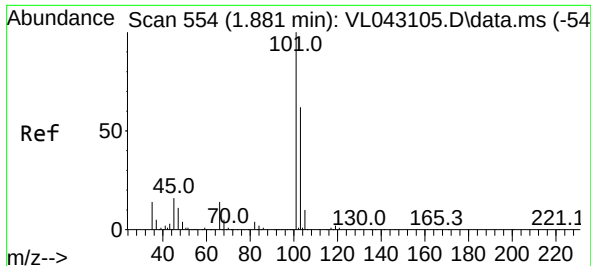
Tgt Ion: 43 Resp: 11097

Ion Ratio Lower Upper

43 100

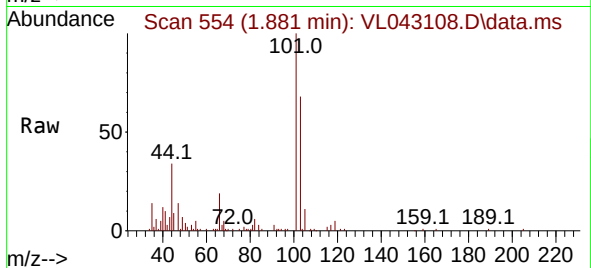
57 0.0 40.8 61.2#





#11
 Trichlorofluoromethane
 Concen: 0.543 ppbv
 RT: 1.881 min Scan# 554
 Delta R.T. -0.000 min
 Lab File: VL043108.D
 Acq: 14 Oct 2025 12:34

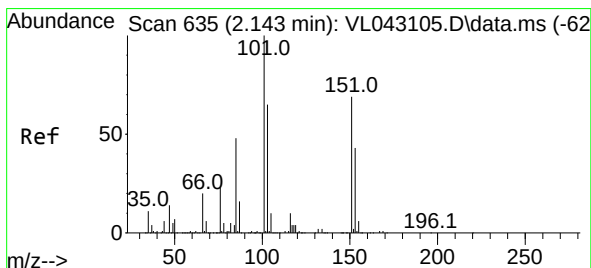
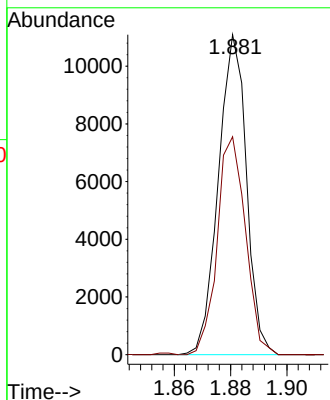
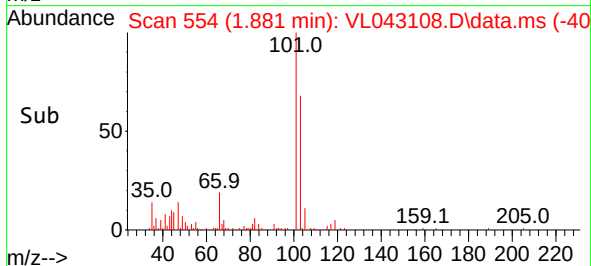
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



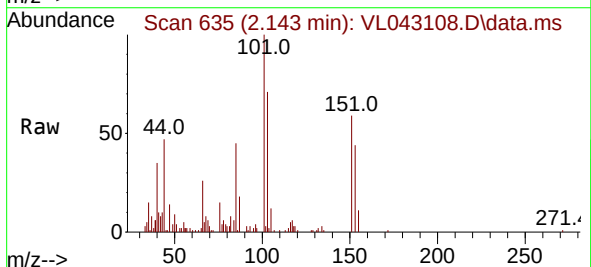
Tgt Ion:101 Resp: 7672
 Ion Ratio Lower Upper
 101 100
 103 68.1 49.3 73.9

Manual Integrations
 APPROVED

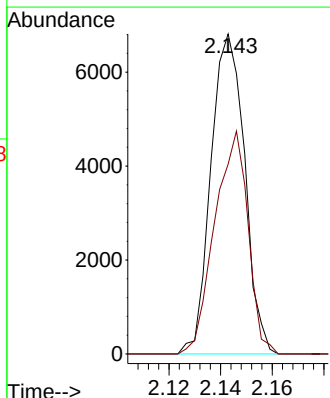
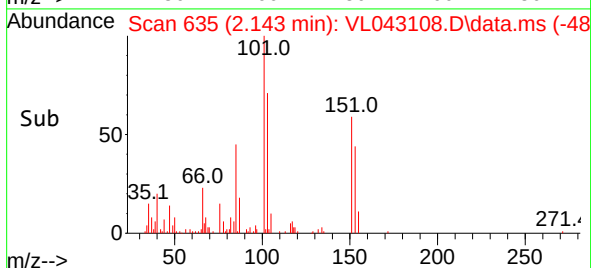
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025

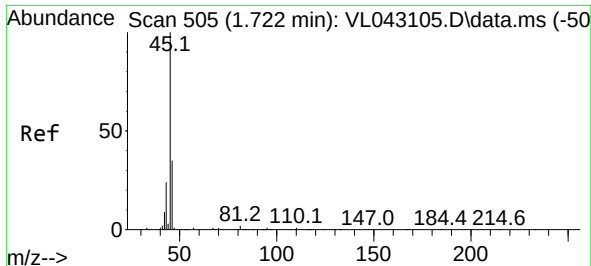


#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.543 ppbv
 RT: 2.143 min Scan# 635
 Delta R.T. -0.000 min
 Lab File: VL043108.D
 Acq: 14 Oct 2025 12:34



Tgt Ion:101 Resp: 6173
 Ion Ratio Lower Upper
 101 100
 151 68.8 54.7 82.1





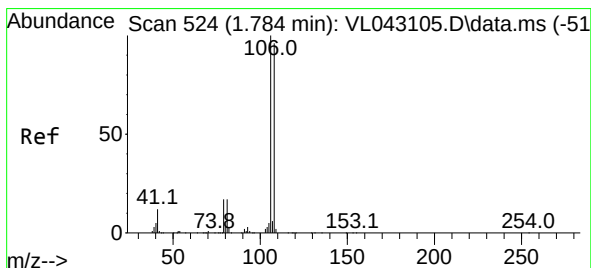
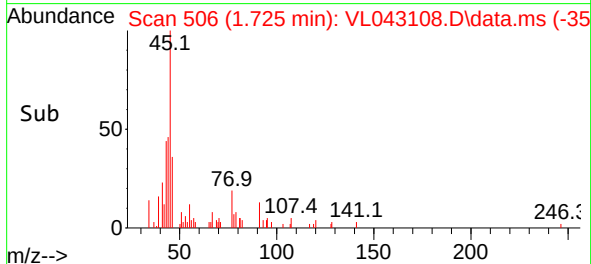
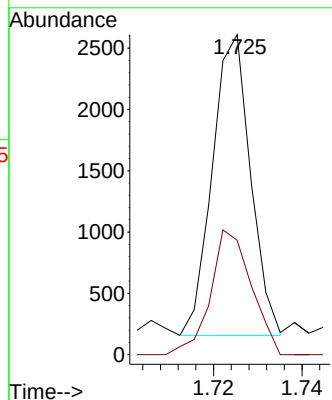
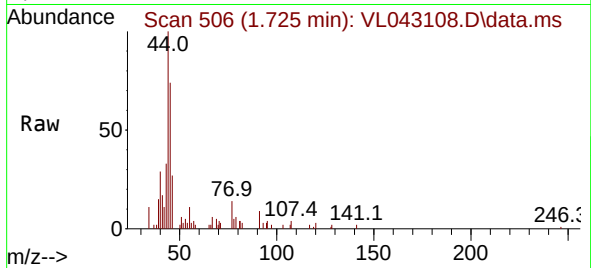
#13
Ethanol
Concen: 0.572 ppbv
RT: 1.725 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 45 Resp: 1468
Ion Ratio Lower Upper
45 100
46 45.1 14.7 58.9

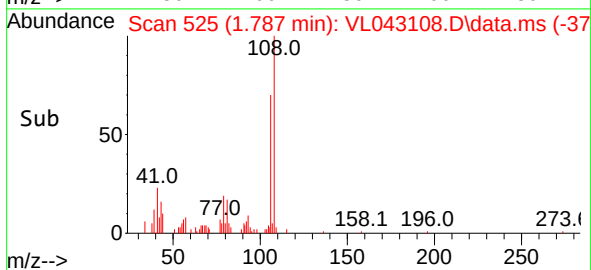
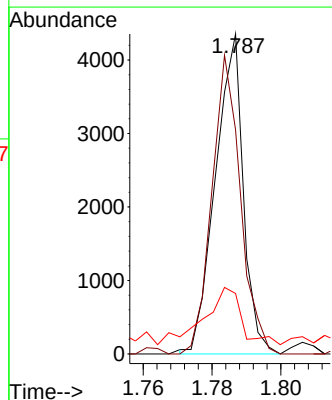
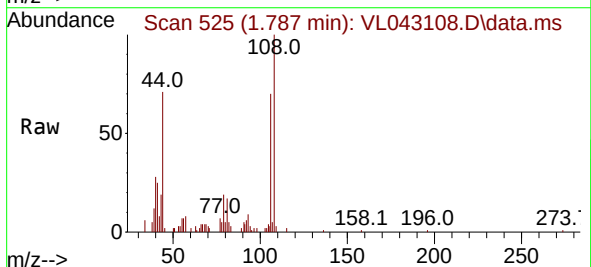
Manual Integrations
APPROVED

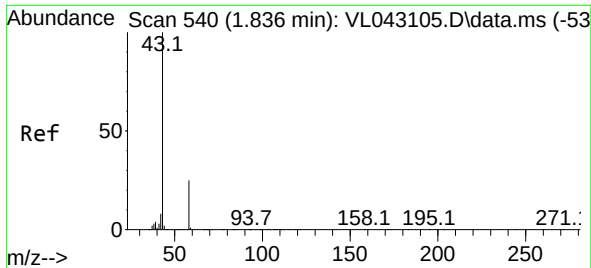
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#14
Bromoethene
Concen: 0.578 ppbv
RT: 1.787 min Scan# 525
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

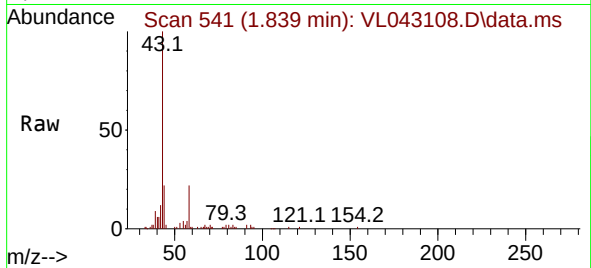
Tgt Ion:108 Resp: 2444
Ion Ratio Lower Upper
108 100
106 98.2 84.4 126.6
79 31.2 15.3 22.9#





#15
Acetone
Concen: 0.576 ppbv
RT: 1.839 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

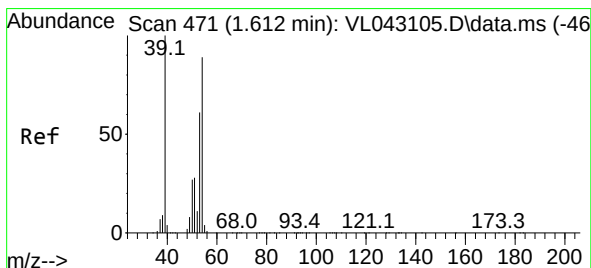
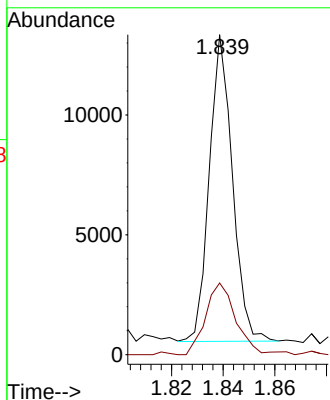
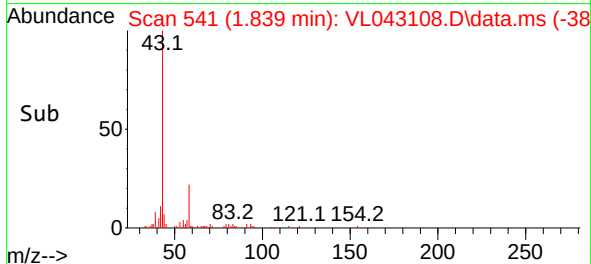
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



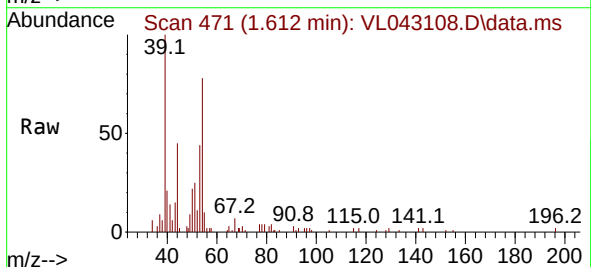
Tgt Ion: 43 Resp: 793
Ion Ratio Lower Upper
43 100
58 32.0 20.8 31.2

Manual Integrations
APPROVED

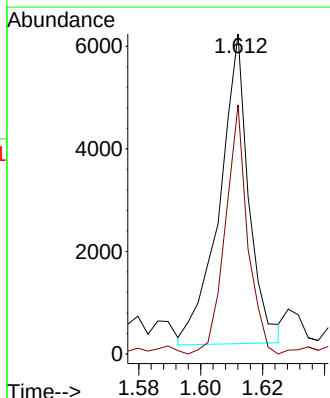
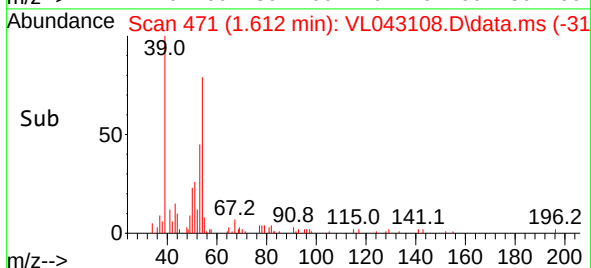
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

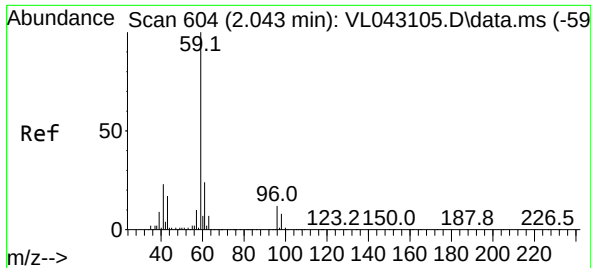


#16
1,3-Butadiene
Concen: 0.607 ppbv
RT: 1.612 min Scan# 471
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34



Tgt Ion: 39 Resp: 3962
Ion Ratio Lower Upper
39 100
54 66.1 59.0 88.4





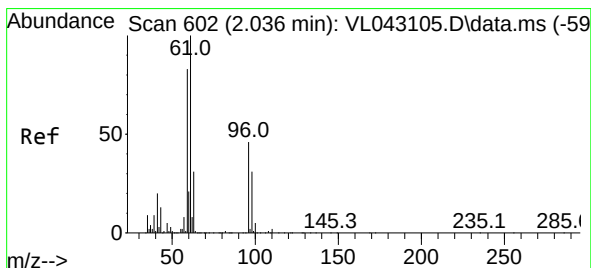
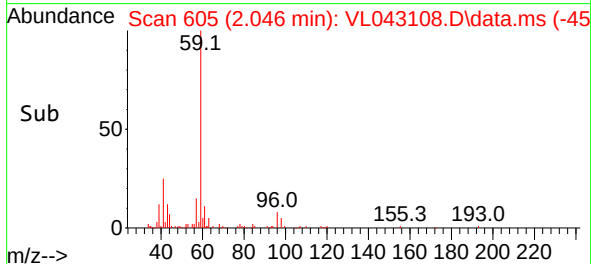
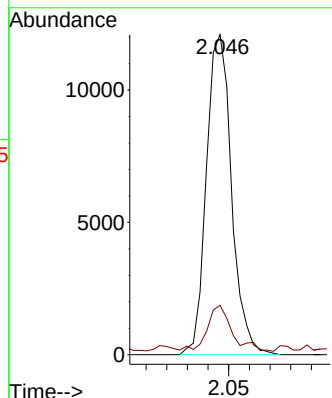
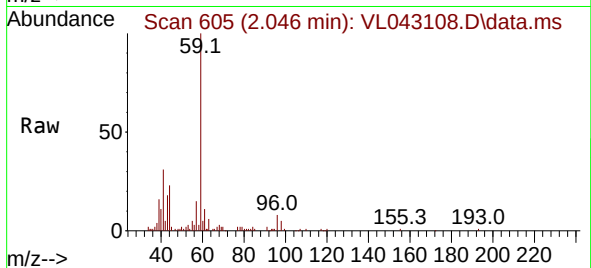
#17
tert-Butyl alcohol
Concen: 0.543 ppbv
RT: 2.046 min Scan# 604
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 59 Resp: 1021
Ion Ratio Lower Upper
59 100
57 14.8 8.2 12.4

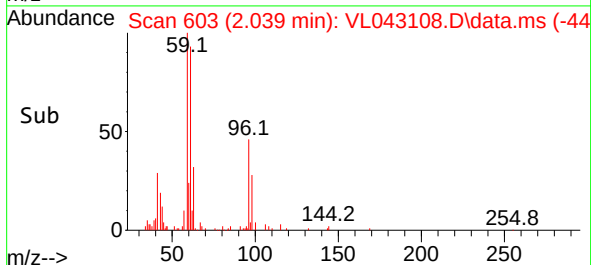
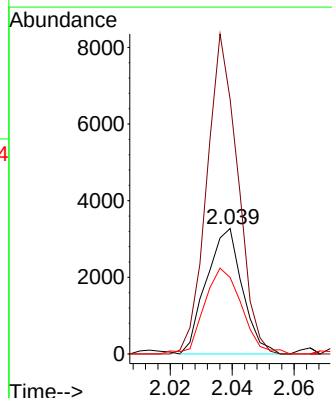
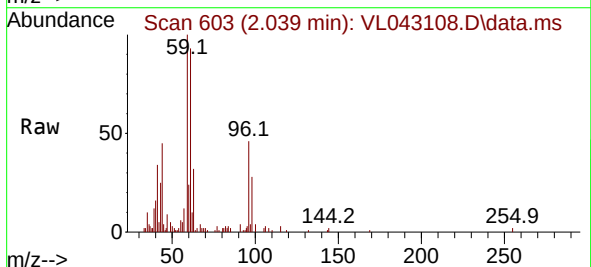
Manual Integrations
APPROVED

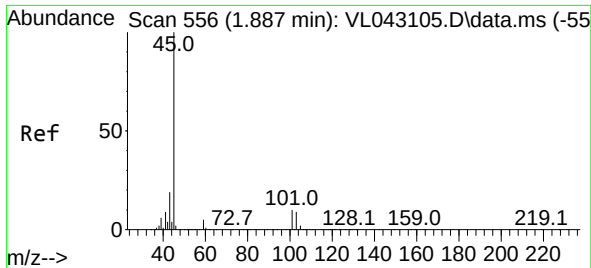
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#18
1,1-Dichloroethene
Concen: 0.531 ppbv
RT: 2.039 min Scan# 603
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

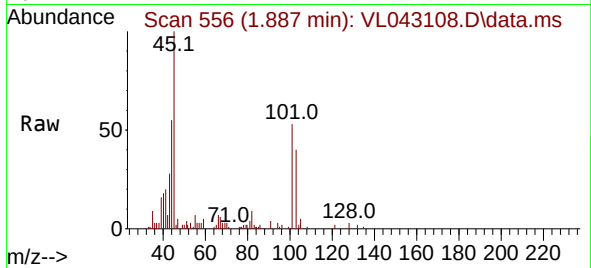
Tgt Ion: 96 Resp: 2636
Ion Ratio Lower Upper
96 100
61 203.1 173.4 260.0
98 59.2 53.2 79.8





#19
Isopropyl Alcohol
Concen: 0.578 ppbv
RT: 1.887 min Scan# 556
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

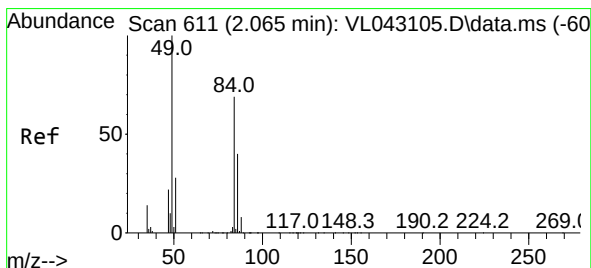
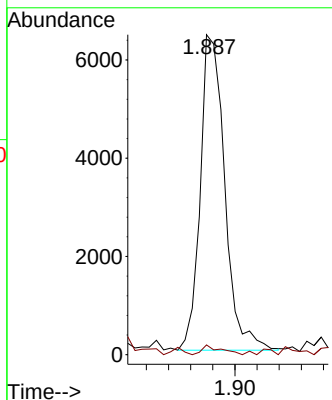
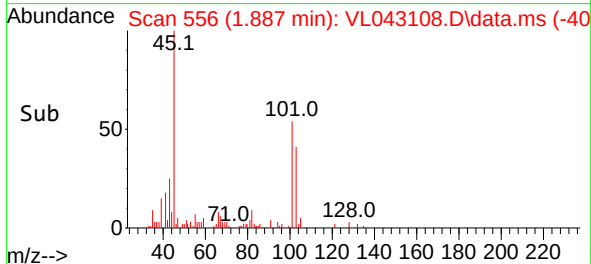
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



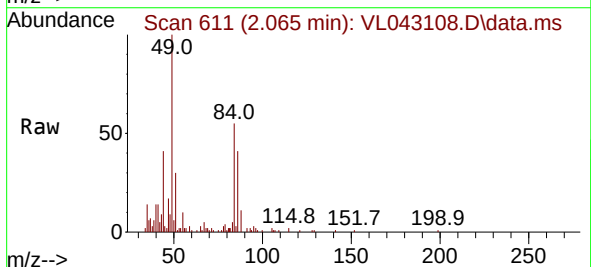
Tgt Ion: 45 Resp: 4932
Ion Ratio Lower Upper
45 100
58 4.1 31.3 46.9

Manual Integrations
APPROVED

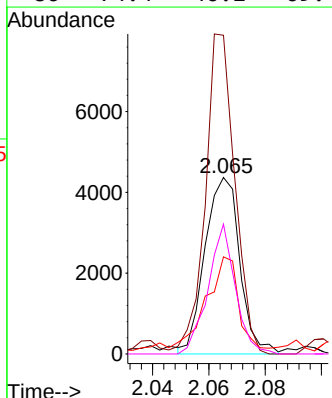
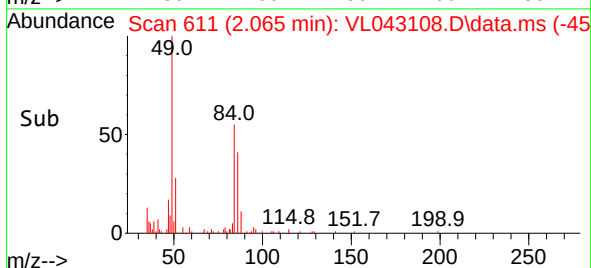
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

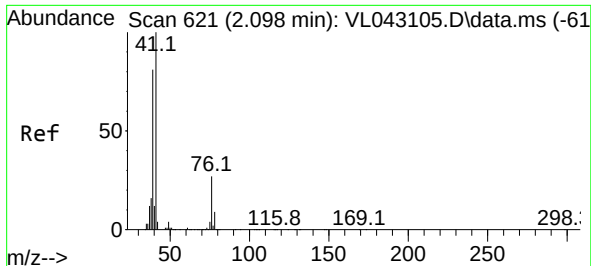


#20
Methylene Chloride
Concen: 0.693 ppbv
RT: 2.065 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34



Tgt Ion: 84 Resp: 3750
Ion Ratio Lower Upper
84 100
49 182.8 116.6 175.0#
51 51.9 34.8 52.2
86 74.4 46.2 69.4#





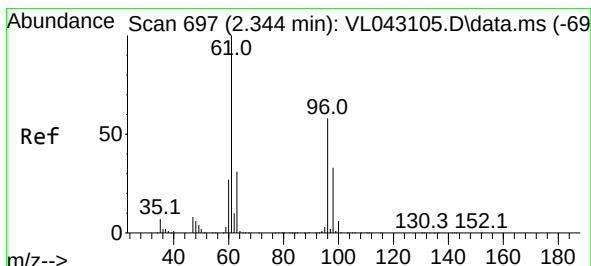
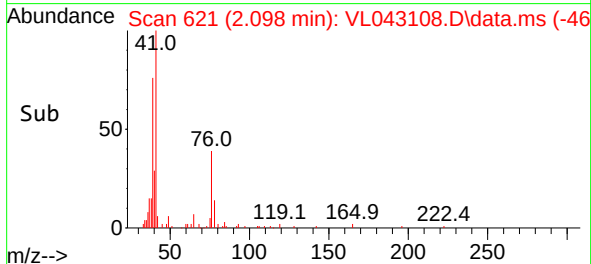
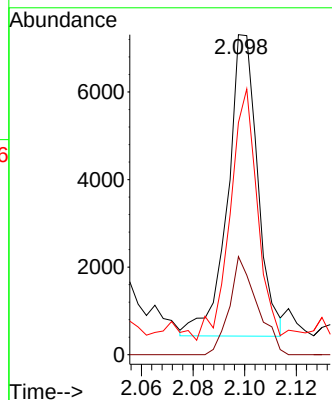
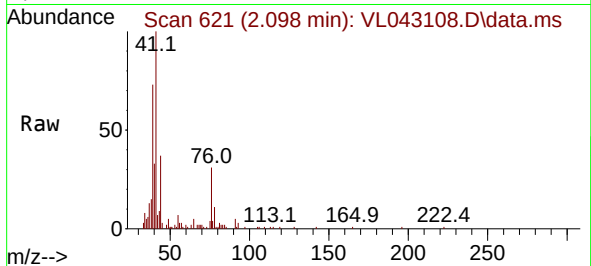
#21
 Allyl Chloride
 Concen: 0.551 ppbv
 RT: 2.098 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: VL043108.D
 Acq: 14 Oct 2025 12:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion: 41 Resp: 557
 Ion Ratio Lower Upper
 41 100
 76 30.0 21.5 32.3
 39 75.1 60.8 91.2

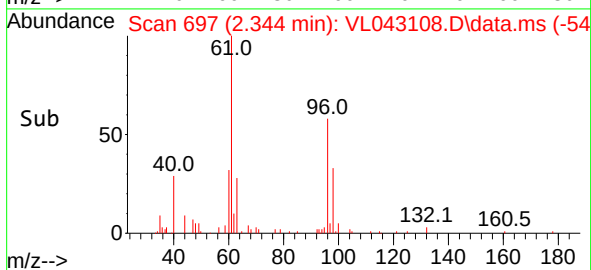
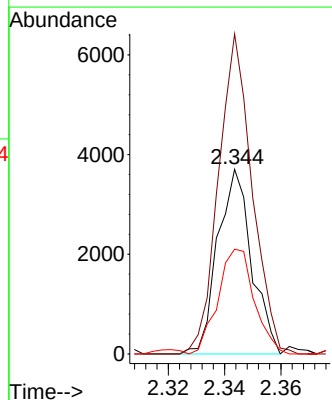
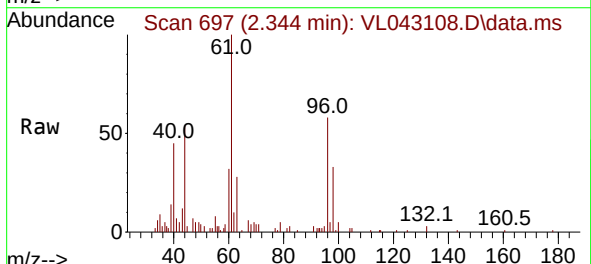
Manual Integrations
 APPROVED

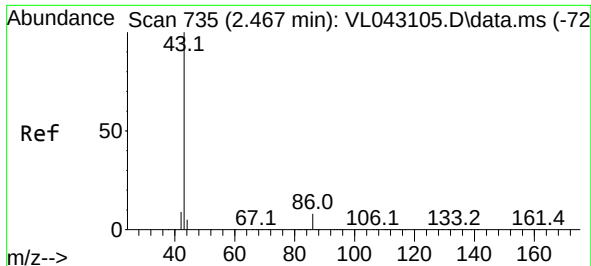
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025



#22
 trans-1,2-Dichloroethene
 Concen: 0.522 ppbv
 RT: 2.344 min Scan# 697
 Delta R.T. -0.000 min
 Lab File: VL043108.D
 Acq: 14 Oct 2025 12:34

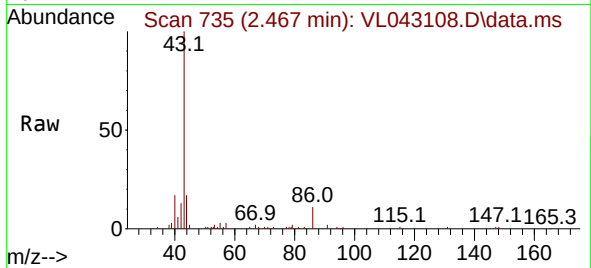
Tgt Ion: 96 Resp: 3093
 Ion Ratio Lower Upper
 96 100
 61 173.3 137.0 205.6
 98 55.0 45.5 68.3





#23
 Vinyl Acetate
 Concen: 0.544 ppbv
 RT: 2.467 min Scan# 718
 Delta R.T. -0.000 min
 Lab File: VL043108.D
 Acq: 14 Oct 2025 12:34

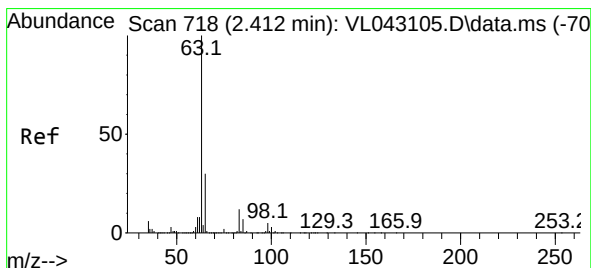
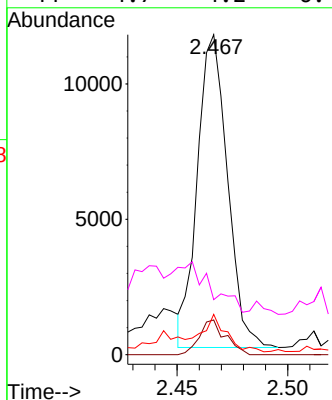
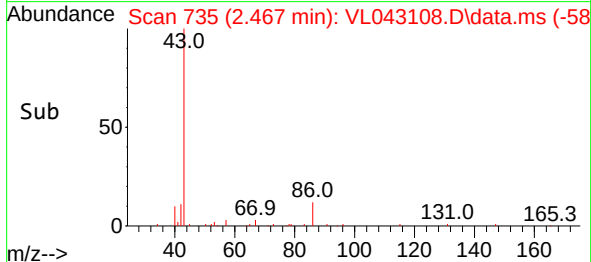
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



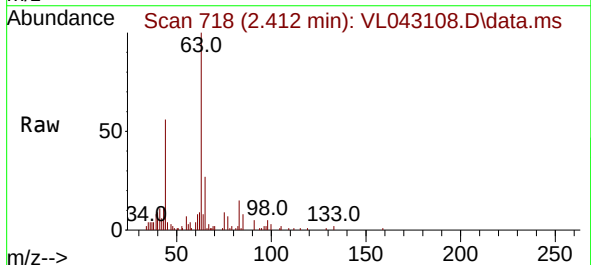
Tgt Ion: 43	Resp: 10914
Ion Ratio	Lower Upper
43	100
86	11.1 6.2 9.2
42	9.0 7.6 11.4
44	4.7 4.2 6.4

Manual Integrations
 APPROVED

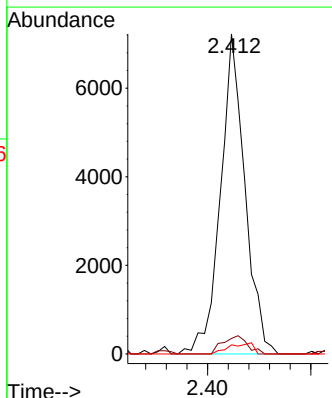
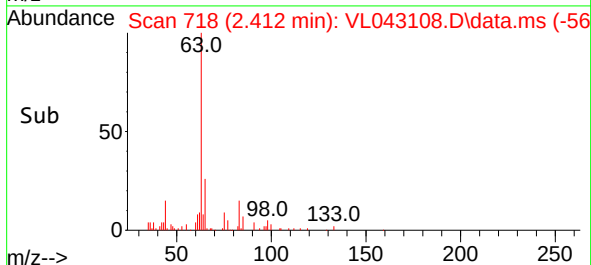
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025

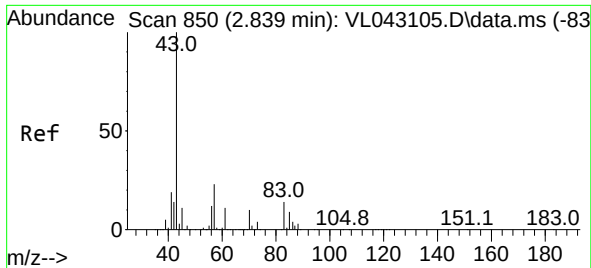


#24
 1,1-Dichloroethane
 Concen: 0.519 ppbv
 RT: 2.412 min Scan# 718
 Delta R.T. -0.000 min
 Lab File: VL043108.D
 Acq: 14 Oct 2025 12:34



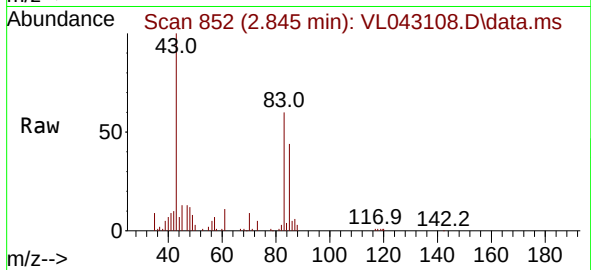
Tgt Ion: 63	Resp: 5942
Ion Ratio	Lower Upper
63	100
98	4.8 2.6 7.8
100	2.8 1.5 4.4





#25
Ethyl Acetate
Concen: 0.527 ppbv
RT: 2.845 min Scan# 850
Delta R.T. 0.006 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

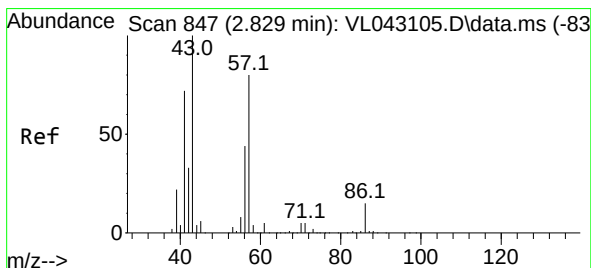
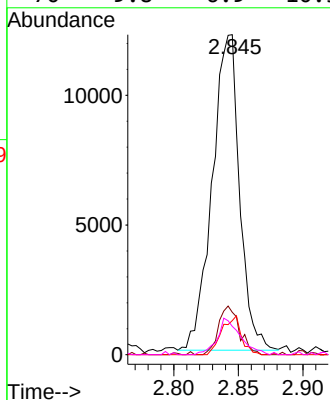
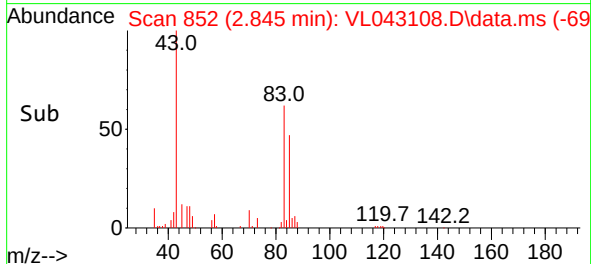
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



Tgt Ion: 43 Resp: 17918
Ion Ratio Lower Upper
43 100
45 12.3 7.8 11.8
61 8.8 7.0 10.6
70 9.8 6.9 10.3

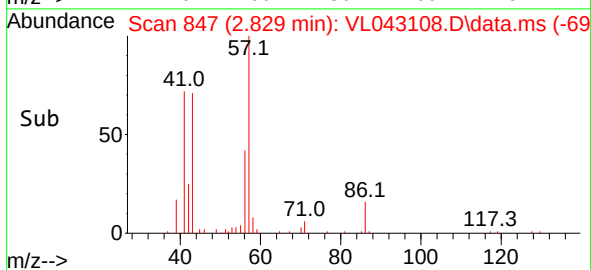
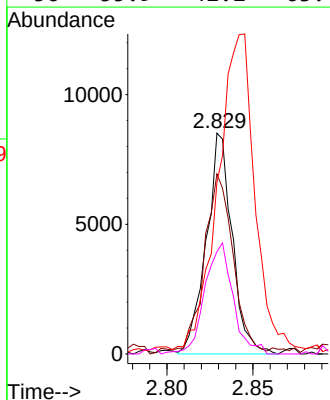
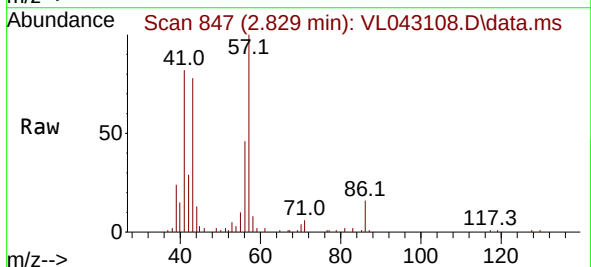
Manual Integrations
APPROVED

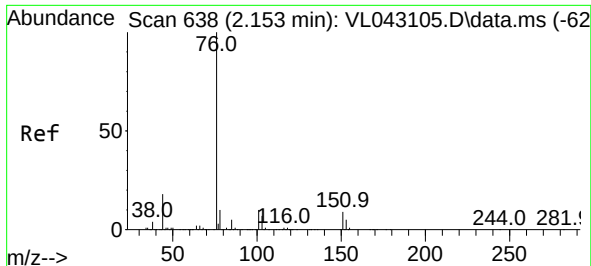
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#26
Hexane
Concen: 0.569 ppbv
RT: 2.829 min Scan# 847
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

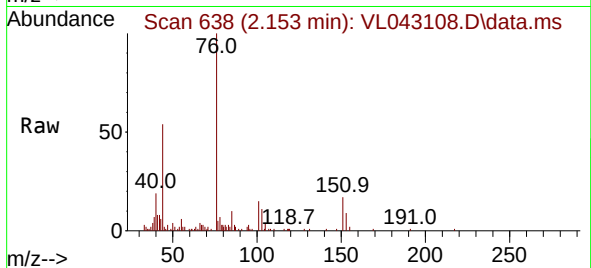
Tgt Ion: 57 Resp: 8908
Ion Ratio Lower Upper
57 100
41 90.3 71.4 107.0
43 211.8 178.5 267.7
56 55.9 42.2 63.4





#27
Carbon Disulfide
Concen: 0.504 ppbv
RT: 2.153 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

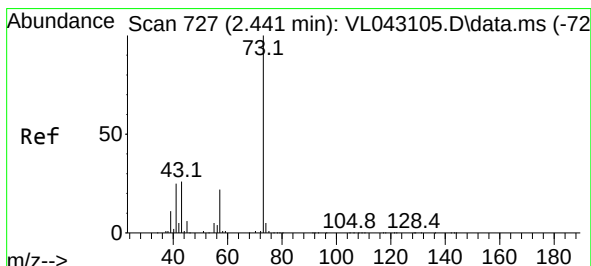
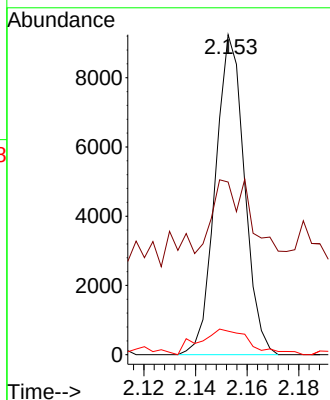
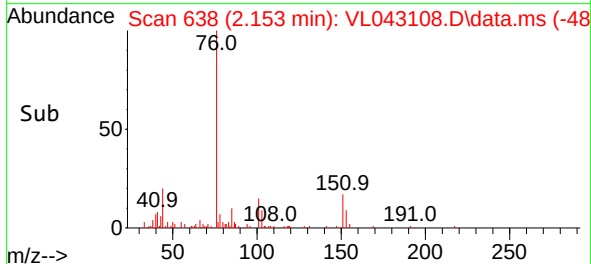
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



Tgt Ion: 76 Resp: 7230
Ion Ratio Lower Upper
76 100
44 120.9 16.7 25.1
78 13.9 9.3 13.9

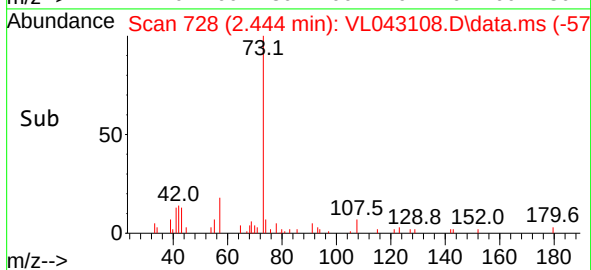
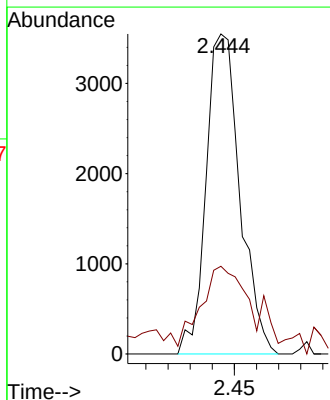
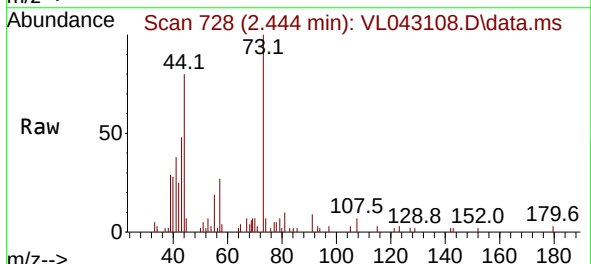
Manual Integrations
APPROVED

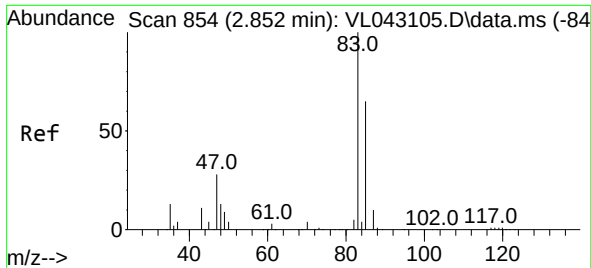
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#28
Methyl tert-Butyl Ether
Concen: 0.529 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 73 Resp: 3770
Ion Ratio Lower Upper
73 100
57 52.7 20.5 30.7





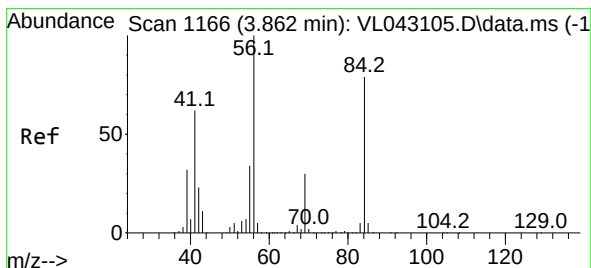
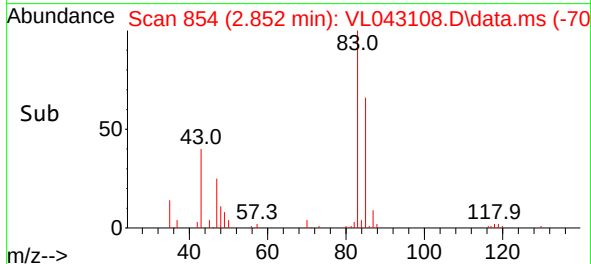
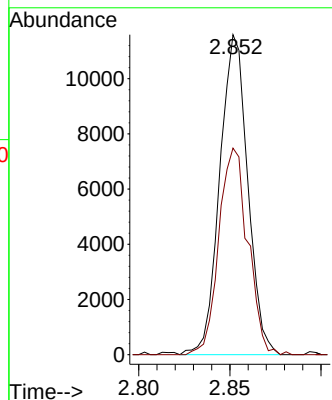
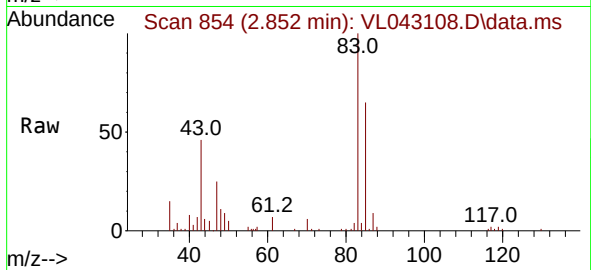
#29
Chloroform
Concen: 0.546 ppbv
RT: 2.852 min Scan# 854
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 83 Resp: 12384
Ion Ratio Lower Upper
83 100
85 64.5 51.8 77.6

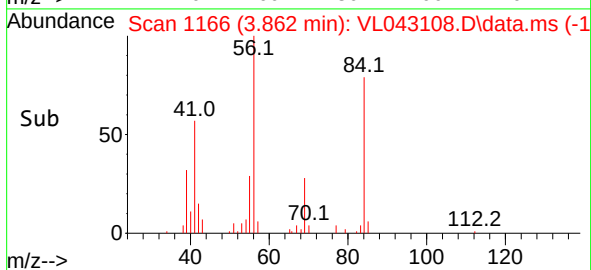
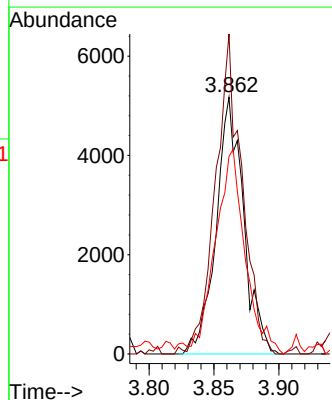
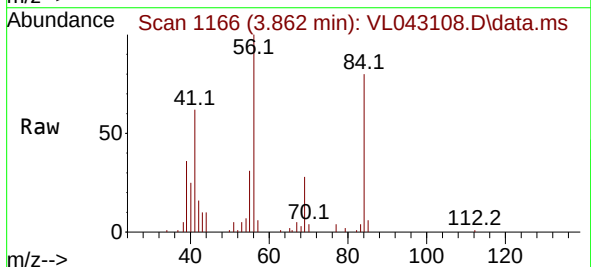
Manual Integrations
APPROVED

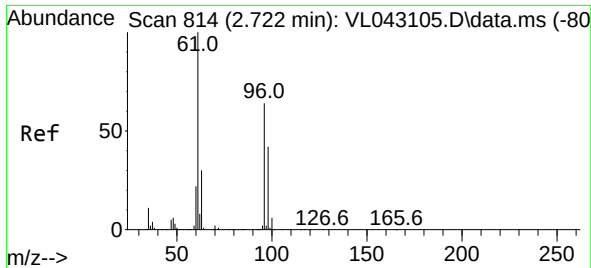
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#30
Cyclohexane
Concen: 0.556 ppbv m
RT: 3.862 min Scan# 1166
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

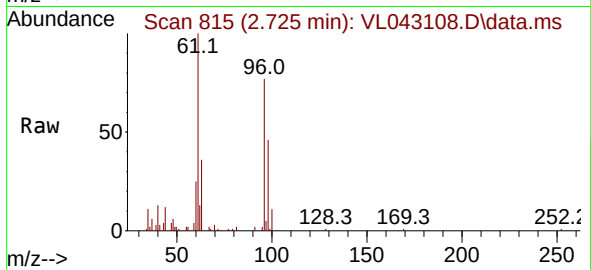
Tgt Ion: 84 Resp: 7586
Ion Ratio Lower Upper
84 100
56 121.2 100.9 151.3
41 91.7 63.8 95.6





#31
 cis-1,2-Dichloroethene
 Concen: 0.507 ppbv
 RT: 2.725 min Scan# 814
 Delta R.T. 0.003 min
 Lab File: VL043108.D
 Acq: 14 Oct 2025 12:34

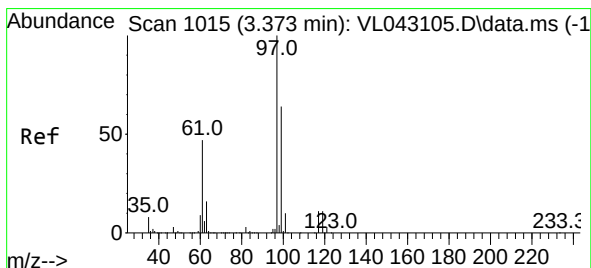
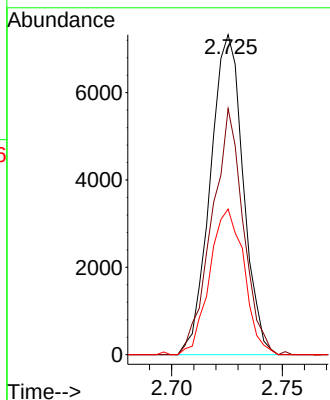
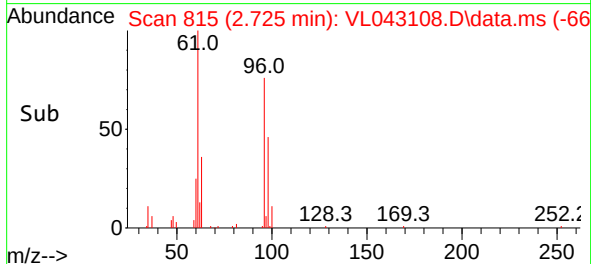
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



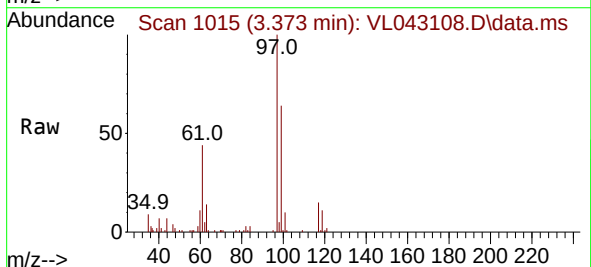
Tgt Ion: 61 Resp: 7570
 Ion Ratio Lower Upper
 61 100
 96 76.9 51.0 76.6
 98 45.5 33.5 50.3

Manual Integrations
 APPROVED

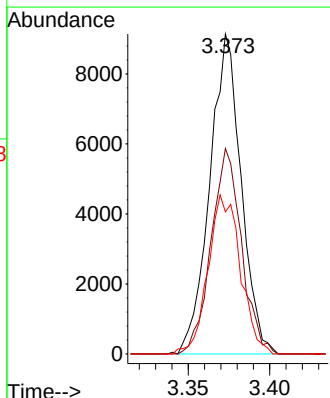
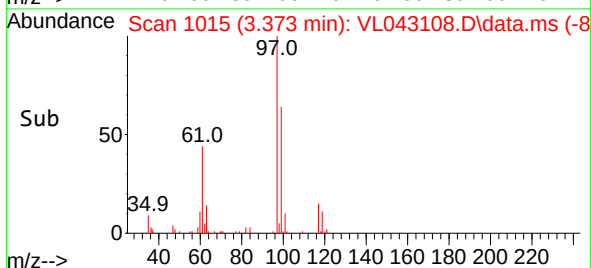
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025

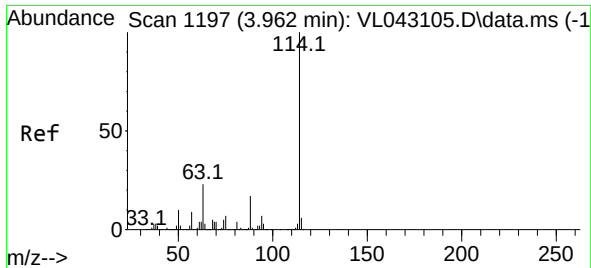


#32
 1,1,1-Trichloroethane
 Concen: 0.518 ppbv
 RT: 3.373 min Scan# 1015
 Delta R.T. -0.000 min
 Lab File: VL043108.D
 Acq: 14 Oct 2025 12:34



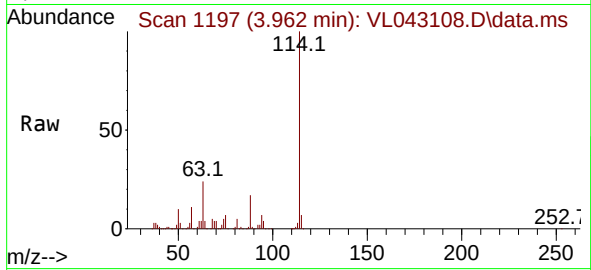
Tgt Ion: 97 Resp: 12234
 Ion Ratio Lower Upper
 97 100
 99 62.0 51.3 76.9
 61 51.2 38.4 57.6





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

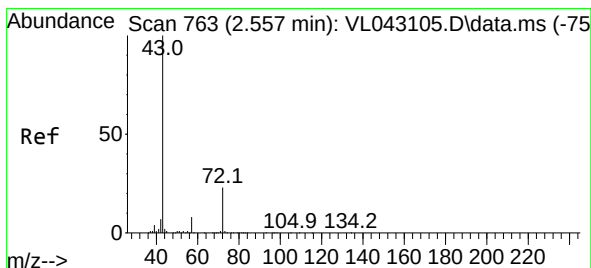
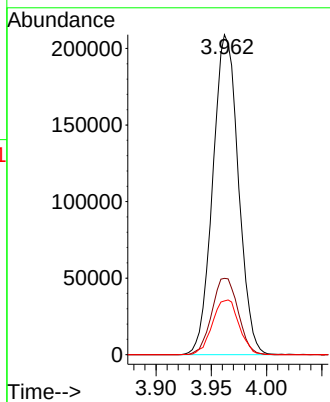
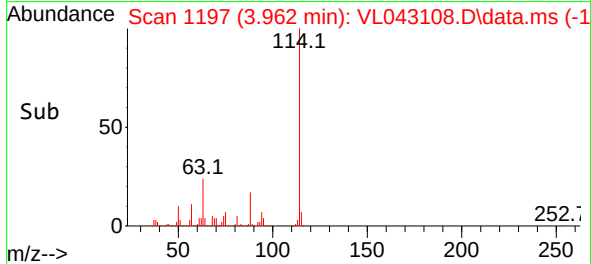
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



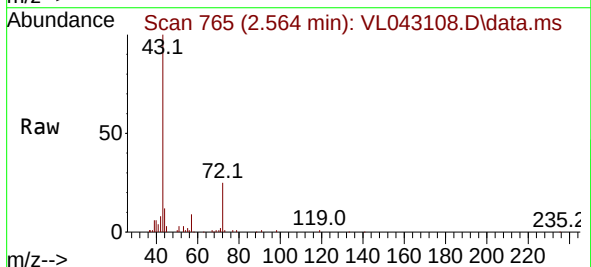
Tgt Ion:114 Resp: 336188
Ion Ratio Lower Upper
114 100
63 24.6 19.3 28.9
88 17.9 13.9 20.9

Manual Integrations
APPROVED

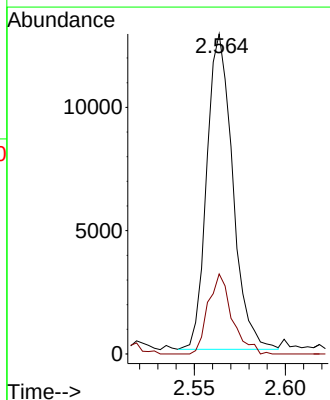
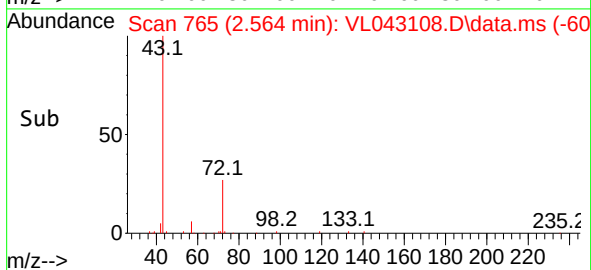
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

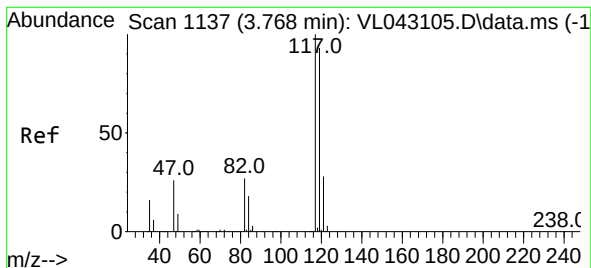


#34
2-Butanone
Concen: 0.557 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.006 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34



Tgt Ion: 43 Resp: 12659
Ion Ratio Lower Upper
43 100
72 23.4 18.4 27.6





#35

Carbon Tetrachloride

Concen: 0.494 ppbv

RT: 3.768 min Scan# 1137

Delta R.T. -0.000 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Instrument :

MSVOA_L

ClientSampleId :

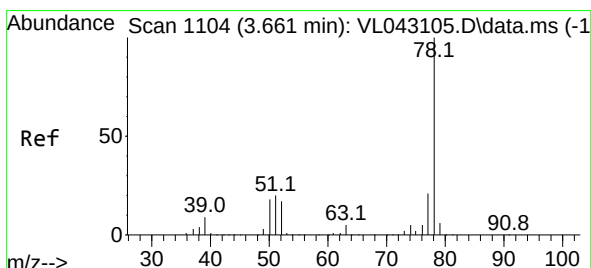
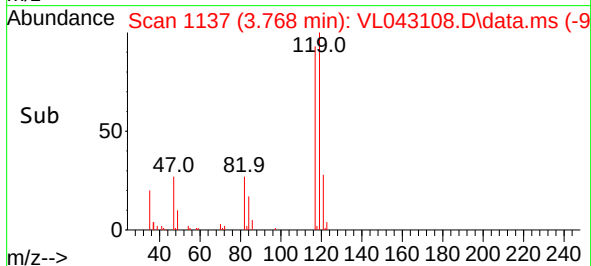
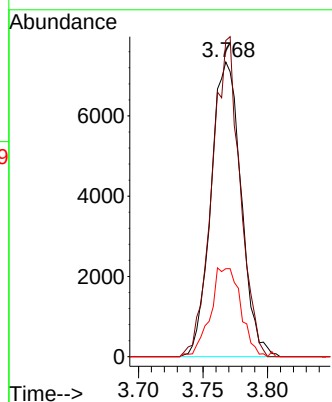
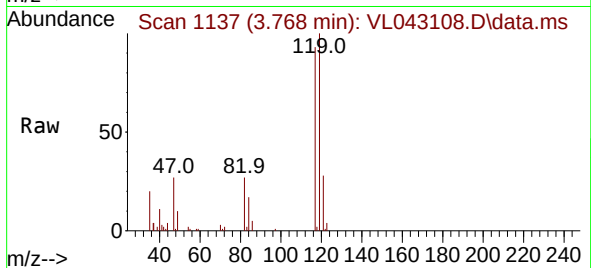
VSTDICC0.5

Tgt Ion: 117	Resp: 1193
Ion Ratio	Lower Upper
117 100	
119 107.3	74.1 111.1
121 29.9	22.2 33.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#36

Benzene

Concen: 0.517 ppbv

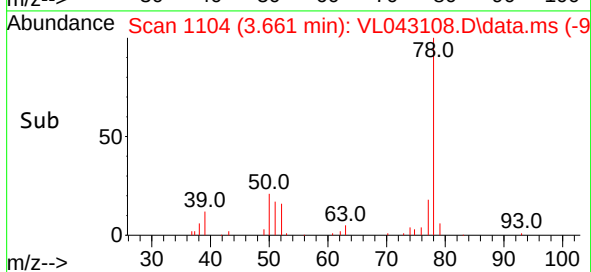
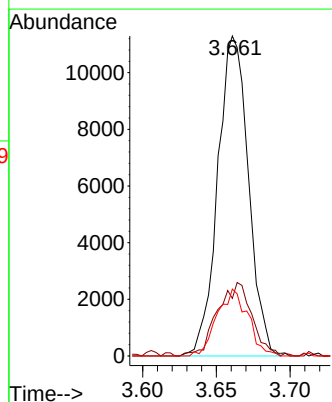
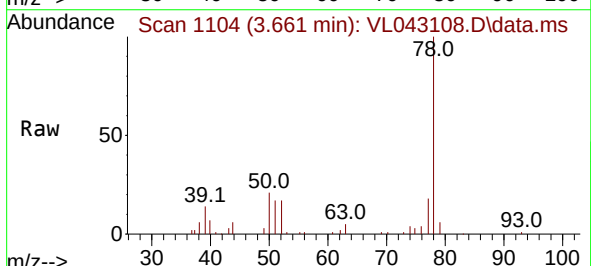
RT: 3.661 min Scan# 1104

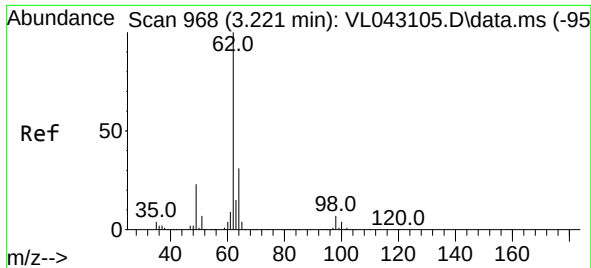
Delta R.T. -0.000 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Tgt Ion: 78	Resp: 16376
Ion Ratio	Lower Upper
78 100	
77 18.0	17.0 25.6
50 20.9	14.6 22.0





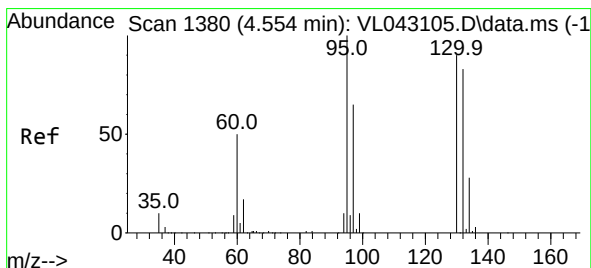
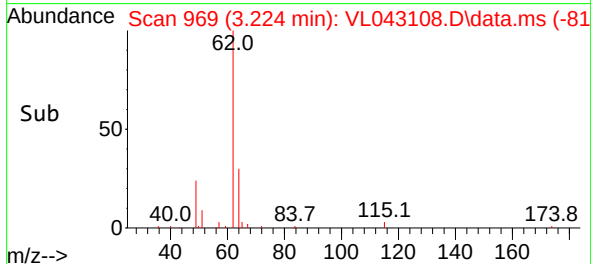
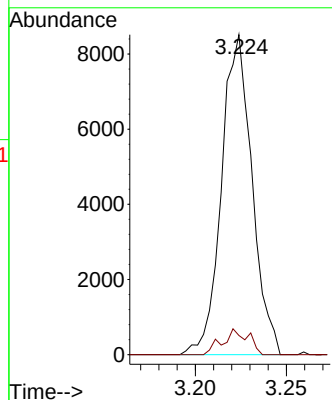
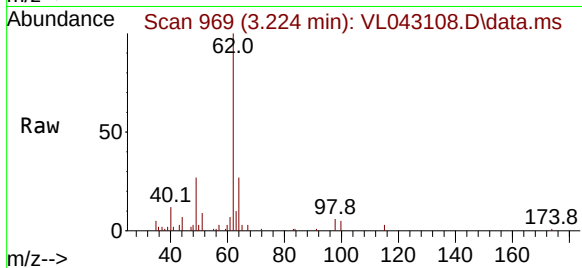
#37
1,2-Dichloroethane
Concen: 0.543 ppbv
RT: 3.224 min Scan# 968
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 62 Resp: 990
Ion Ratio Lower Upper
62 100
98 6.8 5.8 8.6

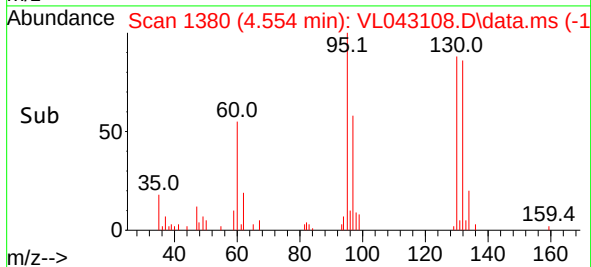
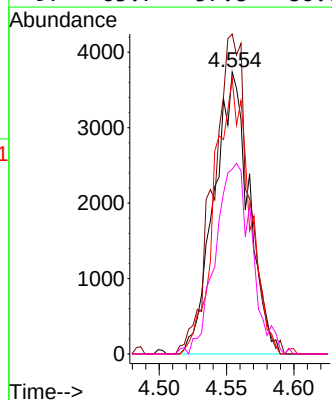
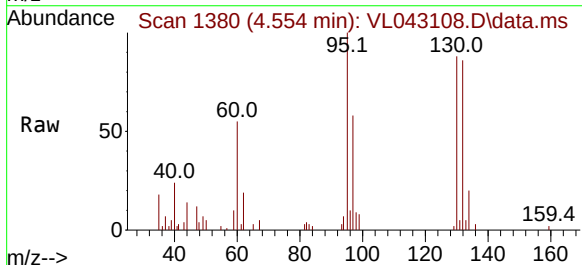
Manual Integrations
APPROVED

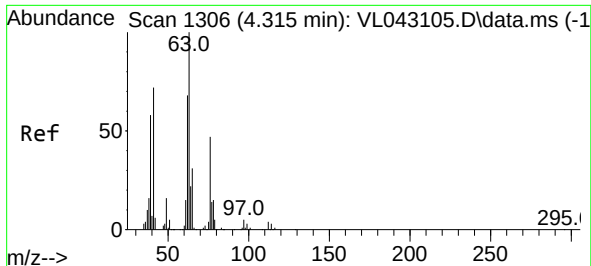
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#38
Trichloroethene
Concen: 0.511 ppbv
RT: 4.554 min Scan# 1380
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion:130 Resp: 6745
Ion Ratio Lower Upper
130 100
95 110.7 88.6 133.0
132 97.8 73.4 110.0
97 63.7 57.8 86.6





#39

1,2-Dichloropropane

Concen: 0.521 ppbv

RT: 4.318 min Scan# 1306

Delta R.T. 0.003 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Instrument :

MSVOA_L

ClientSampleId :

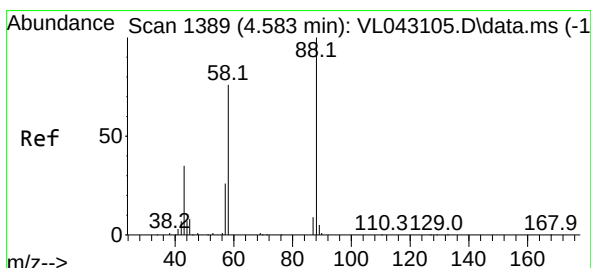
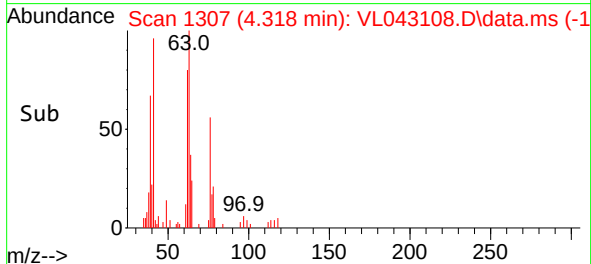
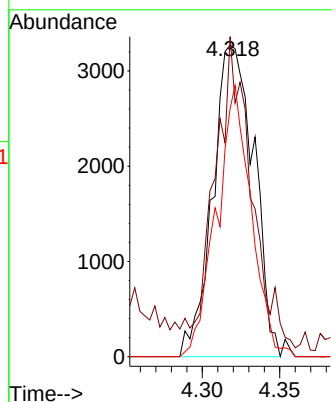
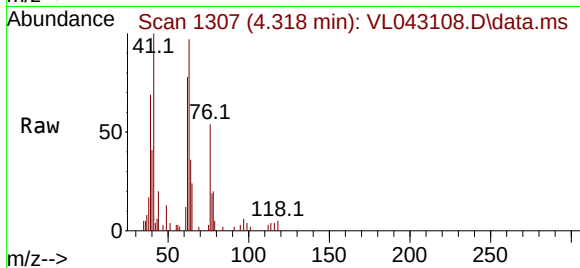
VSTDICC0.5

Tgt Ion:	63	Resp:	603
Ion	Ratio	Lower	Upper
63	100		
41	93.9	58.0	87.0
62	79.6	54.7	82.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#40

1,4-Dioxane

Concen: 0.539 ppbv m

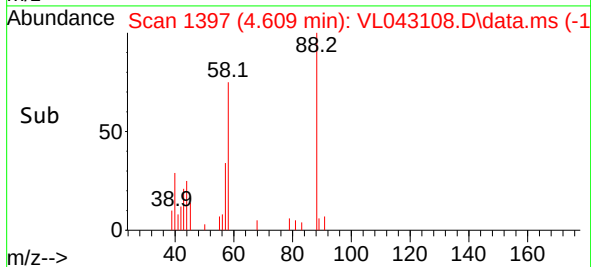
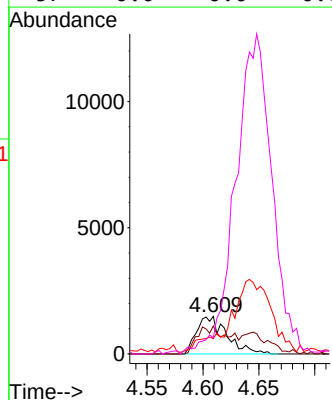
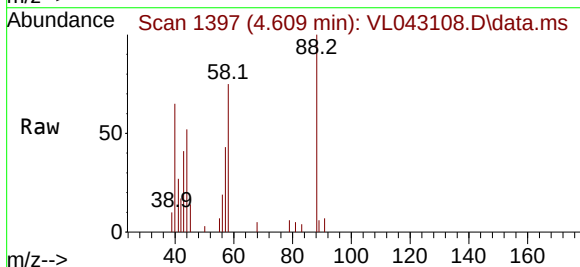
RT: 4.609 min Scan# 1397

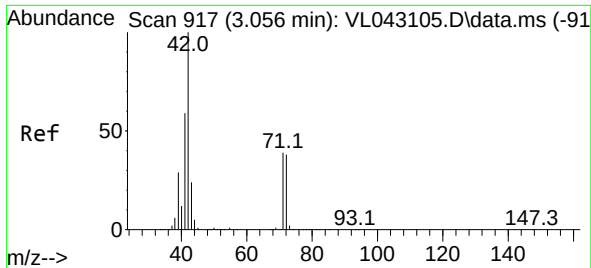
Delta R.T. 0.026 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

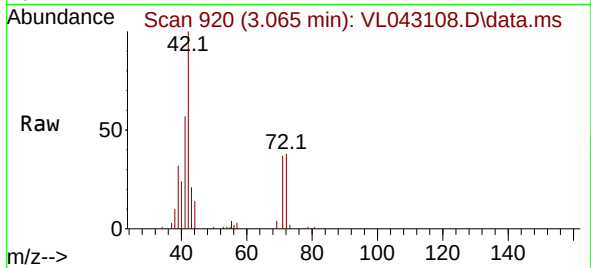
Tgt Ion:	88	Resp:	2794
Ion	Ratio	Lower	Upper
88	100		
58	0.0	61.1	91.7#
43	11.4	24.0	36.0#
57	0.0	0.0	0.0





#41
Tetrahydrofuran
Concen: 0.565 ppbv m
RT: 3.065 min Scan# 917
Delta R.T. 0.009 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

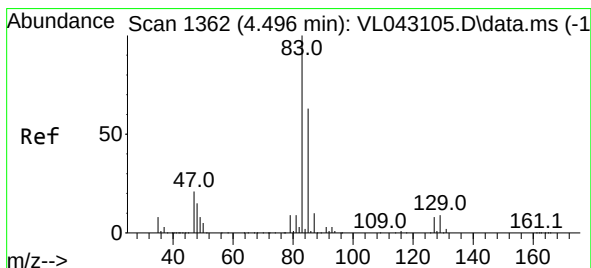
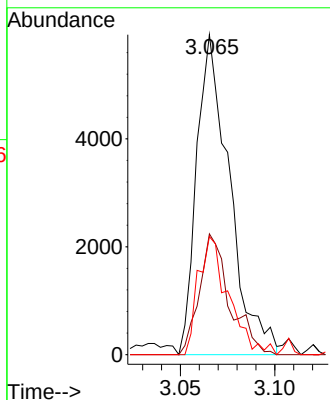
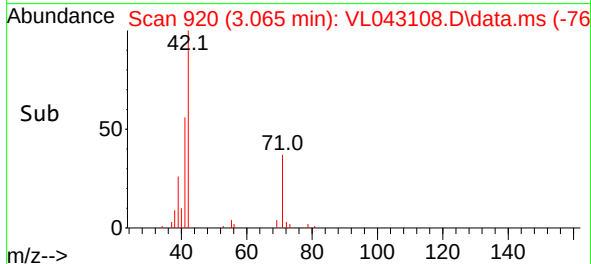
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



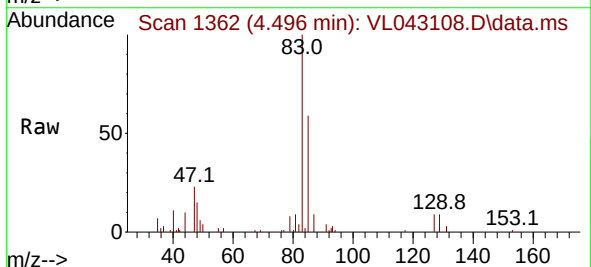
Tgt Ion: 42 Resp: 7174
Ion Ratio Lower Upper
42 100
72 34.8 31.3 46.9
71 35.5 30.4 45.6

Manual Integrations
APPROVED

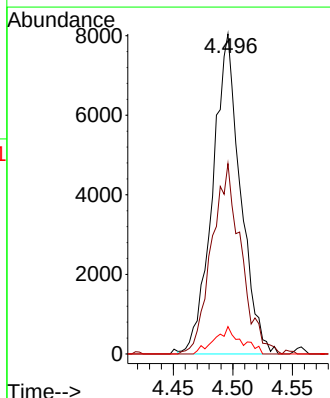
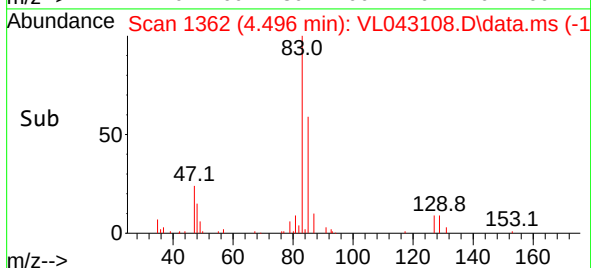
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

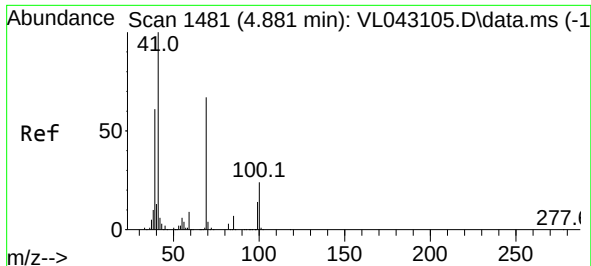


#42
Bromodichloromethane
Concen: 0.519 ppbv
RT: 4.496 min Scan# 1362
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34



Tgt Ion: 83 Resp: 13094
Ion Ratio Lower Upper
83 100
85 59.5 50.6 75.8
127 8.5 6.3 9.5





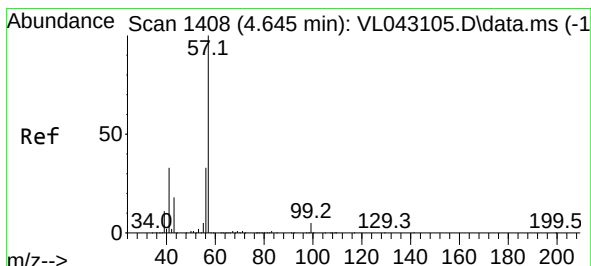
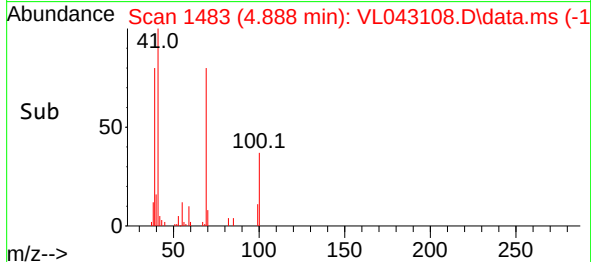
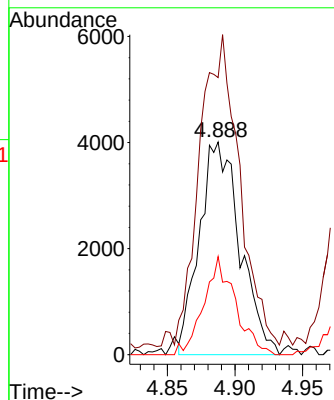
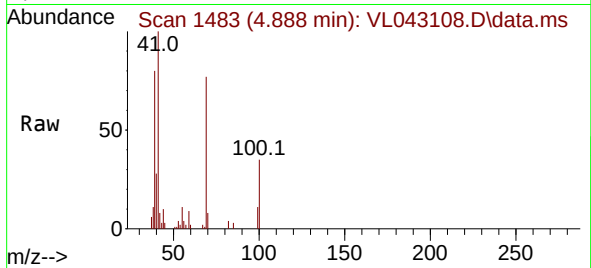
#43
Methyl Methacrylate
Concen: 0.521 ppbv m
RT: 4.888 min Scan# 1481
Delta R.T. 0.006 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 69 Resp: 841
Ion Ratio Lower Upper
69 100
41 0.0 120.5 180.7
100 35.6 29.0 43.4

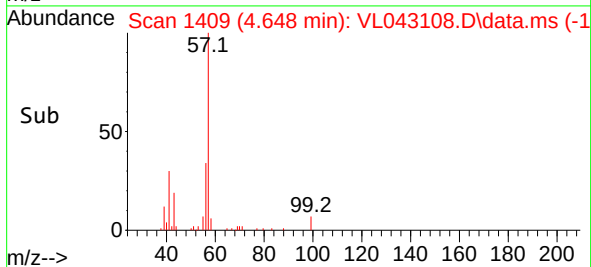
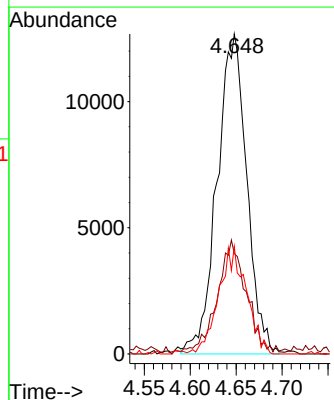
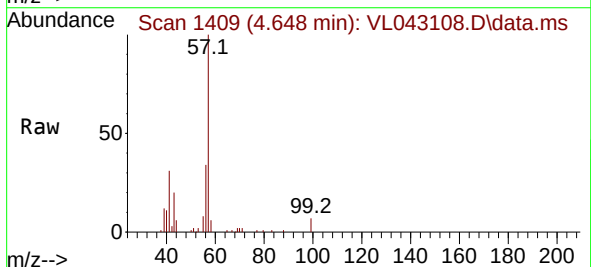
Manual Integrations
APPROVED

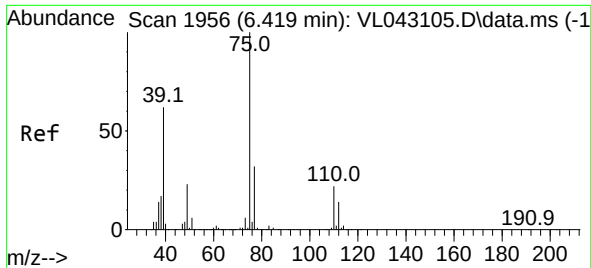
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#44
2,2,4-Trimethylpentane
Concen: 0.538 ppbv m
RT: 4.648 min Scan# 1409
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

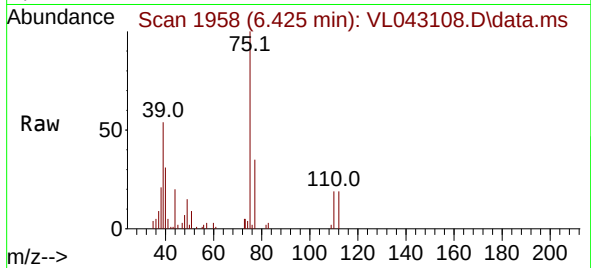
Tgt Ion: 57 Resp: 28494
Ion Ratio Lower Upper
57 100
41 32.8 26.3 39.5
56 32.0 25.9 38.9





#45
t-1,3-Dichloropropene
Concen: 0.498 ppbv
RT: 6.425 min Scan# 1956
Delta R.T. 0.006 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

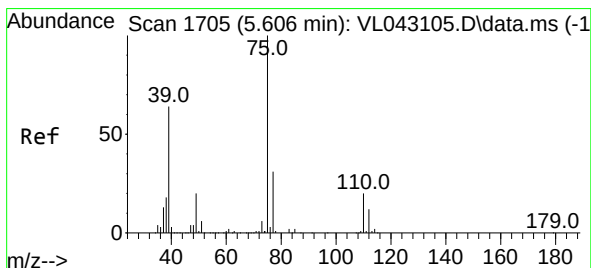
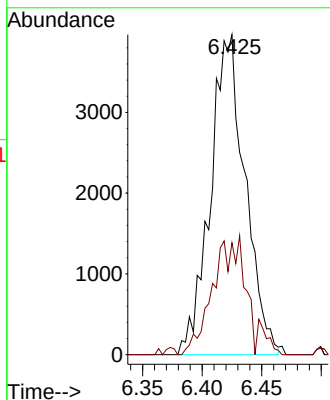
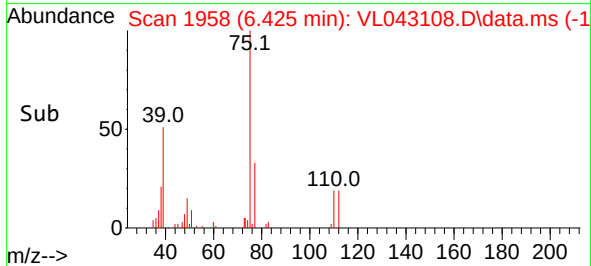
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



Tgt Ion: 75 Resp: 8030
Ion Ratio Lower Upper
75 100
77 34.9 25.4 38.2

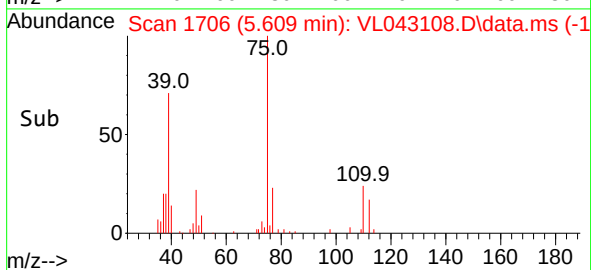
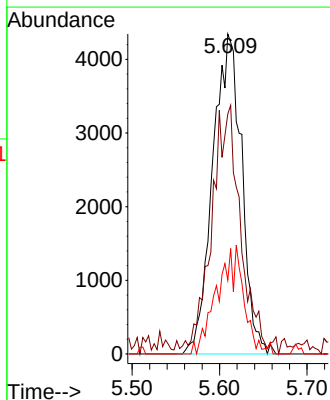
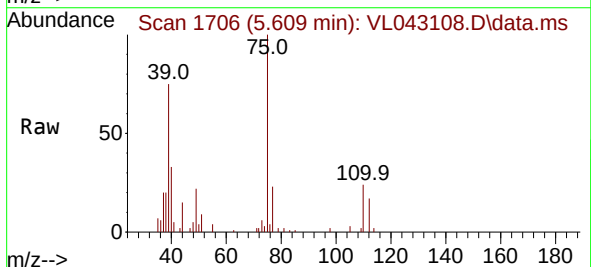
Manual Integrations
APPROVED

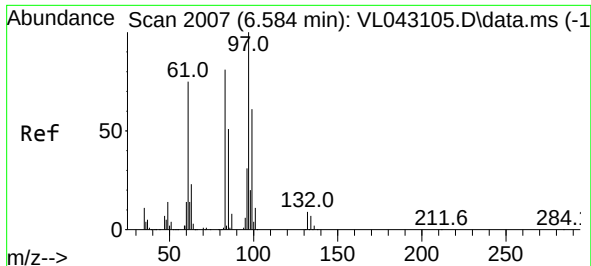
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#46
cis-1,3-Dichloropropene
Concen: 0.518 ppbv m
RT: 5.609 min Scan# 1706
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

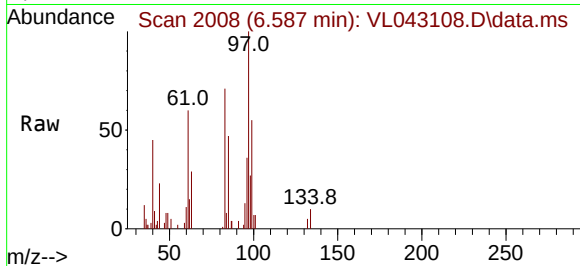
Tgt Ion: 75 Resp: 9973
Ion Ratio Lower Upper
75 100
39 75.0 51.0 76.6
77 23.1 25.0 37.4#





#47
1,1,2-Trichloroethane
Concen: 0.560 ppbv
RT: 6.587 min Scan# 2007
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

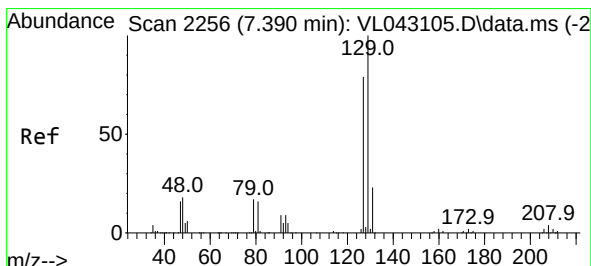
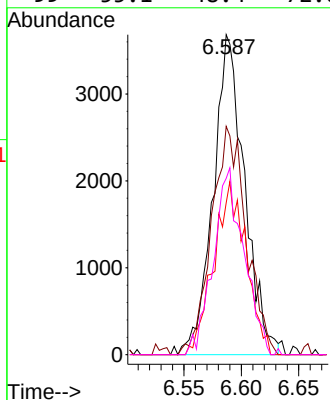
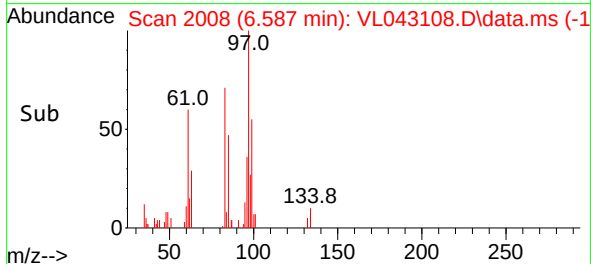
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



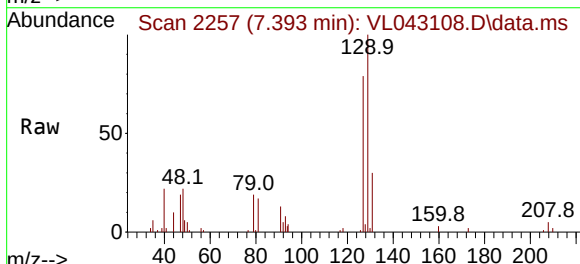
Tgt Ion: 97 Resp: 6990
Ion Ratio Lower Upper
97 100
83 71.4 64.6 96.8
85 47.5 40.6 60.8
99 55.1 48.4 72.6

Manual Integrations
APPROVED

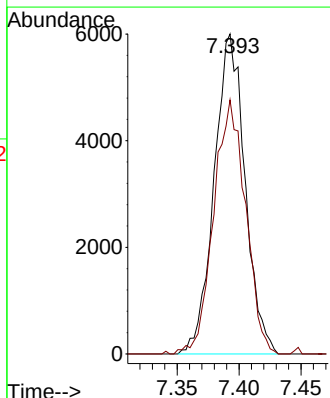
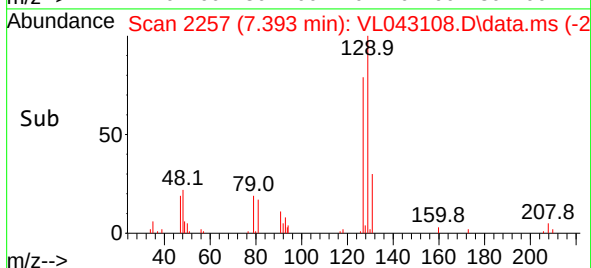
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

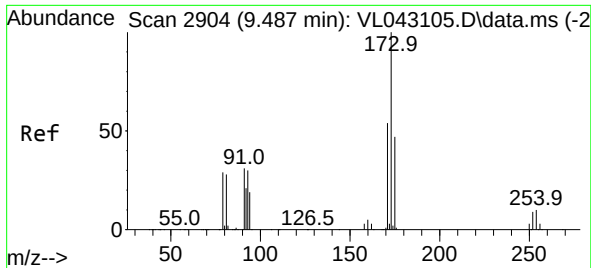


#48
Dibromochloromethane
Concen: 0.498 ppbv
RT: 7.393 min Scan# 2257
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34



Tgt Ion:129 Resp: 10413
Ion Ratio Lower Upper
129 100
127 82.2 39.3 117.9





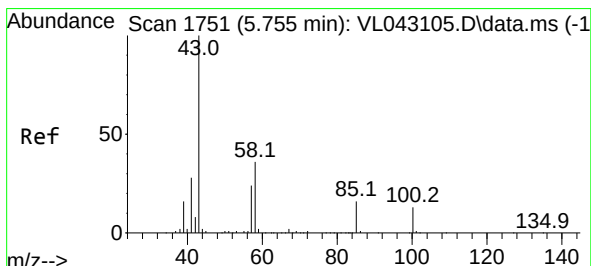
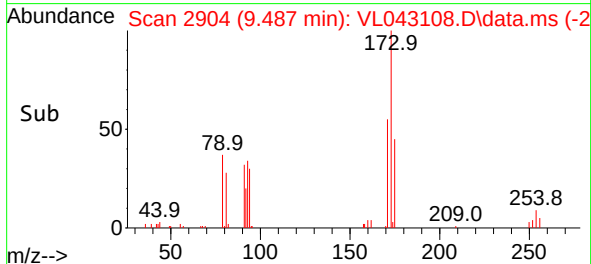
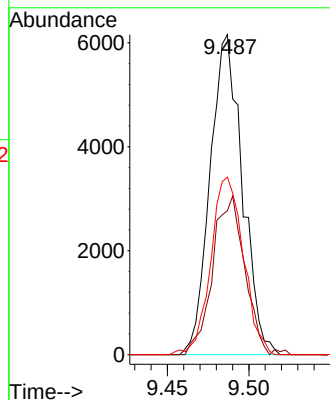
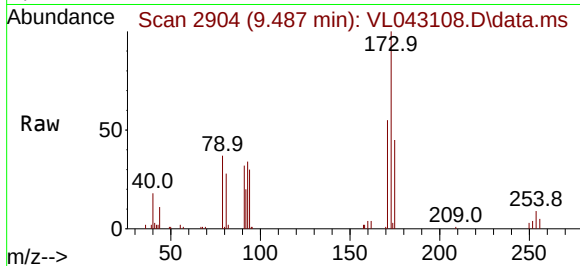
#49
Bromoform
Concen: 0.498 ppbv
RT: 9.487 min Scan# 2904
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:173 Resp: 845
Ion Ratio Lower Upper
173 100
175 49.6 38.8 58.2
171 56.3 41.7 62.5

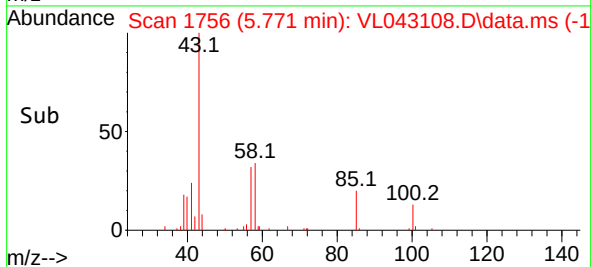
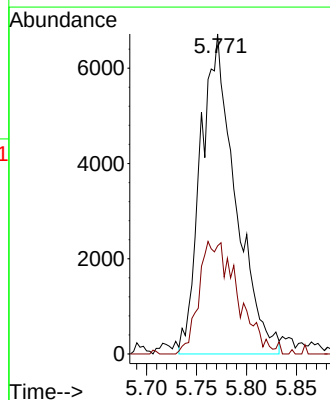
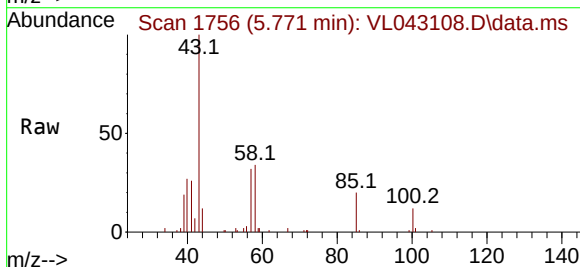
Manual Integrations
APPROVED

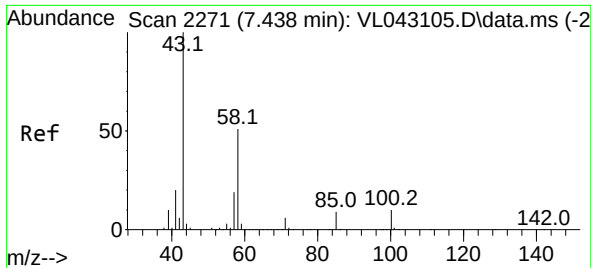
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#50
4-Methyl-2-Pentanone
Concen: 0.520 ppbv m
RT: 5.771 min Scan# 1756
Delta R.T. 0.016 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 43 Resp: 16289
Ion Ratio Lower Upper
43 100
58 0.0 29.1 43.7#





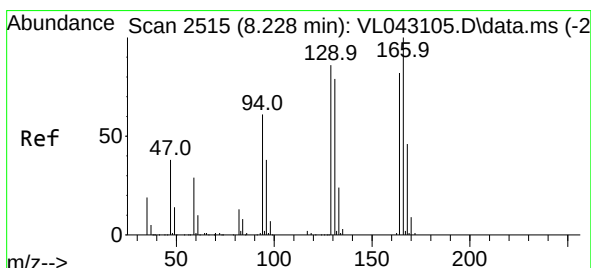
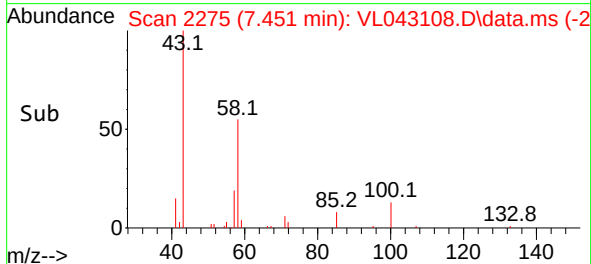
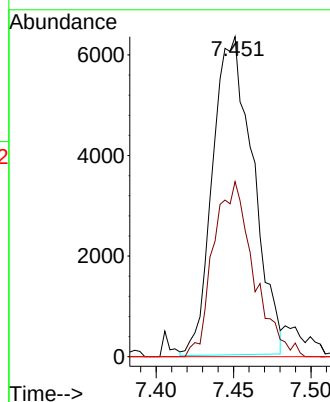
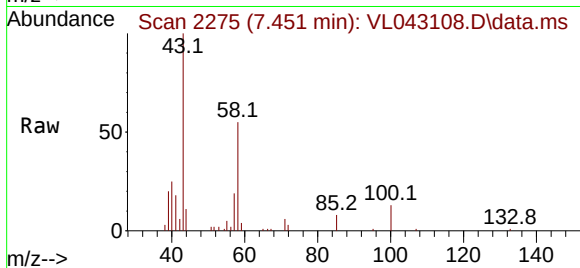
#51
2-Hexanone
Concen: 0.491 ppbv
RT: 7.451 min Scan# 21148
Delta R.T. 0.013 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 43 Resp: 1148
Ion Ratio Lower Upper
43 100
58 54.7 40.4 60.6
98 0.0 0.1 0.1

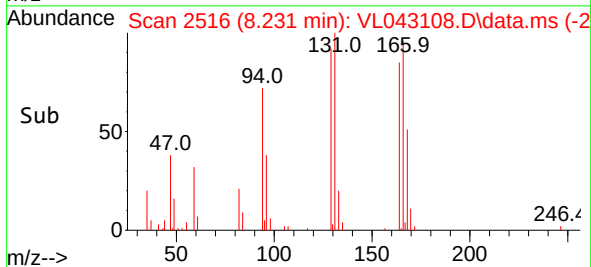
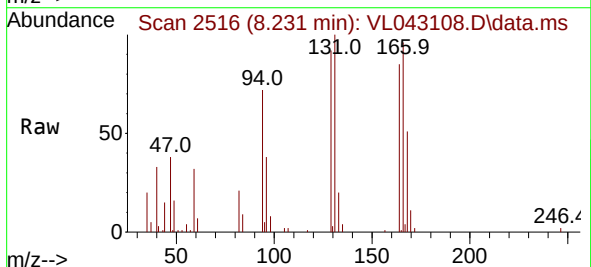
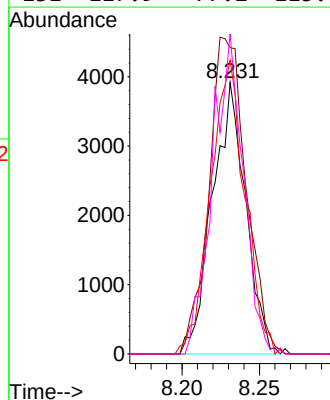
Manual Integrations
APPROVED

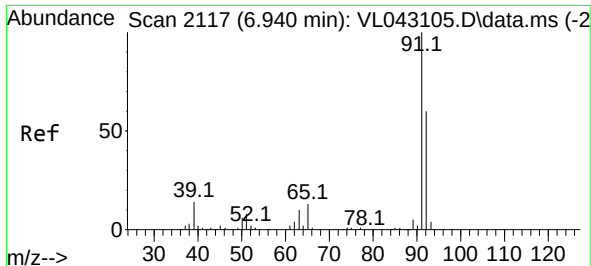
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#52
Tetrachloroethene
Concen: 0.513 ppbv
RT: 8.231 min Scan# 2516
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

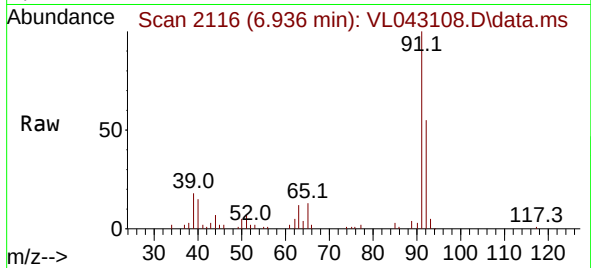
Tgt Ion:164 Resp: 5863
Ion Ratio Lower Upper
164 100
166 112.8 97.6 146.4
129 106.1 84.5 126.7
131 117.9 77.2 115.8





#53
Toluene
Concen: 0.542 ppbv
RT: 6.936 min Scan# 2117
Delta R.T. -0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

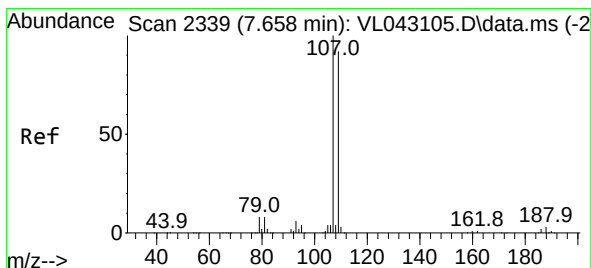
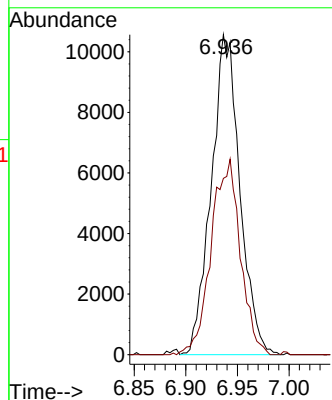
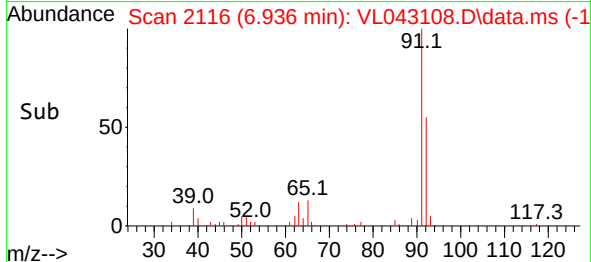
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



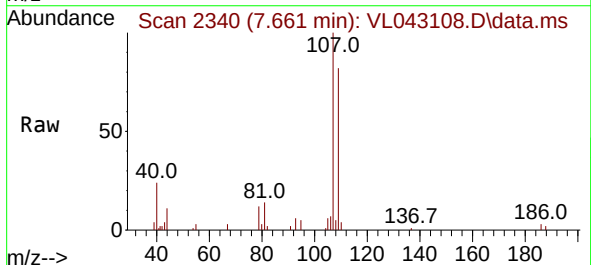
Tgt Ion: 91 Resp: 20380
Ion Ratio Lower Upper
91 100
92 62.1 48.8 73.2

Manual Integrations
APPROVED

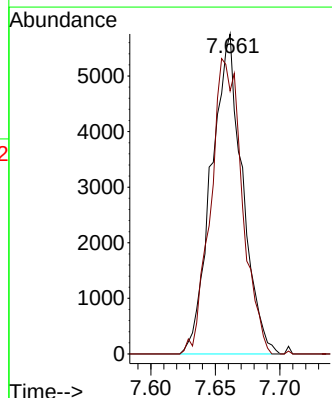
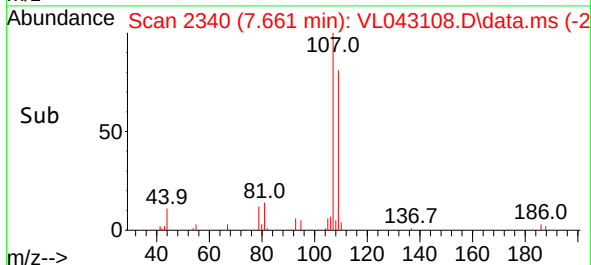
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

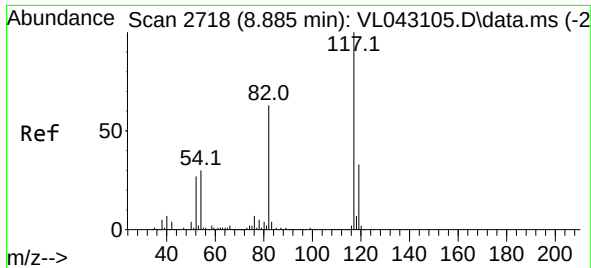


#54
1,2-Dibromoethane
Concen: 0.486 ppbv
RT: 7.661 min Scan# 2340
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34



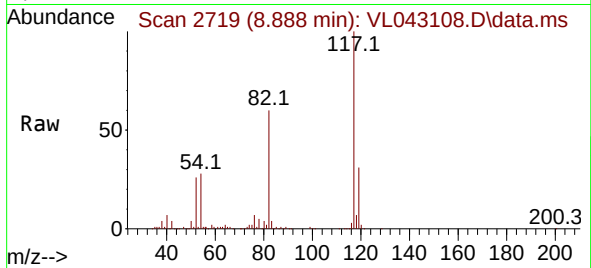
Tgt Ion:107 Resp: 9586
Ion Ratio Lower Upper
107 100
109 82.2 73.4 110.2





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2719
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

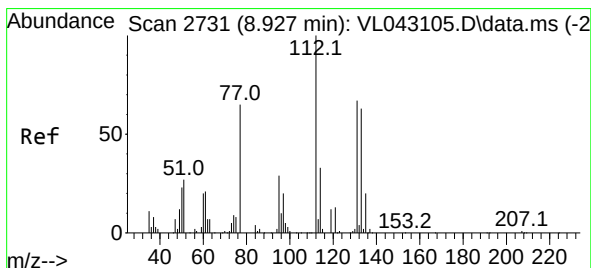
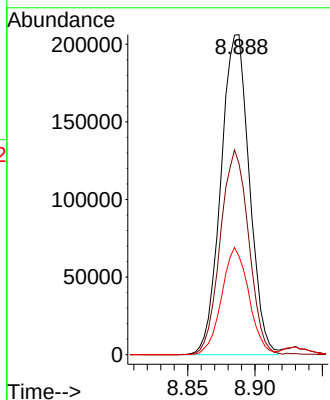
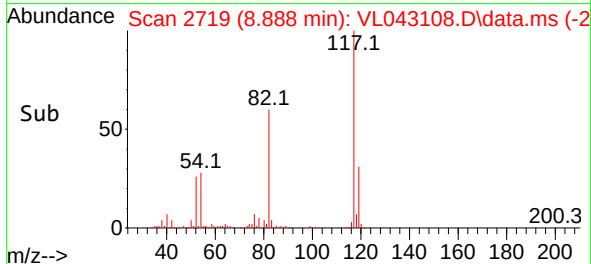
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



Tgt Ion:117 Resp: 30344
Ion Ratio Lower Upper
117 100
82 63.9 53.8 80.8
119 32.1 25.4 38.0

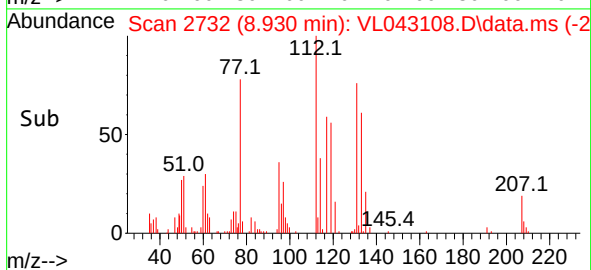
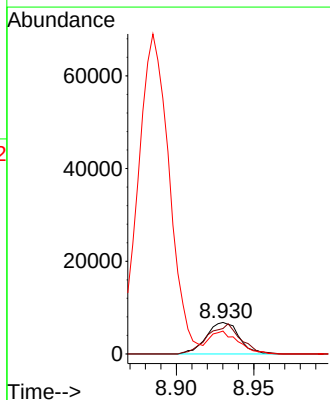
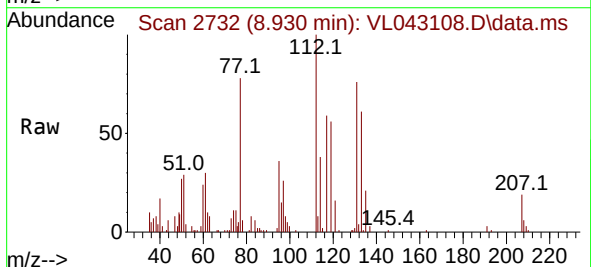
Manual Integrations
APPROVED

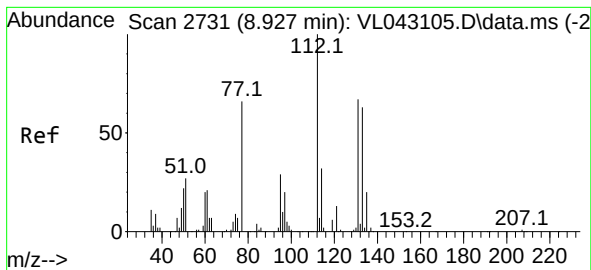
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#56
1,1,1,2-Tetrachloroethane
Concen: 0.525 ppbv
RT: 8.930 min Scan# 2732
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion:131 Resp: 10044
Ion Ratio Lower Upper
131 100
133 94.6 75.7 113.5
119 1032.5 50.6 76.0#





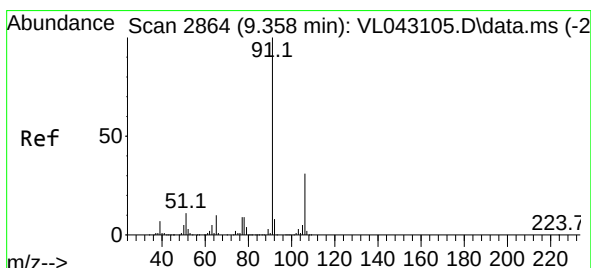
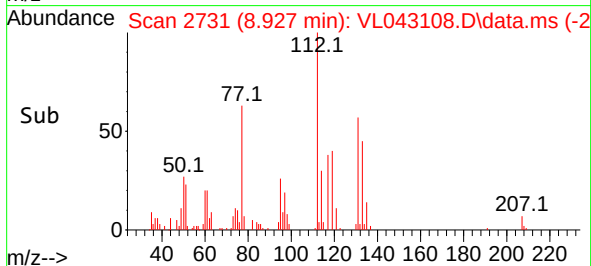
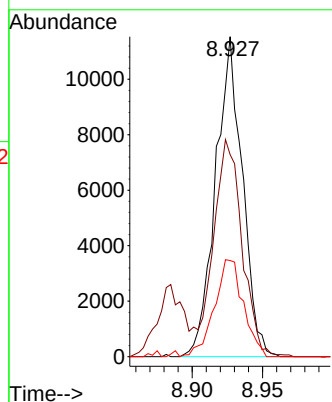
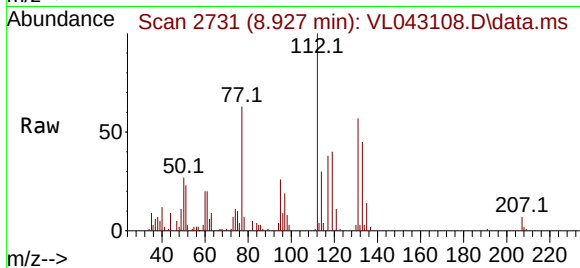
#57
Chlorobenzene
Concen: 0.540 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 112 Resp: 15318
Ion Ratio Lower Upper
112 100
77 62.5 53.3 79.9
114 30.0 29.3 35.8

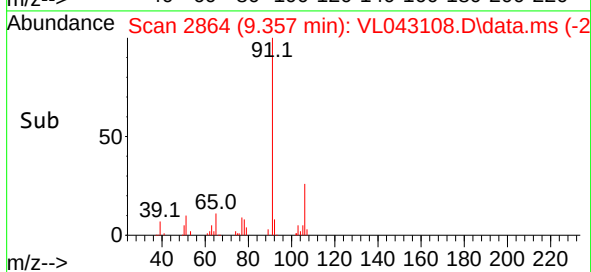
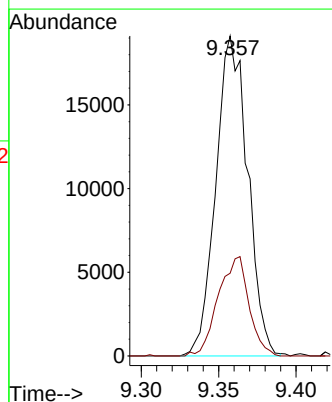
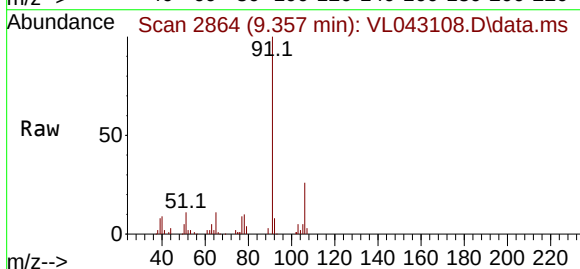
Manual Integrations
APPROVED

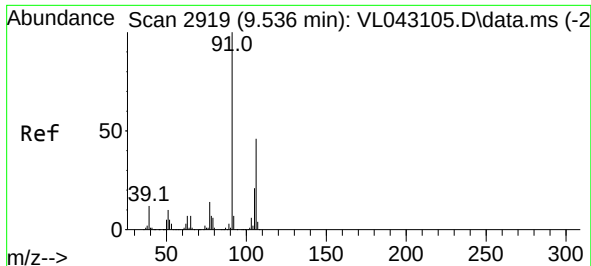
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#58
Ethyl Benzene
Concen: 0.521 ppbv
RT: 9.357 min Scan# 2864
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 91 Resp: 27330
Ion Ratio Lower Upper
91 100
106 25.8 24.8 37.2





#59

m/p-Xylene

Concen: 1.068 ppbv m

RT: 9.539 min Scan# 2919

Delta R.T. 0.003 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5

Tgt Ion: 91 Resp: 4440

Ion Ratio Lower Upper

91 100

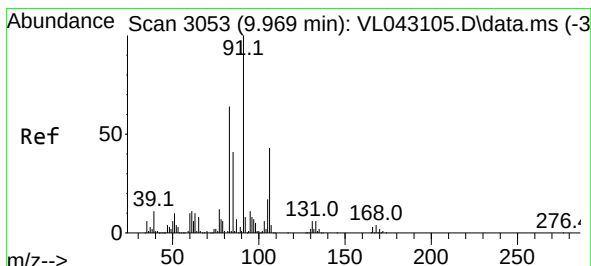
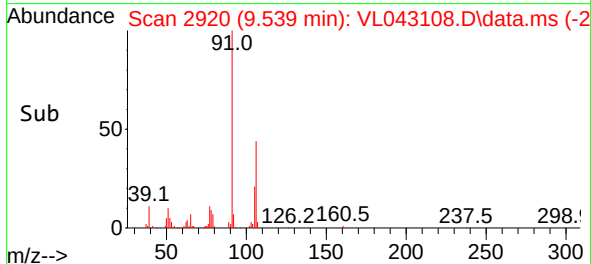
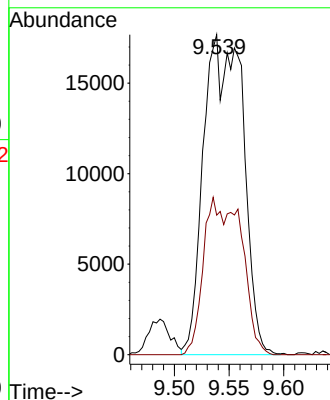
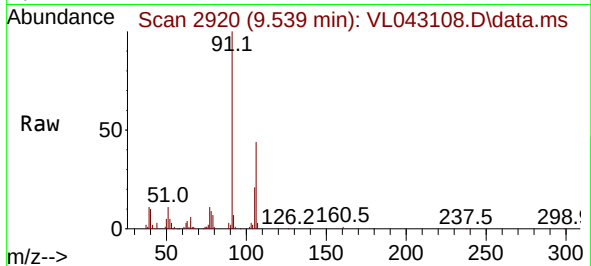
106 47.2 38.0 57.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#60

o-Xylene

Concen: 0.530 ppbv

RT: 9.969 min Scan# 3053

Delta R.T. -0.000 min

Lab File: VL043108.D

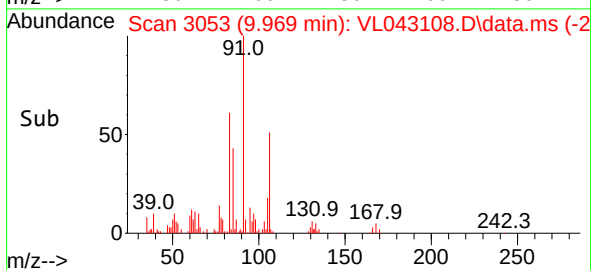
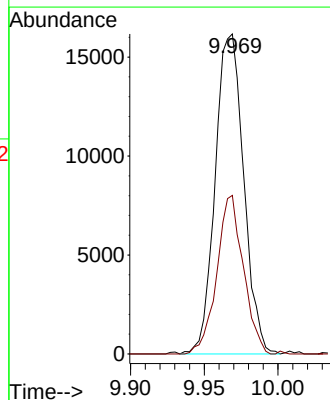
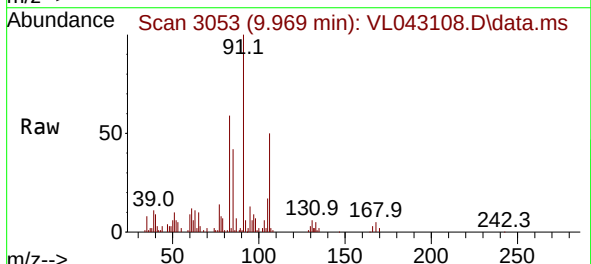
Acq: 14 Oct 2025 12:34

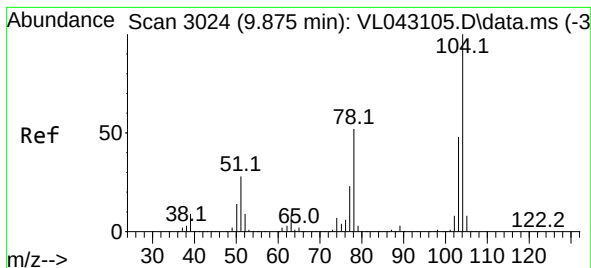
Tgt Ion: 91 Resp: 21745

Ion Ratio Lower Upper

91 100

106 46.2 21.9 65.8





#61

Styrene

Concen: 0.489 ppbv

RT: 9.878 min Scan# 3024

Delta R.T. 0.003 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Instrument :

MSVOA_L

ClientSampleId :

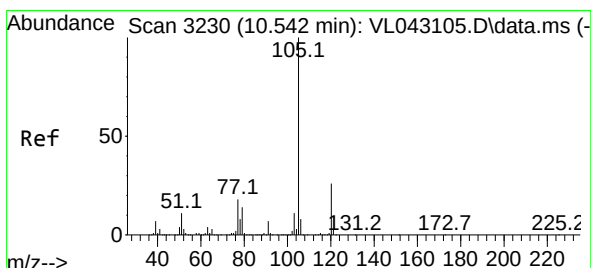
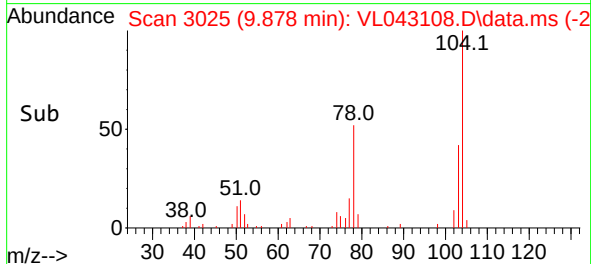
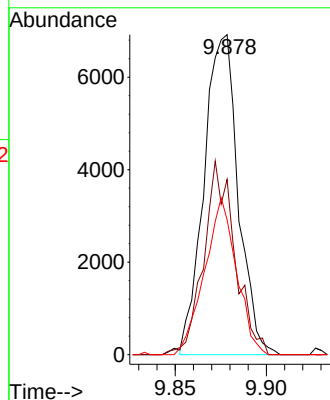
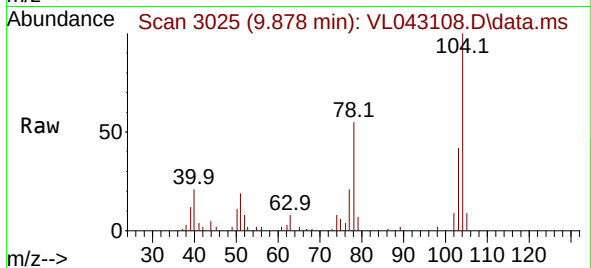
VSTDICC0.5

Tgt Ion:104	Resp:	905
Ion Ratio	Lower	Upper
104	100	
78	55.0	40.2 60.2
103	45.6	36.9 55.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#62

Isopropylbenzene

Concen: 0.525 ppbv

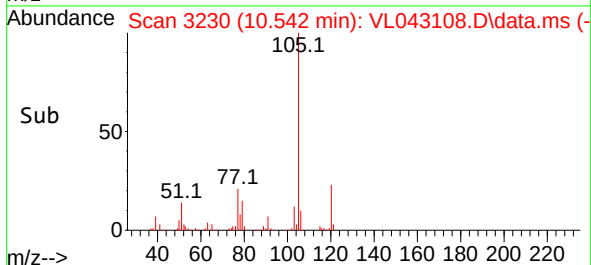
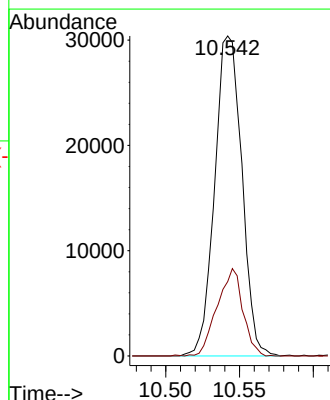
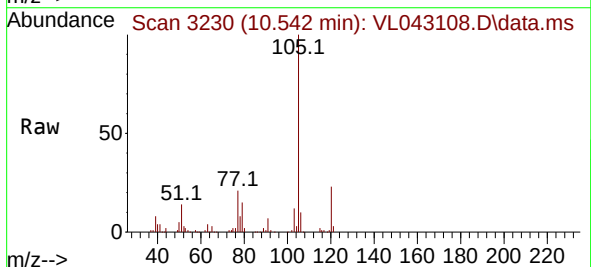
RT: 10.542 min Scan# 3230

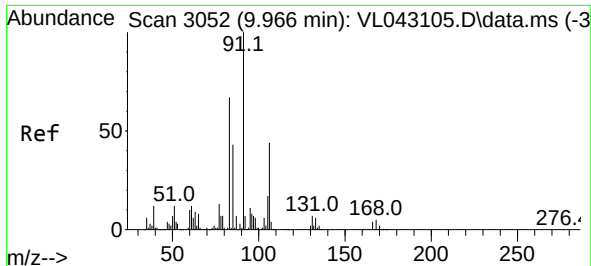
Delta R.T. -0.000 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Tgt Ion:105	Resp:	38899
Ion Ratio	Lower	Upper
105	100	
120	25.8	20.2 30.4





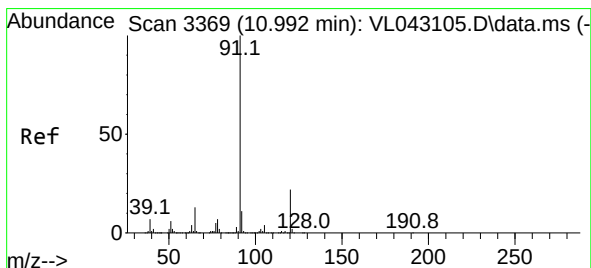
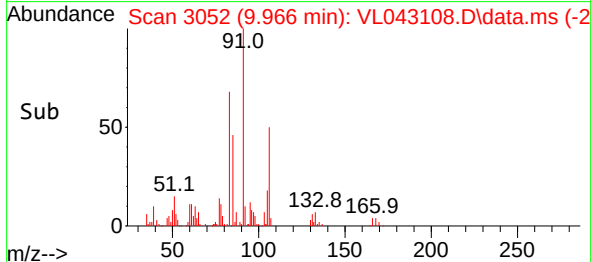
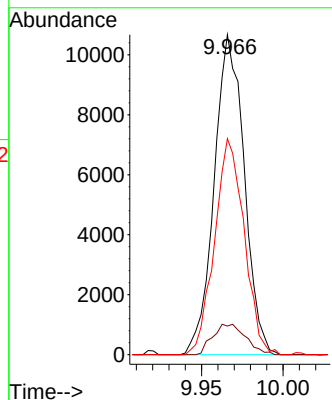
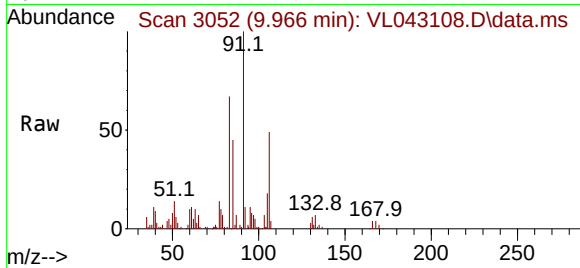
#63
1,1,2,2-Tetrachloroethane
Concen: 0.497 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 83 Resp: 1365
Ion Ratio Lower Upper
83 100
131 10.5 4.8 14.3
85 66.7 32.0 96.0

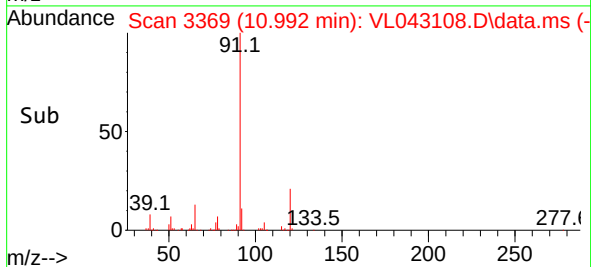
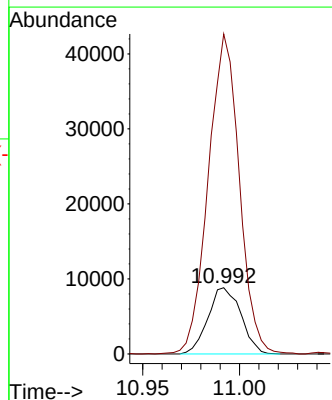
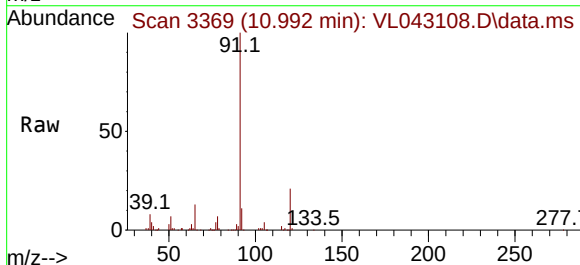
Manual Integrations
APPROVED

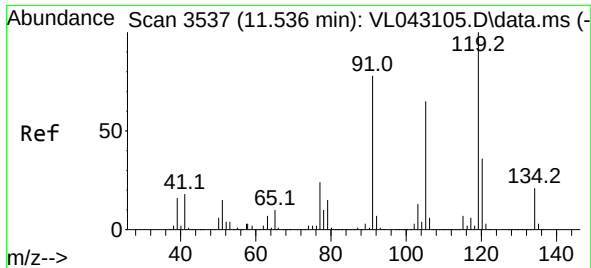
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#64
n-propylbenzene
Concen: 0.532 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion:120 Resp: 10435
Ion Ratio Lower Upper
120 100
91 455.0 361.6 542.4





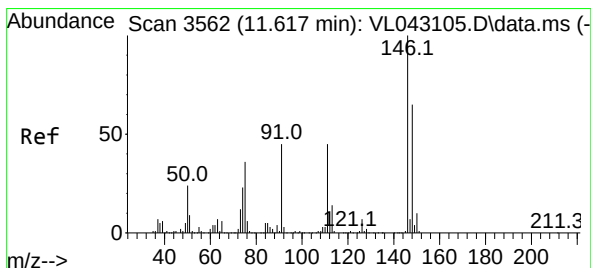
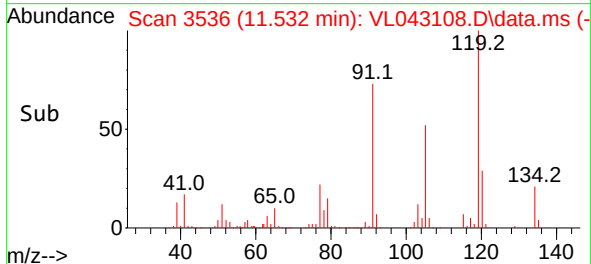
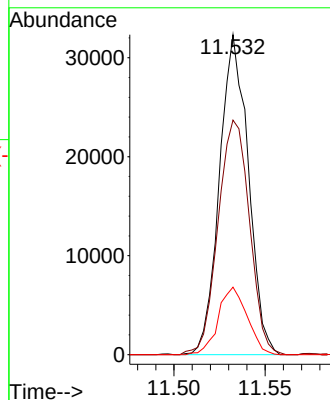
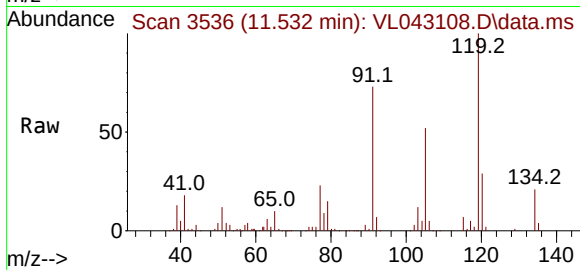
#65
tert-Butylbenzene
Concen: 0.543 ppbv
RT: 11.532 min Scan# 3537
Delta R.T. -0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 119 Resp: 3553
Ion Ratio Lower Upper
119 100
91 80.0 63.4 95.0
134 21.2 17.3 25.9

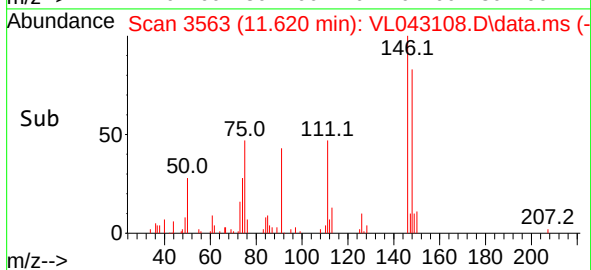
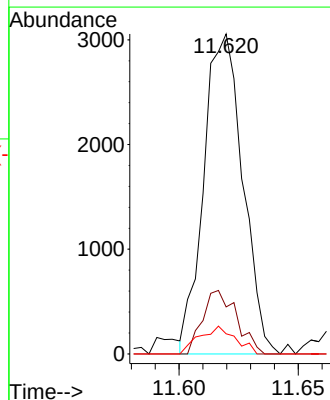
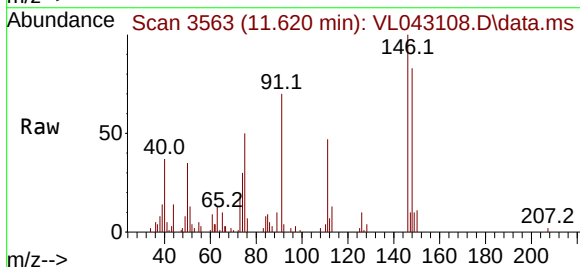
Manual Integrations
APPROVED

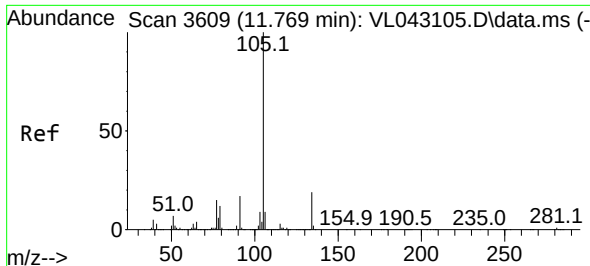
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#66
Benzyl Chloride
Concen: 0.476 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 91 Resp: 3477
Ion Ratio Lower Upper
91 100
126 17.3 14.6 22.0
128 7.9 4.6 6.8





#67

sec-Butylbenzene

Concen: 0.541 ppbv

RT: 11.769 min Scan# 3609

Delta R.T. -0.000 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion:105 Resp: 50259

Ion Ratio Lower Upper

105 100

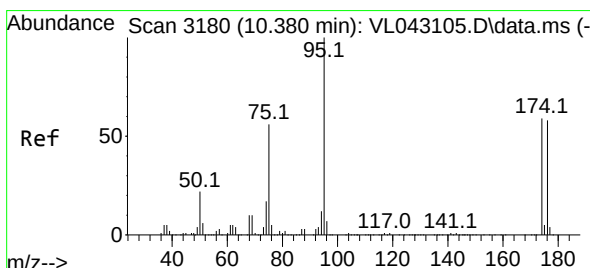
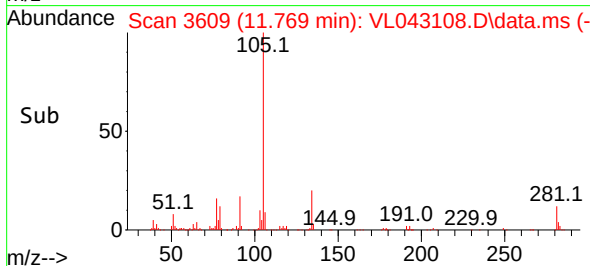
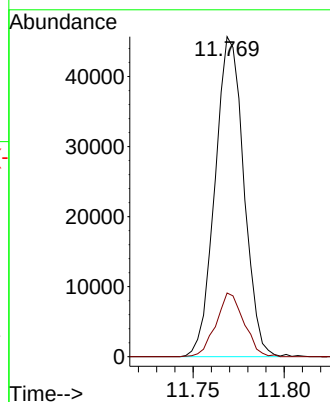
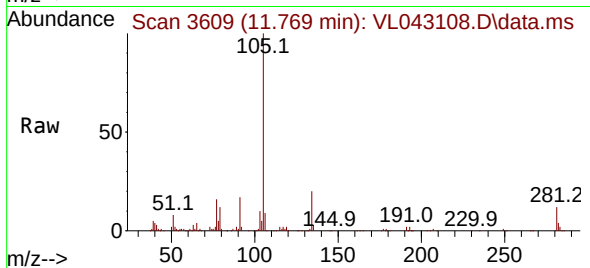
134 19.3 15.5 23.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#68

1-Bromo-4-Fluorobenzene

Concen: 9.875 ppbv

RT: 10.380 min Scan# 3180

Delta R.T. -0.000 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

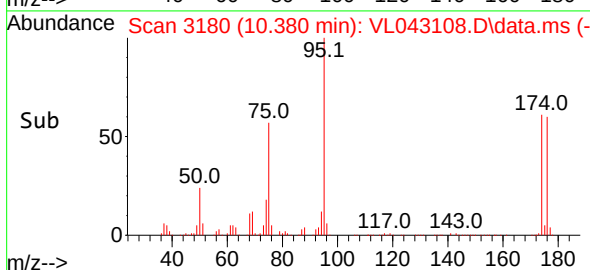
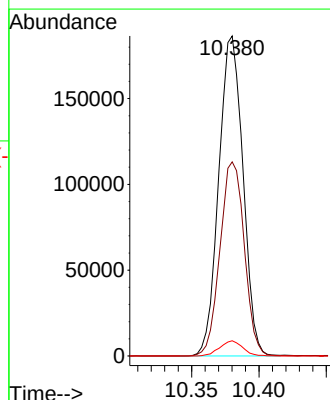
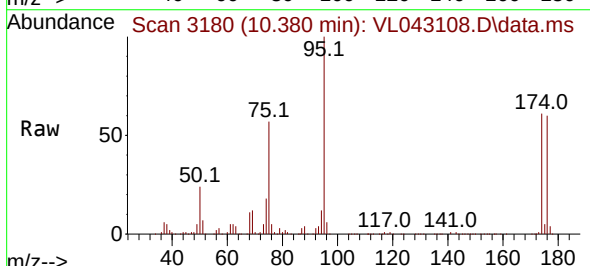
Tgt Ion: 95 Resp: 232904

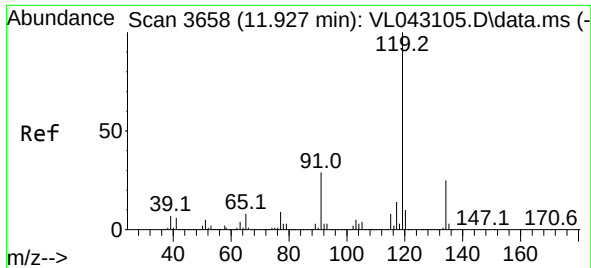
Ion Ratio Lower Upper

95 100

174 61.0 48.3 72.5

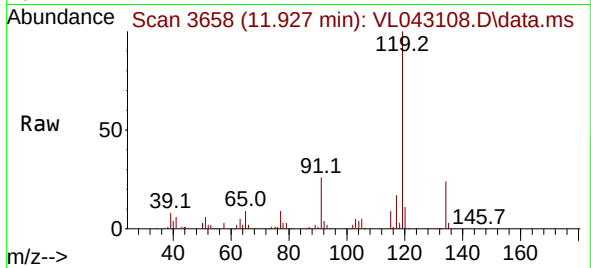
175 4.5 3.8 5.8





#69
p-Isopropyltoluene
Concen: 0.524 ppbv
RT: 11.927 min Scan# 3658
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

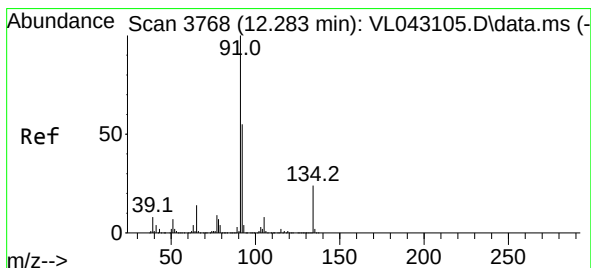
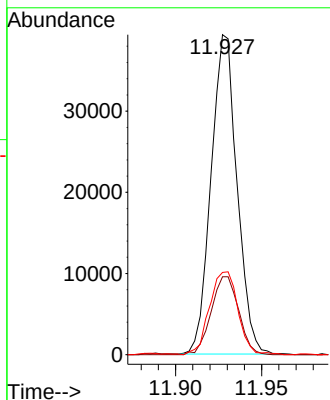
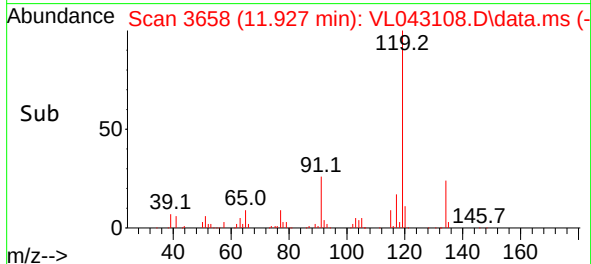
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



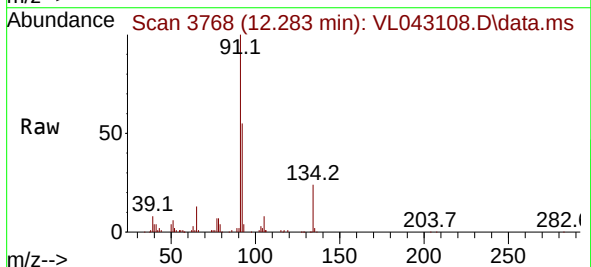
Tgt Ion:119 Resp: 41360
Ion Ratio Lower Upper
119 100
134 25.8 20.3 30.5
91 28.9 22.6 33.8

Manual Integrations
APPROVED

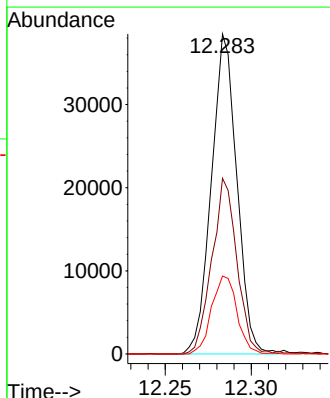
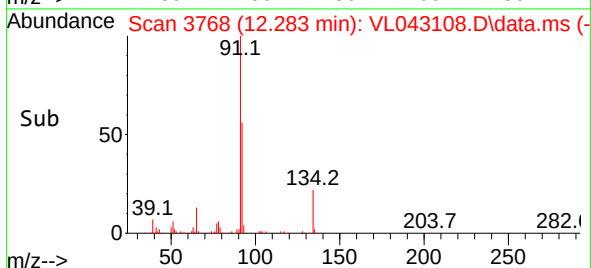
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

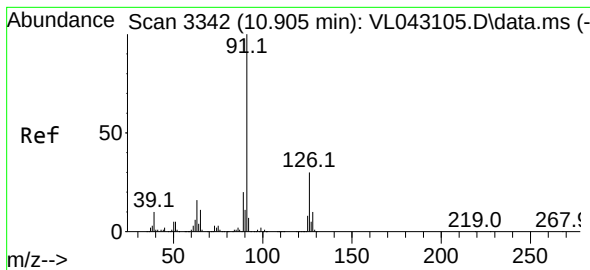


#70
n-Butylbenzene
Concen: 0.509 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34



Tgt Ion: 91 Resp: 39620
Ion Ratio Lower Upper
91 100
92 54.2 44.5 66.7
134 24.4 19.3 28.9





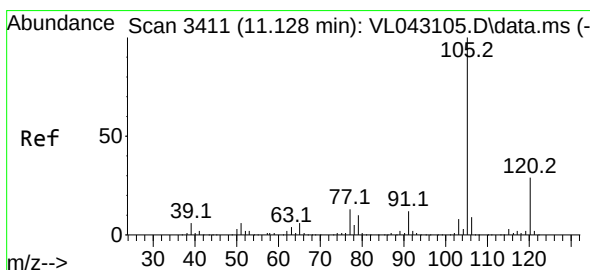
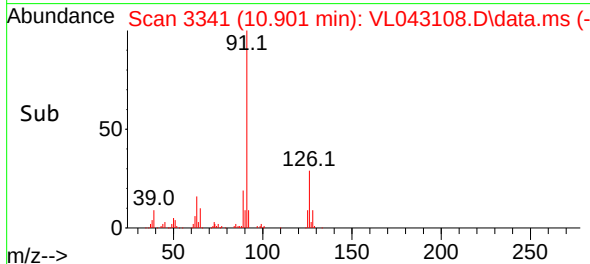
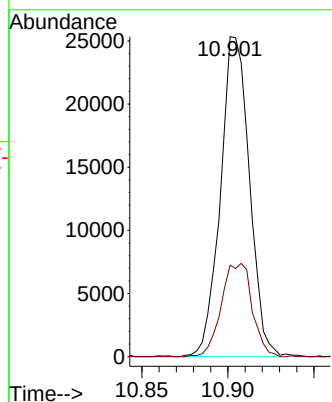
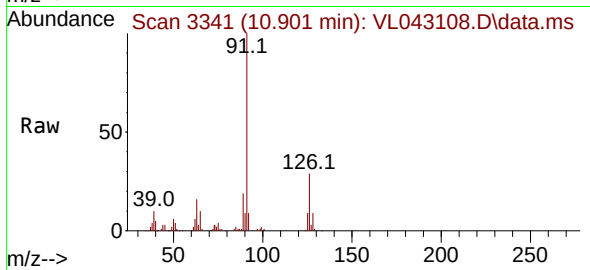
#71
2-Chlorotoluene
Concen: 0.526 ppbv
RT: 10.901 min Scan# 31
Delta R.T. -0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 91 Resp: 2972
Ion Ratio Lower Upper
91 100
126 30.9 12.0 48.0

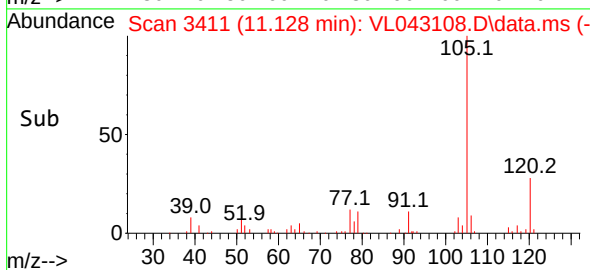
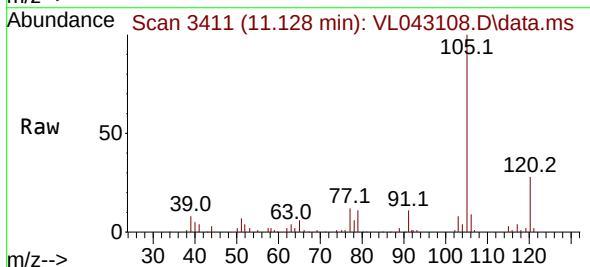
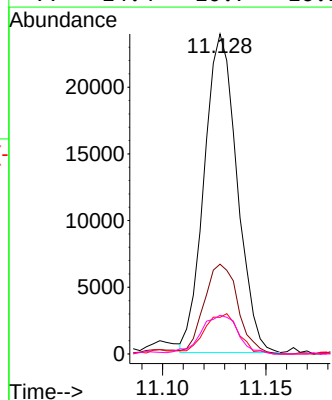
Manual Integrations
APPROVED

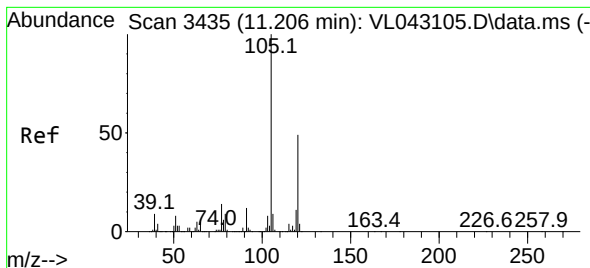
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#72
4-Ethyltoluene
Concen: 0.524 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion:105 Resp: 26408
Ion Ratio Lower Upper
105 100
120 30.8 24.2 36.4
91 14.6 10.0 15.0
77 14.4 10.7 16.1





#73

1,3,5-Trimethylbenzene

Concen: 0.523 ppbv

RT: 11.209 min Scan# 3435

Delta R.T. 0.003 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion:105 Resp: 21754

Ion Ratio Lower Upper

105 100

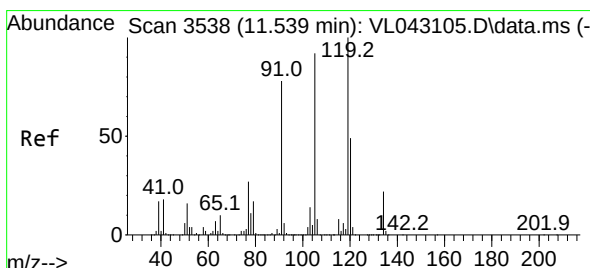
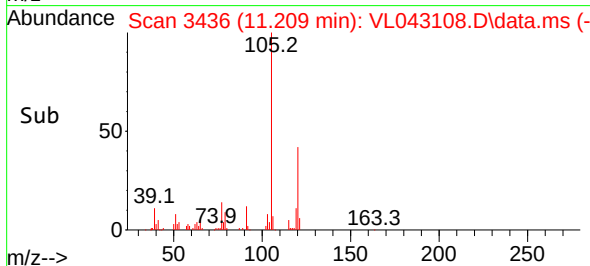
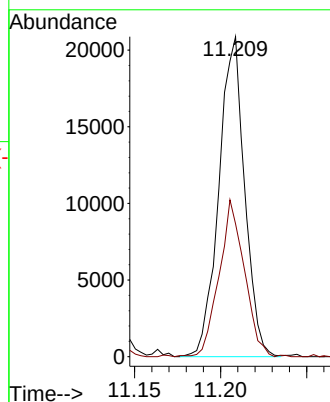
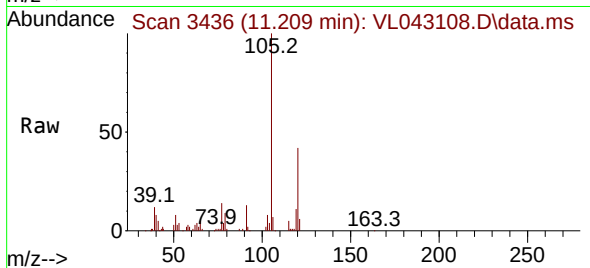
120 41.1 39.0 58.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#74

1,2,4-Trimethylbenzene

Concen: 0.551 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. -0.000 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Tgt Ion:105 Resp: 25663

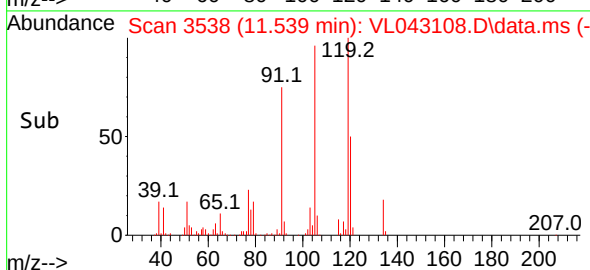
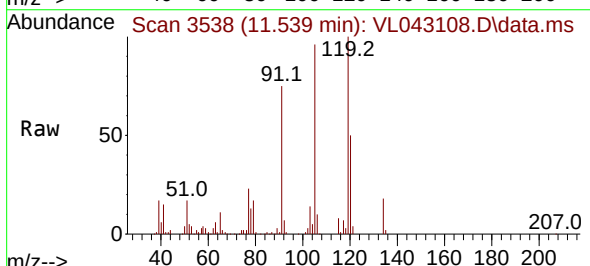
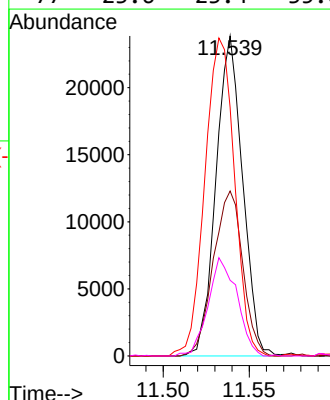
Ion Ratio Lower Upper

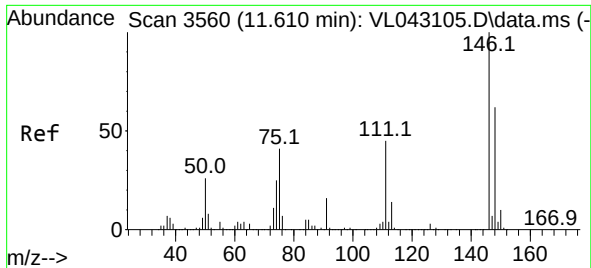
105 100

120 51.5 42.8 64.2

91 77.7 68.3 102.5

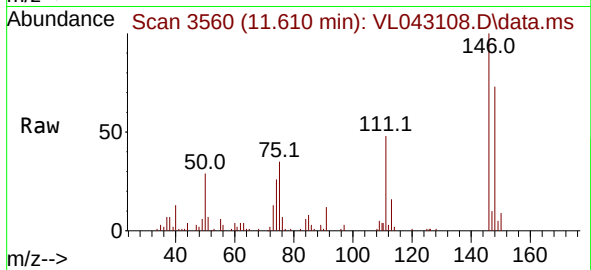
77 23.6 23.4 35.0





#75
1,3-Dichlorobenzene
Concen: 0.507 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

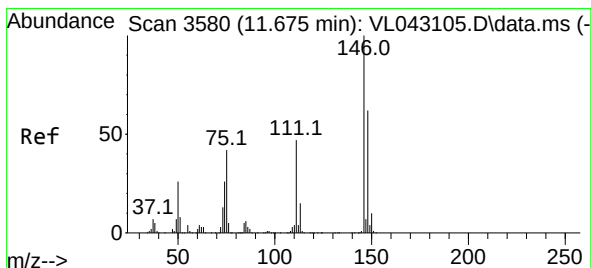
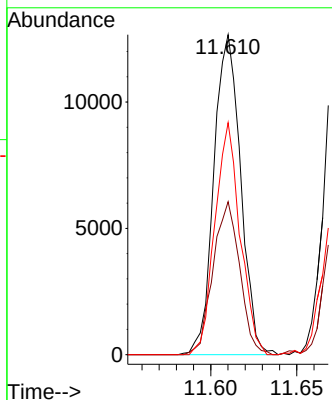
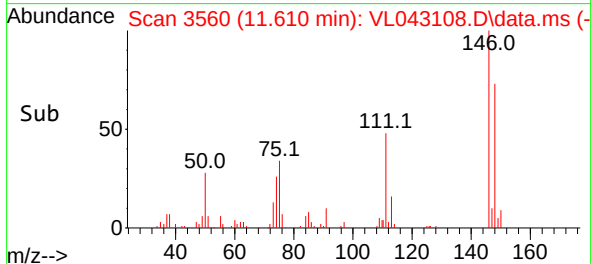
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



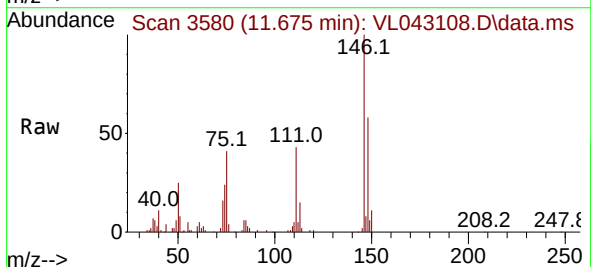
Tgt Ion:146 Resp: 1369
Ion Ratio Lower Upper
146 100
111 47.8 23.3 69.9
148 68.4 31.6 95.0

Manual Integrations
APPROVED

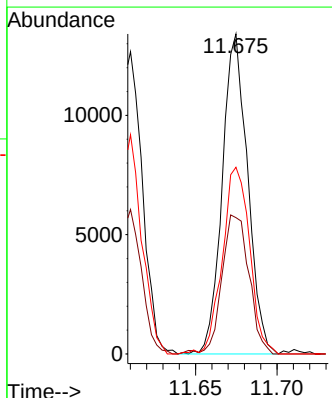
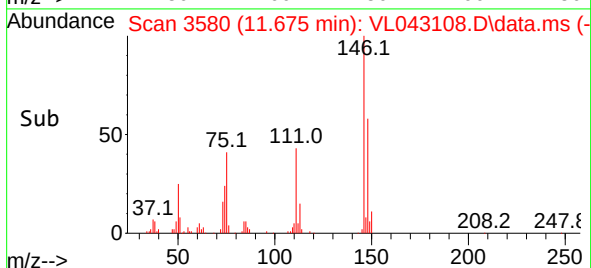
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

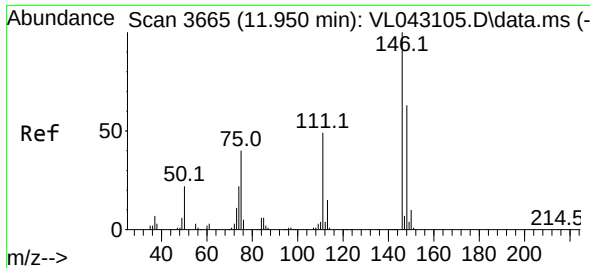


#76
1,4-Dichlorobenzene
Concen: 0.533 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34



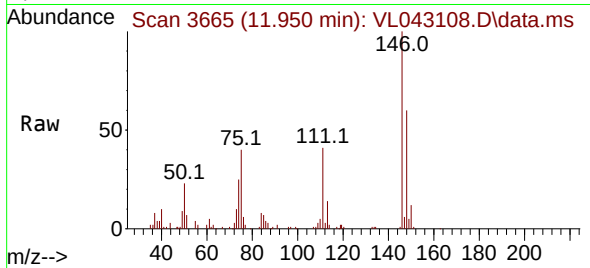
Tgt Ion:146 Resp: 14514
Ion Ratio Lower Upper
146 100
111 46.4 22.4 67.0
148 62.7 31.6 94.7





#77
1,2-Dichlorobenzene
Concen: 0.548 ppbv
RT: 11.950 min Scan# 3665
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

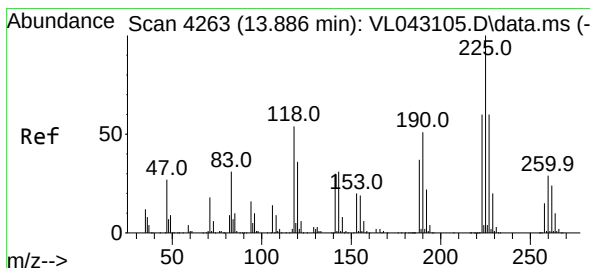
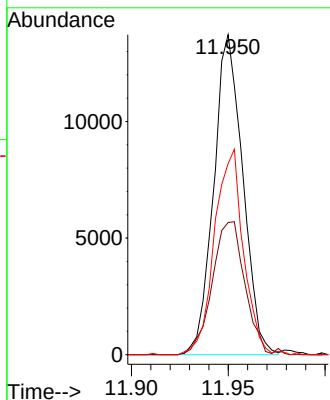
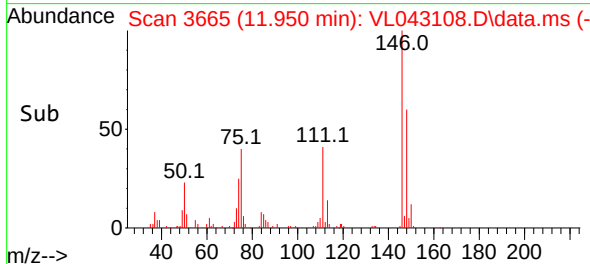
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



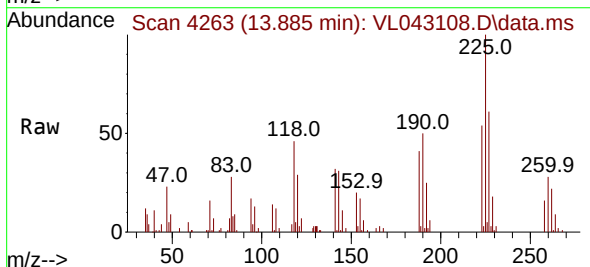
Tgt Ion:146 Resp: 14324
Ion Ratio Lower Upper
146 100
111 46.9 24.0 72.0
148 64.1 31.1 93.3

Manual Integrations
APPROVED

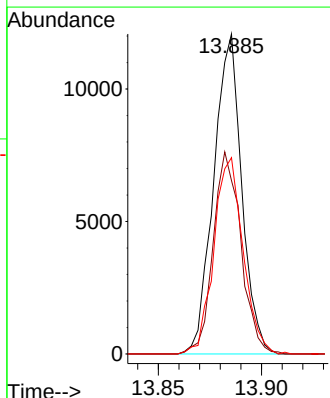
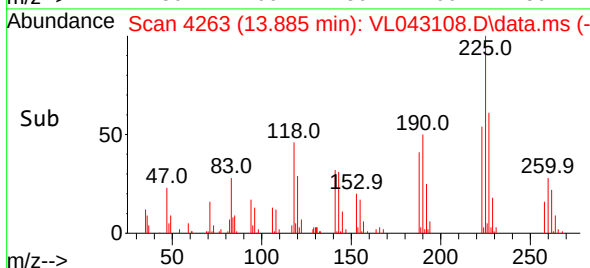
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

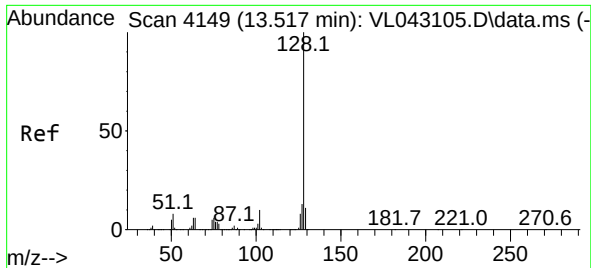


#78
Hexachloro-1,3-Butadiene
Concen: 0.564 ppbv
RT: 13.885 min Scan# 4263
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34



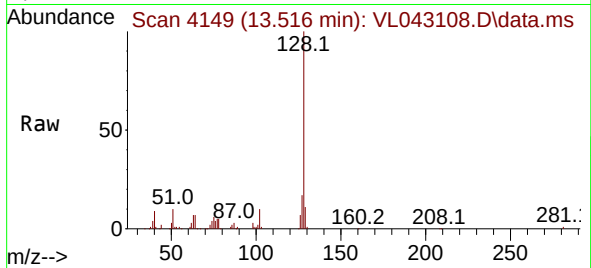
Tgt Ion:225 Resp: 11400
Ion Ratio Lower Upper
225 100
223 62.4 50.2 75.4
227 64.2 49.6 74.4





#79
Naphthalene
Concen: 0.483 ppbv
RT: 13.516 min Scan# 4149
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

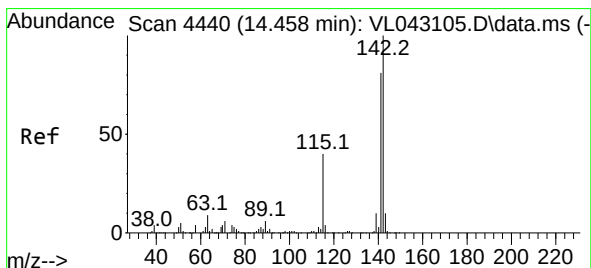
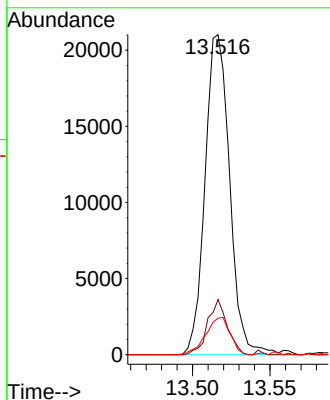
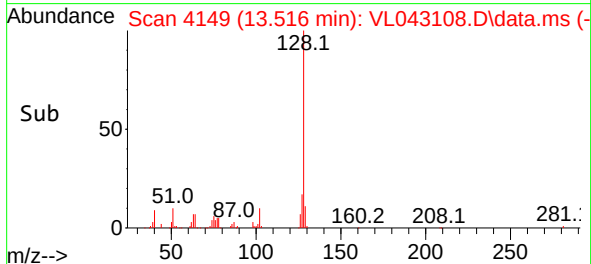
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



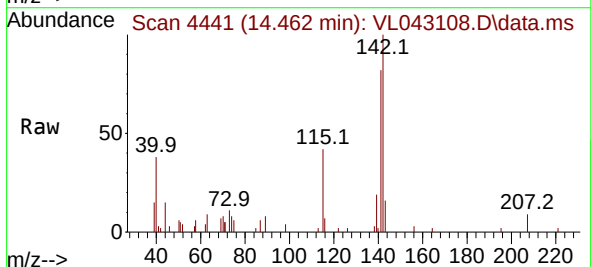
Tgt Ion:128 Resp: 2324
Ion Ratio Lower Upper
128 100
127 17.3 10.5 15.7
129 11.4 9.1 13.7

Manual Integrations
APPROVED

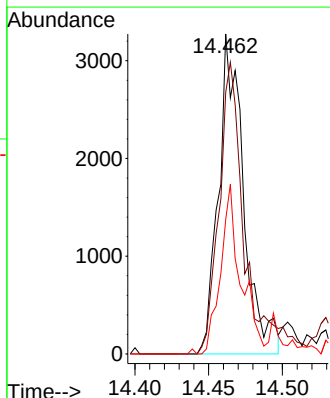
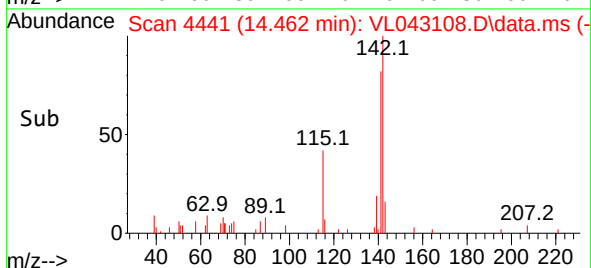
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

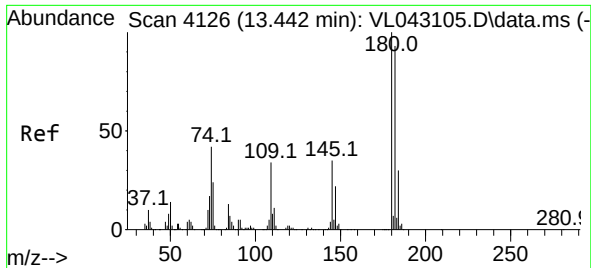


#80
Naphthalene,2-methyl-
Concen: 0.305 ppbv
RT: 14.462 min Scan# 4441
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34



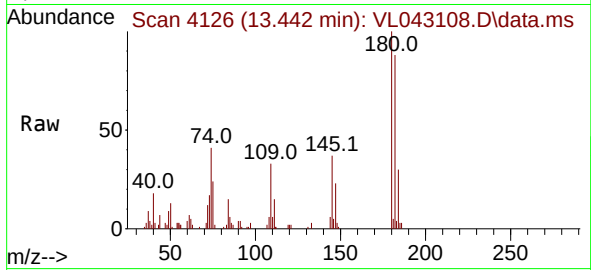
Tgt Ion:142 Resp: 3874
Ion Ratio Lower Upper
142 100
141 92.6 64.6 97.0
115 51.2 30.2 45.4





#81
 1,2,4-Trichlorobenzene
 Concen: 0.416 ppbv
 RT: 13.442 min Scan# 4126
 Delta R.T. -0.000 min
 Lab File: VL043108.D
 Acq: 14 Oct 2025 12:34

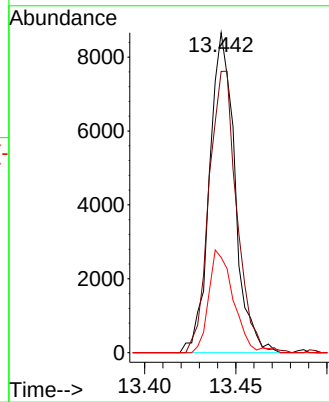
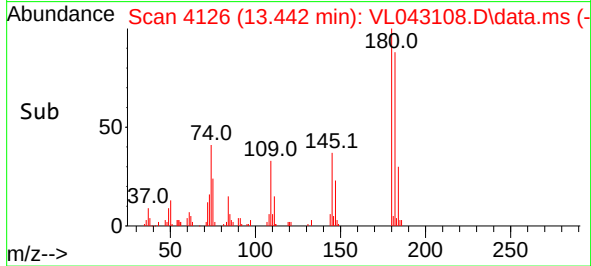
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



Tgt Ion:180	Resp:	839
Ion Ratio	Lower	Upper
180	100	
182	95.8	75.5 113.3
184	31.4	23.9 35.9

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
 Data File : VL043109.D
 Acq On : 14 Oct 2025 13:08
 Operator : SY/MD
 Sample : VSTDICC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025

Quant Time: Oct 15 01:54:22 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

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

QLast Update : Wed Oct 15 01:49:43 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	99997	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	332574	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	299676	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	233673	10.032	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.300%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.583	62	554	0.100	ppbv	# 33
32) 1,1,1-Trichloroethane	3.373	97	2605m	0.112	ppbv	
35) Carbon Tetrachloride	3.761	117	2530m	0.106	ppbv	
38) Trichloroethene	4.561	130	1399m	0.107	ppbv	
52) Tetrachloroethene	8.231	164	1149m	0.102	ppbv	
54) 1,2-Dibromoethane	7.658	107	2201	0.113	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.966	83	3053	0.113	ppbv	90
79) Naphthalene	13.516	128	3792m	0.080	ppbv	

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

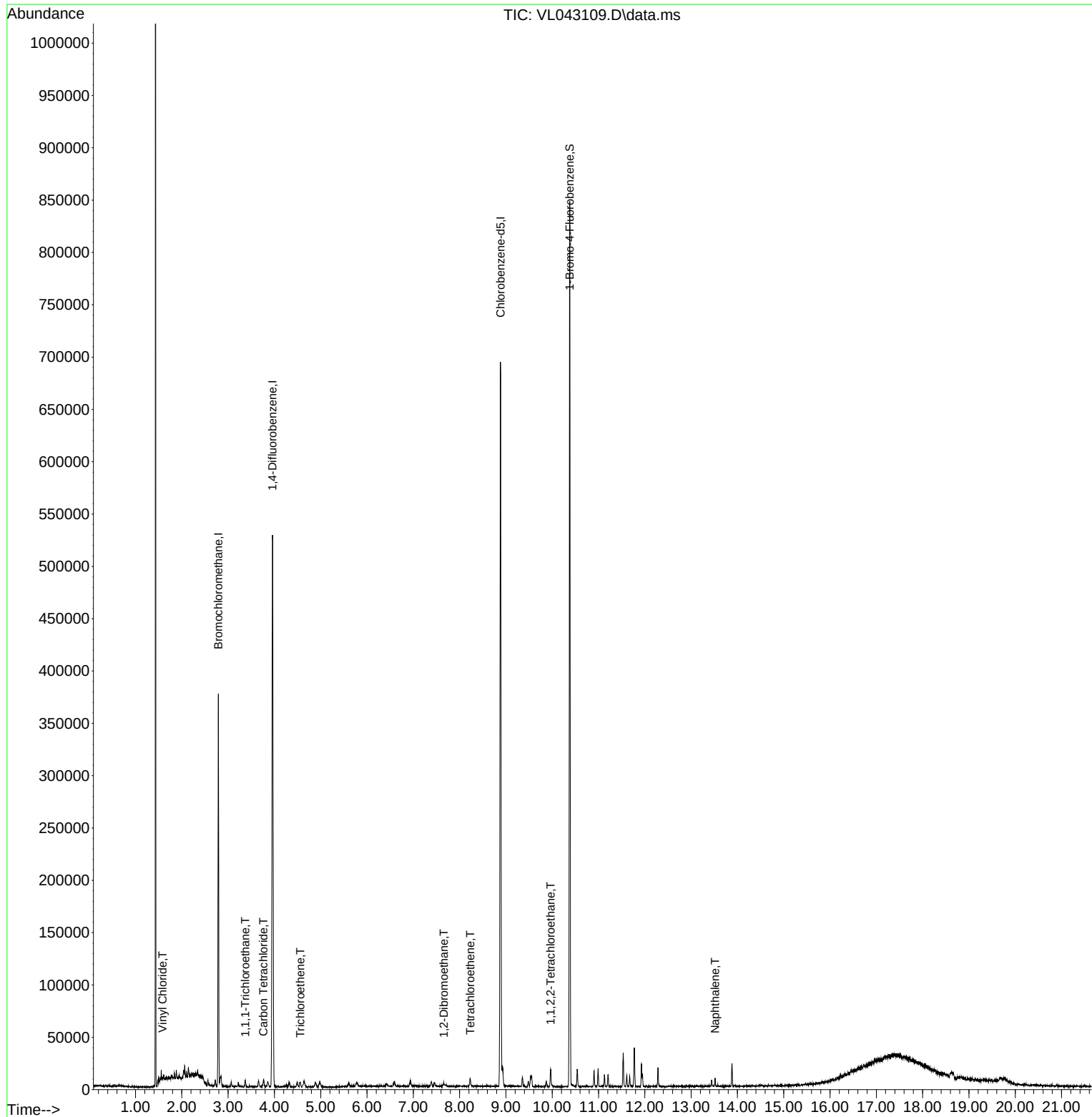
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
Data File : VL043109.D
Acq On : 14 Oct 2025 13:08
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

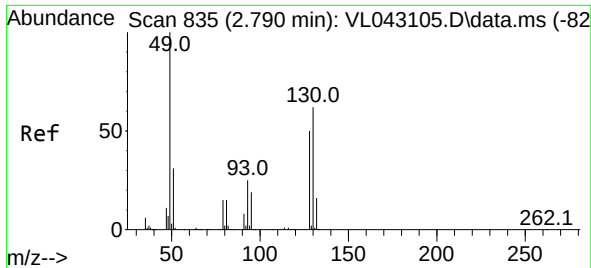
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 10/16/2025
Supervised By : Mahesh Dadoda 10/16/2025

Quant Time: Oct 15 01:54:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Oct 15 01:49:43 2025
Response via : Initial Calibration





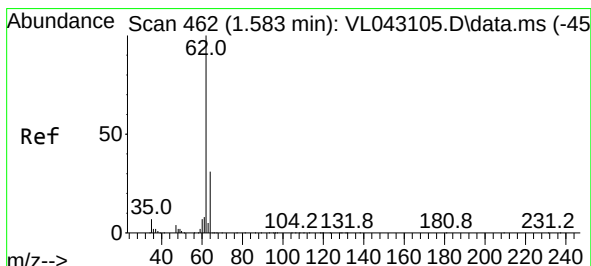
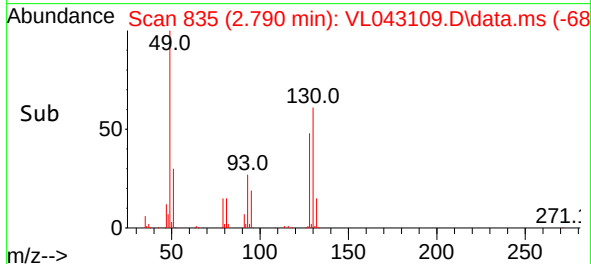
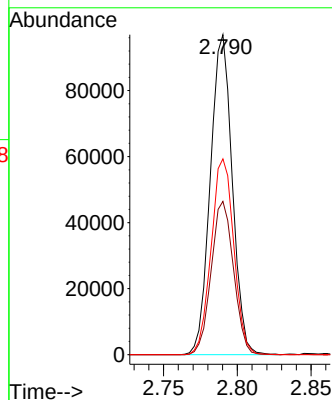
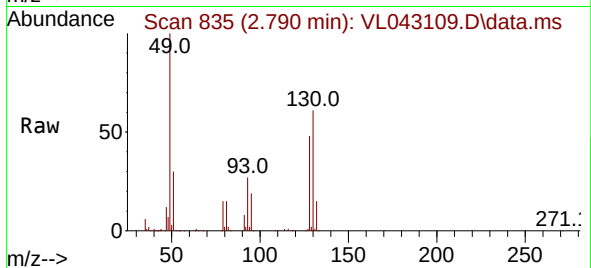
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 835
Delta R.T. 0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

Tgt Ion: 49 Resp: 9999
Ion Ratio Lower Upper
49 100
128 48.9 24.4 73.4
130 63.3 31.0 93.0

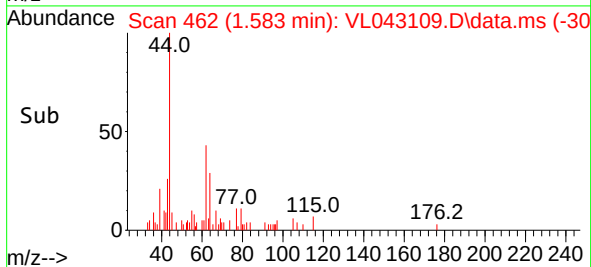
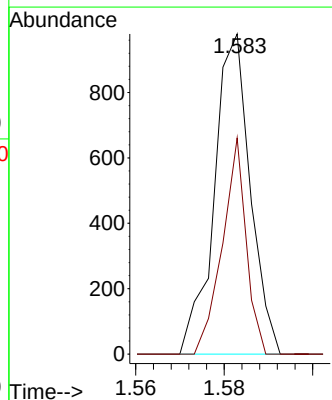
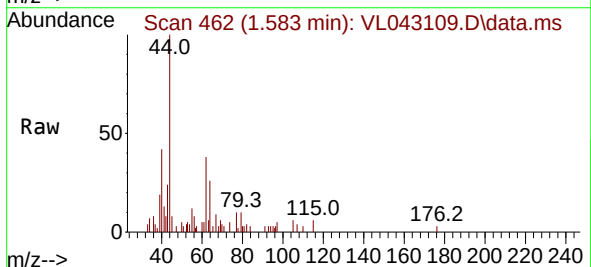
Manual Integrations
APPROVED

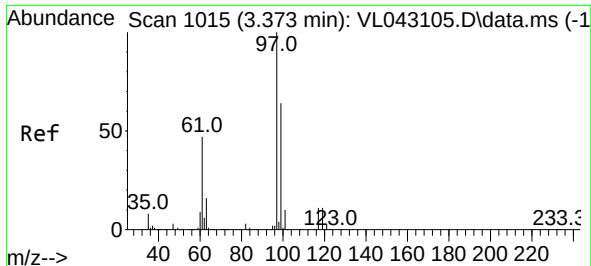
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#5
Vinyl Chloride
Concen: 0.100 ppbv
RT: 1.583 min Scan# 462
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

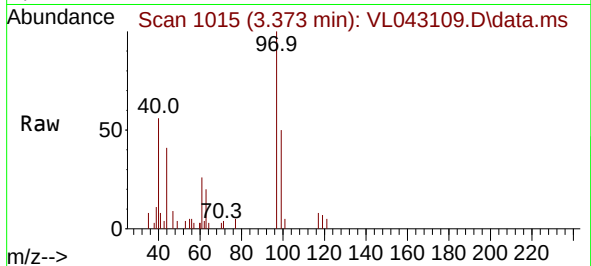
Tgt Ion: 62 Resp: 554
Ion Ratio Lower Upper
62 100
64 67.5 24.6 36.8#





#32
1,1,1-Trichloroethane
Concen: 0.112 ppbv m
RT: 3.373 min Scan# 1015
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

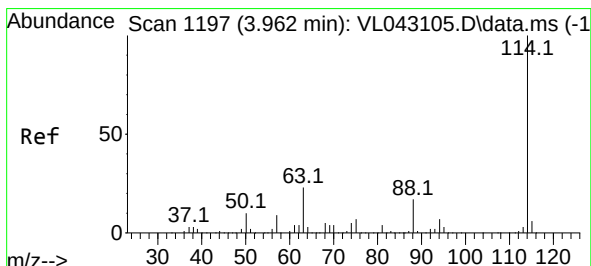
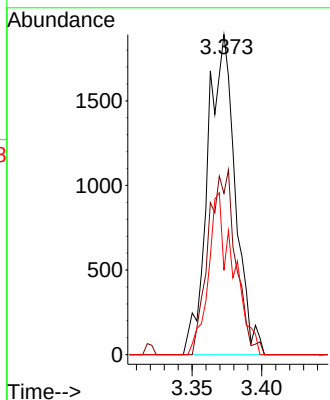
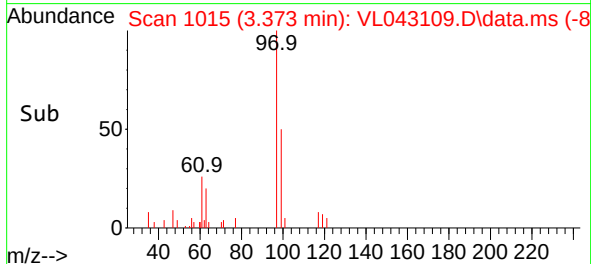
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1



Tgt Ion: 97 Resp: 260
Ion Ratio Lower Upper
97 100
99 57.5 51.3 76.9
61 46.3 38.4 57.6

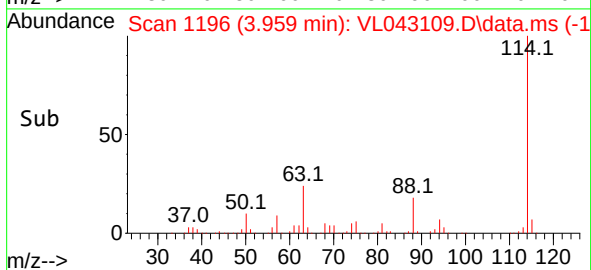
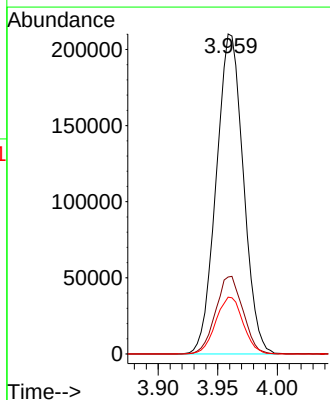
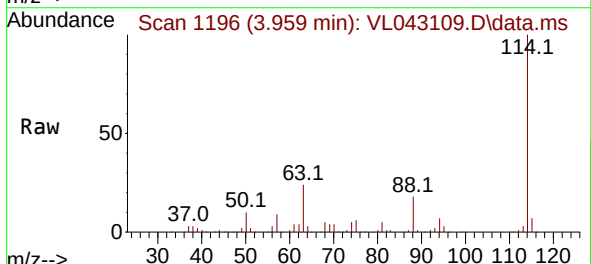
Manual Integrations
APPROVED

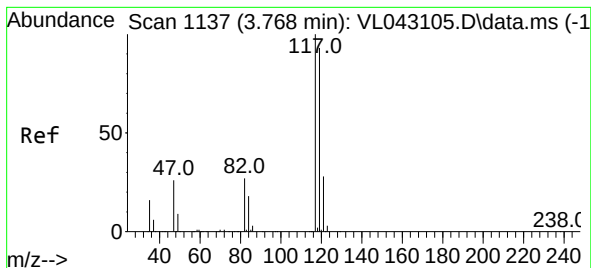
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion:114 Resp: 332574
Ion Ratio Lower Upper
114 100
63 24.3 19.3 28.9
88 17.9 13.9 20.9





#35

Carbon Tetrachloride

Concen: 0.106 ppbv m

RT: 3.761 min Scan# 1135

Delta R.T. -0.007 min

Lab File: VL043109.D

Acq: 14 Oct 2025 13:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

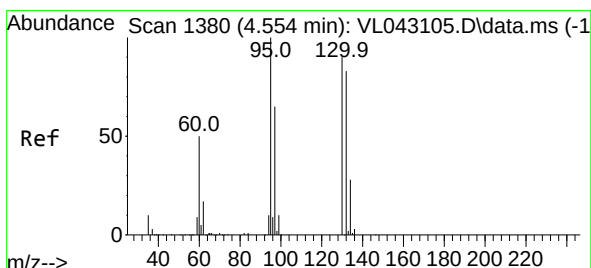
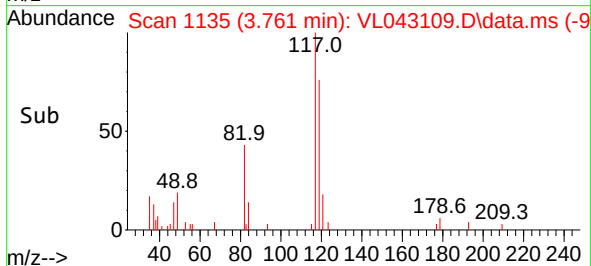
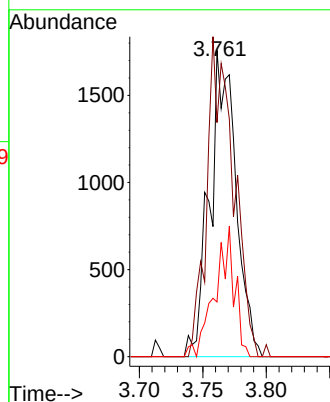
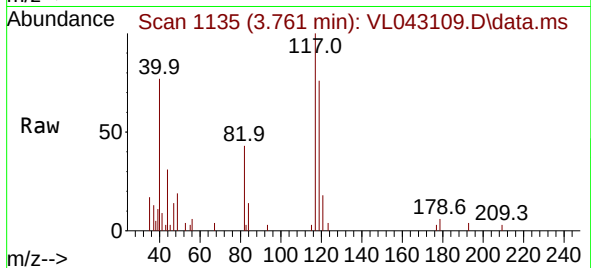
Tgt Ion:117 Resp: 2530

Ion	Ratio	Lower	Upper
117	100		
119	76.4	74.1	111.1
121	17.9	22.2	33.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#38

Trichloroethene

Concen: 0.107 ppbv m

RT: 4.561 min Scan# 1382

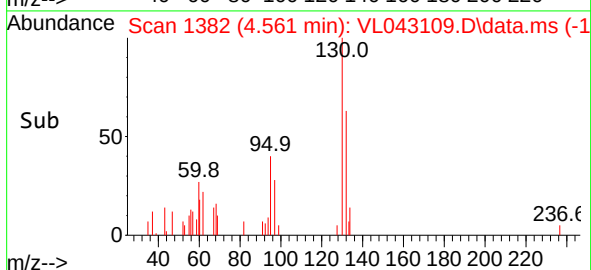
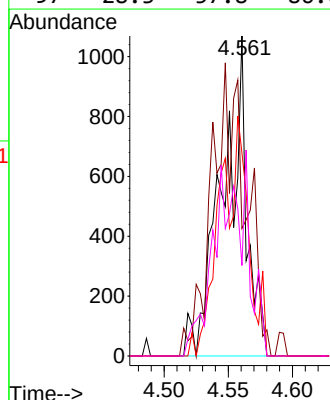
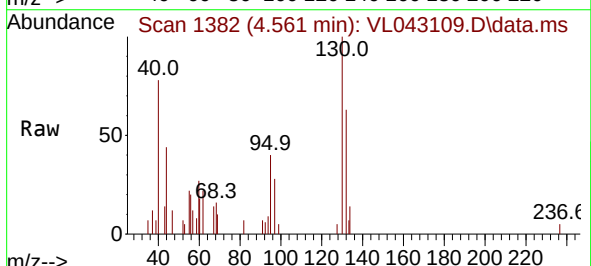
Delta R.T. 0.006 min

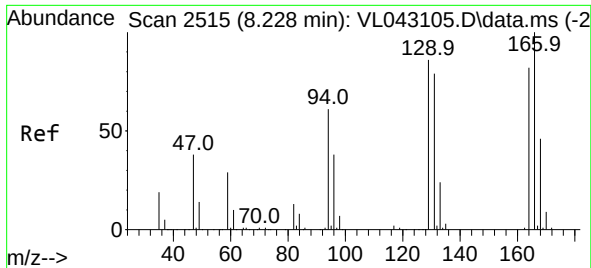
Lab File: VL043109.D

Acq: 14 Oct 2025 13:08

Tgt Ion:130 Resp: 1399

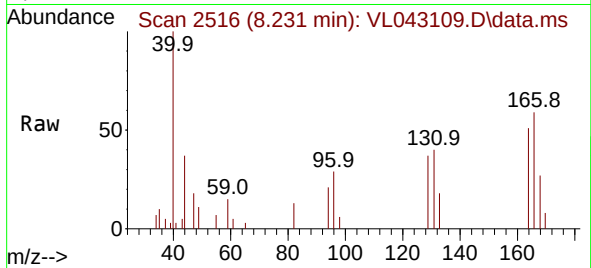
Ion	Ratio	Lower	Upper
130	100		
95	39.9	88.6	133.0#
132	63.4	73.4	110.0#
97	28.3	57.8	86.6#





#52
Tetrachloroethene
Concen: 0.102 ppbv m
RT: 8.231 min Scan# 2515
Delta R.T. 0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

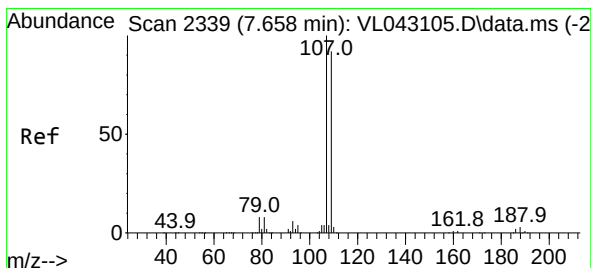
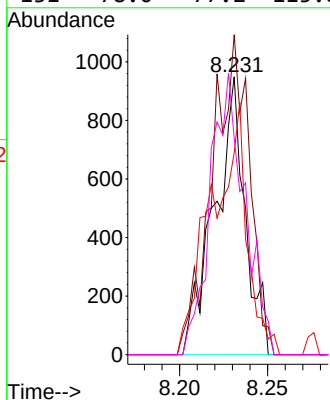
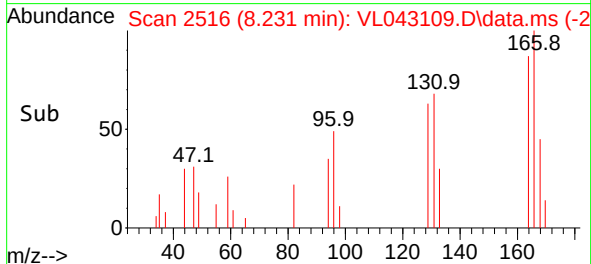
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1



Tgt Ion:164 Resp: 1149
Ion Ratio Lower Upper
164 100
166 115.2 97.6 146.4
129 72.7 84.5 126.7
131 78.0 77.2 115.8

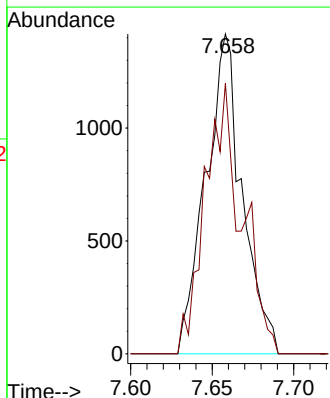
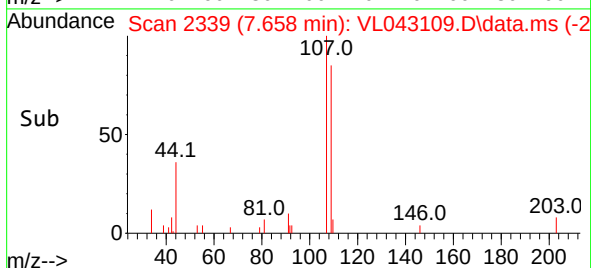
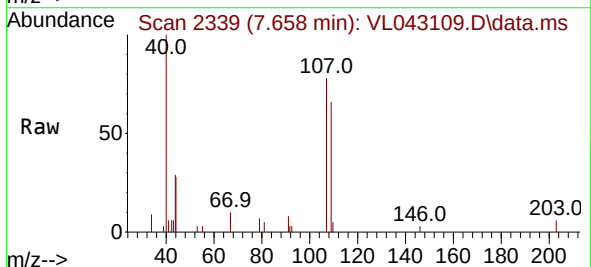
Manual Integrations
APPROVED

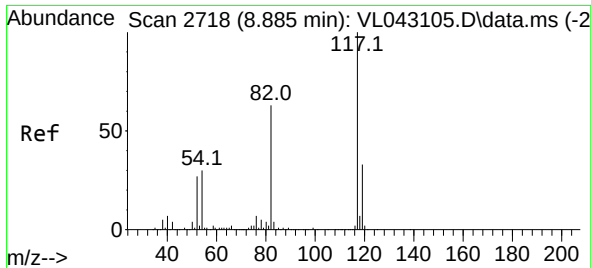
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#54
1,2-Dibromoethane
Concen: 0.113 ppbv
RT: 7.658 min Scan# 2339
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

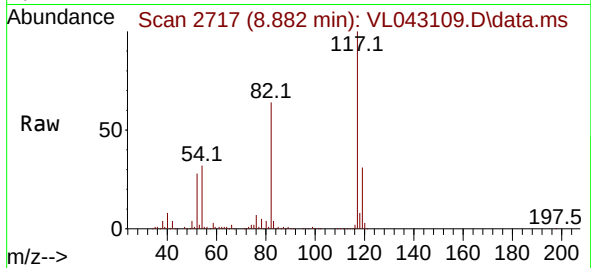
Tgt Ion:107 Resp: 2201
Ion Ratio Lower Upper
107 100
109 91.5 73.4 110.2





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

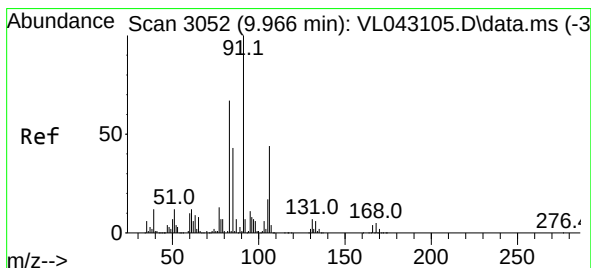
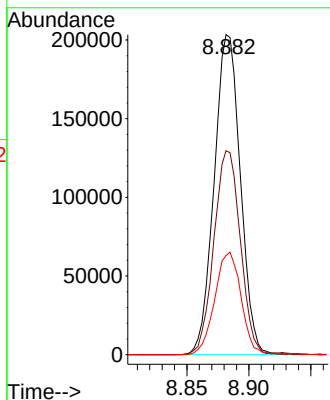
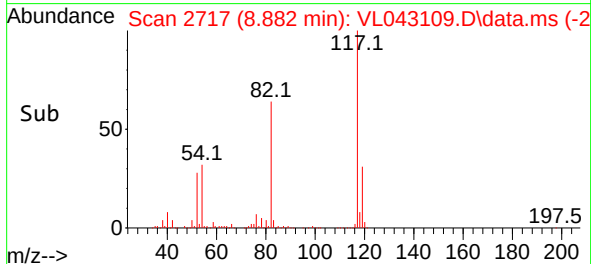
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1



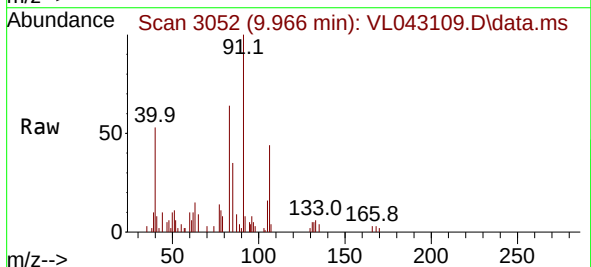
Tgt Ion: 117 Resp: 299670
Ion Ratio Lower Upper
117 100
82 64.3 53.8 80.8
119 32.5 25.4 38.0

Manual Integrations
APPROVED

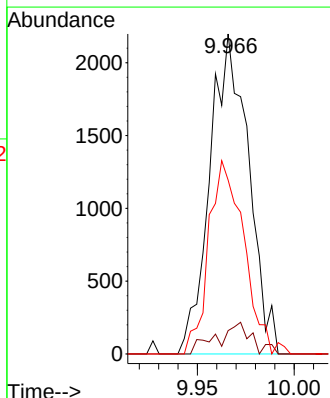
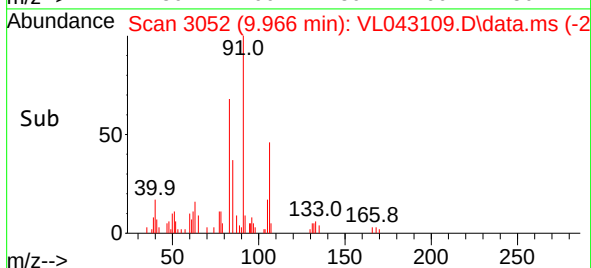
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

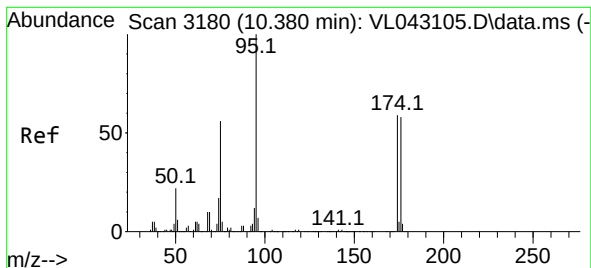


#63
1,1,2,2-Tetrachloroethane
Concen: 0.113 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08



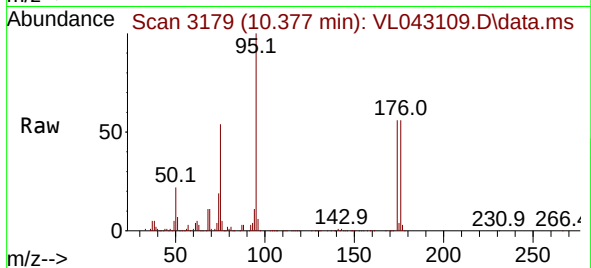
Tgt Ion: 83 Resp: 3053
Ion Ratio Lower Upper
83 100
131 8.9 4.8 14.3
85 55.2 32.0 96.0





#68
1-Bromo-4-Fluorobenzene
Concen: 10.032 ppbv
RT: 10.377 min Scan# 3180
Delta R.T. -0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

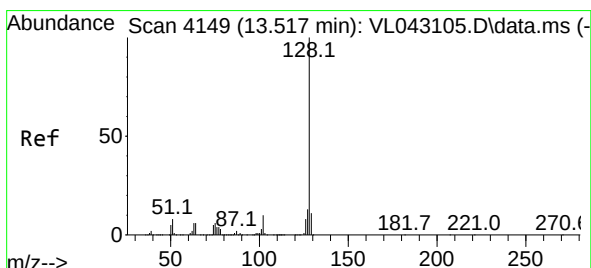
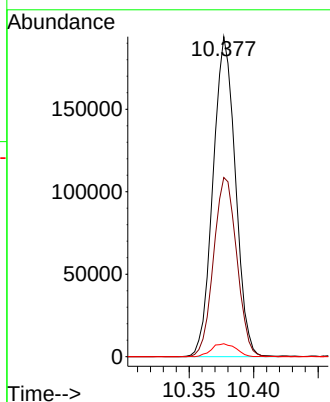
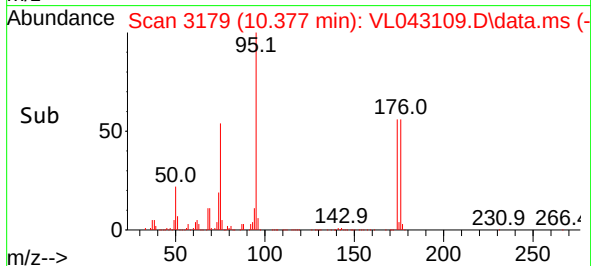
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1



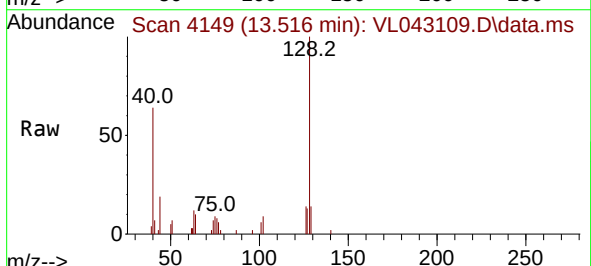
Tgt Ion: 95 Resp: 23367
Ion Ratio Lower Upper
95 100
174 58.0 48.3 72.5
175 4.5 3.8 5.8

Manual Integrations
APPROVED

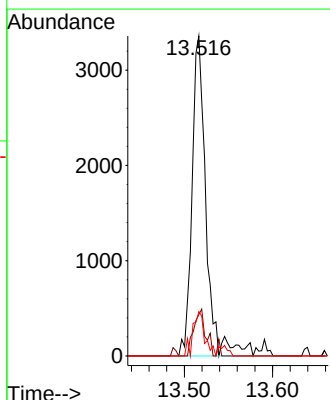
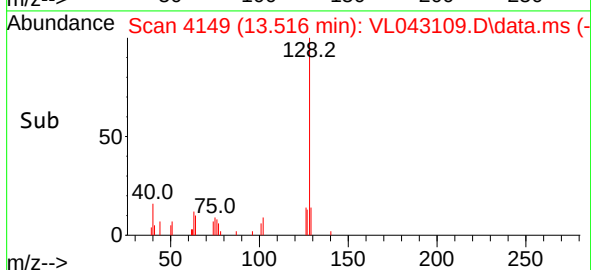
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#79
Naphthalene
Concen: 0.080 ppbv m
RT: 13.516 min Scan# 4149
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08



Tgt Ion:128 Resp: 3792
Ion Ratio Lower Upper
128 100
127 12.9 10.5 15.7
129 13.8 9.1 13.7#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
 Data File : VL043110.D
 Acq On : 14 Oct 2025 13:42
 Operator : SY/MD
 Sample : VSTDICC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025

Quant Time: Oct 15 01:55:07 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

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

QLast Update : Wed Oct 15 01:49:43 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	100058	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	328897	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	292884	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	224043	9.841	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.400%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.583	62	217	0.039	ppbv #	78
32) 1,1,1-Trichloroethane	3.376	97	650m	0.028	ppbv	
35) Carbon Tetrachloride	3.761	117	742m	0.031	ppbv	
38) Trichloroethene	4.551	130	454m	0.035	ppbv	
52) Tetrachloroethene	8.218	164	349m	0.031	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.969	83	904m	0.034	ppbv	

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

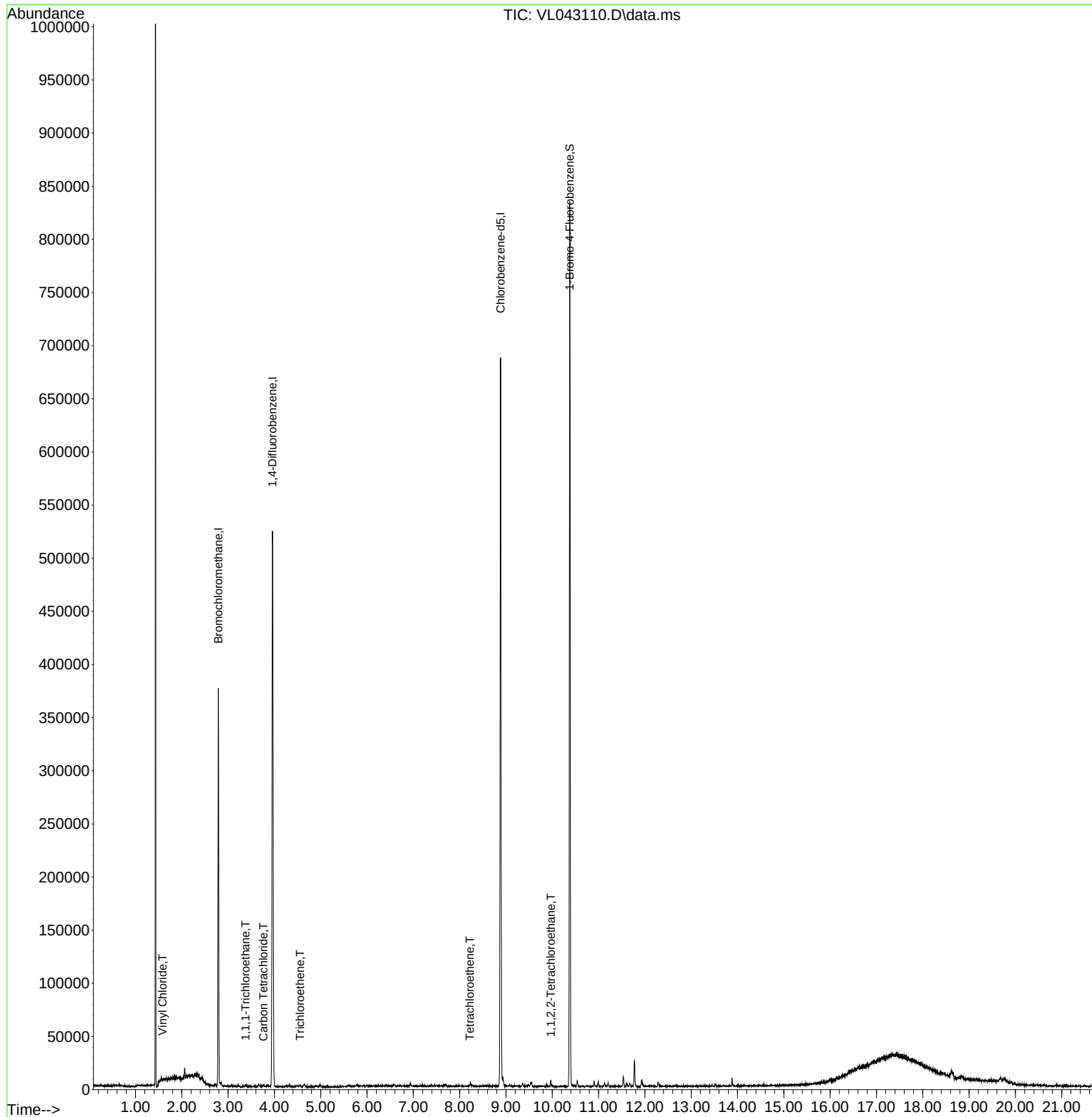
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
Data File : VL043110.D
Acq On : 14 Oct 2025 13:42
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

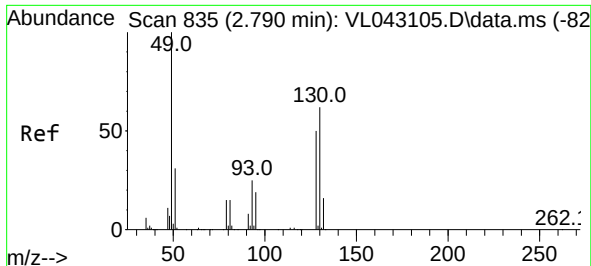
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Quant Time: Oct 15 01:55:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Oct 15 01:49:43 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025





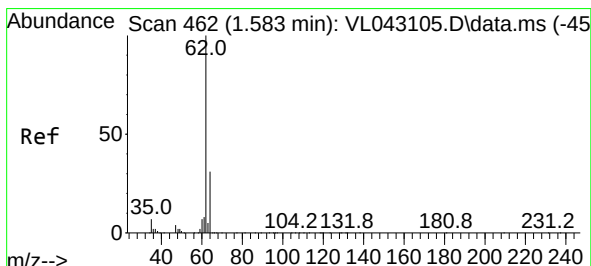
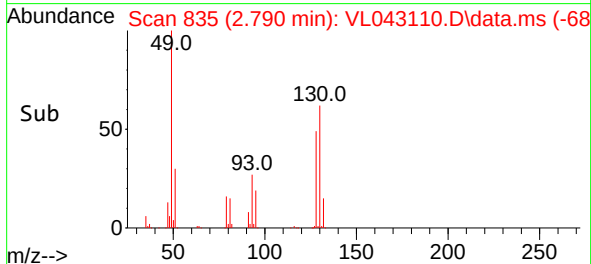
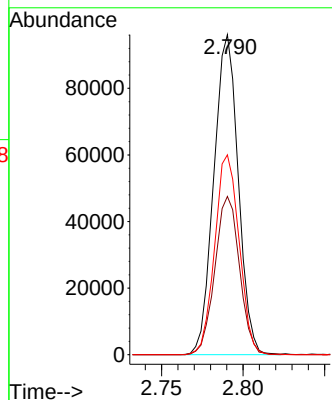
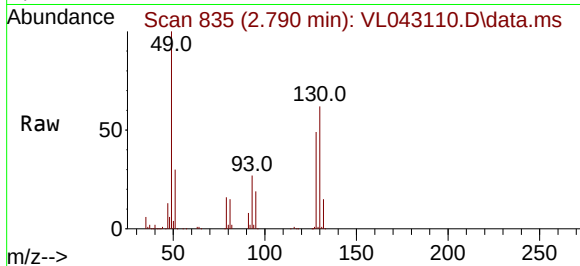
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.000 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 49 Resp: 100058
Ion Ratio Lower Upper
49 100
128 49.9 24.4 73.4
130 62.5 31.0 93.0

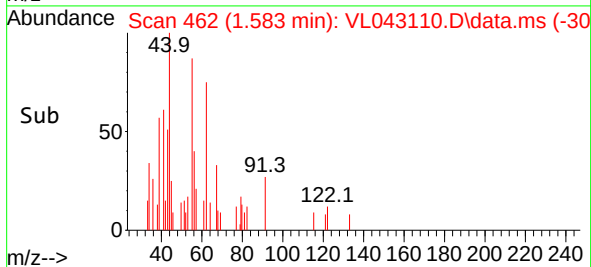
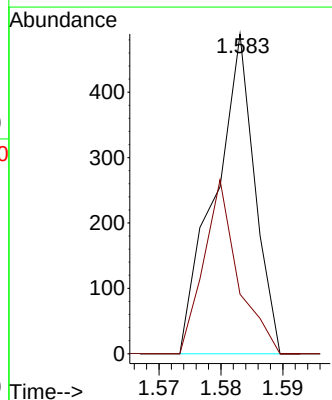
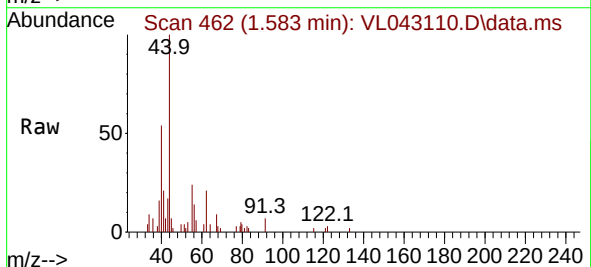
Manual Integrations
APPROVED

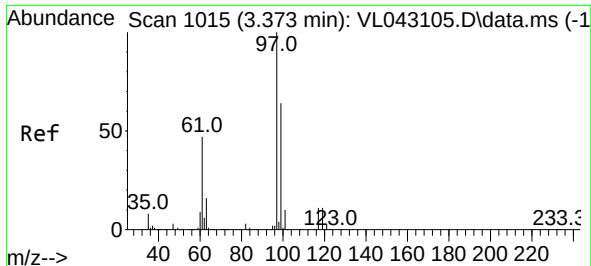
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#5
Vinyl Chloride
Concen: 0.039 ppbv
RT: 1.583 min Scan# 462
Delta R.T. -0.000 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

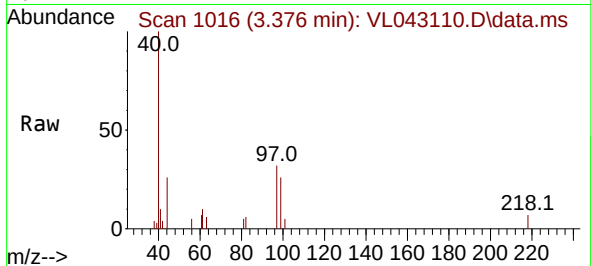
Tgt Ion: 62 Resp: 217
Ion Ratio Lower Upper
62 100
64 18.6 24.6 36.8#





#32
1,1,1-Trichloroethane
Concen: 0.028 ppbv m
RT: 3.376 min Scan# 1015
Delta R.T. 0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

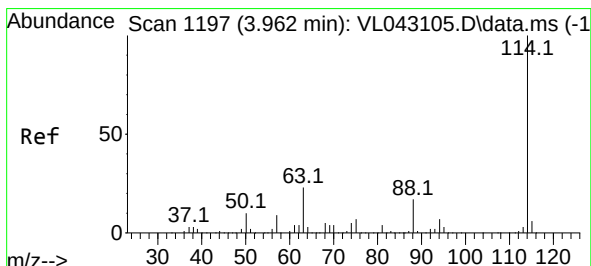
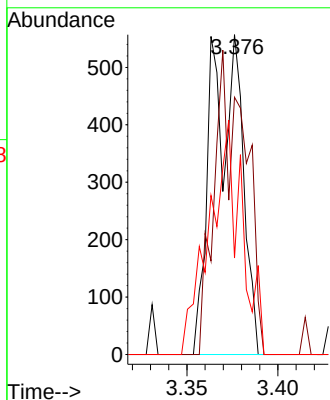
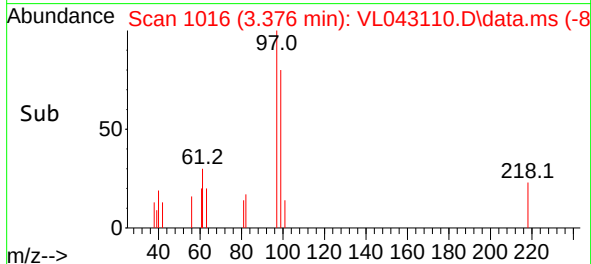
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03



Tgt Ion: 97 Resp: 650
Ion Ratio Lower Upper
97 100
99 96.0 51.3 76.9
61 77.4 38.4 57.6

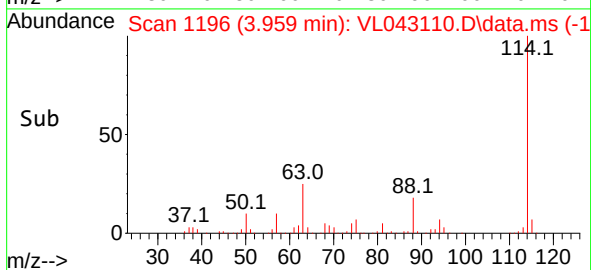
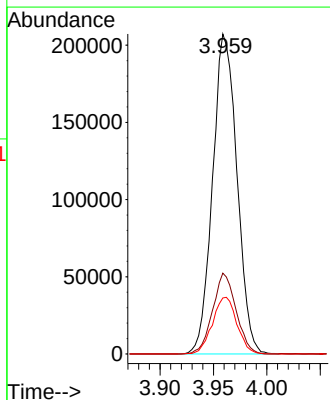
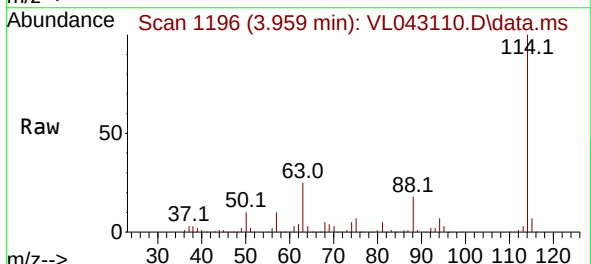
Manual Integrations
APPROVED

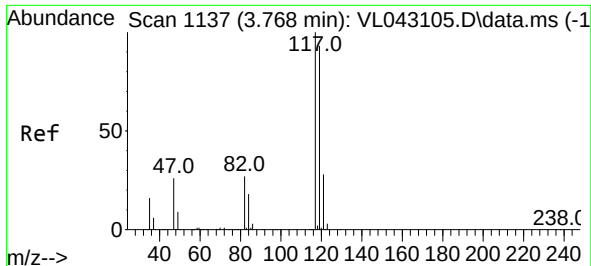
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

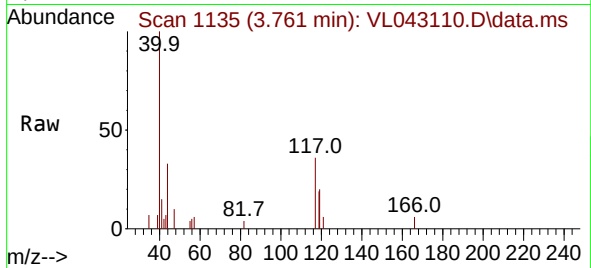
Tgt Ion:114 Resp: 328897
Ion Ratio Lower Upper
114 100
63 24.3 19.3 28.9
88 17.8 13.9 20.9





#35
Carbon Tetrachloride
Concen: 0.031 ppbv m
RT: 3.761 min Scan# 1135
Delta R.T. -0.007 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

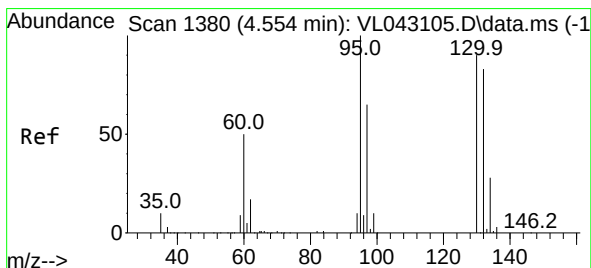
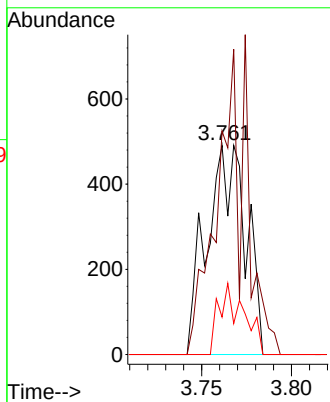
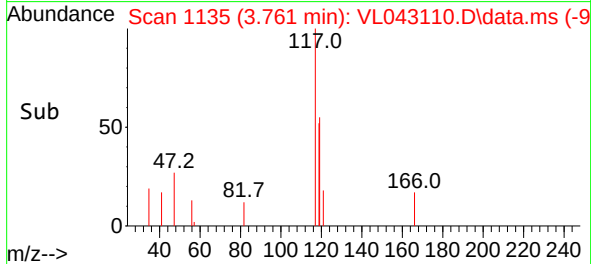
Instrument : MSVOA_L
ClientSampleId : VSTDIC0.03



Tgt Ion:117 Resp: 74.1
Ion Ratio Lower Upper
117 100
119 55.4 74.1 111.1#
121 17.9 22.2 33.2#

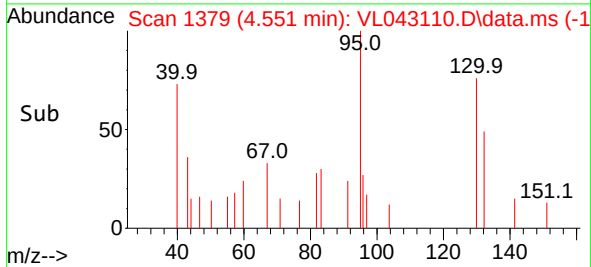
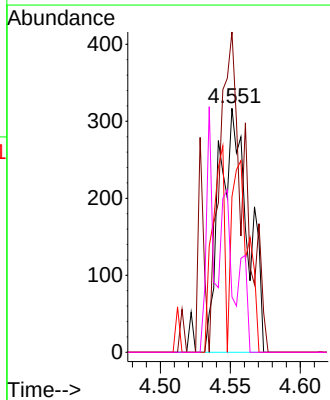
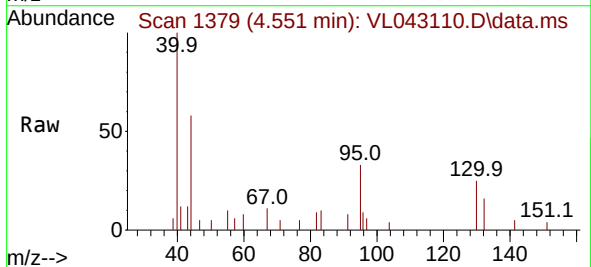
Manual Integrations
APPROVED

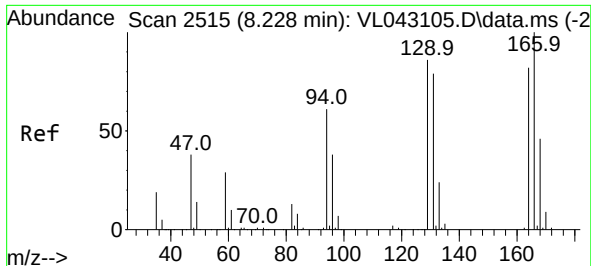
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#38
Trichloroethene
Concen: 0.035 ppbv m
RT: 4.551 min Scan# 1379
Delta R.T. -0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

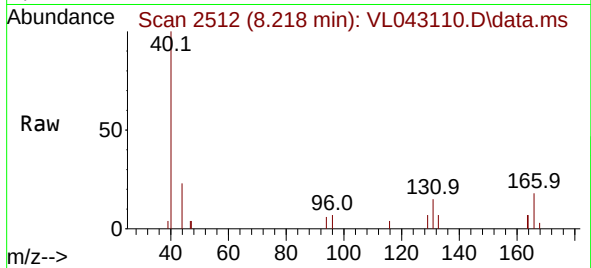
Tgt Ion:130 Resp: 454
Ion Ratio Lower Upper
130 100
95 131.2 88.6 133.0
132 63.7 73.4 110.0#
97 22.7 57.8 86.6#





#52
Tetrachloroethene
Concen: 0.031 ppbv m
RT: 8.218 min Scan# 2515
Delta R.T. -0.010 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

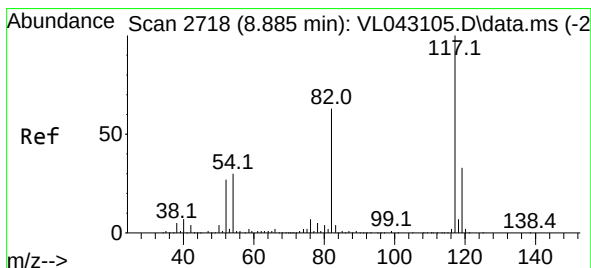
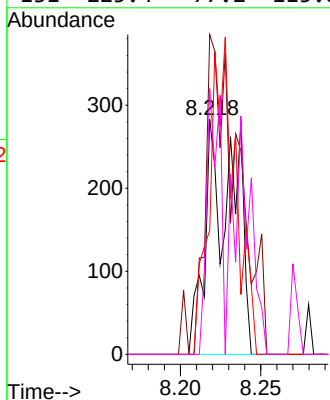
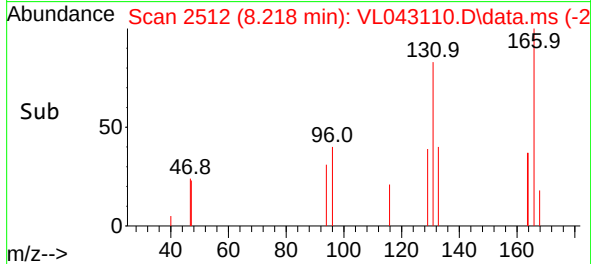
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03



Tgt Ion:164 Resp: 349
Ion Ratio Lower Upper
164 100
166 271.1 97.6 146.4
129 104.9 84.5 126.7
131 225.4 77.2 115.8#

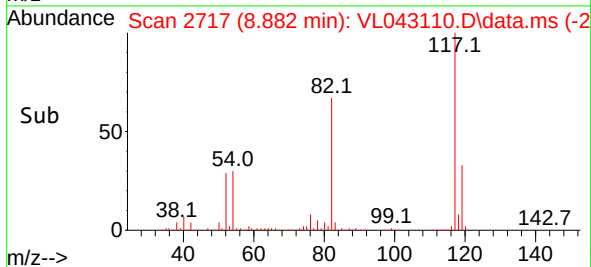
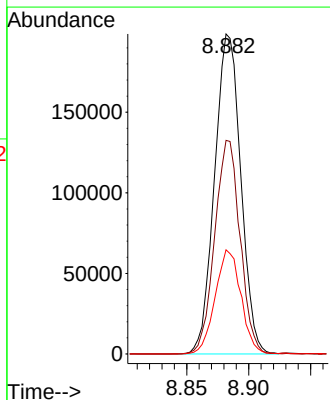
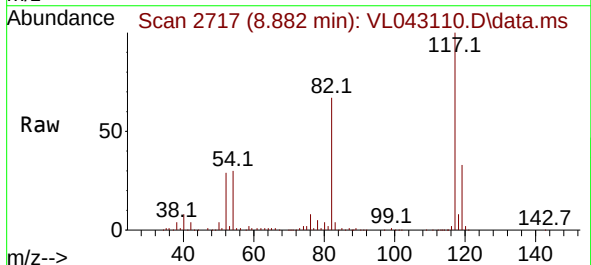
Manual Integrations
APPROVED

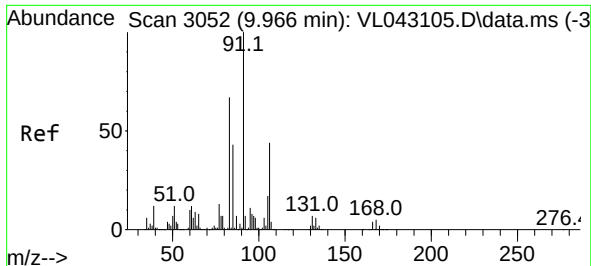
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2717
Delta R.T. -0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

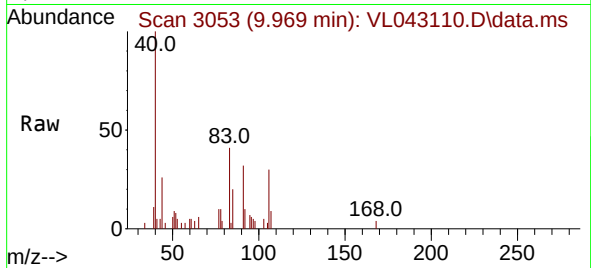
Tgt Ion:117 Resp: 292884
Ion Ratio Lower Upper
117 100
82 64.7 53.8 80.8
119 32.1 25.4 38.0





#63
1,1,2,2-Tetrachloroethane
Concen: 0.034 ppbv m
RT: 9.969 min Scan# 3052
Delta R.T. 0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

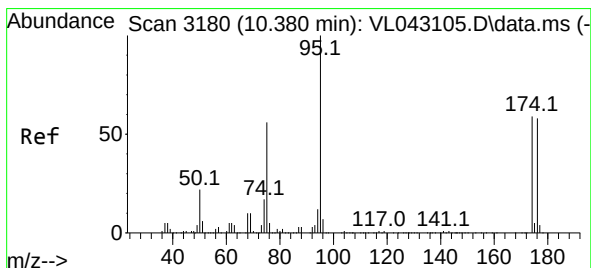
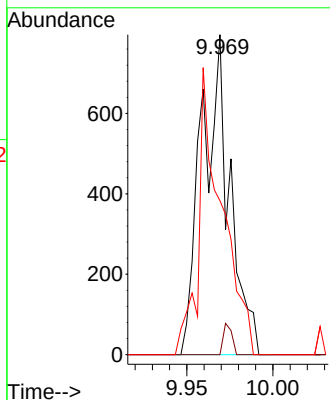
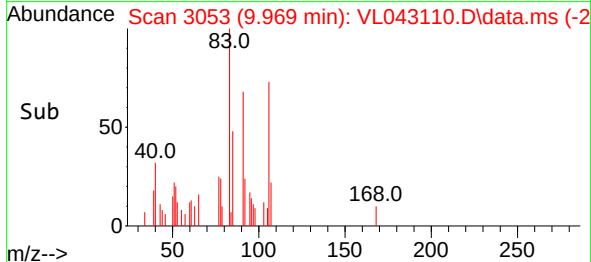
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03



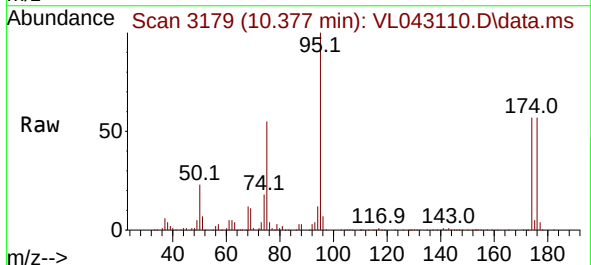
Tgt Ion: 83 Resp: 904
Ion Ratio Lower Upper
83 100
131 0.0 4.8 14.3
85 74.1 32.0 96.0

Manual Integrations
APPROVED

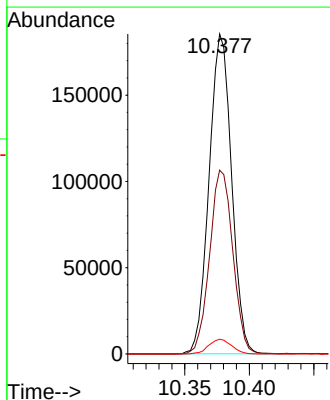
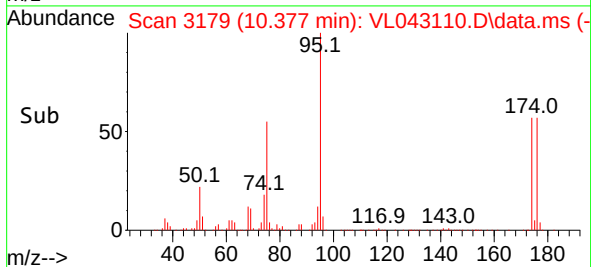
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.841 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. -0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42



Tgt Ion: 95 Resp: 224043
Ion Ratio Lower Upper
95 100
174 59.2 48.3 72.5
175 4.7 3.8 5.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
 Data File : VL043111.D
 Acq On : 14 Oct 2025 14:18
 Operator : SY/MD
 Sample : VSTDICC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 10/16/2025
 Supervised By : Mahesh Dadoda 10/16/2025

Quant Time: Oct 15 01:55:55 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

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

QLast Update : Wed Oct 15 01:49:43 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	100858	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	321665	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	292542	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 233522 10.270 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	193353	13.485	ppbv	98
3) Chlorodifluoromethane	1.476	51	205650	13.255	ppbv	98
4) Chloromethane	1.534	50	72111	12.695	ppbv	98
5) Vinyl Chloride	1.583	62	69909	12.548	ppbv	99
6) Bromomethane	1.670	94	39756	13.013	ppbv	98
7) Chloroethane	1.706	64	27709	12.164	ppbv	95
8) Dichlorotetrafluoroethane	1.557	85	156753	13.526	ppbv	100
9) Propene	1.486	41	88451	12.854	ppbv	98
10) Heptane	4.985	43	249682	12.658	ppbv	99
11) Trichlorofluoromethane	1.881	101	191307	13.640	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.143	101	150640	13.341	ppbv	98
13) Ethanol	1.722	45	25828	10.148	ppbv	98
14) Bromoethene	1.784	108	54818	13.068	ppbv	99
15) Acetone	1.835	43	160069	11.710	ppbv	100
16) 1,3-Butadiene	1.612	39	80403	12.411	ppbv	98
17) tert-Butyl alcohol	2.039	59	237633	12.735	ppbv	99
18) 1,1-Dichloroethene	2.036	96	65634	13.333	ppbv	98
19) Isopropyl Alcohol	1.887	45	102035	12.051	ppbv	98
20) Methylene Chloride	2.065	84	60549	11.268	ppbv	90
21) Allyl Chloride	2.097	41	131539	13.105	ppbv	95
22) trans-1,2-Dichloroethene	2.343	96	76780	13.048	ppbv	97
23) Vinyl Acetate	2.463	43	288274	14.476	ppbv	98
24) 1,1-Dichloroethane	2.411	63	152663	13.428	ppbv	99
25) Ethyl Acetate	2.835	43	434350	12.884	ppbv	100
26) Hexane	2.829	57	199384	12.836	ppbv	98
27) Carbon Disulfide	2.152	76	192452	13.522	ppbv	100
28) Methyl tert-Butyl Ether	2.441	73	96464	13.650	ppbv	94
29) Chloroform	2.852	83	302154	13.425	ppbv	98
30) Cyclohexane	3.858	84	177947	13.133	ppbv	95
31) cis-1,2-Dichloroethene	2.722	61	203888	13.745	ppbv	97
32) 1,1,1-Trichloroethane	3.373	97	316442	13.500	ppbv	99
34) 2-Butanone	2.557	43	283134	13.020	ppbv	99
35) Carbon Tetrachloride	3.764	117	325078	14.056	ppbv	98
36) Benzene	3.661	78	415823	13.725	ppbv	99
37) 1,2-Dichloroethane	3.221	62	241983	13.865	ppbv	98
38) Trichloroethene	4.551	130	159136	12.590	ppbv	97
39) 1,2-Dichloropropane	4.318	63	147155	13.274	ppbv	95
40) 1,4-Dioxane	4.580	88	65323	13.180	ppbv #	94
41) Tetrahydrofuran	3.052	42	160247	13.200	ppbv	99
42) Bromodichloromethane	4.493	83	343817	14.234	ppbv	99
43) Methyl Methacrylate	4.881	69	210756	13.633	ppbv	98
44) 2,2,4-Trimethylpentane	4.645	57	675770	13.340	ppbv	99
45) t-1,3-Dichloropropene	6.418	75	218386	14.142	ppbv	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
 Data File : VL043111.D
 Acq On : 14 Oct 2025 14:18
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025

Quant Time: Oct 15 01:55:55 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

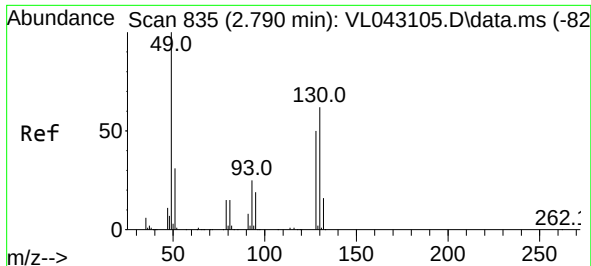
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Wed Oct 15 01:49:43 2025

Response via : Initial Calibration

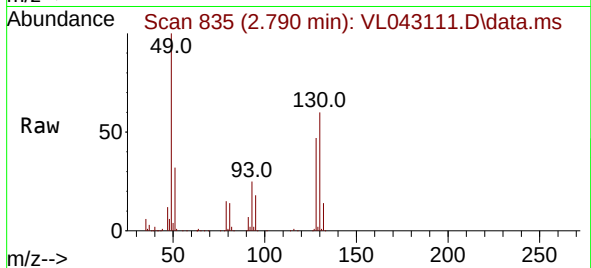
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.606	75	258355	14.018	ppbv	98
47) 1,1,2-Trichloroethane	6.583	97	163113	13.638	ppbv	94
48) Dibromochloromethane	7.393	129	280993	14.051	ppbv	100
49) Bromoform	9.487	173	230561	14.184	ppbv	100
50) 4-Methyl-2-Pentanone	5.748	43	401849	13.396	ppbv	100
51) 2-Hexanone	7.435	43	317288	14.176	ppbv #	99
52) Tetrachloroethene	8.231	164	143954	13.177	ppbv	98
53) Toluene	6.936	91	483870	13.457	ppbv	100
54) 1,2-Dibromoethane	7.655	107	254024	13.461	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.927	131	250303	13.573	ppbv	99
57) Chlorobenzene	8.927	112	355301	12.983	ppbv	98
58) Ethyl Benzene	9.357	91	676918	13.375	ppbv	97
59) m/p-Xylene	9.555	91	1061952m	26.498	ppbv	
60) o-Xylene	9.966	91	516660	13.063	ppbv	99
61) Styrene	9.875	104	247585	13.867	ppbv	99
62) Isopropylbenzene	10.542	105	931508	13.034	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.966	83	331423	12.515	ppbv	100
64) n-propylbenzene	10.992	120	241719	12.775	ppbv	96
65) tert-Butylbenzene	11.532	119	788234	12.490	ppbv	97
66) Benzyl Chloride	11.620	91	97114	13.778	ppbv	99
67) sec-Butylbenzene	11.769	105	1125489	12.566	ppbv	99
69) p-Isopropyltoluene	11.930	119	959206	12.602	ppbv	99
70) n-Butylbenzene	12.283	91	973466	12.979	ppbv	100
71) 2-Chlorotoluene	10.904	91	721827	13.242	ppbv	98
72) 4-Ethyltoluene	11.128	105	647315	13.310	ppbv	99
73) 1,3,5-Trimethylbenzene	11.205	105	534006	13.314	ppbv	98
74) 1,2,4-Trimethylbenzene	11.542	105	560932	12.498	ppbv #	86
75) 1,3-Dichlorobenzene	11.610	146	339203	13.031	ppbv	99
76) 1,4-Dichlorobenzene	11.675	146	341936	13.027	ppbv	99
77) 1,2-Dichlorobenzene	11.950	146	318800	12.660	ppbv	99
78) Hexachloro-1,3-Butadiene	13.882	225	226294	11.606	ppbv	99
79) Naphthalene	13.516	128	661098	14.260	ppbv	99
80) Naphthalene,2-methyl-	14.458	142	212784	17.384	ppbv	98
81) 1,2,4-Trichlorobenzene	13.442	180	266712	13.698	ppbv	100

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 835
Delta R.T. 0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

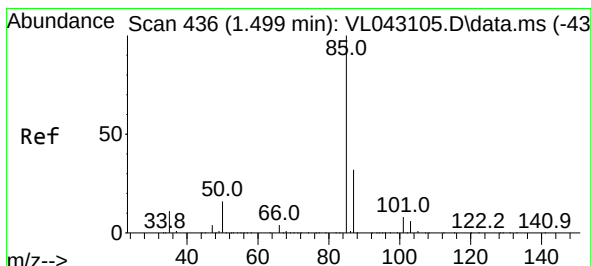
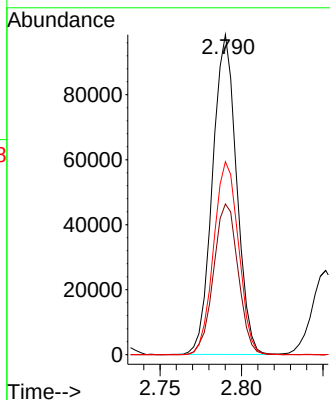
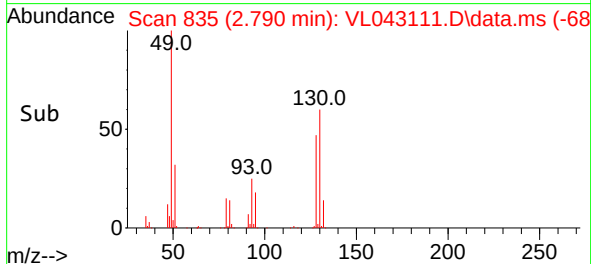
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



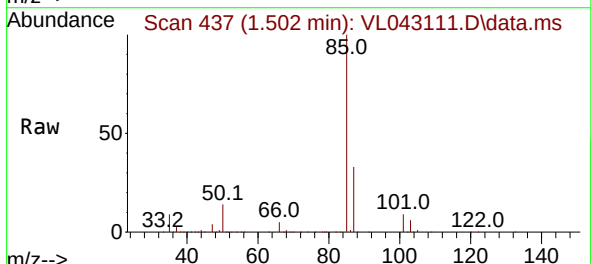
Tgt Ion: 49 Resp: 100858
Ion Ratio Lower Upper
49 100
128 48.4 24.4 73.4
130 62.4 31.0 93.0

Manual Integrations
APPROVED

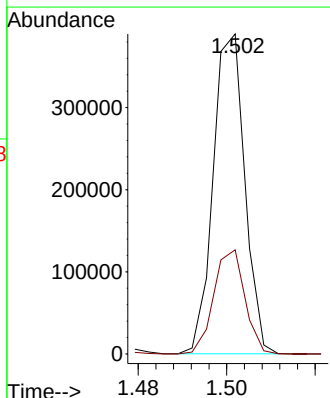
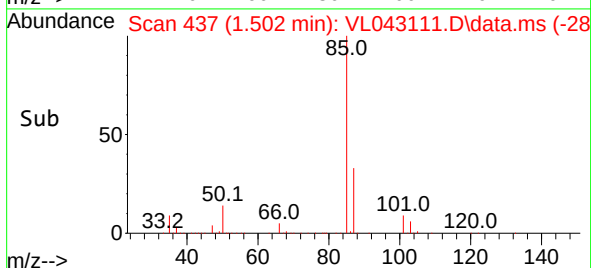
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

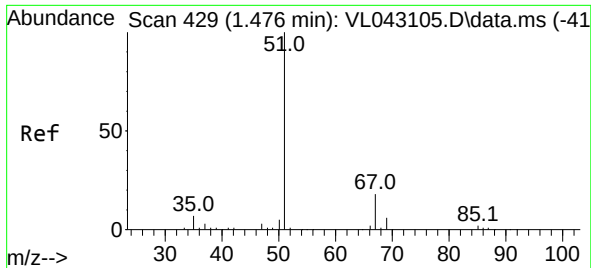


#2
Dichlorodifluoromethane
Concen: 13.485 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18



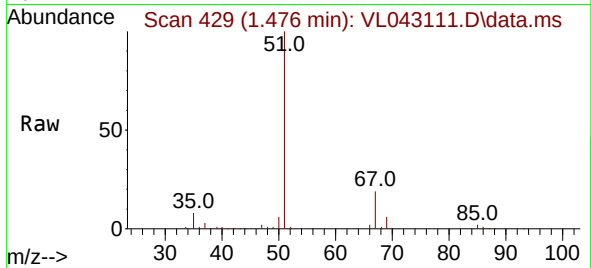
Tgt Ion: 85 Resp: 193353
Ion Ratio Lower Upper
85 100
87 32.6 25.3 37.9





#3
Chlorodifluoromethane
Concen: 13.255 ppbv
RT: 1.476 min Scan# 429
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

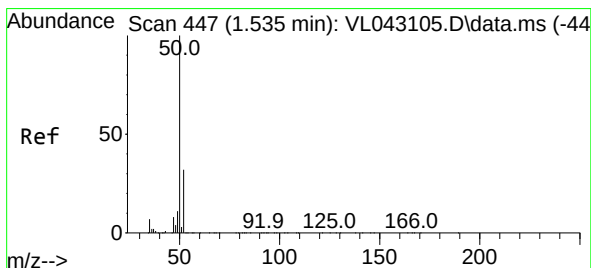
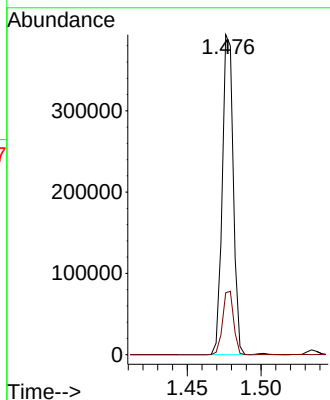
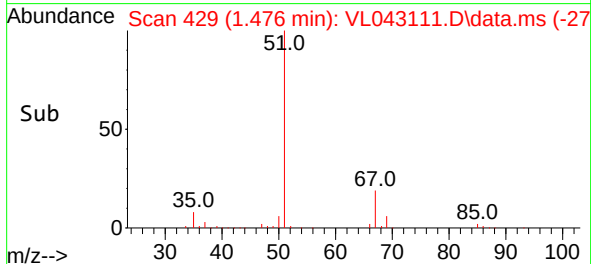
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion: 51 Resp: 205650
Ion Ratio Lower Upper
51 100
67 20.0 15.1 22.7

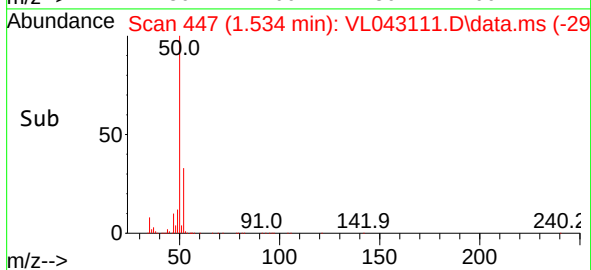
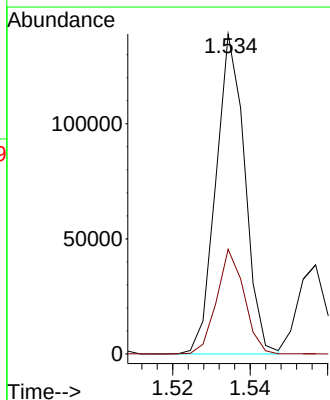
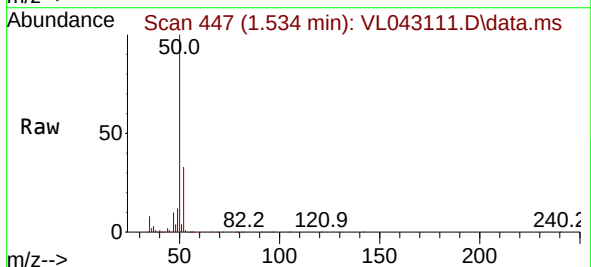
Manual Integrations
APPROVED

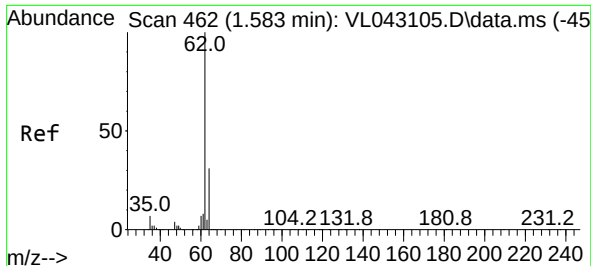
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#4
Chloromethane
Concen: 12.695 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

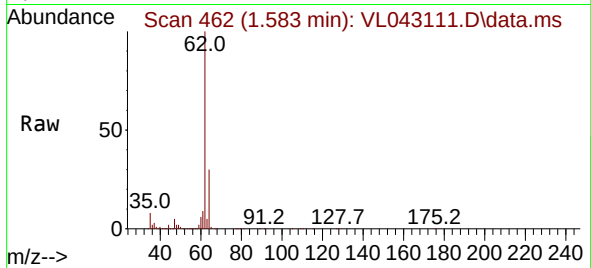
Tgt Ion: 50 Resp: 72111
Ion Ratio Lower Upper
50 100
52 32.7 25.2 37.8





#5
 Vinyl Chloride
 Concen: 12.548 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. -0.000 min
 Lab File: VL043111.D
 Acq: 14 Oct 2025 14:18

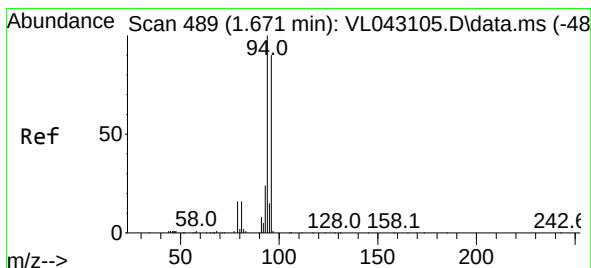
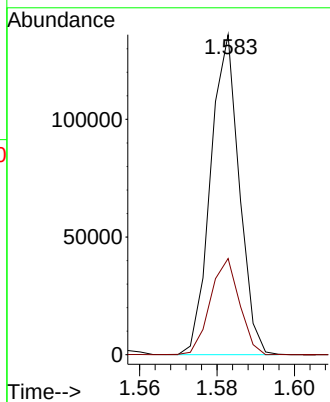
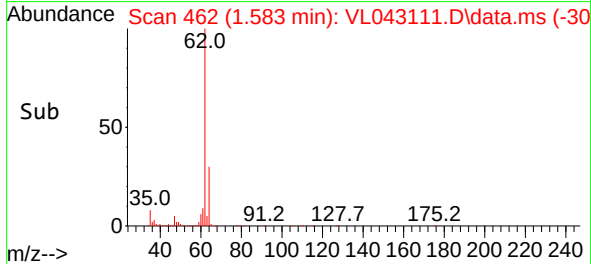
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



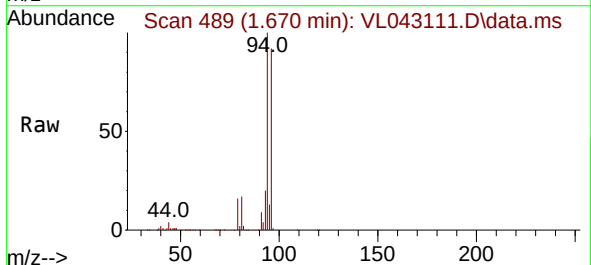
Tgt Ion: 62 Resp: 69909
 Ion Ratio Lower Upper
 62 100
 64 30.0 24.6 36.8

Manual Integrations
 APPROVED

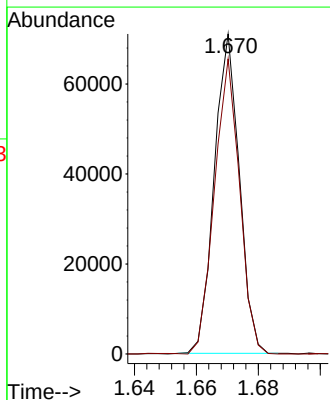
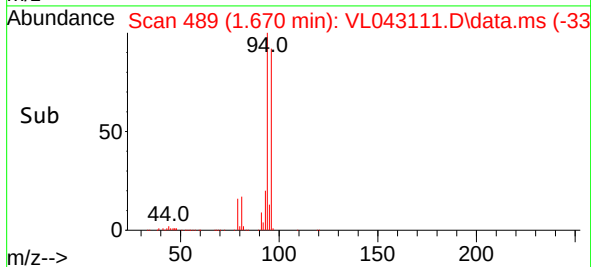
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025

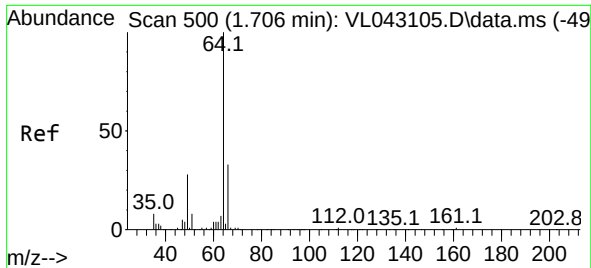


#6
 Bromomethane
 Concen: 13.013 ppbv
 RT: 1.670 min Scan# 489
 Delta R.T. -0.000 min
 Lab File: VL043111.D
 Acq: 14 Oct 2025 14:18



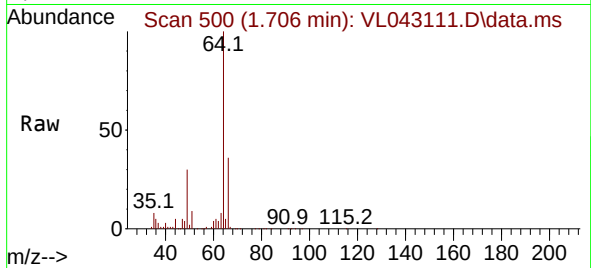
Tgt Ion: 94 Resp: 39756
 Ion Ratio Lower Upper
 94 100
 96 92.4 72.2 108.4





#7
Chloroethane
Concen: 12.164 ppbv
RT: 1.706 min Scan# 500
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

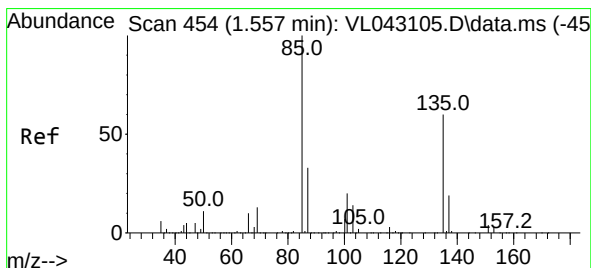
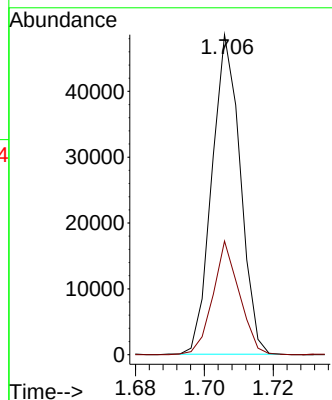
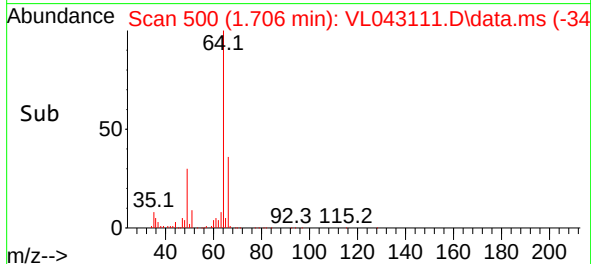
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



Tgt Ion: 64 Resp: 27709
Ion Ratio Lower Upper
64 100
66 35.5 26.0 39.0

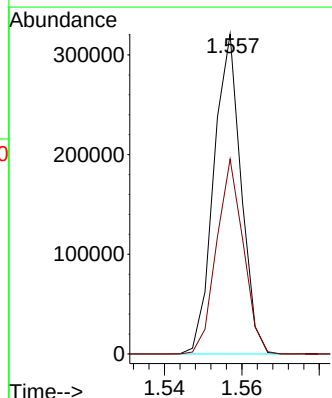
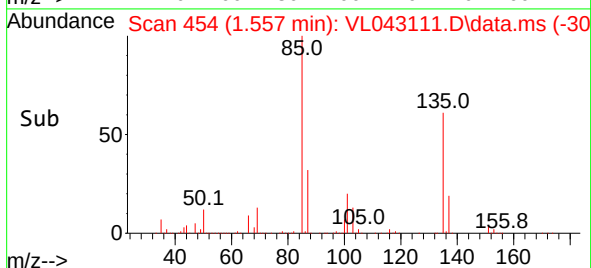
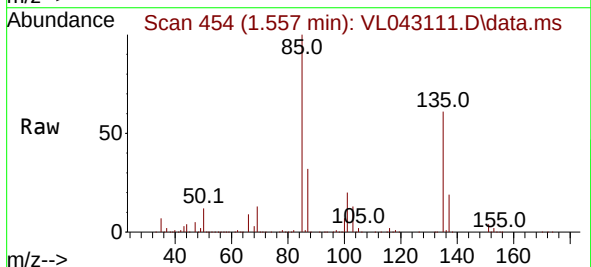
Manual Integrations
APPROVED

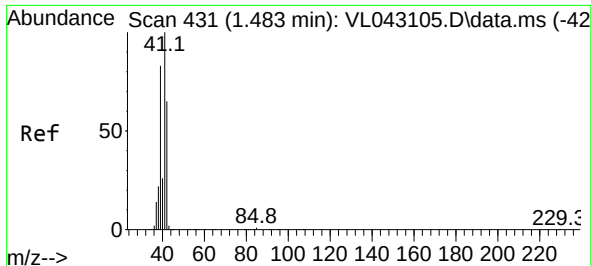
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#8
Dichlorotetrafluoroethane
Concen: 13.526 ppbv
RT: 1.557 min Scan# 454
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 85 Resp: 156753
Ion Ratio Lower Upper
85 100
135 60.1 48.2 72.4





#9

Propene

Concen: 12.854 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

Tgt Ion: 41 Resp: 8845

Ion Ratio Lower Upper

41 100

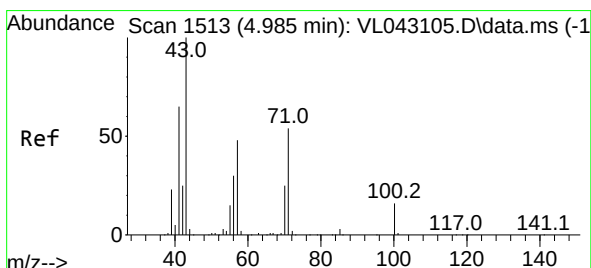
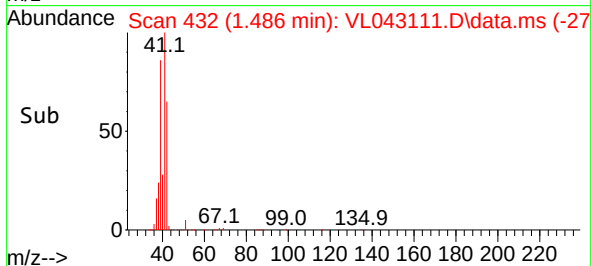
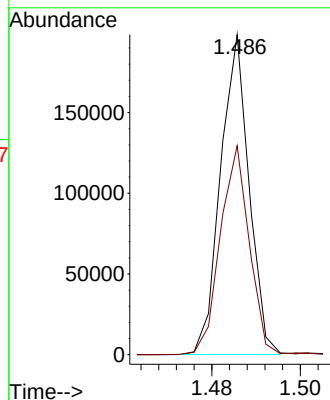
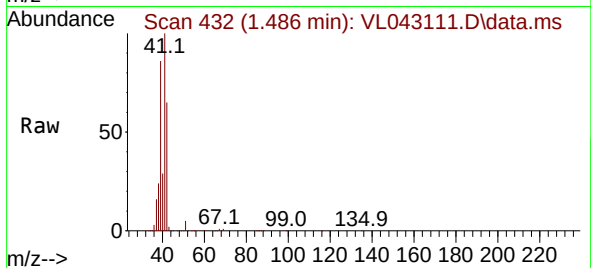
42 67.2 55.1 82.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#10

Heptane

Concen: 12.658 ppbv

RT: 4.985 min Scan# 1513

Delta R.T. -0.000 min

Lab File: VL043111.D

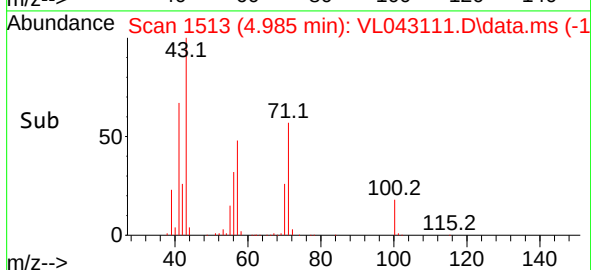
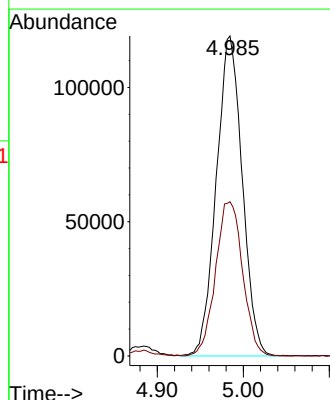
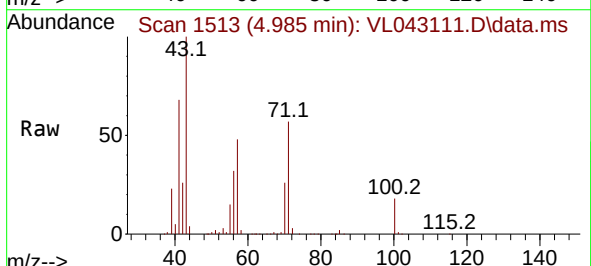
Acq: 14 Oct 2025 14:18

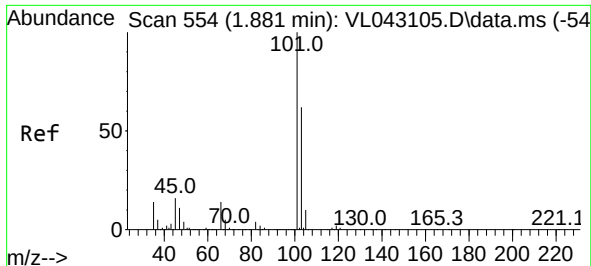
Tgt Ion: 43 Resp: 249682

Ion Ratio Lower Upper

43 100

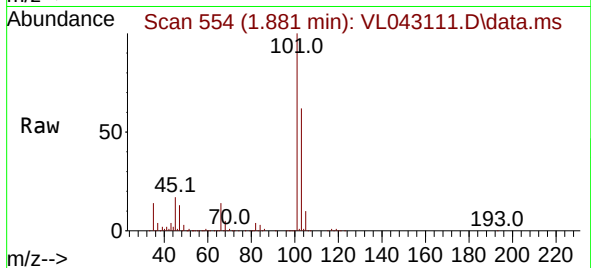
57 50.3 40.8 61.2





#11
 Trichlorofluoromethane
 Concen: 13.640 ppbv
 RT: 1.881 min Scan# 511
 Delta R.T. -0.000 min
 Lab File: VL043111.D
 Acq: 14 Oct 2025 14:18

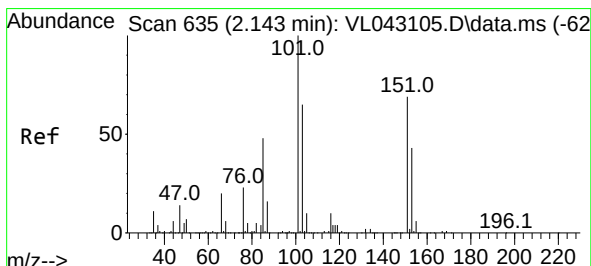
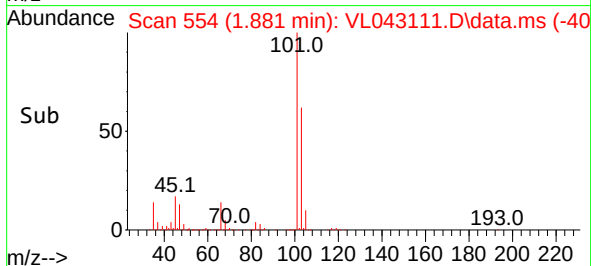
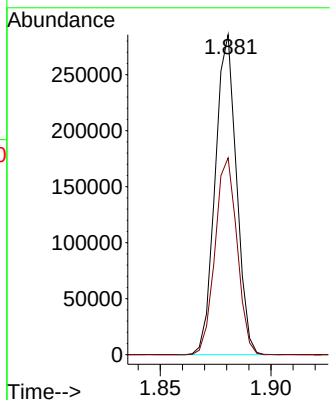
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



Tgt Ion:101 Resp: 191307
 Ion Ratio Lower Upper
 101 100
 103 61.5 49.3 73.9

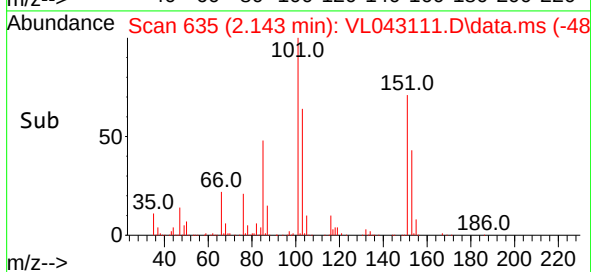
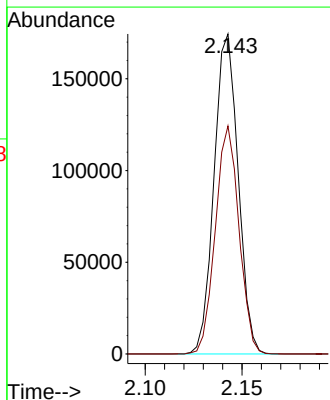
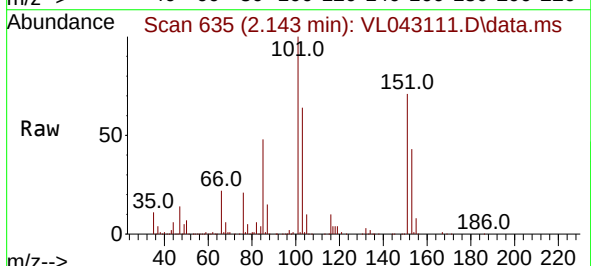
Manual Integrations
 APPROVED

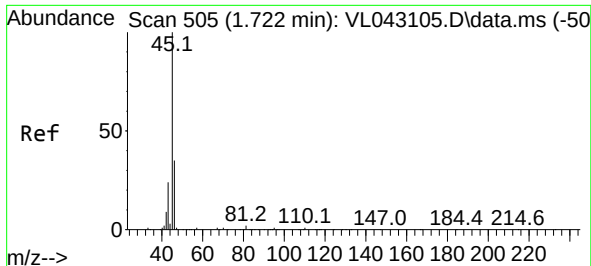
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 13.341 ppbv
 RT: 2.143 min Scan# 635
 Delta R.T. -0.000 min
 Lab File: VL043111.D
 Acq: 14 Oct 2025 14:18

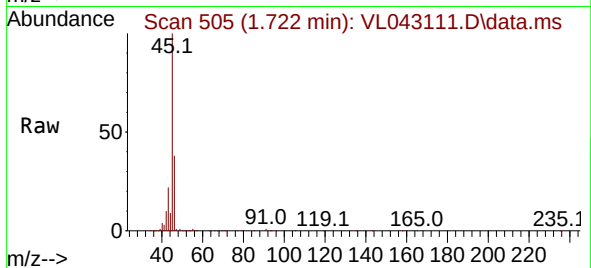
Tgt Ion:101 Resp: 150640
 Ion Ratio Lower Upper
 101 100
 151 70.0 54.7 82.1





#13
Ethanol
Concen: 10.148 ppbv
RT: 1.722 min Scan# 505
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

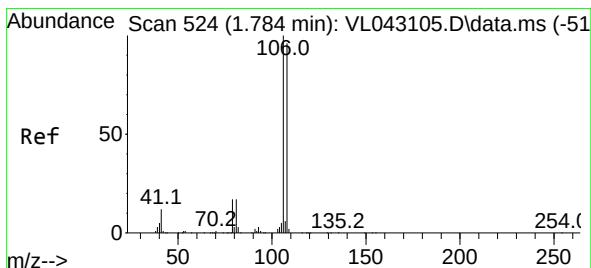
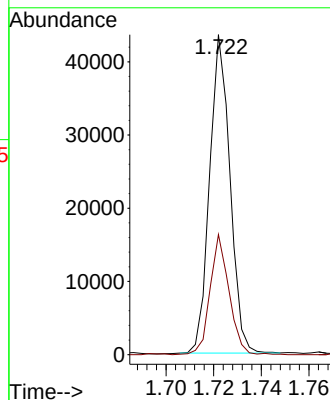
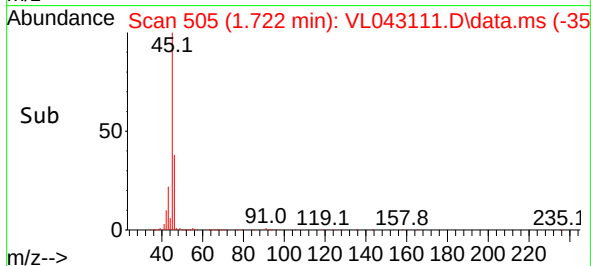
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



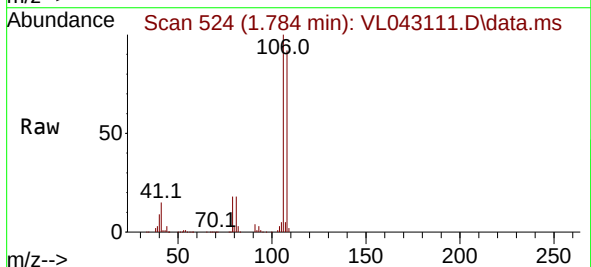
Tgt Ion: 45 Resp: 25828
Ion Ratio Lower Upper
45 100
46 35.5 14.7 58.9

Manual Integrations
APPROVED

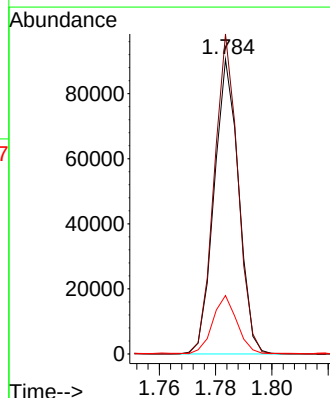
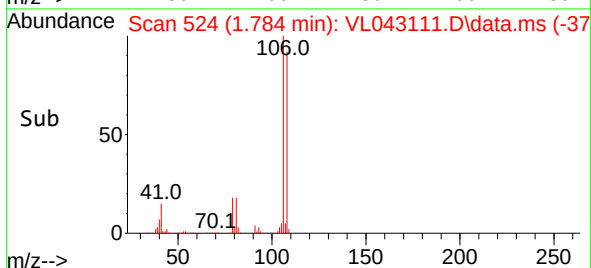
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

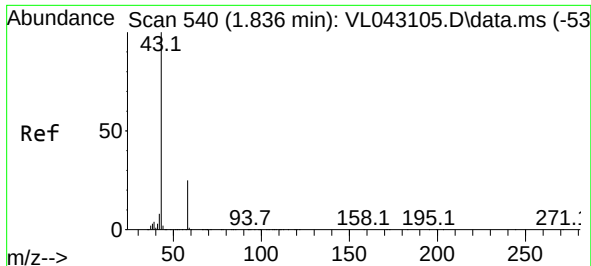


#14
Bromoethene
Concen: 13.068 ppbv
RT: 1.784 min Scan# 524
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18



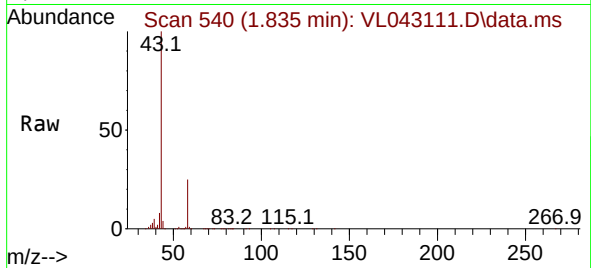
Tgt Ion:108 Resp: 54818
Ion Ratio Lower Upper
108 100
106 104.9 84.4 126.6
79 20.2 15.3 22.9





#15
Acetone
Concen: 11.710 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

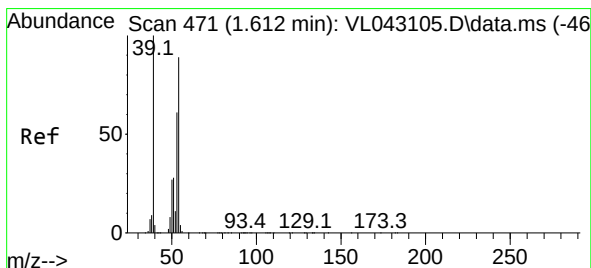
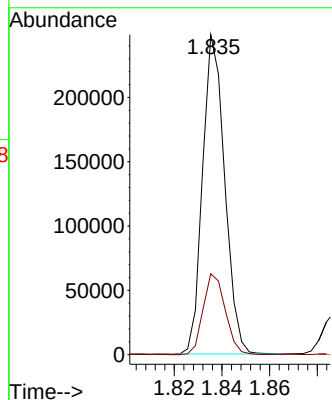
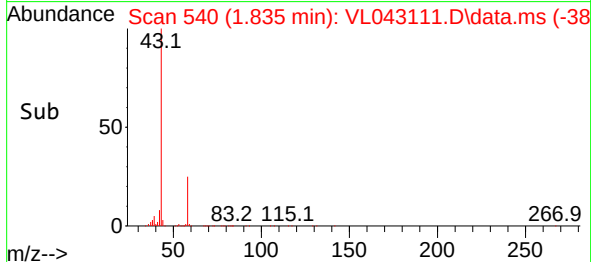
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



Tgt Ion: 43 Resp: 160069
Ion Ratio Lower Upper
43 100
58 26.0 20.8 31.2

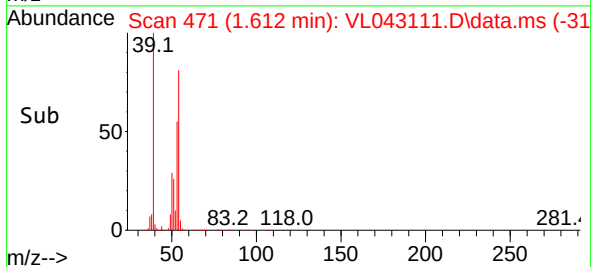
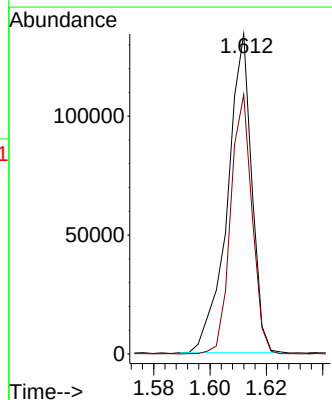
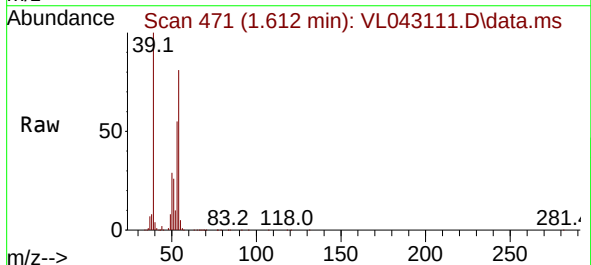
Manual Integrations
APPROVED

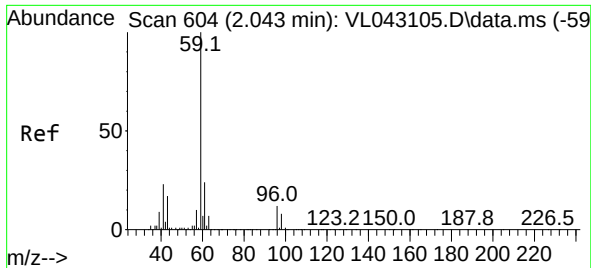
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#16
1,3-Butadiene
Concen: 12.411 ppbv
RT: 1.612 min Scan# 471
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 39 Resp: 80403
Ion Ratio Lower Upper
39 100
54 71.8 59.0 88.4





#17

tert-Butyl alcohol

Concen: 12.735 ppbv

RT: 2.039 min Scan# 603

Delta R.T. -0.004 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

Tgt Ion: 59 Resp: 23763

Ion Ratio Lower Upper

59 100

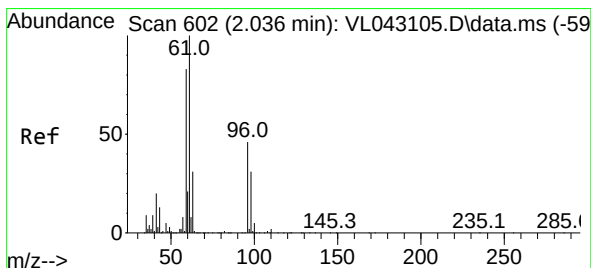
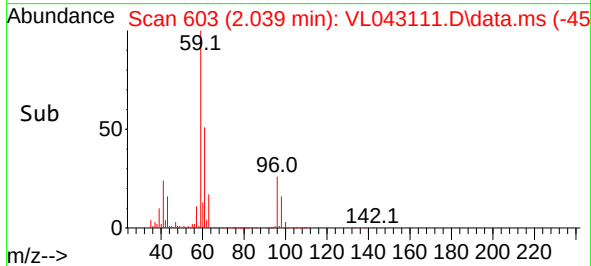
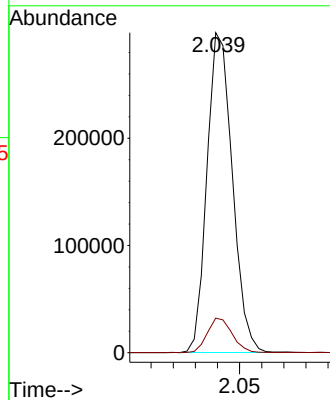
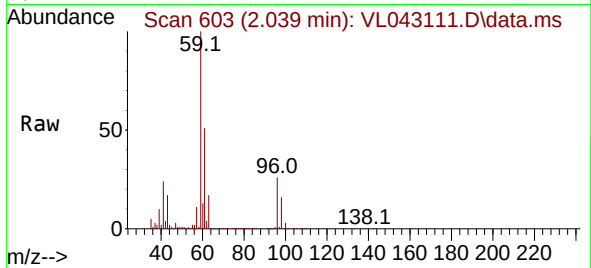
57 10.6 8.2 12.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#18

1,1-Dichloroethene

Concen: 13.333 ppbv

RT: 2.036 min Scan# 602

Delta R.T. -0.000 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

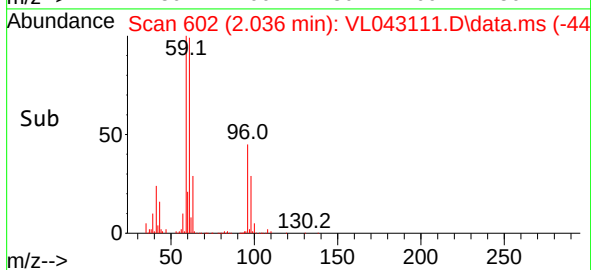
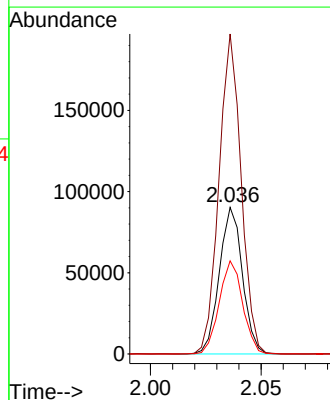
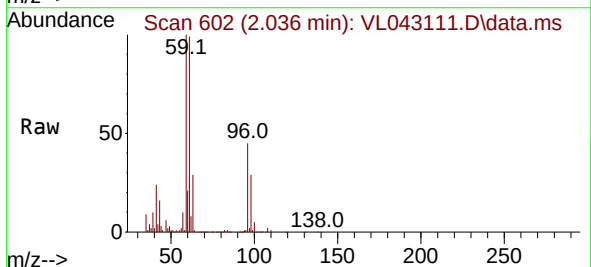
Tgt Ion: 96 Resp: 65634

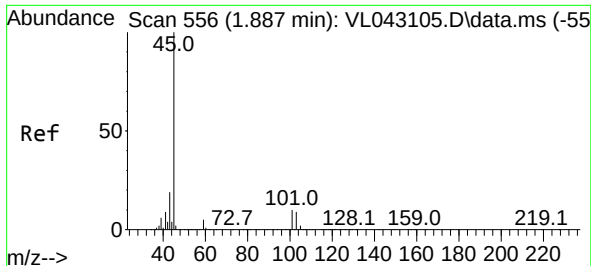
Ion Ratio Lower Upper

96 100

61 218.2 173.4 260.0

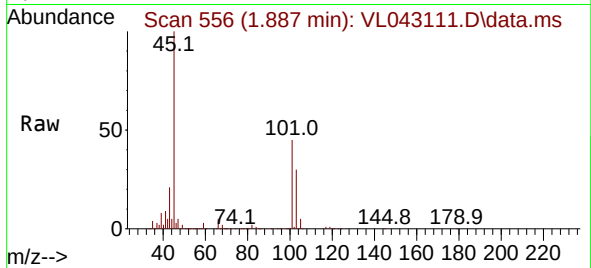
98 63.5 53.2 79.8





#19
Isopropyl Alcohol
Concen: 12.051 ppbv
RT: 1.887 min Scan# 556
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

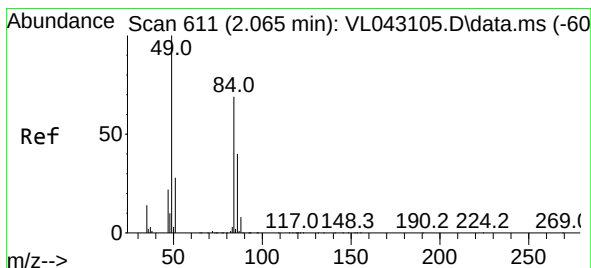
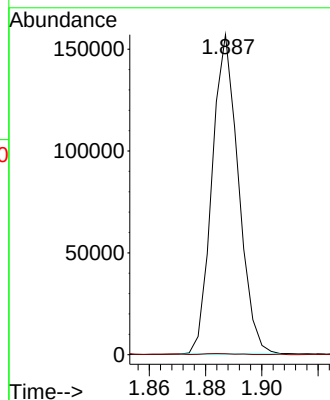
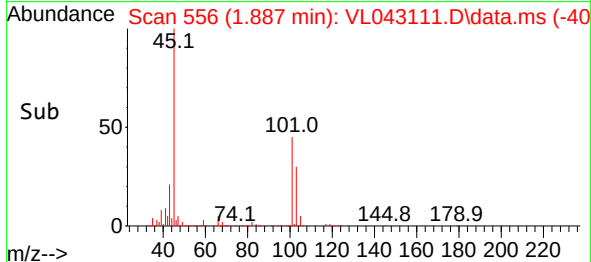
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



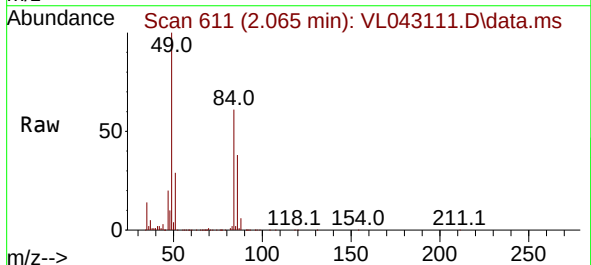
Tgt Ion: 45 Resp: 102035
Ion Ratio Lower Upper
45 100
58 40.2 31.3 46.9

Manual Integrations
APPROVED

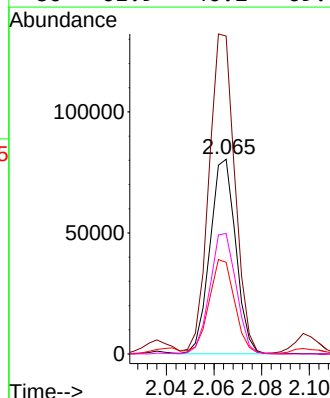
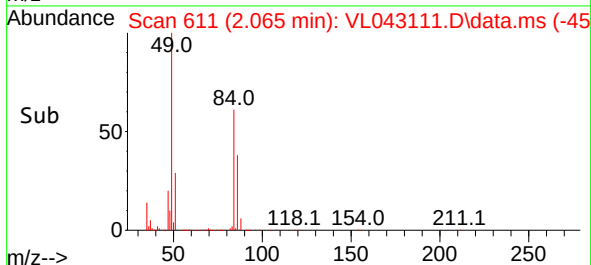
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

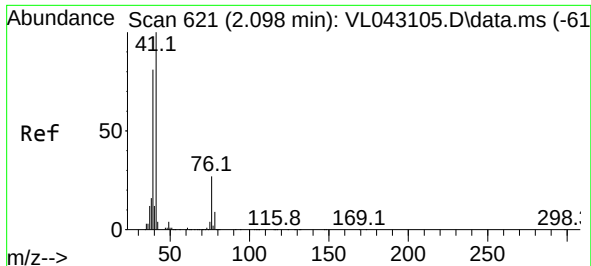


#20
Methylene Chloride
Concen: 11.268 ppbv
RT: 2.065 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18



Tgt Ion: 84 Resp: 60549
Ion Ratio Lower Upper
84 100
49 162.4 116.6 175.0
51 46.6 34.8 52.2
86 61.9 46.2 69.4





#21
 Allyl Chloride
 Concen: 13.105 ppbv
 RT: 2.097 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: VL043111.D
 Acq: 14 Oct 2025 14:18

Instrument :

MSVOA_L

ClientSampleId :

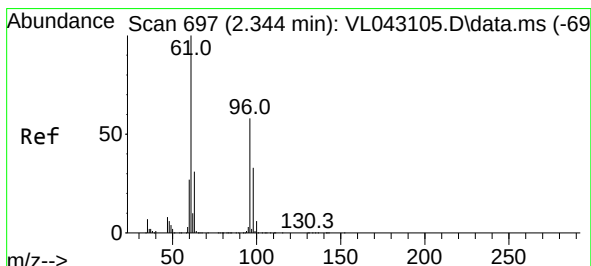
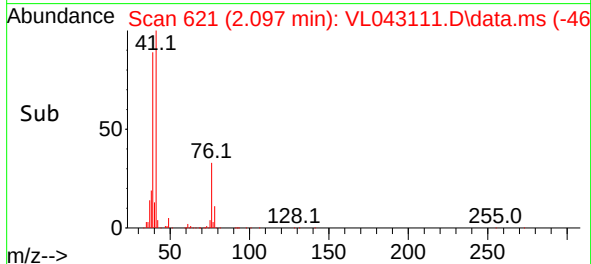
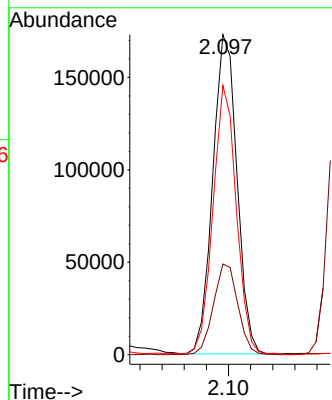
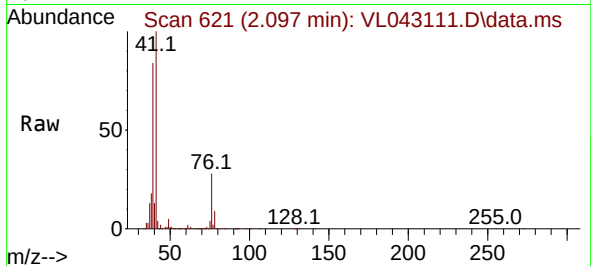
VSTDICC015

Tgt Ion: 41 Resp: 131539
 Ion Ratio Lower Upper
 41 100
 76 28.8 21.5 32.3
 39 80.9 60.8 91.2

Manual Integrations

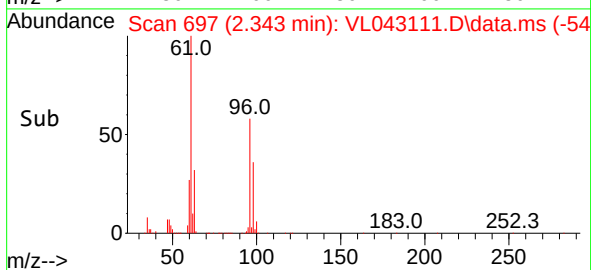
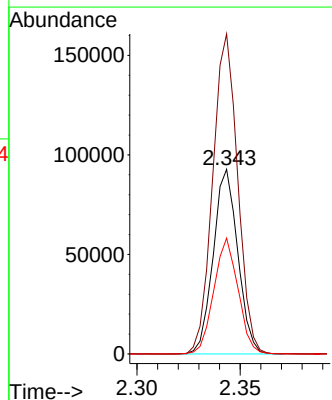
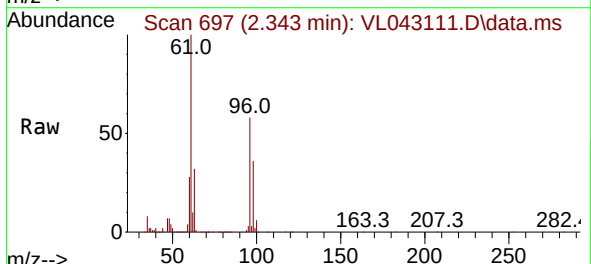
APPROVED

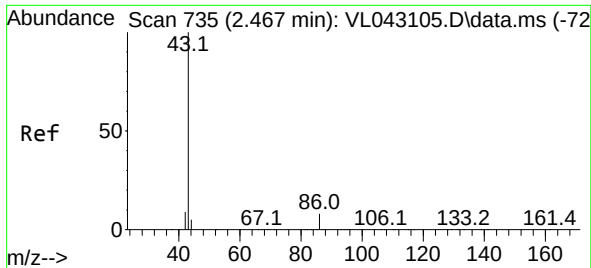
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025



#22
 trans-1,2-Dichloroethene
 Concen: 13.048 ppbv
 RT: 2.343 min Scan# 697
 Delta R.T. -0.000 min
 Lab File: VL043111.D
 Acq: 14 Oct 2025 14:18

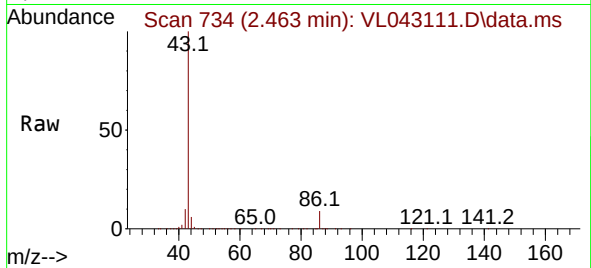
Tgt Ion: 96 Resp: 76780
 Ion Ratio Lower Upper
 96 100
 61 173.2 137.0 205.6
 98 62.8 45.5 68.3





#23
 Vinyl Acetate
 Concen: 14.476 ppbv
 RT: 2.463 min Scan# 718
 Delta R.T. -0.004 min
 Lab File: VL043111.D
 Acq: 14 Oct 2025 14:18

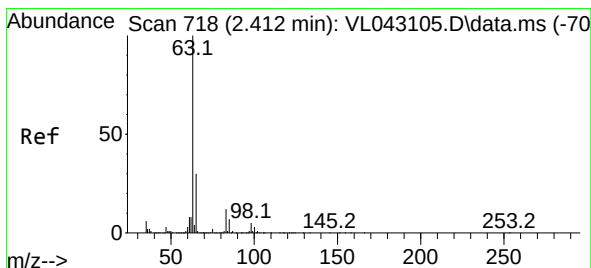
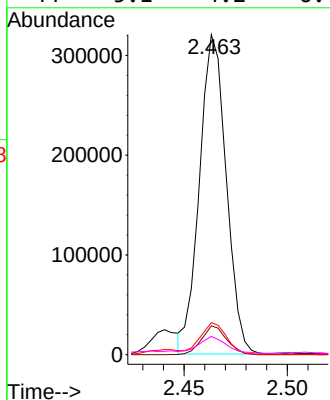
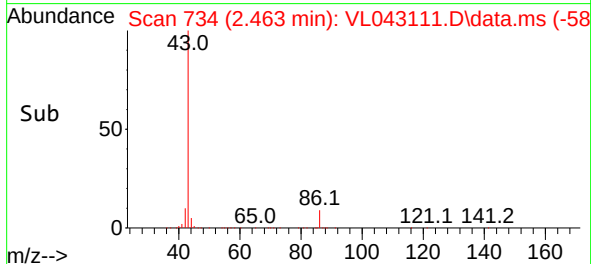
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



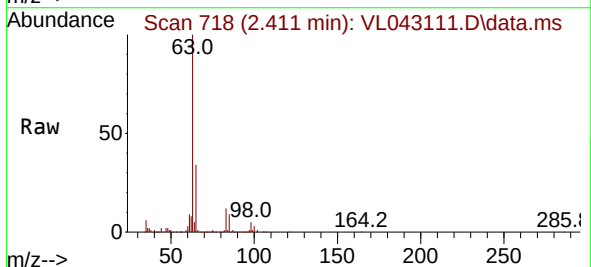
Tgt Ion: 43 Resp: 288274
 Ion Ratio Lower Upper
 43 100
 86 9.0 6.2 9.2
 42 10.0 7.6 11.4
 44 5.1 4.2 6.4

Manual Integrations
 APPROVED

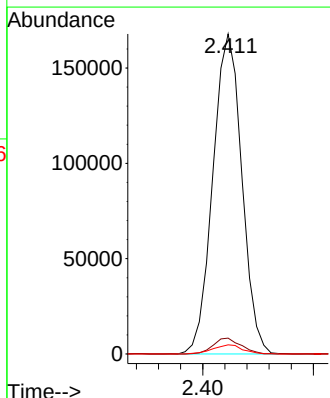
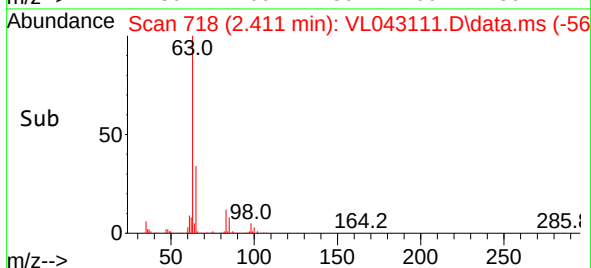
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025

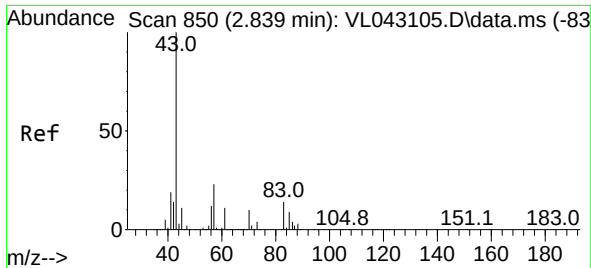


#24
 1,1-Dichloroethane
 Concen: 13.428 ppbv
 RT: 2.411 min Scan# 718
 Delta R.T. -0.000 min
 Lab File: VL043111.D
 Acq: 14 Oct 2025 14:18



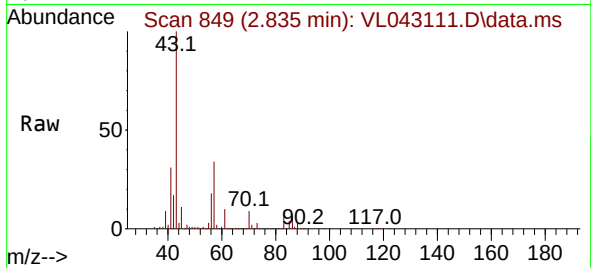
Tgt Ion: 63 Resp: 152663
 Ion Ratio Lower Upper
 63 100
 98 4.9 2.6 7.8
 100 2.8 1.5 4.4





#25
Ethyl Acetate
Concen: 12.884 ppbv
RT: 2.835 min Scan# 849
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

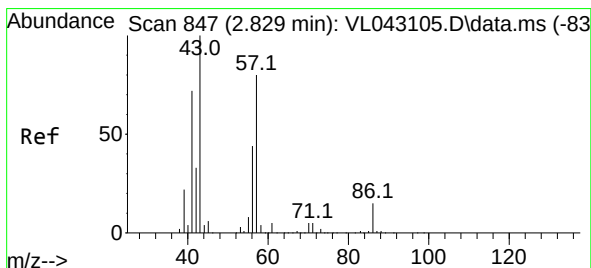
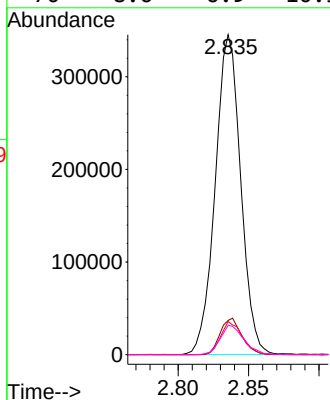
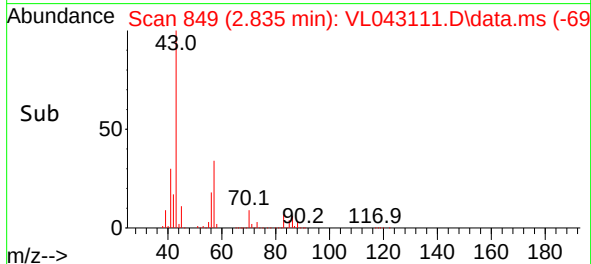
Instrument : MSVOA_L
ClientSampleId : VSTDIC015



Tgt Ion: 43 Resp: 434350
Ion Ratio Lower Upper
43 100
45 9.8 7.8 11.8
61 8.9 7.0 10.6
70 8.6 6.9 10.3

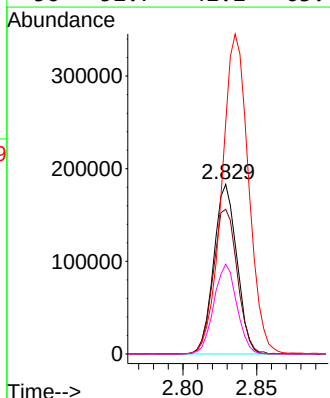
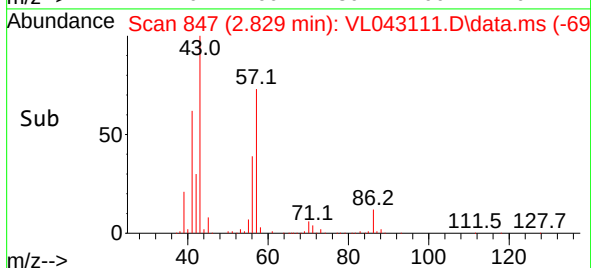
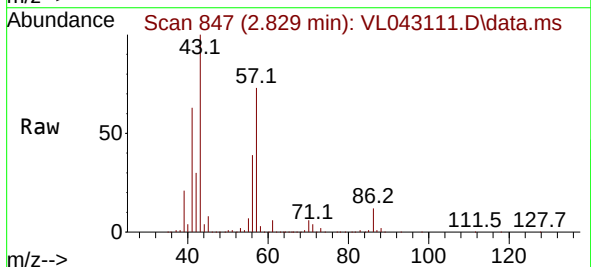
Manual Integrations
APPROVED

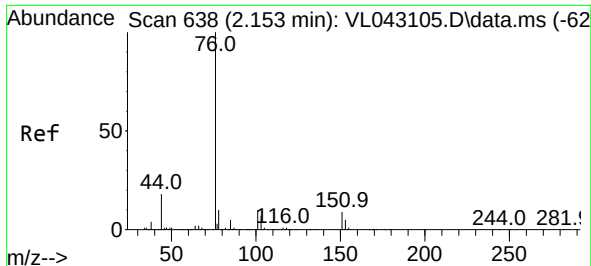
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#26
Hexane
Concen: 12.836 ppbv
RT: 2.829 min Scan# 847
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

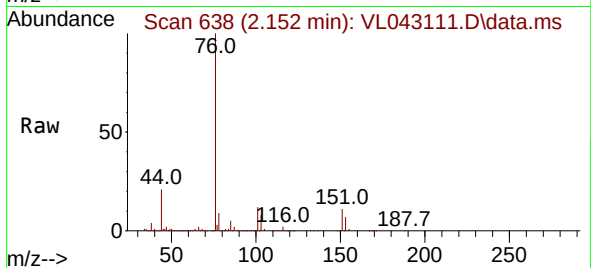
Tgt Ion: 57 Resp: 199384
Ion Ratio Lower Upper
57 100
41 89.9 71.4 107.0
43 218.2 178.5 267.7
56 52.7 42.2 63.4





#27
Carbon Disulfide
Concen: 13.522 ppbv
RT: 2.152 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

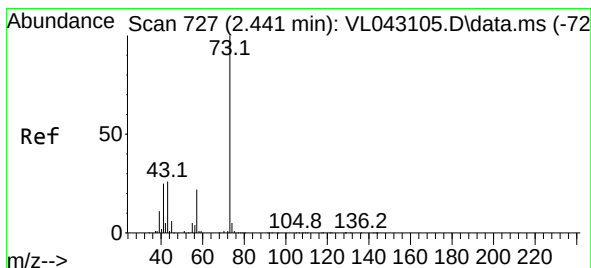
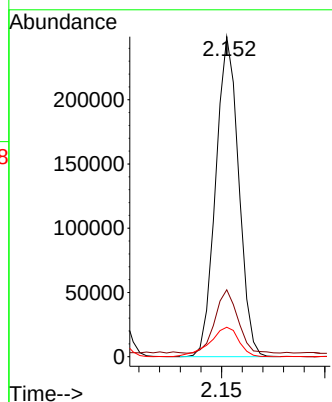
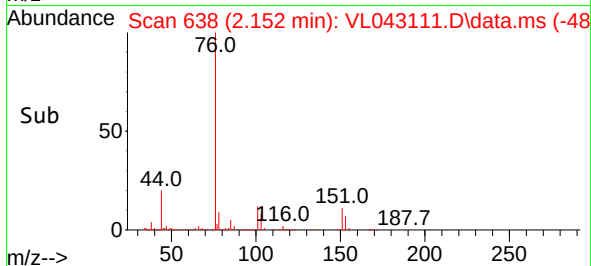
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



Tgt Ion: 76 Resp: 192452
Ion Ratio Lower Upper
76 100
44 20.6 16.7 25.1
78 11.6 9.3 13.9

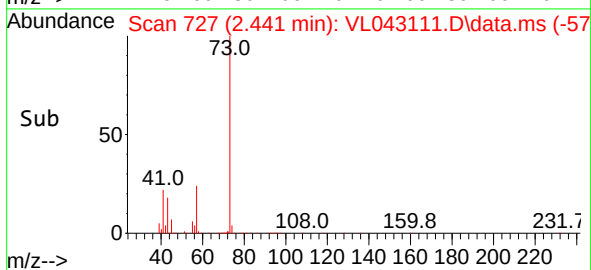
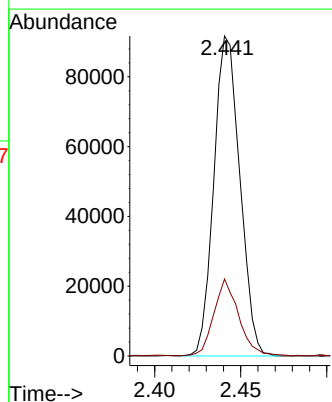
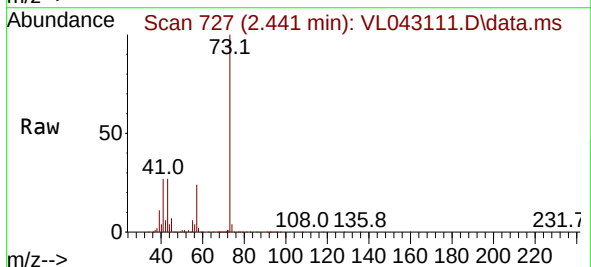
Manual Integrations
APPROVED

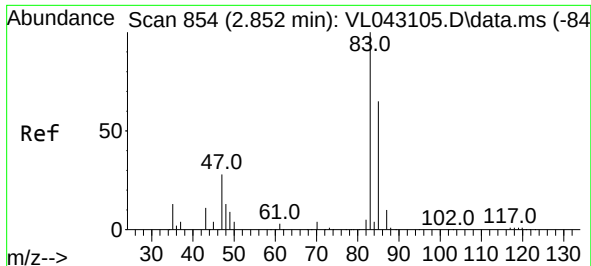
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#28
Methyl tert-Butyl Ether
Concen: 13.650 ppbv
RT: 2.441 min Scan# 727
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 73 Resp: 96464
Ion Ratio Lower Upper
73 100
57 22.7 20.5 30.7





#29

Chloroform

Concen: 13.425 ppbv

RT: 2.852 min Scan# 81

Delta R.T. -0.000 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

Tgt Ion: 83 Resp: 302154

Ion Ratio Lower Upper

83 100

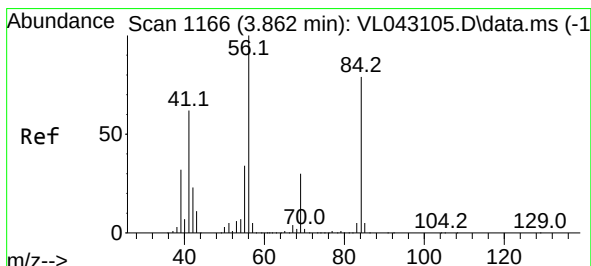
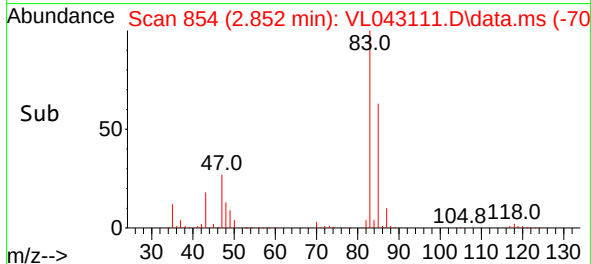
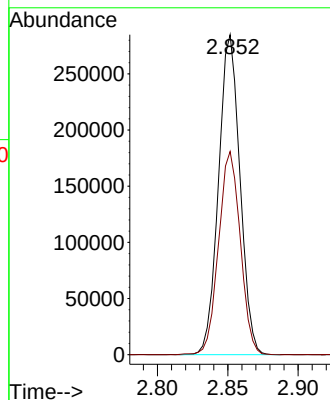
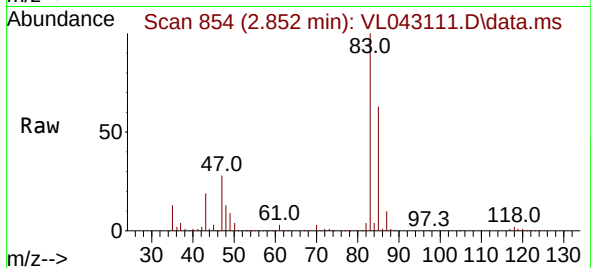
85 63.5 51.8 77.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#30

Cyclohexane

Concen: 13.133 ppbv

RT: 3.858 min Scan# 1165

Delta R.T. -0.004 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

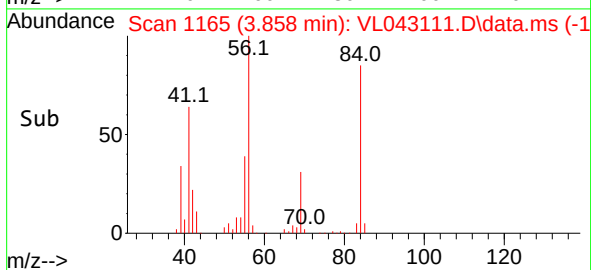
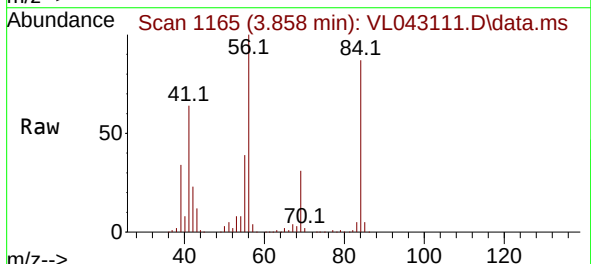
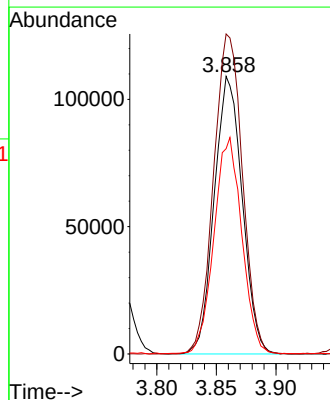
Tgt Ion: 84 Resp: 177947

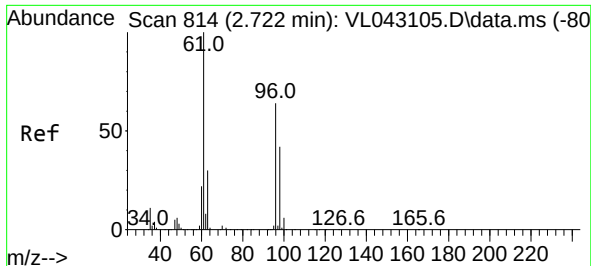
Ion Ratio Lower Upper

84 100

56 119.1 100.9 151.3

41 77.3 63.8 95.6





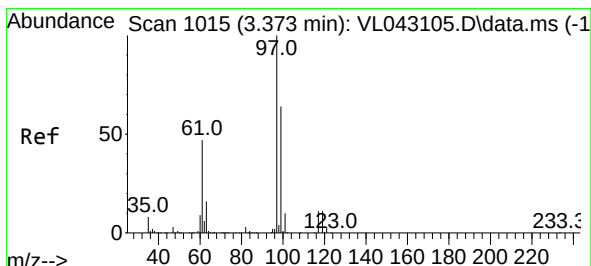
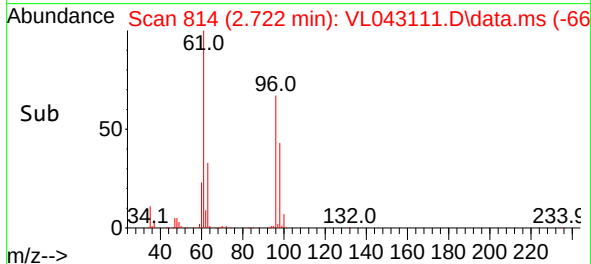
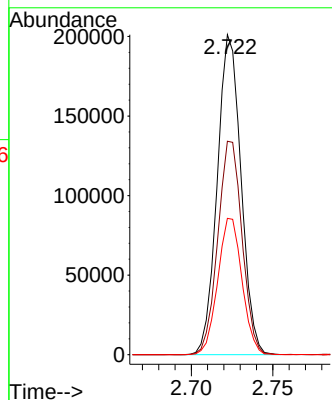
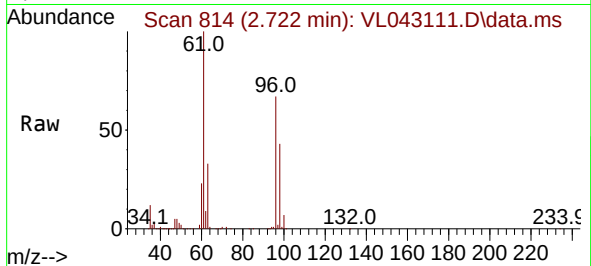
#31
 cis-1,2-Dichloroethene
 Concen: 13.745 ppbv
 RT: 2.722 min Scan# 814
 Delta R.T. -0.000 min
 Lab File: VL043111.D
 Acq: 14 Oct 2025 14:18

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015

Tgt Ion: 61 Resp: 20388
 Ion Ratio Lower Upper
 61 100
 96 66.7 51.0 76.6
 98 42.6 33.5 50.3

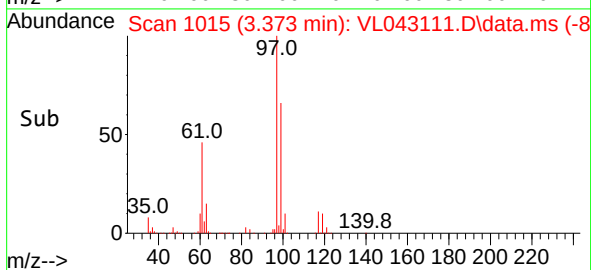
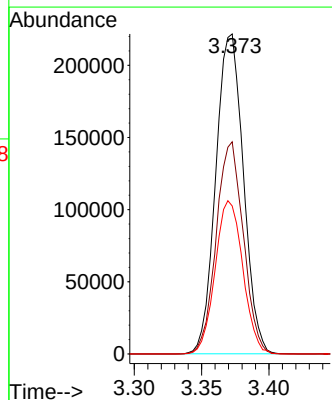
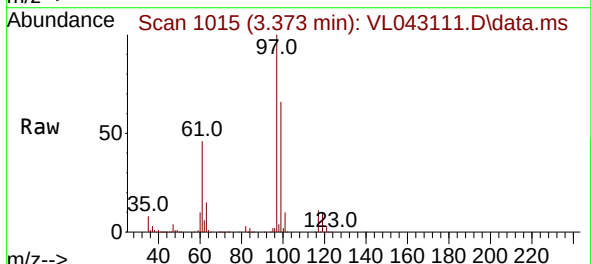
Manual Integrations
 APPROVED

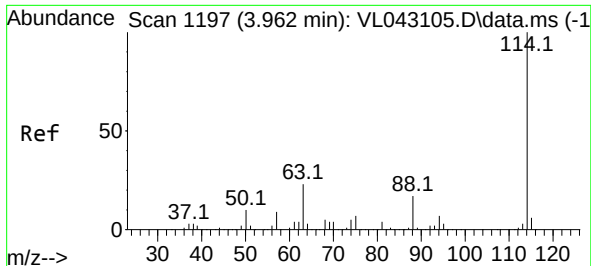
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025



#32
 1,1,1-Trichloroethane
 Concen: 13.500 ppbv
 RT: 3.373 min Scan# 1015
 Delta R.T. -0.000 min
 Lab File: VL043111.D
 Acq: 14 Oct 2025 14:18

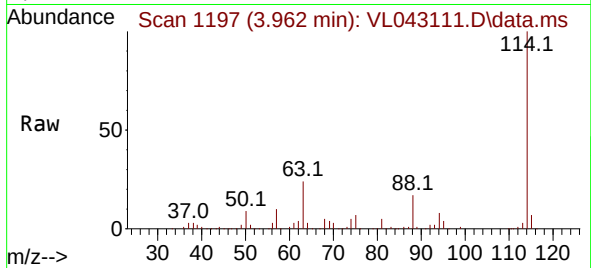
Tgt Ion: 97 Resp: 316442
 Ion Ratio Lower Upper
 97 100
 99 65.2 51.3 76.9
 61 48.0 38.4 57.6





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

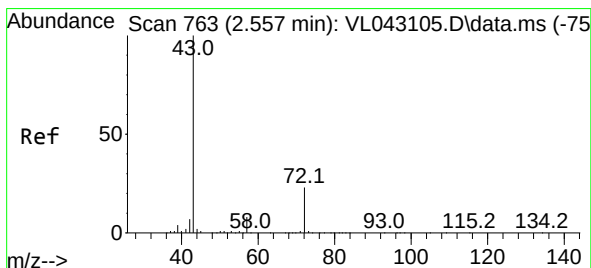
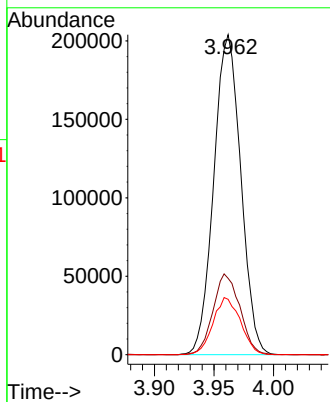
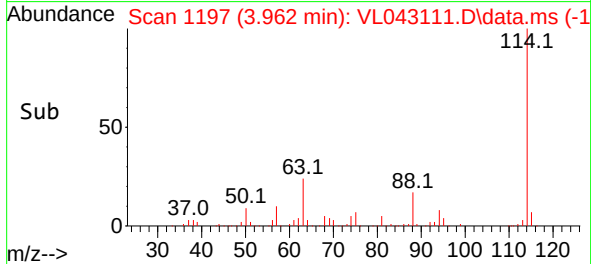
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



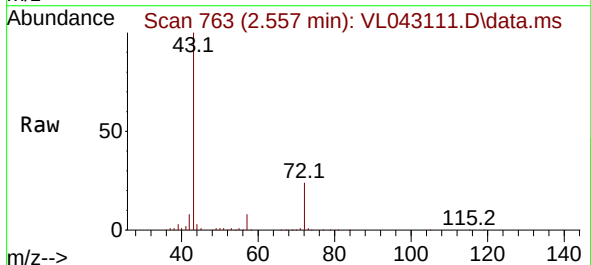
Tgt Ion:114 Resp: 32166
Ion Ratio Lower Upper
114 100
63 25.1 19.3 28.9
88 18.1 13.9 20.9

Manual Integrations
APPROVED

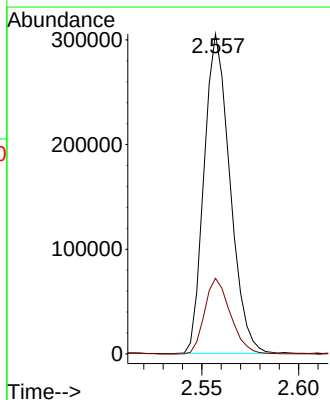
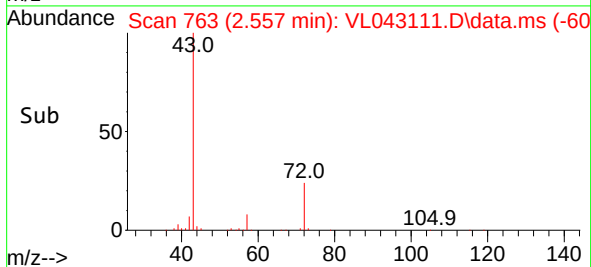
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

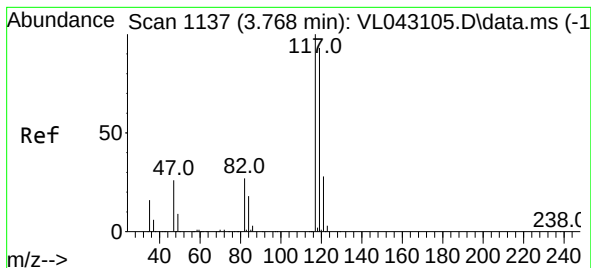


#34
2-Butanone
Concen: 13.020 ppbv
RT: 2.557 min Scan# 763
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18



Tgt Ion: 43 Resp: 283134
Ion Ratio Lower Upper
43 100
72 23.6 18.4 27.6





#35

Carbon Tetrachloride

Concen: 14.056 ppbv

RT: 3.764 min Scan# 1136

Delta R.T. -0.004 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 117 Resp: 325078

Ion Ratio Lower Upper

117 100

119 93.8 74.1 111.1

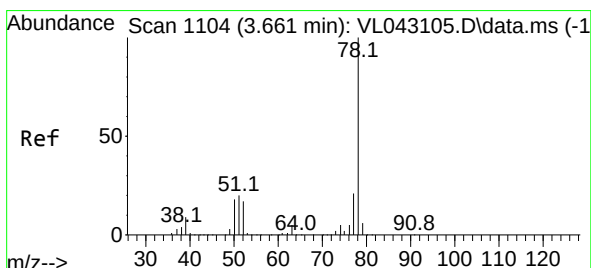
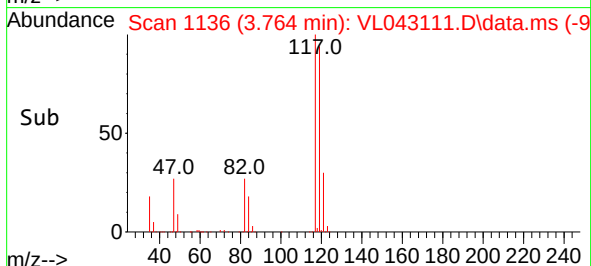
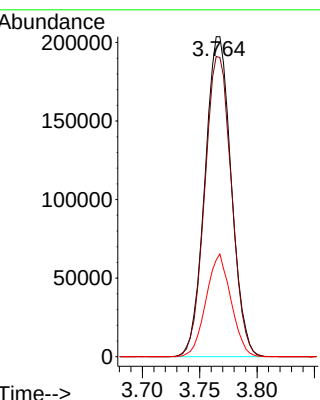
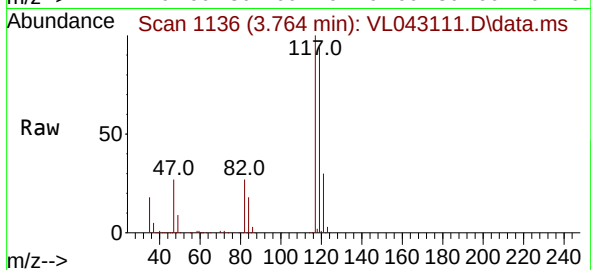
121 30.2 22.2 33.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#36

Benzene

Concen: 13.725 ppbv

RT: 3.661 min Scan# 1104

Delta R.T. -0.000 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

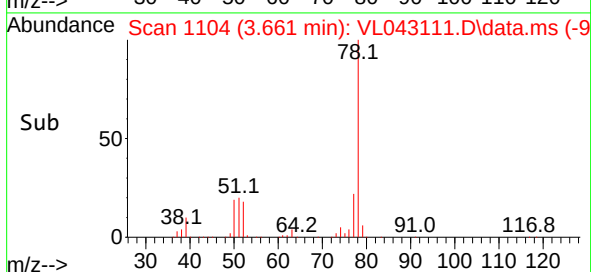
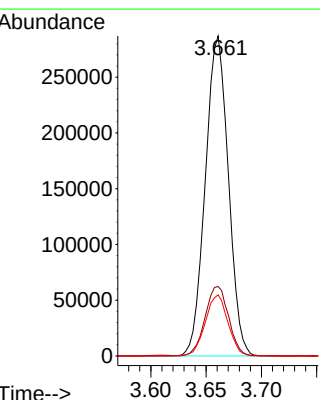
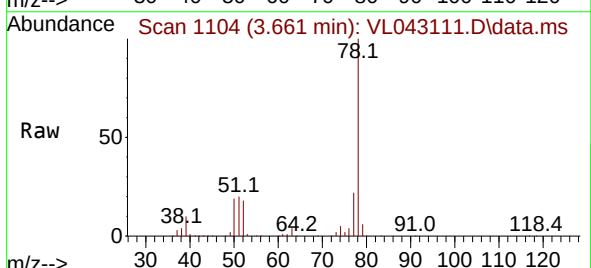
Tgt Ion: 78 Resp: 415823

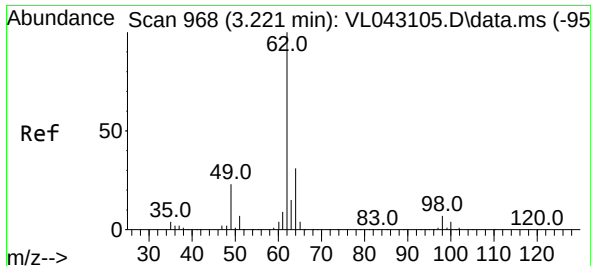
Ion Ratio Lower Upper

78 100

77 21.6 17.0 25.6

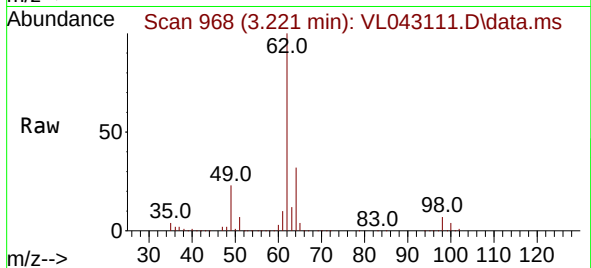
50 19.1 14.6 22.0





#37
1,2-Dichloroethane
Concen: 13.865 ppbv
RT: 3.221 min Scan# 968
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

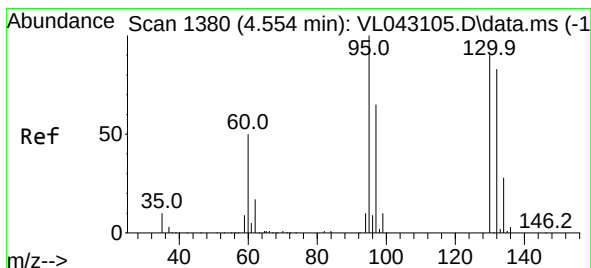
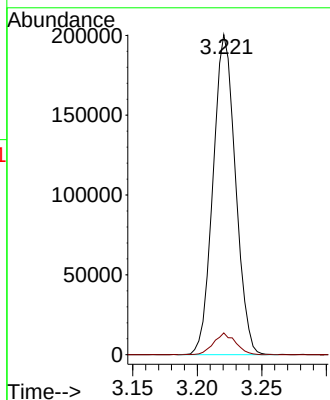
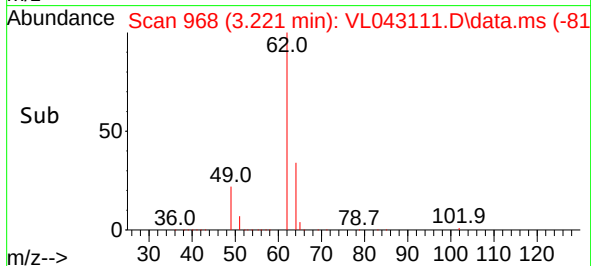
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



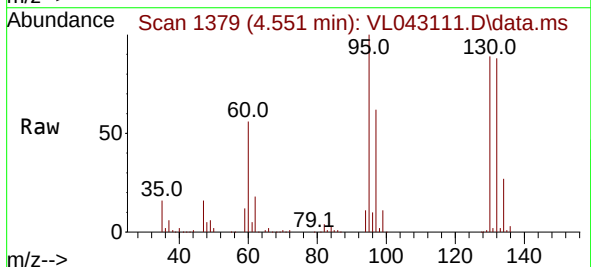
Tgt Ion: 62 Resp: 24198
Ion Ratio Lower Upper
62 100
98 6.6 5.8 8.6

Manual Integrations
APPROVED

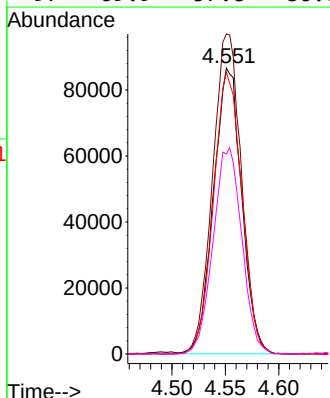
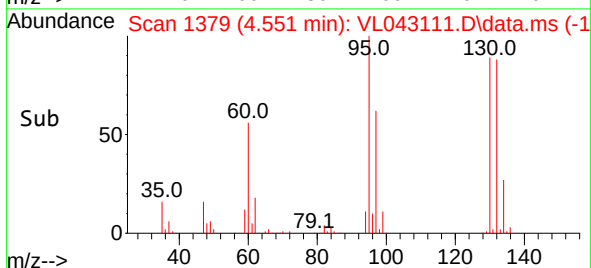
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

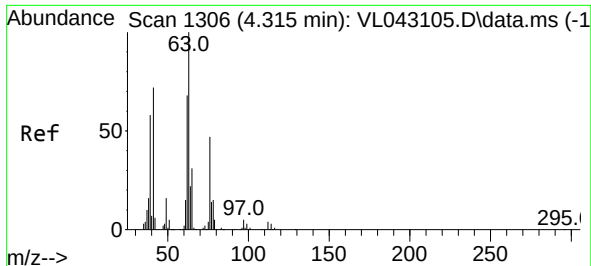


#38
Trichloroethene
Concen: 12.590 ppbv
RT: 4.551 min Scan# 1379
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18



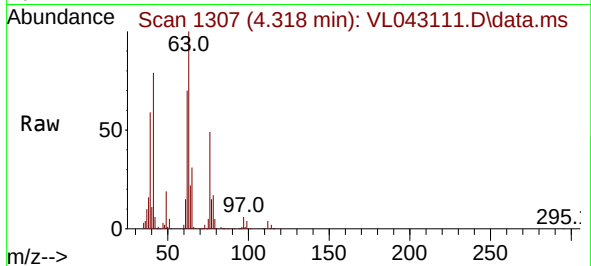
Tgt Ion:130 Resp: 159136
Ion Ratio Lower Upper
130 100
95 111.8 88.6 133.0
132 98.5 73.4 110.0
97 69.9 57.8 86.6





#39
1,2-Dichloropropane
Concen: 13.274 ppbv
RT: 4.318 min Scan# 1306
Delta R.T. 0.003 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

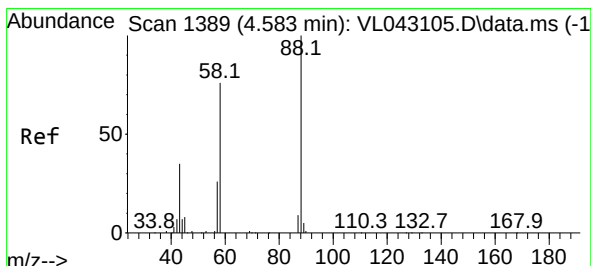
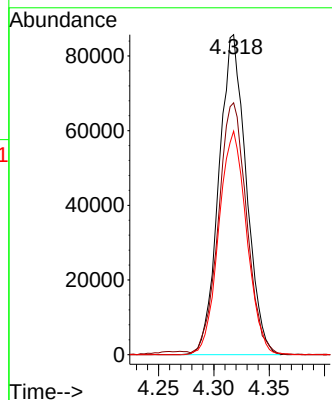
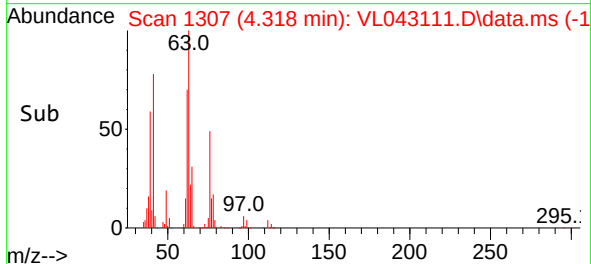
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



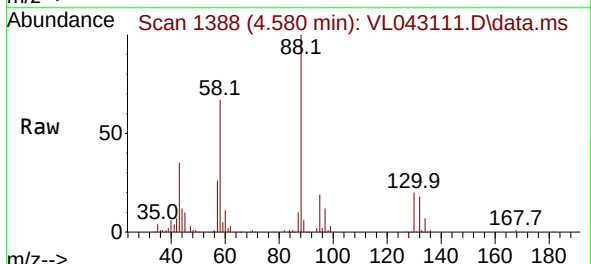
Tgt Ion: 63 Resp: 14715
Ion Ratio Lower Upper
63 100
41 78.4 58.0 87.0
62 69.9 54.7 82.1

Manual Integrations
APPROVED

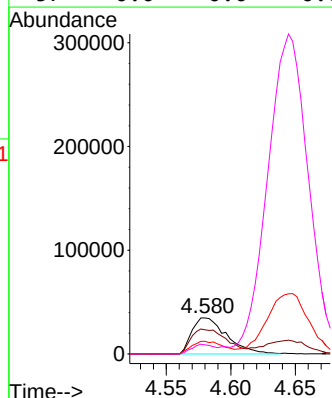
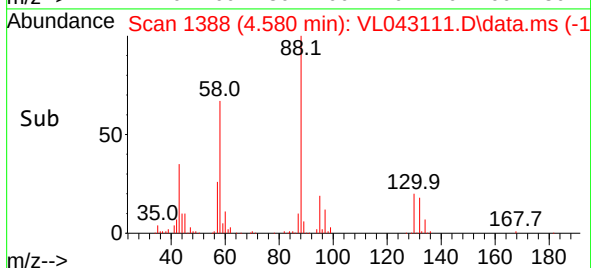
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

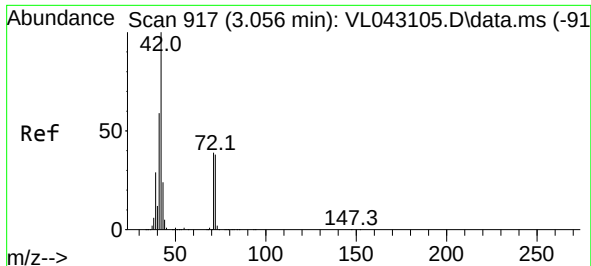


#40
1,4-Dioxane
Concen: 13.180 ppbv
RT: 4.580 min Scan# 1388
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18



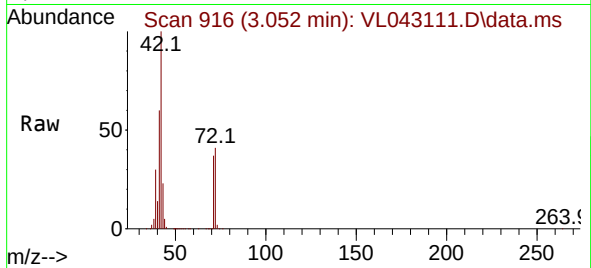
Tgt Ion: 88 Resp: 65323
Ion Ratio Lower Upper
88 100
58 69.1 61.1 91.7
43 30.0 24.0 36.0
57 0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 13.200 ppbv
RT: 3.052 min Scan# 917
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

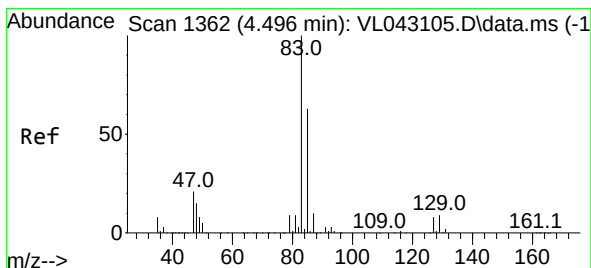
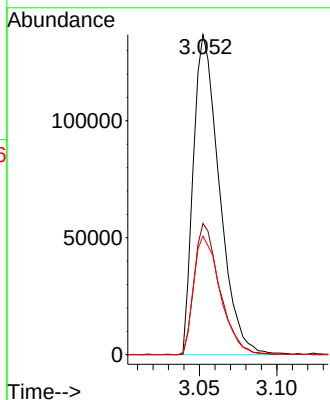
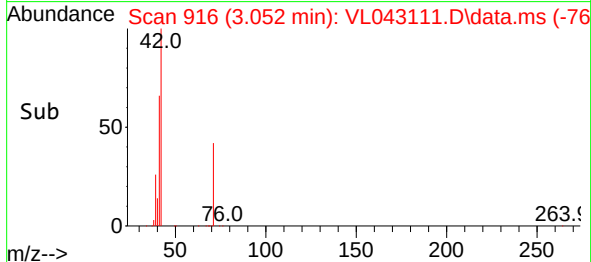
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



Tgt Ion: 42 Resp: 16024
Ion Ratio Lower Upper
42 100
72 40.0 31.3 46.9
71 38.2 30.4 45.6

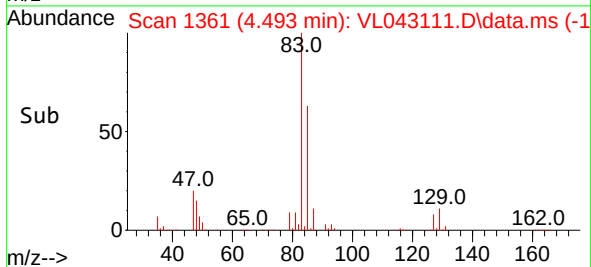
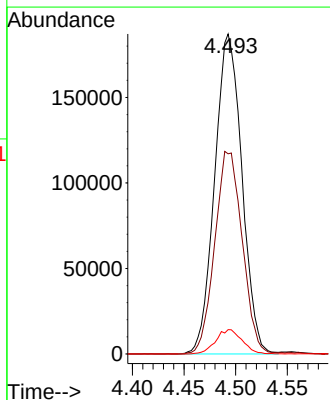
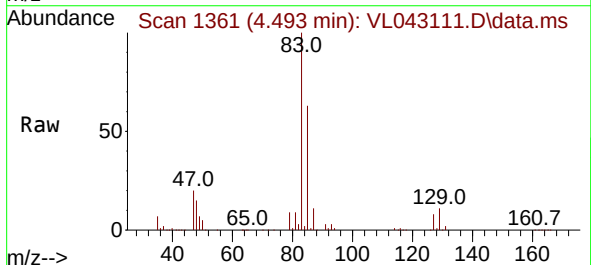
Manual Integrations
APPROVED

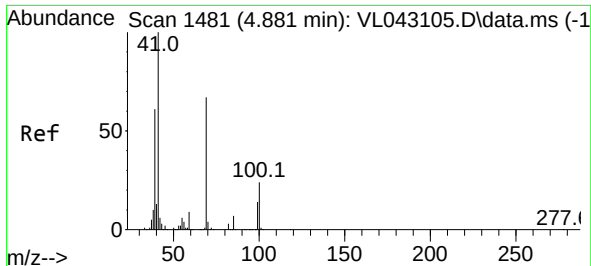
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#42
Bromodichloromethane
Concen: 14.234 ppbv
RT: 4.493 min Scan# 1361
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 83 Resp: 343817
Ion Ratio Lower Upper
83 100
85 62.5 50.6 75.8
127 7.6 6.3 9.5





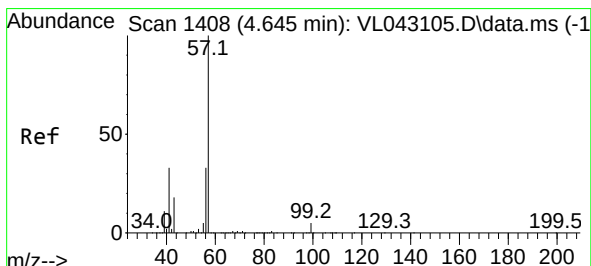
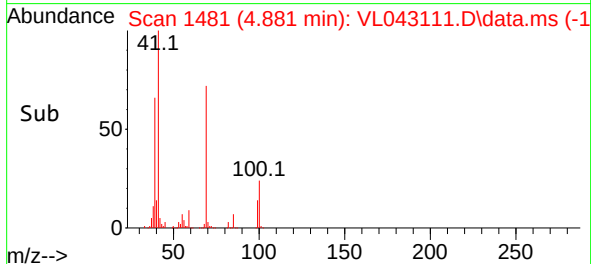
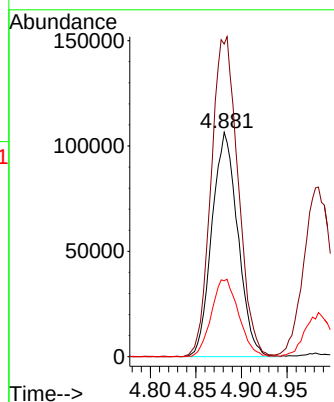
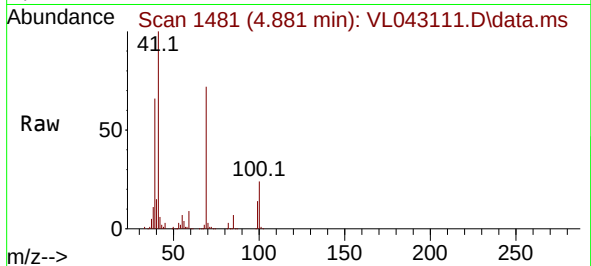
#43
Methyl Methacrylate
Concen: 13.633 ppbv
RT: 4.881 min Scan# 1481
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 69 Resp: 210750
Ion Ratio Lower Upper
69 100
41 148.2 120.5 180.7
100 36.3 29.0 43.4

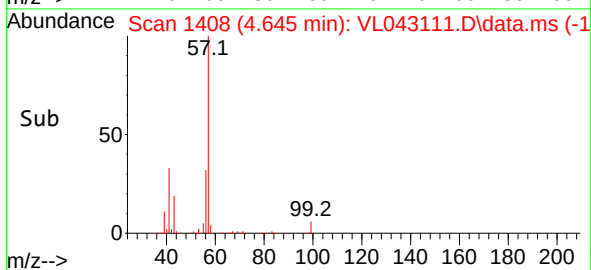
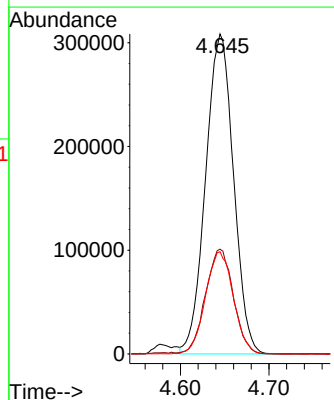
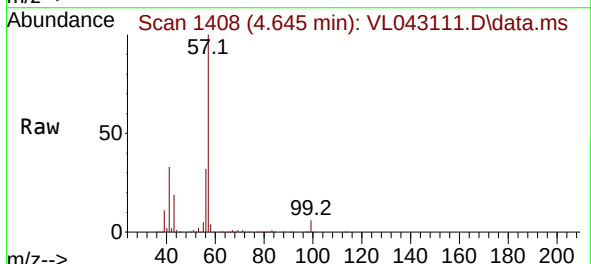
Manual Integrations
APPROVED

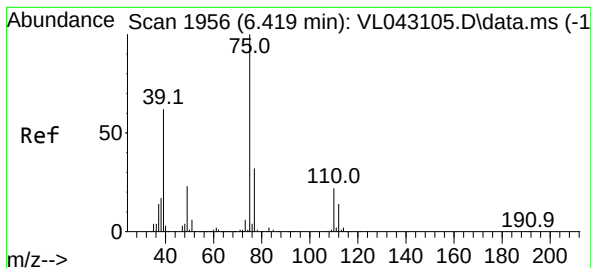
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#44
2,2,4-Trimethylpentane
Concen: 13.340 ppbv
RT: 4.645 min Scan# 1408
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 57 Resp: 675770
Ion Ratio Lower Upper
57 100
41 33.2 26.3 39.5
56 31.9 25.9 38.9





#45

t-1,3-Dichloropropene

Concen: 14.142 ppbv

RT: 6.418 min Scan# 1956

Delta R.T. -0.000 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

Tgt Ion: 75 Resp: 21838

Ion Ratio Lower Upper

75 100

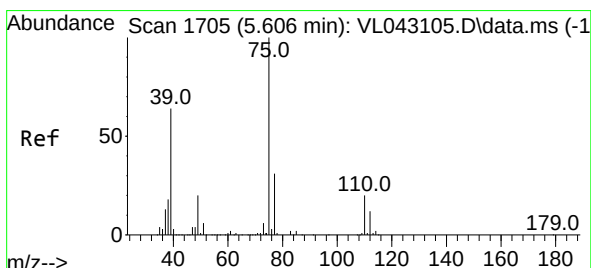
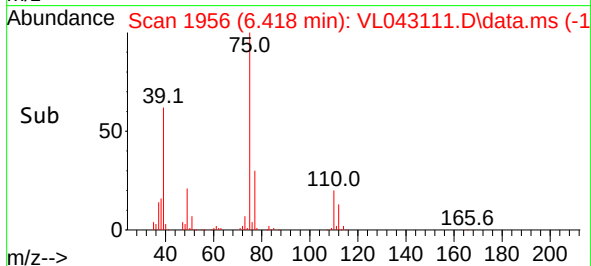
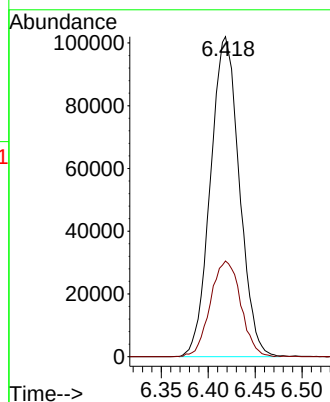
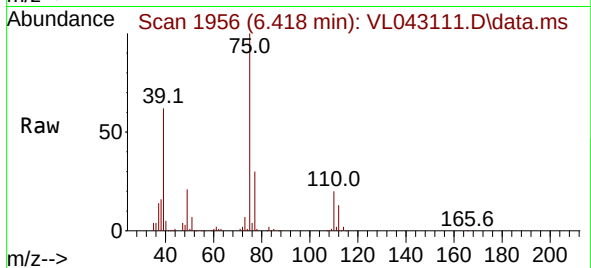
77 29.9 25.4 38.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#46

cis-1,3-Dichloropropene

Concen: 14.018 ppbv

RT: 5.606 min Scan# 1705

Delta R.T. -0.000 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

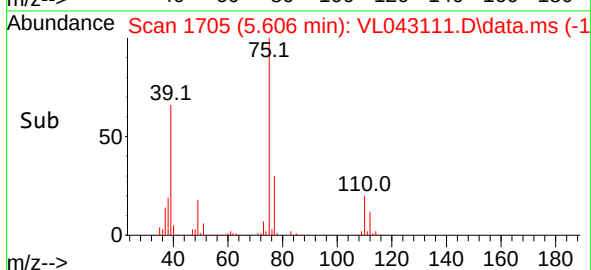
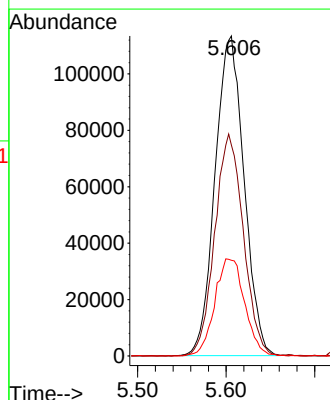
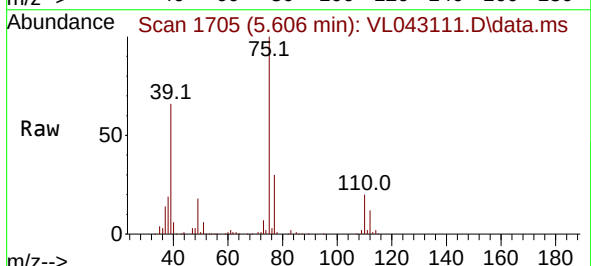
Tgt Ion: 75 Resp: 258355

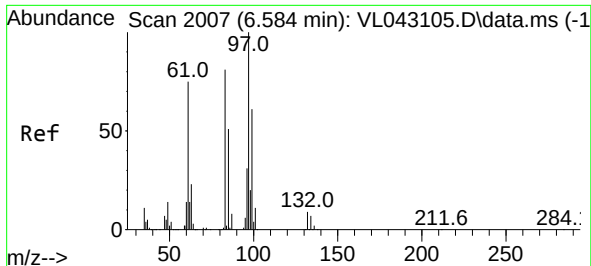
Ion Ratio Lower Upper

75 100

39 65.8 51.0 76.6

77 29.9 25.0 37.4





#47

1,1,2-Trichloroethane

Concen: 13.638 ppbv

RT: 6.583 min Scan# 2007

Delta R.T. -0.000 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

Tgt Ion: 97 Resp: 16311

Ion Ratio Lower Upper

97 100

83 88.4 64.6 96.8

85 52.4 40.6 60.8

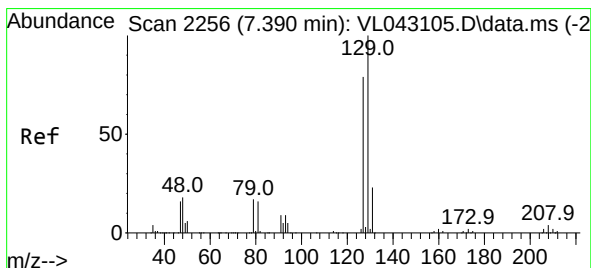
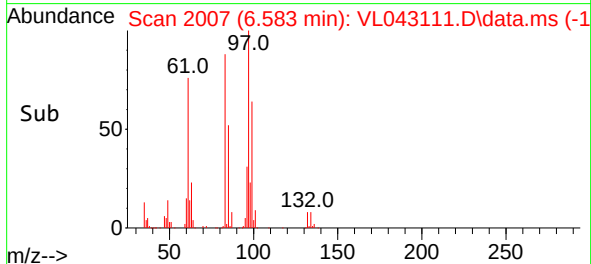
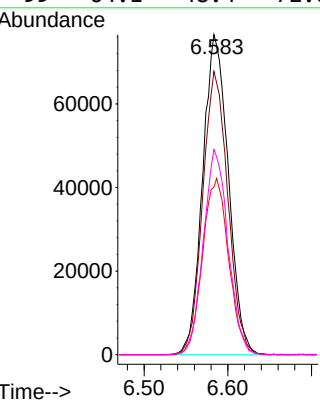
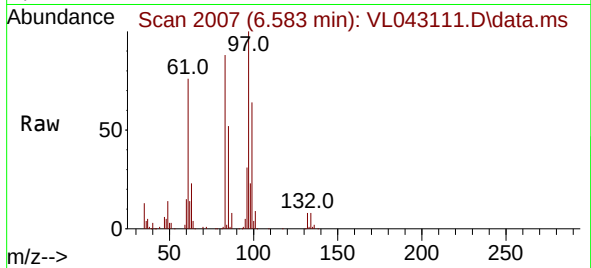
99 64.1 48.4 72.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#48

Dibromochloromethane

Concen: 14.051 ppbv

RT: 7.393 min Scan# 2257

Delta R.T. 0.003 min

Lab File: VL043111.D

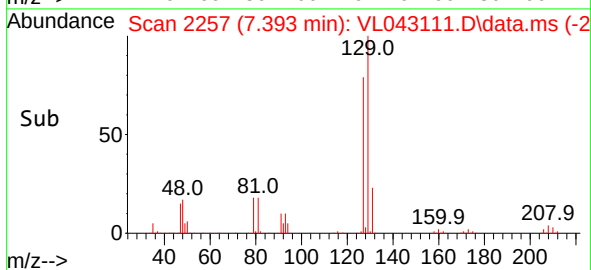
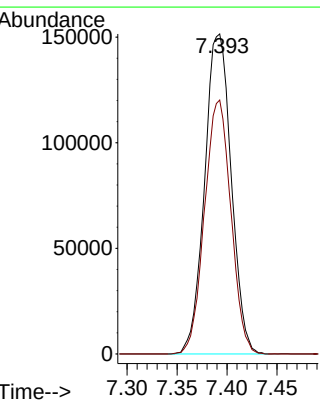
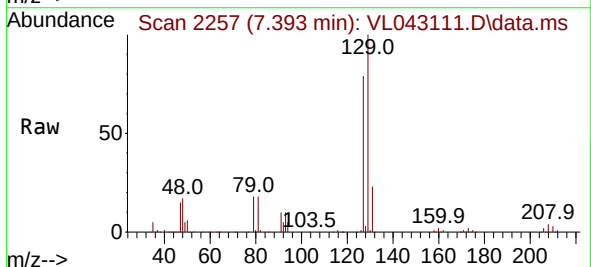
Acq: 14 Oct 2025 14:18

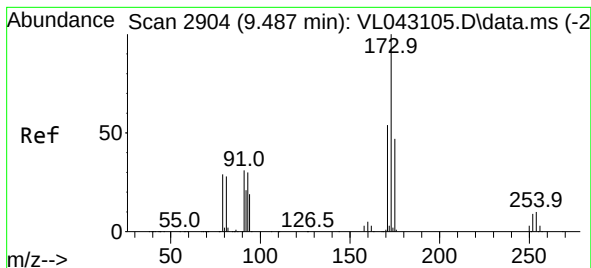
Tgt Ion:129 Resp: 280993

Ion Ratio Lower Upper

129 100

127 78.6 39.3 117.9





#49

Bromoform

Concen: 14.184 ppbv

RT: 9.487 min Scan# 2904

Delta R.T. -0.000 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion:173 Resp: 23056

Ion Ratio Lower Upper

173 100

175 48.5 38.8 58.2

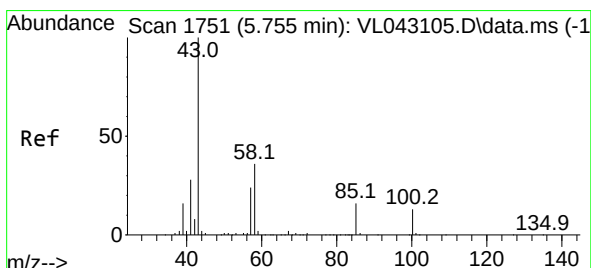
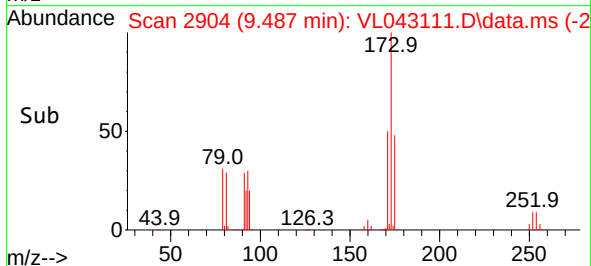
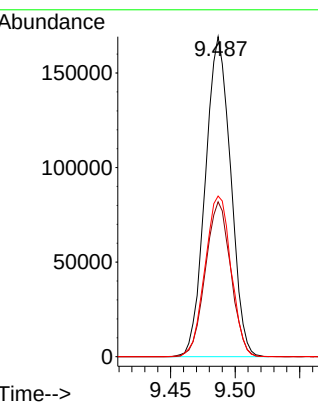
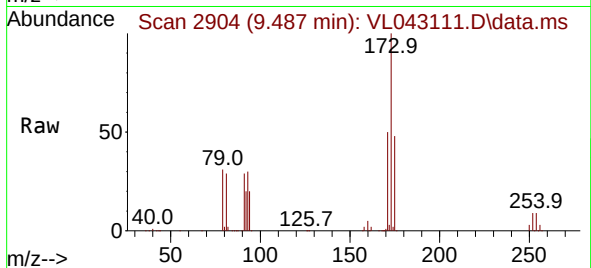
171 51.7 41.7 62.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#50

4-Methyl-2-Pentanone

Concen: 13.396 ppbv

RT: 5.748 min Scan# 1749

Delta R.T. -0.007 min

Lab File: VL043111.D

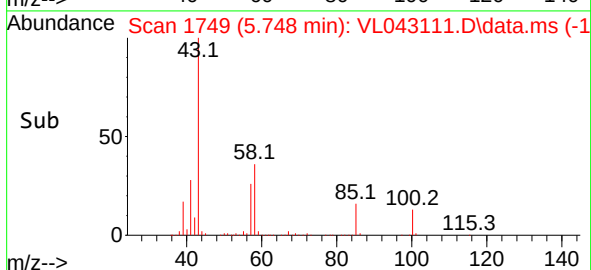
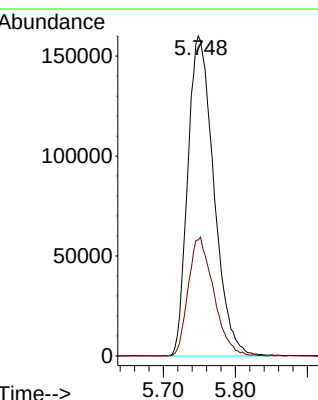
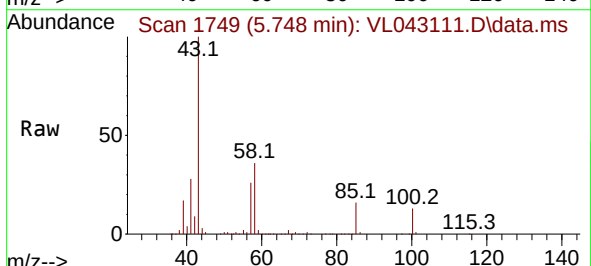
Acq: 14 Oct 2025 14:18

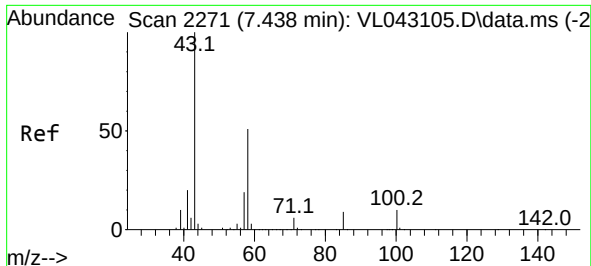
Tgt Ion: 43 Resp: 401849

Ion Ratio Lower Upper

43 100

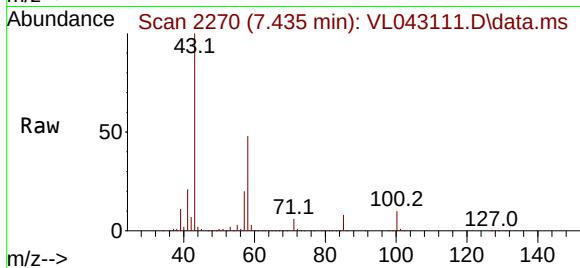
58 36.3 29.1 43.7





#51
2-Hexanone
Concen: 14.176 ppbv
RT: 7.435 min Scan# 2178
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

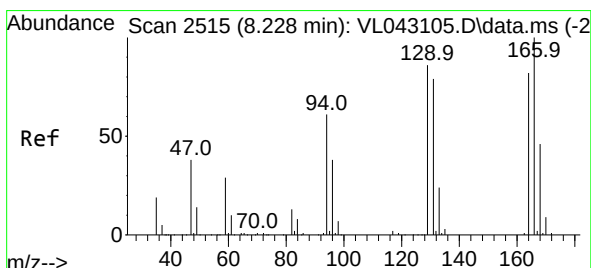
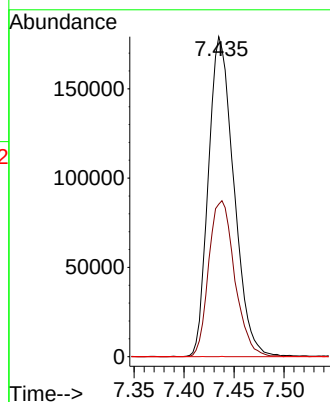
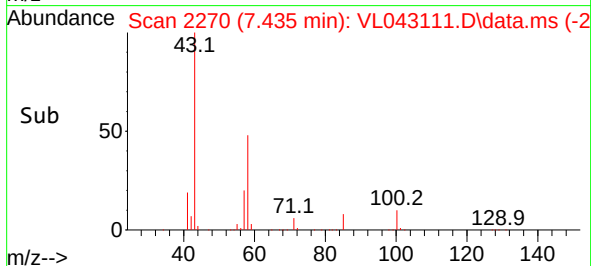
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



Tgt Ion: 43 Resp: 31728
Ion Ratio Lower Upper
43 100
58 49.8 40.4 60.6
98 0.0 0.1 0.1

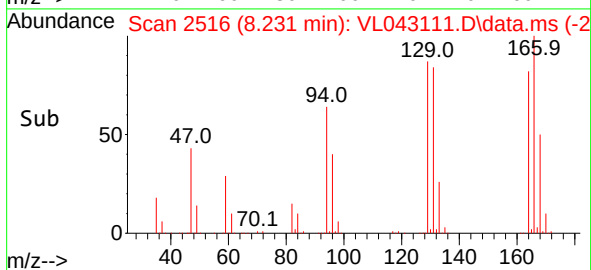
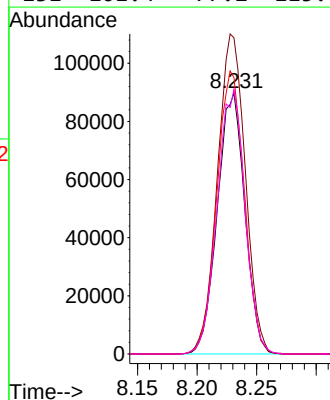
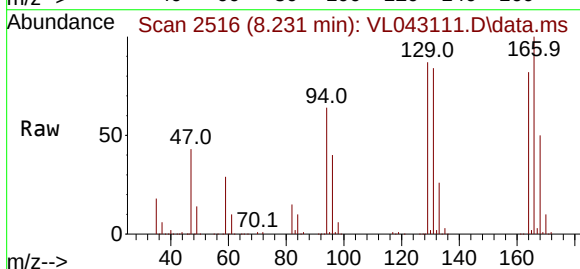
Manual Integrations
APPROVED

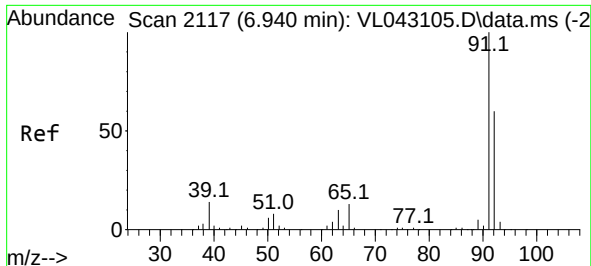
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#52
Tetrachloroethene
Concen: 13.177 ppbv
RT: 8.231 min Scan# 2516
Delta R.T. 0.003 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion:164 Resp: 143954
Ion Ratio Lower Upper
164 100
166 121.3 97.6 146.4
129 106.0 84.5 126.7
131 101.4 77.2 115.8





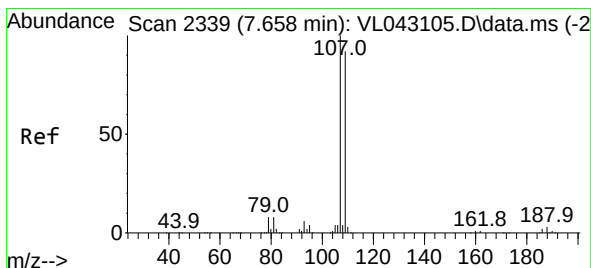
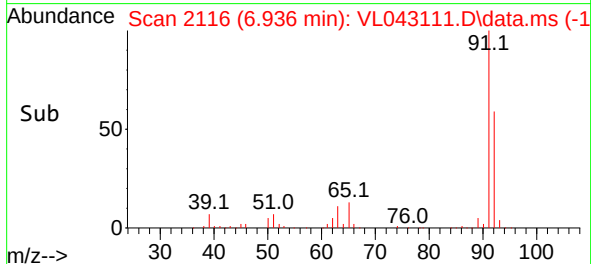
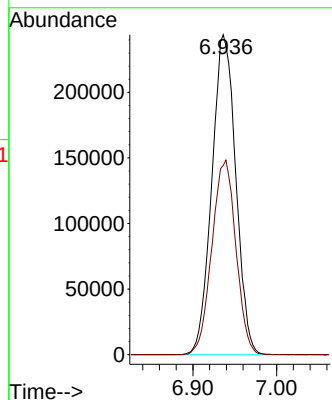
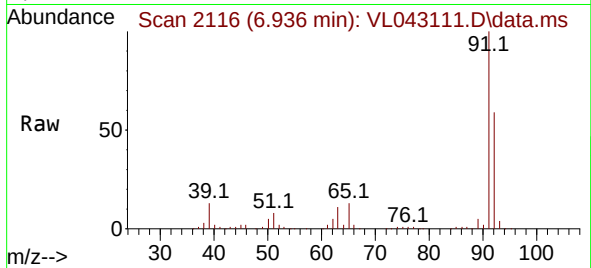
#53
Toluene
Concen: 13.457 ppbv
RT: 6.936 min Scan# 2117
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 91 Resp: 483870
Ion Ratio Lower Upper
91 100
92 61.1 48.8 73.2

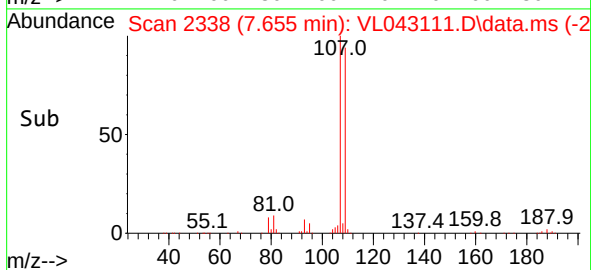
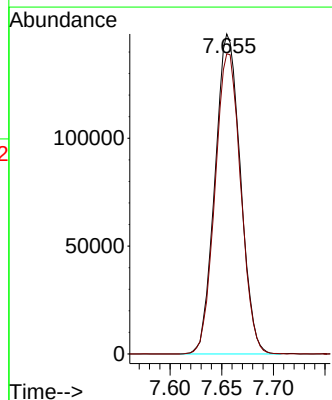
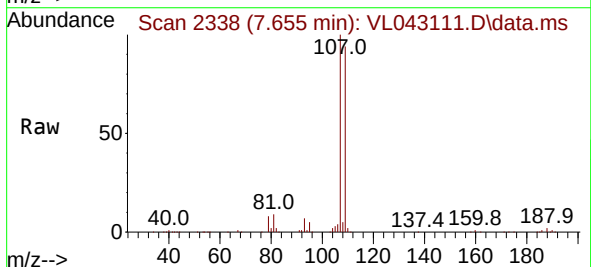
Manual Integrations
APPROVED

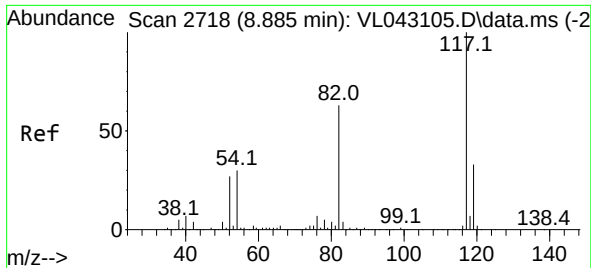
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#54
1,2-Dibromoethane
Concen: 13.461 ppbv
RT: 7.655 min Scan# 2338
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

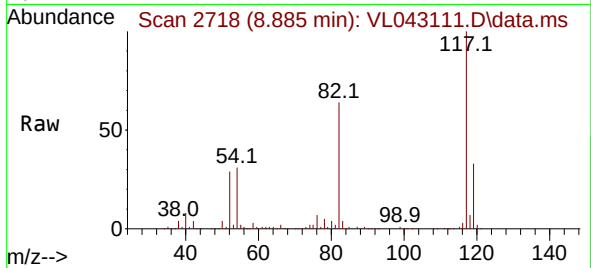
Tgt Ion:107 Resp: 254024
Ion Ratio Lower Upper
107 100
109 93.8 73.4 110.2





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

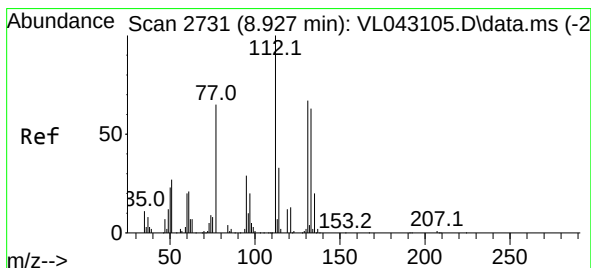
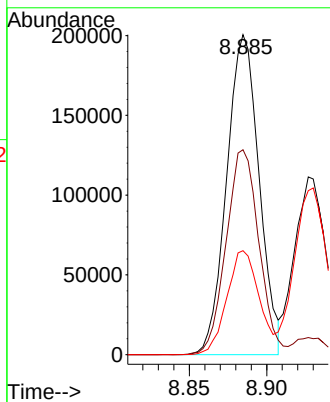
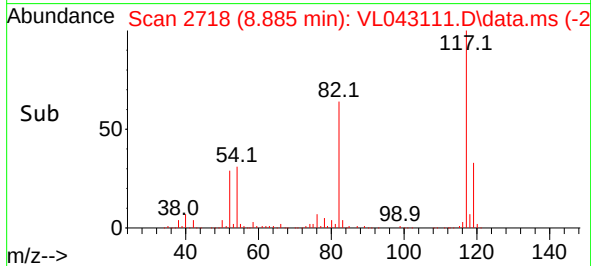
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion:117 Resp: 292542
Ion Ratio Lower Upper
117 100
82 70.2 53.8 80.8
119 33.1 25.4 38.0

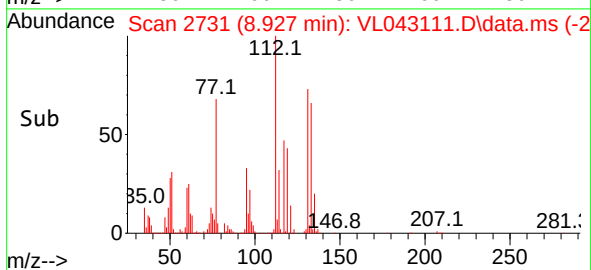
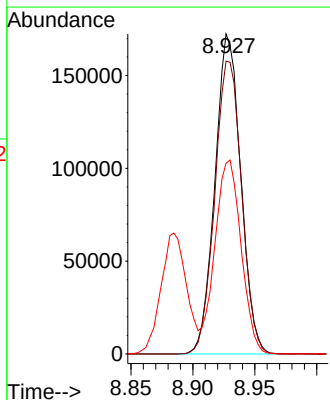
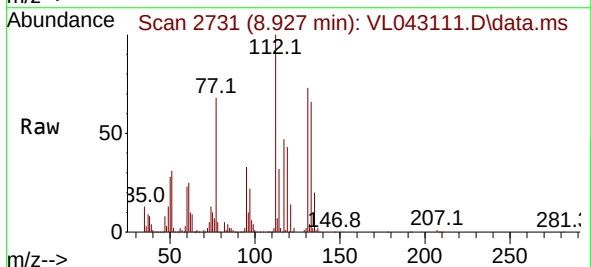
Manual Integrations
APPROVED

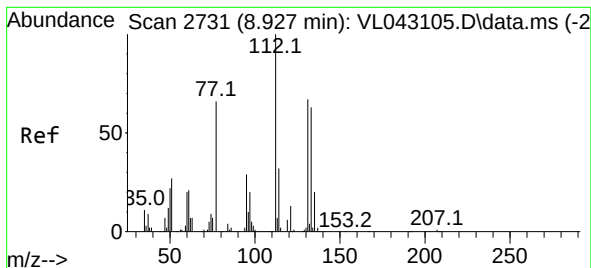
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#56
1,1,1,2-Tetrachloroethane
Concen: 13.573 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion:131 Resp: 250303
Ion Ratio Lower Upper
131 100
133 95.1 75.7 113.5
119 61.9 50.6 76.0





#57

Chlorobenzene

Concen: 12.983 ppbv

RT: 8.927 min Scan# 21

Delta R.T. -0.000 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

Instrument :

MSVOA_L

ClientSampleId :

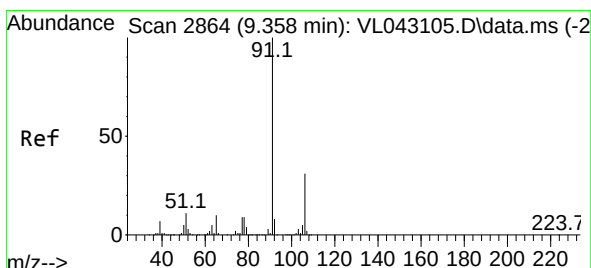
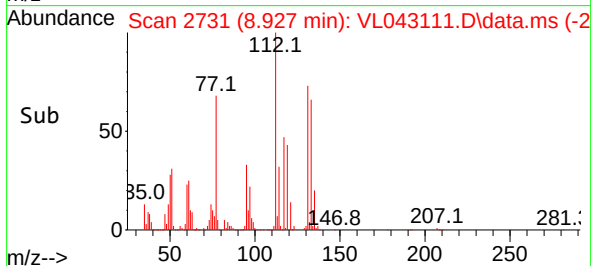
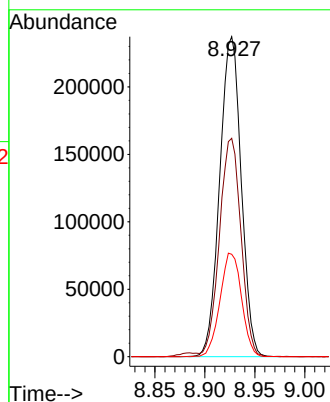
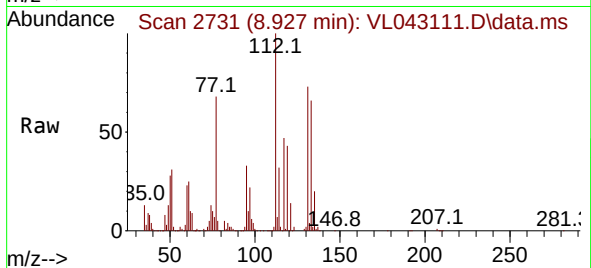
VSTDICC015

Tgt Ion:112	Resp:	35530
Ion Ratio	Lower	Upper
112	100	
77	68.2	53.3 79.9
114	32.0	29.3 35.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#58

Ethyl Benzene

Concen: 13.375 ppbv

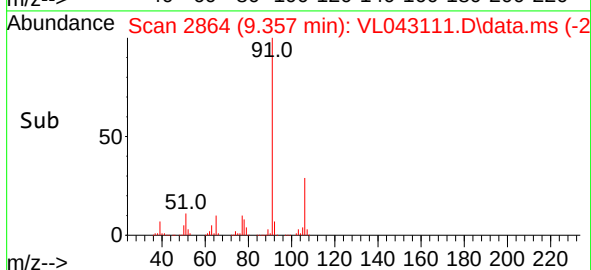
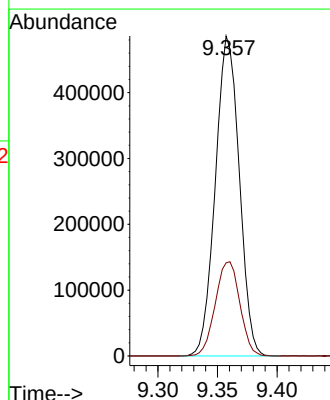
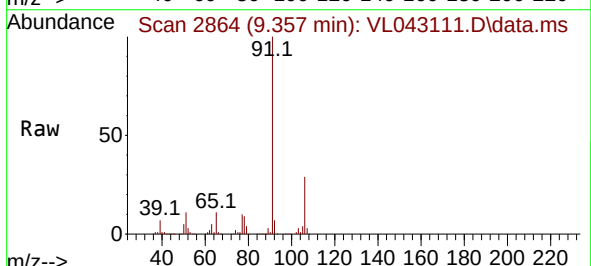
RT: 9.357 min Scan# 2864

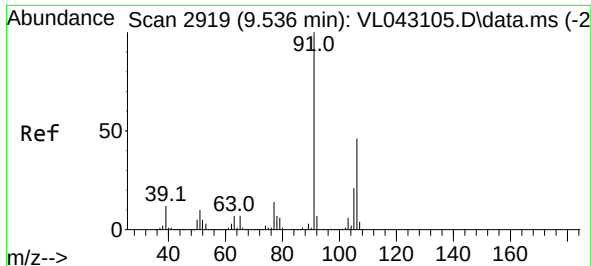
Delta R.T. -0.000 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

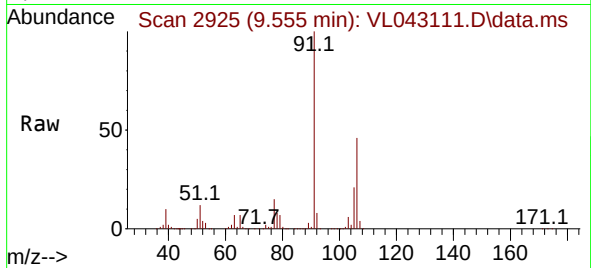
Tgt Ion: 91	Resp:	676918
Ion Ratio	Lower	Upper
91	100	
106	29.1	24.8 37.2





#59
m/p-Xylene
Concen: 26.498 ppbv m
RT: 9.555 min Scan# 2919
Delta R.T. 0.019 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

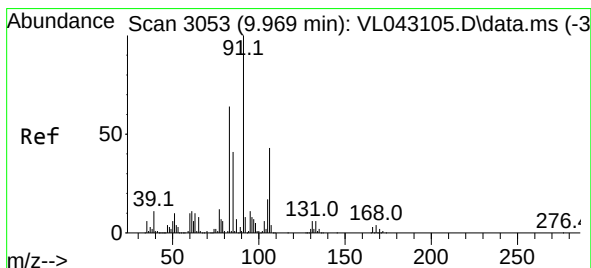
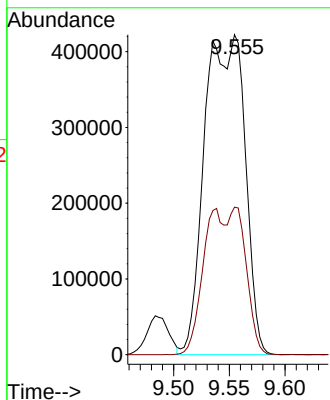
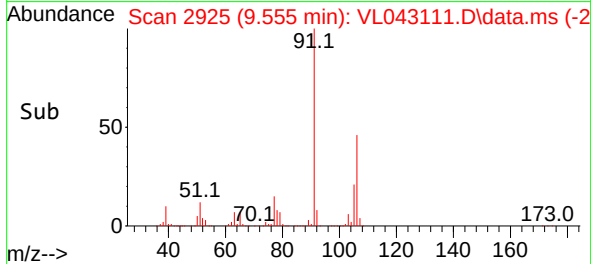
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



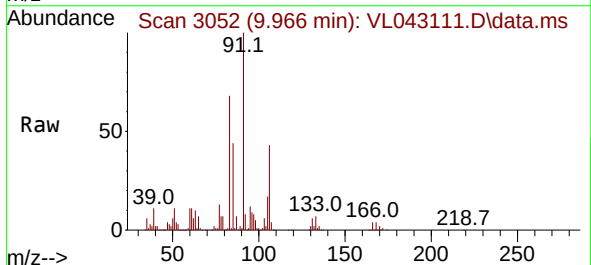
Tgt Ion: 91 Resp: 1061952
Ion Ratio Lower Upper
91 100
106 0.0 38.0 57.0

Manual Integrations
APPROVED

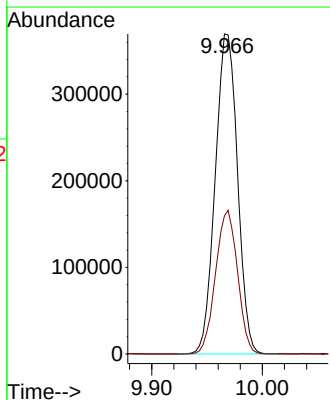
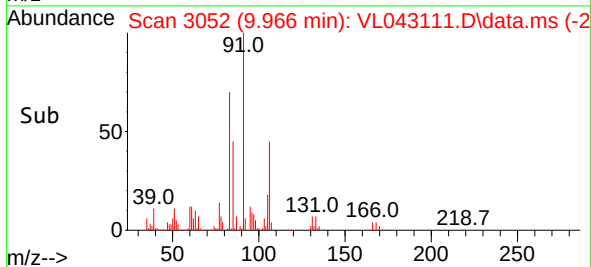
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

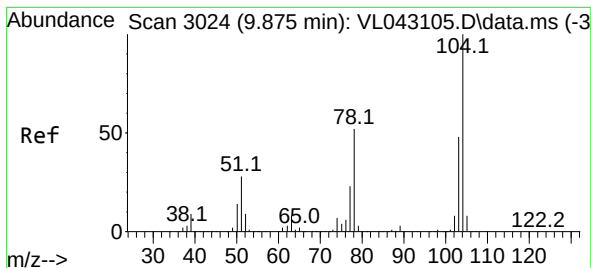


#60
o-Xylene
Concen: 13.063 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18



Tgt Ion: 91 Resp: 516660
Ion Ratio Lower Upper
91 100
106 44.3 21.9 65.8





#61

Styrene

Concen: 13.867 ppbv

RT: 9.875 min Scan# 3024

Delta R.T. -0.000 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

Instrument :

MSVOA_L

ClientSampleId :

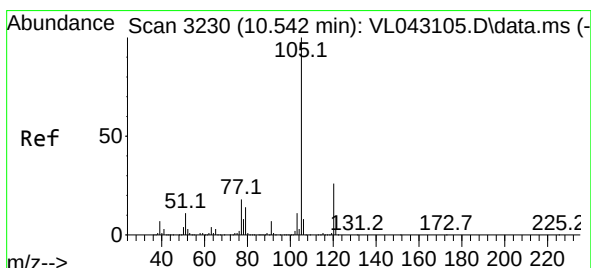
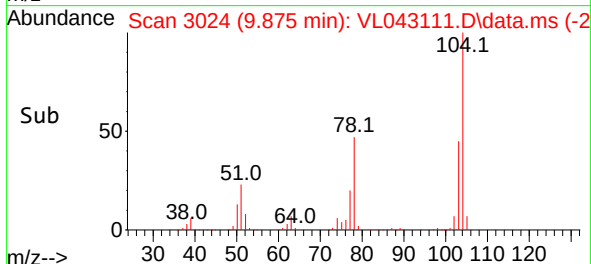
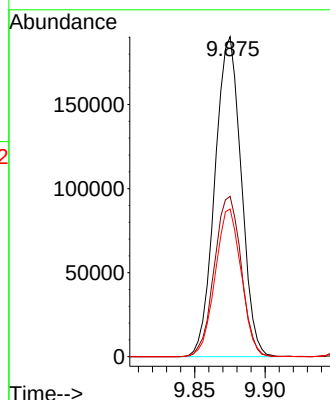
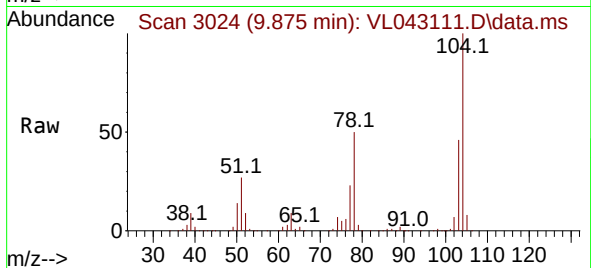
VSTDICC015

Tgt Ion:104 Resp: 247589
 Ion Ratio Lower Upper
 104 100
 78 51.2 40.2 60.2
 103 46.0 36.9 55.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025



#62

Isopropylbenzene

Concen: 13.034 ppbv

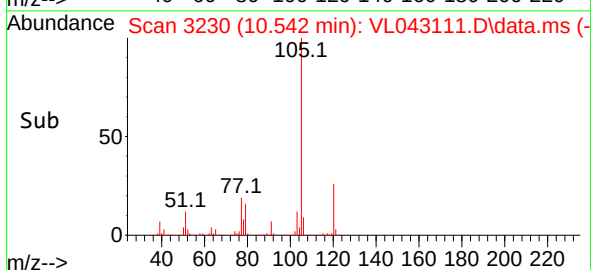
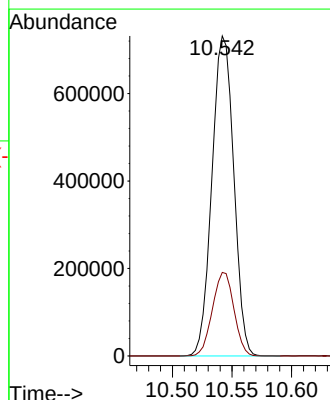
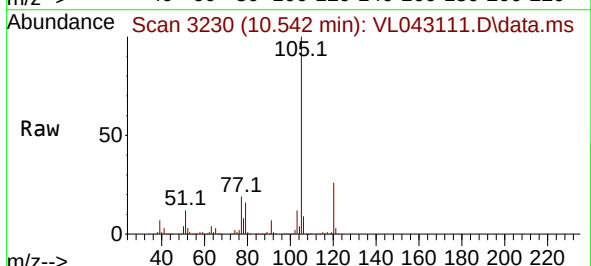
RT: 10.542 min Scan# 3230

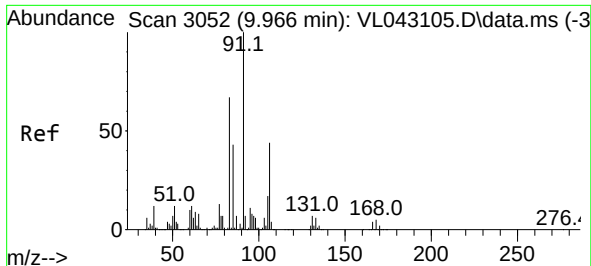
Delta R.T. -0.000 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

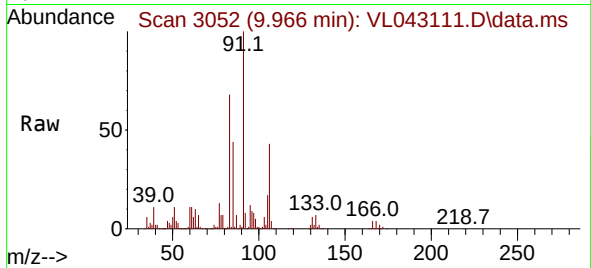
Tgt Ion:105 Resp: 931508
 Ion Ratio Lower Upper
 105 100
 120 25.7 20.2 30.4





#63
1,1,2,2-Tetrachloroethane
Concen: 12.515 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

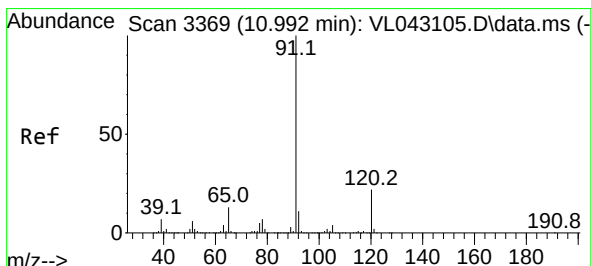
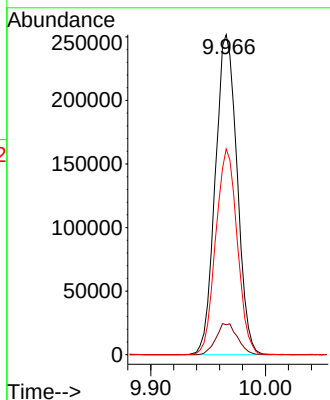
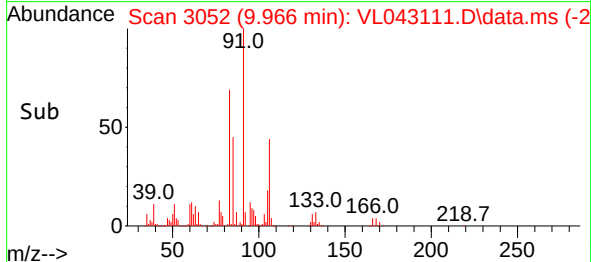
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



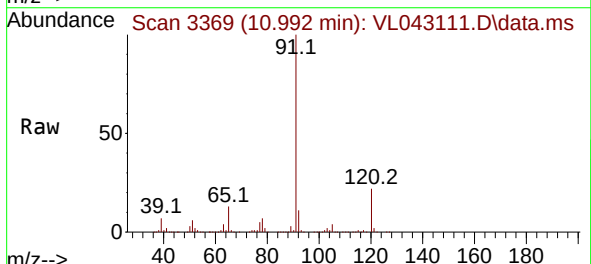
Tgt Ion: 83 Resp: 33142
Ion Ratio Lower Upper
83 100
131 9.6 4.8 14.3
85 63.6 32.0 96.0

Manual Integrations
APPROVED

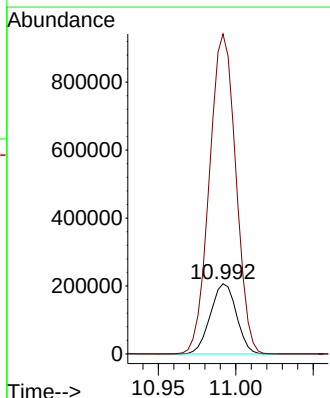
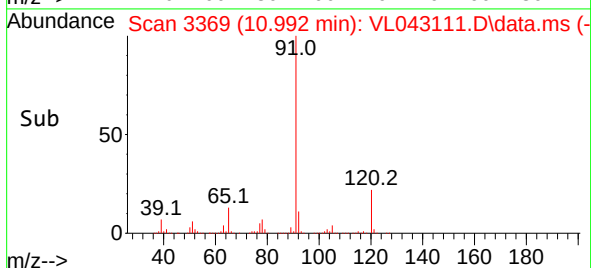
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

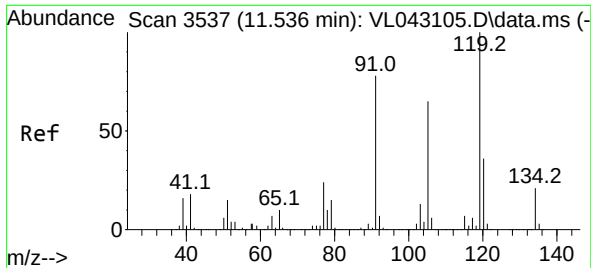


#64
n-propylbenzene
Concen: 12.775 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18



Tgt Ion:120 Resp: 241719
Ion Ratio Lower Upper
120 100
91 463.5 361.6 542.4





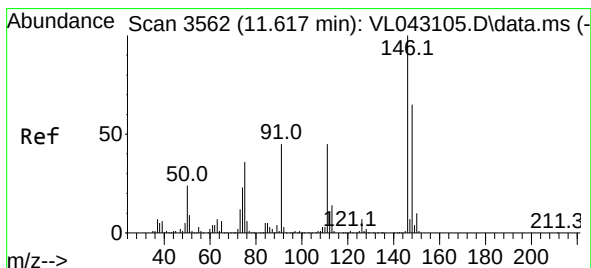
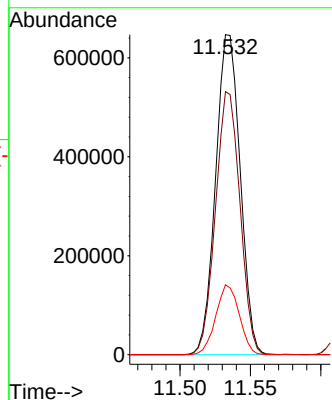
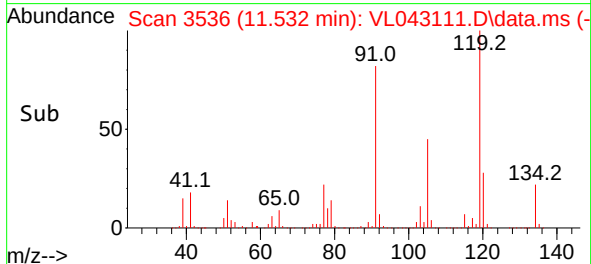
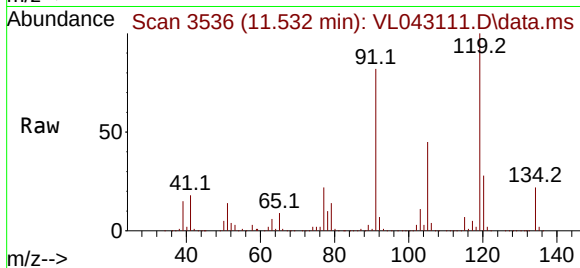
#65
tert-Butylbenzene
Concen: 12.490 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 119 Resp: 788234
Ion Ratio Lower Upper
119 100
91 81.8 63.4 95.0
134 20.8 17.3 25.9

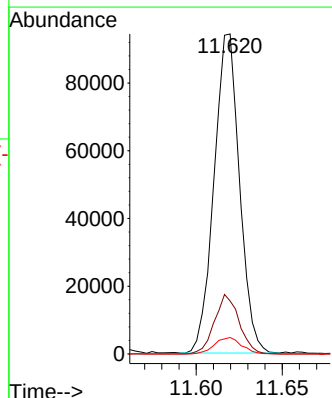
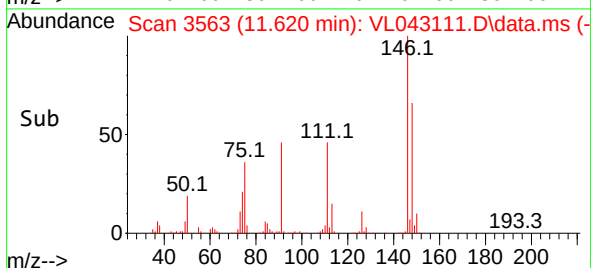
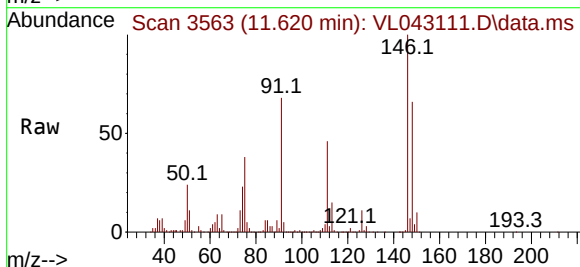
Manual Integrations
APPROVED

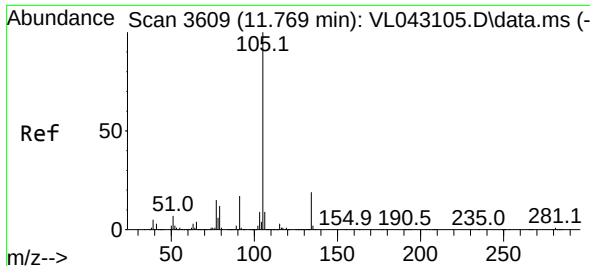
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#66
Benzyl Chloride
Concen: 13.778 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. 0.003 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

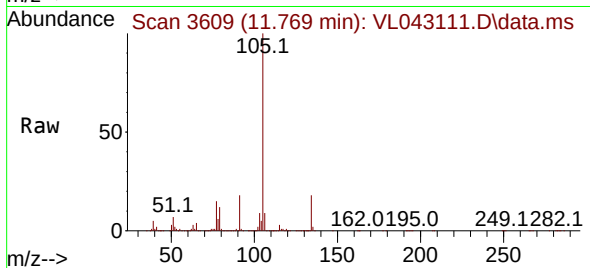
Tgt Ion: 91 Resp: 97114
Ion Ratio Lower Upper
91 100
126 18.0 14.6 22.0
128 5.4 4.6 6.8





#67
 sec-Butylbenzene
 Concen: 12.566 ppbv
 RT: 11.769 min Scan# 3609
 Delta R.T. -0.000 min
 Lab File: VL043111.D
 Acq: 14 Oct 2025 14:18

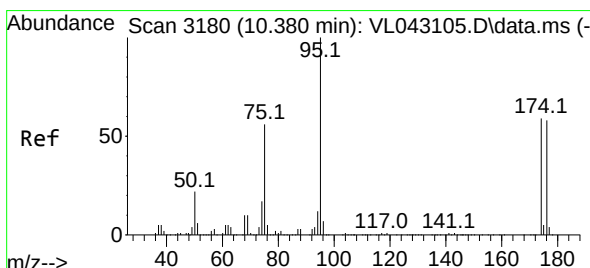
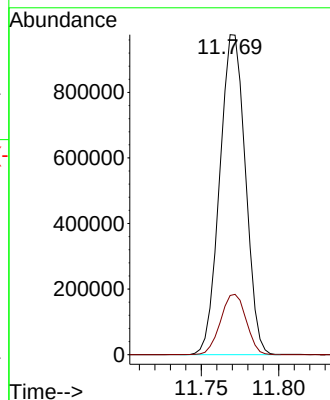
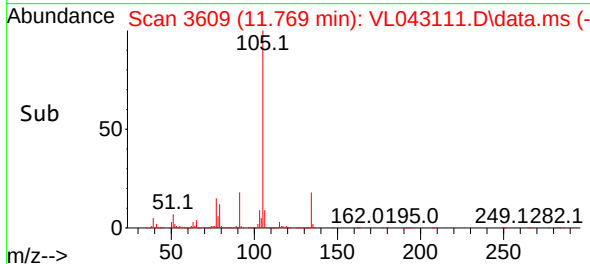
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



Tgt Ion:105 Resp: 1125489
 Ion Ratio Lower Upper
 105 100
 134 18.9 15.5 23.3

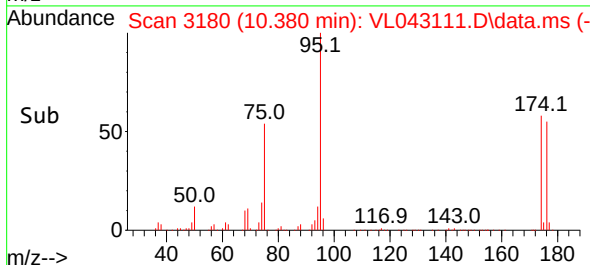
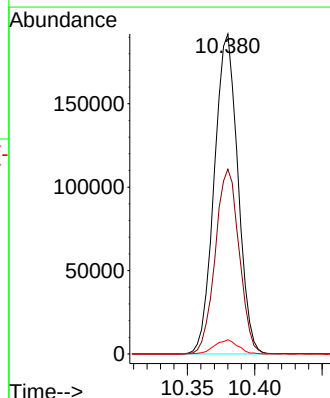
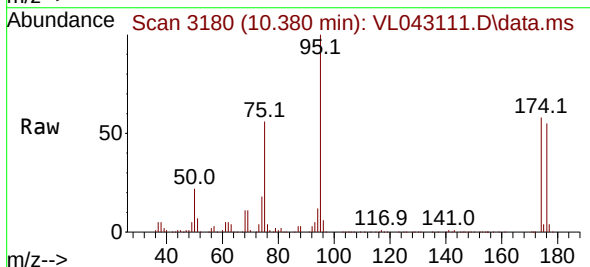
Manual Integrations
 APPROVED

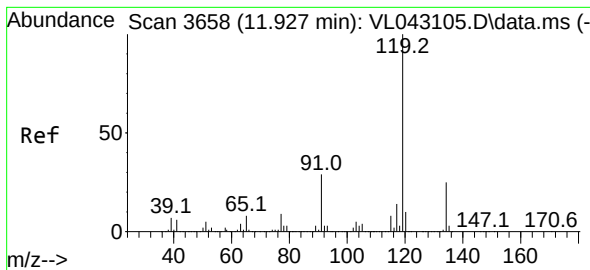
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.270 ppbv
 RT: 10.380 min Scan# 3180
 Delta R.T. -0.000 min
 Lab File: VL043111.D
 Acq: 14 Oct 2025 14:18

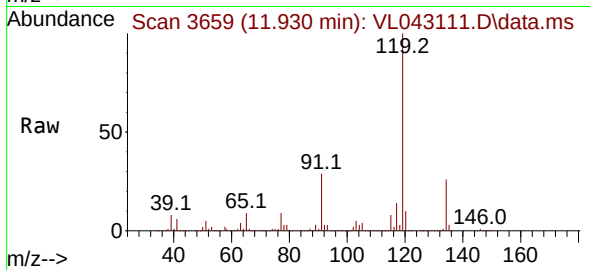
Tgt Ion: 95 Resp: 233522
 Ion Ratio Lower Upper
 95 100
 174 58.7 48.3 72.5
 175 4.4 3.8 5.8





#69
p-Isopropyltoluene
Concen: 12.602 ppbv
RT: 11.930 min Scan# 3659
Delta R.T. 0.003 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

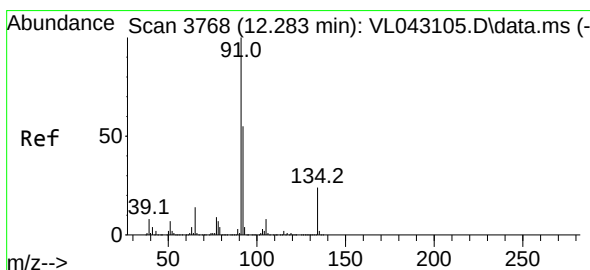
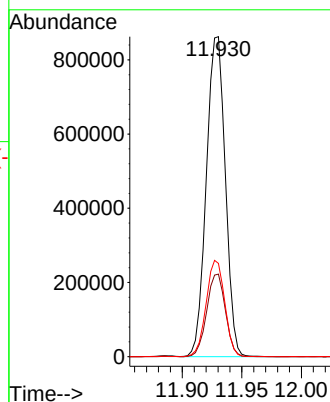
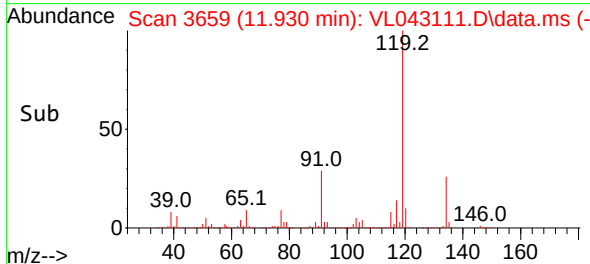
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion:119 Resp: 959200
Ion Ratio Lower Upper
119 100
134 25.5 20.3 30.5
91 29.5 22.6 33.8

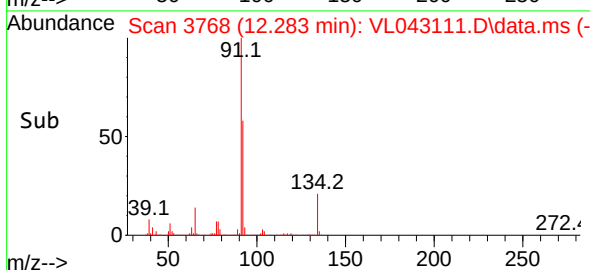
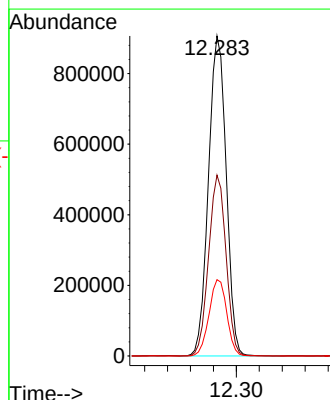
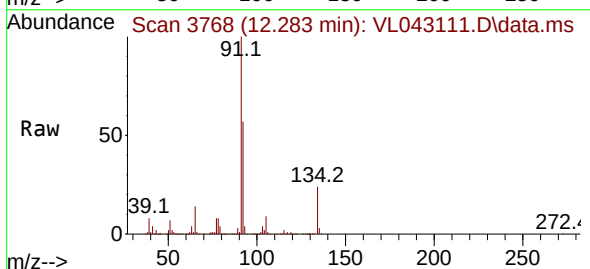
Manual Integrations
APPROVED

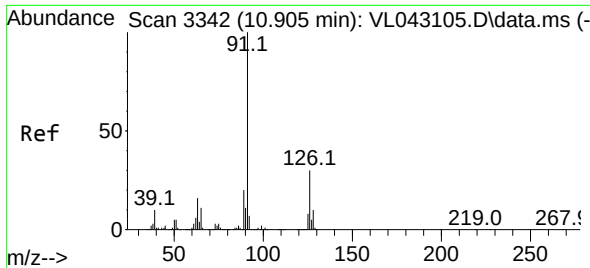
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#70
n-Butylbenzene
Concen: 12.979 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 91 Resp: 973466
Ion Ratio Lower Upper
91 100
92 55.6 44.5 66.7
134 23.8 19.3 28.9





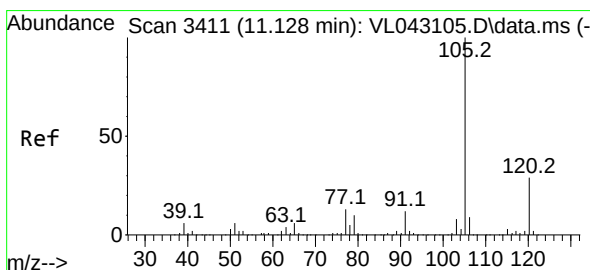
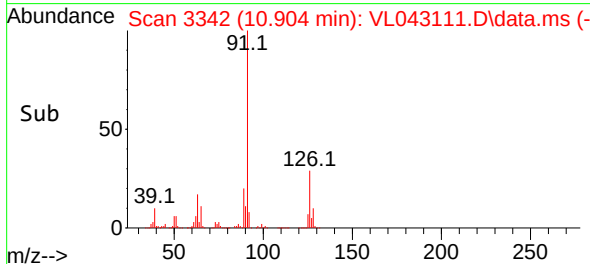
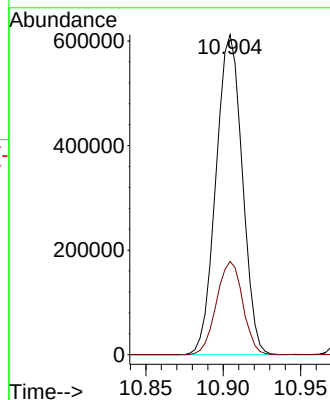
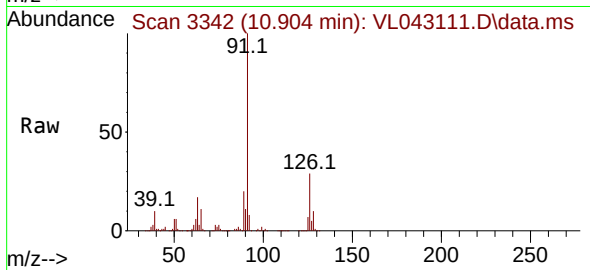
#71
2-Chlorotoluene
Concen: 13.242 ppbv
RT: 10.904 min Scan# 311
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 91 Resp: 72182
Ion Ratio Lower Upper
91 100
126 29.1 12.0 48.0

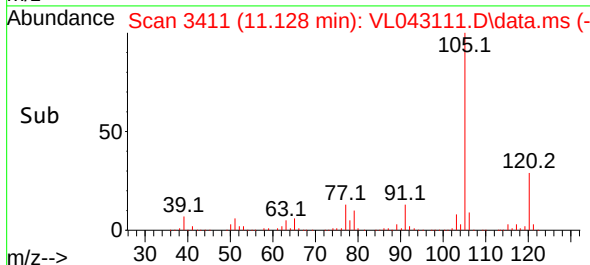
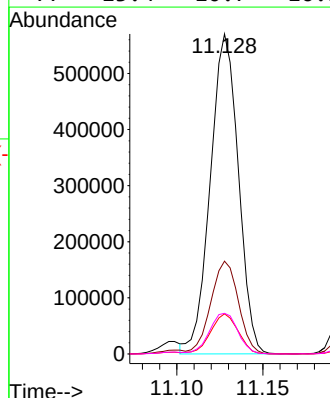
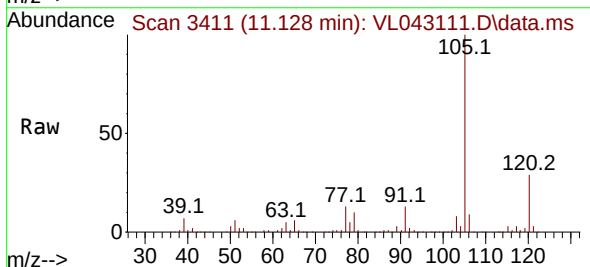
Manual Integrations
APPROVED

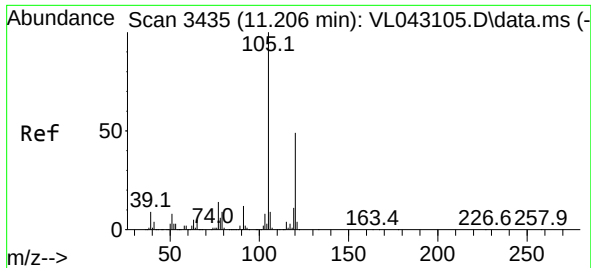
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#72
4-Ethyltoluene
Concen: 13.310 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

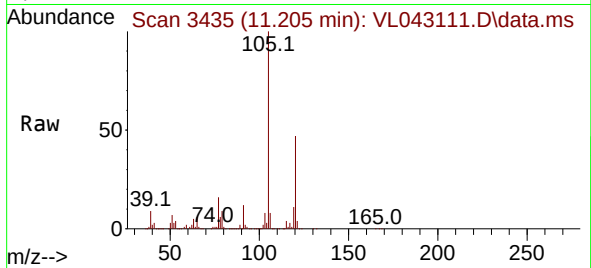
Tgt Ion:105 Resp: 647315
Ion Ratio Lower Upper
105 100
120 29.6 24.2 36.4
91 12.7 10.0 15.0
77 13.4 10.7 16.1





#73
1,3,5-Trimethylbenzene
Concen: 13.314 ppbv
RT: 11.205 min Scan# 3435
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

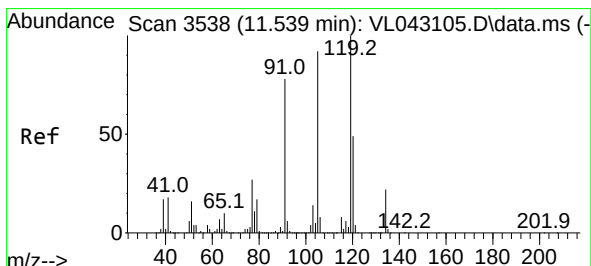
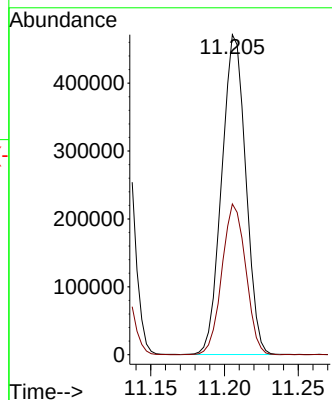
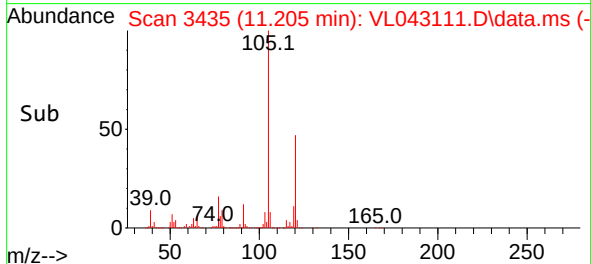
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



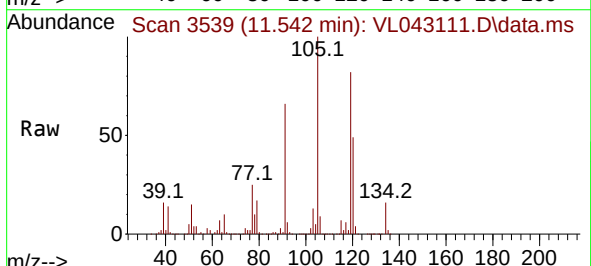
Tgt Ion:105 Resp: 534000
Ion Ratio Lower Upper
105 100
120 47.1 39.0 58.6

Manual Integrations
APPROVED

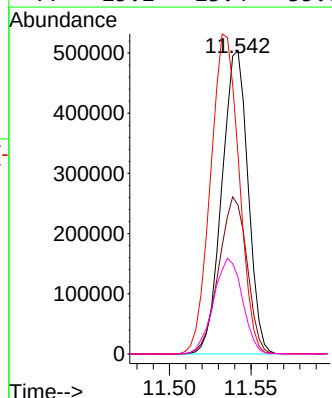
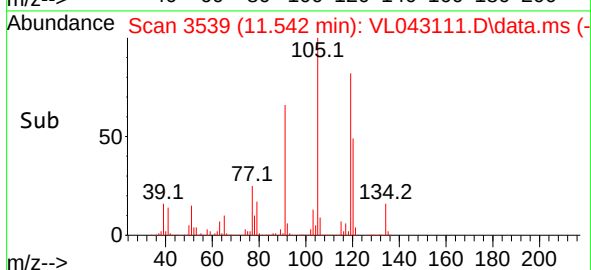
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

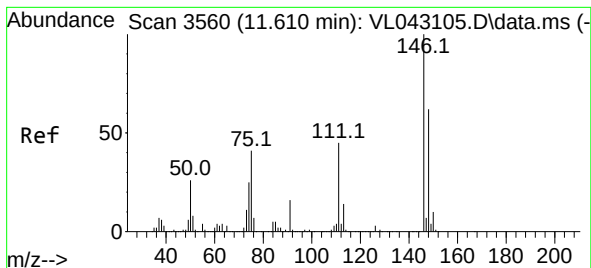


#74
1,2,4-Trimethylbenzene
Concen: 12.498 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. 0.003 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18



Tgt Ion:105 Resp: 560932
Ion Ratio Lower Upper
105 100
120 49.0 42.8 64.2
91 66.0 68.3 102.5#
77 25.2 23.4 35.0





#75

1,3-Dichlorobenzene

Concen: 13.031 ppbv

RT: 11.610 min Scan# 3560

Delta R.T. -0.000 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

Instrument :

MSVOA_L

ClientSampleId :

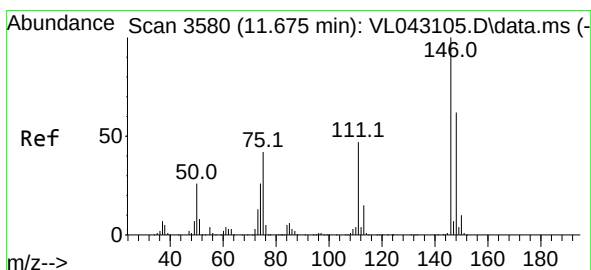
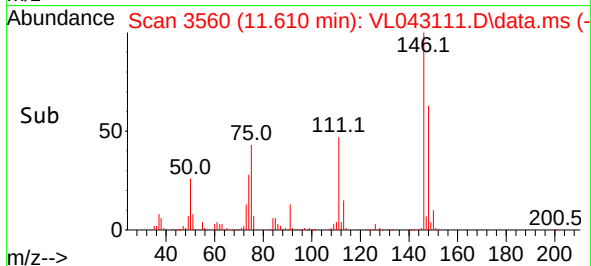
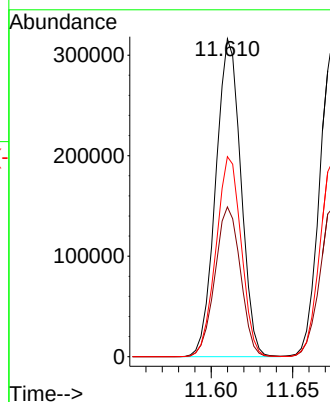
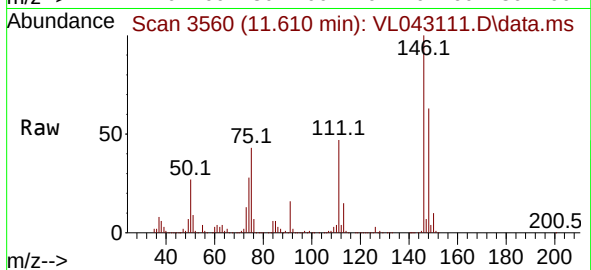
VSTDIC015

Tgt Ion:146 Resp: 33920
 Ion Ratio Lower Upper
 146 100
 111 47.7 23.3 69.9
 148 63.0 31.6 95.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025



#76

1,4-Dichlorobenzene

Concen: 13.027 ppbv

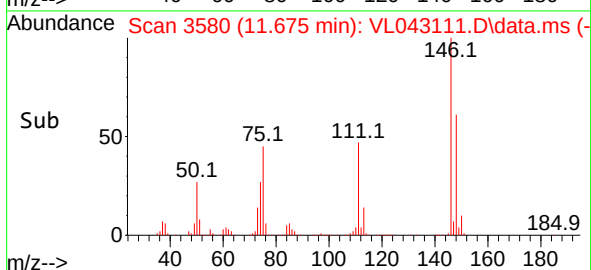
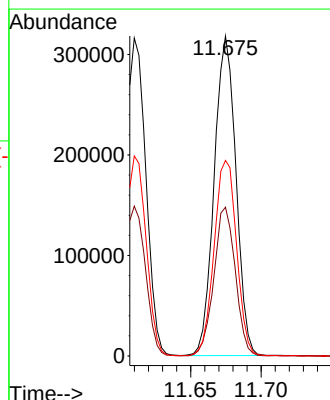
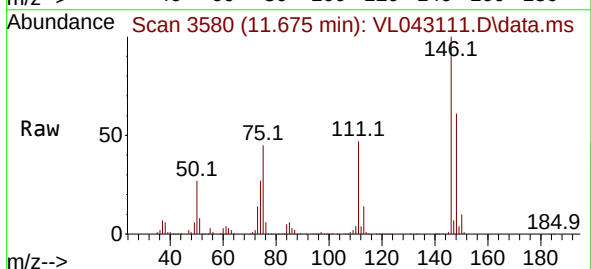
RT: 11.675 min Scan# 3580

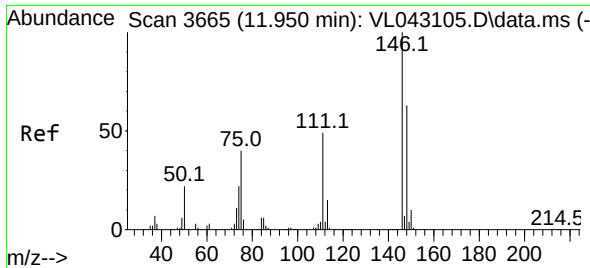
Delta R.T. -0.000 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

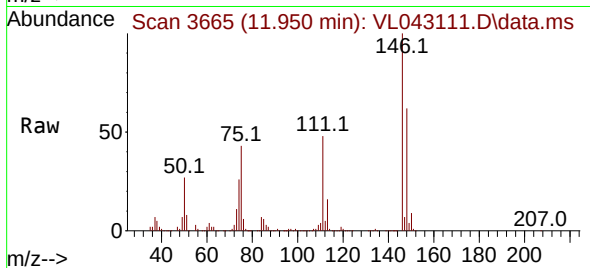
Tgt Ion:146 Resp: 341936
 Ion Ratio Lower Upper
 146 100
 111 46.1 22.4 67.0
 148 63.4 31.6 94.7





#77
1,2-Dichlorobenzene
Concen: 12.660 ppbv
RT: 11.950 min Scan# 3665
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

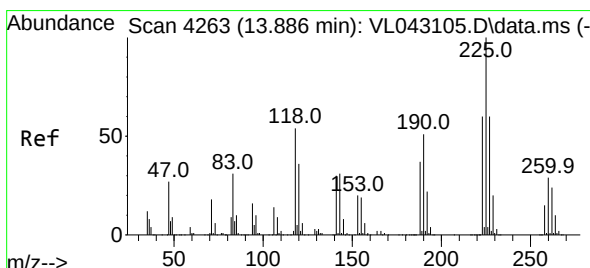
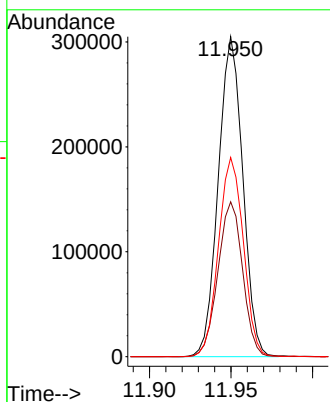
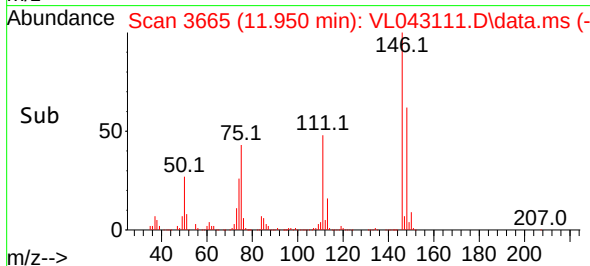
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



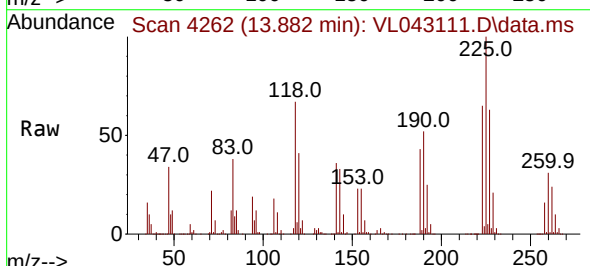
Tgt Ion:146 Resp: 318800
Ion Ratio Lower Upper
146 100
111 48.8 24.0 72.0
148 63.2 31.1 93.3

Manual Integrations
APPROVED

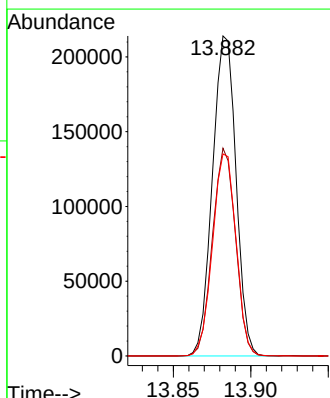
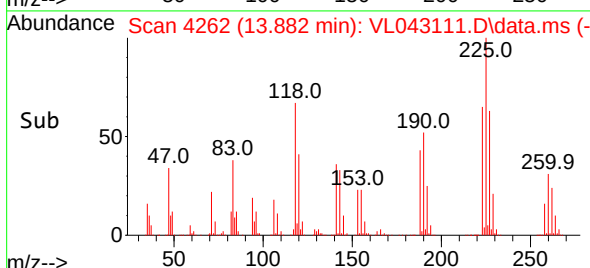
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

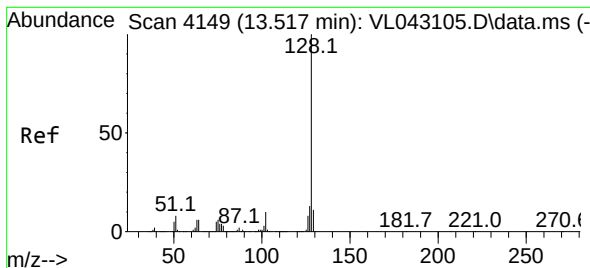


#78
Hexachloro-1,3-Butadiene
Concen: 11.606 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18



Tgt Ion:225 Resp: 226294
Ion Ratio Lower Upper
225 100
223 63.5 50.2 75.4
227 63.1 49.6 74.4





#79

Naphthalene

Concen: 14.260 ppbv

RT: 13.516 min Scan# 4149

Delta R.T. -0.000 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

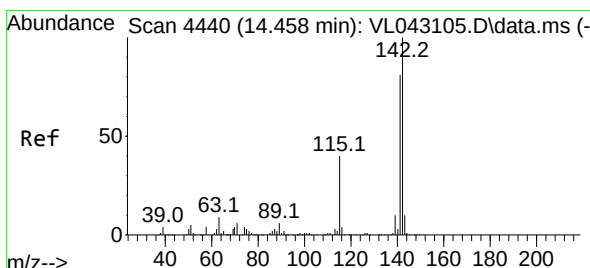
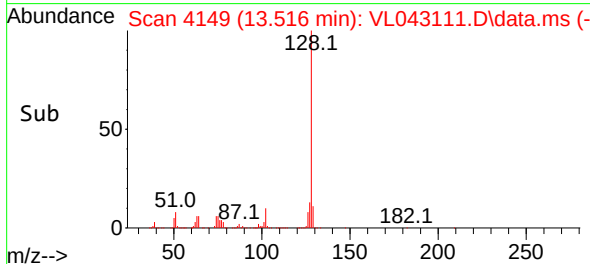
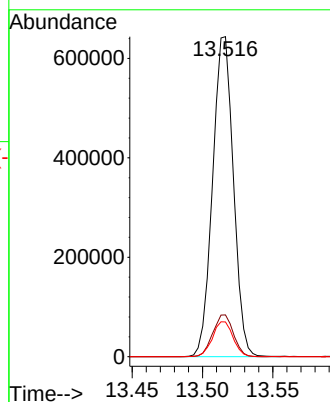
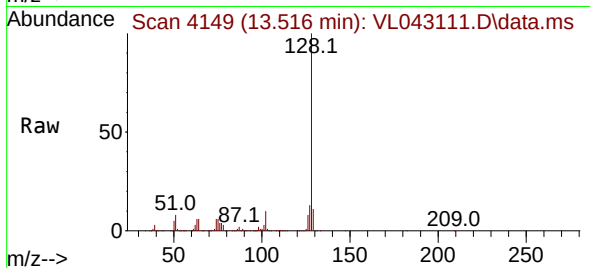
Tgt Ion:128 Resp: 661098

Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.5	15.7
129	10.8	9.1	13.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#80

Naphthalene,2-methyl-

Concen: 17.384 ppbv

RT: 14.458 min Scan# 4440

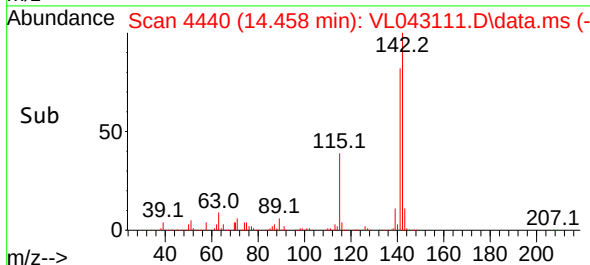
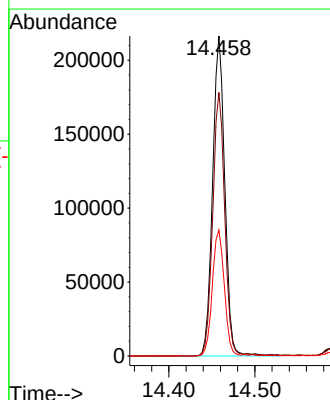
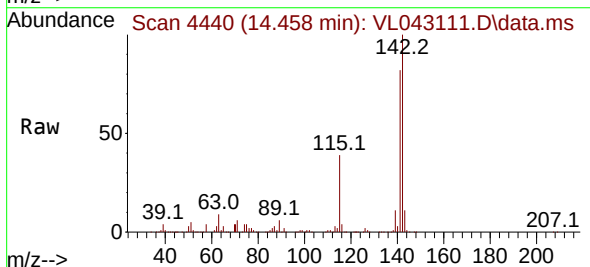
Delta R.T. -0.000 min

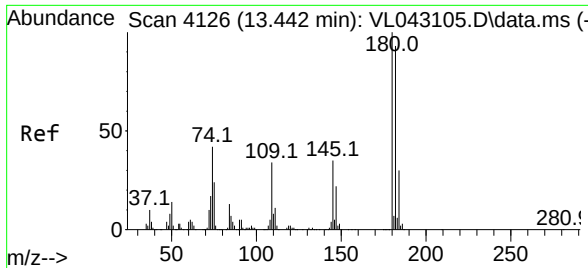
Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

Tgt Ion:142 Resp: 212784

Ion	Ratio	Lower	Upper
142	100		
141	81.9	64.6	97.0
115	39.4	30.2	45.4





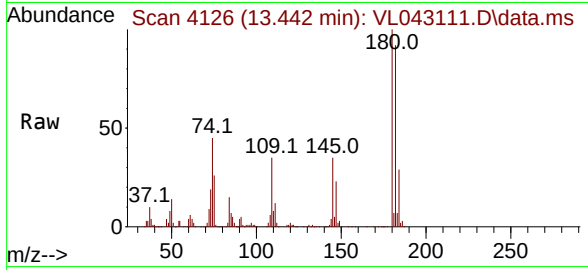
#81
 1,2,4-Trichlorobenzene
 Concen: 13.698 ppbv
 RT: 13.442 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL043111.D
 Acq: 14 Oct 2025 14:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

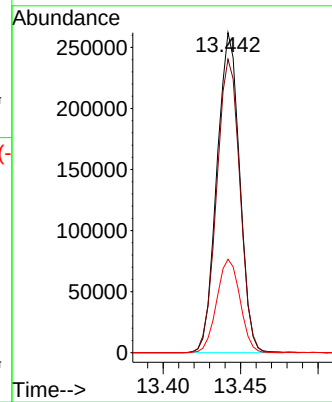
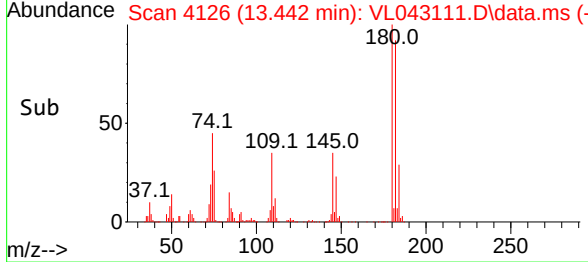


Tgt Ion:	180	Resp:	266712
Ion Ratio	Lower	Upper	
180	100		
182	94.2	75.5	113.3
184	30.0	23.9	35.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
 Data File : VL043112.D
 Acq On : 14 Oct 2025 14:51
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL101425

Quant Time: Oct 15 02:14:28 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

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

QLast Update : Wed Oct 15 02:12:58 2025

Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 10/16/2025
 Supervised By : Mahesh Dadoda 10/16/2025

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

Internal Standards						
1) Bromochloromethane	2.793	49	97563	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	325610	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	291676	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 229010 10.101 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.000%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	130726	9.425	ppbv	98
3) Chlorodifluoromethane	1.479	51	138956	9.260	ppbv	99
4) Chloromethane	1.538	50	48722	8.867	ppbv	96
5) Vinyl Chloride	1.583	62	47005	8.722	ppbv	97
6) Bromomethane	1.670	94	26304	8.901	ppbv	98
7) Chloroethane	1.709	64	19138	8.685	ppbv	100
8) Dichlorotetrafluoroethane	1.557	85	107147	9.558	ppbv	99
9) Propene	1.486	41	59287	8.908	ppbv	98
10) Heptane	4.991	43	165341	8.629	ppbv	99
11) Trichlorofluoromethane	1.881	101	132447	9.762	ppbv	94
12) 1,1,2-Trichlorotrifluo...	2.143	101	102449	9.380	ppbv	98
13) Ethanol	1.725	45	17659m	7.173	ppbv	
14) Bromoethene	1.787	108	37835	9.324	ppbv	100
15) Acetone	1.839	43	108010	8.214	ppbv	99
16) 1,3-Butadiene	1.612	39	55493	8.855	ppbv	98
17) tert-Butyl alcohol	2.043	59	162672	9.012	ppbv	97
18) 1,1-Dichloroethene	2.039	96	46544	9.774	ppbv	93
19) Isopropyl Alcohol	1.887	45	67552	8.248	ppbv	97
20) Methylene Chloride	2.065	84	40319	7.757	ppbv	89
21) Allyl Chloride	2.101	41	88965	9.181	ppbv	96
22) trans-1,2-Dichloroethene	2.347	96	51295	9.011	ppbv	93
23) Vinyl Acetate	2.467	43	185329	9.621	ppbv	98
24) 1,1-Dichloroethane	2.415	63	102877	9.355	ppbv	98
25) Ethyl Acetate	2.839	43	292399	8.966	ppbv	100
26) Hexane	2.832	57	135463	9.015	ppbv	97
27) Carbon Disulfide	2.156	76	131064	9.520	ppbv	100
28) Methyl tert-Butyl Ether	2.444	73	67260	9.839	ppbv	97
29) Chloroform	2.852	83	204925	9.412	ppbv	95
30) Cyclohexane	3.865	84	119287	9.096	ppbv	96
31) cis-1,2-Dichloroethene	2.725	61	137462	9.580	ppbv	98
32) 1,1,1-Trichloroethane	3.373	97	219167	9.666	ppbv	98
34) 2-Butanone	2.560	43	188755	8.624	ppbv	99
35) Carbon Tetrachloride	3.771	117	217678	9.298	ppbv	96
36) Benzene	3.664	78	278365	9.077	ppbv	97
37) 1,2-Dichloroethane	3.224	62	161750	9.156	ppbv	98
38) Trichloroethene	4.557	130	108261	8.453	ppbv	96
39) 1,2-Dichloropropane	4.321	63	100580	8.971	ppbv	96
40) 1,4-Dioxane	4.587	88	41464	8.265	ppbv #	95
41) Tetrahydrofuran	3.056	42	104701	8.553	ppbv	99
42) Bromodichloromethane	4.496	83	228288	9.336	ppbv	96
43) Methyl Methacrylate	4.884	69	138593	8.898	ppbv	99
44) 2,2,4-Trimethylpentane	4.648	57	452117	8.738	ppbv	99
45) t-1,3-Dichloropropene	6.422	75	142964	9.146	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
 Data File : VL043112.D
 Acq On : 14 Oct 2025 14:51
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL101425

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025

Quant Time: Oct 15 02:14:28 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

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

QLast Update : Wed Oct 15 02:12:58 2025

Response via : Initial Calibration

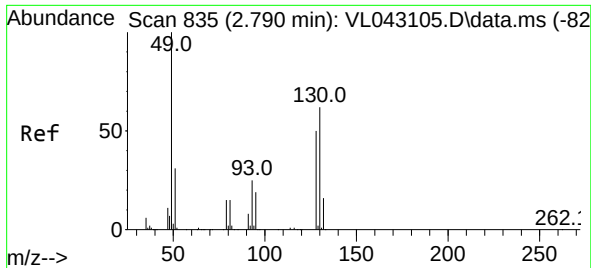
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	170038	9.106	ppbv	95
47) 1,1,2-Trichloroethane	6.590	97	108965	9.000	ppbv	96
48) Dibromochloromethane	7.396	129	184757	9.127	ppbv	100
49) Bromoform	9.490	173	147759	8.980	ppbv	100
50) 4-Methyl-2-Pentanone	5.752	43	263070	8.709	ppbv	100
51) 2-Hexanone	7.441	43	203876	8.999	ppbv #	99
52) Tetrachloroethene	8.231	164	96000	8.681	ppbv	97
53) Toluene	6.943	91	324944	8.928	ppbv	100
54) 1,2-Dibromoethane	7.661	107	167936	8.856	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.933	131	166059	9.031	ppbv	98
57) Chlorobenzene	8.930	112	239309	8.770	ppbv	99
58) Ethyl Benzene	9.361	91	450029	8.990	ppbv	99
59) m/p-Xylene	9.558	91	715191m	17.913	ppbv	
60) o-Xylene	9.969	91	348346	8.834	ppbv	100
61) Styrene	9.878	104	161979	9.099	ppbv	98
62) Isopropylbenzene	10.545	105	621758	8.726	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.966	83	215911	8.177	ppbv	100
64) n-propylbenzene	10.995	120	160411	8.503	ppbv	94
65) tert-Butylbenzene	11.536	119	532570	8.464	ppbv	98
66) Benzyl Chloride	11.620	91	58169	8.306	ppbv	98
67) sec-Butylbenzene	11.772	105	762711	8.541	ppbv	98
69) p-Isopropyltoluene	11.930	119	638261	8.411	ppbv	99
70) n-Butylbenzene	12.286	91	641547	8.579	ppbv	99
71) 2-Chlorotoluene	10.904	91	479799	8.828	ppbv	99
72) 4-Ethyltoluene	11.128	105	427034	8.807	ppbv	99
73) 1,3,5-Trimethylbenzene	11.209	105	354875	8.874	ppbv	95
74) 1,2,4-Trimethylbenzene	11.542	105	372506	8.324	ppbv	92
75) 1,3-Dichlorobenzene	11.610	146	219423	8.454	ppbv	99
76) 1,4-Dichlorobenzene	11.675	146	221364	8.458	ppbv	99
77) 1,2-Dichlorobenzene	11.953	146	204178	8.132	ppbv	98
78) Hexachloro-1,3-Butadiene	13.885	225	144646	7.440	ppbv	99
79) Naphthalene	13.516	128	389814	8.334	ppbv	99
80) Naphthalene,2-methyl-	14.458	142	123632	10.146	ppbv	97
81) 1,2,4-Trichlorobenzene	13.445	180	162553	8.373	ppbv	98

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

Manual Integrations

Quant Time: Oct 15 02:14:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration





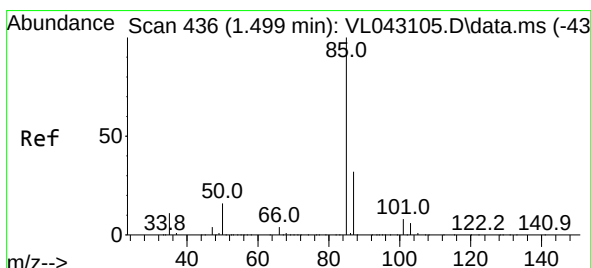
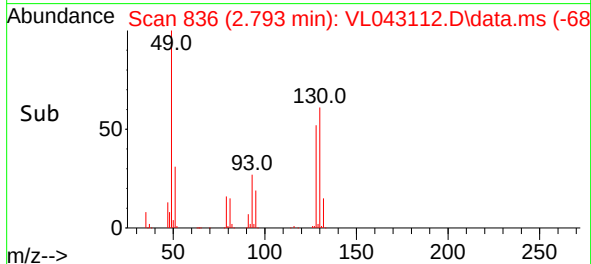
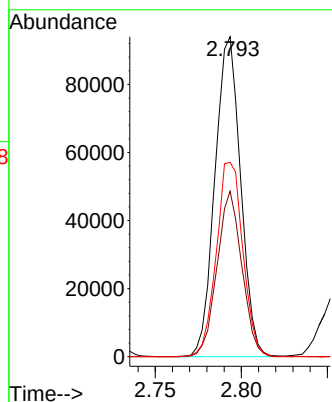
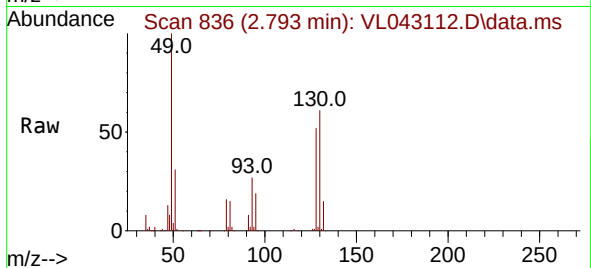
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 835
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Tgt Ion: 49 Resp: 9756
Ion Ratio Lower Upper
49 100
128 50.0 24.4 73.4
130 62.8 31.0 93.0

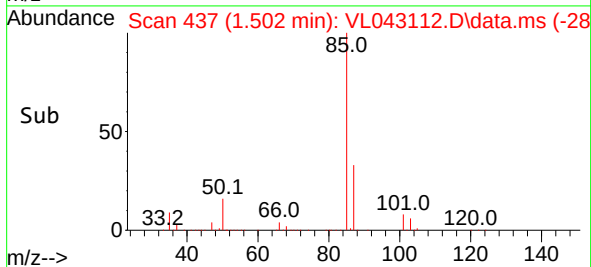
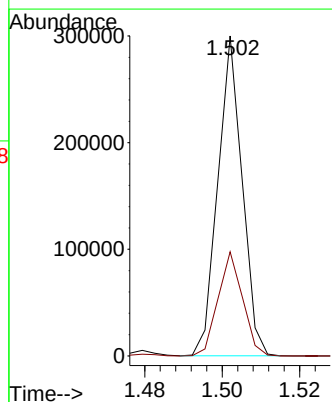
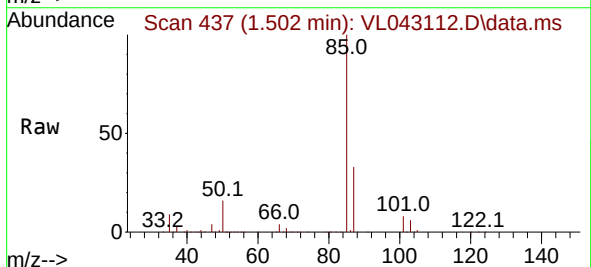
Manual Integrations
APPROVED

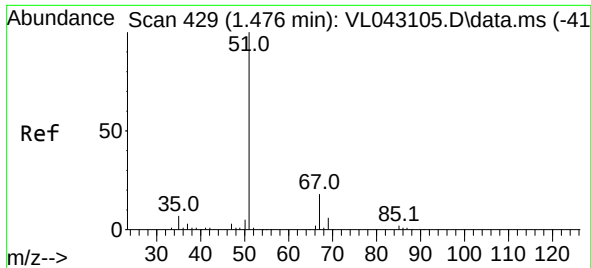
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#2
Dichlorodifluoromethane
Concen: 9.425 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 85 Resp: 130726
Ion Ratio Lower Upper
85 100
87 32.6 25.3 37.9





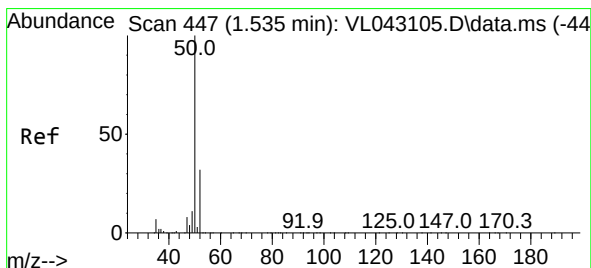
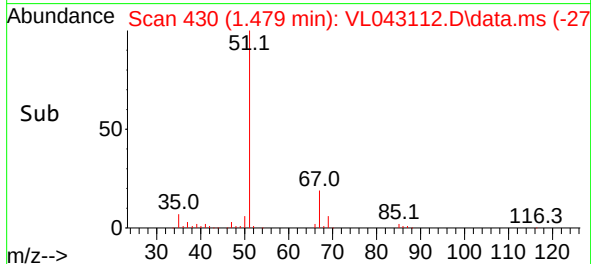
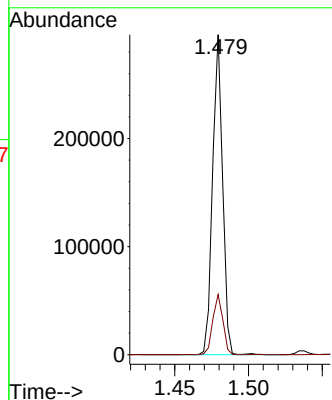
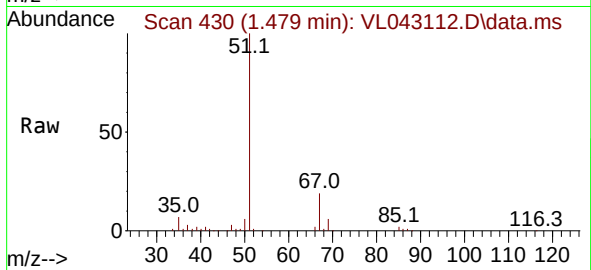
#3
Chlorodifluoromethane
Concen: 9.260 ppbv
RT: 1.479 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Tgt Ion: 51 Resp: 138950
Ion Ratio Lower Upper
51 100
67 19.1 15.1 22.7

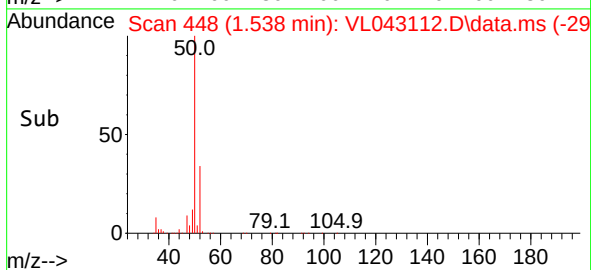
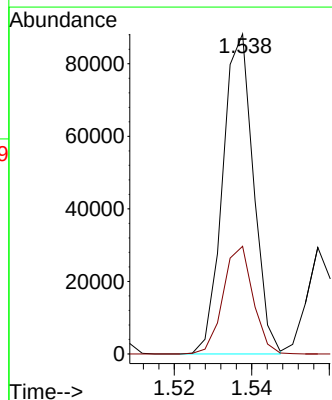
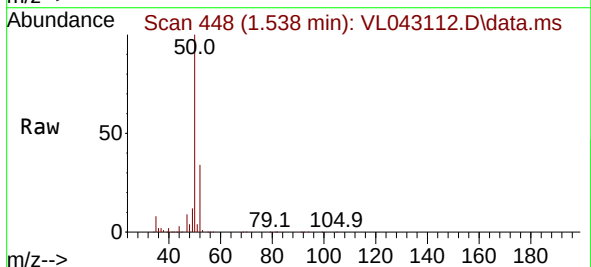
Manual Integrations
APPROVED

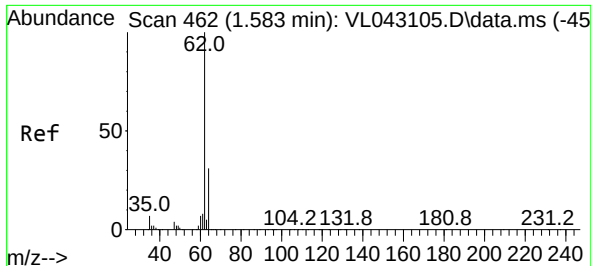
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#4
Chloromethane
Concen: 8.867 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

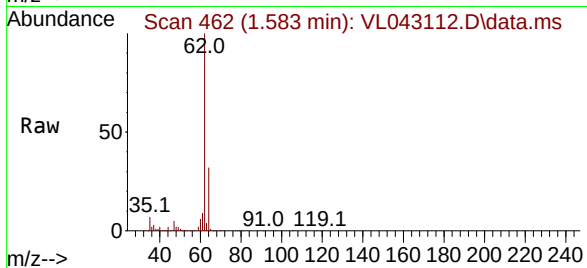
Tgt Ion: 50 Resp: 48722
Ion Ratio Lower Upper
50 100
52 33.4 25.2 37.8





#5
 Vinyl Chloride
 Concen: 8.722 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. -0.000 min
 Lab File: VL043112.D
 Acq: 14 Oct 2025 14:51

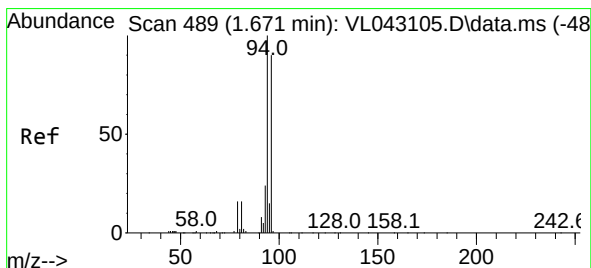
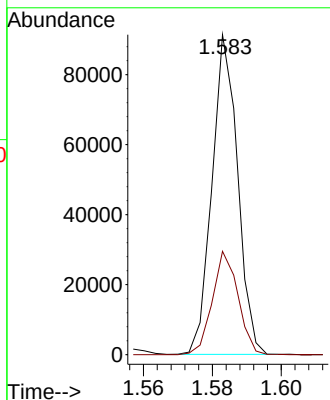
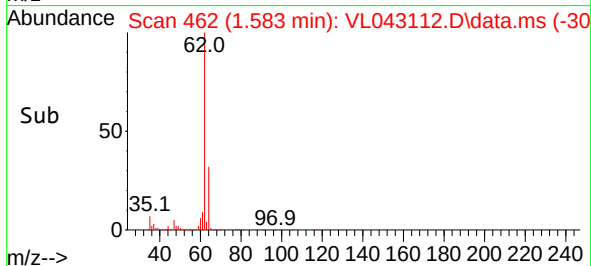
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL101425



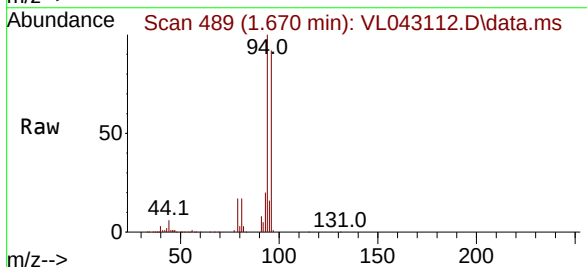
Tgt Ion: 62 Resp: 47000
 Ion Ratio Lower Upper
 62 100
 64 32.3 24.6 36.8

Manual Integrations
 APPROVED

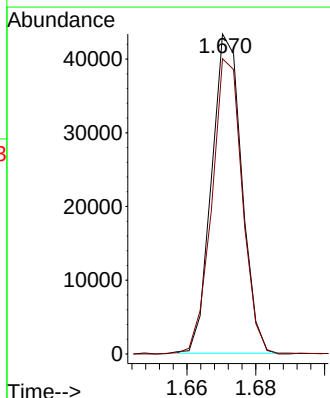
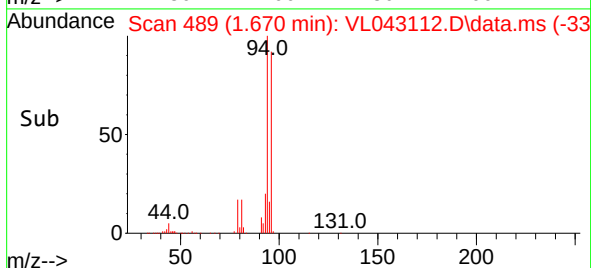
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025

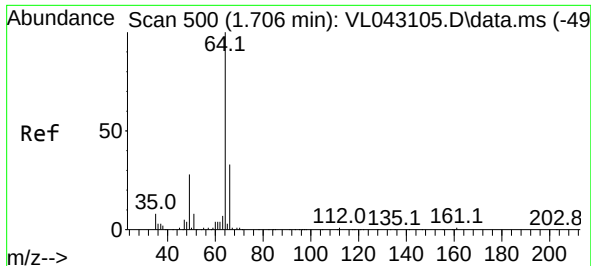


#6
 Bromomethane
 Concen: 8.901 ppbv
 RT: 1.670 min Scan# 489
 Delta R.T. -0.000 min
 Lab File: VL043112.D
 Acq: 14 Oct 2025 14:51



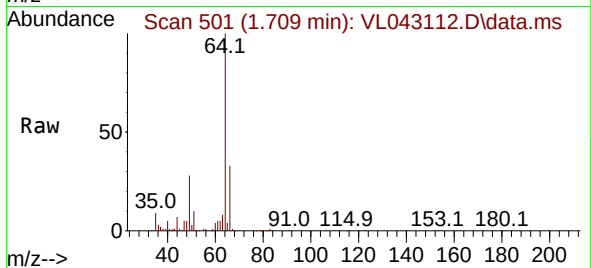
Tgt Ion: 94 Resp: 26304
 Ion Ratio Lower Upper
 94 100
 96 92.5 72.2 108.4





#7
Chloroethane
Concen: 8.685 ppbv
RT: 1.709 min Scan# 500
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

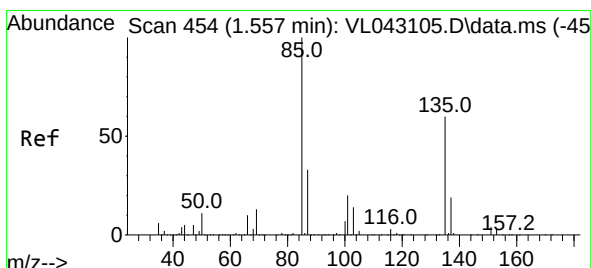
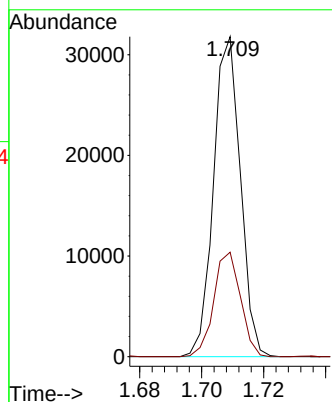
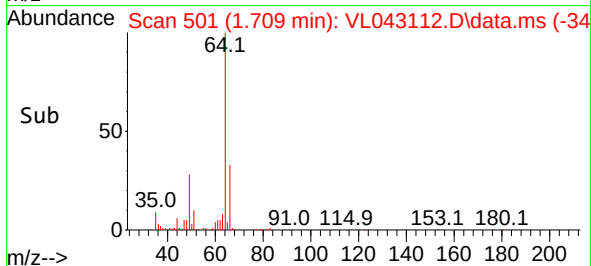
Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425



Tgt Ion: 64 Resp: 19138
Ion Ratio Lower Upper
64 100
66 32.7 26.0 39.0

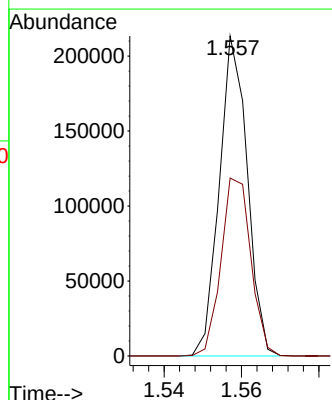
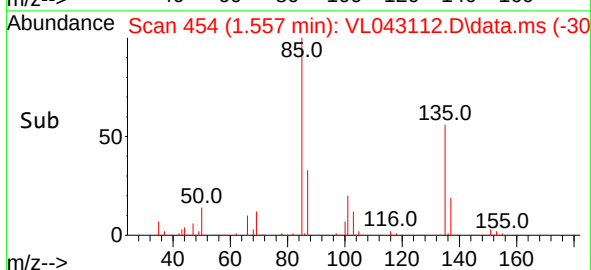
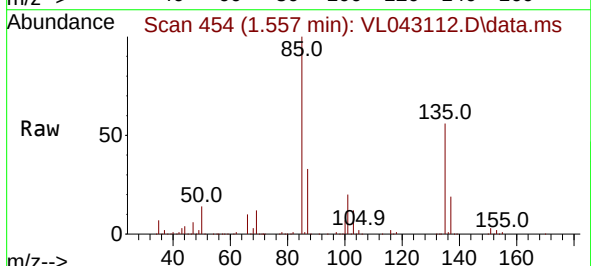
Manual Integrations
APPROVED

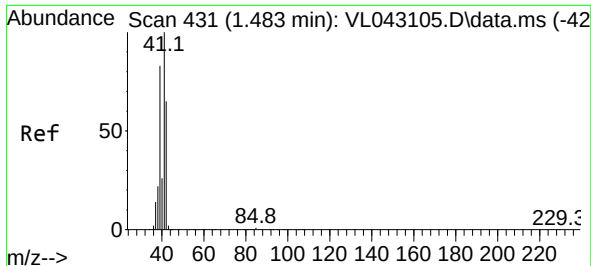
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#8
Dichlorotetrafluoroethane
Concen: 9.558 ppbv
RT: 1.557 min Scan# 454
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

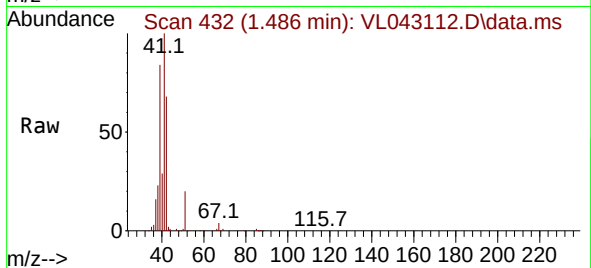
Tgt Ion: 85 Resp: 107147
Ion Ratio Lower Upper
85 100
135 59.5 48.2 72.4





#9
Propene
Concen: 8.908 ppbv
RT: 1.486 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

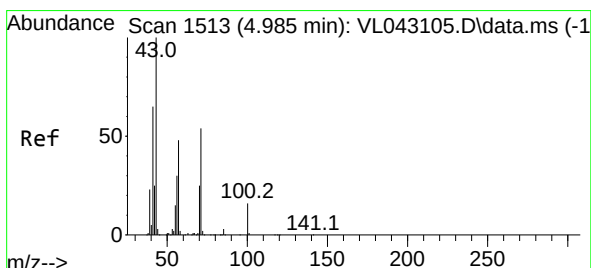
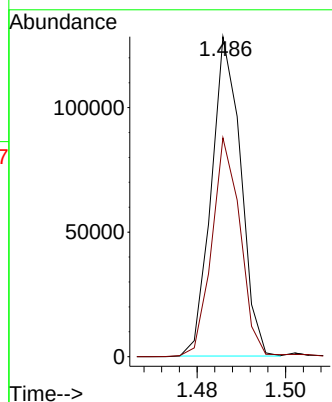
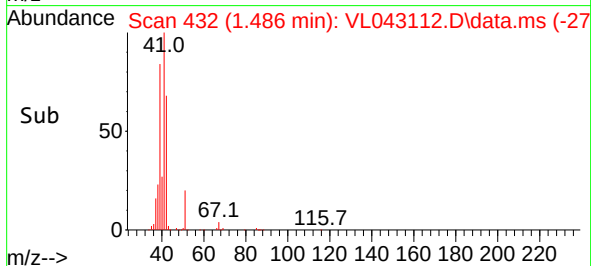
Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425



Tgt Ion: 41 Resp: 5928
Ion Ratio Lower Upper
41 100
42 67.3 55.1 82.7

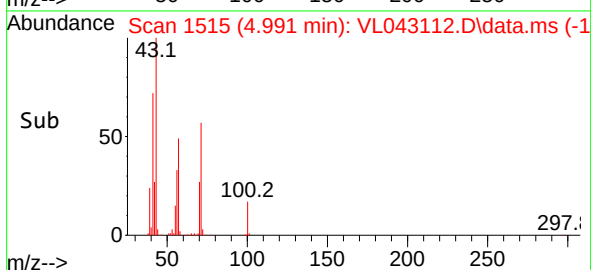
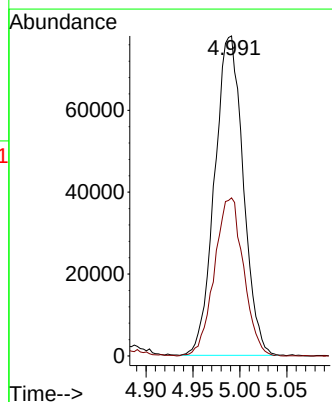
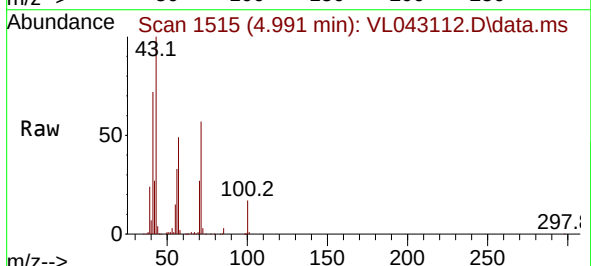
Manual Integrations
APPROVED

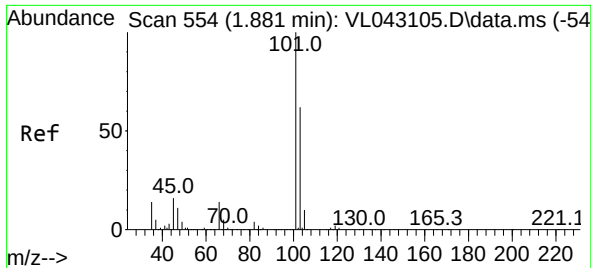
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#10
Heptane
Concen: 8.629 ppbv
RT: 4.991 min Scan# 1515
Delta R.T. 0.006 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

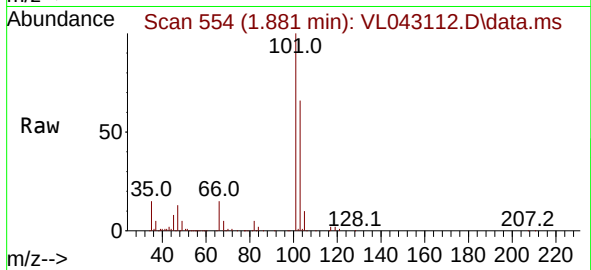
Tgt Ion: 43 Resp: 165341
Ion Ratio Lower Upper
43 100
57 50.4 40.8 61.2





#11
 Trichlorofluoromethane
 Concen: 9.762 ppbv
 RT: 1.881 min Scan# 511
 Delta R.T. -0.000 min
 Lab File: VL043112.D
 Acq: 14 Oct 2025 14:51

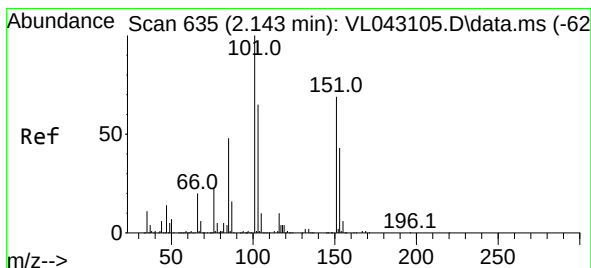
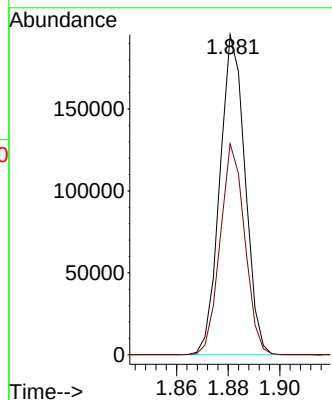
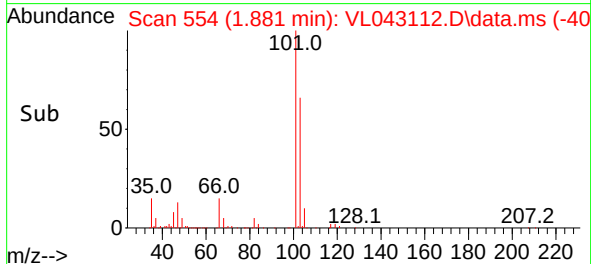
Instrument : MSVOA_L
 ClientSampleId : ICVVL101425



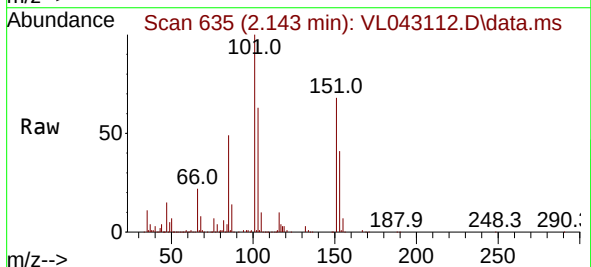
Tgt Ion:101 Resp: 13244
 Ion Ratio Lower Upper
 101 100
 103 65.9 49.3 73.9

Manual Integrations
 APPROVED

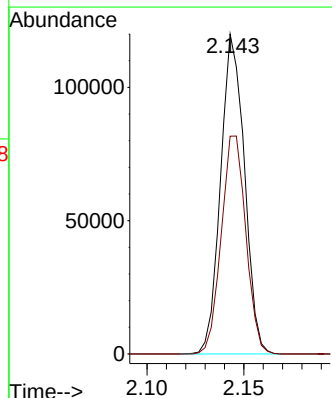
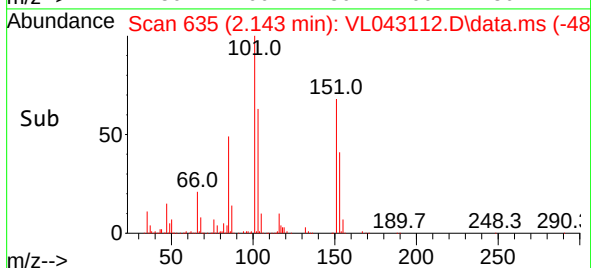
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025

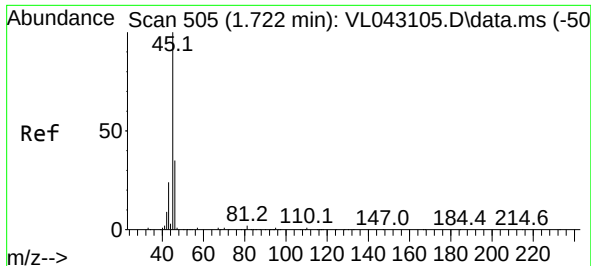


#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.380 ppbv
 RT: 2.143 min Scan# 635
 Delta R.T. -0.000 min
 Lab File: VL043112.D
 Acq: 14 Oct 2025 14:51



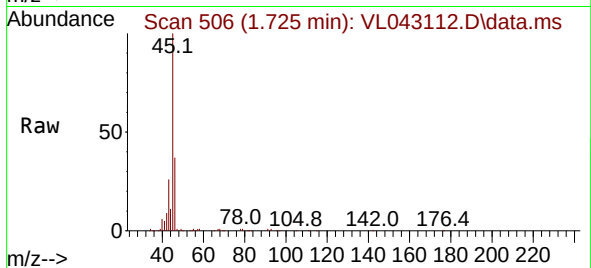
Tgt Ion:101 Resp: 102449
 Ion Ratio Lower Upper
 101 100
 151 70.4 54.7 82.1





#13
Ethanol
Concen: 7.173 ppbv m
RT: 1.725 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

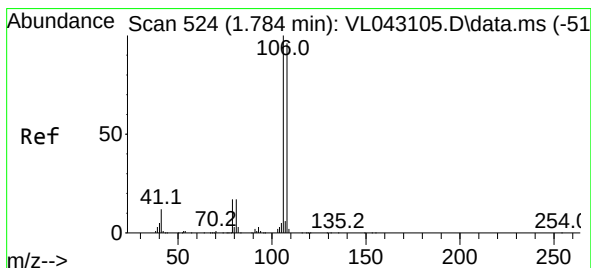
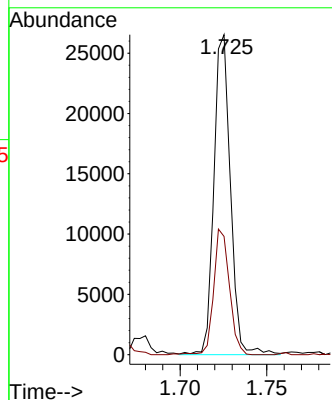
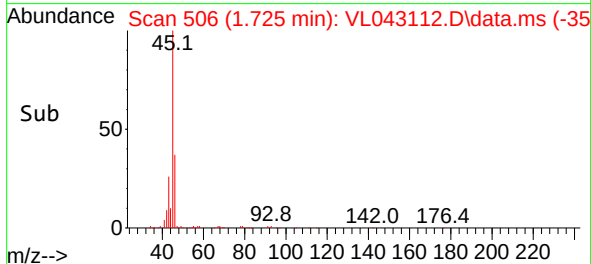
Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425



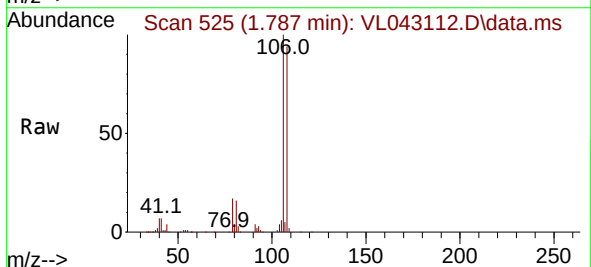
Tgt Ion: 45 Resp: 17659
Ion Ratio Lower Upper
45 100
46 37.4 14.7 58.9

Manual Integrations
APPROVED

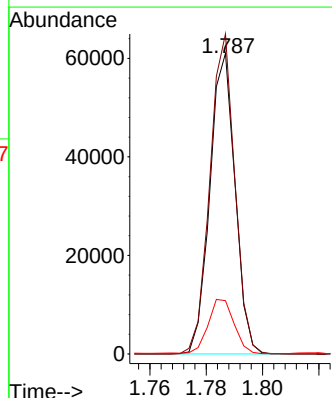
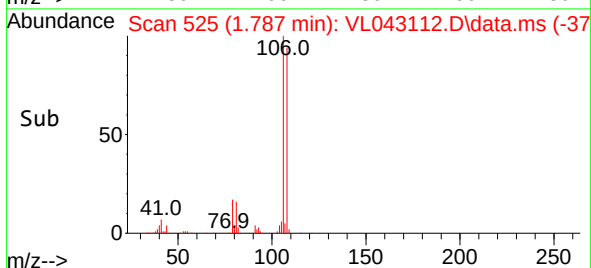
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

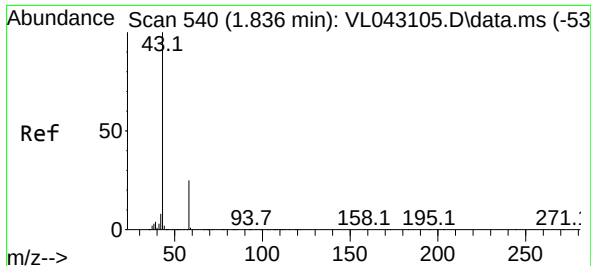


#14
Bromoethene
Concen: 9.324 ppbv
RT: 1.787 min Scan# 525
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51



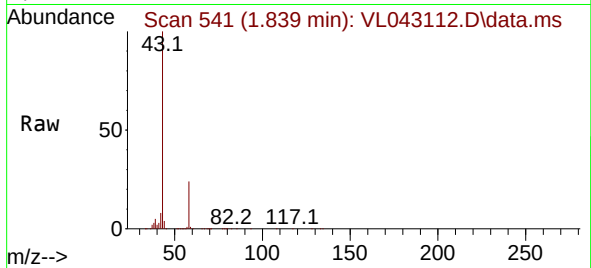
Tgt Ion:108 Resp: 37835
Ion Ratio Lower Upper
108 100
106 105.3 84.4 126.6
79 18.7 15.3 22.9





#15
Acetone
Concen: 8.214 ppbv
RT: 1.839 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

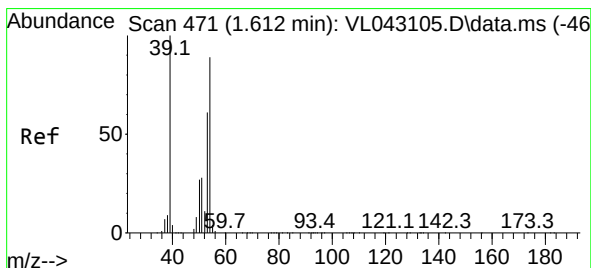
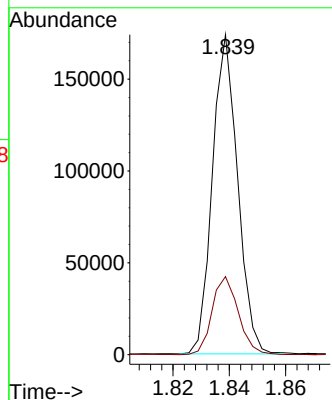
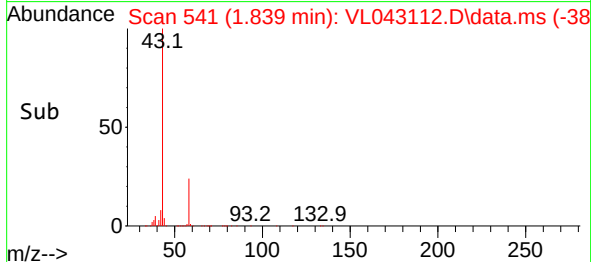
Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425



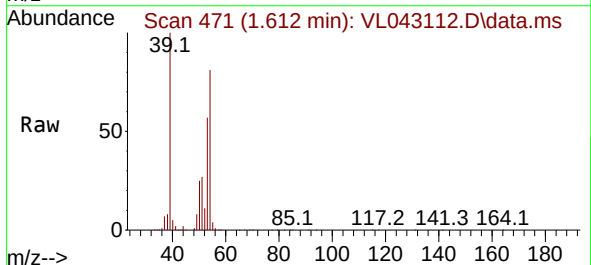
Tgt Ion: 43 Resp: 108010
Ion Ratio Lower Upper
43 100
58 25.7 20.8 31.2

Manual Integrations
APPROVED

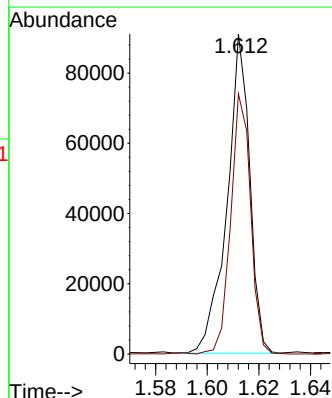
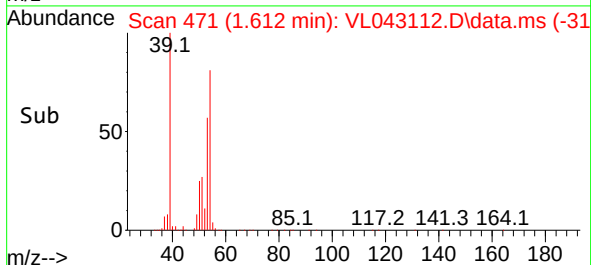
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

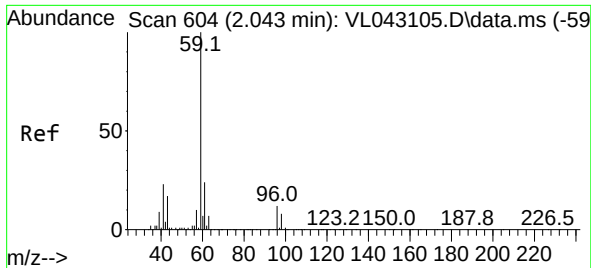


#16
1,3-Butadiene
Concen: 8.855 ppbv
RT: 1.612 min Scan# 471
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51



Tgt Ion: 39 Resp: 55493
Ion Ratio Lower Upper
39 100
54 72.0 59.0 88.4





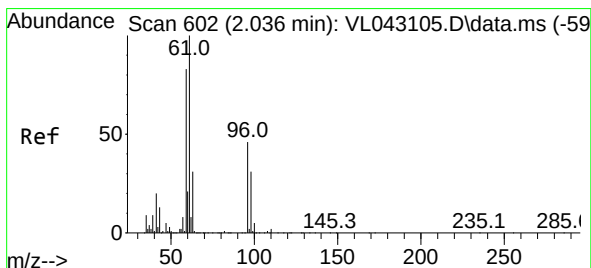
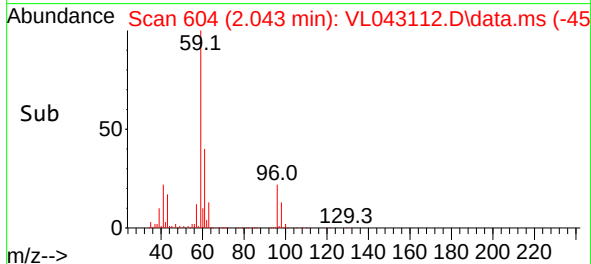
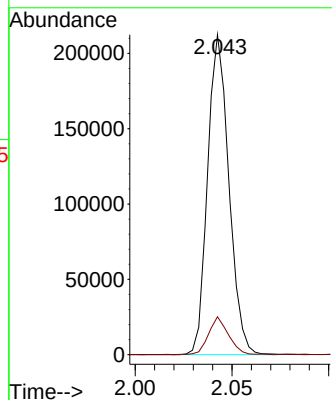
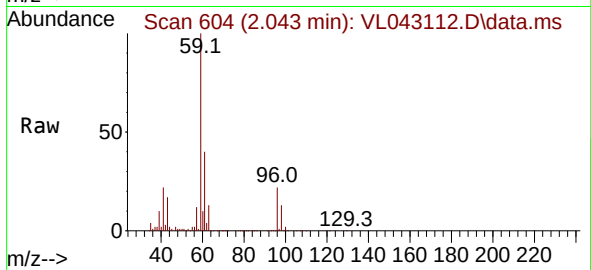
#17
tert-Butyl alcohol
Concen: 9.012 ppbv
RT: 2.043 min Scan# 604
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Instrument :
MSVOA_L
Client Sample Id :
ICVVL101425

Tgt Ion: 59 Resp: 162672
Ion Ratio Lower Upper
59 100
57 11.4 8.2 12.4

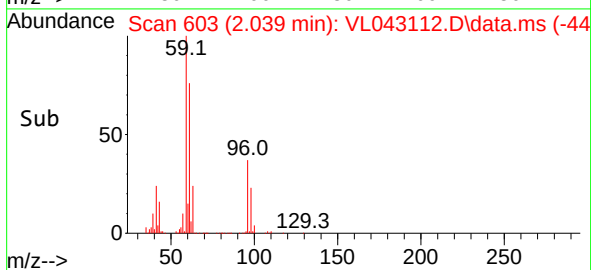
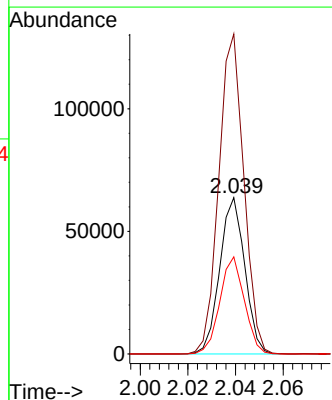
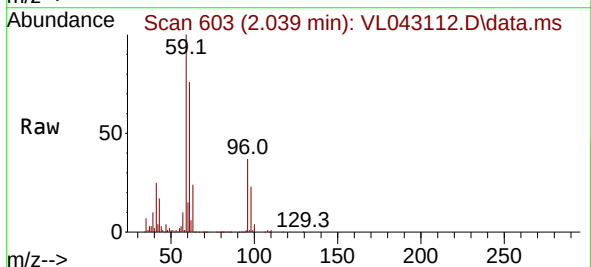
Manual Integrations
APPROVED

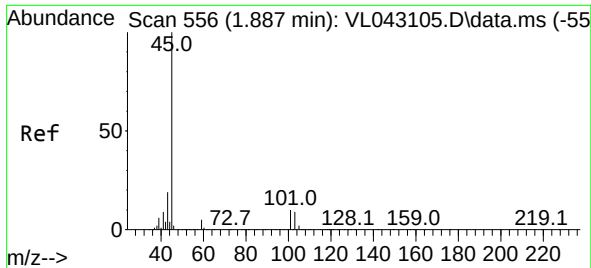
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#18
1,1-Dichloroethene
Concen: 9.774 ppbv
RT: 2.039 min Scan# 603
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

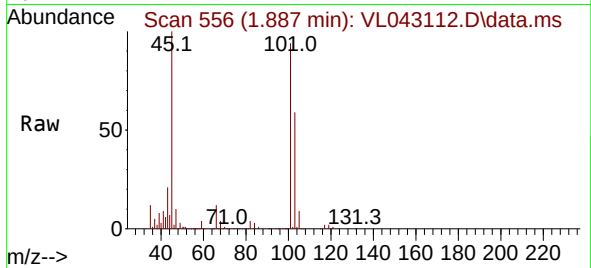
Tgt Ion: 96 Resp: 46544
Ion Ratio Lower Upper
96 100
61 204.7 173.4 260.0
98 62.1 53.2 79.8





#19
Isopropyl Alcohol
Concen: 8.248 ppbv
RT: 1.887 min Scan# 556
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

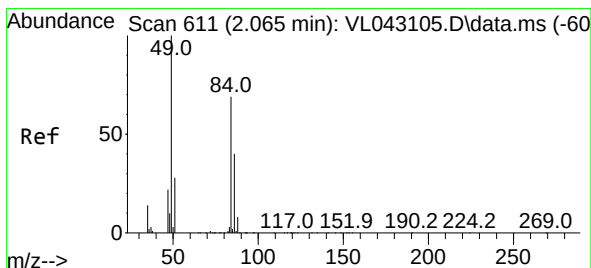
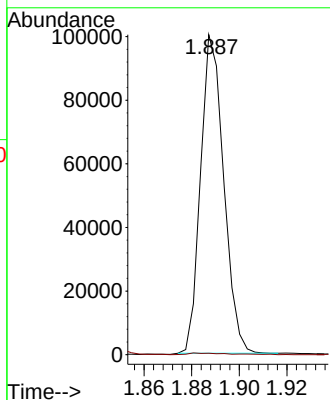
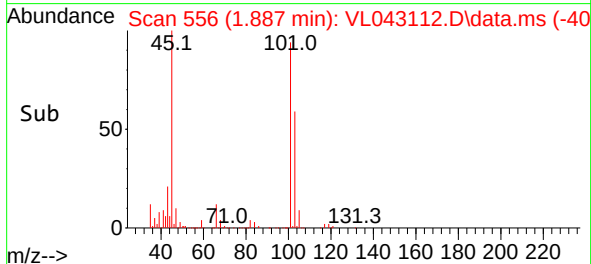
Instrument : MSVOA_L
ClientSampleId : ICVVL101425



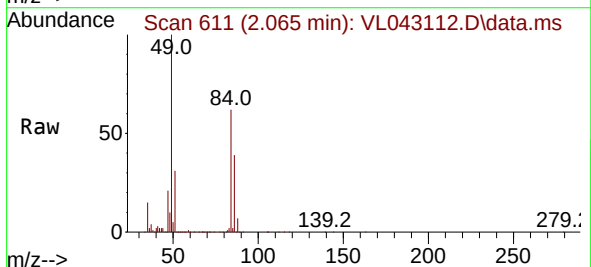
Tgt Ion: 45 Resp: 67552
Ion Ratio Lower Upper
45 100
58 41.1 31.3 46.9

Manual Integrations
APPROVED

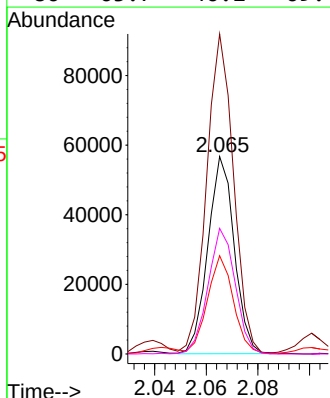
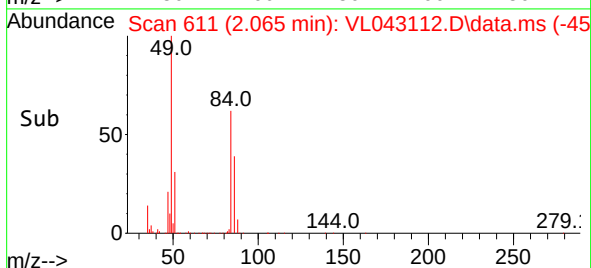
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

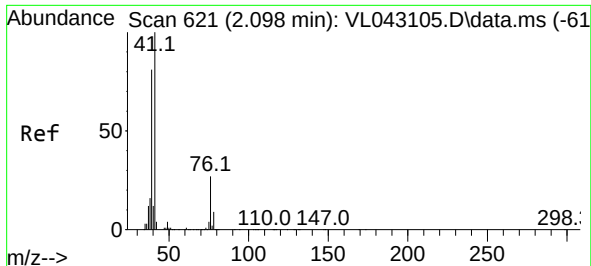


#20
Methylene Chloride
Concen: 7.757 ppbv
RT: 2.065 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51



Tgt Ion: 84 Resp: 40319
Ion Ratio Lower Upper
84 100
49 161.4 116.6 175.0
51 49.4 34.8 52.2
86 63.7 46.2 69.4





#21
 Allyl Chloride
 Concen: 9.181 ppbv
 RT: 2.101 min Scan# 611
 Delta R.T. 0.003 min
 Lab File: VL043112.D
 Acq: 14 Oct 2025 14:51

Instrument :

MSVOA_L

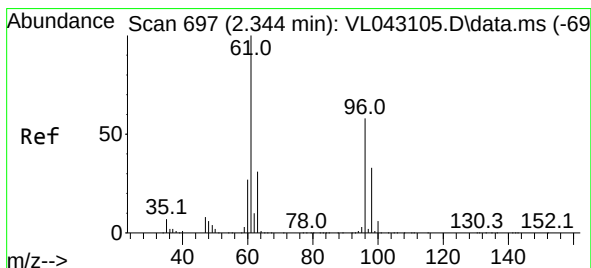
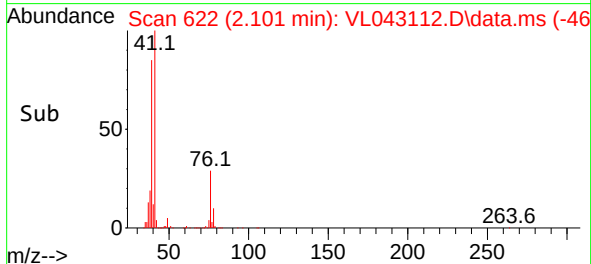
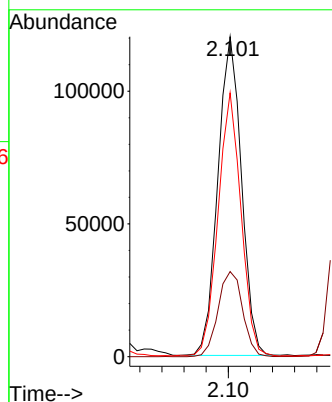
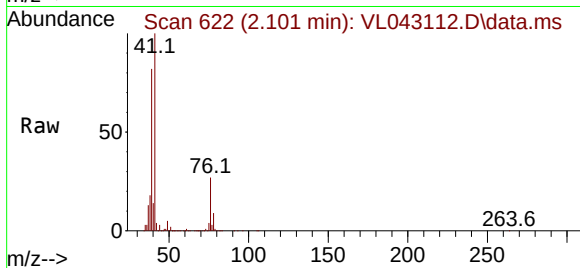
ClientSampleId :

ICVVL101425

Tgt Ion: 41 Resp: 8896
 Ion Ratio Lower Upper
 41 100
 76 27.7 21.5 32.3
 39 80.2 60.8 91.2

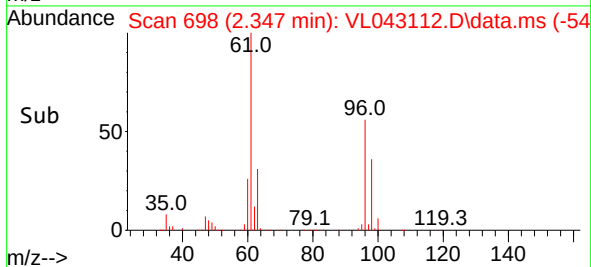
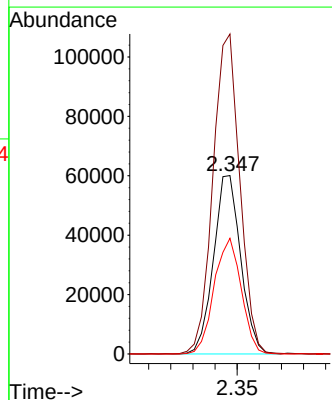
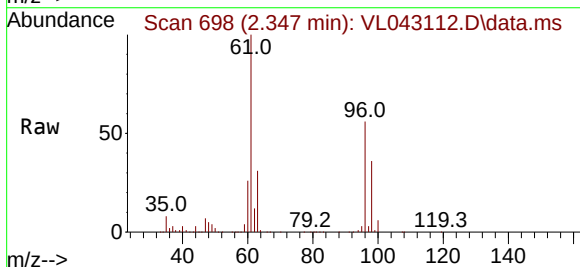
Manual Integrations
 APPROVED

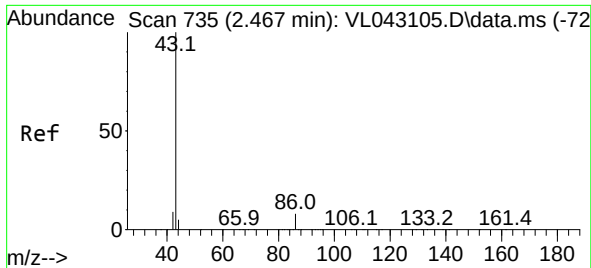
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025



#22
 trans-1,2-Dichloroethene
 Concen: 9.011 ppbv
 RT: 2.347 min Scan# 698
 Delta R.T. 0.003 min
 Lab File: VL043112.D
 Acq: 14 Oct 2025 14:51

Tgt Ion: 96 Resp: 51295
 Ion Ratio Lower Upper
 96 100
 61 179.2 137.0 205.6
 98 64.8 45.5 68.3





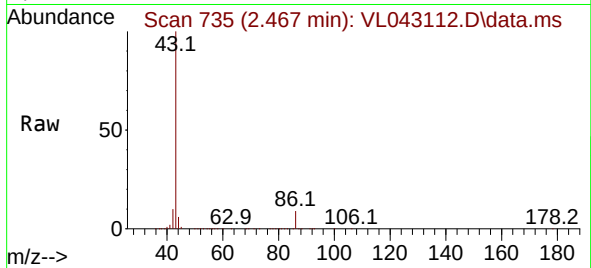
#23
 Vinyl Acetate
 Concen: 9.621 ppbv
 RT: 2.467 min Scan# 719
 Delta R.T. -0.000 min
 Lab File: VL043112.D
 Acq: 14 Oct 2025 14:51

Instrument :

MSVOA_L

ClientSampleId :

ICVVL101425

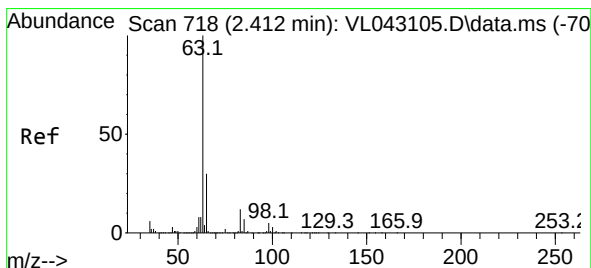
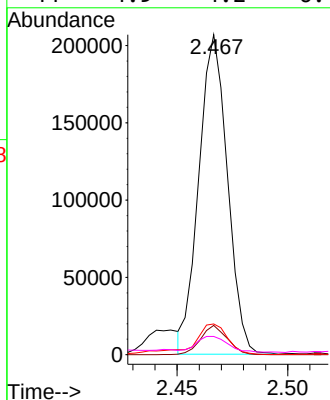
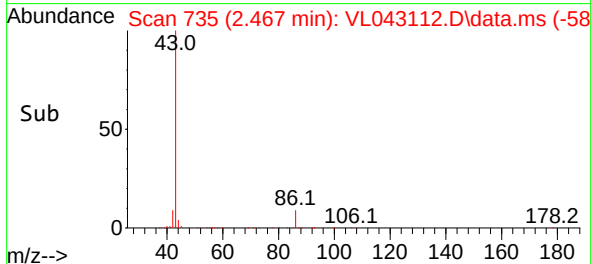


Tgt Ion: 43 Resp: 185329
 Ion Ratio Lower Upper
 43 100
 86 9.2 6.2 9.2
 42 9.5 7.6 11.4
 44 4.9 4.2 6.4

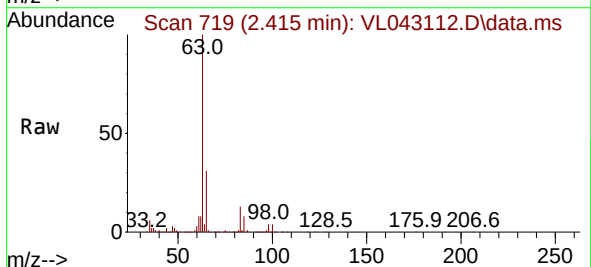
Manual Integrations

APPROVED

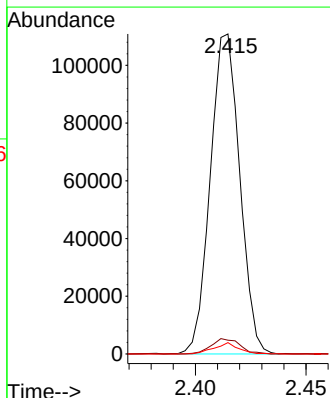
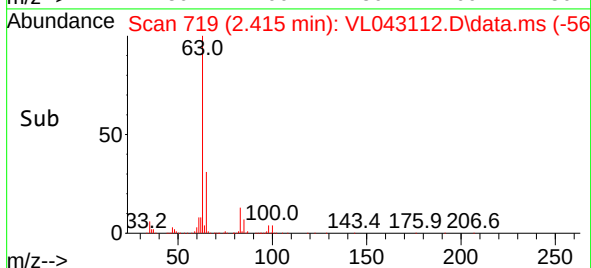
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025

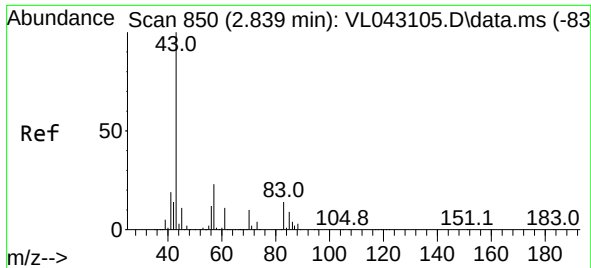


#24
 1,1-Dichloroethane
 Concen: 9.355 ppbv
 RT: 2.415 min Scan# 719
 Delta R.T. 0.003 min
 Lab File: VL043112.D
 Acq: 14 Oct 2025 14:51



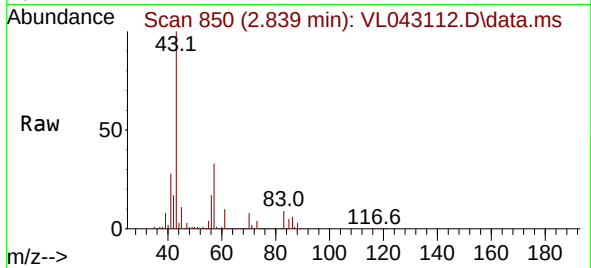
Tgt Ion: 63 Resp: 102877
 Ion Ratio Lower Upper
 63 100
 98 4.3 2.6 7.8
 100 3.5 1.5 4.4





#25
Ethyl Acetate
Concen: 8.966 ppbv
RT: 2.839 min Scan# 847
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

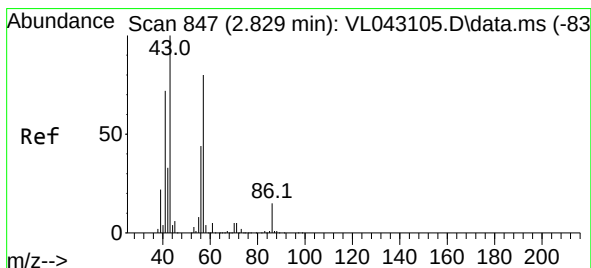
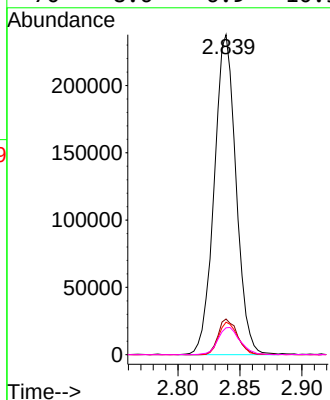
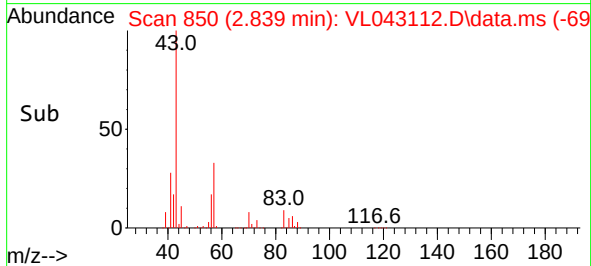
Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425



Tgt Ion: 43 Resp: 292399
Ion Ratio Lower Upper
43 100
45 10.0 7.8 11.8
61 9.0 7.0 10.6
70 8.6 6.9 10.3

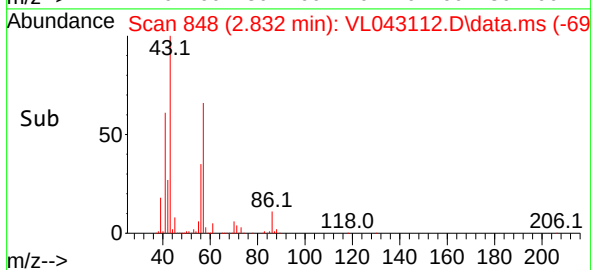
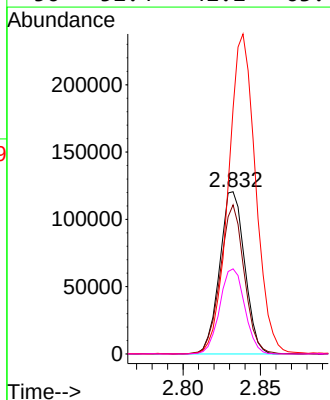
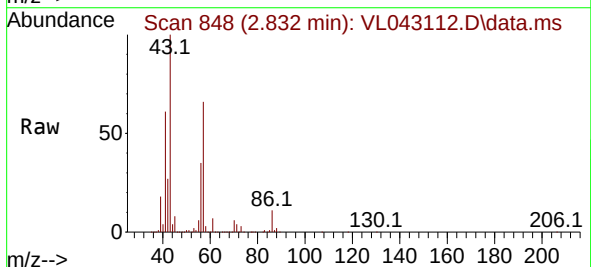
Manual Integrations
APPROVED

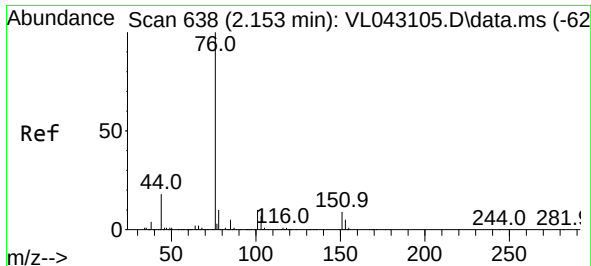
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#26
Hexane
Concen: 9.015 ppbv
RT: 2.832 min Scan# 848
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

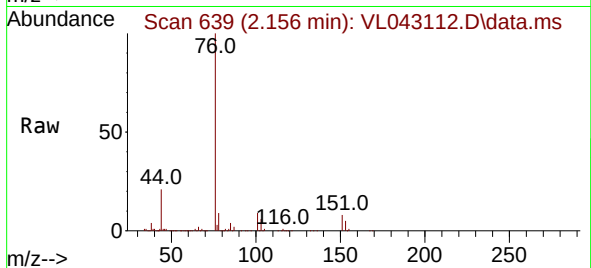
Tgt Ion: 57 Resp: 135463
Ion Ratio Lower Upper
57 100
41 88.9 71.4 107.0
43 216.8 178.5 267.7
56 52.4 42.2 63.4





#27
Carbon Disulfide
Concen: 9.520 ppbv
RT: 2.156 min Scan# 611
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

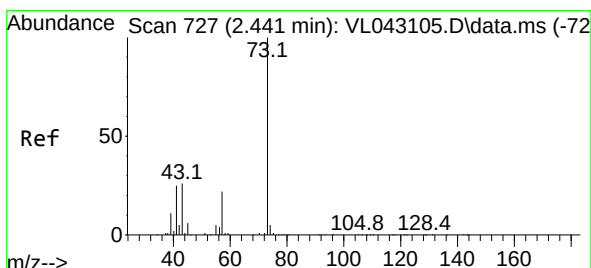
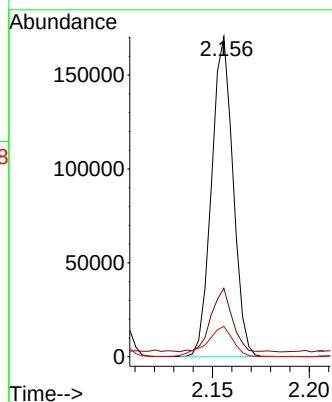
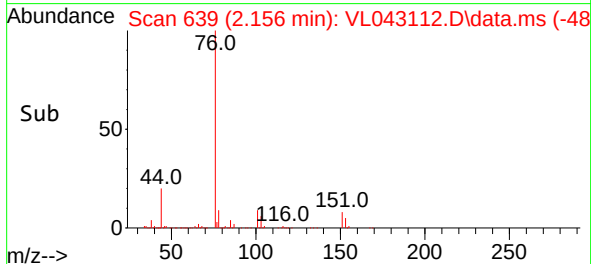
Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425



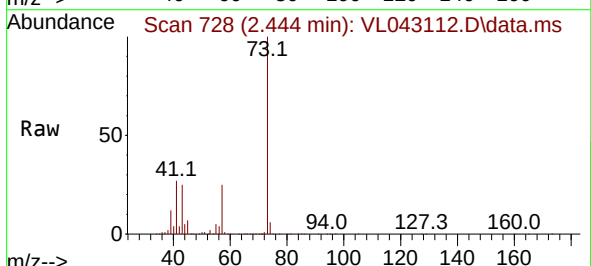
Tgt Ion: 76 Resp: 131064
Ion Ratio Lower Upper
76 100
44 20.7 16.7 25.1
78 11.7 9.3 13.9

Manual Integrations
APPROVED

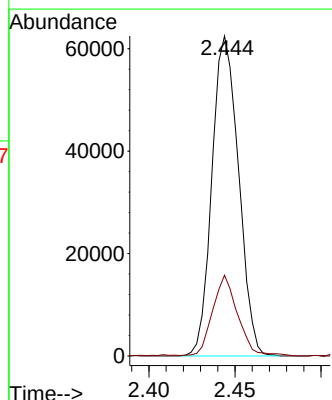
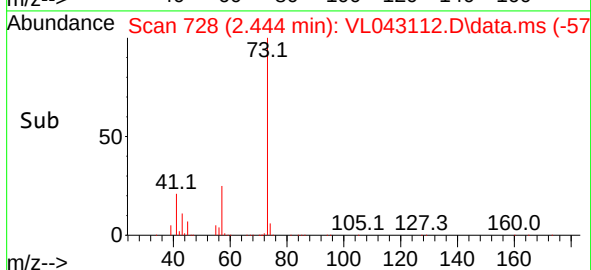
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

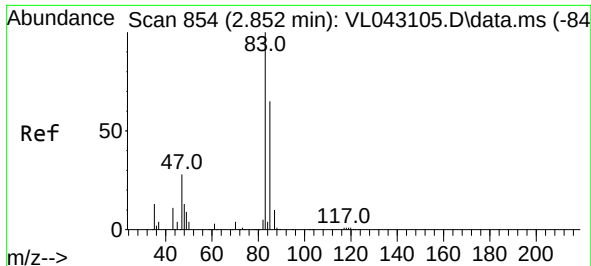


#28
Methyl tert-Butyl Ether
Concen: 9.839 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51



Tgt Ion: 73 Resp: 67260
Ion Ratio Lower Upper
73 100
57 24.1 20.5 30.7





#29

Chloroform

Concen: 9.412 ppbv

RT: 2.852 min Scan# 854

Delta R.T. -0.000 min

Lab File: VL043112.D

Acq: 14 Oct 2025 14:51

Instrument :

MSVOA_L

ClientSampleId :

ICVVL101425

Tgt Ion: 83 Resp: 204925

Ion Ratio Lower Upper

83 100

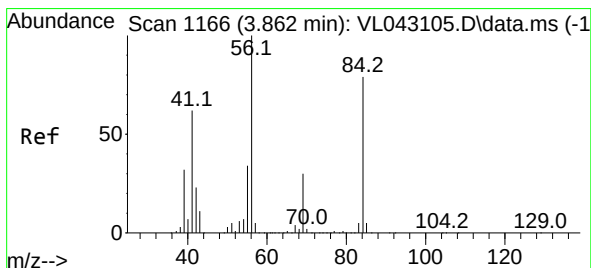
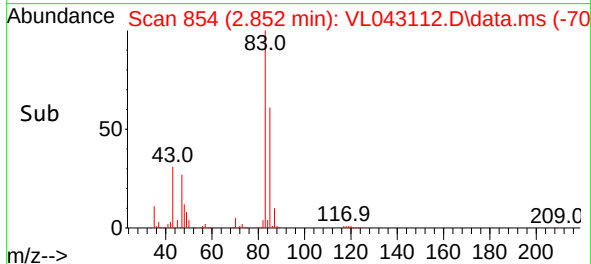
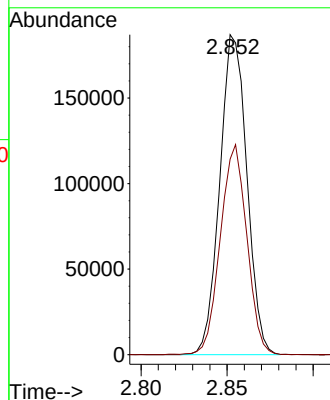
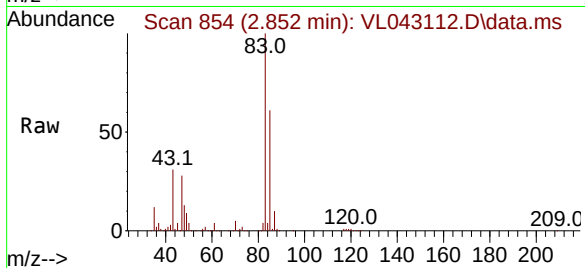
85 61.0 51.8 77.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#30

Cyclohexane

Concen: 9.096 ppbv

RT: 3.865 min Scan# 1167

Delta R.T. 0.003 min

Lab File: VL043112.D

Acq: 14 Oct 2025 14:51

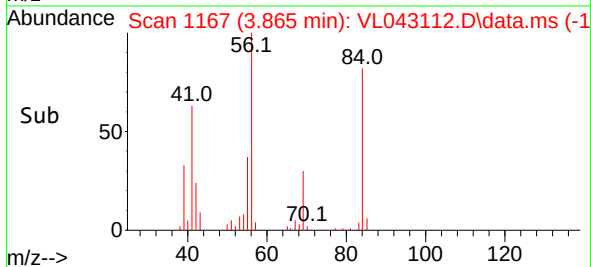
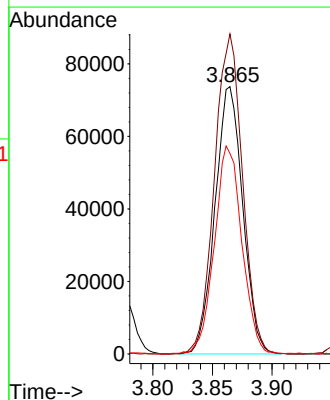
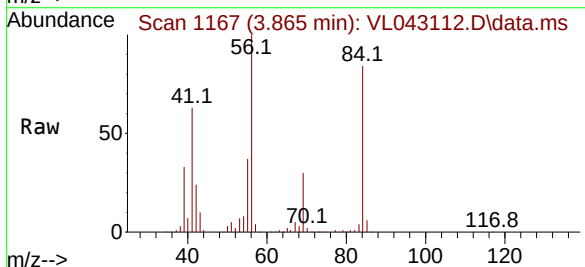
Tgt Ion: 84 Resp: 119287

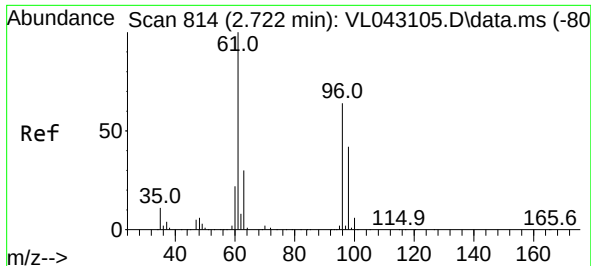
Ion Ratio Lower Upper

84 100

56 120.8 100.9 151.3

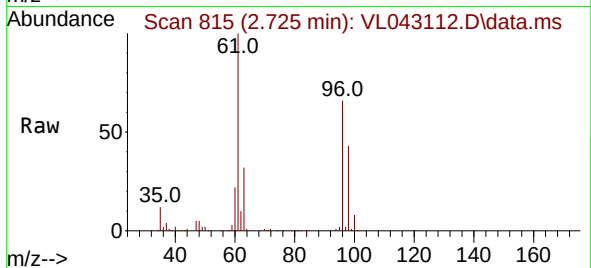
41 77.4 63.8 95.6





#31
 cis-1,2-Dichloroethene
 Concen: 9.580 ppbv
 RT: 2.725 min Scan# 814
 Delta R.T. 0.003 min
 Lab File: VL043112.D
 Acq: 14 Oct 2025 14:51

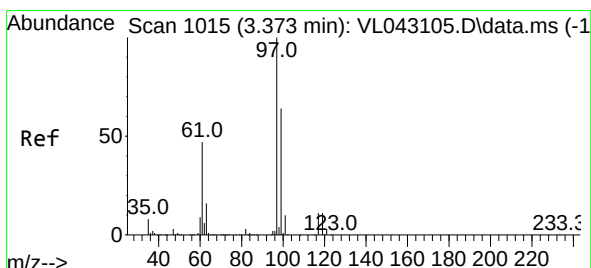
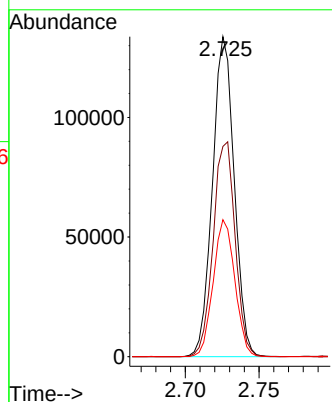
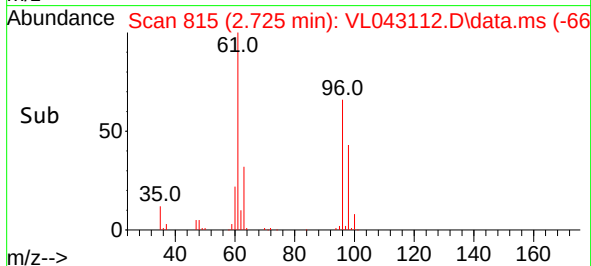
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL101425



Tgt Ion: 61 Resp: 137462
 Ion Ratio Lower Upper
 61 100
 96 65.7 51.0 76.6
 98 42.8 33.5 50.3

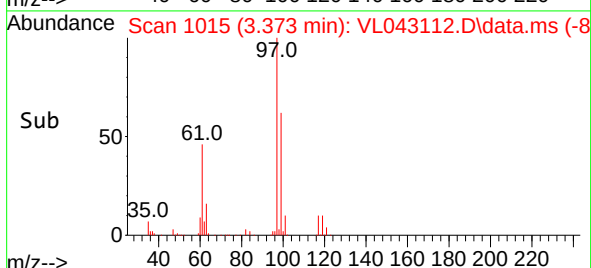
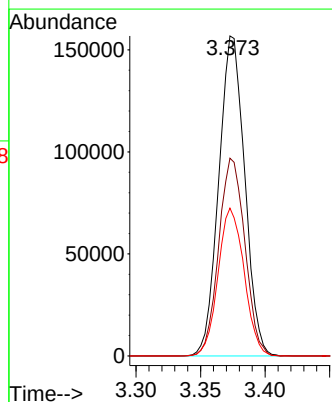
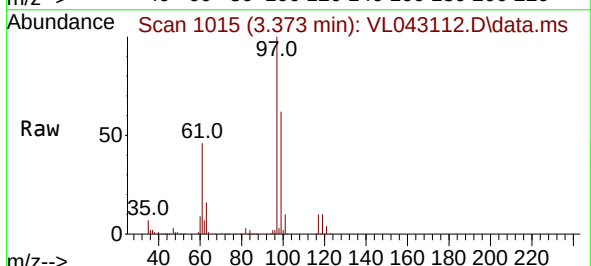
Manual Integrations
 APPROVED

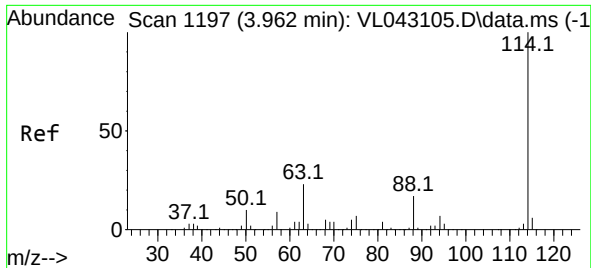
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025



#32
 1,1,1-Trichloroethane
 Concen: 9.666 ppbv
 RT: 3.373 min Scan# 1015
 Delta R.T. -0.000 min
 Lab File: VL043112.D
 Acq: 14 Oct 2025 14:51

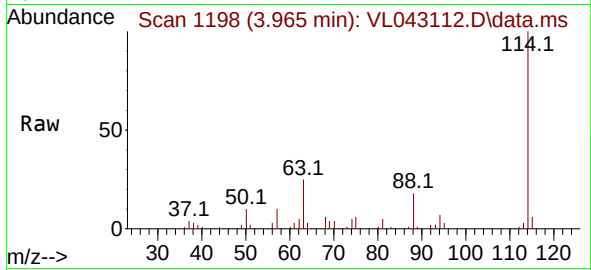
Tgt Ion: 97 Resp: 219167
 Ion Ratio Lower Upper
 97 100
 99 62.3 51.3 76.9
 61 46.4 38.4 57.6





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1198
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

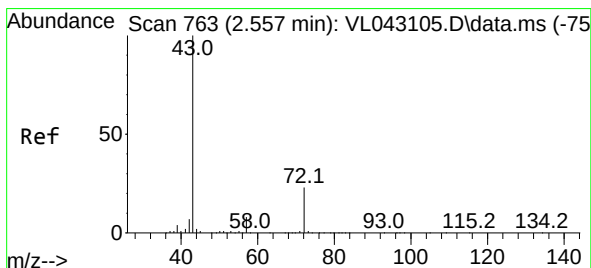
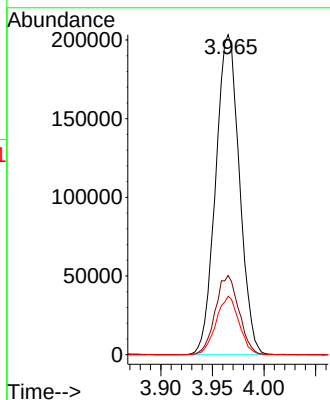
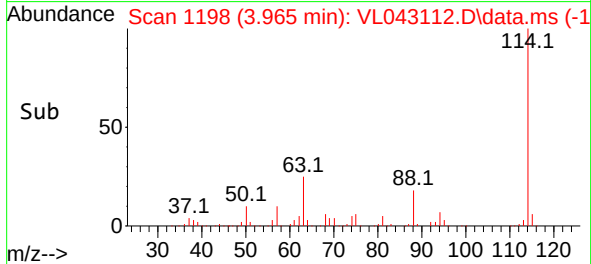
Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425



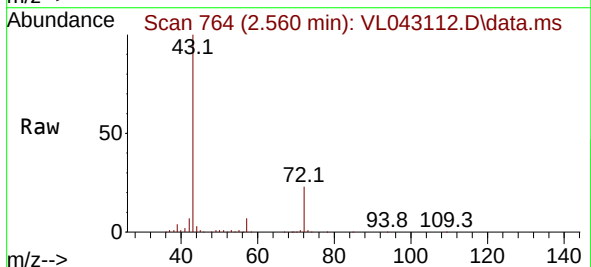
Tgt Ion:114 Resp: 325610
Ion Ratio Lower Upper
114 100
63 24.6 19.3 28.9
88 17.6 13.9 20.9

Manual Integrations
APPROVED

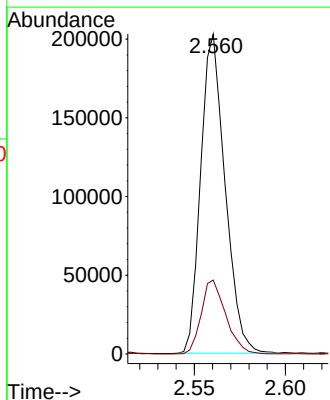
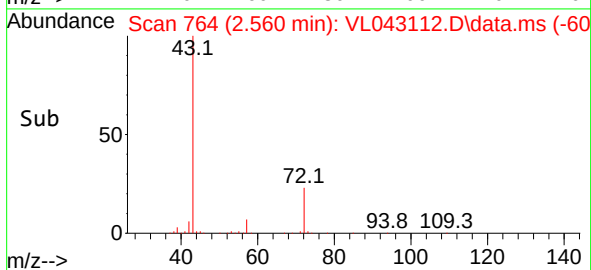
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

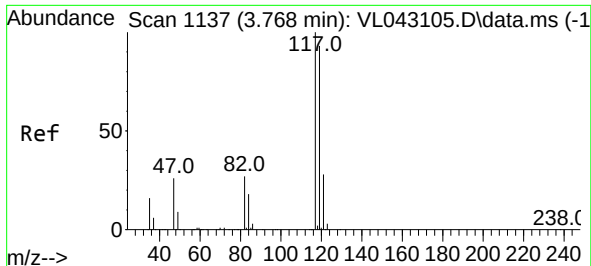


#34
2-Butanone
Concen: 8.624 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51



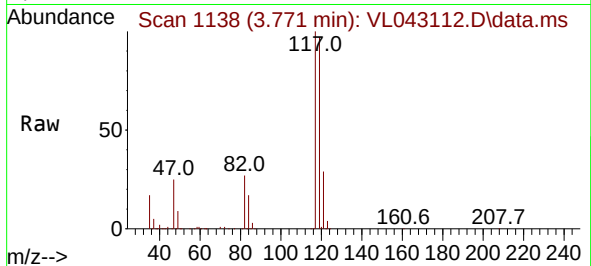
Tgt Ion: 43 Resp: 188755
Ion Ratio Lower Upper
43 100
72 23.4 18.4 27.6





#35
Carbon Tetrachloride
Concen: 9.298 ppbv
RT: 3.771 min Scan# 1137
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

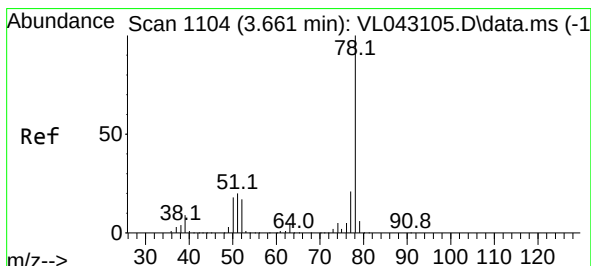
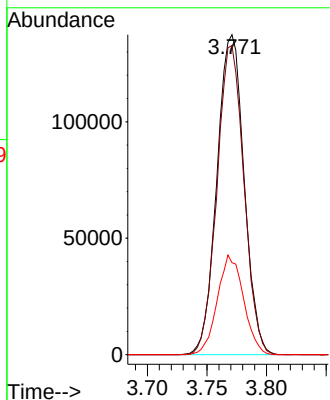
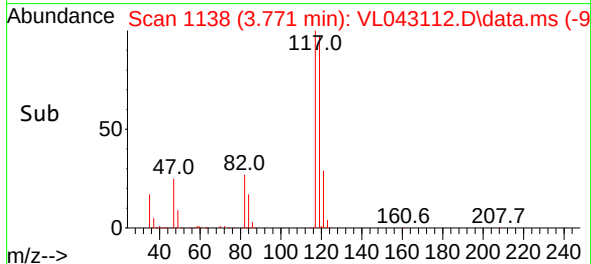
Instrument : MSVOA_L
ClientSampleId : ICVVL101425



Tgt Ion: 117 Resp: 217678
Ion Ratio Lower Upper
117 100
119 96.6 74.1 111.1
121 28.7 22.2 33.2

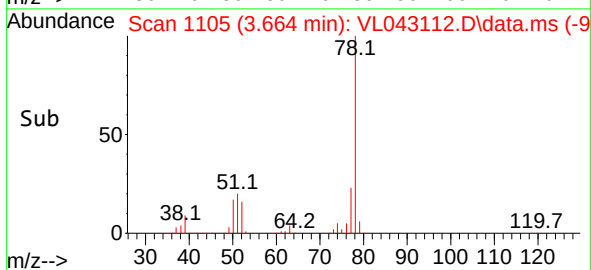
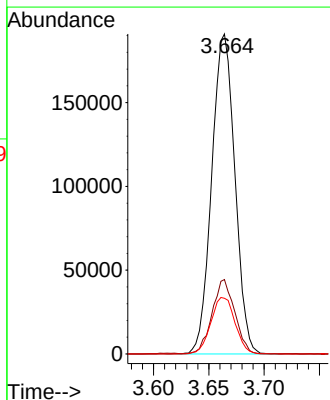
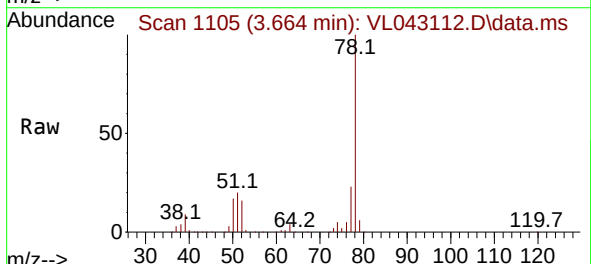
Manual Integrations
APPROVED

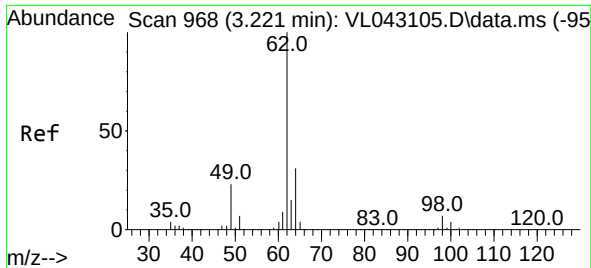
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#36
Benzene
Concen: 9.077 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 78 Resp: 278365
Ion Ratio Lower Upper
78 100
77 23.2 17.0 25.6
50 17.4 14.6 22.0





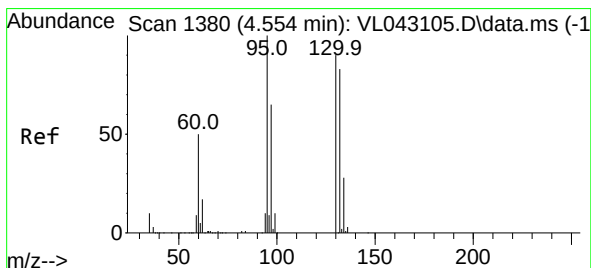
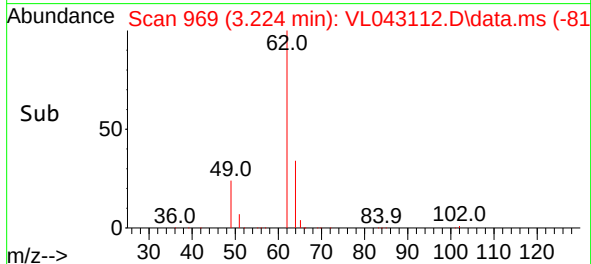
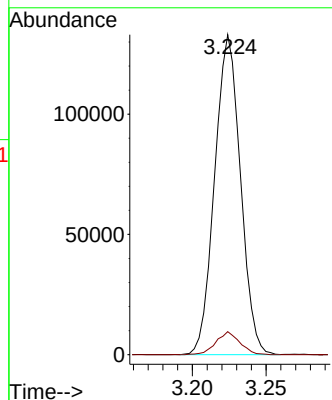
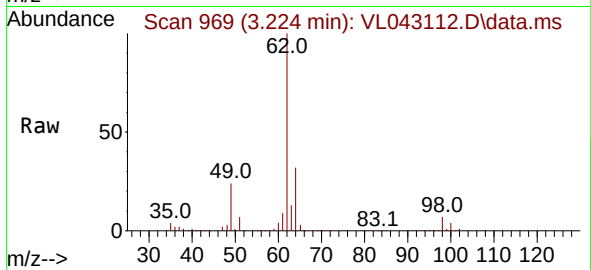
#37
1,2-Dichloroethane
Concen: 9.156 ppbv
RT: 3.224 min Scan# 969
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Tgt Ion: 62 Resp: 161750
Ion Ratio Lower Upper
62 100
98 6.7 5.8 8.6

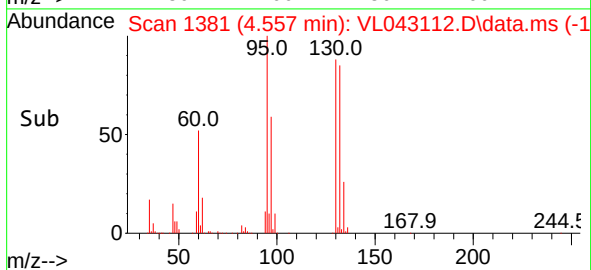
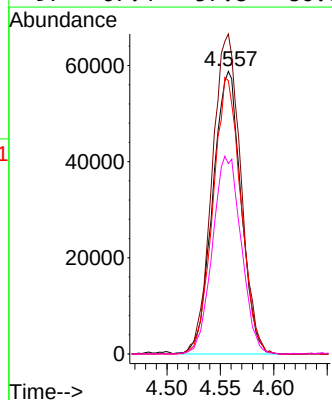
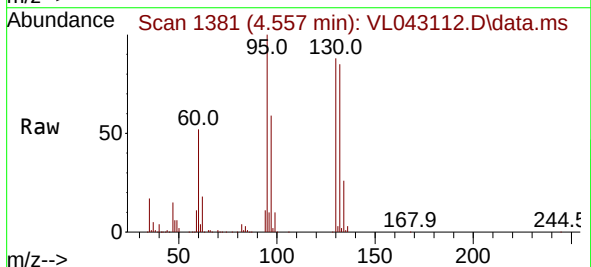
Manual Integrations
APPROVED

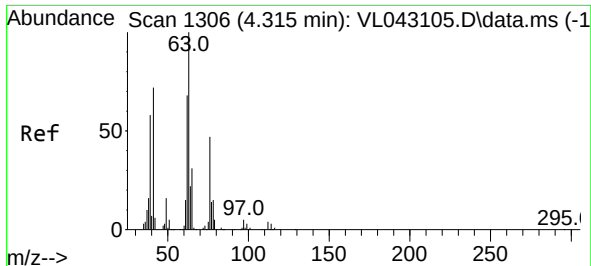
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#38
Trichloroethene
Concen: 8.453 ppbv
RT: 4.557 min Scan# 1381
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion:130 Resp: 108261
Ion Ratio Lower Upper
130 100
95 113.2 88.6 133.0
132 96.7 73.4 110.0
97 67.4 57.8 86.6





#39

1,2-Dichloropropane

Concen: 8.971 ppbv

RT: 4.321 min Scan# 11

Delta R.T. 0.006 min

Lab File: VL043112.D

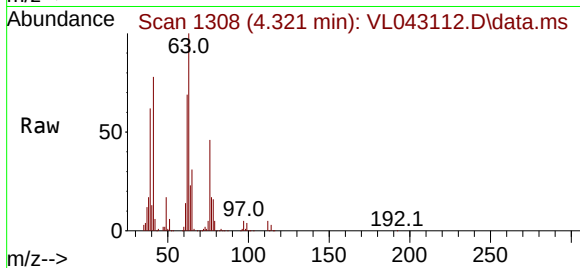
Acq: 14 Oct 2025 14:51

Instrument :

MSVOA_L

ClientSampleId :

ICVVL101425



Tgt Ion: 63 Resp: 100580

Ion Ratio Lower Upper

63 100

41 78.0 58.0 87.0

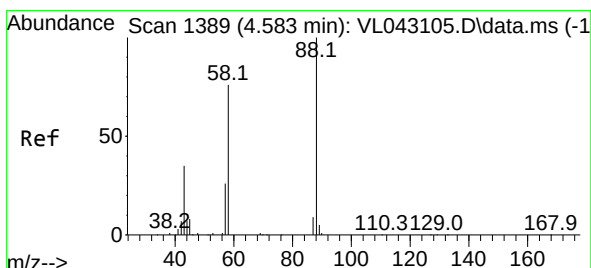
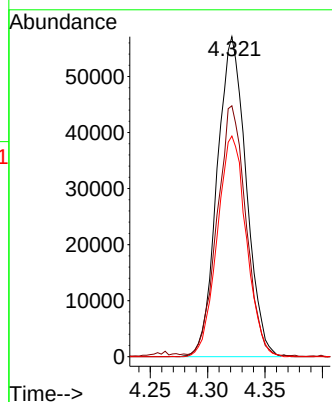
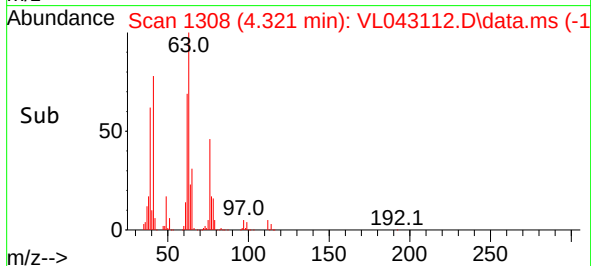
62 69.0 54.7 82.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#40

1,4-Dioxane

Concen: 8.265 ppbv

RT: 4.587 min Scan# 1390

Delta R.T. 0.003 min

Lab File: VL043112.D

Acq: 14 Oct 2025 14:51

Tgt Ion: 88 Resp: 41464

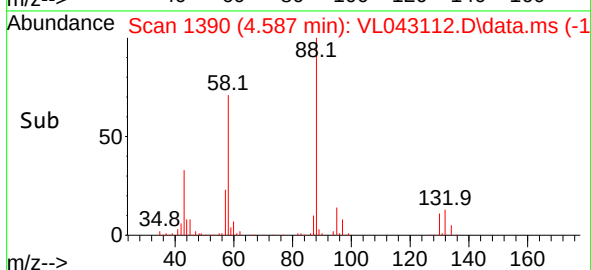
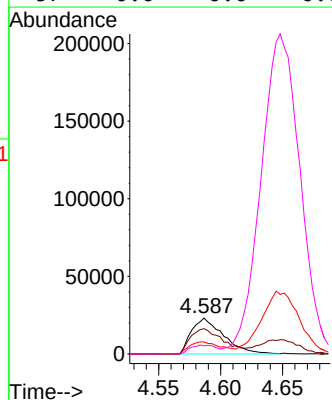
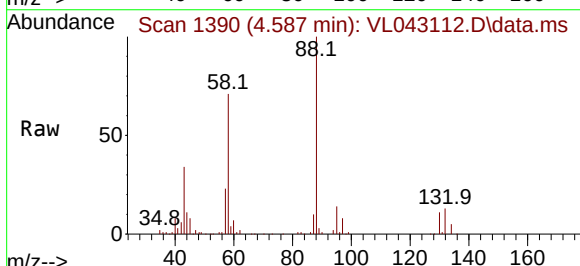
Ion Ratio Lower Upper

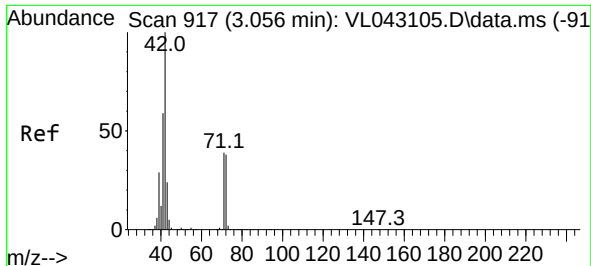
88 100

58 74.2 61.1 91.7

43 35.4 24.0 36.0

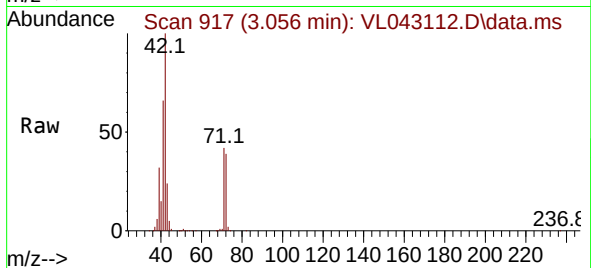
57 0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 8.553 ppbv
RT: 3.056 min Scan# 917
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

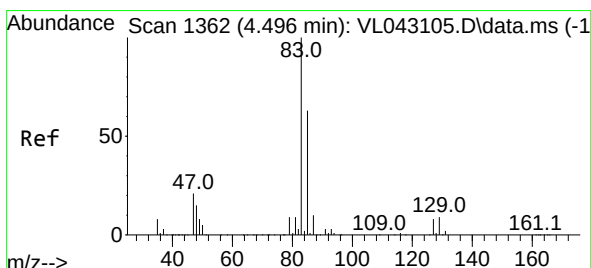
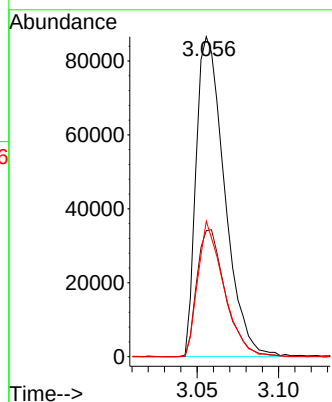
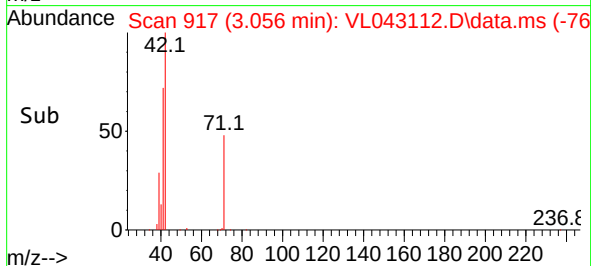
Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425



Tgt Ion: 42 Resp: 10470
Ion Ratio Lower Upper
42 100
72 39.8 31.3 46.9
71 38.8 30.4 45.6

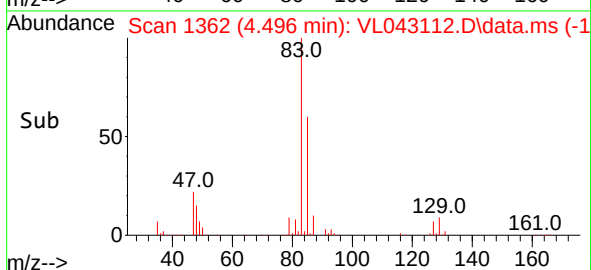
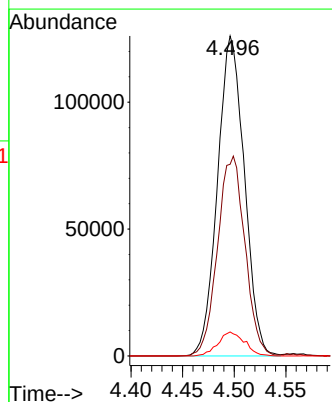
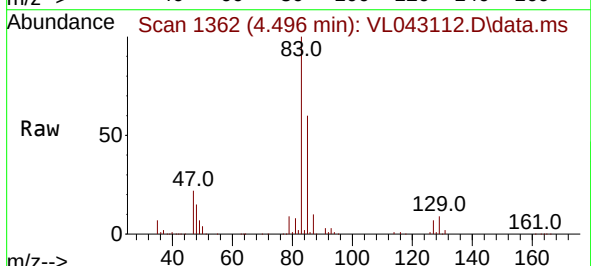
Manual Integrations
APPROVED

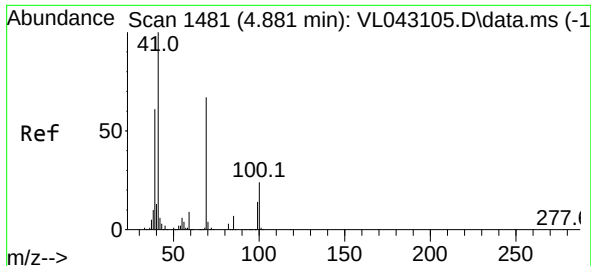
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#42
Bromodichloromethane
Concen: 9.336 ppbv
RT: 4.496 min Scan# 1362
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

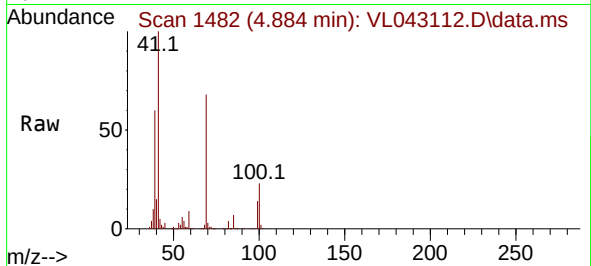
Tgt Ion: 83 Resp: 228288
Ion Ratio Lower Upper
83 100
85 59.8 50.6 75.8
127 7.5 6.3 9.5





#43
Methyl Methacrylate
Concen: 8.898 ppbv
RT: 4.884 min Scan# 1482
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

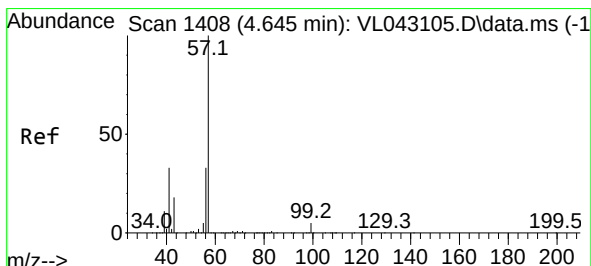
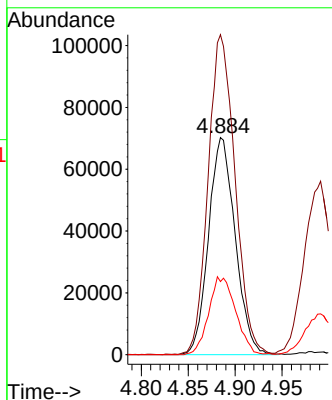
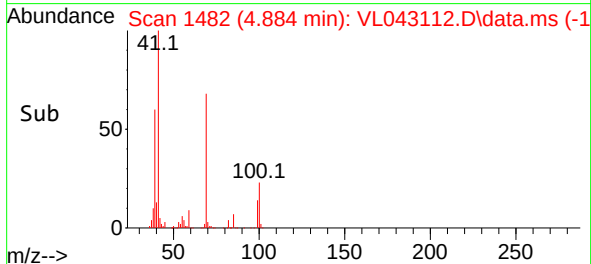
Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425



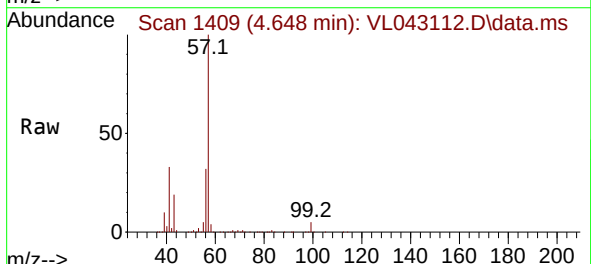
Tgt Ion: 69 Resp: 13859
Ion Ratio Lower Upper
69 100
41 149.1 120.5 180.7
100 36.3 29.0 43.4

Manual Integrations
APPROVED

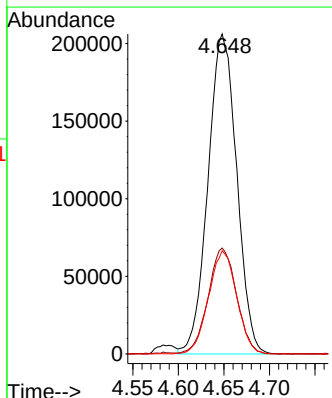
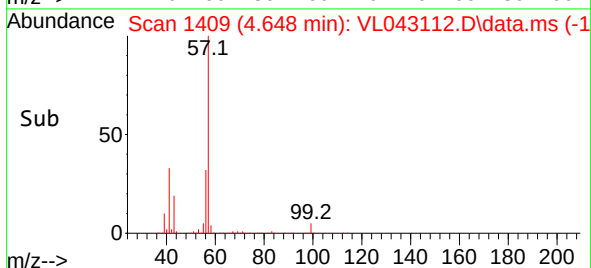
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

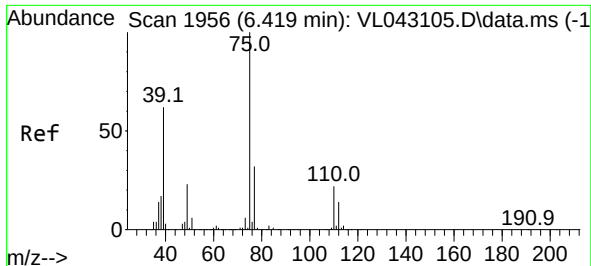


#44
2,2,4-Trimethylpentane
Concen: 8.738 ppbv
RT: 4.648 min Scan# 1409
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51



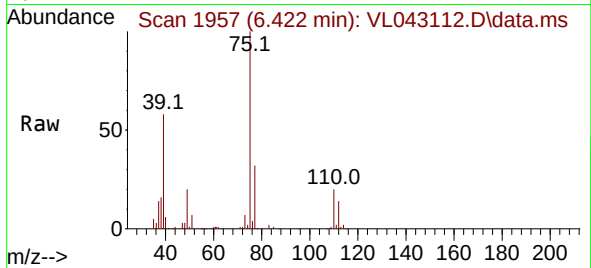
Tgt Ion: 57 Resp: 452117
Ion Ratio Lower Upper
57 100
41 33.2 26.3 39.5
56 31.6 25.9 38.9





#45
 t-1,3-Dichloropropene
 Concen: 9.146 ppbv
 RT: 6.422 min Scan# 1956
 Delta R.T. 0.003 min
 Lab File: VL043112.D
 Acq: 14 Oct 2025 14:51

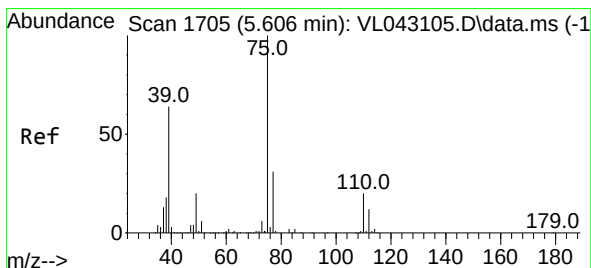
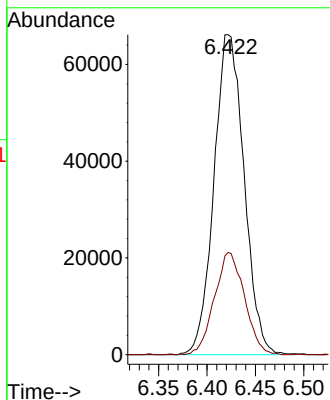
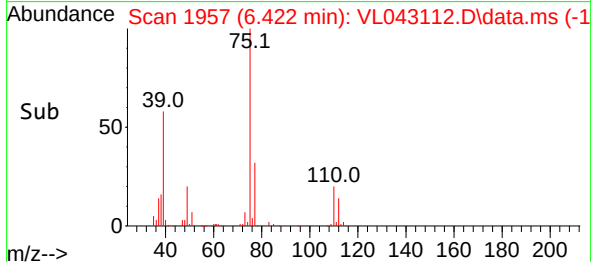
Instrument : MSVOA_1
 ClientSampleId : ICVVL101425



Tgt Ion: 75 Resp: 142964
 Ion Ratio Lower Upper
 75 100
 77 32.0 25.4 38.2

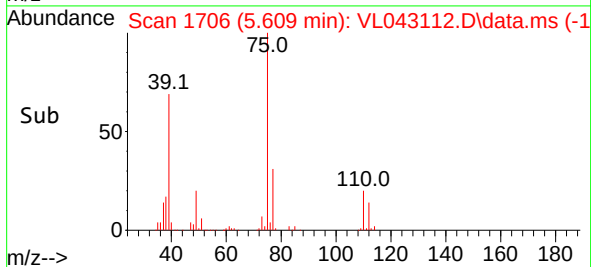
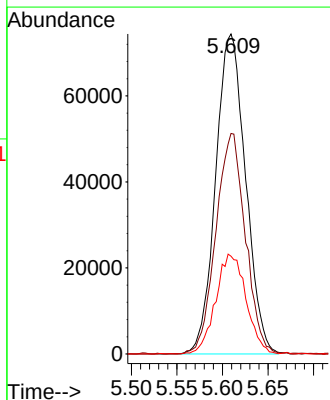
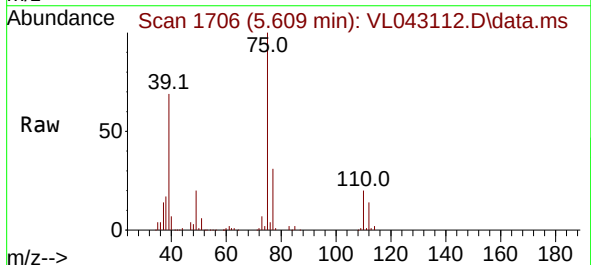
Manual Integrations
 APPROVED

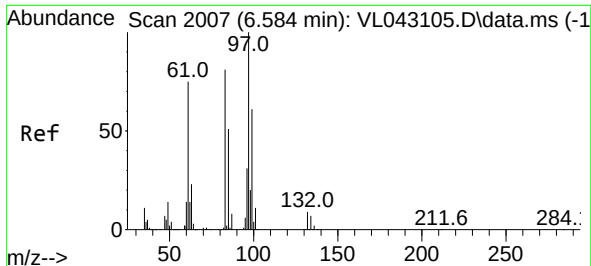
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025



#46
 cis-1,3-Dichloropropene
 Concen: 9.106 ppbv
 RT: 5.609 min Scan# 1706
 Delta R.T. 0.003 min
 Lab File: VL043112.D
 Acq: 14 Oct 2025 14:51

Tgt Ion: 75 Resp: 170038
 Ion Ratio Lower Upper
 75 100
 39 68.8 51.0 76.6
 77 30.5 25.0 37.4





#47

1,1,2-Trichloroethane

Concen: 9.000 ppbv

RT: 6.590 min Scan# 2007

Delta R.T. 0.006 min

Lab File: VL043112.D

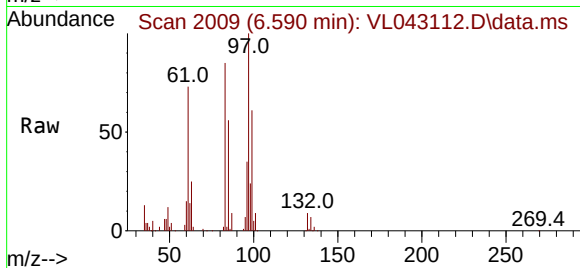
Acq: 14 Oct 2025 14:51

Instrument :

MSVOA_L

ClientSampleId :

ICVVL101425



Tgt Ion: 97 Resp: 10896

Ion Ratio Lower Upper

97 100

83 84.8 64.6 96.8

85 55.8 40.6 60.8

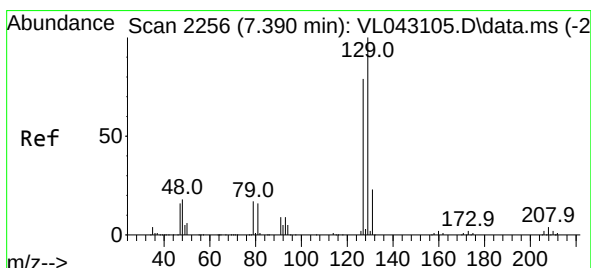
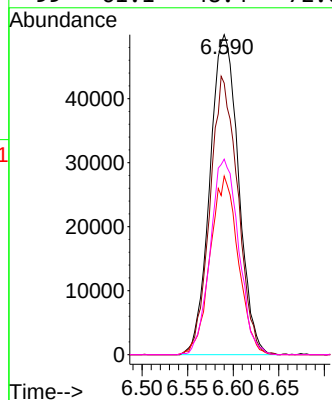
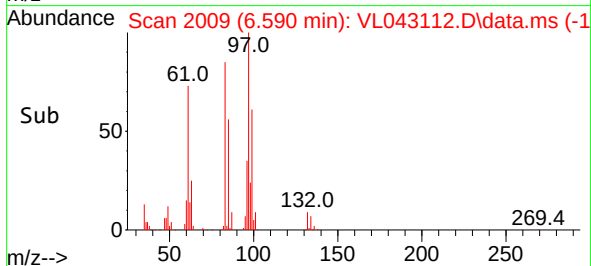
99 61.1 48.4 72.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#48

Dibromochloromethane

Concen: 9.127 ppbv

RT: 7.396 min Scan# 2258

Delta R.T. 0.006 min

Lab File: VL043112.D

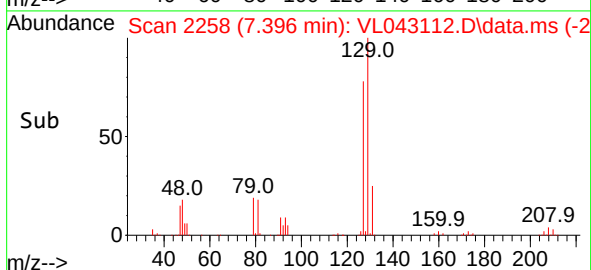
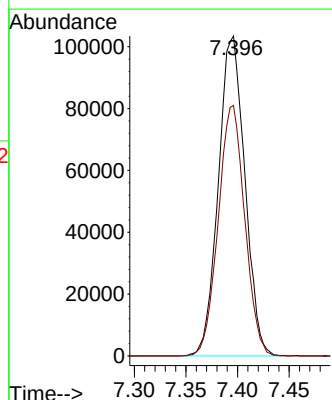
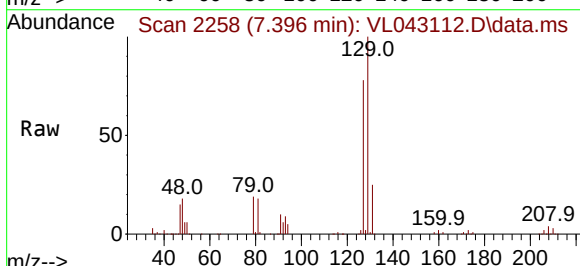
Acq: 14 Oct 2025 14:51

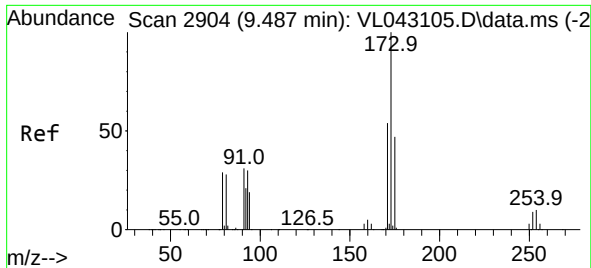
Tgt Ion:129 Resp: 184757

Ion Ratio Lower Upper

129 100

127 78.3 39.3 117.9





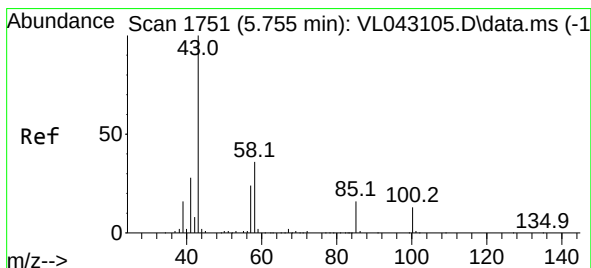
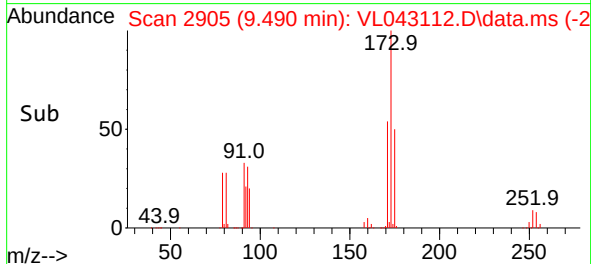
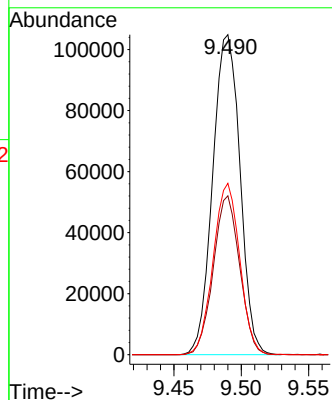
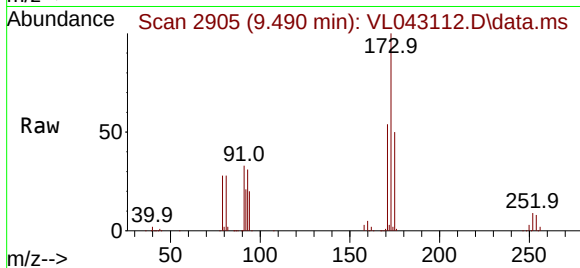
#49
Bromoform
Concen: 8.980 ppbv
RT: 9.490 min Scan# 2904
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Tgt Ion:173 Resp: 14775
Ion Ratio Lower Upper
173 100
175 48.0 38.8 58.2
171 52.1 41.7 62.5

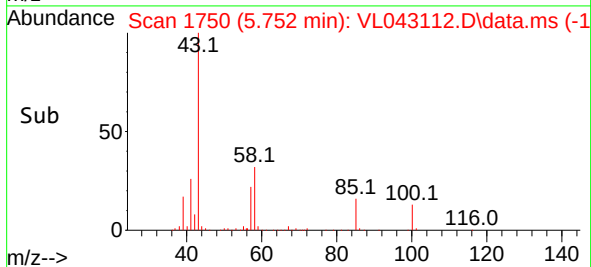
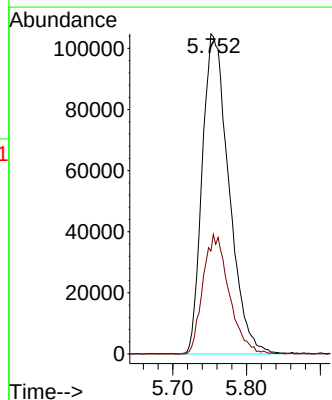
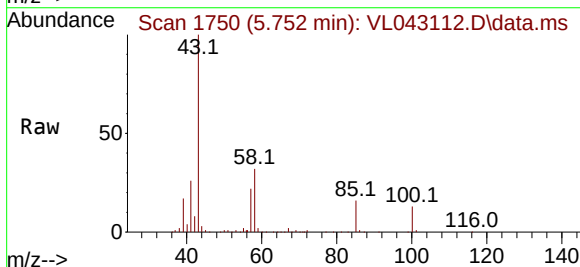
Manual Integrations
APPROVED

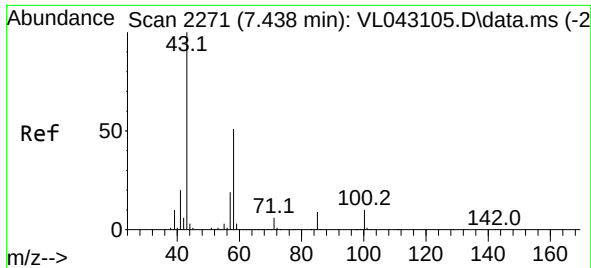
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#50
4-Methyl-2-Pentanone
Concen: 8.709 ppbv
RT: 5.752 min Scan# 1750
Delta R.T. -0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

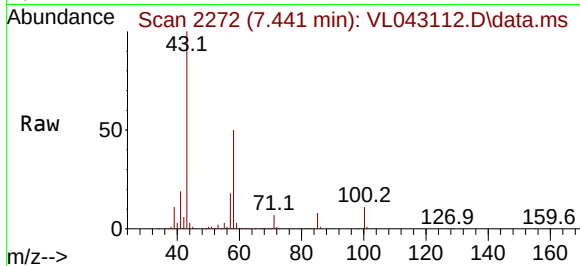
Tgt Ion: 43 Resp: 263070
Ion Ratio Lower Upper
43 100
58 36.6 29.1 43.7





#51
2-Hexanone
Concen: 8.999 ppbv
RT: 7.441 min Scan# 2111
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

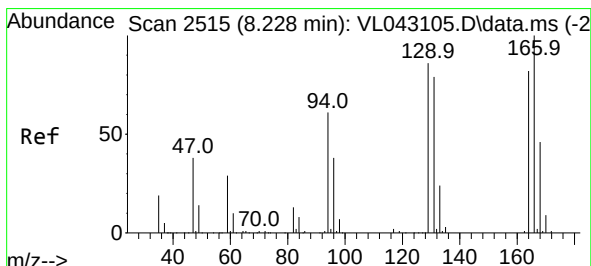
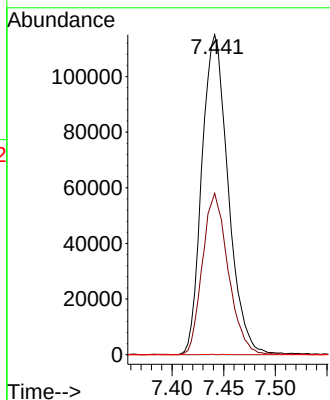
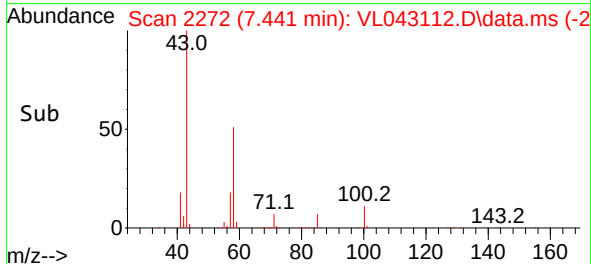
Instrument : MSVOA_L
ClientSampleId : ICVVL101425



Tgt Ion: 43 Resp: 203870
Ion Ratio Lower Upper
43 100
58 49.6 40.4 60.6
98 0.1 0.1 0.1

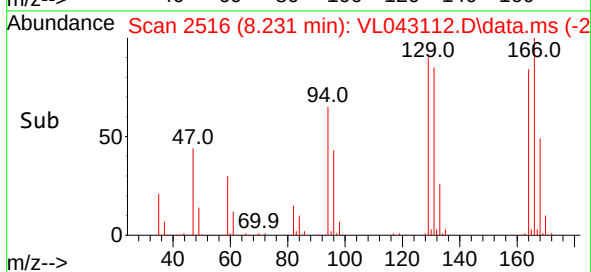
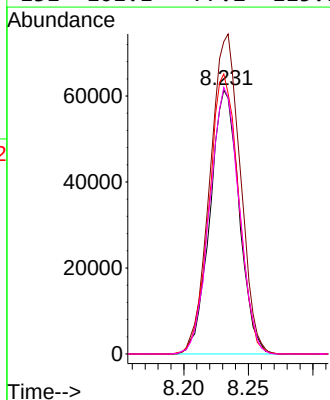
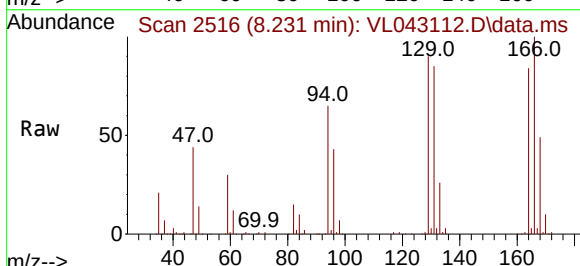
Manual Integrations
APPROVED

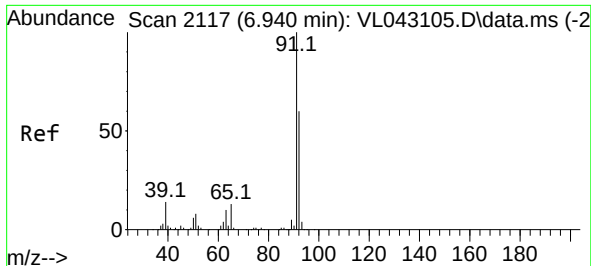
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#52
Tetrachloroethene
Concen: 8.681 ppbv
RT: 8.231 min Scan# 2516
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

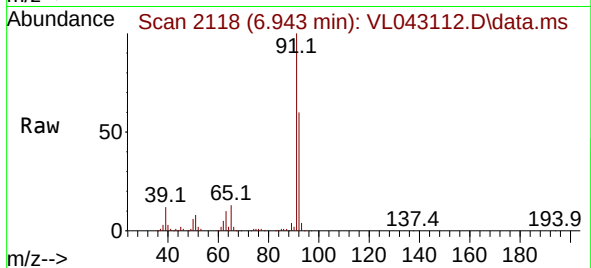
Tgt Ion:164 Resp: 96000
Ion Ratio Lower Upper
164 100
166 118.4 97.6 146.4
129 106.2 84.5 126.7
131 101.1 77.2 115.8





#53
Toluene
Concen: 8.928 ppbv
RT: 6.943 min Scan# 2117
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

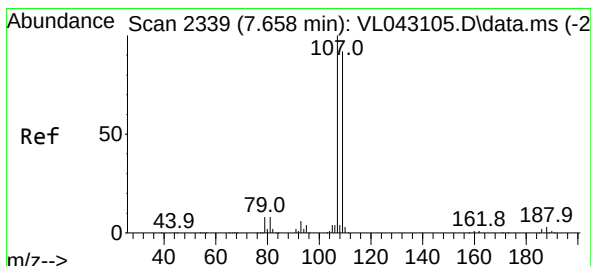
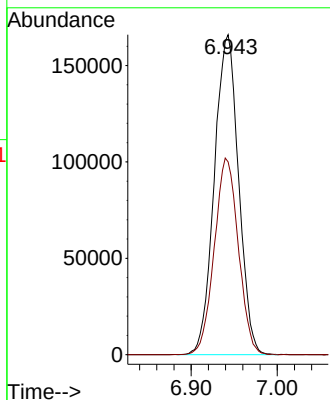
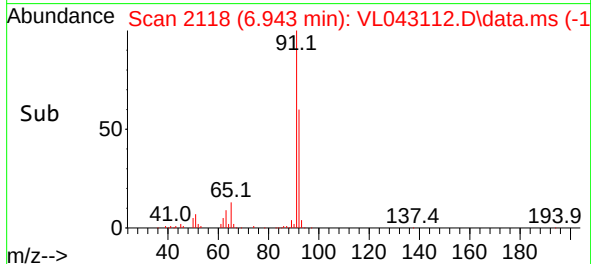
Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425



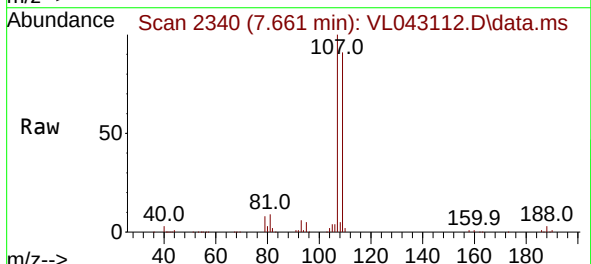
Tgt Ion: 91 Resp: 324944
Ion Ratio Lower Upper
91 100
92 61.0 48.8 73.2

Manual Integrations
APPROVED

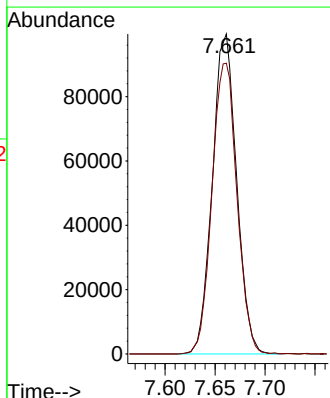
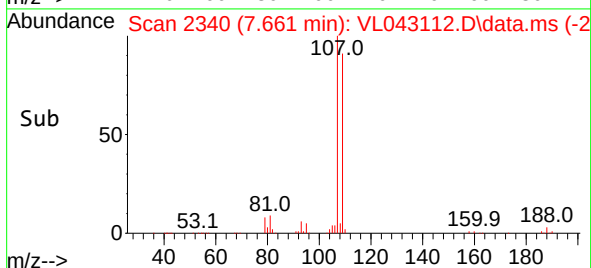
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

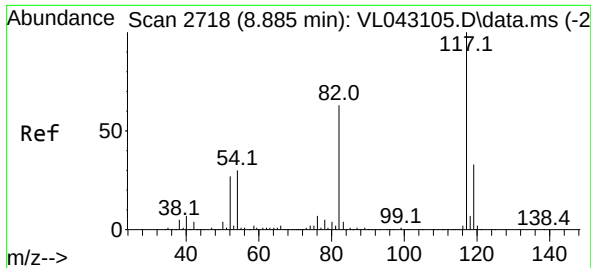


#54
1,2-Dibromoethane
Concen: 8.856 ppbv
RT: 7.661 min Scan# 2340
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51



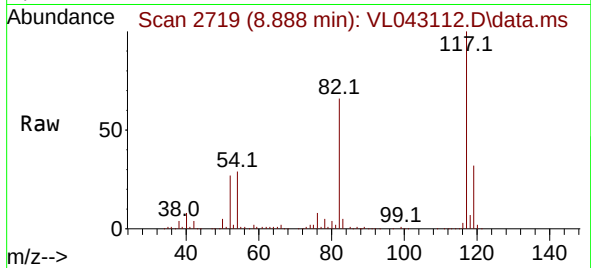
Tgt Ion:107 Resp: 167936
Ion Ratio Lower Upper
107 100
109 90.9 73.4 110.2





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2718
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

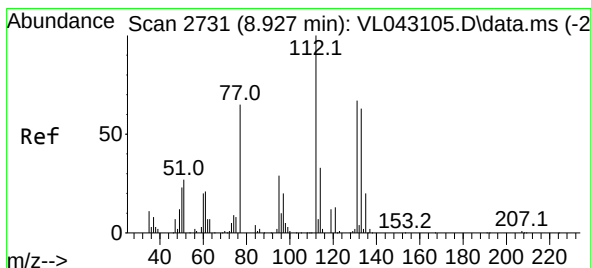
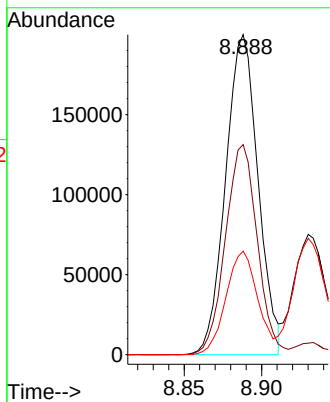
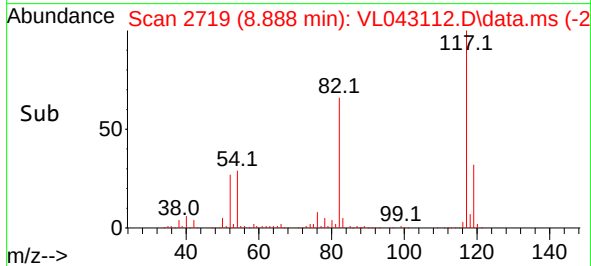
Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425



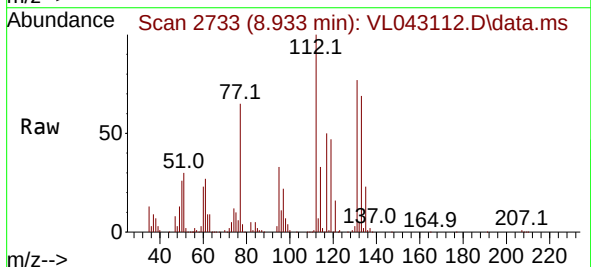
Tgt Ion:117 Resp: 291670
Ion Ratio Lower Upper
117 100
82 67.8 53.8 80.8
119 31.5 25.4 38.0

Manual Integrations
APPROVED

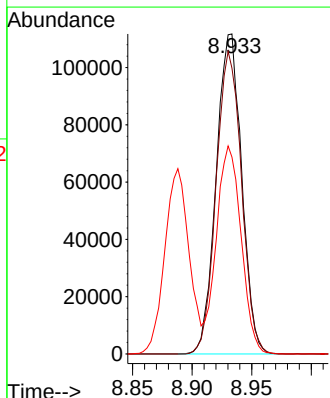
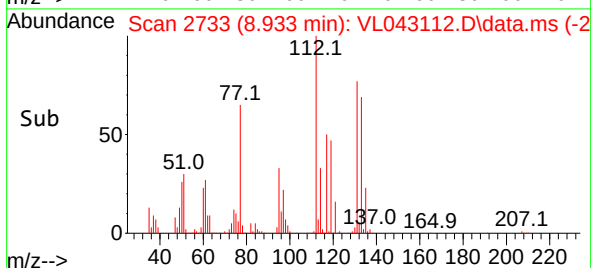
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

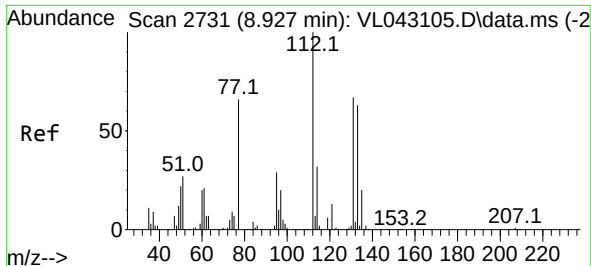


#56
1,1,1,2-Tetrachloroethane
Concen: 9.031 ppbv
RT: 8.933 min Scan# 2733
Delta R.T. 0.006 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51



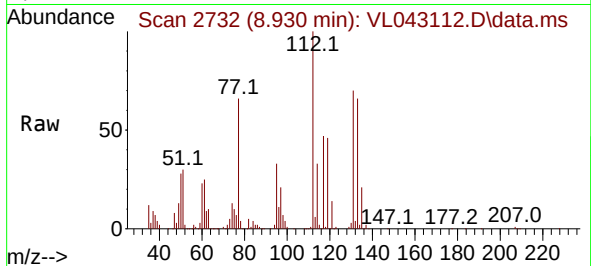
Tgt Ion:131 Resp: 166059
Ion Ratio Lower Upper
131 100
133 94.2 75.7 113.5
119 60.4 50.6 76.0





#57
Chlorobenzene
Concen: 8.770 ppbv
RT: 8.930 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

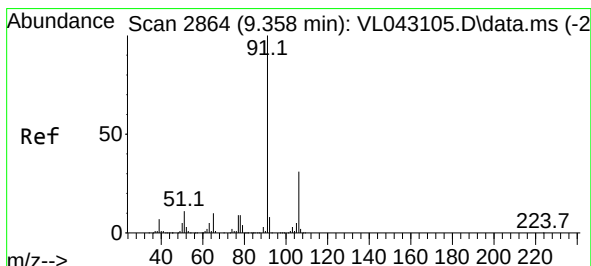
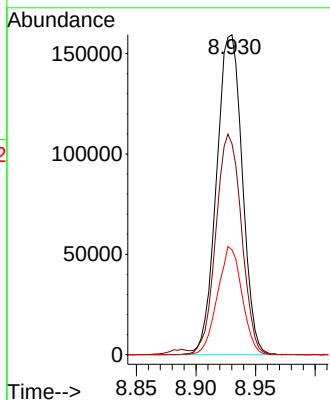
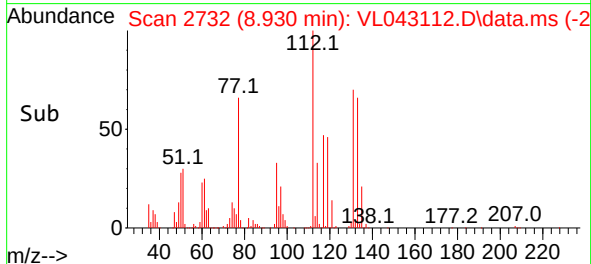
Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425



Tgt Ion:112 Resp: 239309
Ion Ratio Lower Upper
112 100
77 65.9 53.3 79.9
114 32.7 29.3 35.8

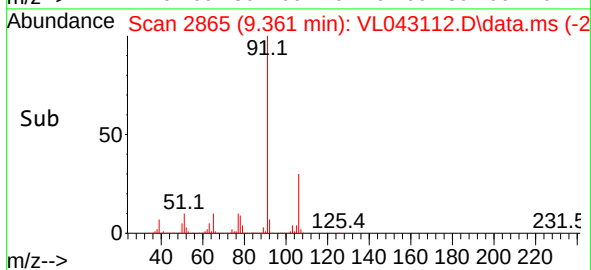
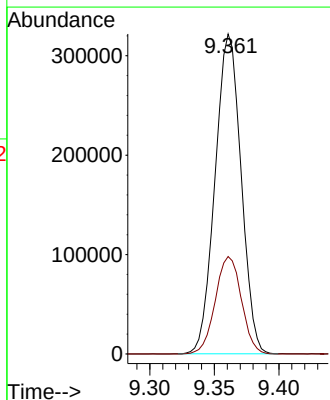
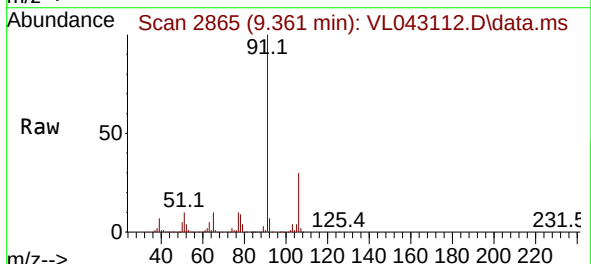
Manual Integrations
APPROVED

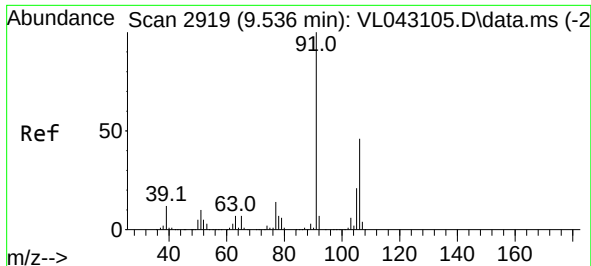
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#58
Ethyl Benzene
Concen: 8.990 ppbv
RT: 9.361 min Scan# 2865
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 91 Resp: 450029
Ion Ratio Lower Upper
91 100
106 30.5 24.8 37.2





#59

m/p-Xylene

Concen: 17.913 ppbv m

RT: 9.558 min Scan# 2919

Delta R.T. 0.022 min

Lab File: VL043112.D

Acq: 14 Oct 2025 14:51

Instrument :

MSVOA_L

ClientSampleId :

ICVVL101425

Tgt Ion: 91 Resp: 71519

Ion Ratio Lower Upper

91 100

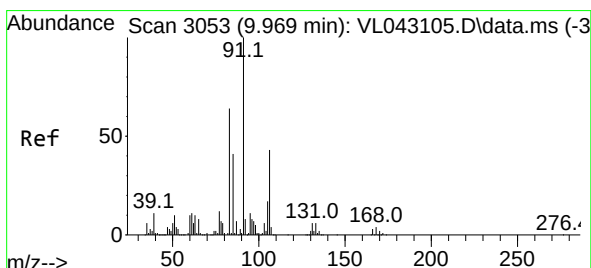
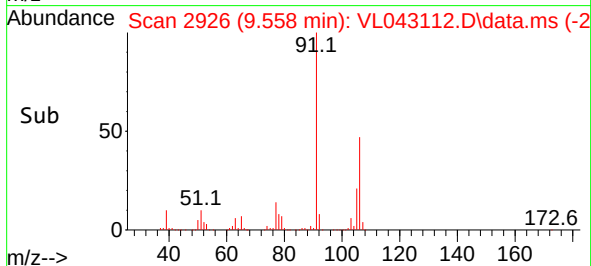
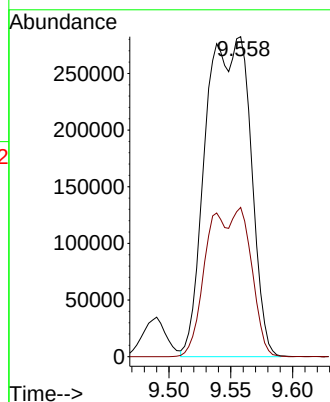
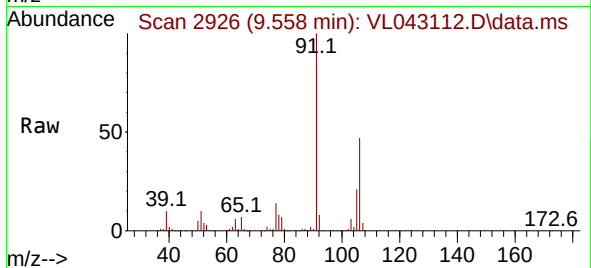
106 0.0 38.0 57.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#60

o-Xylene

Concen: 8.834 ppbv

RT: 9.969 min Scan# 3053

Delta R.T. -0.000 min

Lab File: VL043112.D

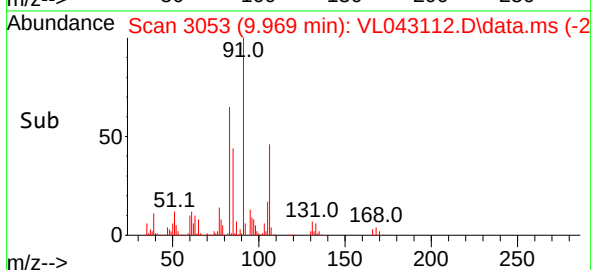
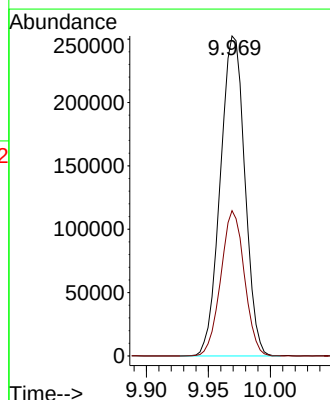
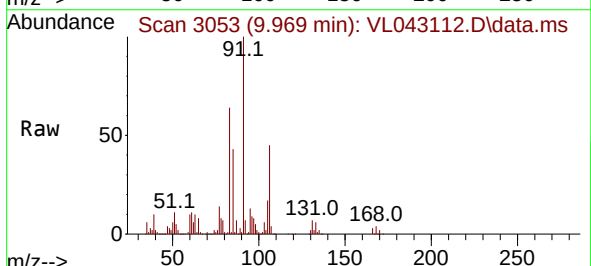
Acq: 14 Oct 2025 14:51

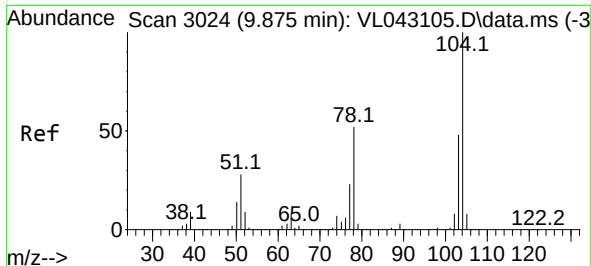
Tgt Ion: 91 Resp: 348346

Ion Ratio Lower Upper

91 100

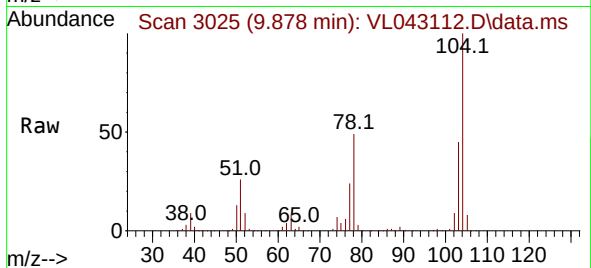
106 43.7 21.9 65.8





#61
Styrene
Concen: 9.099 ppbv
RT: 9.878 min Scan# 3024
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

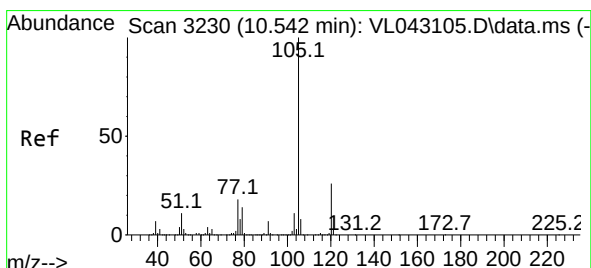
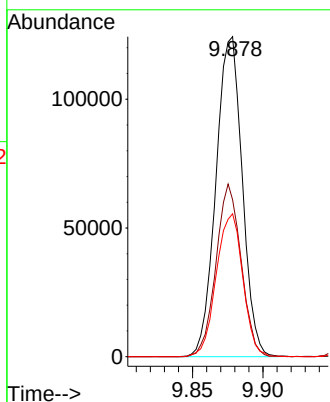
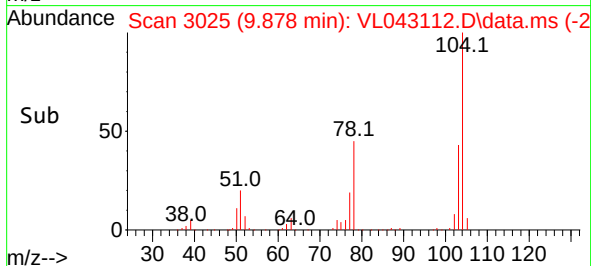
Instrument : MSVOA_L
ClientSampleId : ICVVL101425



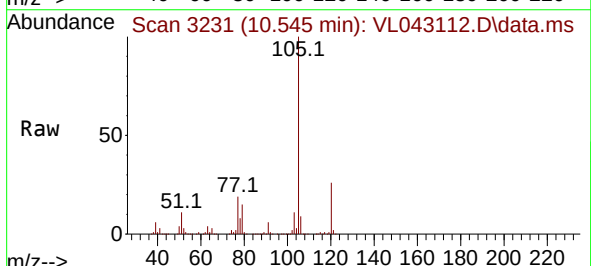
Tgt Ion:104 Resp: 161979
Ion Ratio Lower Upper
104 100
78 51.4 40.2 60.2
103 45.0 36.9 55.3

Manual Integrations
APPROVED

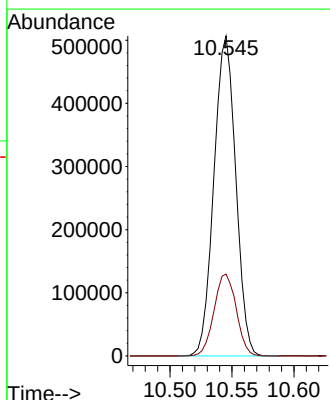
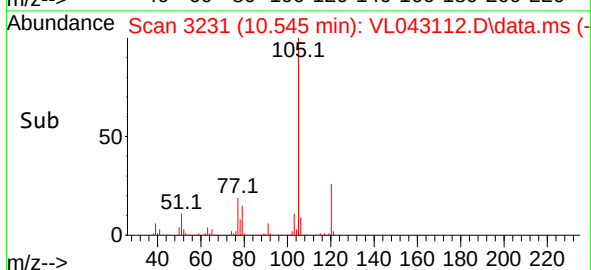
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

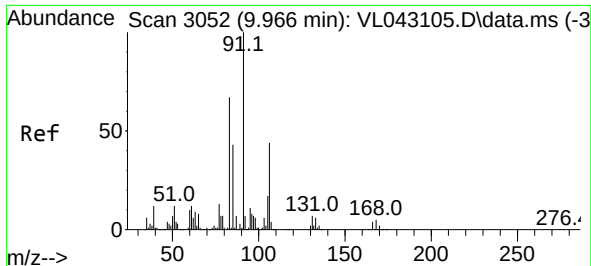


#62
Isopropylbenzene
Concen: 8.726 ppbv
RT: 10.545 min Scan# 3231
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51



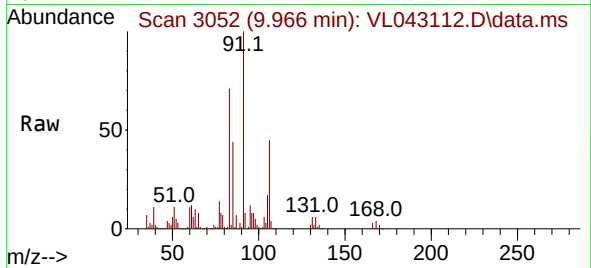
Tgt Ion:105 Resp: 621758
Ion Ratio Lower Upper
105 100
120 26.0 20.2 30.4





#63
1,1,2,2-Tetrachloroethane
Concen: 8.177 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

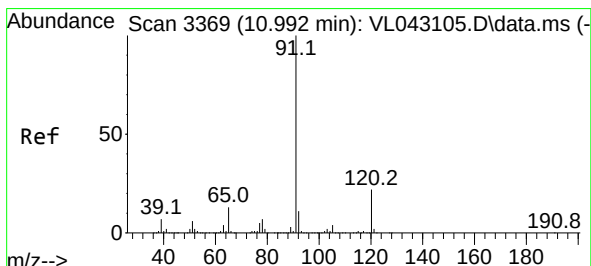
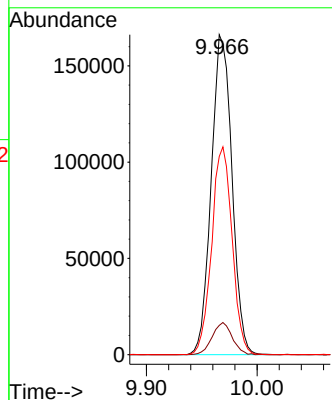
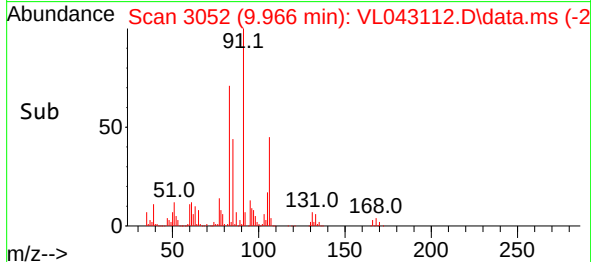
Instrument : MSVOA_L
ClientSampleId : ICVVL101425



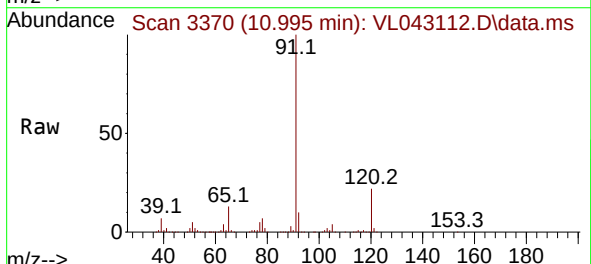
Tgt Ion: 83 Resp: 21591
Ion Ratio Lower Upper
83 100
131 9.7 4.8 14.3
85 64.1 32.0 96.0

Manual Integrations
APPROVED

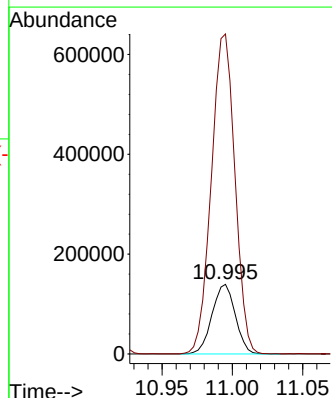
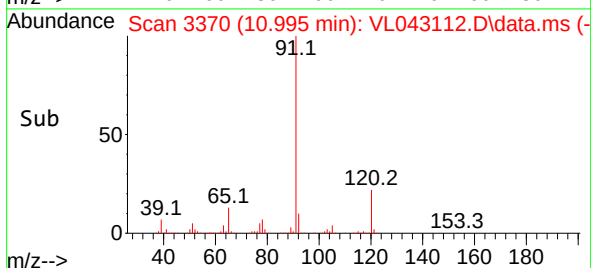
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

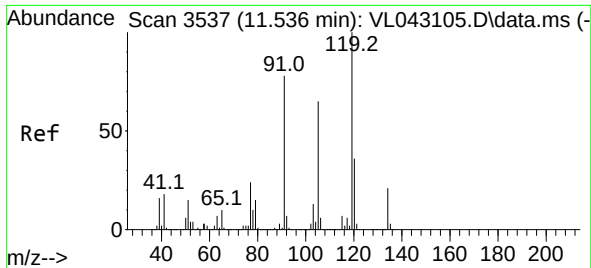


#64
n-propylbenzene
Concen: 8.503 ppbv
RT: 10.995 min Scan# 3370
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51



Tgt Ion:120 Resp: 160411
Ion Ratio Lower Upper
120 100
91 467.8 361.6 542.4





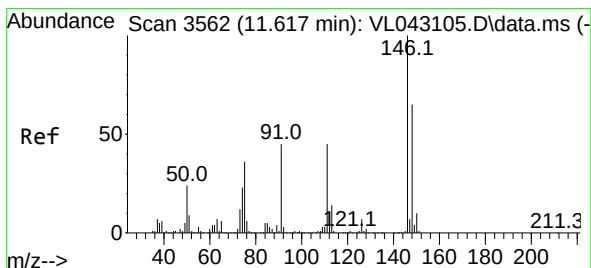
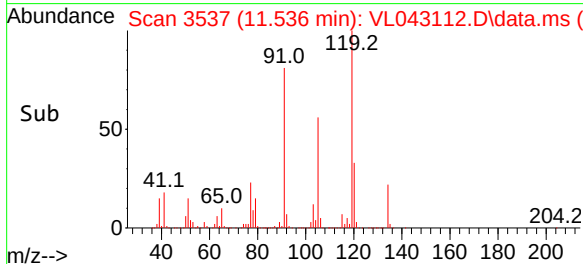
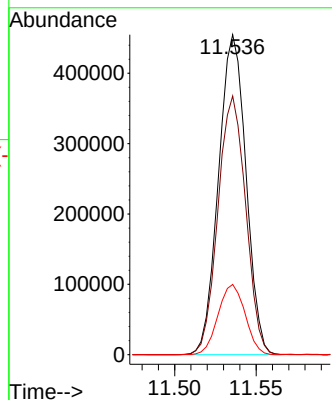
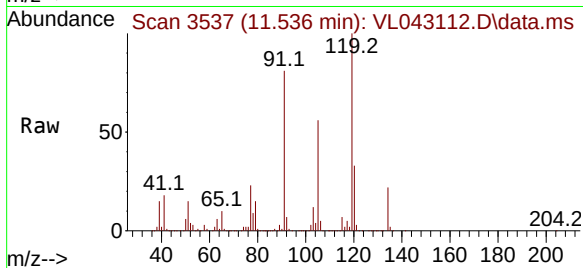
#65
tert-Butylbenzene
Concen: 8.464 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Tgt Ion: 119 Resp: 532570
Ion Ratio Lower Upper
119 100
91 81.6 63.4 95.0
134 21.6 17.3 25.9

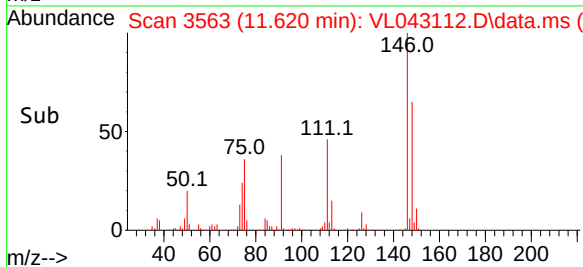
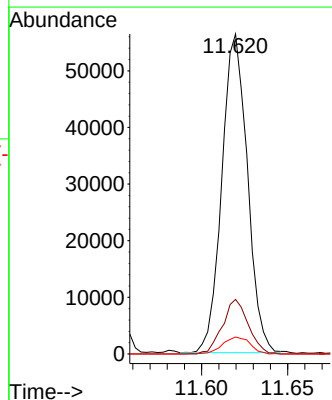
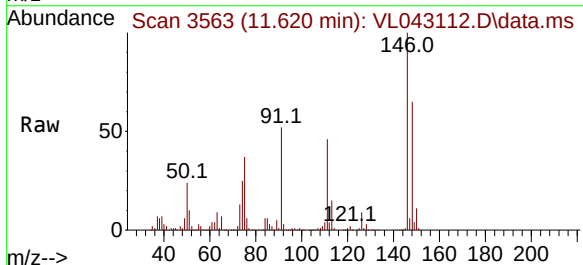
Manual Integrations
APPROVED

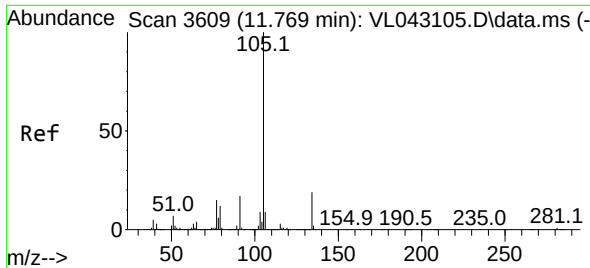
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#66
Benzyl Chloride
Concen: 8.306 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

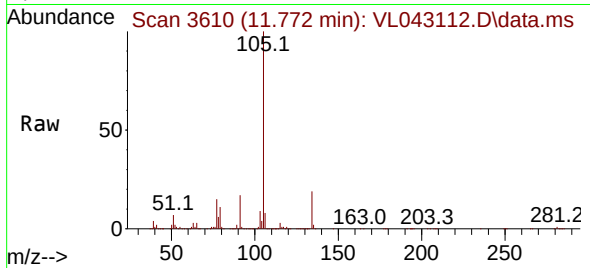
Tgt Ion: 91 Resp: 58169
Ion Ratio Lower Upper
91 100
126 17.2 14.6 22.0
128 5.8 4.6 6.8





#67
 sec-Butylbenzene
 Concen: 8.541 ppbv
 RT: 11.772 min Scan# 3610
 Delta R.T. 0.003 min
 Lab File: VL043112.D
 Acq: 14 Oct 2025 14:51

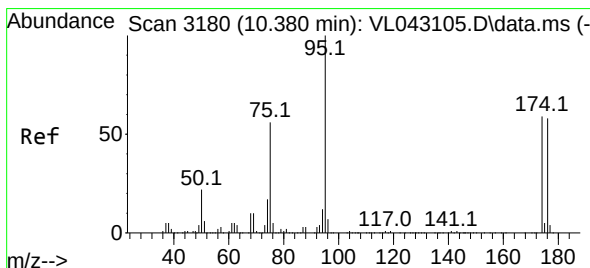
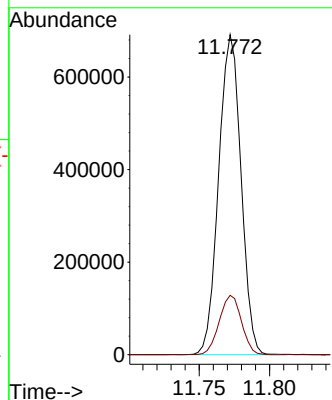
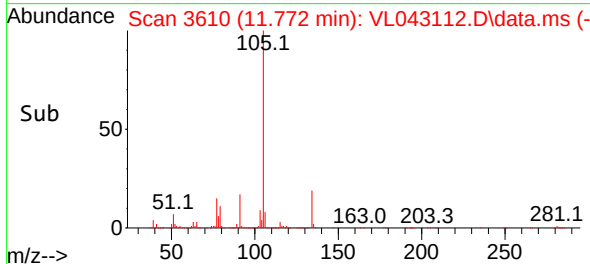
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL101425



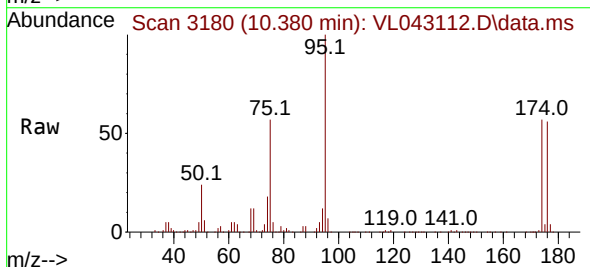
Tgt Ion:105 Resp: 76271
 Ion Ratio Lower Upper
 105 100
 134 18.5 15.5 23.3

Manual Integrations
 APPROVED

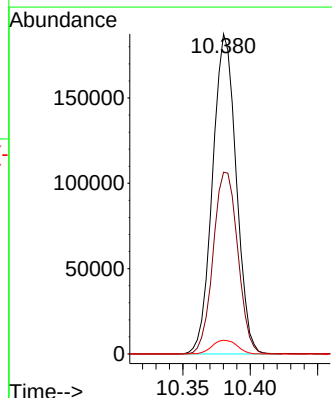
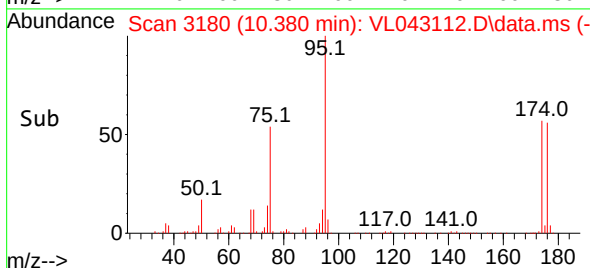
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/16/2025

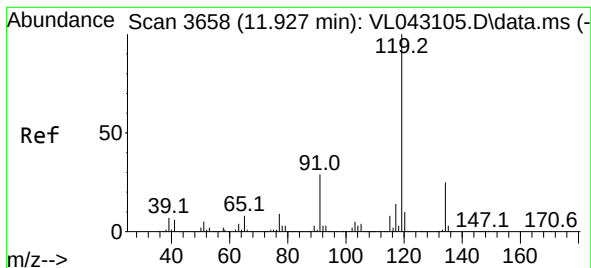


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.101 ppbv
 RT: 10.380 min Scan# 3180
 Delta R.T. -0.000 min
 Lab File: VL043112.D
 Acq: 14 Oct 2025 14:51



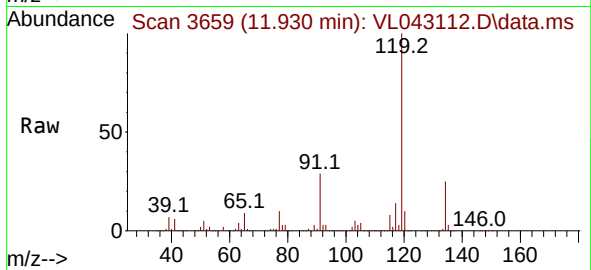
Tgt Ion: 95 Resp: 229010
 Ion Ratio Lower Upper
 95 100
 174 59.2 48.3 72.5
 175 4.6 3.8 5.8





#69
p-Isopropyltoluene
Concen: 8.411 ppbv
RT: 11.930 min Scan# 3659
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

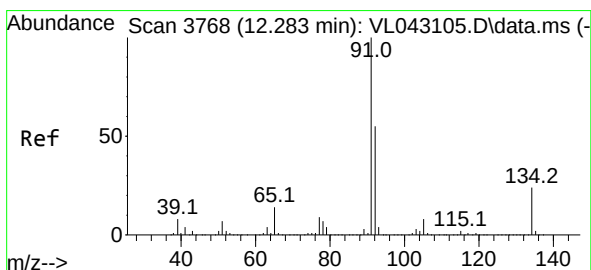
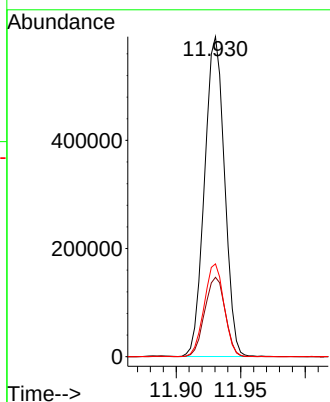
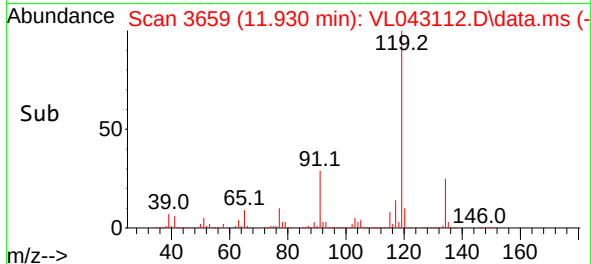
Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425



Tgt Ion: 119 Resp: 63826
Ion Ratio Lower Upper
119 100
134 25.4 20.3 30.5
91 29.0 22.6 33.8

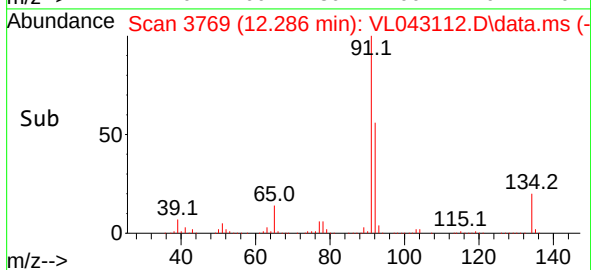
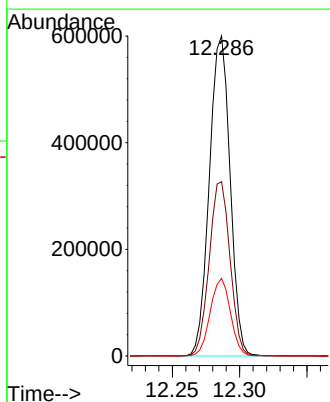
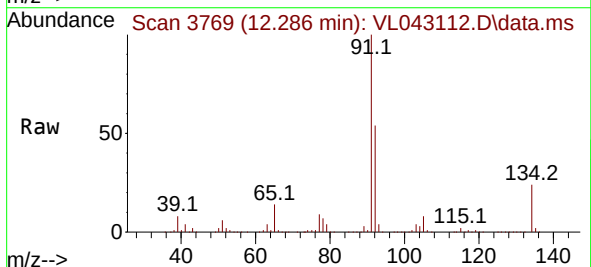
Manual Integrations
APPROVED

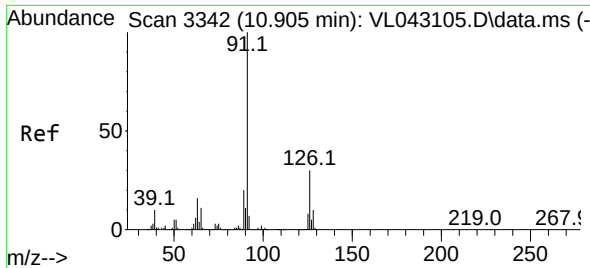
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#70
n-Butylbenzene
Concen: 8.579 ppbv
RT: 12.286 min Scan# 3769
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 91 Resp: 641547
Ion Ratio Lower Upper
91 100
92 54.8 44.5 66.7
134 23.7 19.3 28.9





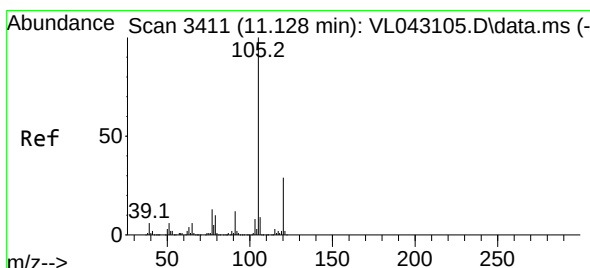
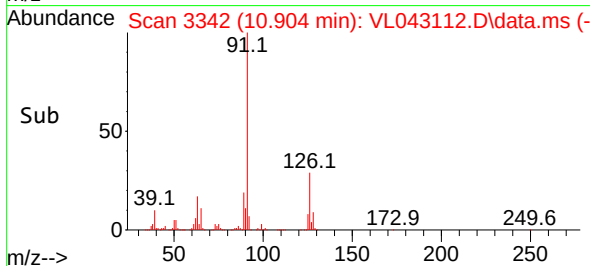
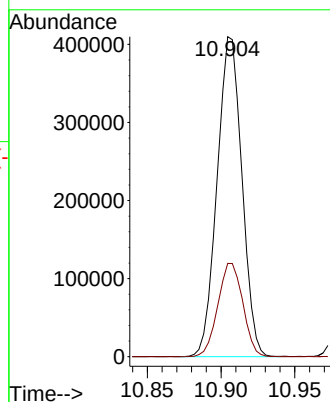
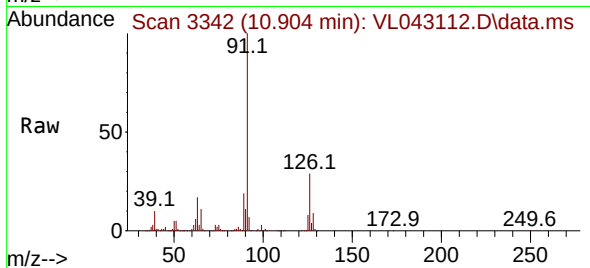
#71
2-Chlorotoluene
Concen: 8.828 ppbv
RT: 10.904 min Scan# 3342
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Instrument : MSVOA_L
ClientSampleId : ICVVL101425

Tgt Ion: 91 Resp: 479799
Ion Ratio Lower Upper
91 100
126 29.3 12.0 48.0

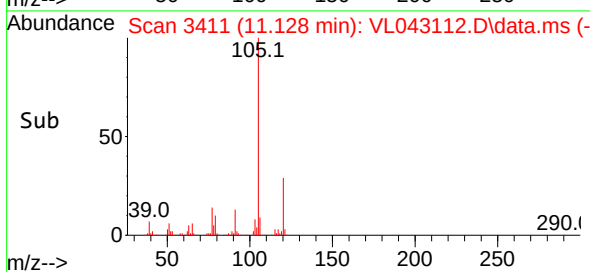
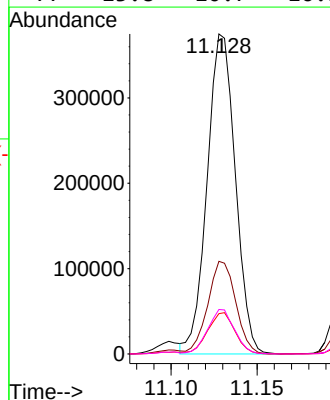
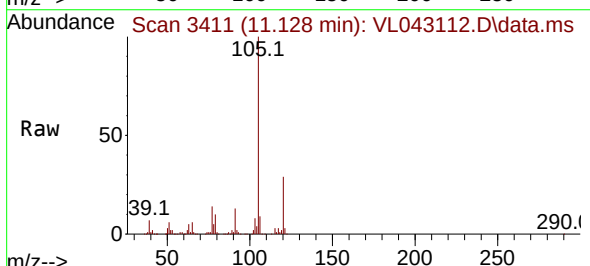
Manual Integrations
APPROVED

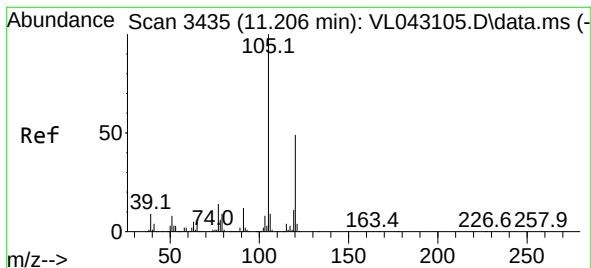
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#72
4-Ethyltoluene
Concen: 8.807 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion:105 Resp: 427034
Ion Ratio Lower Upper
105 100
120 29.8 24.2 36.4
91 13.1 10.0 15.0
77 13.8 10.7 16.1





#73

1,3,5-Trimethylbenzene

Concen: 8.874 ppbv

RT: 11.209 min Scan# 3435

Delta R.T. 0.003 min

Lab File: VL043112.D

Acq: 14 Oct 2025 14:51

Instrument :

MSVOA_L

ClientSampleId :

ICVVL101425

Tgt Ion:105 Resp: 35487

Ion Ratio Lower Upper

105 100

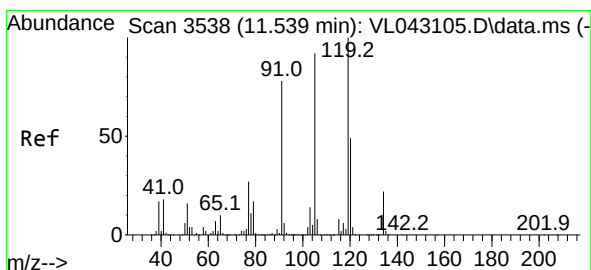
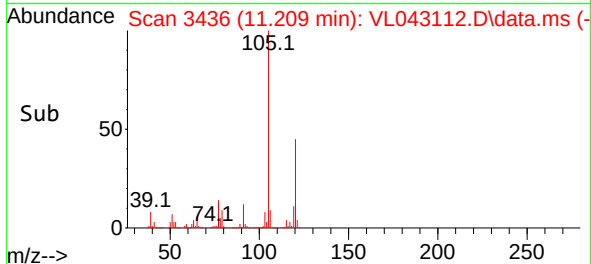
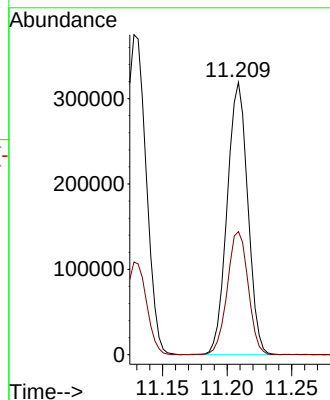
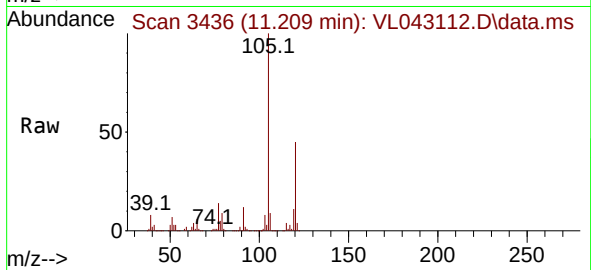
120 45.2 39.0 58.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#74

1,2,4-Trimethylbenzene

Concen: 8.324 ppbv

RT: 11.542 min Scan# 3539

Delta R.T. 0.003 min

Lab File: VL043112.D

Acq: 14 Oct 2025 14:51

Tgt Ion:105 Resp: 372506

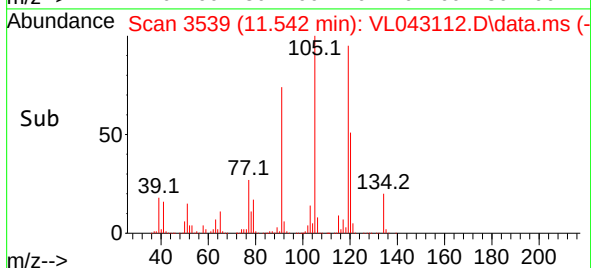
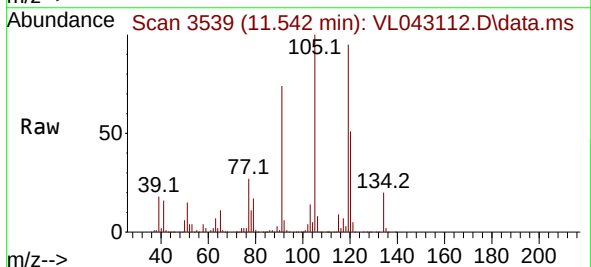
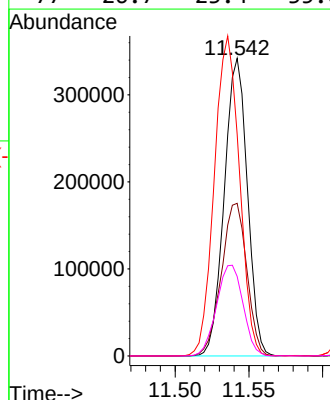
Ion Ratio Lower Upper

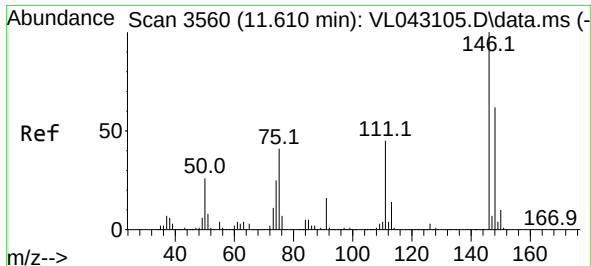
105 100

120 51.3 42.8 64.2

91 74.4 68.3 102.5

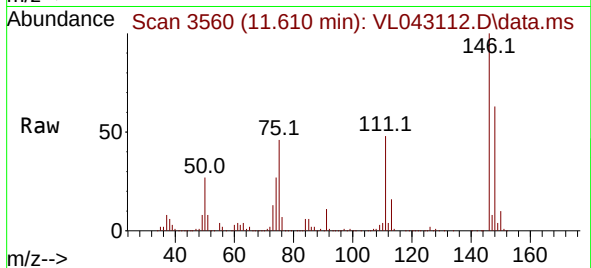
77 26.7 23.4 35.0





#75
1,3-Dichlorobenzene
Concen: 8.454 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

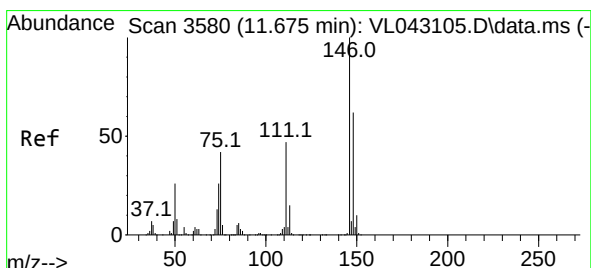
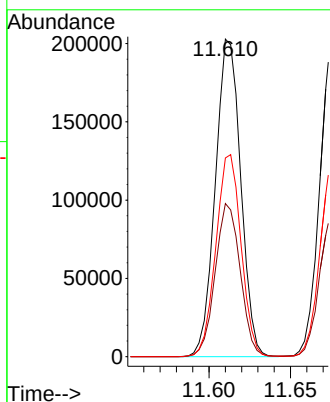
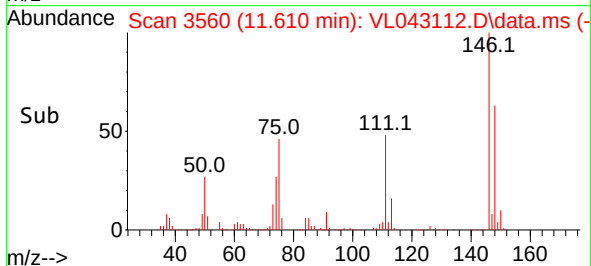
Instrument :
MSVOA_1
ClientSampleId :
ICVVL101425



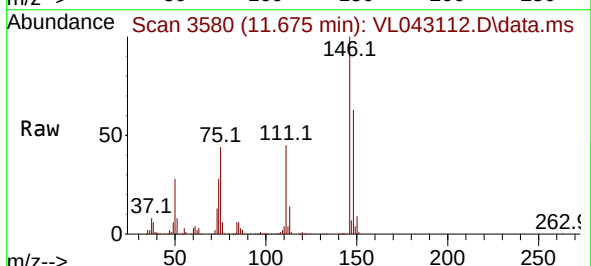
Tgt Ion:146 Resp: 21942
Ion Ratio Lower Upper
146 100
111 47.6 23.3 69.9
148 63.3 31.6 95.0

Manual Integrations
APPROVED

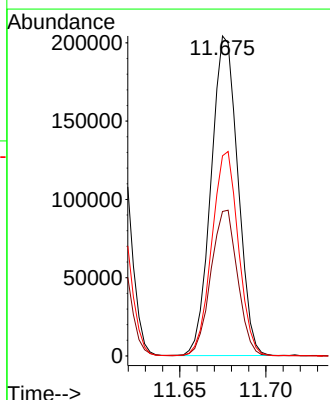
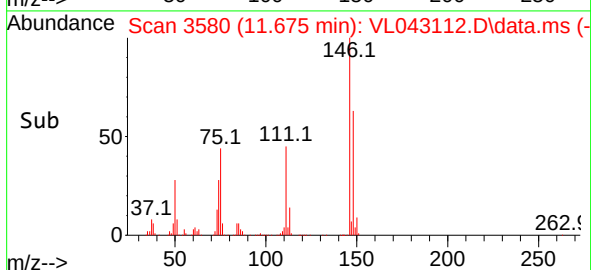
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

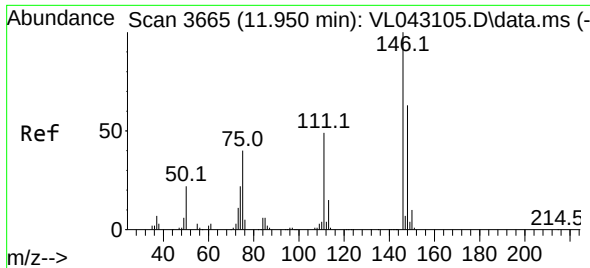


#76
1,4-Dichlorobenzene
Concen: 8.458 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51



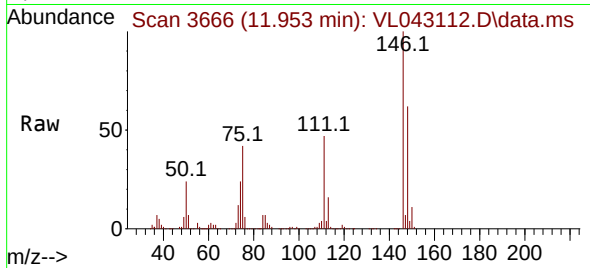
Tgt Ion:146 Resp: 221364
Ion Ratio Lower Upper
146 100
111 45.7 22.4 67.0
148 63.6 31.6 94.7





#77
1,2-Dichlorobenzene
Concen: 8.132 ppbv
RT: 11.953 min Scan# 3666
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

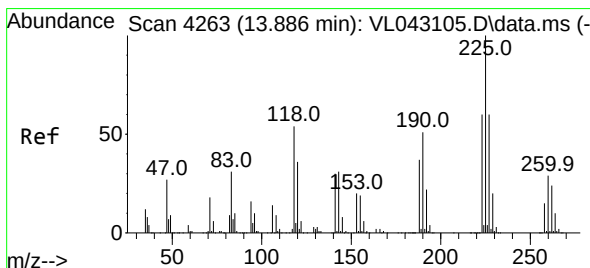
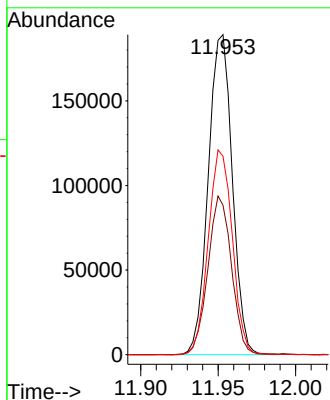
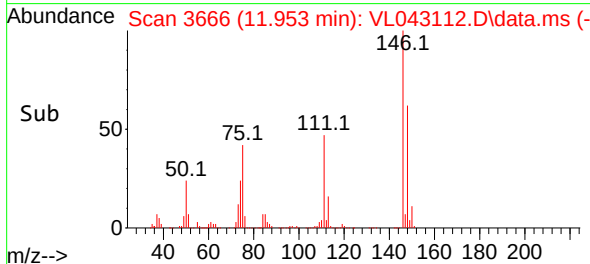
Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425



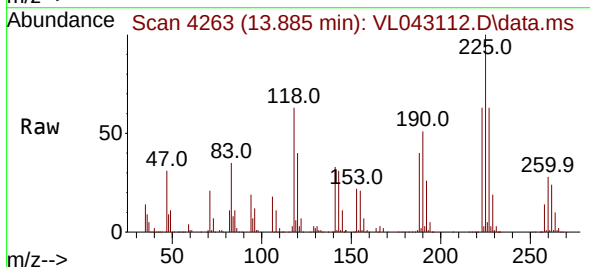
Tgt Ion:146 Resp: 204178
Ion Ratio Lower Upper
146 100
111 48.8 24.0 72.0
148 64.1 31.1 93.3

Manual Integrations
APPROVED

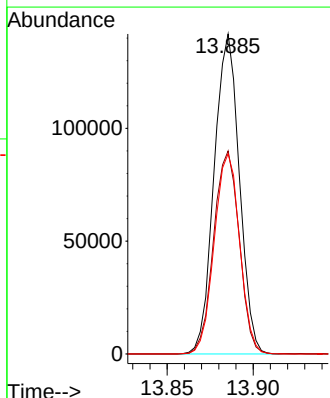
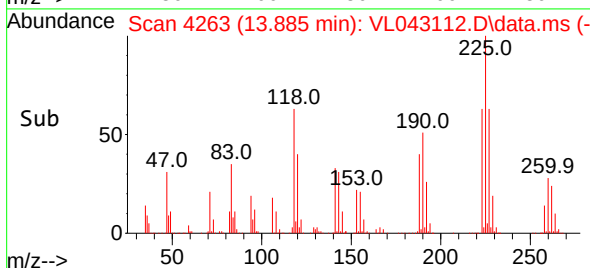
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

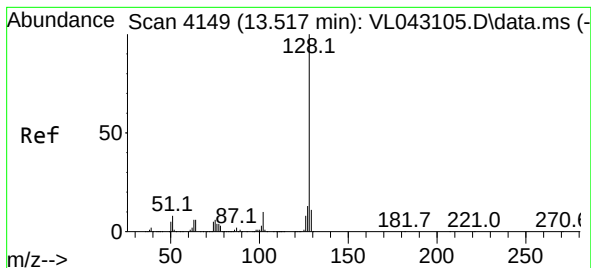


#78
Hexachloro-1,3-Butadiene
Concen: 7.440 ppbv
RT: 13.885 min Scan# 4263
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51



Tgt Ion:225 Resp: 144646
Ion Ratio Lower Upper
225 100
223 64.1 50.2 75.4
227 62.9 49.6 74.4





#79

Naphthalene

Concen: 8.334 ppbv

RT: 13.516 min Scan# 4149

Delta R.T. -0.000 min

Lab File: VL043112.D

Acq: 14 Oct 2025 14:51

Instrument :

MSVOA_L

ClientSampleId :

ICVVL101425

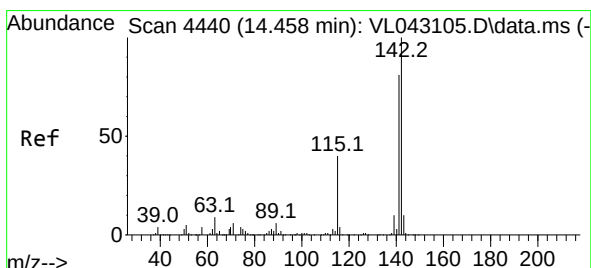
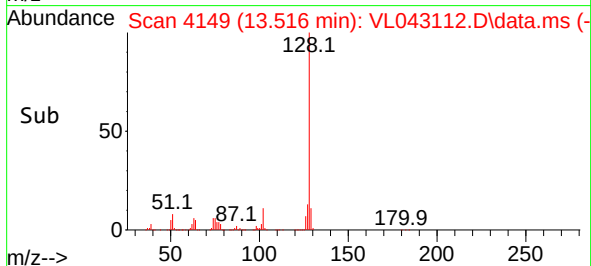
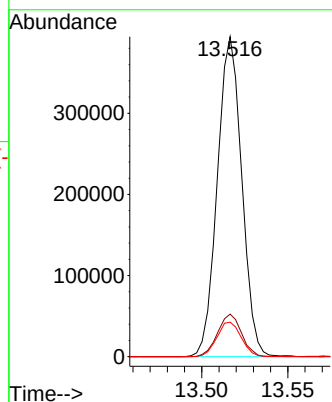
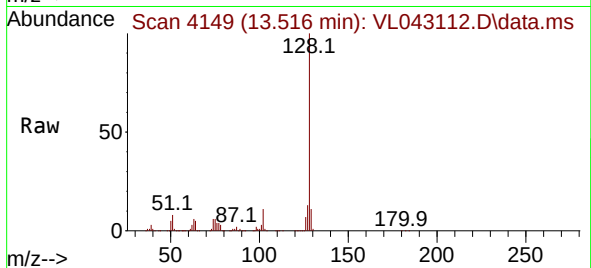
Tgt Ion:128 Resp: 389814

Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.5	15.7
129	10.8	9.1	13.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#80

Naphthalene,2-methyl-

Concen: 10.146 ppbv

RT: 14.458 min Scan# 4440

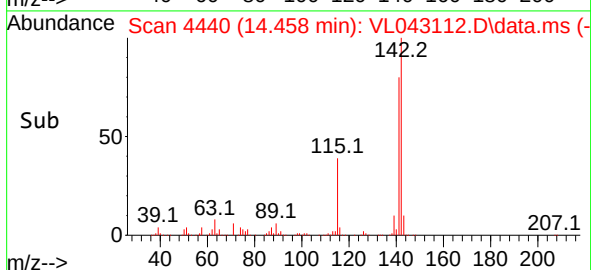
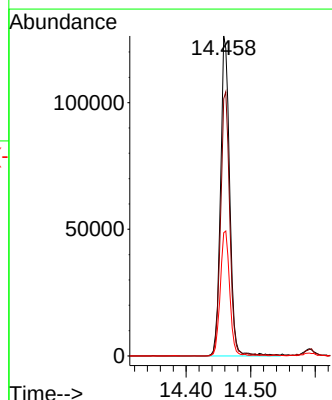
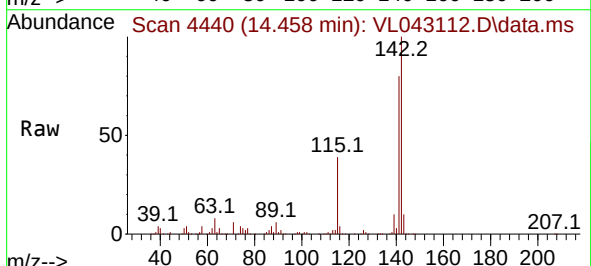
Delta R.T. -0.000 min

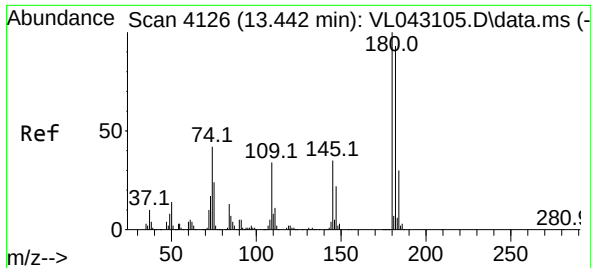
Lab File: VL043112.D

Acq: 14 Oct 2025 14:51

Tgt Ion:142 Resp: 123632

Ion	Ratio	Lower	Upper
142	100		
141	83.1	64.6	97.0
115	40.3	30.2	45.4





#81

1,2,4-Trichlorobenzene

Concen: 8.373 ppbv

RT: 13.445 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL043112.D

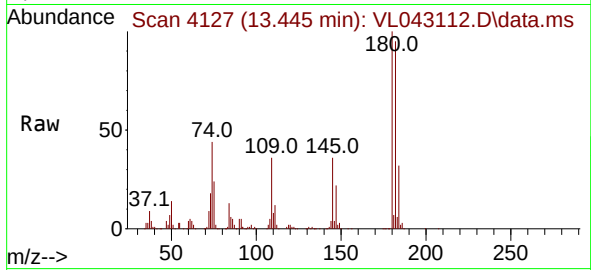
Acq: 14 Oct 2025 14:51

Instrument :

MSVOA_L

ClientSampleId :

ICVVL101425



Tgt Ion:180 Resp: 16255

Ion Ratio Lower Upper

180 100

182 96.1 75.5 113.3

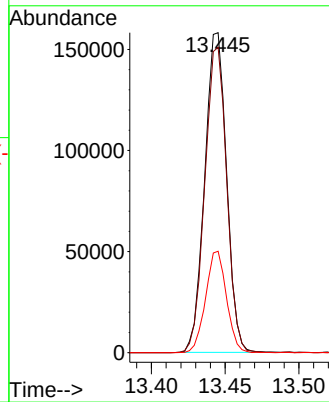
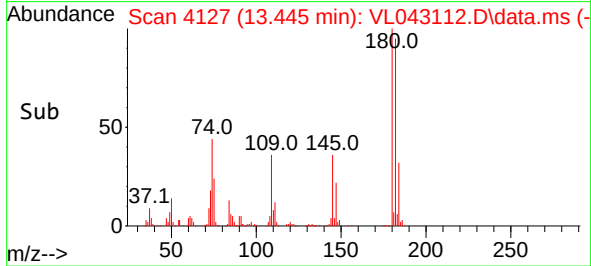
184 30.4 23.9 35.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
 Data File : VL043112.D
 Acq On : 14 Oct 2025 14:51
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL101425

Quant Time: Oct 15 02:14:28 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 02:12:58 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	94	0.00
2 T	Dichlorodifluoromethane	1.422	1.340	5.8	98	0.00
3	Chlorodifluoromethane	1.538	1.424	7.4	92	0.00
4	Chloromethane	0.563	0.499	11.4	94	0.00
5 T	Vinyl Chloride	0.552	0.482	12.7	94	0.00
6 T	Bromomethane	0.303	0.270	10.9	97	0.00
7	Chloroethane	0.226	0.196	13.3	96	0.00
8 T	Dichlorotetrafluoroethane	1.149	1.098	4.4	99	0.00
9 T	Propene	0.682	0.608	10.9	87	0.00
10 T	Heptane	1.964	1.695	13.7	88	0.00
11 T	Trichlorofluoromethane	1.391	1.358	2.4	103	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.120	1.050	6.3	101	0.00
13	Ethanol	0.252	0.181	28.2	88	0.00
14 T	Bromoethene	0.416	0.388	6.7	98	0.00
15 T	Acetone	1.348	1.107	17.9	95	0.00
16 T	1,3-Butadiene	0.642	0.569	11.4	97	0.00
17	tert-Butyl alcohol	1.850	1.667	9.9	93	0.00
18 T	1,1-Dichloroethene	0.488	0.477	2.3	102	0.00
19 T	Isopropyl Alcohol	0.839	0.692	17.5	90	0.00
20 T	Methylene Chloride	0.533	0.413	22.5	96	0.00
21 T	Allyl Chloride	0.993	0.912	8.2	94	0.00
22 T	trans-1,2-Dichloroethene	0.583	0.526	9.8	97	0.00
23 T	Vinyl Acetate	1.974	1.900	3.7	110	0.00
24 T	1,1-Dichloroethane	1.127	1.054	6.5	96	0.00
25 T	Ethyl Acetate	3.342	2.997	10.3	90	0.00
26 T	Hexane	1.540	1.388	9.9	93	0.00
27 T	Carbon Disulfide	1.411	1.343	4.8	96	0.00
28 T	Methyl tert-Butyl Ether	0.701	0.689	1.7	110	0.00
29 T	Chloroform	2.232	2.100	5.9	97	0.00
30 T	Cyclohexane	1.344	1.223	9.0	95	0.00
31 T	cis-1,2-Dichloroethene	1.471	1.409	4.2	94	0.00
32 T	1,1,1-Trichloroethane	2.324	2.246	3.4	99	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	95	0.00
34 T	2-Butanone	0.672	0.580	13.7	91	0.00
35 T	Carbon Tetrachloride	0.719	0.669	7.0	98	0.00
36 T	Benzene	0.942	0.855	9.2	94	0.00
37 T	1,2-Dichloroethane	0.543	0.497	8.5	97	0.00
38 T	Trichloroethene	0.393	0.332	15.5	93	0.00
39 T	1,2-Dichloropropane	0.344	0.309	10.2	93	0.00
40 T	1,4-Dioxane	0.154	0.127	17.5	86	0.00
41 T	Tetrahydrofuran	0.376	0.322	14.4	89	0.00
42 T	Bromodichloromethane	0.751	0.701	6.7	96	0.00
43	Methyl Methacrylate	0.478	0.426	10.9	90	0.00
44 T	2,2,4-Trimethylpentane	1.589	1.389	12.6	91	0.00
45 T	t-1,3-Dichloropropene	0.480	0.439	8.5	91	0.00
46 T	cis-1,3-Dichloropropene	0.573	0.522	8.9	91	0.00
47 T	1,1,2-Trichloroethane	0.372	0.335	9.9	94	0.00
48 T	Dibromochloromethane	0.622	0.567	8.8	92	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
 Data File : VL043112.D
 Acq On : 14 Oct 2025 14:51
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL101425

Quant Time: Oct 15 02:14:28 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 02:12:58 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	0.505	0.454	10.1	89	0.00
50 T	4-Methyl-2-Pentanone	0.928	0.808	12.9	88	0.00
51 T	2-Hexanone	0.696	0.626	10.1	86	0.00
52 T	Tetrachloroethene	0.340	0.295	13.2	90	0.00
53 T	Toluene	1.118	0.998	10.7	92	0.00
54 T	1,2-Dibromoethane	0.582	0.516	11.3	92	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	94	0.00
56	1,1,1,2-Tetrachloroethane	0.630	0.569	9.7	91	0.00
57 T	Chlorobenzene	0.936	0.820	12.4	91	0.00
58 T	Ethyl Benzene	1.716	1.543	10.1	91	0.00
59 T	m/p-Xylene	1.369	1.226	10.4	93	0.02
60 T	o-Xylene	1.352	1.194	11.7	92	0.00
61 T	Styrene	0.610	0.555	9.0	91	0.00
62	Isopropylbenzene	2.443	2.132	12.7	90	0.00
63 T	1,1,2,2-Tetrachloroethane	0.905	0.740	18.2	90	0.00
64	n-propylbenzene	0.647	0.550	15.0	88	0.00
65	tert-Butylbenzene	2.157	1.826	15.3	91	0.00
66 T	Benzyl Chloride	0.240	0.199	17.1	78	0.00
67	sec-Butylbenzene	3.062	2.615	14.6	91	0.00
68 S	1-Bromo-4-Fluorobenzene	0.777	0.785	-1.0	95	0.00
69	p-Isopropyltoluene	2.602	2.188	15.9	89	0.00
70	n-Butylbenzene	2.564	2.200	14.2	89	0.00
71	2-Chlorotoluene	1.863	1.645	11.7	91	0.00
72 T	4-Ethyltoluene	1.662	1.464	11.9	90	0.00
73 T	1,3,5-Trimethylbenzene	1.371	1.217	11.2	91	0.00
74 T	1,2,4-Trimethylbenzene	1.534	1.277	16.8	90	0.00
75 T	1,3-Dichlorobenzene	0.890	0.752	15.5	87	0.00
76 T	1,4-Dichlorobenzene	0.897	0.759	15.4	87	0.00
77 T	1,2-Dichlorobenzene	0.861	0.700	18.7	86	0.00
78 T	Hexachloro-1,3-Butadiene	0.667	0.496	25.6	84	0.00
79 T	Naphthalene	1.604	1.336	16.7	80	0.00
80 T	Naphthalene,2-methyl-	0.418	0.424	-1.4	84	0.00
81 T	1,2,4-Trichlorobenzene	0.666	0.557	16.4	82	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
 Data File : VL043112.D
 Acq On : 14 Oct 2025 14:51
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL101425

Quant Time: Oct 15 02:14:28 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 02:12:58 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	10.000	10.000	0.0	94	0.00
2 T	Dichlorodifluoromethane	10.000	9.425	5.7	98	0.00
3	Chlorodifluoromethane	10.000	9.260	7.4	92	0.00
4	Chloromethane	10.000	8.867	11.3	94	0.00
5 T	Vinyl Chloride	10.000	8.722	12.8	94	0.00
6 T	Bromomethane	10.000	8.901	11.0	97	0.00
7	Chloroethane	10.000	8.685	13.1	96	0.00
8 T	Dichlorotetrafluoroethane	10.000	9.558	4.4	99	0.00
9 T	Propene	10.000	8.908	10.9	87	0.00
10 T	Heptane	10.000	8.629	13.7	88	0.00
11 T	Trichlorofluoromethane	10.000	9.762	2.4	103	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	9.380	6.2	101	0.00
13	Ethanol	10.000	7.173	28.3	88	0.00
14 T	Bromoethene	10.000	9.324	6.8	98	0.00
15 T	Acetone	10.000	8.214	17.9	95	0.00
16 T	1,3-Butadiene	10.000	8.855	11.4	97	0.00
17	tert-Butyl alcohol	10.000	9.012	9.9	93	0.00
18 T	1,1-Dichloroethene	10.000	9.774	2.3	102	0.00
19 T	Isopropyl Alcohol	10.000	8.248	17.5	90	0.00
20 T	Methylene Chloride	10.000	7.757	22.4	96	0.00
21 T	Allyl Chloride	10.000	9.181	8.2	94	0.00
22 T	trans-1,2-Dichloroethene	10.000	9.011	9.9	97	0.00
23 T	Vinyl Acetate	10.000	9.621	3.8	110	0.00
24 T	1,1-Dichloroethane	10.000	9.355	6.4	96	0.00
25 T	Ethyl Acetate	10.000	8.966	10.3	90	0.00
26 T	Hexane	10.000	9.015	9.8	93	0.00
27 T	Carbon Disulfide	10.000	9.520	4.8	96	0.00
28 T	Methyl tert-Butyl Ether	10.000	9.839	1.6	110	0.00
29 T	Chloroform	10.000	9.412	5.9	97	0.00
30 T	Cyclohexane	10.000	9.096	9.0	95	0.00
31 T	cis-1,2-Dichloroethene	10.000	9.580	4.2	94	0.00
32 T	1,1,1-Trichloroethane	10.000	9.666	3.3	99	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	95	0.00
34 T	2-Butanone	10.000	8.624	13.8	91	0.00
35 T	Carbon Tetrachloride	10.000	9.298	7.0	98	0.00
36 T	Benzene	10.000	9.077	9.2	94	0.00
37 T	1,2-Dichloroethane	10.000	9.156	8.4	97	0.00
38 T	Trichloroethene	10.000	8.453	15.5	93	0.00
39 T	1,2-Dichloropropane	10.000	8.971	10.3	93	0.00
40 T	1,4-Dioxane	10.000	8.265	17.3	86	0.00
41 T	Tetrahydrofuran	10.000	8.553	14.5	89	0.00
42 T	Bromodichloromethane	10.000	9.336	6.6	96	0.00
43	Methyl Methacrylate	10.000	8.898	11.0	90	0.00
44 T	2,2,4-Trimethylpentane	10.000	8.738	12.6	91	0.00
45 T	t-1,3-Dichloropropene	10.000	9.146	8.5	91	0.00
46 T	cis-1,3-Dichloropropene	10.000	9.106	8.9	91	0.00
47 T	1,1,2-Trichloroethane	10.000	9.000	10.0	94	0.00
48 T	Dibromochloromethane	10.000	9.127	8.7	92	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
 Data File : VL043112.D
 Acq On : 14 Oct 2025 14:51
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL101425

Quant Time: Oct 15 02:14:28 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 02:12:58 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	8.980	10.2	89	0.00
50 T	4-Methyl-2-Pentanone	10.000	8.709	12.9	88	0.00
51 T	2-Hexanone	10.000	8.999	10.0	86	0.00
52 T	Tetrachloroethene	10.000	8.681	13.2	90	0.00
53 T	Toluene	10.000	8.928	10.7	92	0.00
54 T	1,2-Dibromoethane	10.000	8.856	11.4	92	0.00
55 I	Chlorobenzene-d5	10.000	10.000	0.0	94	0.00
56	1,1,1,2-Tetrachloroethane	10.000	9.031	9.7	91	0.00
57 T	Chlorobenzene	10.000	8.770	12.3	91	0.00
58 T	Ethyl Benzene	10.000	8.990	10.1	91	0.00
59 T	m/p-Xylene	20.000	17.913	10.4	93	0.02
60 T	o-Xylene	10.000	8.834	11.7	92	0.00
61 T	Styrene	10.000	9.099	9.0	91	0.00
62	Isopropylbenzene	10.000	8.726	12.7	90	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	8.177	18.2	90	0.00
64	n-propylbenzene	10.000	8.503	15.0	88	0.00
65	tert-Butylbenzene	10.000	8.464	15.4	91	0.00
66 T	Benzyl Chloride	10.000	8.306	16.9	78	0.00
67	sec-Butylbenzene	10.000	8.541	14.6	91	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	10.101	-1.0	95	0.00
69	p-Isopropyltoluene	10.000	8.411	15.9	89	0.00
70	n-Butylbenzene	10.000	8.579	14.2	89	0.00
71	2-Chlorotoluene	10.000	8.828	11.7	91	0.00
72 T	4-Ethyltoluene	10.000	8.807	11.9	90	0.00
73 T	1,3,5-Trimethylbenzene	10.000	8.874	11.3	91	0.00
74 T	1,2,4-Trimethylbenzene	10.000	8.324	16.8	90	0.00
75 T	1,3-Dichlorobenzene	10.000	8.454	15.5	87	0.00
76 T	1,4-Dichlorobenzene	10.000	8.458	15.4	87	0.00
77 T	1,2-Dichlorobenzene	10.000	8.132	18.7	86	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	7.440	25.6	84	0.00
79 T	Naphthalene	10.000	8.334	16.7	80	0.00
80 T	Naphthalene,2-methyl-	10.000	10.146	-1.5	84	0.00
81 T	1,2,4-Trichlorobenzene	10.000	8.373	16.3	82	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>ALLI03</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3247</u>
Instrument ID:	<u>MSVOA_L</u>	Calibration Date/Time:	<u>10/15/2025 08:43</u>
Lab File ID:	<u>VL043114.D</u>	Init. Calib. Date(s):	<u>10/14/2025 10/14/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Init. Calib. Time(s):	<u>10:31 14:18</u>
GC Column:	<u>RTX-1</u>	ID:	<u>0.32</u> (mm)

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Chloroethane	0.226	0.195		-13.72	30
Heptane	1.964	1.654		-15.78	30
Bromodichloromethane	0.751	0.731		-2.66	30
m/p-Xylene	1.369	1.221		-10.81	30
1-Bromo-4-Fluorobenzene	0.777	0.786		1.16	30

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101525\
 Data File : VL043114.D
 Acq On : 15 Oct 2025 08:43
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/17/2025

Quant Time: Oct 16 01:13:46 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

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

QLast Update : Wed Oct 15 02:12:58 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	98213	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	316115	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	288868	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 227182 10.118 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.200%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	134418	9.627	ppbv	97
3) Chlorodifluoromethane	1.479	51	135903	8.996	ppbv	98
4) Chloromethane	1.534	50	48684	8.801	ppbv	98
5) Vinyl Chloride	1.583	62	48129	8.871	ppbv	98
6) Bromomethane	1.670	94	27602	9.278	ppbv	99
7) Chloroethane	1.706	64	19136	8.627	ppbv	95
8) Dichlorotetrafluoroethane	1.557	85	109293	9.685	ppbv	99
9) Propene	1.486	41	56522	8.436	ppbv	98
10) Heptane	4.988	43	162470	8.423	ppbv	99
11) Trichlorofluoromethane	1.881	101	142862	10.460	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.143	101	109181	9.930	ppbv	100
13) Ethanol	1.722	45	18366	7.411	ppbv	96
14) Bromoethene	1.784	108	40048	9.804	ppbv	99
15) Acetone	1.835	43	113033	8.539	ppbv	99
16) 1,3-Butadiene	1.612	39	56426	8.944	ppbv	97
17) tert-Butyl alcohol	2.039	59	174816	9.621	ppbv	99
18) 1,1-Dichloroethene	2.036	96	48563	10.131	ppbv	85
19) Isopropyl Alcohol	1.887	45	72396	8.781	ppbv	98
20) Methylene Chloride	2.065	84	42819	8.183	ppbv	97
21) Allyl Chloride	2.101	41	91089	9.338	ppbv	95
22) trans-1,2-Dichloroethene	2.344	96	55471	9.681	ppbv	96
23) Vinyl Acetate	2.463	43	178708	9.216	ppbv	98
24) 1,1-Dichloroethane	2.411	63	109016	9.847	ppbv	99
25) Ethyl Acetate	2.835	43	290447	8.848	ppbv	99
26) Hexane	2.832	57	132602	8.766	ppbv	99
27) Carbon Disulfide	2.156	76	135963	9.810	ppbv #	88
28) Methyl tert-Butyl Ether	2.441	73	63933	9.290	ppbv	97
29) Chloroform	2.852	83	207291	9.458	ppbv	99
30) Cyclohexane	3.861	84	117130	8.872	ppbv	95
31) cis-1,2-Dichloroethene	2.725	61	137958	9.551	ppbv	95
32) 1,1,1-Trichloroethane	3.373	97	221109	9.688	ppbv	98
34) 2-Butanone	2.557	43	189478	8.917	ppbv	98
35) Carbon Tetrachloride	3.768	117	220510	9.702	ppbv	95
36) Benzene	3.661	78	280028	9.405	ppbv	98
37) 1,2-Dichloroethane	3.224	62	163041	9.506	ppbv	98
38) Trichloroethene	4.554	130	106893	8.597	ppbv	98
39) 1,2-Dichloropropane	4.318	63	98585	9.057	ppbv	93
40) 1,4-Dioxane	4.580	88	44526	9.142	ppbv #	93
41) Tetrahydrofuran	3.056	42	102758	8.646	ppbv	97
42) Bromodichloromethane	4.493	83	231006	9.731	ppbv	97
43) Methyl Methacrylate	4.881	69	137710	9.107	ppbv	97
44) 2,2,4-Trimethylpentane	4.645	57	444749	8.854	ppbv	99
45) t-1,3-Dichloropropene	6.418	75	143812	9.477	ppbv	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101525\
 Data File : VL043114.D
 Acq On : 15 Oct 2025 08:43
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/17/2025

Quant Time: Oct 16 01:13:46 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

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

QLast Update : Wed Oct 15 02:12:58 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.603	75	168699	9.306	ppbv	95
47) 1,1,2-Trichloroethane	6.583	97	107487	9.145	ppbv	98
48) Dibromochloromethane	7.389	129	186784	9.504	ppbv	100
49) Bromoform	9.487	173	152127	9.523	ppbv	99
50) 4-Methyl-2-Pentanone	5.752	43	256116	8.734	ppbv	99
51) 2-Hexanone	7.438	43	199219	9.057	ppbv	99
52) Tetrachloroethene	8.231	164	94700	8.820	ppbv	96
53) Toluene	6.940	91	318262	9.007	ppbv	100
54) 1,2-Dibromoethane	7.658	107	169023	9.181	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.927	131	165210	9.073	ppbv	99
57) Chlorobenzene	8.927	112	236465	8.750	ppbv	99
58) Ethyl Benzene	9.357	91	448315	9.043	ppbv	98
59) m/p-Xylene	9.555	91	705380m	17.839	ppbv	
60) o-Xylene	9.969	91	344891	8.831	ppbv	99
61) Styrene	9.875	104	158625	8.997	ppbv	99
62) Isopropylbenzene	10.542	105	619844	8.784	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.966	83	219643	8.399	ppbv	99
64) n-propylbenzene	10.992	120	161656	8.652	ppbv	95
65) tert-Butylbenzene	11.536	119	525334	8.430	ppbv	96
66) Benzyl Chloride	11.620	91	59531	8.583	ppbv	100
67) sec-Butylbenzene	11.772	105	760584	8.600	ppbv	98
69) p-Isopropyltoluene	11.927	119	639817	8.513	ppbv	99
70) n-Butylbenzene	12.283	91	653616	8.825	ppbv	99
71) 2-Chlorotoluene	10.904	91	483141	8.976	ppbv	99
72) 4-Ethyltoluene	11.128	105	427201	8.896	ppbv	98
73) 1,3,5-Trimethylbenzene	11.205	105	354264	8.945	ppbv	95
74) 1,2,4-Trimethylbenzene	11.539	105	378357	8.537	ppbv	95
75) 1,3-Dichlorobenzene	11.610	146	220714	8.587	ppbv	99
76) 1,4-Dichlorobenzene	11.675	146	226777	8.750	ppbv	99
77) 1,2-Dichlorobenzene	11.950	146	210381	8.460	ppbv	98
78) Hexachloro-1,3-Butadiene	13.885	225	149878	7.784	ppbv	98
79) Naphthalene	13.516	128	427928	9.238	ppbv	99
80) Naphthalene,2-methyl-	14.458	142	123398	10.225	ppbv	96
81) 1,2,4-Trichlorobenzene	13.442	180	168975	8.789	ppbv	99

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

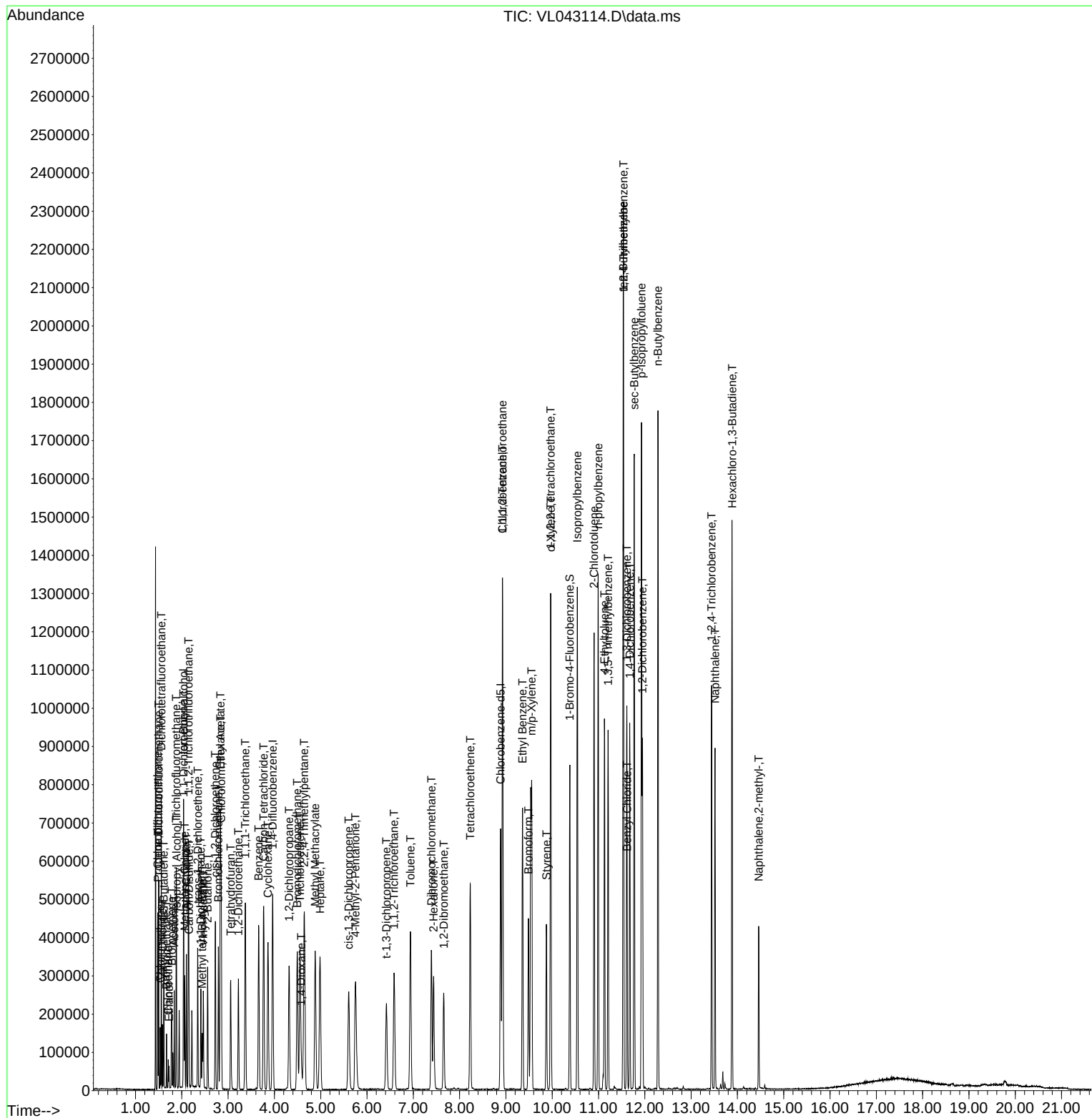
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101525\
 Data File : VL043114.D
 Acq On : 15 Oct 2025 08:43
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

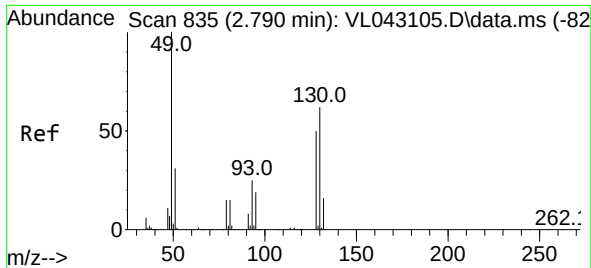
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/17/2025

Quant Time: Oct 16 01:13:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
 QLast Update : Wed Oct 15 02:12:58 2025
 Response via : Initial Calibration





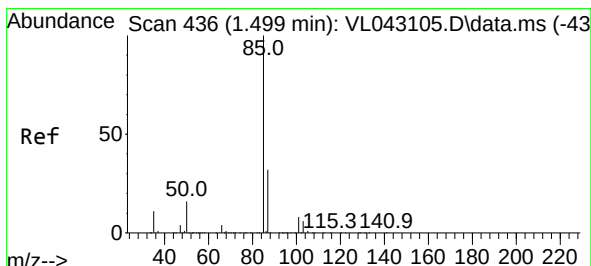
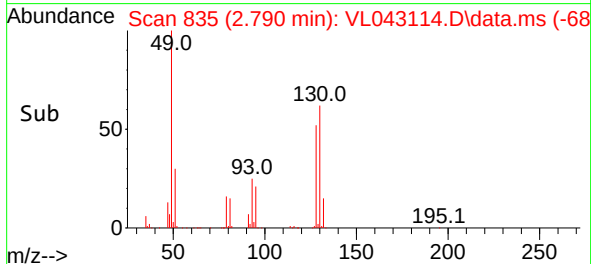
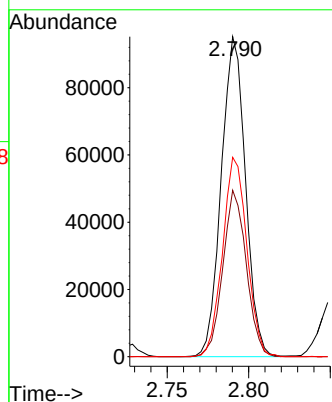
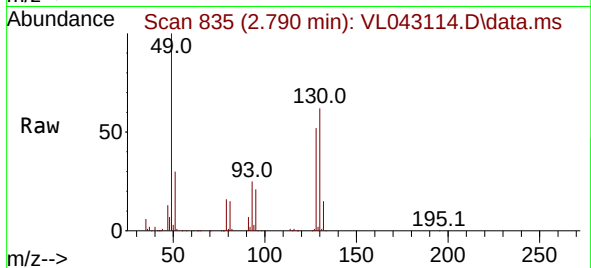
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 835
Delta R.T. 0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 49 Resp: 9821
Ion Ratio Lower Upper
49 100
128 50.4 24.4 73.4
130 62.6 31.0 93.0

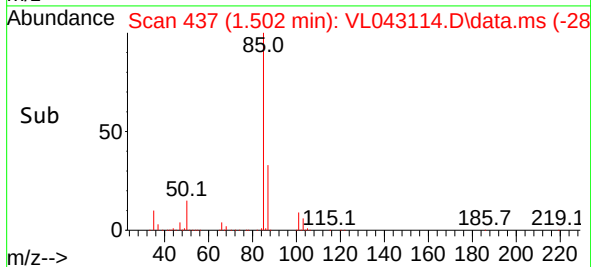
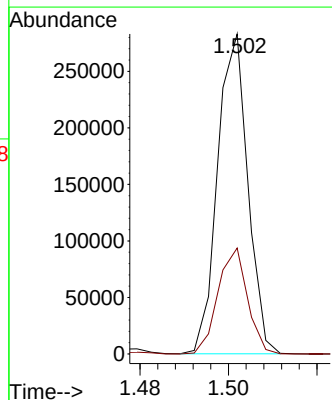
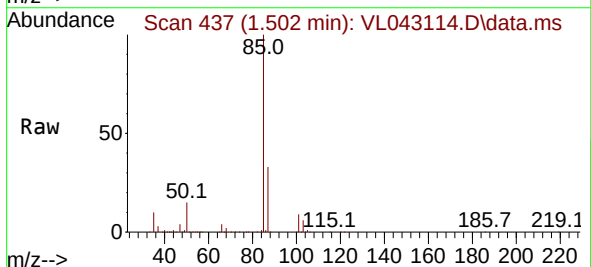
Manual Integrations
APPROVED

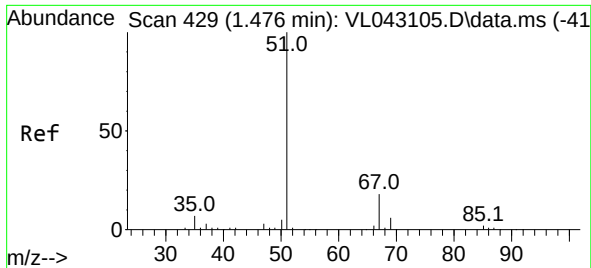
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025



#2
Dichlorodifluoromethane
Concen: 9.627 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

Tgt Ion: 85 Resp: 134418
Ion Ratio Lower Upper
85 100
87 33.1 25.3 37.9





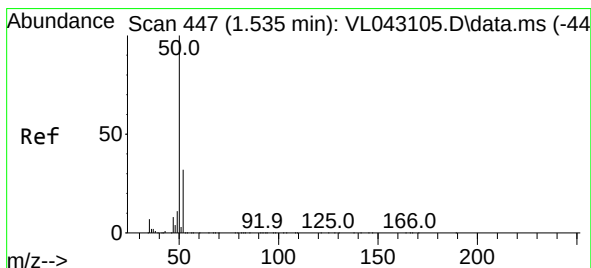
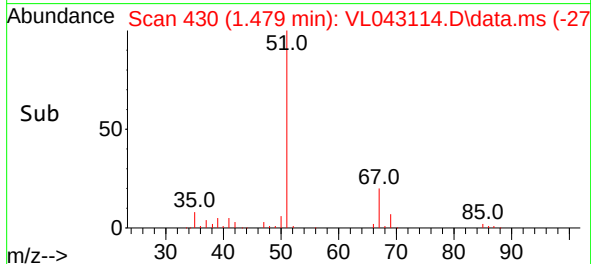
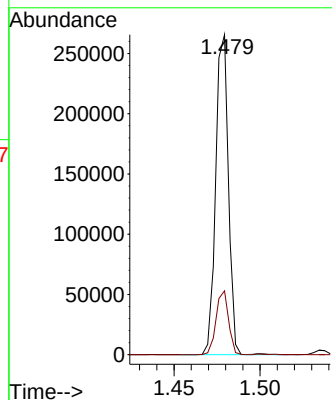
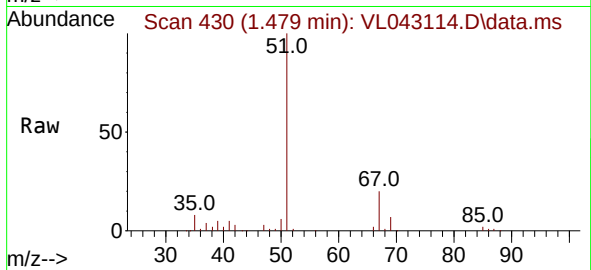
#3
Chlorodifluoromethane
Concen: 8.996 ppbv
RT: 1.479 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 51 Resp: 13590
Ion Ratio Lower Upper
51 100
67 19.9 15.1 22.7

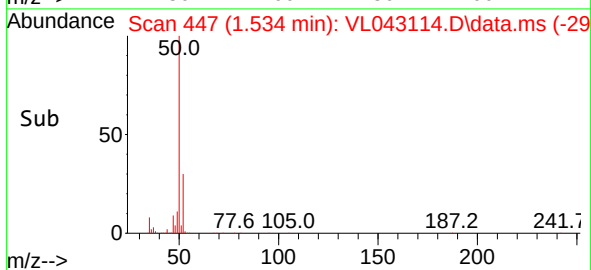
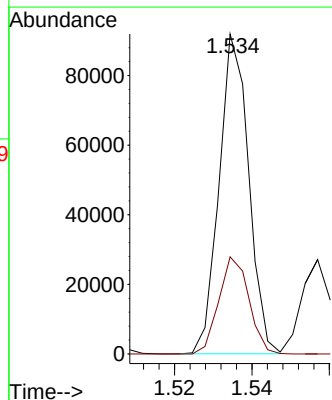
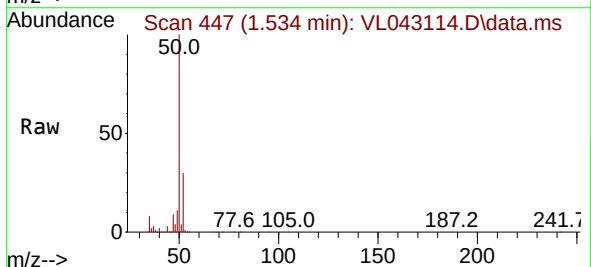
Manual Integrations
APPROVED

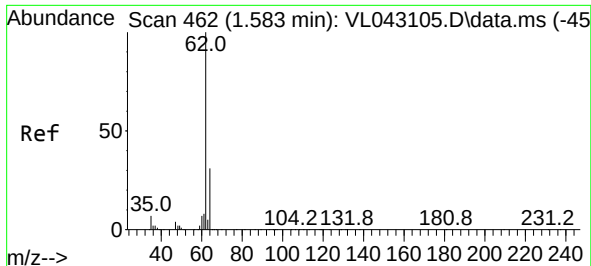
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025



#4
Chloromethane
Concen: 8.801 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

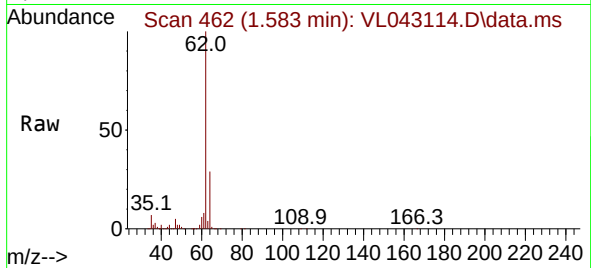
Tgt Ion: 50 Resp: 48684
Ion Ratio Lower Upper
50 100
52 30.4 25.2 37.8





#5
 Vinyl Chloride
 Concen: 8.871 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. -0.000 min
 Lab File: VL043114.D
 Acq: 15 Oct 2025 08:43

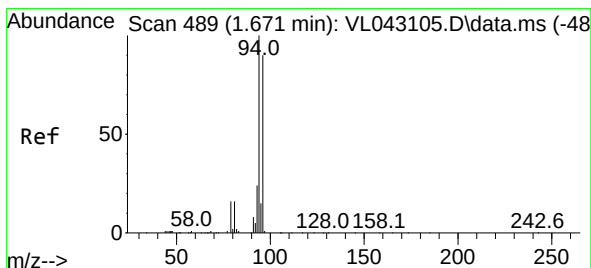
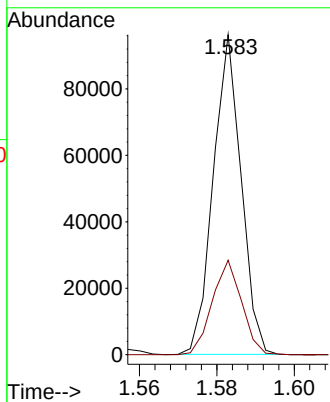
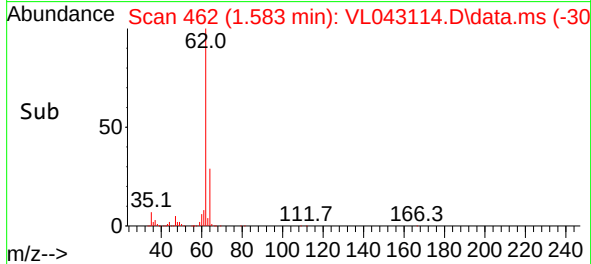
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



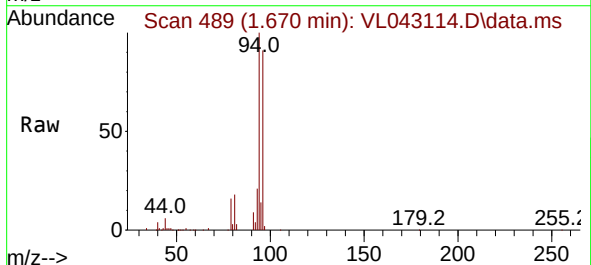
Tgt Ion: 62 Resp: 48129
 Ion Ratio Lower Upper
 62 100
 64 29.5 24.6 36.8

Manual Integrations
 APPROVED

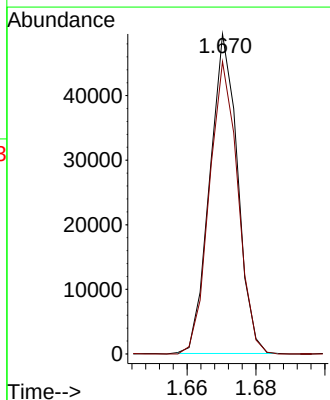
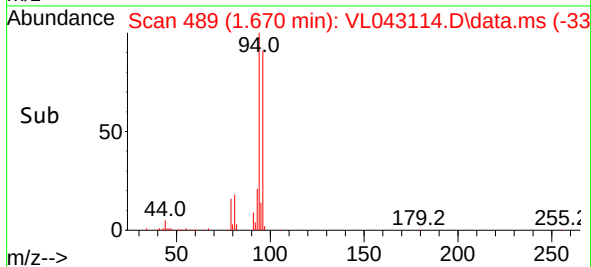
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/17/2025

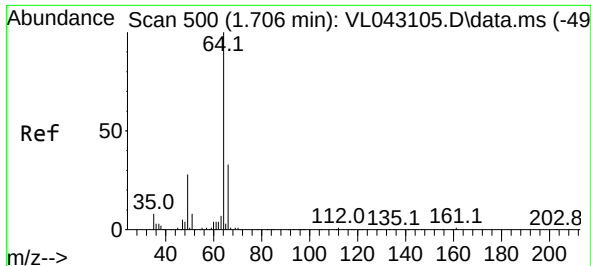


#6
 Bromomethane
 Concen: 9.278 ppbv
 RT: 1.670 min Scan# 489
 Delta R.T. -0.000 min
 Lab File: VL043114.D
 Acq: 15 Oct 2025 08:43



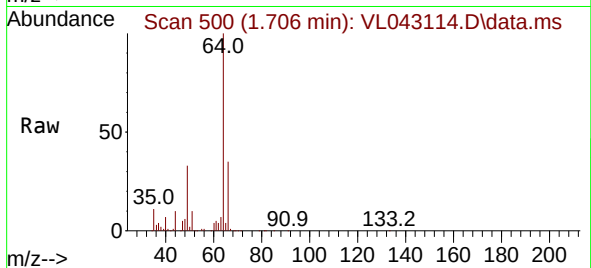
Tgt Ion: 94 Resp: 27602
 Ion Ratio Lower Upper
 94 100
 96 91.5 72.2 108.4





#7
Chloroethane
Concen: 8.627 ppbv
RT: 1.706 min Scan# 500
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

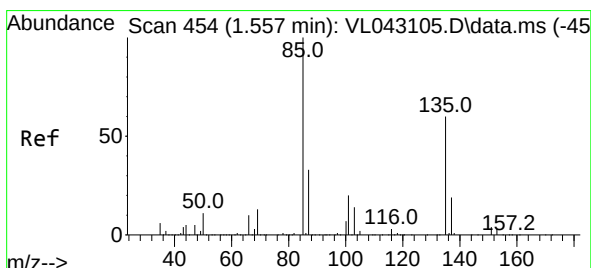
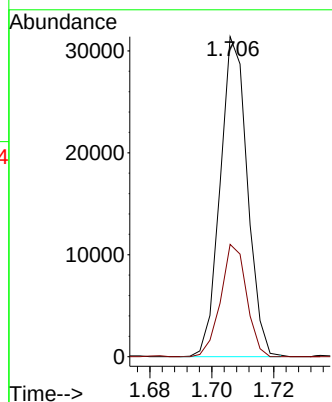
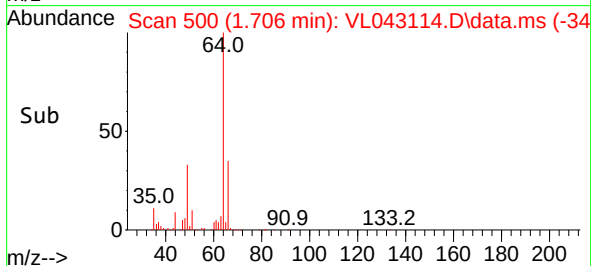
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



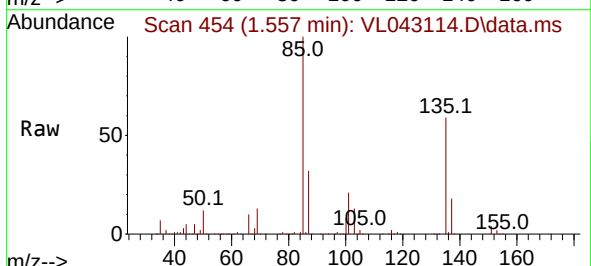
Tgt Ion: 64 Resp: 19130
Ion Ratio Lower Upper
64 100
66 35.1 26.0 39.0

Manual Integrations
APPROVED

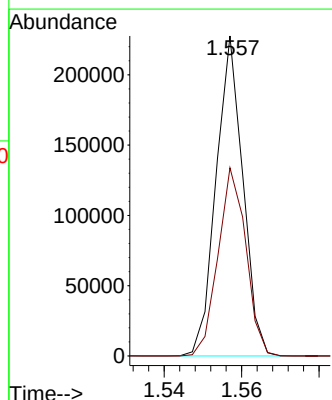
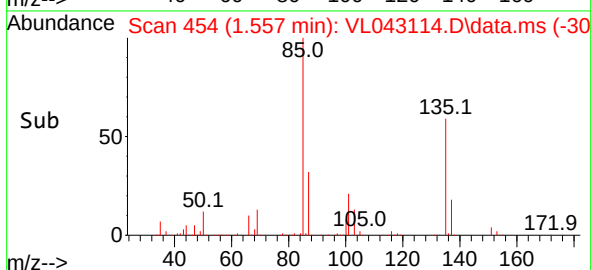
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025

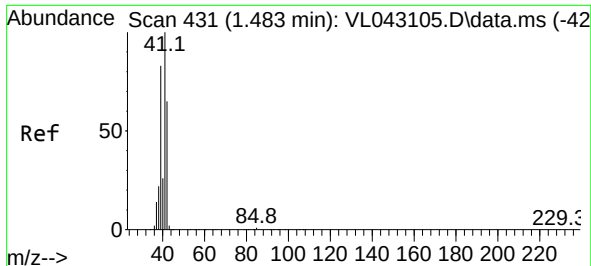


#8
Dichlorotetrafluoroethane
Concen: 9.685 ppbv
RT: 1.557 min Scan# 454
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43



Tgt Ion: 85 Resp: 109293
Ion Ratio Lower Upper
85 100
135 61.2 48.2 72.4





#9

Propene

Concen: 8.436 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL043114.D

Acq: 15 Oct 2025 08:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 41 Resp: 5652

Ion Ratio Lower Upper

41 100

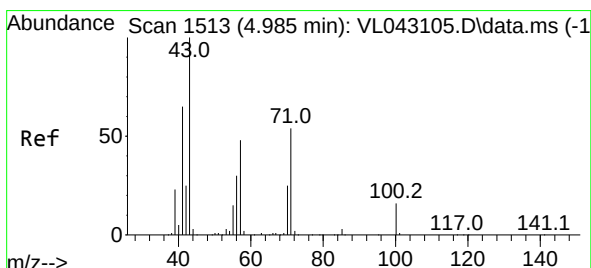
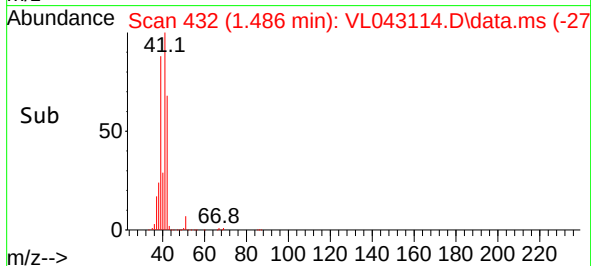
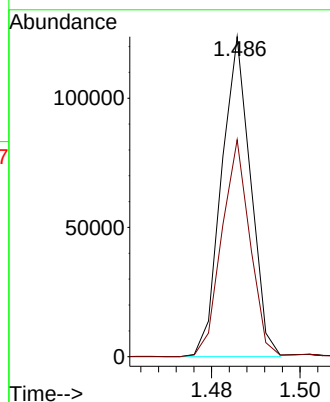
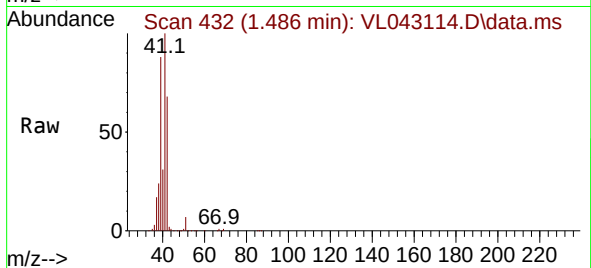
42 66.9 55.1 82.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/17/2025



#10

Heptane

Concen: 8.423 ppbv

RT: 4.988 min Scan# 1514

Delta R.T. 0.003 min

Lab File: VL043114.D

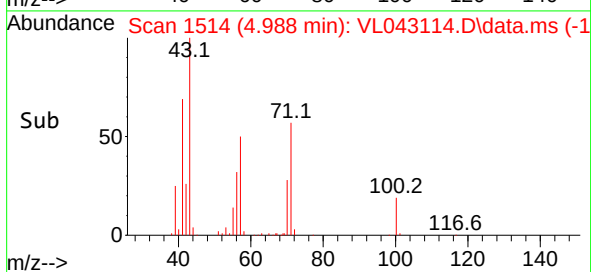
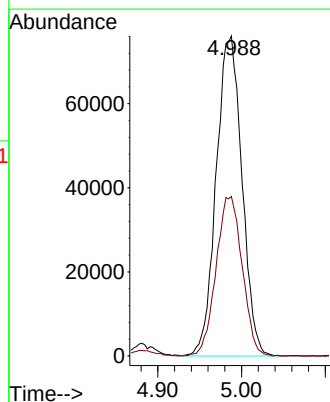
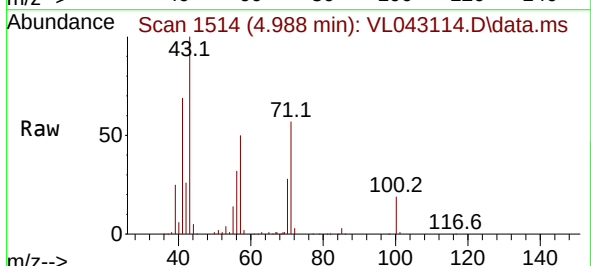
Acq: 15 Oct 2025 08:43

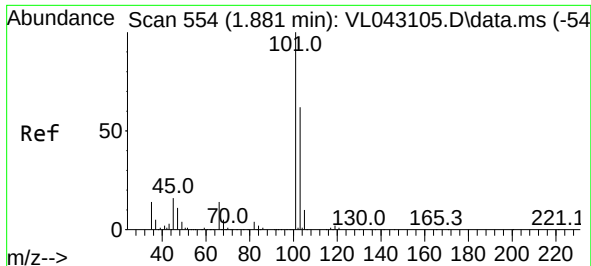
Tgt Ion: 43 Resp: 162470

Ion Ratio Lower Upper

43 100

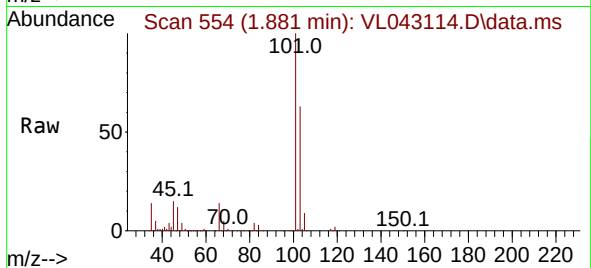
57 50.5 40.8 61.2





#11
Trichlorofluoromethane
Concen: 10.460 ppbv
RT: 1.881 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

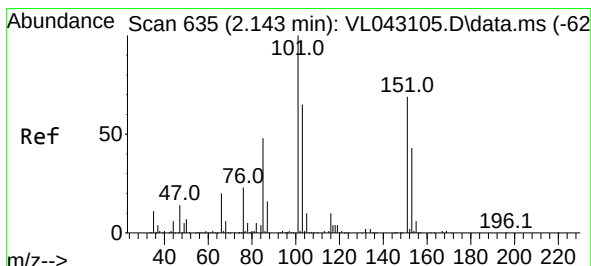
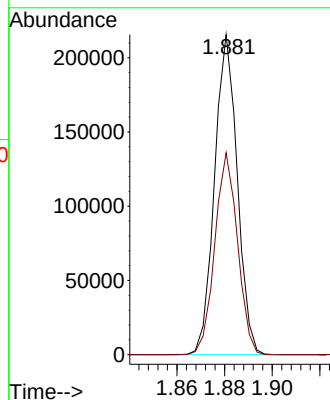
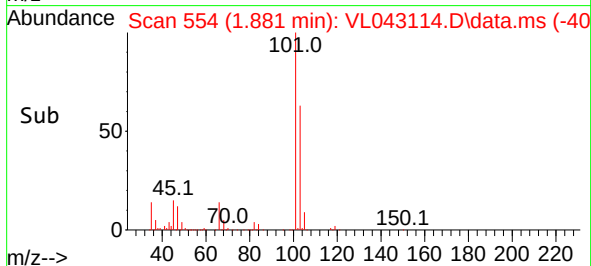
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



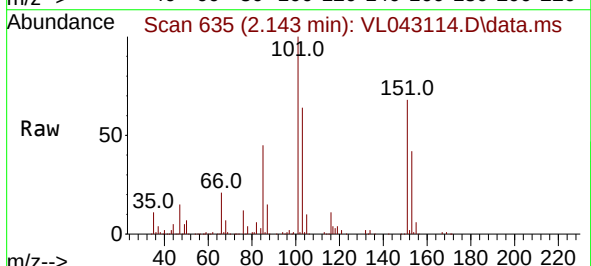
Tgt Ion:101 Resp: 142862
Ion Ratio Lower Upper
101 100
103 63.1 49.3 73.9

Manual Integrations
APPROVED

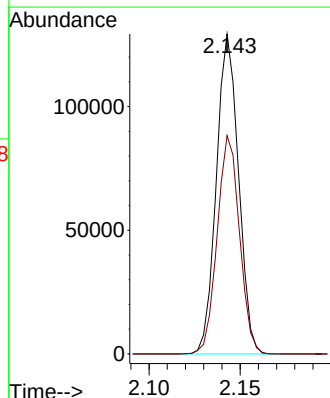
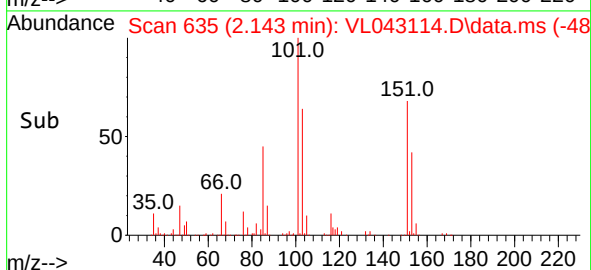
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025

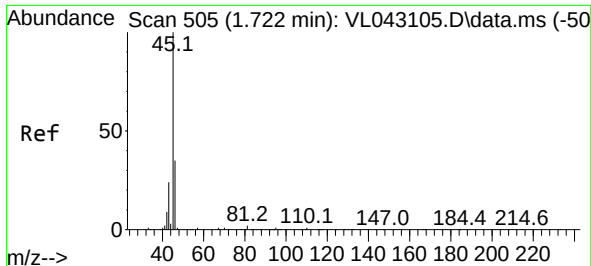


#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.930 ppbv
RT: 2.143 min Scan# 635
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43



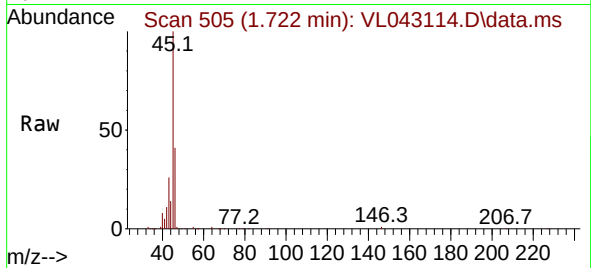
Tgt Ion:101 Resp: 109181
Ion Ratio Lower Upper
101 100
151 68.7 54.7 82.1





#13
Ethanol
Concen: 7.411 ppbv
RT: 1.722 min Scan# 505
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

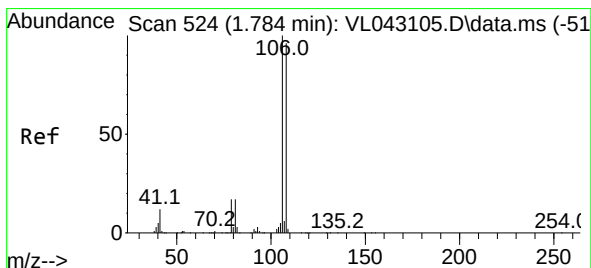
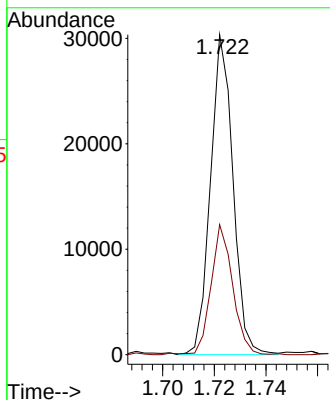
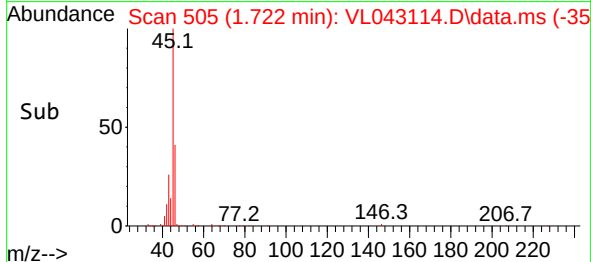
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



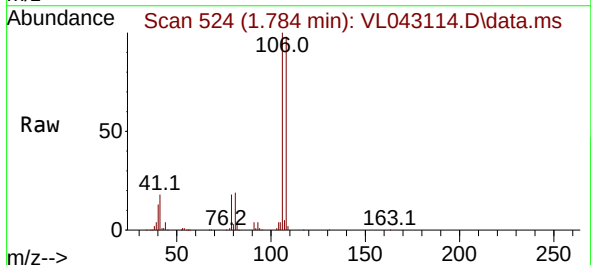
Tgt Ion: 45 Resp: 18360
Ion Ratio Lower Upper
45 100
46 39.3 14.7 58.9

Manual Integrations
APPROVED

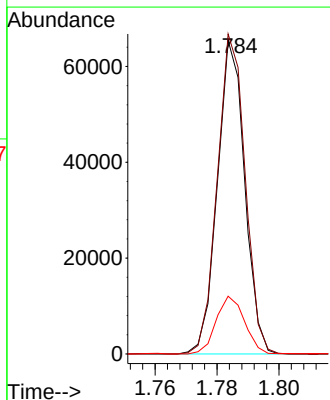
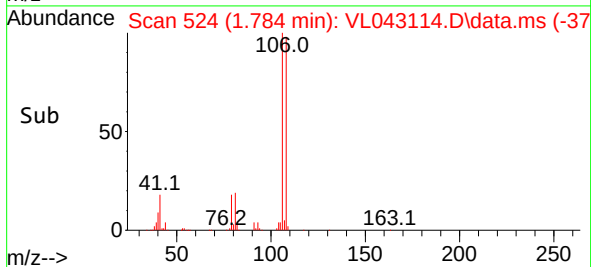
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025

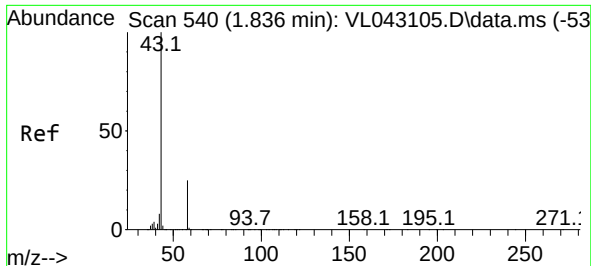


#14
Bromoethene
Concen: 9.804 ppbv
RT: 1.784 min Scan# 524
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43



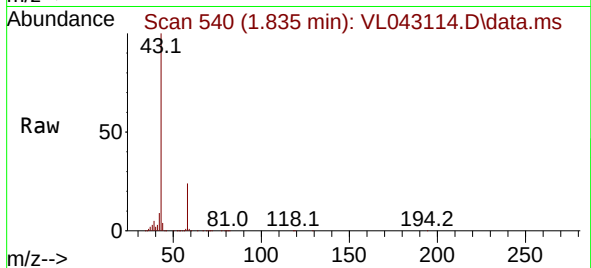
Tgt Ion:108 Resp: 40048
Ion Ratio Lower Upper
108 100
106 104.0 84.4 126.6
79 19.4 15.3 22.9





#15
Acetone
Concen: 8.539 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

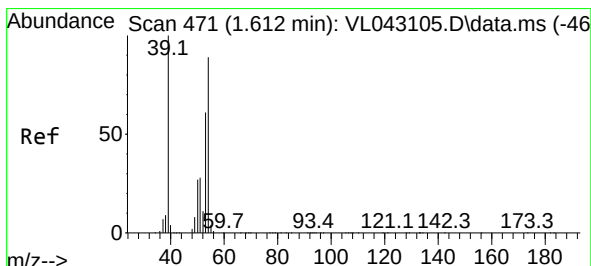
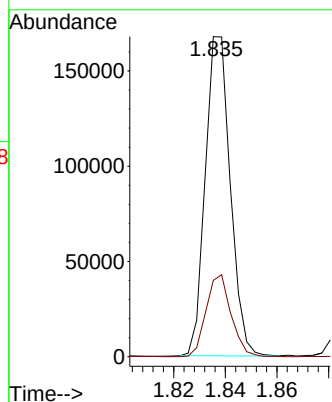
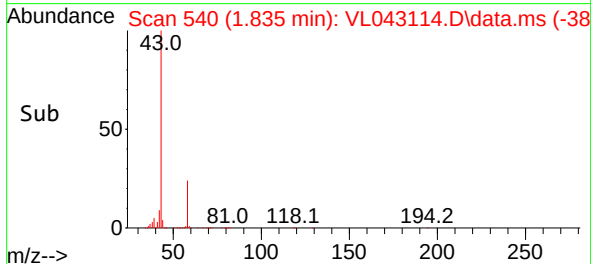
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



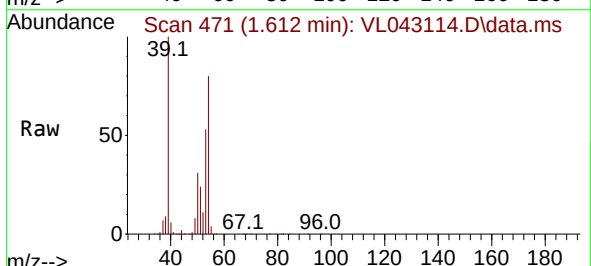
Tgt Ion: 43 Resp: 11303
Ion Ratio Lower Upper
43 100
58 25.6 20.8 31.2

Manual Integrations
APPROVED

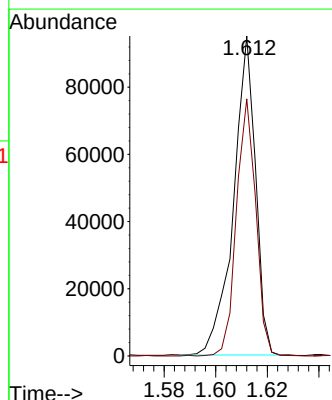
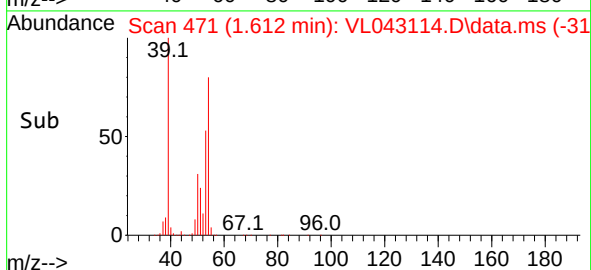
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025

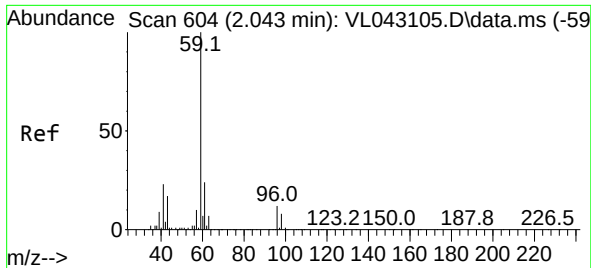


#16
1,3-Butadiene
Concen: 8.944 ppbv
RT: 1.612 min Scan# 471
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43



Tgt Ion: 39 Resp: 56426
Ion Ratio Lower Upper
39 100
54 70.9 59.0 88.4





#17

tert-Butyl alcohol

Concen: 9.621 ppbv

RT: 2.039 min Scan# 604

Delta R.T. -0.003 min

Lab File: VL043114.D

Acq: 15 Oct 2025 08:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 59 Resp: 174810

Ion Ratio Lower Upper

59 100

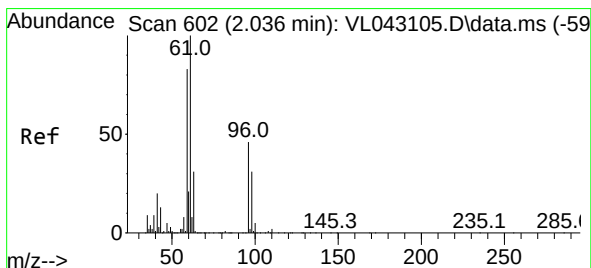
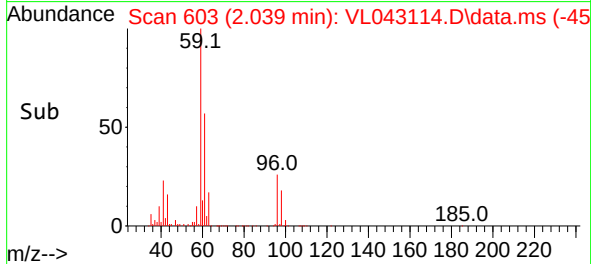
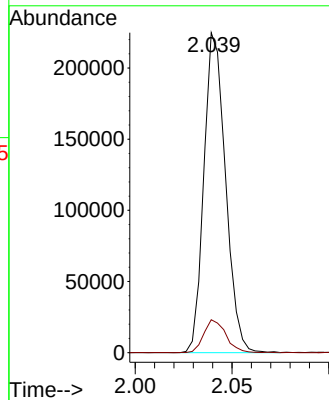
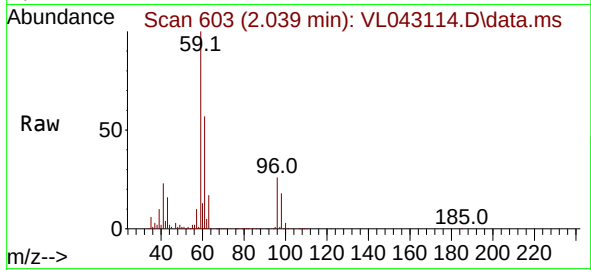
57 10.6 8.2 12.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/17/2025



#18

1,1-Dichloroethene

Concen: 10.131 ppbv

RT: 2.036 min Scan# 602

Delta R.T. -0.000 min

Lab File: VL043114.D

Acq: 15 Oct 2025 08:43

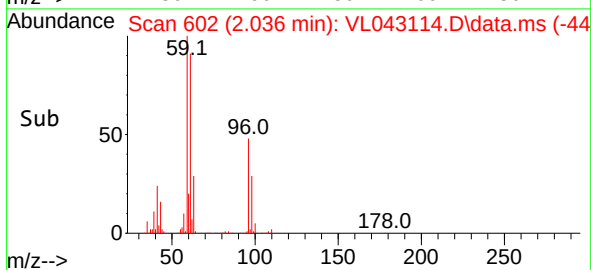
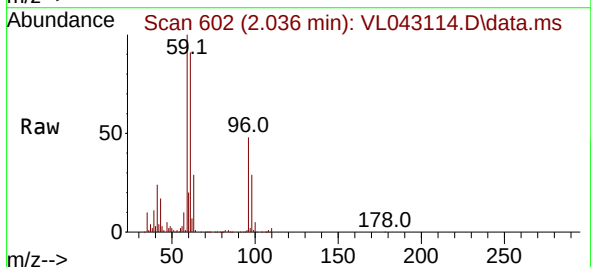
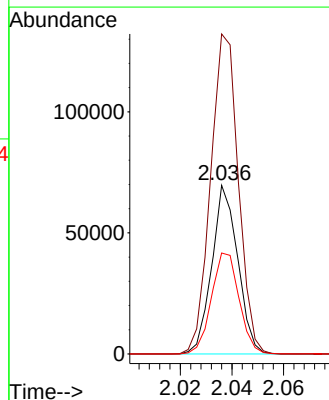
Tgt Ion: 96 Resp: 48563

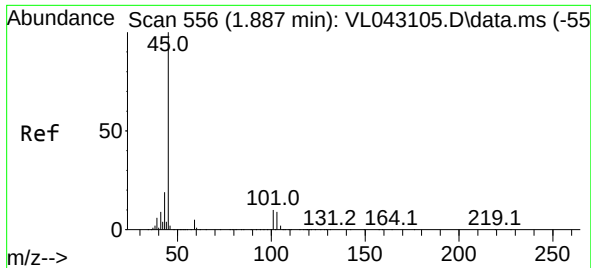
Ion Ratio Lower Upper

96 100

61 189.6 173.4 260.0

98 59.9 53.2 79.8





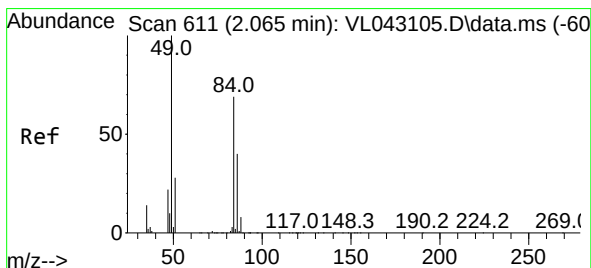
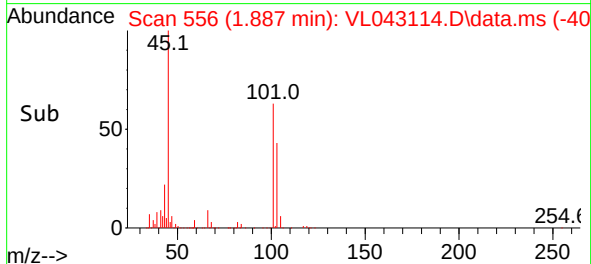
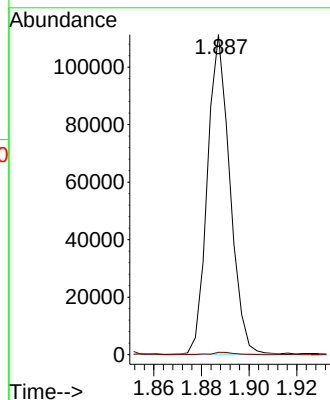
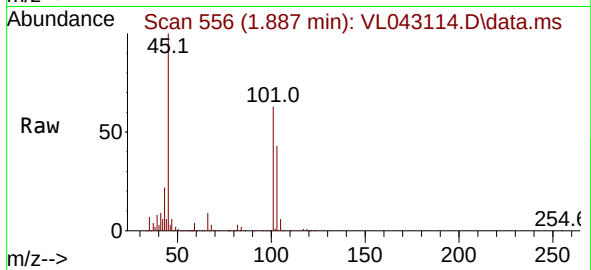
#19
Isopropyl Alcohol
Concen: 8.781 ppbv
RT: 1.887 min Scan# 556
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 45 Resp: 72390
Ion Ratio Lower Upper
45 100
58 40.0 31.3 46.9

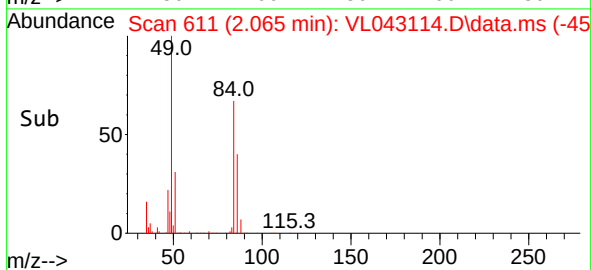
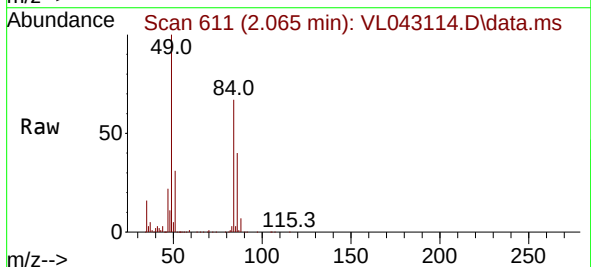
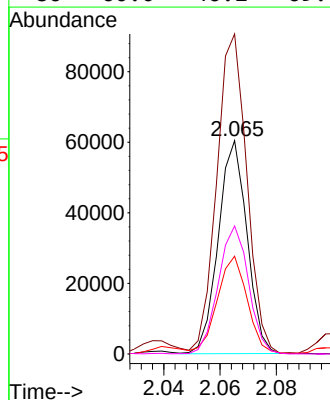
Manual Integrations
APPROVED

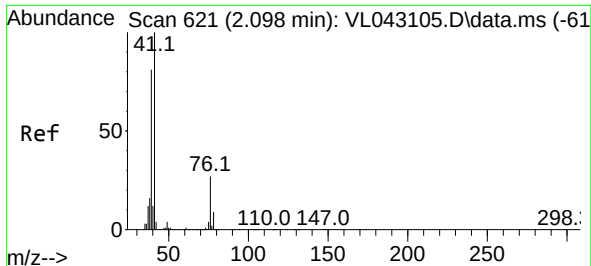
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025



#20
Methylene Chloride
Concen: 8.183 ppbv
RT: 2.065 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

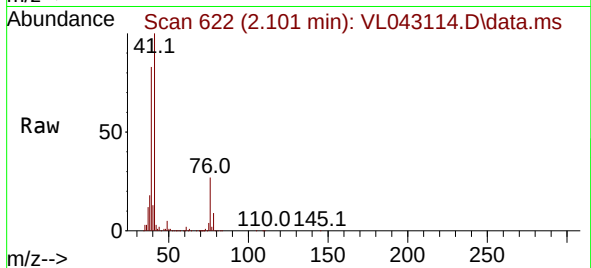
Tgt Ion: 84 Resp: 42819
Ion Ratio Lower Upper
84 100
49 150.2 116.6 175.0
51 45.4 34.8 52.2
86 60.0 46.2 69.4





#21
 Allyl Chloride
 Concen: 9.338 ppbv
 RT: 2.101 min Scan# 611
 Delta R.T. 0.003 min
 Lab File: VL043114.D
 Acq: 15 Oct 2025 08:43

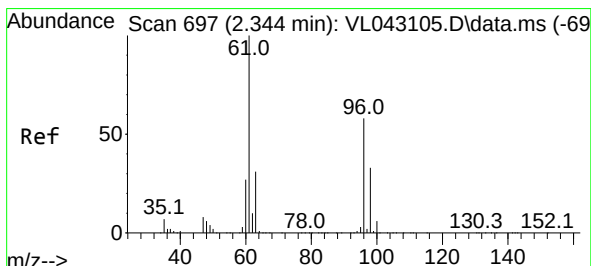
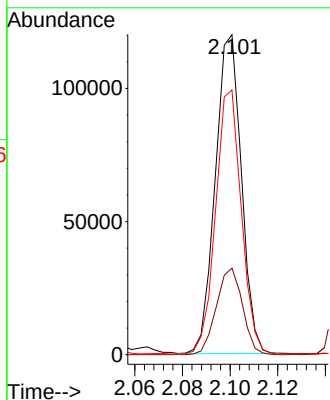
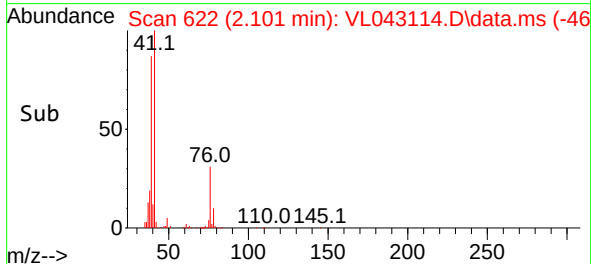
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



Tgt Ion: 41 Resp: 91089
 Ion Ratio Lower Upper
 41 100
 76 27.1 21.5 32.3
 39 81.7 60.8 91.2

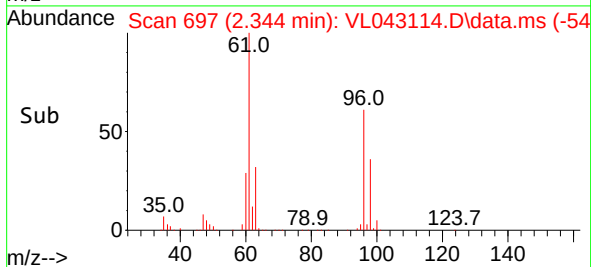
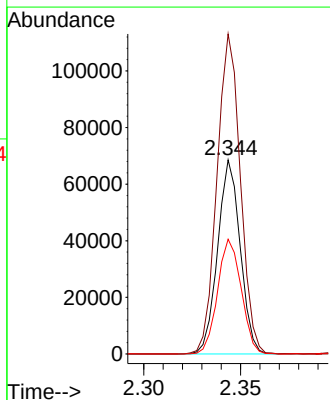
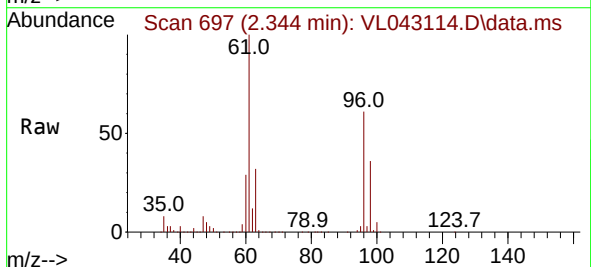
Manual Integrations
 APPROVED

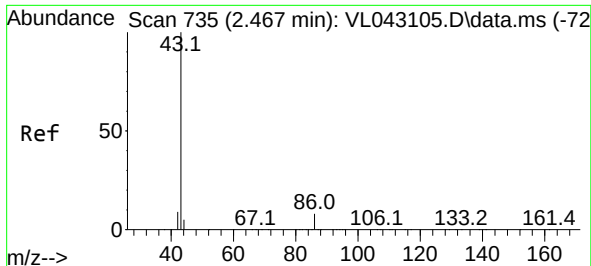
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/17/2025



#22
 trans-1,2-Dichloroethene
 Concen: 9.681 ppbv
 RT: 2.344 min Scan# 697
 Delta R.T. -0.000 min
 Lab File: VL043114.D
 Acq: 15 Oct 2025 08:43

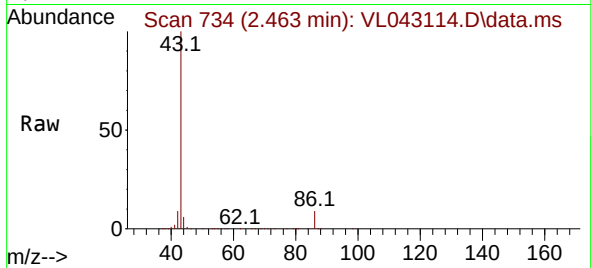
Tgt Ion: 96 Resp: 55471
 Ion Ratio Lower Upper
 96 100
 61 164.9 137.0 205.6
 98 59.1 45.5 68.3





#23
 Vinyl Acetate
 Concen: 9.216 ppbv
 RT: 2.463 min Scan# 718
 Delta R.T. -0.004 min
 Lab File: VL043114.D
 Acq: 15 Oct 2025 08:43

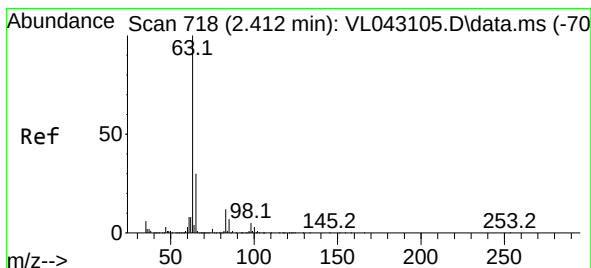
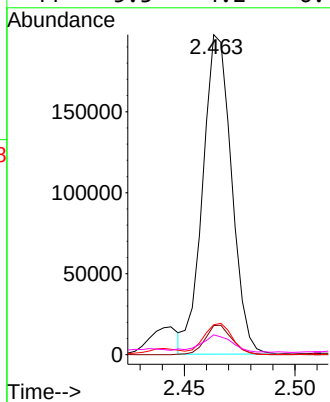
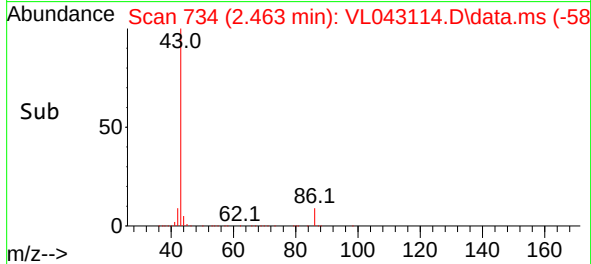
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



Tgt Ion: 43 Resp: 178708
 Ion Ratio Lower Upper
 43 100
 86 9.1 6.2 9.2
 42 9.3 7.6 11.4
 44 5.3 4.2 6.4

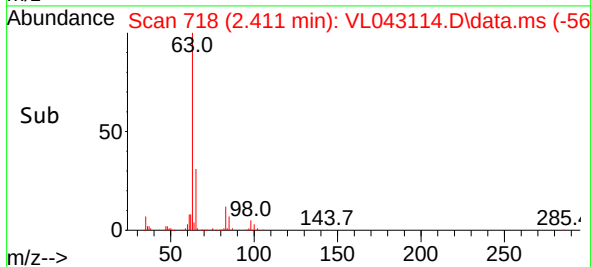
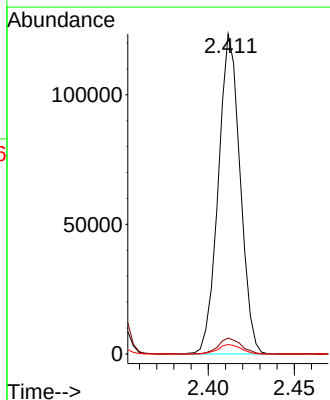
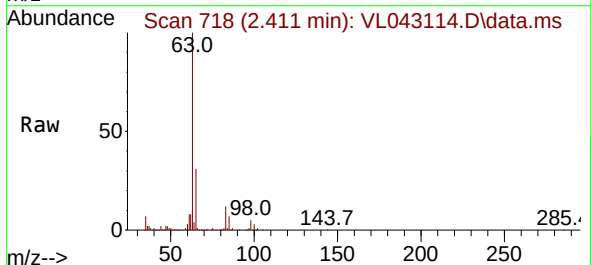
Manual Integrations
 APPROVED

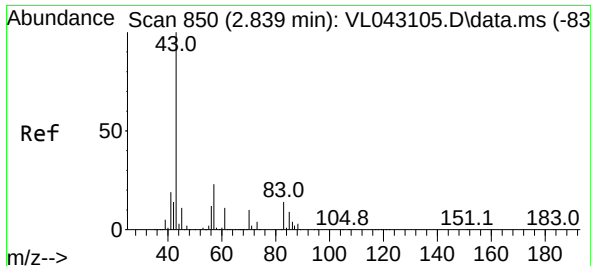
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/17/2025



#24
 1,1-Dichloroethane
 Concen: 9.847 ppbv
 RT: 2.411 min Scan# 718
 Delta R.T. -0.000 min
 Lab File: VL043114.D
 Acq: 15 Oct 2025 08:43

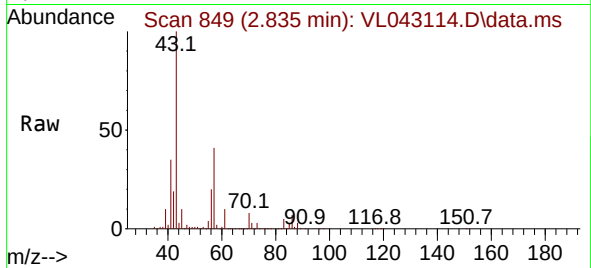
Tgt Ion: 63 Resp: 109016
 Ion Ratio Lower Upper
 63 100
 98 4.9 2.6 7.8
 100 2.9 1.5 4.4





#25
Ethyl Acetate
Concen: 8.848 ppbv
RT: 2.835 min Scan# 849
Delta R.T. -0.003 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

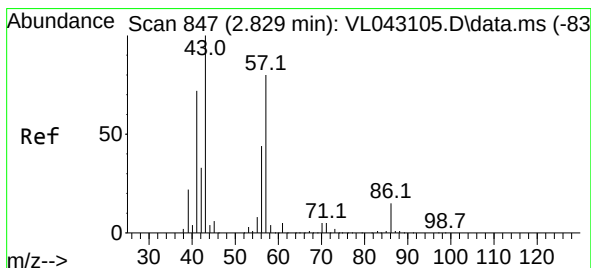
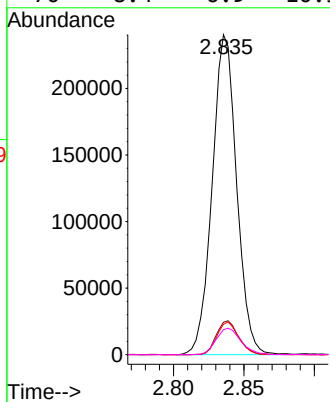
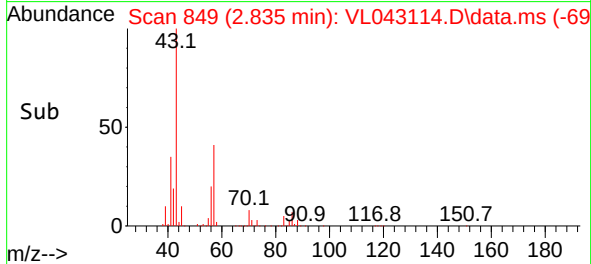
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



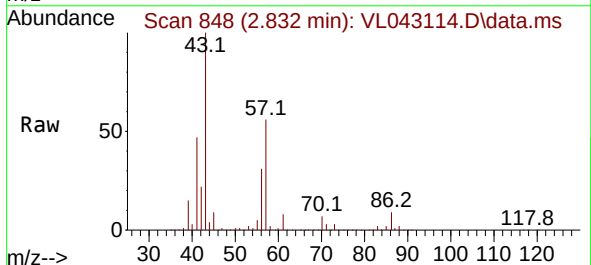
Tgt Ion: 43 Resp: 29044
Ion Ratio Lower Upper
43 100
45 9.7 7.8 11.8
61 9.2 7.0 10.6
70 8.4 6.9 10.3

Manual Integrations
APPROVED

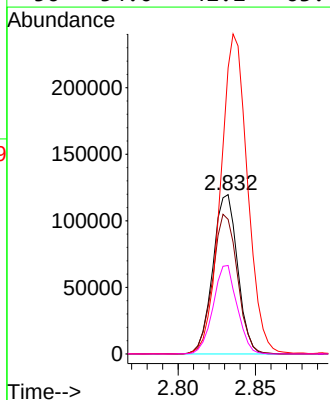
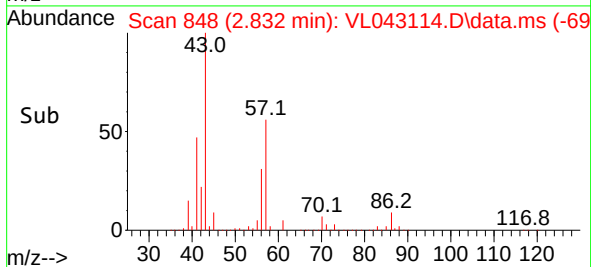
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025

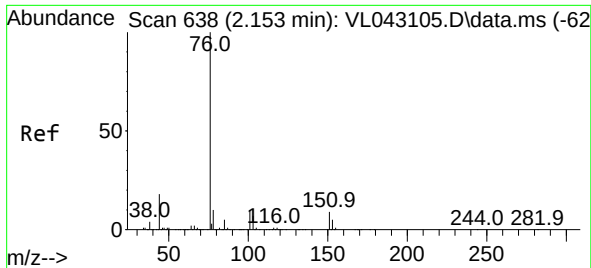


#26
Hexane
Concen: 8.766 ppbv
RT: 2.832 min Scan# 848
Delta R.T. 0.003 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43



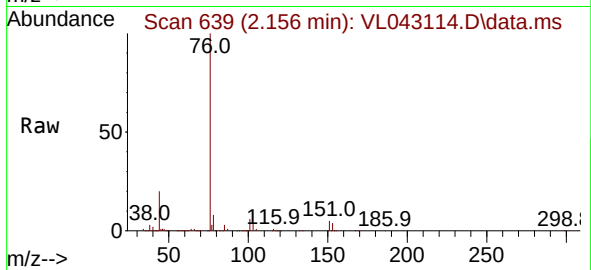
Tgt Ion: 57 Resp: 132602
Ion Ratio Lower Upper
57 100
41 88.8 71.4 107.0
43 220.5 178.5 267.7
56 54.0 42.2 63.4





#27
Carbon Disulfide
Concen: 9.810 ppbv
RT: 2.156 min Scan# 611
Delta R.T. 0.003 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

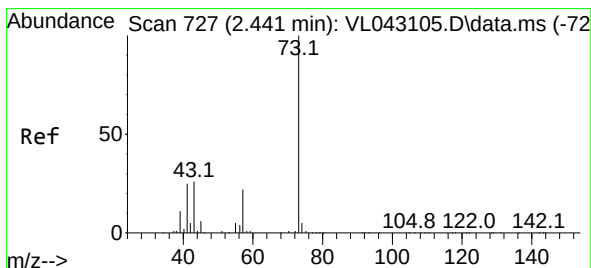
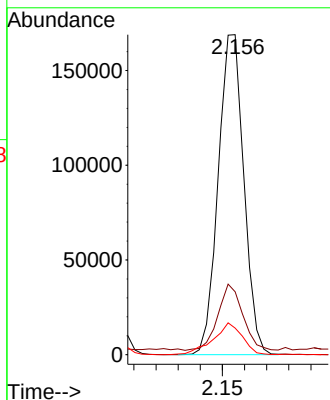
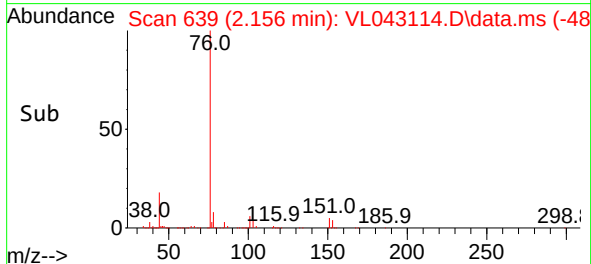
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion: 76 Resp: 135963
Ion Ratio Lower Upper
76 100
44 29.5 16.7 25.1
78 11.4 9.3 13.9

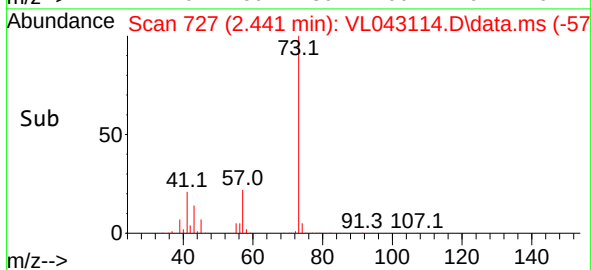
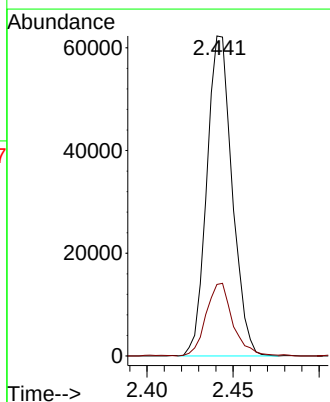
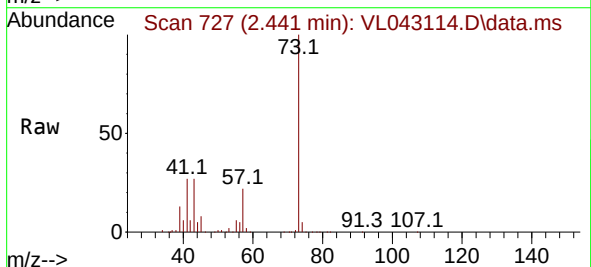
Manual Integrations
APPROVED

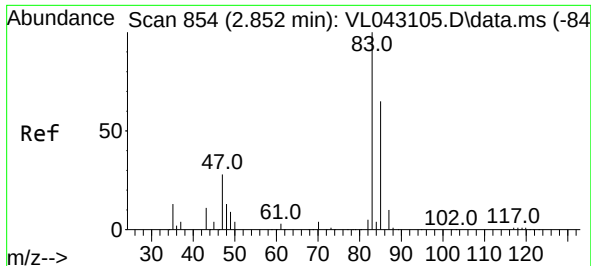
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025



#28
Methyl tert-Butyl Ether
Concen: 9.290 ppbv
RT: 2.441 min Scan# 727
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

Tgt Ion: 73 Resp: 63933
Ion Ratio Lower Upper
73 100
57 24.3 20.5 30.7





#29

Chloroform

Concen: 9.458 ppbv

RT: 2.852 min Scan# 854

Delta R.T. -0.000 min

Lab File: VL043114.D

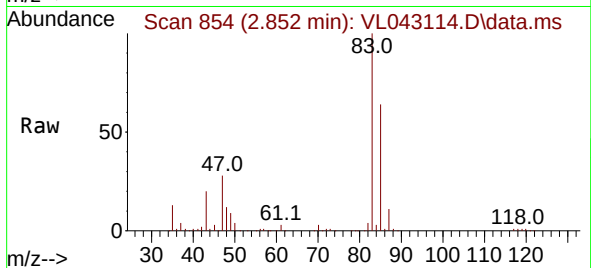
Acq: 15 Oct 2025 08:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010



Tgt Ion: 83 Resp: 20729

Ion Ratio Lower Upper

83 100

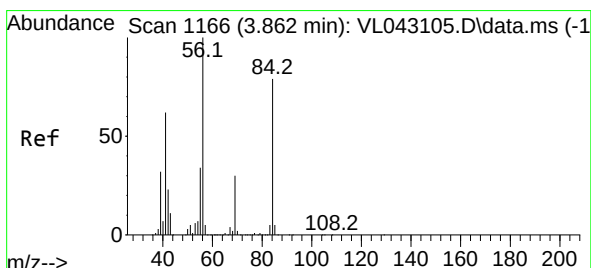
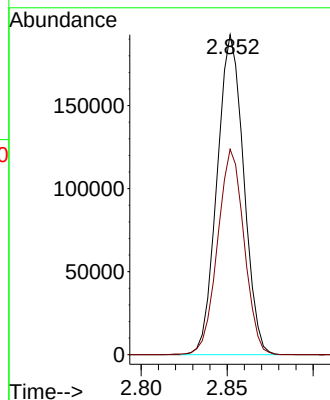
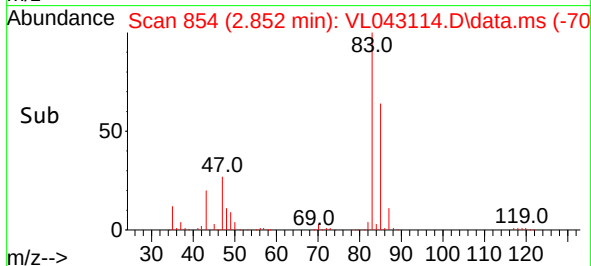
85 64.2 51.8 77.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/17/2025



#30

Cyclohexane

Concen: 8.872 ppbv

RT: 3.861 min Scan# 1166

Delta R.T. -0.000 min

Lab File: VL043114.D

Acq: 15 Oct 2025 08:43

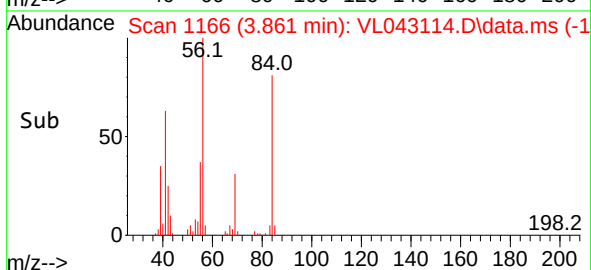
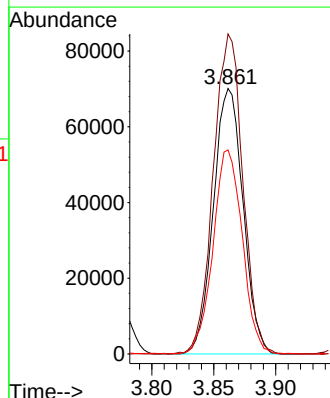
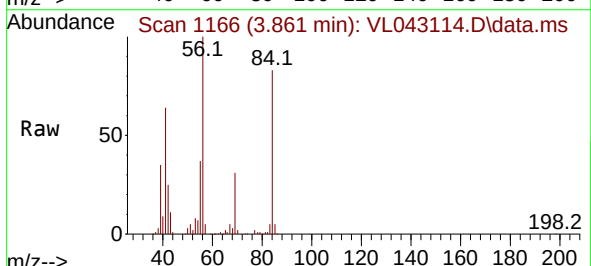
Tgt Ion: 84 Resp: 117130

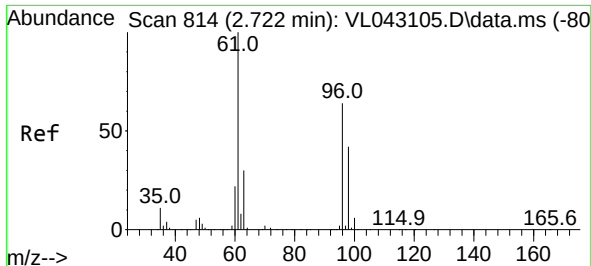
Ion Ratio Lower Upper

84 100

56 119.7 100.9 151.3

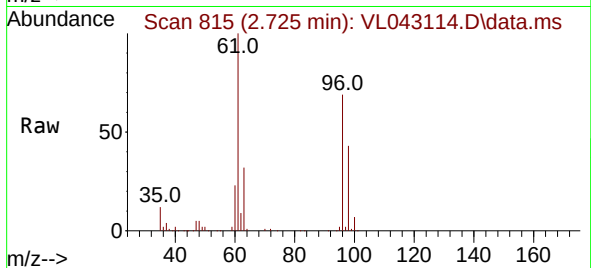
41 76.0 63.8 95.6





#31
 cis-1,2-Dichloroethene
 Concen: 9.551 ppbv
 RT: 2.725 min Scan# 814
 Delta R.T. 0.003 min
 Lab File: VL043114.D
 Acq: 15 Oct 2025 08:43

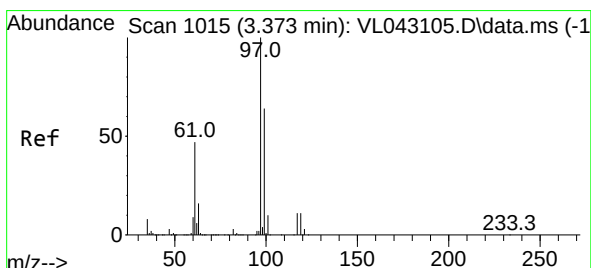
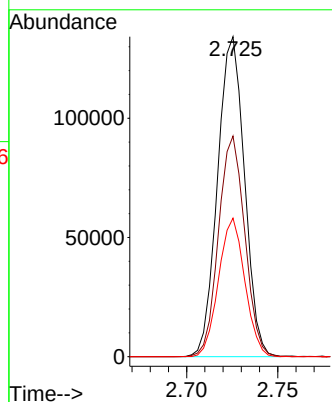
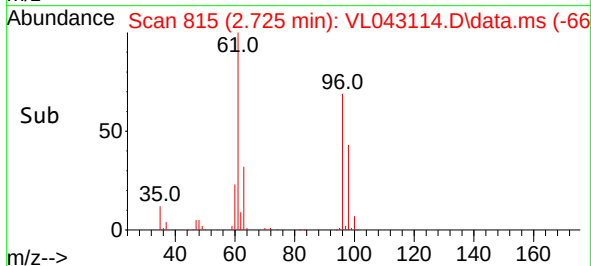
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



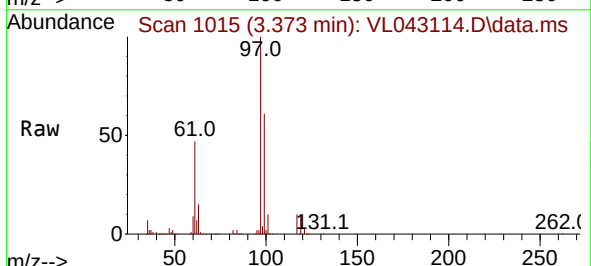
Tgt Ion: 61 Resp: 137958
 Ion Ratio Lower Upper
 61 100
 96 68.9 51.0 76.6
 98 43.3 33.5 50.3

Manual Integrations
 APPROVED

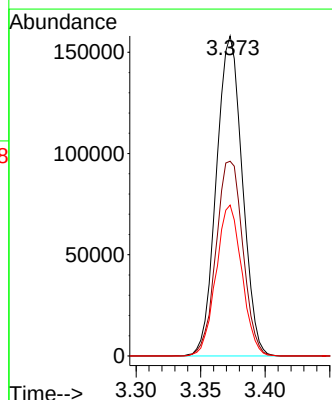
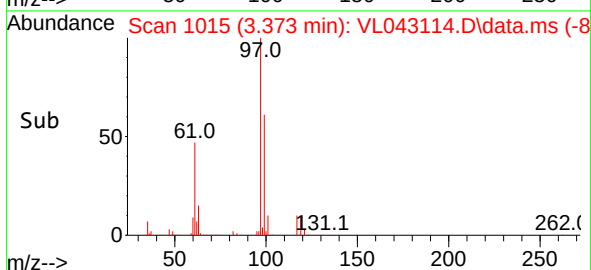
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/17/2025

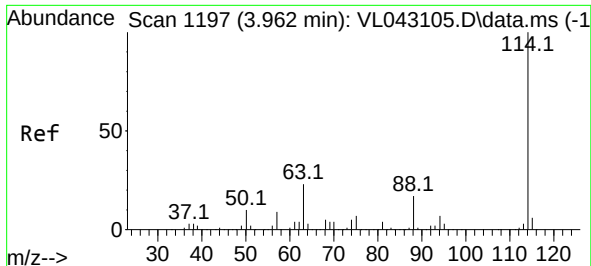


#32
 1,1,1-Trichloroethane
 Concen: 9.688 ppbv
 RT: 3.373 min Scan# 1015
 Delta R.T. -0.000 min
 Lab File: VL043114.D
 Acq: 15 Oct 2025 08:43



Tgt Ion: 97 Resp: 221109
 Ion Ratio Lower Upper
 97 100
 99 62.9 51.3 76.9
 61 46.9 38.4 57.6





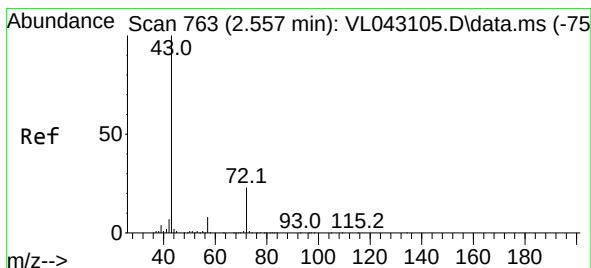
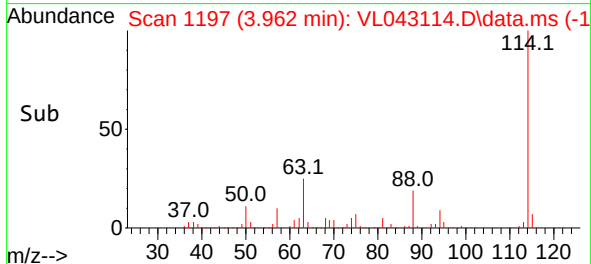
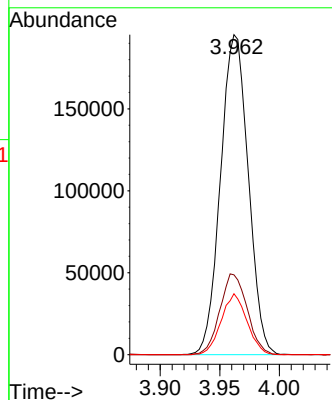
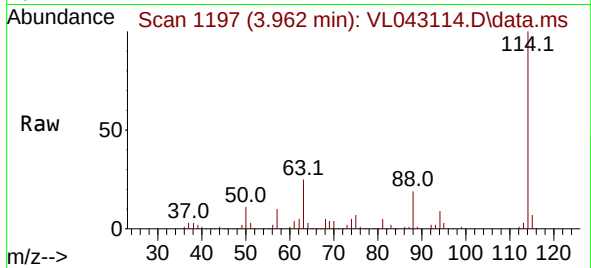
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:114 Resp: 31611
Ion Ratio Lower Upper
114 100
63 24.8 19.3 28.9
88 17.7 13.9 20.9

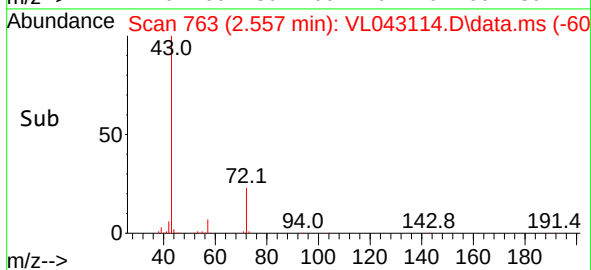
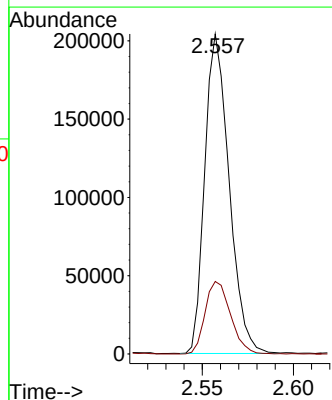
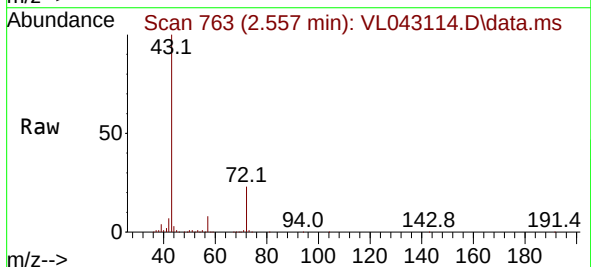
Manual Integrations
APPROVED

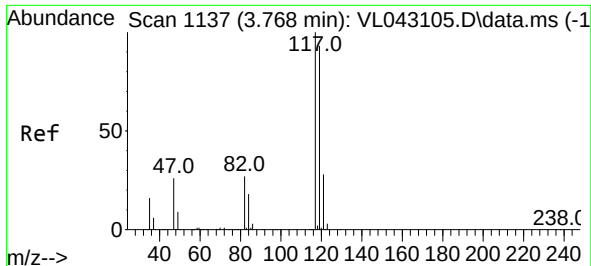
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025



#34
2-Butanone
Concen: 8.917 ppbv
RT: 2.557 min Scan# 763
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

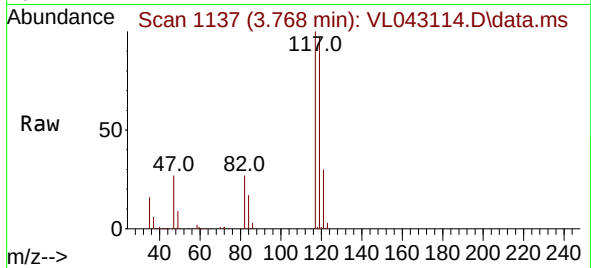
Tgt Ion: 43 Resp: 189478
Ion Ratio Lower Upper
43 100
72 23.7 18.4 27.6





#35
Carbon Tetrachloride
Concen: 9.702 ppbv
RT: 3.768 min Scan# 1137
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

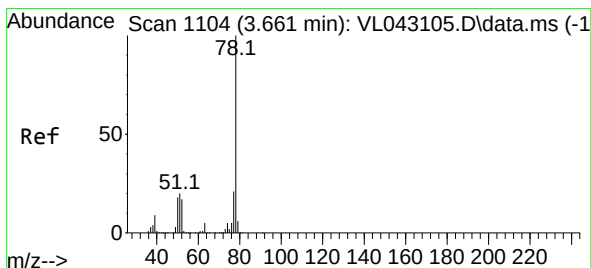
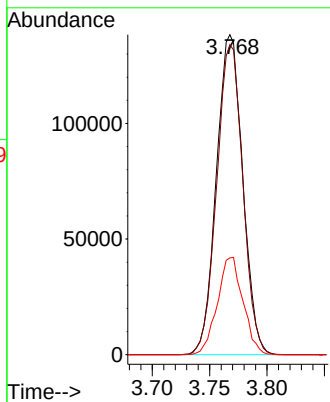
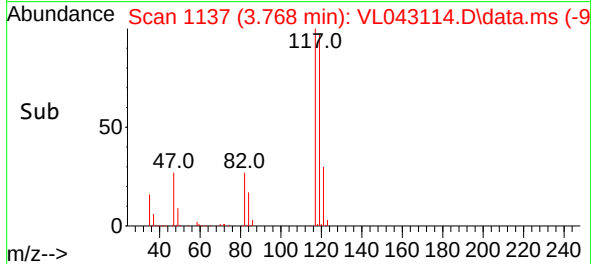
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion: 117 Resp: 220510
Ion Ratio Lower Upper
117 100
119 96.9 74.1 111.1
121 30.2 22.2 33.2

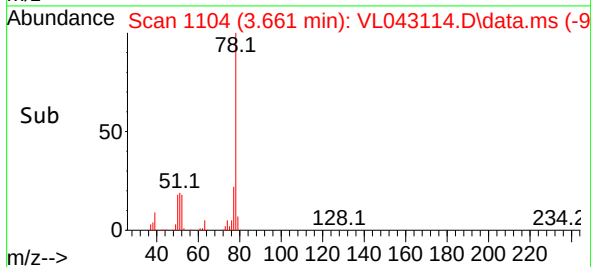
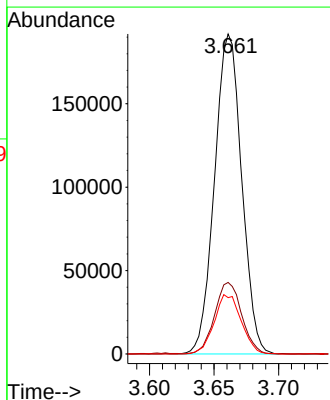
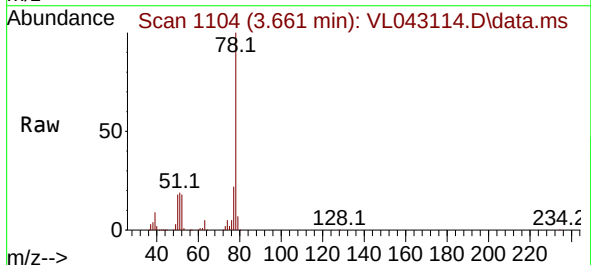
Manual Integrations
APPROVED

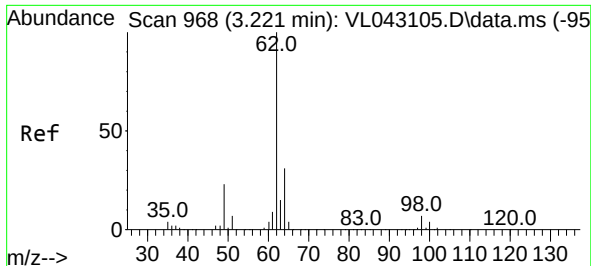
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025



#36
Benzene
Concen: 9.405 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

Tgt Ion: 78 Resp: 280028
Ion Ratio Lower Upper
78 100
77 22.3 17.0 25.6
50 17.6 14.6 22.0





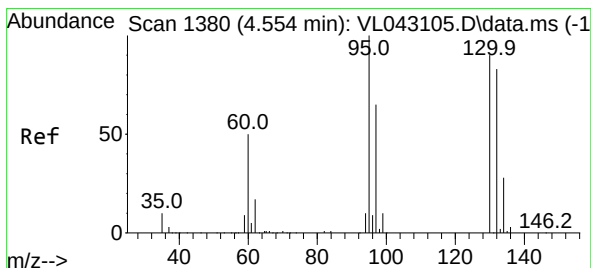
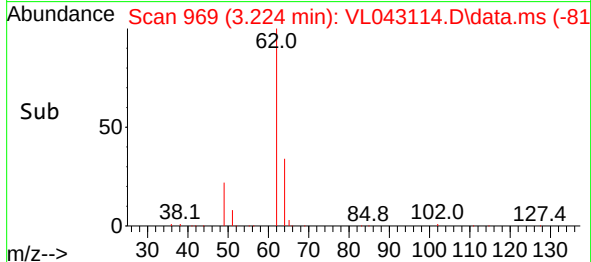
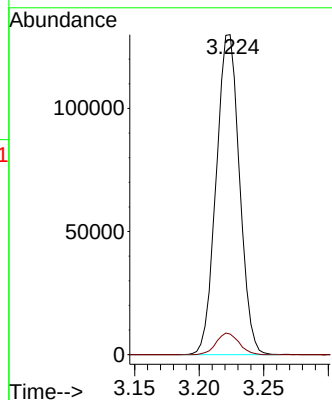
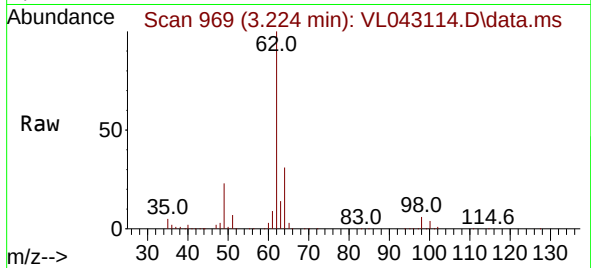
#37
1,2-Dichloroethane
Concen: 9.506 ppbv
RT: 3.224 min Scan# 969
Delta R.T. 0.003 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 62 Resp: 16304
Ion Ratio Lower Upper
62 100
98 6.6 5.8 8.6

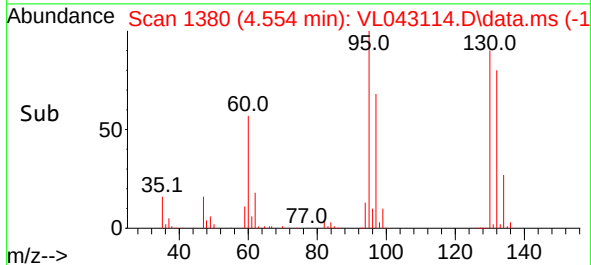
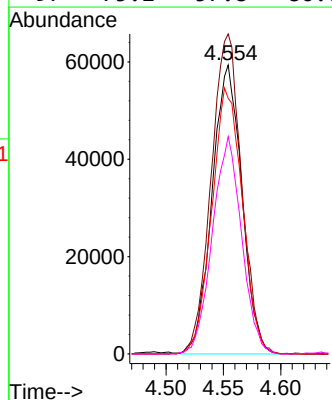
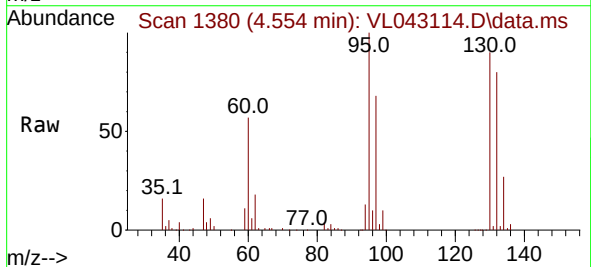
Manual Integrations
APPROVED

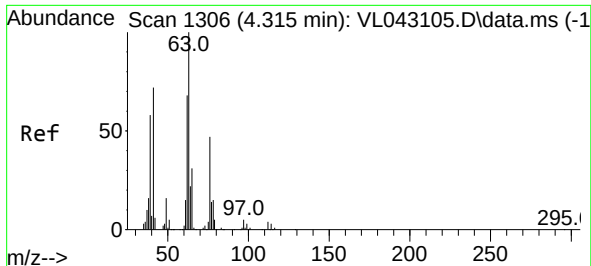
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025



#38
Trichloroethene
Concen: 8.597 ppbv
RT: 4.554 min Scan# 1380
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

Tgt Ion:130 Resp: 106893
Ion Ratio Lower Upper
130 100
95 110.5 88.6 133.0
132 88.4 73.4 110.0
97 75.2 57.8 86.6





#39

1,2-Dichloropropane

Concen: 9.057 ppbv

RT: 4.318 min Scan# 1306

Delta R.T. 0.003 min

Lab File: VL043114.D

Acq: 15 Oct 2025 08:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

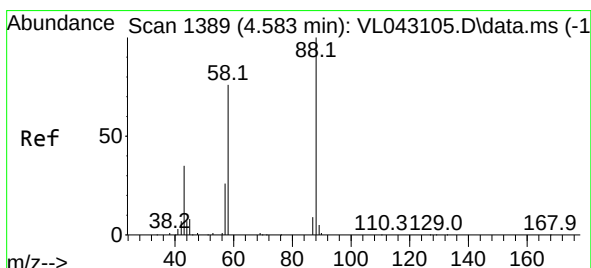
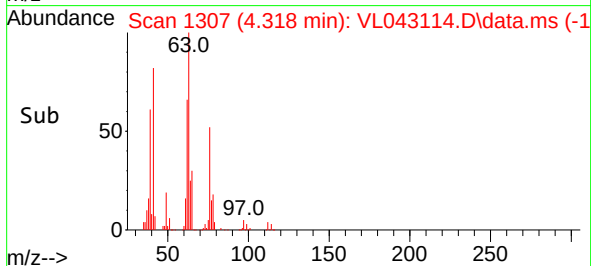
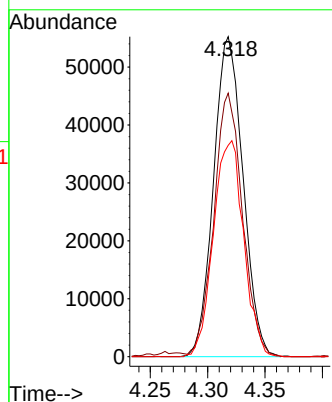
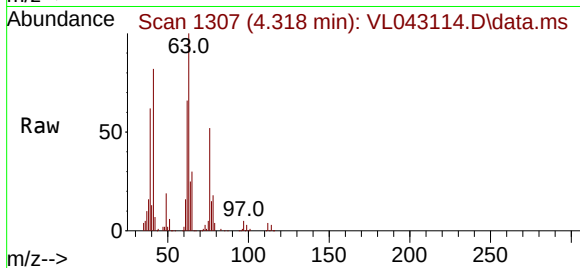
Tgt Ion: 63 Resp: 9858

Ion	Ratio	Lower	Upper
63	100		
41	82.2	58.0	87.0
62	66.0	54.7	82.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025



#40

1,4-Dioxane

Concen: 9.142 ppbv

RT: 4.580 min Scan# 1388

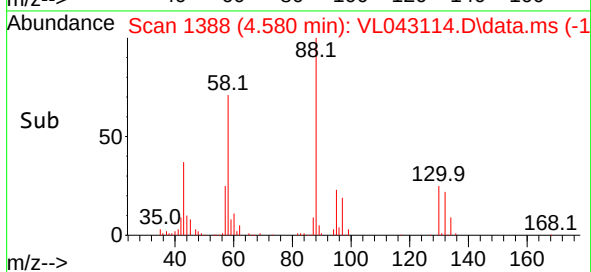
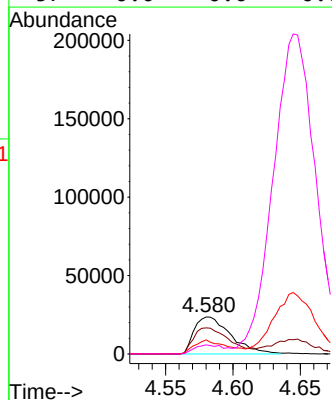
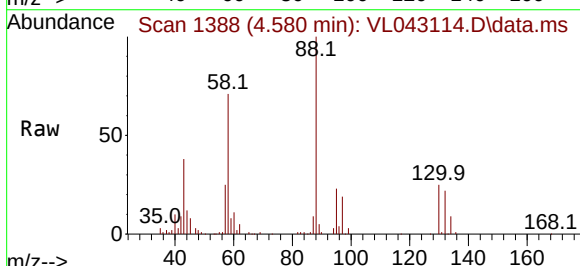
Delta R.T. -0.003 min

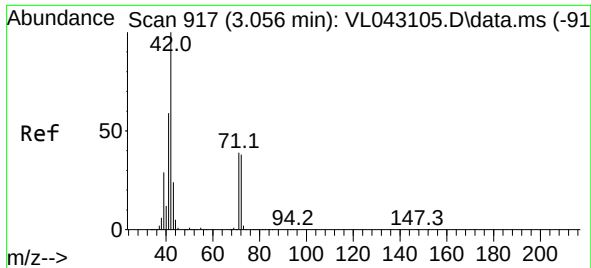
Lab File: VL043114.D

Acq: 15 Oct 2025 08:43

Tgt Ion: 88 Resp: 44526

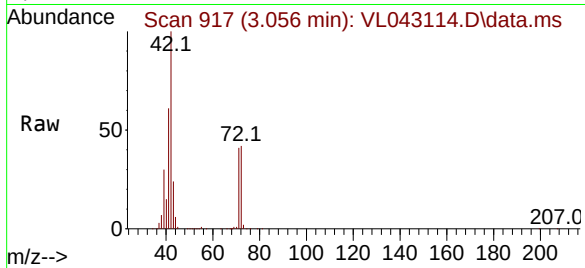
Ion	Ratio	Lower	Upper
88	100		
58	70.6	61.1	91.7
43	34.9	24.0	36.0
57	0.0	0.0	0.0





#41
Tetrahydrofuran
Concen: 8.646 ppbv
RT: 3.056 min Scan# 917
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

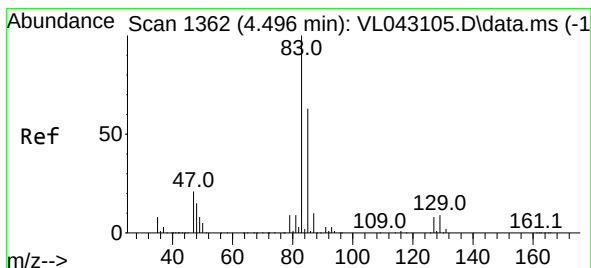
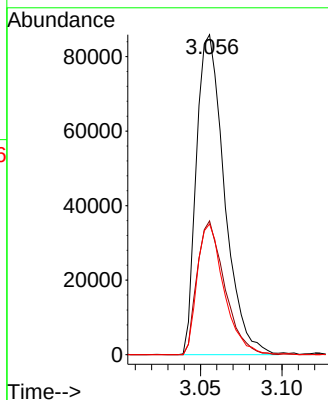
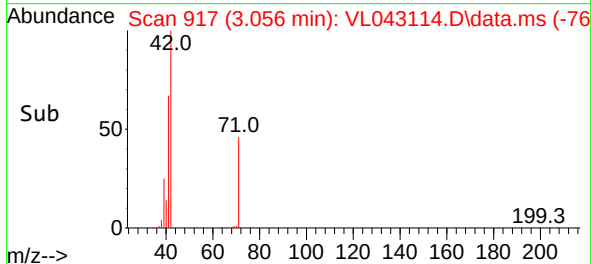
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



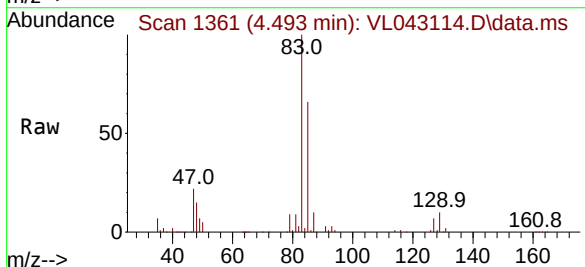
Tgt Ion: 42 Resp: 102758
Ion Ratio Lower Upper
42 100
72 41.2 31.3 46.9
71 39.2 30.4 45.6

Manual Integrations
APPROVED

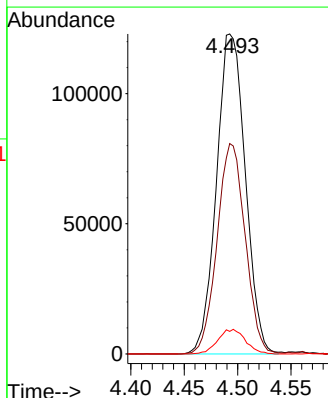
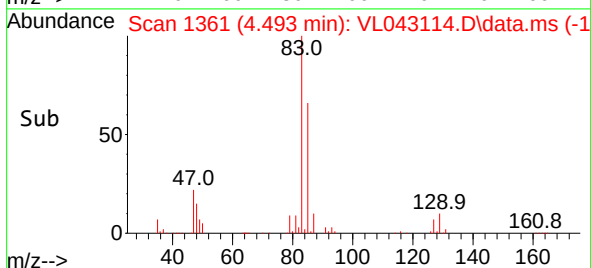
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025

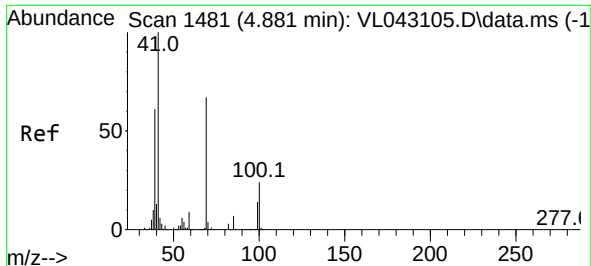


#42
Bromodichloromethane
Concen: 9.731 ppbv
RT: 4.493 min Scan# 1361
Delta R.T. -0.003 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43



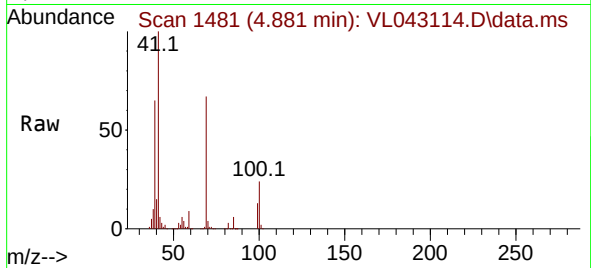
Tgt Ion: 83 Resp: 231006
Ion Ratio Lower Upper
83 100
85 65.7 50.6 75.8
127 7.0 6.3 9.5





#43
Methyl Methacrylate
Concen: 9.107 ppbv
RT: 4.881 min Scan# 1481
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

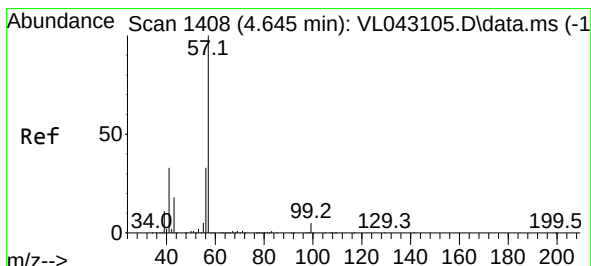
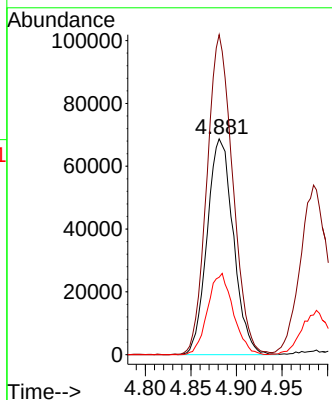
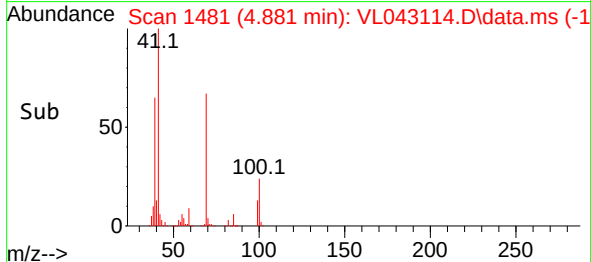
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



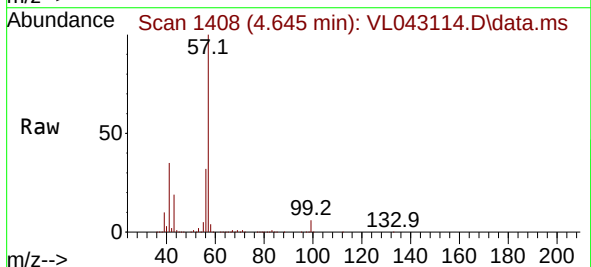
Tgt Ion: 69 Resp: 137710
Ion Ratio Lower Upper
69 100
41 145.9 120.5 180.7
100 36.7 29.0 43.4

Manual Integrations
APPROVED

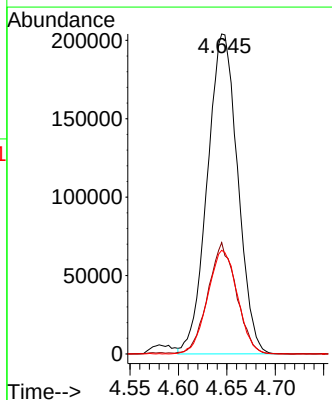
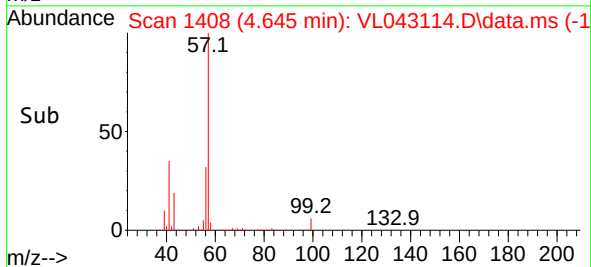
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025

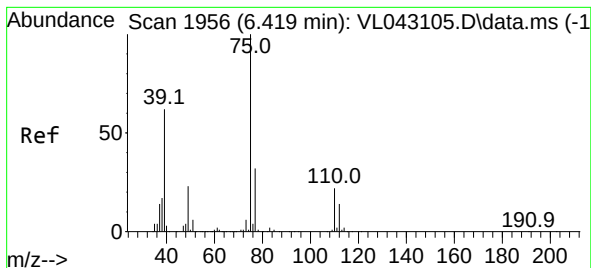


#44
2,2,4-Trimethylpentane
Concen: 8.854 ppbv
RT: 4.645 min Scan# 1408
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43



Tgt Ion: 57 Resp: 444749
Ion Ratio Lower Upper
57 100
41 33.1 26.3 39.5
56 32.0 25.9 38.9





#45

t-1,3-Dichloropropene

Concen: 9.477 ppbv

RT: 6.418 min Scan# 1956

Delta R.T. -0.000 min

Lab File: VL043114.D

Acq: 15 Oct 2025 08:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 75 Resp: 143812

Ion Ratio Lower Upper

75 100

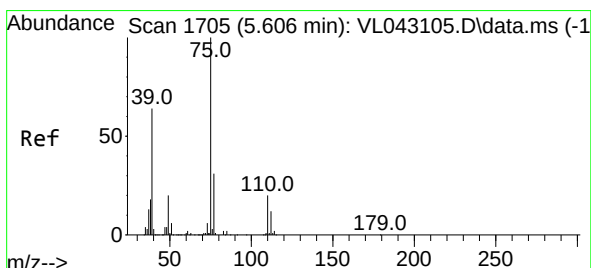
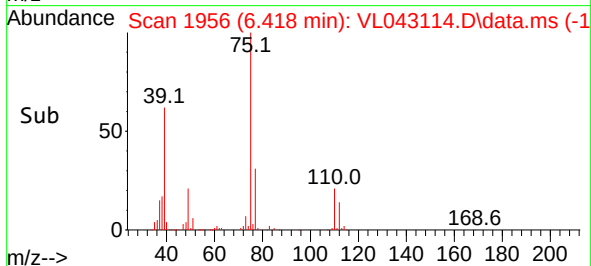
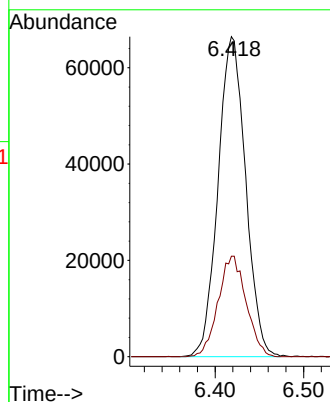
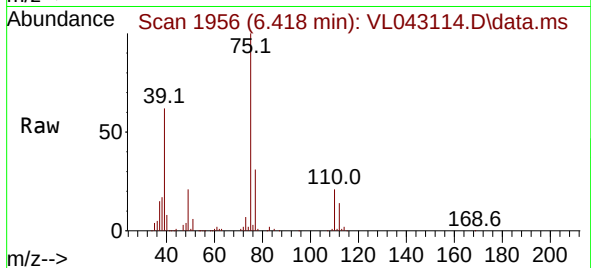
77 31.4 25.4 38.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/17/2025



#46

cis-1,3-Dichloropropene

Concen: 9.306 ppbv

RT: 5.603 min Scan# 1704

Delta R.T. -0.004 min

Lab File: VL043114.D

Acq: 15 Oct 2025 08:43

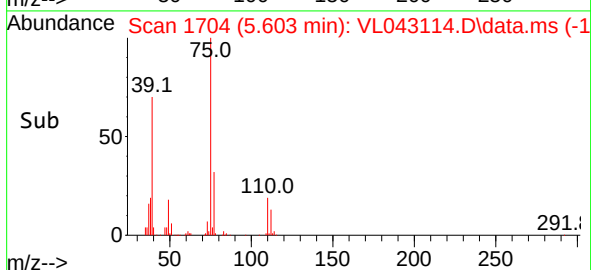
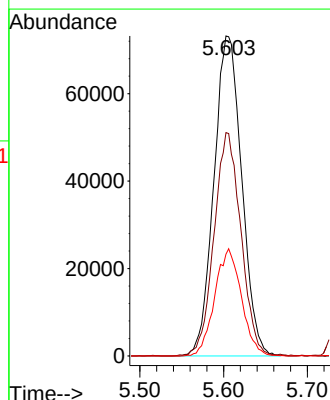
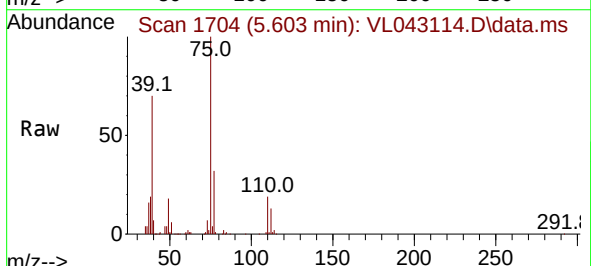
Tgt Ion: 75 Resp: 168699

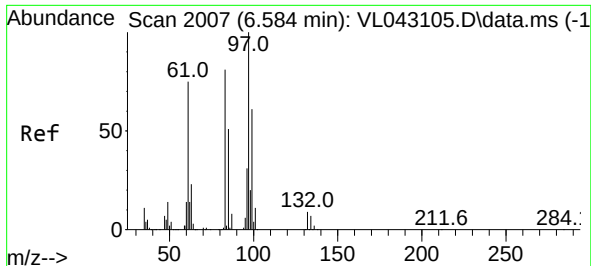
Ion Ratio Lower Upper

75 100

39 69.5 51.0 76.6

77 31.8 25.0 37.4





#47

1,1,2-Trichloroethane

Concen: 9.145 ppbv

RT: 6.583 min Scan# 2007

Delta R.T. -0.000 min

Lab File: VL043114.D

Acq: 15 Oct 2025 08:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 97 Resp: 10748

Ion Ratio Lower Upper

97 100

83 80.3 64.6 96.8

85 53.0 40.6 60.8

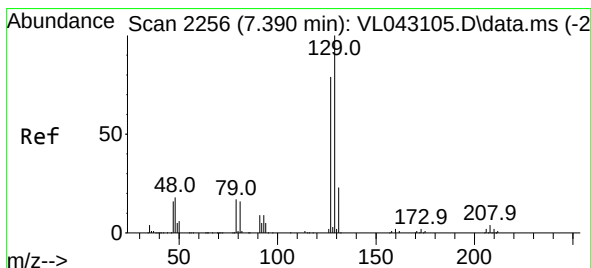
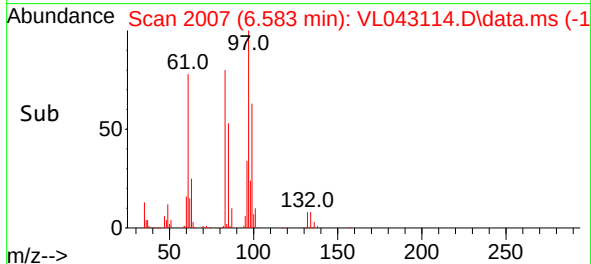
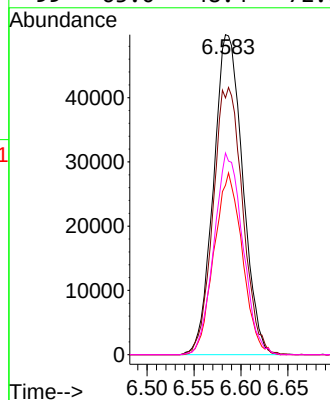
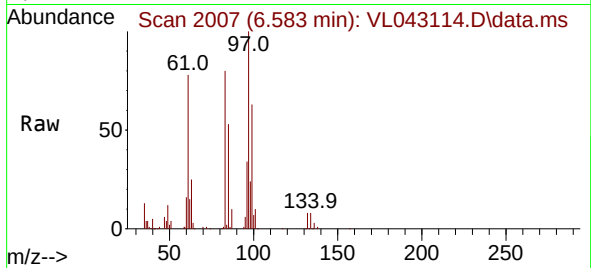
99 63.0 48.4 72.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/17/2025



#48

Dibromochloromethane

Concen: 9.504 ppbv

RT: 7.389 min Scan# 2256

Delta R.T. -0.000 min

Lab File: VL043114.D

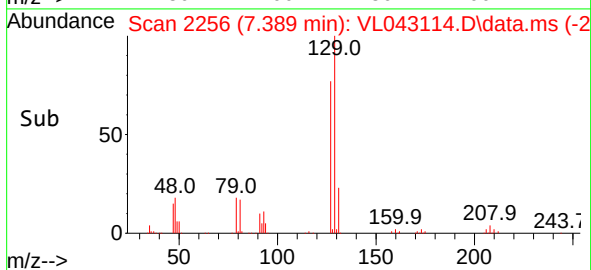
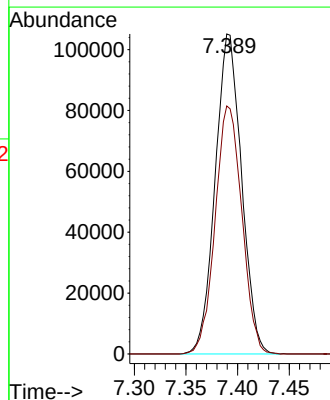
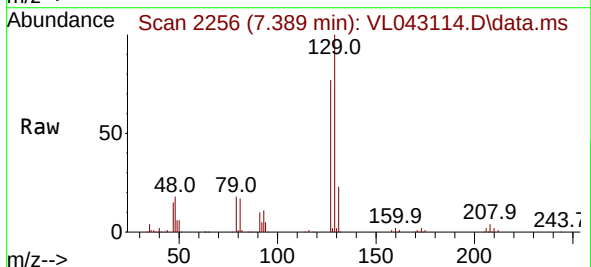
Acq: 15 Oct 2025 08:43

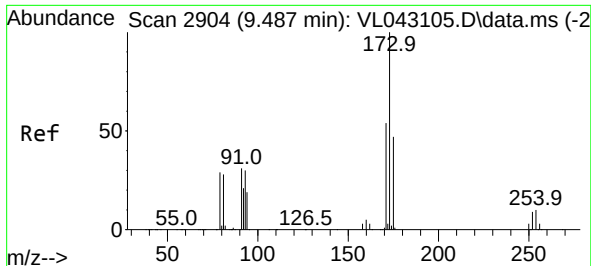
Tgt Ion:129 Resp: 186784

Ion Ratio Lower Upper

129 100

127 78.5 39.3 117.9





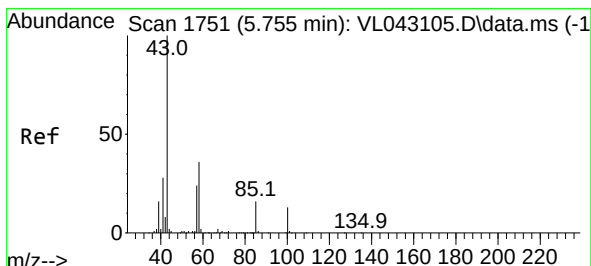
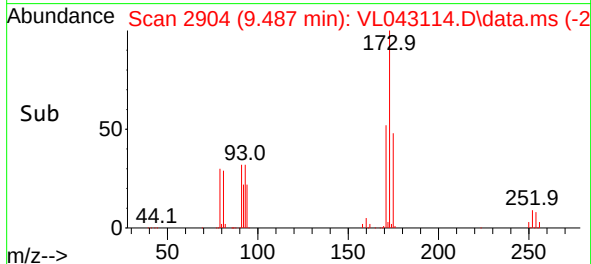
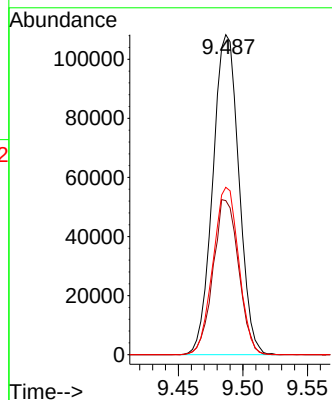
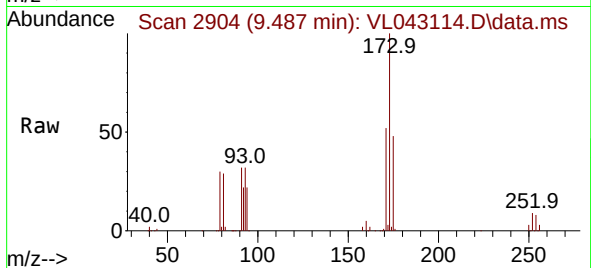
#49
Bromoform
Concen: 9.523 ppbv
RT: 9.487 min Scan# 2904
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

Instrument : MSVOA_L
ClientSampleId : VSTDCCC010

Tgt Ion:173 Resp: 15212
Ion Ratio Lower Upper
173 100
175 47.6 38.8 58.2
171 51.6 41.7 62.5

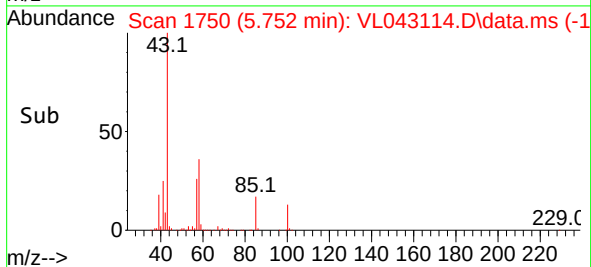
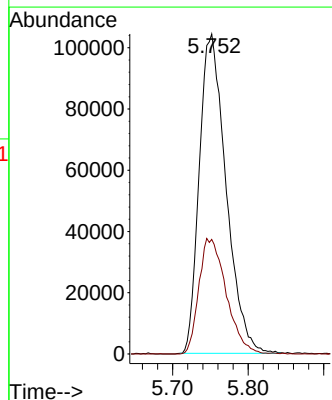
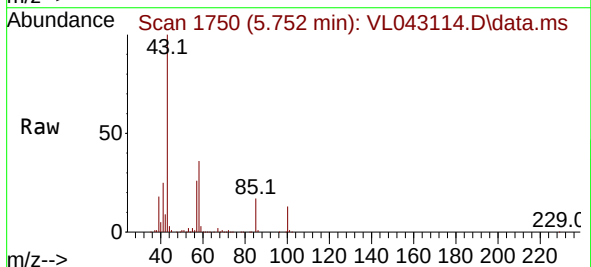
Manual Integrations
APPROVED

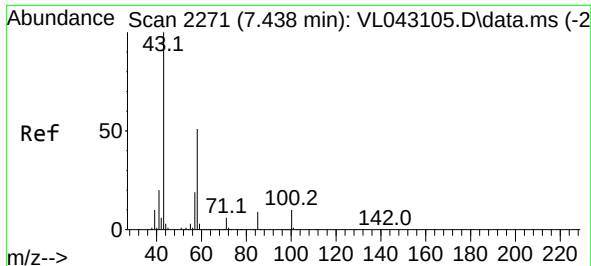
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025



#50
4-Methyl-2-Pentanone
Concen: 8.734 ppbv
RT: 5.752 min Scan# 1750
Delta R.T. -0.003 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

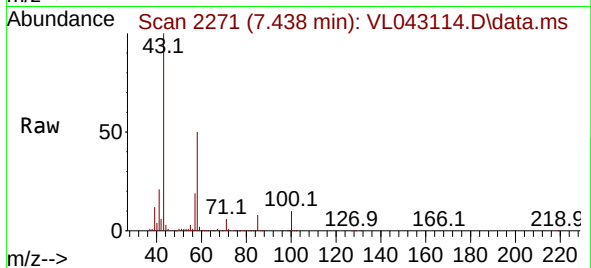
Tgt Ion: 43 Resp: 256116
Ion Ratio Lower Upper
43 100
58 37.1 29.1 43.7





#51
2-Hexanone
Concen: 9.057 ppbv
RT: 7.438 min Scan# 2192
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

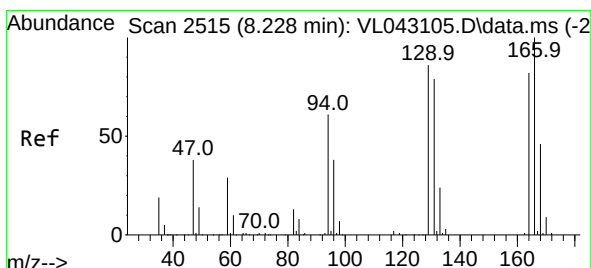
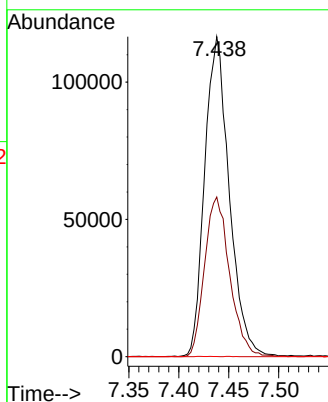
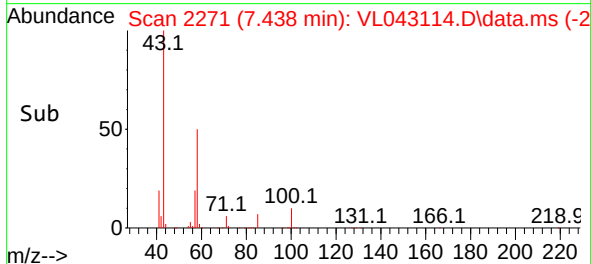
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



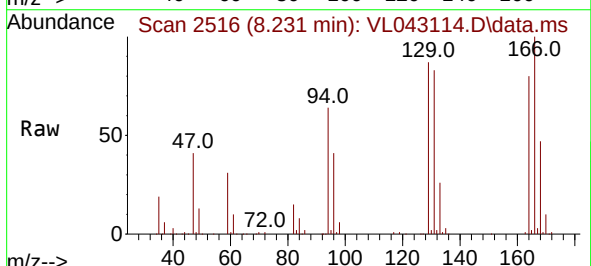
Tgt Ion: 43 Resp: 199219
Ion Ratio Lower Upper
43 100
58 51.1 40.4 60.6
98 0.1 0.1 0.1

Manual Integrations
APPROVED

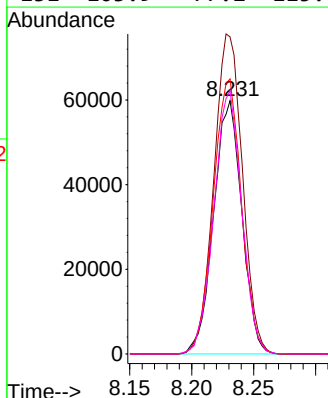
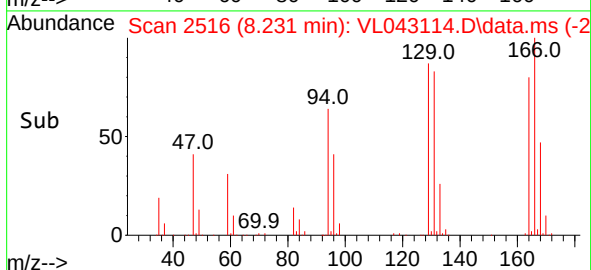
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025

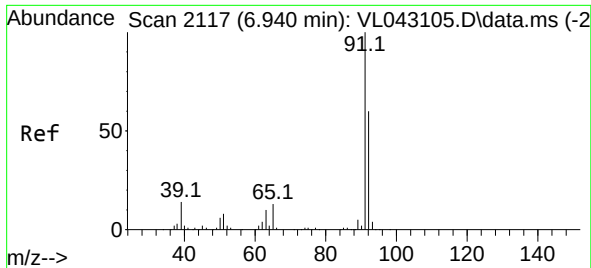


#52
Tetrachloroethene
Concen: 8.820 ppbv
RT: 8.231 min Scan# 2516
Delta R.T. 0.003 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43



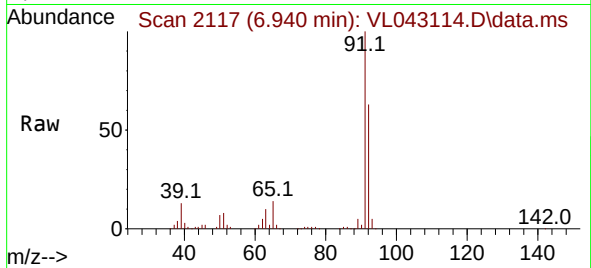
Tgt Ion:164 Resp: 94700
Ion Ratio Lower Upper
164 100
166 125.2 97.6 146.4
129 108.5 84.5 126.7
131 103.9 77.2 115.8





#53
Toluene
Concen: 9.007 ppbv
RT: 6.940 min Scan# 2117
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

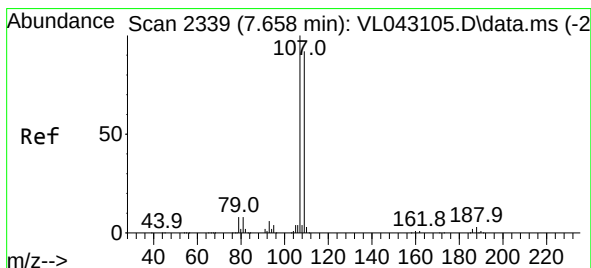
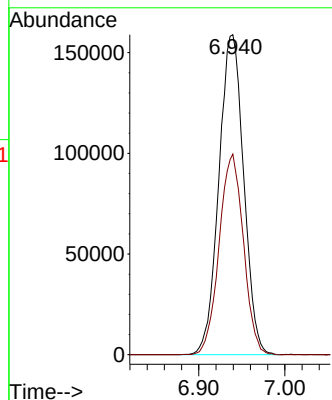
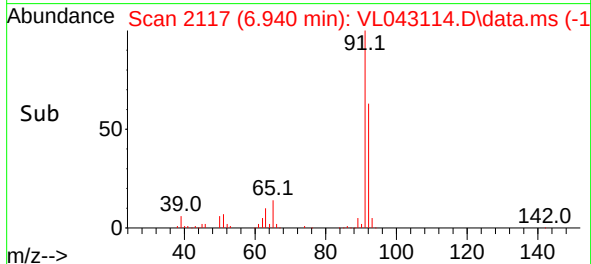
Instrument : MSVOA_L
ClientSampleId : VSTDCCC010



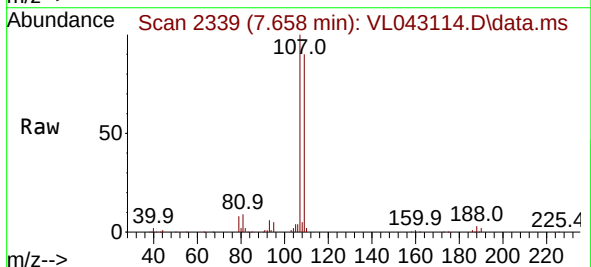
Tgt Ion: 91 Resp: 31826
Ion Ratio Lower Upper
91 100
92 61.3 48.8 73.2

Manual Integrations
APPROVED

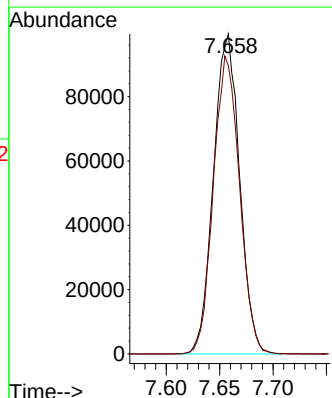
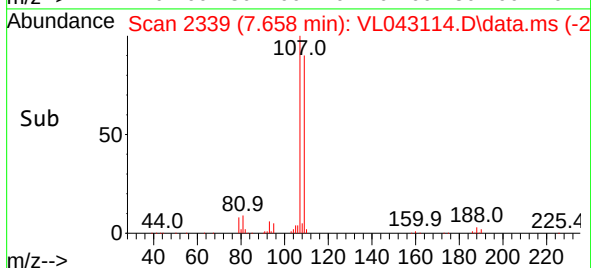
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025

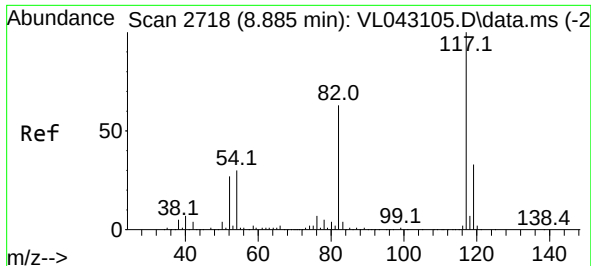


#54
1,2-Dibromoethane
Concen: 9.181 ppbv
RT: 7.658 min Scan# 2339
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43



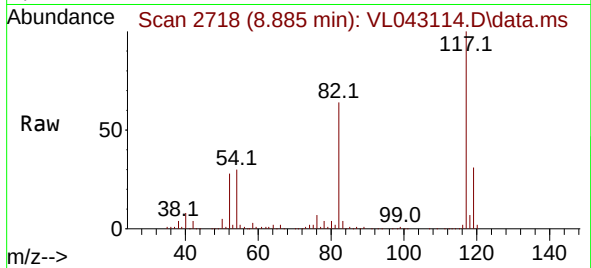
Tgt Ion:107 Resp: 169023
Ion Ratio Lower Upper
107 100
109 90.1 73.4 110.2





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

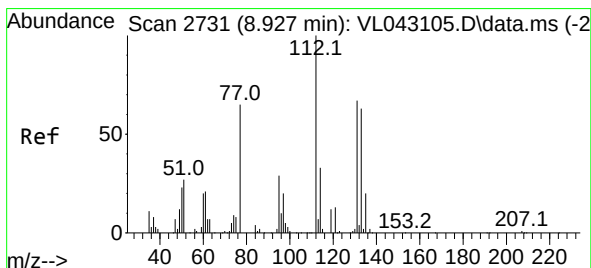
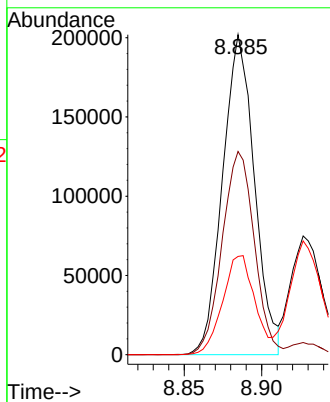
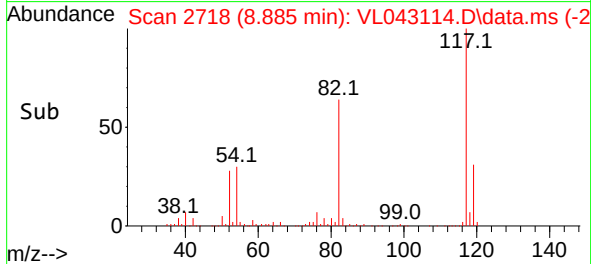
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion:117 Resp: 28886
Ion Ratio Lower Upper
117 100
82 67.9 53.8 80.8
119 31.6 25.4 38.0

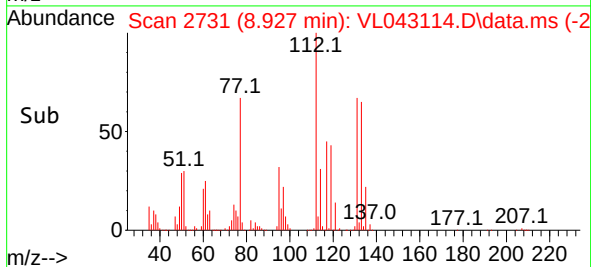
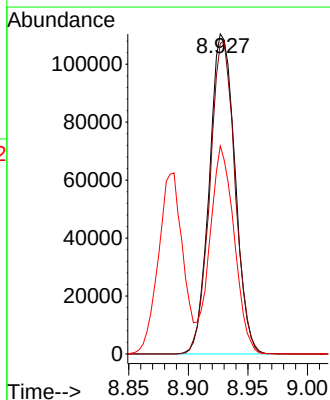
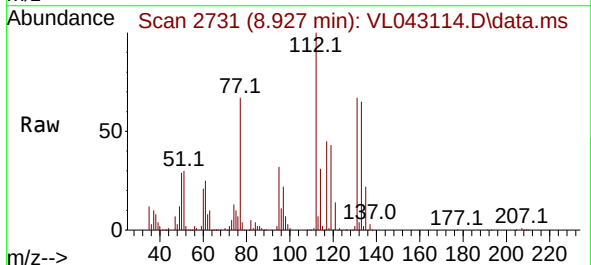
Manual Integrations
APPROVED

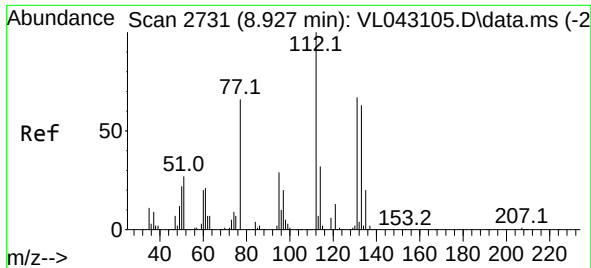
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025



#56
1,1,1,2-Tetrachloroethane
Concen: 9.073 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

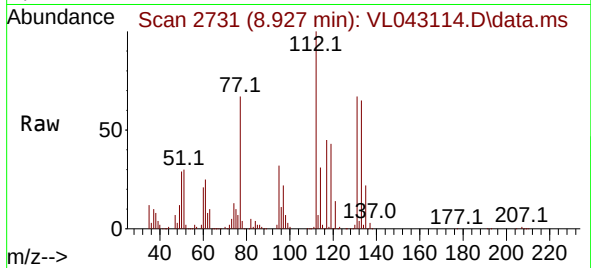
Tgt Ion:131 Resp: 165210
Ion Ratio Lower Upper
131 100
133 96.1 75.7 113.5
119 62.3 50.6 76.0





#57
Chlorobenzene
Concen: 8.750 ppbv
RT: 8.927 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

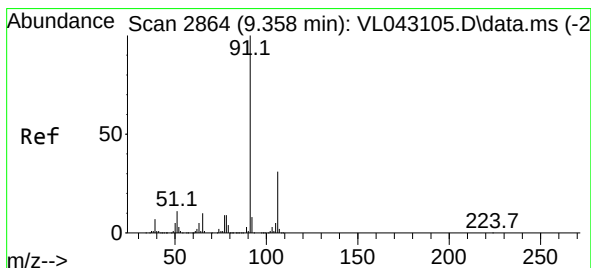
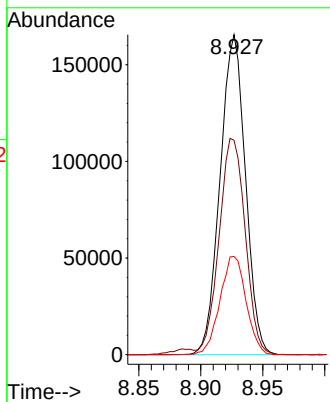
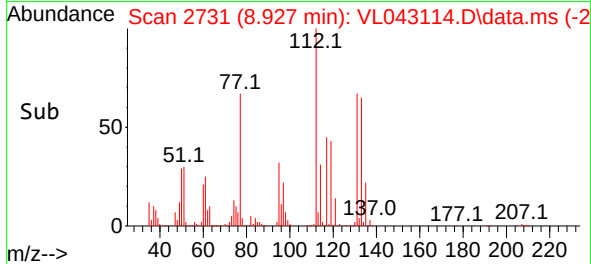
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion: 112 Resp: 23646
Ion Ratio Lower Upper
112 100
77 66.9 53.3 79.9
114 30.7 29.3 35.8

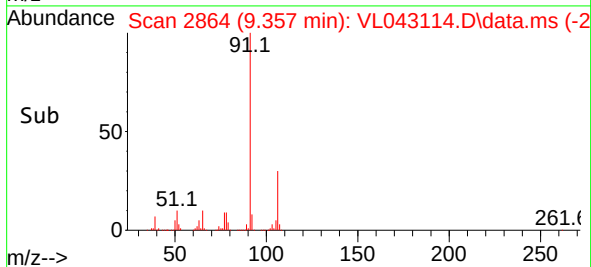
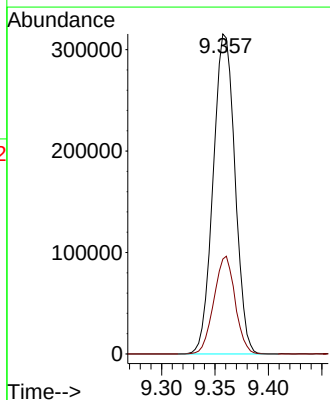
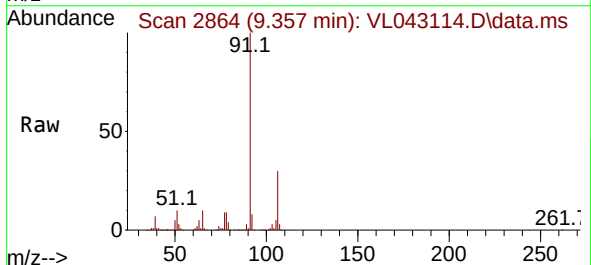
Manual Integrations
APPROVED

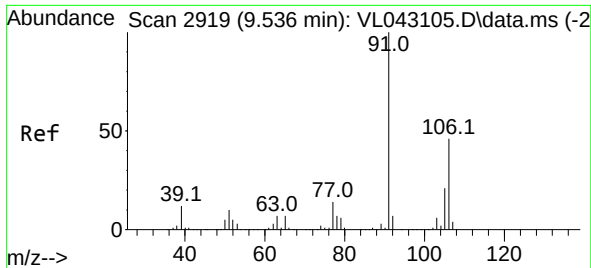
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025



#58
Ethyl Benzene
Concen: 9.043 ppbv
RT: 9.357 min Scan# 2864
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

Tgt Ion: 91 Resp: 448315
Ion Ratio Lower Upper
91 100
106 29.6 24.8 37.2





#59

m/p-Xylene

Concen: 17.839 ppbv m

RT: 9.555 min Scan# 2919

Delta R.T. 0.019 min

Lab File: VL043114.D

Acq: 15 Oct 2025 08:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 91 Resp: 705380

Ion Ratio Lower Upper

91 100

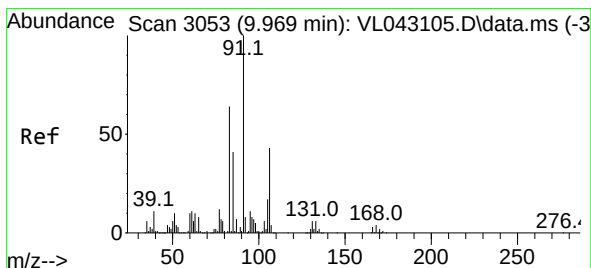
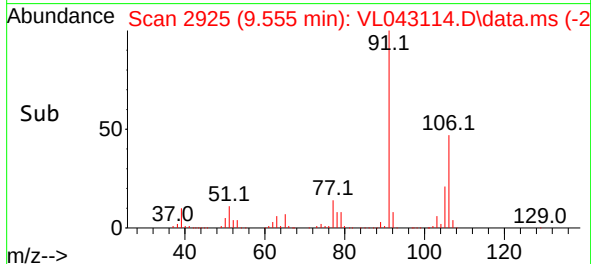
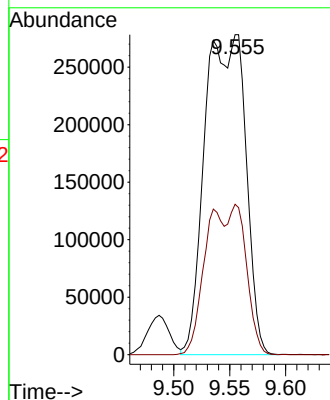
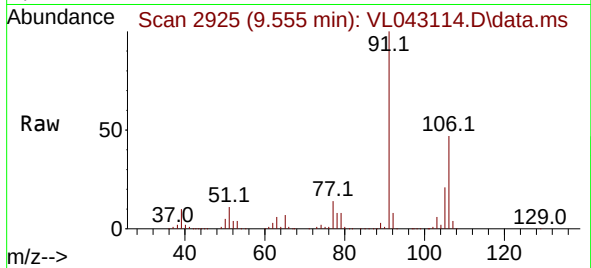
106 0.0 38.0 57.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/17/2025



#60

o-Xylene

Concen: 8.831 ppbv

RT: 9.969 min Scan# 3053

Delta R.T. -0.000 min

Lab File: VL043114.D

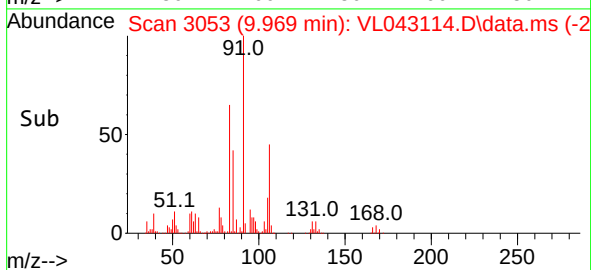
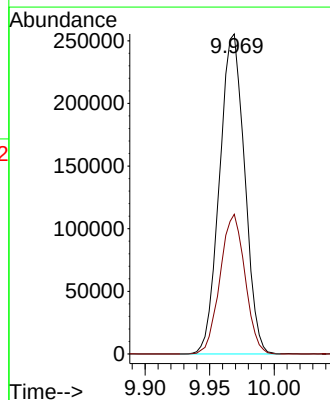
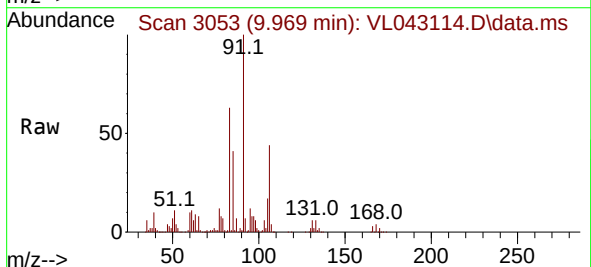
Acq: 15 Oct 2025 08:43

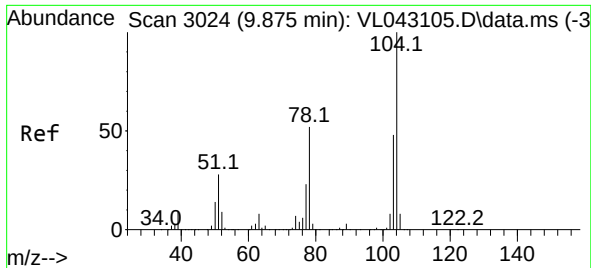
Tgt Ion: 91 Resp: 344891

Ion Ratio Lower Upper

91 100

106 43.3 21.9 65.8





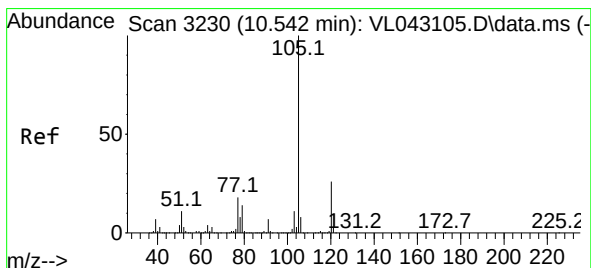
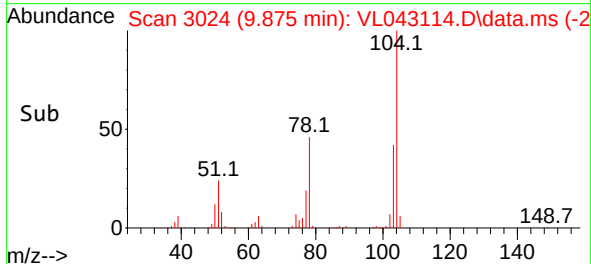
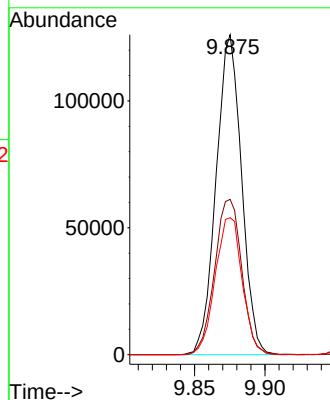
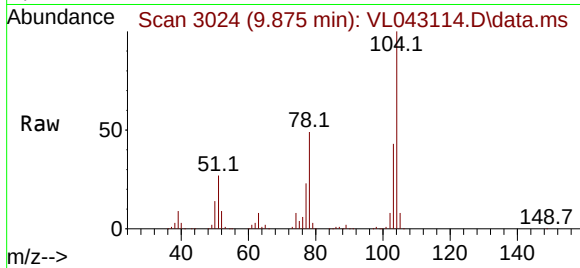
#61
Styrene
Concen: 8.997 ppbv
RT: 9.875 min Scan# 3024
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:104 Resp: 158629
Ion Ratio Lower Upper
104 100
78 51.5 40.2 60.2
103 45.6 36.9 55.3

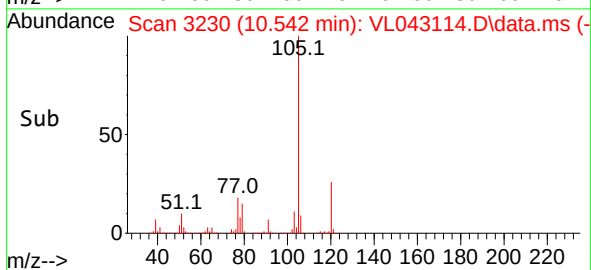
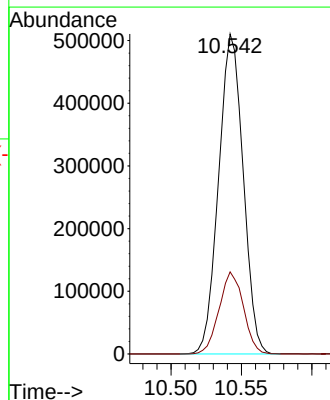
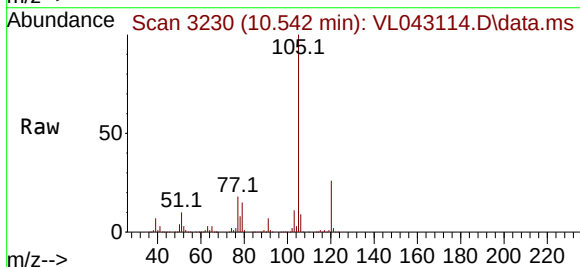
Manual Integrations
APPROVED

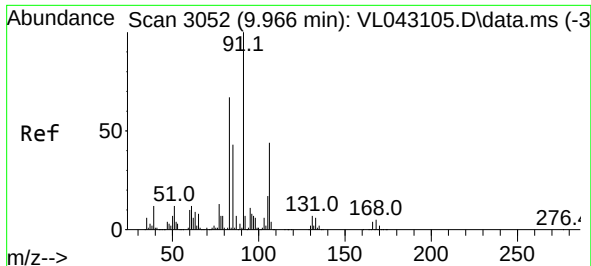
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025



#62
Isopropylbenzene
Concen: 8.784 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

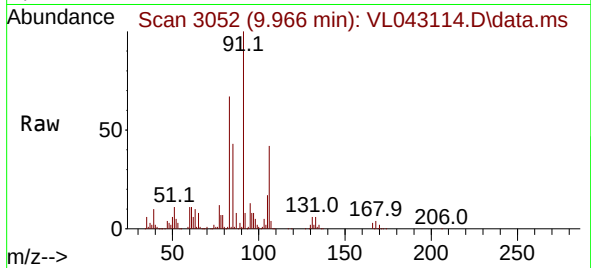
Tgt Ion:105 Resp: 619844
Ion Ratio Lower Upper
105 100
120 25.4 20.2 30.4





#63
1,1,2,2-Tetrachloroethane
Concen: 8.399 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

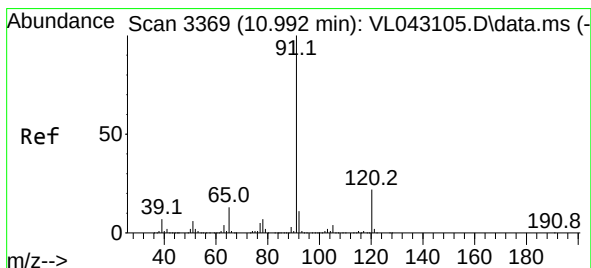
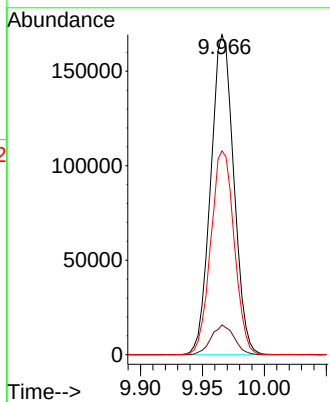
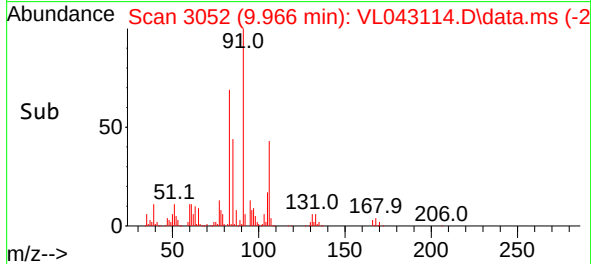
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



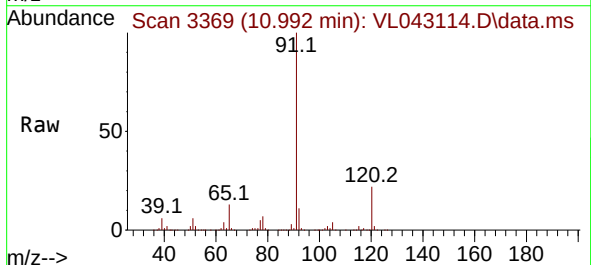
Tgt Ion: 83 Resp: 21964
Ion Ratio Lower Upper
83 100
131 9.3 4.8 14.3
85 64.9 32.0 96.0

Manual Integrations
APPROVED

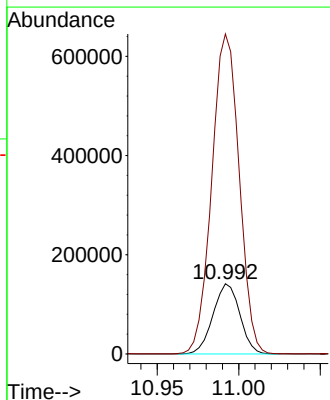
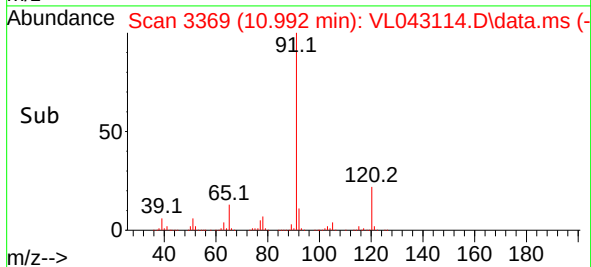
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025

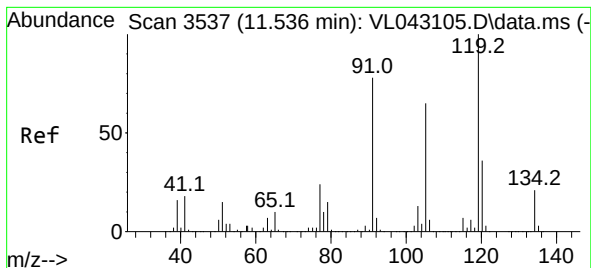


#64
n-propylbenzene
Concen: 8.652 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43



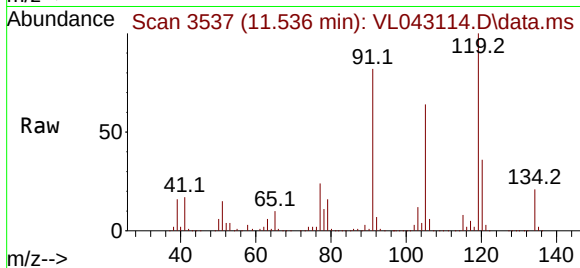
Tgt Ion:120 Resp: 161656
Ion Ratio Lower Upper
120 100
91 465.5 361.6 542.4





#65
tert-Butylbenzene
Concen: 8.430 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

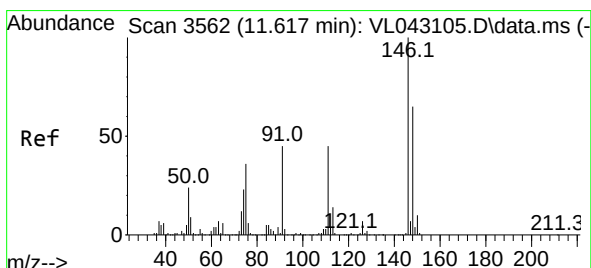
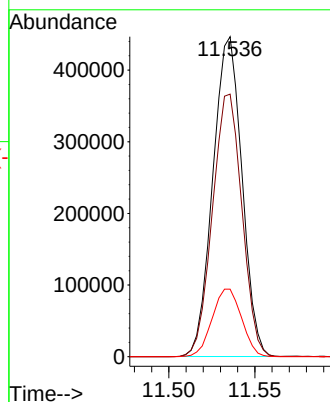
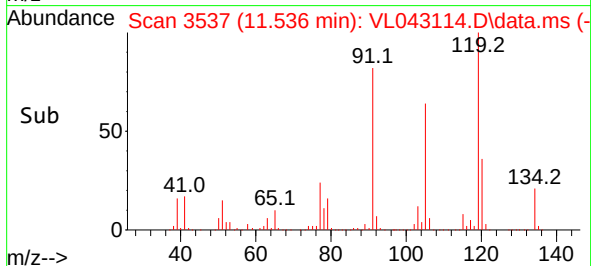
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



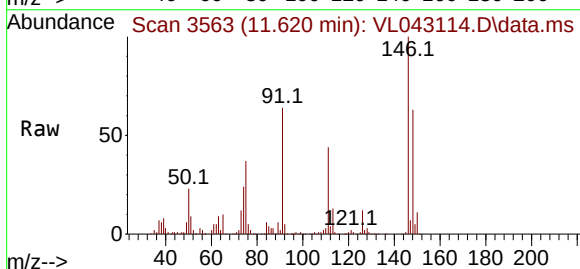
Tgt Ion: 119 Resp: 525334
Ion Ratio Lower Upper
119 100
91 83.2 63.4 95.0
134 21.4 17.3 25.9

Manual Integrations
APPROVED

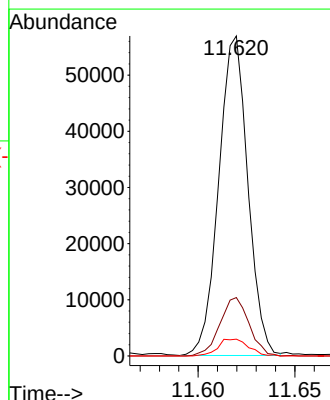
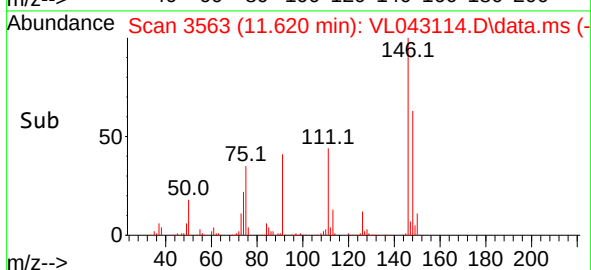
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025

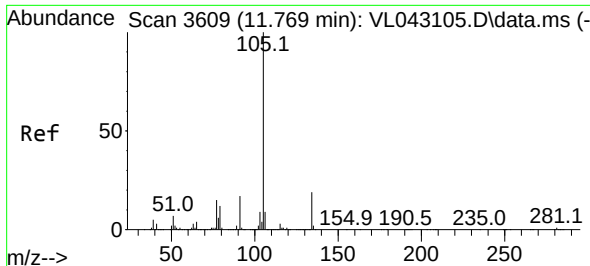


#66
Benzyl Chloride
Concen: 8.583 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. 0.003 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43



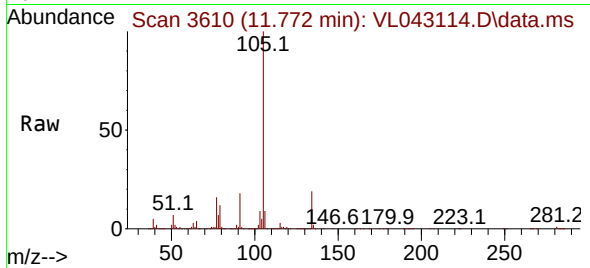
Tgt Ion: 91 Resp: 59531
Ion Ratio Lower Upper
91 100
126 18.3 14.6 22.0
128 5.5 4.6 6.8





#67
 sec-Butylbenzene
 Concen: 8.600 ppbv
 RT: 11.772 min Scan# 3610
 Delta R.T. 0.003 min
 Lab File: VL043114.D
 Acq: 15 Oct 2025 08:43

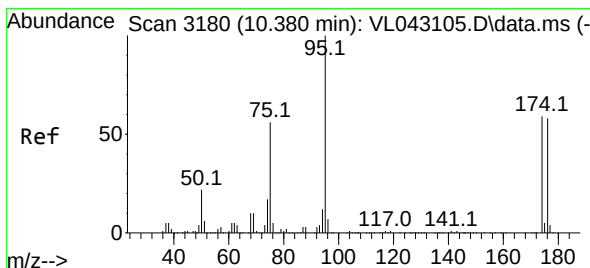
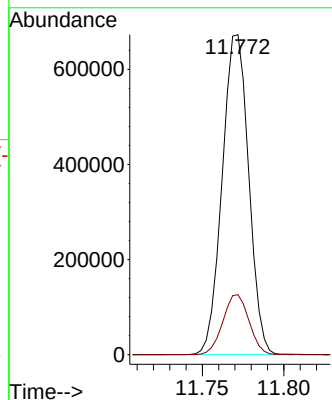
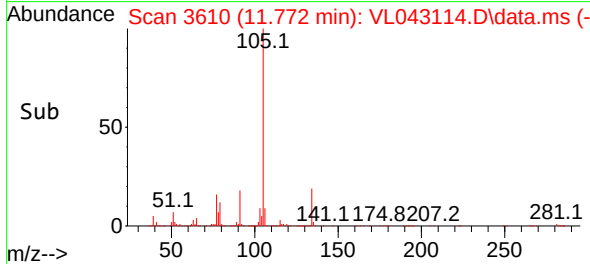
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010



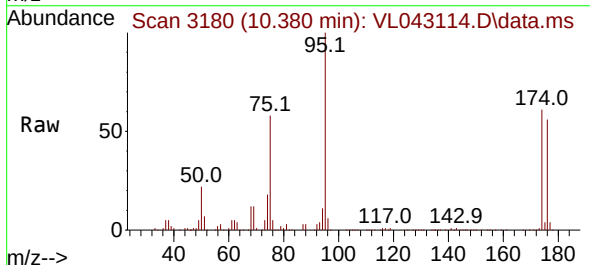
Tgt Ion:105 Resp: 760584
 Ion Ratio Lower Upper
 105 100
 134 18.5 15.5 23.3

Manual Integrations
 APPROVED

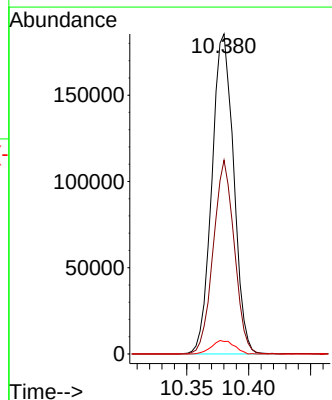
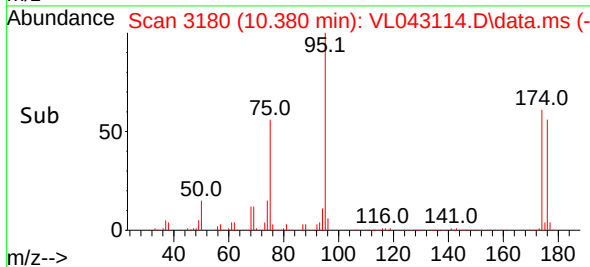
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/17/2025

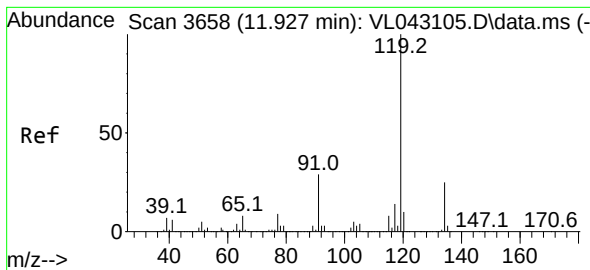


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.118 ppbv
 RT: 10.380 min Scan# 3180
 Delta R.T. -0.000 min
 Lab File: VL043114.D
 Acq: 15 Oct 2025 08:43



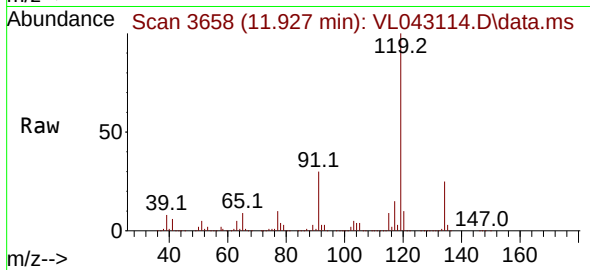
Tgt Ion: 95 Resp: 227182
 Ion Ratio Lower Upper
 95 100
 174 58.5 48.3 72.5
 175 4.4 3.8 5.8





#69
p-Isopropyltoluene
Concen: 8.513 ppbv
RT: 11.927 min Scan# 3658
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

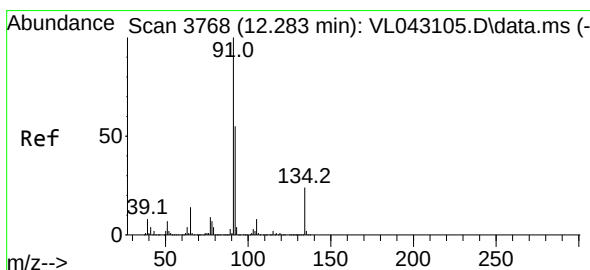
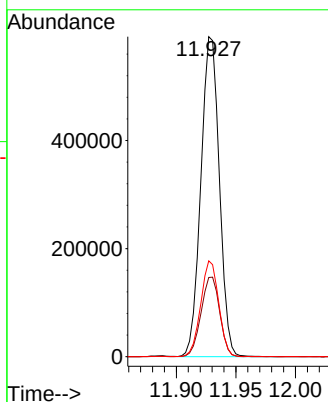
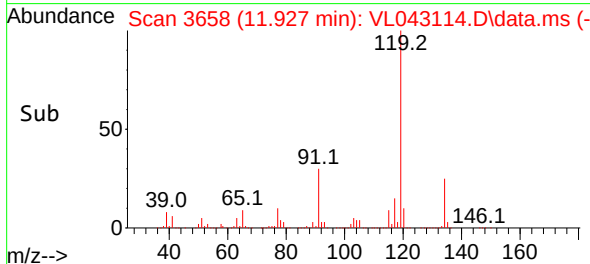
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



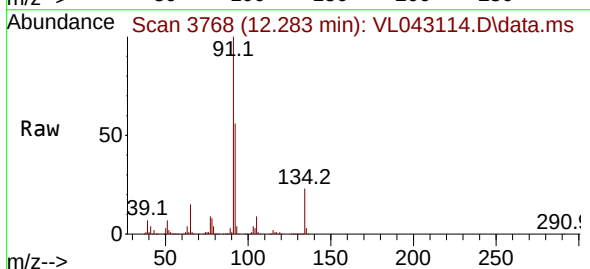
Tgt Ion:119 Resp: 639817
Ion Ratio Lower Upper
119 100
134 25.2 20.3 30.5
91 29.3 22.6 33.8

Manual Integrations
APPROVED

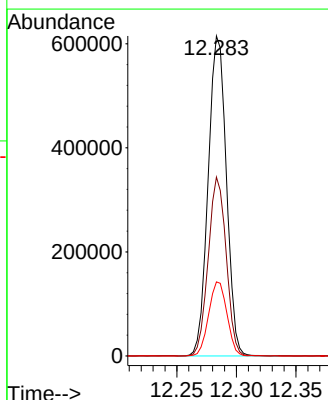
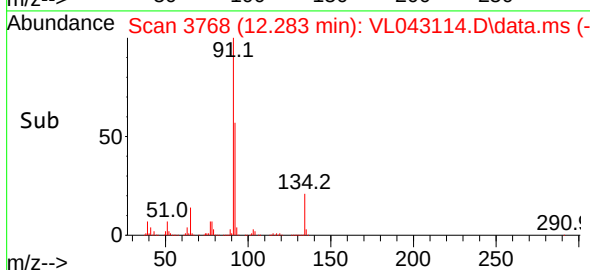
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025

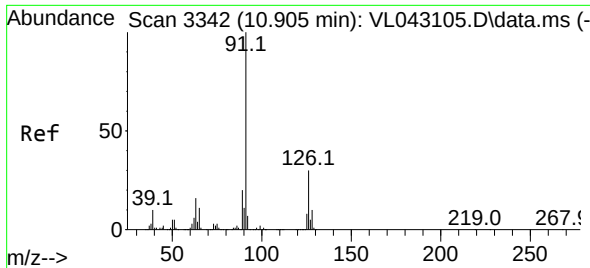


#70
n-Butylbenzene
Concen: 8.825 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43



Tgt Ion: 91 Resp: 653616
Ion Ratio Lower Upper
91 100
92 55.3 44.5 66.7
134 23.3 19.3 28.9





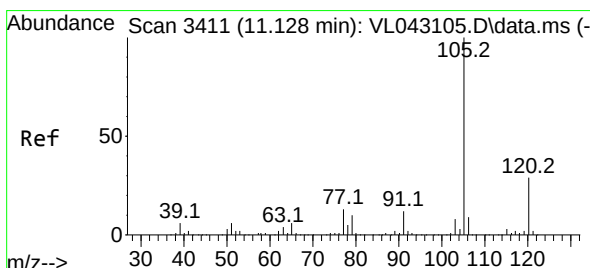
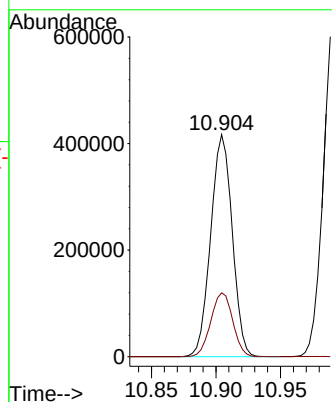
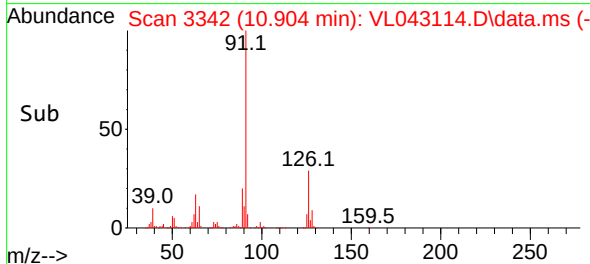
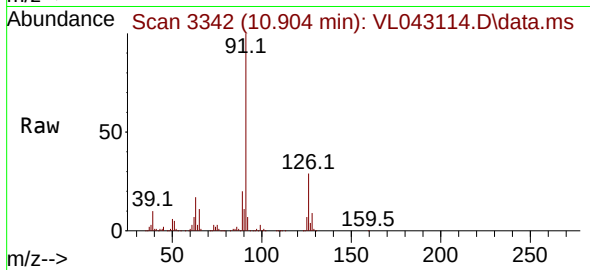
#71
2-Chlorotoluene
Concen: 8.976 ppbv
RT: 10.904 min Scan# 311
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 91 Resp: 48314
Ion Ratio Lower Upper
91 100
126 29.2 12.0 48.0

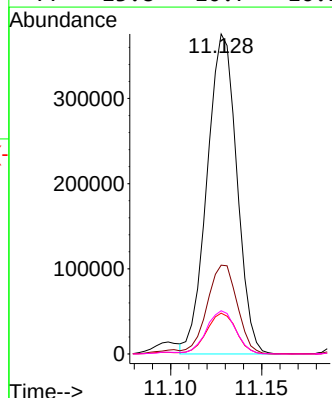
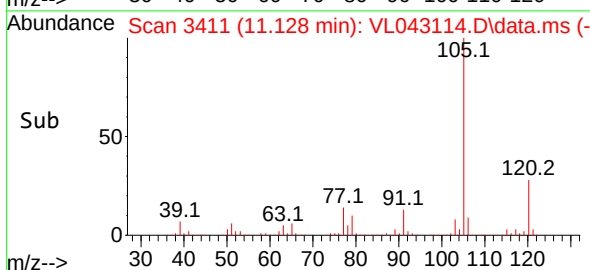
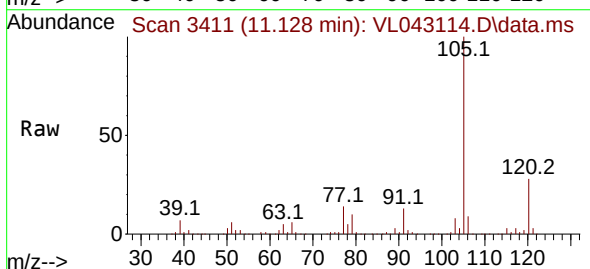
Manual Integrations
APPROVED

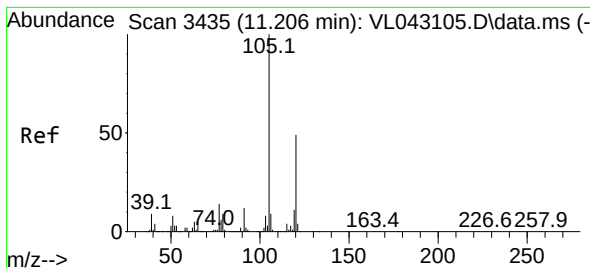
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025



#72
4-Ethyltoluene
Concen: 8.896 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

Tgt Ion:105 Resp: 427201
Ion Ratio Lower Upper
105 100
120 29.2 24.2 36.4
91 13.1 10.0 15.0
77 13.8 10.7 16.1





#73

1,3,5-Trimethylbenzene

Concen: 8.945 ppbv

RT: 11.205 min Scan# 3435

Delta R.T. -0.000 min

Lab File: VL043114.D

Acq: 15 Oct 2025 08:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion:105 Resp: 354264

Ion Ratio Lower Upper

105 100

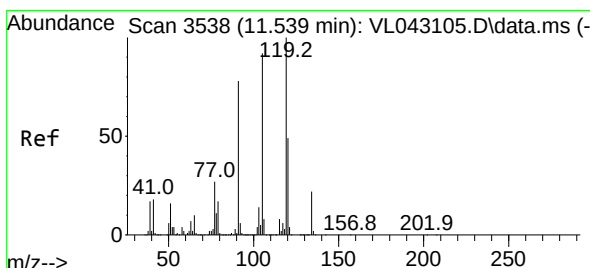
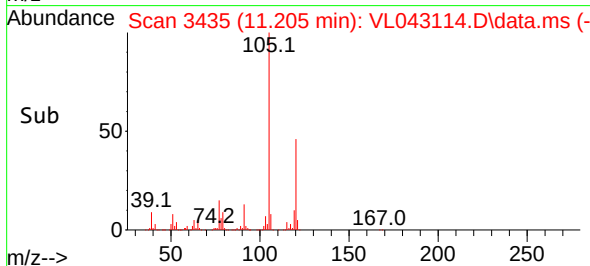
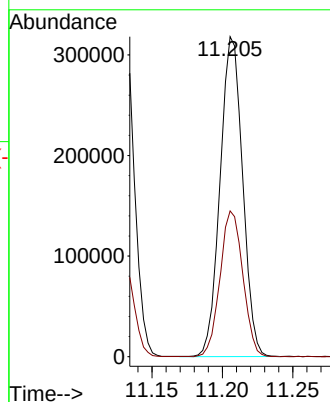
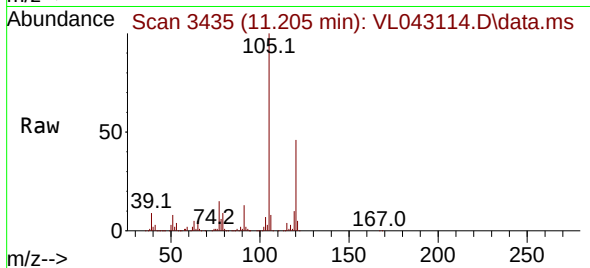
120 45.6 39.0 58.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/17/2025



#74

1,2,4-Trimethylbenzene

Concen: 8.537 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. -0.000 min

Lab File: VL043114.D

Acq: 15 Oct 2025 08:43

Tgt Ion:105 Resp: 378357

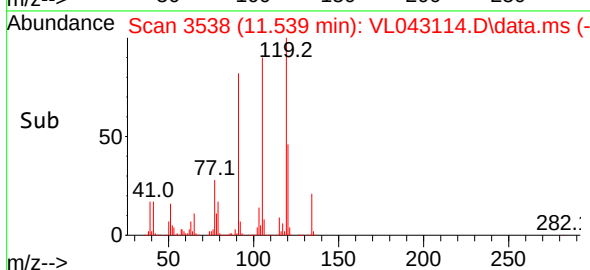
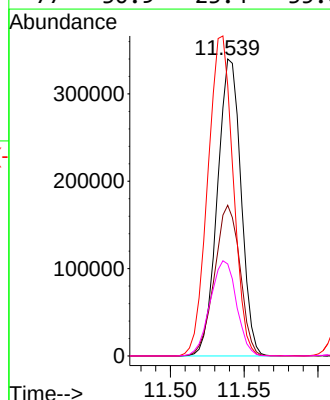
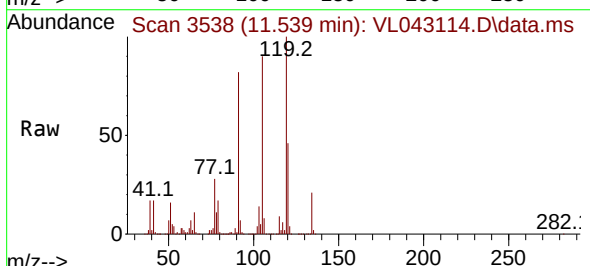
Ion Ratio Lower Upper

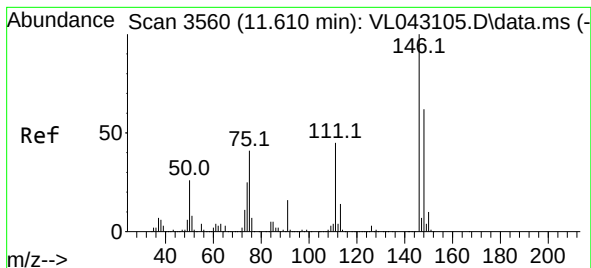
105 100

120 50.7 42.8 64.2

91 91.0 68.3 102.5

77 30.9 23.4 35.0





#75

1,3-Dichlorobenzene

Concen: 8.587 ppbv

RT: 11.610 min Scan# 3560

Delta R.T. -0.000 min

Lab File: VL043114.D

Acq: 15 Oct 2025 08:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

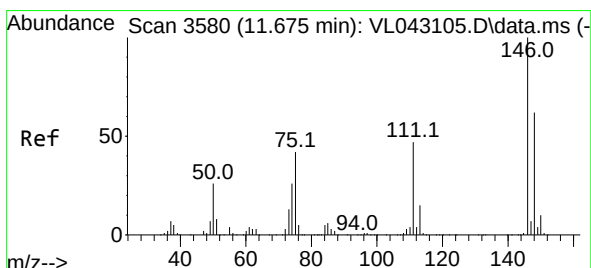
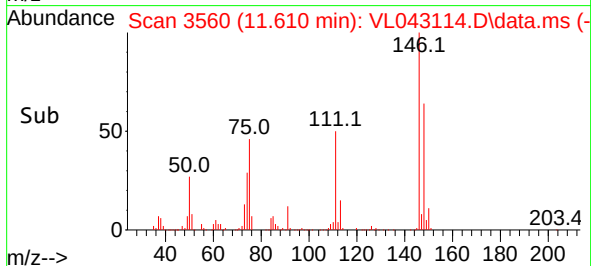
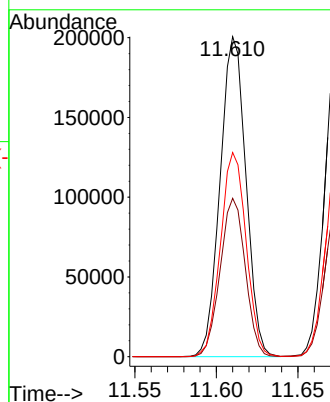
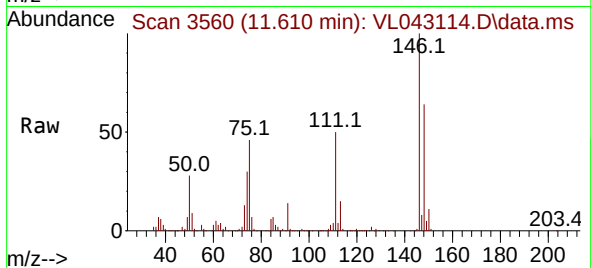
Tgt Ion:146 Resp: 220714

Ion	Ratio	Lower	Upper
146	100		
111	48.2	23.3	69.9
148	63.5	31.6	95.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025



#76

1,4-Dichlorobenzene

Concen: 8.750 ppbv

RT: 11.675 min Scan# 3580

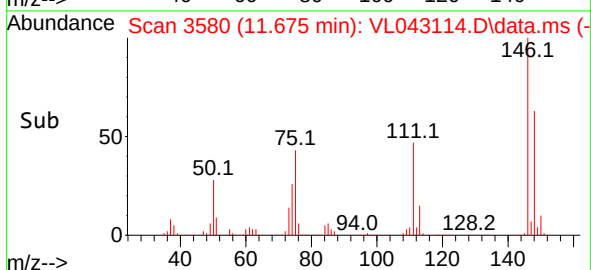
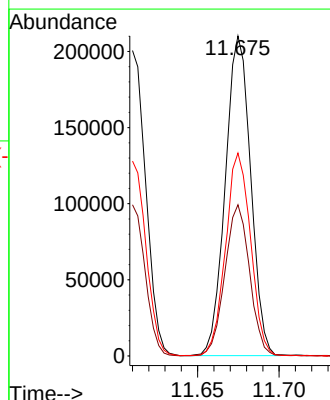
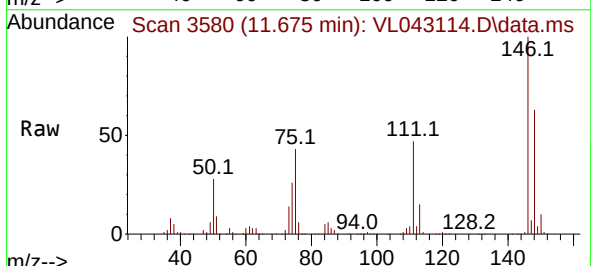
Delta R.T. -0.000 min

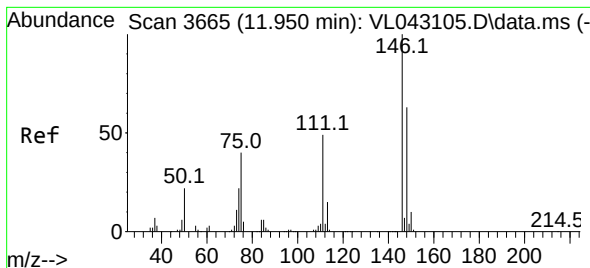
Lab File: VL043114.D

Acq: 15 Oct 2025 08:43

Tgt Ion:146 Resp: 226777

Ion	Ratio	Lower	Upper
146	100		
111	46.4	22.4	67.0
148	63.0	31.6	94.7





#77

1,2-Dichlorobenzene

Concen: 8.460 ppbv

RT: 11.950 min Scan# 3665

Delta R.T. -0.000 min

Lab File: VL043114.D

Acq: 15 Oct 2025 08:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion:146 Resp: 21038

Ion Ratio Lower Upper

146 100

111 49.8 24.0 72.0

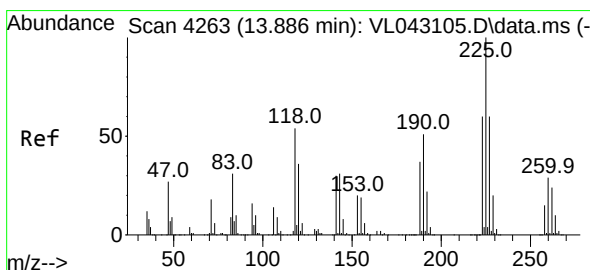
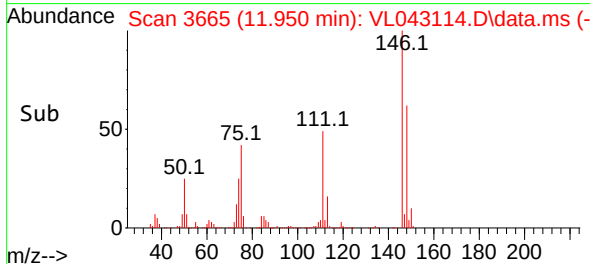
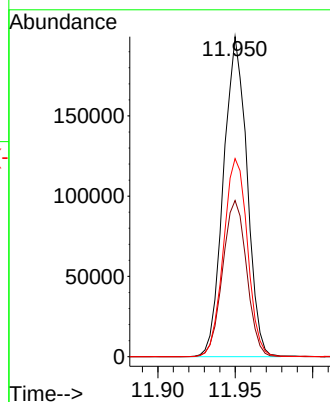
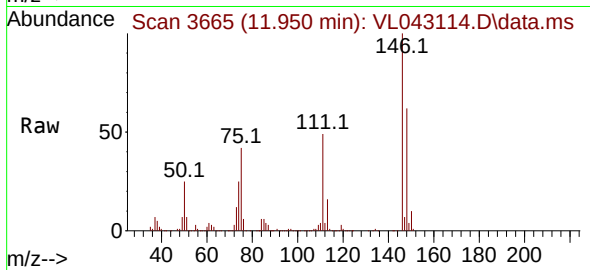
148 63.3 31.1 93.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/17/2025



#78

Hexachloro-1,3-Butadiene

Concen: 7.784 ppbv

RT: 13.885 min Scan# 4263

Delta R.T. -0.000 min

Lab File: VL043114.D

Acq: 15 Oct 2025 08:43

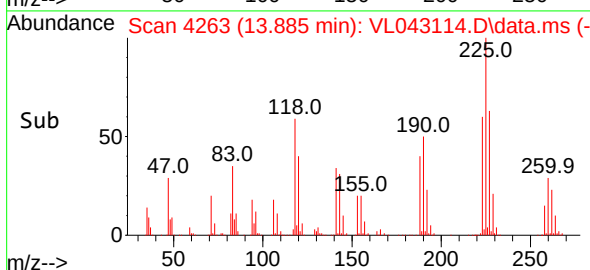
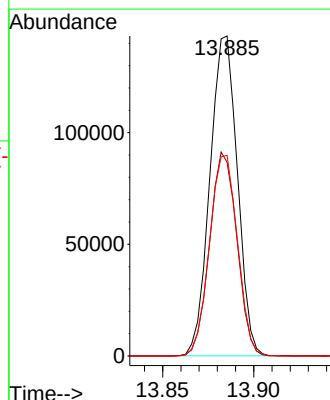
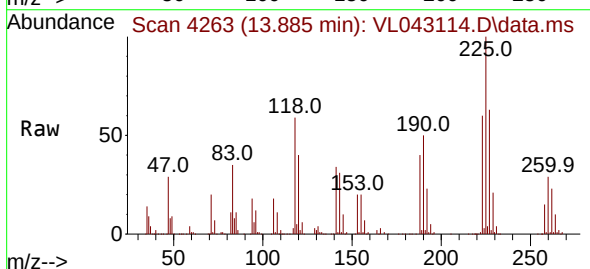
Tgt Ion:225 Resp: 149878

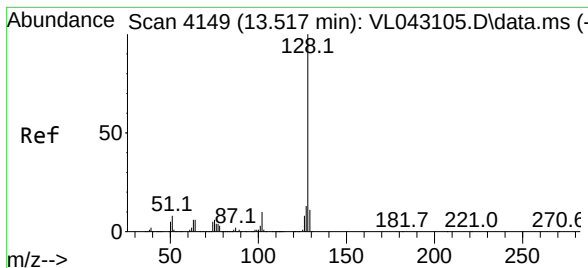
Ion Ratio Lower Upper

225 100

223 63.3 50.2 75.4

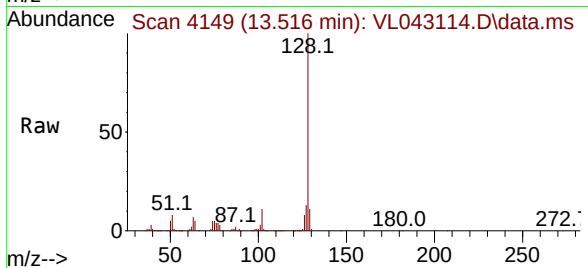
227 63.9 49.6 74.4





#79
Naphthalene
Concen: 9.238 ppbv
RT: 13.516 min Scan# 4149
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

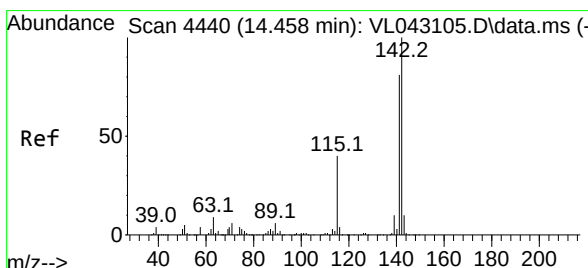
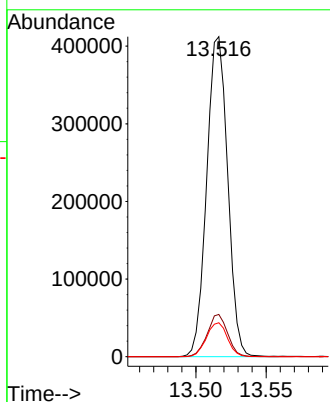
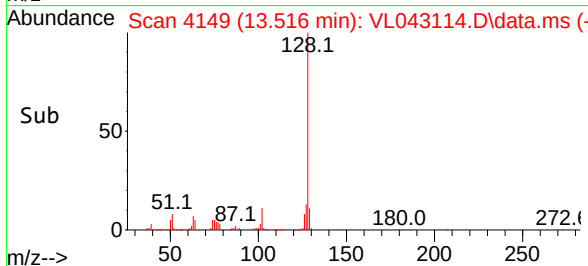
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



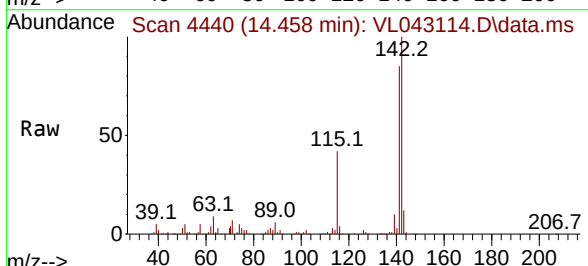
Tgt Ion:128 Resp: 427928
Ion Ratio Lower Upper
128 100
127 13.2 10.5 15.7
129 10.6 9.1 13.7

Manual Integrations
APPROVED

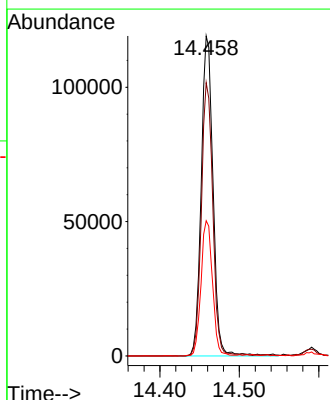
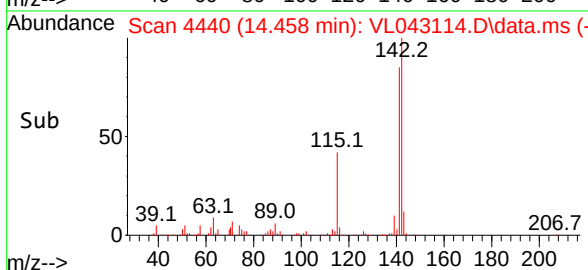
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025

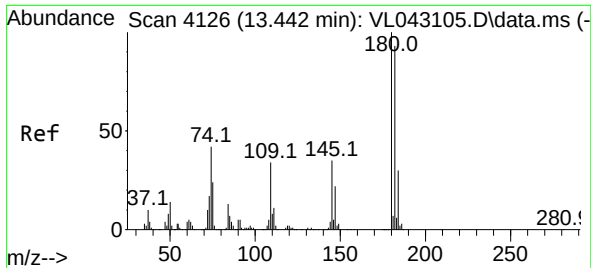


#80
Naphthalene,2-methyl-
Concen: 10.225 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43



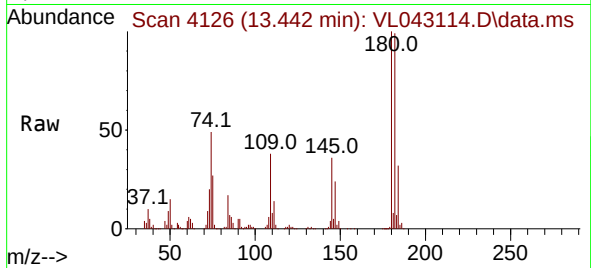
Tgt Ion:142 Resp: 123398
Ion Ratio Lower Upper
142 100
141 83.4 64.6 97.0
115 42.0 30.2 45.4





#81
 1,2,4-Trichlorobenzene
 Concen: 8.789 ppbv
 RT: 13.442 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL043114.D
 Acq: 15 Oct 2025 08:43

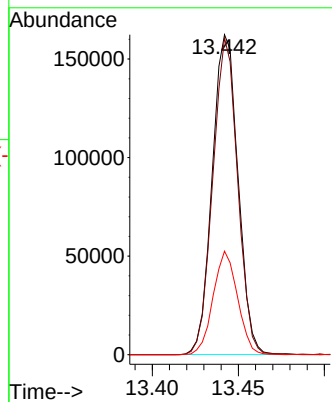
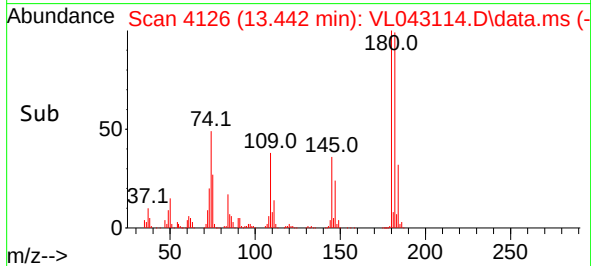
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



Tgt Ion:180 Resp: 168975
 Ion Ratio Lower Upper
 180 100
 182 95.6 75.5 113.3
 184 30.7 23.9 35.9

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/17/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101525\
 Data File : VL043114.D
 Acq On : 15 Oct 2025 08:43
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Oct 16 01:13:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 02:12:58 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	94	0.00
2 T	Dichlorodifluoromethane	1.422	1.369	3.7	101	0.00
3	Chlorodifluoromethane	1.538	1.384	10.0	90	0.00
4	Chloromethane	0.563	0.496	11.9	94	0.00
5 T	Vinyl Chloride	0.552	0.490	11.2	96	0.00
6 T	Bromomethane	0.303	0.281	7.3	102	0.00
7	Chloroethane	0.226	0.195	13.7	96	0.00
8 T	Dichlorotetrafluoroethane	1.149	1.113	3.1	101	0.00
9 T	Propene	0.682	0.576	15.5	83	0.00
10 T	Heptane	1.964	1.654	15.8	87	0.00
11 T	Trichlorofluoromethane	1.391	1.455	-4.6	111	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.120	1.112	0.7	108	0.00
13	Ethanol	0.252	0.187	25.8	92	0.00
14 T	Bromoethene	0.416	0.408	1.9	104	0.00
15 T	Acetone	1.348	1.151	14.6	100	0.00
16 T	1,3-Butadiene	0.642	0.575	10.4	98	0.00
17	tert-Butyl alcohol	1.850	1.780	3.8	100	0.00
18 T	1,1-Dichloroethene	0.488	0.494	-1.2	107	0.00
19 T	Isopropyl Alcohol	0.839	0.737	12.2	96	0.00
20 T	Methylene Chloride	0.533	0.436	18.2	101	0.00
21 T	Allyl Chloride	0.993	0.927	6.6	96	0.00
22 T	trans-1,2-Dichloroethene	0.583	0.565	3.1	104	0.00
23 T	Vinyl Acetate	1.974	1.820	7.8	106	0.00
24 T	1,1-Dichloroethane	1.127	1.110	1.5	102	0.00
25 T	Ethyl Acetate	3.342	2.957	11.5	89	0.00
26 T	Hexane	1.540	1.350	12.3	91	0.00
27 T	Carbon Disulfide	1.411	1.384	1.9	99	0.00
28 T	Methyl tert-Butyl Ether	0.701	0.651	7.1	105	0.00
29 T	Chloroform	2.232	2.111	5.4	98	0.00
30 T	Cyclohexane	1.344	1.193	11.2	93	0.00
31 T	cis-1,2-Dichloroethene	1.471	1.405	4.5	94	0.00
32 T	1,1,1-Trichloroethane	2.324	2.251	3.1	100	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	92	0.00
34 T	2-Butanone	0.672	0.599	10.9	91	0.00
35 T	Carbon Tetrachloride	0.719	0.698	2.9	99	0.00
36 T	Benzene	0.942	0.886	5.9	94	0.00
37 T	1,2-Dichloroethane	0.543	0.516	5.0	98	0.00
38 T	Trichloroethene	0.393	0.338	14.0	91	0.00
39 T	1,2-Dichloropropane	0.344	0.312	9.3	91	0.00
40 T	1,4-Dioxane	0.154	0.141	8.4	92	0.00
41 T	Tetrahydrofuran	0.376	0.325	13.6	88	0.00
42 T	Bromodichloromethane	0.751	0.731	2.7	97	0.00
43	Methyl Methacrylate	0.478	0.436	8.8	89	0.00
44 T	2,2,4-Trimethylpentane	1.589	1.407	11.5	89	0.00
45 T	t-1,3-Dichloropropene	0.480	0.455	5.2	91	0.00
46 T	cis-1,3-Dichloropropene	0.573	0.534	6.8	90	0.00
47 T	1,1,2-Trichloroethane	0.372	0.340	8.6	93	0.00
48 T	Dibromochloromethane	0.622	0.591	5.0	93	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101525\
 Data File : VL043114.D
 Acq On : 15 Oct 2025 08:43
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Oct 16 01:13:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 02:12:58 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	0.505	0.481	4.8	91	0.00
50 T	4-Methyl-2-Pentanone	0.928	0.810	12.7	86	0.00
51 T	2-Hexanone	0.696	0.630	9.5	84	0.00
52 T	Tetrachloroethene	0.340	0.300	11.8	89	0.00
53 T	Toluene	1.118	1.007	9.9	90	0.00
54 T	1,2-Dibromoethane	0.582	0.535	8.1	93	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	93	0.00
56	1,1,1,2-Tetrachloroethane	0.630	0.572	9.2	90	0.00
57 T	Chlorobenzene	0.936	0.819	12.5	90	0.00
58 T	Ethyl Benzene	1.716	1.552	9.6	91	0.00
59 T	m/p-Xylene	1.369	1.221	10.8	92	0.02
60 T	o-Xylene	1.352	1.194	11.7	91	0.00
61 T	Styrene	0.610	0.549	10.0	89	0.00
62	Isopropylbenzene	2.443	2.146	12.2	89	0.00
63 T	1,1,2,2-Tetrachloroethane	0.905	0.760	16.0	91	0.00
64	n-propylbenzene	0.647	0.560	13.4	89	0.00
65	tert-Butylbenzene	2.157	1.819	15.7	89	0.00
66 T	Benzyl Chloride	0.240	0.206	14.2	80	0.00
67	sec-Butylbenzene	3.062	2.633	14.0	91	0.00
68 S	1-Bromo-4-Fluorobenzene	0.777	0.786	-1.2	94	0.00
69	p-Isopropyltoluene	2.602	2.215	14.9	89	0.00
70	n-Butylbenzene	2.564	2.263	11.7	91	0.00
71	2-Chlorotoluene	1.863	1.673	10.2	92	0.00
72 T	4-Ethyltoluene	1.662	1.479	11.0	90	0.00
73 T	1,3,5-Trimethylbenzene	1.371	1.226	10.6	91	0.00
74 T	1,2,4-Trimethylbenzene	1.534	1.310	14.6	92	0.00
75 T	1,3-Dichlorobenzene	0.890	0.764	14.2	87	0.00
76 T	1,4-Dichlorobenzene	0.897	0.785	12.5	89	0.00
77 T	1,2-Dichlorobenzene	0.861	0.728	15.4	89	0.00
78 T	Hexachloro-1,3-Butadiene	0.667	0.519	22.2	87	0.00
79 T	Naphthalene	1.604	1.481	7.7	88	0.00
80 T	Naphthalene,2-methyl-	0.418	0.427	-2.2	83	0.00
81 T	1,2,4-Trichlorobenzene	0.666	0.585	12.2	86	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101525\
 Data File : VL043114.D
 Acq On : 15 Oct 2025 08:43
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Oct 16 01:13:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 02:12:58 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	10.000	10.000	0.0	94	0.00
2 T	Dichlorodifluoromethane	10.000	9.627	3.7	101	0.00
3	Chlorodifluoromethane	10.000	8.996	10.0	90	0.00
4	Chloromethane	10.000	8.801	12.0	94	0.00
5 T	Vinyl Chloride	10.000	8.871	11.3	96	0.00
6 T	Bromomethane	10.000	9.278	7.2	102	0.00
7	Chloroethane	10.000	8.627	13.7	96	0.00
8 T	Dichlorotetrafluoroethane	10.000	9.685	3.1	101	0.00
9 T	Propene	10.000	8.436	15.6	83	0.00
10 T	Heptane	10.000	8.423	15.8	87	0.00
11 T	Trichlorofluoromethane	10.000	10.460	-4.6	111	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	9.930	0.7	108	0.00
13	Ethanol	10.000	7.411	25.9	92	0.00
14 T	Bromoethene	10.000	9.804	2.0	104	0.00
15 T	Acetone	10.000	8.539	14.6	100	0.00
16 T	1,3-Butadiene	10.000	8.944	10.6	98	0.00
17	tert-Butyl alcohol	10.000	9.621	3.8	100	0.00
18 T	1,1-Dichloroethene	10.000	10.131	-1.3	107	0.00
19 T	Isopropyl Alcohol	10.000	8.781	12.2	96	0.00
20 T	Methylene Chloride	10.000	8.183	18.2	101	0.00
21 T	Allyl Chloride	10.000	9.338	6.6	96	0.00
22 T	trans-1,2-Dichloroethene	10.000	9.681	3.2	104	0.00
23 T	Vinyl Acetate	10.000	9.216	7.8	106	0.00
24 T	1,1-Dichloroethane	10.000	9.847	1.5	102	0.00
25 T	Ethyl Acetate	10.000	8.848	11.5	89	0.00
26 T	Hexane	10.000	8.766	12.3	91	0.00
27 T	Carbon Disulfide	10.000	9.810	1.9	99	0.00
28 T	Methyl tert-Butyl Ether	10.000	9.290	7.1	105	0.00
29 T	Chloroform	10.000	9.458	5.4	98	0.00
30 T	Cyclohexane	10.000	8.872	11.3	93	0.00
31 T	cis-1,2-Dichloroethene	10.000	9.551	4.5	94	0.00
32 T	1,1,1-Trichloroethane	10.000	9.688	3.1	100	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	92	0.00
34 T	2-Butanone	10.000	8.917	10.8	91	0.00
35 T	Carbon Tetrachloride	10.000	9.702	3.0	99	0.00
36 T	Benzene	10.000	9.405	6.0	94	0.00
37 T	1,2-Dichloroethane	10.000	9.506	4.9	98	0.00
38 T	Trichloroethene	10.000	8.597	14.0	91	0.00
39 T	1,2-Dichloropropane	10.000	9.057	9.4	91	0.00
40 T	1,4-Dioxane	10.000	9.142	8.6	92	0.00
41 T	Tetrahydrofuran	10.000	8.646	13.5	88	0.00
42 T	Bromodichloromethane	10.000	9.731	2.7	97	0.00
43	Methyl Methacrylate	10.000	9.107	8.9	89	0.00
44 T	2,2,4-Trimethylpentane	10.000	8.854	11.5	89	0.00
45 T	t-1,3-Dichloropropene	10.000	9.477	5.2	91	0.00
46 T	cis-1,3-Dichloropropene	10.000	9.306	6.9	90	0.00
47 T	1,1,2-Trichloroethane	10.000	9.145	8.6	93	0.00
48 T	Dibromochloromethane	10.000	9.504	5.0	93	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101525\
 Data File : VL043114.D
 Acq On : 15 Oct 2025 08:43
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Oct 16 01:13:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 02:12:58 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	9.523	4.8	91	0.00
50 T	4-Methyl-2-Pentanone	10.000	8.734	12.7	86	0.00
51 T	2-Hexanone	10.000	9.057	9.4	84	0.00
52 T	Tetrachloroethene	10.000	8.820	11.8	89	0.00
53 T	Toluene	10.000	9.007	9.9	90	0.00
54 T	1,2-Dibromoethane	10.000	9.181	8.2	93	0.00

55 I	Chlorobenzene-d5	10.000	10.000	0.0	93	0.00
56	1,1,1,2-Tetrachloroethane	10.000	9.073	9.3	90	0.00
57 T	Chlorobenzene	10.000	8.750	12.5	90	0.00
58 T	Ethyl Benzene	10.000	9.043	9.6	91	0.00
59 T	m/p-Xylene	20.000	17.839	10.8	92	0.02
60 T	o-Xylene	10.000	8.831	11.7	91	0.00
61 T	Styrene	10.000	8.997	10.0	89	0.00
62	Isopropylbenzene	10.000	8.784	12.2	89	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	8.399	16.0	91	0.00
64	n-propylbenzene	10.000	8.652	13.5	89	0.00
65	tert-Butylbenzene	10.000	8.430	15.7	89	0.00
66 T	Benzyl Chloride	10.000	8.583	14.2	80	0.00
67	sec-Butylbenzene	10.000	8.600	14.0	91	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	10.118	-1.2	94	0.00
69	p-Isopropyltoluene	10.000	8.513	14.9	89	0.00
70	n-Butylbenzene	10.000	8.825	11.8	91	0.00
71	2-Chlorotoluene	10.000	8.976	10.2	92	0.00
72 T	4-Ethyltoluene	10.000	8.896	11.0	90	0.00
73 T	1,3,5-Trimethylbenzene	10.000	8.945	10.5	91	0.00
74 T	1,2,4-Trimethylbenzene	10.000	8.537	14.6	92	0.00
75 T	1,3-Dichlorobenzene	10.000	8.587	14.1	87	0.00
76 T	1,4-Dichlorobenzene	10.000	8.750	12.5	89	0.00
77 T	1,2-Dichlorobenzene	10.000	8.460	15.4	89	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	7.784	22.2	87	0.00
79 T	Naphthalene	10.000	9.238	7.6	88	0.00
80 T	Naphthalene,2-methyl-	10.000	10.225	-2.2	83	0.00
81 T	1,2,4-Trichlorobenzene	10.000	8.789	12.1	86	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



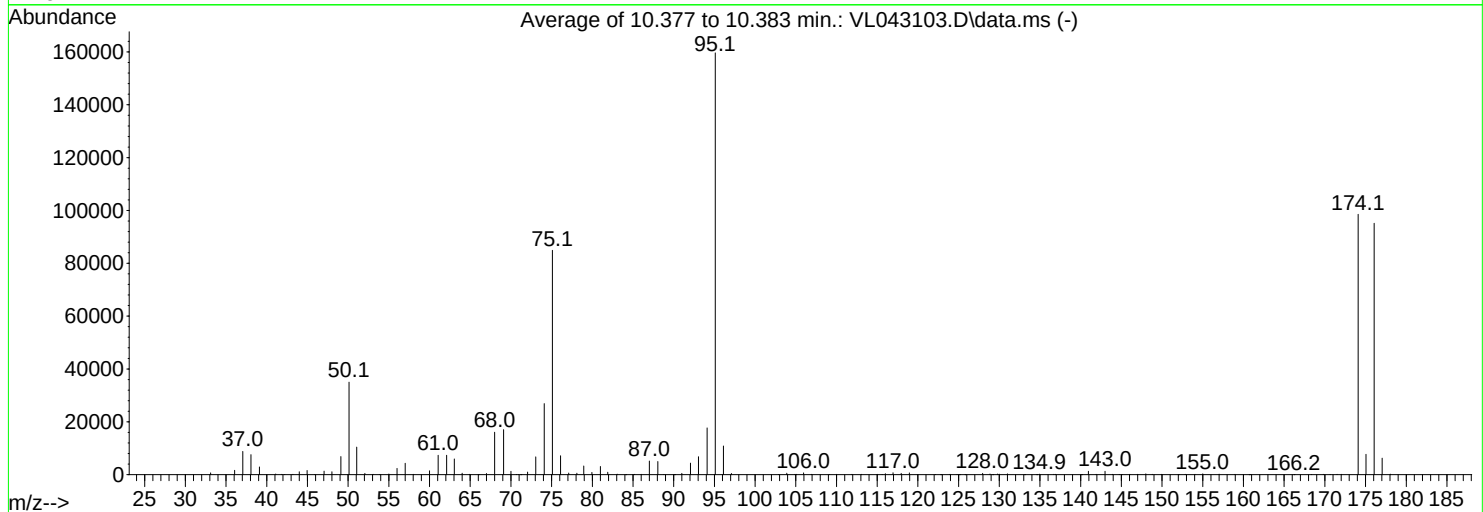
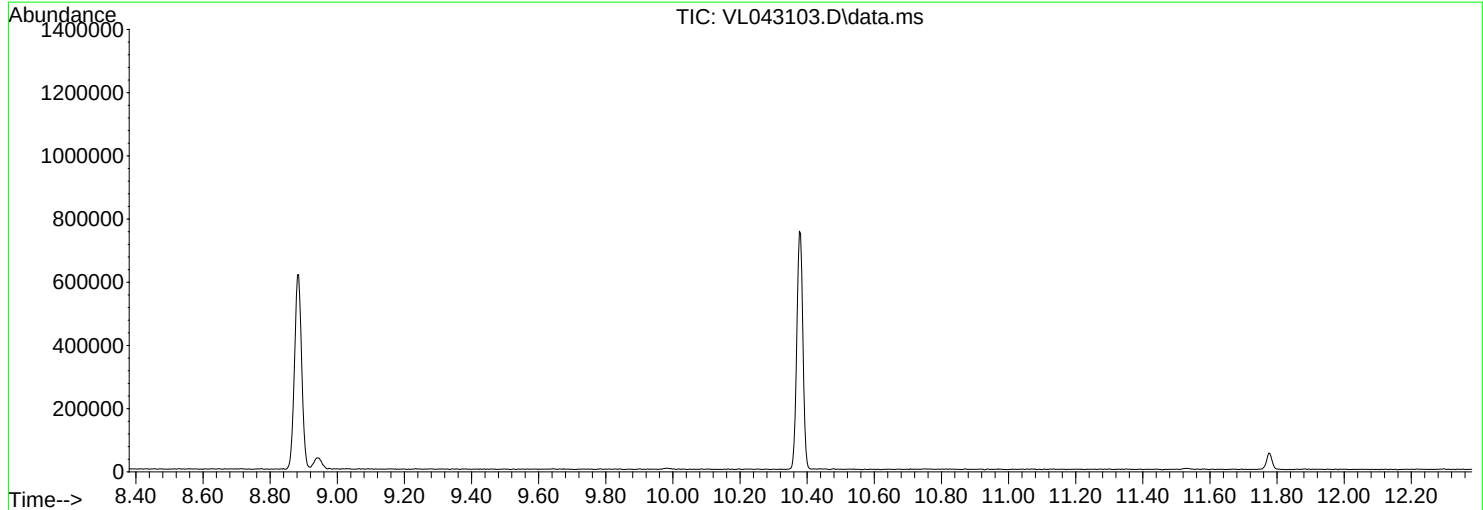
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
Data File : VL043103.D
Acq On : 14 Oct 2025 08:42
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\VL101425AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Wed Oct 15 02:12:58 2025



AutoFind: Scans 3179, 3180, 3181; Background Corrected with Scan 3159

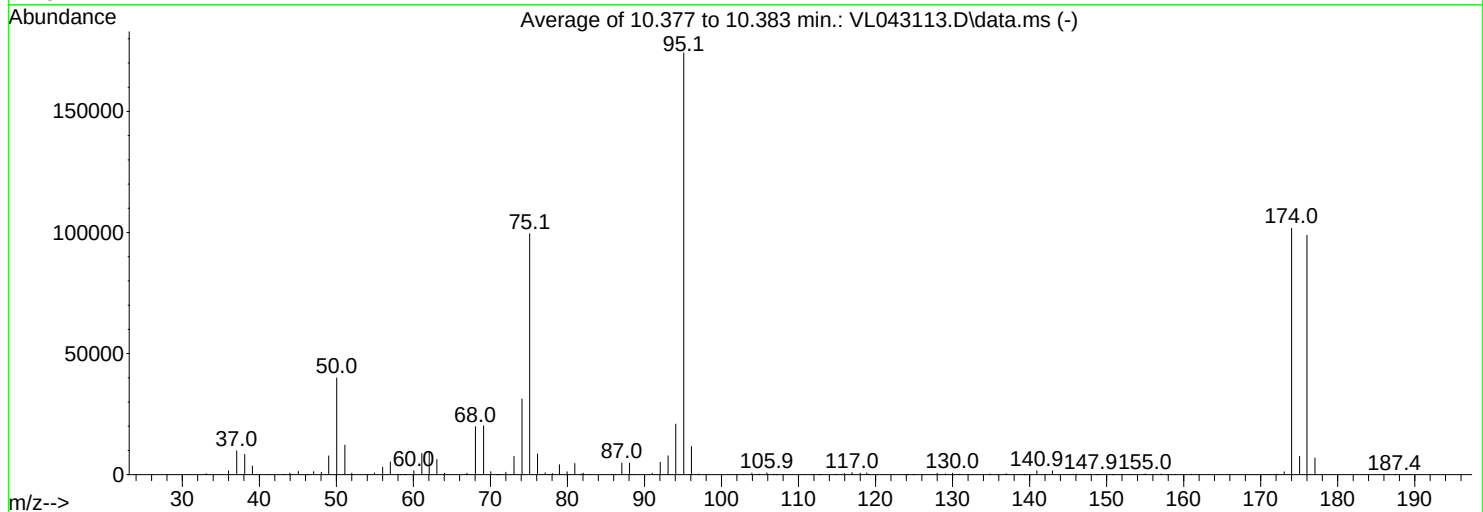
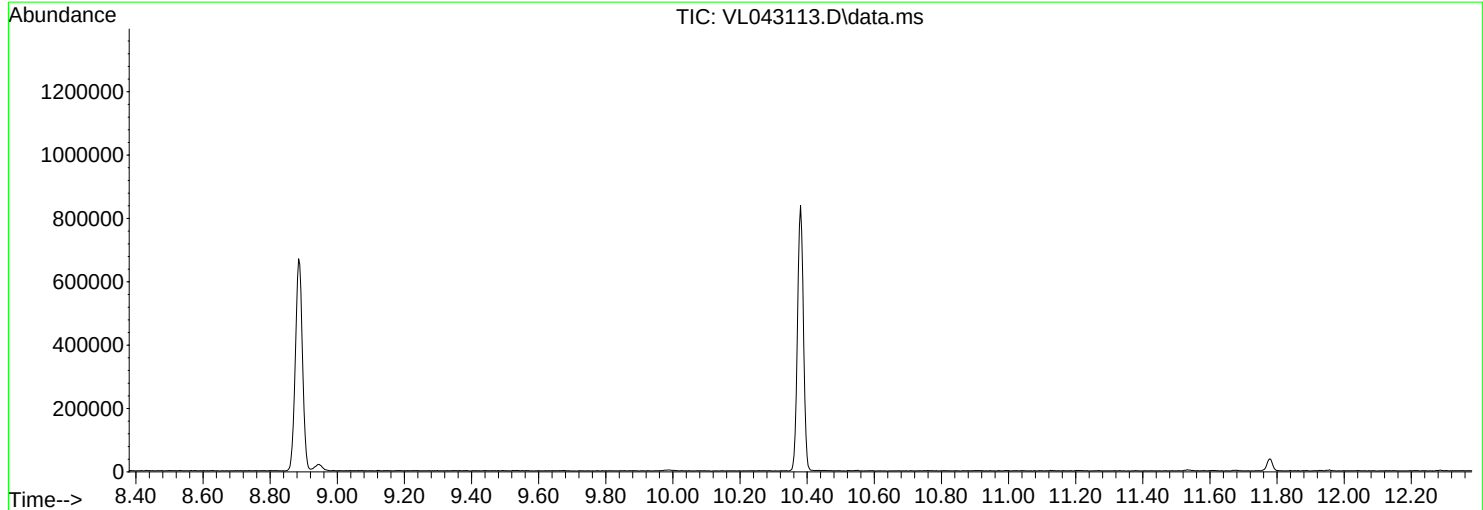
Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	8	40	21.9	35021	PASS
75	95	30	66	53.2	84899	PASS
95	95	100	100	100.0	159660	PASS
96	95	5	9	6.8	10862	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	61.7	98536	PASS
175	174	4	9	7.8	7669	PASS
176	174	93	101	96.5	95125	PASS
177	176	5	9	6.6	6237	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101525\
Data File : VL043113.D
Acq On : 15 Oct 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\VL101425AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Wed Oct 15 02:12:58 2025



AutoFind: Scans 3179, 3180, 3181; Background Corrected with Scan 3165

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	22.9	39893	PASS
75	95	30	66	57.1	99517	PASS
95	95	100	100	100.0	174208	PASS
96	95	5	9	6.7	11654	PASS
173	174	0.00	2	1.2	1187	PASS
174	95	50	120	58.4	101720	PASS
175	174	4	9	7.4	7569	PASS
176	174	93	101	97.2	98861	PASS
177	176	5	9	6.9	6857	PASS

Report of Analysis

Client: Alliance Technical Group, LLC - Newark
Project: NJ AIR PT
Client Sample ID: VL1015ABL01
Lab Sample ID: VL1015ABL01
Analytical Method: TO-15
Sample Wt/Vol: 400 mL

Date Collected:
Date Received:
SDG No.: Q3247
Matrix: Air
Test: VOCMS Group3

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
TARGETS									
75-00-3	Chloroethane	0.15	0.40	U	1	0.40	1.32	10/15/25 09:34	VL101525
142-82-5	Heptane	0.17	0.70	U	1	0.70	2.05	10/15/25 09:34	VL101525
75-27-4	Bromodichloromethane	0.060	0.40	U	1	0.40	3.35	10/15/25 09:34	VL101525
179601-23-1	m/p-Xylene	0.41	1.78	U	1	1.78	4.34	10/15/25 09:34	VL101525
SURROGATES									
460-00-4	1-Bromo-4-Fluorobenzene	10.1				65 - 135	101% SPK: 10		
INTERNAL STANDARDS									
74-97-5	Bromochloromethane	94900							
540-36-3	1,4-Difluorobenzene	309000							
3114-55-4	Chlorobenzene-d5	273000							

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101525\
 Data File : VL043115.D
 Acq On : 15 Oct 2025 09:34
 Operator : SY/MD
 Sample : VL1015ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1015ABL01

Quant Time: Oct 16 01:14:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 02:12:58 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	94939	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	308682	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	273385	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.377	95	214813	10.109	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.100%

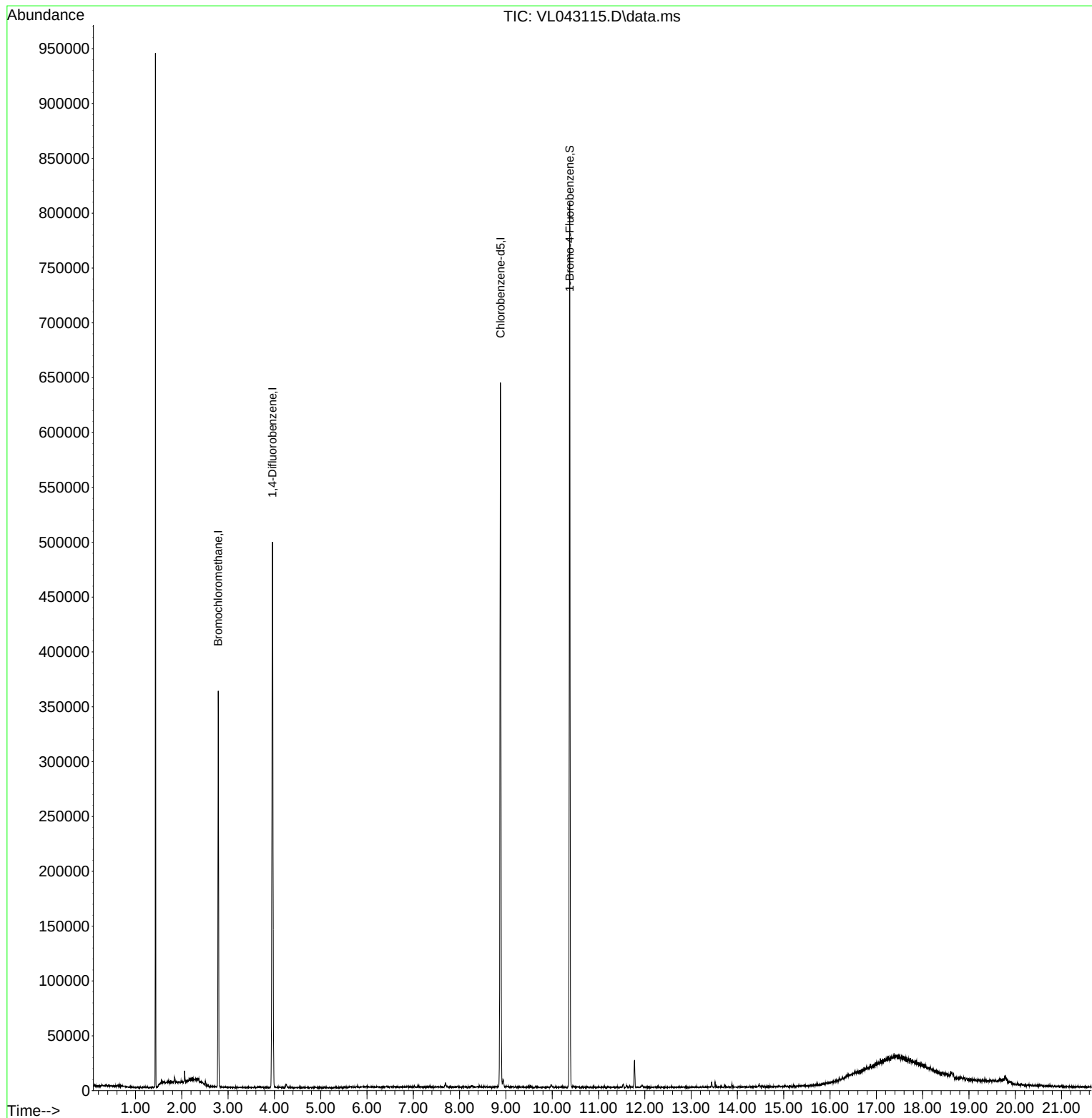
Target Compounds	Qvalue

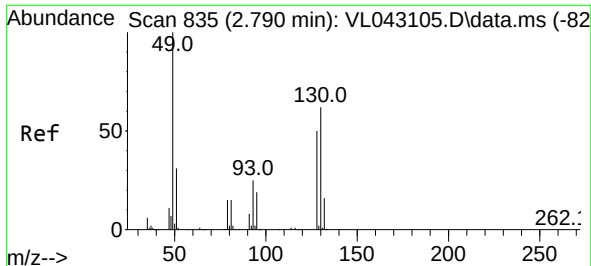
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101525\
Data File : VL043115.D
Acq On : 15 Oct 2025 09:34
Operator : SY/MD
Sample : VL1015ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL1015ABL01

Quant Time: Oct 16 01:14:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration

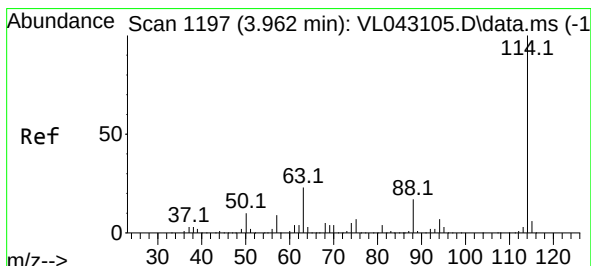
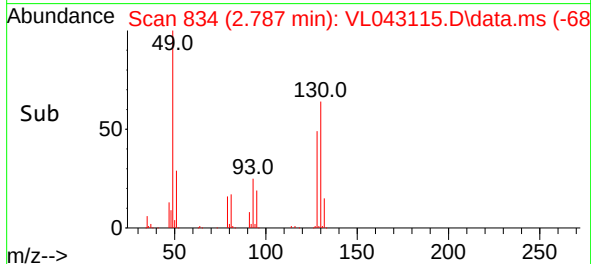
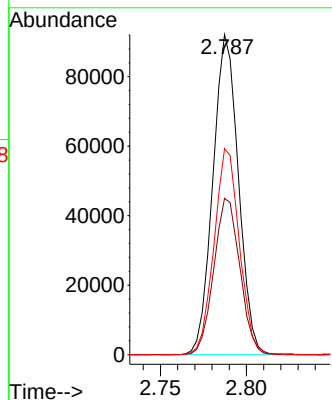
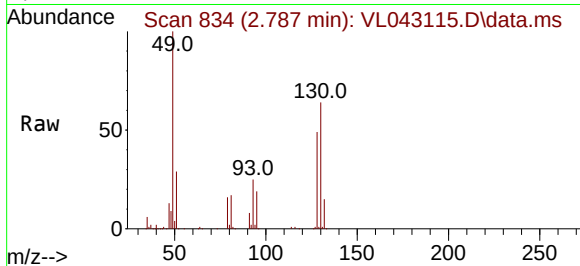




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL043115.D
Acq: 15 Oct 2025 09:34

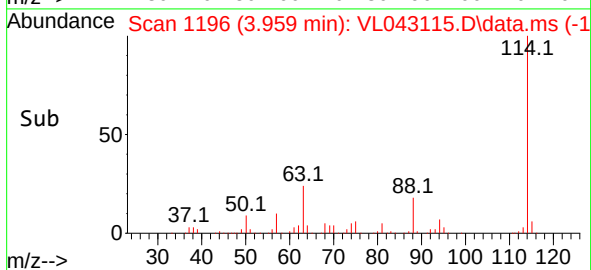
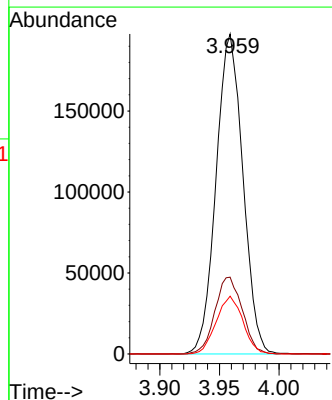
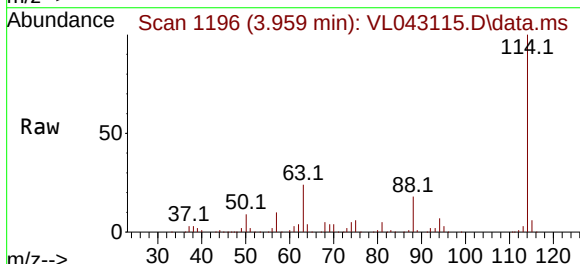
Instrument :
MSVOA_1
ClientSampleId :
VL1015ABL01

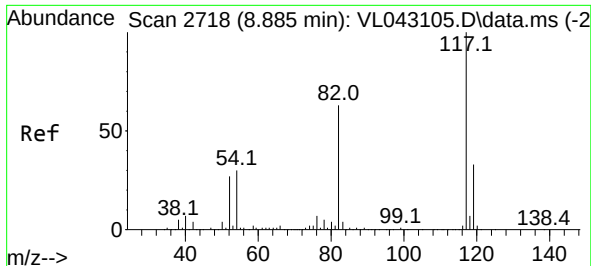
Tgt Ion: 49 Resp: 94939
Ion Ratio Lower Upper
49 100
128 49.9 24.4 73.4
130 64.1 31.0 93.0



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.003 min
Lab File: VL043115.D
Acq: 15 Oct 2025 09:34

Tgt Ion: 114 Resp: 308682
Ion Ratio Lower Upper
114 100
63 24.5 19.3 28.9
88 17.9 13.9 20.9





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.882 min Scan# 21

Delta R.T. -0.003 min

Lab File: VL043115.D

Acq: 15 Oct 2025 09:34

Instrument :

MSVOA_1

ClientSampleId :

VL1015ABL01

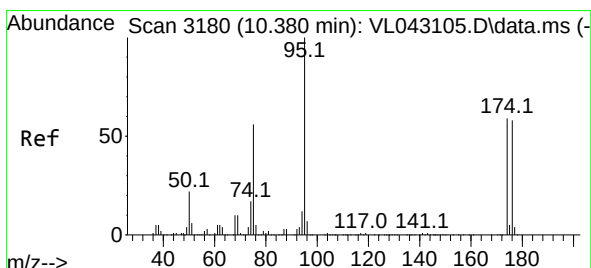
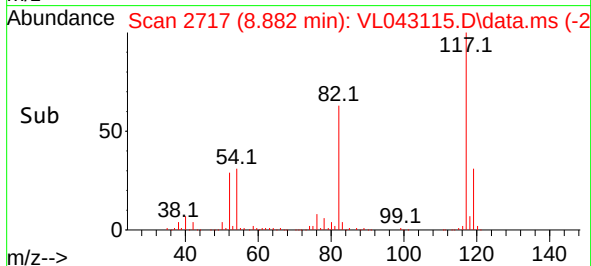
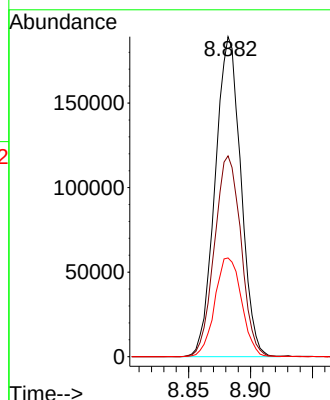
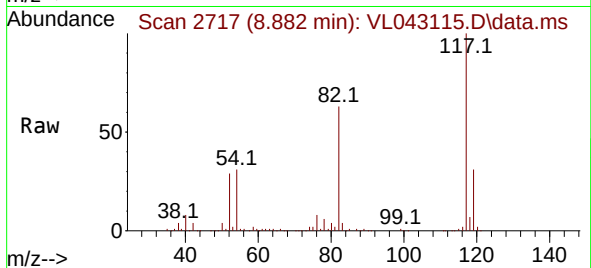
Tgt Ion:117 Resp: 273385

Ion Ratio Lower Upper

117 100

82 64.9 53.8 80.8

119 32.2 25.4 38.0



#68

1-Bromo-4-Fluorobenzene

Concen: 10.109 ppbv

RT: 10.377 min Scan# 3179

Delta R.T. -0.003 min

Lab File: VL043115.D

Acq: 15 Oct 2025 09:34

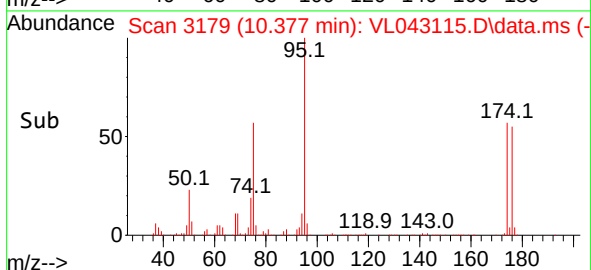
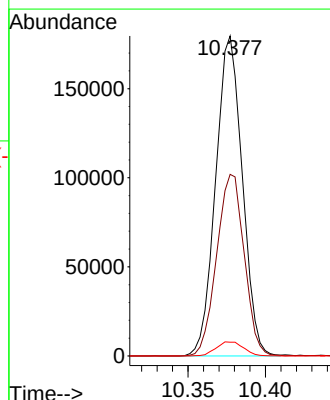
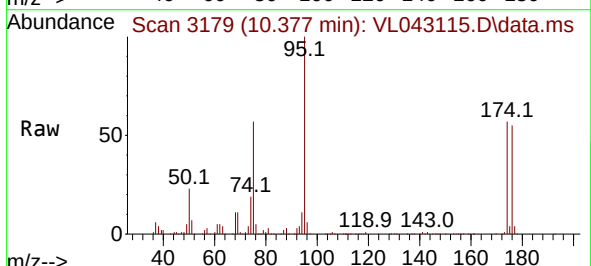
Tgt Ion: 95 Resp: 214813

Ion Ratio Lower Upper

95 100

174 58.7 48.3 72.5

175 4.6 3.8 5.8



Report of Analysis

Client: Alliance Technical Group, LLC - Newark
Project: NJ AIR PT
Client Sample ID: VL1015ABS01
Lab Sample ID: VL1015ABS01
Analytical Method: TO-15
Sample Wt/Vol: 400 mL

Date Collected:
Date Received:
SDG No.: Q3247
Matrix: Air
Test: VOCMS Group3

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
TARGETS									
75-00-3	Chloroethane	9.10	24.0		1	0.40	1.32	10/15/25 10:15	VL101525
142-82-5	Heptane	8.20	33.6		1	0.70	2.05	10/15/25 10:15	VL101525
75-27-4	Bromodichloromethane	9.90	66.3		1	0.40	3.35	10/15/25 10:15	VL101525
179601-23-1	m/p-Xylene	18.3	79.5		1	1.78	4.34	10/15/25 10:15	VL101525
SURROGATES									
460-00-4	1-Bromo-4-Fluorobenzene	10.3				65 - 135	103% SPK: 10		
INTERNAL STANDARDS									
		Area Count							
74-97-5	Bromochloromethane	93800							
540-36-3	1,4-Difluorobenzene	302000							
3114-55-4	Chlorobenzene-d5	271000							

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101525\
 Data File : VL043116.D
 Acq On : 15 Oct 2025 10:15
 Operator : SY/MD
 Sample : VL1015ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1015ABS01

Quant Time: Oct 16 01:14:54 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

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

QLast Update : Wed Oct 15 02:12:58 2025

Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 10/16/2025
 Supervised By : Mahesh Dadoda 10/17/2025

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

Internal Standards						
1) Bromochloromethane	2.790	49	93836	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	302461	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	271209	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 217166 10.302 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 103.000%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	131416	9.851	ppbv	99
3) Chlorodifluoromethane	1.476	51	131982	9.144	ppbv	99
4) Chloromethane	1.534	50	47577	9.003	ppbv	99
5) Vinyl Chloride	1.583	62	47002	9.068	ppbv	98
6) Bromomethane	1.670	94	27400	9.640	ppbv	100
7) Chloroethane	1.706	64	19366	9.138	ppbv	97
8) Dichlorotetrafluoroethane	1.557	85	105053	9.743	ppbv	97
9) Propene	1.486	41	53024	8.283	ppbv	99
10) Heptane	4.981	43	151642	8.228	ppbv	99
11) Trichlorofluoromethane	1.881	101	138197	10.591	ppbv	95
12) 1,1,2-Trichlorotrifluo...	2.143	101	105541	10.046	ppbv	99
13) Ethanol	1.722	45	17262	7.290	ppbv	95
14) Bromoethene	1.784	108	37841	9.696	ppbv	98
15) Acetone	1.835	43	109263	8.639	ppbv	98
16) 1,3-Butadiene	1.612	39	53479	8.872	ppbv	100
17) tert-Butyl alcohol	2.039	59	166341	9.581	ppbv	98
18) 1,1-Dichloroethene	2.036	96	46186	10.084	ppbv	95
19) Isopropyl Alcohol	1.887	45	69684	8.846	ppbv	99
20) Methylene Chloride	2.065	84	42203	8.442	ppbv	93
21) Allyl Chloride	2.098	41	86785	9.312	ppbv	93
22) trans-1,2-Dichloroethene	2.344	96	54715	9.994	ppbv	95
23) Vinyl Acetate	2.463	43	168496	9.095	ppbv	99
24) 1,1-Dichloroethane	2.411	63	105823	10.005	ppbv	99
25) Ethyl Acetate	2.835	43	275684	8.790	ppbv	100
26) Hexane	2.829	57	126834	8.776	ppbv	98
27) Carbon Disulfide	2.153	76	132560	10.011	ppbv	98
28) Methyl tert-Butyl Ether	2.441	73	61275	9.319	ppbv	97
29) Chloroform	2.852	83	201183	9.607	ppbv	97
30) Cyclohexane	3.861	84	111570	8.845	ppbv	95
31) cis-1,2-Dichloroethene	2.722	61	132435	9.596	ppbv	96
32) 1,1,1-Trichloroethane	3.373	97	212419	9.741	ppbv	100
34) 2-Butanone	2.557	43	180097	8.858	ppbv	98
35) Carbon Tetrachloride	3.768	117	211777	9.739	ppbv	93
36) Benzene	3.658	78	266465	9.354	ppbv	100
37) 1,2-Dichloroethane	3.221	62	160950	9.808	ppbv	98
38) Trichloroethene	4.551	130	103087	8.665	ppbv	97
39) 1,2-Dichloropropane	4.315	63	92588	8.890	ppbv	96
40) 1,4-Dioxane	4.583	88	43167	9.263	ppbv #	94
41) Tetrahydrofuran	3.056	42	95919	8.435	ppbv	96
42) Bromodichloromethane	4.493	83	224949	9.904	ppbv	100
43) Methyl Methacrylate	4.881	69	130372	9.011	ppbv	98
44) 2,2,4-Trimethylpentane	4.645	57	423028	8.802	ppbv	99
45) t-1,3-Dichloropropene	6.418	75	136672	9.413	ppbv	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101525\
 Data File : VL043116.D
 Acq On : 15 Oct 2025 10:15
 Operator : SY/MD
 Sample : VL1015ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1015ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/17/2025

Quant Time: Oct 16 01:14:54 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

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

QLast Update : Wed Oct 15 02:12:58 2025

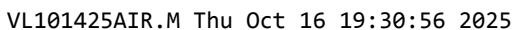
Response via : Initial Calibration

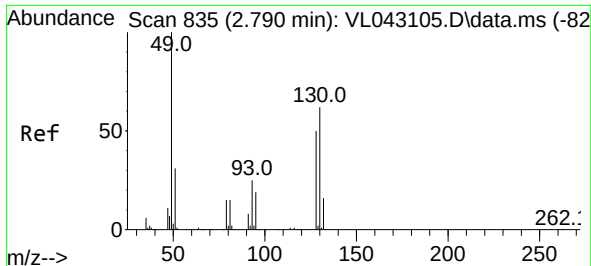
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.603	75	161245	9.296	ppbv	95
47) 1,1,2-Trichloroethane	6.583	97	102863	9.146	ppbv	96
48) Dibromochloromethane	7.389	129	180998	9.626	ppbv	99
49) Bromoform	9.487	173	146957	9.615	ppbv	99
50) 4-Methyl-2-Pentanone	5.748	43	243541	8.680	ppbv	99
51) 2-Hexanone	7.438	43	186283	8.851	ppbv	99
52) Tetrachloroethene	8.228	164	89410	8.704	ppbv	88
53) Toluene	6.936	91	306729	9.072	ppbv	100
54) 1,2-Dibromoethane	7.655	107	162517	9.226	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.927	131	161028	9.419	ppbv	99
57) Chlorobenzene	8.924	112	226970	8.946	ppbv	98
58) Ethyl Benzene	9.357	91	422762	9.083	ppbv	99
59) m/p-Xylene	9.555	91	677982m	18.262	ppbv	
60) o-Xylene	9.966	91	332591	9.071	ppbv	99
61) Styrene	9.875	104	151632	9.161	ppbv	98
62) Isopropylbenzene	10.542	105	598060	9.027	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.966	83	211101	8.598	ppbv	100
64) n-propylbenzene	10.992	120	154542	8.810	ppbv	94
65) tert-Butylbenzene	11.532	119	506098	8.650	ppbv	96
66) Benzyl Chloride	11.616	91	56595	8.691	ppbv	98
67) sec-Butylbenzene	11.772	105	733683	8.836	ppbv	98
69) p-Isopropyltoluene	11.927	119	617578	8.752	ppbv	98
70) n-Butylbenzene	12.283	91	635054	9.133	ppbv	99
71) 2-Chlorotoluene	10.904	91	464145	9.185	ppbv	98
72) 4-Ethyltoluene	11.128	105	408784	9.067	ppbv	99
73) 1,3,5-Trimethylbenzene	11.205	105	343757	9.245	ppbv	94
74) 1,2,4-Trimethylbenzene	11.539	105	364645	8.764	ppbv	99
75) 1,3-Dichlorobenzene	11.610	146	213175	8.833	ppbv	99
76) 1,4-Dichlorobenzene	11.675	146	215187	8.843	ppbv	98
77) 1,2-Dichlorobenzene	11.950	146	200329	8.581	ppbv	98
78) Hexachloro-1,3-Butadiene	13.882	225	143609	7.945	ppbv	98
79) Naphthalene	13.516	128	410097	9.429	ppbv	98
80) Naphthalene,2-methyl-	14.458	142	117693	10.387	ppbv	95
81) 1,2,4-Trichlorobenzene	13.442	180	162229	8.987	ppbv	97

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

Manual Integrations

Quant Time: Oct 16 01:14:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration





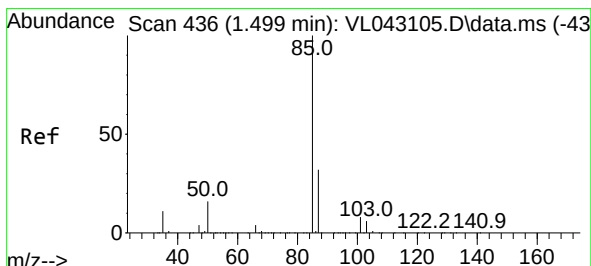
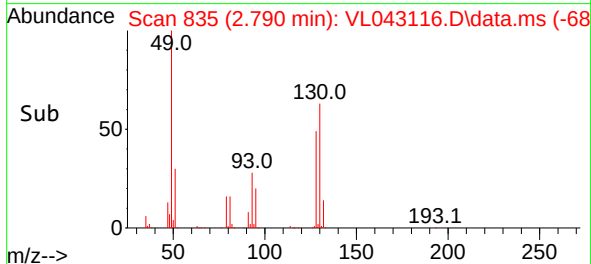
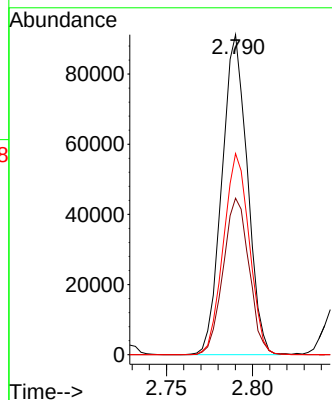
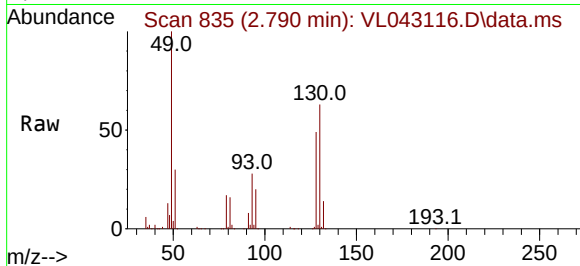
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

Instrument :
MSVOA_L
ClientSampleId :
VL1015ABS01

Tgt Ion: 49 Resp: 93830
Ion Ratio Lower Upper
49 100
128 49.7 24.4 73.4
130 63.8 31.0 93.0

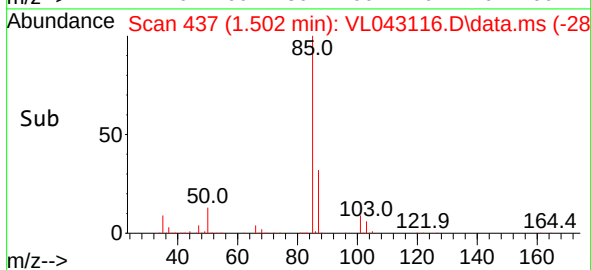
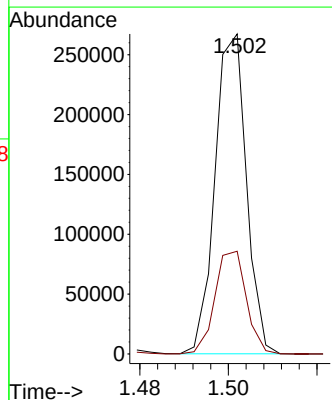
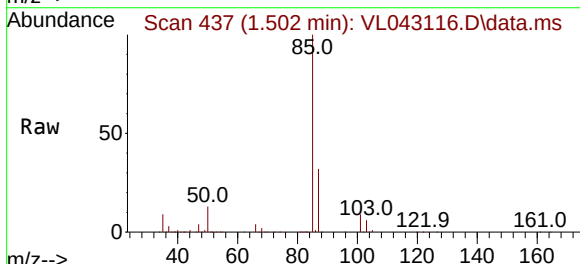
Manual Integrations
APPROVED

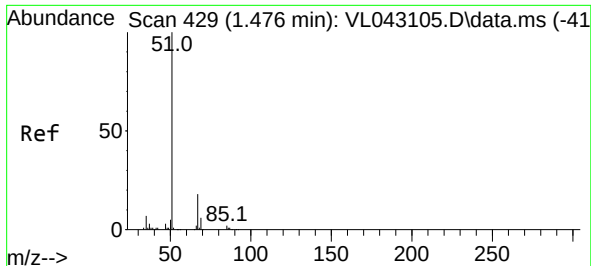
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025



#2
Dichlorodifluoromethane
Concen: 9.851 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

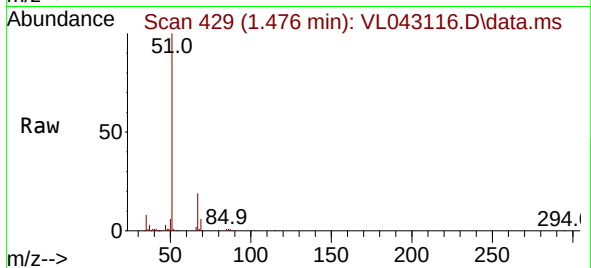
Tgt Ion: 85 Resp: 131416
Ion Ratio Lower Upper
85 100
87 32.1 25.3 37.9





#3
Chlorodifluoromethane
Concen: 9.144 ppbv
RT: 1.476 min Scan# 429
Delta R.T. -0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

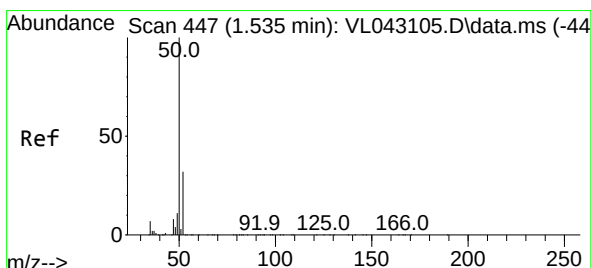
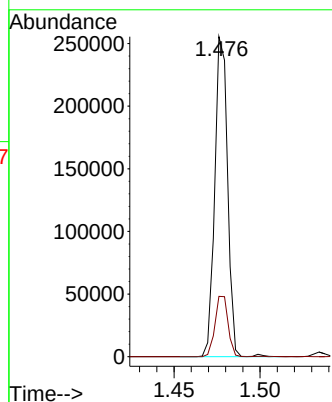
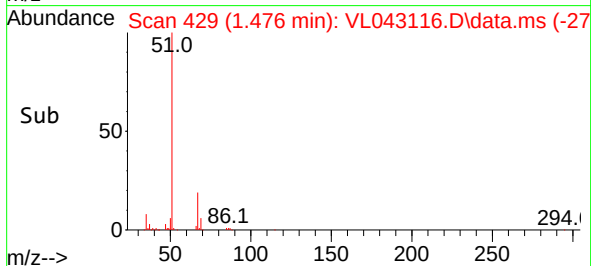
Instrument : MSVOA_L
ClientSampleId : VL1015ABS01



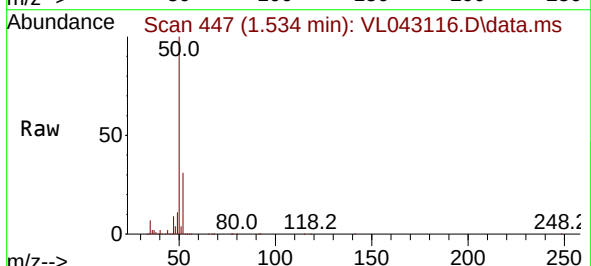
Tgt Ion: 51 Resp: 131982
Ion Ratio Lower Upper
51 100
67 19.4 15.1 22.7

Manual Integrations
APPROVED

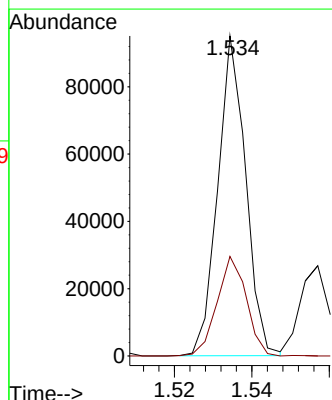
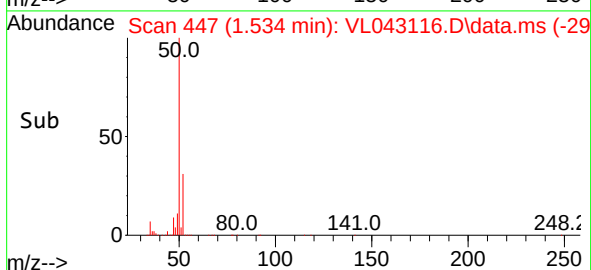
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025

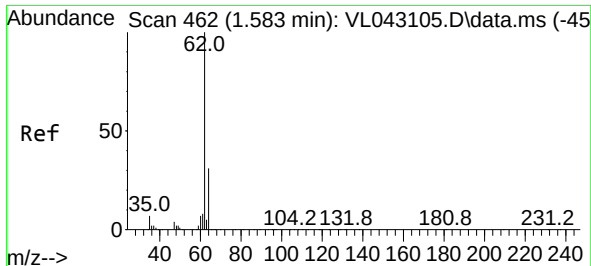


#4
Chloromethane
Concen: 9.003 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15



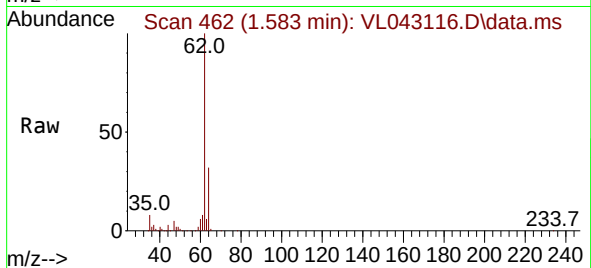
Tgt Ion: 50 Resp: 47577
Ion Ratio Lower Upper
50 100
52 31.1 25.2 37.8





#5
 Vinyl Chloride
 Concen: 9.068 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. -0.000 min
 Lab File: VL043116.D
 Acq: 15 Oct 2025 10:15

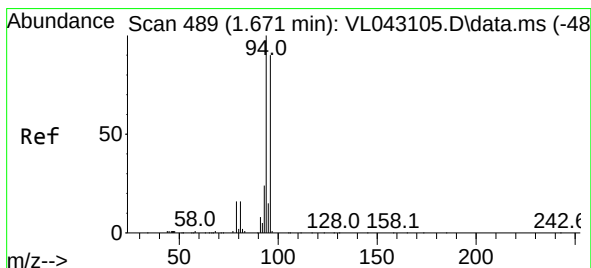
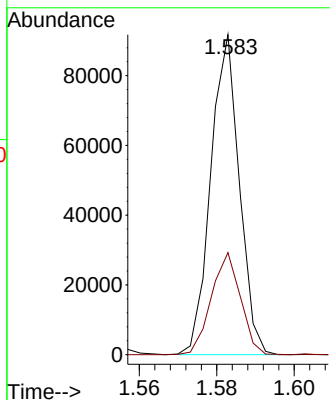
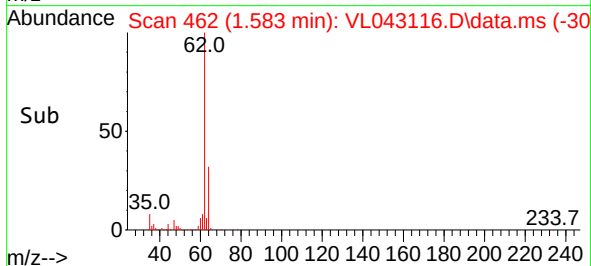
Instrument :
 MSVOA_L
 ClientSampleId :
 VL1015ABS01



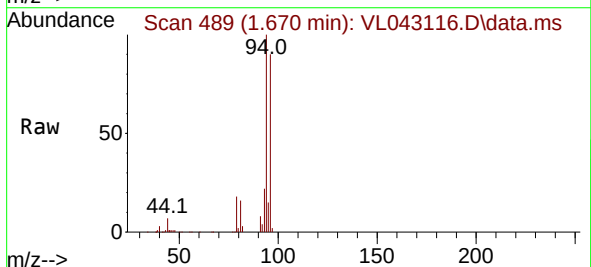
Tgt Ion: 62 Resp: 47000
 Ion Ratio Lower Upper
 62 100
 64 31.8 24.6 36.8

Manual Integrations
 APPROVED

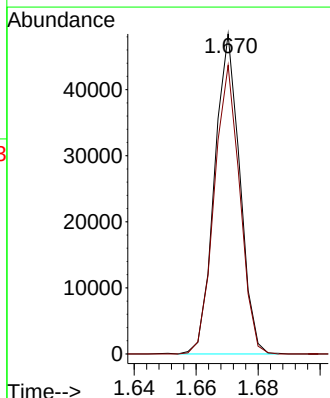
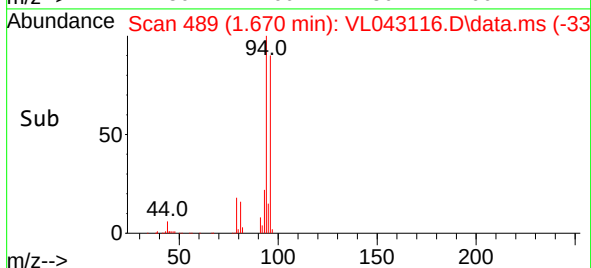
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/17/2025

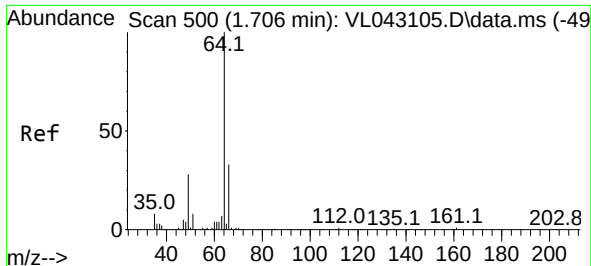


#6
 Bromomethane
 Concen: 9.640 ppbv
 RT: 1.670 min Scan# 489
 Delta R.T. -0.000 min
 Lab File: VL043116.D
 Acq: 15 Oct 2025 10:15



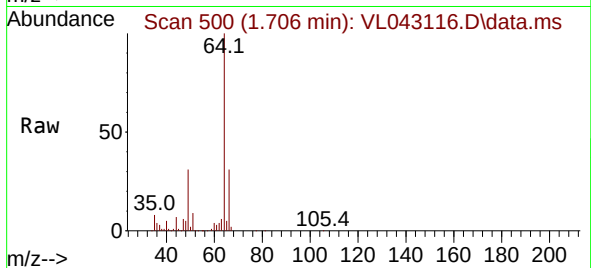
Tgt Ion: 94 Resp: 27400
 Ion Ratio Lower Upper
 94 100
 96 90.2 72.2 108.4





#7
Chloroethane
Concen: 9.138 ppbv
RT: 1.706 min Scan# 50
Delta R.T. -0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

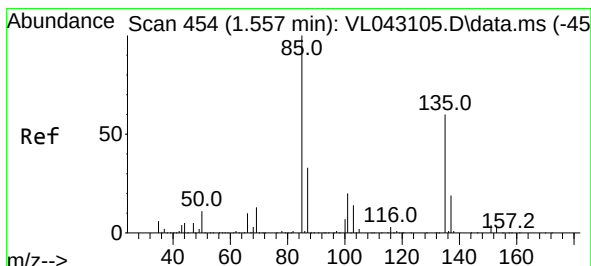
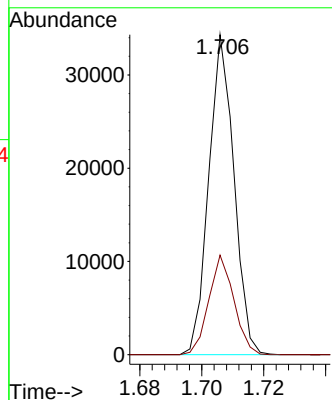
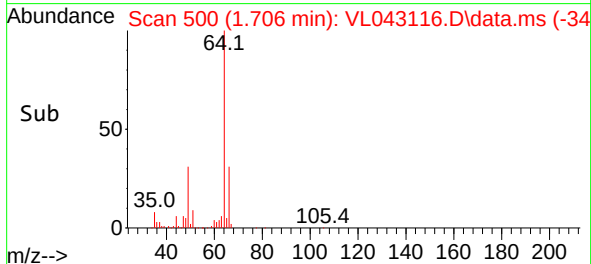
Instrument :
MSVOA_L
ClientSampleId :
VL1015ABS01



Tgt Ion: 64 Resp: 1936
Ion Ratio Lower Upper
64 100
66 31.1 26.0 39.0

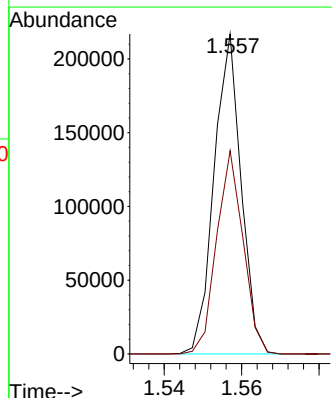
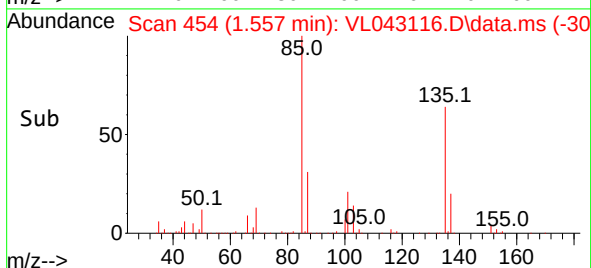
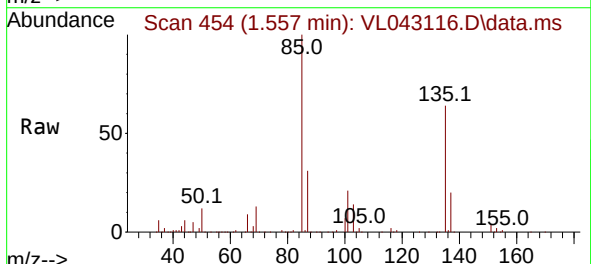
Manual Integrations
APPROVED

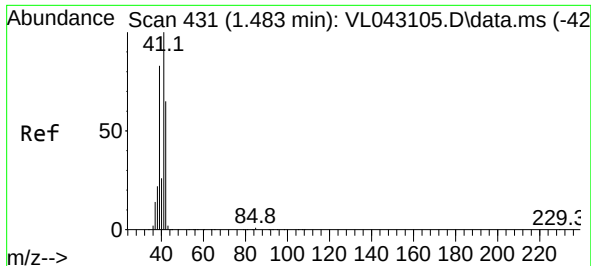
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025



#8
Dichlorotetrafluoroethane
Concen: 9.743 ppbv
RT: 1.557 min Scan# 454
Delta R.T. -0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

Tgt Ion: 85 Resp: 105053
Ion Ratio Lower Upper
85 100
135 62.5 48.2 72.4





#9

Propene

Concen: 8.283 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL043116.D

Acq: 15 Oct 2025 10:15

Instrument :

MSVOA_L

ClientSampleId :

VL1015ABS01

Tgt Ion: 41 Resp: 53024

Ion Ratio Lower Upper

41 100

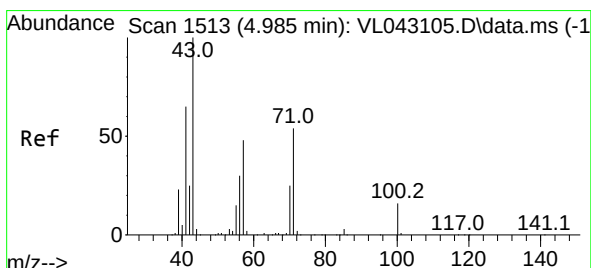
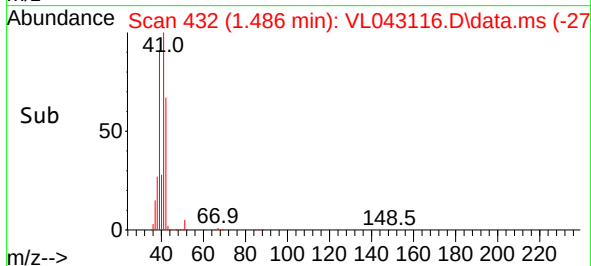
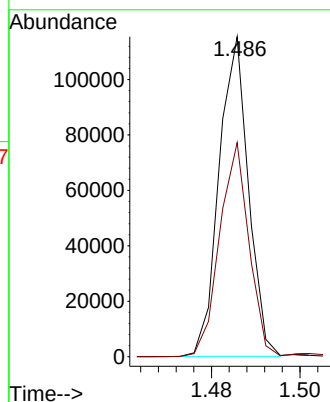
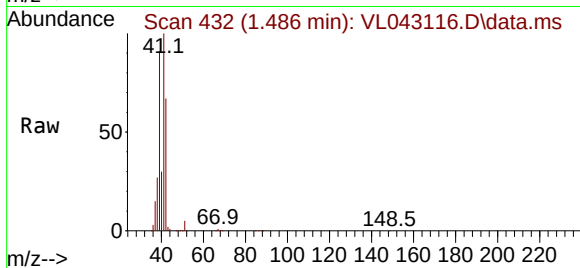
42 68.0 55.1 82.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/17/2025



#10

Heptane

Concen: 8.228 ppbv

RT: 4.981 min Scan# 1512

Delta R.T. -0.003 min

Lab File: VL043116.D

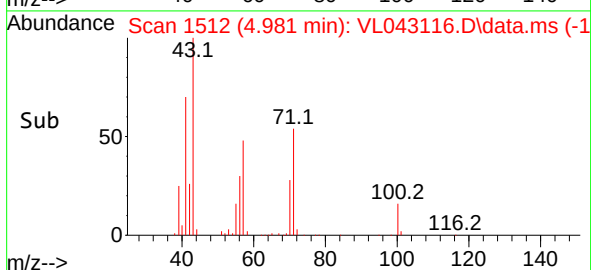
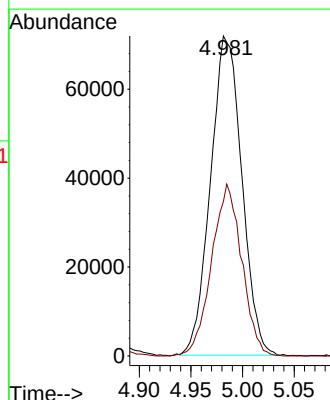
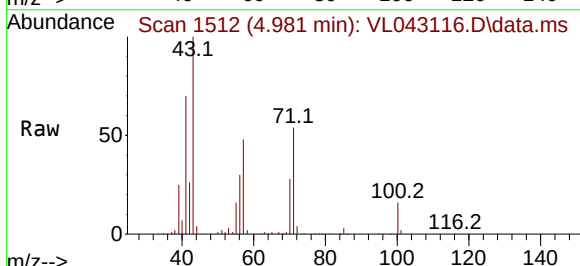
Acq: 15 Oct 2025 10:15

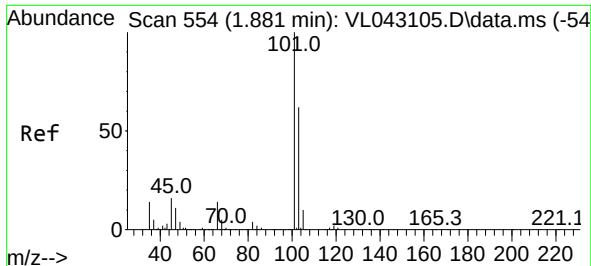
Tgt Ion: 43 Resp: 151642

Ion Ratio Lower Upper

43 100

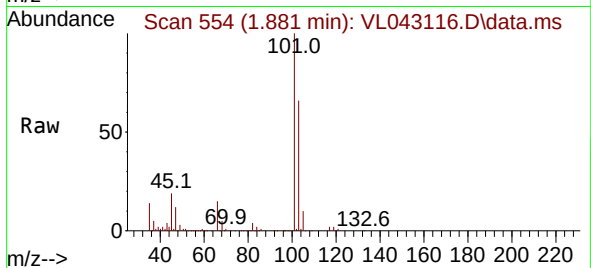
57 51.8 40.8 61.2





#11
Trichlorofluoromethane
Concen: 10.591 ppbv
RT: 1.881 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

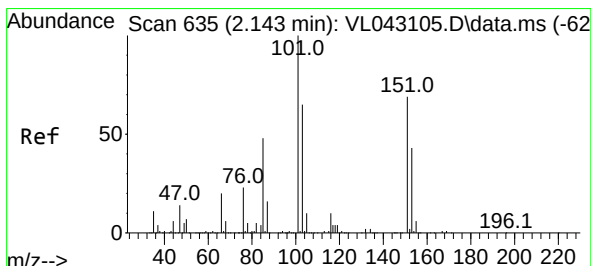
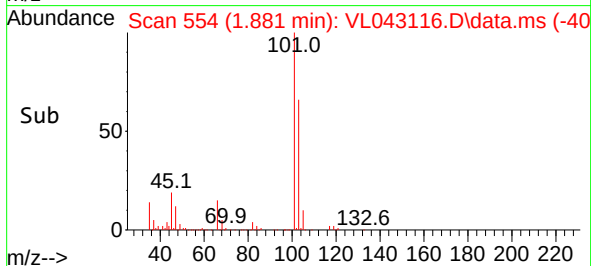
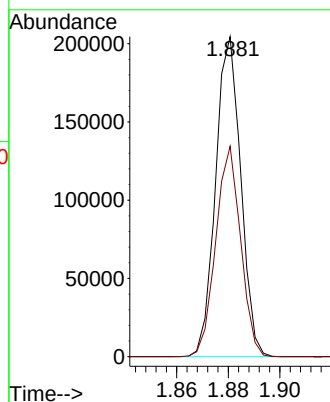
Instrument :
MSVOA_L
ClientSampleId :
VL1015ABS01



Tgt Ion:101 Resp: 13819
Ion Ratio Lower Upper
101 100
103 65.7 49.3 73.9

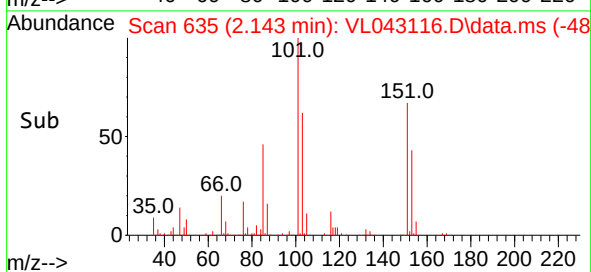
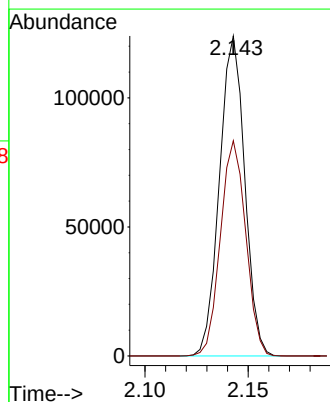
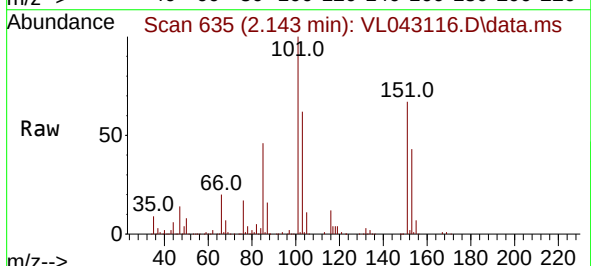
Manual Integrations
APPROVED

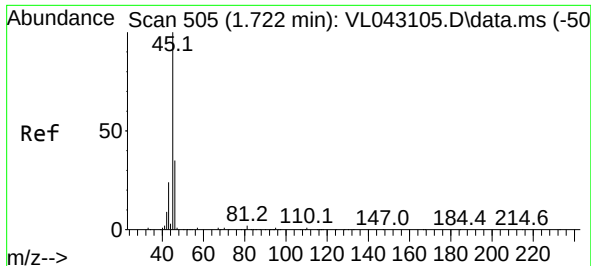
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025



#12
1,1,2-Trichlorotrifluoroethane
Concen: 10.046 ppbv
RT: 2.143 min Scan# 635
Delta R.T. -0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

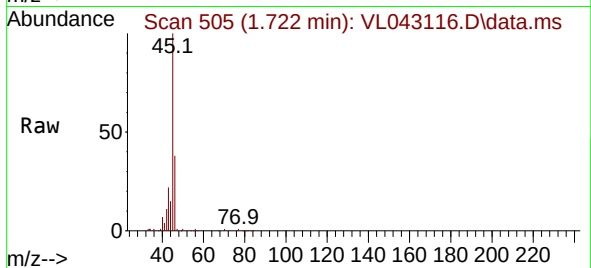
Tgt Ion:101 Resp: 105541
Ion Ratio Lower Upper
101 100
151 67.4 54.7 82.1





#13
Ethanol
Concen: 7.290 ppbv
RT: 1.722 min Scan# 505
Delta R.T. -0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

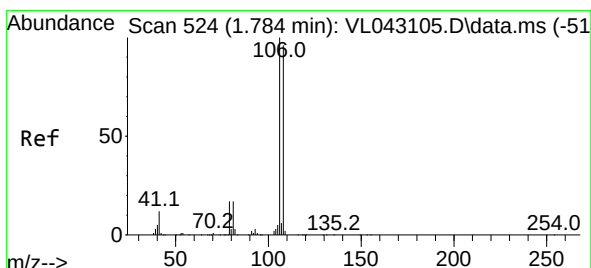
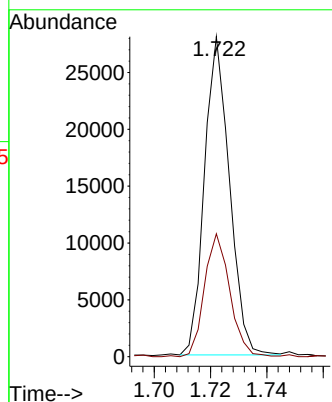
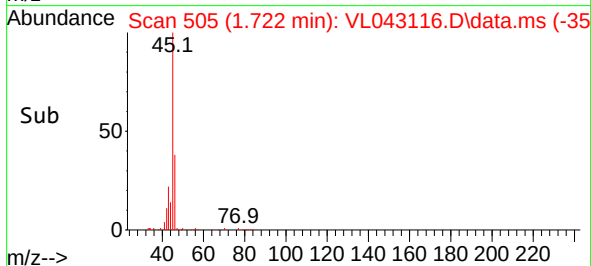
Instrument :
MSVOA_L
ClientSampleId :
VL1015ABS01



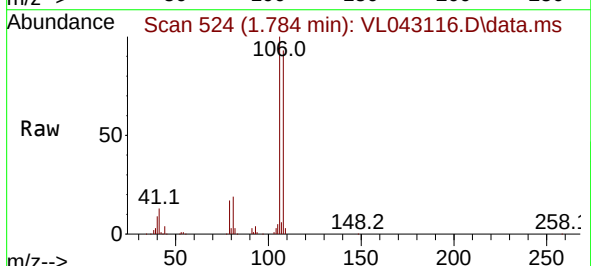
Tgt Ion: 45 Resp: 17262
Ion Ratio Lower Upper
45 100
46 39.5 14.7 58.9

Manual Integrations
APPROVED

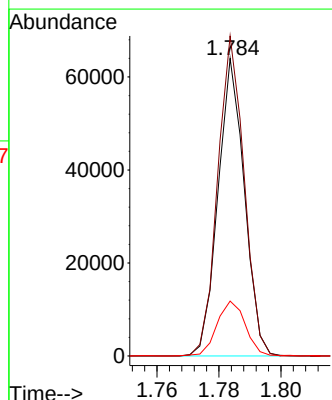
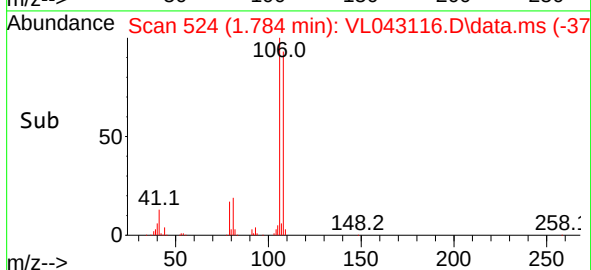
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025

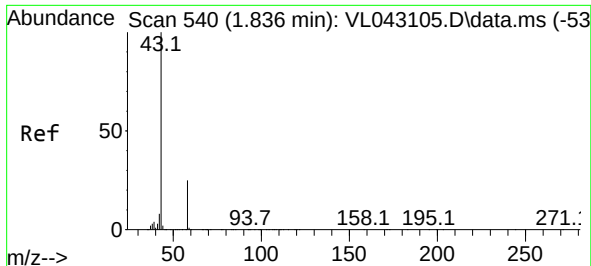


#14
Bromoethene
Concen: 9.696 ppbv
RT: 1.784 min Scan# 524
Delta R.T. -0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15



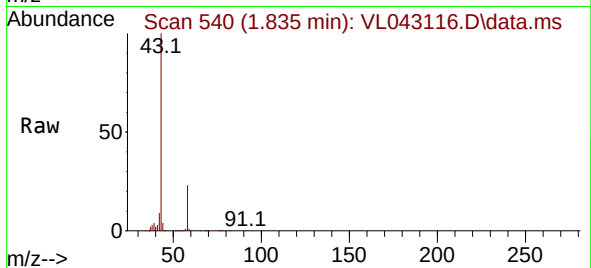
Tgt Ion:108 Resp: 37841
Ion Ratio Lower Upper
108 100
106 107.5 84.4 126.6
79 20.3 15.3 22.9





#15
Acetone
Concen: 8.639 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

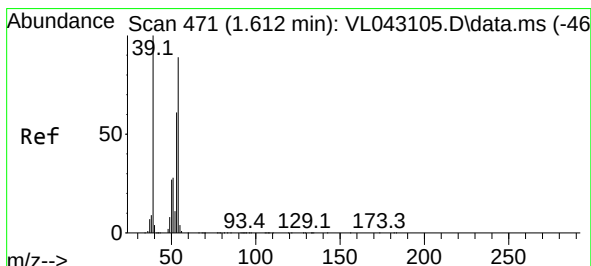
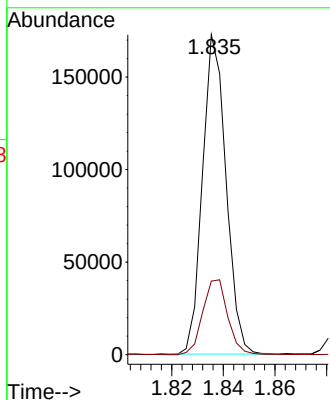
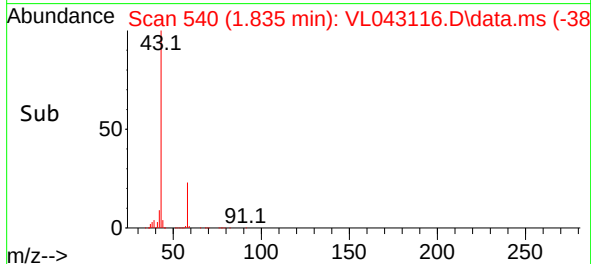
Instrument :
MSVOA_L
ClientSampleId :
VL1015ABS01



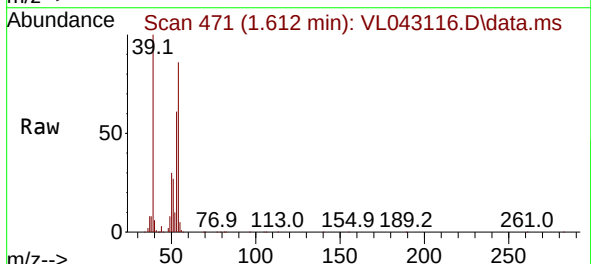
Tgt Ion: 43 Resp: 109263
Ion Ratio Lower Upper
43 100
58 25.2 20.8 31.2

Manual Integrations
APPROVED

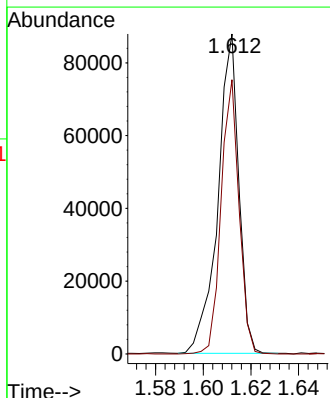
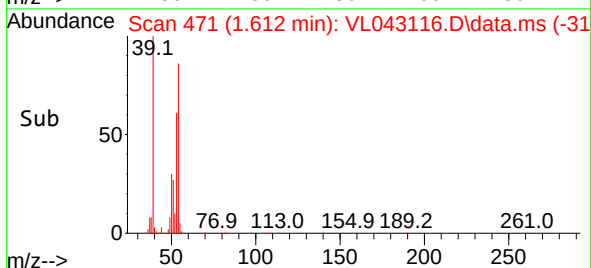
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025

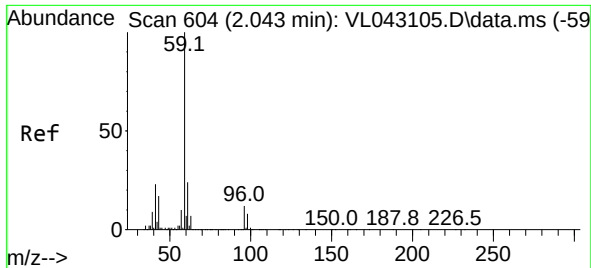


#16
1,3-Butadiene
Concen: 8.872 ppbv
RT: 1.612 min Scan# 471
Delta R.T. -0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15



Tgt Ion: 39 Resp: 53479
Ion Ratio Lower Upper
39 100
54 73.4 59.0 88.4





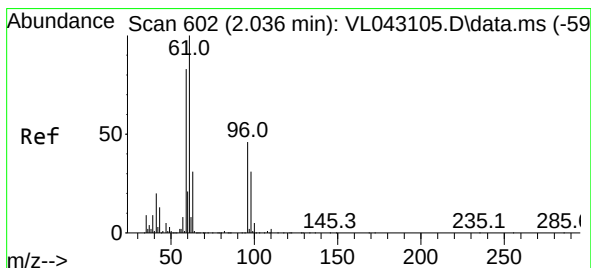
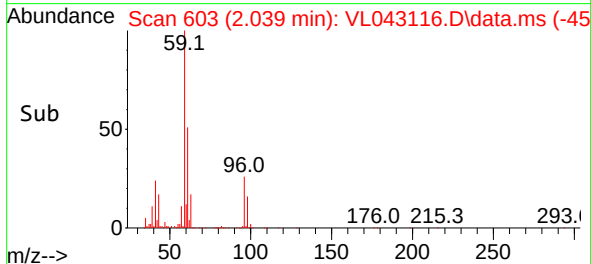
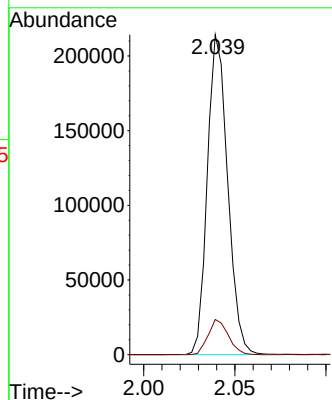
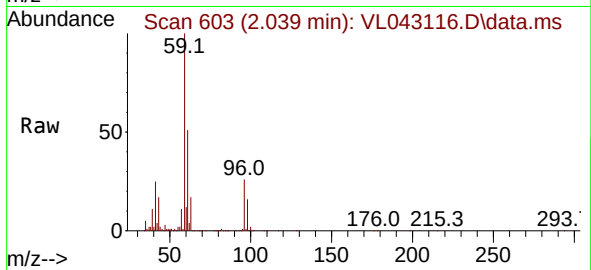
#17
tert-Butyl alcohol
Concen: 9.581 ppbv
RT: 2.039 min Scan# 604
Delta R.T. -0.003 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

Instrument :
MSVOA_L
ClientSampleId :
VL1015ABS01

Tgt Ion: 59 Resp: 16634
Ion Ratio Lower Upper
59 100
57 11.0 8.2 12.4

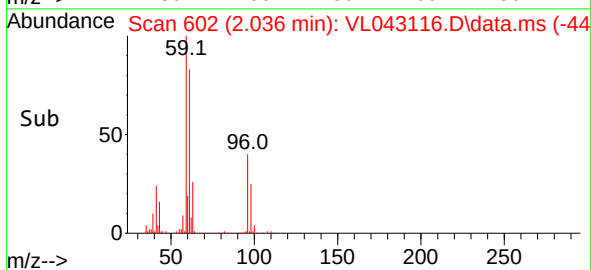
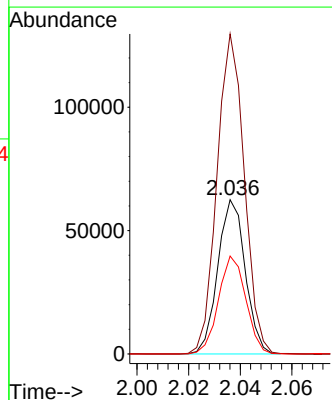
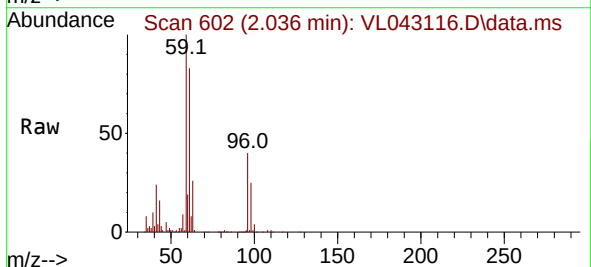
Manual Integrations
APPROVED

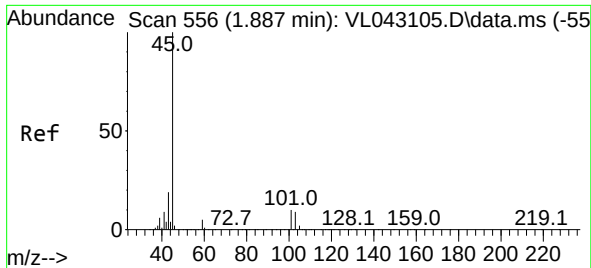
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025



#18
1,1-Dichloroethene
Concen: 10.084 ppbv
RT: 2.036 min Scan# 602
Delta R.T. -0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

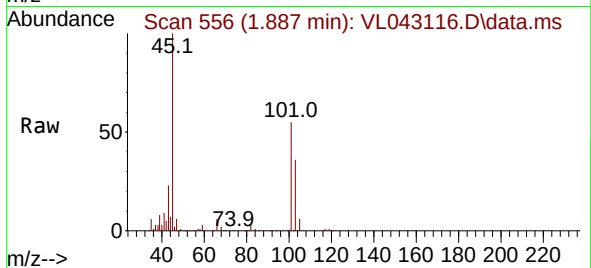
Tgt Ion: 96 Resp: 46186
Ion Ratio Lower Upper
96 100
61 207.4 173.4 260.0
98 63.5 53.2 79.8





#19
Isopropyl Alcohol
Concen: 8.846 ppbv
RT: 1.887 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

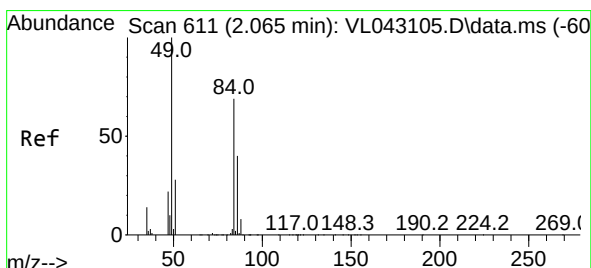
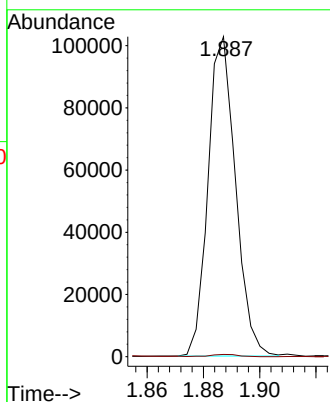
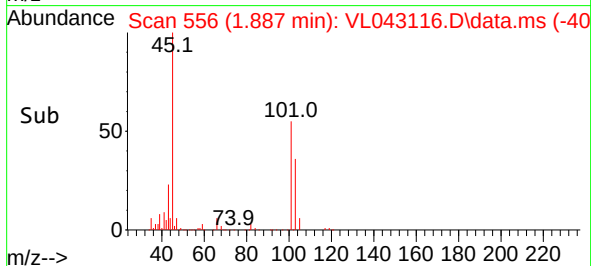
Instrument :
MSVOA_L
ClientSampleId :
VL1015ABS01



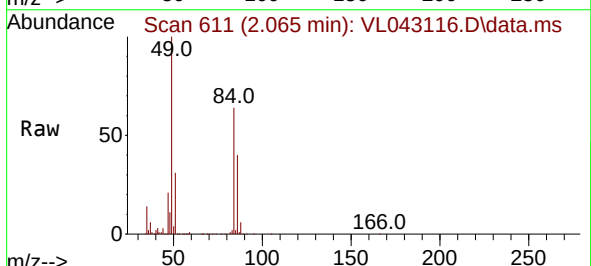
Tgt Ion: 45 Resp: 69684
Ion Ratio Lower Upper
45 100
58 39.4 31.3 46.9

Manual Integrations
APPROVED

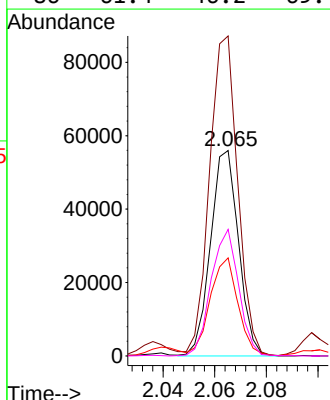
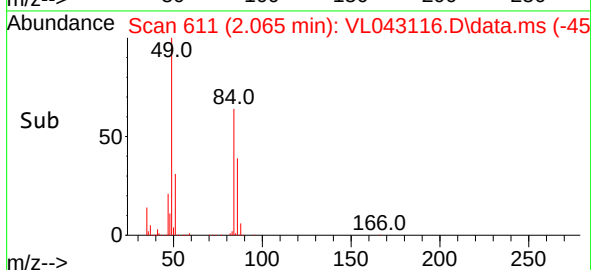
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025

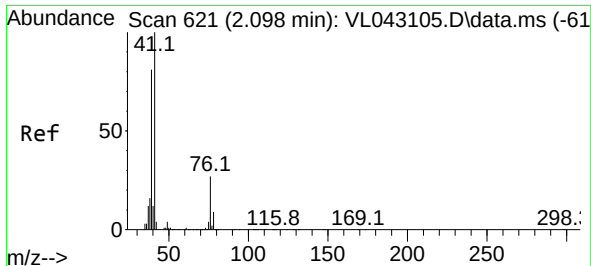


#20
Methylene Chloride
Concen: 8.442 ppbv
RT: 2.065 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15



Tgt Ion: 84 Resp: 42203
Ion Ratio Lower Upper
84 100
49 155.5 116.6 175.0
51 47.6 34.8 52.2
86 61.4 46.2 69.4





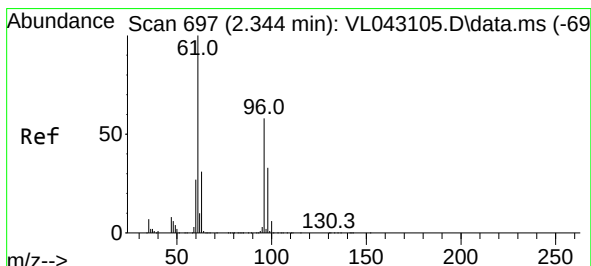
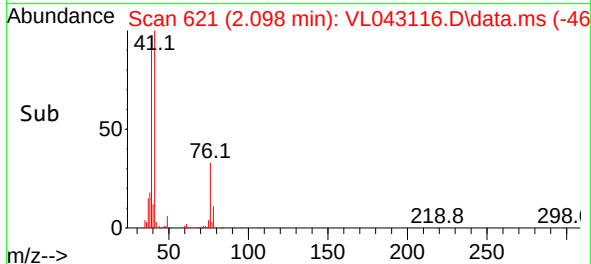
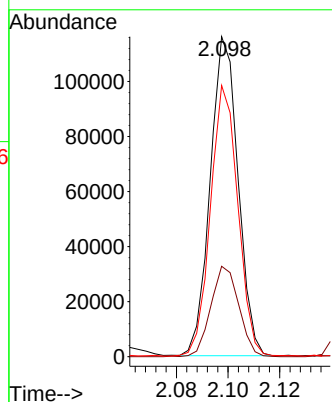
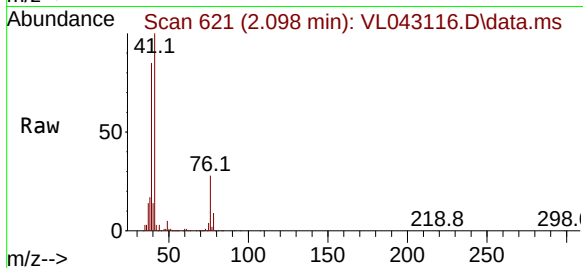
#21
 Allyl Chloride
 Concen: 9.312 ppbv
 RT: 2.098 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: VL043116.D
 Acq: 15 Oct 2025 10:15

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1015ABS01

Tgt Ion: 41 Resp: 8678
 Ion Ratio Lower Upper
 41 100
 76 28.5 21.5 32.3
 39 83.7 60.8 91.2

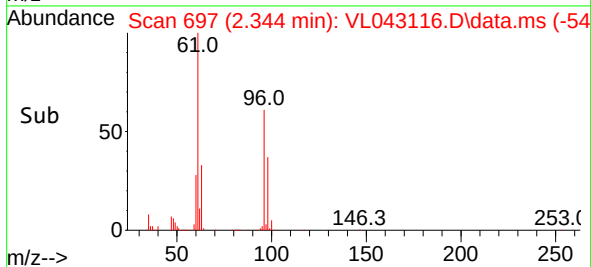
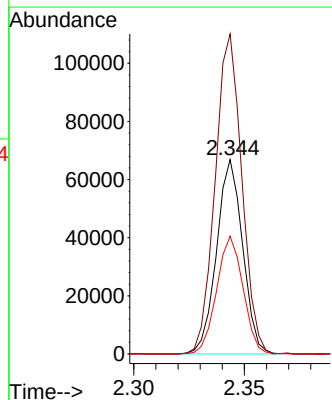
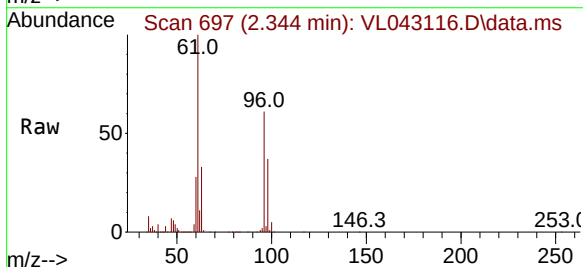
Manual Integrations
 APPROVED

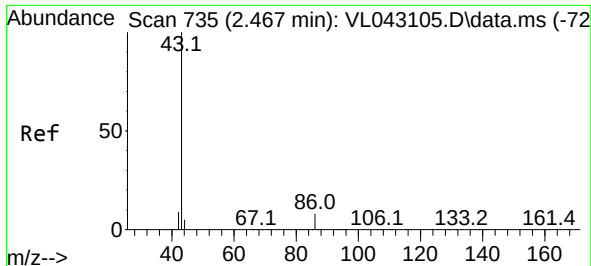
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/17/2025



#22
 trans-1,2-Dichloroethene
 Concen: 9.994 ppbv
 RT: 2.344 min Scan# 697
 Delta R.T. -0.000 min
 Lab File: VL043116.D
 Acq: 15 Oct 2025 10:15

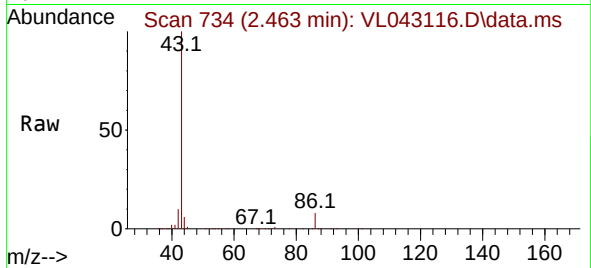
Tgt Ion: 96 Resp: 54715
 Ion Ratio Lower Upper
 96 100
 61 164.5 137.0 205.6
 98 60.5 45.5 68.3





#23
 Vinyl Acetate
 Concen: 9.095 ppbv
 RT: 2.463 min Scan# 718
 Delta R.T. -0.004 min
 Lab File: VL043116.D
 Acq: 15 Oct 2025 10:15

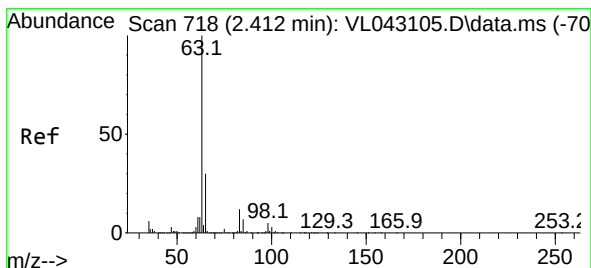
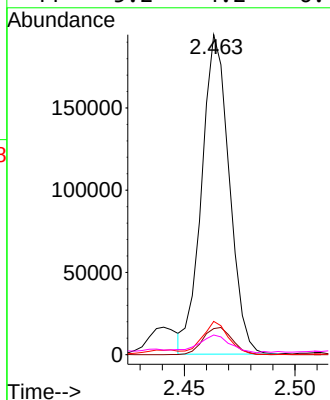
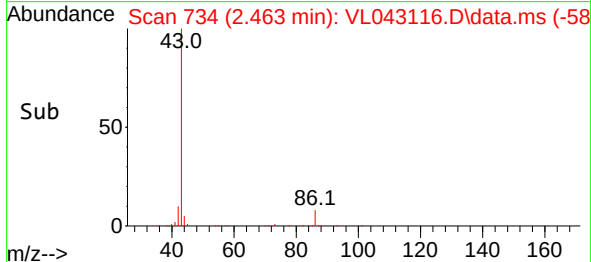
Instrument :
 MSVOA_L
 ClientSampleId :
 VL1015ABS01



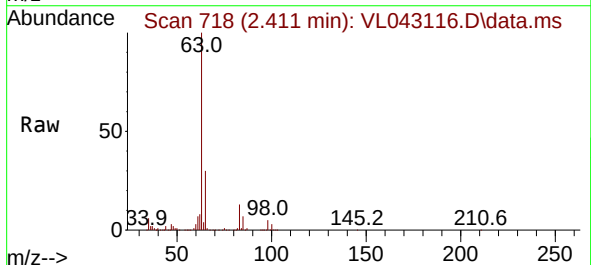
Tgt Ion: 43 Resp: 168490
 Ion Ratio Lower Upper
 43 100
 86 8.1 6.2 9.2
 42 10.3 7.6 11.4
 44 5.2 4.2 6.4

Manual Integrations
 APPROVED

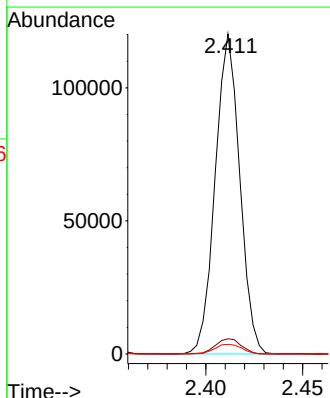
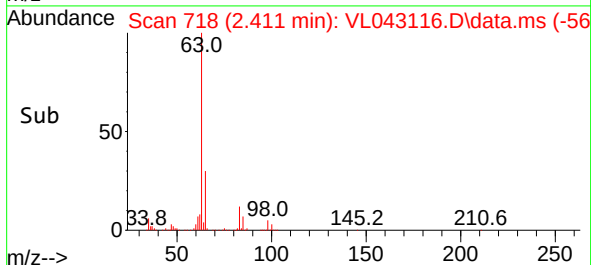
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/17/2025

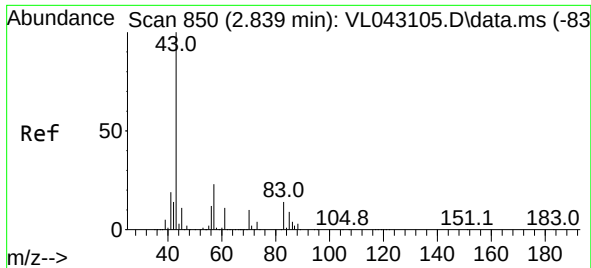


#24
 1,1-Dichloroethane
 Concen: 10.005 ppbv
 RT: 2.411 min Scan# 718
 Delta R.T. -0.000 min
 Lab File: VL043116.D
 Acq: 15 Oct 2025 10:15



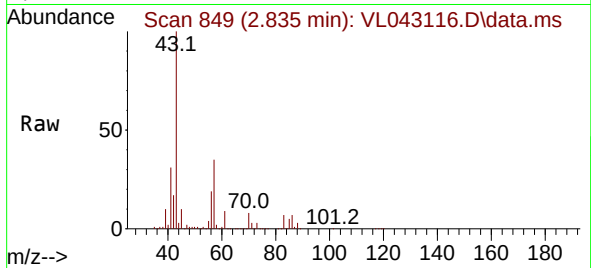
Tgt Ion: 63 Resp: 105823
 Ion Ratio Lower Upper
 63 100
 98 4.8 2.6 7.8
 100 3.0 1.5 4.4





#25
Ethyl Acetate
Concen: 8.790 ppbv
RT: 2.835 min Scan# 849
Delta R.T. -0.003 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

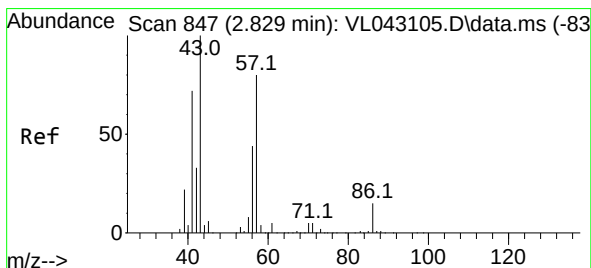
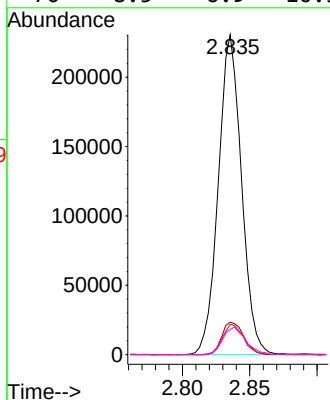
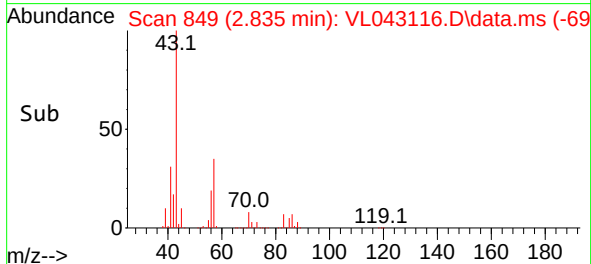
Instrument :
MSVOA_L
ClientSampleId :
VL1015ABS01



Tgt Ion: 43 Resp: 275684
Ion Ratio Lower Upper
43 100
45 9.7 7.8 11.8
61 8.7 7.0 10.6
70 8.5 6.9 10.3

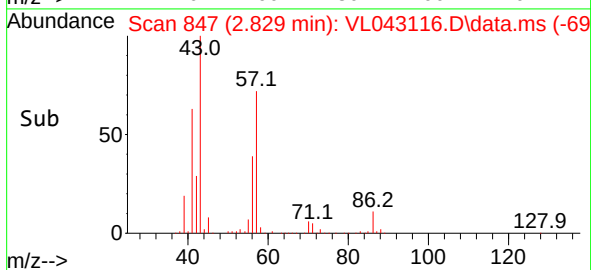
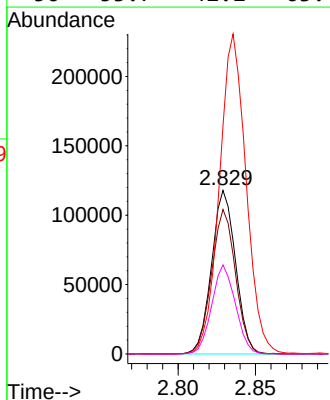
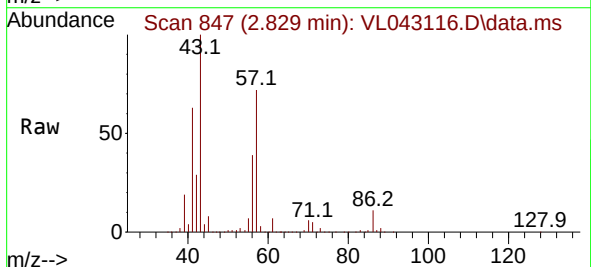
Manual Integrations
APPROVED

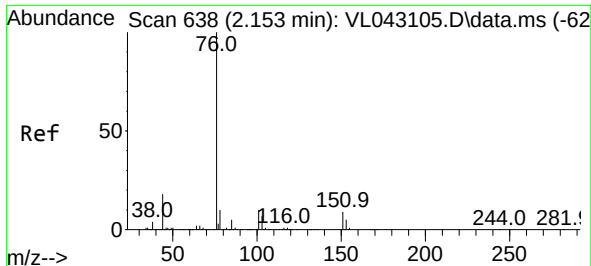
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025



#26
Hexane
Concen: 8.776 ppbv
RT: 2.829 min Scan# 847
Delta R.T. -0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

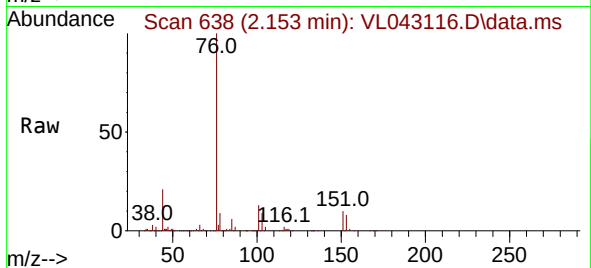
Tgt Ion: 57 Resp: 126834
Ion Ratio Lower Upper
57 100
41 89.2 71.4 107.0
43 218.1 178.5 267.7
56 53.7 42.2 63.4





#27
Carbon Disulfide
Concen: 10.011 ppbv
RT: 2.153 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

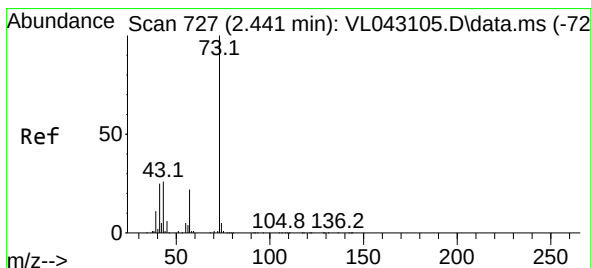
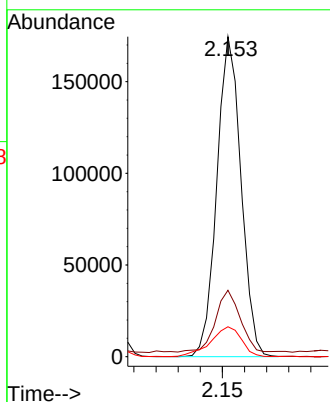
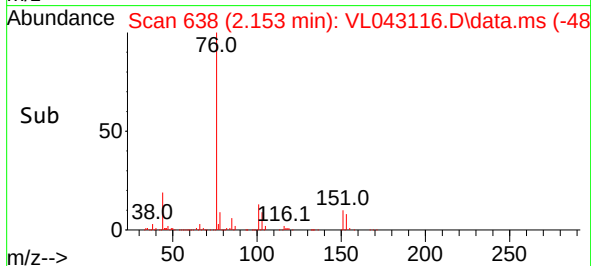
Instrument : MSVOA_L
ClientSampleId : VL1015ABS01



Tgt Ion: 76 Resp: 132560
Ion Ratio Lower Upper
76 100
44 19.8 16.7 25.1
78 12.0 9.3 13.9

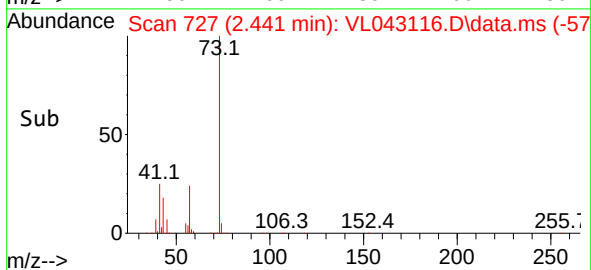
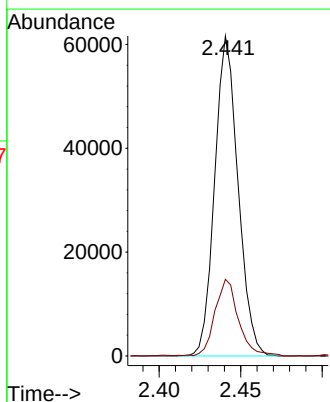
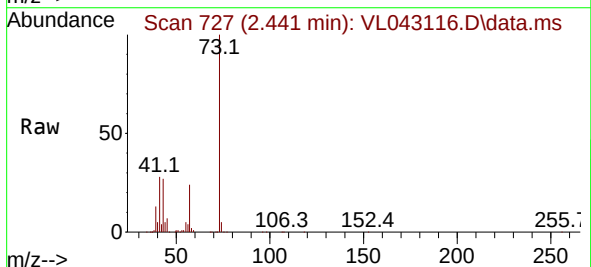
Manual Integrations
APPROVED

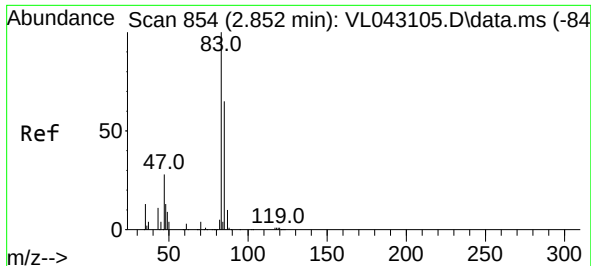
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025



#28
Methyl tert-Butyl Ether
Concen: 9.319 ppbv
RT: 2.441 min Scan# 727
Delta R.T. -0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

Tgt Ion: 73 Resp: 61275
Ion Ratio Lower Upper
73 100
57 24.3 20.5 30.7





#29

Chloroform

Concen: 9.607 ppbv

RT: 2.852 min Scan# 854

Delta R.T. -0.000 min

Lab File: VL043116.D

Acq: 15 Oct 2025 10:15

Instrument :

MSVOA_L

ClientSampleId :

VL1015ABS01

Tgt Ion: 83 Resp: 20118

Ion Ratio Lower Upper

83 100

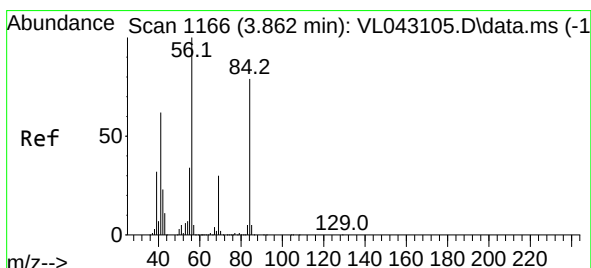
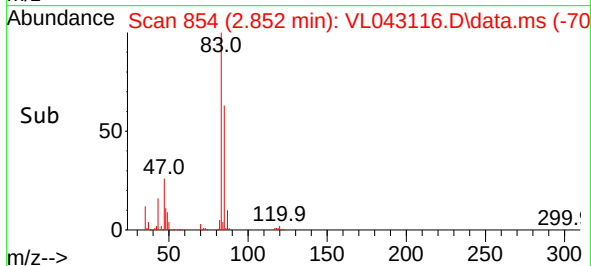
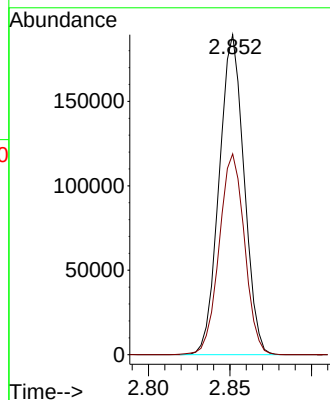
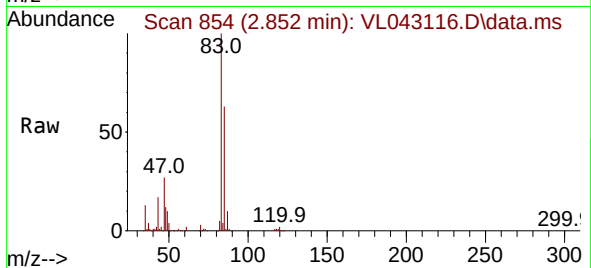
85 62.7 51.8 77.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/17/2025



#30

Cyclohexane

Concen: 8.845 ppbv

RT: 3.861 min Scan# 1166

Delta R.T. -0.000 min

Lab File: VL043116.D

Acq: 15 Oct 2025 10:15

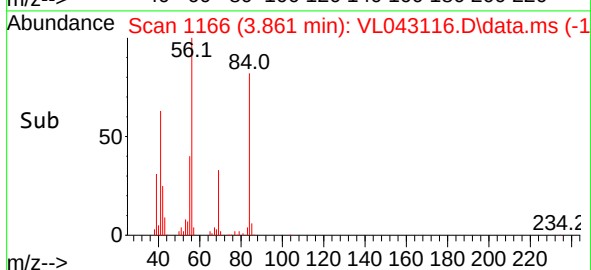
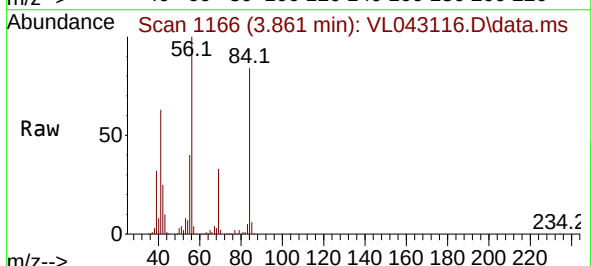
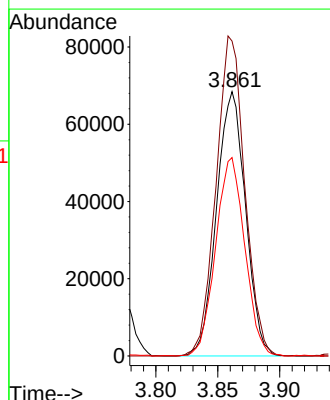
Tgt Ion: 84 Resp: 111570

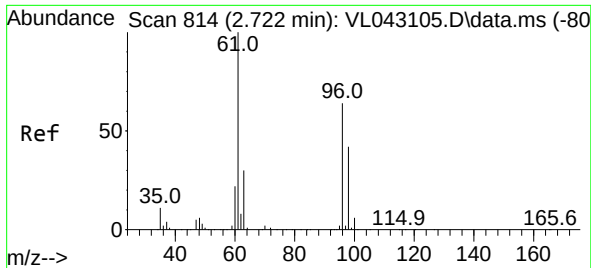
Ion Ratio Lower Upper

84 100

56 119.8 100.9 151.3

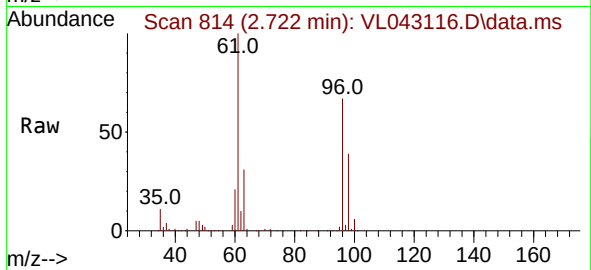
41 75.6 63.8 95.6





#31
 cis-1,2-Dichloroethene
 Concen: 9.596 ppbv
 RT: 2.722 min Scan# 814
 Delta R.T. -0.000 min
 Lab File: VL043116.D
 Acq: 15 Oct 2025 10:15

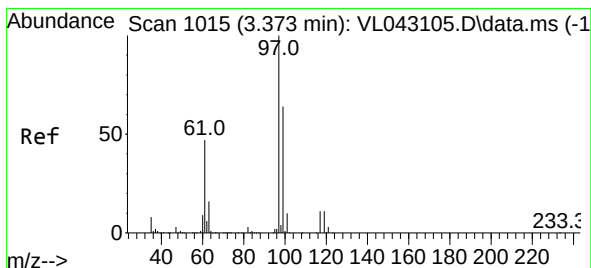
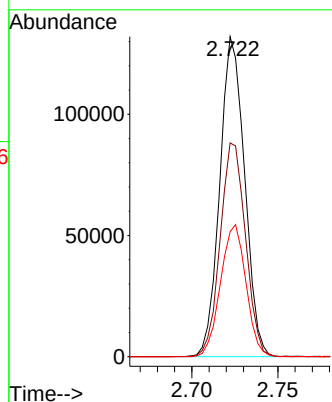
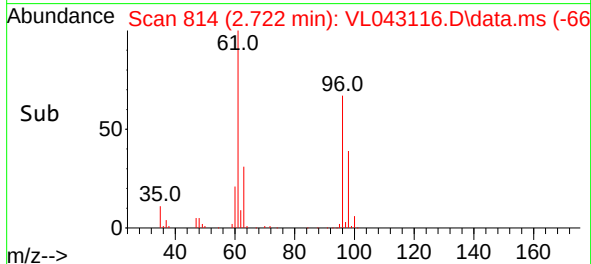
Instrument :
 MSVOA_L
 ClientSampleId :
 VL1015ABS01



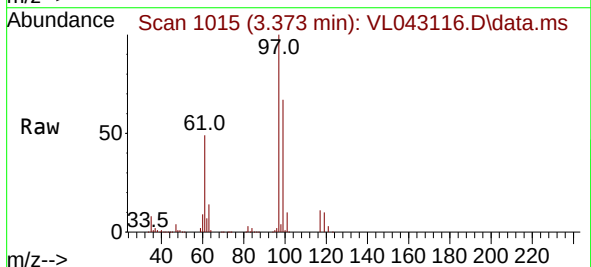
Tgt Ion: 61 Resp: 132438
 Ion Ratio Lower Upper
 61 100
 96 66.7 51.0 76.6
 98 39.1 33.5 50.3

Manual Integrations
 APPROVED

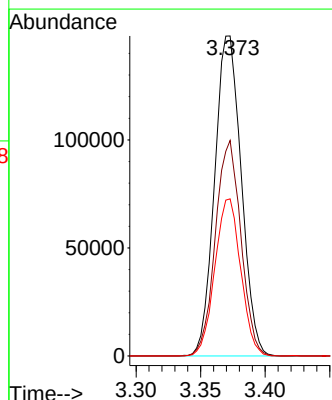
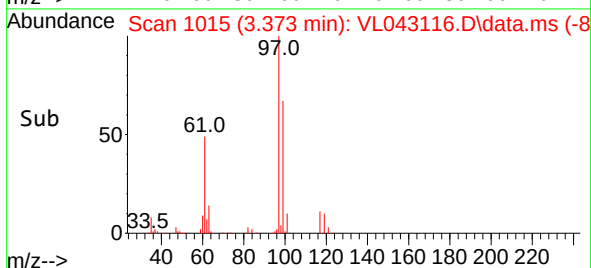
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/17/2025

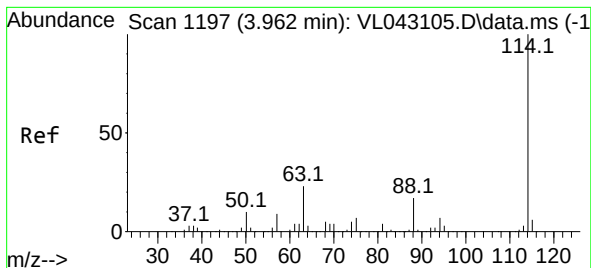


#32
 1,1,1-Trichloroethane
 Concen: 9.741 ppbv
 RT: 3.373 min Scan# 1015
 Delta R.T. -0.000 min
 Lab File: VL043116.D
 Acq: 15 Oct 2025 10:15



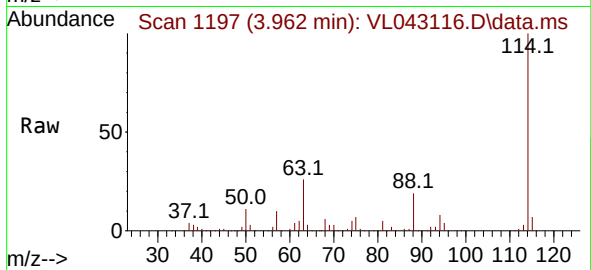
Tgt Ion: 97 Resp: 212419
 Ion Ratio Lower Upper
 97 100
 99 64.5 51.3 76.9
 61 47.8 38.4 57.6





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. -0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

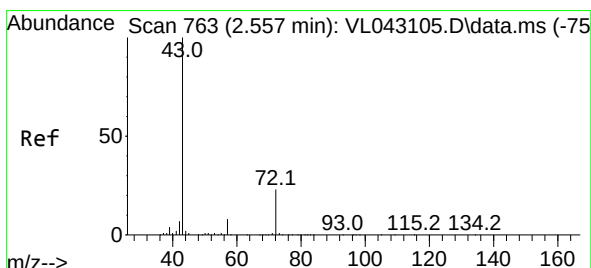
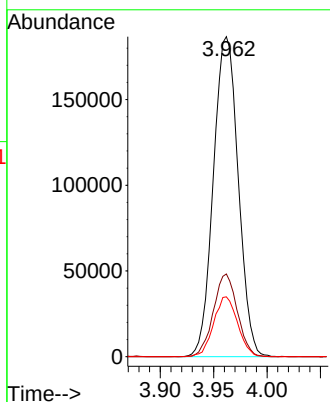
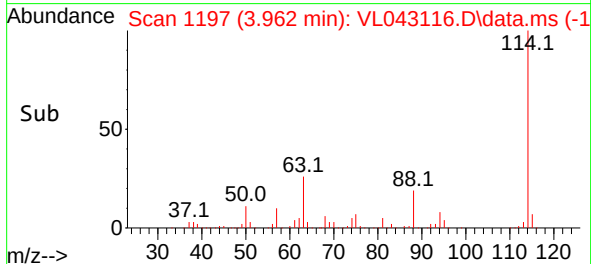
Instrument :
MSVOA_L
ClientSampleId :
VL1015ABS01



Tgt Ion:114 Resp: 30246
Ion Ratio Lower Upper
114 100
63 25.0 19.3 28.9
88 18.1 13.9 20.9

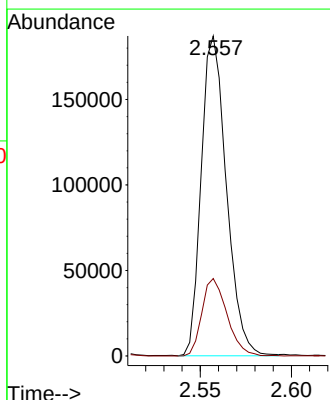
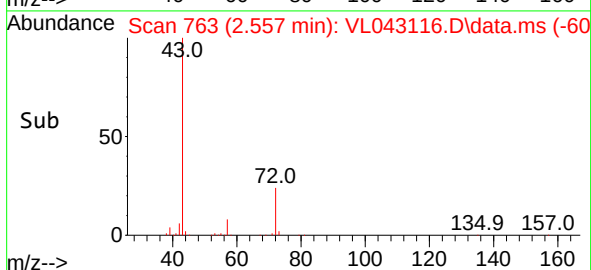
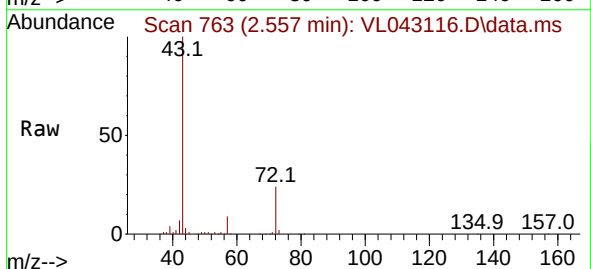
Manual Integrations
APPROVED

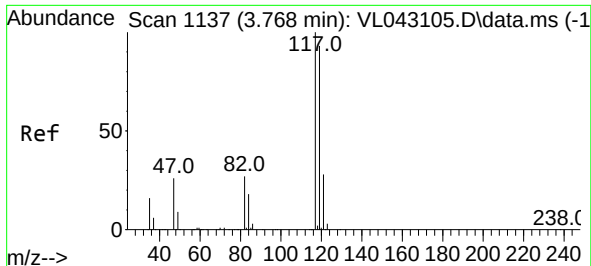
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025



#34
2-Butanone
Concen: 8.858 ppbv
RT: 2.557 min Scan# 763
Delta R.T. -0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

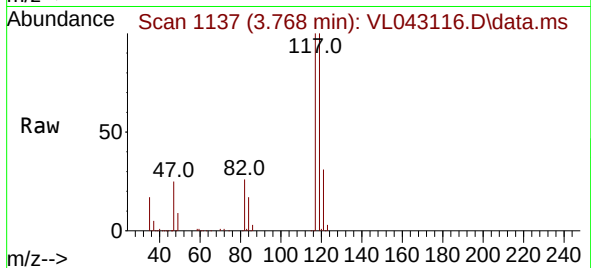
Tgt Ion: 43 Resp: 180097
Ion Ratio Lower Upper
43 100
72 24.1 18.4 27.6





#35
Carbon Tetrachloride
Concen: 9.739 ppbv
RT: 3.768 min Scan# 1137
Delta R.T. -0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

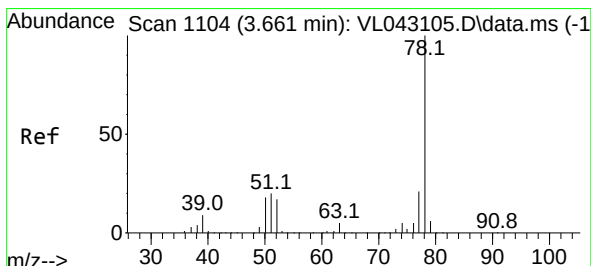
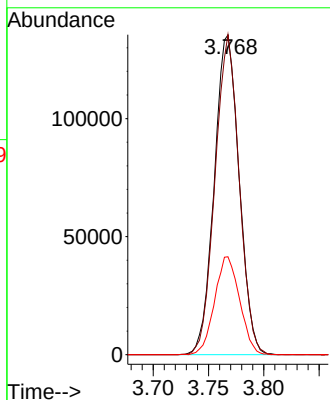
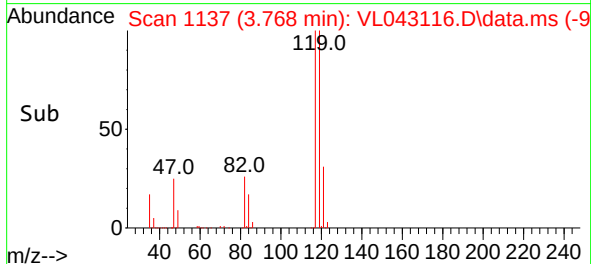
Instrument : MSVOA_L
ClientSampleId : VL1015ABS01



Tgt Ion: 117 Resp: 211777
Ion Ratio Lower Upper
117 100
119 100.1 74.1 111.1
121 30.6 22.2 33.2

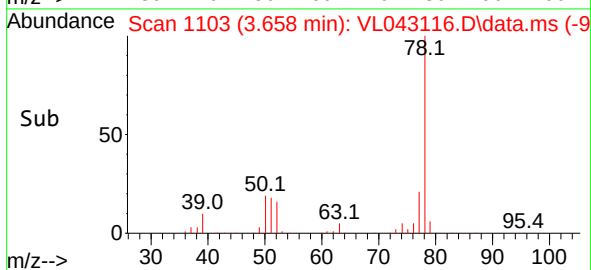
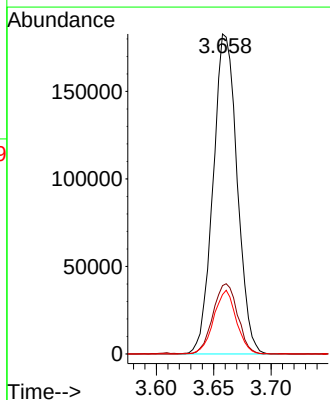
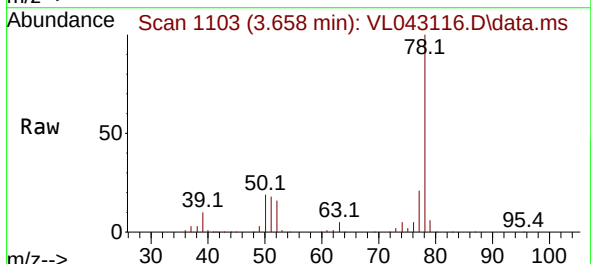
Manual Integrations
APPROVED

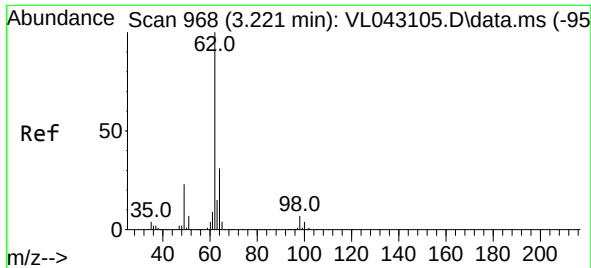
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025



#36
Benzene
Concen: 9.354 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. -0.003 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

Tgt Ion: 78 Resp: 266465
Ion Ratio Lower Upper
78 100
77 21.3 17.0 25.6
50 18.6 14.6 22.0





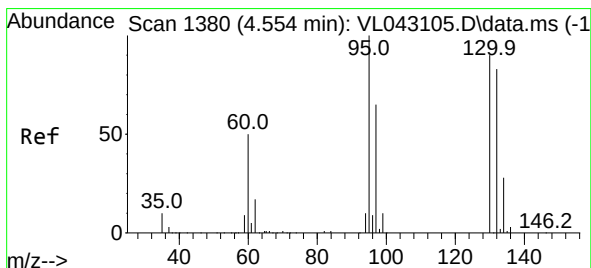
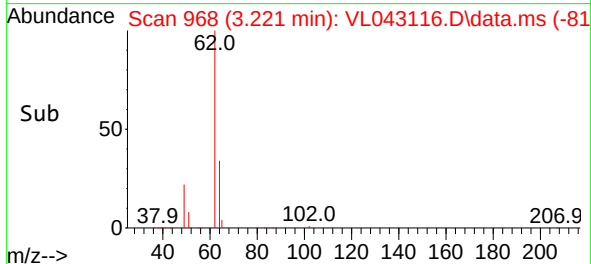
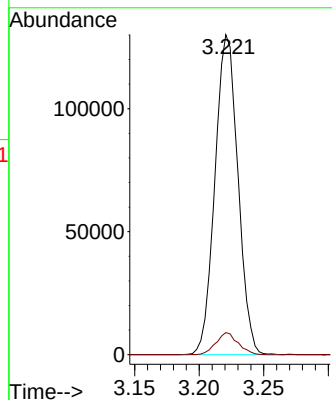
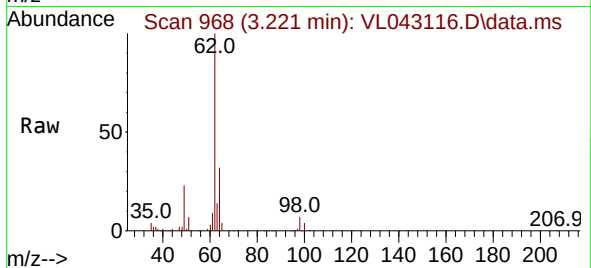
#37
1,2-Dichloroethane
Concen: 9.808 ppbv
RT: 3.221 min Scan# 90
Delta R.T. -0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

Instrument :
MSVOA_L
ClientSampleId :
VL1015ABS01

Tgt Ion: 62 Resp: 160950
Ion Ratio Lower Upper
62 100
98 6.6 5.8 8.6

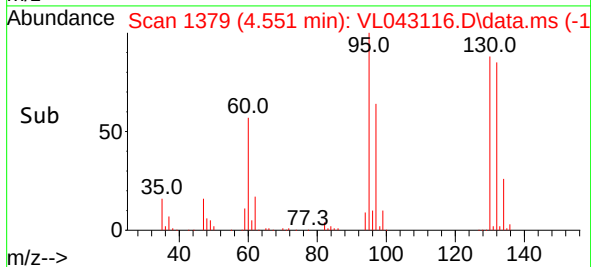
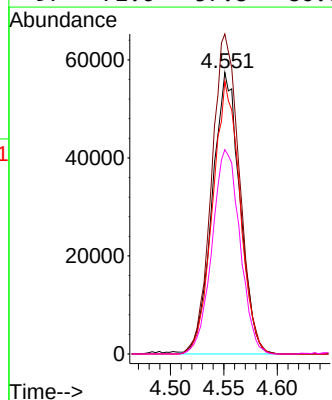
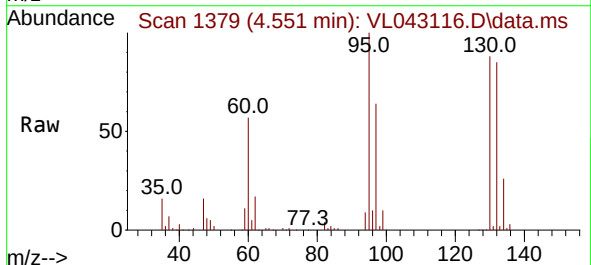
Manual Integrations
APPROVED

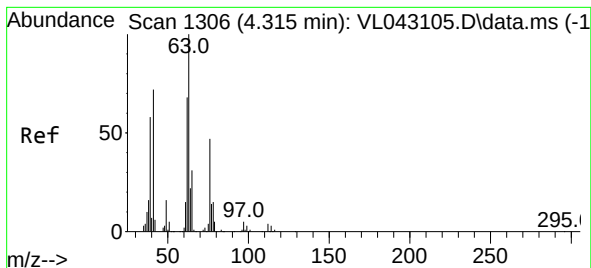
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025



#38
Trichloroethene
Concen: 8.665 ppbv
RT: 4.551 min Scan# 1379
Delta R.T. -0.003 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

Tgt Ion:130 Resp: 103087
Ion Ratio Lower Upper
130 100
95 113.7 88.6 133.0
132 96.9 73.4 110.0
97 72.6 57.8 86.6





#39

1,2-Dichloropropane

Concen: 8.890 ppbv

RT: 4.315 min Scan# 1306

Delta R.T. -0.000 min

Lab File: VL043116.D

Acq: 15 Oct 2025 10:15

Instrument :

MSVOA_L

ClientSampleId :

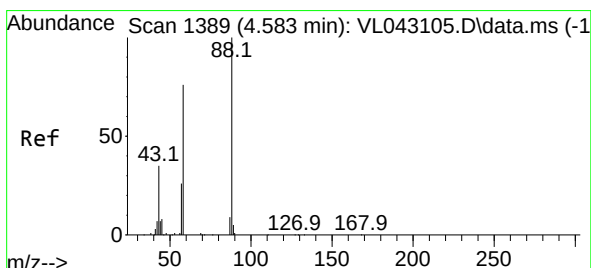
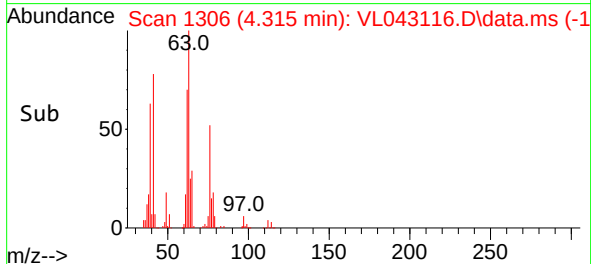
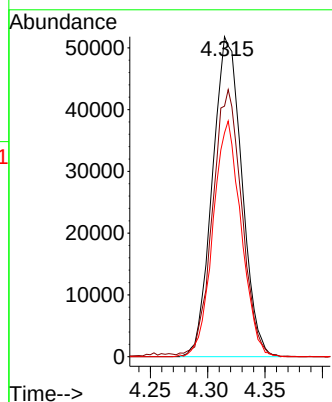
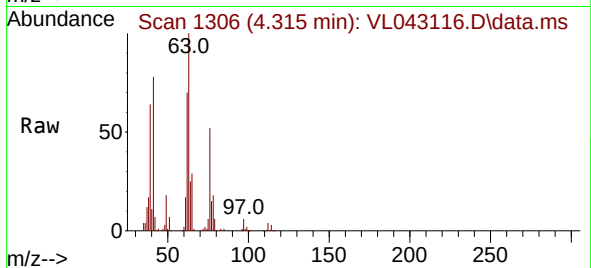
VL1015ABS01

Tgt Ion:	63	Resp:	9258
Ion	Ratio	Lower	Upper
63	100		
41	78.1	58.0	87.0
62	69.8	54.7	82.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025



#40

1,4-Dioxane

Concen: 9.263 ppbv

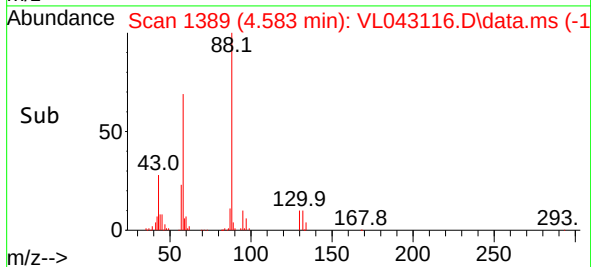
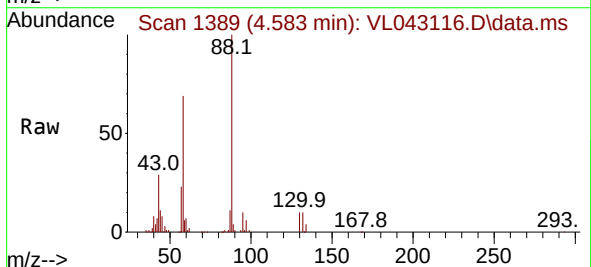
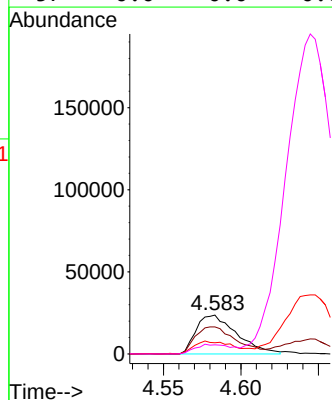
RT: 4.583 min Scan# 1389

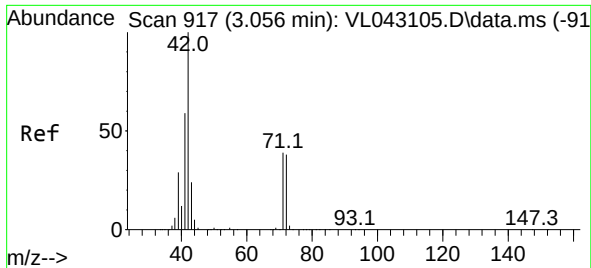
Delta R.T. -0.000 min

Lab File: VL043116.D

Acq: 15 Oct 2025 10:15

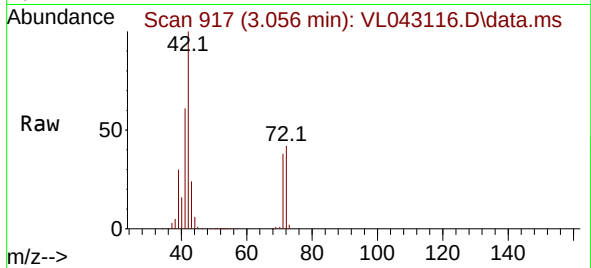
Tgt Ion:	88	Resp:	43167
Ion	Ratio	Lower	Upper
88	100		
58	71.8	61.1	91.7
43	34.4	24.0	36.0
57	0.0	0.0	0.0





#41
Tetrahydrofuran
Concen: 8.435 ppbv
RT: 3.056 min Scan# 917
Delta R.T. -0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

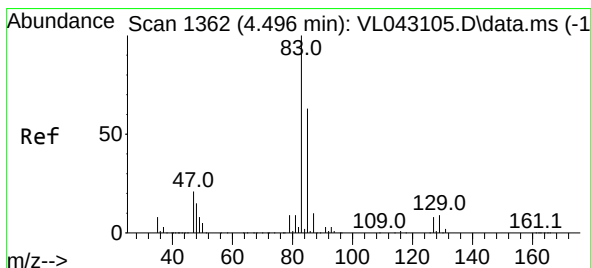
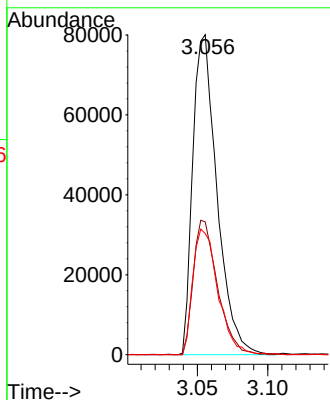
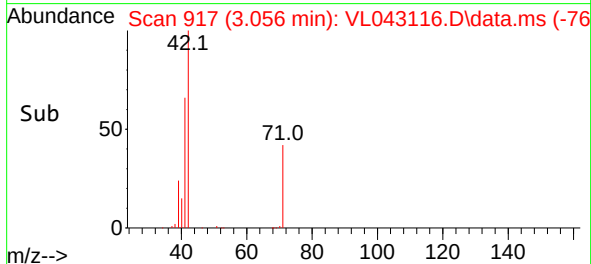
Instrument :
MSVOA_L
ClientSampleId :
VL1015ABS01



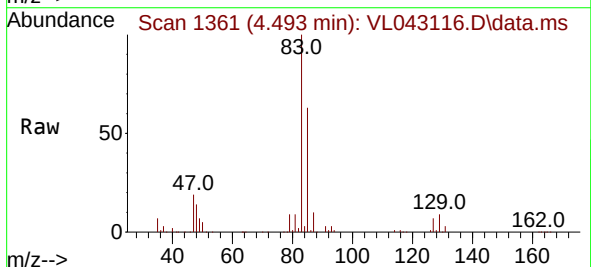
Tgt Ion: 42 Resp: 95919
Ion Ratio Lower Upper
42 100
72 42.0 31.3 46.9
71 40.6 30.4 45.6

Manual Integrations
APPROVED

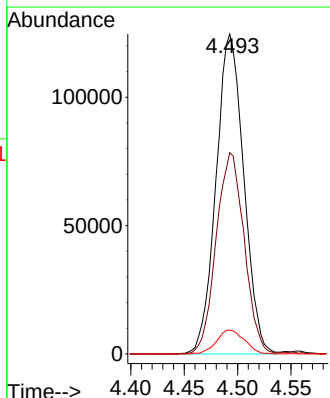
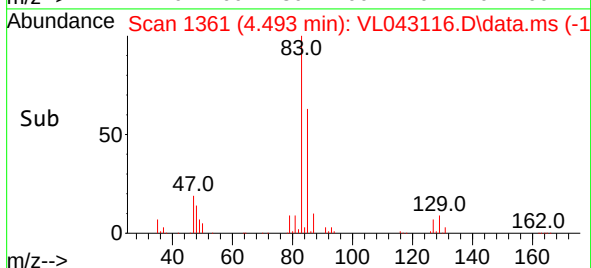
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025

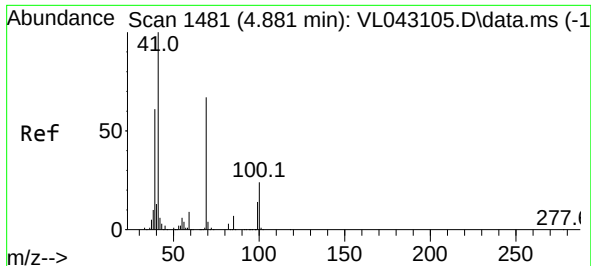


#42
Bromodichloromethane
Concen: 9.904 ppbv
RT: 4.493 min Scan# 1361
Delta R.T. -0.003 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15



Tgt Ion: 83 Resp: 224949
Ion Ratio Lower Upper
83 100
85 62.9 50.6 75.8
127 7.4 6.3 9.5





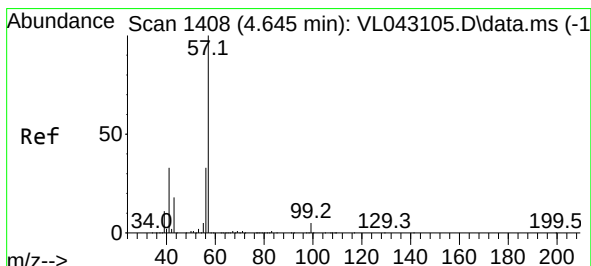
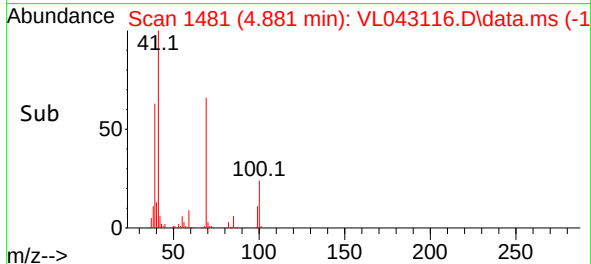
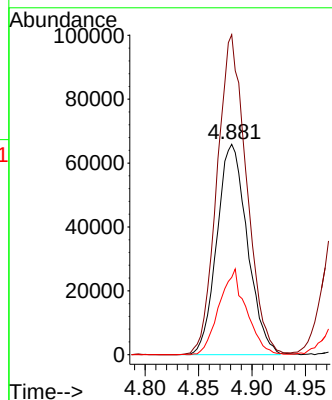
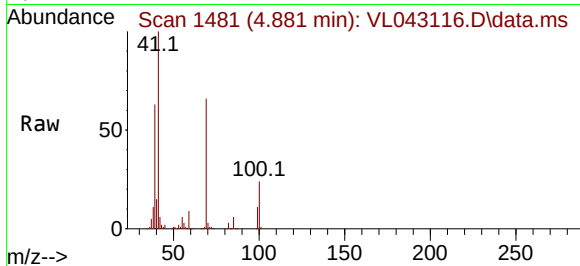
#43
Methyl Methacrylate
Concen: 9.011 ppbv
RT: 4.881 min Scan# 1481
Delta R.T. -0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

Instrument : MSVOA_L
ClientSampleId : VL1015ABS01

Tgt Ion: 69 Resp: 130372
Ion Ratio Lower Upper
69 100
41 147.8 120.5 180.7
100 36.5 29.0 43.4

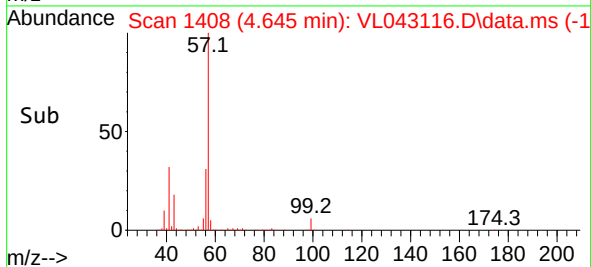
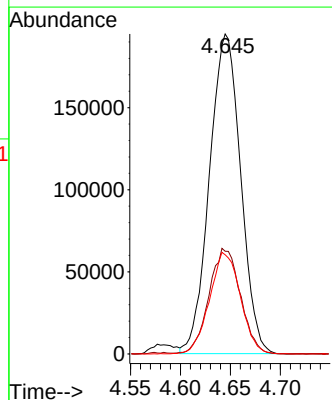
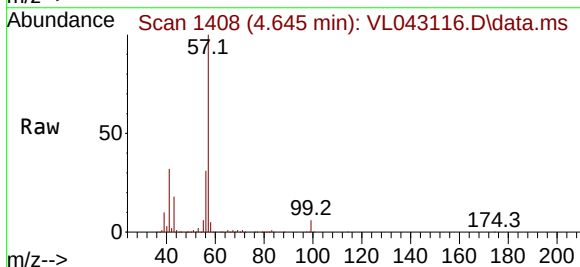
Manual Integrations
APPROVED

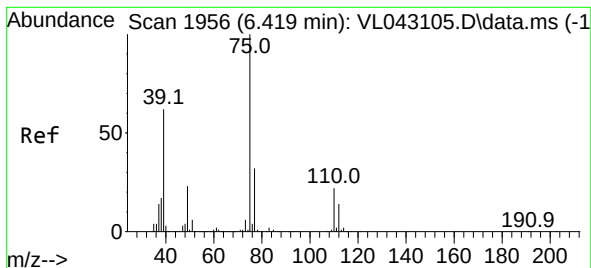
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025



#44
2,2,4-Trimethylpentane
Concen: 8.802 ppbv
RT: 4.645 min Scan# 1408
Delta R.T. -0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

Tgt Ion: 57 Resp: 423028
Ion Ratio Lower Upper
57 100
41 33.5 26.3 39.5
56 31.5 25.9 38.9





#45

t-1,3-Dichloropropene

Concen: 9.413 ppbv

RT: 6.418 min Scan# 1956

Delta R.T. -0.000 min

Lab File: VL043116.D

Acq: 15 Oct 2025 10:15

Instrument :

MSVOA_L

ClientSampleId :

VL1015ABS01

Tgt Ion: 75 Resp: 136672

Ion Ratio Lower Upper

75 100

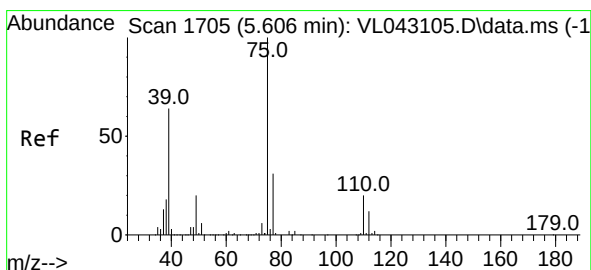
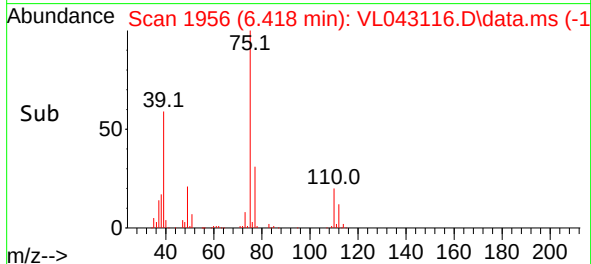
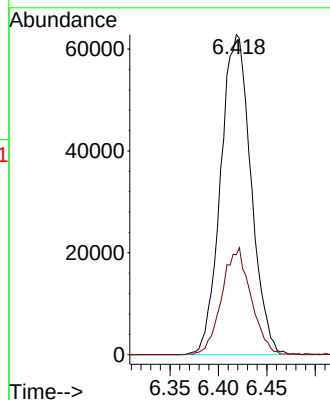
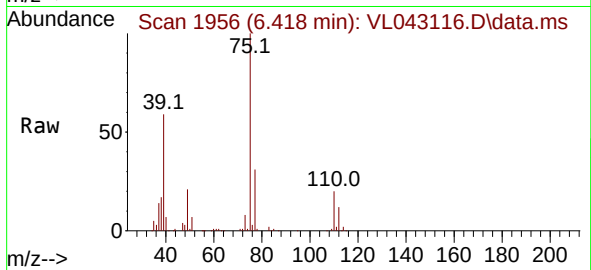
77 31.2 25.4 38.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/17/2025



#46

cis-1,3-Dichloropropene

Concen: 9.296 ppbv

RT: 5.603 min Scan# 1704

Delta R.T. -0.003 min

Lab File: VL043116.D

Acq: 15 Oct 2025 10:15

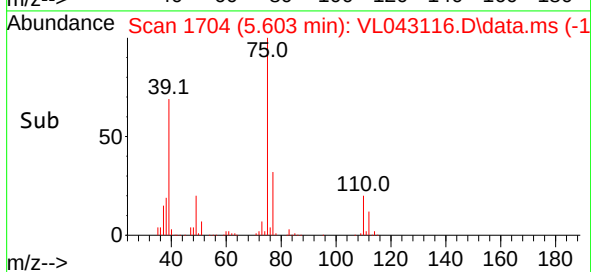
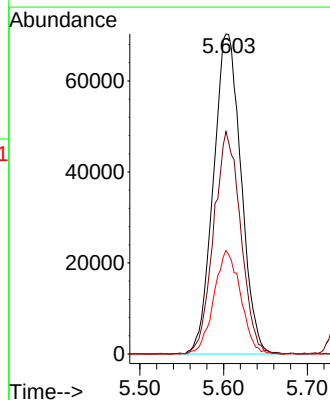
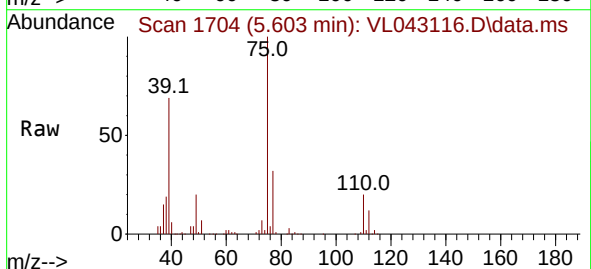
Tgt Ion: 75 Resp: 161245

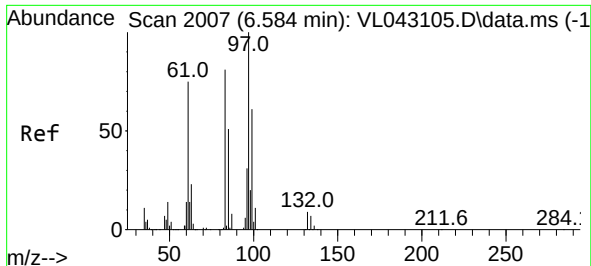
Ion Ratio Lower Upper

75 100

39 69.2 51.0 76.6

77 32.3 25.0 37.4





#47

1,1,2-Trichloroethane

Concen: 9.146 ppbv

RT: 6.583 min Scan# 2007

Delta R.T. -0.000 min

Lab File: VL043116.D

Acq: 15 Oct 2025 10:15

Instrument :

MSVOA_L

ClientSampleId :

VL1015ABS01

Tgt Ion: 97 Resp: 10286

Ion Ratio Lower Upper

97 100

83 84.1 64.6 96.8

85 55.3 40.6 60.8

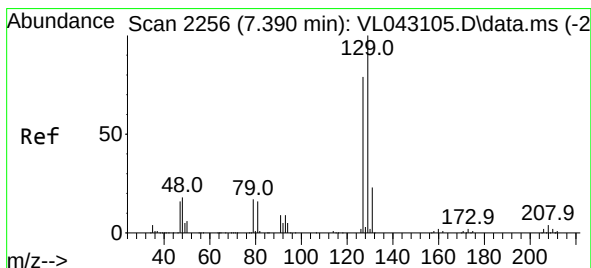
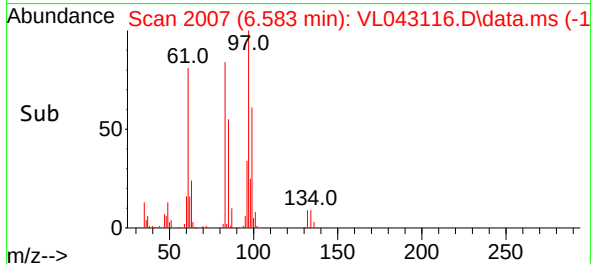
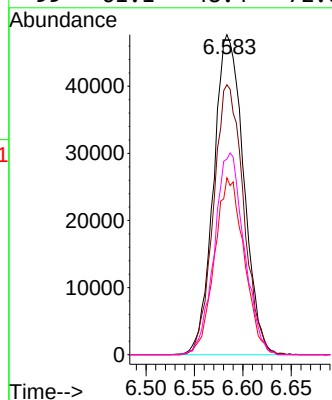
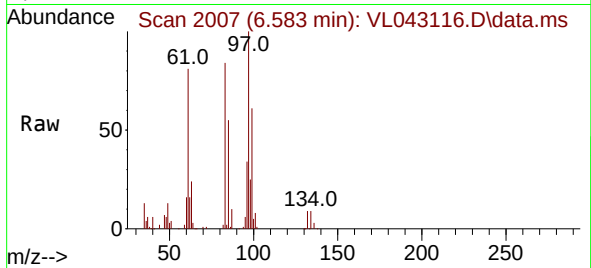
99 61.1 48.4 72.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/17/2025



#48

Dibromochloromethane

Concen: 9.626 ppbv

RT: 7.389 min Scan# 2256

Delta R.T. -0.000 min

Lab File: VL043116.D

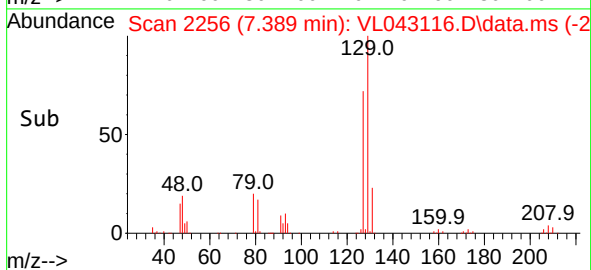
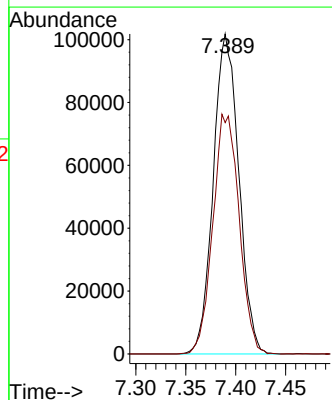
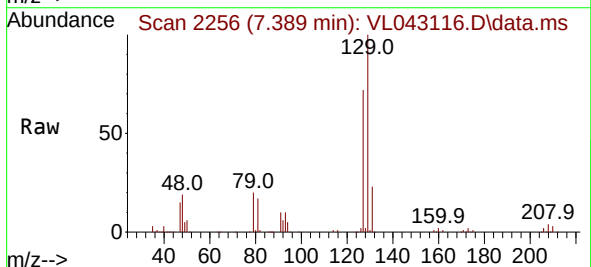
Acq: 15 Oct 2025 10:15

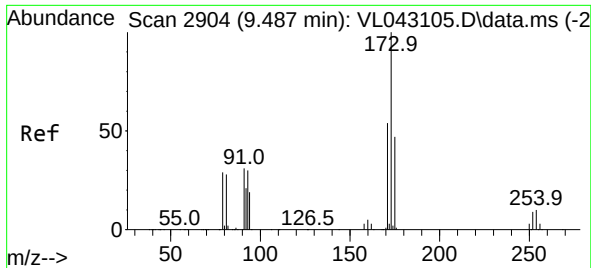
Tgt Ion:129 Resp: 180998

Ion Ratio Lower Upper

129 100

127 77.3 39.3 117.9





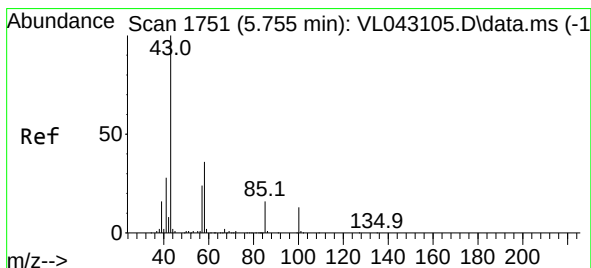
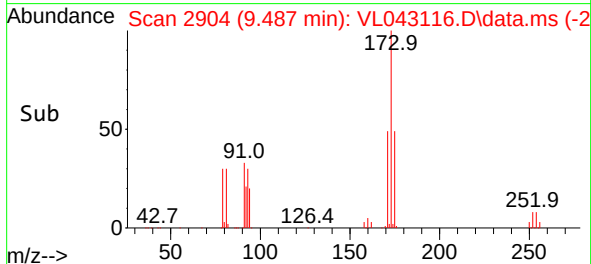
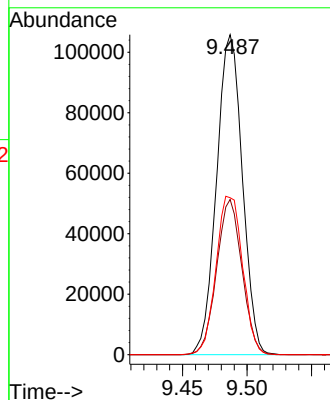
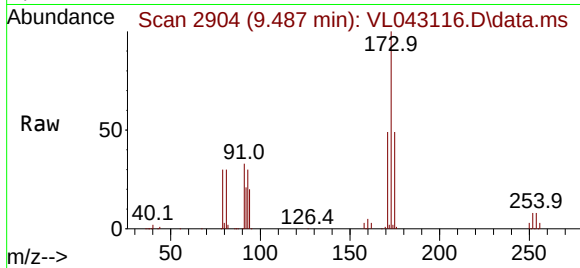
#49
Bromoform
Concen: 9.615 ppbv
RT: 9.487 min Scan# 2904
Delta R.T. -0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

Instrument :
MSVOA_L
ClientSampleId :
VL1015ABS01

Tgt Ion:173 Resp: 14695
Ion Ratio Lower Upper
173 100
175 47.6 38.8 58.2
171 51.0 41.7 62.5

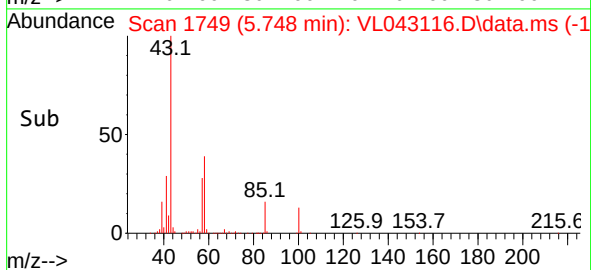
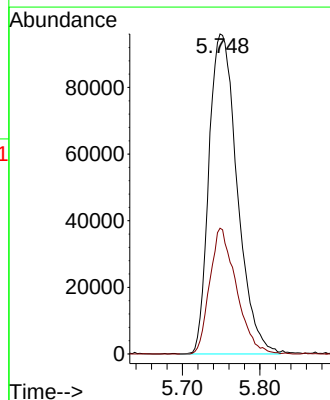
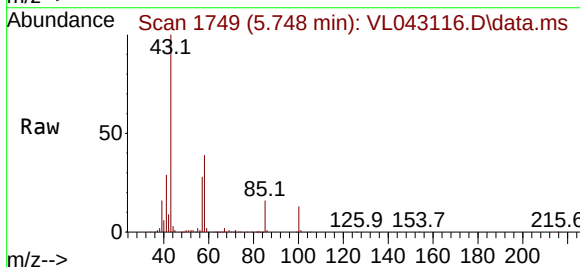
Manual Integrations
APPROVED

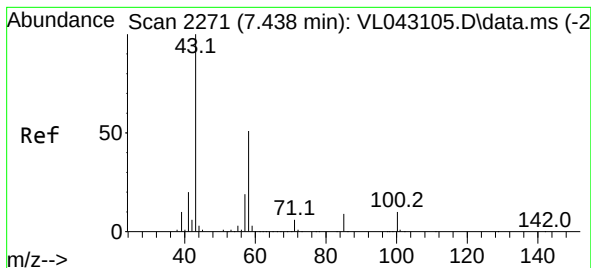
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025



#50
4-Methyl-2-Pentanone
Concen: 8.680 ppbv
RT: 5.748 min Scan# 1749
Delta R.T. -0.007 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

Tgt Ion: 43 Resp: 243541
Ion Ratio Lower Upper
43 100
58 36.9 29.1 43.7





#51

2-Hexanone

Concen: 8.851 ppbv

RT: 7.438 min Scan# 21

Delta R.T. -0.000 min

Lab File: VL043116.D

Acq: 15 Oct 2025 10:15

Instrument :

MSVOA_L

ClientSampleId :

VL1015ABS01

Tgt Ion: 43 Resp: 18628

Ion Ratio Lower Upper

43 100

58 51.2 40.4 60.6

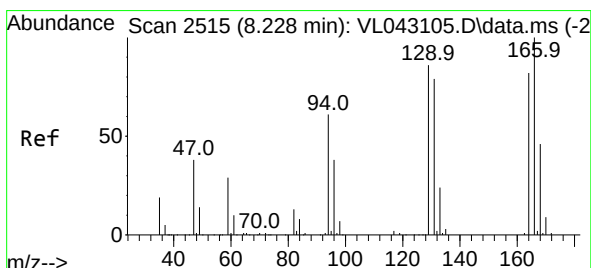
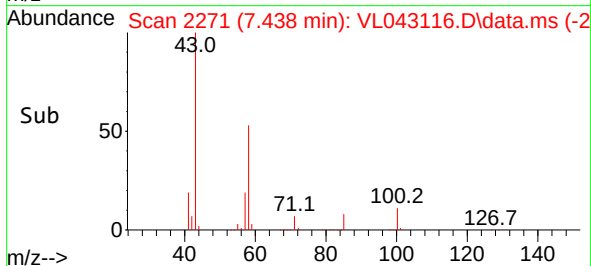
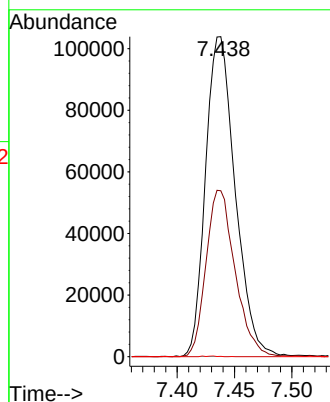
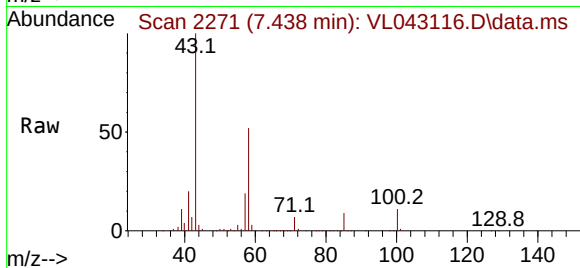
98 0.1 0.1 0.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/17/2025



#52

Tetrachloroethene

Concen: 8.704 ppbv

RT: 8.228 min Scan# 2515

Delta R.T. -0.000 min

Lab File: VL043116.D

Acq: 15 Oct 2025 10:15

Tgt Ion:164 Resp: 89410

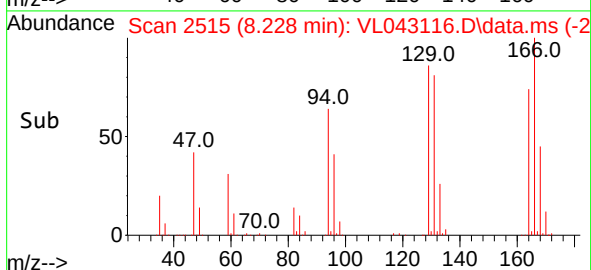
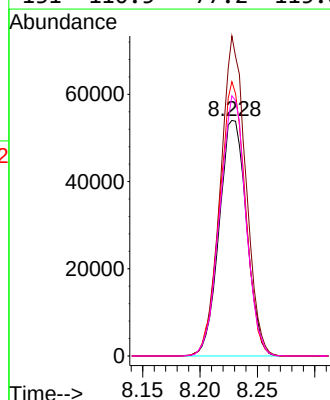
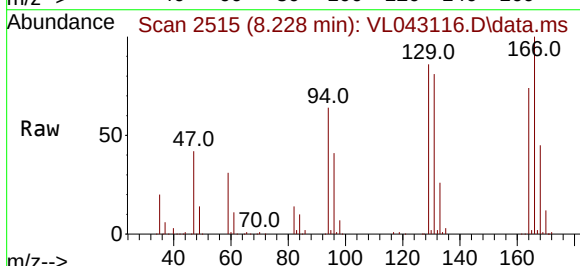
Ion Ratio Lower Upper

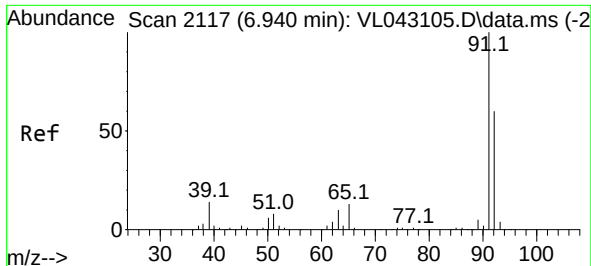
164 100

166 135.9 97.6 146.4

129 116.5 84.5 126.7

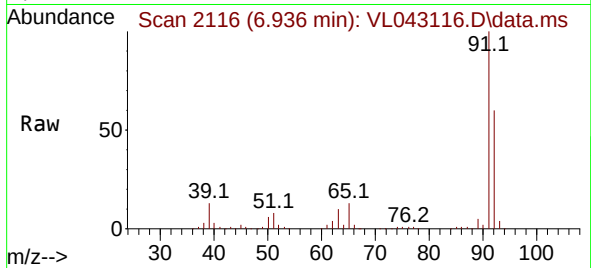
131 110.5 77.2 115.8





#53
Toluene
Concen: 9.072 ppbv
RT: 6.936 min Scan# 2117
Delta R.T. -0.004 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

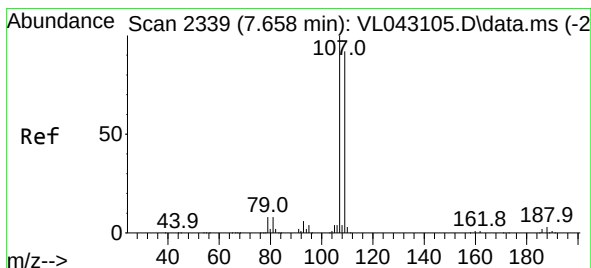
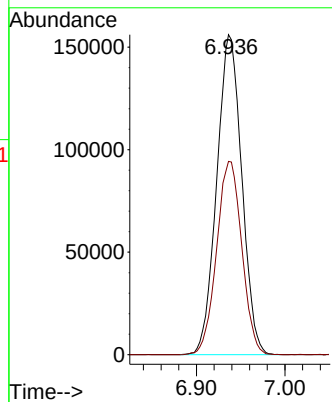
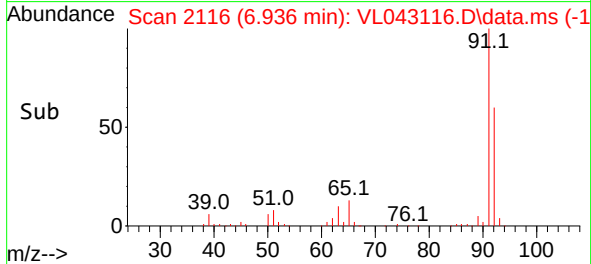
Instrument :
MSVOA_L
ClientSampleId :
VL1015ABS01



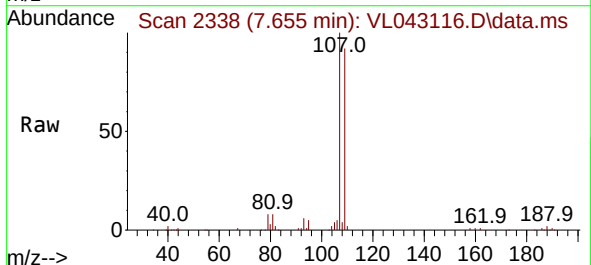
Tgt Ion: 91 Resp: 306729
Ion Ratio Lower Upper
91 100
92 60.8 48.8 73.2

Manual Integrations
APPROVED

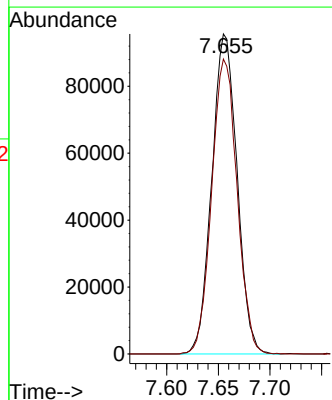
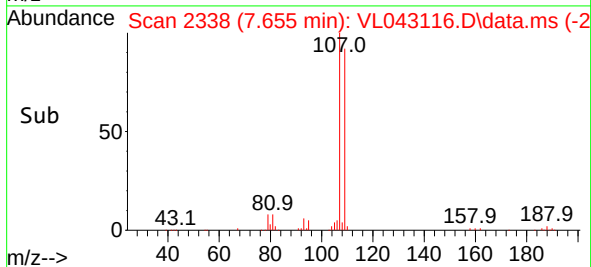
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025

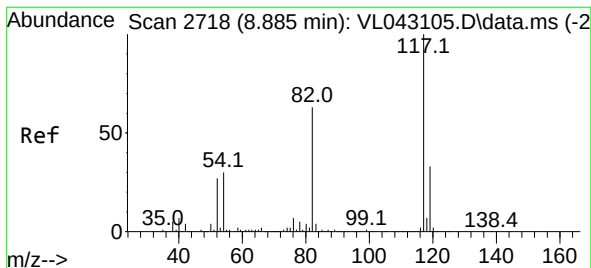


#54
1,2-Dibromoethane
Concen: 9.226 ppbv
RT: 7.655 min Scan# 2338
Delta R.T. -0.003 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15



Tgt Ion:107 Resp: 162517
Ion Ratio Lower Upper
107 100
109 92.1 73.4 110.2





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.885 min Scan# 2718

Delta R.T. -0.000 min

Lab File: VL043116.D

Acq: 15 Oct 2025 10:15

Instrument :

MSVOA_L

ClientSampleId :

VL1015ABS01

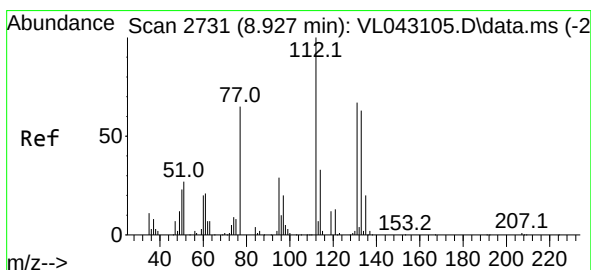
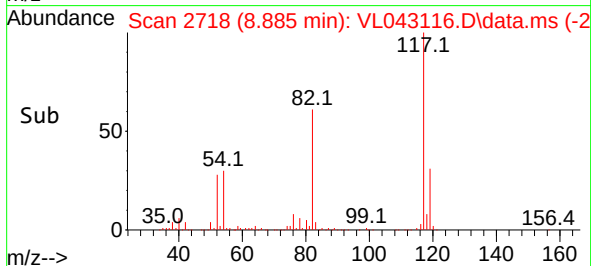
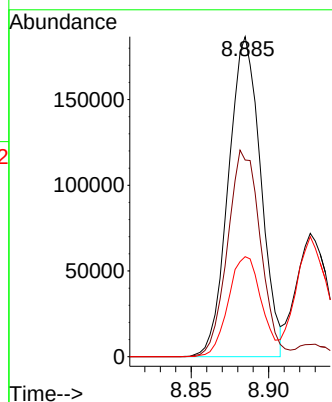
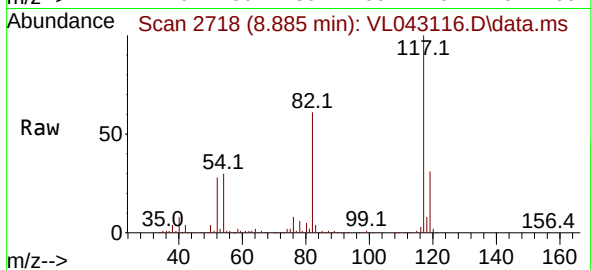
Tgt Ion:117 Resp: 271209

Ion	Ratio	Lower	Upper
117	100		
82	69.5	53.8	80.8
119	32.4	25.4	38.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025



#56

1,1,1,2-Tetrachloroethane

Concen: 9.419 ppbv

RT: 8.927 min Scan# 2731

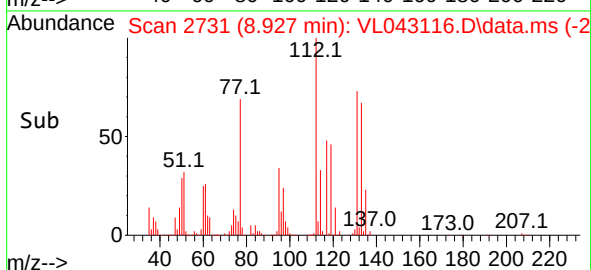
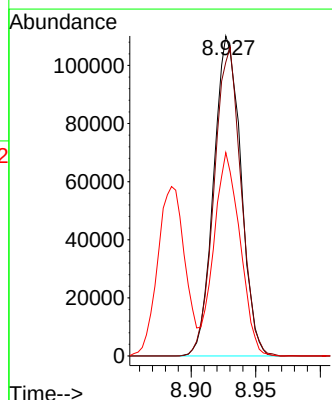
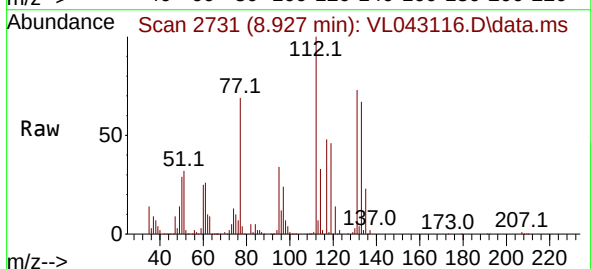
Delta R.T. -0.000 min

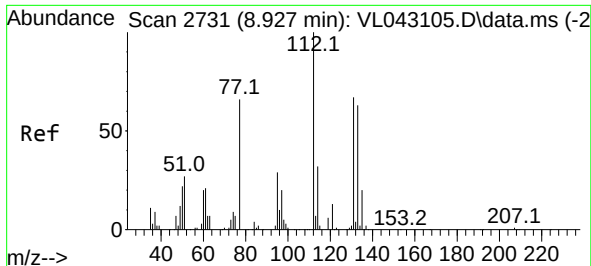
Lab File: VL043116.D

Acq: 15 Oct 2025 10:15

Tgt Ion:131 Resp: 161028

Ion	Ratio	Lower	Upper
131	100		
133	95.7	75.7	113.5
119	61.8	50.6	76.0





#57

Chlorobenzene

Concen: 8.946 ppbv

RT: 8.924 min Scan# 21

Delta R.T. -0.003 min

Lab File: VL043116.D

Acq: 15 Oct 2025 10:15

Instrument :

MSVOA_L

ClientSampleId :

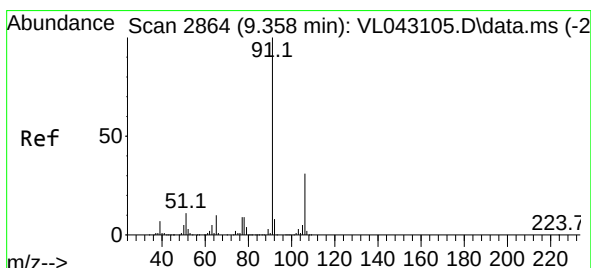
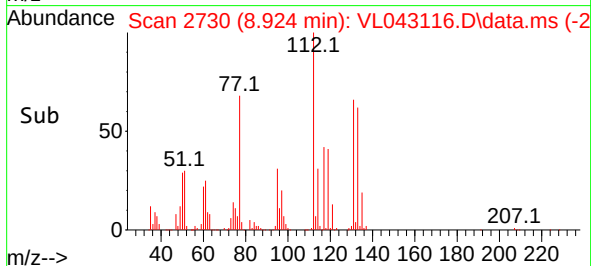
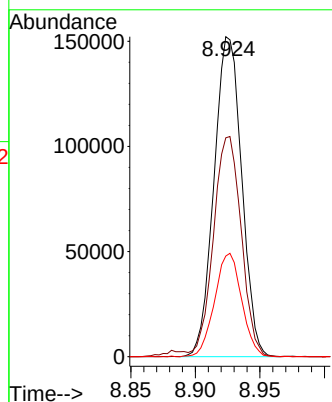
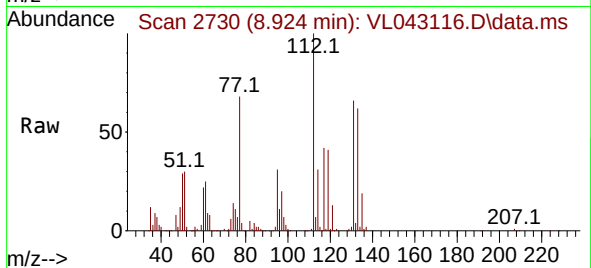
VL1015ABS01

Tgt Ion:	112	Resp:	226970
Ion Ratio	Lower	Upper	
112	100		
77	68.3	53.3	79.9
114	31.5	29.3	35.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025



#58

Ethyl Benzene

Concen: 9.083 ppbv

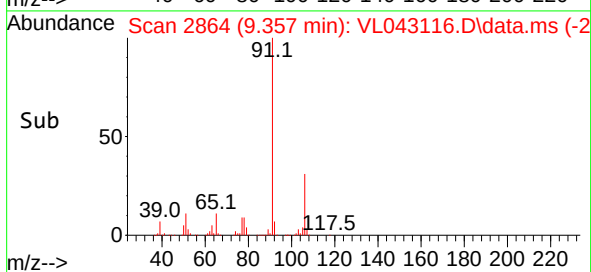
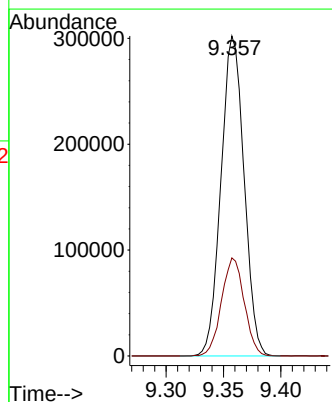
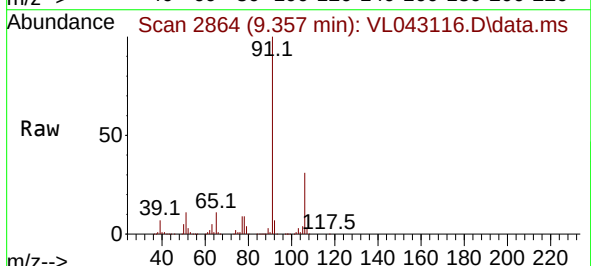
RT: 9.357 min Scan# 2864

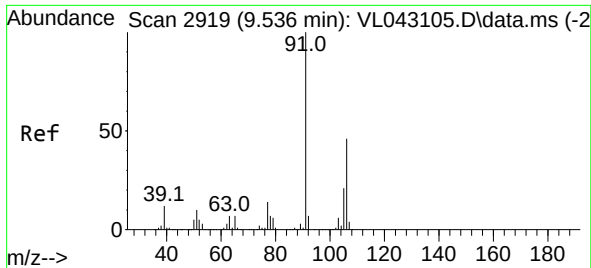
Delta R.T. -0.000 min

Lab File: VL043116.D

Acq: 15 Oct 2025 10:15

Tgt Ion:	91	Resp:	422762
Ion Ratio	Lower	Upper	
91	100		
106	30.7	24.8	37.2





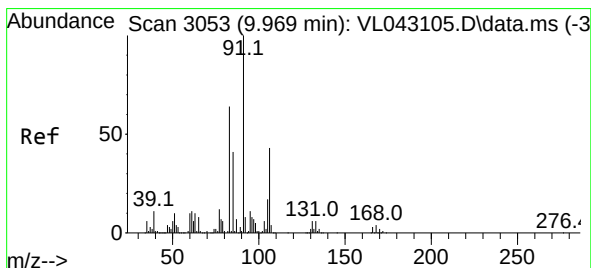
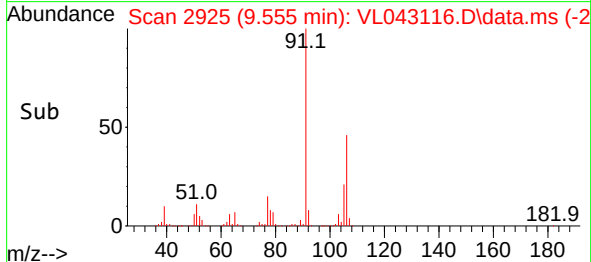
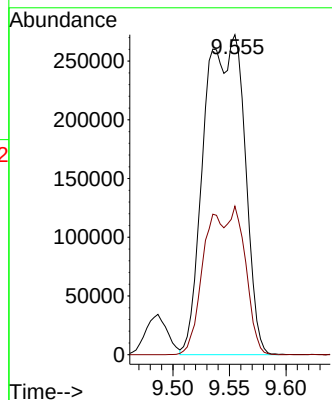
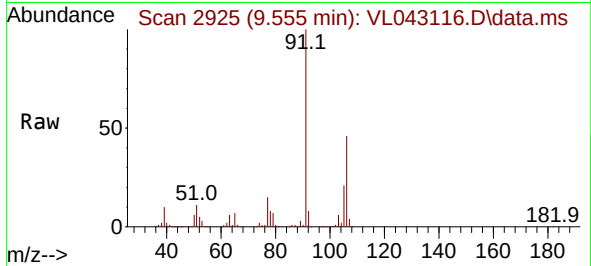
#59
m/p-Xylene
Concen: 18.262 ppbv m
RT: 9.555 min Scan# 2919
Delta R.T. 0.019 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

Instrument :
MSVOA_L
ClientSampleId :
VL1015ABS01

Tgt Ion: 91 Resp: 677982
Ion Ratio Lower Upper
91 100
106 0.0 38.0 57.0

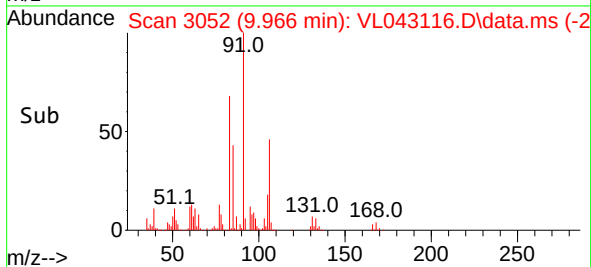
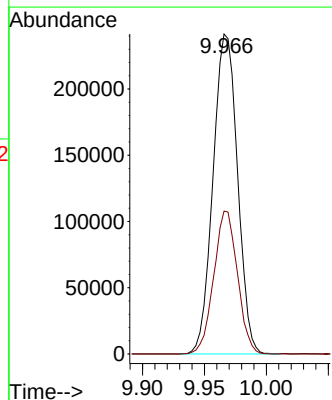
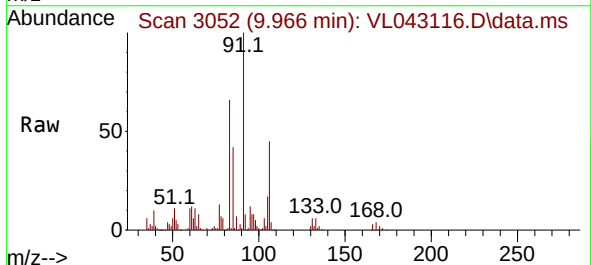
Manual Integrations
APPROVED

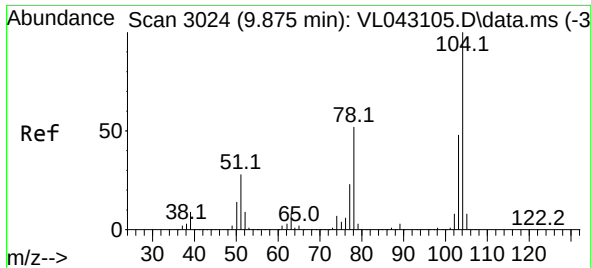
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025



#60
o-Xylene
Concen: 9.071 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. -0.003 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

Tgt Ion: 91 Resp: 332591
Ion Ratio Lower Upper
91 100
106 43.2 21.9 65.8





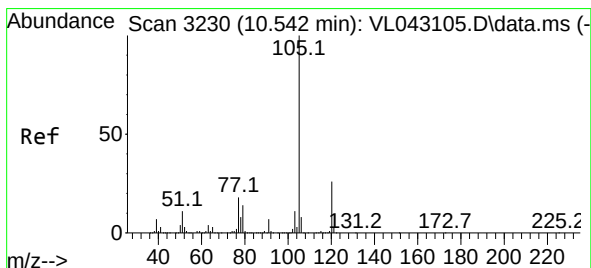
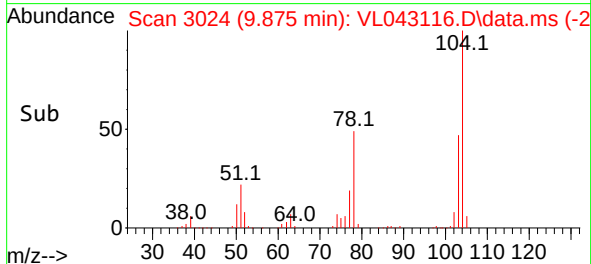
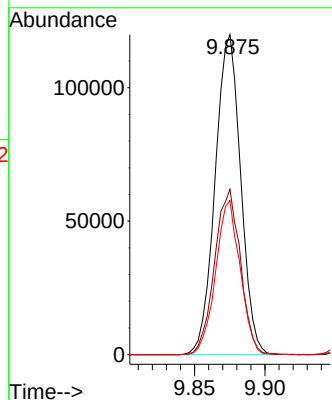
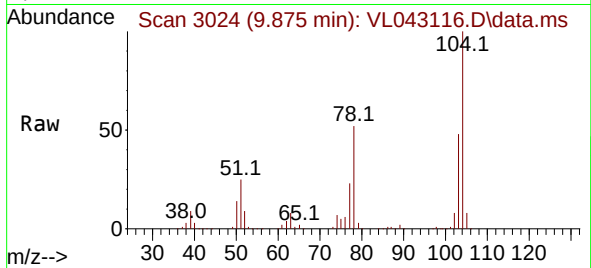
#61
Styrene
Concen: 9.161 ppbv
RT: 9.875 min Scan# 3024
Delta R.T. -0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

Instrument : MSVOA_L
ClientSampleId : VL1015ABS01

Tgt Ion:104 Resp: 15163
Ion Ratio Lower Upper
104 100
78 52.1 40.2 60.2
103 46.3 36.9 55.3

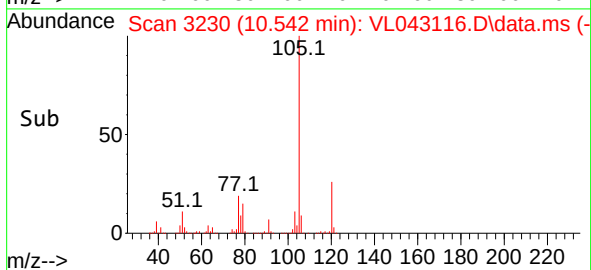
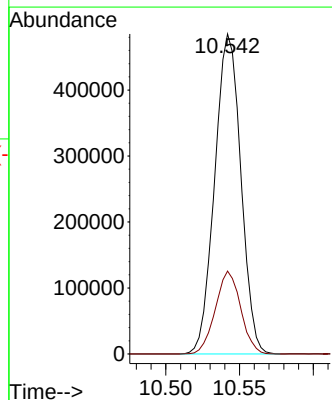
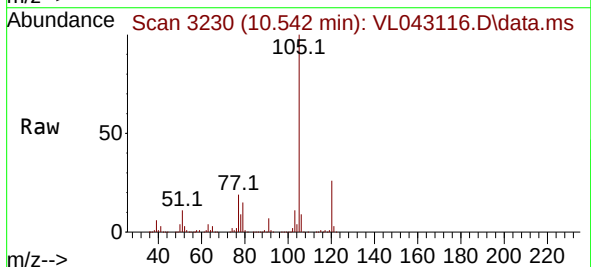
Manual Integrations
APPROVED

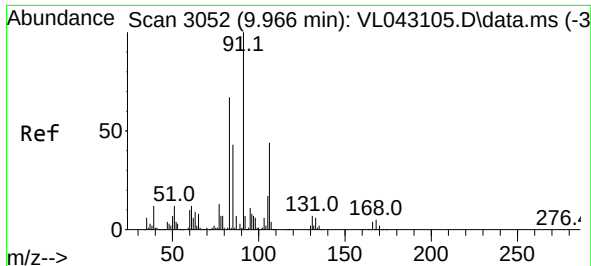
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025



#62
Isopropylbenzene
Concen: 9.027 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. -0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

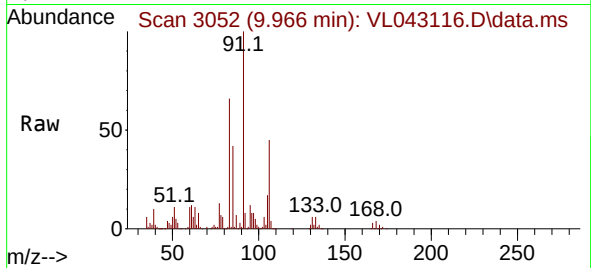
Tgt Ion:105 Resp: 598060
Ion Ratio Lower Upper
105 100
120 25.0 20.2 30.4





#63
1,1,2,2-Tetrachloroethane
Concen: 8.598 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. -0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

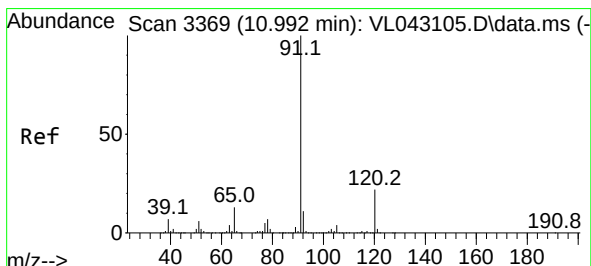
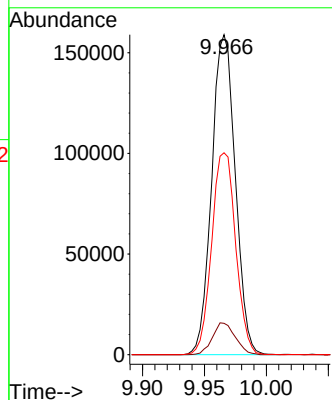
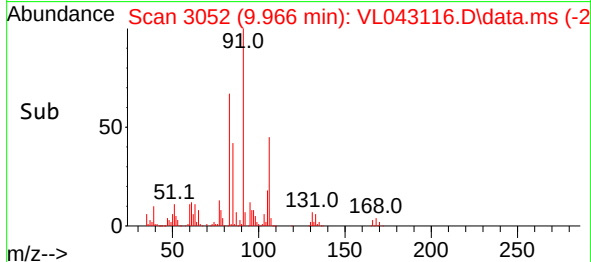
Instrument : MSVOA_L
ClientSampleId : VL1015ABS01



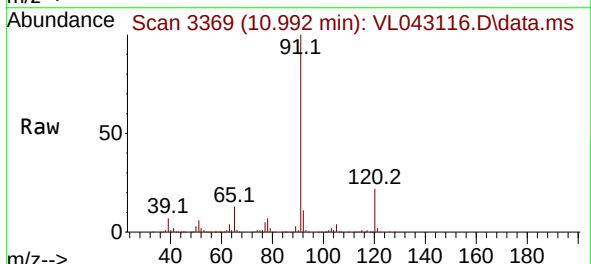
Tgt Ion: 83 Resp: 21110
Ion Ratio Lower Upper
83 100
131 9.6 4.8 14.3
85 64.2 32.0 96.0

Manual Integrations
APPROVED

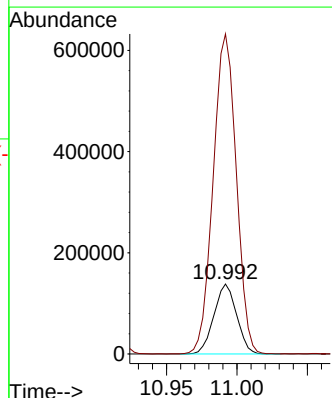
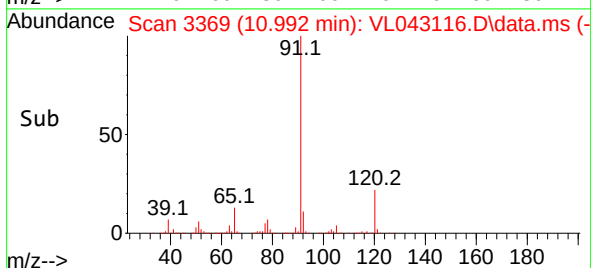
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025

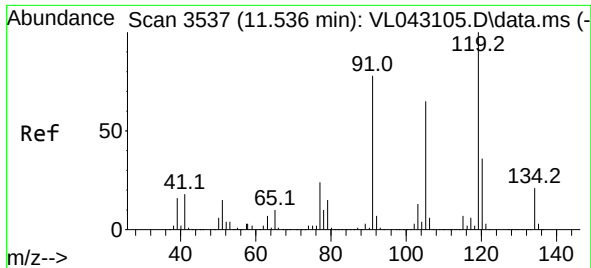


#64
n-propylbenzene
Concen: 8.810 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. -0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15



Tgt Ion:120 Resp: 154542
Ion Ratio Lower Upper
120 100
91 467.1 361.6 542.4





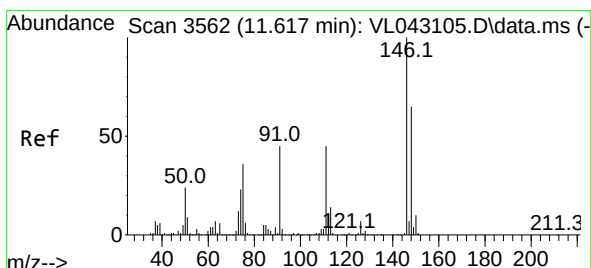
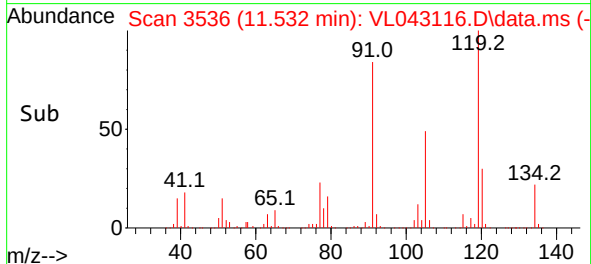
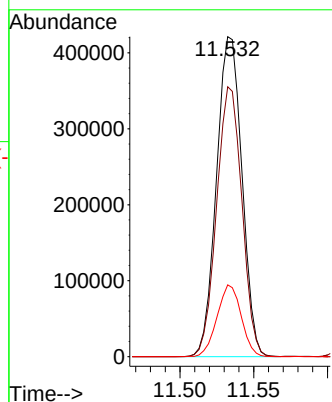
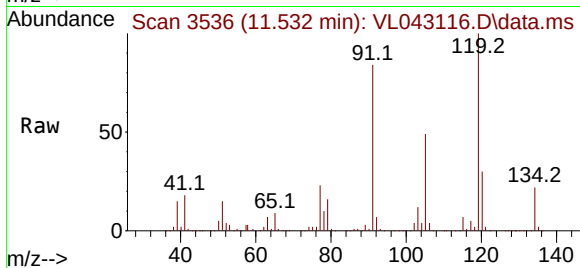
#65
tert-Butylbenzene
Concen: 8.650 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.003 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

Instrument :
MSVOA_L
ClientSampleId :
VL1015ABS01

Tgt Ion:119 Resp: 506098
Ion Ratio Lower Upper
119 100
91 83.8 63.4 95.0
134 21.3 17.3 25.9

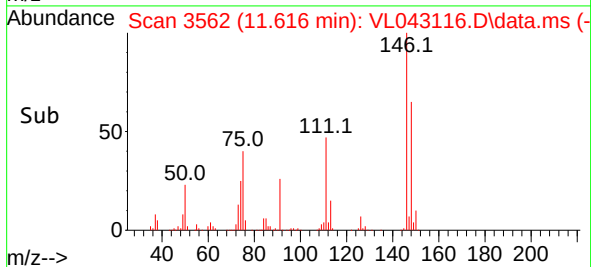
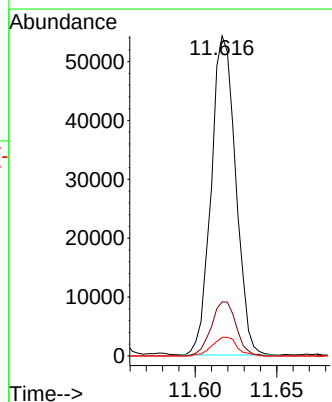
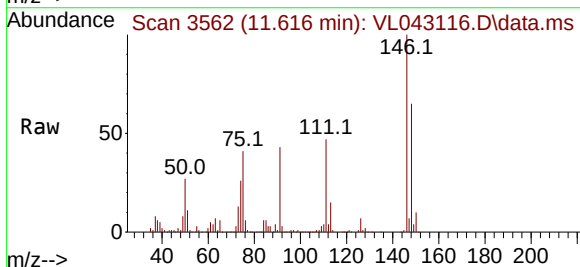
Manual Integrations
APPROVED

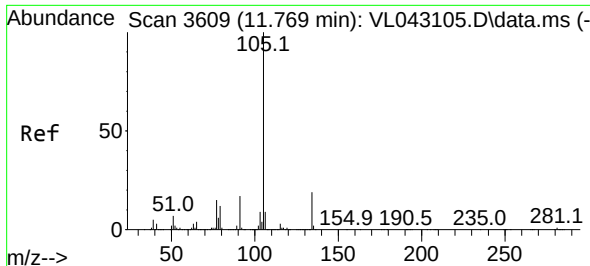
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025



#66
Benzyl Chloride
Concen: 8.691 ppbv
RT: 11.616 min Scan# 3562
Delta R.T. -0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

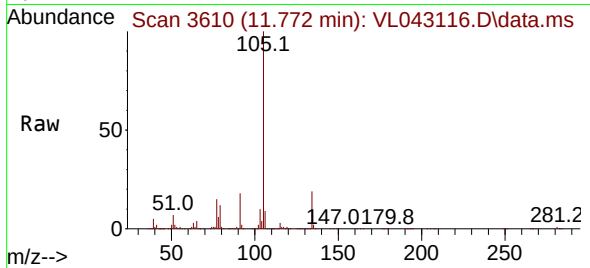
Tgt Ion: 91 Resp: 56595
Ion Ratio Lower Upper
91 100
126 17.4 14.6 22.0
128 6.0 4.6 6.8





#67
 sec-Butylbenzene
 Concen: 8.836 ppbv
 RT: 11.772 min Scan# 3610
 Delta R.T. 0.003 min
 Lab File: VL043116.D
 Acq: 15 Oct 2025 10:15

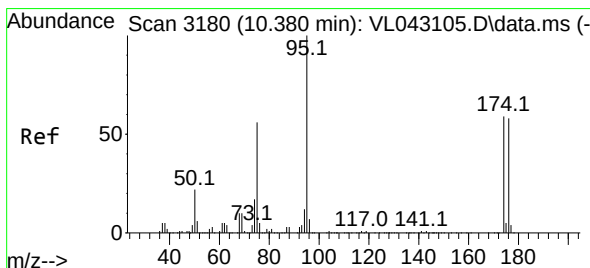
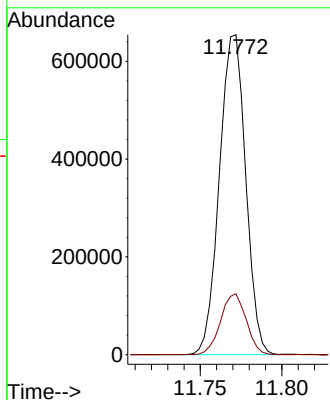
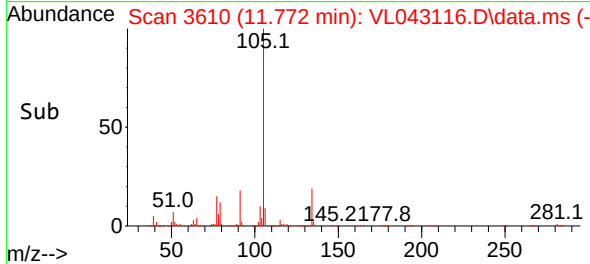
Instrument :
 MSVOA_L
 ClientSampleId :
 VL1015ABS01



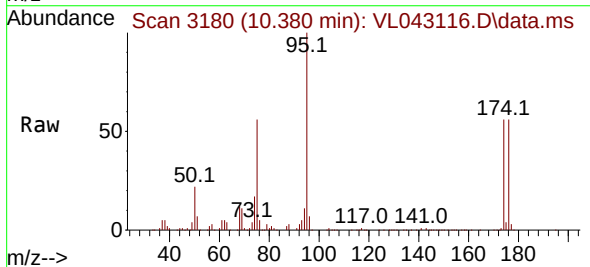
Tgt Ion:105 Resp: 73368
 Ion Ratio Lower Upper
 105 100
 134 18.6 15.5 23.3

Manual Integrations
 APPROVED

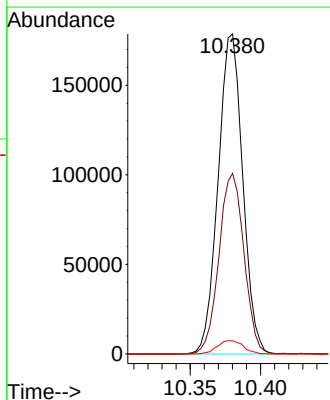
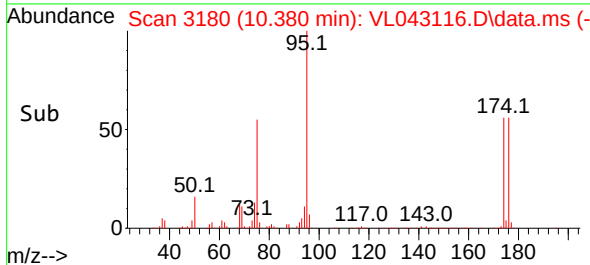
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/17/2025

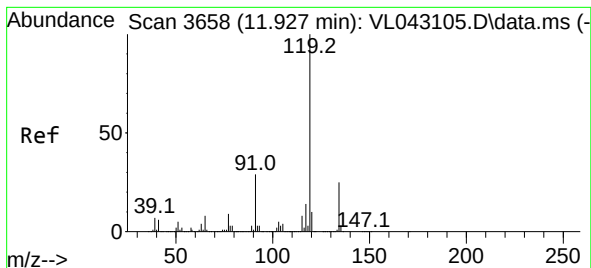


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.302 ppbv
 RT: 10.380 min Scan# 3180
 Delta R.T. -0.000 min
 Lab File: VL043116.D
 Acq: 15 Oct 2025 10:15



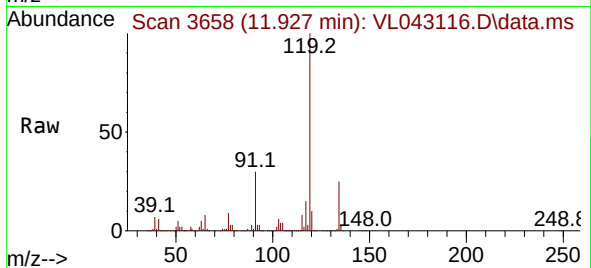
Tgt Ion: 95 Resp: 217166
 Ion Ratio Lower Upper
 95 100
 174 57.4 48.3 72.5
 175 4.4 3.8 5.8





#69
p-Isopropyltoluene
Concen: 8.752 ppbv
RT: 11.927 min Scan# 3658
Delta R.T. -0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

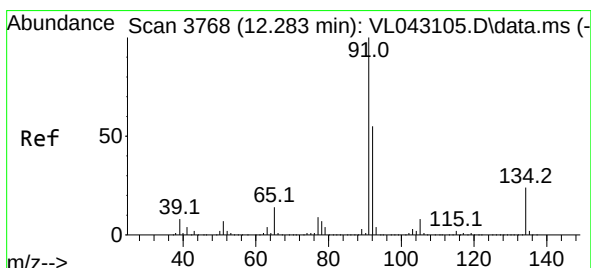
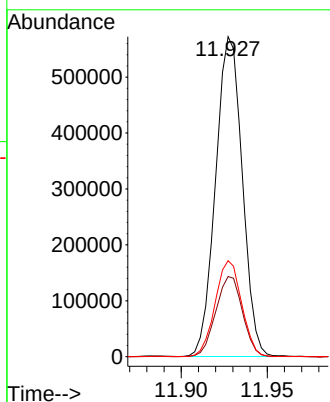
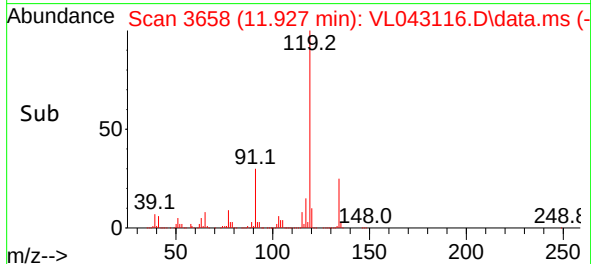
Instrument :
MSVOA_L
ClientSampleId :
VL1015ABS01



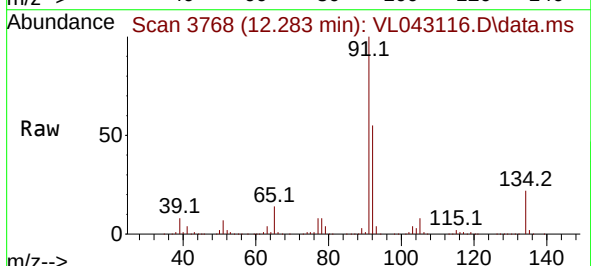
Tgt Ion: 119 Resp: 617578
Ion Ratio Lower Upper
119 100
134 25.2 20.3 30.5
91 30.0 22.6 33.8

Manual Integrations
APPROVED

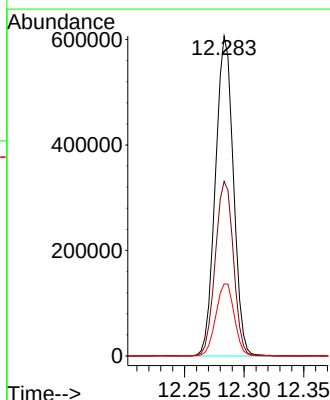
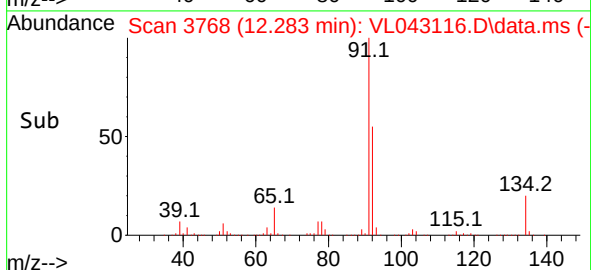
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025

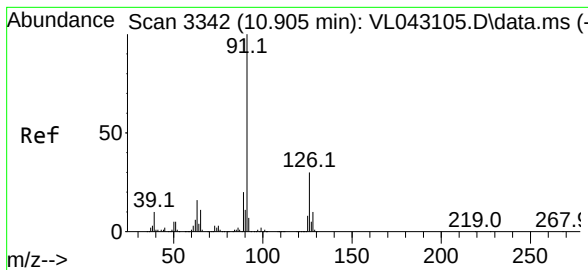


#70
n-Butylbenzene
Concen: 9.133 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. -0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15



Tgt Ion: 91 Resp: 635054
Ion Ratio Lower Upper
91 100
92 55.1 44.5 66.7
134 23.2 19.3 28.9





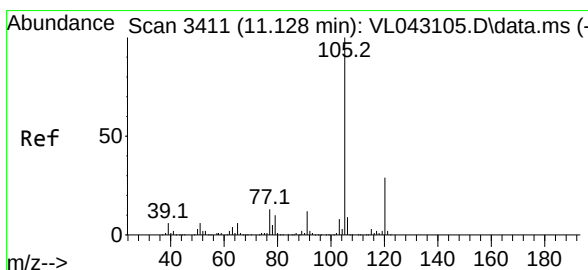
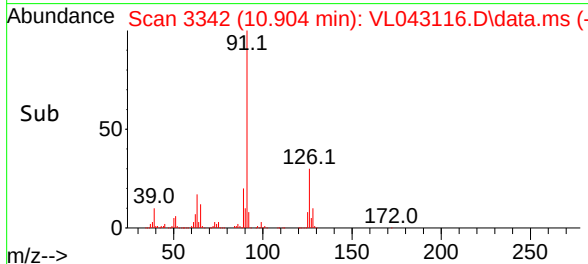
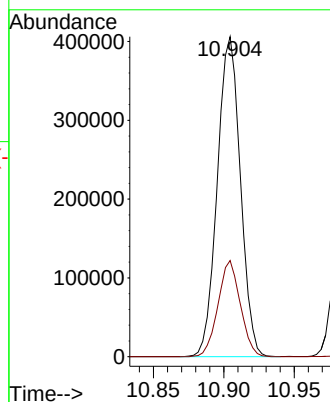
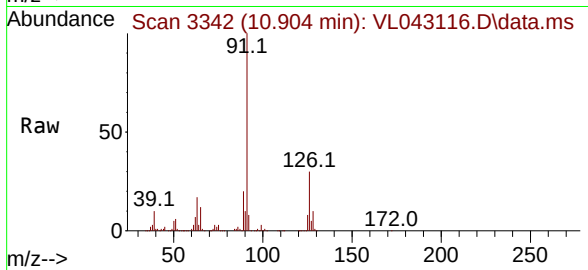
#71
2-Chlorotoluene
Concen: 9.185 ppbv
RT: 10.904 min Scan# 311
Delta R.T. -0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

Instrument : MSVOA_L
ClientSampleId : VL1015ABS01

Tgt Ion: 91 Resp: 464145
Ion Ratio Lower Upper
91 100
126 29.0 12.0 48.0

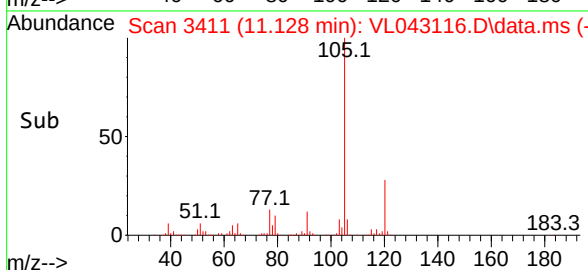
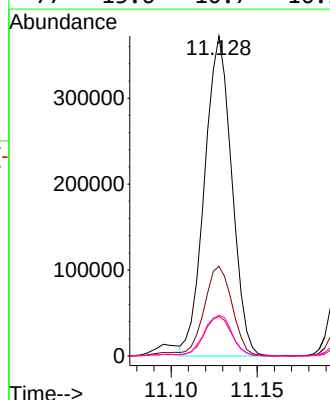
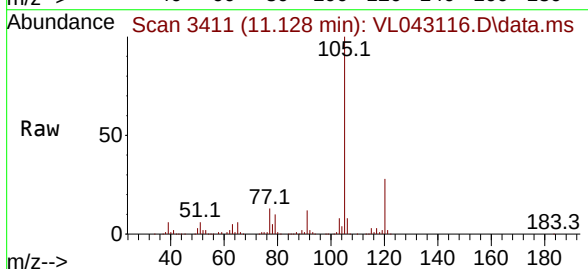
Manual Integrations
APPROVED

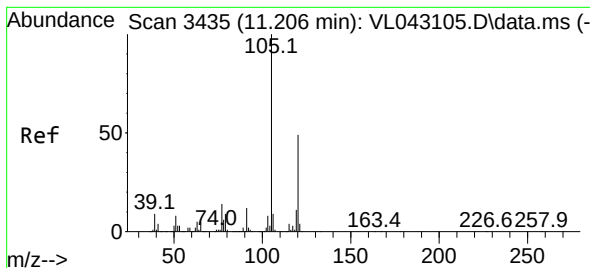
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025



#72
4-Ethyltoluene
Concen: 9.067 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. -0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

Tgt Ion:105 Resp: 408784
Ion Ratio Lower Upper
105 100
120 29.7 24.2 36.4
91 13.1 10.0 15.0
77 13.6 10.7 16.1





#73

1,3,5-Trimethylbenzene

Concen: 9.245 ppbv

RT: 11.205 min Scan# 3435

Delta R.T. -0.000 min

Lab File: VL043116.D

Acq: 15 Oct 2025 10:15

Instrument :

MSVOA_L

ClientSampleId :

VL1015ABS01

Tgt Ion:105 Resp: 34375

Ion Ratio Lower Upper

105 100

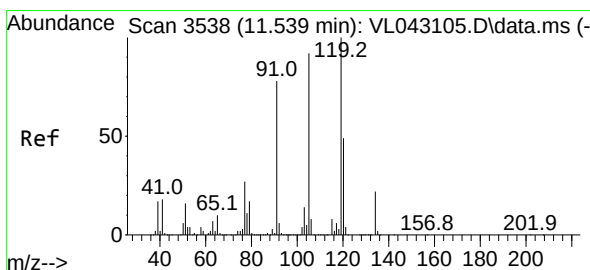
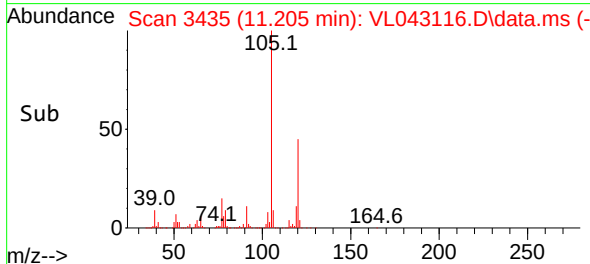
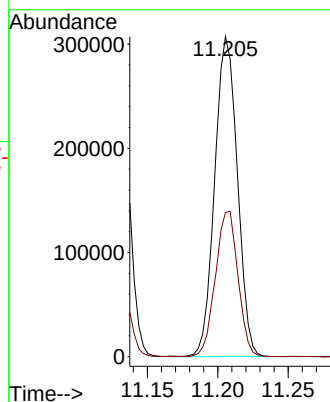
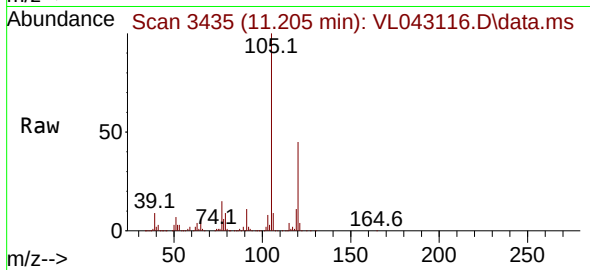
120 45.0 39.0 58.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/17/2025



#74

1,2,4-Trimethylbenzene

Concen: 8.764 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. -0.000 min

Lab File: VL043116.D

Acq: 15 Oct 2025 10:15

Tgt Ion:105 Resp: 364645

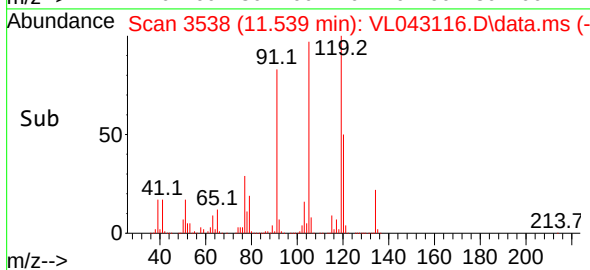
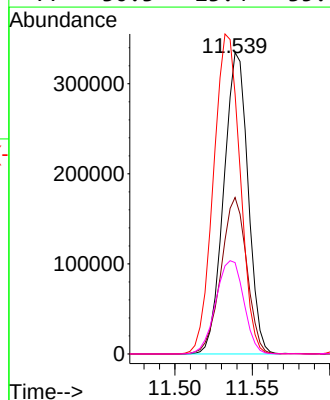
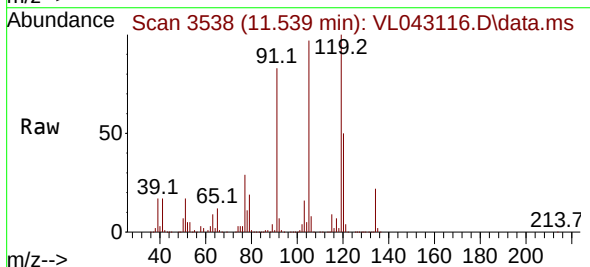
Ion Ratio Lower Upper

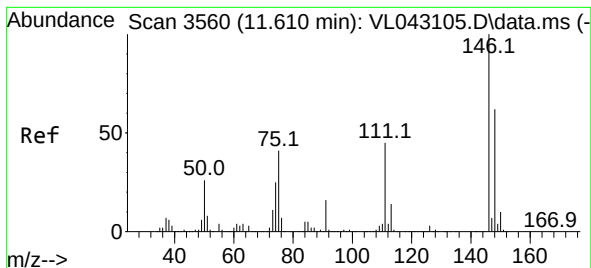
105 100

120 51.9 42.8 64.2

91 86.2 68.3 102.5

77 30.3 23.4 35.0





#75

1,3-Dichlorobenzene

Concen: 8.833 ppbv

RT: 11.610 min Scan# 3560

Delta R.T. -0.000 min

Lab File: VL043116.D

Acq: 15 Oct 2025 10:15

Instrument :

MSVOA_L

ClientSampleId :

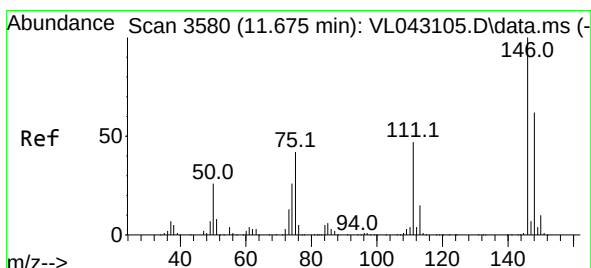
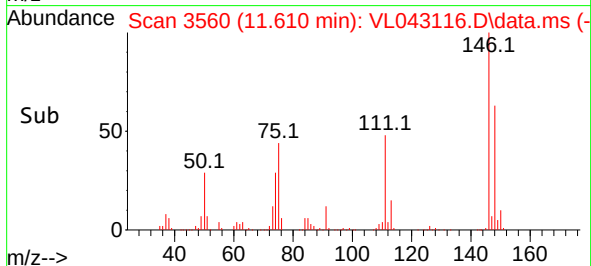
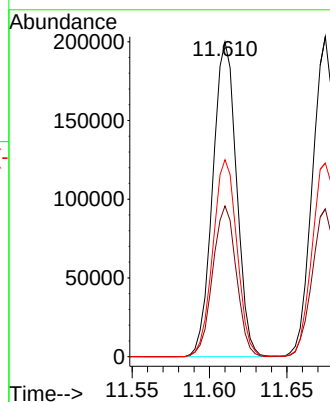
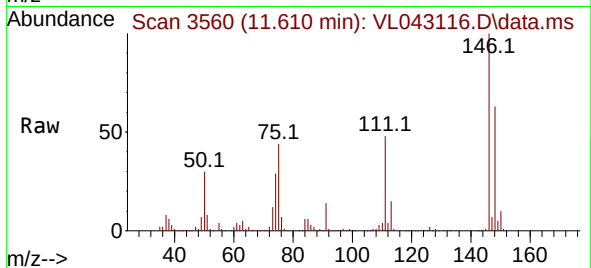
VL1015ABS01

Tgt Ion:146 Resp: 213179
 Ion Ratio Lower Upper
 146 100
 111 47.6 23.3 69.9
 148 63.2 31.6 95.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/17/2025



#76

1,4-Dichlorobenzene

Concen: 8.843 ppbv

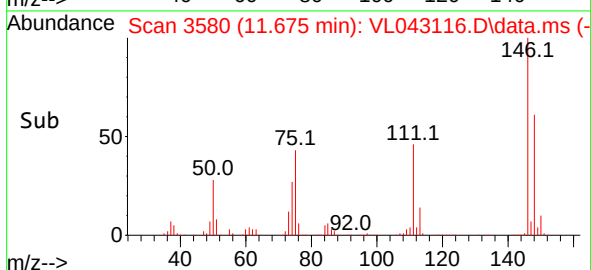
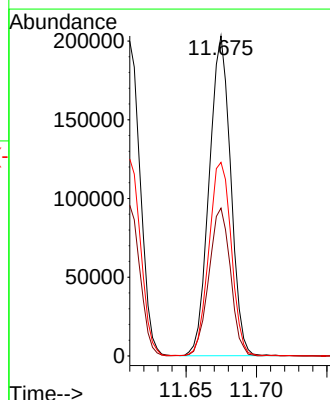
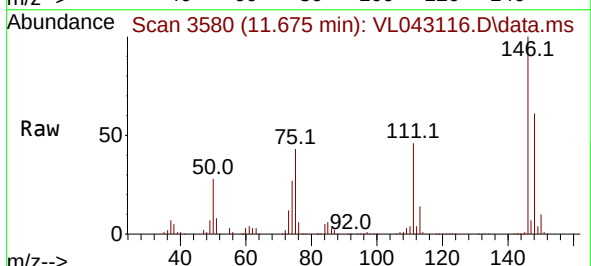
RT: 11.675 min Scan# 3580

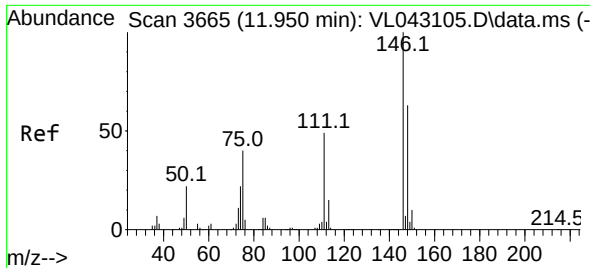
Delta R.T. -0.000 min

Lab File: VL043116.D

Acq: 15 Oct 2025 10:15

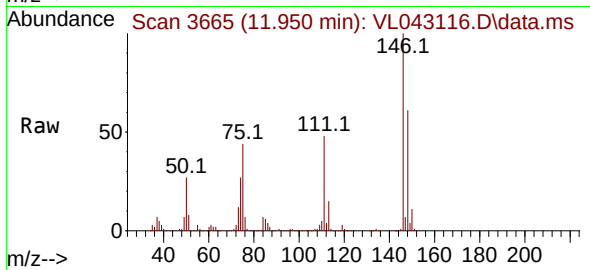
Tgt Ion:146 Resp: 215187
 Ion Ratio Lower Upper
 146 100
 111 46.7 22.4 67.0
 148 63.6 31.6 94.7





#77
1,2-Dichlorobenzene
Concen: 8.581 ppbv
RT: 11.950 min Scan# 3665
Delta R.T. -0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

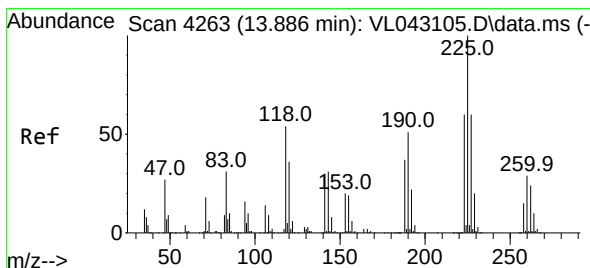
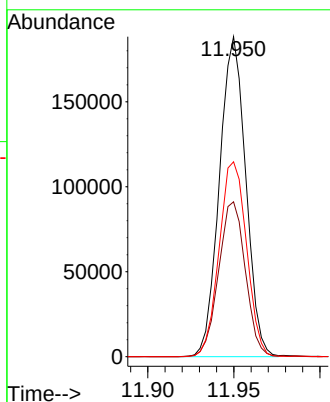
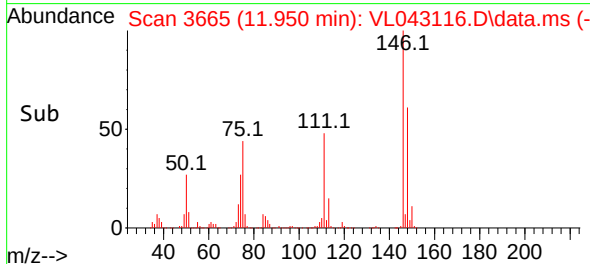
Instrument :
MSVOA_L
ClientSampleId :
VL1015ABS01



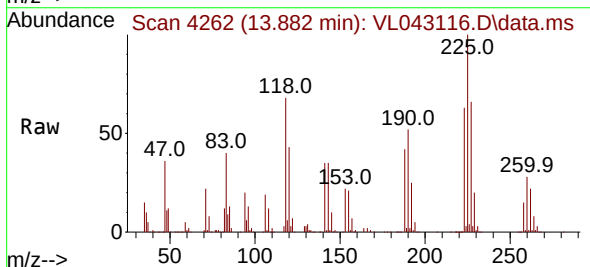
Tgt Ion:146 Resp: 200329
Ion Ratio Lower Upper
146 100
111 49.3 24.0 72.0
148 63.5 31.1 93.3

Manual Integrations
APPROVED

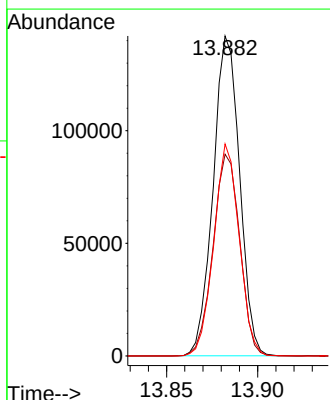
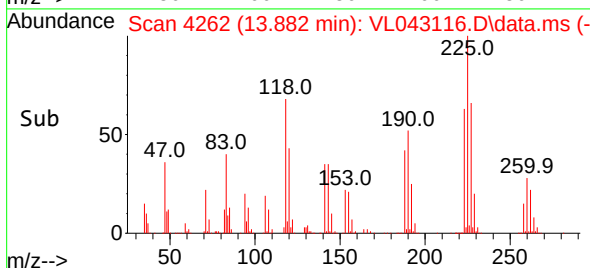
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025

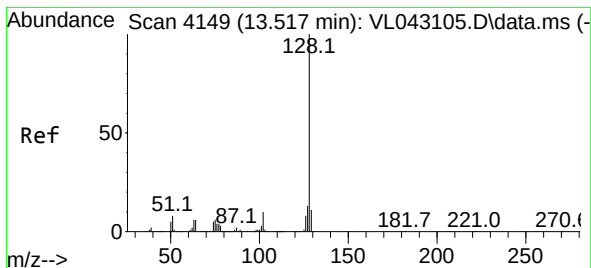


#78
Hexachloro-1,3-Butadiene
Concen: 7.945 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. -0.003 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15



Tgt Ion:225 Resp: 143609
Ion Ratio Lower Upper
225 100
223 63.7 50.2 75.4
227 63.6 49.6 74.4





#79

Naphthalene

Concen: 9.429 ppbv

RT: 13.516 min Scan# 4149

Delta R.T. -0.000 min

Lab File: VL043116.D

Acq: 15 Oct 2025 10:15

Instrument :

MSVOA_L

ClientSampleId :

VL1015ABS01

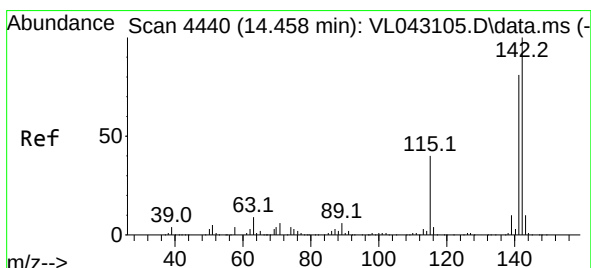
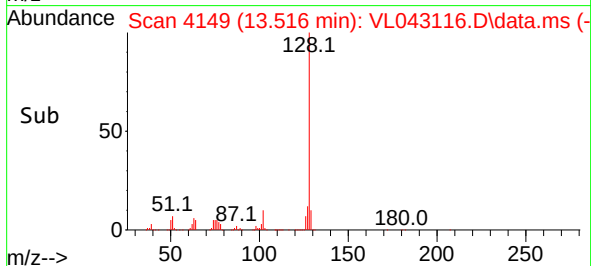
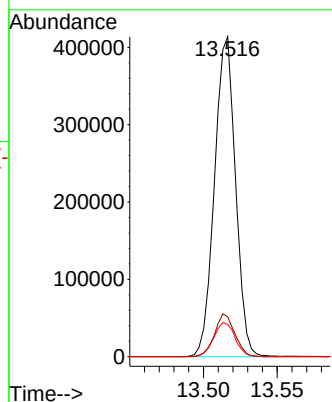
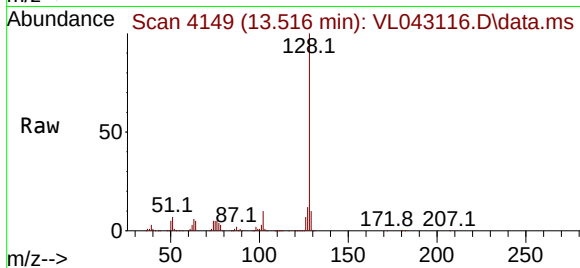
Tgt Ion:128 Resp: 41009

Ion	Ratio	Lower	Upper
128	100		
127	12.5	10.5	15.7
129	10.0	9.1	13.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025



#80

Naphthalene,2-methyl-

Concen: 10.387 ppbv

RT: 14.458 min Scan# 4440

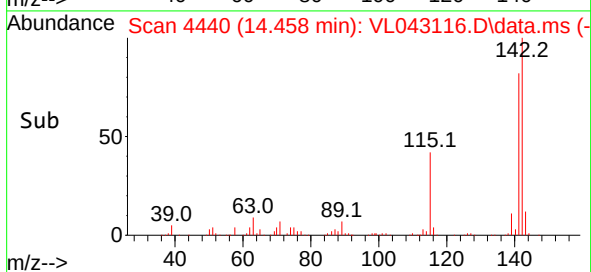
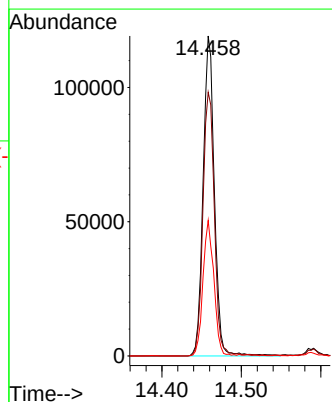
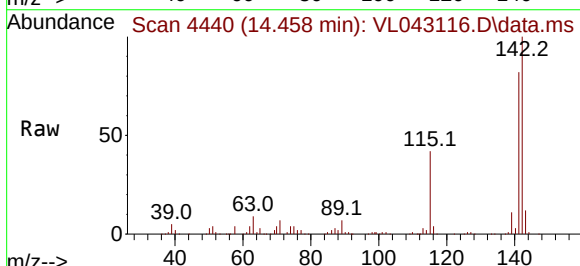
Delta R.T. -0.000 min

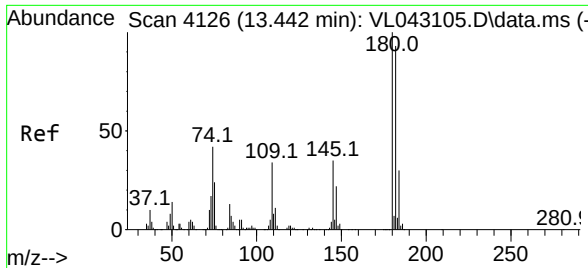
Lab File: VL043116.D

Acq: 15 Oct 2025 10:15

Tgt Ion:142 Resp: 117693

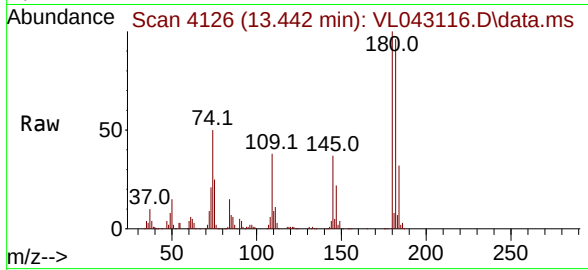
Ion	Ratio	Lower	Upper
142	100		
141	84.9	64.6	97.0
115	42.0	30.2	45.4





#81
 1,2,4-Trichlorobenzene
 Concen: 8.987 ppbv
 RT: 13.442 min Scan# 4126
 Delta R.T. -0.000 min
 Lab File: VL043116.D
 Acq: 15 Oct 2025 10:15

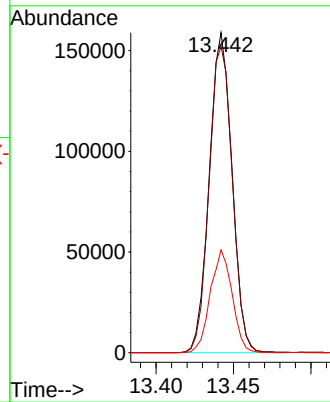
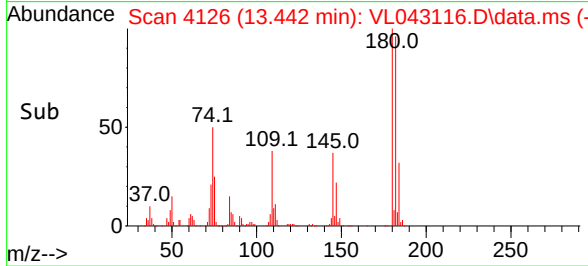
Instrument :
 MSVOA_L
 ClientSampleId :
 VL1015ABS01



Tgt Ion:180	Resp:	162229
Ion Ratio	Lower	Upper
180	100	
182	98.0	75.5 113.3
184	30.9	23.9 35.9

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/17/2025



Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ AIR PT	Date Received:	
Client Sample ID:	VL1015ABSD01	SDG No.:	Q3247
Lab Sample ID:	VL1015ABSD01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400 mL		

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
TARGETS									
75-00-3	Chloroethane	9.70	25.6		1	0.40	1.32	10/15/25 15:57	VL101525
142-82-5	Heptane	8.20	33.6		1	0.70	2.05	10/15/25 15:57	VL101525
75-27-4	Bromodichloromethane	10.6	71.0		1	0.40	3.35	10/15/25 15:57	VL101525
179601-23-1	m/p-Xylene	19.6	85.1		1	1.78	4.34	10/15/25 15:57	VL101525
SURROGATES									
460-00-4	1-Bromo-4-Fluorobenzene	10.5				65 - 135	105% SPK: 10		
INTERNAL STANDARDS									
		Area Count							
74-97-5	Bromochloromethane	91600							
540-36-3	1,4-Difluorobenzene	294000							
3114-55-4	Chlorobenzene-d5	260000							

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101525\
 Data File : VL043122.D
 Acq On : 15 Oct 2025 15:57
 Operator : SY/MD
 Sample : VL1015ABSD01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1015ABSD01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/17/2025

Quant Time: Oct 16 01:19:11 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

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

QLast Update : Wed Oct 15 02:12:58 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	91615	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	294311	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	260330	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.383 95 212144 10.484 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 104.800%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	146031	11.212	ppbv	100
3) Chlorodifluoromethane	1.479	51	132400	9.396	ppbv	93
4) Chloromethane	1.538	50	49080	9.512	ppbv	98
5) Vinyl Chloride	1.583	62	50236	9.926	ppbv	97
6) Bromomethane	1.670	94	29349	10.576	ppbv	99
7) Chloroethane	1.709	64	19982	9.657	ppbv	99
8) Dichlorotetrafluoroethane	1.557	85	112911	10.726	ppbv	97
9) Propene	1.486	41	48992	7.839	ppbv	98
10) Heptane	4.991	43	146679	8.152	ppbv	97
11) Trichlorofluoromethane	1.881	101	153762	12.069	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.146	101	115644	11.275	ppbv	96
13) Ethanol	1.725	45	17793	7.696	ppbv	94
14) Bromoethene	1.787	108	41213	10.816	ppbv	99
15) Acetone	1.839	43	118839	9.624	ppbv	97
16) 1,3-Butadiene	1.612	39	55311	9.399	ppbv	98
17) tert-Butyl alcohol	2.043	59	174619	10.302	ppbv	98
18) 1,1-Dichloroethene	2.039	96	51012	11.408	ppbv	87
19) Isopropyl Alcohol	1.887	45	73121	9.508	ppbv	99
20) Methylene Chloride	2.065	84	44858	9.190	ppbv	89
21) Allyl Chloride	2.101	41	90557	9.952	ppbv	91
22) trans-1,2-Dichloroethene	2.347	96	56333	10.539	ppbv	97
23) Vinyl Acetate	2.467	43	177669	9.822	ppbv	98
24) 1,1-Dichloroethane	2.415	63	113663	11.006	ppbv	99
25) Ethyl Acetate	2.839	43	271918	8.880	ppbv	99
26) Hexane	2.832	57	126655	8.976	ppbv	97
27) Carbon Disulfide	2.156	76	137853	10.663	ppbv	99
28) Methyl tert-Butyl Ether	2.444	73	69446	10.818	ppbv	96
29) Chloroform	2.855	83	214588	10.496	ppbv	100
30) Cyclohexane	3.865	84	112065	9.100	ppbv	92
31) cis-1,2-Dichloroethene	2.725	61	137648	10.216	ppbv	99
32) 1,1,1-Trichloroethane	3.376	97	226398	10.634	ppbv	99
34) 2-Butanone	2.560	43	180212	9.109	ppbv	96
35) Carbon Tetrachloride	3.771	117	228771	10.811	ppbv	96
36) Benzene	3.664	78	261070	9.418	ppbv	96
37) 1,2-Dichloroethane	3.224	62	171136	10.717	ppbv #	95
38) Trichloroethene	4.557	130	102021	8.813	ppbv	94
39) 1,2-Dichloropropane	4.321	63	91417	9.021	ppbv	94
40) 1,4-Dioxane	4.590	88	41071	9.057	ppbv #	96
41) Tetrahydrofuran	3.056	42	89968	8.131	ppbv	92
42) Bromodichloromethane	4.499	83	233460	10.563	ppbv	99
43) Methyl Methacrylate	4.888	69	127541	9.059	ppbv	98
44) 2,2,4-Trimethylpentane	4.651	57	414817	8.870	ppbv	98
45) t-1,3-Dichloropropene	6.425	75	138082	9.773	ppbv	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101525\
 Data File : VL043122.D
 Acq On : 15 Oct 2025 15:57
 Operator : SY/MD
 Sample : VL1015ABSD01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1015ABSD01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/17/2025

Quant Time: Oct 16 01:19:11 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

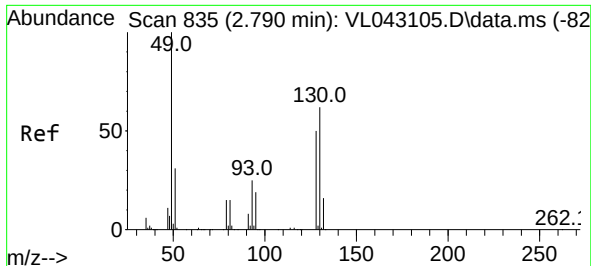
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Wed Oct 15 02:12:58 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	158488	9.390	ppbv	93
47) 1,1,2-Trichloroethane	6.593	97	102387	9.356	ppbv	93
48) Dibromochloromethane	7.393	129	183501	10.029	ppbv	98
49) Bromoform	9.490	173	150248	10.102	ppbv	100
50) 4-Methyl-2-Pentanone	5.755	43	233019	8.535	ppbv	98
51) 2-Hexanone	7.444	43	182931	8.933	ppbv #	100
52) Tetrachloroethene	8.234	164	88818	8.885	ppbv	93
53) Toluene	6.943	91	298271	9.066	ppbv	99
54) 1,2-Dibromoethane	7.661	107	162018	9.452	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.933	131	165501	10.085	ppbv	96
57) Chlorobenzene	8.930	112	225547	9.261	ppbv	95
58) Ethyl Benzene	9.364	91	432119	9.672	ppbv	96
59) m/p-Xylene	9.558	91	698130m	19.591	ppbv	
60) o-Xylene	9.972	91	339885	9.657	ppbv	97
61) Styrene	9.875	104	149479	9.408	ppbv	97
62) Isopropylbenzene	10.545	105	618625	9.727	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.969	83	211262	8.964	ppbv	97
64) n-propylbenzene	10.995	120	156132	9.273	ppbv	91
65) tert-Butylbenzene	11.539	119	516711	9.200	ppbv	94
66) Benzyl Chloride	11.620	91	54290	8.686	ppbv	98
67) sec-Butylbenzene	11.772	105	747469	9.378	ppbv	98
69) p-Isopropyltoluene	11.930	119	628190	9.275	ppbv	97
70) n-Butylbenzene	12.286	91	656970	9.843	ppbv	98
71) 2-Chlorotoluene	10.908	91	475356	9.800	ppbv	97
72) 4-Ethyltoluene	11.131	105	421655	9.743	ppbv	97
73) 1,3,5-Trimethylbenzene	11.209	105	350402	9.818	ppbv	95
74) 1,2,4-Trimethylbenzene	11.542	105	376592	9.429	ppbv	95
75) 1,3-Dichlorobenzene	11.613	146	220504	9.519	ppbv	99
76) 1,4-Dichlorobenzene	11.678	146	220451	9.438	ppbv	97
77) 1,2-Dichlorobenzene	11.953	146	205757	9.182	ppbv	98
78) Hexachloro-1,3-Butadiene	13.889	225	148058	8.533	ppbv	98
79) Naphthalene	13.520	128	422818	10.128	ppbv	99
80) Naphthalene,2-methyl-	14.461	142	120171	11.049	ppbv	97
81) 1,2,4-Trichlorobenzene	13.445	180	168366	9.717	ppbv	99

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



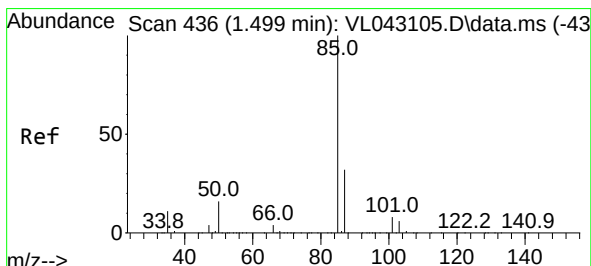
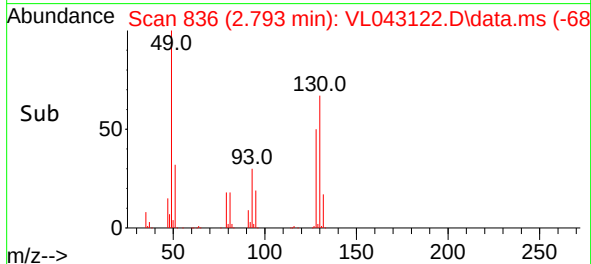
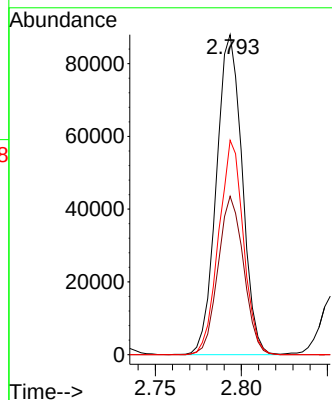
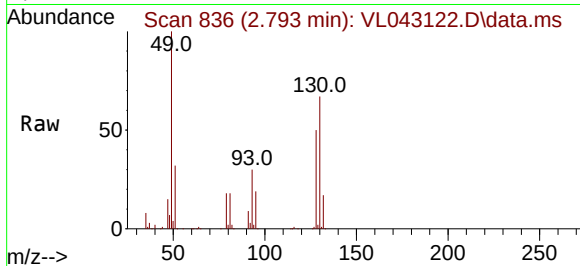
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

Instrument :
MSVOA_L
ClientSampleId :
VL1015ABSD01

Tgt Ion: 49 Resp: 9161
Ion Ratio Lower Upper
49 100
128 49.1 24.4 73.4
130 64.2 31.0 93.0

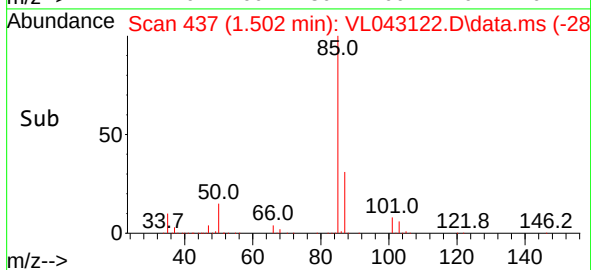
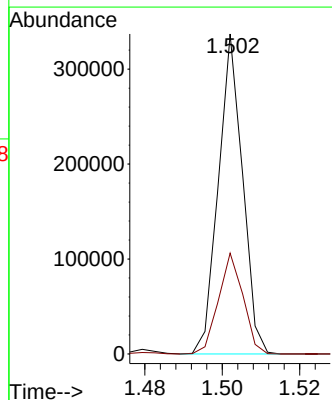
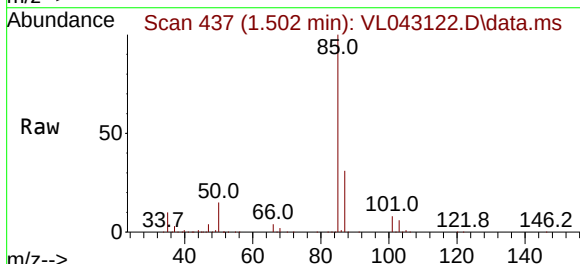
Manual Integrations
APPROVED

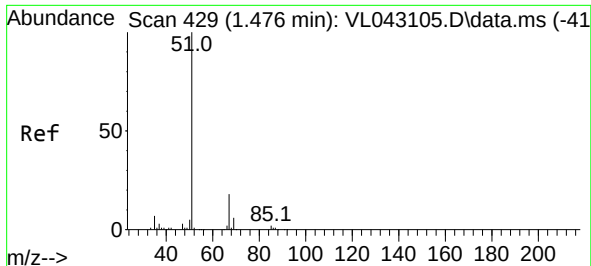
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025



#2
Dichlorodifluoromethane
Concen: 11.212 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

Tgt Ion: 85 Resp: 146031
Ion Ratio Lower Upper
85 100
87 31.5 25.3 37.9





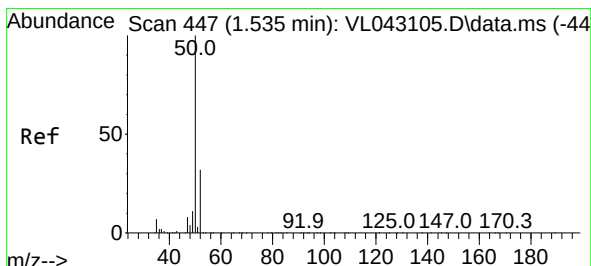
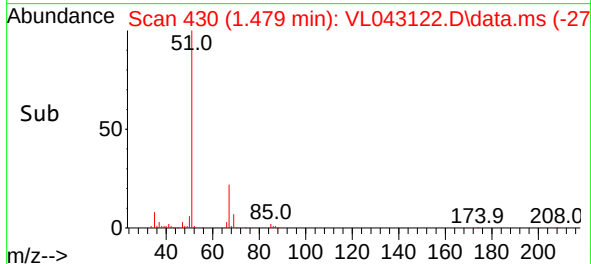
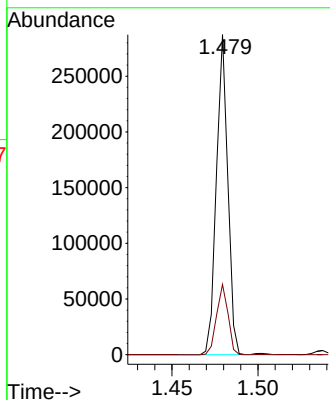
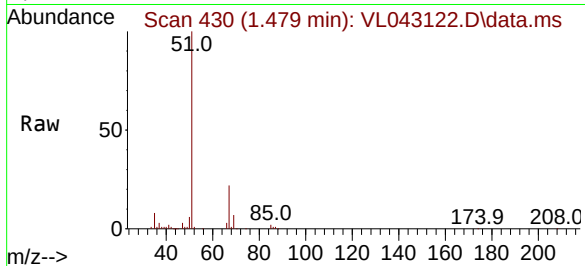
#3
Chlorodifluoromethane
Concen: 9.396 ppbv
RT: 1.479 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

Instrument :
MSVOA_L
ClientSampleId :
VL1015ABSD01

Tgt Ion: 51 Resp: 132400
Ion Ratio Lower Upper
51 100
67 22.2 15.1 22.7

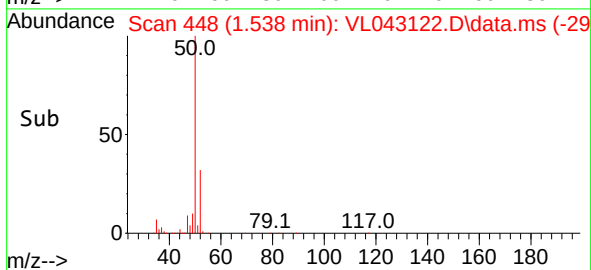
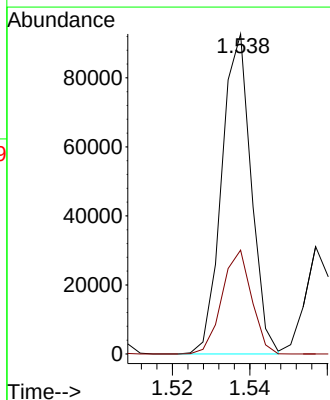
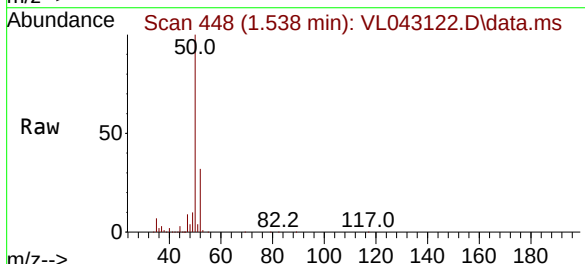
Manual Integrations
APPROVED

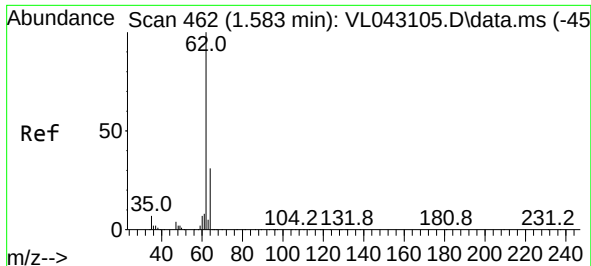
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025



#4
Chloromethane
Concen: 9.512 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.003 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

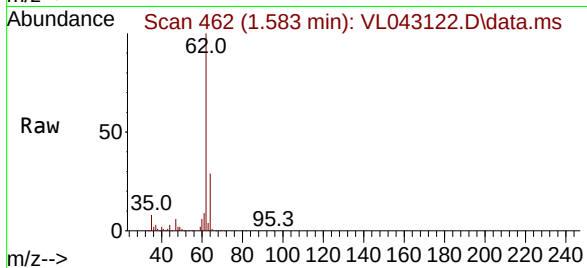
Tgt Ion: 50 Resp: 49080
Ion Ratio Lower Upper
50 100
52 32.5 25.2 37.8





#5
 Vinyl Chloride
 Concen: 9.926 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. -0.000 min
 Lab File: VL043122.D
 Acq: 15 Oct 2025 15:57

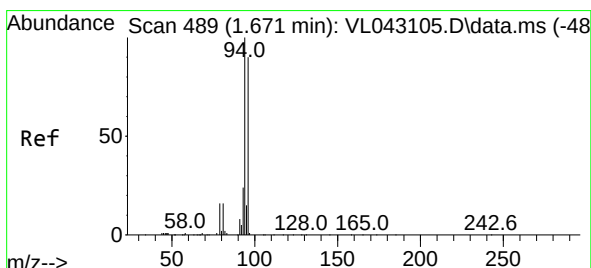
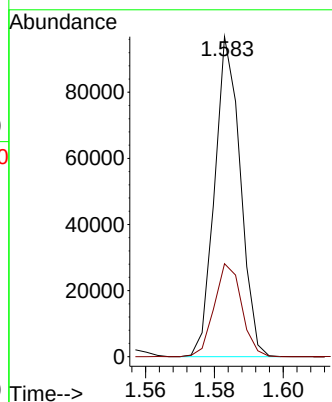
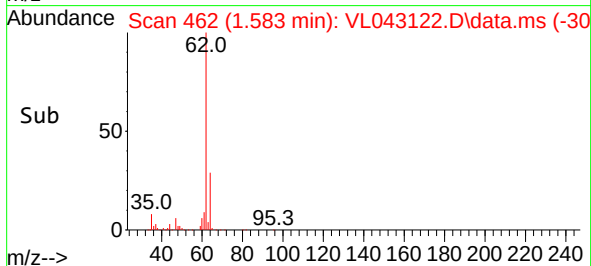
Instrument :
 MSVOA_L
 ClientSampleId :
 VL1015ABSD01



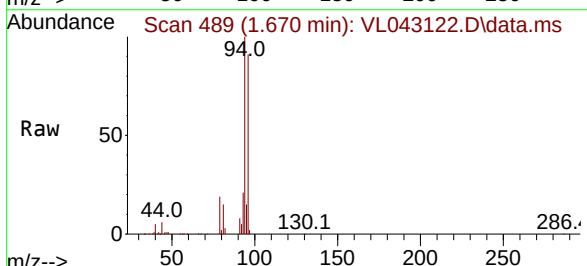
Tgt Ion: 62 Resp: 50230
 Ion Ratio Lower Upper
 62 100
 64 29.1 24.6 36.8

Manual Integrations
 APPROVED

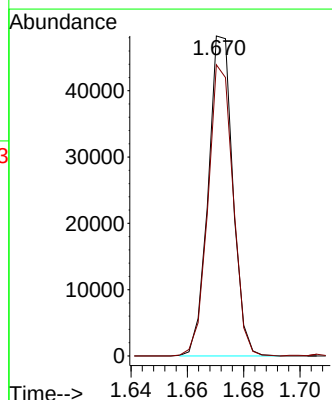
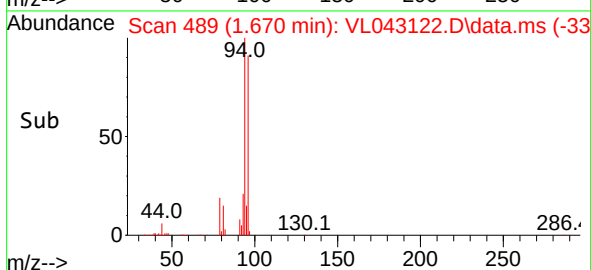
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/17/2025

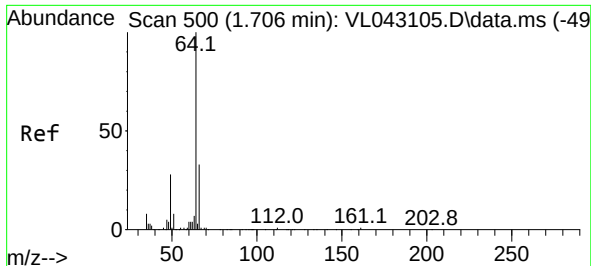


#6
 Bromomethane
 Concen: 10.576 ppbv
 RT: 1.670 min Scan# 489
 Delta R.T. -0.000 min
 Lab File: VL043122.D
 Acq: 15 Oct 2025 15:57



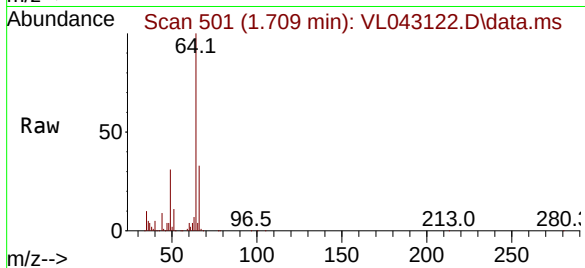
Tgt Ion: 94 Resp: 29349
 Ion Ratio Lower Upper
 94 100
 96 91.0 72.2 108.4





#7
Chloroethane
Concen: 9.657 ppbv
RT: 1.709 min Scan# 500
Delta R.T. 0.003 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

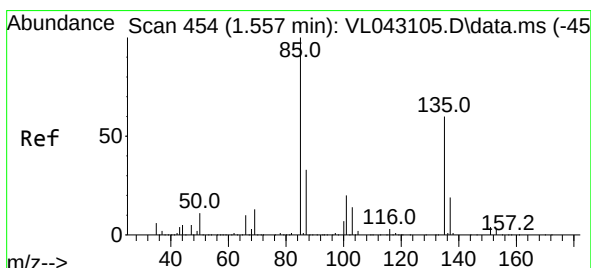
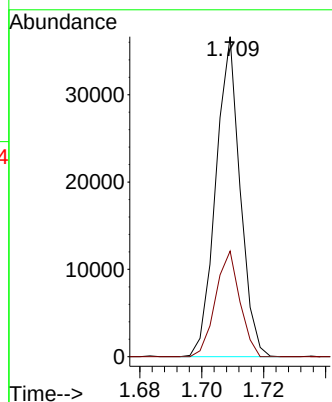
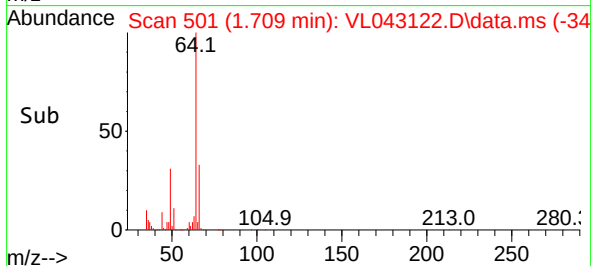
Instrument :
MSVOA_L
ClientSampleId :
VL1015ABSD01



Tgt Ion: 64 Resp: 1998
Ion Ratio Lower Upper
64 100
66 33.0 26.0 39.0

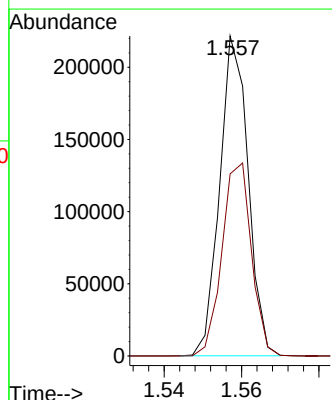
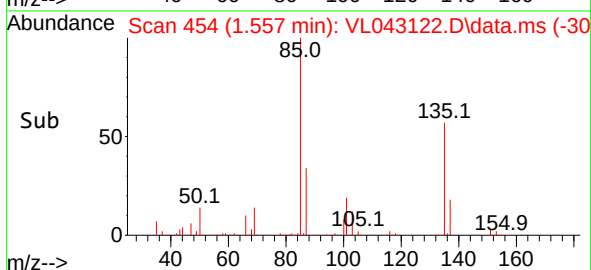
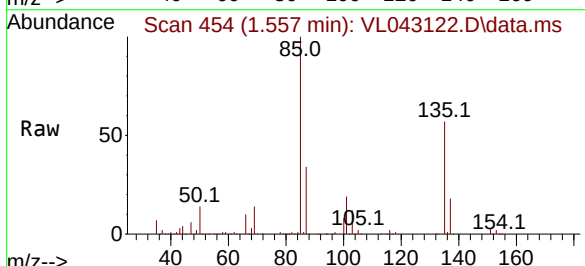
Manual Integrations
APPROVED

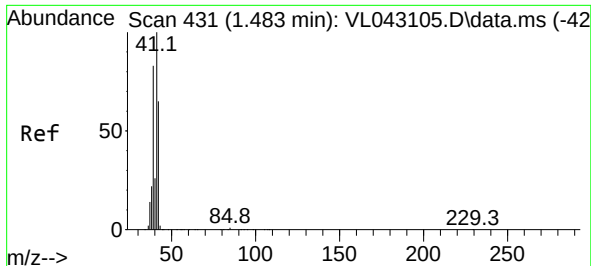
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025



#8
Dichlorotetrafluoroethane
Concen: 10.726 ppbv
RT: 1.557 min Scan# 454
Delta R.T. -0.000 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

Tgt Ion: 85 Resp: 112911
Ion Ratio Lower Upper
85 100
135 62.8 48.2 72.4





#9

Propene

Concen: 7.839 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL043122.D

Acq: 15 Oct 2025 15:57

Instrument :

MSVOA_L

ClientSampleId :

VL1015ABSD01

Tgt Ion: 41 Resp: 48992

Ion Ratio Lower Upper

41 100

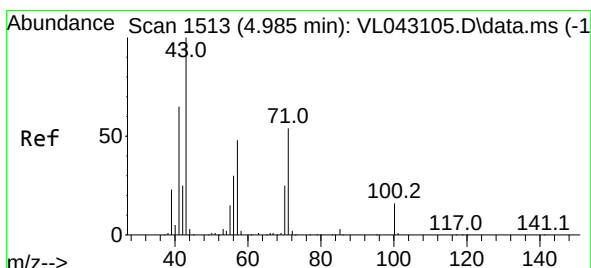
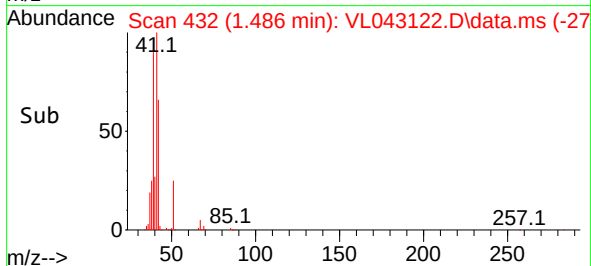
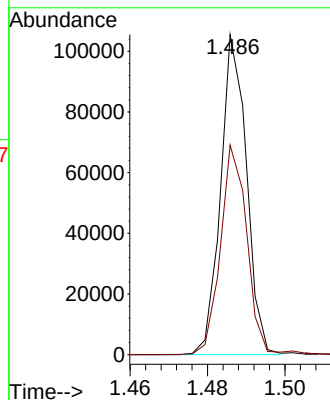
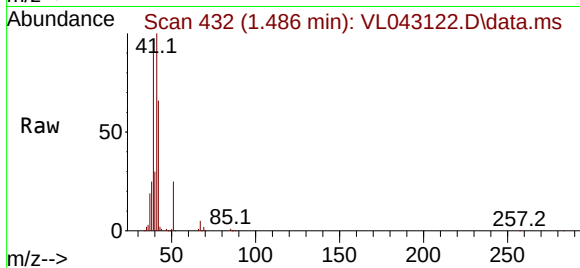
42 67.6 55.1 82.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/17/2025



#10

Heptane

Concen: 8.152 ppbv

RT: 4.991 min Scan# 1515

Delta R.T. 0.006 min

Lab File: VL043122.D

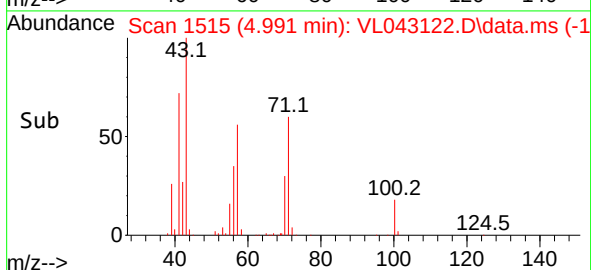
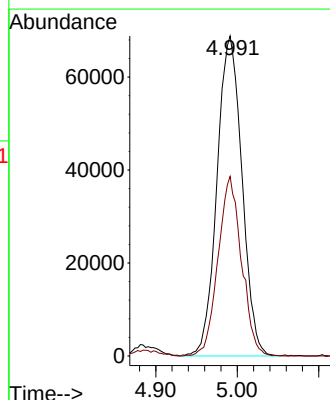
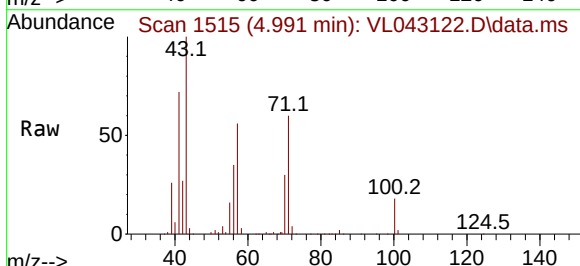
Acq: 15 Oct 2025 15:57

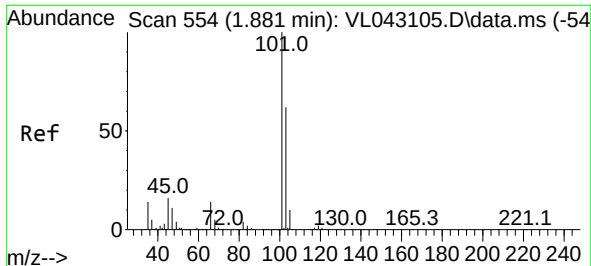
Tgt Ion: 43 Resp: 146679

Ion Ratio Lower Upper

43 100

57 52.7 40.8 61.2





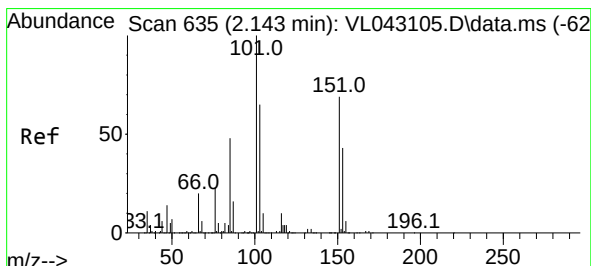
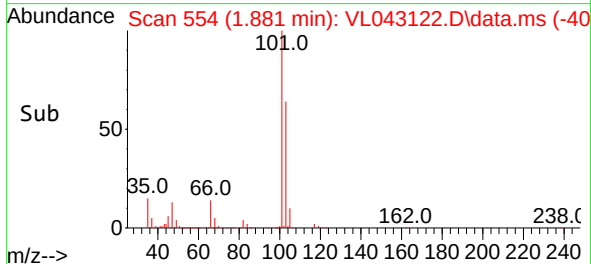
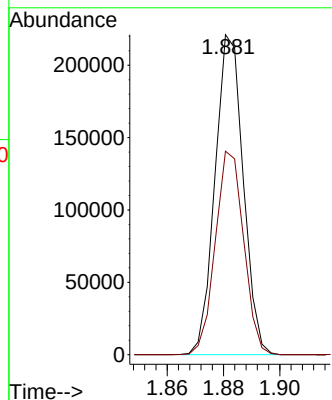
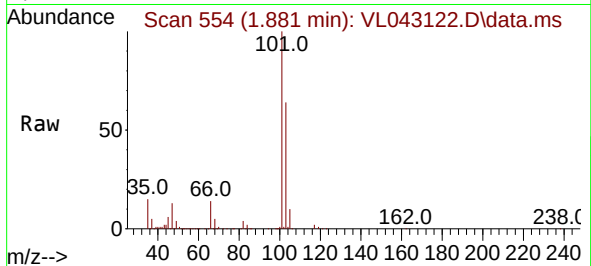
#11
Trichlorofluoromethane
Concen: 12.069 ppbv
RT: 1.881 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

Instrument :
MSVOA_L
ClientSampleId :
VL1015ABSD01

Tgt Ion:101 Resp: 153762
Ion Ratio Lower Upper
101 100
103 63.6 49.3 73.9

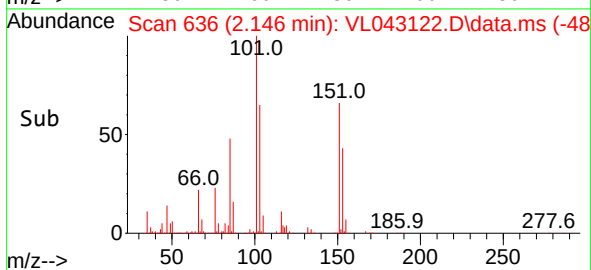
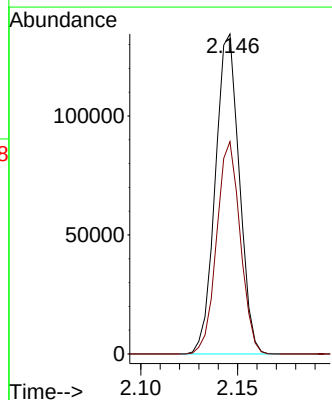
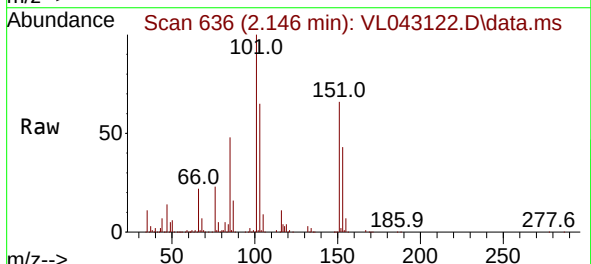
Manual Integrations
APPROVED

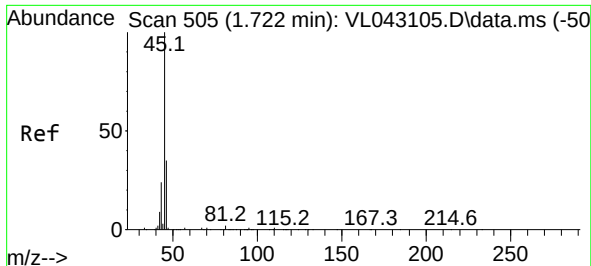
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025



#12
1,1,2-Trichlorotrifluoroethane
Concen: 11.275 ppbv
RT: 2.146 min Scan# 636
Delta R.T. 0.003 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

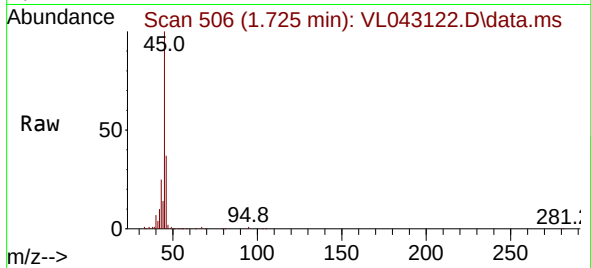
Tgt Ion:101 Resp: 115644
Ion Ratio Lower Upper
101 100
151 65.3 54.7 82.1





#13
Ethanol
Concen: 7.696 ppbv
RT: 1.725 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

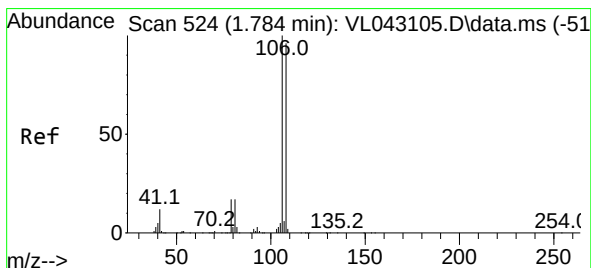
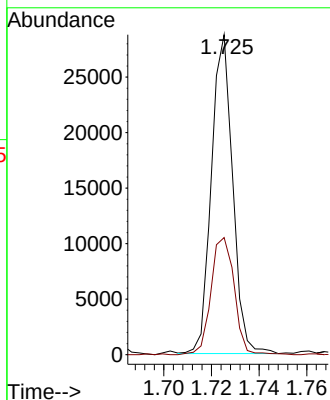
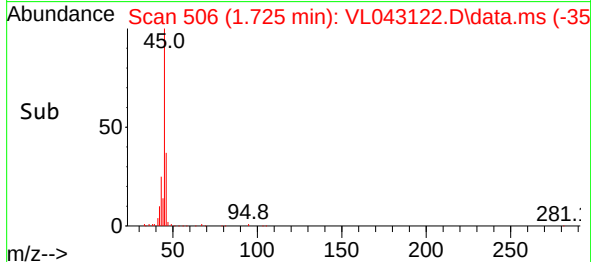
Instrument :
MSVOA_L
ClientSampleId :
VL1015ABSD01



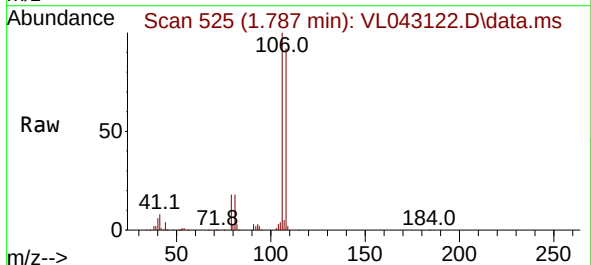
Tgt Ion: 45 Resp: 17793
Ion Ratio Lower Upper
45 100
46 40.5 14.7 58.9

Manual Integrations
APPROVED

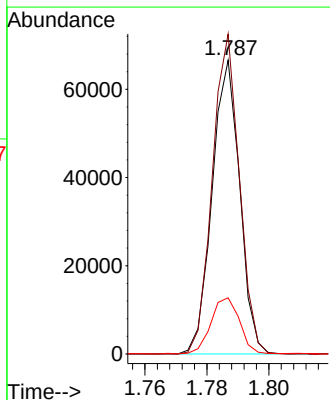
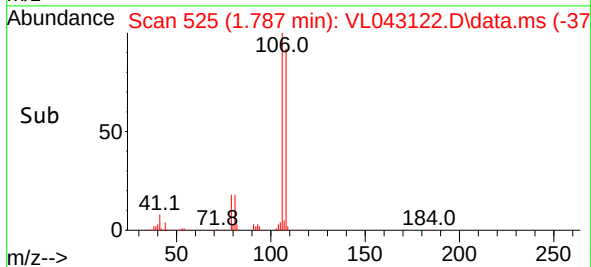
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025

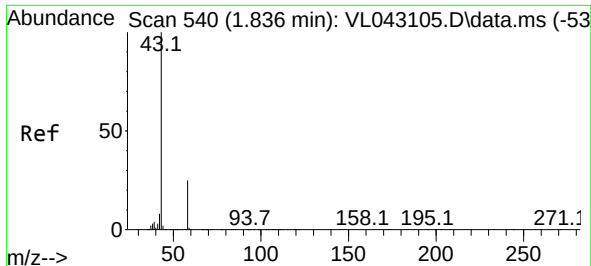


#14
Bromoethene
Concen: 10.816 ppbv
RT: 1.787 min Scan# 525
Delta R.T. 0.003 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57



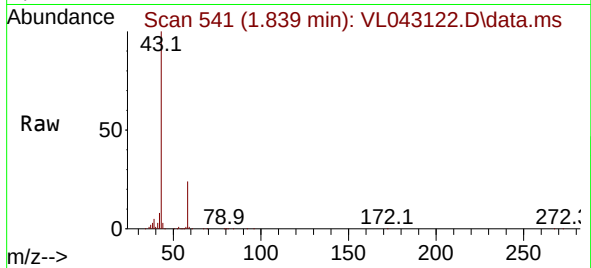
Tgt Ion:108 Resp: 41213
Ion Ratio Lower Upper
108 100
106 106.4 84.4 126.6
79 20.1 15.3 22.9





#15
Acetone
Concen: 9.624 ppbv
RT: 1.839 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

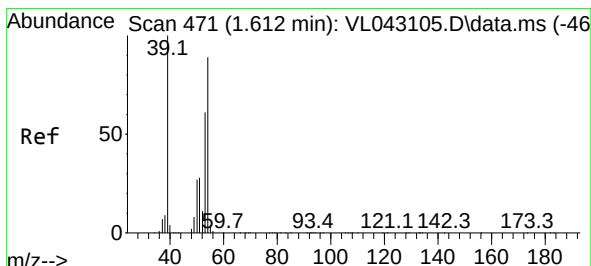
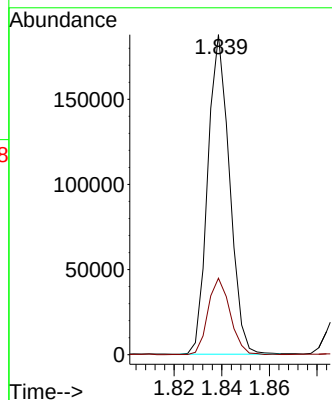
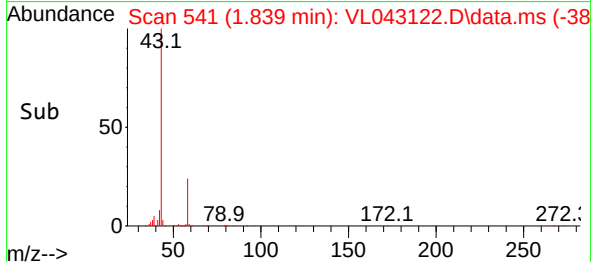
Instrument :
MSVOA_L
ClientSampleId :
VL1015ABSD01



Tgt Ion: 43 Resp: 118839
Ion Ratio Lower Upper
43 100
58 24.6 20.8 31.2

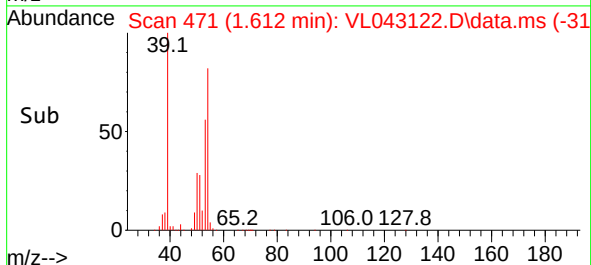
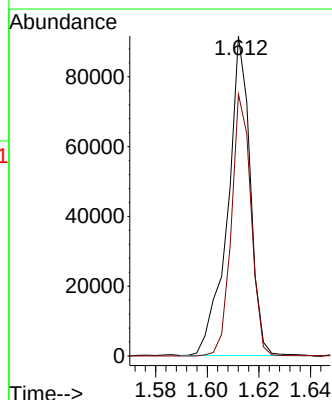
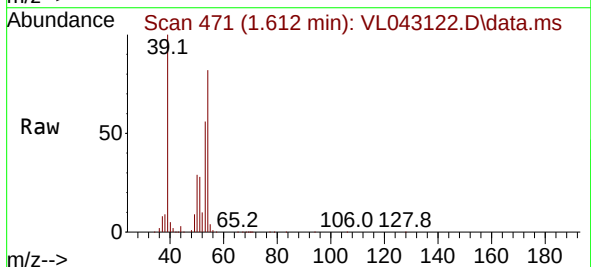
Manual Integrations
APPROVED

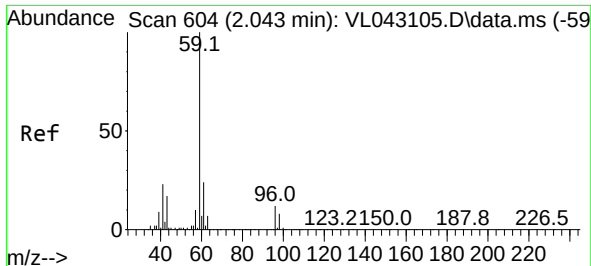
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025



#16
1,3-Butadiene
Concen: 9.399 ppbv
RT: 1.612 min Scan# 471
Delta R.T. -0.000 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

Tgt Ion: 39 Resp: 55311
Ion Ratio Lower Upper
39 100
54 71.6 59.0 88.4





#17

tert-Butyl alcohol

Concen: 10.302 ppbv

RT: 2.043 min Scan# 604

Delta R.T. -0.000 min

Lab File: VL043122.D

Acq: 15 Oct 2025 15:57

Instrument :

MSVOA_L

ClientSampleId :

VL1015ABSD01

Tgt Ion: 59 Resp: 174619

Ion Ratio Lower Upper

59 100

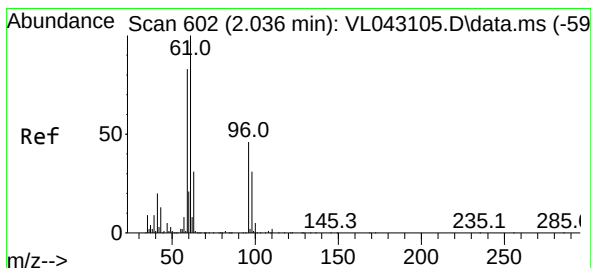
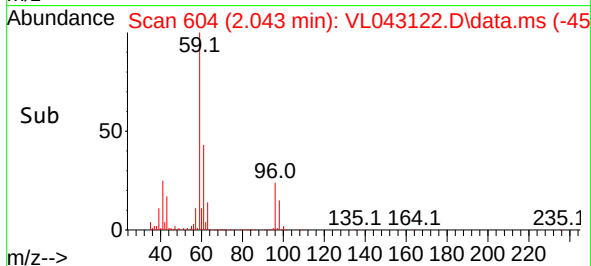
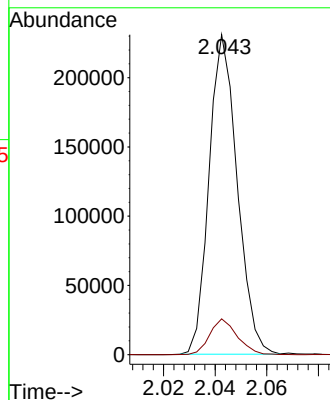
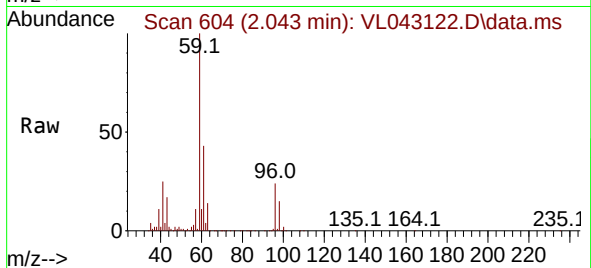
57 11.1 8.2 12.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/17/2025



#18

1,1-Dichloroethene

Concen: 11.408 ppbv

RT: 2.039 min Scan# 603

Delta R.T. 0.003 min

Lab File: VL043122.D

Acq: 15 Oct 2025 15:57

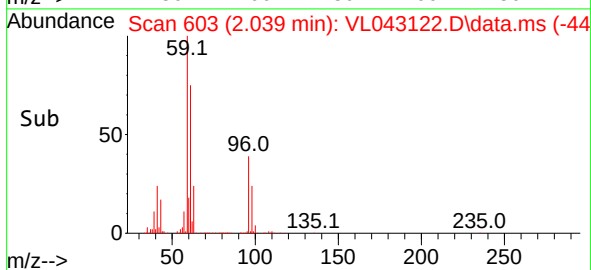
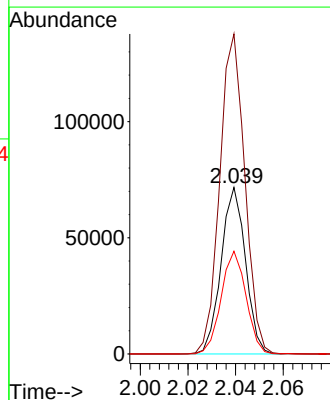
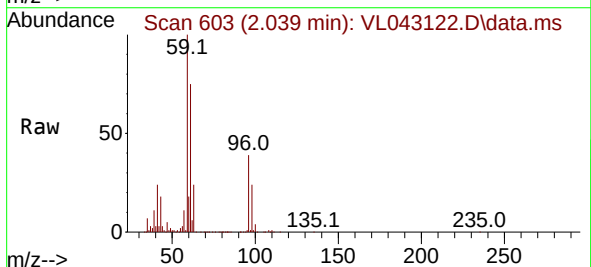
Tgt Ion: 96 Resp: 51012

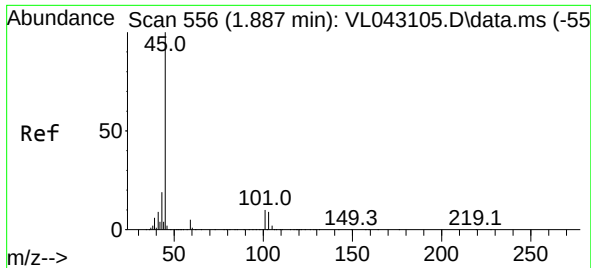
Ion Ratio Lower Upper

96 100

61 192.1 173.4 260.0

98 61.6 53.2 79.8





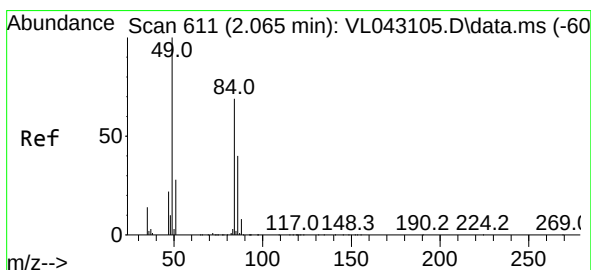
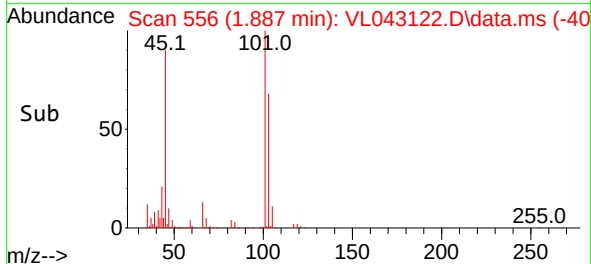
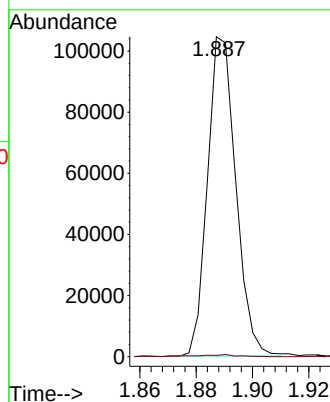
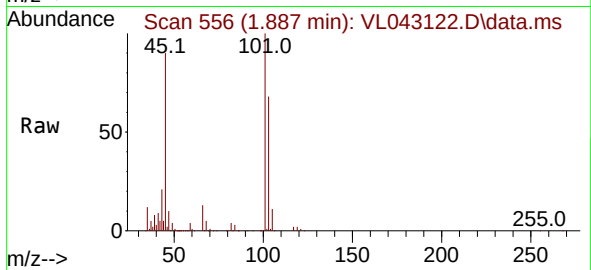
#19
Isopropyl Alcohol
Concen: 9.508 ppbv
RT: 1.887 min Scan# 556
Delta R.T. -0.000 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

Instrument :
MSVOA_L
ClientSampleId :
VL1015ABSD01

Tgt Ion: 45 Resp: 7312
Ion Ratio Lower Upper
45 100
58 40.0 31.3 46.9

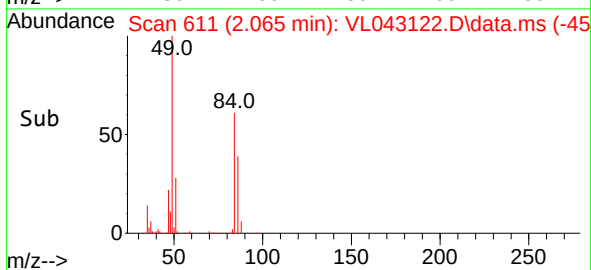
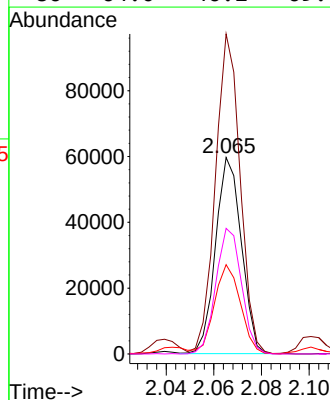
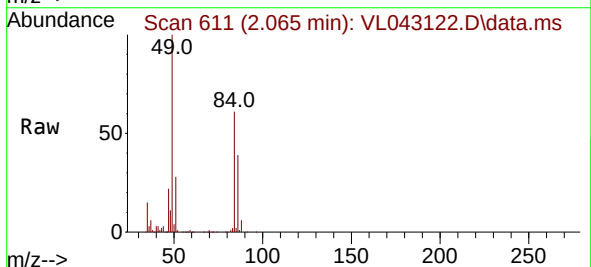
Manual Integrations
APPROVED

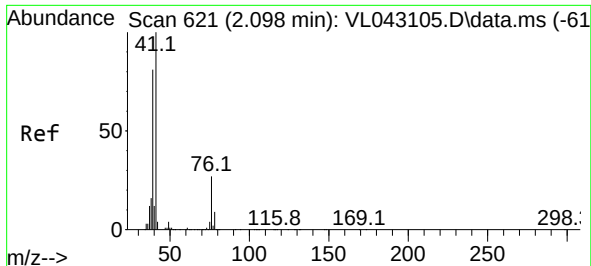
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025



#20
Methylene Chloride
Concen: 9.190 ppbv
RT: 2.065 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

Tgt Ion: 84 Resp: 44858
Ion Ratio Lower Upper
84 100
49 162.8 116.6 175.0
51 45.5 34.8 52.2
86 64.0 46.2 69.4





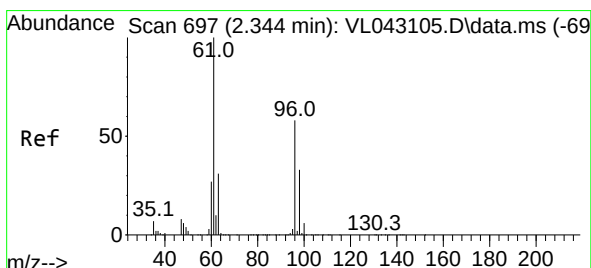
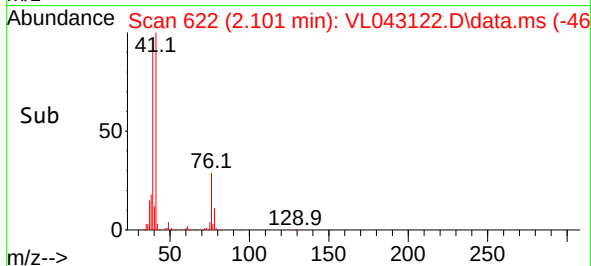
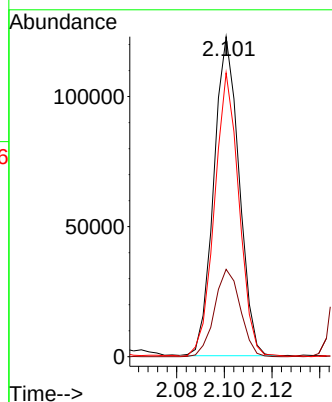
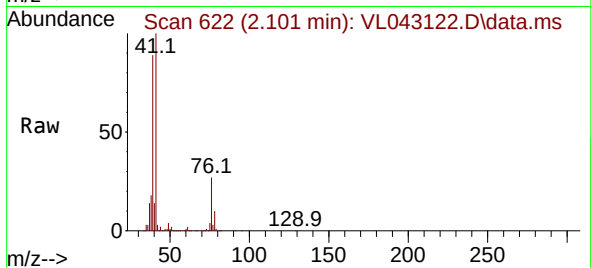
#21
 Allyl Chloride
 Concen: 9.952 ppbv
 RT: 2.101 min Scan# 61
 Delta R.T. 0.003 min
 Lab File: VL043122.D
 Acq: 15 Oct 2025 15:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1015ABSD01

Tgt Ion: 41 Resp: 9055
 Ion Ratio Lower Upper
 41 100
 76 27.8 21.5 32.3
 39 85.6 60.8 91.2

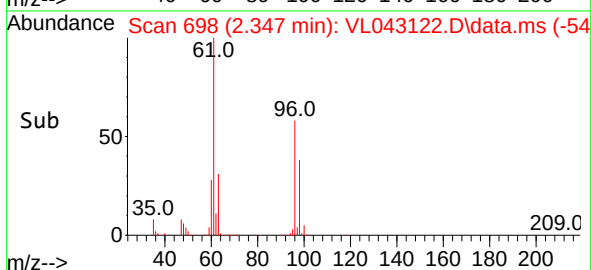
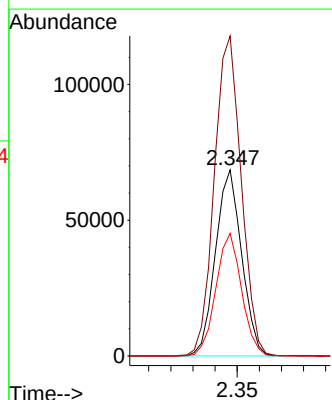
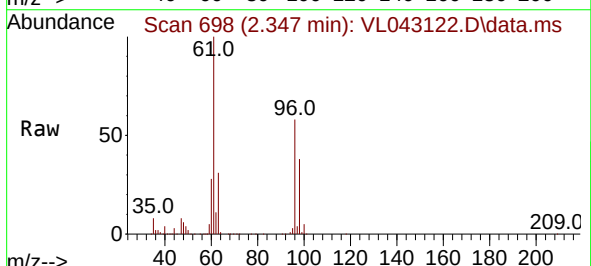
Manual Integrations
 APPROVED

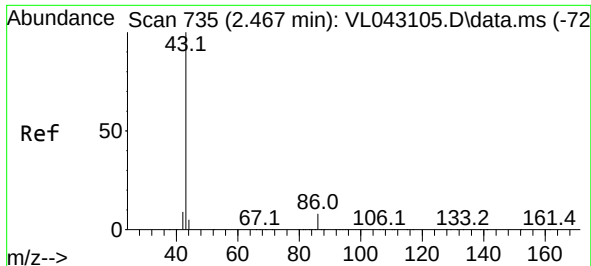
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/17/2025



#22
 trans-1,2-Dichloroethene
 Concen: 10.539 ppbv
 RT: 2.347 min Scan# 698
 Delta R.T. 0.003 min
 Lab File: VL043122.D
 Acq: 15 Oct 2025 15:57

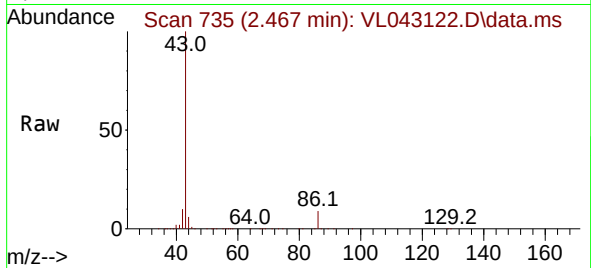
Tgt Ion: 96 Resp: 56333
 Ion Ratio Lower Upper
 96 100
 61 172.0 137.0 205.6
 98 65.9 45.5 68.3





#23
 Vinyl Acetate
 Concen: 9.822 ppbv
 RT: 2.467 min Scan# 718
 Delta R.T. -0.000 min
 Lab File: VL043122.D
 Acq: 15 Oct 2025 15:57

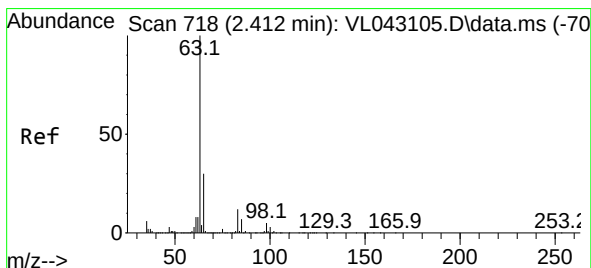
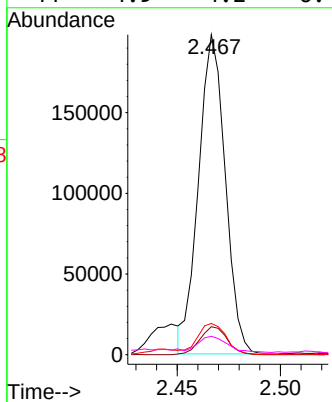
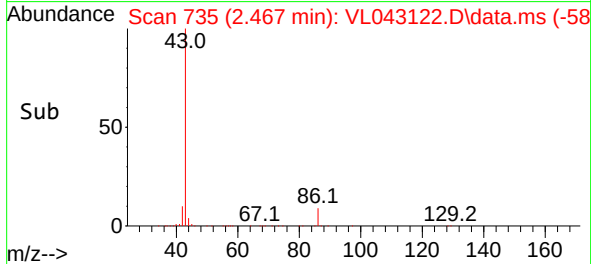
Instrument :
 MSVOA_L
 ClientSampleId :
 VL1015ABSD01



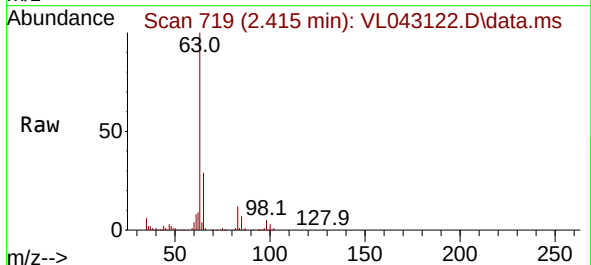
Tgt Ion: 43 Resp: 177669
 Ion Ratio Lower Upper
 43 100
 86 8.8 6.2 9.2
 42 9.7 7.6 11.4
 44 4.9 4.2 6.4

Manual Integrations
 APPROVED

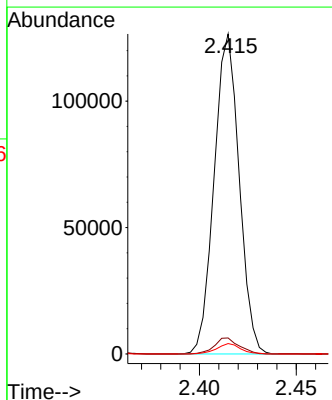
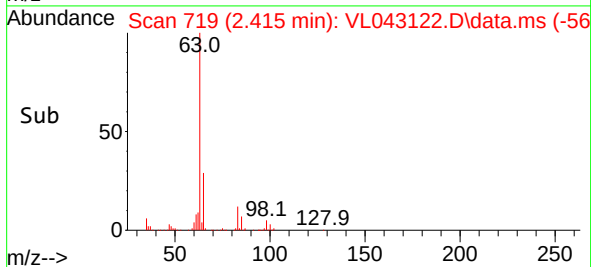
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/17/2025

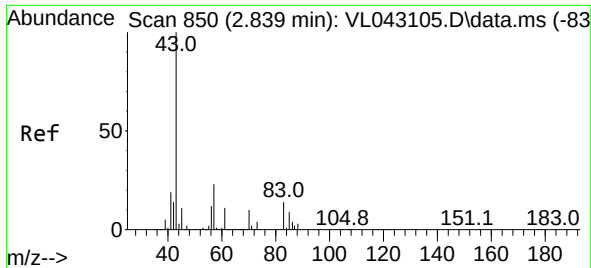


#24
 1,1-Dichloroethane
 Concen: 11.006 ppbv
 RT: 2.415 min Scan# 719
 Delta R.T. 0.003 min
 Lab File: VL043122.D
 Acq: 15 Oct 2025 15:57



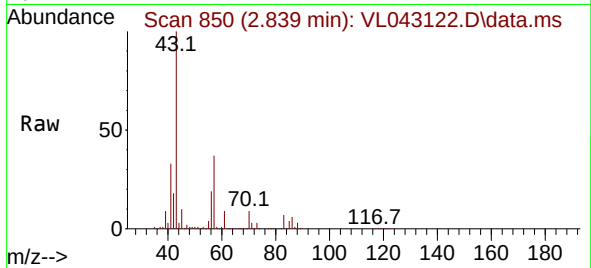
Tgt Ion: 63 Resp: 113663
 Ion Ratio Lower Upper
 63 100
 98 5.0 2.6 7.8
 100 3.3 1.5 4.4





#25
Ethyl Acetate
Concen: 8.880 ppbv
RT: 2.839 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

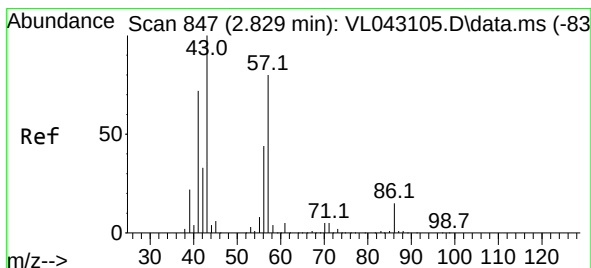
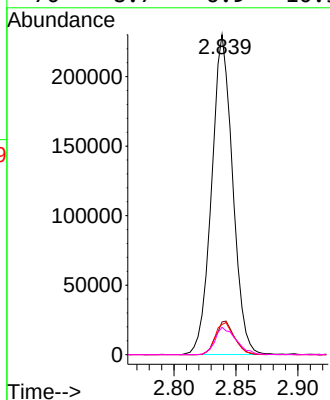
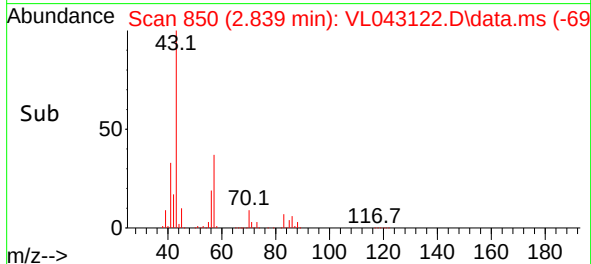
Instrument :
MSVOA_L
ClientSampleId :
VL1015ABSD01



Tgt Ion:	43	Resp:	271918
Ion Ratio	100	Lower	Upper
43	100		
45	9.5	7.8	11.8
61	9.3	7.0	10.6
70	8.7	6.9	10.3

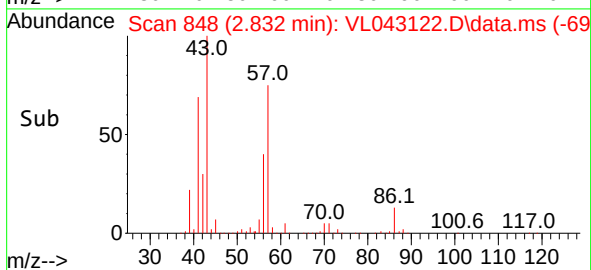
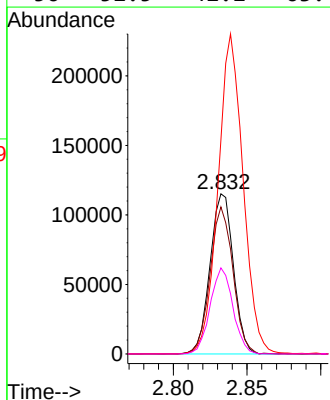
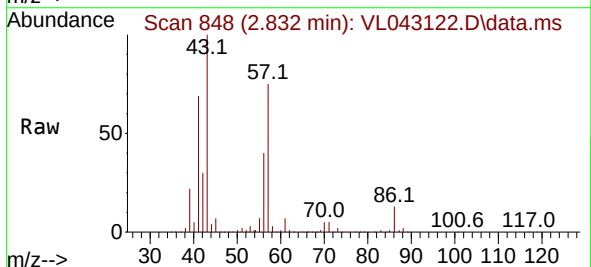
Manual Integrations
APPROVED

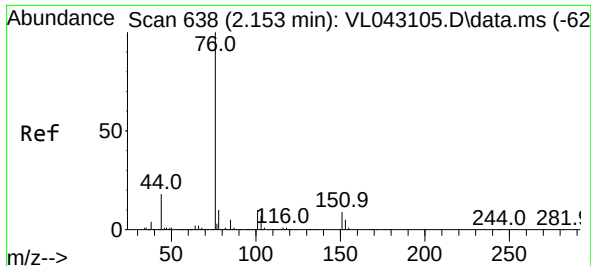
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025



#26
Hexane
Concen: 8.976 ppbv
RT: 2.832 min Scan# 848
Delta R.T. 0.003 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

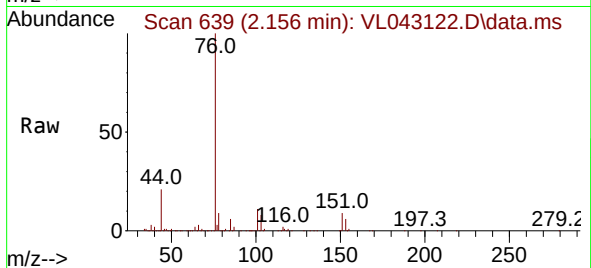
Tgt Ion:	57	Resp:	126655
Ion Ratio	100	Lower	Upper
57	100		
41	90.6	71.4	107.0
43	215.7	178.5	267.7
56	52.5	42.2	63.4





#27
Carbon Disulfide
Concen: 10.663 ppbv
RT: 2.156 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

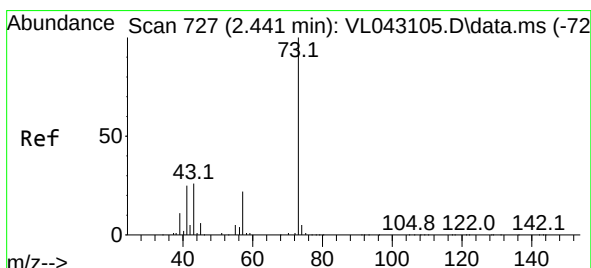
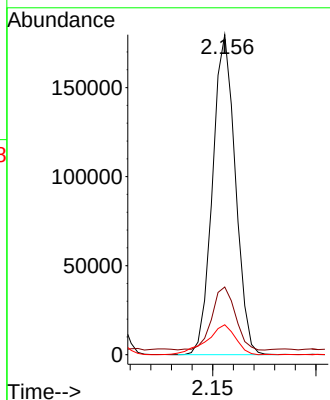
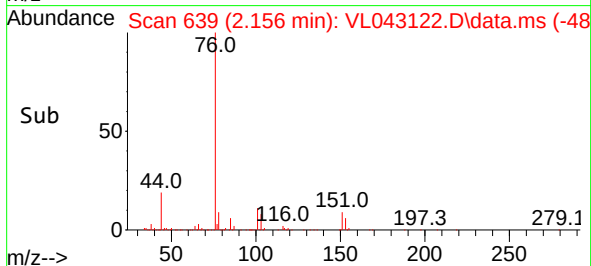
Instrument :
MSVOA_L
ClientSampleId :
VL1015ABSD01



Tgt Ion: 76 Resp: 13785
Ion Ratio Lower Upper
76 100
44 20.1 16.7 25.1
78 11.9 9.3 13.9

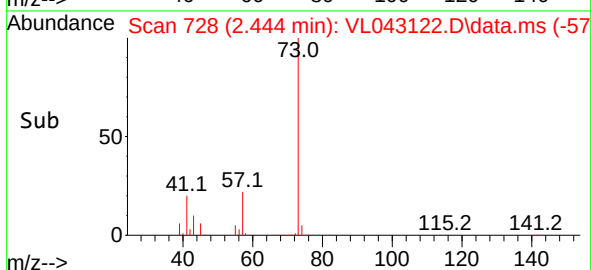
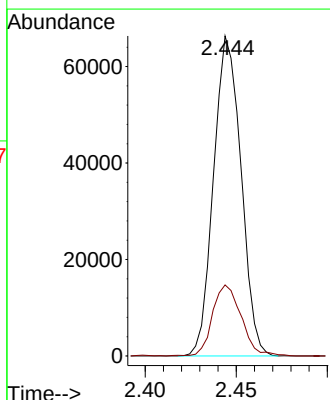
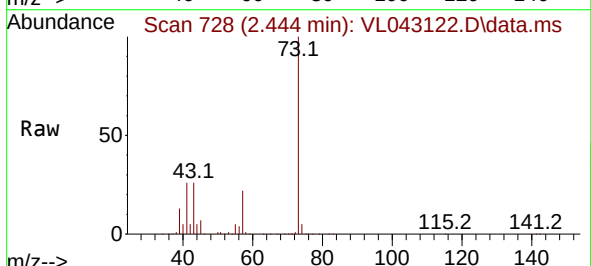
Manual Integrations
APPROVED

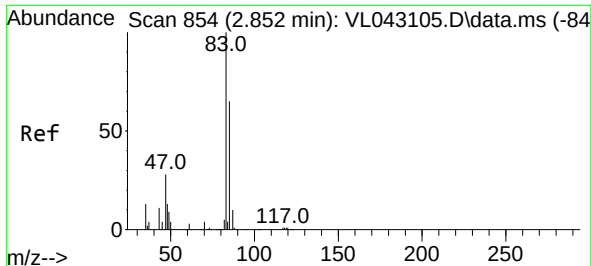
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025



#28
Methyl tert-Butyl Ether
Concen: 10.818 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.003 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

Tgt Ion: 73 Resp: 69446
Ion Ratio Lower Upper
73 100
57 23.5 20.5 30.7





#29

Chloroform

Concen: 10.496 ppbv

RT: 2.855 min Scan# 854

Delta R.T. 0.003 min

Lab File: VL043122.D

Acq: 15 Oct 2025 15:57

Instrument :

MSVOA_L

ClientSampleId :

VL1015ABSD01

Tgt Ion: 83 Resp: 21458

Ion Ratio Lower Upper

83 100

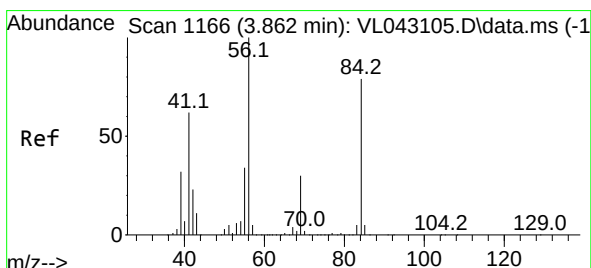
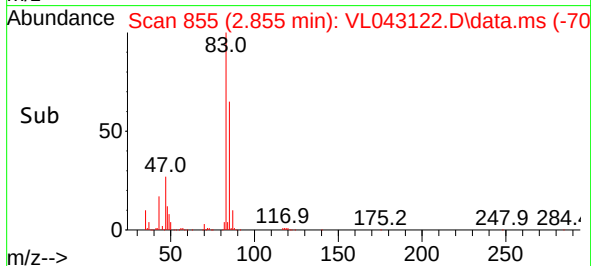
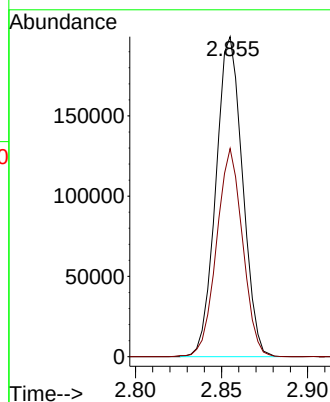
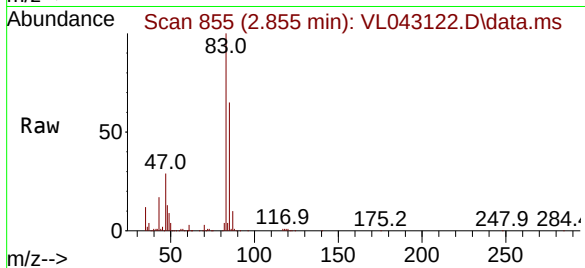
85 65.0 51.8 77.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/17/2025



#30

Cyclohexane

Concen: 9.100 ppbv

RT: 3.865 min Scan# 1167

Delta R.T. 0.003 min

Lab File: VL043122.D

Acq: 15 Oct 2025 15:57

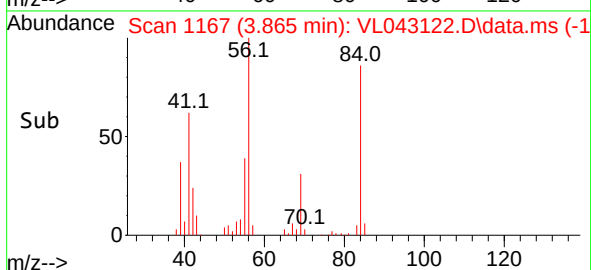
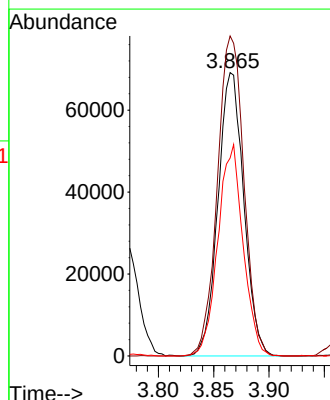
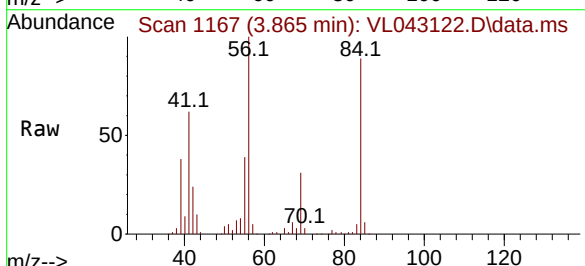
Tgt Ion: 84 Resp: 112065

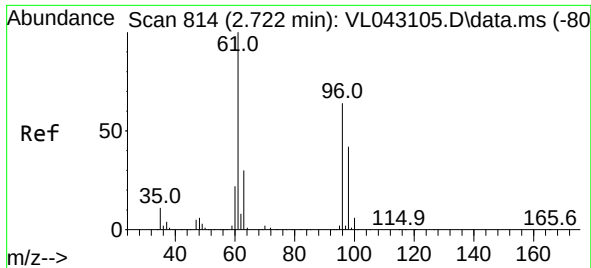
Ion Ratio Lower Upper

84 100

56 116.2 100.9 151.3

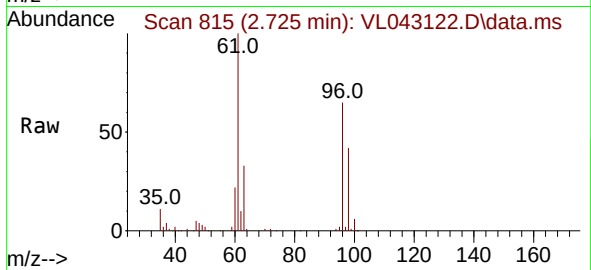
41 72.9 63.8 95.6





#31
 cis-1,2-Dichloroethene
 Concen: 10.216 ppbv
 RT: 2.725 min Scan# 814
 Delta R.T. 0.003 min
 Lab File: VL043122.D
 Acq: 15 Oct 2025 15:57

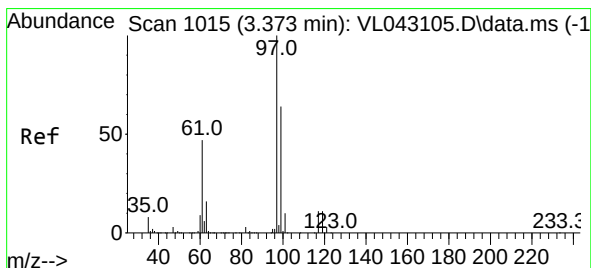
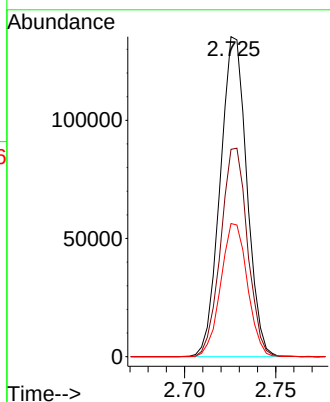
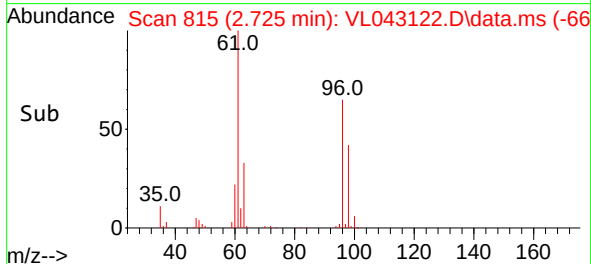
Instrument :
 MSVOA_L
 ClientSampleId :
 VL1015ABSD01



Tgt Ion: 61 Resp: 137648
 Ion Ratio Lower Upper
 61 100
 96 64.8 51.0 76.6
 98 41.6 33.5 50.3

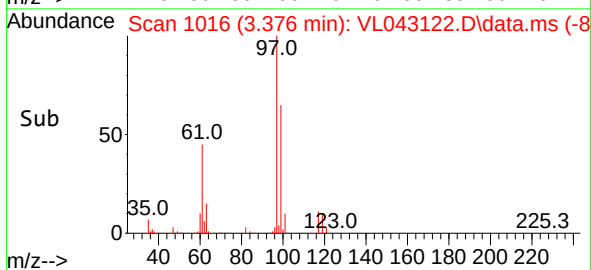
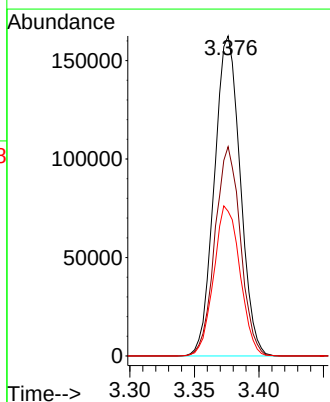
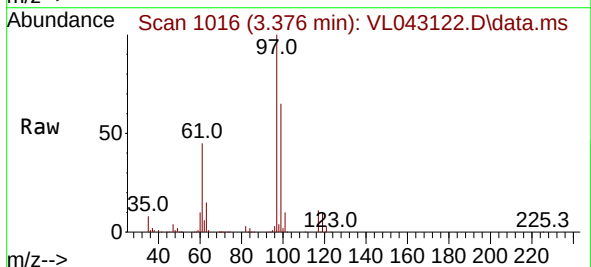
Manual Integrations
 APPROVED

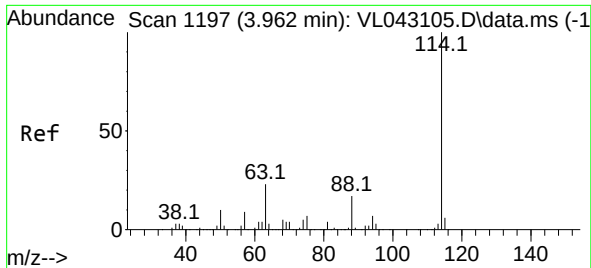
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/17/2025



#32
 1,1,1-Trichloroethane
 Concen: 10.634 ppbv
 RT: 3.376 min Scan# 1016
 Delta R.T. 0.003 min
 Lab File: VL043122.D
 Acq: 15 Oct 2025 15:57

Tgt Ion: 97 Resp: 226398
 Ion Ratio Lower Upper
 97 100
 99 64.5 51.3 76.9
 61 47.5 38.4 57.6





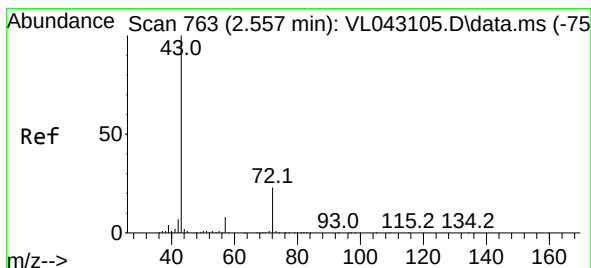
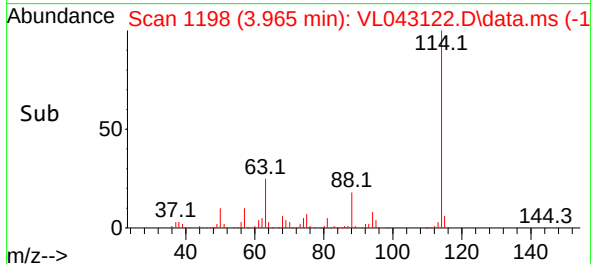
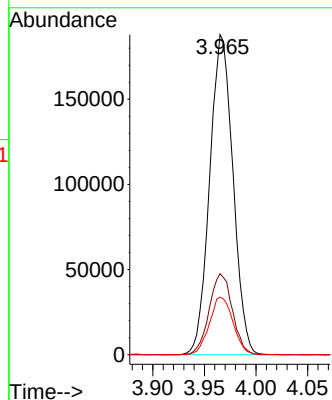
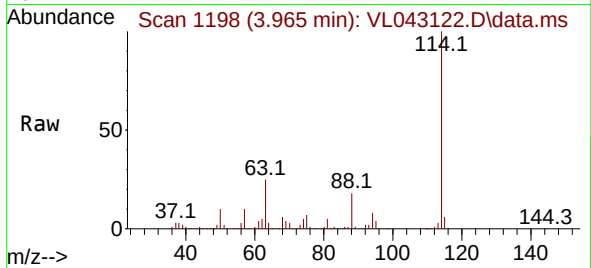
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.965 min Scan# 1198
 Delta R.T. 0.003 min
 Lab File: VL043122.D
 Acq: 15 Oct 2025 15:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1015ABSD01

Tgt Ion:114 Resp: 29431
 Ion Ratio Lower Upper
 114 100
 63 25.3 19.3 28.9
 88 18.3 13.9 20.9

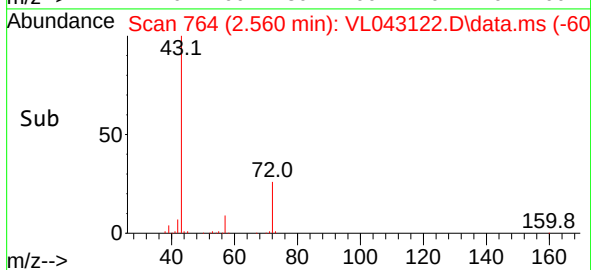
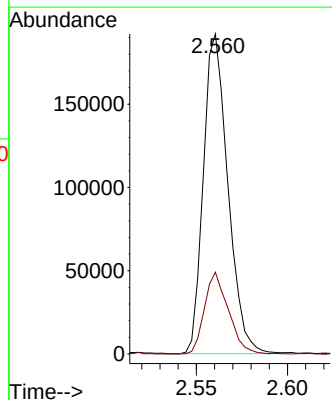
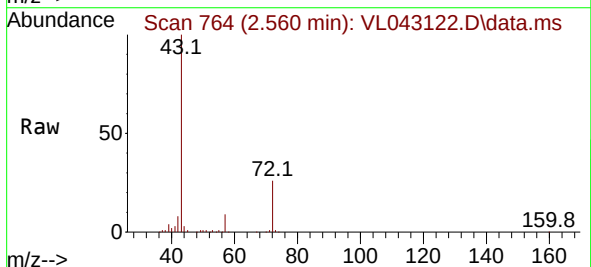
Manual Integrations
 APPROVED

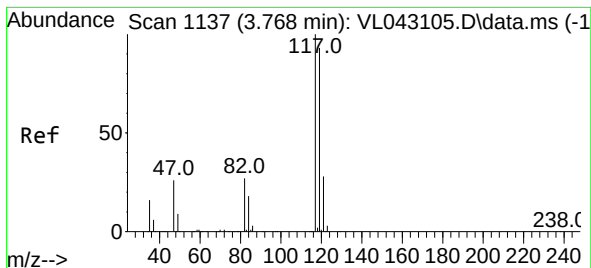
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/17/2025



#34
 2-Butanone
 Concen: 9.109 ppbv
 RT: 2.560 min Scan# 764
 Delta R.T. 0.003 min
 Lab File: VL043122.D
 Acq: 15 Oct 2025 15:57

Tgt Ion: 43 Resp: 180212
 Ion Ratio Lower Upper
 43 100
 72 25.0 18.4 27.6





#35

Carbon Tetrachloride

Concen: 10.811 ppbv

RT: 3.771 min Scan# 1137

Delta R.T. 0.003 min

Lab File: VL043122.D

Acq: 15 Oct 2025 15:57

Instrument :

MSVOA_L

ClientSampleId :

VL1015ABSD01

Tgt Ion:117 Resp: 22877

Ion Ratio Lower Upper

117 100

119 96.5 74.1 111.1

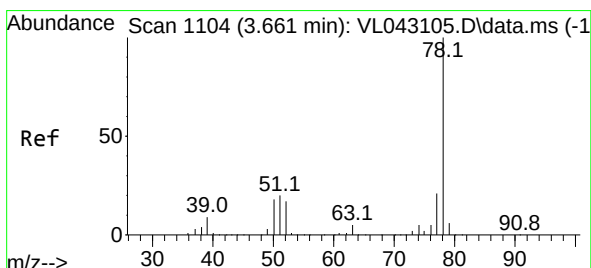
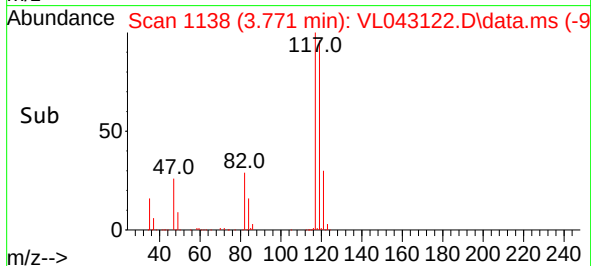
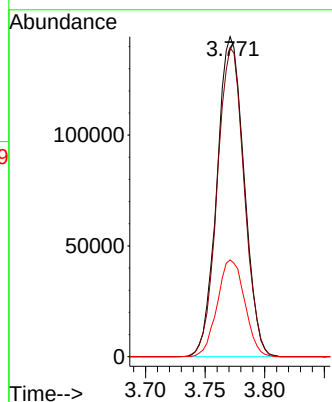
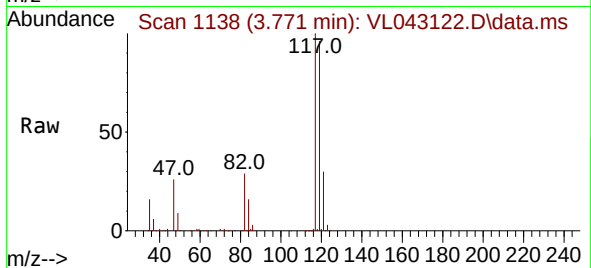
121 30.3 22.2 33.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/17/2025



#36

Benzene

Concen: 9.418 ppbv

RT: 3.664 min Scan# 1105

Delta R.T. 0.003 min

Lab File: VL043122.D

Acq: 15 Oct 2025 15:57

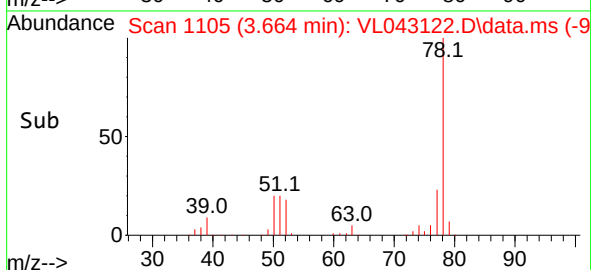
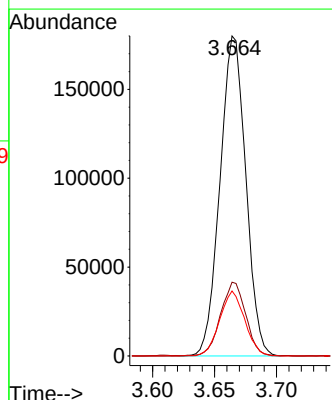
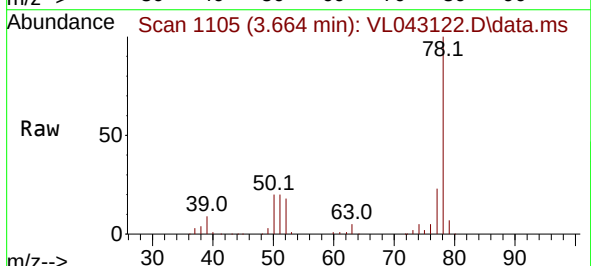
Tgt Ion: 78 Resp: 261070

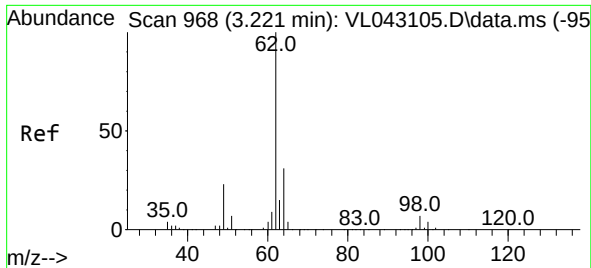
Ion Ratio Lower Upper

78 100

77 23.0 17.0 25.6

50 20.3 14.6 22.0





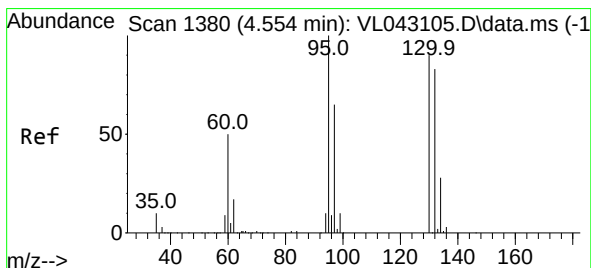
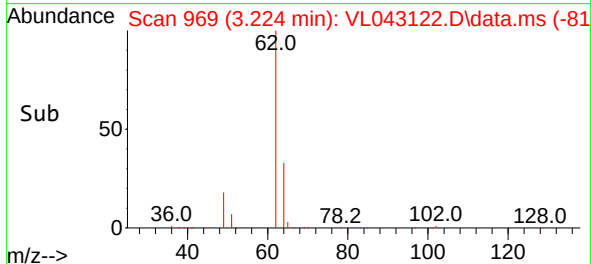
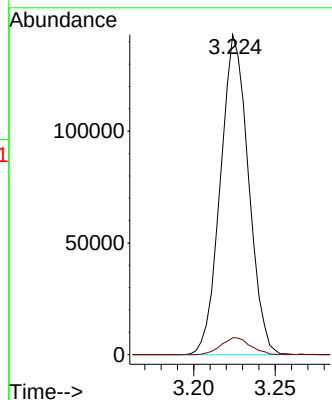
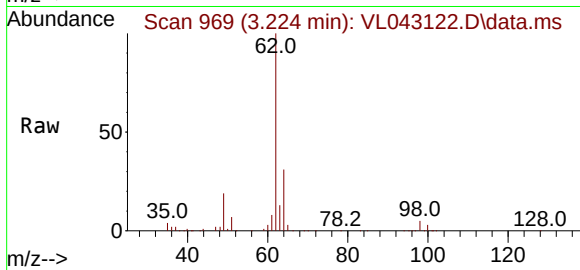
#37
1,2-Dichloroethane
Concen: 10.717 ppbv
RT: 3.224 min Scan# 969
Delta R.T. 0.003 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

Instrument :
MSVOA_L
ClientSampleId :
VL1015ABSD01

Tgt Ion: 62 Resp: 171130
Ion Ratio Lower Upper
62 100
98 5.6 5.8 8.6

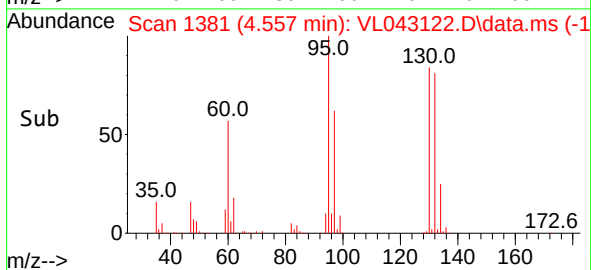
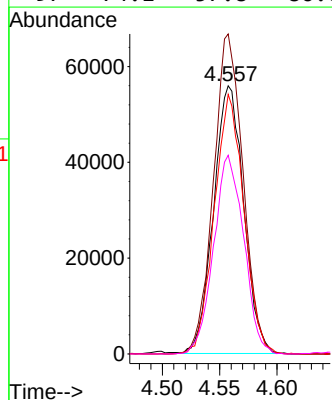
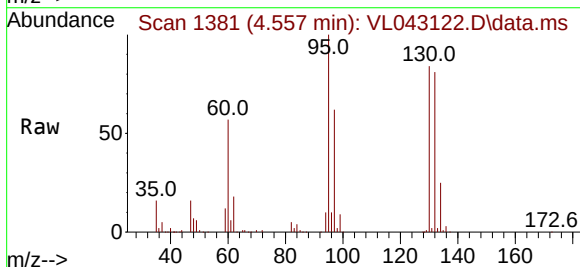
Manual Integrations
APPROVED

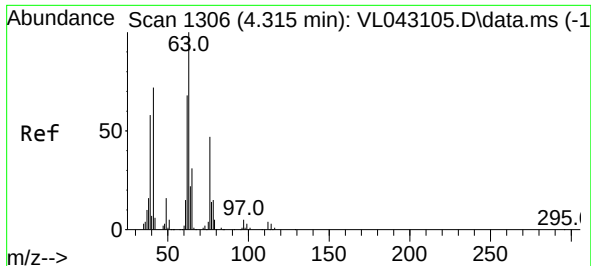
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025



#38
Trichloroethene
Concen: 8.813 ppbv
RT: 4.557 min Scan# 1381
Delta R.T. 0.003 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

Tgt Ion:130 Resp: 102021
Ion Ratio Lower Upper
130 100
95 119.3 88.6 133.0
132 96.7 73.4 110.0
97 74.1 57.8 86.6





#39

1,2-Dichloropropane

Concen: 9.021 ppbv

RT: 4.321 min Scan# 11

Delta R.T. 0.006 min

Lab File: VL043122.D

Acq: 15 Oct 2025 15:57

Instrument :

MSVOA_L

ClientSampleId :

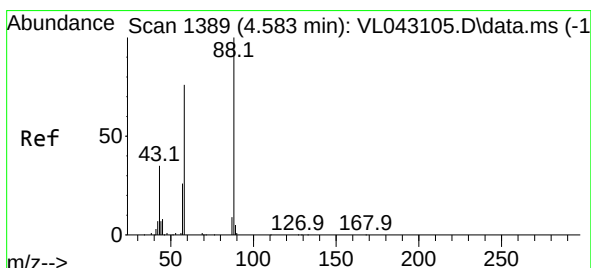
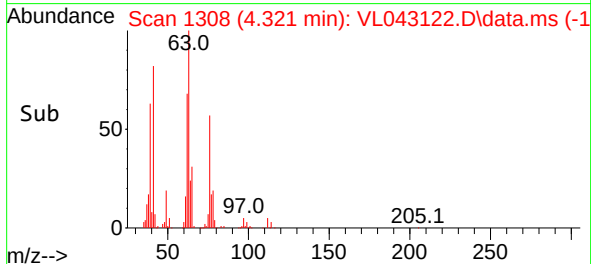
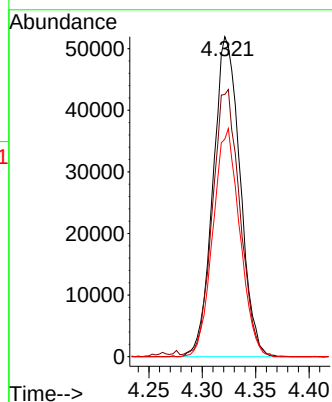
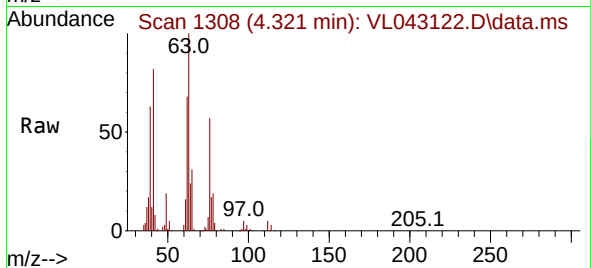
VL1015ABSD01

Tgt Ion:	63	Resp:	9141
Ion	Ratio	Lower	Upper
63	100		
41	81.8	58.0	87.0
62	68.0	54.7	82.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025



#40

1,4-Dioxane

Concen: 9.057 ppbv

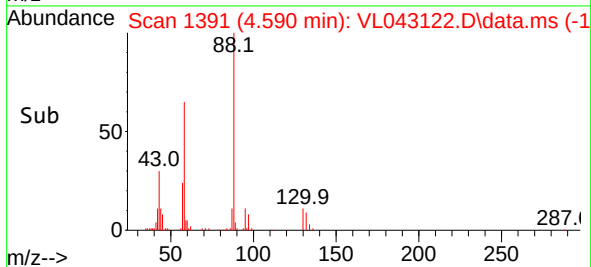
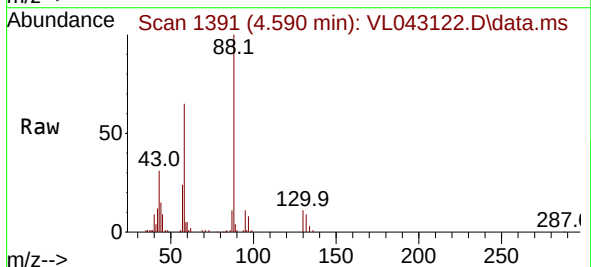
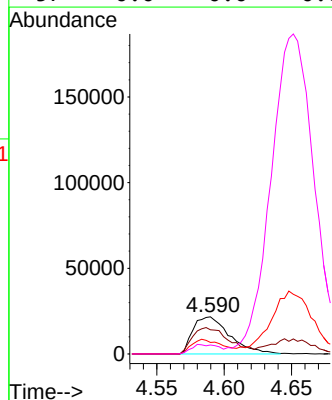
RT: 4.590 min Scan# 1391

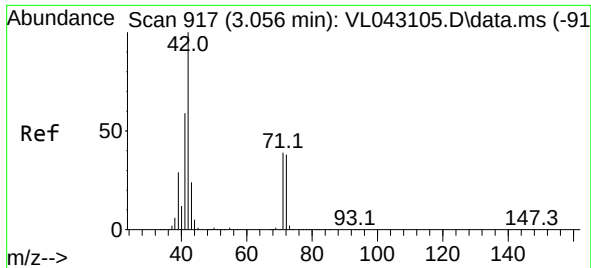
Delta R.T. 0.006 min

Lab File: VL043122.D

Acq: 15 Oct 2025 15:57

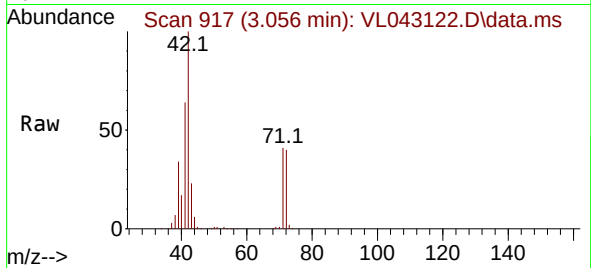
Tgt Ion:	88	Resp:	41071
Ion	Ratio	Lower	Upper
88	100		
58	71.3	61.1	91.7
43	29.9	24.0	36.0
57	0.0	0.0	0.0





#41
Tetrahydrofuran
Concen: 8.131 ppbv
RT: 3.056 min Scan# 917
Delta R.T. -0.000 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

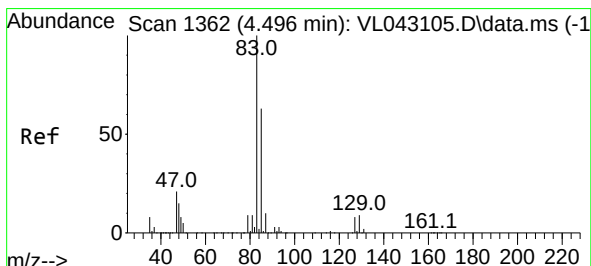
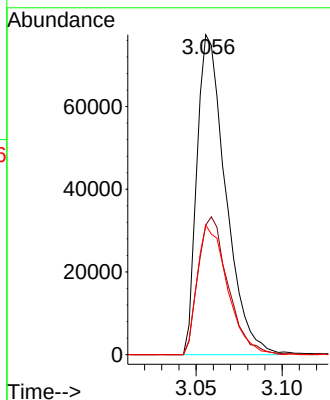
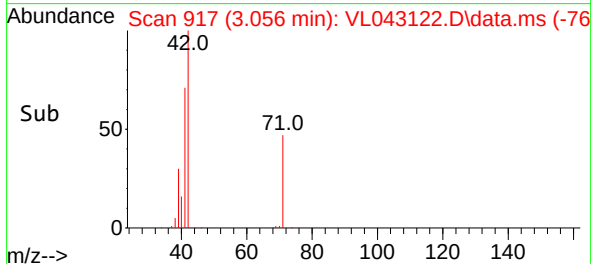
Instrument :
MSVOA_L
ClientSampleId :
VL1015ABSD01



Tgt Ion: 42 Resp: 89968
Ion Ratio Lower Upper
42 100
72 44.9 31.3 46.9
71 42.6 30.4 45.6

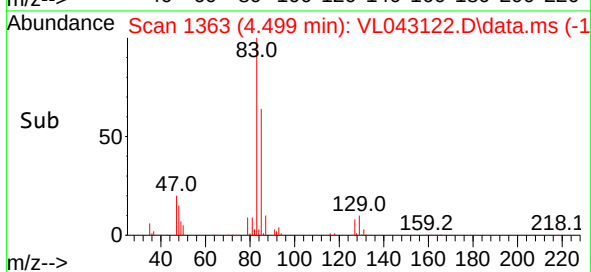
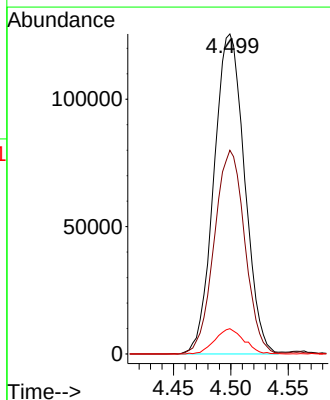
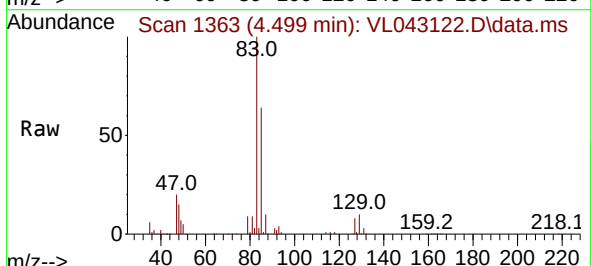
Manual Integrations
APPROVED

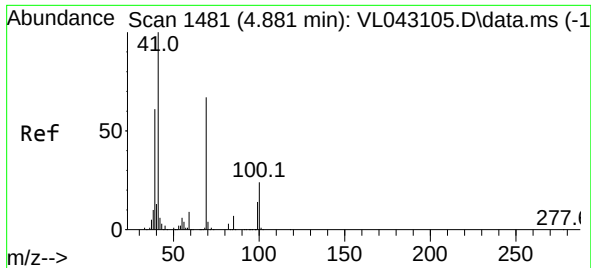
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025



#42
Bromodichloromethane
Concen: 10.563 ppbv
RT: 4.499 min Scan# 1363
Delta R.T. 0.003 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

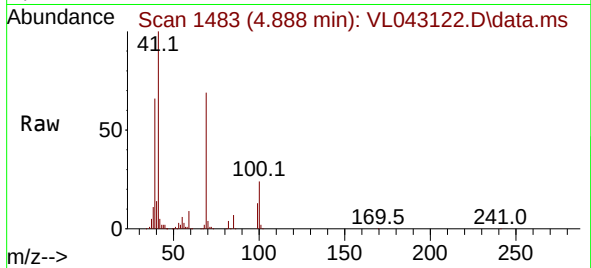
Tgt Ion: 83 Resp: 233460
Ion Ratio Lower Upper
83 100
85 63.6 50.6 75.8
127 7.9 6.3 9.5





#43
Methyl Methacrylate
Concen: 9.059 ppbv
RT: 4.888 min Scan# 1483
Delta R.T. 0.006 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

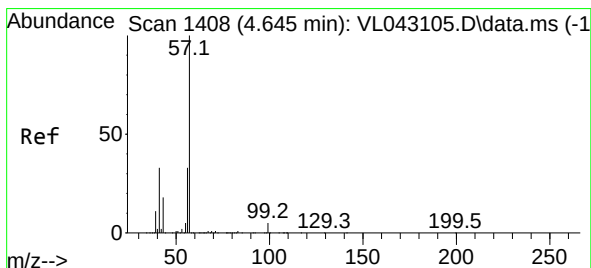
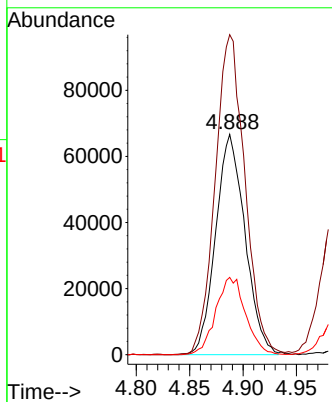
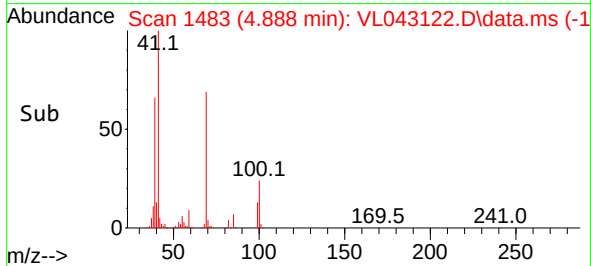
Instrument :
MSVOA_L
ClientSampleId :
VL1015ABSD01



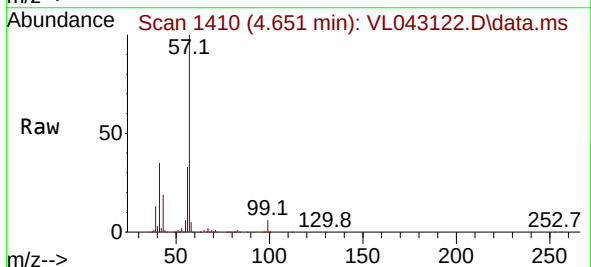
Tgt Ion: 69 Resp: 12754
Ion Ratio Lower Upper
69 100
41 147.1 120.5 180.7
100 35.6 29.0 43.4

Manual Integrations
APPROVED

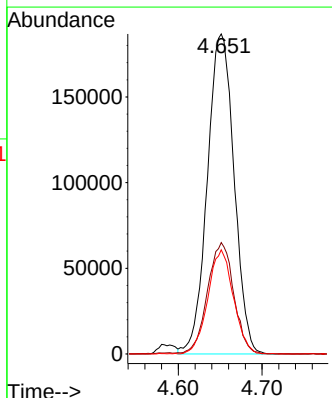
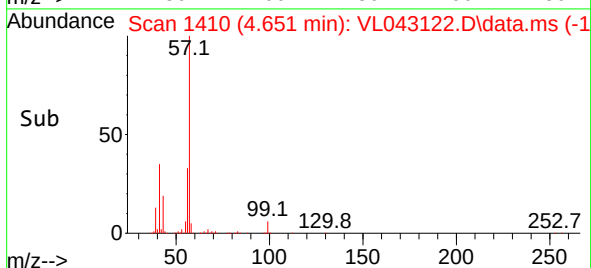
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025

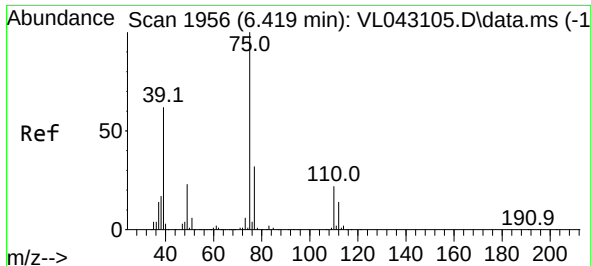


#44
2,2,4-Trimethylpentane
Concen: 8.870 ppbv
RT: 4.651 min Scan# 1410
Delta R.T. 0.006 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57



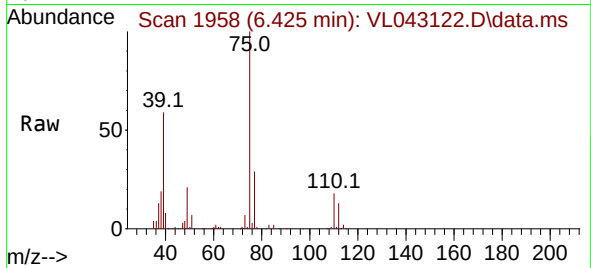
Tgt Ion: 57 Resp: 414817
Ion Ratio Lower Upper
57 100
41 34.4 26.3 39.5
56 31.1 25.9 38.9





#45
 t-1,3-Dichloropropene
 Concen: 9.773 ppbv
 RT: 6.425 min Scan# 1956
 Delta R.T. 0.006 min
 Lab File: VL043122.D
 Acq: 15 Oct 2025 15:57

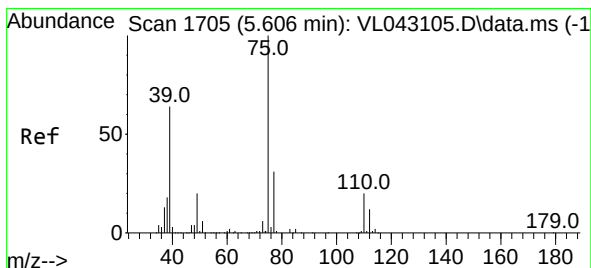
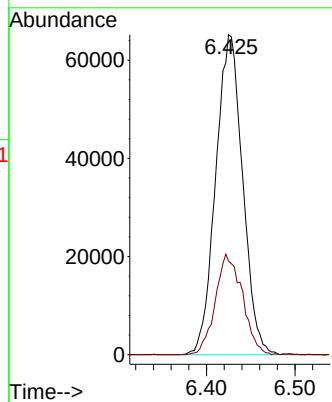
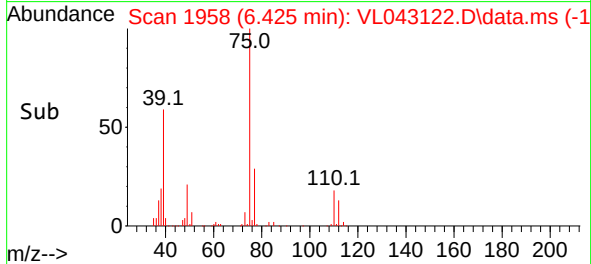
Instrument :
 MSVOA_L
 ClientSampleId :
 VL1015ABSD01



Tgt Ion: 75 Resp: 13808
 Ion Ratio Lower Upper
 75 100
 77 29.3 25.4 38.2

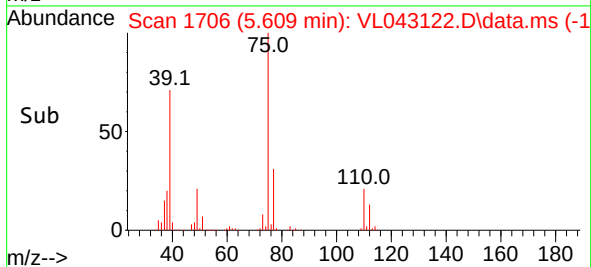
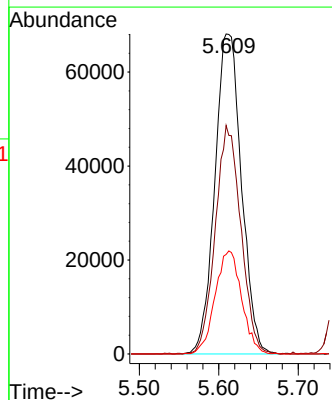
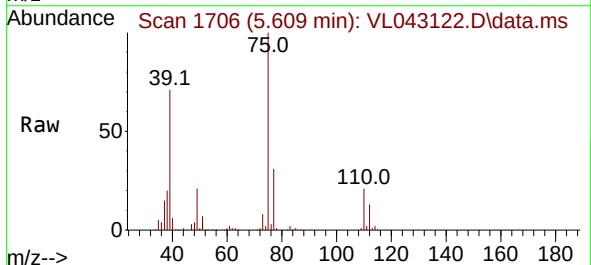
Manual Integrations
 APPROVED

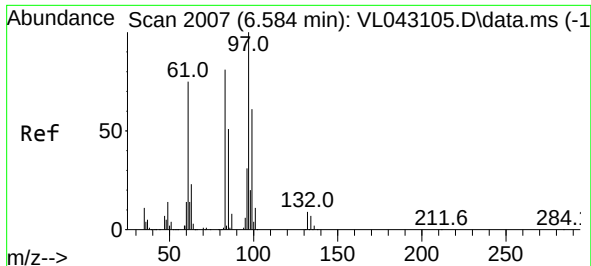
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/17/2025



#46
 cis-1,3-Dichloropropene
 Concen: 9.390 ppbv
 RT: 5.609 min Scan# 1706
 Delta R.T. 0.003 min
 Lab File: VL043122.D
 Acq: 15 Oct 2025 15:57

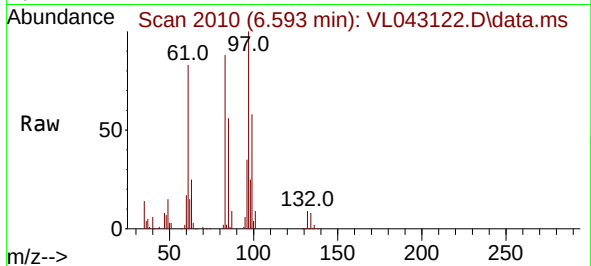
Tgt Ion: 75 Resp: 158488
 Ion Ratio Lower Upper
 75 100
 39 71.4 51.0 76.6
 77 31.1 25.0 37.4





#47
1,1,2-Trichloroethane
Concen: 9.356 ppbv
RT: 6.593 min Scan# 2007
Delta R.T. 0.009 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

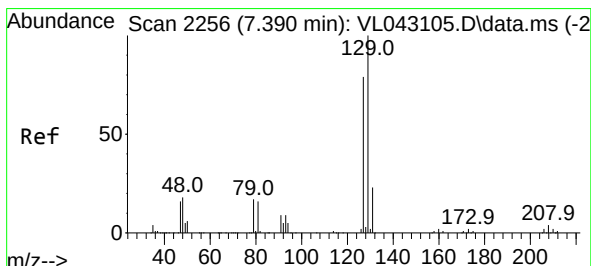
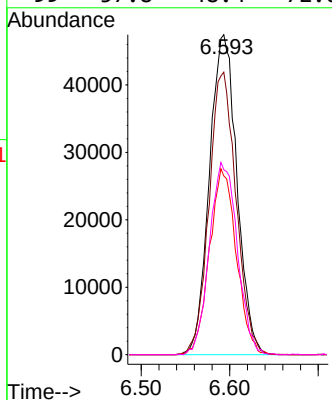
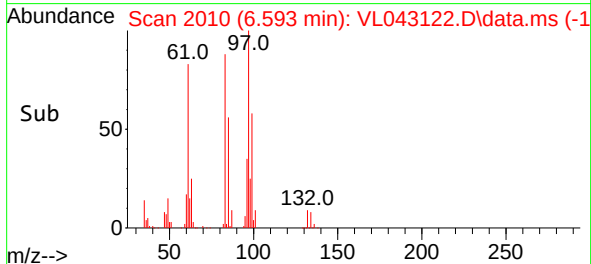
Instrument :
MSVOA_L
ClientSampleId :
VL1015ABSD01



Tgt Ion	Ratio	Lower	Upper
97	100		
83	88.2	64.6	96.8
85	55.8	40.6	60.8
99	57.8	48.4	72.6

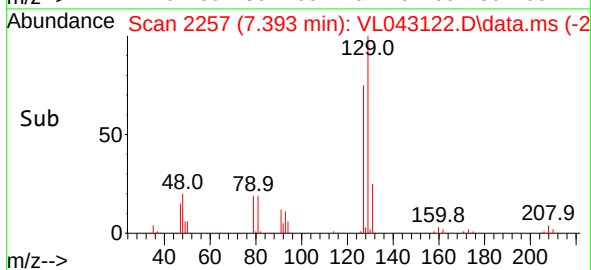
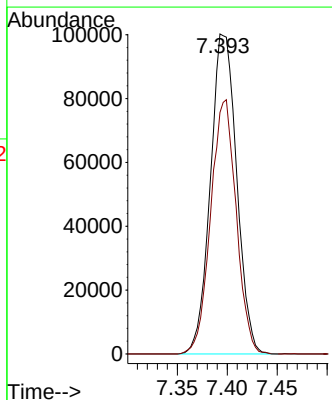
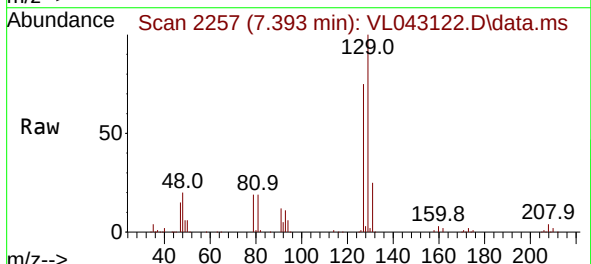
Manual Integrations
APPROVED

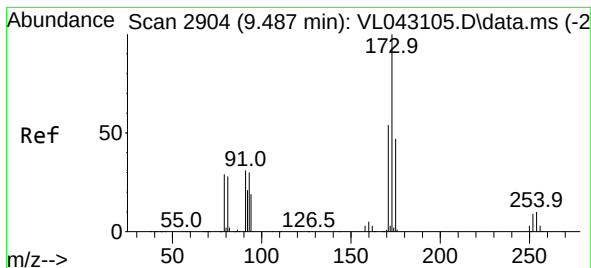
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025



#48
Dibromochloromethane
Concen: 10.029 ppbv
RT: 7.393 min Scan# 2257
Delta R.T. 0.003 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

Tgt Ion	Ratio	Lower	Upper
129	100		
127	77.0	39.3	117.9





#49

Bromoform

Concen: 10.102 ppbv

RT: 9.490 min Scan# 2904

Delta R.T. 0.003 min

Lab File: VL043122.D

Acq: 15 Oct 2025 15:57

Instrument :

MSVOA_L

ClientSampleId :

VL1015ABSD01

Tgt Ion:173 Resp: 150248

Ion Ratio Lower Upper

173 100

175 48.3 38.8 58.2

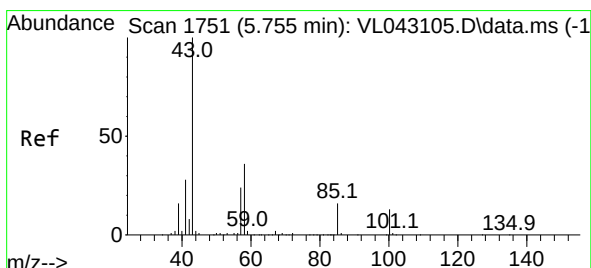
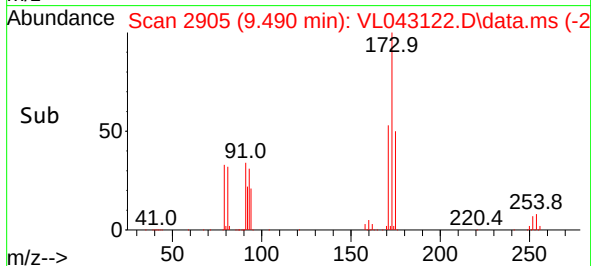
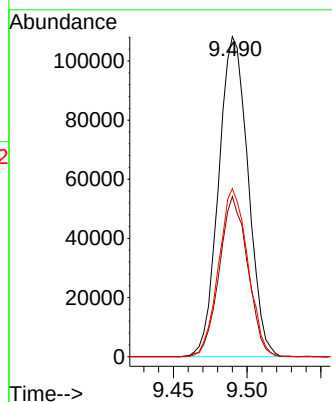
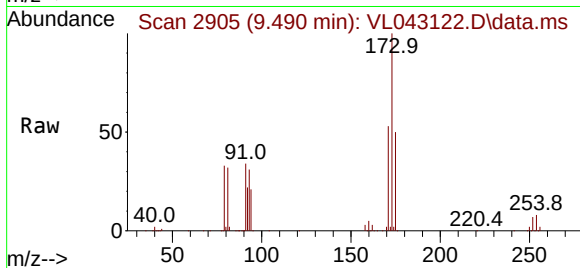
171 51.9 41.7 62.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/17/2025



#50

4-Methyl-2-Pentanone

Concen: 8.535 ppbv

RT: 5.755 min Scan# 1751

Delta R.T. -0.000 min

Lab File: VL043122.D

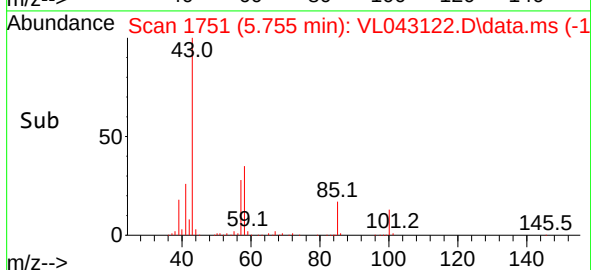
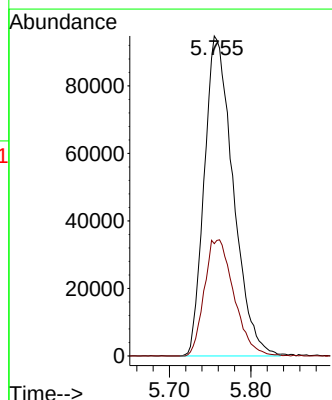
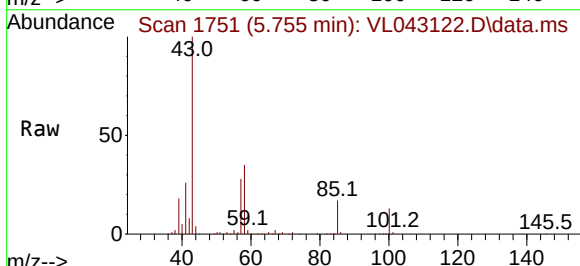
Acq: 15 Oct 2025 15:57

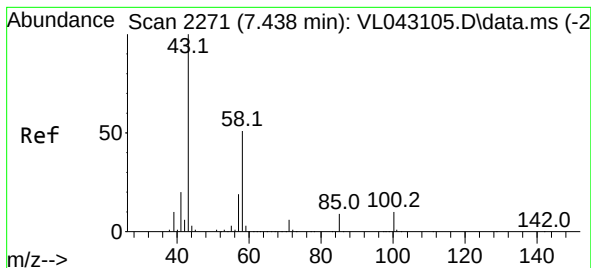
Tgt Ion: 43 Resp: 233019

Ion Ratio Lower Upper

43 100

58 37.4 29.1 43.7





#51

2-Hexanone

Concen: 8.933 ppbv

RT: 7.444 min Scan# 21

Delta R.T. 0.006 min

Lab File: VL043122.D

Acq: 15 Oct 2025 15:57

Instrument :

MSVOA_L

ClientSampleId :

VL1015ABSD01

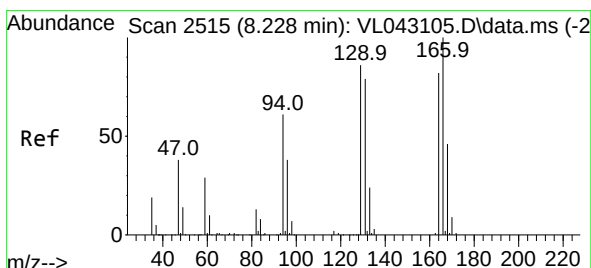
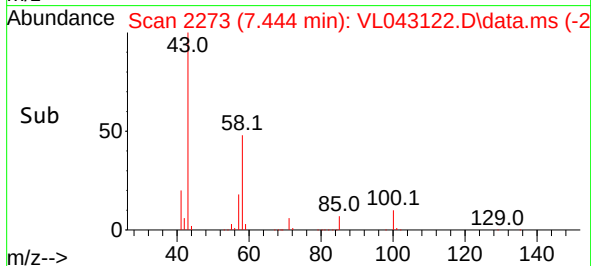
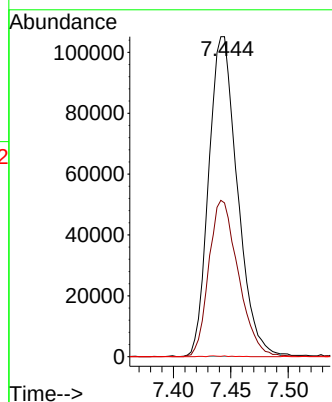
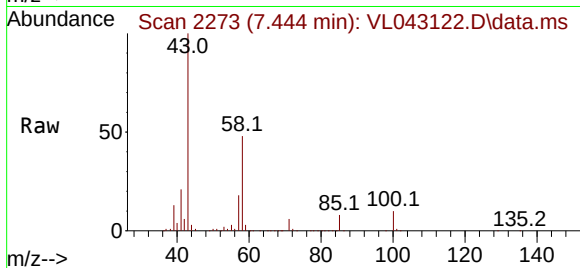
Tgt Ion: 43 Resp: 18293

Ion	Ratio	Lower	Upper
43	100		
58	50.5	40.4	60.6
98	0.2	0.1	0.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025



#52

Tetrachloroethene

Concen: 8.885 ppbv

RT: 8.234 min Scan# 2517

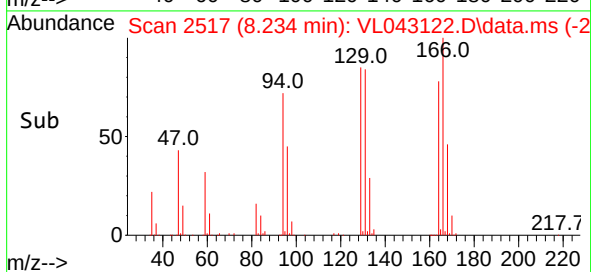
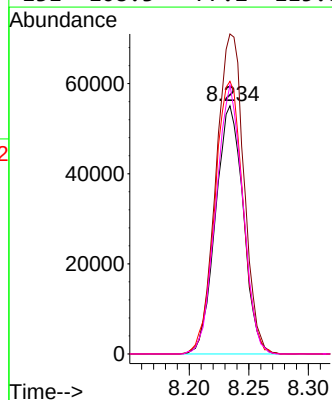
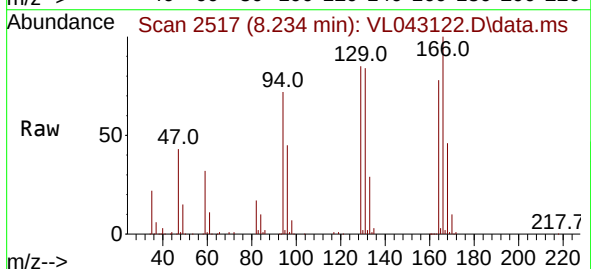
Delta R.T. 0.006 min

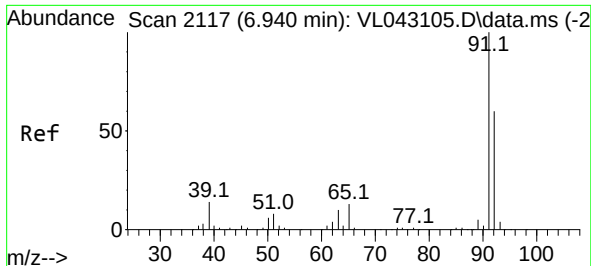
Lab File: VL043122.D

Acq: 15 Oct 2025 15:57

Tgt Ion:164 Resp: 88818

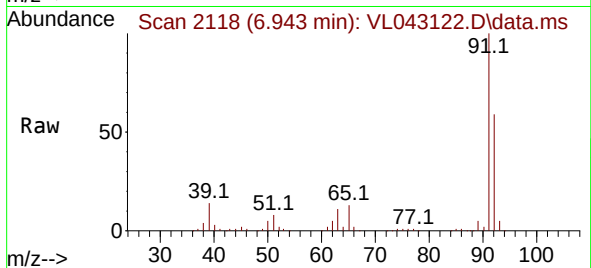
Ion	Ratio	Lower	Upper
164	100		
166	129.0	97.6	146.4
129	109.8	84.5	126.7
131	108.3	77.2	115.8





#53
Toluene
Concen: 9.066 ppbv
RT: 6.943 min Scan# 2117
Delta R.T. 0.003 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

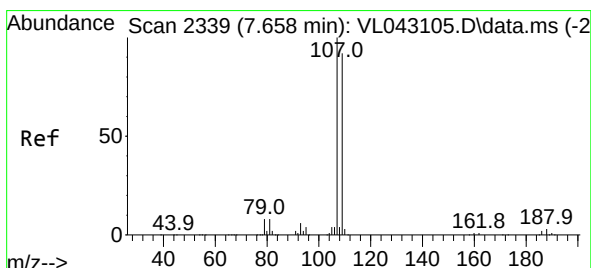
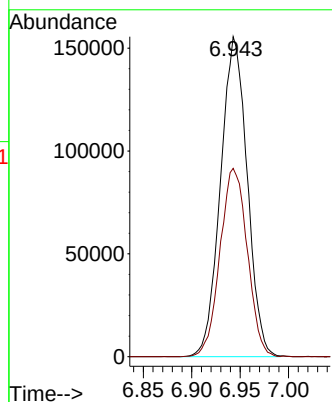
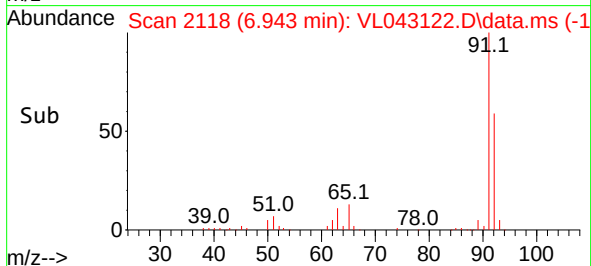
Instrument :
MSVOA_L
ClientSampleId :
VL1015ABSD01



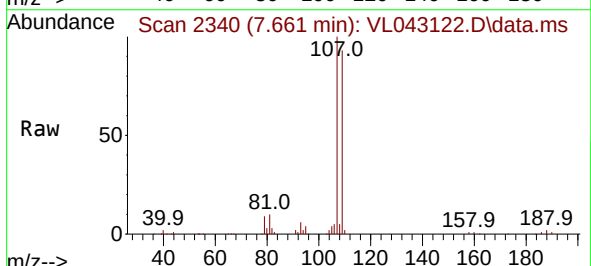
Tgt Ion: 91 Resp: 29827
Ion Ratio Lower Upper
91 100
92 60.3 48.8 73.2

Manual Integrations
APPROVED

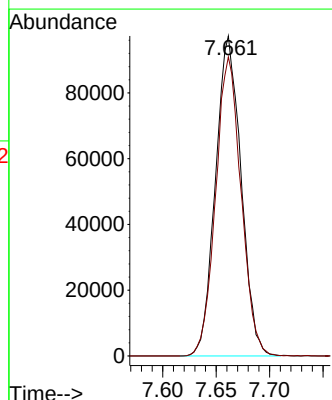
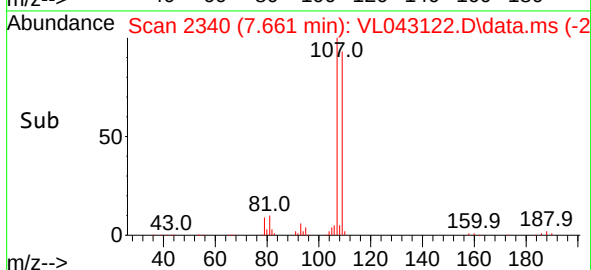
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025

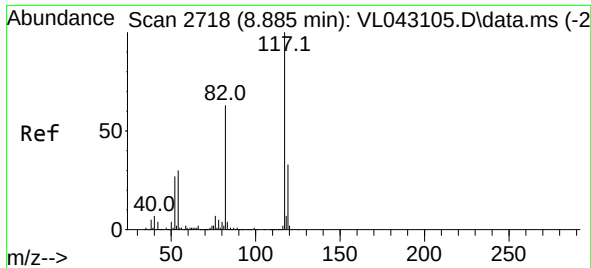


#54
1,2-Dibromoethane
Concen: 9.452 ppbv
RT: 7.661 min Scan# 2340
Delta R.T. 0.003 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57



Tgt Ion:107 Resp: 162018
Ion Ratio Lower Upper
107 100
109 93.5 73.4 110.2





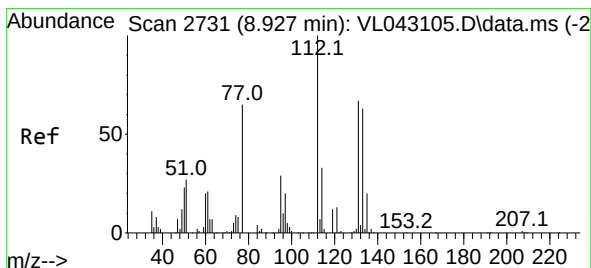
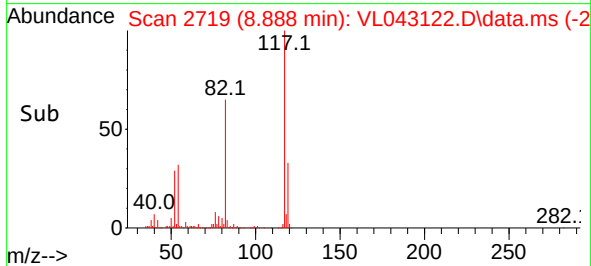
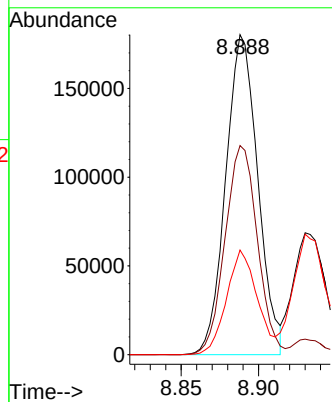
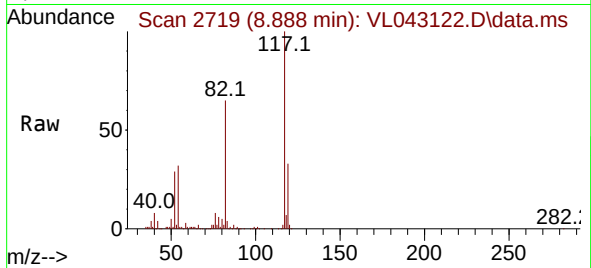
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2718
Delta R.T. 0.003 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

Instrument :
MSVOA_L
ClientSampleId :
VL1015ABSD01

Tgt Ion:117 Resp: 260330
Ion Ratio Lower Upper
117 100
82 70.3 53.8 80.8
119 30.6 25.4 38.0

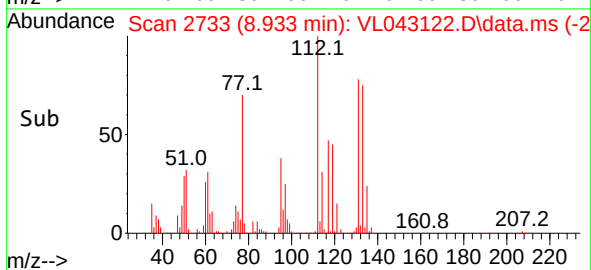
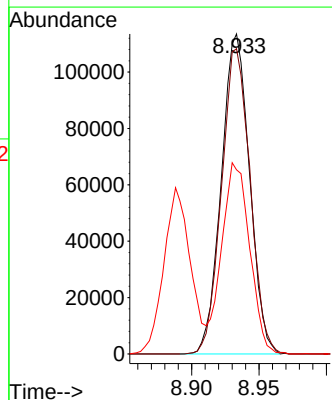
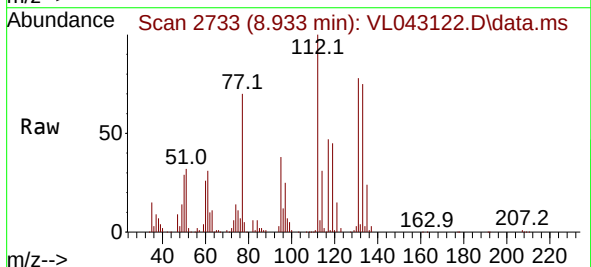
Manual Integrations
APPROVED

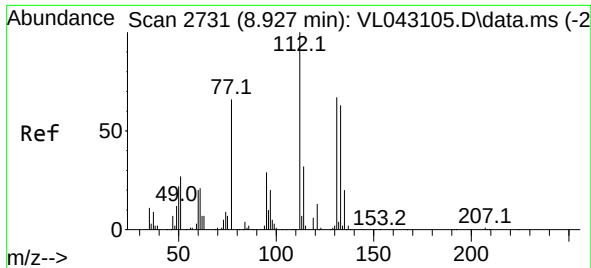
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025



#56
1,1,1,2-Tetrachloroethane
Concen: 10.085 ppbv
RT: 8.933 min Scan# 2733
Delta R.T. 0.006 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

Tgt Ion:131 Resp: 165501
Ion Ratio Lower Upper
131 100
133 96.5 75.7 113.5
119 57.8 50.6 76.0





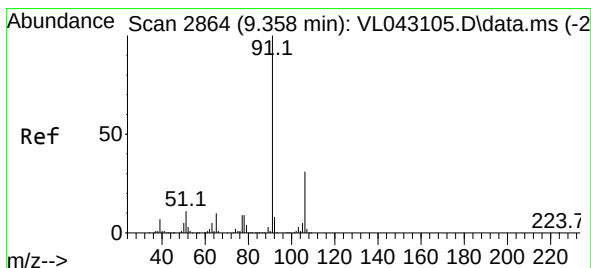
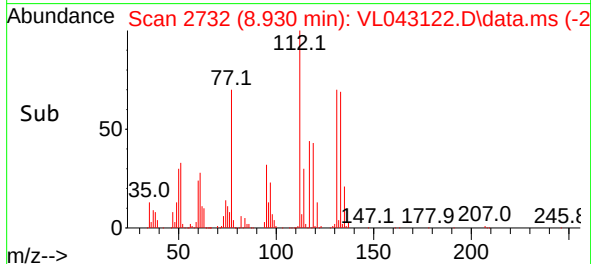
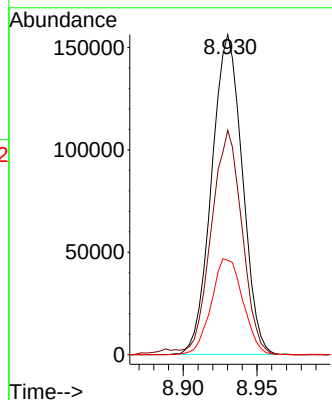
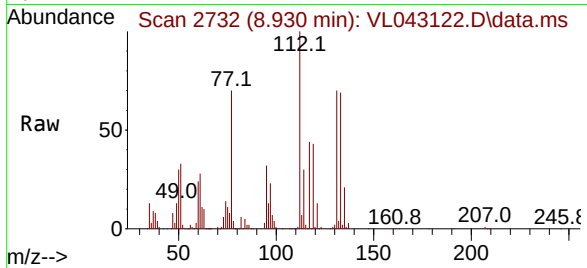
#57
Chlorobenzene
Concen: 9.261 ppbv
RT: 8.930 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

Instrument :
MSVOA_L
ClientSampleId :
VL1015ABSD01

Tgt Ion:112 Resp: 22554
Ion Ratio Lower Upper
112 100
77 70.2 53.3 79.9
114 29.5 29.3 35.8

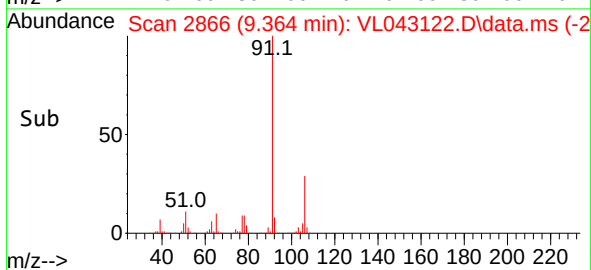
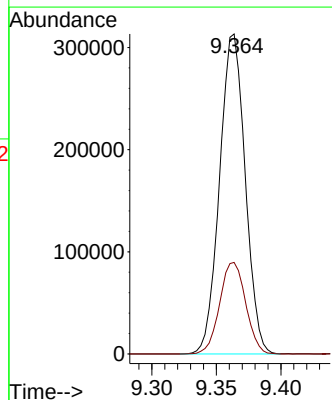
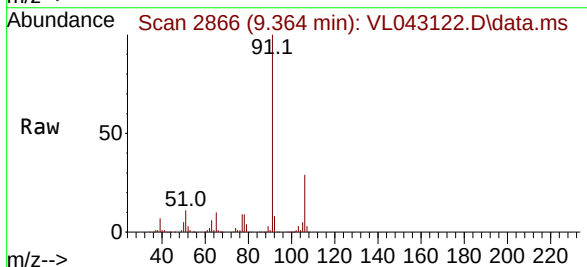
Manual Integrations
APPROVED

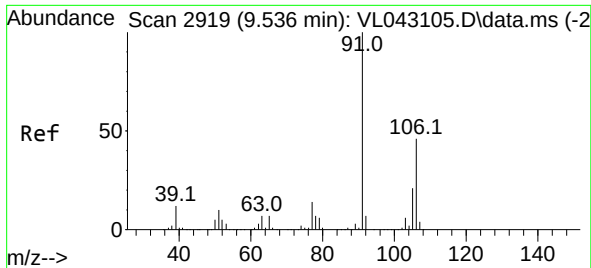
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025



#58
Ethyl Benzene
Concen: 9.672 ppbv
RT: 9.364 min Scan# 2866
Delta R.T. 0.006 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

Tgt Ion: 91 Resp: 432119
Ion Ratio Lower Upper
91 100
106 28.6 24.8 37.2





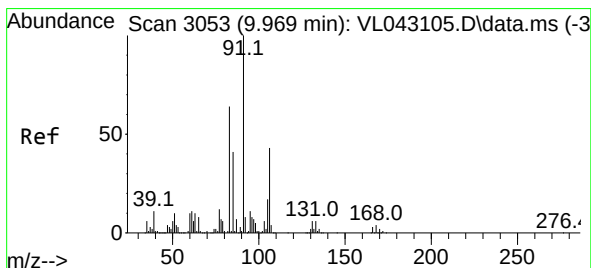
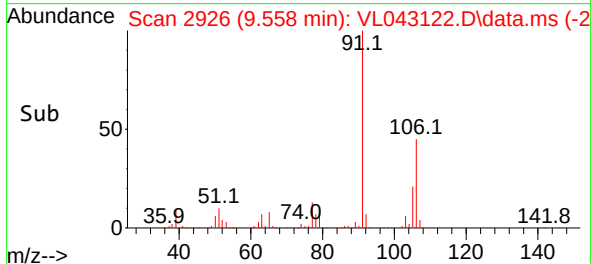
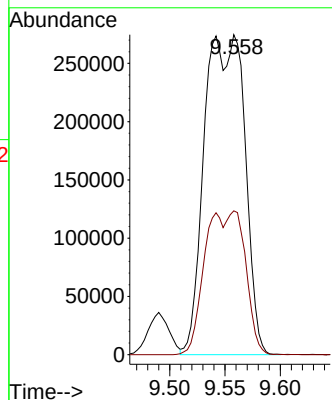
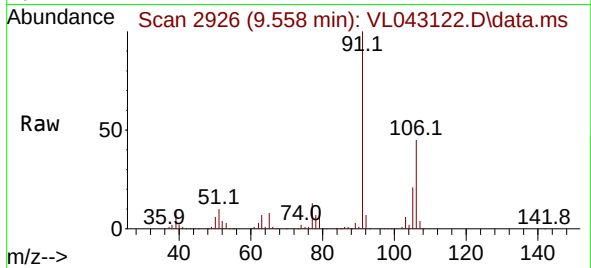
#59
m/p-Xylene
Concen: 19.591 ppbv m
RT: 9.558 min Scan# 2919
Delta R.T. 0.022 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

Instrument :
MSVOA_L
ClientSampleId :
VL1015ABSD01

Tgt Ion: 91 Resp: 698130
Ion Ratio Lower Upper
91 100
106 0.0 38.0 57.0

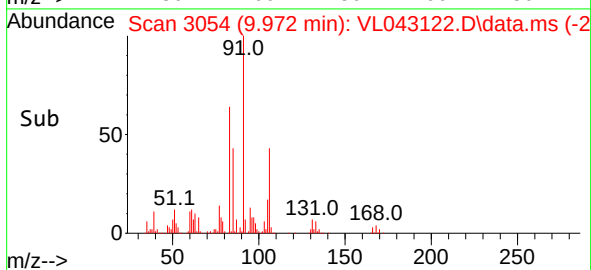
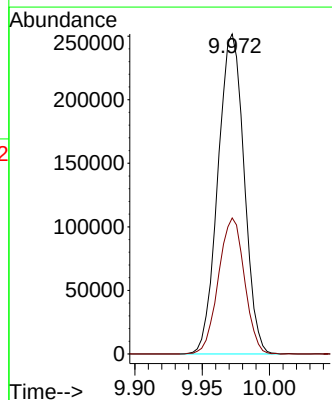
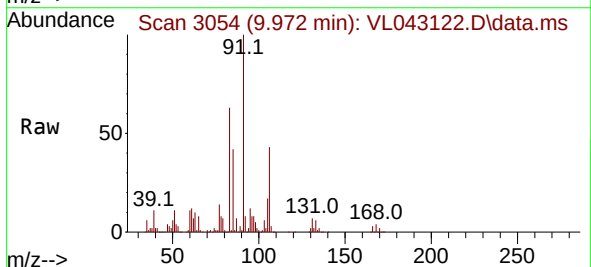
Manual Integrations
APPROVED

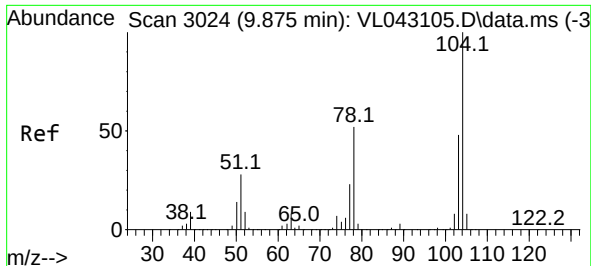
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025



#60
o-Xylene
Concen: 9.657 ppbv
RT: 9.972 min Scan# 3054
Delta R.T. 0.003 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

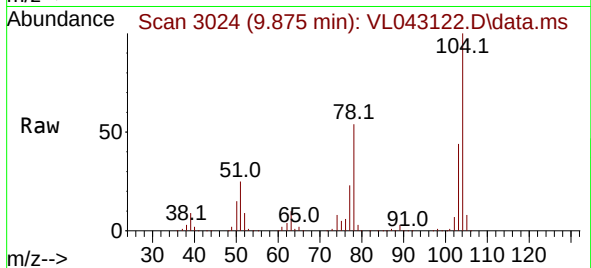
Tgt Ion: 91 Resp: 339885
Ion Ratio Lower Upper
91 100
106 42.2 21.9 65.8





#61
Styrene
Concen: 9.408 ppbv
RT: 9.875 min Scan# 3024
Delta R.T. -0.000 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

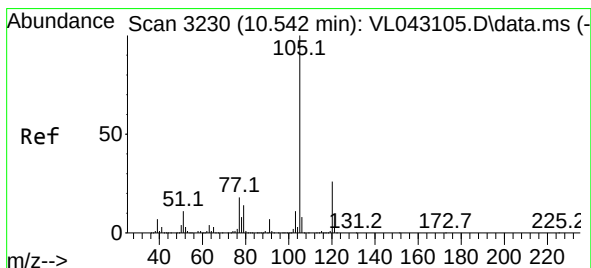
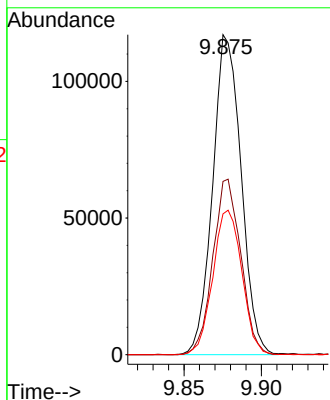
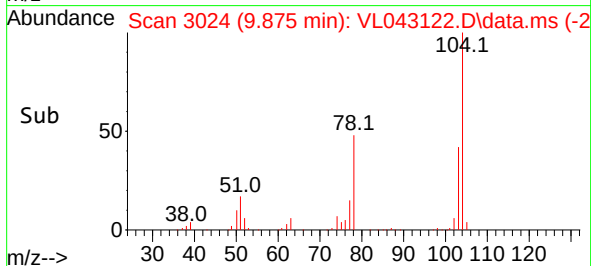
Instrument :
MSVOA_L
ClientSampleId :
VL1015ABSD01



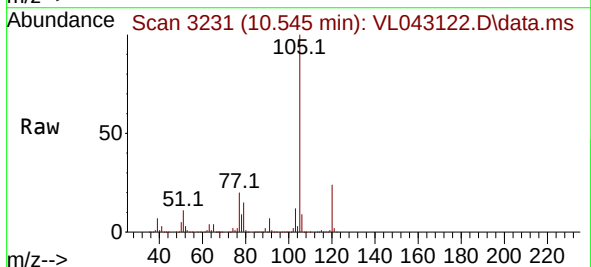
Tgt Ion:104 Resp: 149479
Ion Ratio Lower Upper
104 100
78 53.9 40.2 60.2
103 46.2 36.9 55.3

Manual Integrations
APPROVED

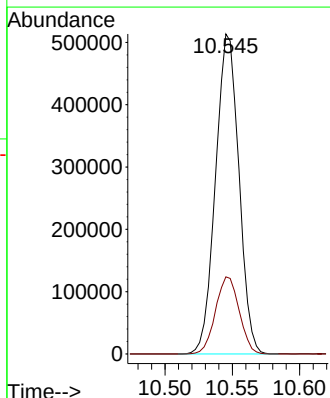
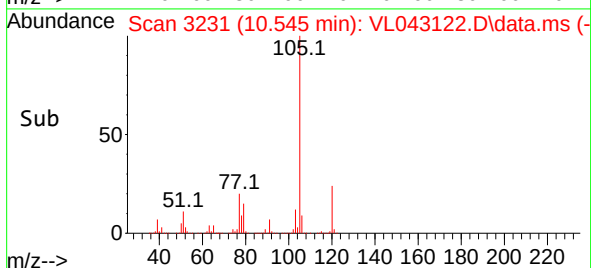
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025

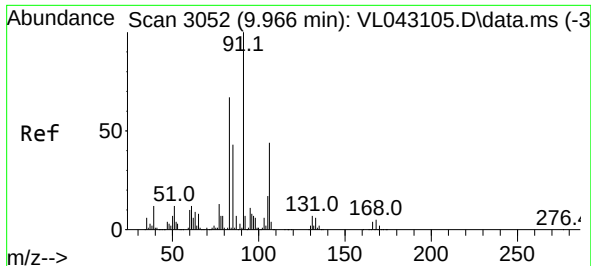


#62
Isopropylbenzene
Concen: 9.727 ppbv
RT: 10.545 min Scan# 3231
Delta R.T. 0.003 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57



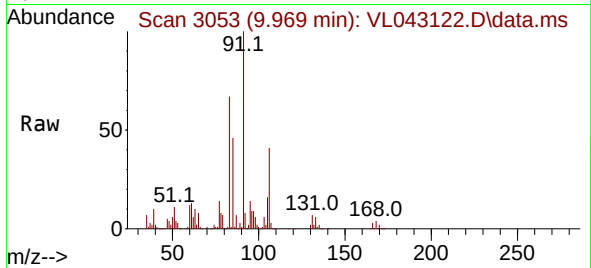
Tgt Ion:105 Resp: 618625
Ion Ratio Lower Upper
105 100
120 24.4 20.2 30.4





#63
1,1,2,2-Tetrachloroethane
Concen: 8.964 ppbv
RT: 9.969 min Scan# 3052
Delta R.T. 0.003 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

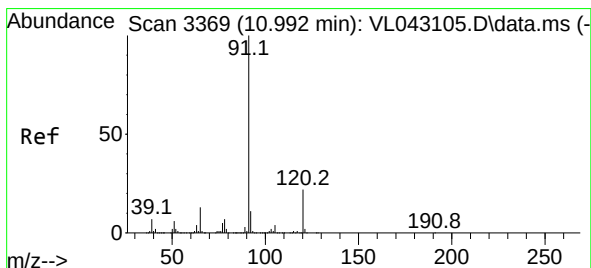
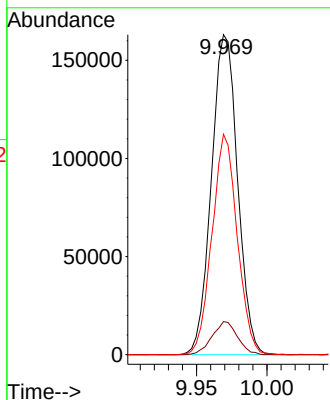
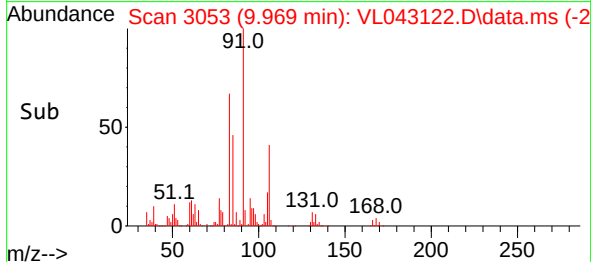
Instrument : MSVOA_L
ClientSampleId : VL1015ABSD01



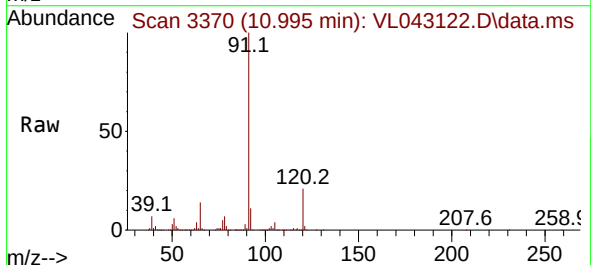
Tgt Ion: 83 Resp: 211262
Ion Ratio Lower Upper
83 100
131 10.0 4.8 14.3
85 66.3 32.0 96.0

Manual Integrations
APPROVED

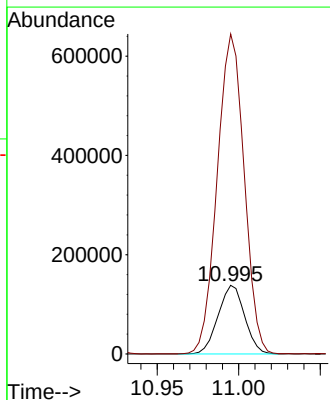
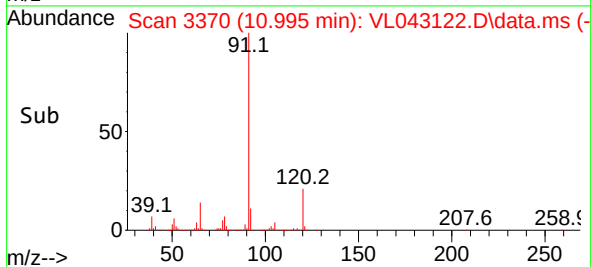
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025

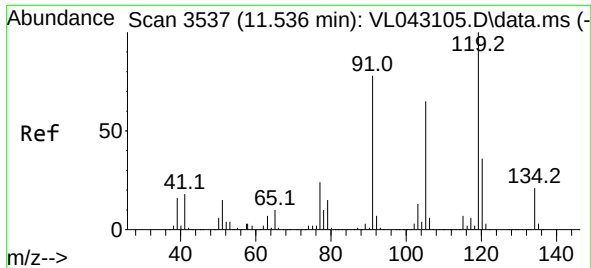


#64
n-propylbenzene
Concen: 9.273 ppbv
RT: 10.995 min Scan# 3370
Delta R.T. 0.003 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57



Tgt Ion:120 Resp: 156132
Ion Ratio Lower Upper
120 100
91 475.6 361.6 542.4





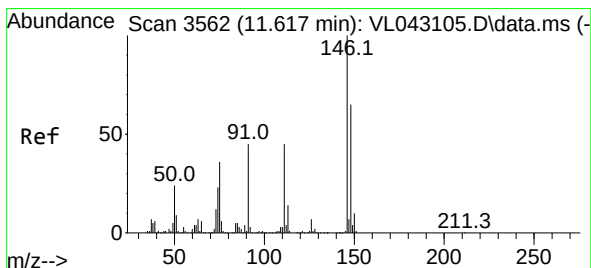
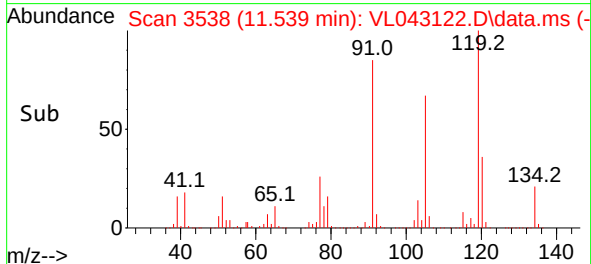
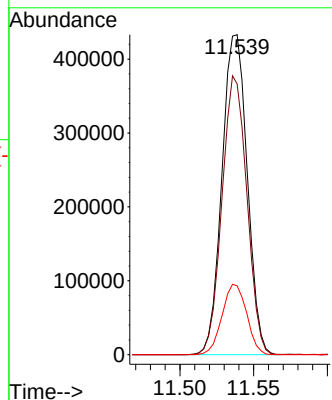
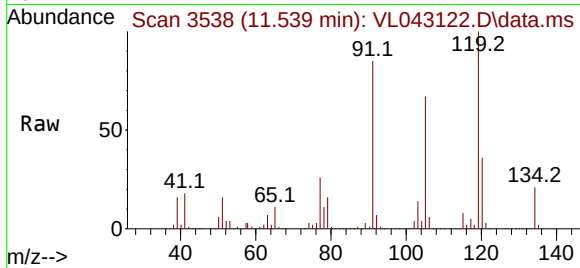
#65
tert-Butylbenzene
Concen: 9.200 ppbv
RT: 11.539 min Scan# 3537
Delta R.T. 0.003 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

Instrument :
MSVOA_L
ClientSampleId :
VL1015ABSD01

Tgt Ion:119 Resp: 51671
Ion Ratio Lower Upper
119 100
91 85.7 63.4 95.0
134 21.4 17.3 25.9

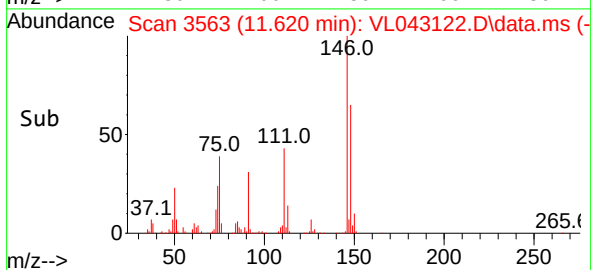
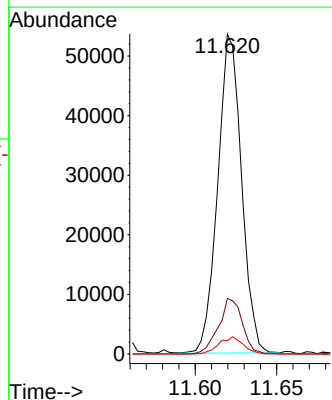
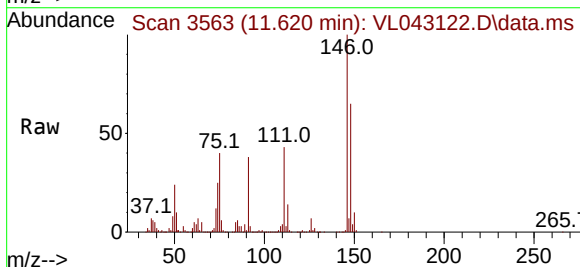
Manual Integrations
APPROVED

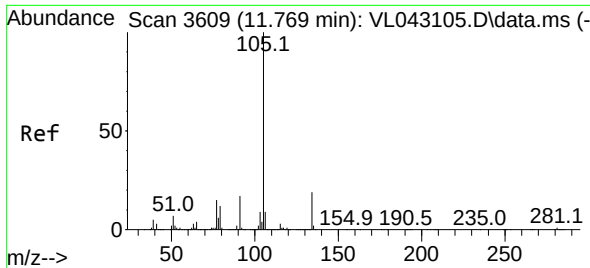
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025



#66
Benzyl Chloride
Concen: 8.686 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. 0.003 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

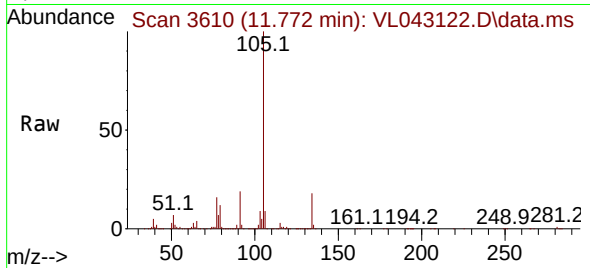
Tgt Ion: 91 Resp: 54290
Ion Ratio Lower Upper
91 100
126 17.3 14.6 22.0
128 5.5 4.6 6.8





#67
 sec-Butylbenzene
 Concen: 9.378 ppbv
 RT: 11.772 min Scan# 3610
 Delta R.T. 0.003 min
 Lab File: VL043122.D
 Acq: 15 Oct 2025 15:57

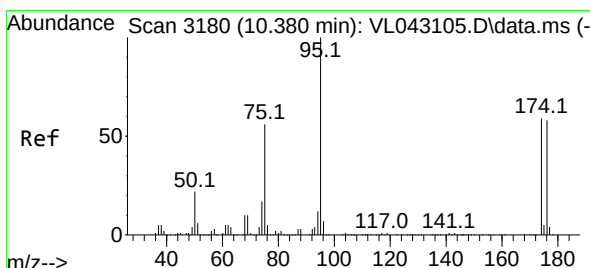
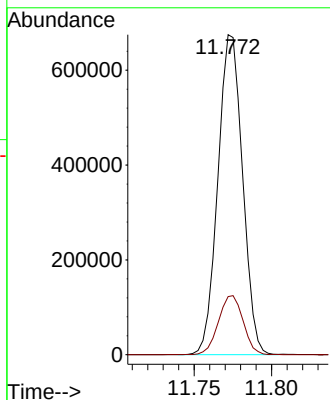
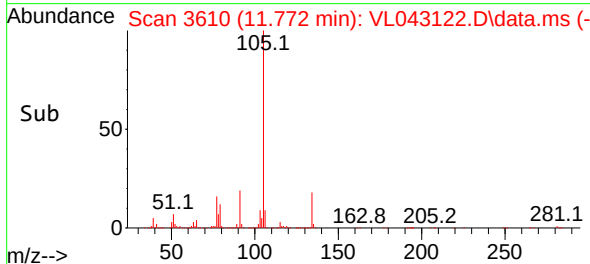
Instrument :
 MSVOA_L
 ClientSampleId :
 VL1015ABSD01



Tgt Ion:105 Resp: 747469
 Ion Ratio Lower Upper
 105 100
 134 18.5 15.5 23.3

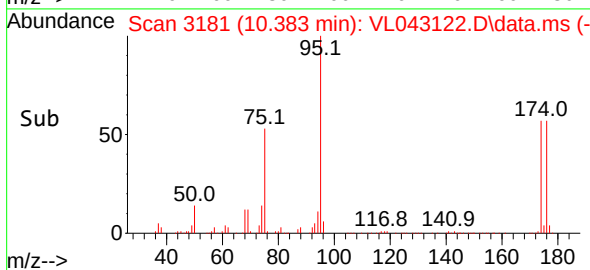
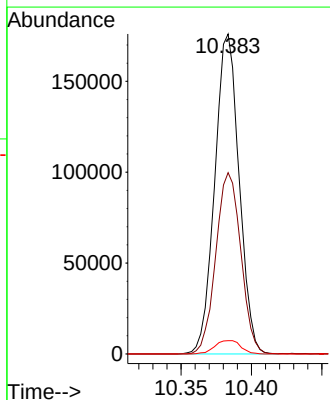
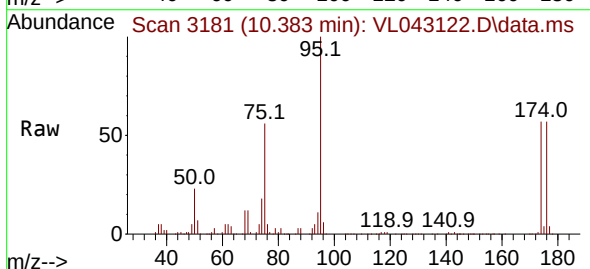
Manual Integrations
 APPROVED

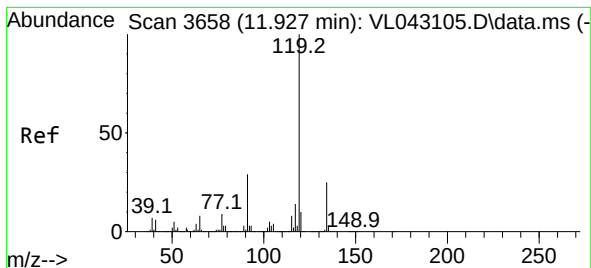
Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/17/2025



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.484 ppbv
 RT: 10.383 min Scan# 3181
 Delta R.T. 0.003 min
 Lab File: VL043122.D
 Acq: 15 Oct 2025 15:57

Tgt Ion: 95 Resp: 212144
 Ion Ratio Lower Upper
 95 100
 174 58.2 48.3 72.5
 175 4.5 3.8 5.8





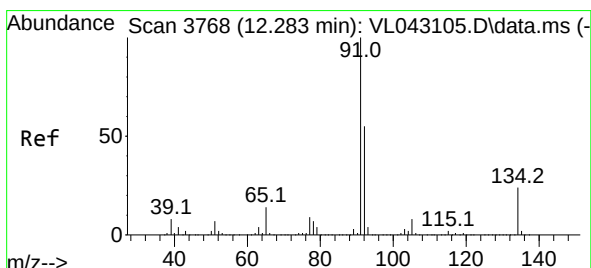
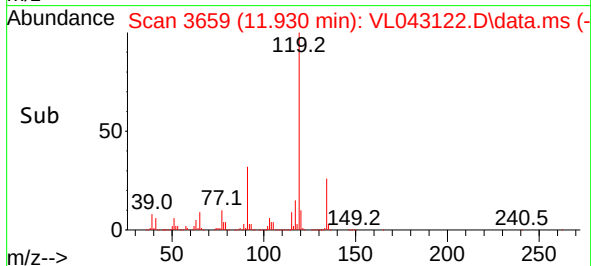
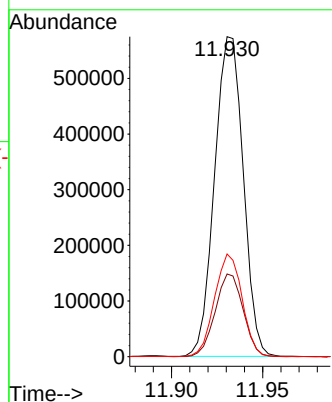
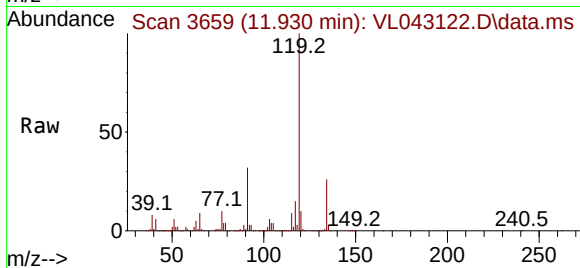
#69
p-Isopropyltoluene
Concen: 9.275 ppbv
RT: 11.930 min Scan# 3659
Delta R.T. 0.003 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

Instrument :
MSVOA_L
ClientSampleId :
VL1015ABSD01

Tgt Ion: 119 Resp: 628190
Ion Ratio Lower Upper
119 100
134 25.4 20.3 30.5
91 31.0 22.6 33.8

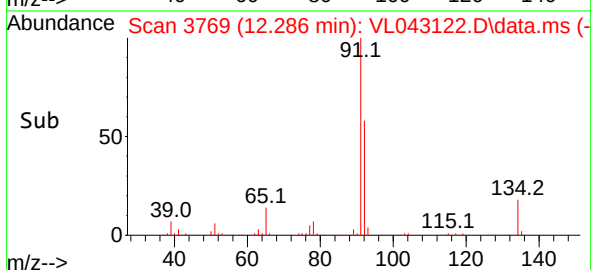
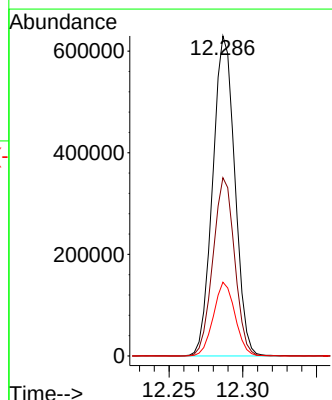
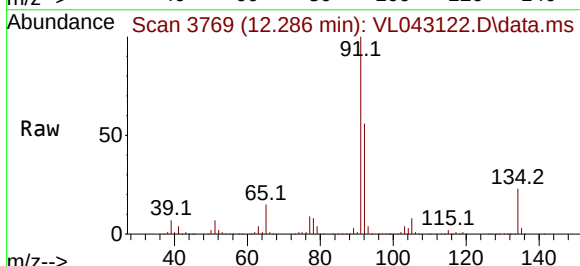
Manual Integrations
APPROVED

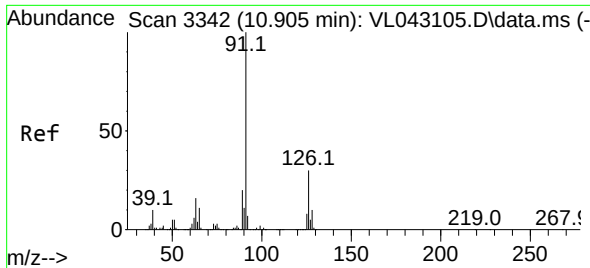
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025



#70
n-Butylbenzene
Concen: 9.843 ppbv
RT: 12.286 min Scan# 3769
Delta R.T. 0.003 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

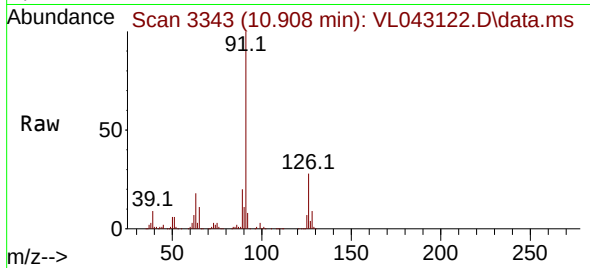
Tgt Ion: 91 Resp: 656970
Ion Ratio Lower Upper
91 100
92 54.6 44.5 66.7
134 22.5 19.3 28.9





#71
2-Chlorotoluene
Concen: 9.800 ppbv
RT: 10.908 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

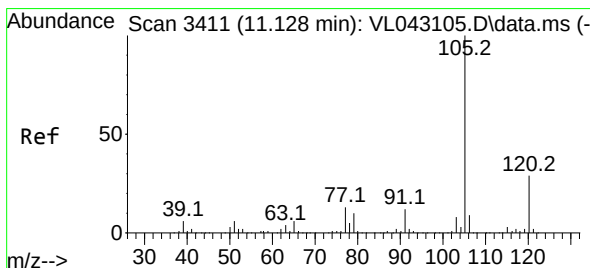
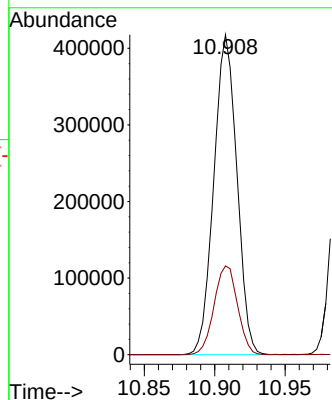
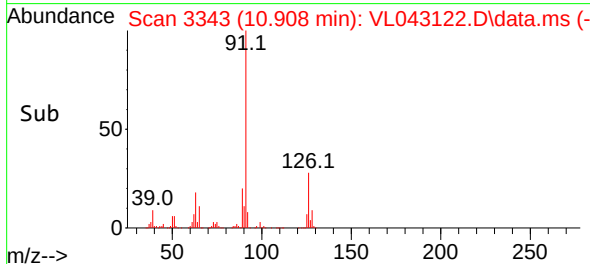
Instrument :
MSVOA_L
ClientSampleId :
VL1015ABSD01



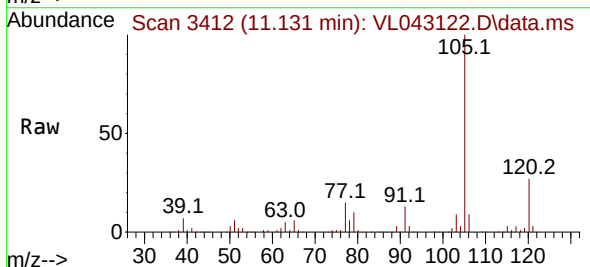
Tgt Ion: 91 Resp: 475350
Ion Ratio Lower Upper
91 100
126 28.3 12.0 48.0

Manual Integrations
APPROVED

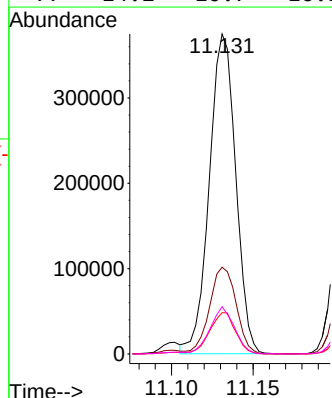
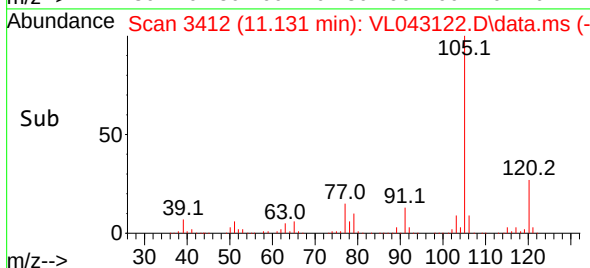
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025

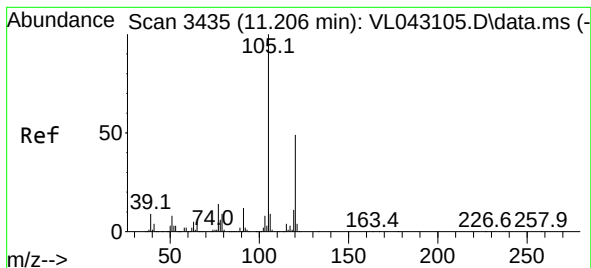


#72
4-Ethyltoluene
Concen: 9.743 ppbv
RT: 11.131 min Scan# 3412
Delta R.T. 0.003 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57



Tgt Ion:105 Resp: 421655
Ion Ratio Lower Upper
105 100
120 28.5 24.2 36.4
91 13.2 10.0 15.0
77 14.2 10.7 16.1





#73

1,3,5-Trimethylbenzene

Concen: 9.818 ppbv

RT: 11.209 min Scan# 3435

Delta R.T. 0.003 min

Lab File: VL043122.D

Acq: 15 Oct 2025 15:57

Instrument :

MSVOA_L

ClientSampleId :

VL1015ABSD01

Tgt Ion:105 Resp: 350402

Ion Ratio Lower Upper

105 100

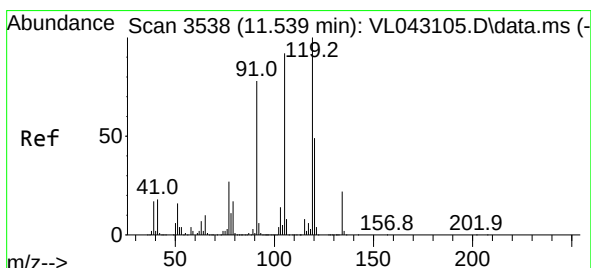
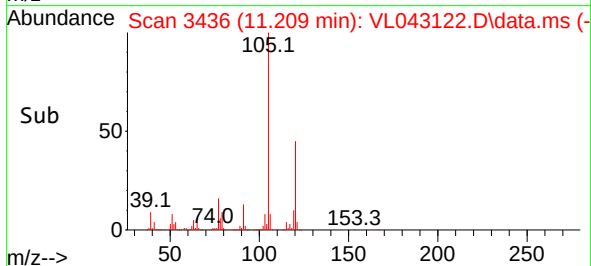
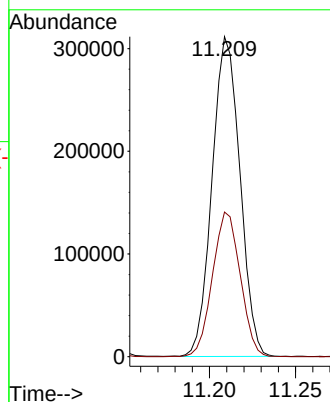
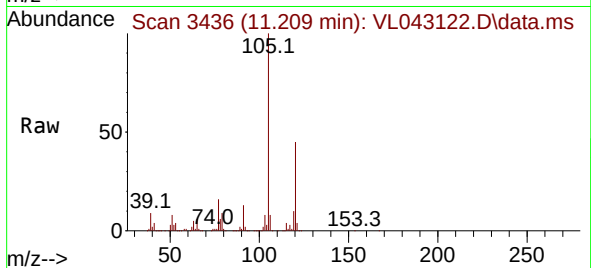
120 45.2 39.0 58.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/17/2025



#74

1,2,4-Trimethylbenzene

Concen: 9.429 ppbv

RT: 11.542 min Scan# 3539

Delta R.T. 0.003 min

Lab File: VL043122.D

Acq: 15 Oct 2025 15:57

Tgt Ion:105 Resp: 376592

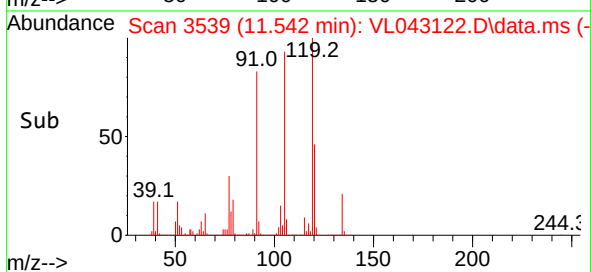
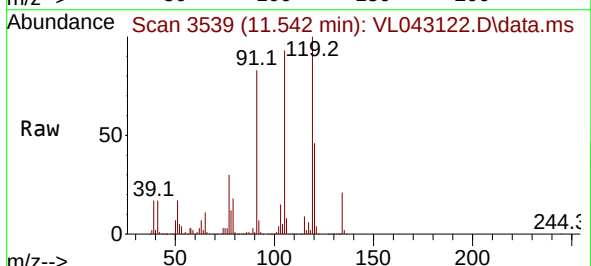
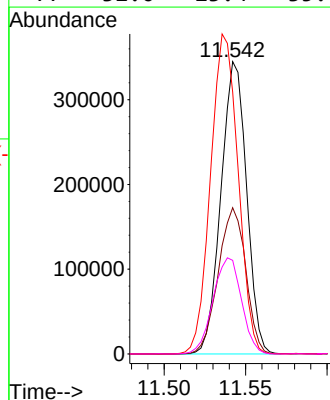
Ion Ratio Lower Upper

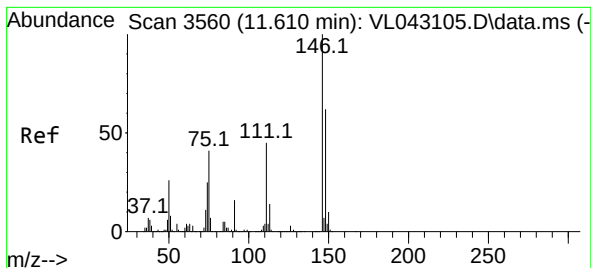
105 100

120 50.0 42.8 64.2

91 89.5 68.3 102.5

77 32.0 23.4 35.0





#75

1,3-Dichlorobenzene

Concen: 9.519 ppbv

RT: 11.613 min Scan# 3560

Delta R.T. 0.003 min

Lab File: VL043122.D

Acq: 15 Oct 2025 15:57

Instrument :

MSVOA_L

ClientSampleId :

VL1015ABSD01

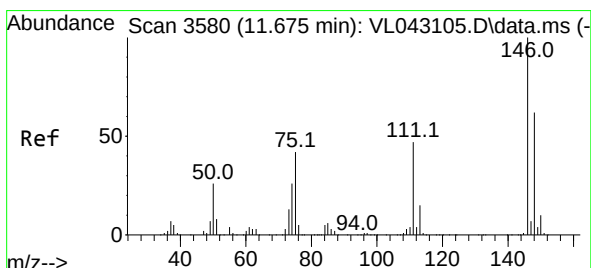
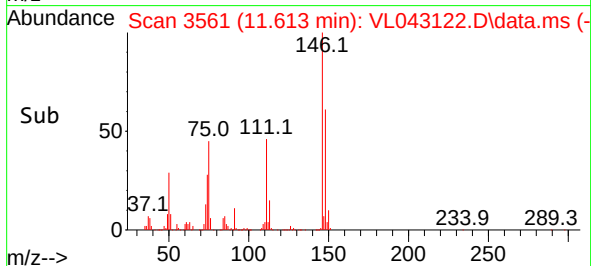
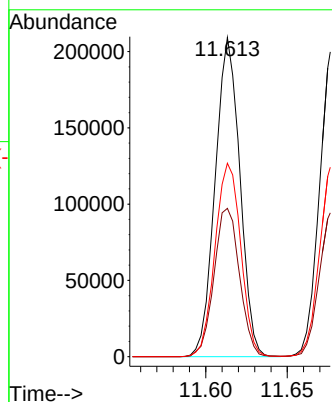
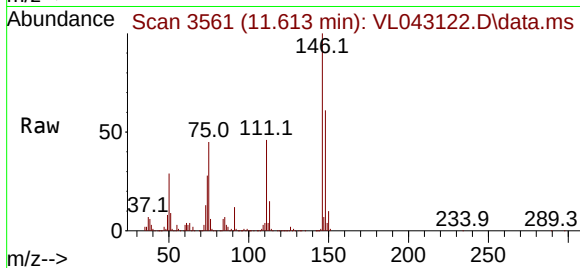
Tgt Ion:146 Resp: 220504

Ion	Ratio	Lower	Upper
146	100		
111	48.1	23.3	69.9
148	63.0	31.6	95.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025



#76

1,4-Dichlorobenzene

Concen: 9.438 ppbv

RT: 11.678 min Scan# 3581

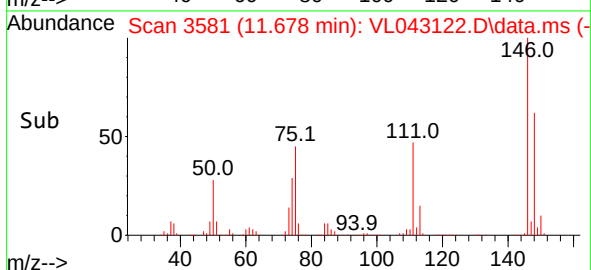
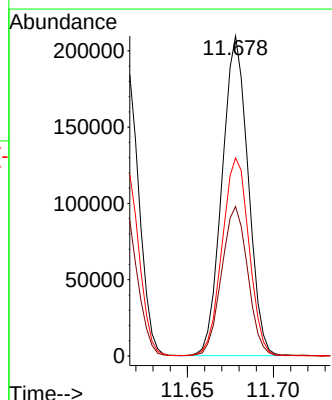
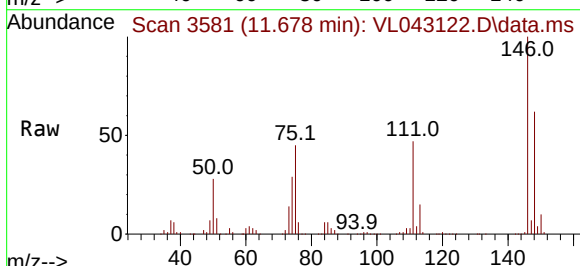
Delta R.T. 0.003 min

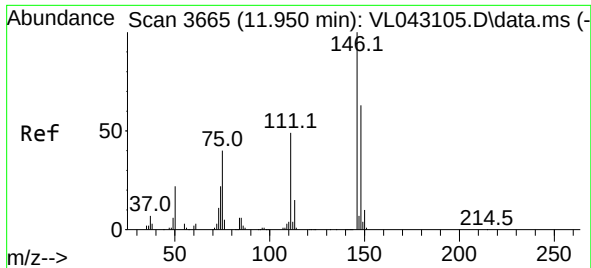
Lab File: VL043122.D

Acq: 15 Oct 2025 15:57

Tgt Ion:146 Resp: 220451

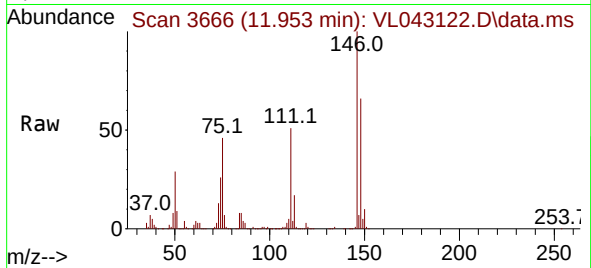
Ion	Ratio	Lower	Upper
146	100		
111	47.2	22.4	67.0
148	64.4	31.6	94.7





#77
1,2-Dichlorobenzene
Concen: 9.182 ppbv
RT: 11.953 min Scan# 30
Delta R.T. 0.003 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

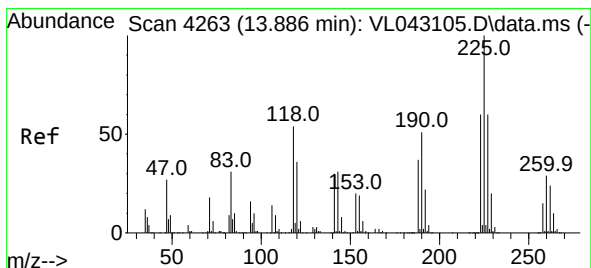
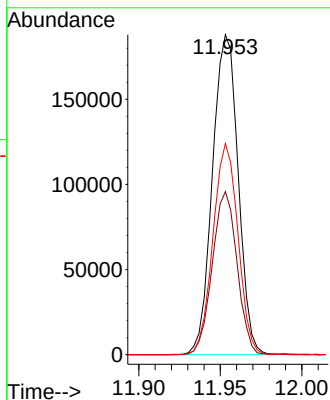
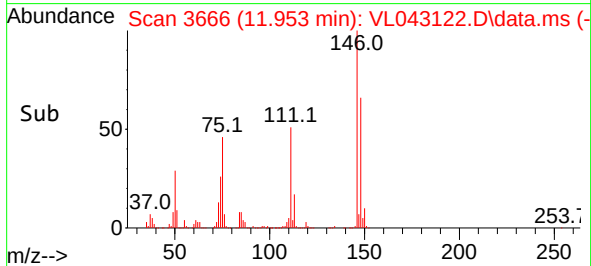
Instrument :
MSVOA_L
ClientSampleId :
VL1015ABSD01



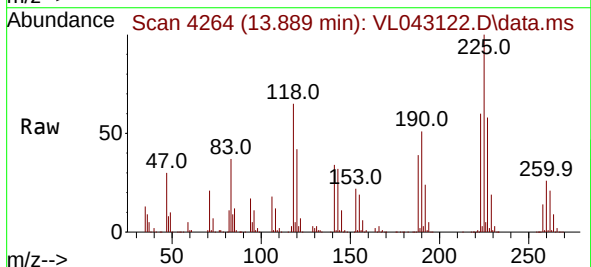
Tgt Ion:146 Resp: 20575
Ion Ratio Lower Upper
146 100
111 49.2 24.0 72.0
148 64.3 31.1 93.3

Manual Integrations
APPROVED

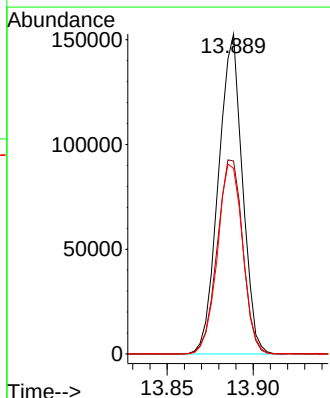
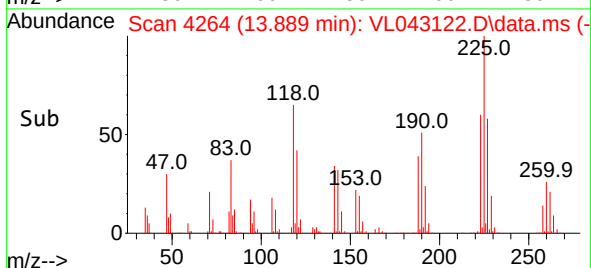
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025

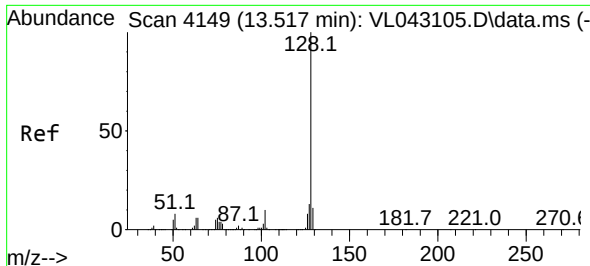


#78
Hexachloro-1,3-Butadiene
Concen: 8.533 ppbv
RT: 13.889 min Scan# 4264
Delta R.T. 0.003 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57



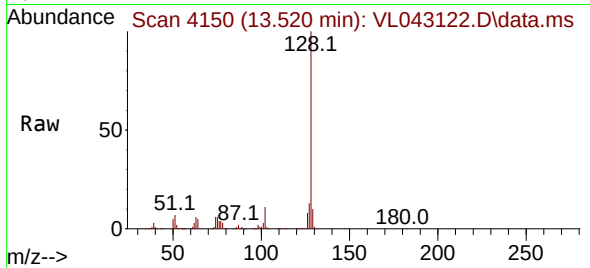
Tgt Ion:225 Resp: 148058
Ion Ratio Lower Upper
225 100
223 64.6 50.2 75.4
227 62.8 49.6 74.4





#79
Naphthalene
Concen: 10.128 ppbv
RT: 13.520 min Scan# 4149
Delta R.T. 0.003 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

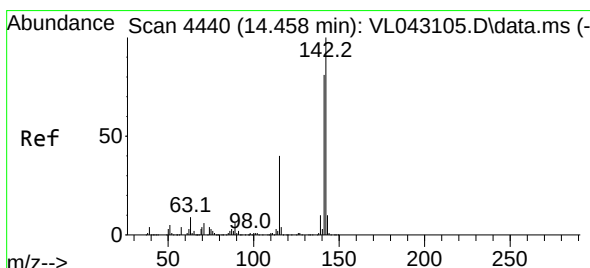
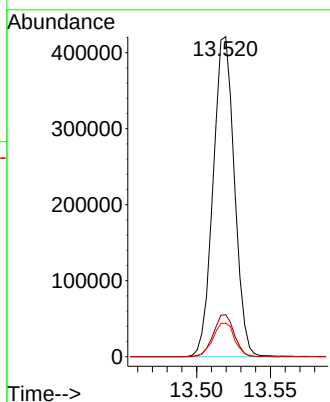
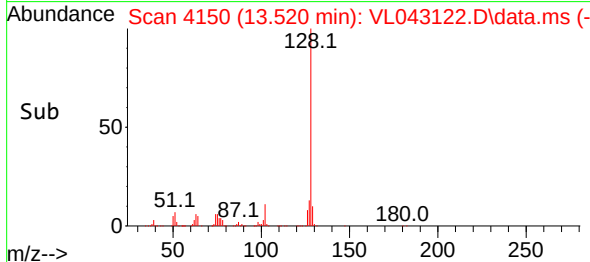
Instrument :
MSVOA_L
ClientSampleId :
VL1015ABSD01



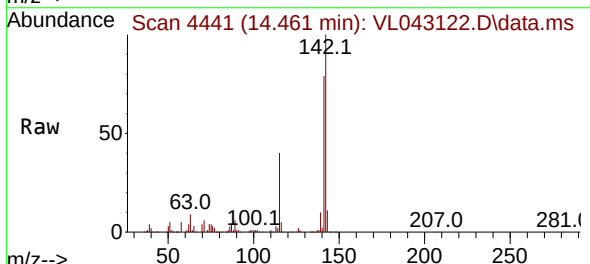
Tgt Ion:128 Resp: 422818
Ion Ratio Lower Upper
128 100
127 13.1 10.5 15.7
129 10.5 9.1 13.7

Manual Integrations
APPROVED

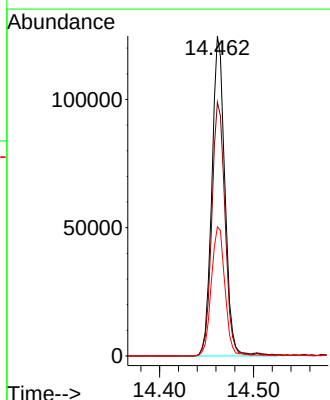
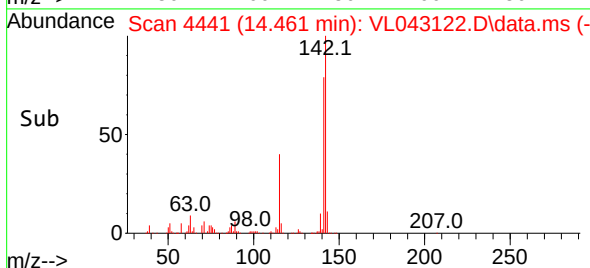
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/17/2025

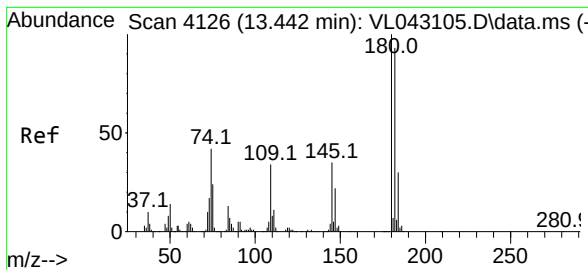


#80
Naphthalene,2-methyl-
Concen: 11.049 ppbv
RT: 14.461 min Scan# 4441
Delta R.T. 0.003 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57



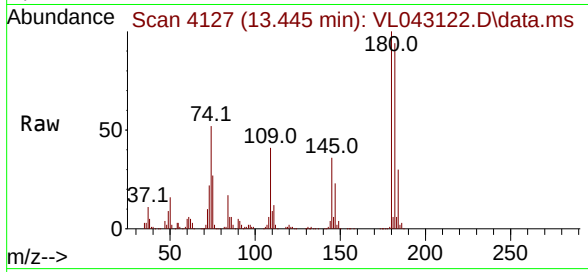
Tgt Ion:142 Resp: 120171
Ion Ratio Lower Upper
142 100
141 81.9 64.6 97.0
115 42.5 30.2 45.4





#81
 1,2,4-Trichlorobenzene
 Concen: 9.717 ppbv
 RT: 13.445 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL043122.D
 Acq: 15 Oct 2025 15:57

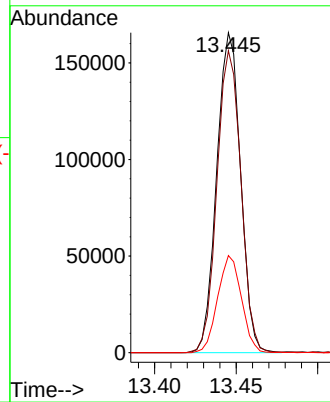
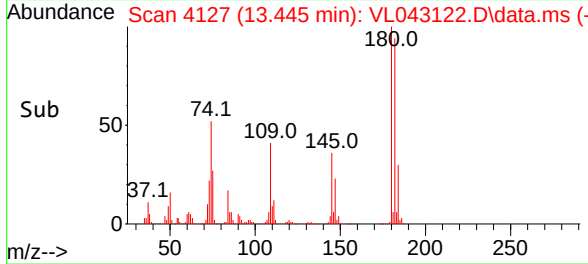
Instrument :
 MSVOA_L
 ClientSampleId :
 VL1015ABSD01



Tgt Ion:180 Resp: 168360
 Ion Ratio Lower Upper
 180 100
 182 95.2 75.5 113.3
 184 30.3 23.9 35.9

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
 Supervised By :Mahesh Dadoda 10/17/2025



Manual Integration Report

Sequence:	VL101425	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC010	VL043105.D	m/p-Xylene	sam	10/16/2025 4:38:08 AM	MMdadoda	10/16/2025 4:40:57 AM	Peak Integrated by Software
VSTDICCC002	VL043106.D	1,4-Dioxane	sam	10/16/2025 4:38:12 AM	MMdadoda	10/16/2025 4:41:02 AM	Peak Integrated by Software
VSTDICCC002	VL043106.D	cis-1,3-Dichloropropene	sam	10/16/2025 4:38:12 AM	MMdadoda	10/16/2025 4:41:02 AM	Peak Integrated by Software
VSTDICCC002	VL043106.D	m/p-Xylene	sam	10/16/2025 4:38:12 AM	MMdadoda	10/16/2025 4:41:02 AM	Peak Integrated by Software
VSTDICCC001	VL043107.D	1,4-Dioxane	sam	10/16/2025 4:38:18 AM	MMdadoda	10/16/2025 4:41:06 AM	Peak Integrated by Software
VSTDICCC001	VL043107.D	4-Methyl-2-Pentanone	sam	10/16/2025 4:38:18 AM	MMdadoda	10/16/2025 4:41:06 AM	Peak Integrated by Software
VSTDICCC001	VL043107.D	m/p-Xylene	sam	10/16/2025 4:38:18 AM	MMdadoda	10/16/2025 4:41:06 AM	Peak Integrated by Software
VSTDICCC001	VL043107.D	t-1,3-Dichloropropene	sam	10/16/2025 4:38:18 AM	MMdadoda	10/16/2025 4:41:06 AM	Peak Integrated by Software
VSTDICCC0.5	VL043108.D	1,4-Dioxane	sam	10/16/2025 4:38:22 AM	MMdadoda	10/16/2025 4:41:10 AM	Peak Integrated by Software
VSTDICCC0.5	VL043108.D	2,2,4-Trimethylpentane	sam	10/16/2025 4:38:22 AM	MMdadoda	10/16/2025 4:41:10 AM	Peak Integrated by Software
VSTDICCC0.5	VL043108.D	4-Methyl-2-Pentanone	sam	10/16/2025 4:38:22 AM	MMdadoda	10/16/2025 4:41:10 AM	Peak Integrated by Software
VSTDICCC0.5	VL043108.D	cis-1,3-Dichloropropene	sam	10/16/2025 4:38:22 AM	MMdadoda	10/16/2025 4:41:10 AM	Peak Integrated by Software
VSTDICCC0.5	VL043108.D	Cyclohexane	sam	10/16/2025 4:38:22 AM	MMdadoda	10/16/2025 4:41:10 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL101425	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.5	VL043108.D	Heptane	sam	10/16/2025 4:38:22 AM	MMdadoda	10/16/2025 4:41:10 AM	Peak Integrated by Software
VSTDICC0.5	VL043108.D	m/p-Xylene	sam	10/16/2025 4:38:22 AM	MMdadoda	10/16/2025 4:41:10 AM	Peak Integrated by Software
VSTDICC0.5	VL043108.D	Methyl Methacrylate	sam	10/16/2025 4:38:22 AM	MMdadoda	10/16/2025 4:41:10 AM	Peak Integrated by Software
VSTDICC0.5	VL043108.D	Tetrahydrofuran	sam	10/16/2025 4:38:22 AM	MMdadoda	10/16/2025 4:41:10 AM	Peak Integrated by Software
VSTDICC0.1	VL043109.D	1,1,1-Trichloroethane	sam	10/16/2025 4:38:26 AM	MMdadoda	10/16/2025 4:41:15 AM	Peak Integrated by Software
VSTDICC0.1	VL043109.D	Carbon Tetrachloride	sam	10/16/2025 4:38:26 AM	MMdadoda	10/16/2025 4:41:15 AM	Peak Integrated by Software
VSTDICC0.1	VL043109.D	Naphthalene	sam	10/16/2025 4:38:26 AM	MMdadoda	10/16/2025 4:41:15 AM	Peak Integrated by Software
VSTDICC0.1	VL043109.D	Tetrachloroethene	sam	10/16/2025 4:38:26 AM	MMdadoda	10/16/2025 4:41:15 AM	Peak Integrated by Software
VSTDICC0.1	VL043109.D	Trichloroethene	sam	10/16/2025 4:38:26 AM	MMdadoda	10/16/2025 4:41:15 AM	Peak Integrated by Software
VSTDICC0.03	VL043110.D	1,1,1-Trichloroethane	sam	10/16/2025 4:38:31 AM	MMdadoda	10/16/2025 4:41:20 AM	Peak Integrated by Software
VSTDICC0.03	VL043110.D	1,1,2,2-Tetrachloroethane	sam	10/16/2025 4:38:31 AM	MMdadoda	10/16/2025 4:41:20 AM	Peak Integrated by Software
VSTDICC0.03	VL043110.D	Carbon Tetrachloride	sam	10/16/2025 4:38:31 AM	MMdadoda	10/16/2025 4:41:20 AM	Peak Integrated by Software
VSTDICC0.03	VL043110.D	Tetrachloroethene	sam	10/16/2025 4:38:31 AM	MMdadoda	10/16/2025 4:41:20 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL101425	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.03	VL043110.D	Trichloroethene	sam	10/16/2025 4:38:31 AM	MMdadoda	10/16/2025 4:41:20 AM	Peak Integrated by Software
VSTDICC015	VL043111.D	m/p-Xylene	sam	10/16/2025 4:38:35 AM	MMdadoda	10/16/2025 4:41:24 AM	Peak Integrated by Software
VSTDICV010	VL043112.D	Ethanol	sam	10/16/2025 4:38:41 AM	MMdadoda	10/16/2025 4:41:28 AM	Peak Integrated by Software
VSTDICV010	VL043112.D	m/p-Xylene	sam	10/16/2025 4:38:41 AM	MMdadoda	10/16/2025 4:41:28 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL101525	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL043114.D	m/p-Xylene	sam	10/16/2025 9:29:00 AM	MMDadoda	10/17/2025 3:43:23 PM	Peak Integrated by Software
VL1015ABS01	VL043116.D	m/p-Xylene	sam	10/16/2025 9:29:03 AM	MMDadoda	10/17/2025 3:43:27 PM	Peak Integrated by Software
VL1015ABSD0 1	VL043122.D	m/p-Xylene	sam	10/16/2025 9:29:29 AM	MMDadoda	10/17/2025 3:43:34 PM	Peak Integrated by Software

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL101425

Review By	Semsettin Yesilyurt	Review On	10/14/2025 2:02:14 PM		
Supervise By	Maresh Dadoda	Supervise On	10/16/2025 4:41:37 AM		
SubDirectory	VL101425	HP Acquire Method	TO15AIR	HP Processing Method	VL101425AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2684			
Initial Calibration Stds		AP2687,AP2688,AP2689			
CCC		AP2687			
Internal Standard/PEM		AP2684			
ICV/I.BLK		AP2690			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL043103.D	14 Oct 2025 08:42	SY/MD	Ok
2	VSTDIC0.5	VL043104.D	14 Oct 2025 09:57	SY/MD	Not Ok
3	VSTDICCC010	VL043105.D	14 Oct 2025 10:31	SY/MD	Ok,M
4	VSTDIC002	VL043106.D	14 Oct 2025 11:27	SY/MD	Ok,M
5	VSTDIC001	VL043107.D	14 Oct 2025 12:01	SY/MD	Ok,M
6	VSTDIC0.5	VL043108.D	14 Oct 2025 12:34	SY/MD	Ok,M
7	VSTDIC0.1	VL043109.D	14 Oct 2025 13:08	SY/MD	Ok,M
8	VSTDIC0.03	VL043110.D	14 Oct 2025 13:42	SY/MD	Ok,M
9	VSTDIC015	VL043111.D	14 Oct 2025 14:18	SY/MD	Ok,M
10	VSTDICV010	VL043112.D	14 Oct 2025 14:51	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL101525

Review By	Semsettin Yesilyurt	Review On	10/17/2025 11:22:25 AM		
Supervise By	Maresh Dadoda	Supervise On	10/17/2025 3:43:39 PM		
SubDirectory	VL101525	HP Acquire Method	TO15AIR	HP Processing Method	VL101425AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2684			
Initial Calibration Stds		AP2687,AP2688,AP2689			
CCC		AP2687			
Internal Standard/PEM		AP2684			
ICV/I.BLK		AP2690			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL043113.D	15 Oct 2025 07:45	SY/MD	Ok
2	VSTDCCC010	VL043114.D	15 Oct 2025 08:43	SY/MD	Ok,M
3	VL1015ABL01	VL043115.D	15 Oct 2025 09:34	SY/MD	Ok
4	VL1015ABS01	VL043116.D	15 Oct 2025 10:15	SY/MD	Ok,M
5	Q3247-01	VL043117.D	15 Oct 2025 10:50	SY/MD	Dilution
6	VIBLK	VL043118.D	15 Oct 2025 11:39	SY/MD	Ok
7	Q3247-01DL	VL043119.D	15 Oct 2025 12:12	SY/MD	Ok
8	Q3247-01DL	VL043120.D	15 Oct 2025 12:45	SY/MD	Not Ok
9	Q3247-01DL2	VL043121.D	15 Oct 2025 15:11	SY/MD	Not Ok
10	VL1015ABSD01	VL043122.D	15 Oct 2025 15:57	SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL101425

Review By	Semsettin Yesilyurt	Review On	10/14/2025 2:02:14 PM
Supervise By	Maresh Dadoda	Supervise On	10/16/2025 4:41:37 AM
SubDirectory	VL101425	HP Acquire Method	TO15AIR
		HP Processing Method	VL101425AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2684
Initial Calibration Stds	AP2687,AP2688,AP2689
CCC	AP2687
Internal Standard/PEM	AP2684
ICV/I.BLK	AP2690
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	Sampled	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL043103.D	14 Oct 2025 08:42		SY/MD	Ok
2	VSTDICC0.5	VSTDICC0.5	VL043104.D	14 Oct 2025 09:57	not use	SY/MD	Not Ok
3	VSTDICCC010	VSTDICCC010	VL043105.D	14 Oct 2025 10:31		SY/MD	Ok,M
4	VSTDICC002	VSTDICC002	VL043106.D	14 Oct 2025 11:27		SY/MD	Ok,M
5	VSTDICC001	VSTDICC001	VL043107.D	14 Oct 2025 12:01		SY/MD	Ok,M
6	VSTDICC0.5	VSTDICC0.5	VL043108.D	14 Oct 2025 12:34		SY/MD	Ok,M
7	VSTDICC0.1	VSTDICC0.1	VL043109.D	14 Oct 2025 13:08		SY/MD	Ok,M
8	VSTDICC0.03	VSTDICC0.03	VL043110.D	14 Oct 2025 13:42		SY/MD	Ok,M
9	VSTDICC015	VSTDICC015	VL043111.D	14 Oct 2025 14:18		SY/MD	Ok,M
10	VSTDICV010	ICVVL101425	VL043112.D	14 Oct 2025 14:51		SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL101525

Review By	Semsettin Yesilyurt	Review On	10/17/2025 11:22:25 AM
Supervise By	Maresh Dadoda	Supervise On	10/17/2025 3:43:39 PM
SubDirectory	VL101525	HP Acquire Method	TO15AIR
		HP Processing Method	VL101425AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2684
Initial Calibration Stds	AP2687,AP2688,AP2689
CCC	AP2687
Internal Standard/PEM	AP2684
ICV/I.BLK	AP2690
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL043113.D	15 Oct 2025 07:45		SY/MD	Ok
2	VSTDCCC010	VSTDCCC010	VL043114.D	15 Oct 2025 08:43		SY/MD	Ok,M
3	VL1015ABL01	VL1015ABL01	VL043115.D	15 Oct 2025 09:34		SY/MD	Ok
4	VL1015ABS01	VL1015ABS01	VL043116.D	15 Oct 2025 10:15		SY/MD	Ok,M
5	Q3247-01	RR-VOAS-AIR	VL043117.D	15 Oct 2025 10:50	Need 2X	SY/MD	Dilution
6	VIBLK	VIBLK	VL043118.D	15 Oct 2025 11:39		SY/MD	Ok
7	Q3247-01DL	RR-VOAS-AIRDL	VL043119.D	15 Oct 2025 12:12		SY/MD	Ok
8	Q3247-01DL	RR-VOAS-AIRDL	VL043120.D	15 Oct 2025 12:45	Need further dilution	SY/MD	Not Ok
9	Q3247-01DL2	RR-VOAS-AIRDL2	VL043121.D	15 Oct 2025 15:11	Not Required	SY/MD	Not Ok
10	VL1015ABSD01	VL1015ABSD01	VL043122.D	15 Oct 2025 15:57		SY/MD	Ok,M

M : Manual Integration

Prep Standard - Chemical Standard Summary

Order ID : Q3247

Test : VOCMS Group3

Prepbatch ID :

Sequence ID/Qc Batch ID: VL101525,

Standard ID :

AP2684,AP2687,AP2688,AP2689,AP2690,

Chemical ID :

A1117,A1138,A1142,A1143,

Air STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
47	Internal Standard/Surrogate Mix-80 ppbv	AP2684	10/14/2025	11/14/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								11/03/2025

FROM 2.40000psi of A1138 + 27.60000psi of A1117 = Final Quantity: 30.000 psi

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2396	TO-15 15 PPBV CAL MIX	AP2687	10/14/2025	11/14/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								11/03/2025

FROM 1455.00000SCCM of A1117 + 45.00000SCCM of A1142 = Final Quantity: 30.000 psi

Air STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2397	TO-15 -2 PPBV CAL.MIX	AP2688	10/14/2025	11/14/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
11/03/2025								

FROM 26.00000psi of A1117 + 4.00000psi of AP2687 = Final Quantity: 30.000 psi

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2668	0.5 PPBV CAL.MIX	AP2689	10/14/2025	11/14/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
11/03/2025								

FROM 29.00000psi of A1117 + 1.00000psi of AP2687 = Final Quantity: 30.000 psi



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2396	TO-15 15 PPBV CAL MIX	AP2690	10/14/2025	11/14/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 11/03/2025
<u>FROM</u>	1455.00000SCCM of A1117 + 45.00000SCCM of A1143 = Final Quantity: 30.000 psi							

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
AIR LIQUIDE	365A-49 / AIR, Compressed	90402401186-01	04/01/2026	04/01/2022 / apatel	04/01/2022 / SAM	A1117

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CUSTOMGAS Solutions	TB500009-110 / TO-15 Internal Standard/Surrogate Standard	BC275465	12/16/2025	07/15/2025 / SAM	07/14/2025 / SAM	A1138

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CUSTOMGAS Solutions	TO15-80-6R-07092 / TO-15 Modified (80 comp) in Nitrogen (addition of 2-methylnaphthalene)	051925-001A	10/01/2026	10/13/2025 / sam	10/13/2025 / sam	A1142

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)	051925-001B	10/01/2026	10/13/2025 / sam	10/13/2025 / sam	A1143

CUSTOMGAS SOLUTIONS



1750 East Club Boulevard
Durham, NC 27704
Phone: (919) 220-2570
Fax: (919) 220-4540

rec: 07/14/25
A 1138

Certificate of Analysis

Customer:

Chem Tech
284 Sheffield Street
Mountainside, NJ 07092

Tel: (908) 789-8900

Cylinder Number: BC275465
Cylinder Size/CGA: 170/180SS
Fill Pressure: 1815 PSIA
Gas Volume: ~170 liters
Date of Mfg: 07/16/2024
Expiration Date: 012/16/2025

Ship To : Chem Tech
284 Sheffield Street
Mountainside, NJ 07092

Customer Number	Ship VIA	Job No.	Customer PO	Mixture Type
00107092NJ	Best Way	040424-003	240404-10	Gravimetric

Component	Nominal Concentration	Actual Concentration*	Mixture Type
Bromochloromethane	1 ppm	1.014 ppm +/- 0.02 ppm	Gravimetric Master Gas
4-Bromofluorobenzene	1 ppm	1.008 ppm +/- 0.02 ppm	
Chlorobenzene-D5	1 ppm	0.993 ppm +/- 0.02 ppm	
1,4-Difluorobenzene	1 ppm	0.979 ppm +/- 0.02 ppm	
Nitrogen	balance	balance	

NOTES: Blend Tolerance:

+/- 10 %

Analytical Tolerance:

+/- 5 %

Traceability:

NIST by weight set. NIST Traceability No MT001810.

Internal Standards by analysis

Reactive Mixtures:

Analyzed twice with required agreement between analyses of 2%.

Required wait time between analyses of >7 days.

Caution:

Do not use below 150 PSIG.

Analyst Name: Joseph A. Ernst

QA Signature:

Signature:

Date: 07/16/2024

*Every effort has been made to establish the actual concentration of the components using master gas blending technology however, Custom Gas Solutions shall have no liability in excess of the established charge for this material.

CUSTOMGAS SOLUTIONS



1750 East Club Boulevard
Durham, NC 27704
Phone: (919) 220-2570
Fax: (919) 220-4540

A1142
Rec 10/13/25

Certificate of Analysis

Customer:

ChemTech
284 Sheffield Street
Mountainside, NJ 07092

Cylinder Number: BC993219
Cylinder Size/CGA: 170/180
Fill Pressure: 1815 PSIA
Gas Volume: 110 liters
Date of Mfg: 10/01/2025
Expiration Date: 10/01/2026
Lot Number: 051925-001A

Ship To : Chemtech
284 Sheffield Street
Mountainside, NJ 07092

Customer Number	Ship VIA	Job No.	Customer PO	Mixture Type
00107092NJ	Best Way	051925-001	Email051925	Gravimetric

Component	Nominal Concentration	Actual Concentration*	Mixture Type
Acetone	500 ppb	508 ppb +/- 50 ppb	Gravimetric Master Gas
Acetonitrile	500 ppb	515 ppb +/- 50 ppb	
Acrolein	500 ppb	514 ppb +/- 50 ppb	
Acrylonitrile	500 ppb	519 ppb +/- 50 ppb	
Allyl chloride	500 ppb	499 ppb +/- 50 ppb	
Benzene	500 ppb	475 ppb +/- 50 ppb	
Benzyl Chloride	500 ppb	480 ppb +/- 50 ppb	
Bromodichloromethane	500 ppb	500 ppb +/- 50 ppb	
Bromoform	500 ppb	486 ppb +/- 50 ppb	
1,3-Butadiene	500 ppb	495 ppb +/- 50 ppb	
tert-Butyl alcohol	500 ppb	512 ppb +/- 50 ppb	
n-Butyl benzene	500 ppb	510 ppb +/- 50 ppb	
sec-Butyl benzene	500 ppb	510 ppb +/- 50 ppb	
tert-Butyl benzene	500 ppb	529 ppb +/- 50 ppb	
Carbon disulfide	500 ppb	476 ppb +/- 50 ppb	
Carbon tetrachloride	500 ppb	497 ppb +/- 50 ppb	
Chlorobenzene	500 ppb	483 ppb +/- 50 ppb	
Chlorodibromomethane	500 ppb	488 ppb +/- 50 ppb	
Chloroform	500 ppb	483 ppb +/- 50 ppb	
2-Chlorotoluene	500 ppb	512 ppb +/- 50 ppb	
Cyclohexane	500 ppb	474 ppb +/- 50 ppb	
1,2-Dibromoethane	500 ppb	482 ppb +/- 50 ppb	
1,2-Dichlorobenzene	500 ppb	500 ppb +/- 50 ppb	
1,3-Dichlorobenzene	500 ppb	480 ppb +/- 50 ppb	
1,4-Dichlorobenzene	500 ppb	481 ppb +/- 50 ppb	
Dichlorodifluoromethane (R12)	500 ppb	499 ppb +/- 50 ppb	

1,1-Dichloroethane	500 ppb	483 ppb +/- 50 ppb	
1,2-Dichloroethane	500 ppb	488 ppb +/- 50 ppb	
1,1-Dichloroethylene	500 ppb	484 ppb +/- 50 ppb	
cis 1,2-Dichloroethylene	500 ppb	480 ppb +/- 50 ppb	
trans 1,2-Dichloroethylene	500 ppb	479 ppb +/- 50 ppb	
1,2-Dichloropropane	500 ppb	481 ppb +/- 50 ppb	
cis 1,3-Dichloropropylene	500 ppb	507 ppb +/- 50 ppb	
trans 1,3-Dichloropropylene	500 ppb	457 ppb +/- 50 ppb	
1,2-Dichlorotetrafluoroethane	500 ppb	496 ppb +/- 50 ppb	
1,4-Dioxane	500 ppb	475 ppb +/- 50 ppb	
Ethyl acetate	500 ppb	477 ppb +/- 50 ppb	
Ethyl Alcohol	500 ppb	513 ppb +/- 50 ppb	
Ethyl benzene	500 ppb	488 ppb +/- 50 ppb	
Ethyl Chloride	500 ppb	497 ppb +/- 50 ppb	
4-Ethyltoluene	500 ppb	477 ppb +/- 50 ppb	
n-Heptane	500 ppb	478 ppb +/- 50 ppb	
Hexachloro-1,3-butadiene	500 ppb	480 ppb +/- 50 ppb	
2-Hexanone	500 ppb	482 ppb +/- 50 ppb	
n-Hexane	500 ppb	476 ppb +/- 50 ppb	
Isopropyl alcohol	500 ppb	502 ppb +/- 50 ppb	
Isopropyl benzene	500 ppb	507 ppb +/- 50 ppb	
p-Isopropyl toluene	500 ppb	515 ppb +/- 50 ppb	
Methyl Bromide	500 ppb	496 ppb +/- 50 ppb	
Methyl Chloride	500 ppb	499 ppb +/- 50 ppb	
Methyl ethyl ketone	500 ppb	487 ppb +/- 50 ppb	
Methyl isobutyl ketone	500 ppb	484 ppb +/- 50 ppb	
Methyl methacrylate	500 ppb	512 ppb +/- 50 ppb	
Methyl tertiary butyl ether	500 ppb	474 ppb +/- 50 ppb	
Methylene chloride	500 ppb	489 ppb +/- 50 ppb	
Naphthalene	500 ppb	506 ppb +/- 50 ppb	
n-Propylbenzene	500 ppb	510 ppb +/- 50 ppb	
Propylene	500 ppb	499 ppb +/- 50 ppb	
Styrene	500 ppb	477 ppb +/- 50 ppb	
1,1,1,2-Tetrachloroethane	500 ppb	515 ppb +/- 50 ppb	
1,1,2,2-Tetrachloroethane	500 ppb	475 ppb +/- 50 ppb	
Tetrachloroethylene	500 ppb	478 ppb +/- 50 ppb	
Tetrahydrofuran	500 ppb	504 ppb +/- 50 ppb	
Toluene	500 ppb	482 ppb +/- 50 ppb	
1,2,4-Trichlorobenzene	500 ppb	485 ppb +/- 50 ppb	
1,1,1-Trichloroethane	500 ppb	485 ppb +/- 50 ppb	
1,1,2-Trichloroethane	500 ppb	485 ppb +/- 50 ppb	
Trichloroethylene	500 ppb	479 ppb +/- 50 ppb	
Trichlorofluoromethane	500 ppb	499 ppb +/- 50 ppb	
1,1,2-Trichlorotrifluoroethane	500 ppb	486 ppb +/- 50 ppb	
1,2,4-Trimethylbenzene	500 ppb	485 ppb +/- 50 ppb	
1,3,5-Trimethylbenzene	500 ppb	489 ppb +/- 50 ppb	
2,2,4-Trimethylpentane	500 ppb	480 ppb +/- 50 ppb	
Vinyl acetate	500 ppb	490 ppb +/- 50 ppb	
Vinyl bromide	500 ppb	496 ppb +/- 50 ppb	
Vinyl chloride	500 ppb	507 ppb +/- 50 ppb	
m-Xylene	500 ppb	484 ppb +/- 50 ppb	
o-Xylene	500 ppb	471 ppb +/- 50 ppb	
p-Xylene	500 ppb	477 ppb +/- 50 ppb	
2-Methyl Naphthalene	500 ppb	498 ppb +/- 50 ppb	
R-22	500 ppb	590 ppb +/- 50 ppb	
Nitrogen	balance	balance	

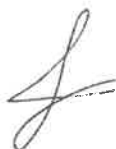
NOTES: Blend Tolerance: +/- 10 %
Analytical Tolerance: +/- 10 %
Traceability: NIST by weight set. NIST Traceability No MT001810.
Internal Standards by analysis
Reactive Mixtures: Analyzed twice with required agreement between analyses of 2%.
Required wait time between analyses of >7 days.
Caution: Do not use below 150 PSIG.

Analyst Name: Joseph A. Ernst

QA Signature:

Signature:

Date: 10/01/2025



*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.

CUSTOMGAS

SOLUTIONS



1750 East Club Boulevard
Durham, NC 27704
Phone: (919) 220-2570
Fax: (919) 220-4540

A 1143

Rec 10/13/25

Certificate of Analysis

Customer:

ChemTech
284 Sheffield Street
Mountainside, NJ 07092

Cylinder Number: BC785565
Cylinder Size/CGA: 170/180
Fill Pressure: 1815 PSIA
Gas Volume: 110 liters
Date of Mfg: 10/01/2025
Expiration Date: 10/01/2026
Lot Number: 051925-001B

Ship To : Chemtech
284 Sheffield Street
Mountainside, NJ 07092

Customer Number	Ship VIA	Job No.	Customer PO	Mixture Type
00107092NJ	Best Way	051925-001	Email051925	Gravimetric

Component	Nominal Concentration	Actual Concentration*	Mixture Type
Acetone	500 ppb	525 ppb +/- 50 ppb	Gravimetric Master Gas
Acetonitrile	500 ppb	525 ppb +/- 50 ppb	
Acrolein	500 ppb	534 ppb +/- 50 ppb	
Acrylonitrile	500 ppb	530 ppb +/- 50 ppb	
Allyl chloride	500 ppb	517 ppb +/- 50 ppb	
Benzene	500 ppb	492 ppb +/- 50 ppb	
Benzyl Chloride	500 ppb	497 ppb +/- 50 ppb	
Bromodichloromethane	500 ppb	518 ppb +/- 50 ppb	
Bromoform	500 ppb	503 ppb +/- 50 ppb	
1,3-Butadiene	500 ppb	512 ppb +/- 50 ppb	
tert-Butyl alcohol	500 ppb	523 ppb +/- 50 ppb	
n-Butyl benzene	500 ppb	510 ppb +/- 50 ppb	
sec-Butyl benzene	500 ppb	520 ppb +/- 50 ppb	
tert-Butyl benzene	500 ppb	520 ppb +/- 50 ppb	
Carbon disulfide	500 ppb	493 ppb +/- 50 ppb	
Carbon tetrachloride	500 ppb	515 ppb +/- 50 ppb	
Chlorobenzene	500 ppb	500 ppb +/- 50 ppb	
Chlorodibromomethane	500 ppb	496 ppb +/- 50 ppb	
Chloroform	500 ppb	500 ppb +/- 50 ppb	
2-Chlorotoluene	500 ppb	523 ppb +/- 50 ppb	
Cyclohexane	500 ppb	491 ppb +/- 50 ppb	
1,2-Dibromoethane	500 ppb	499 ppb +/- 50 ppb	
1,2-Dichlorobenzene	500 ppb	518 ppb +/- 50 ppb	
1,3-Dichlorobenzene	500 ppb	497 ppb +/- 50 ppb	
1,4-Dichlorobenzene	500 ppb	498 ppb +/- 50 ppb	
Dichlorodifluoromethane (R12)	500 ppb	516 ppb +/- 50 ppb	

1,1-Dichloroethane	500 ppb	500 ppb +/- 50 ppb	
1,2-Dichloroethane	500 ppb	505 ppb +/- 50 ppb	
1,1-Dichloroethylene	500 ppb	501 ppb +/- 50 ppb	
cis 1,2-Dichloroethylene	500 ppb	497 ppb +/- 50 ppb	
trans 1,2-Dichloroethylene	500 ppb	496 ppb +/- 50 ppb	
1,2-Dichloropropane	500 ppb	498 ppb +/- 50 ppb	
cis 1,3-Dichloropropylene	500 ppb	525 ppb +/- 50 ppb	
trans 1,3-Dichloropropylene	500 ppb	473 ppb +/- 50 ppb	
1,2-Dichlorotetrafluoroethane	500 ppb	513 ppb +/- 50 ppb	
1,4-Dioxane	500 ppb	492 ppb +/- 50 ppb	
Ethyl acetate	500 ppb	494 ppb +/- 50 ppb	
Ethyl Alcohol	500 ppb	523 ppb +/- 50 ppb	
Ethyl benzene	500 ppb	505 ppb +/- 50 ppb	
Ethyl Chloride	500 ppb	515 ppb +/- 50 ppb	
4-Ethyltoluene	500 ppb	494 ppb +/- 50 ppb	
n-Heptane	500 ppb	495 ppb +/- 50 ppb	
Hexachloro-1,3-butadiene	500 ppb	497 ppb +/- 50 ppb	
2-Hexanone	500 ppb	499 ppb +/- 50 ppb	
n-Hexane	500 ppb	493 ppb +/- 50 ppb	
Isopropyl alcohol	500 ppb	520 ppb +/- 50 ppb	
Isopropyl benzene	500 ppb	518 ppb +/- 50 ppb	
p-Isopropyl toluene	500 ppb	524 ppb +/- 50 ppb	
Methyl Bromide	500 ppb	514 ppb +/- 50 ppb	
Methyl Chloride	500 ppb	517 ppb +/- 50 ppb	
Methyl ethyl ketone	500 ppb	504 ppb +/- 50 ppb	
Methyl isobutyl ketone	500 ppb	501 ppb +/- 50 ppb	
Methyl methacrylate	500 ppb	523 ppb +/- 50 ppb	
Methyl tertiary butyl ether	500 ppb	491 ppb +/- 50 ppb	
Methylene chloride	500 ppb	506 ppb +/- 50 ppb	
Naphthalene	500 ppb	517 ppb +/- 50 ppb	
n-Propylbenzene	500 ppb	519 ppb +/- 50 ppb	
Propylene	500 ppb	516 ppb +/- 50 ppb	
Styrene	500 ppb	494 ppb +/- 50 ppb	
1,1,1,2-Tetrachloroethane	500 ppb	525 ppb +/- 50 ppb	
1,1,2,2-Tetrachloroethane	500 ppb	492 ppb +/- 50 ppb	
Tetrachloroethylene	500 ppb	495 ppb +/- 50 ppb	
Tetrahydrofuran	500 ppb	510 ppb +/- 50 ppb	
Toluene	500 ppb	499 ppb +/- 50 ppb	
1,2,4-Trichlorobenzene	500 ppb	502 ppb +/- 50 ppb	
1,1,1-Trichloroethane	500 ppb	502 ppb +/- 50 ppb	
1,1,2-Trichloroethane	500 ppb	503 ppb +/- 50 ppb	
Trichloroethylene	500 ppb	496 ppb +/- 50 ppb	
Trichlorofluoromethane	500 ppb	517 ppb +/- 50 ppb	
1,1,2-Trichlorotrifluoroethane	500 ppb	503 ppb +/- 50 ppb	
1,2,4-Trimethylbenzene	500 ppb	502 ppb +/- 50 ppb	
1,3,5-Trimethylbenzene	500 ppb	506 ppb +/- 50 ppb	
2,2,4-Trimethylpentane	500 ppb	497 ppb +/- 50 ppb	
Vinyl acetate	500 ppb	507 ppb +/- 50 ppb	
Vinyl bromide	500 ppb	514 ppb +/- 50 ppb	
Vinyl chloride	500 ppb	515 ppb +/- 50 ppb	
m-Xylene	500 ppb	501 ppb +/- 50 ppb	
o-Xylene	500 ppb	488 ppb +/- 50 ppb	
p-Xylene	500 ppb	494 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: +/- 10 %
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: 10/01/2025



*Every effort has been made to establish the actual concentration of the components using master gas blending technology however, Custom Gas Solutions shall have no liability in excess of the established charge for this material.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
 Data File : VL043105.D
 Acq On : 14 Oct 2025 10:31
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Quant Time: Oct 15 01:51:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 01:49:43 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	103971	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	341790	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	309230	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	241468	10.046	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.500%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	132845	8.987	ppbv	100
3) Chlorodifluoromethane	1.476	51	150832	9.431	ppbv	100
4) Chloromethane	1.535	50	51934	8.869	ppbv	100
5) Vinyl Chloride	1.583	62	50044	8.713	ppbv	100
6) Bromomethane	1.671	94	27062	8.593	ppbv	100
7) Chloroethane	1.706	64	19941	8.492	ppbv	100
8) Dichlorotetrafluoroethane	1.557	85	108109	9.049	ppbv	100
9) Propene	1.483	41	68116	9.602	ppbv	100
10) Heptane	4.985	43	187423	9.217	ppbv	100
11) Trichlorofluoromethane	1.881	101	129180	8.935	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.143	101	101442	8.715	ppbv	100
13) Ethanol	1.722	45	20045	7.640	ppbv	100
14) Bromoethene	1.784	108	38553	8.916	ppbv	100
15) Acetone	1.836	43	113399	8.047	ppbv	100
16) 1,3-Butadiene	1.612	39	57406	8.596	ppbv	100
17) tert-Butyl alcohol	2.043	59	175630	9.130	ppbv	100
18) 1,1-Dichloroethene	2.036	96	45413	8.949	ppbv	100
19) Isopropyl Alcohol	1.887	45	75355	8.634	ppbv	97
20) Methylene Chloride	2.065	84	42212	7.620	ppbv	100
21) Allyl Chloride	2.098	41	94625	9.145	ppbv	100
22) trans-1,2-Dichloroethene	2.344	96	53146	8.761	ppbv	100
23) Vinyl Acetate	2.467	43	168706	8.218	ppbv	100
24) 1,1-Dichloroethane	2.412	63	107153	9.143	ppbv	100
25) Ethyl Acetate	2.839	43	325662	9.371	ppbv	100
26) Hexane	2.829	57	146168	9.128	ppbv	99
27) Carbon Disulfide	2.153	76	136729	9.319	ppbv	99
28) Methyl tert-Butyl Ether	2.441	73	61076	8.384	ppbv	98
29) Chloroform	2.852	83	211071	9.097	ppbv	100
30) Cyclohexane	3.862	84	126226	9.037	ppbv	100
31) cis-1,2-Dichloroethene	2.722	61	146072	9.553	ppbv	100
32) 1,1,1-Trichloroethane	3.373	97	222043	9.189	ppbv	100
34) 2-Butanone	2.557	43	207274	8.971	ppbv	100
35) Carbon Tetrachloride	3.768	117	221937	9.032	ppbv	100
36) Benzene	3.661	78	297653	9.246	ppbv	100
37) 1,2-Dichloroethane	3.221	62	165898	8.946	ppbv	100
38) Trichloroethene	4.554	130	116947	8.708	ppbv	100
39) 1,2-Dichloropropane	4.315	63	108446	9.207	ppbv	100
40) 1,4-Dioxane	4.583	88	48201	9.153	ppbv #	97
41) Tetrahydrofuran	3.056	42	117069	9.076	ppbv	100
42) Bromodichloromethane	4.496	83	238353	9.286	ppbv	100
43) Methyl Methacrylate	4.881	69	153927	9.371	ppbv	99
44) 2,2,4-Trimethylpentane	4.645	57	499148	9.273	ppbv	99
45) t-1,3-Dichloropropene	6.419	75	157856	9.620	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
 Data File : VL043105.D
 Acq On : 14 Oct 2025 10:31
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

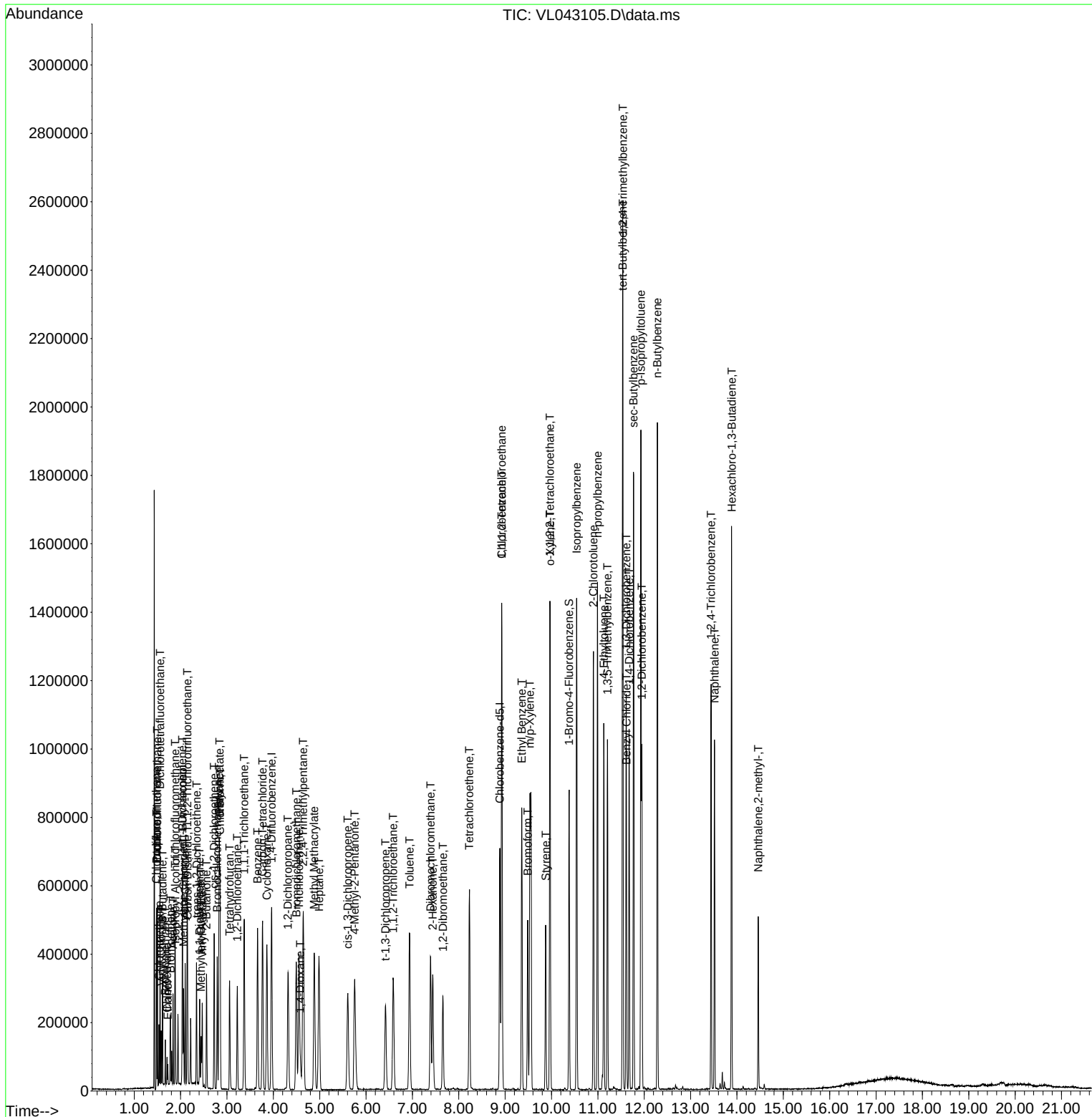
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

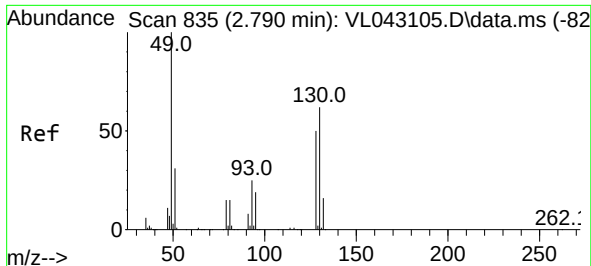
Quant Time: Oct 15 01:51:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 01:49:43 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.606	75	186533	9.525	ppbv	100
47) 1,1,2-Trichloroethane	6.584	97	115419	9.082	ppbv	100
48) Dibromochloromethane	7.390	129	201349	9.476	ppbv	100
49) Bromoform	9.487	173	166377	9.633	ppbv	100
50) 4-Methyl-2-Pentanone	5.755	43	298401	9.362	ppbv	100
51) 2-Hexanone	7.438	43	236391	9.940	ppbv	100
52) Tetrachloroethene	8.228	164	106710	9.192	ppbv	100
53) Toluene	6.940	91	354007	9.266	ppbv	100
54) 1,2-Dibromoethane	7.658	107	182074	9.080	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.927	131	182585	9.367	ppbv	100
57) Chlorobenzene	8.927	112	262566	9.076	ppbv	100
58) Ethyl Benzene	9.358	91	494344	9.241	ppbv	100
59) m/p-Xylene	9.536	91	403670	9.529	ppbv #	29
60) o-Xylene	9.969	91	378462	9.053	ppbv	100
61) Styrene	9.875	104	178859	9.477	ppbv	100
62) Isopropylbenzene	10.542	105	692992	9.173	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.966	83	240245	8.582	ppbv	100
64) n-propylbenzene	10.992	120	182233	9.112	ppbv	100
65) tert-Butylbenzene	11.536	119	587750	8.810	ppbv	100
66) Benzyl Chloride	11.617	91	74574	10.009	ppbv	100
67) sec-Butylbenzene	11.769	105	834052	8.809	ppbv	100
69) p-Isopropyltoluene	11.927	119	720433	8.955	ppbv	100
70) n-Butylbenzene	12.283	91	717743	9.053	ppbv	100
71) 2-Chlorotoluene	10.905	91	524961	9.111	ppbv	100
72) 4-Ethyltoluene	11.128	105	473042	9.202	ppbv	100
73) 1,3,5-Trimethylbenzene	11.206	105	389818	9.195	ppbv	100
74) 1,2,4-Trimethylbenzene	11.539	105	411619	8.676	ppbv	100
75) 1,3-Dichlorobenzene	11.610	146	252926	9.192	ppbv	100
76) 1,4-Dichlorobenzene	11.675	146	254461	9.171	ppbv	100
77) 1,2-Dichlorobenzene	11.950	146	236724	8.893	ppbv	100
78) Hexachloro-1,3-Butadiene	13.886	225	171777	8.334	ppbv	100
79) Naphthalene	13.517	128	488672	9.972	ppbv	100
80) Naphthalene,2-methyl-	14.458	142	147897	11.431	ppbv	100
81) 1,2,4-Trichlorobenzene	13.442	180	197210	9.582	ppbv	100

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

Quant Time: Oct 15 01:51:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 01:49:43 2025
Response via : Initial Calibration

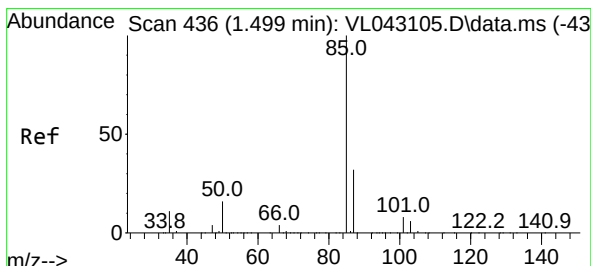
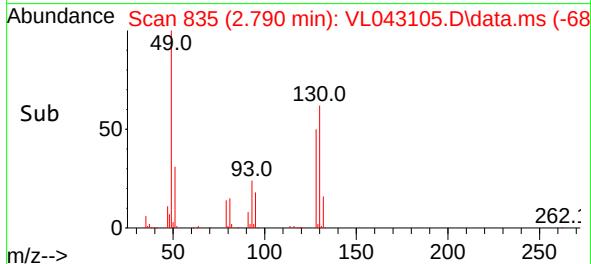
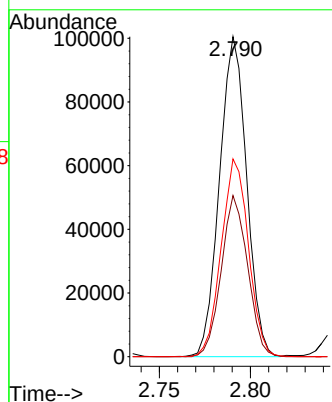
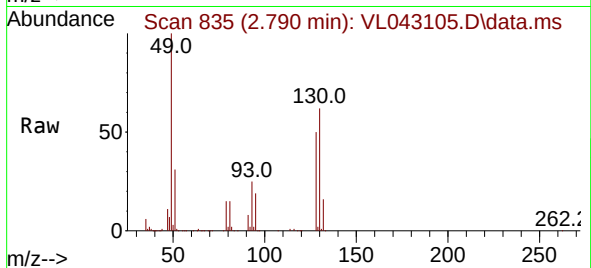




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 835
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

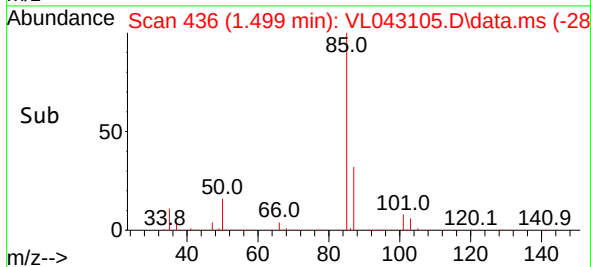
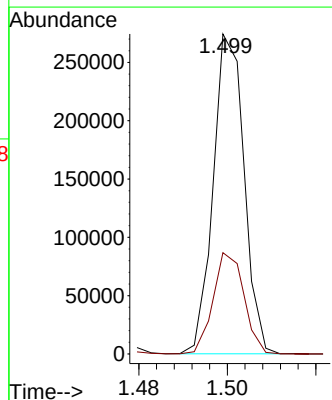
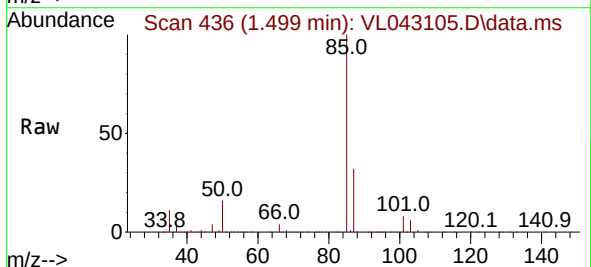
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

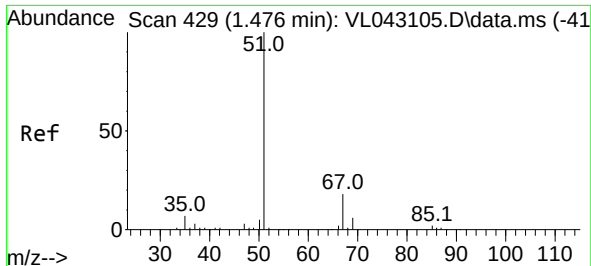
Tgt Ion: 49 Resp: 103971
Ion Ratio Lower Upper
49 100
128 48.9 24.4 73.4
130 62.0 31.0 93.0



#2
Dichlorodifluoromethane
Concen: 8.987 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 85 Resp: 132845
Ion Ratio Lower Upper
85 100
87 31.6 25.3 37.9

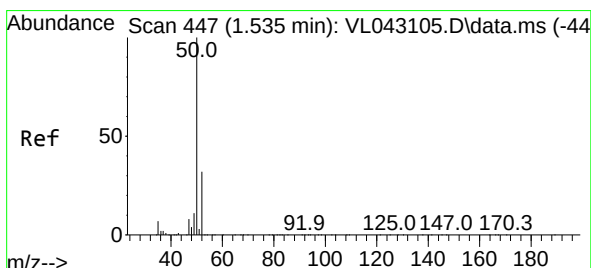
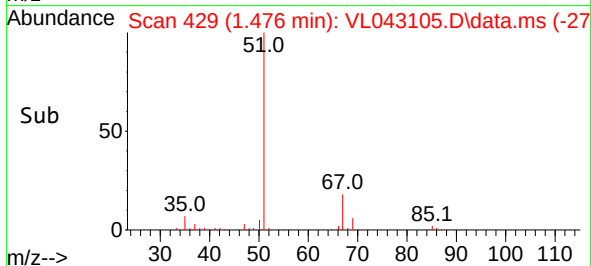
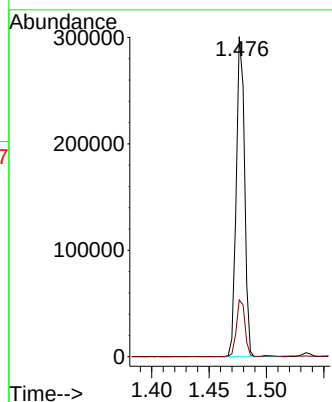
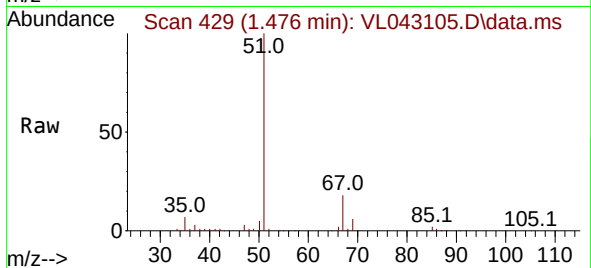




#3
Chlorodifluoromethane
Concen: 9.431 ppbv
RT: 1.476 min Scan# 429
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

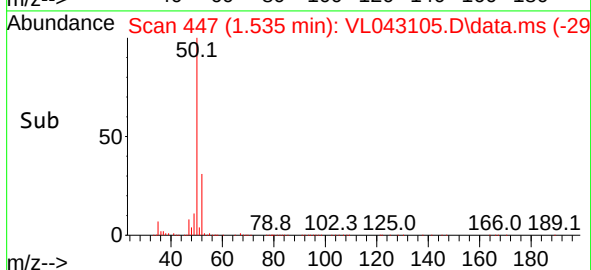
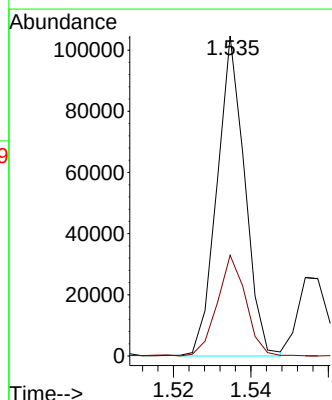
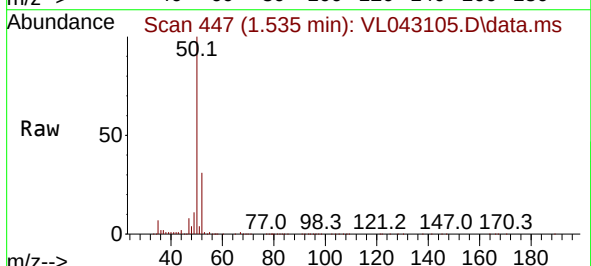
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

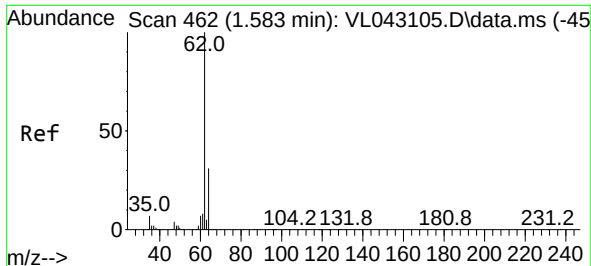
Tgt Ion: 51 Resp: 150832
Ion Ratio Lower Upper
51 100
67 18.9 15.1 22.7



#4
Chloromethane
Concen: 8.869 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 50 Resp: 51934
Ion Ratio Lower Upper
50 100
52 31.5 25.2 37.8

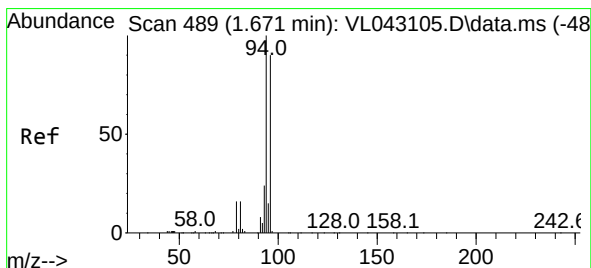
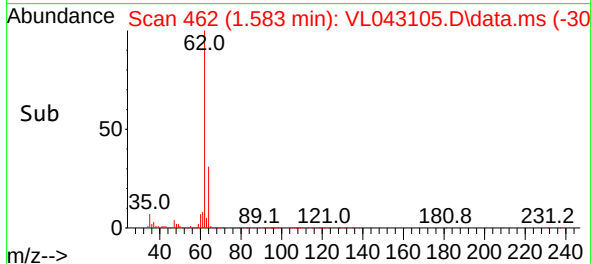
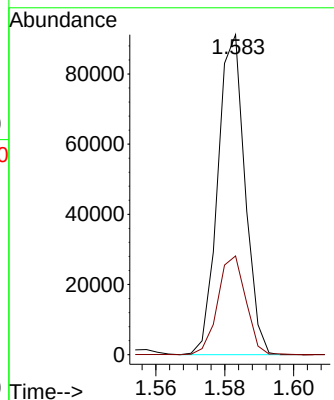
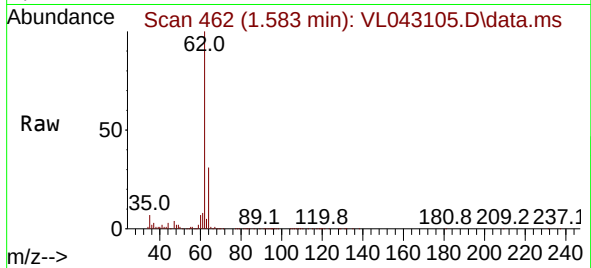




#5
 Vinyl Chloride
 Concen: 8.713 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. 0.000 min
 Lab File: VL043105.D
 Acq: 14 Oct 2025 10:31

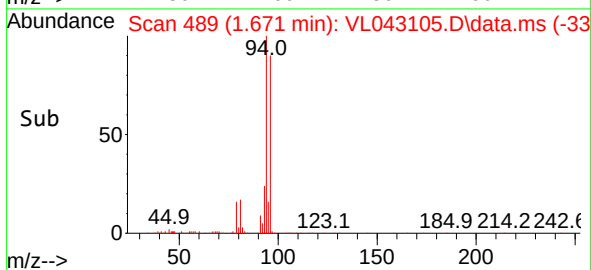
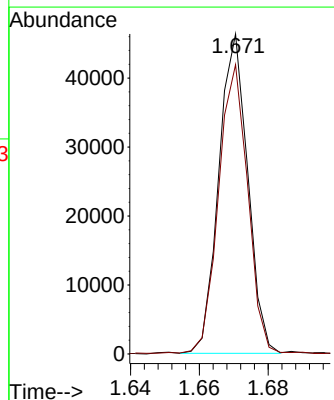
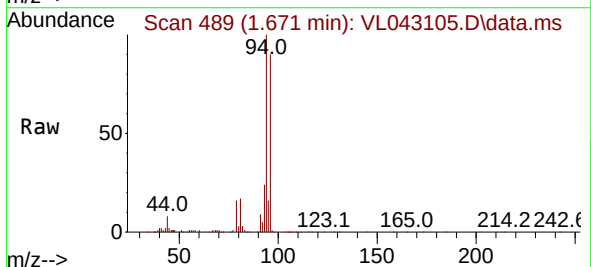
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

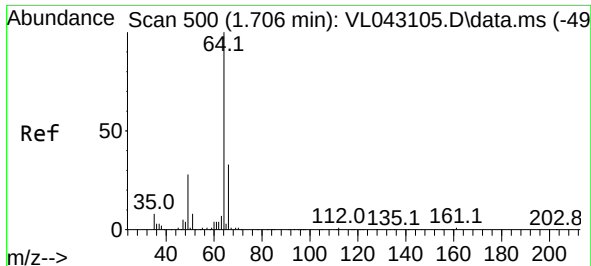
Tgt Ion: 62 Resp: 50044
 Ion Ratio Lower Upper
 62 100
 64 30.7 24.6 36.8



#6
 Bromomethane
 Concen: 8.593 ppbv
 RT: 1.671 min Scan# 489
 Delta R.T. 0.000 min
 Lab File: VL043105.D
 Acq: 14 Oct 2025 10:31

Tgt Ion: 94 Resp: 27062
 Ion Ratio Lower Upper
 94 100
 96 90.3 72.2 108.4

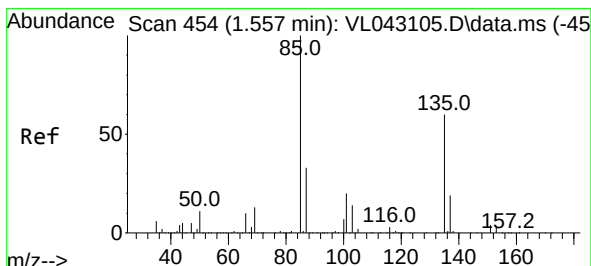
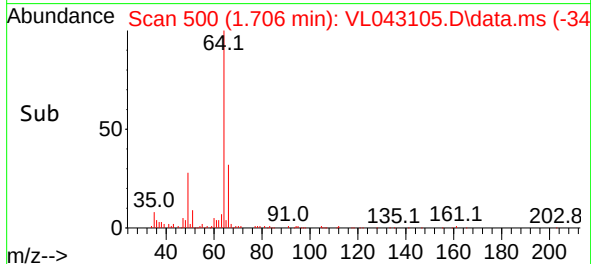
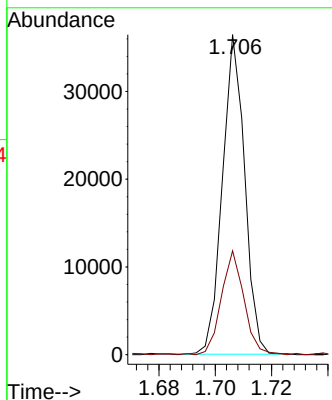
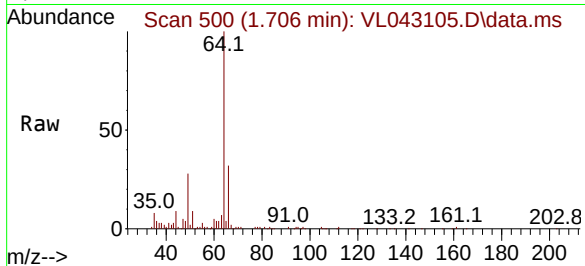




#7
Chloroethane
Concen: 8.492 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

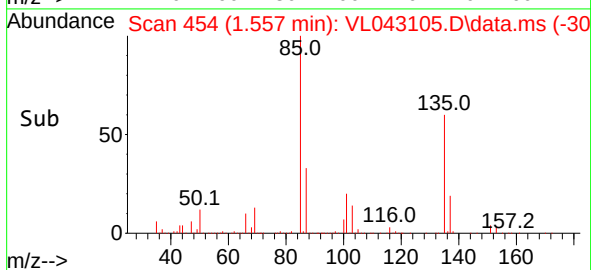
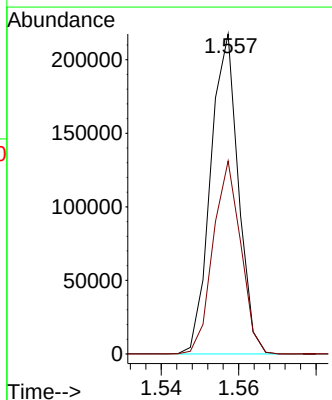
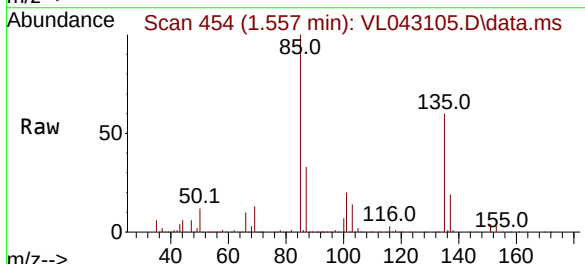
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

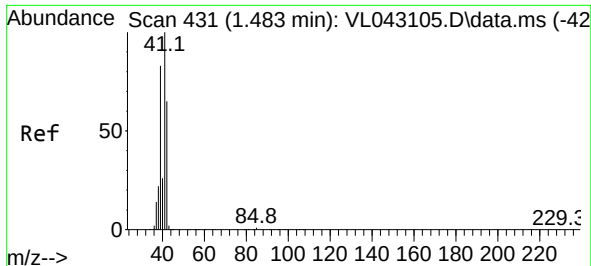
Tgt Ion: 64 Resp: 19941
Ion Ratio Lower Upper
64 100
66 32.5 26.0 39.0



#8
Dichlorotetrafluoroethane
Concen: 9.049 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 85 Resp: 108109
Ion Ratio Lower Upper
85 100
135 60.3 48.2 72.4

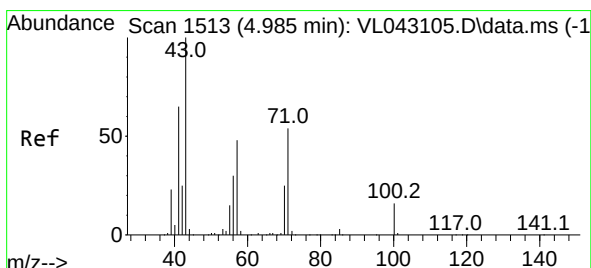
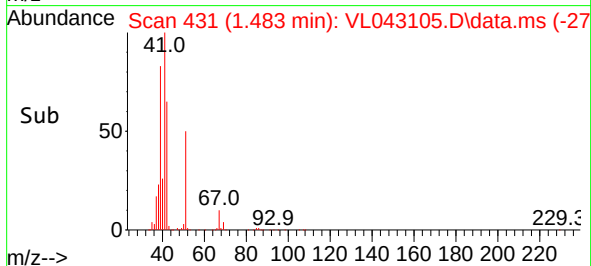
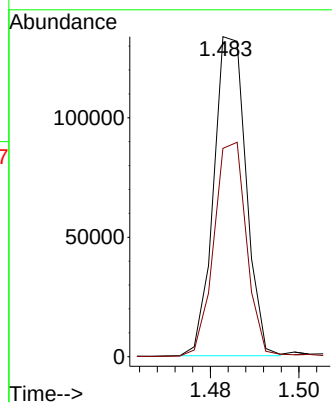
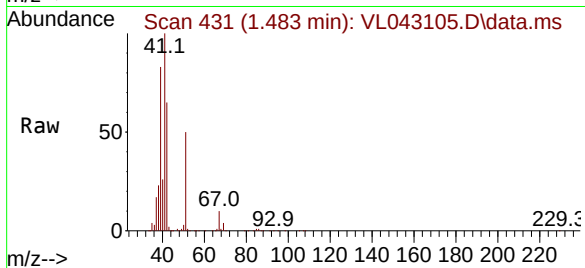




#9
Propene
Concen: 9.602 ppbv
RT: 1.483 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

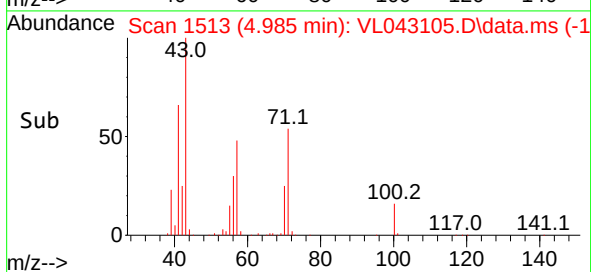
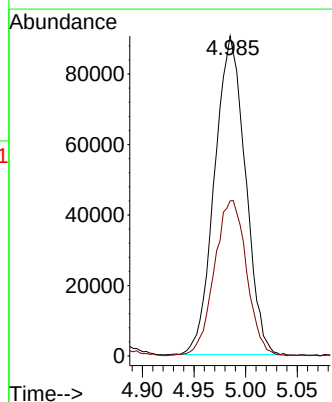
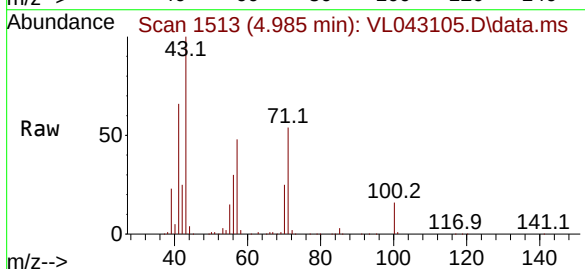
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

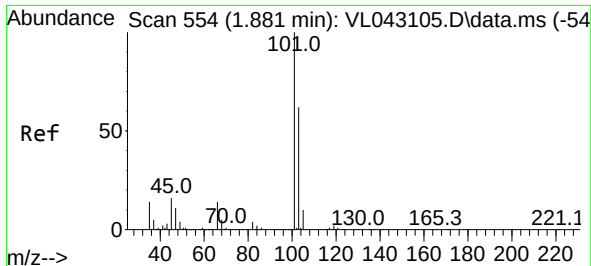
Tgt Ion: 41 Resp: 68116
Ion Ratio Lower Upper
41 100
42 68.9 55.1 82.7



#10
Heptane
Concen: 9.217 ppbv
RT: 4.985 min Scan# 1513
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 43 Resp: 187423
Ion Ratio Lower Upper
43 100
57 50.9 40.8 61.2

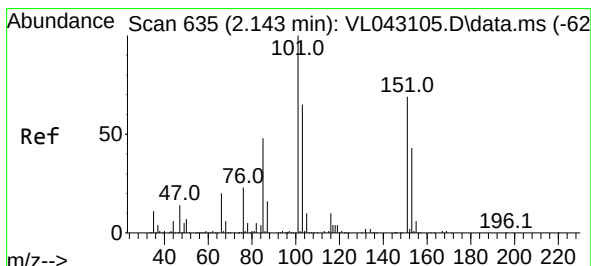
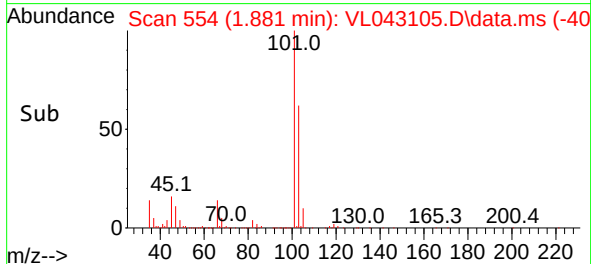
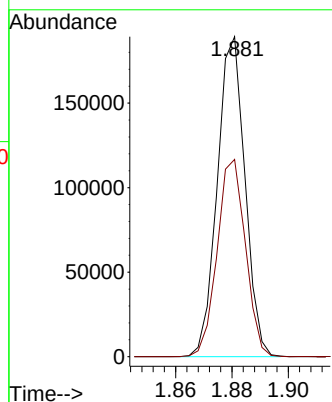
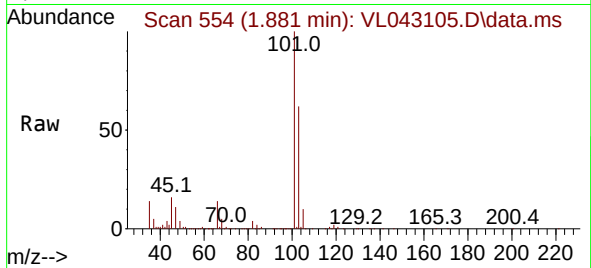




#11
 Trichlorofluoromethane
 Concen: 8.935 ppbv
 RT: 1.881 min Scan# 511
 Delta R.T. 0.000 min
 Lab File: VL043105.D
 Acq: 14 Oct 2025 10:31

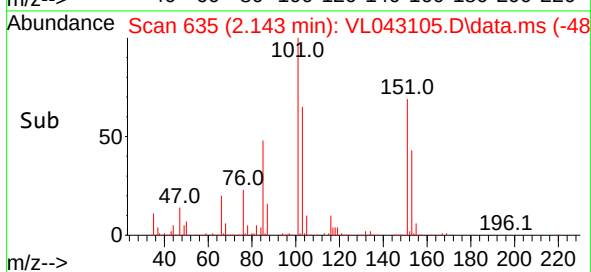
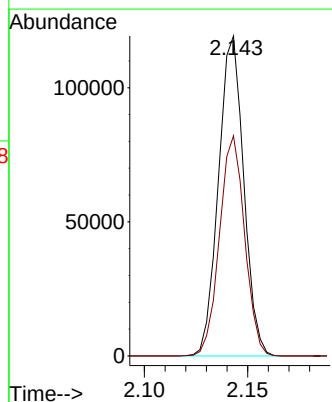
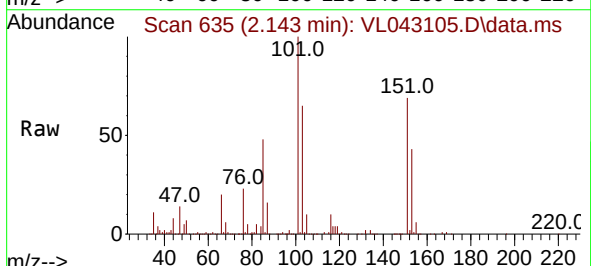
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

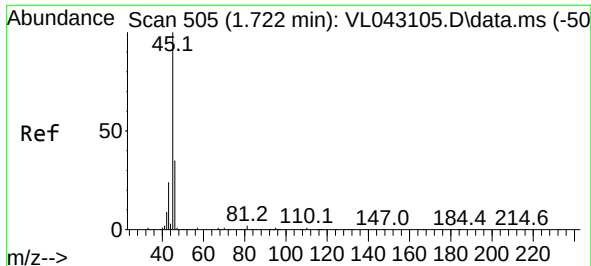
Tgt Ion:101 Resp: 129180
 Ion Ratio Lower Upper
 101 100
 103 61.6 49.3 73.9



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 8.715 ppbv
 RT: 2.143 min Scan# 635
 Delta R.T. 0.000 min
 Lab File: VL043105.D
 Acq: 14 Oct 2025 10:31

Tgt Ion:101 Resp: 101442
 Ion Ratio Lower Upper
 101 100
 151 68.4 54.7 82.1

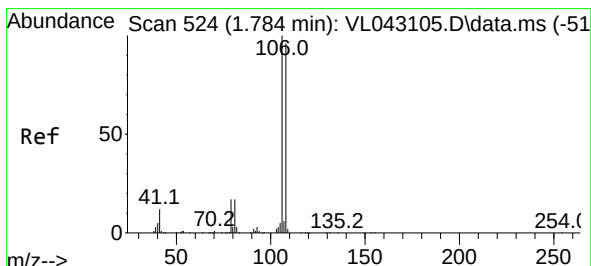
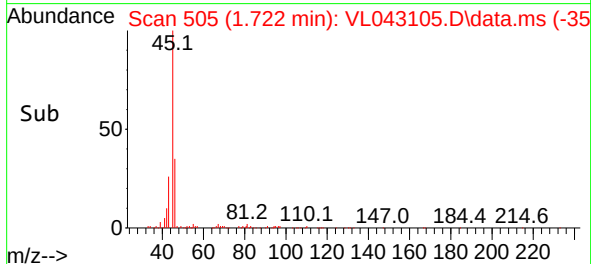
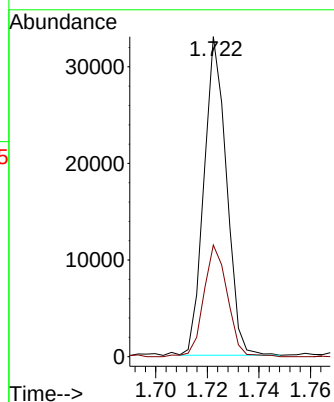
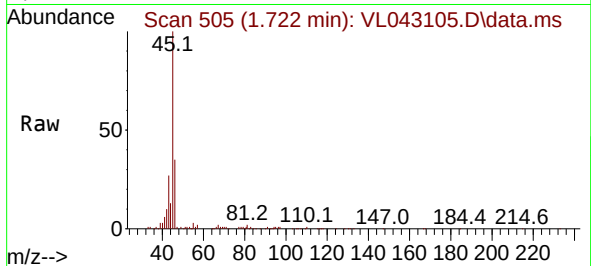




#13
Ethanol
Concen: 7.640 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

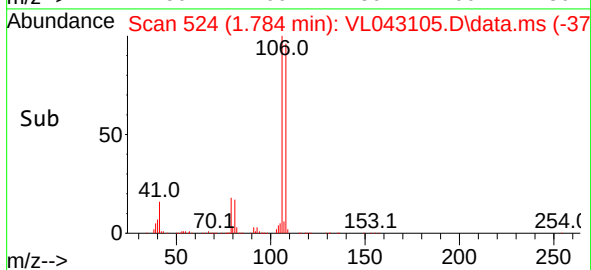
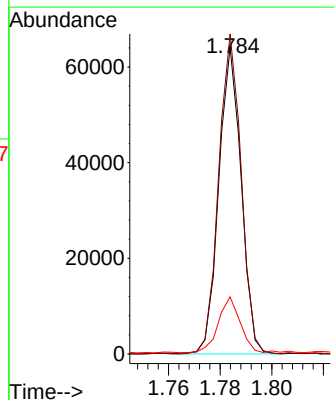
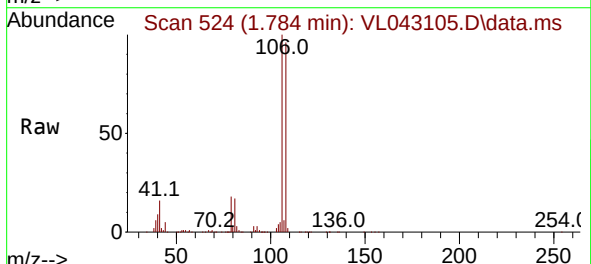
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

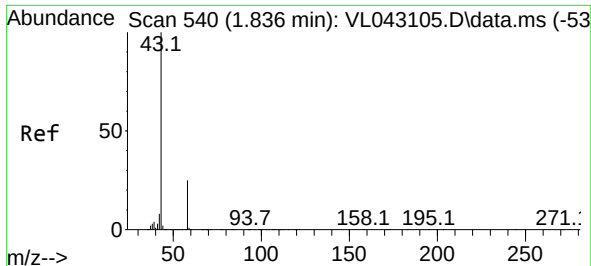
Tgt Ion: 45 Resp: 20045
Ion Ratio Lower Upper
45 100
46 36.8 14.7 58.9



#14
Bromoethene
Concen: 8.916 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 108 Resp: 38553
Ion Ratio Lower Upper
108 100
106 105.5 84.4 126.6
79 19.1 15.3 22.9

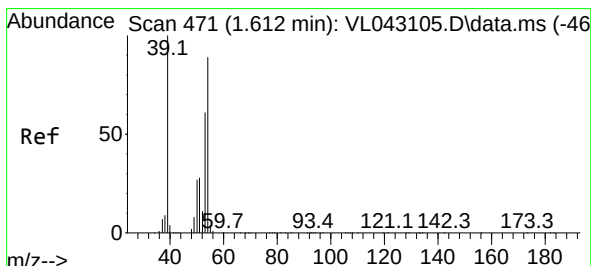
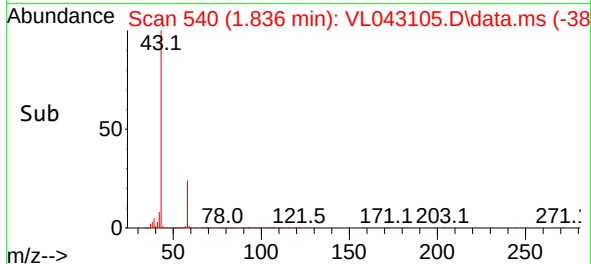
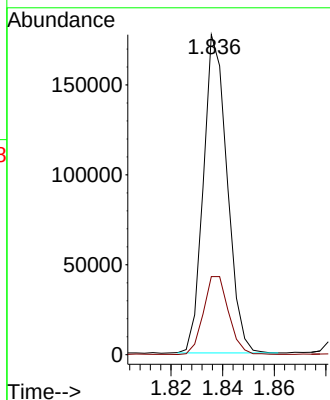
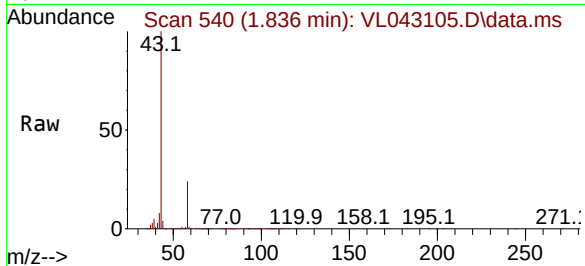




#15
Acetone
Concen: 8.047 ppbv
RT: 1.836 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

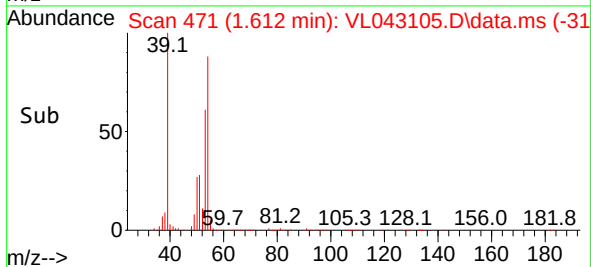
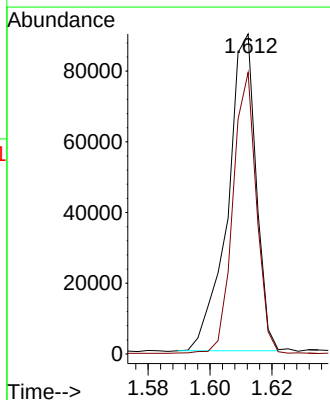
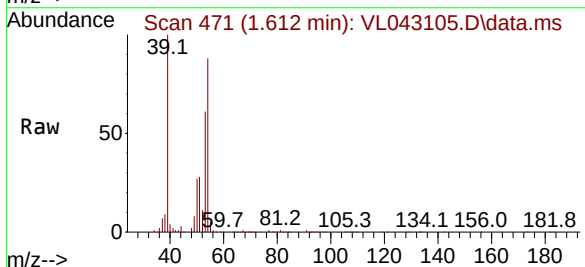
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

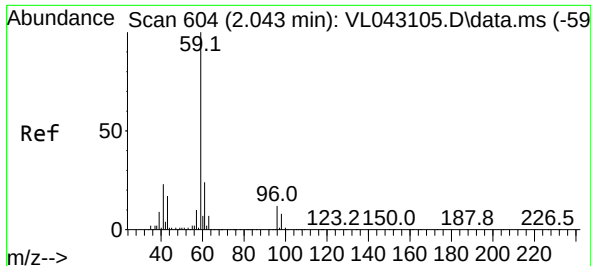
Tgt Ion: 43 Resp: 113399
Ion Ratio Lower Upper
43 100
58 26.0 20.8 31.2



#16
1,3-Butadiene
Concen: 8.596 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 39 Resp: 57406
Ion Ratio Lower Upper
39 100
54 73.7 59.0 88.4

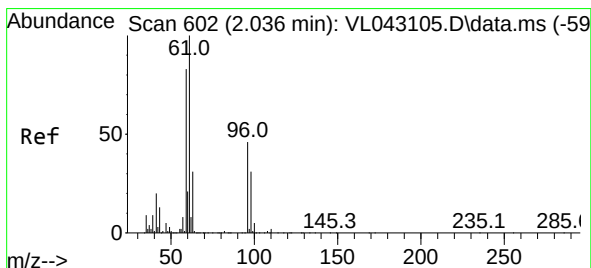
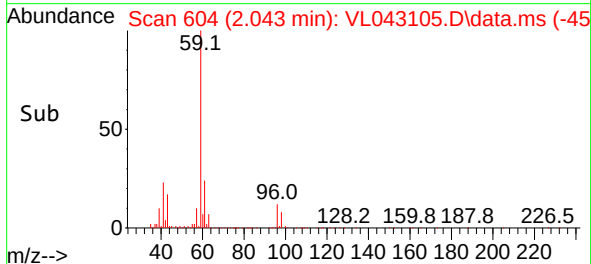
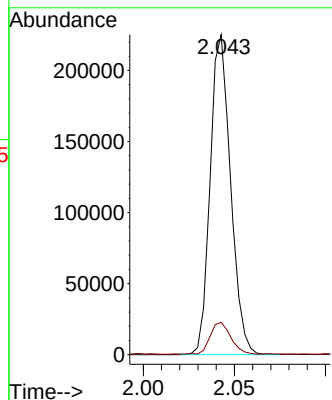
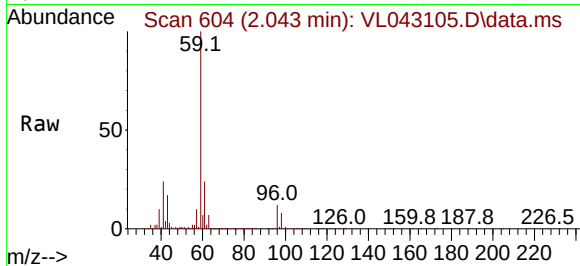




#17
 tert-Butyl alcohol
 Concen: 9.130 ppbv
 RT: 2.043 min Scan# 604
 Delta R.T. 0.000 min
 Lab File: VL043105.D
 Acq: 14 Oct 2025 10:31

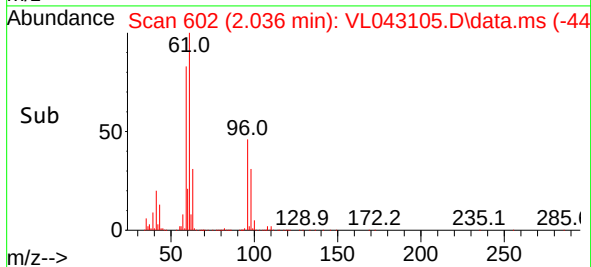
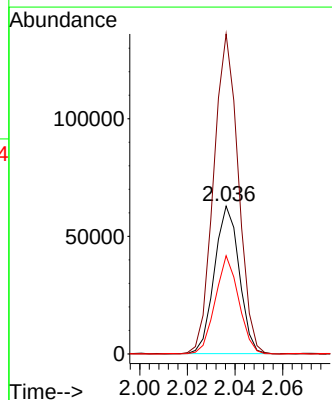
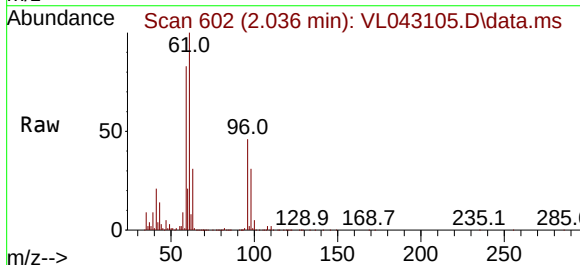
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

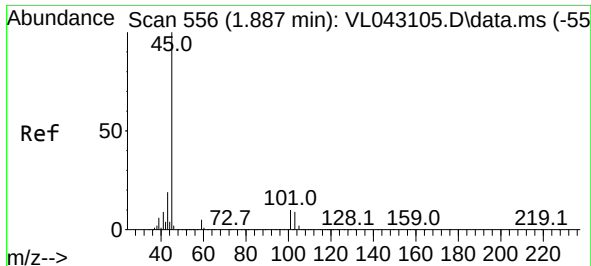
Tgt Ion: 59 Resp: 175630
 Ion Ratio Lower Upper
 59 100
 57 10.3 8.2 12.4



#18
 1,1-Dichloroethene
 Concen: 8.949 ppbv
 RT: 2.036 min Scan# 602
 Delta R.T. 0.000 min
 Lab File: VL043105.D
 Acq: 14 Oct 2025 10:31

Tgt Ion: 96 Resp: 45413
 Ion Ratio Lower Upper
 96 100
 61 216.7 173.4 260.0
 98 66.5 53.2 79.8

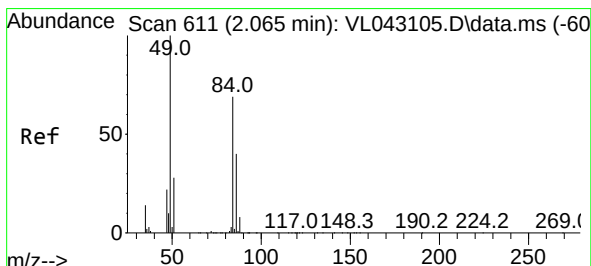
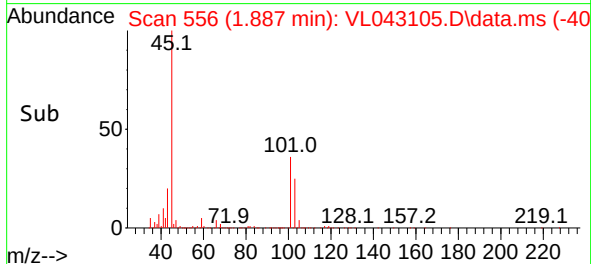
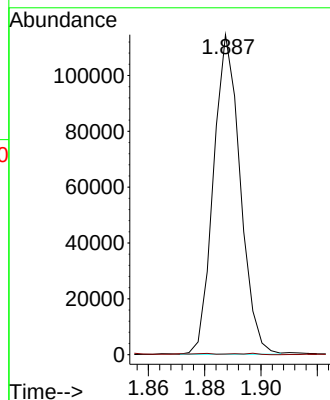
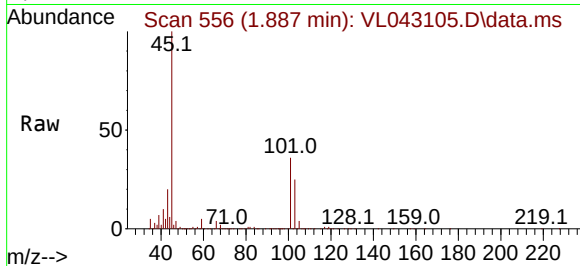




#19
Isopropyl Alcohol
Concen: 8.634 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

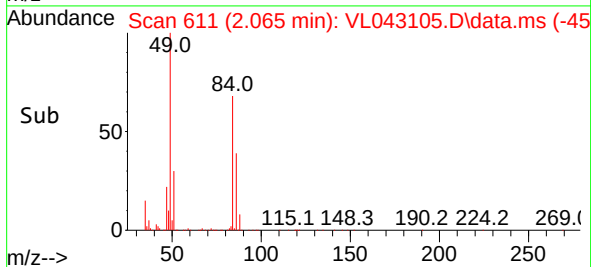
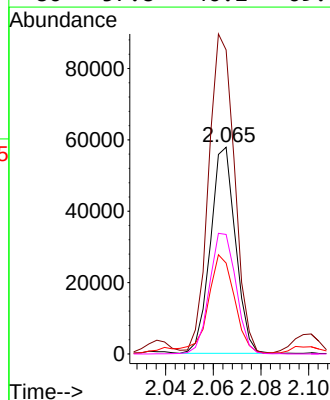
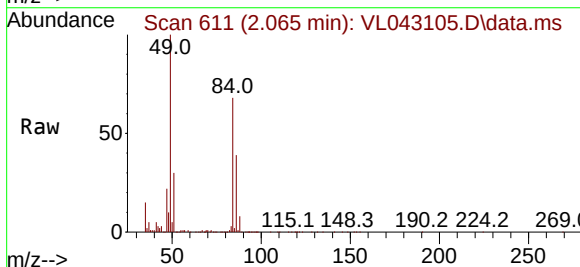
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

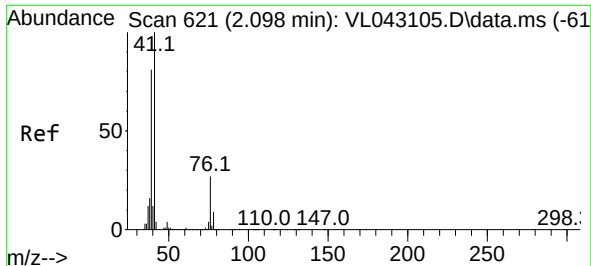
Tgt Ion: 45 Resp: 75355
Ion Ratio Lower Upper
45 100
58 41.1 31.3 46.9



#20
Methylene Chloride
Concen: 7.620 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 84 Resp: 42212
Ion Ratio Lower Upper
84 100
49 145.8 116.6 175.0
51 43.5 34.8 52.2
86 57.8 46.2 69.4

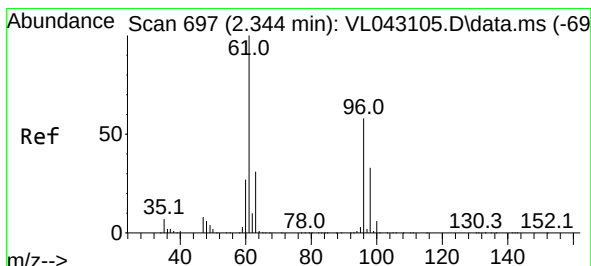
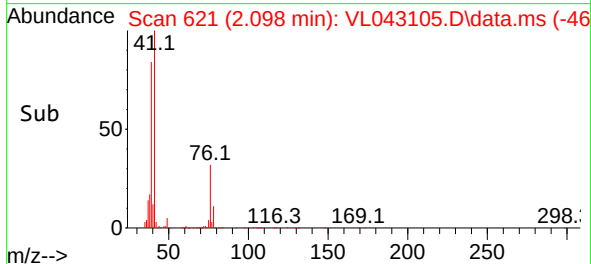
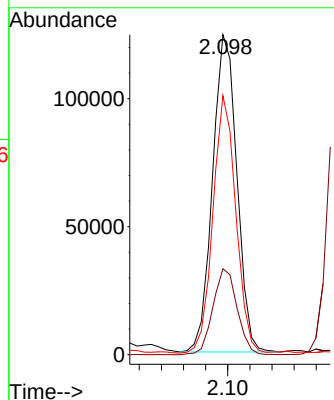
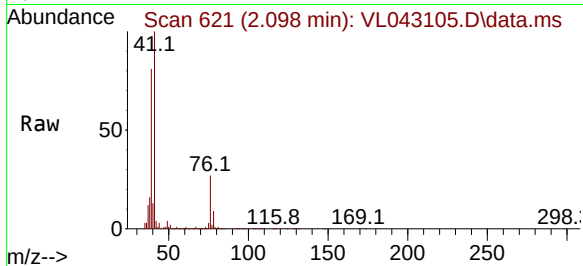




#21
 Allyl Chloride
 Concen: 9.145 ppbv
 RT: 2.098 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: VL043105.D
 Acq: 14 Oct 2025 10:31

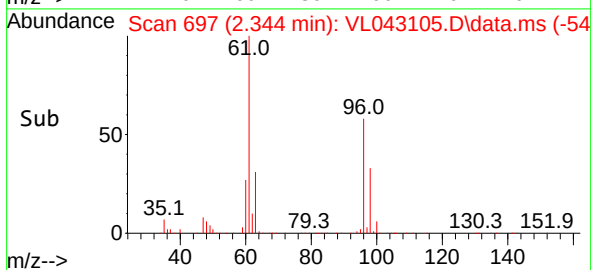
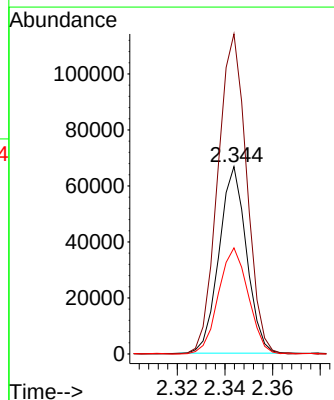
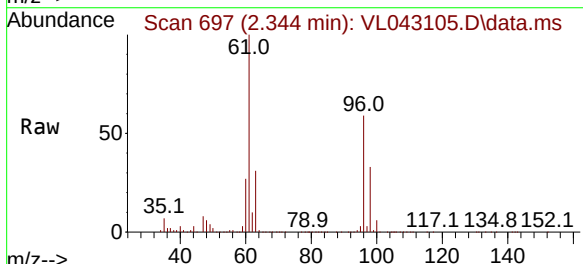
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

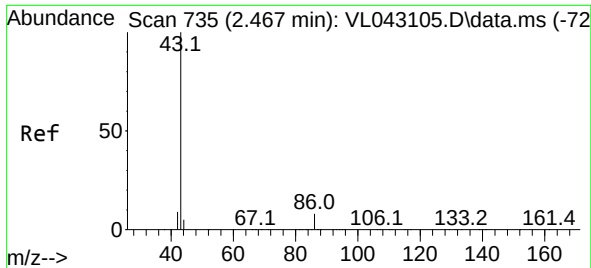
Tgt Ion: 41 Resp: 94625
 Ion Ratio Lower Upper
 41 100
 76 26.9 21.5 32.3
 39 76.4 60.8 91.2



#22
 trans-1,2-Dichloroethene
 Concen: 8.761 ppbv
 RT: 2.344 min Scan# 697
 Delta R.T. 0.000 min
 Lab File: VL043105.D
 Acq: 14 Oct 2025 10:31

Tgt Ion: 96 Resp: 53146
 Ion Ratio Lower Upper
 96 100
 61 171.3 137.0 205.6
 98 56.9 45.5 68.3



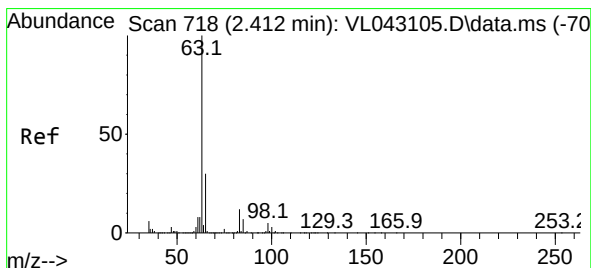
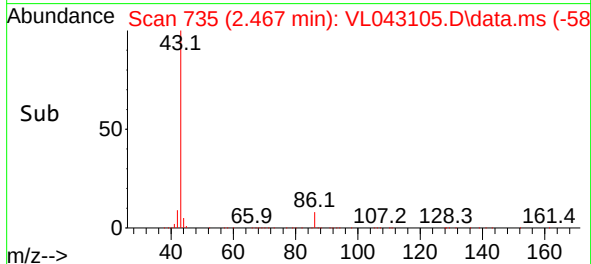
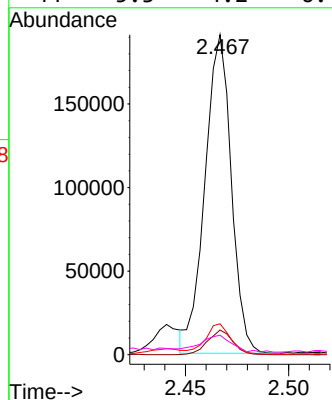
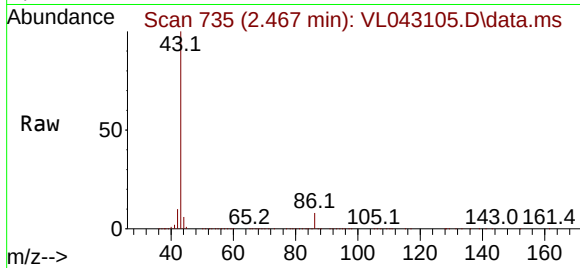


#23
 Vinyl Acetate
 Concen: 8.218 ppbv
 RT: 2.467 min Scan# 718
 Delta R.T. 0.000 min
 Lab File: VL043105.D
 Acq: 14 Oct 2025 10:31

Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

Tgt Ion: 43 Resp: 168706

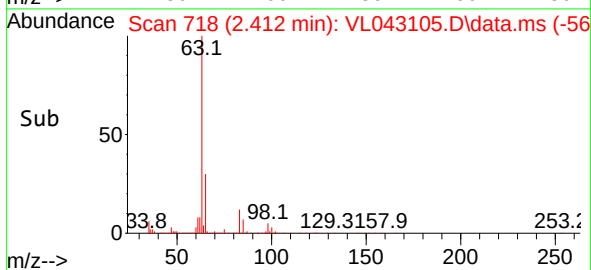
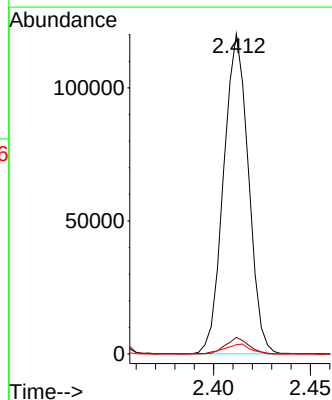
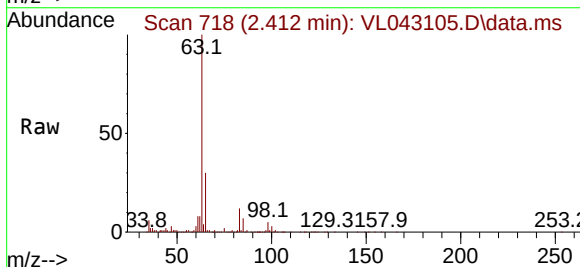
Ion	Ratio	Lower	Upper
43	100		
86	7.7	6.2	9.2
42	9.5	7.6	11.4
44	5.3	4.2	6.4

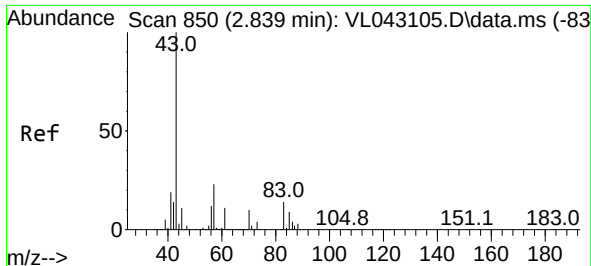


#24
 1,1-Dichloroethane
 Concen: 9.143 ppbv
 RT: 2.412 min Scan# 718
 Delta R.T. 0.000 min
 Lab File: VL043105.D
 Acq: 14 Oct 2025 10:31

Tgt Ion: 63 Resp: 107153

Ion	Ratio	Lower	Upper
63	100		
98	5.2	2.6	7.8
100	2.9	1.5	4.4



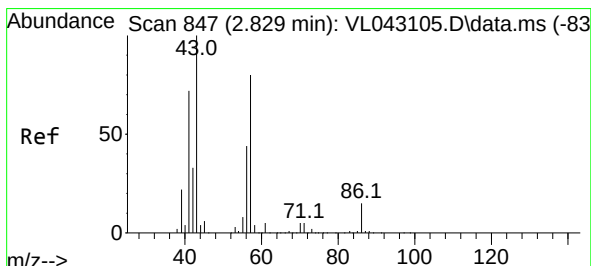
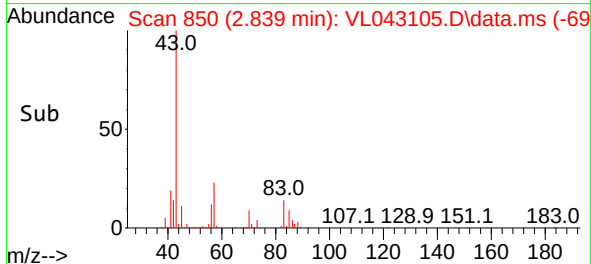
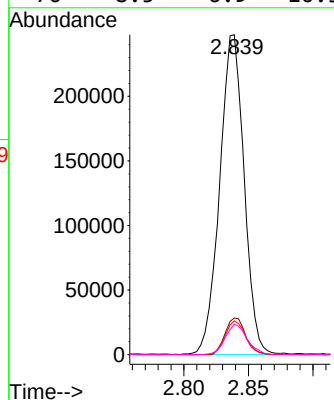
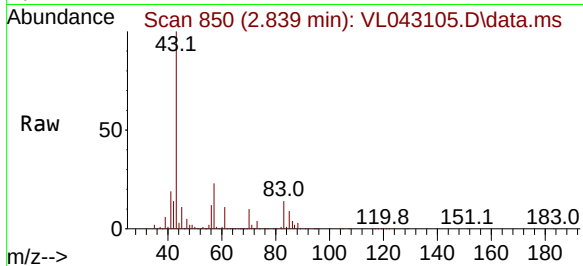


#25
Ethyl Acetate
Concen: 9.371 ppbv
RT: 2.839 min Scan# 850
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 43 Resp: 325662

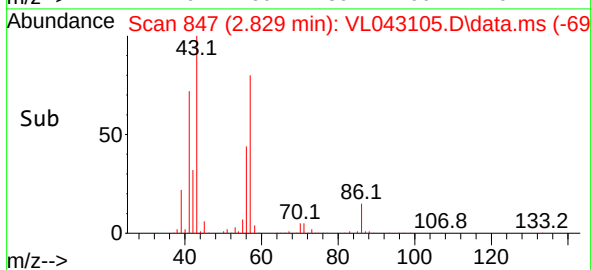
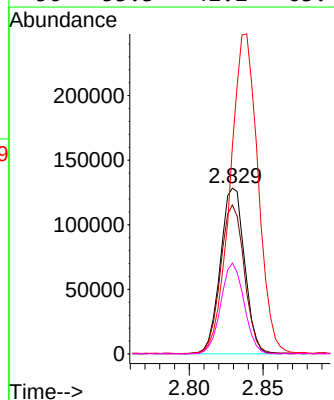
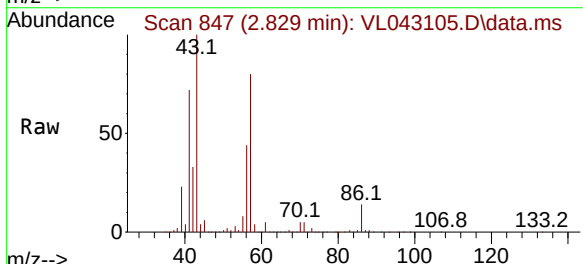
Ion	Ratio	Lower	Upper
43	100		
45	9.8	7.8	11.8
61	8.8	7.0	10.6
70	8.5	6.9	10.3

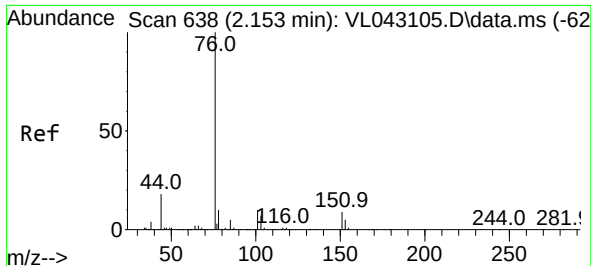


#26
Hexane
Concen: 9.128 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 57 Resp: 146168

Ion	Ratio	Lower	Upper
57	100		
41	90.2	71.4	107.0
43	222.4	178.5	267.7
56	53.3	42.2	63.4

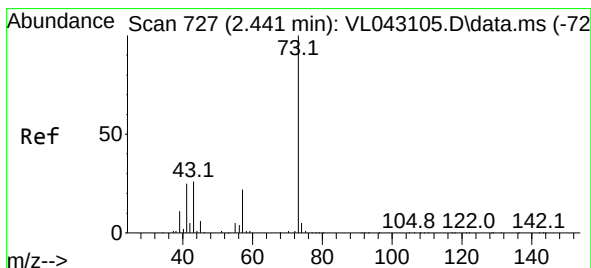
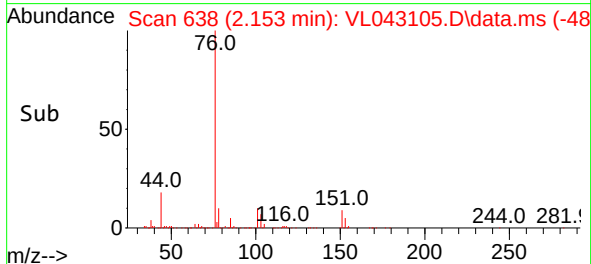
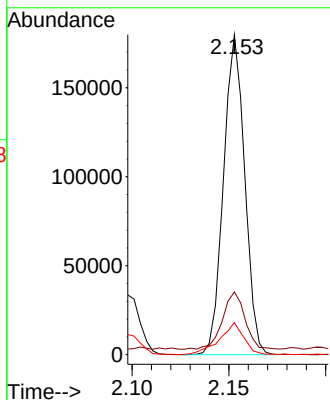
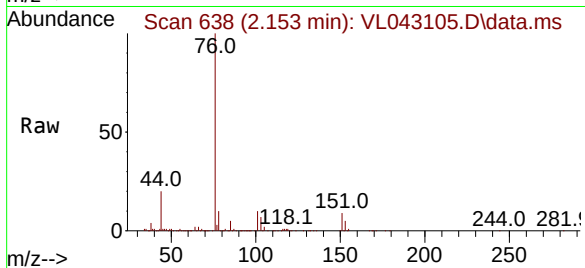




#27
Carbon Disulfide
Concen: 9.319 ppbv
RT: 2.153 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

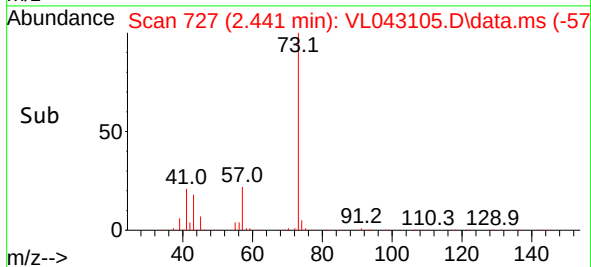
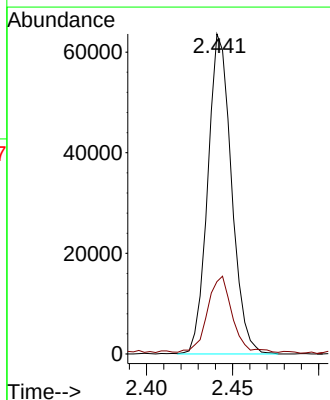
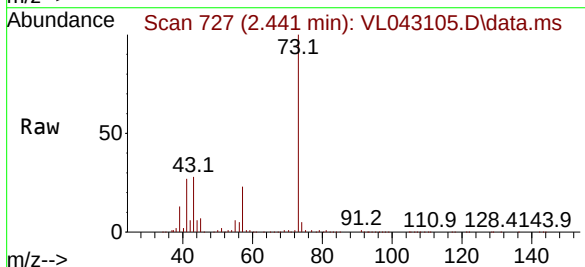
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

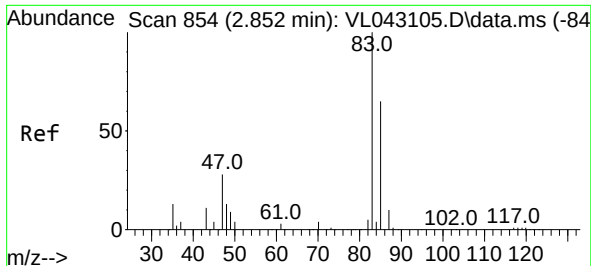
Tgt Ion: 76 Resp: 136729
Ion Ratio Lower Upper
76 100
44 20.1 16.7 25.1
78 11.5 9.3 13.9



#28
Methyl tert-Butyl Ether
Concen: 8.384 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 73 Resp: 61076
Ion Ratio Lower Upper
73 100
57 24.8 20.5 30.7





#29

Chloroform

Concen: 9.097 ppbv

RT: 2.852 min Scan# 854

Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

Instrument :

MSVOA_L

ClientSampleId :

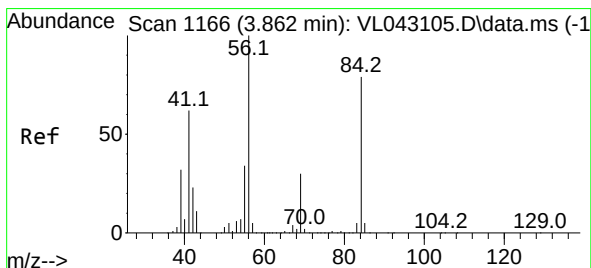
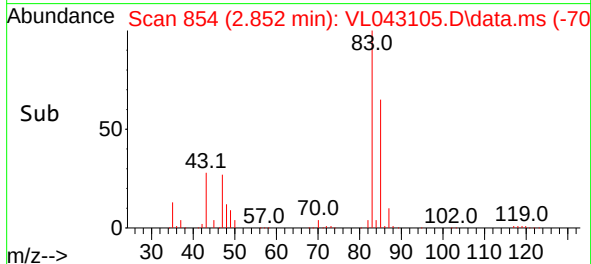
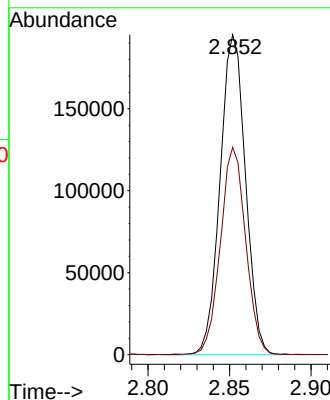
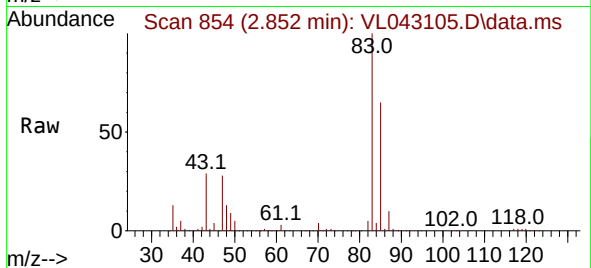
VSTDICCC010

Tgt Ion: 83 Resp: 211071

Ion Ratio Lower Upper

83 100

85 64.7 51.8 77.6



#30

Cyclohexane

Concen: 9.037 ppbv

RT: 3.862 min Scan# 1166

Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

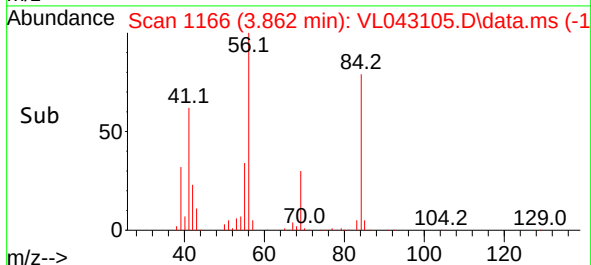
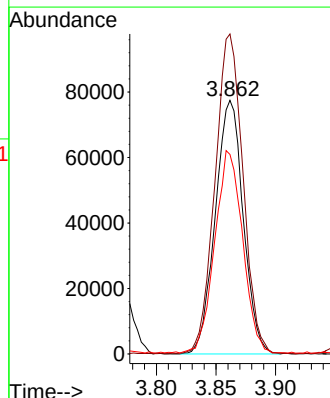
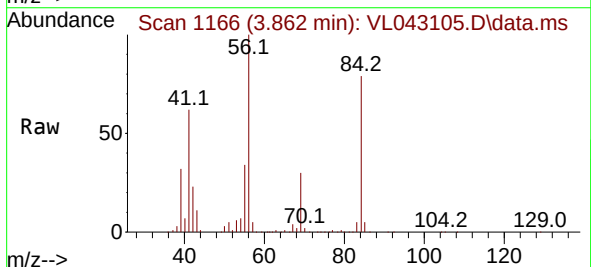
Tgt Ion: 84 Resp: 126226

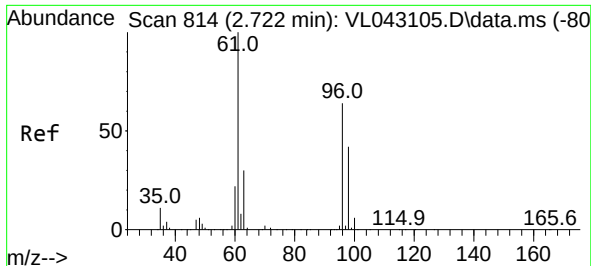
Ion Ratio Lower Upper

84 100

56 126.5 100.9 151.3

41 79.8 63.8 95.6

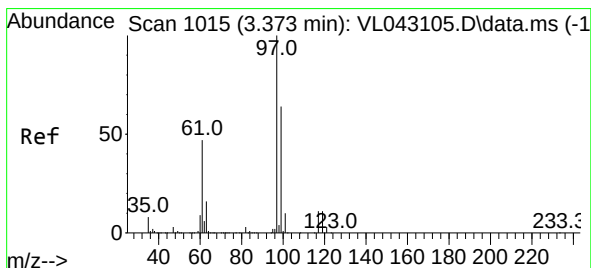
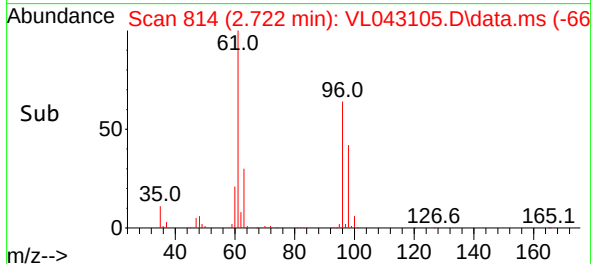
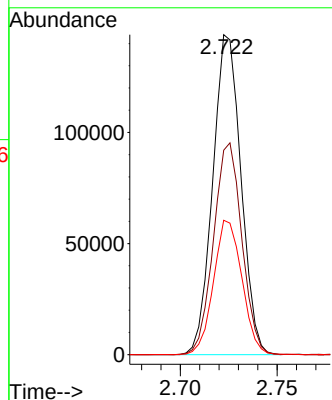
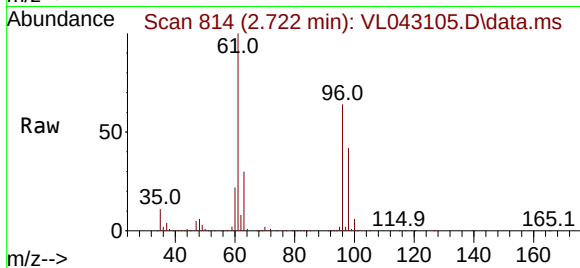




#31
 cis-1,2-Dichloroethene
 Concen: 9.553 ppbv
 RT: 2.722 min Scan# 814
 Delta R.T. 0.000 min
 Lab File: VL043105.D
 Acq: 14 Oct 2025 10:31

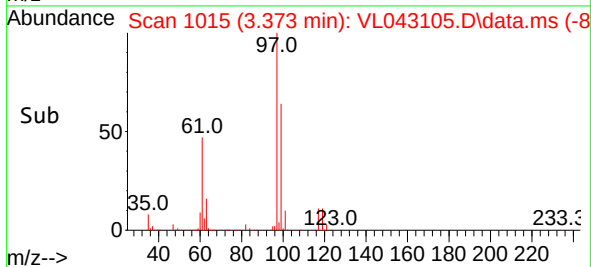
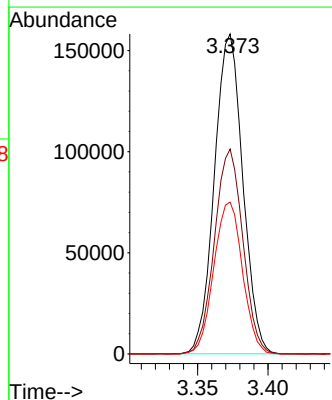
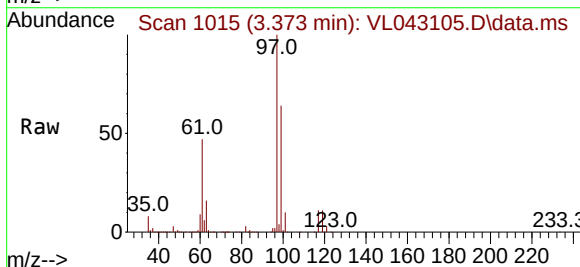
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

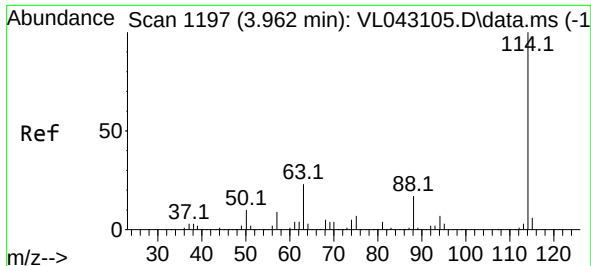
Tgt Ion: 61 Resp: 146072
 Ion Ratio Lower Upper
 61 100
 96 63.8 51.0 76.6
 98 41.9 33.5 50.3



#32
 1,1,1-Trichloroethane
 Concen: 9.189 ppbv
 RT: 3.373 min Scan# 1015
 Delta R.T. 0.000 min
 Lab File: VL043105.D
 Acq: 14 Oct 2025 10:31

Tgt Ion: 97 Resp: 222043
 Ion Ratio Lower Upper
 97 100
 99 64.1 51.3 76.9
 61 48.0 38.4 57.6

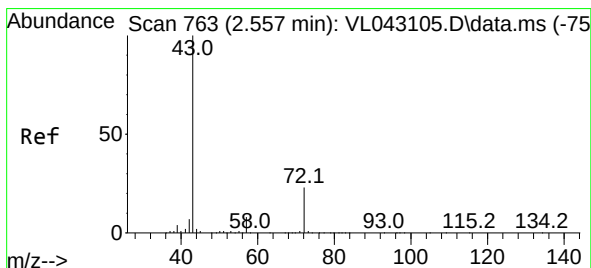
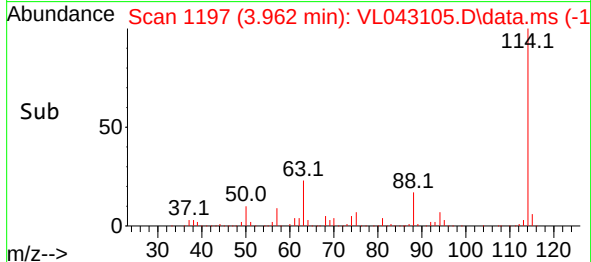
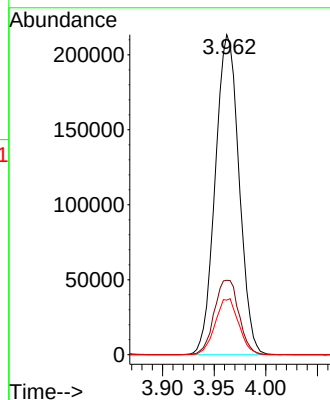
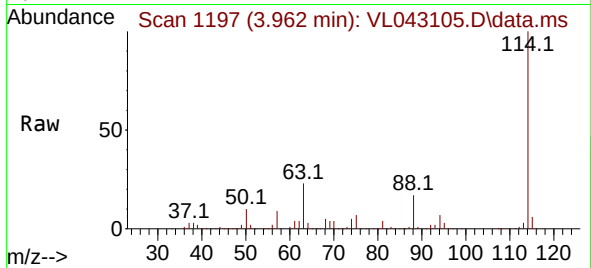




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.962 min Scan# 1197
 Delta R.T. 0.000 min
 Lab File: VL043105.D
 Acq: 14 Oct 2025 10:31

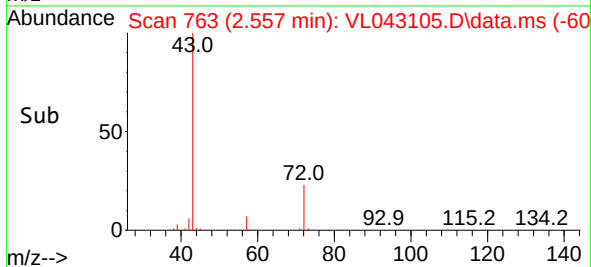
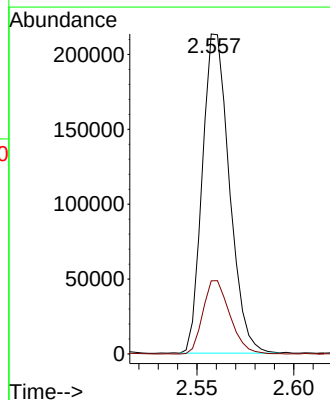
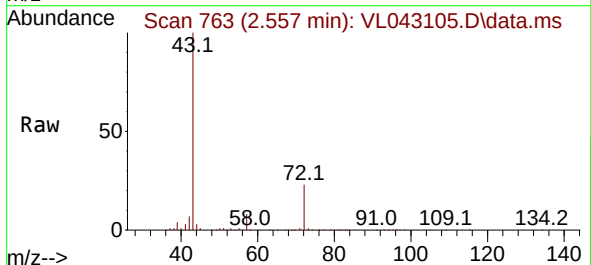
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

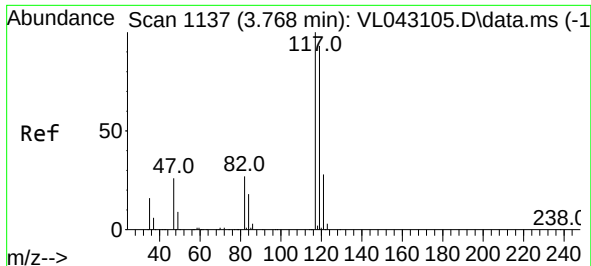
Tgt Ion:114 Resp: 341790
 Ion Ratio Lower Upper
 114 100
 63 24.1 19.3 28.9
 88 17.4 13.9 20.9



#34
 2-Butanone
 Concen: 8.971 ppbv
 RT: 2.557 min Scan# 763
 Delta R.T. 0.000 min
 Lab File: VL043105.D
 Acq: 14 Oct 2025 10:31

Tgt Ion: 43 Resp: 207274
 Ion Ratio Lower Upper
 43 100
 72 22.8 18.4 27.6

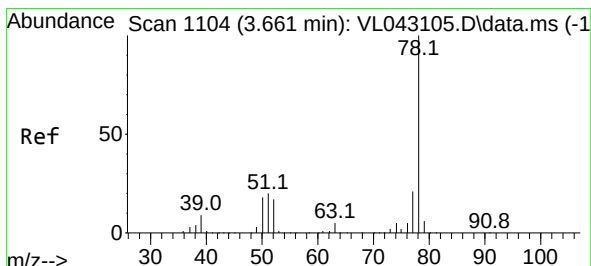
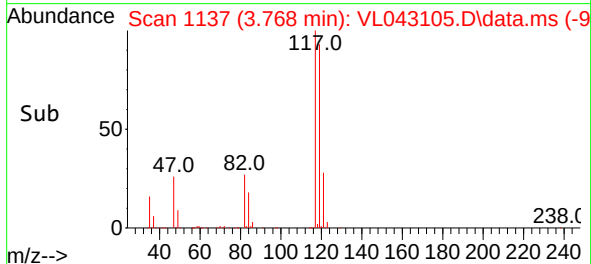
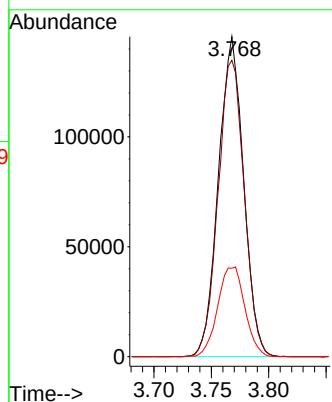
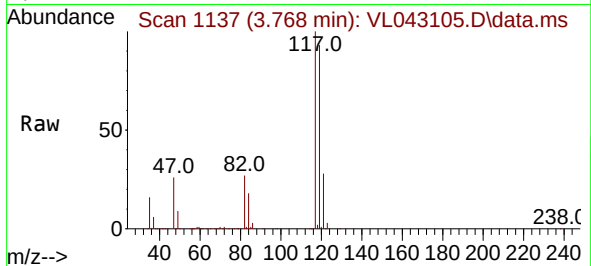




#35
Carbon Tetrachloride
Concen: 9.032 ppbv
RT: 3.768 min Scan# 1137
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

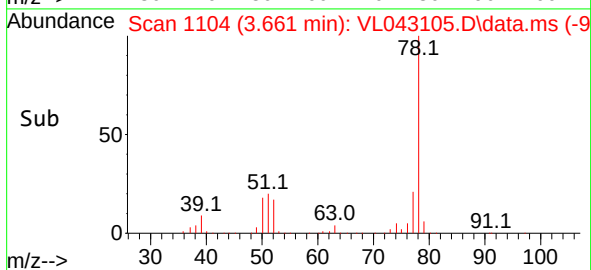
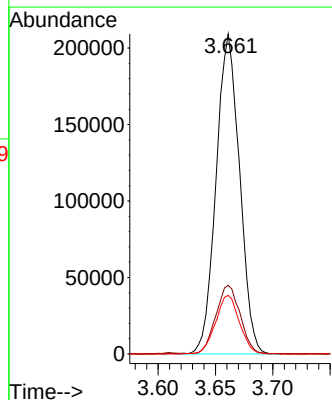
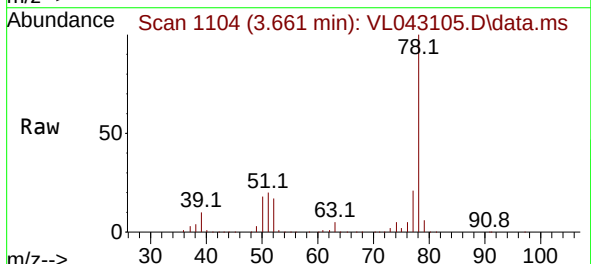
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

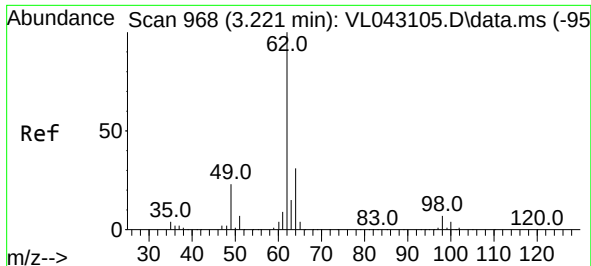
Tgt Ion:117 Resp: 221937
Ion Ratio Lower Upper
117 100
119 92.6 74.1 111.1
121 27.7 22.2 33.2



#36
Benzene
Concen: 9.246 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 78 Resp: 297653
Ion Ratio Lower Upper
78 100
77 21.3 17.0 25.6
50 18.3 14.6 22.0

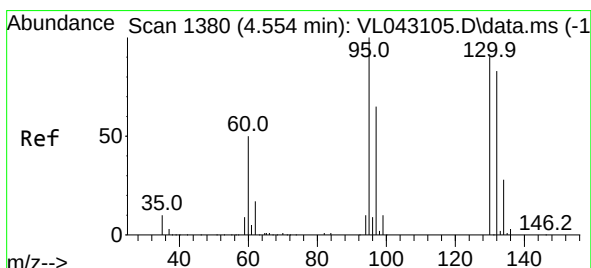
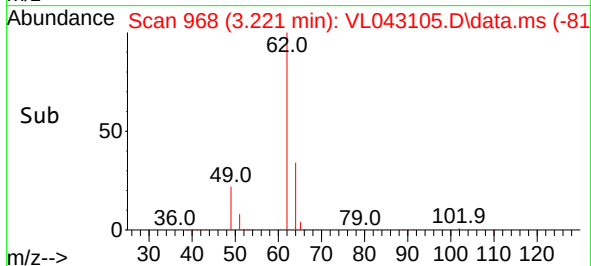
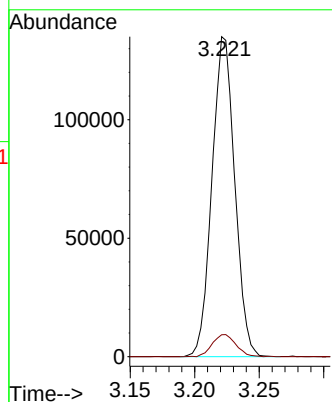
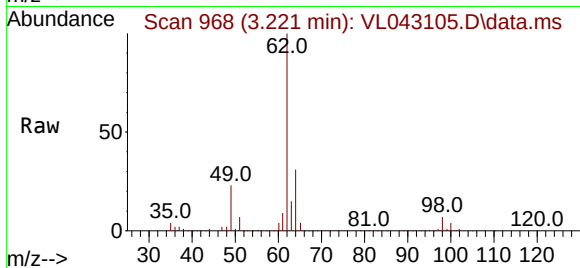




#37
1,2-Dichloroethane
Concen: 8.946 ppbv
RT: 3.221 min Scan# 968
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

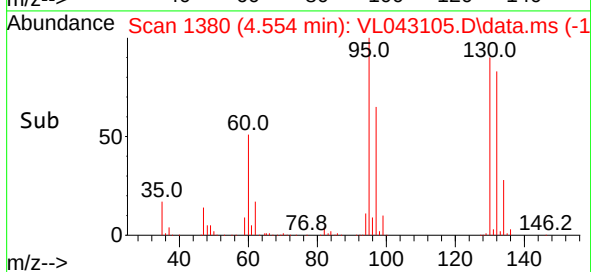
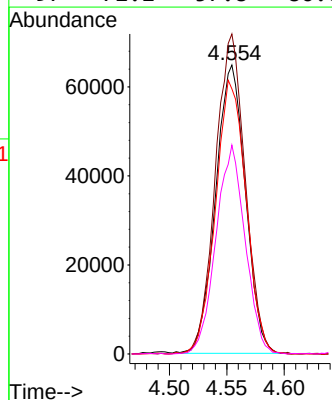
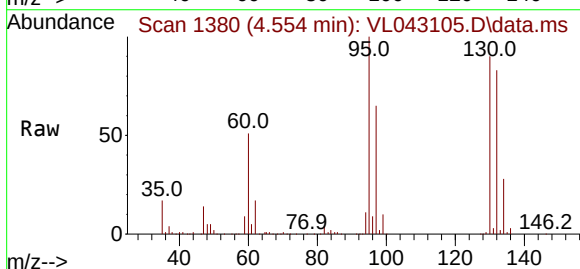
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

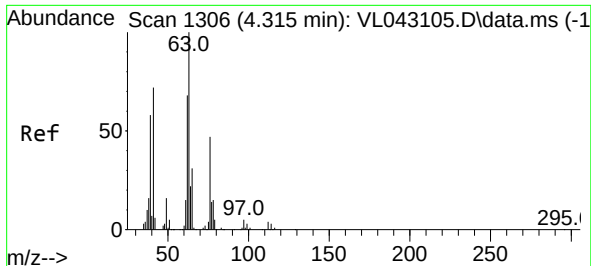
Tgt Ion: 62 Resp: 165898
Ion Ratio Lower Upper
62 100
98 7.2 5.8 8.6



#38
Trichloroethene
Concen: 8.708 ppbv
RT: 4.554 min Scan# 1380
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion:130 Resp: 116947
Ion Ratio Lower Upper
130 100
95 110.8 88.6 133.0
132 91.7 73.4 110.0
97 72.2 57.8 86.6

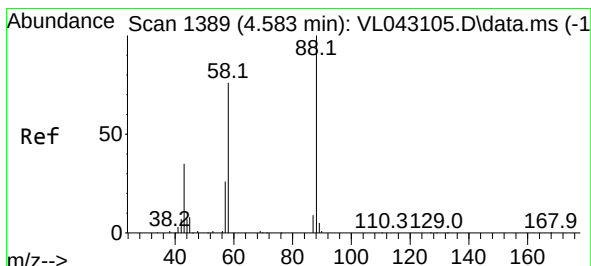
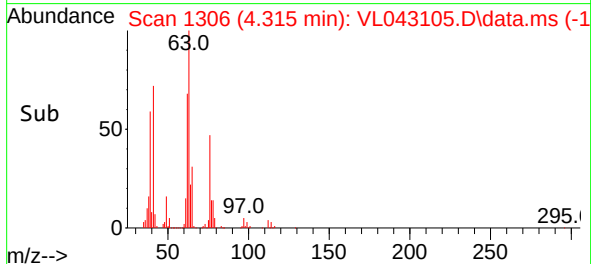
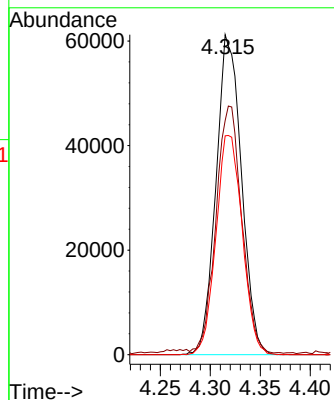
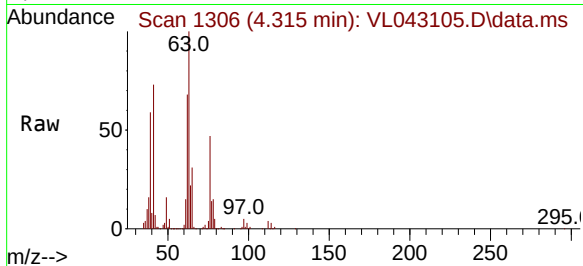




#39
1,2-Dichloropropane
Concen: 9.207 ppbv
RT: 4.315 min Scan# 1306
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

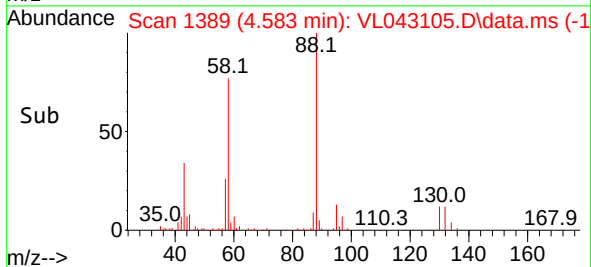
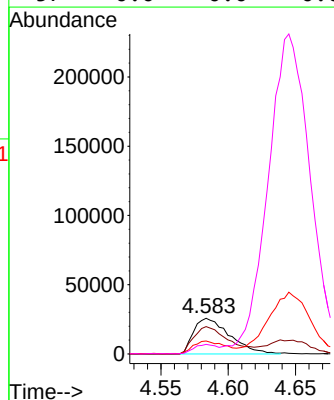
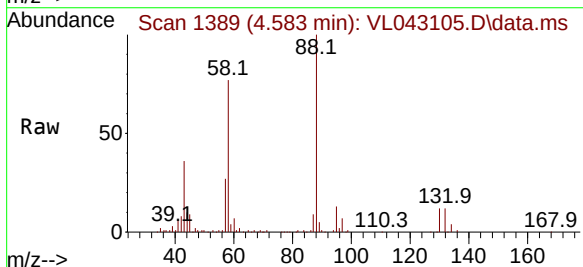
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

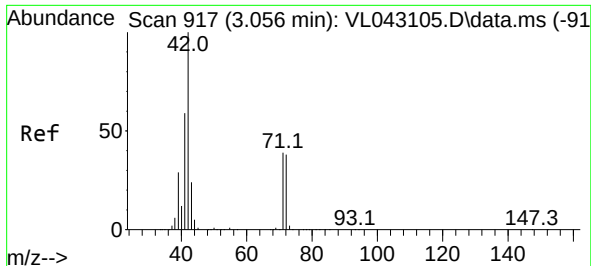
Tgt Ion: 63 Resp: 108446
Ion Ratio Lower Upper
63 100
41 72.5 58.0 87.0
62 68.4 54.7 82.1



#40
1,4-Dioxane
Concen: 9.153 ppbv
RT: 4.583 min Scan# 1389
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 88 Resp: 48201
Ion Ratio Lower Upper
88 100
58 74.3 61.1 91.7
43 33.3 24.0 36.0
57 0.0 0.0 0.0

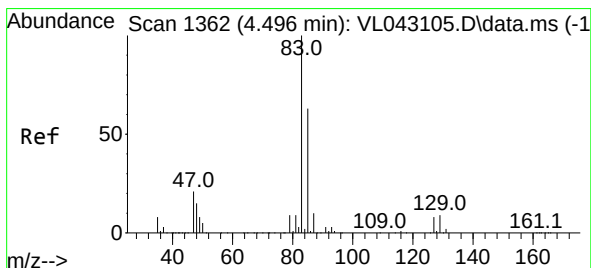
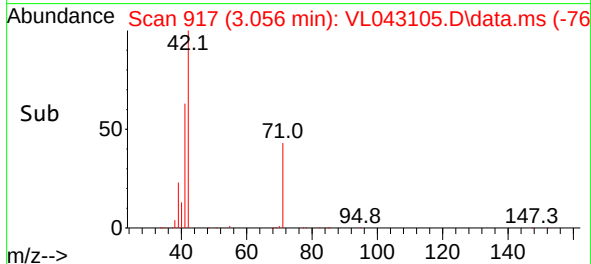
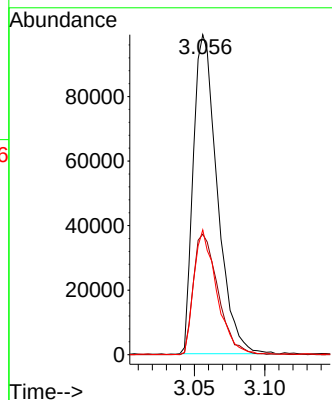
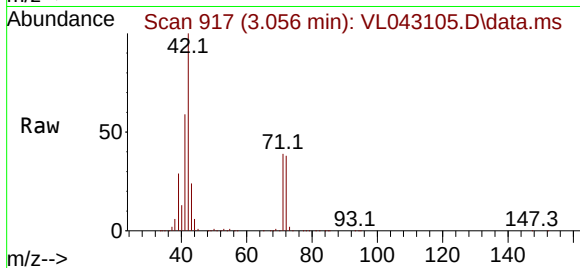




#41
Tetrahydrofuran
Concen: 9.076 ppbv
RT: 3.056 min Scan# 917
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

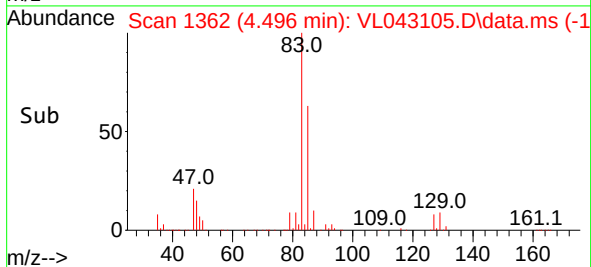
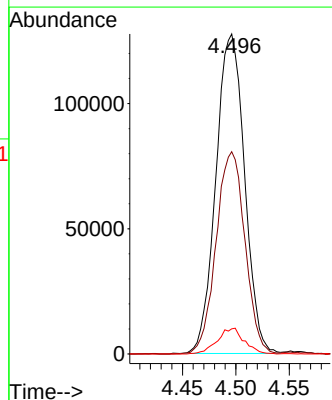
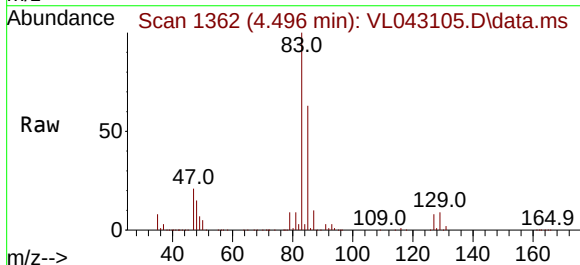
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

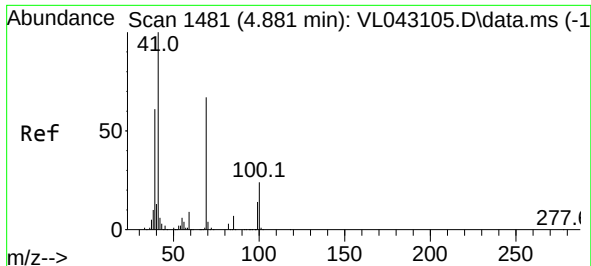
Tgt Ion: 42 Resp: 117069
Ion Ratio Lower Upper
42 100
72 39.1 31.3 46.9
71 37.8 30.4 45.6



#42
Bromodichloromethane
Concen: 9.286 ppbv
RT: 4.496 min Scan# 1362
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 83 Resp: 238353
Ion Ratio Lower Upper
83 100
85 63.2 50.6 75.8
127 7.9 6.3 9.5

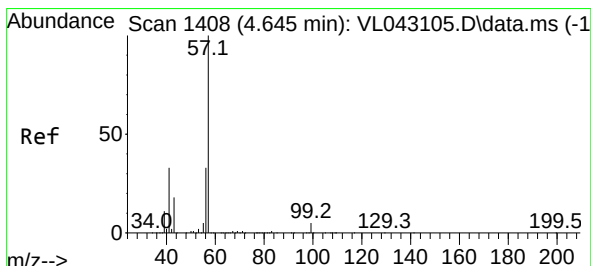
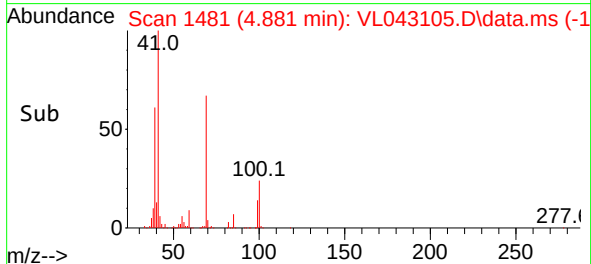
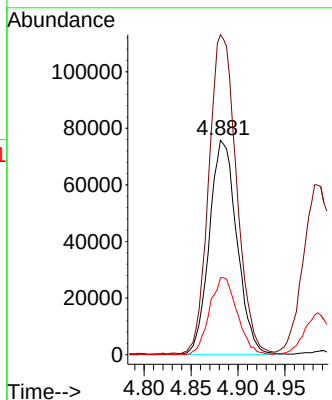
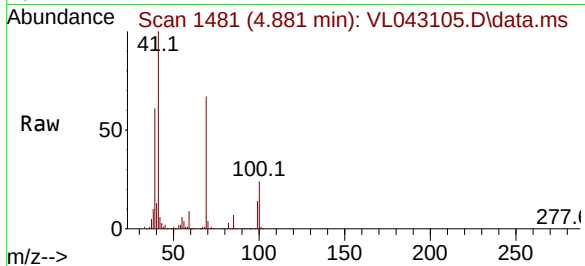




#43
Methyl Methacrylate
Concen: 9.371 ppbv
RT: 4.881 min Scan# 1481
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

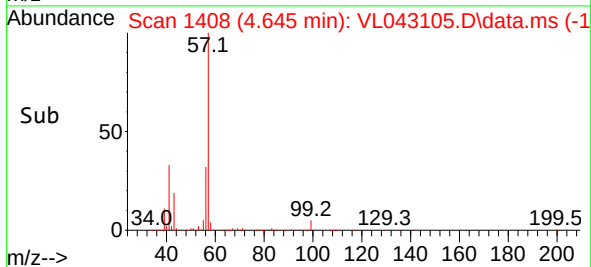
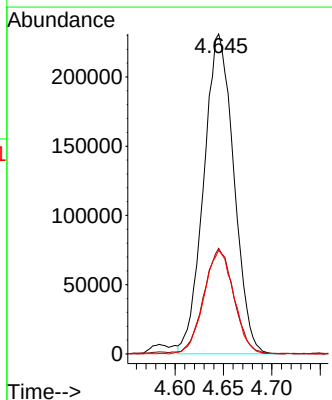
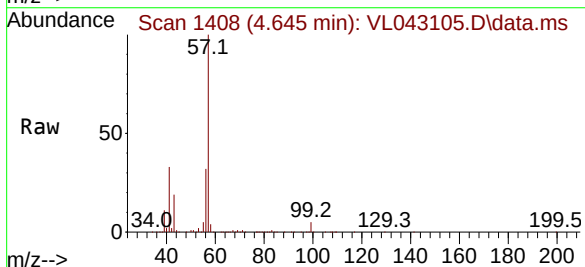
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

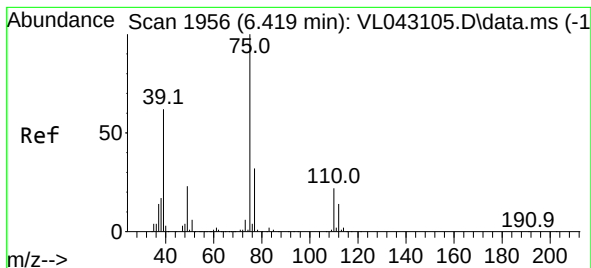
Tgt Ion: 69 Resp: 153927
Ion Ratio Lower Upper
69 100
41 149.8 120.5 180.7
100 36.2 29.0 43.4



#44
2,2,4-Trimethylpentane
Concen: 9.273 ppbv
RT: 4.645 min Scan# 1408
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 57 Resp: 499148
Ion Ratio Lower Upper
57 100
41 33.2 26.3 39.5
56 32.1 25.9 38.9





#45

t-1,3-Dichloropropene

Concen: 9.620 ppbv

RT: 6.419 min Scan# 1956

Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

Instrument :

MSVOA_L

ClientSampleId :

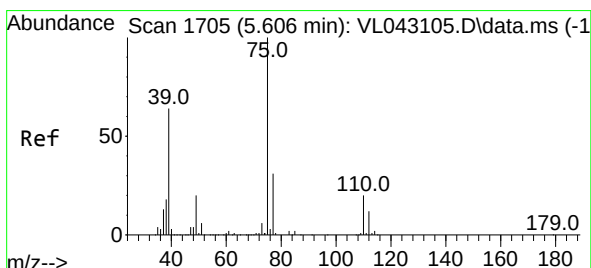
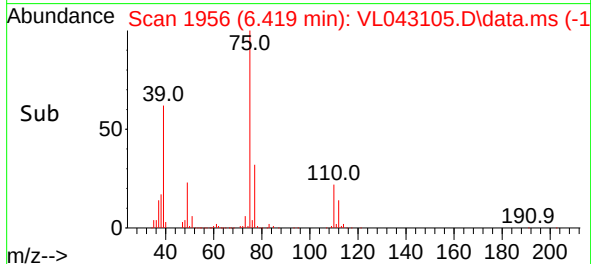
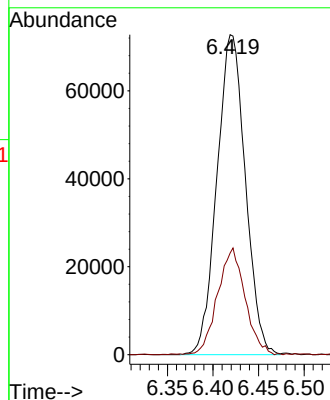
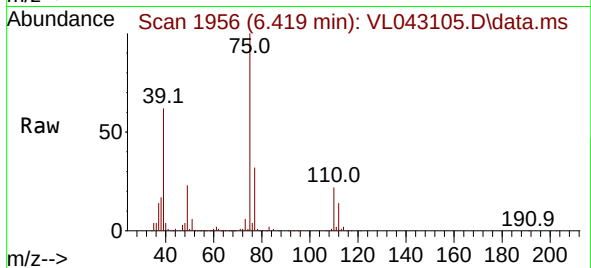
VSTDICCC010

Tgt Ion: 75 Resp: 157856

Ion Ratio Lower Upper

75 100

77 31.8 25.4 38.2



#46

cis-1,3-Dichloropropene

Concen: 9.525 ppbv

RT: 5.606 min Scan# 1705

Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

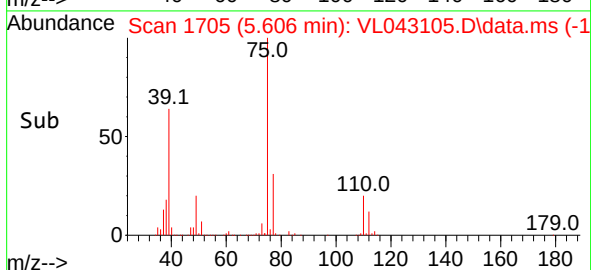
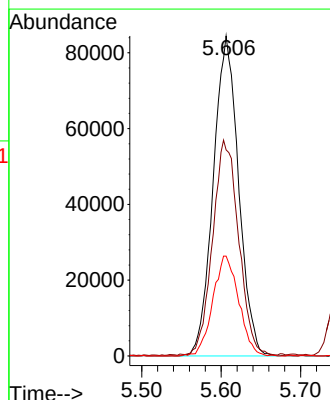
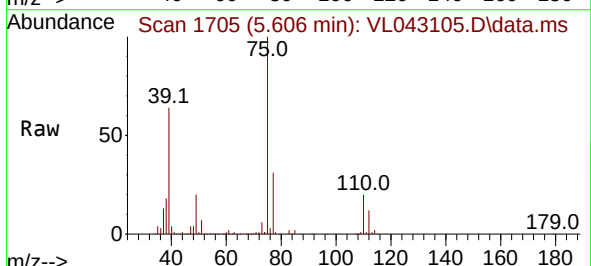
Tgt Ion: 75 Resp: 186533

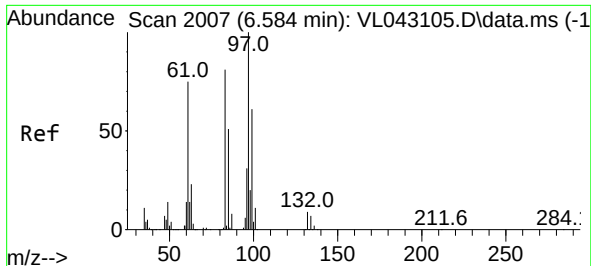
Ion Ratio Lower Upper

75 100

39 63.8 51.0 76.6

77 31.2 25.0 37.4

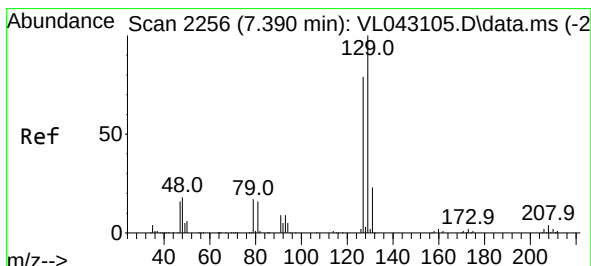
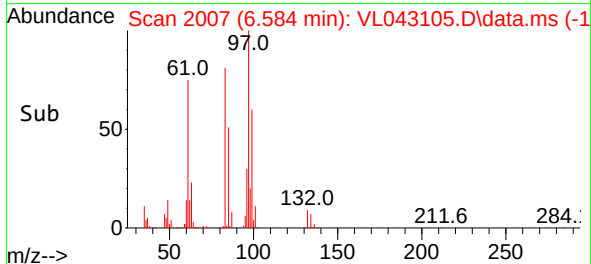
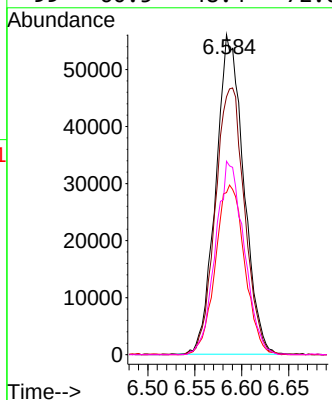
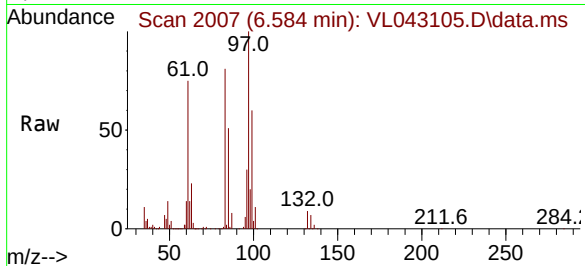




#47
 1,1,2-Trichloroethane
 Concen: 9.082 ppbv
 RT: 6.584 min Scan# 2007
 Delta R.T. 0.000 min
 Lab File: VL043105.D
 Acq: 14 Oct 2025 10:31

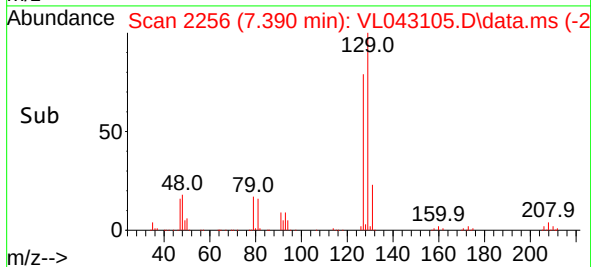
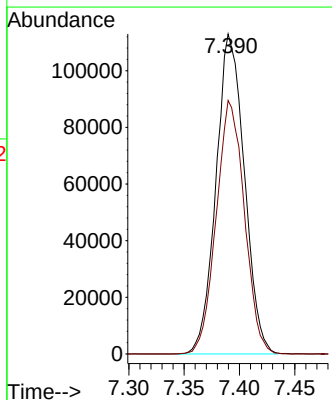
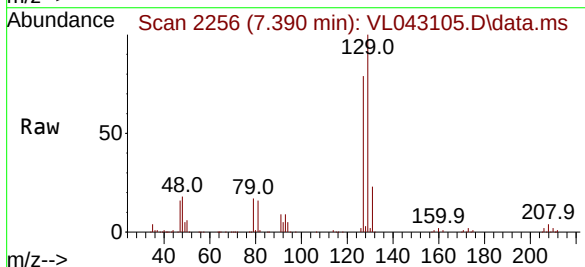
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

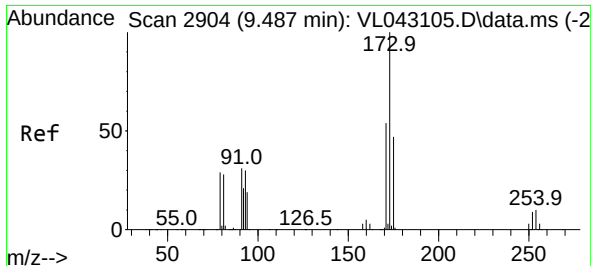
Tgt Ion: 97	Resp: 115419
Ion Ratio	Lower Upper
97 100	
83 80.7	64.6 96.8
85 50.7	40.6 60.8
99 60.5	48.4 72.6



#48
 Dibromochloromethane
 Concen: 9.476 ppbv
 RT: 7.390 min Scan# 2256
 Delta R.T. 0.000 min
 Lab File: VL043105.D
 Acq: 14 Oct 2025 10:31

Tgt Ion:129	Resp: 201349
Ion Ratio	Lower Upper
129 100	
127 78.6	39.3 117.9

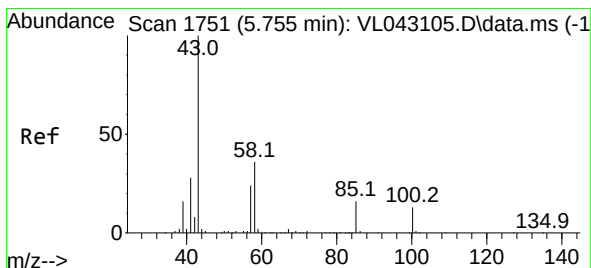
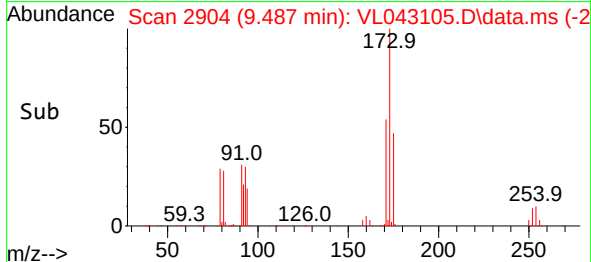
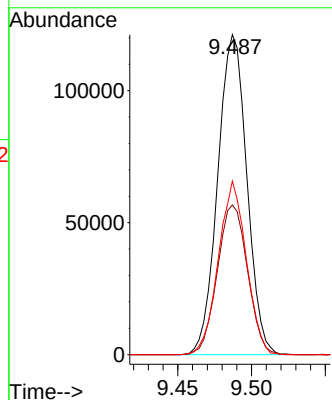
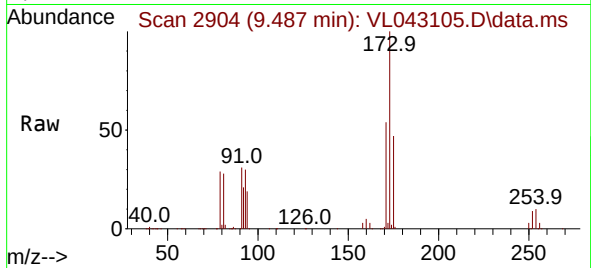




#49
Bromoform
Concen: 9.633 ppbv
RT: 9.487 min Scan# 2904
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

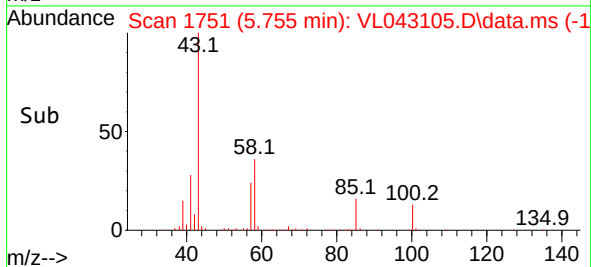
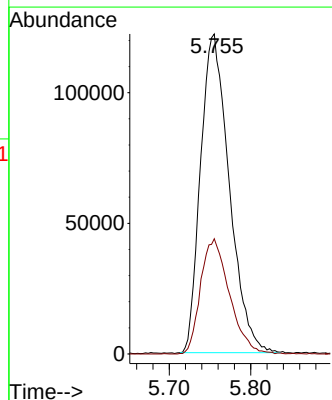
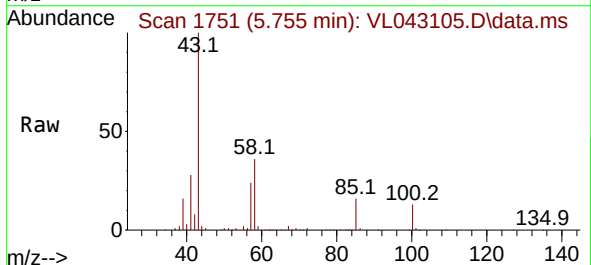
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

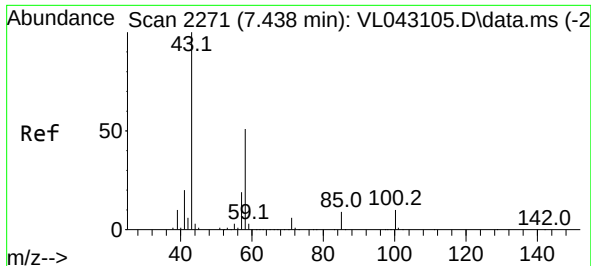
Tgt Ion:173 Resp: 166377
Ion Ratio Lower Upper
173 100
175 48.5 38.8 58.2
171 52.1 41.7 62.5



#50
4-Methyl-2-Pentanone
Concen: 9.362 ppbv
RT: 5.755 min Scan# 1751
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 43 Resp: 298401
Ion Ratio Lower Upper
43 100
58 36.3 29.1 43.7

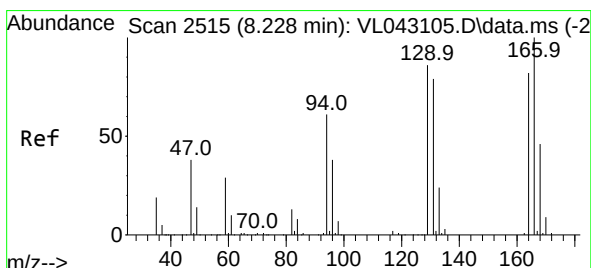
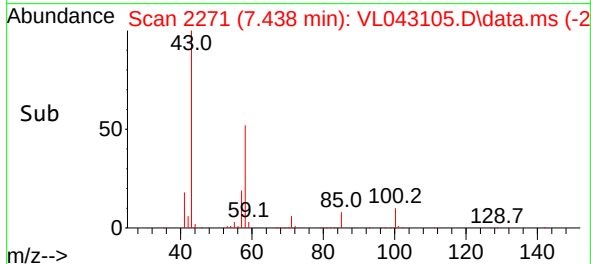
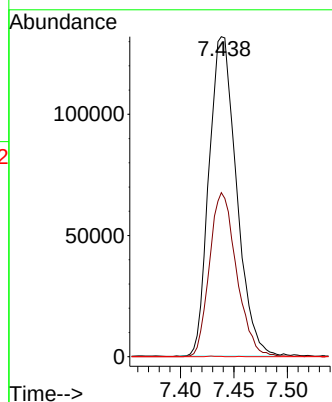
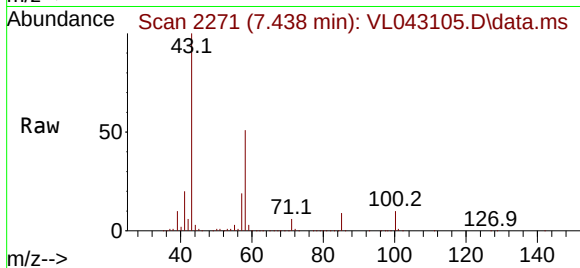




#51
2-Hexanone
Concen: 9.940 ppbv
RT: 7.438 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

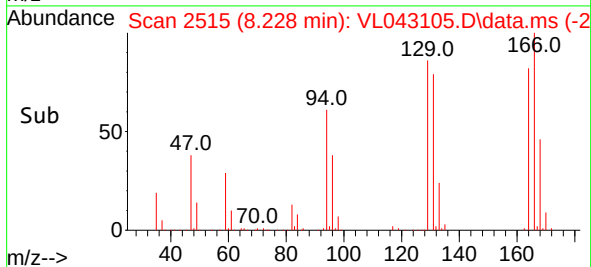
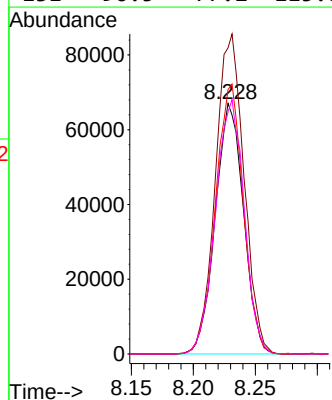
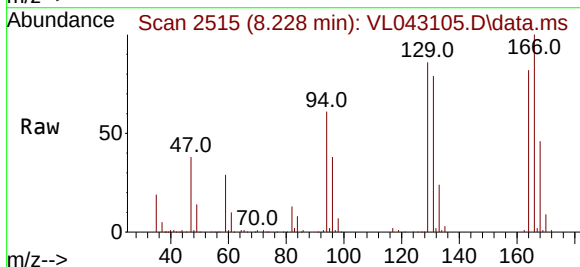
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

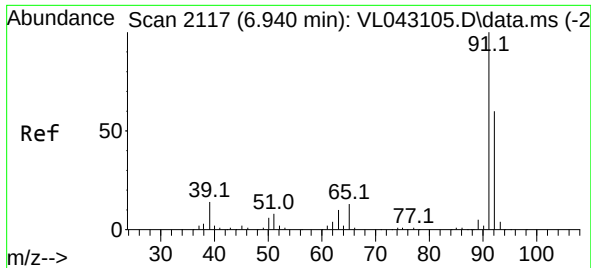
Tgt Ion: 43 Resp: 236391
Ion Ratio Lower Upper
43 100
58 50.6 40.4 60.6
98 0.1 0.1 0.1



#52
Tetrachloroethene
Concen: 9.192 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 164 Resp: 106710
Ion Ratio Lower Upper
164 100
166 122.0 97.6 146.4
129 105.6 84.5 126.7
131 96.5 77.2 115.8

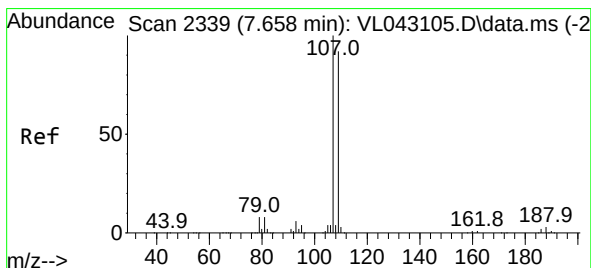
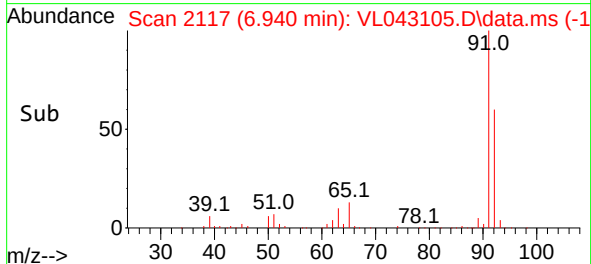
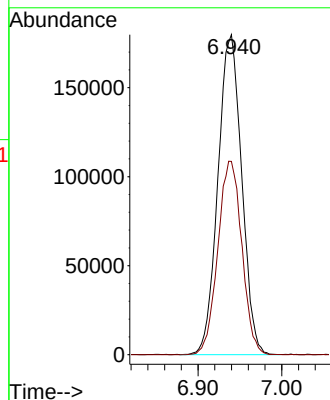
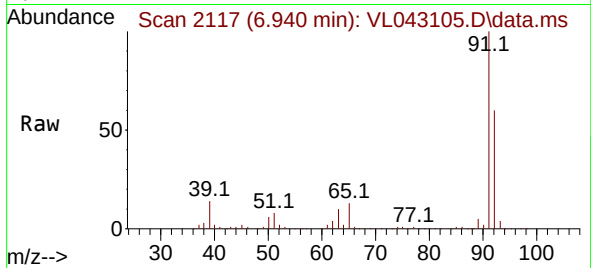




#53
Toluene
Concen: 9.266 ppbv
RT: 6.940 min Scan# 2117
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

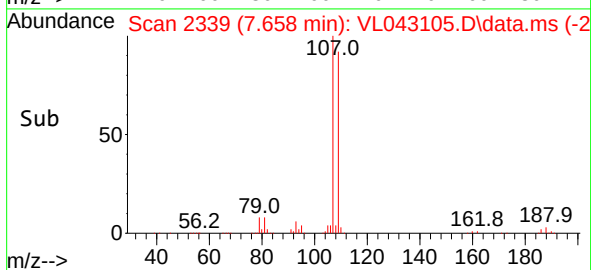
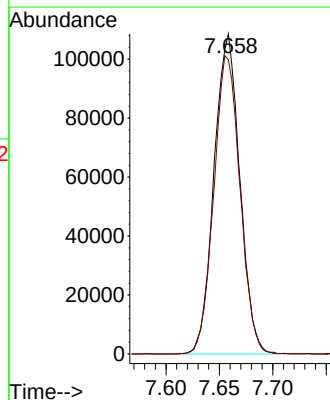
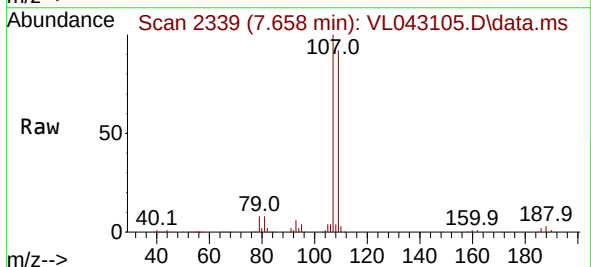
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

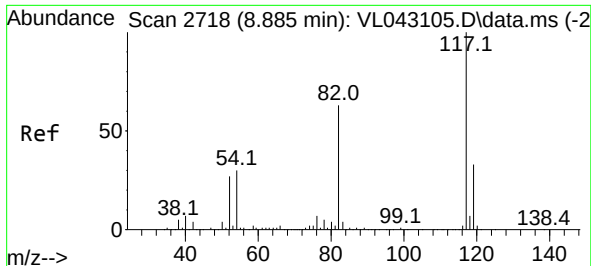
Tgt Ion: 91 Resp: 354007
Ion Ratio Lower Upper
91 100
92 61.0 48.8 73.2



#54
1,2-Dibromoethane
Concen: 9.080 ppbv
RT: 7.658 min Scan# 2339
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 107 Resp: 182074
Ion Ratio Lower Upper
107 100
109 91.8 73.4 110.2

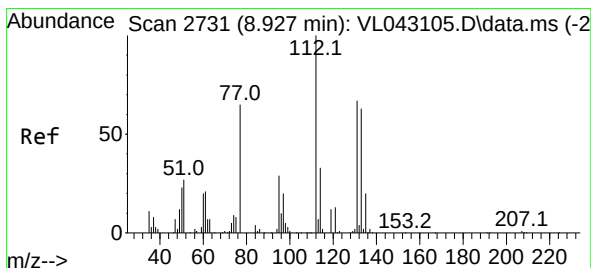
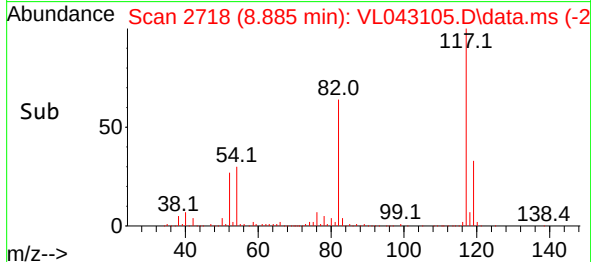
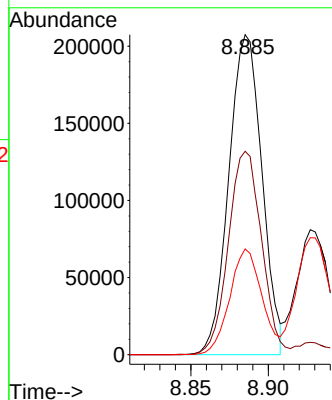
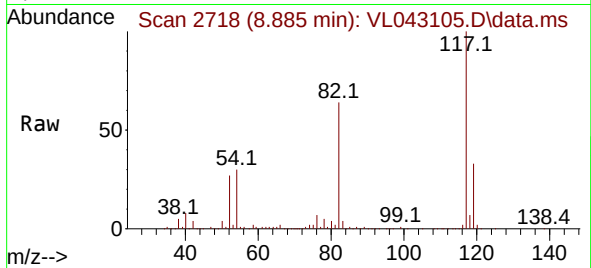




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

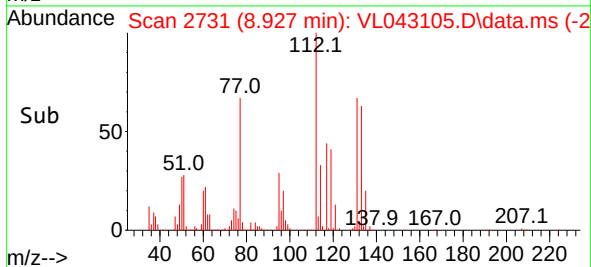
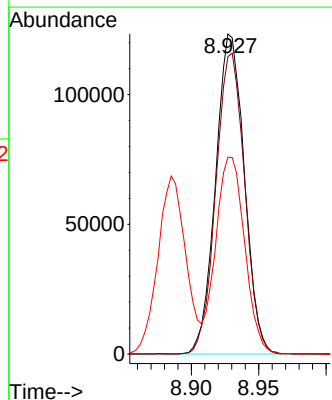
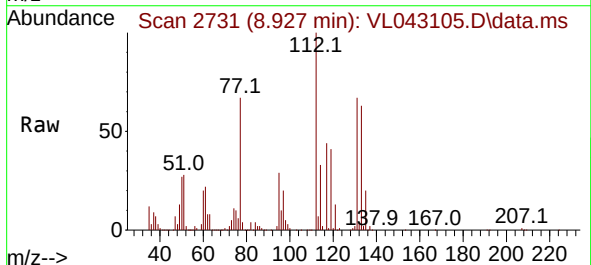
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

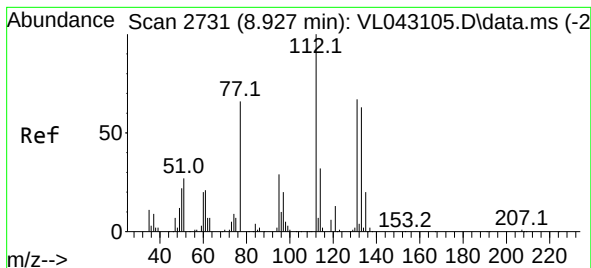
Tgt Ion:117 Resp: 309230
Ion Ratio Lower Upper
117 100
82 67.3 53.8 80.8
119 33.4 25.4 38.0



#56
1,1,1,2-Tetrachloroethane
Concen: 9.367 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion:131 Resp: 182585
Ion Ratio Lower Upper
131 100
133 94.6 75.7 113.5
119 63.3 50.6 76.0





#57

Chlorobenzene

Concen: 9.076 ppbv

RT: 8.927 min Scan# 21

Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

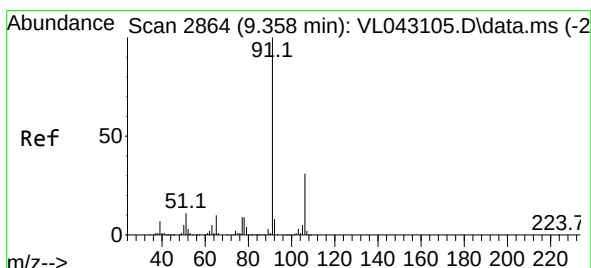
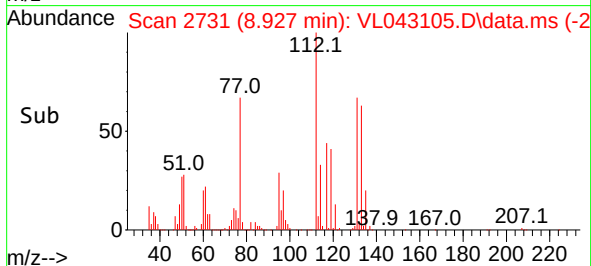
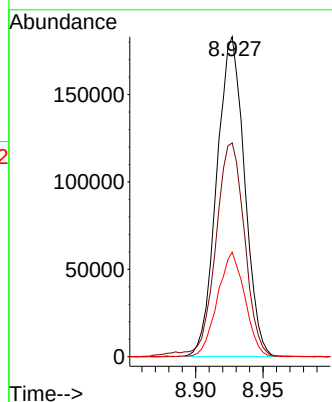
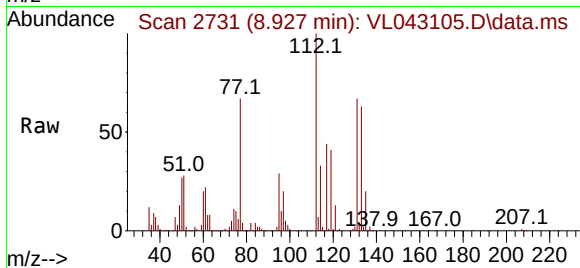
Tgt Ion:112 Resp: 262566

Ion Ratio Lower Upper

112 100

77 66.6 53.3 79.9

114 32.5 29.3 35.8



#58

Ethyl Benzene

Concen: 9.241 ppbv

RT: 9.358 min Scan# 2864

Delta R.T. 0.000 min

Lab File: VL043105.D

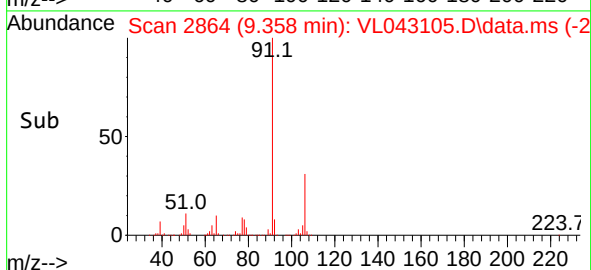
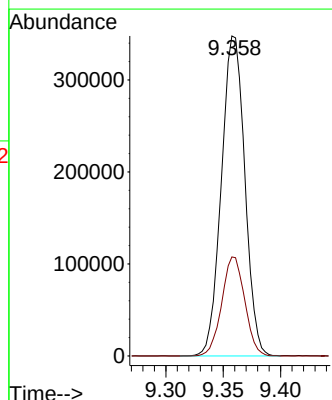
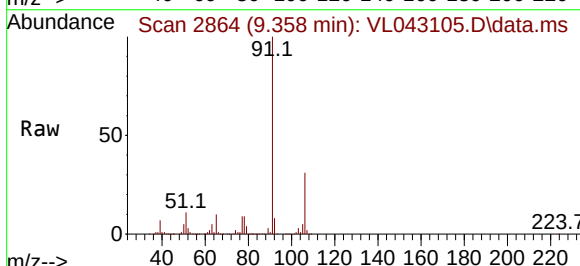
Acq: 14 Oct 2025 10:31

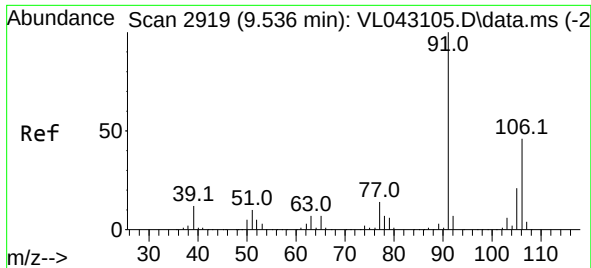
Tgt Ion: 91 Resp: 494344

Ion Ratio Lower Upper

91 100

106 31.0 24.8 37.2

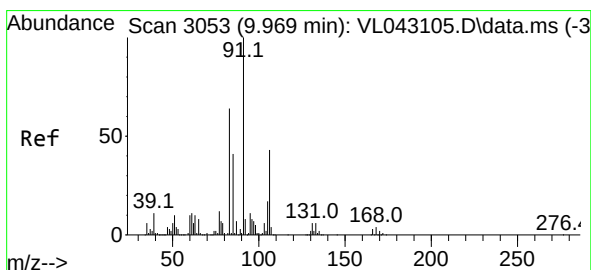
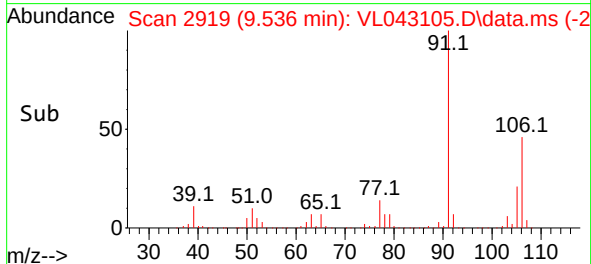
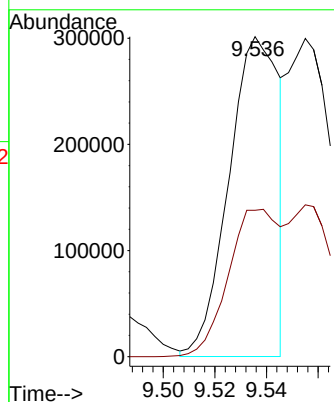
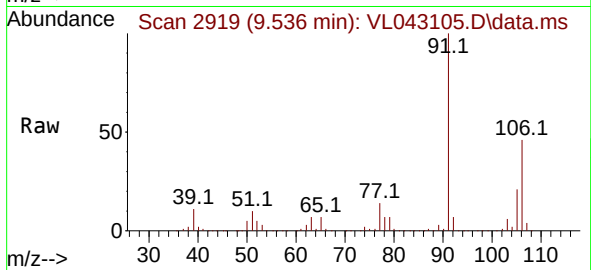




#59
 m/p-Xylene
 Concen: 9.529 ppbv
 RT: 9.536 min Scan# 2919
 Delta R.T. 0.000 min
 Lab File: VL043105.D
 Acq: 14 Oct 2025 10:31

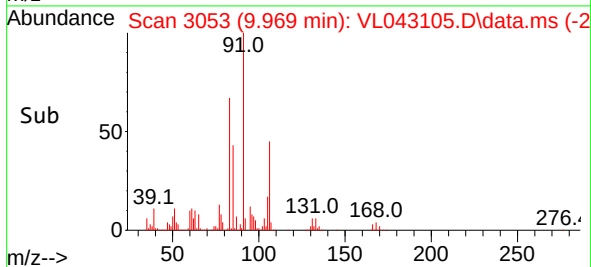
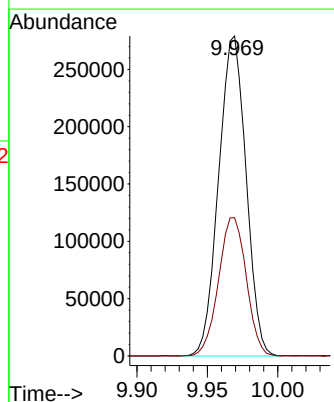
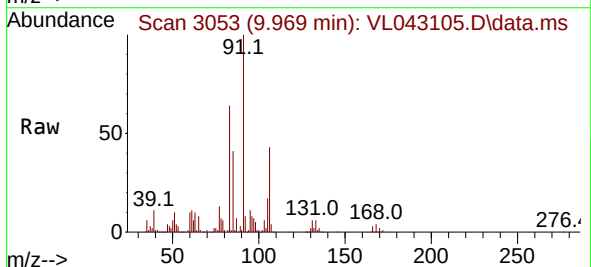
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

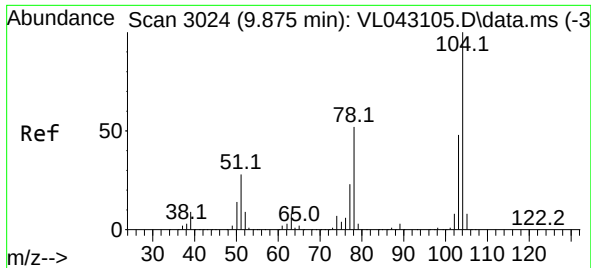
Tgt Ion: 91 Resp: 403670
 Ion Ratio Lower Upper
 91 100
 106 0.0 38.0 57.0#



#60
 o-Xylene
 Concen: 9.053 ppbv
 RT: 9.969 min Scan# 3053
 Delta R.T. 0.000 min
 Lab File: VL043105.D
 Acq: 14 Oct 2025 10:31

Tgt Ion: 91 Resp: 378462
 Ion Ratio Lower Upper
 91 100
 106 43.9 21.9 65.8

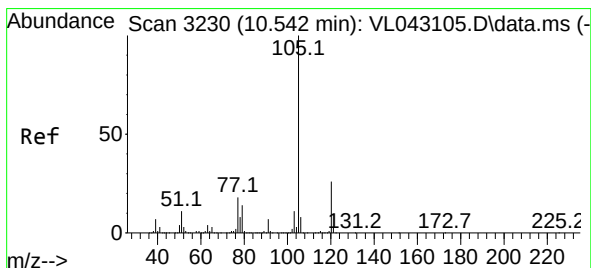
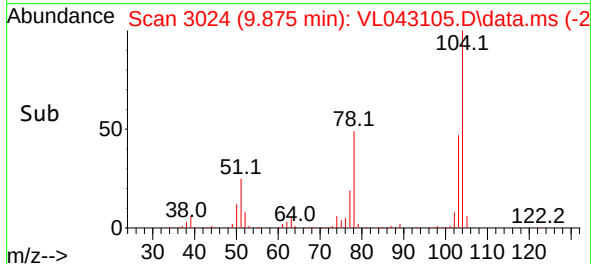
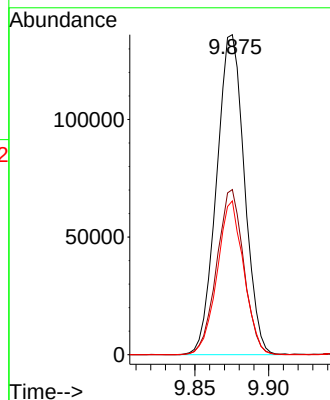
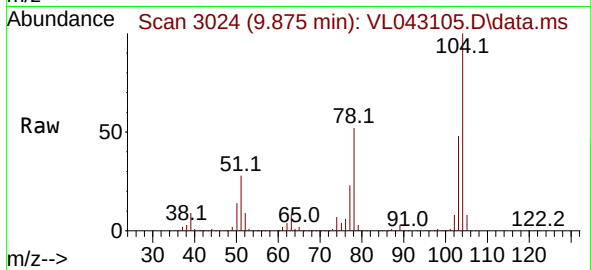




#61
Styrene
Concen: 9.477 ppbv
RT: 9.875 min Scan# 3024
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

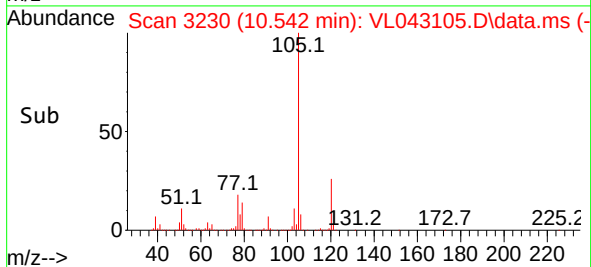
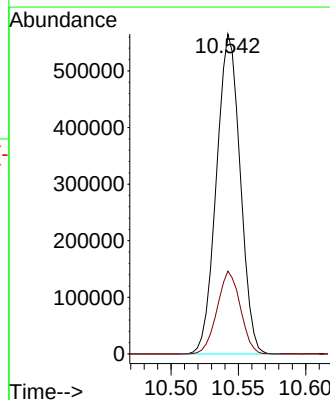
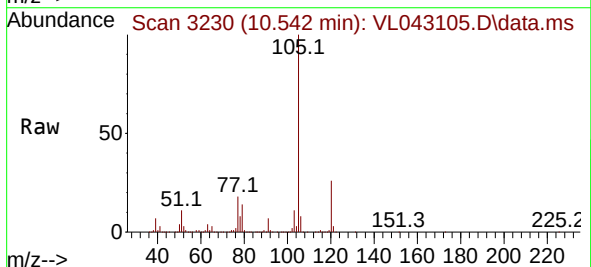
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

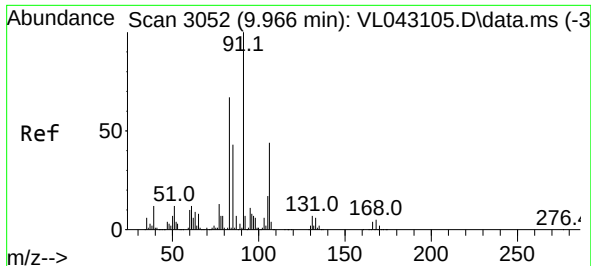
Tgt Ion:104 Resp: 178859
Ion Ratio Lower Upper
104 100
78 50.2 40.2 60.2
103 46.1 36.9 55.3



#62
Isopropylbenzene
Concen: 9.173 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion:105 Resp: 692992
Ion Ratio Lower Upper
105 100
120 25.3 20.2 30.4

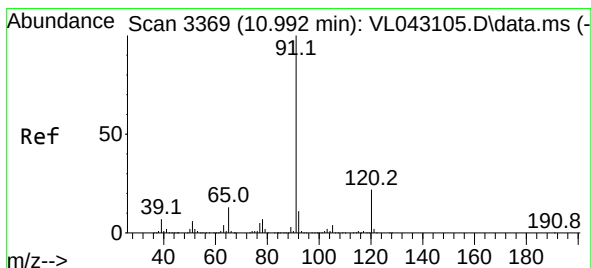
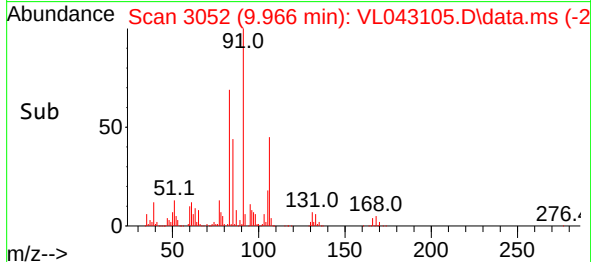
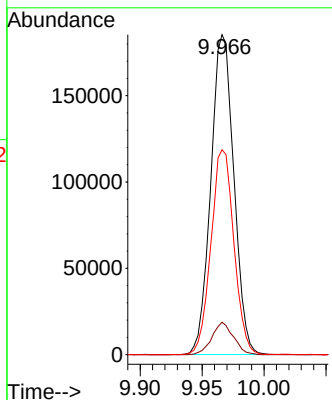
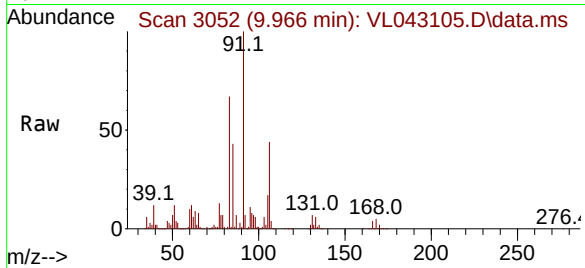




#63
1,1,2,2-Tetrachloroethane
Concen: 8.582 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

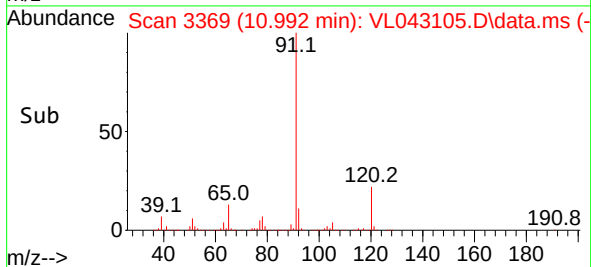
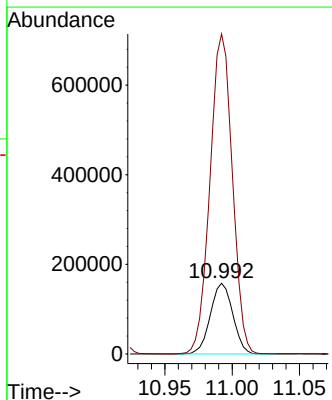
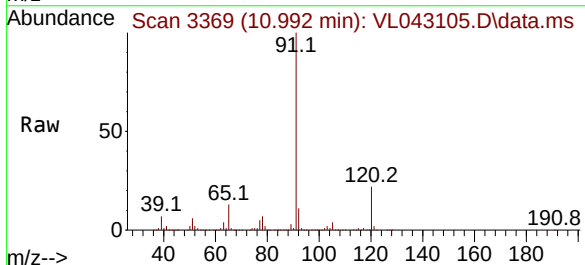
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

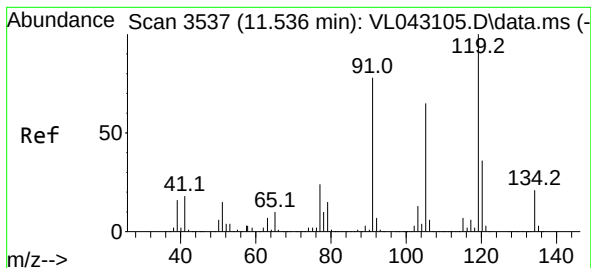
Tgt Ion: 83 Resp: 240245
Ion Ratio Lower Upper
83 100
131 9.5 4.8 14.3
85 64.0 32.0 96.0



#64
n-propylbenzene
Concen: 9.112 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 120 Resp: 182233
Ion Ratio Lower Upper
120 100
91 452.0 361.6 542.4





#65

tert-Butylbenzene

Concen: 8.810 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

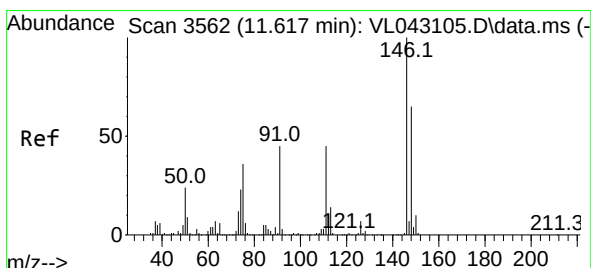
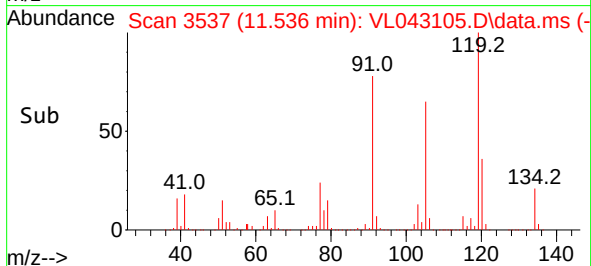
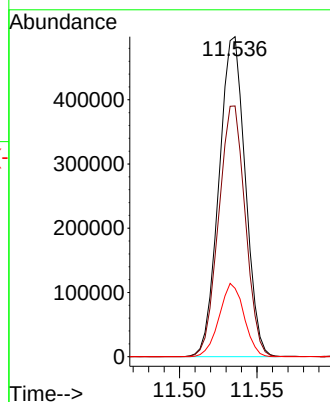
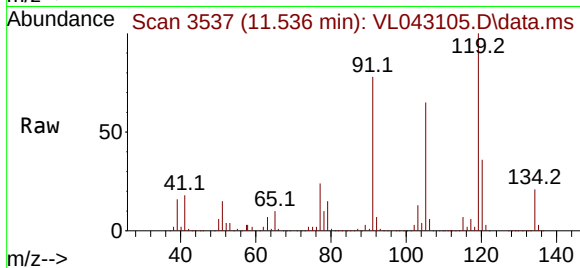
Tgt Ion:119 Resp: 587750

Ion Ratio Lower Upper

119 100

91 79.1 63.4 95.0

134 21.6 17.3 25.9



#66

Benzyl Chloride

Concen: 10.009 ppbv

RT: 11.617 min Scan# 3562

Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

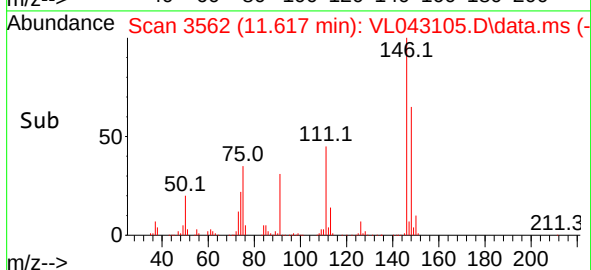
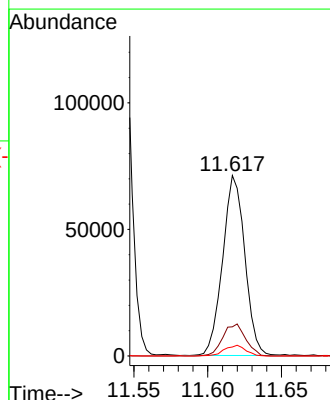
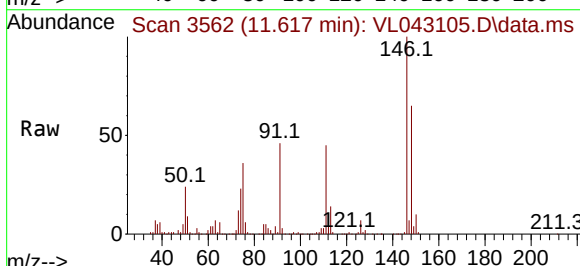
Tgt Ion: 91 Resp: 74574

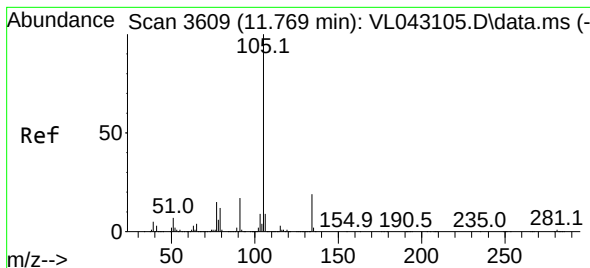
Ion Ratio Lower Upper

91 100

126 18.3 14.6 22.0

128 5.7 4.6 6.8





#67

sec-Butylbenzene

Concen: 8.809 ppbv

RT: 11.769 min Scan# 3609

Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

Instrument :

MSVOA_1

ClientSampleId :

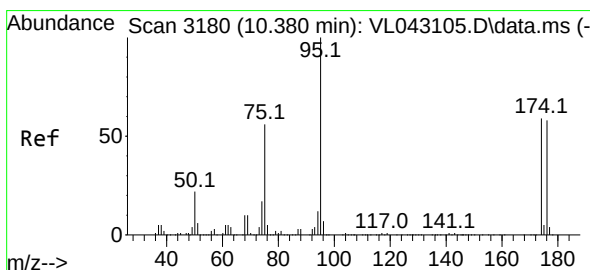
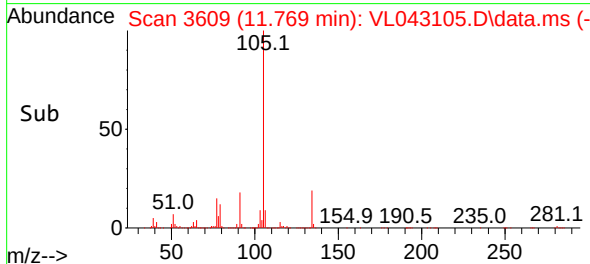
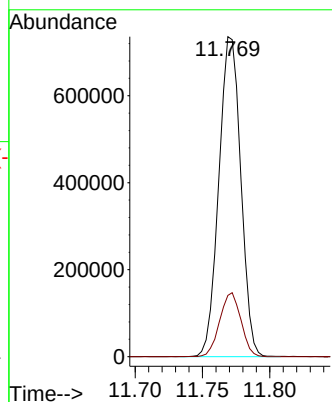
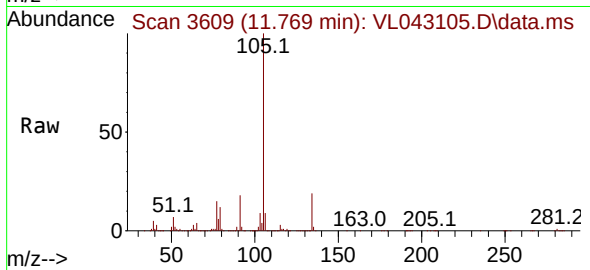
VSTDICCC010

Tgt Ion:105 Resp: 834052

Ion Ratio Lower Upper

105 100

134 19.4 15.5 23.3



#68

1-Bromo-4-Fluorobenzene

Concen: 10.046 ppbv

RT: 10.380 min Scan# 3180

Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

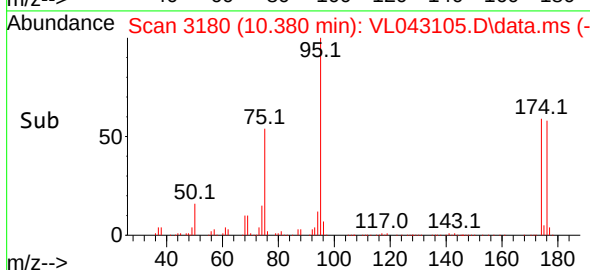
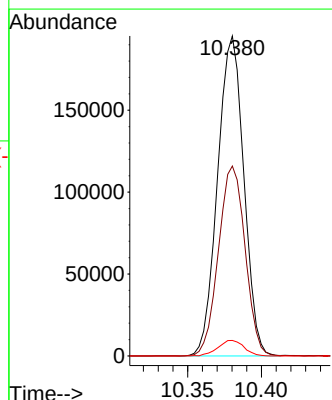
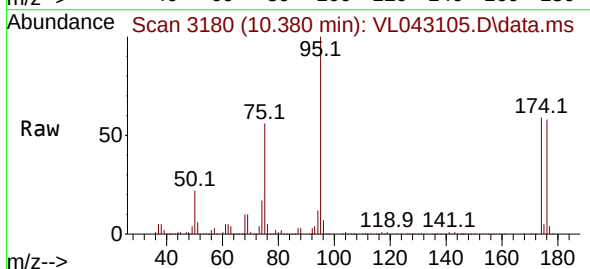
Tgt Ion: 95 Resp: 241468

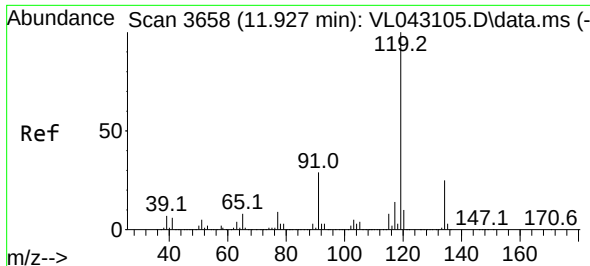
Ion Ratio Lower Upper

95 100

174 60.4 48.3 72.5

175 4.8 3.8 5.8

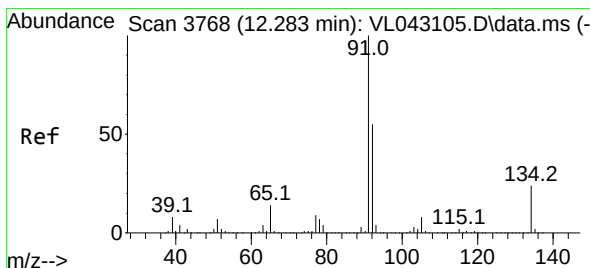
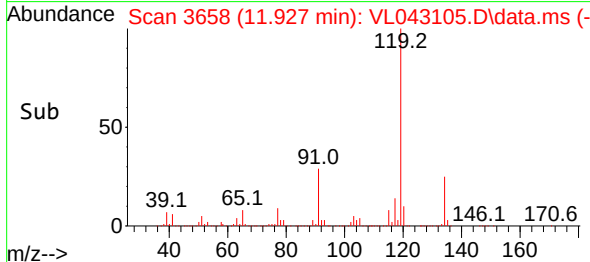
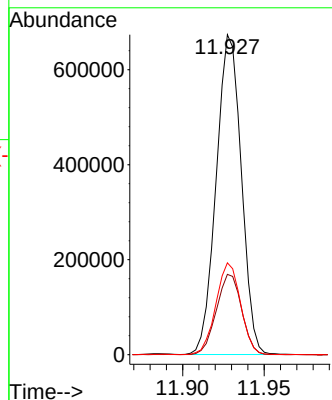
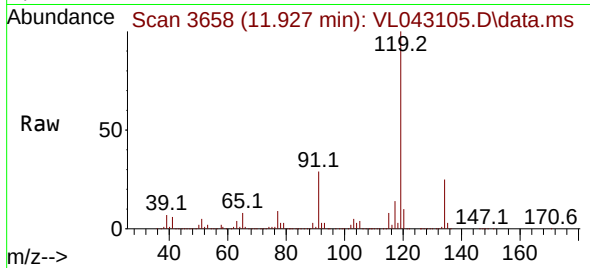




#69
 p-Isopropyltoluene
 Concen: 8.955 ppbv
 RT: 11.927 min Scan# 3658
 Delta R.T. 0.000 min
 Lab File: VL043105.D
 Acq: 14 Oct 2025 10:31

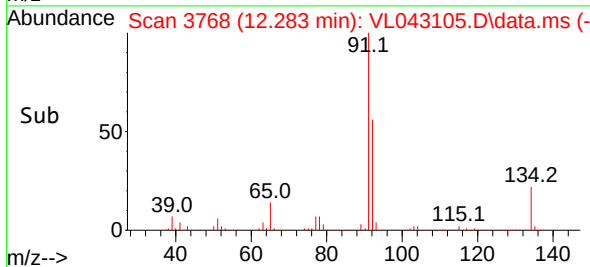
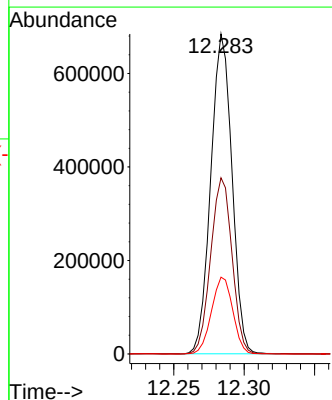
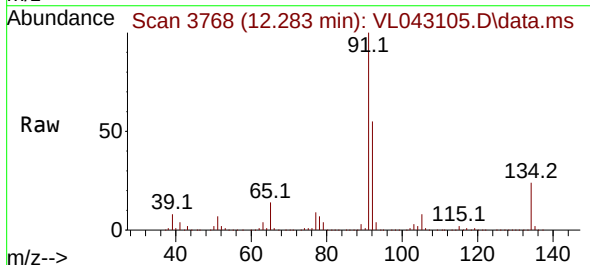
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

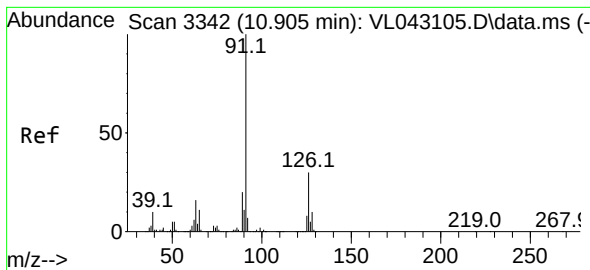
Tgt Ion:119 Resp: 720433
 Ion Ratio Lower Upper
 119 100
 134 25.4 20.3 30.5
 91 28.3 22.6 33.8



#70
 n-Butylbenzene
 Concen: 9.053 ppbv
 RT: 12.283 min Scan# 3768
 Delta R.T. 0.000 min
 Lab File: VL043105.D
 Acq: 14 Oct 2025 10:31

Tgt Ion: 91 Resp: 717743
 Ion Ratio Lower Upper
 91 100
 92 55.6 44.5 66.7
 134 24.1 19.3 28.9

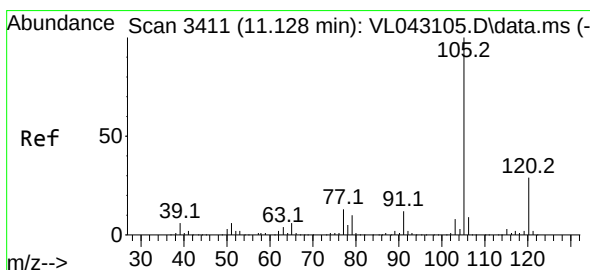
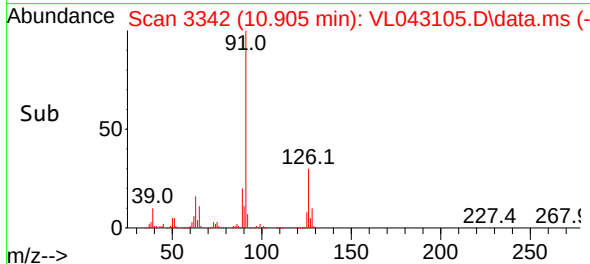
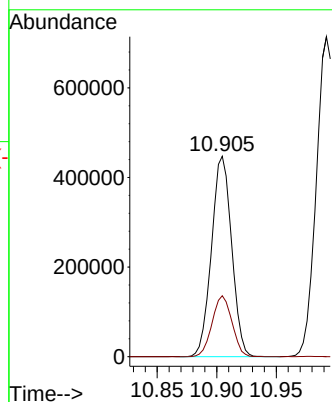
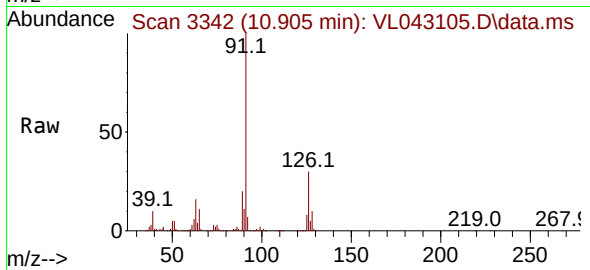




#71
2-Chlorotoluene
Concen: 9.111 ppbv
RT: 10.905 min Scan# 3342
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

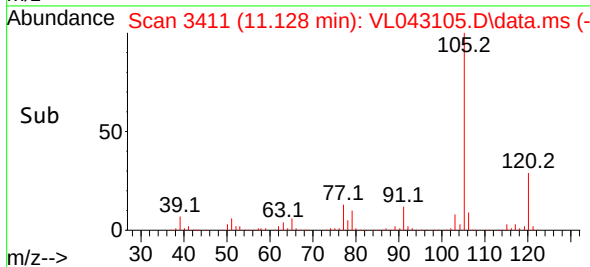
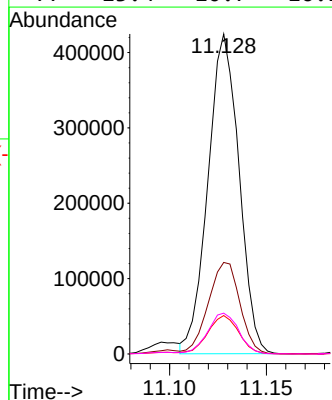
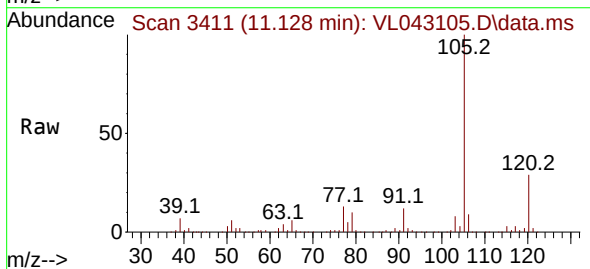
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

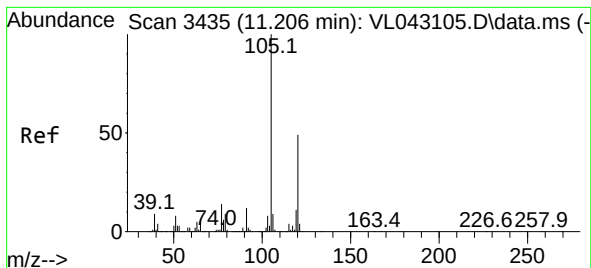
Tgt Ion: 91 Resp: 524961
Ion Ratio Lower Upper
91 100
126 30.0 12.0 48.0



#72
4-Ethyltoluene
Concen: 9.202 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 105 Resp: 473042
Ion Ratio Lower Upper
105 100
120 30.3 24.2 36.4
91 12.5 10.0 15.0
77 13.4 10.7 16.1





#73

1,3,5-Trimethylbenzene

Concen: 9.195 ppbv

RT: 11.206 min Scan# 3435

Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

Instrument :

MSVOA_1

ClientSampleId :

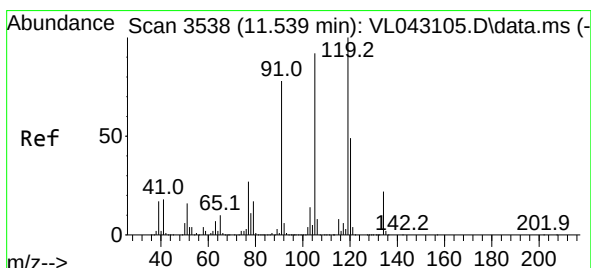
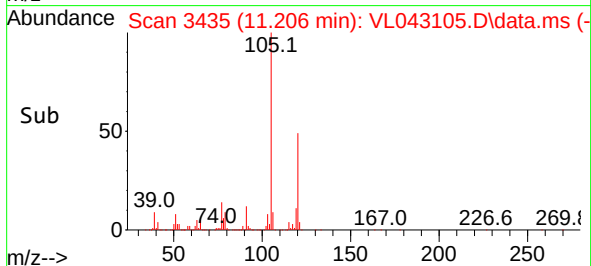
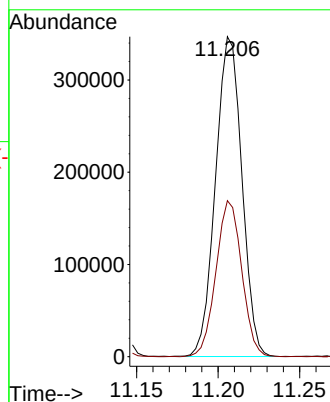
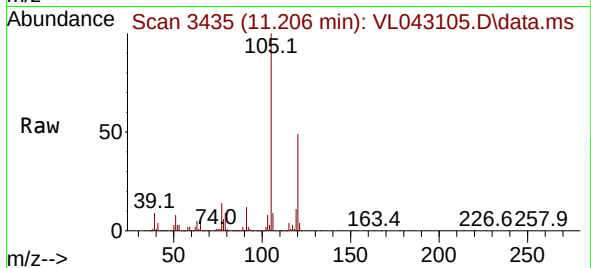
VSTDICCC010

Tgt Ion:105 Resp: 389818

Ion Ratio Lower Upper

105 100

120 48.8 39.0 58.6



#74

1,2,4-Trimethylbenzene

Concen: 8.676 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

Tgt Ion:105 Resp: 411619

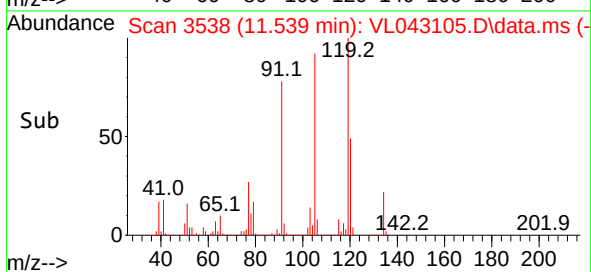
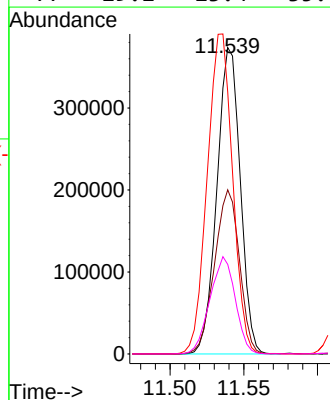
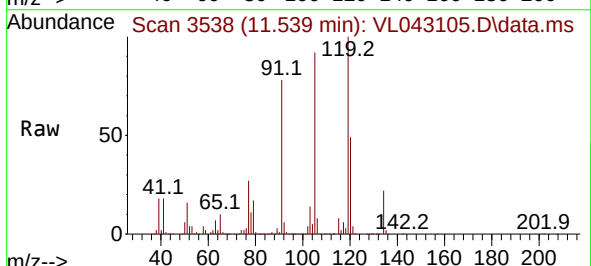
Ion Ratio Lower Upper

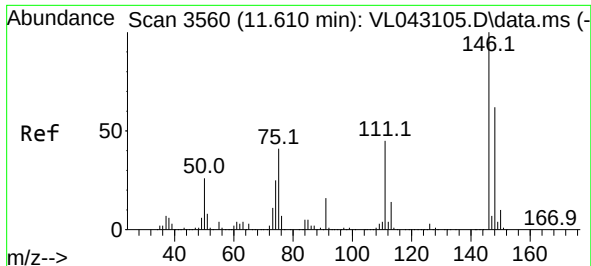
105 100

120 53.5 42.8 64.2

91 85.4 68.3 102.5

77 29.2 23.4 35.0

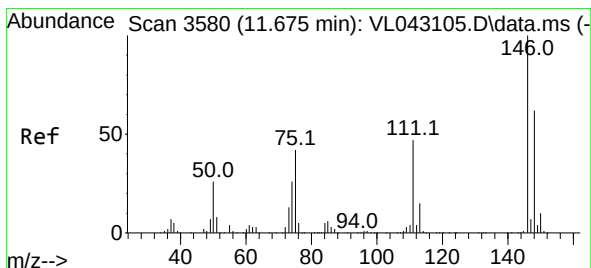
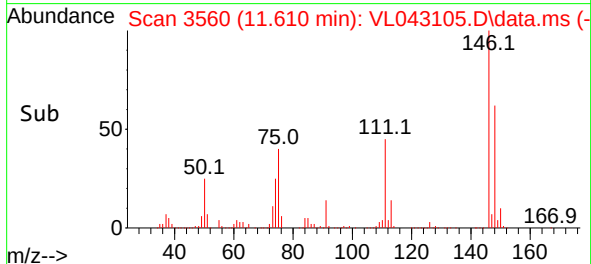
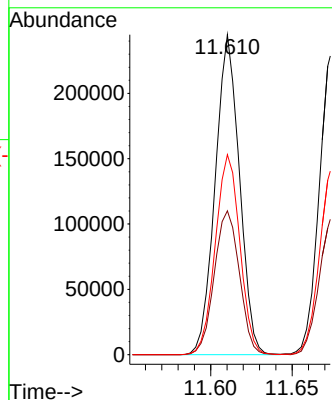
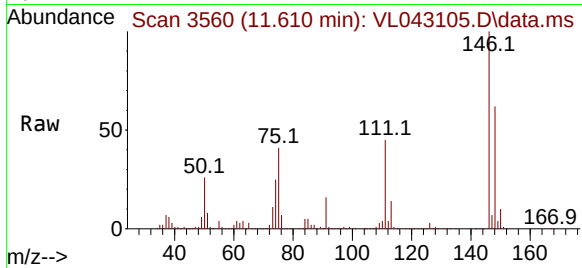




#75
1,3-Dichlorobenzene
Concen: 9.192 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

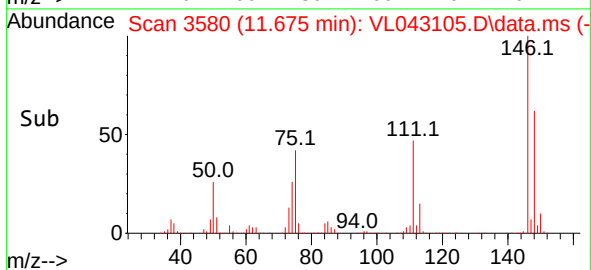
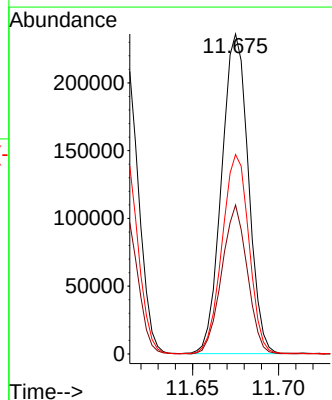
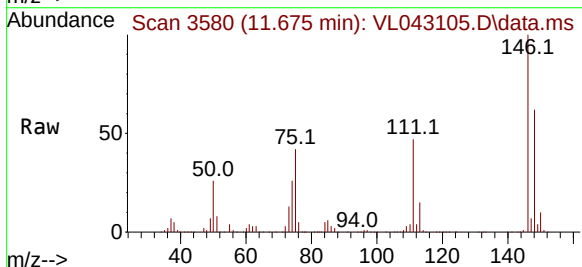
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

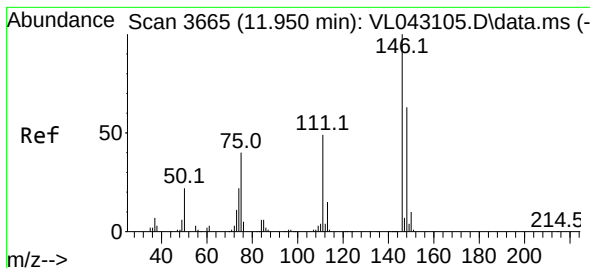
Tgt Ion:146 Resp: 252926
Ion Ratio Lower Upper
146 100
111 46.6 23.3 69.9
148 63.3 31.6 95.0



#76
1,4-Dichlorobenzene
Concen: 9.171 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion:146 Resp: 254461
Ion Ratio Lower Upper
146 100
111 44.7 22.4 67.0
148 63.1 31.6 94.7





#77

1,2-Dichlorobenzene

Concen: 8.893 ppbv

RT: 11.950 min Scan# 3665

Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

Instrument :

MSVOA_1

ClientSampleId :

VSTDICCC010

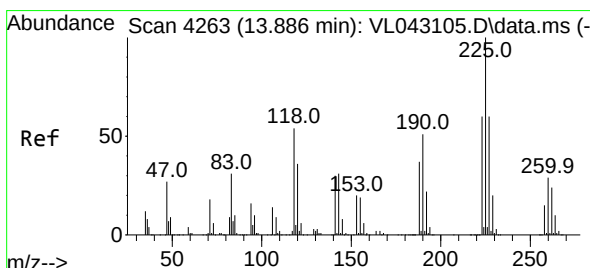
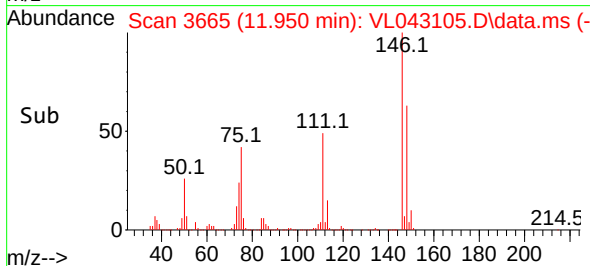
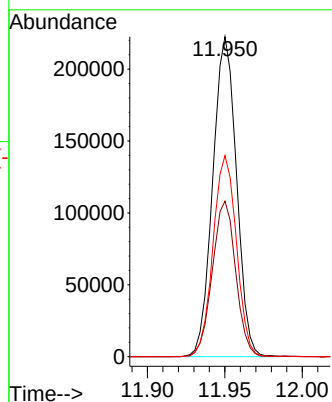
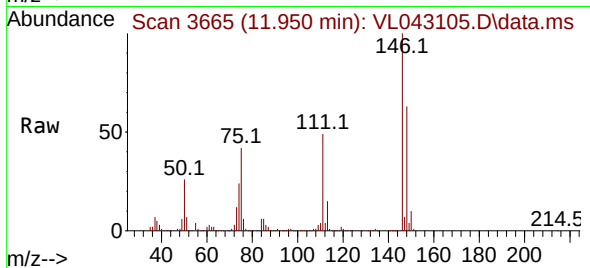
Tgt Ion:146 Resp: 236724

Ion Ratio Lower Upper

146 100

111 48.0 24.0 72.0

148 62.2 31.1 93.3



#78

Hexachloro-1,3-Butadiene

Concen: 8.334 ppbv

RT: 13.886 min Scan# 4263

Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

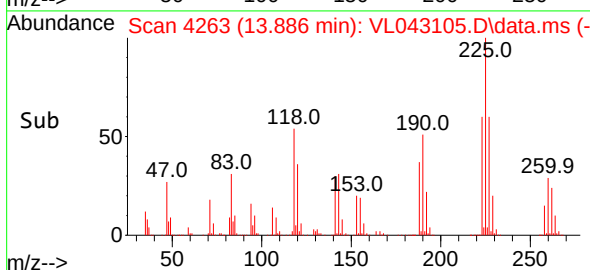
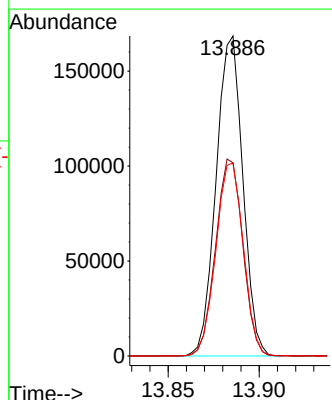
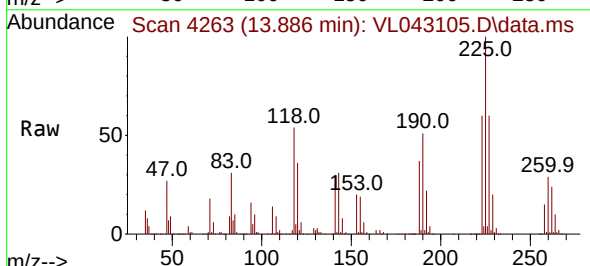
Tgt Ion:225 Resp: 171777

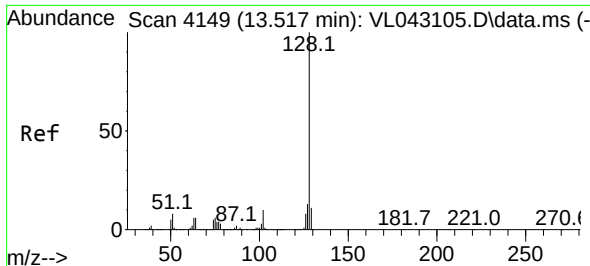
Ion Ratio Lower Upper

225 100

223 62.8 50.2 75.4

227 62.0 49.6 74.4

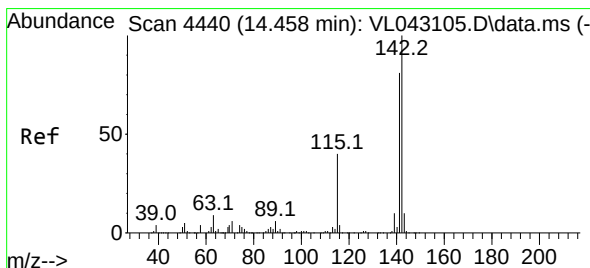
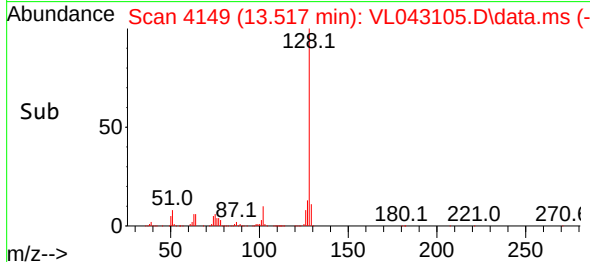
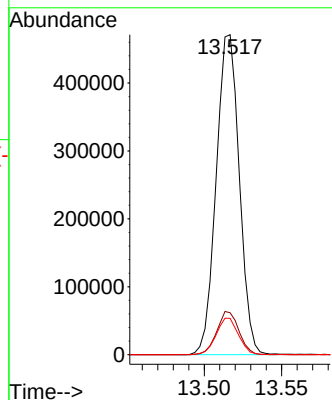
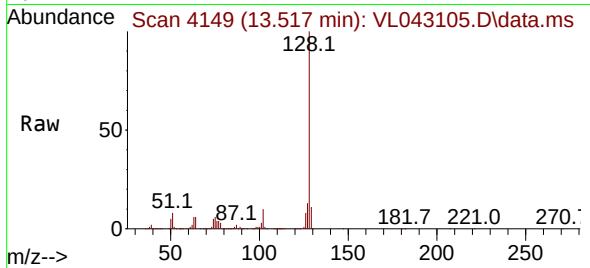




#79
Naphthalene
Concen: 9.972 ppbv
RT: 13.517 min Scan# 4149
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

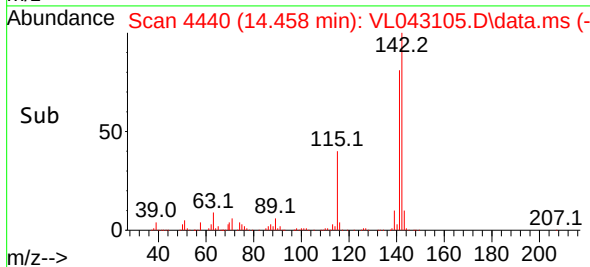
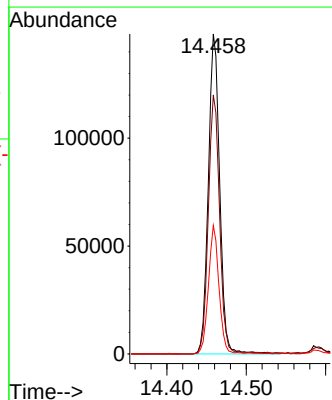
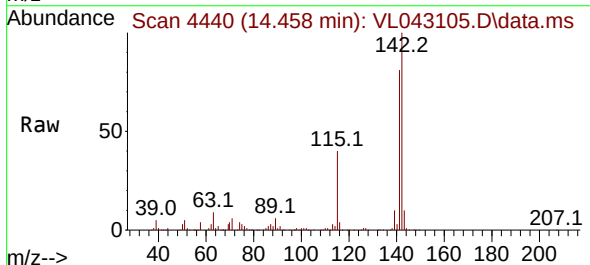
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

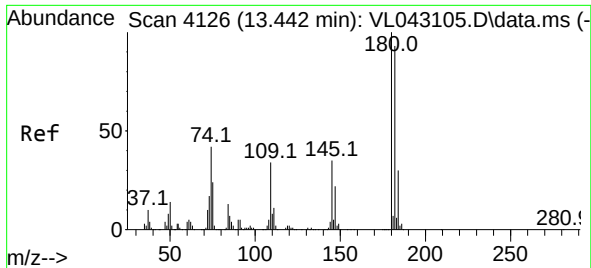
Tgt Ion:128 Resp: 488672
Ion Ratio Lower Upper
128 100
127 13.1 10.5 15.7
129 11.4 9.1 13.7



#80
Naphthalene, 2-methyl-
Concen: 11.431 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion:142 Resp: 147897
Ion Ratio Lower Upper
142 100
141 80.8 64.6 97.0
115 37.8 30.2 45.4





#81

1,2,4-Trichlorobenzene

Concen: 9.582 ppbv

RT: 13.442 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL043105.D

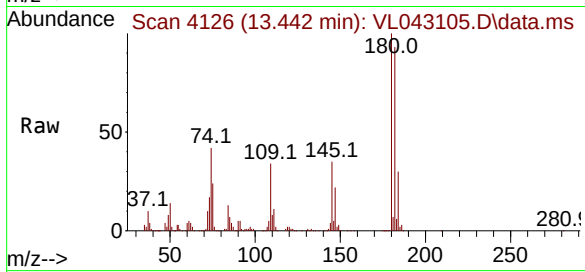
Acq: 14 Oct 2025 10:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010



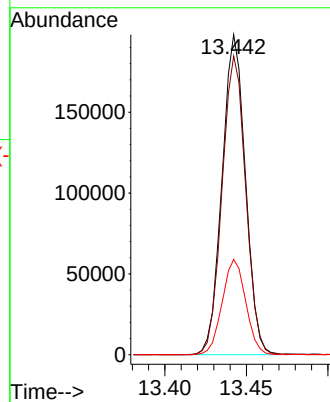
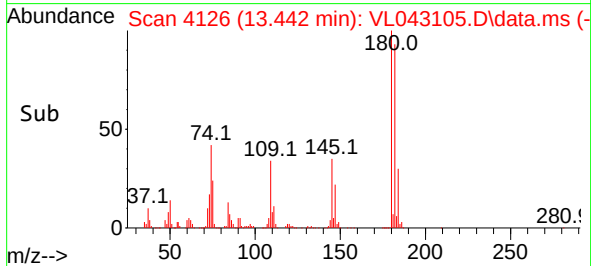
Tgt Ion:180 Resp: 197210

Ion Ratio Lower Upper

180 100

182 94.4 75.5 113.3

184 29.9 23.9 35.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
 Data File : VL043106.D
 Acq On : 14 Oct 2025 11:27
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Quant Time: Oct 15 01:51:55 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

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

QLast Update : Wed Oct 15 01:49:43 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.791	49	105309	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	342939	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	313603	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 244329 10.024 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.200%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	31189	2.083	ppbv	99
3) Chlorodifluoromethane	1.476	51	33217	2.050	ppbv	96
4) Chloromethane	1.535	50	12185	2.054	ppbv	93
5) Vinyl Chloride	1.583	62	11114	1.911	ppbv	92
6) Bromomethane	1.671	94	6672	2.092	ppbv	95
7) Chloroethane	1.706	64	5008	2.106	ppbv	97
8) Dichlorotetrafluoroethane	1.557	85	25897	2.140	ppbv	100
9) Propene	1.486	41	15177	2.112	ppbv	94
10) Heptane	4.982	43	42790	2.078	ppbv	97
11) Trichlorofluoromethane	1.881	101	31114	2.125	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.143	101	25091	2.128	ppbv	100
13) Ethanol	1.722	45	6363	2.394	ppbv	95
14) Bromoethene	1.784	108	9087	2.075	ppbv	97
15) Acetone	1.836	43	31756	2.225	ppbv	97
16) 1,3-Butadiene	1.612	39	13668	2.021	ppbv	99
17) tert-Butyl alcohol	2.043	59	40738	2.091	ppbv	96
18) 1,1-Dichloroethene	2.036	96	10794	2.100	ppbv	99
19) Isopropyl Alcohol	1.888	45	18326	2.073	ppbv #	40
20) Methylene Chloride	2.062	84	10694	1.906	ppbv #	82
21) Allyl Chloride	2.098	41	21902	2.090	ppbv	93
22) trans-1,2-Dichloroethene	2.344	96	12511	2.036	ppbv	98
23) Vinyl Acetate	2.464	43	48282	2.322	ppbv #	96
24) 1,1-Dichloroethane	2.412	63	25066	2.112	ppbv	99
25) Ethyl Acetate	2.836	43	74929	2.129	ppbv	99
26) Hexane	2.829	57	32595	2.010	ppbv	93
27) Carbon Disulfide	2.153	76	31705	2.134	ppbv	95
28) Methyl tert-Butyl Ether	2.441	73	16207	2.196	ppbv	98
29) Chloroform	2.849	83	48367	2.058	ppbv	99
30) Cyclohexane	3.859	84	29270	2.069	ppbv	99
31) cis-1,2-Dichloroethene	2.723	61	31925	2.061	ppbv	97
32) 1,1,1-Trichloroethane	3.370	97	51049	2.086	ppbv	98
34) 2-Butanone	2.558	43	48458	2.090	ppbv	99
35) Carbon Tetrachloride	3.765	117	51073	2.071	ppbv	97
36) Benzene	3.658	78	70156	2.172	ppbv	98
37) 1,2-Dichloroethane	3.218	62	38767	2.083	ppbv	100
38) Trichloroethene	4.551	130	27272	2.024	ppbv	96
39) 1,2-Dichloropropane	4.315	63	25427	2.151	ppbv	92
40) 1,4-Dioxane	4.584	88	4954	0.938	ppbv #	21
41) Tetrahydrofuran	3.059	42	26362	2.037	ppbv	98
42) Bromodichloromethane	4.496	83	54224	2.106	ppbv #	93
43) Methyl Methacrylate	4.878	69	33805	2.051	ppbv	99
44) 2,2,4-Trimethylpentane	4.642	57	115417	2.137	ppbv	99
45) t-1,3-Dichloropropene	6.416	75	34728	2.109	ppbv	90

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
 Data File : VL043106.D
 Acq On : 14 Oct 2025 11:27
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

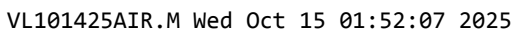
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

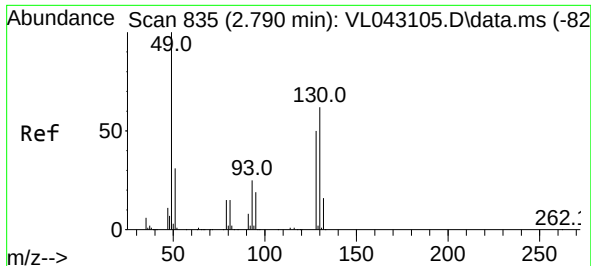
Quant Time: Oct 15 01:51:55 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 01:49:43 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.600	75	23612	1.202	ppbv	98
47) 1,1,2-Trichloroethane	6.584	97	26359	2.067	ppbv	94
48) Dibromochloromethane	7.390	129	45751	2.146	ppbv	99
49) Bromoform	9.484	173	37314	2.153	ppbv	99
50) 4-Methyl-2-Pentanone	5.752	43	66811	2.089	ppbv	99
51) 2-Hexanone	7.438	43	50642	2.122	ppbv #	99
52) Tetrachloroethene	8.228	164	24183	2.076	ppbv	91
53) Toluene	6.937	91	80660	2.104	ppbv	99
54) 1,2-Dibromoethane	7.655	107	42320	2.103	ppbv	94
56) 1,1,1,2-Tetrachloroethane	8.924	131	41712	2.110	ppbv	94
57) Chlorobenzene	8.924	112	62714	2.138	ppbv	97
58) Ethyl Benzene	9.354	91	114403	2.109	ppbv	99
59) m/p-Xylene	9.532	91	96158	2.238	ppbv #	29
60) o-Xylene	9.963	91	91223	2.152	ppbv	98
61) Styrene	9.872	104	41631	2.175	ppbv	98
62) Isopropylbenzene	10.539	105	164073	2.142	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.966	83	58510	2.061	ppbv	99
64) n-propylbenzene	10.989	120	43648	2.152	ppbv	96
65) tert-Butylbenzene	11.529	119	148300	2.192	ppbv	99
66) Benzyl Chloride	11.617	91	15656	2.072	ppbv	98
67) sec-Butylbenzene	11.769	105	210525	2.193	ppbv	99
69) p-Isopropyltoluene	11.928	119	180060	2.207	ppbv	99
70) n-Butylbenzene	12.284	91	178676	2.222	ppbv	98
71) 2-Chlorotoluene	10.902	91	126551	2.166	ppbv	99
72) 4-Ethyltoluene	11.125	105	113233	2.172	ppbv	98
73) 1,3,5-Trimethylbenzene	11.206	105	92650	2.155	ppbv	99
74) 1,2,4-Trimethylbenzene	11.536	105	104352	2.169	ppbv	98
75) 1,3-Dichlorobenzene	11.607	146	62709	2.247	ppbv	99
76) 1,4-Dichlorobenzene	11.672	146	60877	2.164	ppbv	100
77) 1,2-Dichlorobenzene	11.947	146	57304	2.123	ppbv	97
78) Hexachloro-1,3-Butadiene	13.883	225	46796	2.239	ppbv	98
79) Naphthalene	13.514	128	123642	2.488	ppbv	99
80) Naphthalene,2-methyl-	14.459	142	32308	2.462	ppbv	98
81) 1,2,4-Trichlorobenzene	13.442	180	50394	2.414	ppbv	99

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

Quant Time: Oct 15 01:51:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 01:49:43 2025
Response via : Initial Calibration

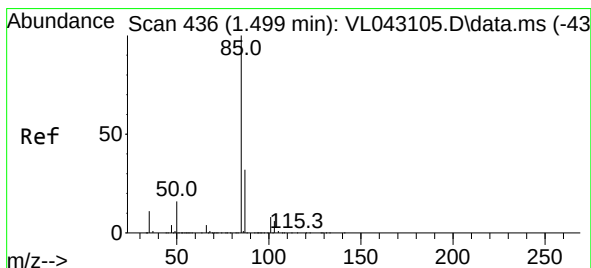
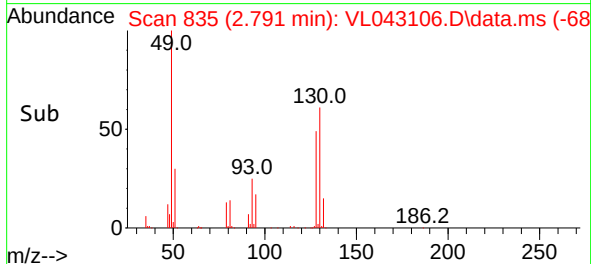
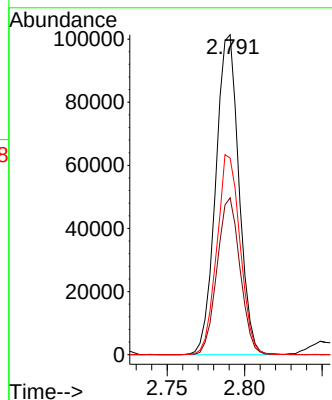
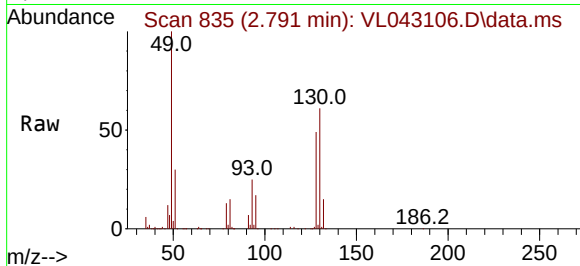




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.791 min Scan# 835
Delta R.T. 0.001 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

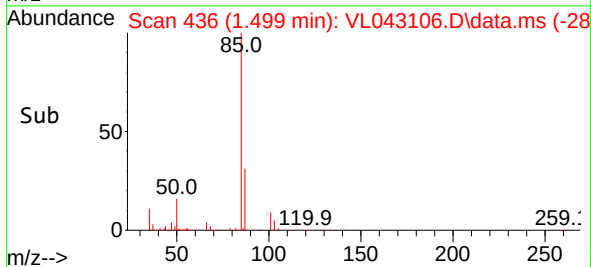
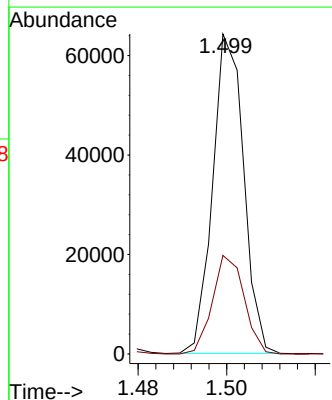
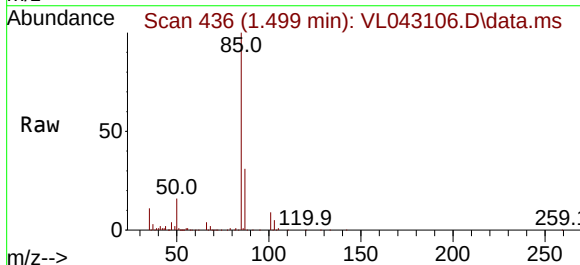
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

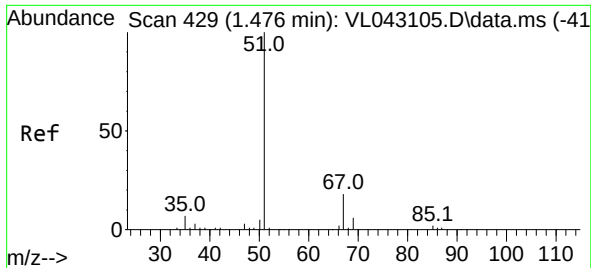
Tgt Ion: 49 Resp: 105309
Ion Ratio Lower Upper
49 100
128 48.8 24.4 73.4
130 62.8 31.0 93.0



#2
Dichlorodifluoromethane
Concen: 2.083 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 85 Resp: 31189
Ion Ratio Lower Upper
85 100
87 30.9 25.3 37.9

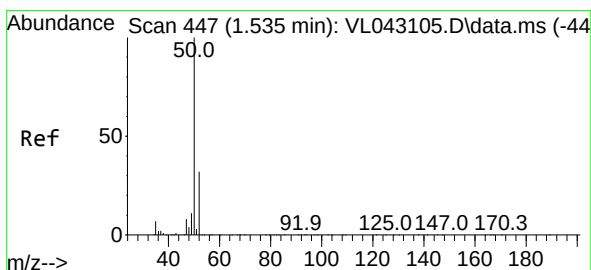
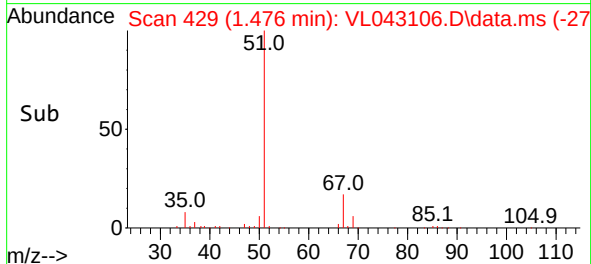
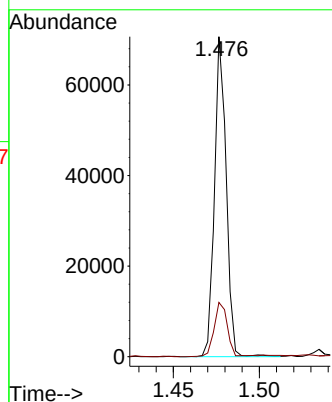
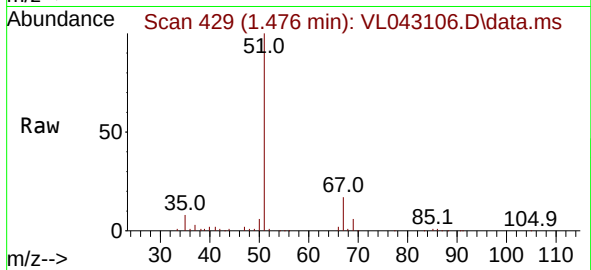




#3
Chlorodifluoromethane
Concen: 2.050 ppbv
RT: 1.476 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

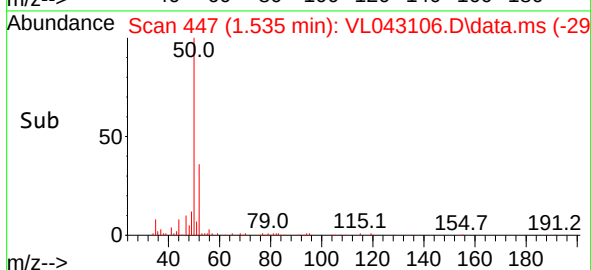
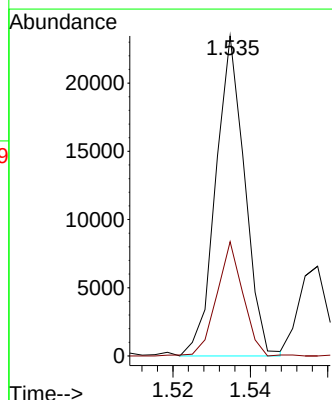
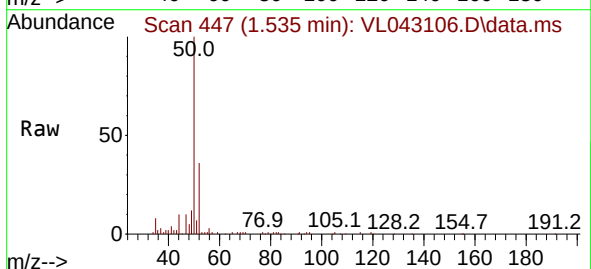
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

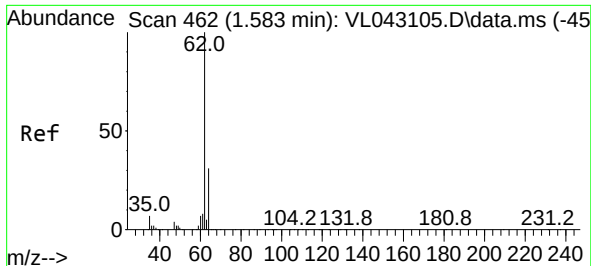
Tgt Ion: 51 Resp: 33217
Ion Ratio Lower Upper
51 100
67 20.6 15.1 22.7



#4
Chloromethane
Concen: 2.054 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 50 Resp: 12185
Ion Ratio Lower Upper
50 100
52 35.4 25.2 37.8

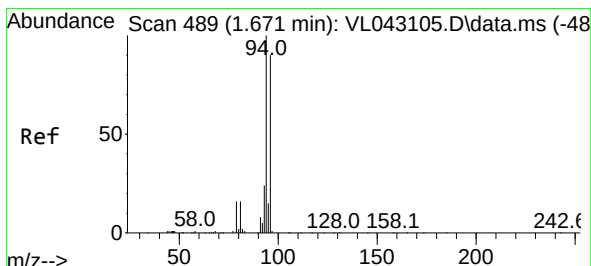
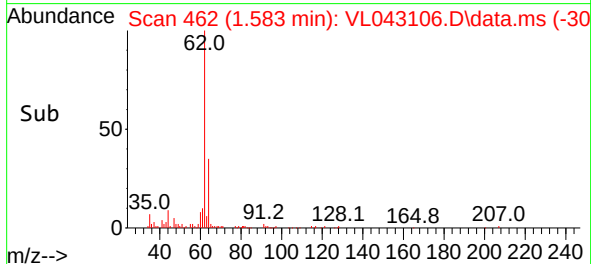
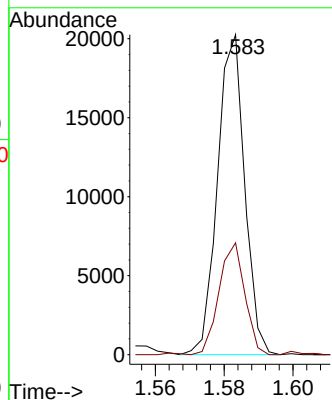
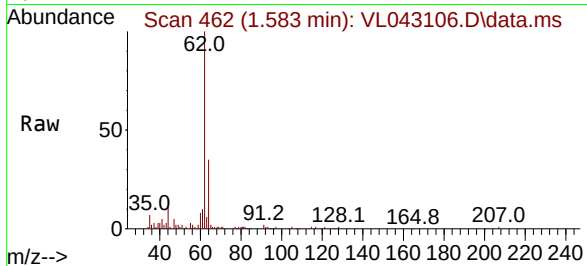




#5
 Vinyl Chloride
 Concen: 1.911 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. 0.000 min
 Lab File: VL043106.D
 Acq: 14 Oct 2025 11:27

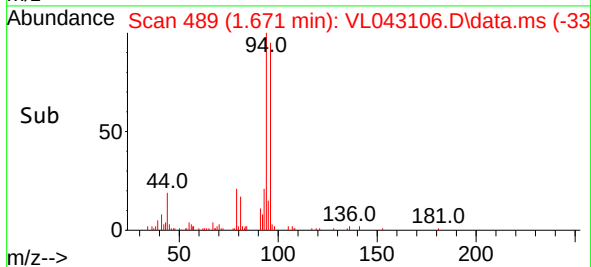
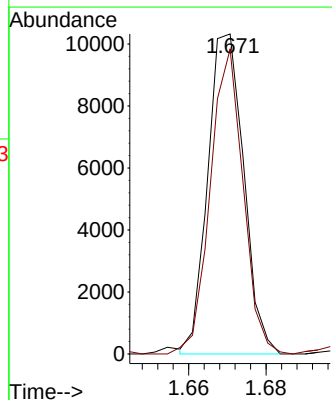
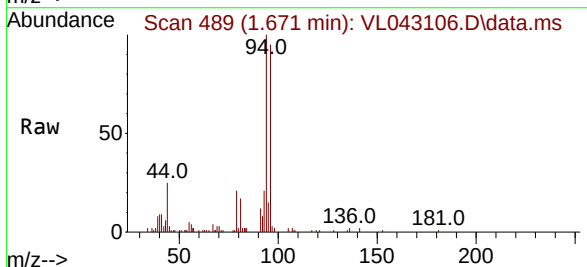
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

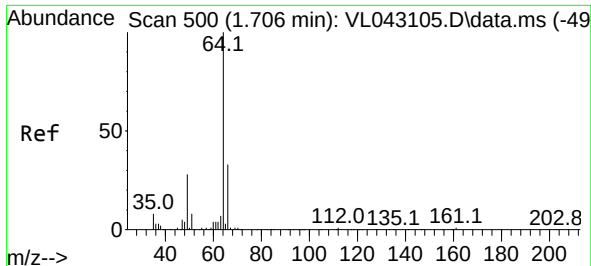
Tgt Ion: 62 Resp: 11114
 Ion Ratio Lower Upper
 62 100
 64 35.0 24.6 36.8



#6
 Bromomethane
 Concen: 2.092 ppbv
 RT: 1.671 min Scan# 489
 Delta R.T. 0.000 min
 Lab File: VL043106.D
 Acq: 14 Oct 2025 11:27

Tgt Ion: 94 Resp: 6672
 Ion Ratio Lower Upper
 94 100
 96 94.6 72.2 108.4

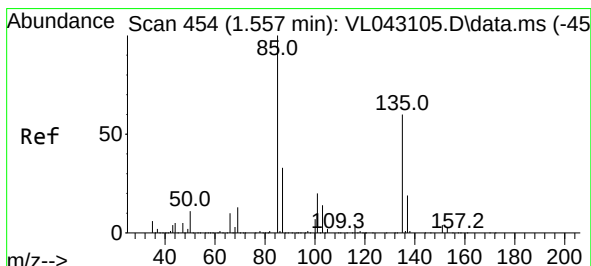
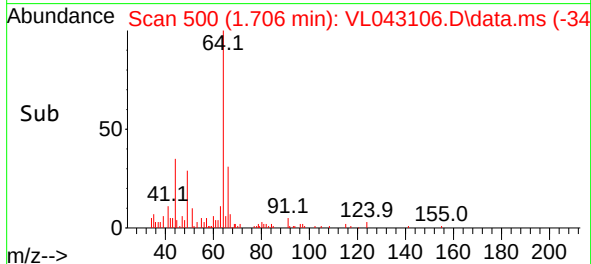
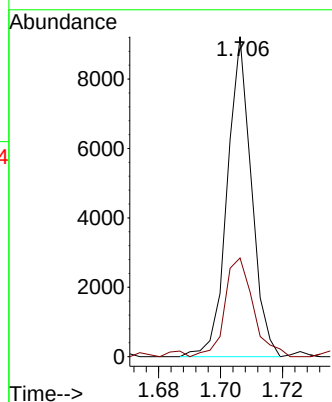
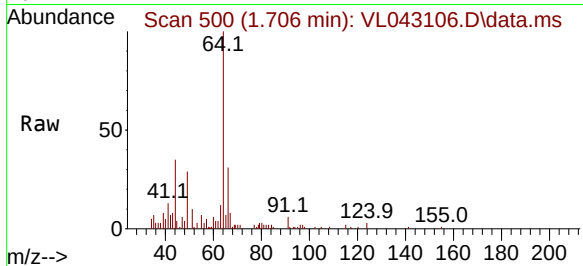




#7
Chloroethane
Concen: 2.106 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

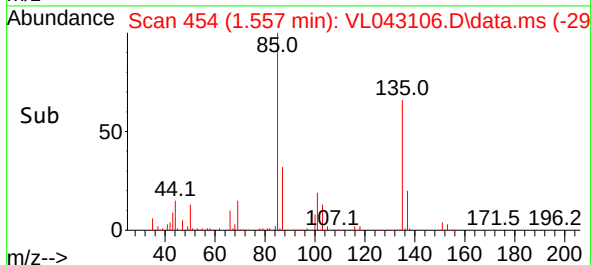
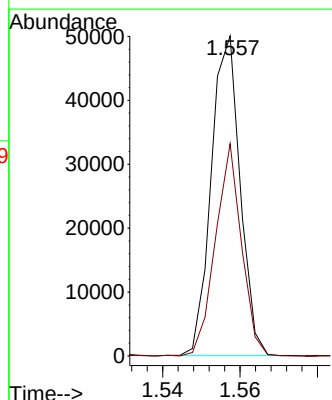
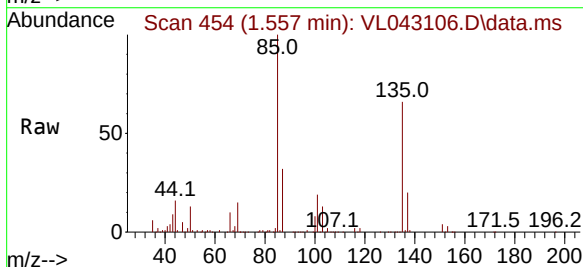
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

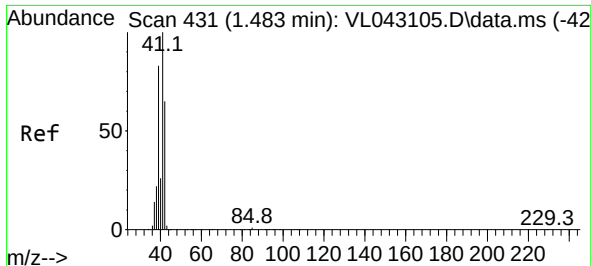
Tgt Ion: 64 Resp: 5008
Ion Ratio Lower Upper
64 100
66 30.8 26.0 39.0



#8
Dichlorotetrafluoroethane
Concen: 2.140 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 85 Resp: 25897
Ion Ratio Lower Upper
85 100
135 60.1 48.2 72.4





#9

Propene

Concen: 2.112 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

Instrument :

MSVOA_L

ClientSampleId :

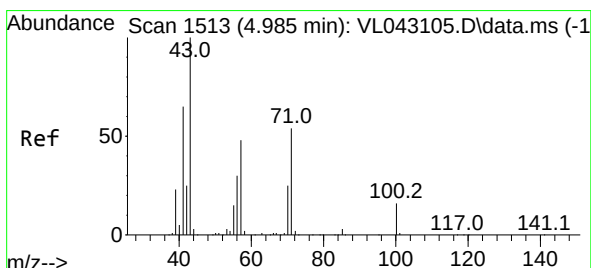
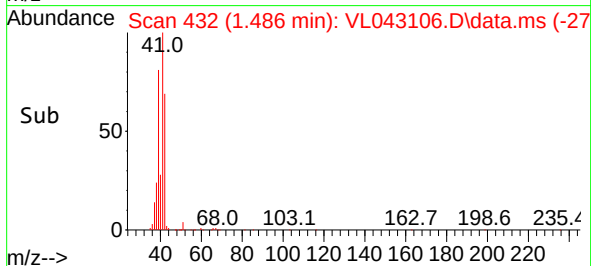
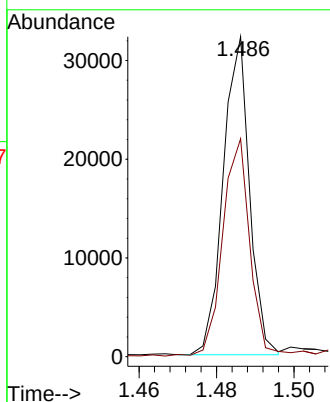
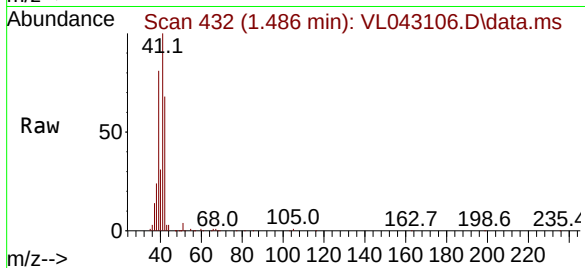
VSTDIC002

Tgt Ion: 41 Resp: 15177

Ion Ratio Lower Upper

41 100

42 74.0 55.1 82.7



#10

Heptane

Concen: 2.078 ppbv

RT: 4.982 min Scan# 1512

Delta R.T. -0.003 min

Lab File: VL043106.D

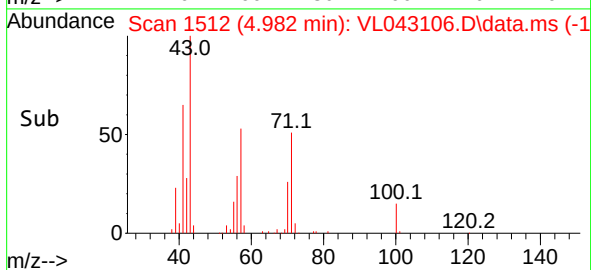
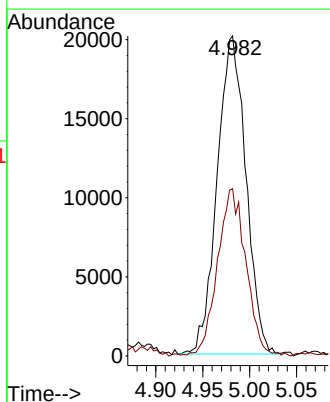
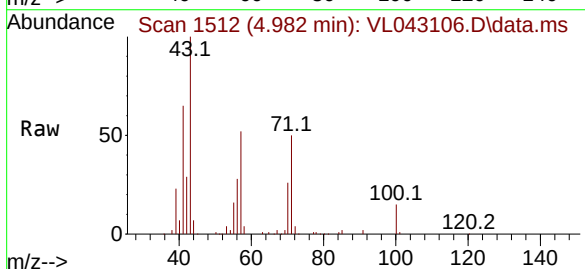
Acq: 14 Oct 2025 11:27

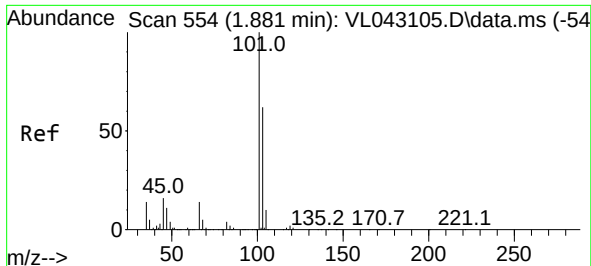
Tgt Ion: 43 Resp: 42790

Ion Ratio Lower Upper

43 100

57 52.8 40.8 61.2

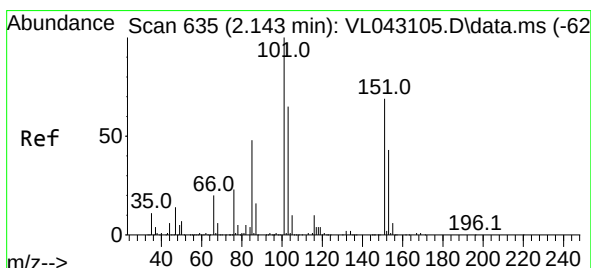
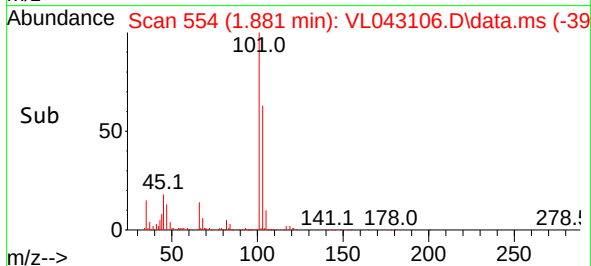
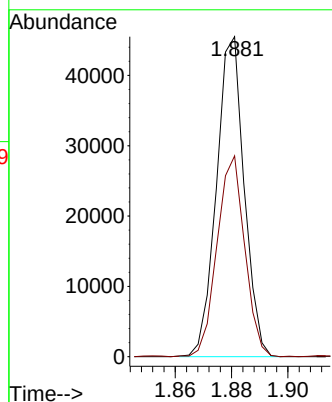
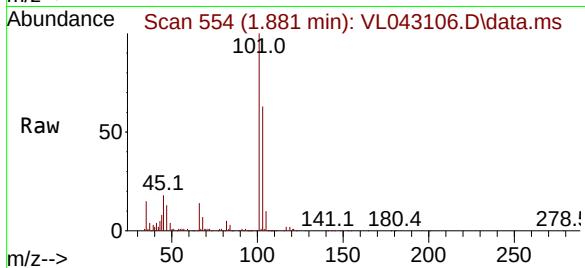




#11
 Trichlorofluoromethane
 Concen: 2.125 ppbv
 RT: 1.881 min Scan# 511
 Delta R.T. 0.000 min
 Lab File: VL043106.D
 Acq: 14 Oct 2025 11:27

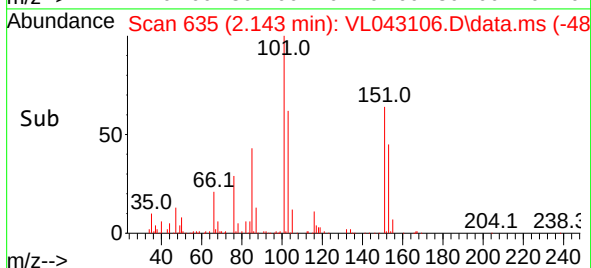
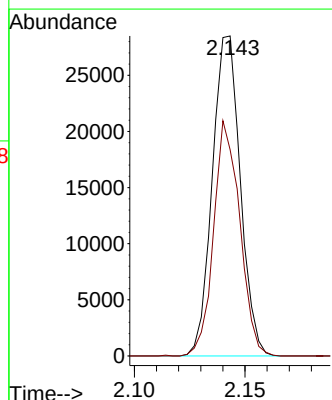
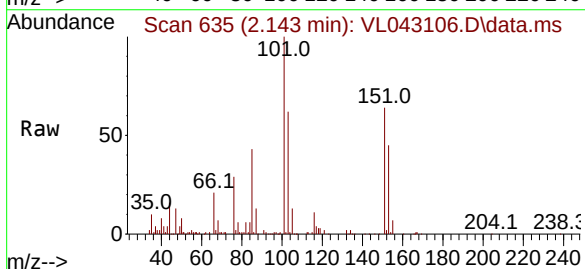
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

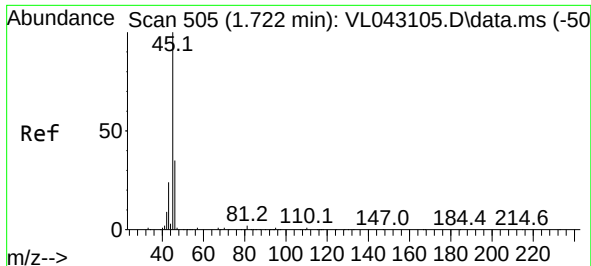
Tgt Ion:101 Resp: 31114
 Ion Ratio Lower Upper
 101 100
 103 62.8 49.3 73.9



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 2.128 ppbv
 RT: 2.143 min Scan# 635
 Delta R.T. 0.000 min
 Lab File: VL043106.D
 Acq: 14 Oct 2025 11:27

Tgt Ion:101 Resp: 25091
 Ion Ratio Lower Upper
 101 100
 151 68.5 54.7 82.1

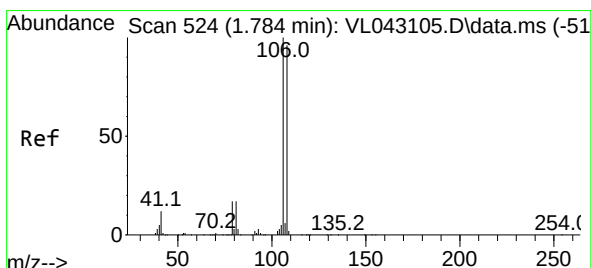
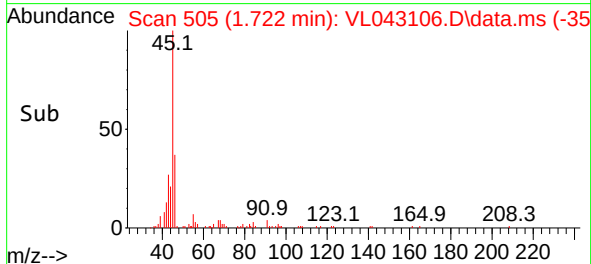
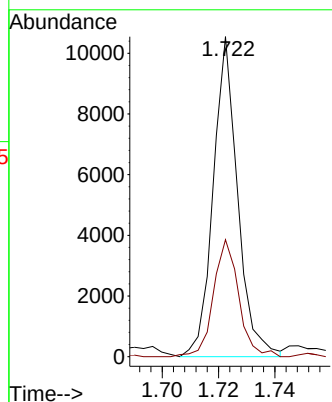
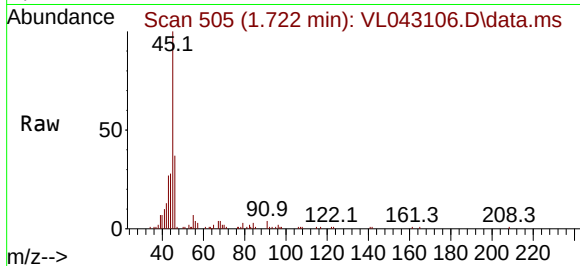




#13
Ethanol
Concen: 2.394 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

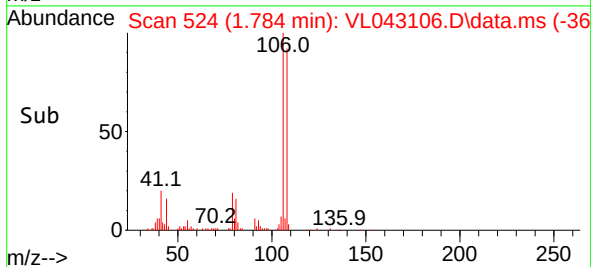
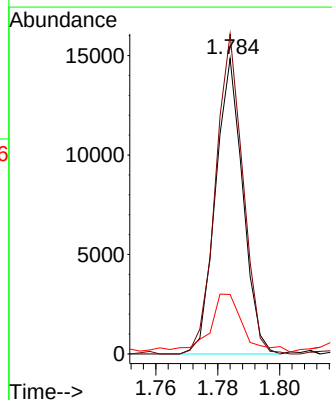
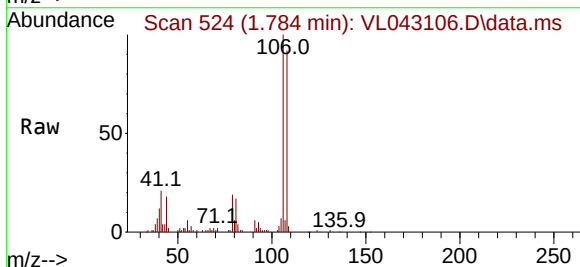
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

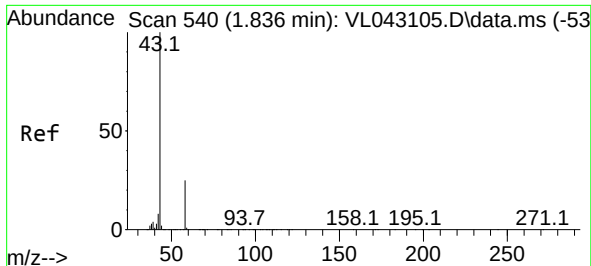
Tgt Ion: 45 Resp: 6363
Ion Ratio Lower Upper
45 100
46 39.6 14.7 58.9



#14
Bromoethene
Concen: 2.075 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 108 Resp: 9087
Ion Ratio Lower Upper
108 100
106 109.1 84.4 126.6
79 19.1 15.3 22.9

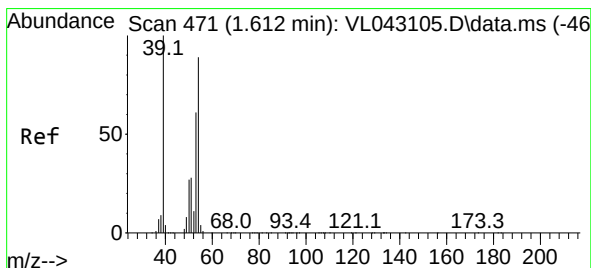
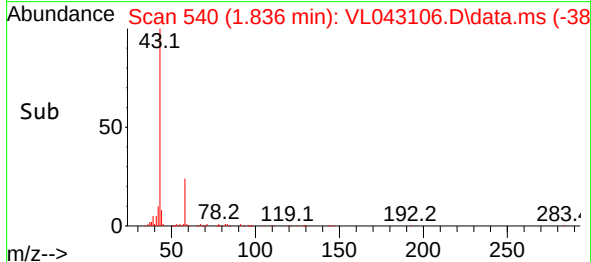
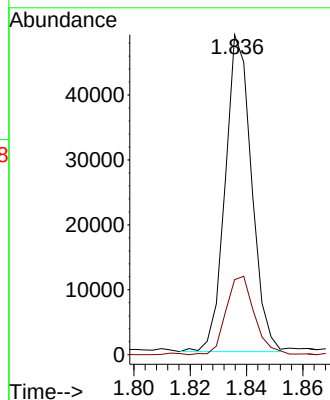
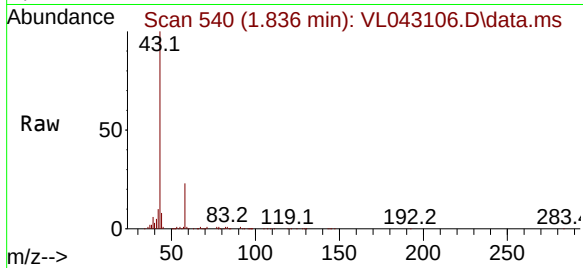




#15
Acetone
Concen: 2.225 ppbv
RT: 1.836 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

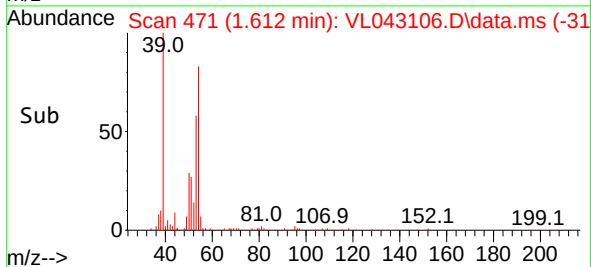
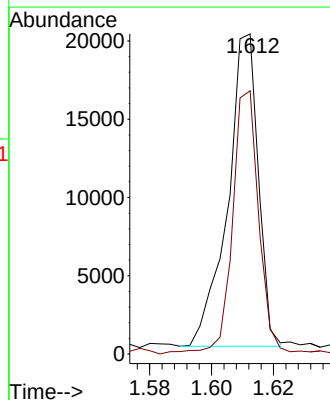
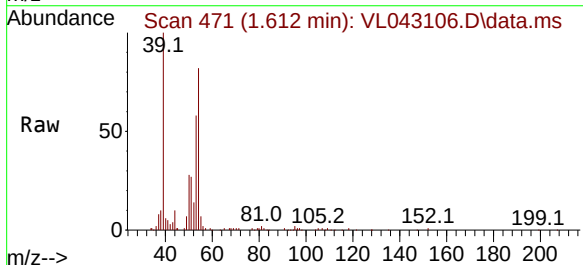
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

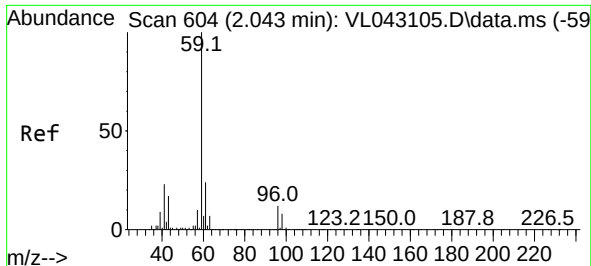
Tgt Ion: 43 Resp: 31756
Ion Ratio Lower Upper
43 100
58 27.3 20.8 31.2



#16
1,3-Butadiene
Concen: 2.021 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 39 Resp: 13668
Ion Ratio Lower Upper
39 100
54 74.3 59.0 88.4

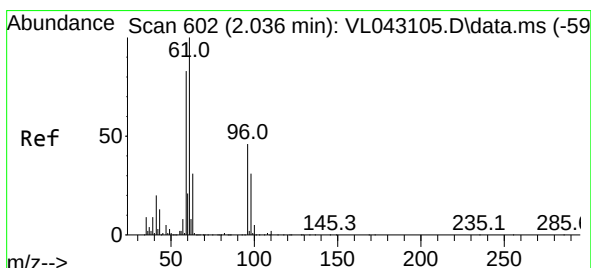
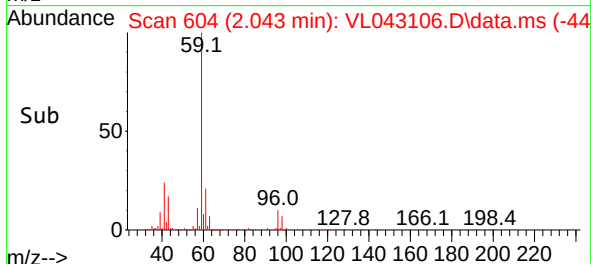
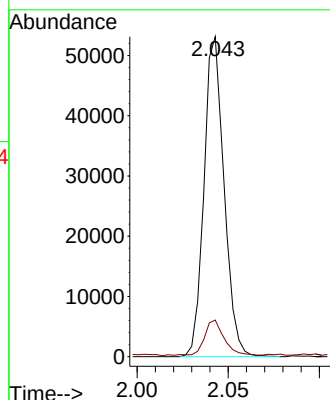
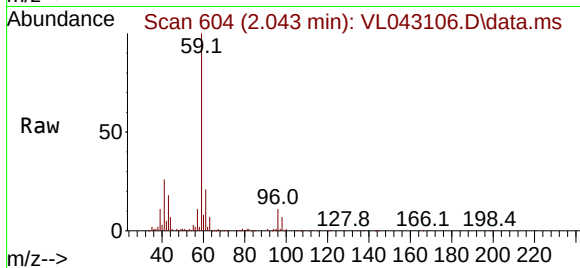




#17
 tert-Butyl alcohol
 Concen: 2.091 ppbv
 RT: 2.043 min Scan# 604
 Delta R.T. 0.000 min
 Lab File: VL043106.D
 Acq: 14 Oct 2025 11:27

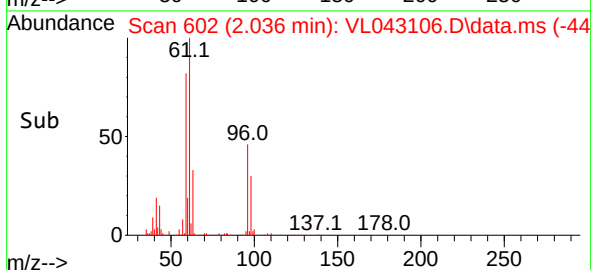
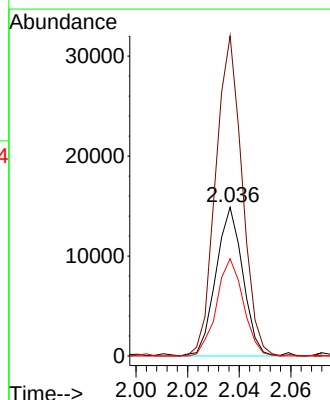
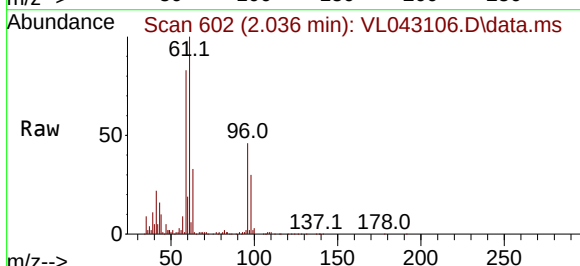
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

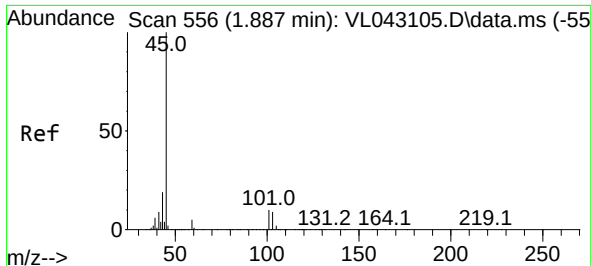
Tgt Ion: 59 Resp: 40738
 Ion Ratio Lower Upper
 59 100
 57 11.9 8.2 12.4



#18
 1,1-Dichloroethene
 Concen: 2.100 ppbv
 RT: 2.036 min Scan# 602
 Delta R.T. 0.000 min
 Lab File: VL043106.D
 Acq: 14 Oct 2025 11:27

Tgt Ion: 96 Resp: 10794
 Ion Ratio Lower Upper
 96 100
 61 215.2 173.4 260.0
 98 65.4 53.2 79.8

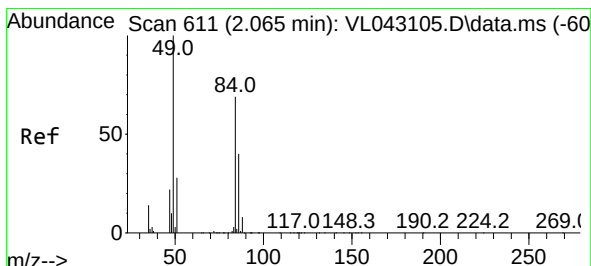
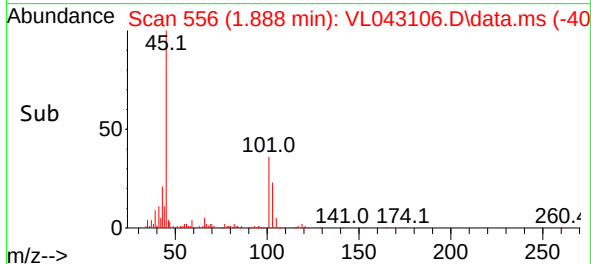
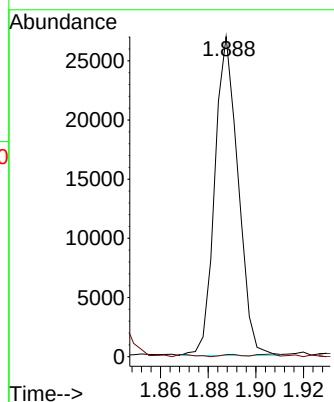
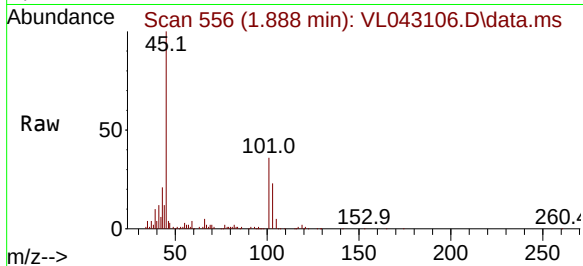




#19
Isopropyl Alcohol
Concen: 2.073 ppbv
RT: 1.888 min Scan# 51
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

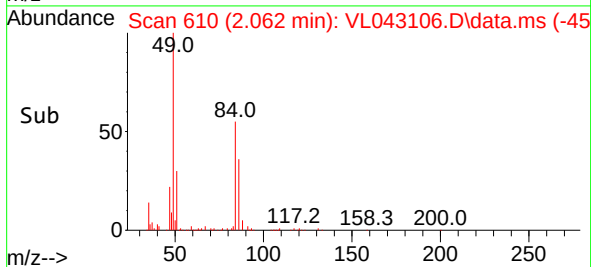
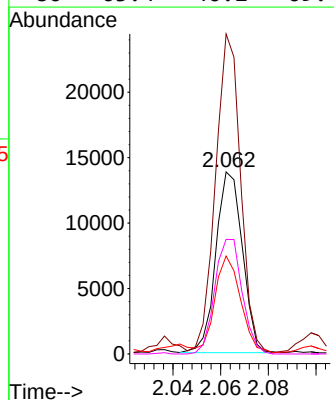
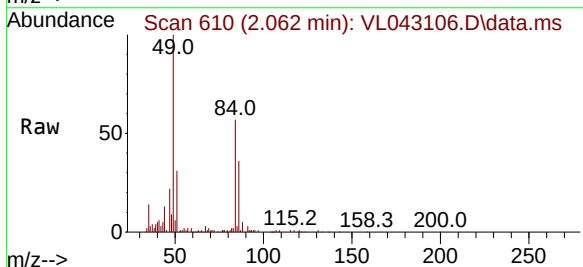
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

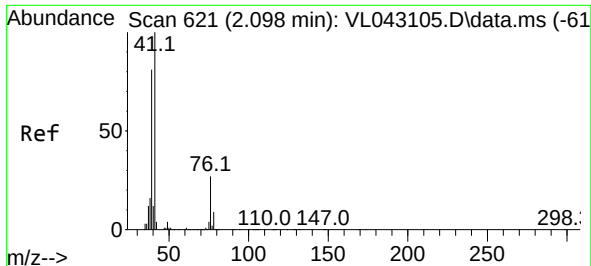
Tgt Ion: 45 Resp: 18326
Ion Ratio Lower Upper
45 100
58 2.3 31.3 46.9#



#20
Methylene Chloride
Concen: 1.906 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 84 Resp: 10694
Ion Ratio Lower Upper
84 100
49 175.6 116.6 175.0#
51 53.2 34.8 52.2#
86 63.4 46.2 69.4

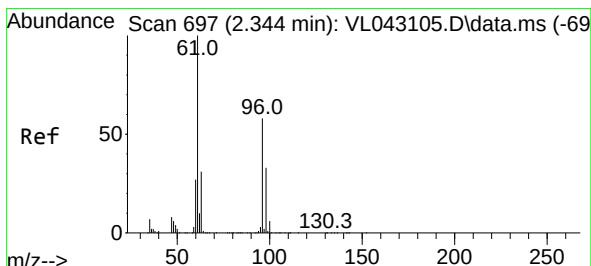
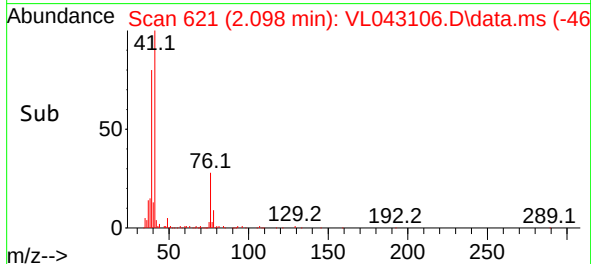
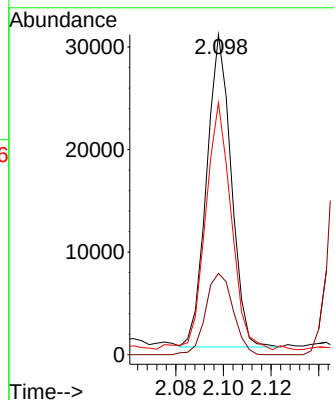
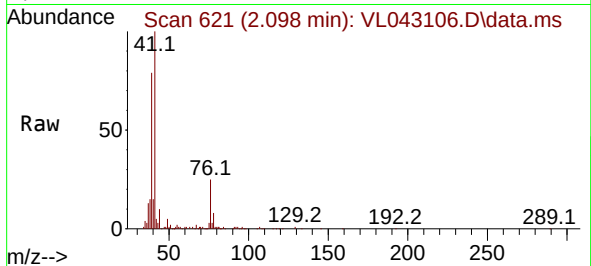




#21
 Allyl Chloride
 Concen: 2.090 ppbv
 RT: 2.098 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: VL043106.D
 Acq: 14 Oct 2025 11:27

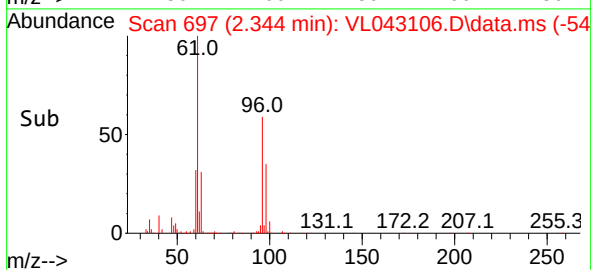
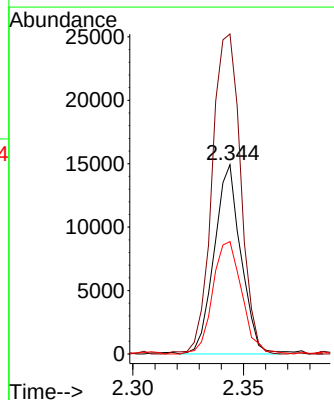
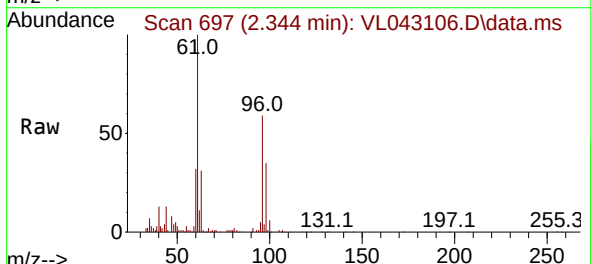
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

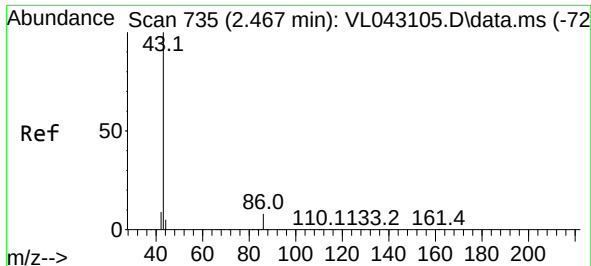
Tgt Ion:	41	Resp:	21902
Ion	Ratio	Lower	Upper
41	100		
76	28.9	21.5	32.3
39	83.1	60.8	91.2



#22
 trans-1,2-Dichloroethene
 Concen: 2.036 ppbv
 RT: 2.344 min Scan# 697
 Delta R.T. 0.000 min
 Lab File: VL043106.D
 Acq: 14 Oct 2025 11:27

Tgt Ion:	96	Resp:	12511
Ion	Ratio	Lower	Upper
96	100		
61	169.0	137.0	205.6
98	59.3	45.5	68.3

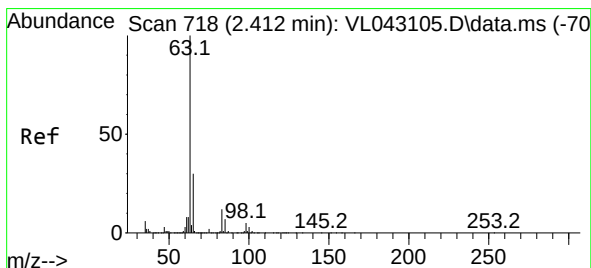
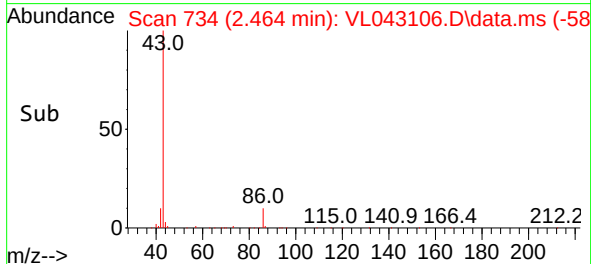
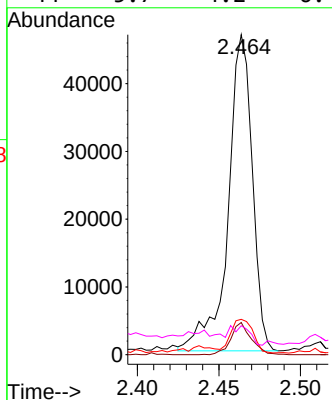
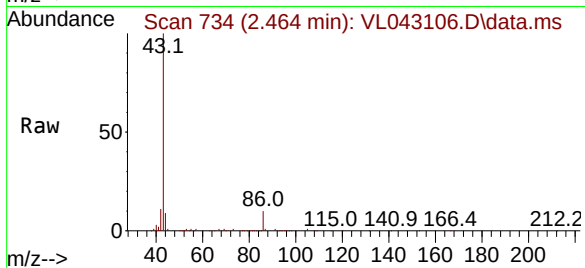




#23
 Vinyl Acetate
 Concen: 2.322 ppbv
 RT: 2.464 min Scan# 718
 Delta R.T. -0.003 min
 Lab File: VL043106.D
 Acq: 14 Oct 2025 11:27

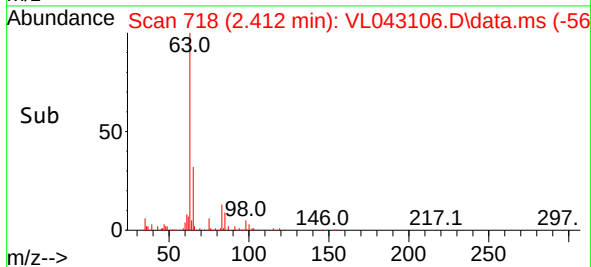
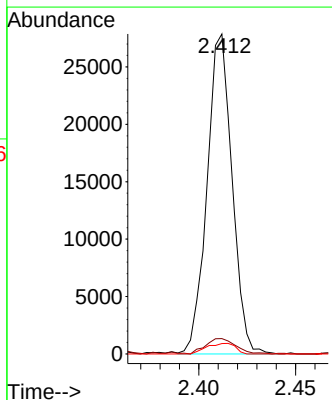
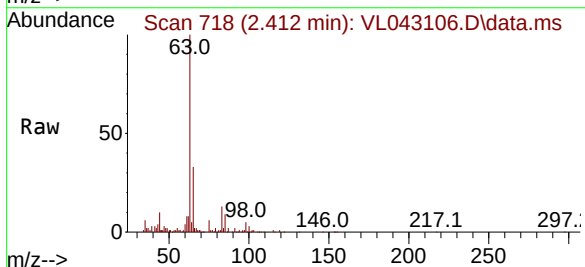
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

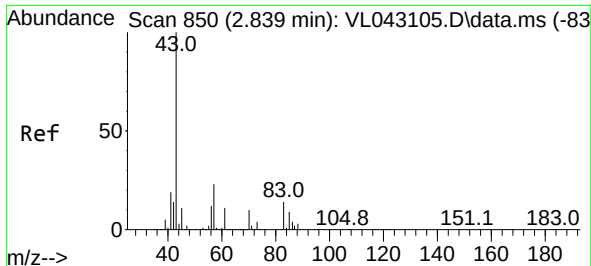
Tgt Ion:	43	Resp:	48282
Ion	Ratio	Lower	Upper
43	100		
86	10.1	6.2	9.2#
42	10.6	7.6	11.4
44	5.7	4.2	6.4



#24
 1,1-Dichloroethane
 Concen: 2.112 ppbv
 RT: 2.412 min Scan# 718
 Delta R.T. 0.000 min
 Lab File: VL043106.D
 Acq: 14 Oct 2025 11:27

Tgt Ion:	63	Resp:	25066
Ion	Ratio	Lower	Upper
63	100		
98	4.9	2.6	7.8
100	3.2	1.5	4.4

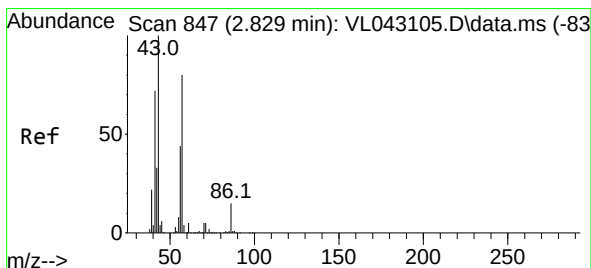
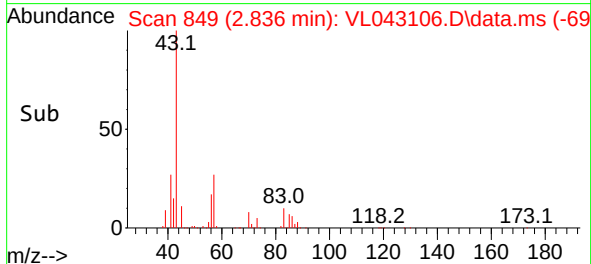
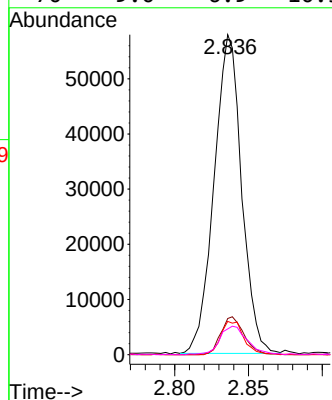
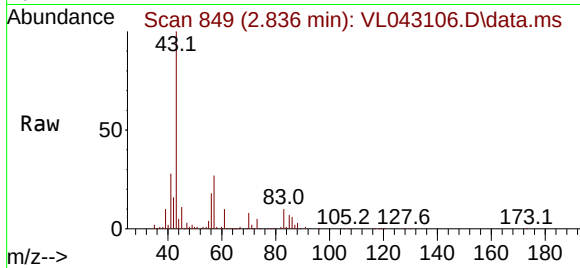




#25
Ethyl Acetate
Concen: 2.129 ppbv
RT: 2.836 min Scan# 849
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

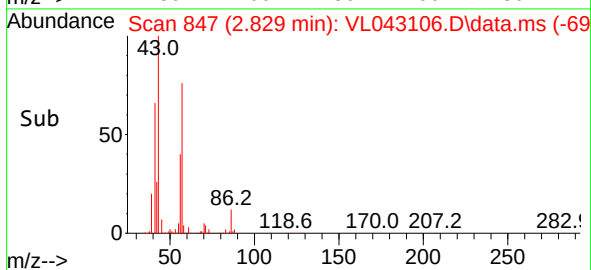
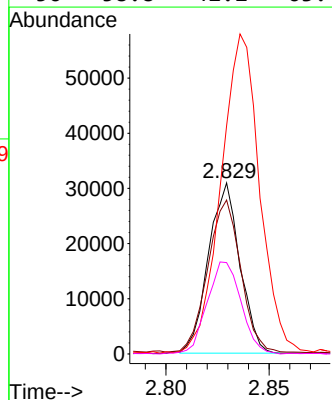
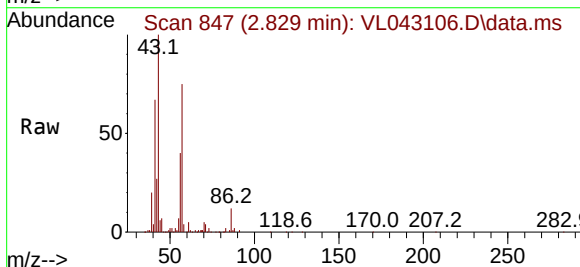
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

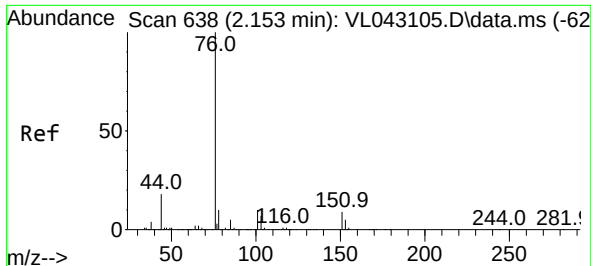
Tgt Ion:	43	Resp:	74929
Ion	Ratio	Lower	Upper
43	100		
45	10.1	7.8	11.8
61	8.9	7.0	10.6
70	9.0	6.9	10.3



#26
Hexane
Concen: 2.010 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion:	57	Resp:	32595
Ion	Ratio	Lower	Upper
57	100		
41	96.4	71.4	107.0
43	233.0	178.5	267.7
56	58.8	42.2	63.4

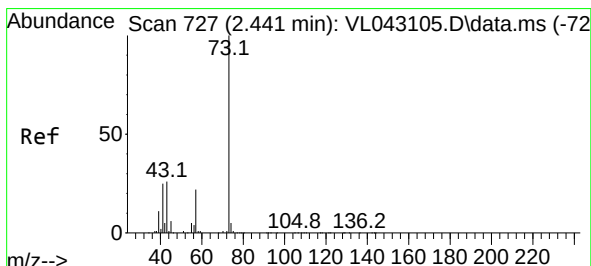
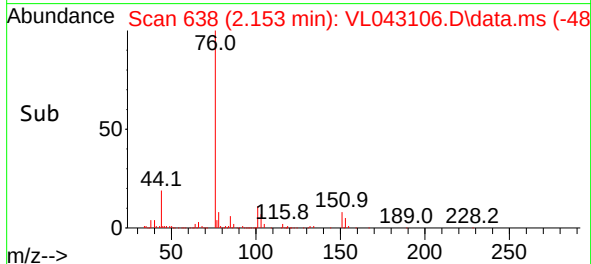
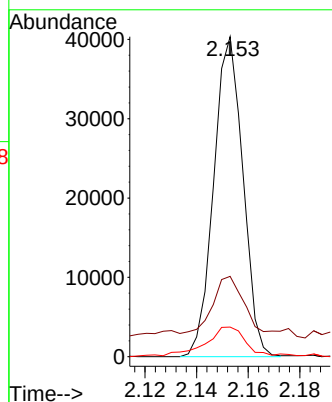
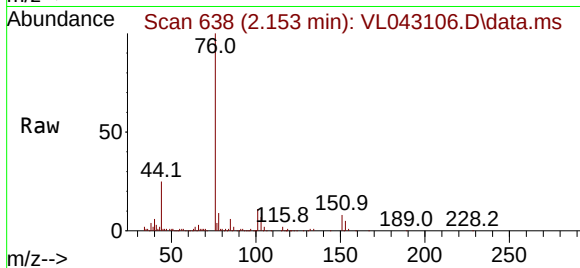




#27
Carbon Disulfide
Concen: 2.134 ppbv
RT: 2.153 min Scan# 611
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

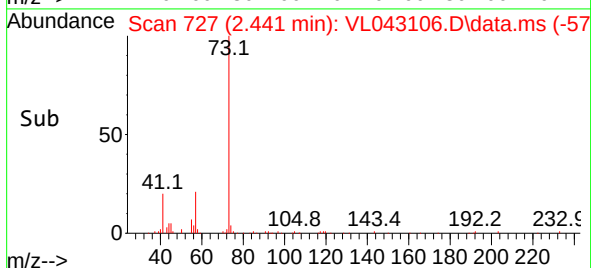
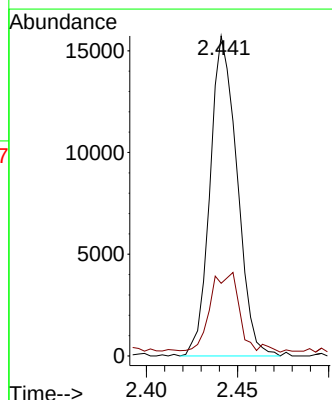
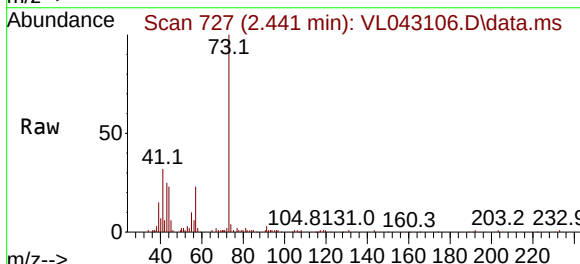
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

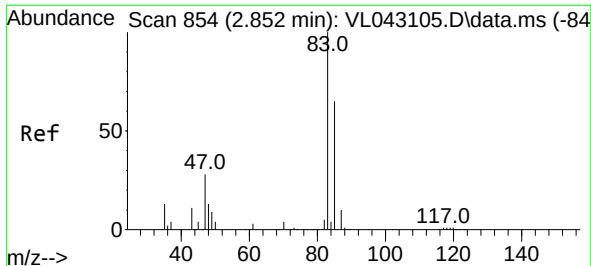
Tgt Ion: 76 Resp: 31705
Ion Ratio Lower Upper
76 100
44 23.1 16.7 25.1
78 13.6 9.3 13.9



#28
Methyl tert-Butyl Ether
Concen: 2.196 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 73 Resp: 16207
Ion Ratio Lower Upper
73 100
57 26.6 20.5 30.7





#29

Chloroform

Concen: 2.058 ppbv

RT: 2.849 min Scan# 81

Delta R.T. -0.003 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

Instrument :

MSVOA_L

ClientSampleId :

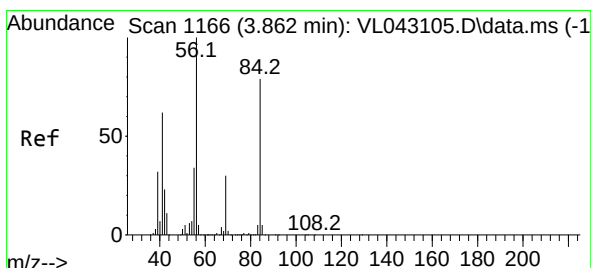
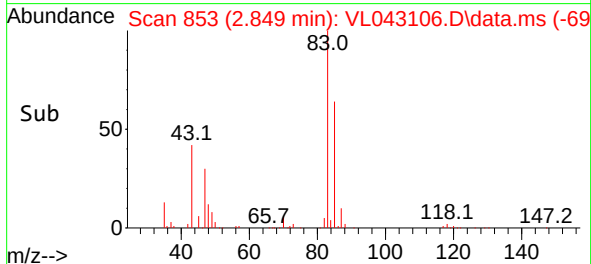
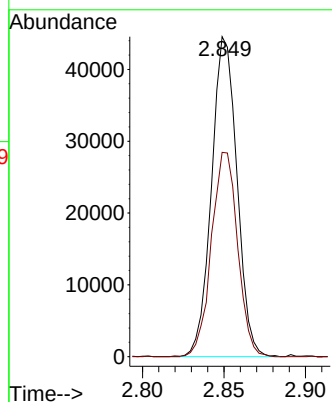
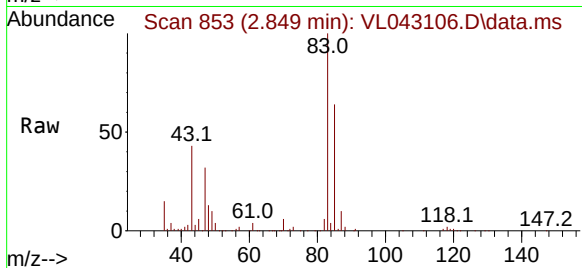
VSTDIC002

Tgt Ion: 83 Resp: 48367

Ion Ratio Lower Upper

83 100

85 63.9 51.8 77.6



#30

Cyclohexane

Concen: 2.069 ppbv

RT: 3.859 min Scan# 1165

Delta R.T. -0.003 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

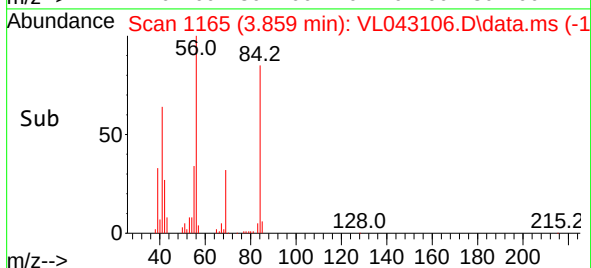
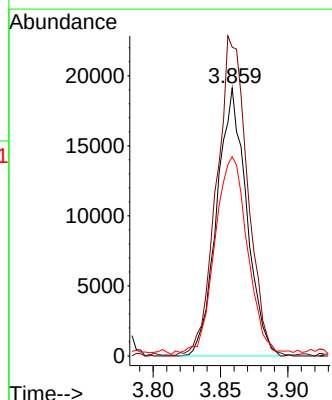
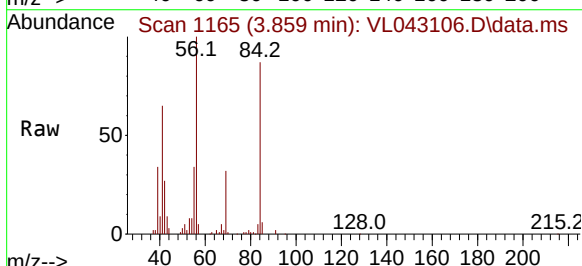
Tgt Ion: 84 Resp: 29270

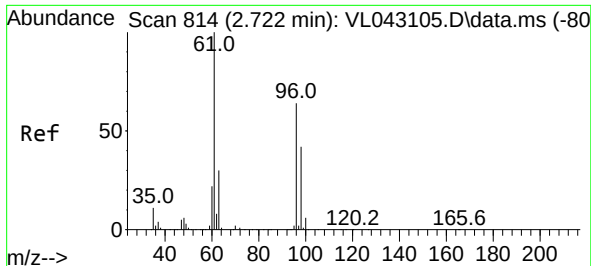
Ion Ratio Lower Upper

84 100

56 125.6 100.9 151.3

41 79.0 63.8 95.6

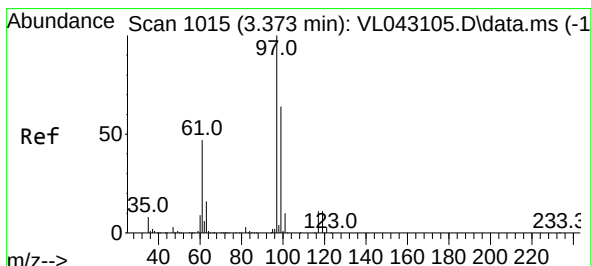
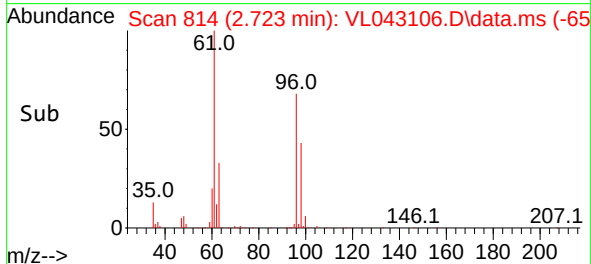
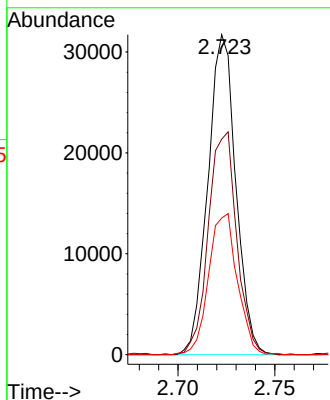
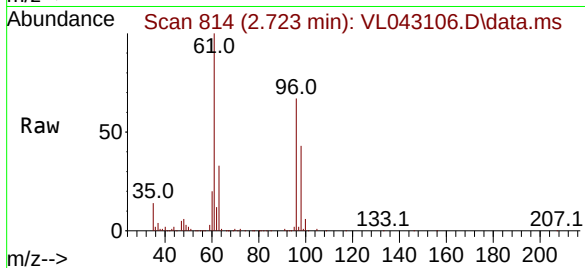




#31
 cis-1,2-Dichloroethene
 Concen: 2.061 ppbv
 RT: 2.723 min Scan# 814
 Delta R.T. 0.000 min
 Lab File: VL043106.D
 Acq: 14 Oct 2025 11:27

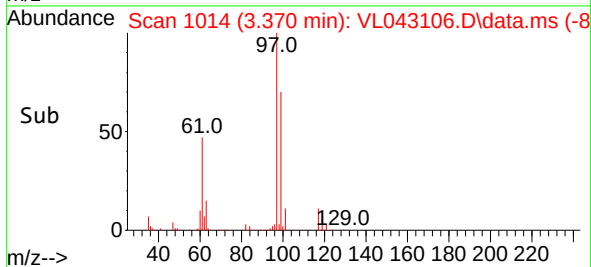
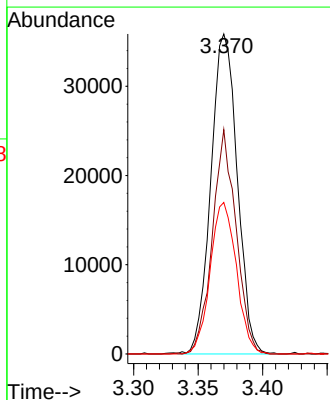
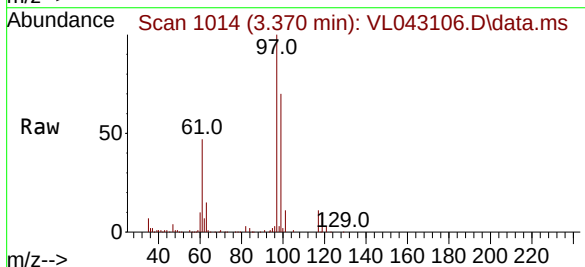
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

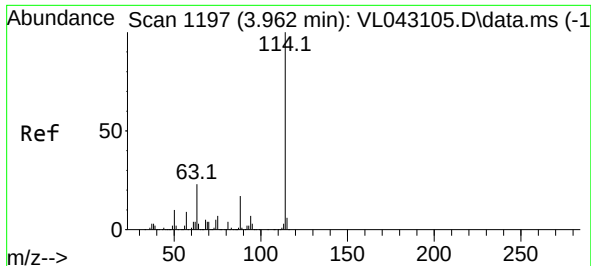
Tgt Ion: 61 Resp: 31925
 Ion Ratio Lower Upper
 61 100
 96 67.3 51.0 76.6
 98 42.3 33.5 50.3



#32
 1,1,1-Trichloroethane
 Concen: 2.086 ppbv
 RT: 3.370 min Scan# 1014
 Delta R.T. -0.003 min
 Lab File: VL043106.D
 Acq: 14 Oct 2025 11:27

Tgt Ion: 97 Resp: 51049
 Ion Ratio Lower Upper
 97 100
 99 62.8 51.3 76.9
 61 46.9 38.4 57.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. -0.003 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

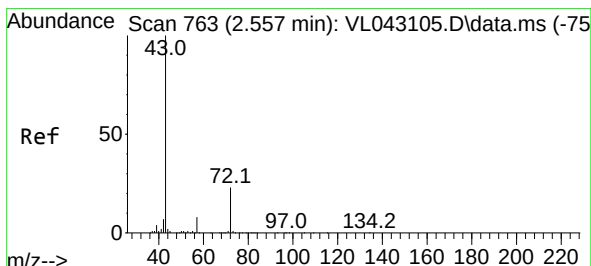
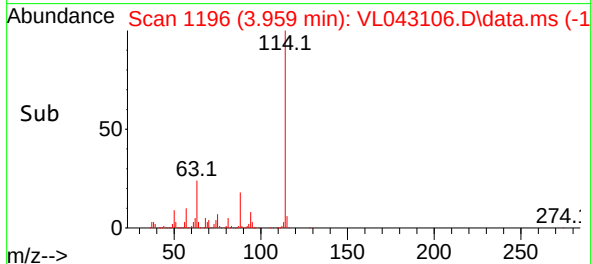
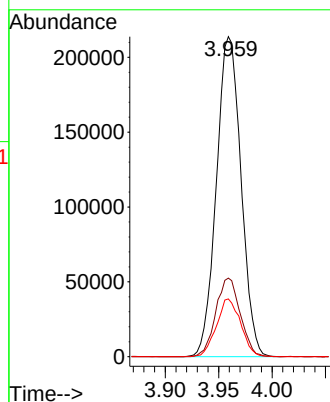
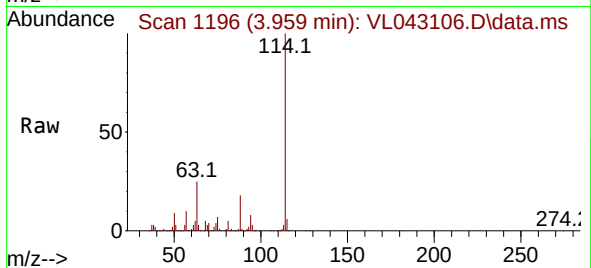
Tgt Ion:114 Resp: 342939

Ion Ratio Lower Upper

114 100

63 24.5 19.3 28.9

88 17.8 13.9 20.9



#34

2-Butanone

Concen: 2.090 ppbv

RT: 2.558 min Scan# 763

Delta R.T. 0.000 min

Lab File: VL043106.D

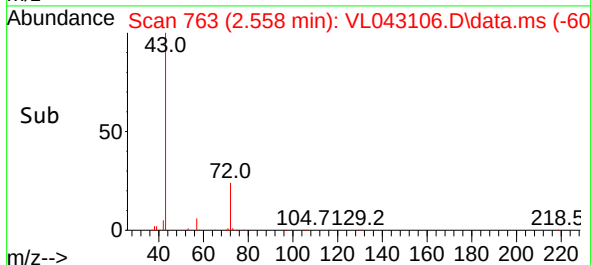
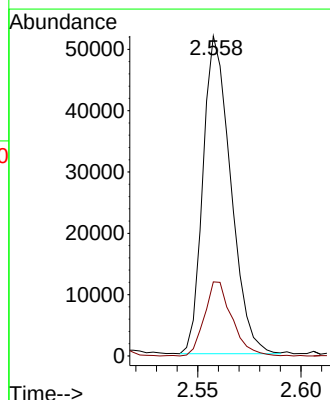
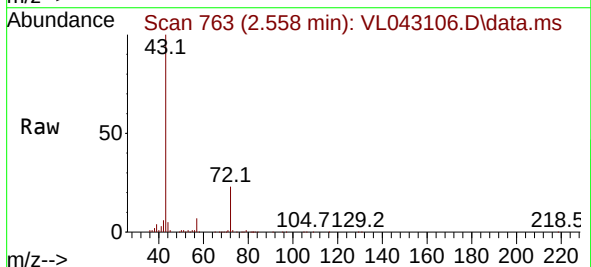
Acq: 14 Oct 2025 11:27

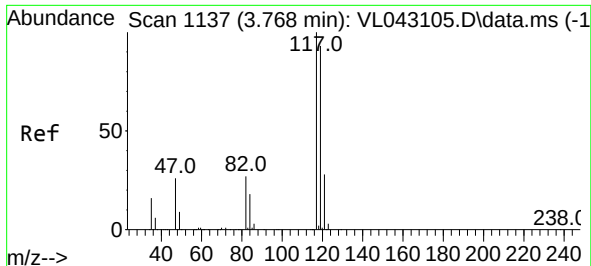
Tgt Ion: 43 Resp: 48458

Ion Ratio Lower Upper

43 100

72 23.3 18.4 27.6

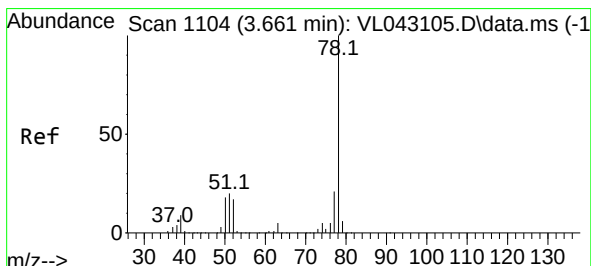
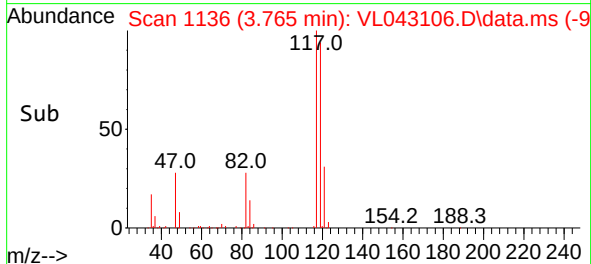
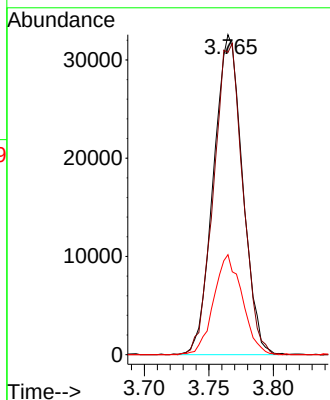
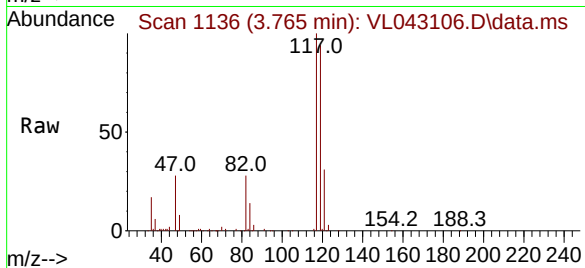




#35
Carbon Tetrachloride
Concen: 2.071 ppbv
RT: 3.765 min Scan# 1136
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

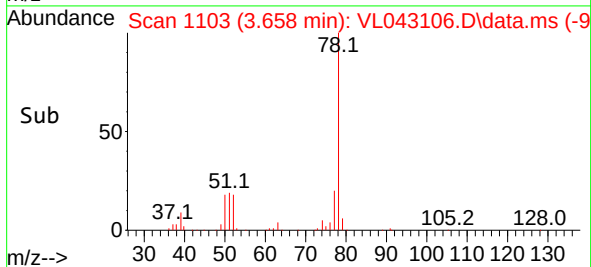
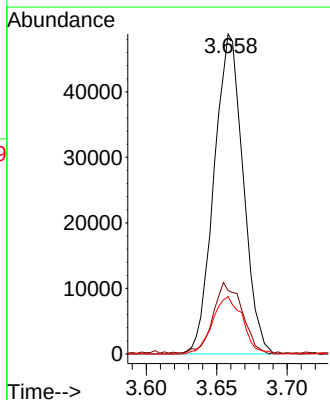
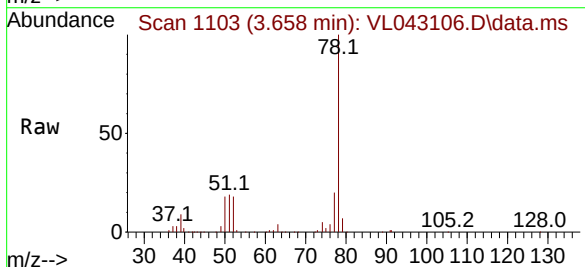
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

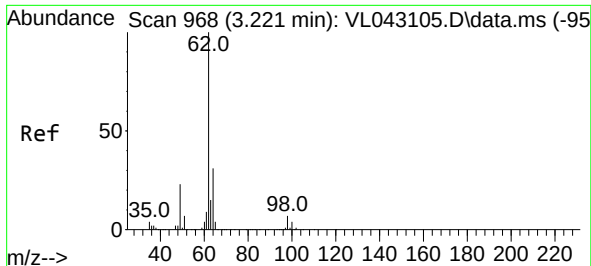
Tgt Ion:117 Resp: 51073
Ion Ratio Lower Upper
117 100
119 94.2 74.1 111.1
121 31.3 22.2 33.2



#36
Benzene
Concen: 2.172 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 78 Resp: 70156
Ion Ratio Lower Upper
78 100
77 19.5 17.0 25.6
50 18.0 14.6 22.0

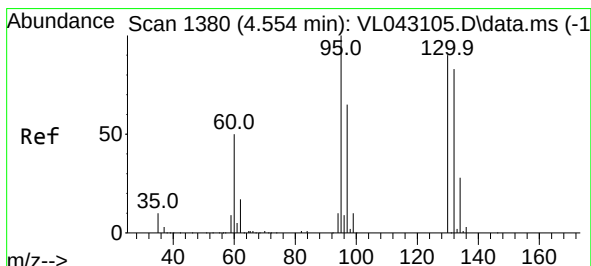
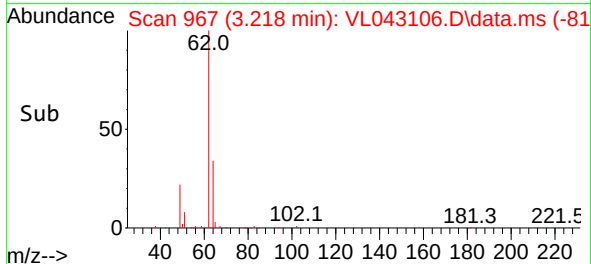
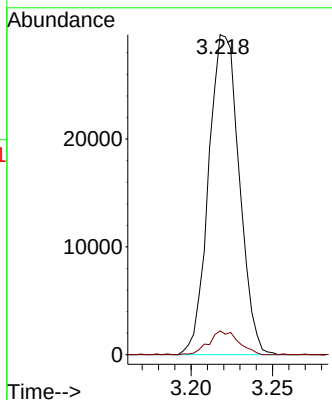
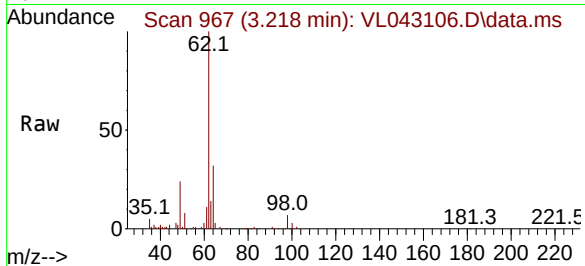




#37
1,2-Dichloroethane
Concen: 2.083 ppbv
RT: 3.218 min Scan# 91
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

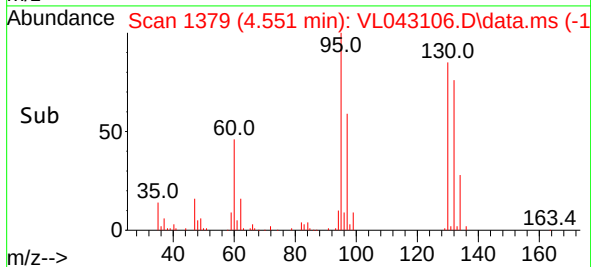
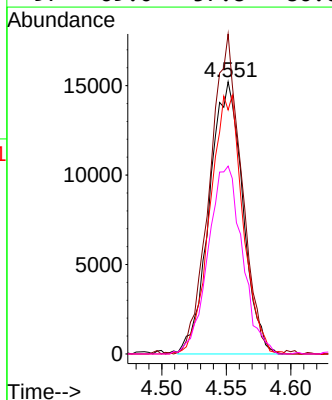
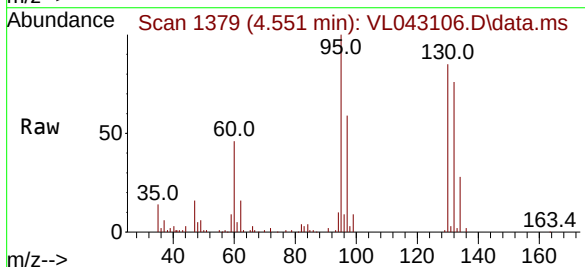
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

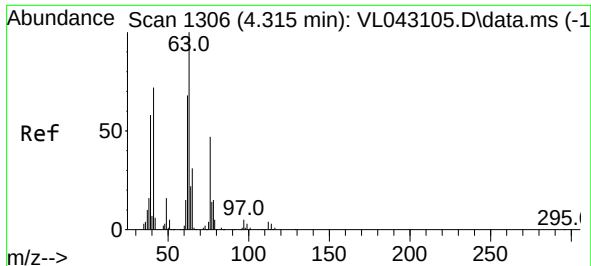
Tgt Ion: 62 Resp: 38767
Ion Ratio Lower Upper
62 100
98 7.3 5.8 8.6



#38
Trichloroethene
Concen: 2.024 ppbv
RT: 4.551 min Scan# 1379
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion:130 Resp: 27272
Ion Ratio Lower Upper
130 100
95 117.1 88.6 133.0
132 89.0 73.4 110.0
97 69.0 57.8 86.6

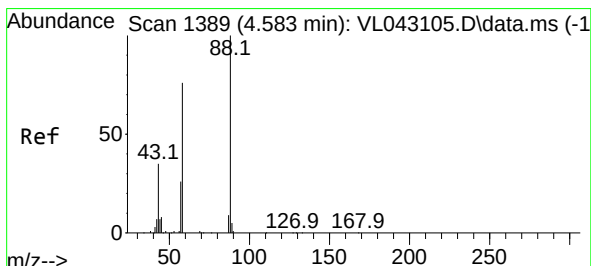
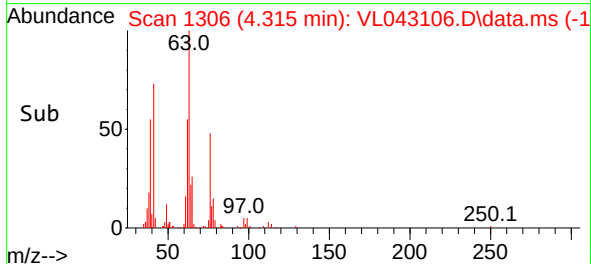
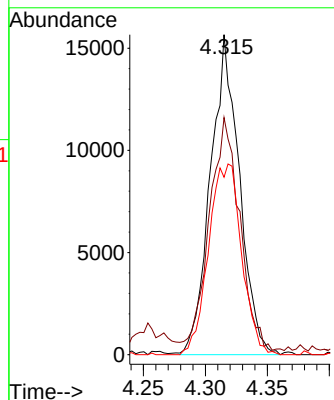
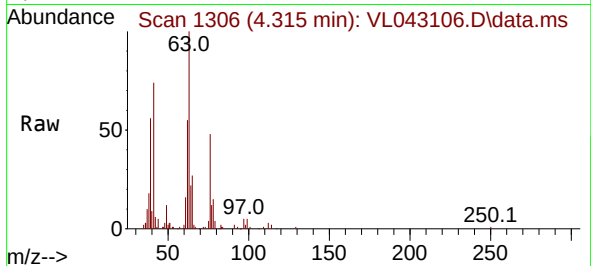




#39
 1,2-Dichloropropane
 Concen: 2.151 ppbv
 RT: 4.315 min Scan# 1306
 Delta R.T. 0.000 min
 Lab File: VL043106.D
 Acq: 14 Oct 2025 11:27

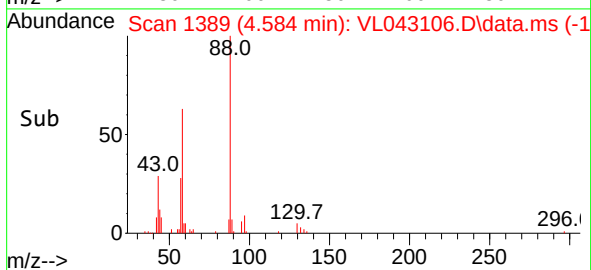
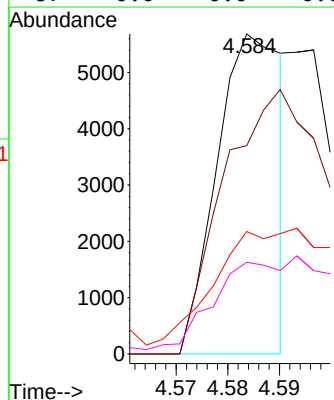
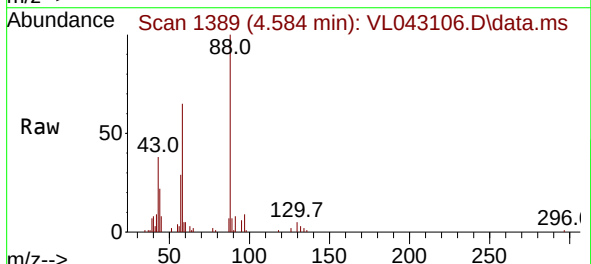
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

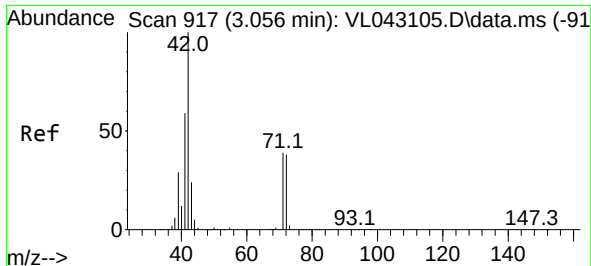
Tgt Ion: 63 Resp: 25427
 Ion Ratio Lower Upper
 63 100
 41 72.3 58.0 87.0
 62 55.5 54.7 82.1



#40
 1,4-Dioxane
 Concen: 0.938 ppbv
 RT: 4.584 min Scan# 1389
 Delta R.T. 0.000 min
 Lab File: VL043106.D
 Acq: 14 Oct 2025 11:27

Tgt Ion: 88 Resp: 4954
 Ion Ratio Lower Upper
 88 100
 58 0.0 61.1 91.7#
 43 0.0 24.0 36.0#
 57 0.0 0.0 0.0

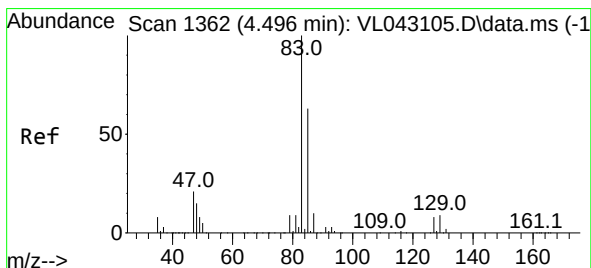
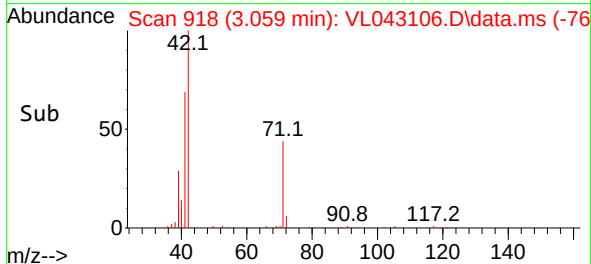
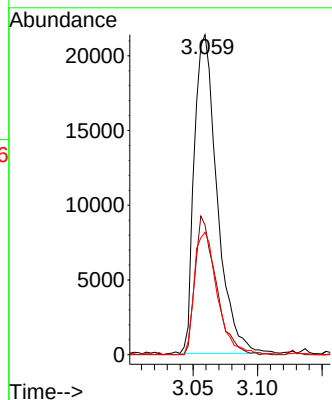
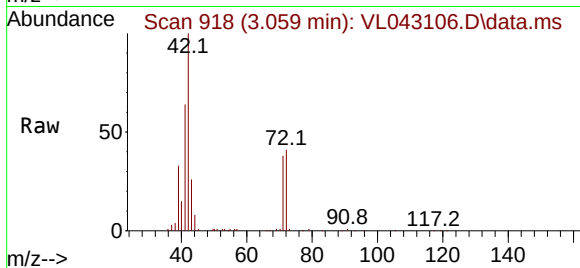




#41
Tetrahydrofuran
Concen: 2.037 ppbv
RT: 3.059 min Scan# 917
Delta R.T. 0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

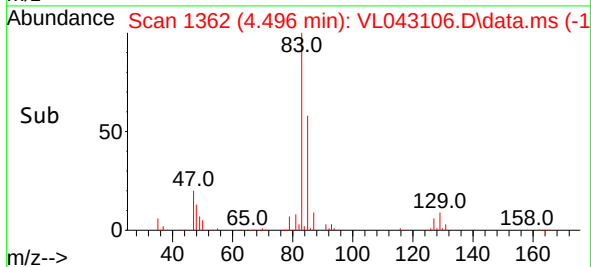
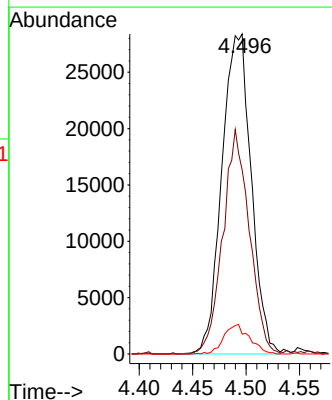
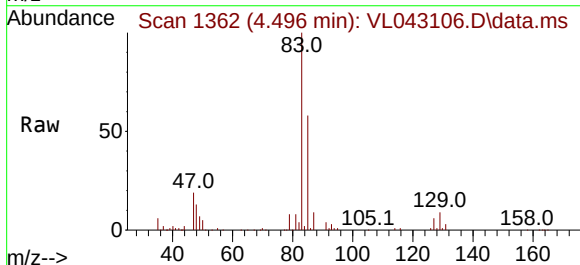
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

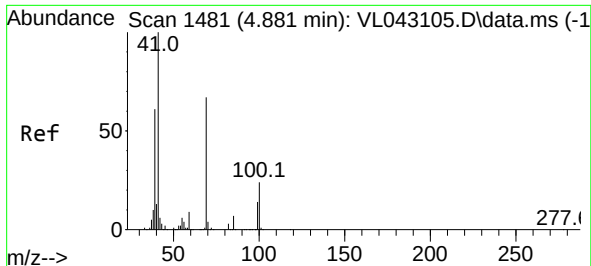
Tgt Ion: 42 Resp: 26362
Ion Ratio Lower Upper
42 100
72 39.7 31.3 46.9
71 39.4 30.4 45.6



#42
Bromodichloromethane
Concen: 2.106 ppbv
RT: 4.496 min Scan# 1362
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 83 Resp: 54224
Ion Ratio Lower Upper
83 100
85 57.6 50.6 75.8
127 6.2 6.3 9.5

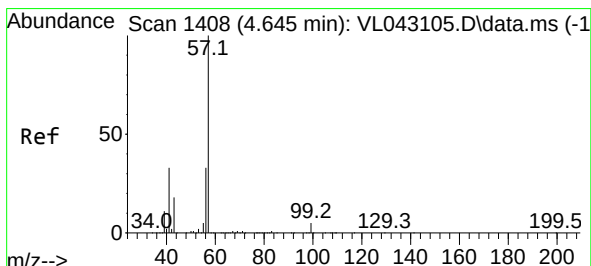
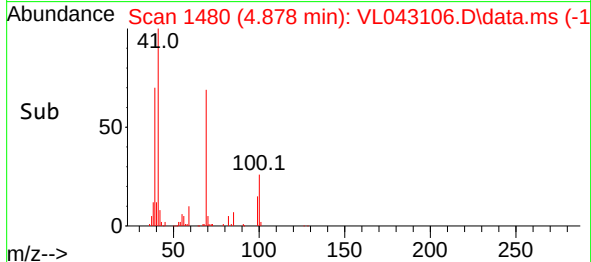
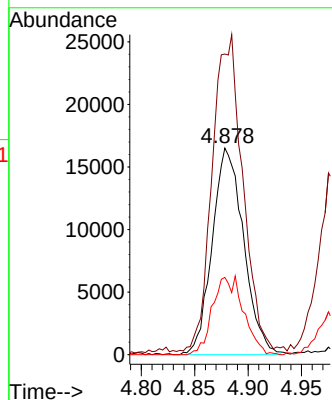
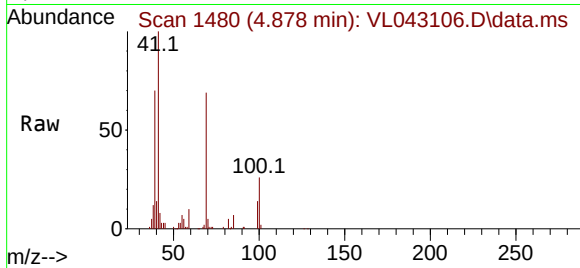




#43
Methyl Methacrylate
Concen: 2.051 ppbv
RT: 4.878 min Scan# 1480
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

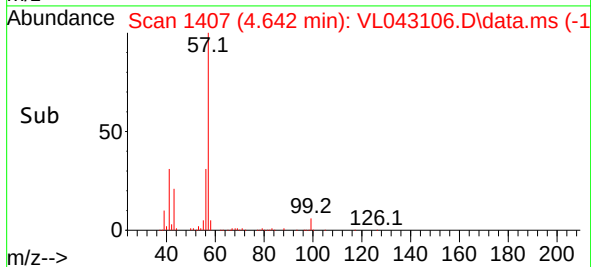
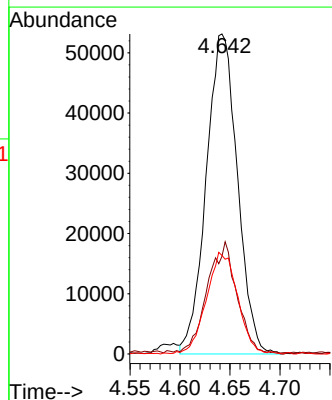
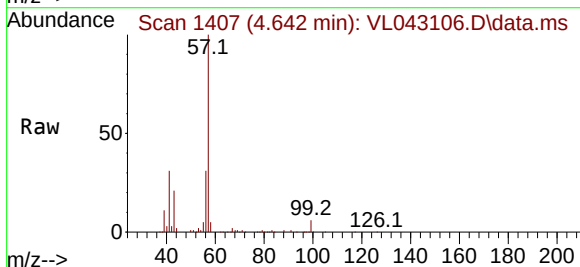
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

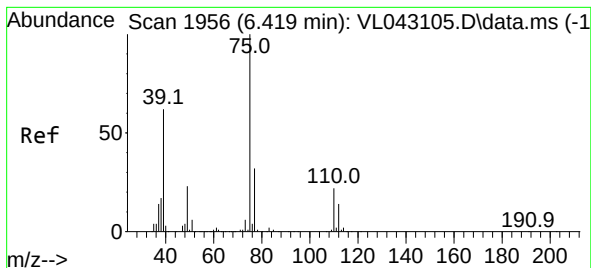
Tgt Ion: 69 Resp: 33805
Ion Ratio Lower Upper
69 100
41 151.4 120.5 180.7
100 37.3 29.0 43.4



#44
2,2,4-Trimethylpentane
Concen: 2.137 ppbv
RT: 4.642 min Scan# 1407
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 57 Resp: 115417
Ion Ratio Lower Upper
57 100
41 34.0 26.3 39.5
56 31.9 25.9 38.9





#45

t-1,3-Dichloropropene

Concen: 2.109 ppbv

RT: 6.416 min Scan# 1956

Delta R.T. -0.003 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

Instrument :

MSVOA_L

ClientSampleId :

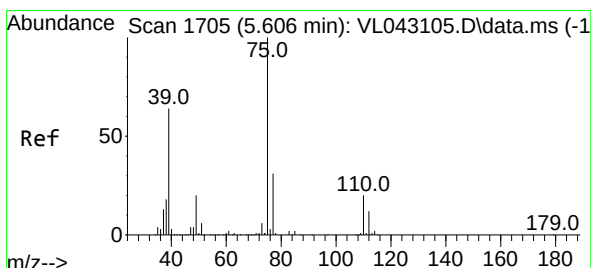
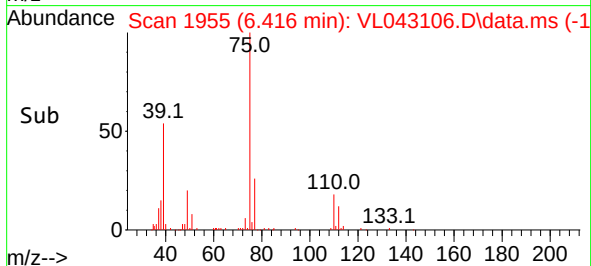
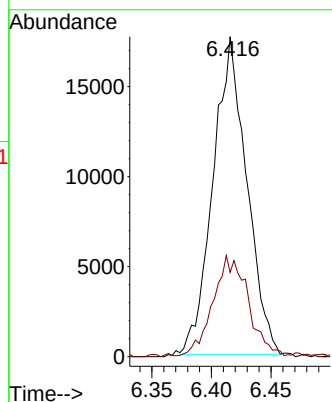
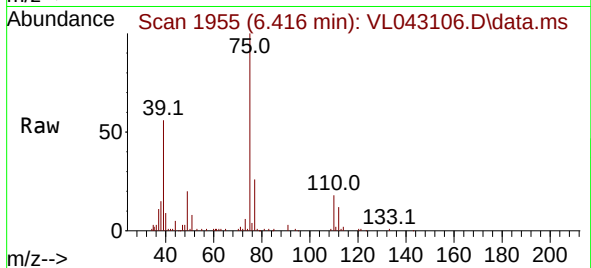
VSTDICC002

Tgt Ion: 75 Resp: 34728

Ion Ratio Lower Upper

75 100

77 26.3 25.4 38.2



#46

cis-1,3-Dichloropropene

Concen: 1.202 ppbv

RT: 5.600 min Scan# 1703

Delta R.T. -0.006 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

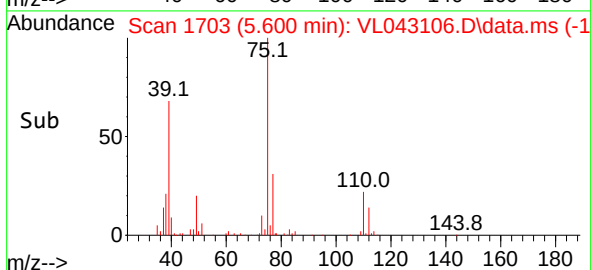
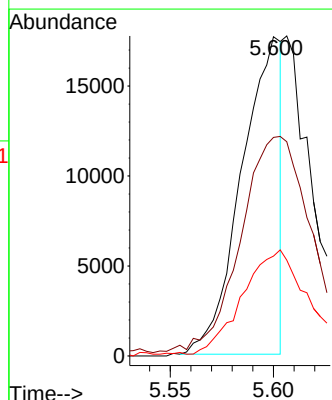
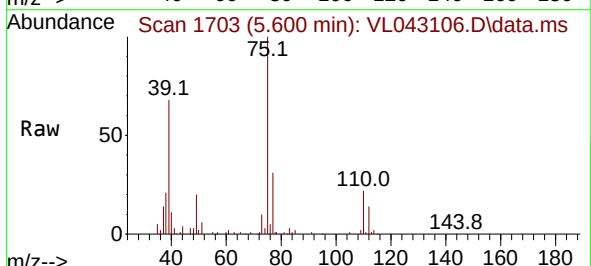
Tgt Ion: 75 Resp: 23612

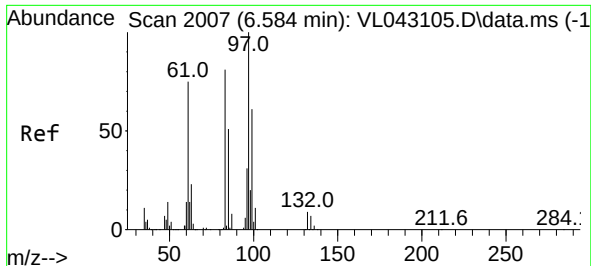
Ion Ratio Lower Upper

75 100

39 65.4 51.0 76.6

77 30.3 25.0 37.4





#47

1,1,2-Trichloroethane

Concen: 2.067 ppbv

RT: 6.584 min Scan# 2007

Delta R.T. 0.000 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion: 97 Resp: 26359

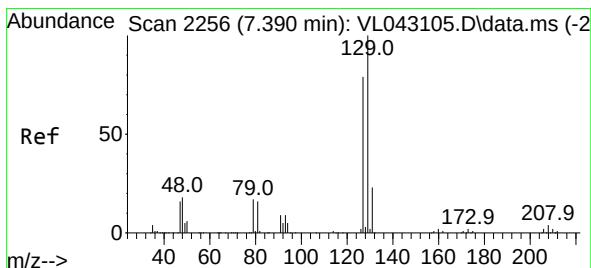
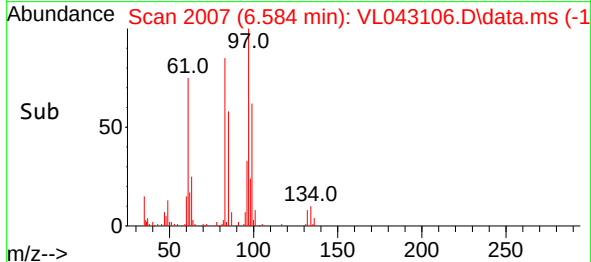
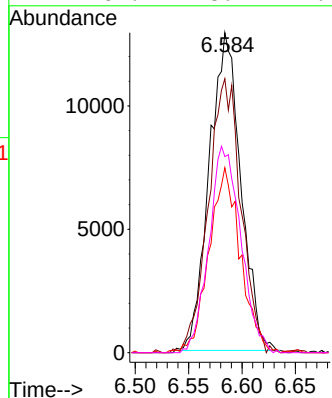
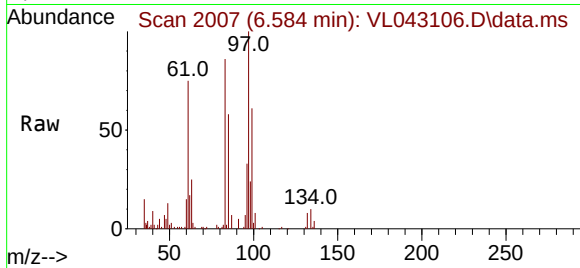
Ion Ratio Lower Upper

97 100

83 86.2 64.6 96.8

85 58.2 40.6 60.8

99 61.7 48.4 72.6



#48

Dibromochloromethane

Concen: 2.146 ppbv

RT: 7.390 min Scan# 2256

Delta R.T. 0.000 min

Lab File: VL043106.D

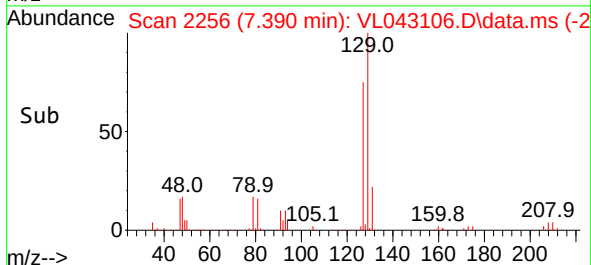
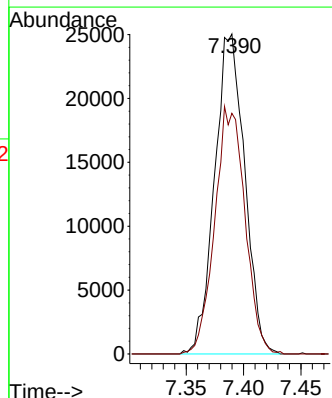
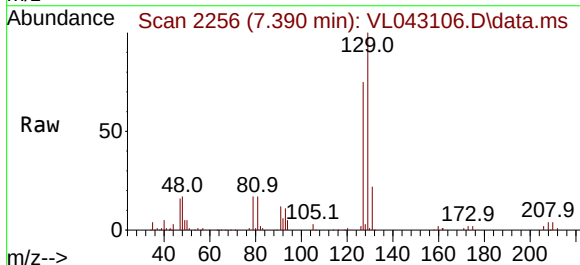
Acq: 14 Oct 2025 11:27

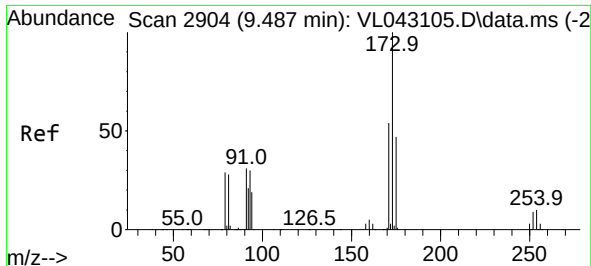
Tgt Ion: 129 Resp: 45751

Ion Ratio Lower Upper

129 100

127 77.3 39.3 117.9

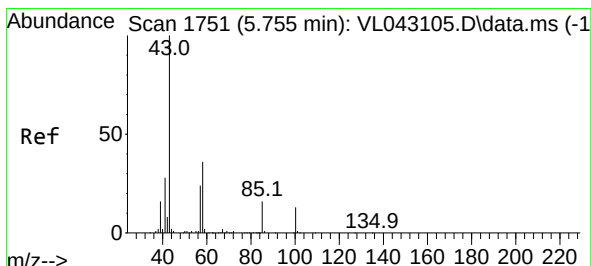
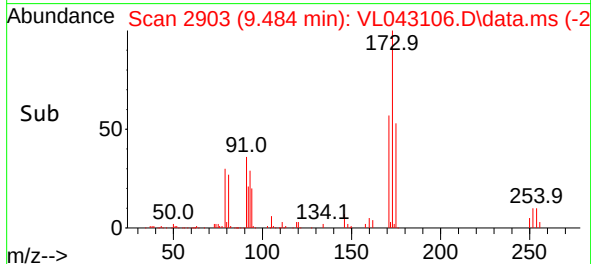
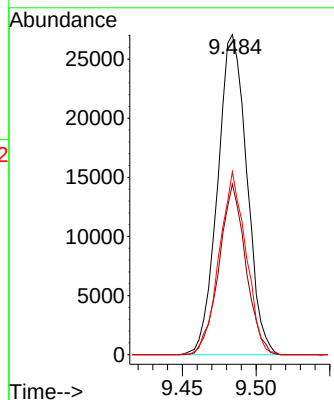
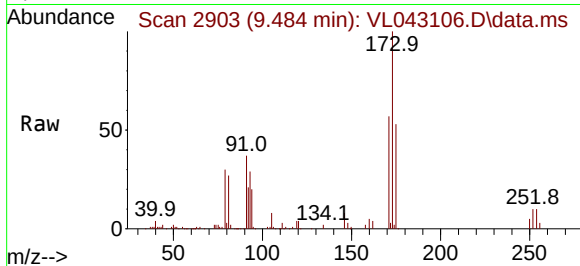




#49
Bromoform
Concen: 2.153 ppbv
RT: 9.484 min Scan# 2904
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

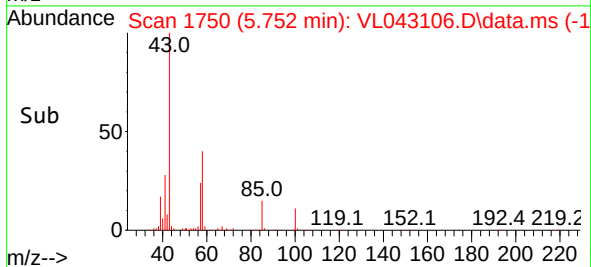
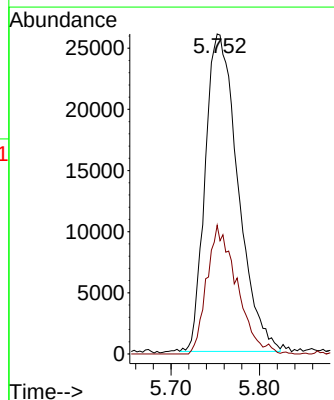
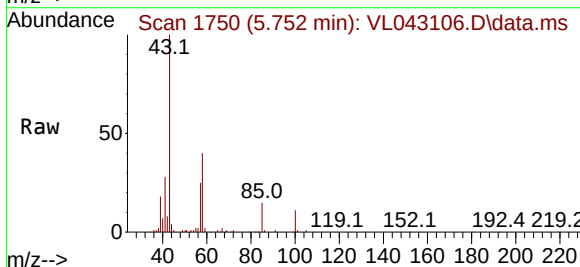
Instrument : MSVOA_L
ClientSampleId : VSTDIC002

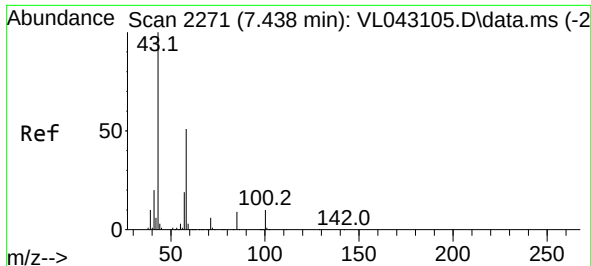
Tgt Ion:173 Resp: 37314
Ion Ratio Lower Upper
173 100
175 48.7 38.8 58.2
171 52.7 41.7 62.5



#50
4-Methyl-2-Pentanone
Concen: 2.089 ppbv
RT: 5.752 min Scan# 1750
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 43 Resp: 66811
Ion Ratio Lower Upper
43 100
58 37.2 29.1 43.7

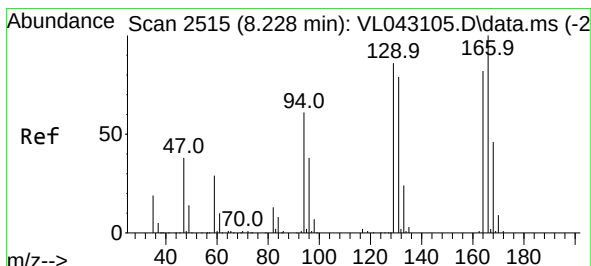
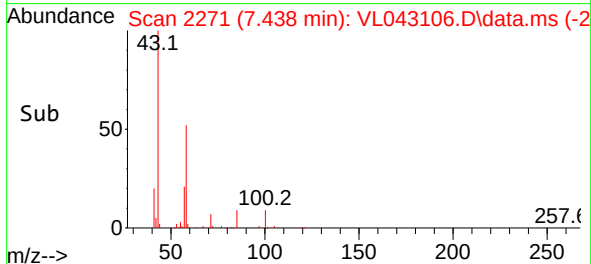
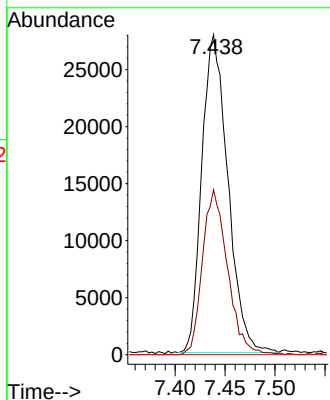
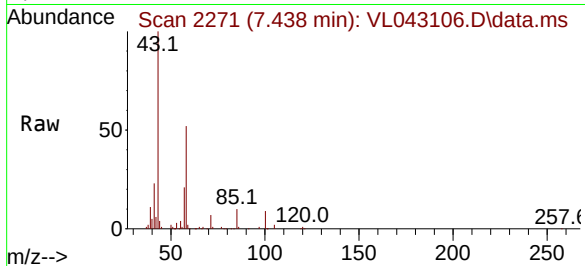




#51
2-Hexanone
Concen: 2.122 ppbv
RT: 7.438 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

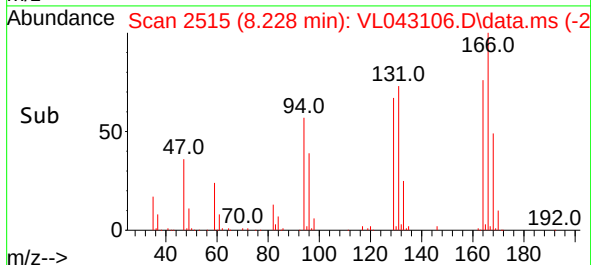
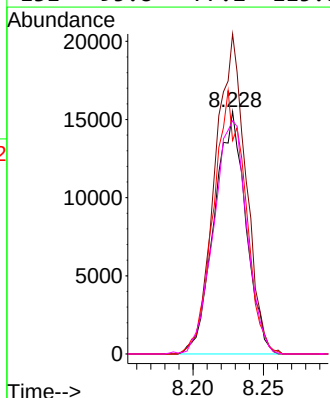
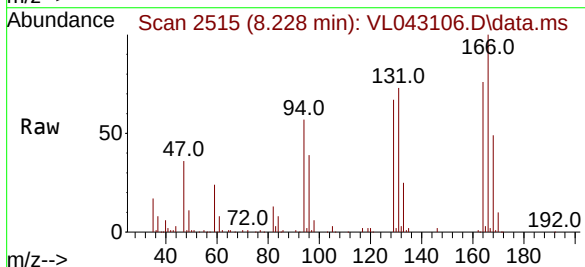
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

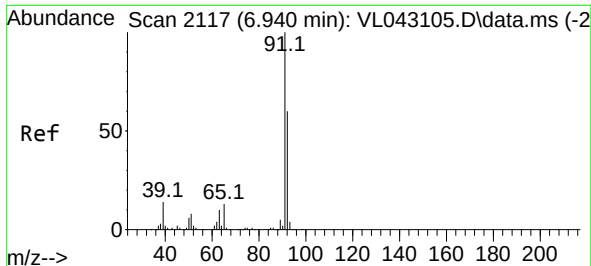
Tgt Ion: 43 Resp: 50642
Ion Ratio Lower Upper
43 100
58 49.8 40.4 60.6
98 0.0 0.1 0.1#



#52
Tetrachloroethene
Concen: 2.076 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 164 Resp: 24183
Ion Ratio Lower Upper
164 100
166 132.0 97.6 146.4
129 88.0 84.5 126.7
131 95.8 77.2 115.8

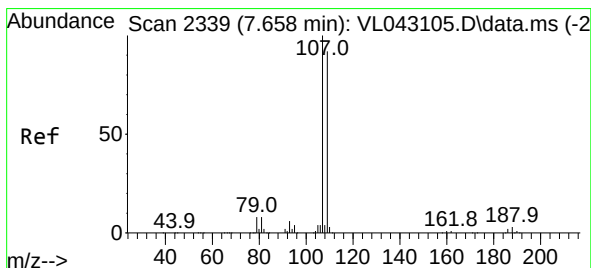
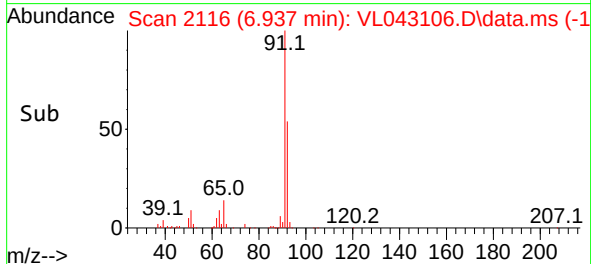
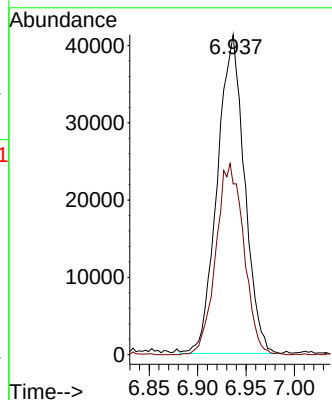
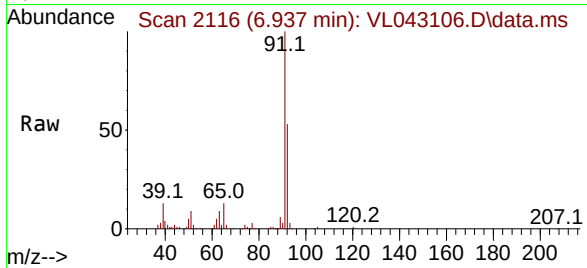




#53
Toluene
Concen: 2.104 ppbv
RT: 6.937 min Scan# 2116
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

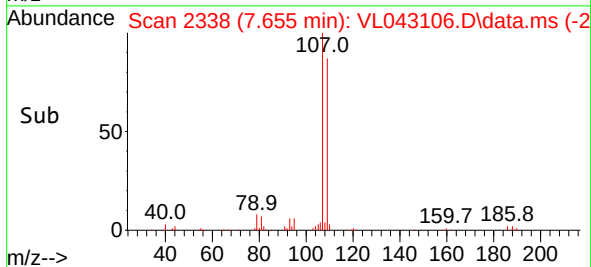
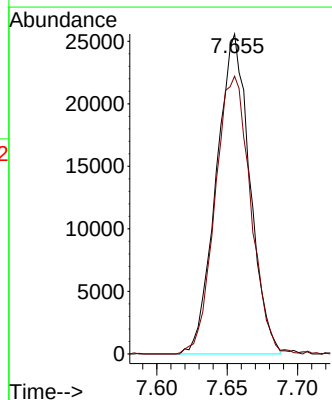
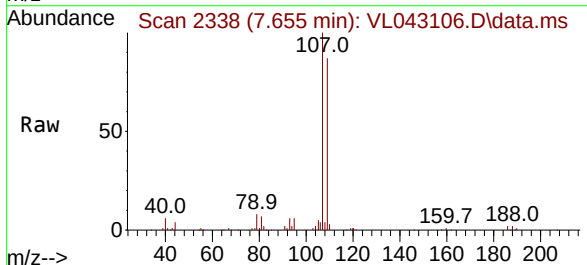
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

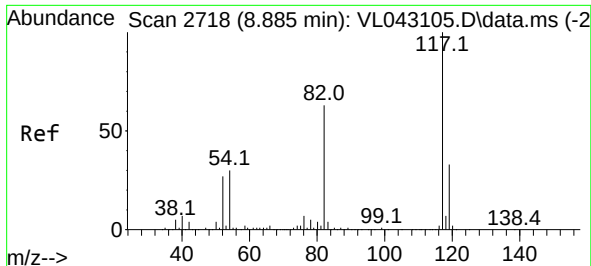
Tgt Ion: 91 Resp: 80660
Ion Ratio Lower Upper
91 100
92 61.5 48.8 73.2



#54
1,2-Dibromoethane
Concen: 2.103 ppbv
RT: 7.655 min Scan# 2338
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 107 Resp: 42320
Ion Ratio Lower Upper
107 100
109 86.5 73.4 110.2

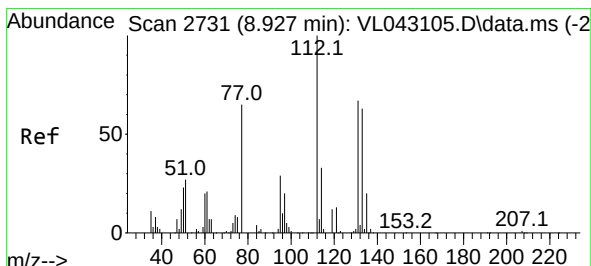
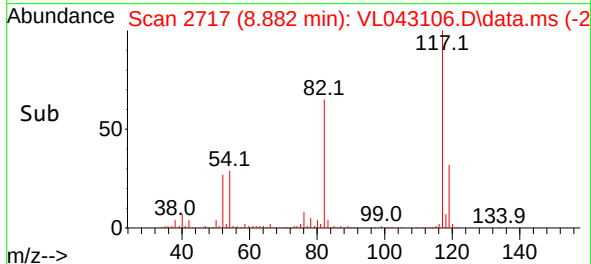
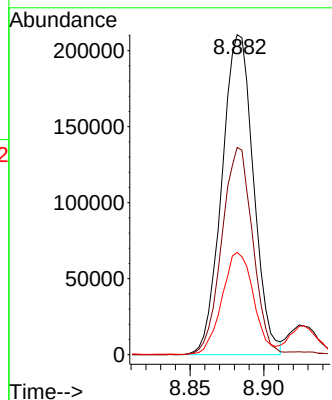
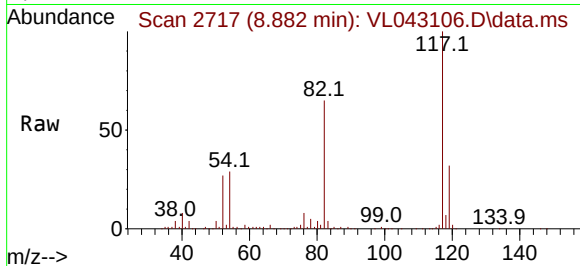




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

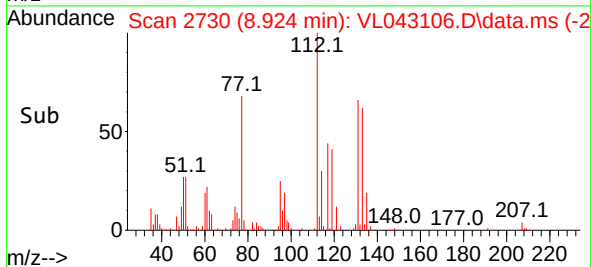
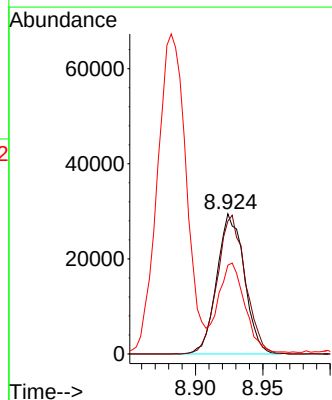
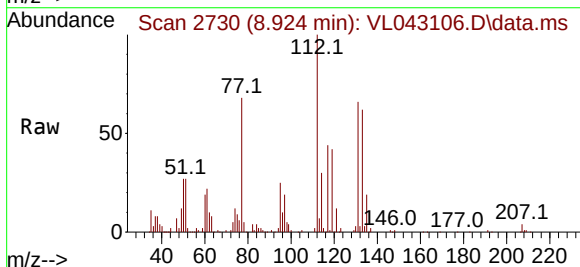
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

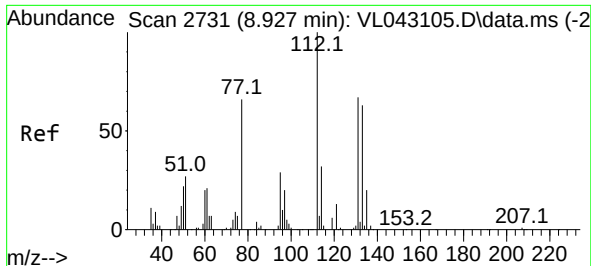
Tgt Ion:117 Resp: 313603
Ion Ratio Lower Upper
117 100
82 63.9 53.8 80.8
119 32.3 25.4 38.0



#56
1,1,1,2-Tetrachloroethane
Concen: 2.110 ppbv
RT: 8.924 min Scan# 2730
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion:131 Resp: 41712
Ion Ratio Lower Upper
131 100
133 101.2 75.7 113.5
119 59.2 50.6 76.0





#57

Chlorobenzene

Concen: 2.138 ppbv

RT: 8.924 min Scan# 21

Delta R.T. -0.003 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

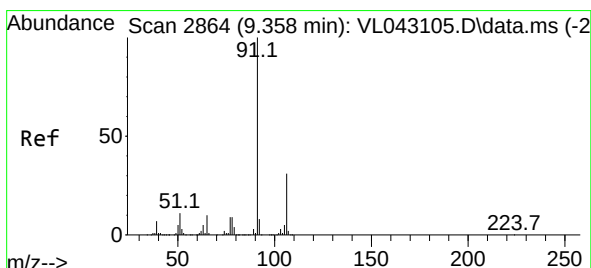
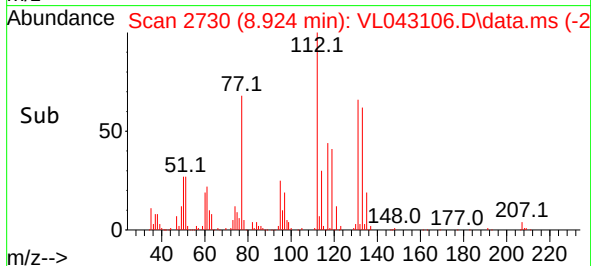
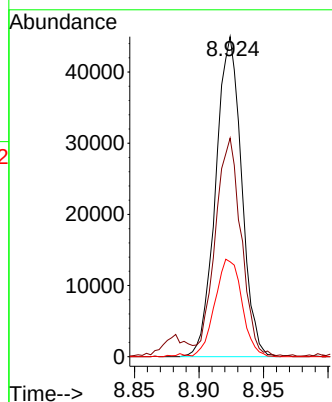
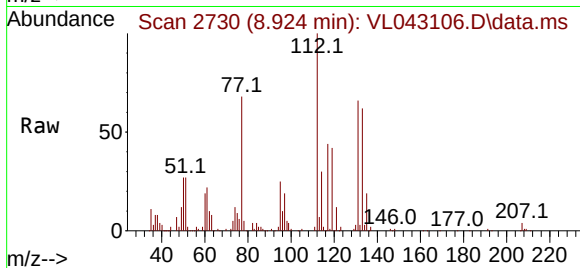
Instrument :

MSVOA_1

ClientSampleId :

VSTDIC002

Tgt Ion:112	Resp:	62714
Ion Ratio	Lower	Upper
112	100	
77	67.8	53.3 79.9
114	29.6	29.3 35.8



#58

Ethyl Benzene

Concen: 2.109 ppbv

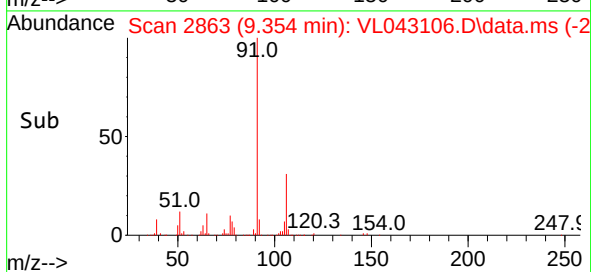
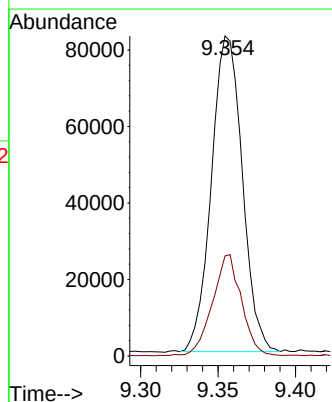
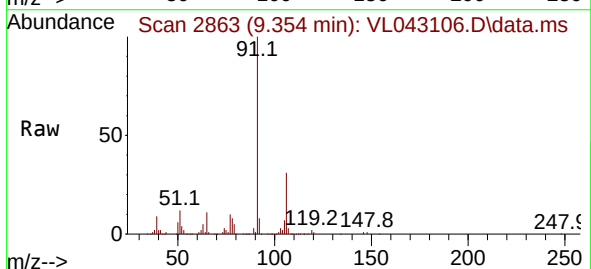
RT: 9.354 min Scan# 2863

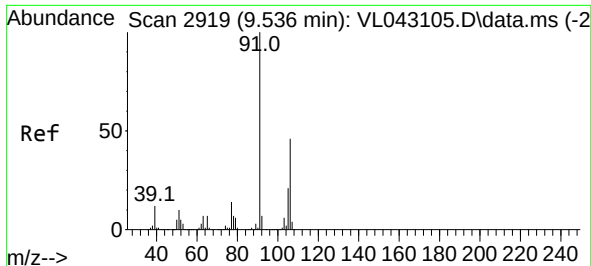
Delta R.T. -0.003 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

Tgt Ion: 91	Resp:	114403
Ion Ratio	Lower	Upper
91	100	
106	31.5	24.8 37.2

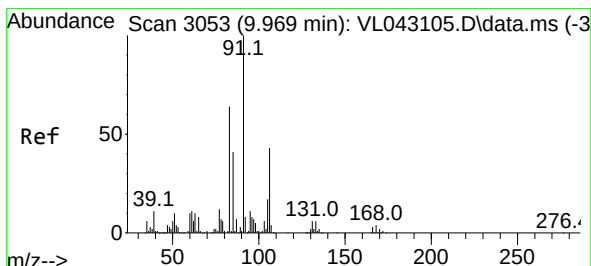
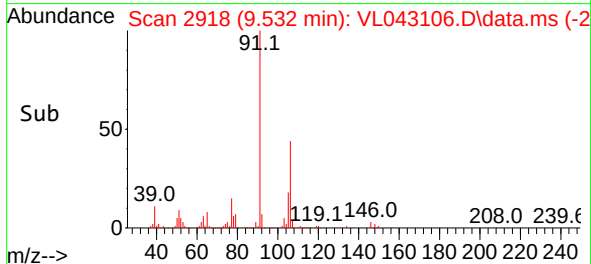
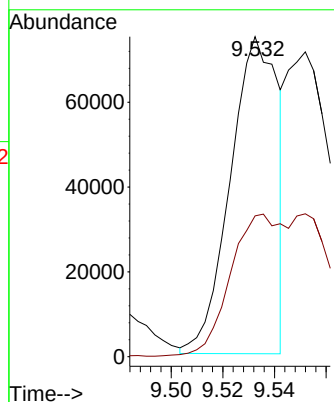
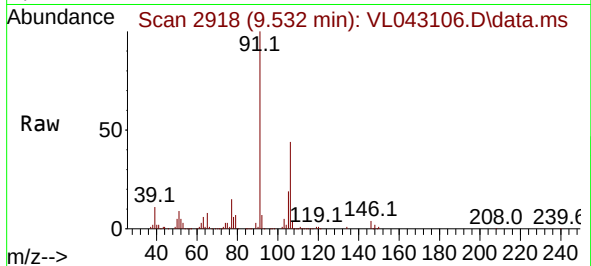




#59
m/p-Xylene
Concen: 2.238 ppbv
RT: 9.532 min Scan# 2919
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

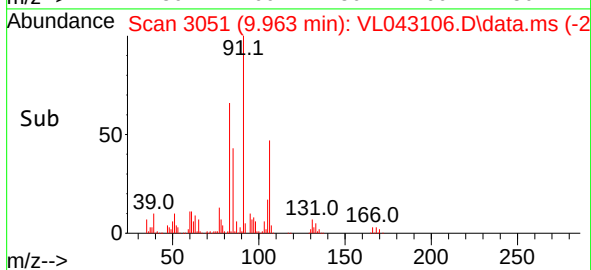
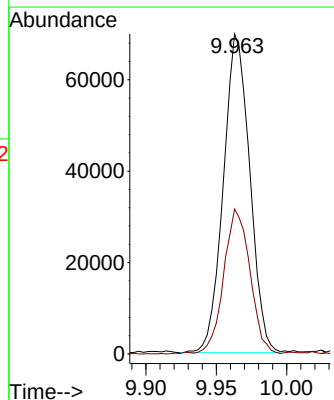
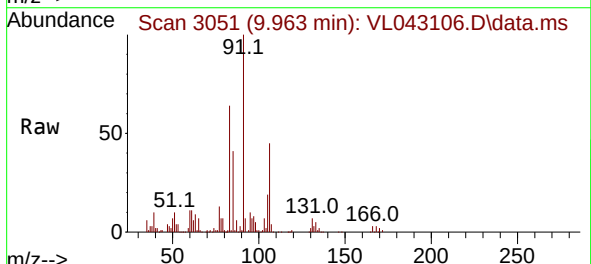
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

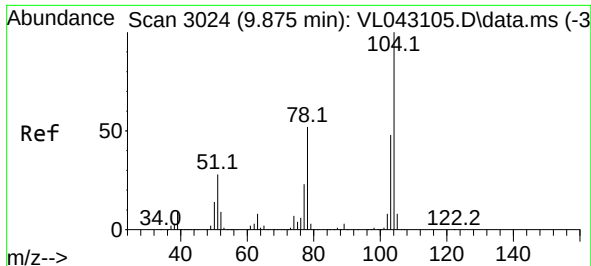
Tgt Ion: 91 Resp: 96158
Ion Ratio Lower Upper
91 100
106 0.0 38.0 57.0#



#60
o-Xylene
Concen: 2.152 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. -0.006 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 91 Resp: 91223
Ion Ratio Lower Upper
91 100
106 45.2 21.9 65.8

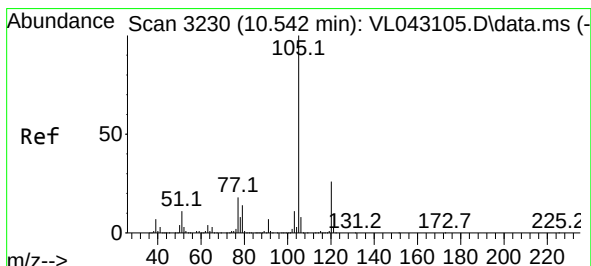
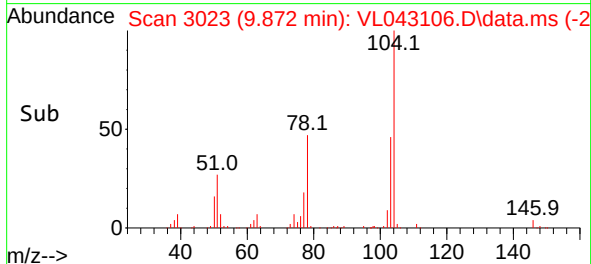
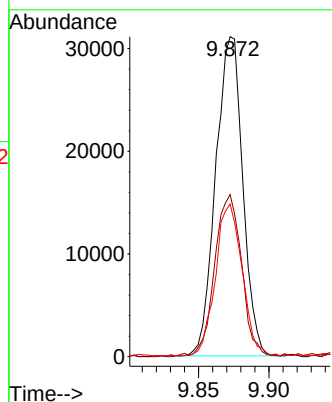
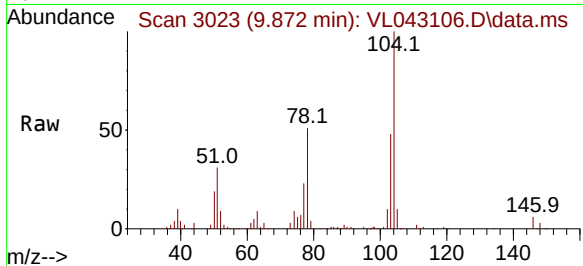




#61
Styrene
Concen: 2.175 ppbv
RT: 9.872 min Scan# 3024
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

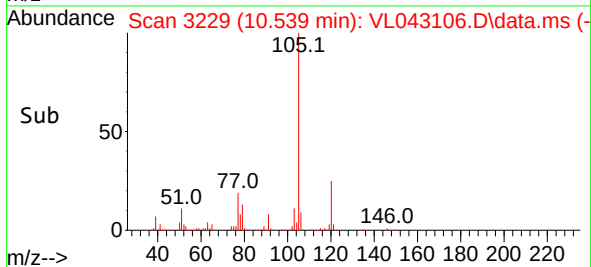
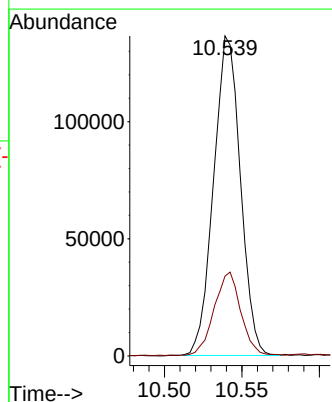
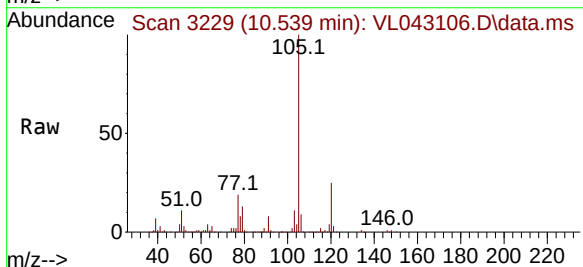
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

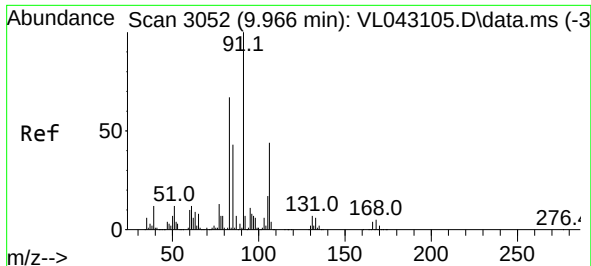
Tgt Ion:104 Resp: 41631
Ion Ratio Lower Upper
104 100
78 51.1 40.2 60.2
103 47.4 36.9 55.3



#62
Isopropylbenzene
Concen: 2.142 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion:105 Resp: 164073
Ion Ratio Lower Upper
105 100
120 26.1 20.2 30.4

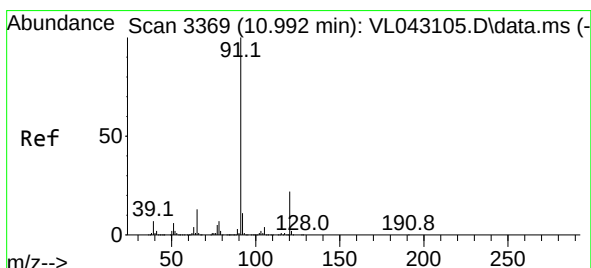
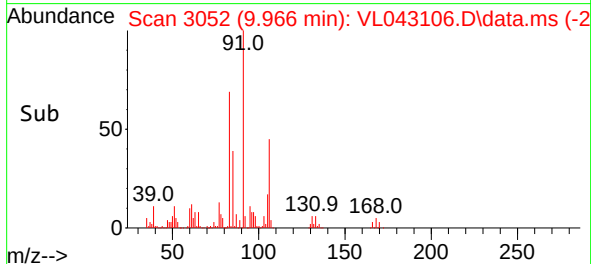
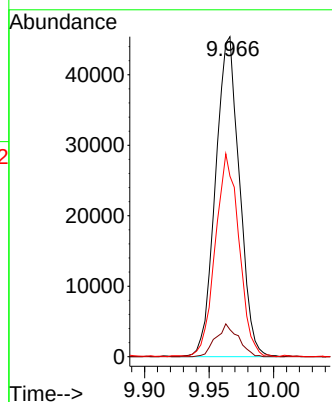
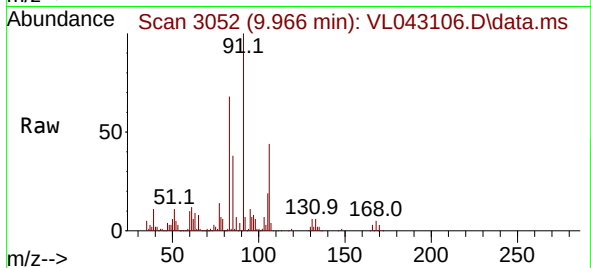




#63
1,1,2,2-Tetrachloroethane
Concen: 2.061 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

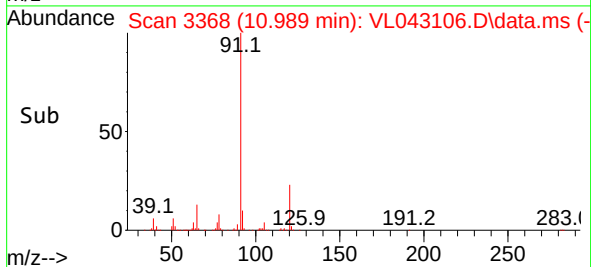
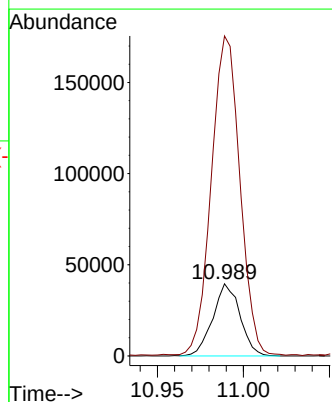
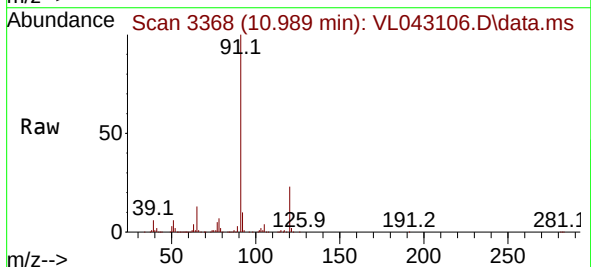
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC002

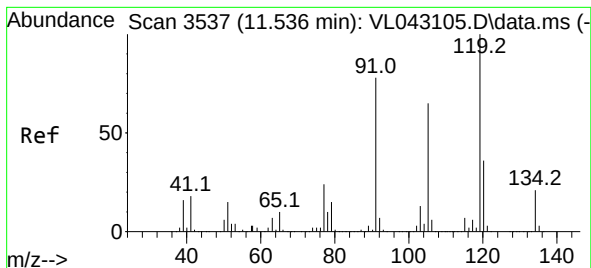
Tgt Ion: 83 Resp: 58510
Ion Ratio Lower Upper
83 100
131 9.6 4.8 14.3
85 63.2 32.0 96.0



#64
n-propylbenzene
Concen: 2.152 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 120 Resp: 43648
Ion Ratio Lower Upper
120 100
91 462.4 361.6 542.4





#65

tert-Butylbenzene

Concen: 2.192 ppbv

RT: 11.529 min Scan# 3535

Delta R.T. -0.006 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

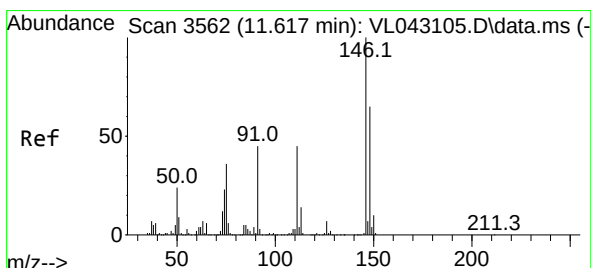
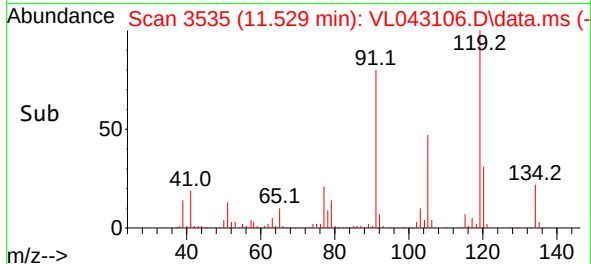
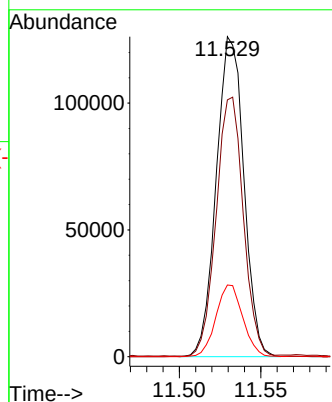
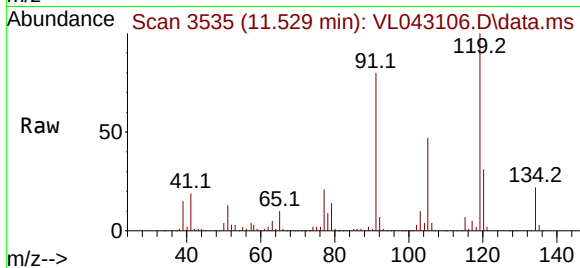
Tgt Ion:119 Resp: 148300

Ion Ratio Lower Upper

119 100

91 80.2 63.4 95.0

134 22.0 17.3 25.9



#66

Benzyl Chloride

Concen: 2.072 ppbv

RT: 11.617 min Scan# 3562

Delta R.T. 0.000 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

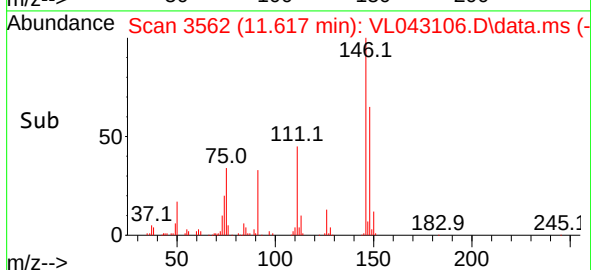
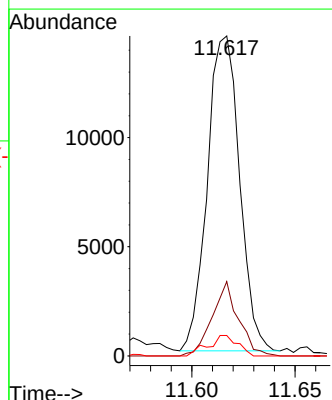
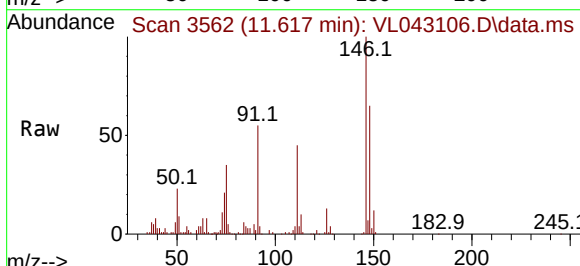
Tgt Ion: 91 Resp: 15656

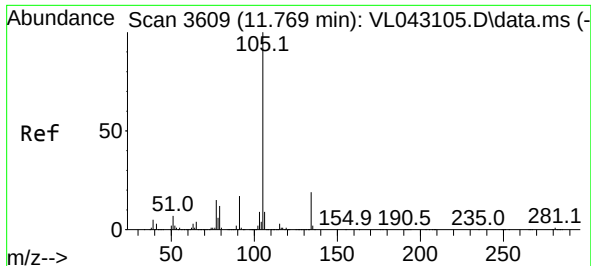
Ion Ratio Lower Upper

91 100

126 19.2 14.6 22.0

128 5.9 4.6 6.8

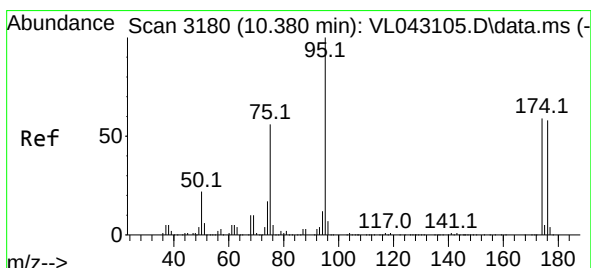
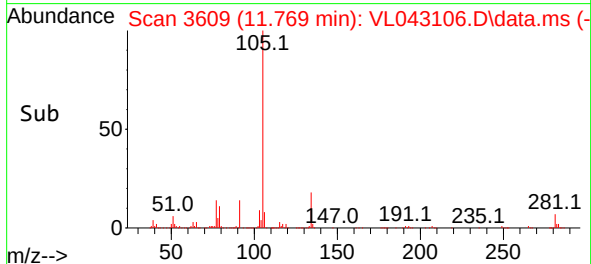
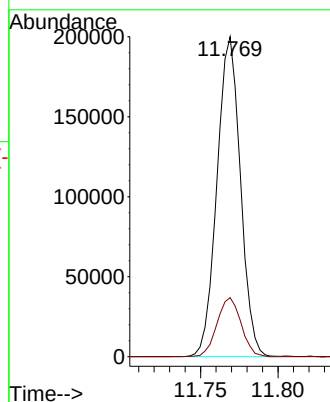
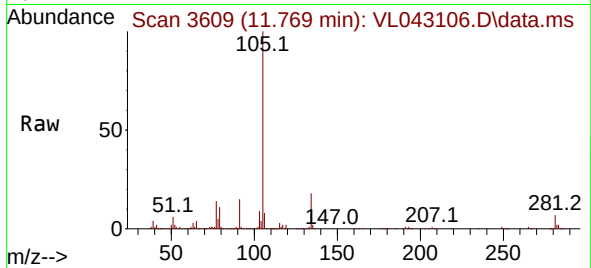




#67
 sec-Butylbenzene
 Concen: 2.193 ppbv
 RT: 11.769 min Scan# 3179
 Delta R.T. 0.000 min
 Lab File: VL043106.D
 Acq: 14 Oct 2025 11:27

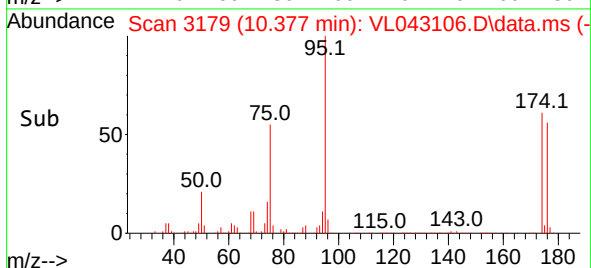
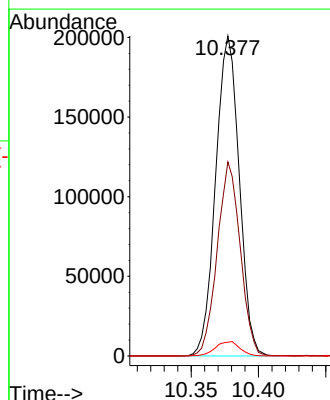
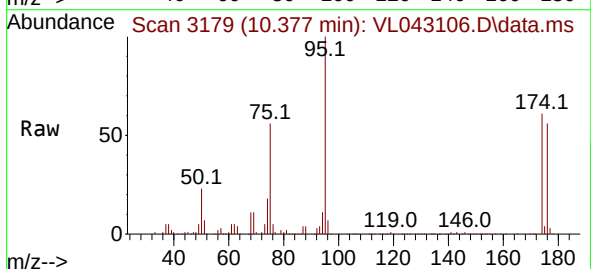
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

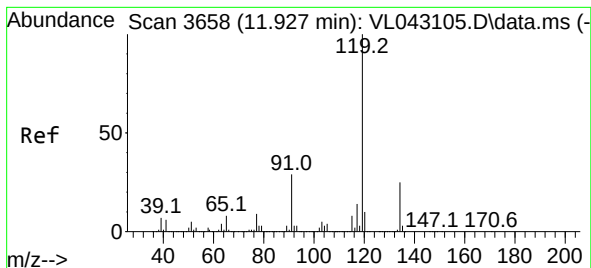
Tgt Ion:105 Resp: 210525
 Ion Ratio Lower Upper
 105 100
 134 18.9 15.5 23.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.024 ppbv
 RT: 10.377 min Scan# 3179
 Delta R.T. -0.003 min
 Lab File: VL043106.D
 Acq: 14 Oct 2025 11:27

Tgt Ion: 95 Resp: 244329
 Ion Ratio Lower Upper
 95 100
 174 59.2 48.3 72.5
 175 4.7 3.8 5.8





#69

p-Isopropyltoluene

Concen: 2.207 ppbv

RT: 11.928 min Scan# 3658

Delta R.T. 0.000 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

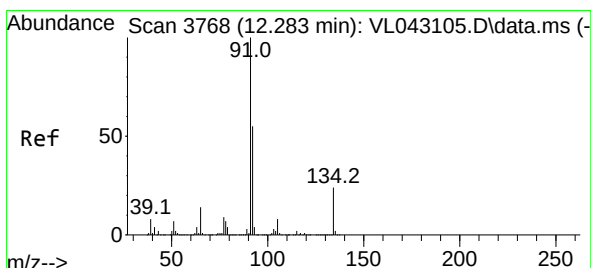
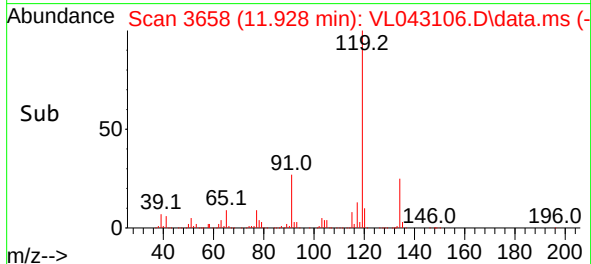
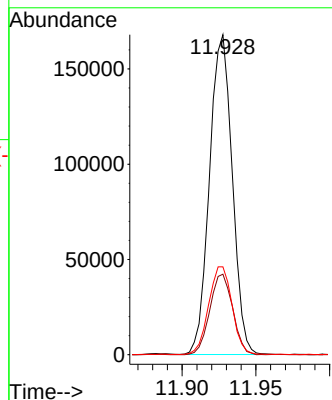
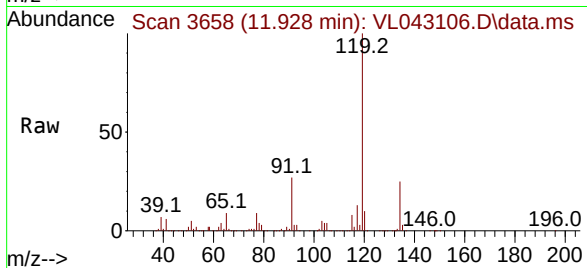
Tgt Ion:119 Resp: 180060

Ion Ratio Lower Upper

119 100

134 25.4 20.3 30.5

91 29.0 22.6 33.8



#70

n-Butylbenzene

Concen: 2.222 ppbv

RT: 12.284 min Scan# 3768

Delta R.T. 0.000 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

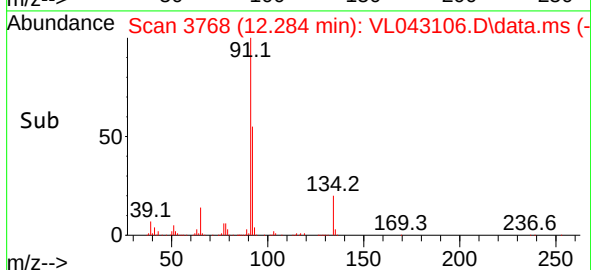
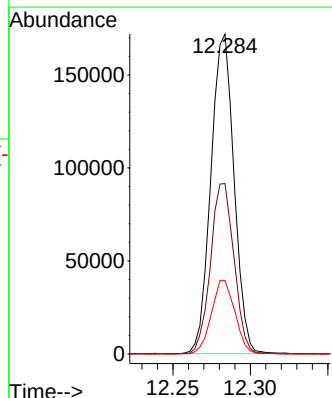
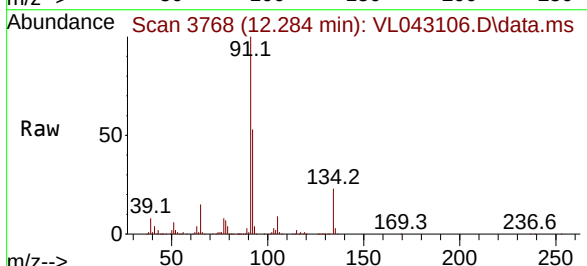
Tgt Ion: 91 Resp: 178676

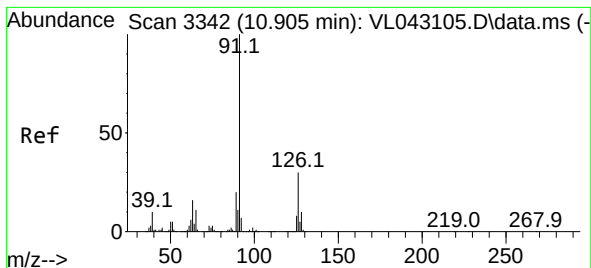
Ion Ratio Lower Upper

91 100

92 54.2 44.5 66.7

134 23.4 19.3 28.9

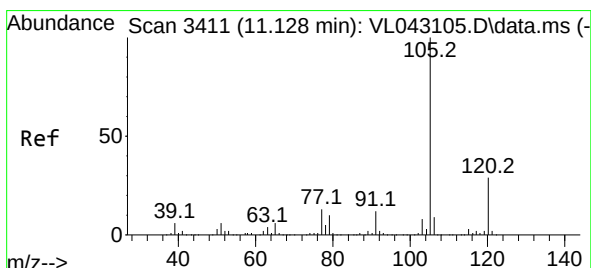
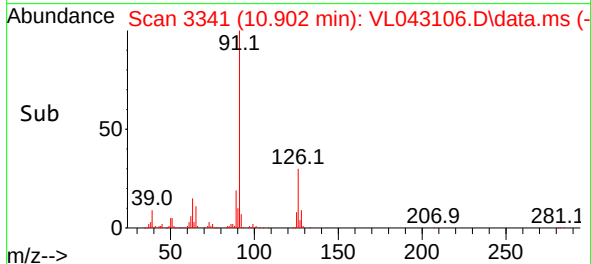
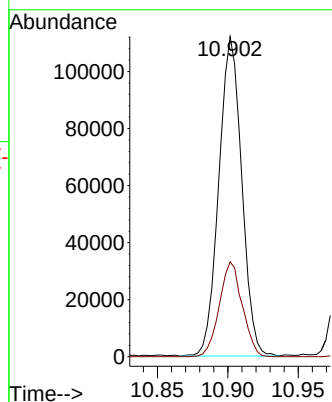
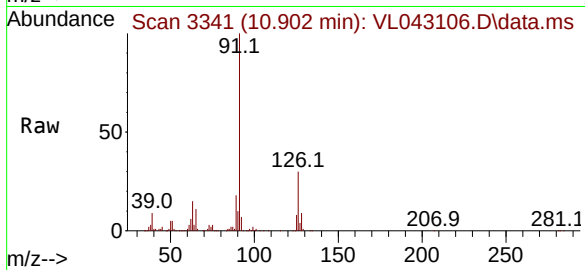




#71
2-Chlorotoluene
Concen: 2.166 ppbv
RT: 10.902 min Scan# 31
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

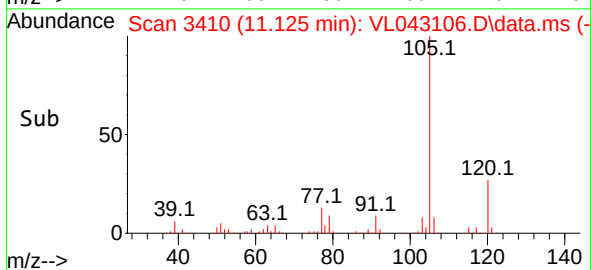
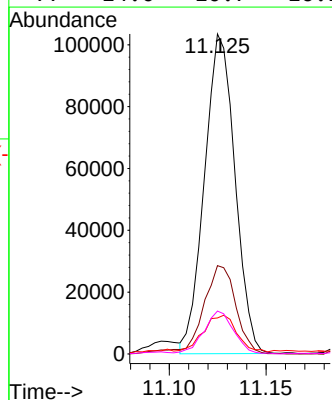
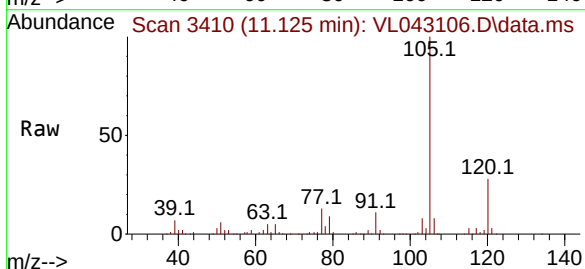
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

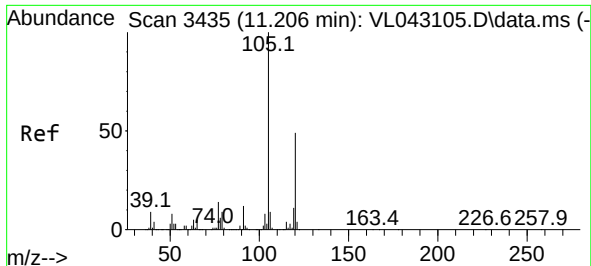
Tgt Ion: 91 Resp: 126551
Ion Ratio Lower Upper
91 100
126 29.7 12.0 48.0



#72
4-Ethyltoluene
Concen: 2.172 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion:105 Resp: 113233
Ion Ratio Lower Upper
105 100
120 29.8 24.2 36.4
91 14.8 10.0 15.0
77 14.0 10.7 16.1

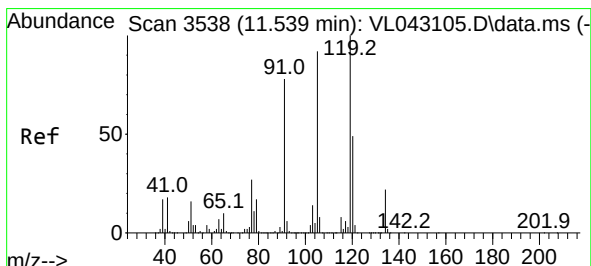
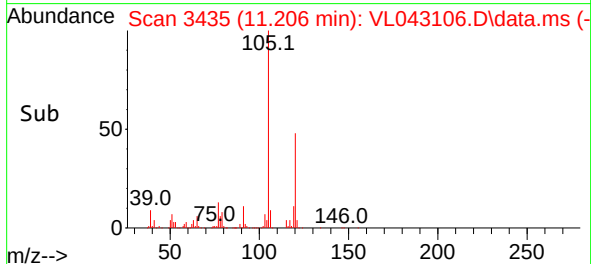
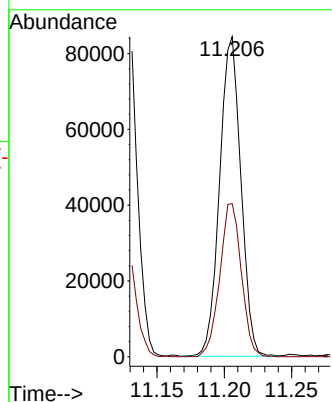
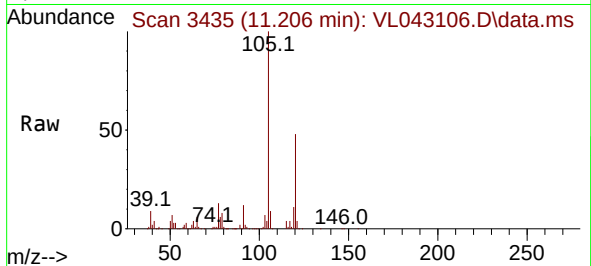




#73
1,3,5-Trimethylbenzene
Concen: 2.155 ppbv
RT: 11.206 min Scan# 3435
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

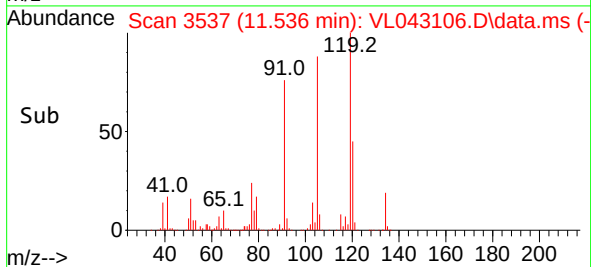
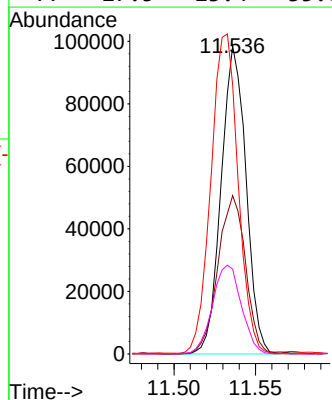
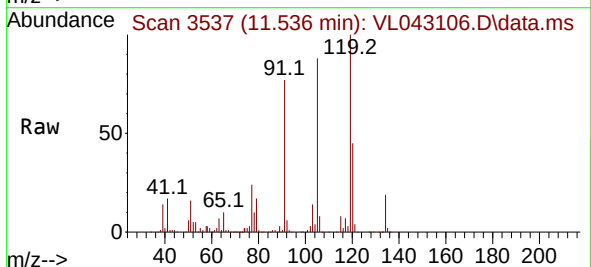
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

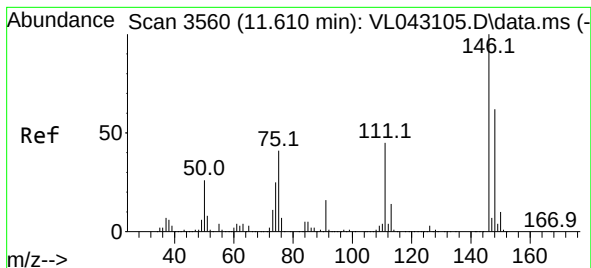
Tgt Ion:105 Resp: 92650
Ion Ratio Lower Upper
105 100
120 47.9 39.0 58.6



#74
1,2,4-Trimethylbenzene
Concen: 2.169 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion:105 Resp: 104352
Ion Ratio Lower Upper
105 100
120 51.4 42.8 64.2
91 87.0 68.3 102.5
77 27.5 23.4 35.0





#75

1,3-Dichlorobenzene

Concen: 2.247 ppbv

RT: 11.607 min Scan# 3559

Delta R.T. -0.003 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

Instrument :

MSVOA_1

ClientSampleId :

VSTDICC002

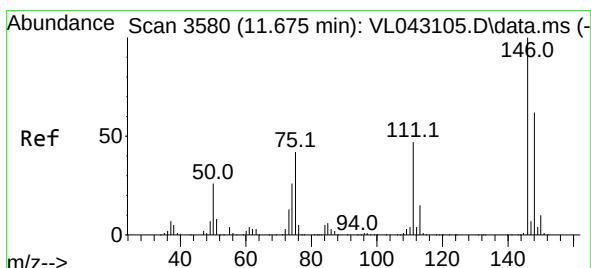
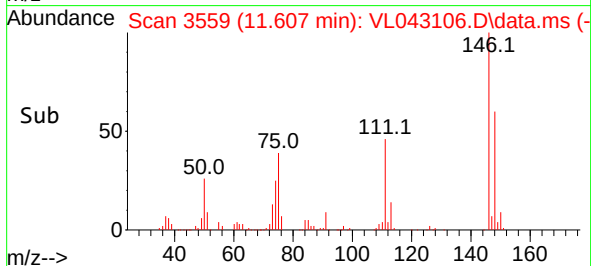
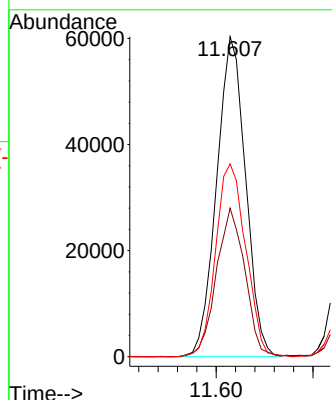
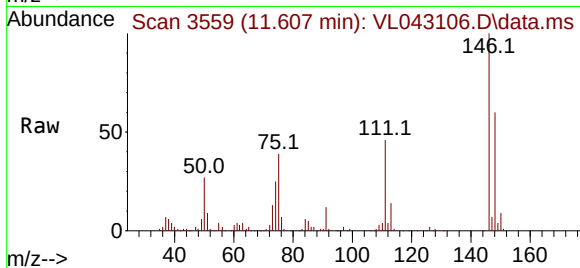
Tgt Ion:146 Resp: 62709

Ion Ratio Lower Upper

146 100

111 45.8 23.3 69.9

148 62.6 31.6 95.0



#76

1,4-Dichlorobenzene

Concen: 2.164 ppbv

RT: 11.672 min Scan# 3579

Delta R.T. -0.003 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

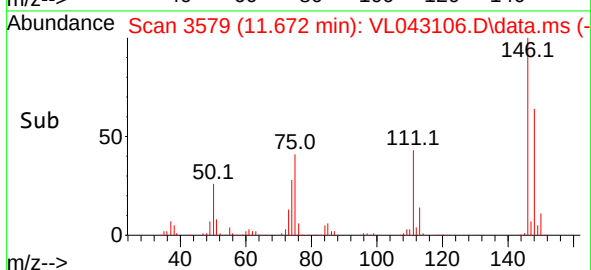
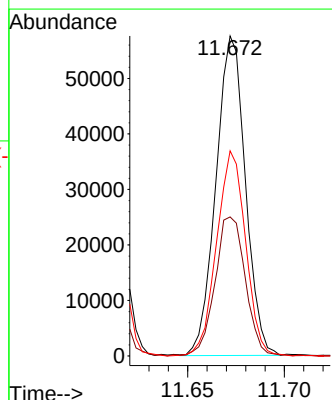
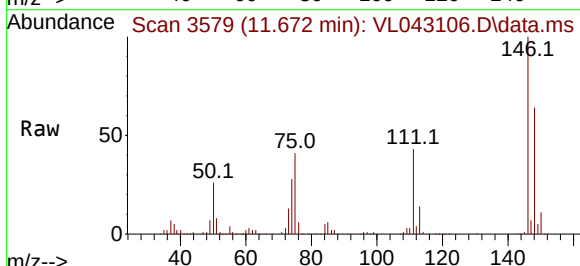
Tgt Ion:146 Resp: 60877

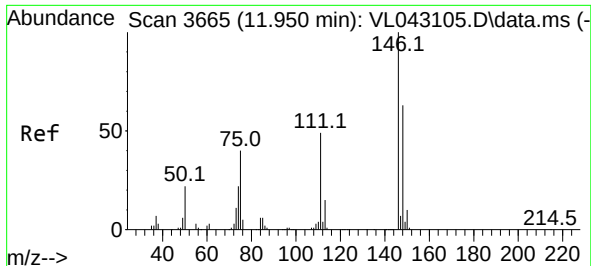
Ion Ratio Lower Upper

146 100

111 44.9 22.4 67.0

148 63.3 31.6 94.7

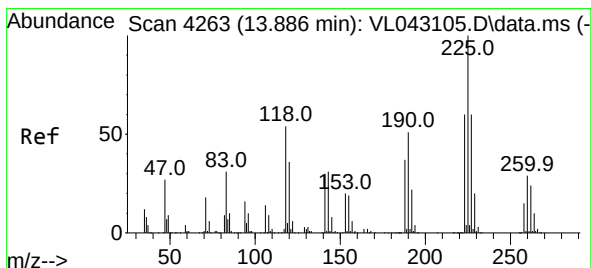
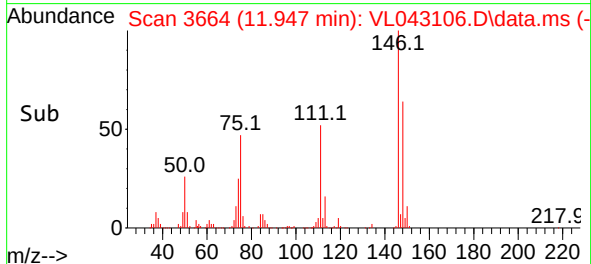
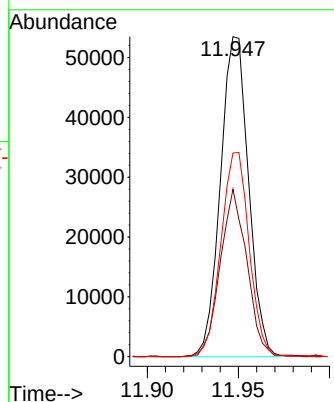
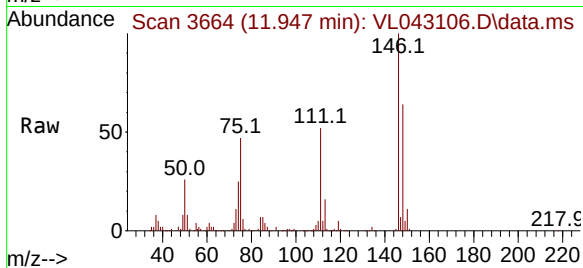




#77
1,2-Dichlorobenzene
Concen: 2.123 ppbv
RT: 11.947 min Scan# 3664
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

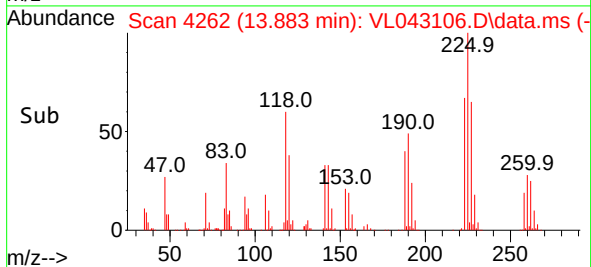
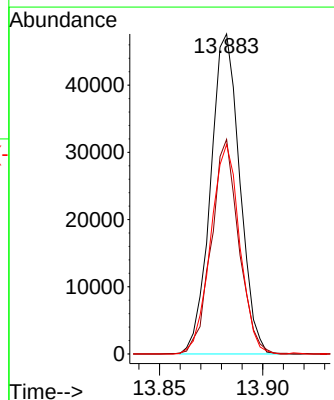
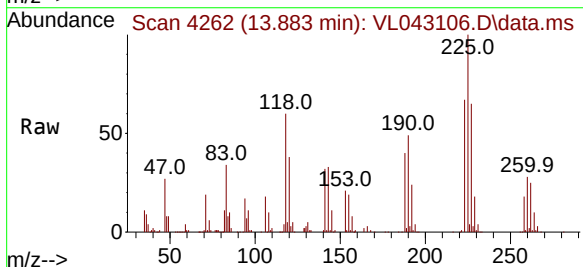
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

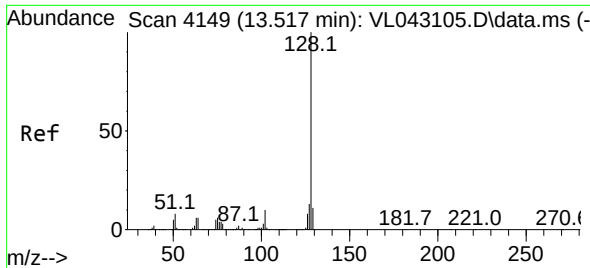
Tgt Ion:146 Resp: 57304
Ion Ratio Lower Upper
146 100
111 49.7 24.0 72.0
148 64.3 31.1 93.3



#78
Hexachloro-1,3-Butadiene
Concen: 2.239 ppbv
RT: 13.883 min Scan# 4262
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion:225 Resp: 46796
Ion Ratio Lower Upper
225 100
223 63.2 50.2 75.4
227 65.2 49.6 74.4

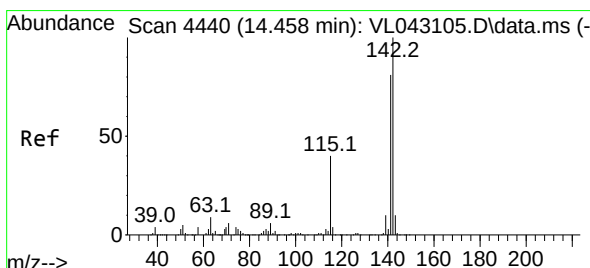
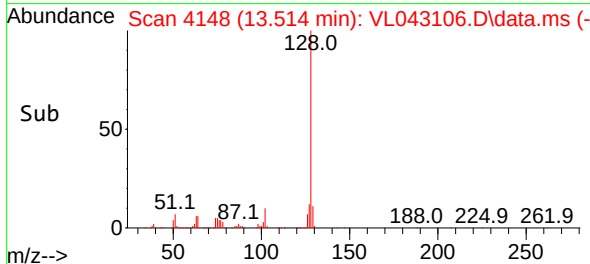
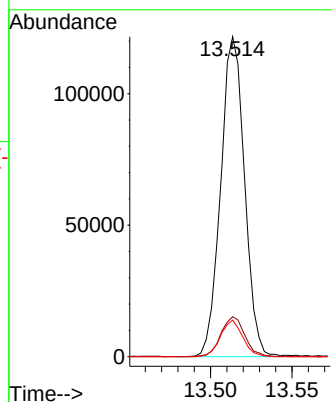
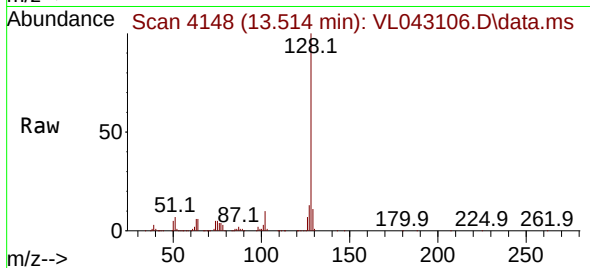




#79
Naphthalene
Concen: 2.488 ppbv
RT: 13.514 min Scan# 4149
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

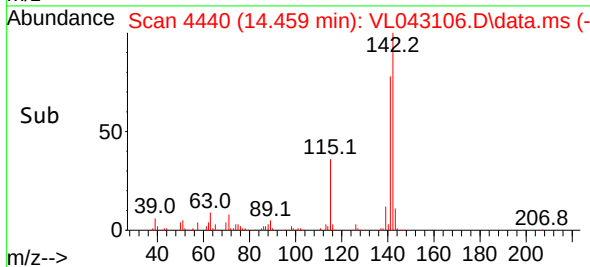
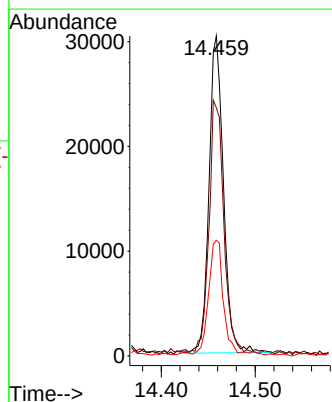
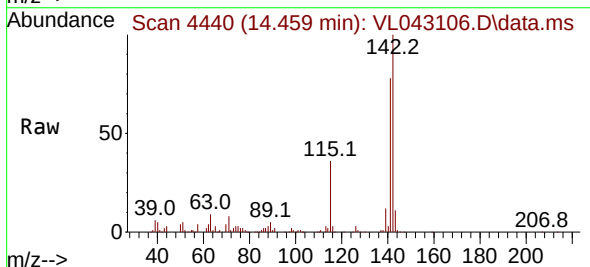
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

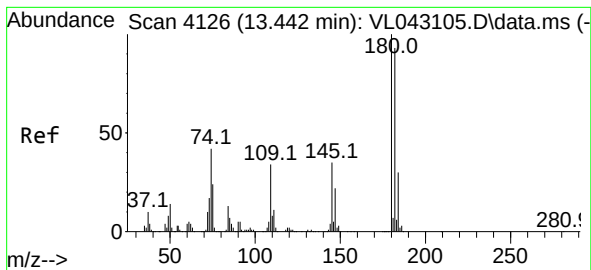
Tgt Ion:128 Resp: 123642
Ion Ratio Lower Upper
128 100
127 12.5 10.5 15.7
129 11.4 9.1 13.7



#80
Naphthalene,2-methyl-
Concen: 2.462 ppbv
RT: 14.459 min Scan# 4440
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion:142 Resp: 32308
Ion Ratio Lower Upper
142 100
141 82.6 64.6 97.0
115 39.7 30.2 45.4

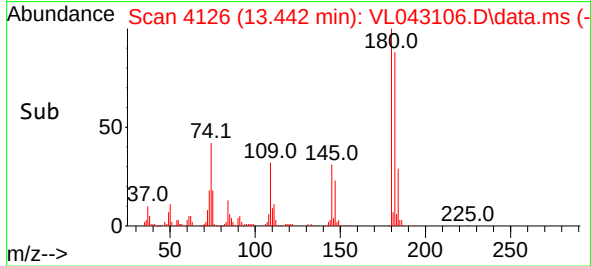
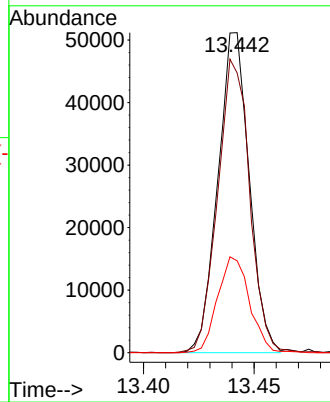
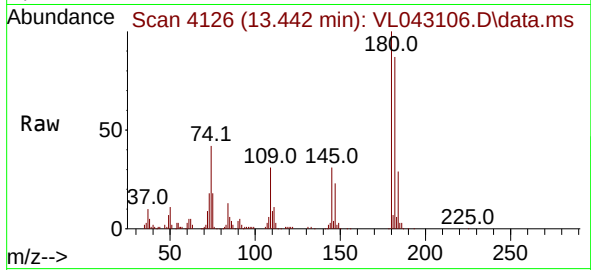




#81
 1,2,4-Trichlorobenzene
 Concen: 2.414 ppbv
 RT: 13.442 min Scan# 4126
 Delta R.T. 0.000 min
 Lab File: VL043106.D
 Acq: 14 Oct 2025 11:27

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tgt Ion:180 Resp: 50394
 Ion Ratio Lower Upper
 180 100
 182 93.9 75.5 113.3
 184 30.6 23.9 35.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
 Data File : VL043107.D
 Acq On : 14 Oct 2025 12:01
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Quant Time: Oct 15 01:52:45 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

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

QLast Update : Wed Oct 15 01:49:43 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	102307	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	336268	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	305409	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 235307 9.912 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 99.100%

Target Compounds

					Qvalue	
2) Dichlorodifluoromethane	1.499	85	15620	1.074	ppbv	99
3) Chlorodifluoromethane	1.476	51	16692	1.061	ppbv #	91
4) Chloromethane	1.534	50	6353	1.103	ppbv	93
5) Vinyl Chloride	1.580	62	5694	1.008	ppbv	96
6) Bromomethane	1.667	94	3462	1.117	ppbv	98
7) Chloroethane	1.706	64	2615	1.132	ppbv #	82
8) Dichlorotetrafluoroethane	1.554	85	12940	1.101	ppbv	98
9) Propene	1.483	41	7291	1.045	ppbv	100
10) Heptane	4.978	43	22011	1.100	ppbv	99
11) Trichlorofluoromethane	1.877	101	14927	1.049	ppbv	85
12) 1,1,2-Trichlorotrifluo...	2.140	101	12484	1.090	ppbv	99
13) Ethanol	1.722	45	3143	1.217	ppbv	83
14) Bromoethene	1.780	108	4440	1.043	ppbv #	90
15) Acetone	1.835	43	15572	1.123	ppbv	90
16) 1,3-Butadiene	1.609	39	7157	1.089	ppbv	97
17) tert-Butyl alcohol	2.043	59	20941	1.106	ppbv #	90
18) 1,1-Dichloroethene	2.036	96	5510	1.103	ppbv	88
19) Isopropyl Alcohol	1.887	45	9796	1.141	ppbv #	85
20) Methylene Chloride	2.062	84	6261	1.149	ppbv	96
21) Allyl Chloride	2.094	41	10737	1.055	ppbv #	82
22) trans-1,2-Dichloroethene	2.340	96	7119	1.193	ppbv	92
23) Vinyl Acetate	2.463	43	19477	0.964	ppbv	99
24) 1,1-Dichloroethane	2.405	63	12656	1.097	ppbv #	94
25) Ethyl Acetate	2.832	43	37093	1.085	ppbv	98
26) Hexane	2.826	57	17152	1.089	ppbv	98
27) Carbon Disulfide	2.149	76	15760	1.092	ppbv #	60
28) Methyl tert-Butyl Ether	2.441	73	7847	1.095	ppbv #	87
29) Chloroform	2.845	83	24527	1.074	ppbv	90
30) Cyclohexane	3.855	84	14819	1.078	ppbv	97
31) cis-1,2-Dichloroethene	2.719	61	16311	1.084	ppbv	93
32) 1,1,1-Trichloroethane	3.366	97	24948	1.049	ppbv	98
34) 2-Butanone	2.557	43	23811	1.047	ppbv	100
35) Carbon Tetrachloride	3.761	117	24969	1.033	ppbv	93
36) Benzene	3.651	78	32940	1.040	ppbv	99
37) 1,2-Dichloroethane	3.217	62	19213	1.053	ppbv	100
38) Trichloroethene	4.544	130	13512	1.023	ppbv	96
39) 1,2-Dichloropropane	4.311	63	12435	1.073	ppbv	92
40) 1,4-Dioxane	4.593	88	3225	0.622	ppbv #	21
41) Tetrahydrofuran	3.056	42	13251	1.044	ppbv	99
42) Bromodichloromethane	4.486	83	26069	1.032	ppbv #	94
43) Methyl Methacrylate	4.878	69	17195	1.064	ppbv	97
44) 2,2,4-Trimethylpentane	4.638	57	57382	1.084	ppbv	96
45) t-1,3-Dichloropropene	6.415	75	7304	0.452	ppbv	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
 Data File : VL043107.D
 Acq On : 14 Oct 2025 12:01
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

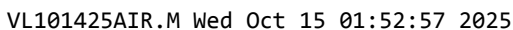
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

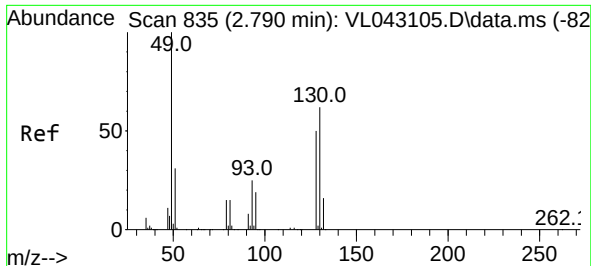
Quant Time: Oct 15 01:52:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 01:49:43 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.596	75	19830	1.029	ppbv	94
47) 1,1,2-Trichloroethane	6.577	97	12876	1.030	ppbv	98
48) Dibromochloromethane	7.383	129	21874	1.046	ppbv	97
49) Bromoform	9.480	173	17320	1.019	ppbv	96
50) 4-Methyl-2-Pentanone	5.745	43	11642	0.371	ppbv #	38
51) 2-Hexanone	7.441	43	23817	1.018	ppbv #	95
52) Tetrachloroethene	8.224	164	12319	1.079	ppbv	91
53) Toluene	6.930	91	39079	1.040	ppbv	98
54) 1,2-Dibromoethane	7.652	107	19711	0.999	ppbv	88
56) 1,1,1,2-Tetrachloroethane	8.920	131	20279	1.053	ppbv	96
57) Chlorobenzene	8.920	112	30824	1.079	ppbv	97
58) Ethyl Benzene	9.351	91	55420	1.049	ppbv	96
59) m/p-Xylene	9.532	91	45483	1.087	ppbv #	29
60) o-Xylene	9.963	91	44925	1.088	ppbv	100
61) Styrene	9.869	104	19809	1.063	ppbv	98
62) Isopropylbenzene	10.535	105	81579	1.093	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.959	83	28230	1.021	ppbv	100
64) n-propylbenzene	10.985	120	21685	1.098	ppbv	98
65) tert-Butylbenzene	11.529	119	72781	1.105	ppbv	99
66) Benzyl Chloride	11.613	91	7918	1.076	ppbv	97
67) sec-Butylbenzene	11.765	105	103152	1.103	ppbv	100
69) p-Isopropyltoluene	11.924	119	88443	1.113	ppbv	99
70) n-Butylbenzene	12.280	91	86120	1.100	ppbv	98
71) 2-Chlorotoluene	10.898	91	60994	1.072	ppbv	99
72) 4-Ethyltoluene	11.121	105	53788	1.059	ppbv	98
73) 1,3,5-Trimethylbenzene	11.202	105	44786	1.070	ppbv	98
74) 1,2,4-Trimethylbenzene	11.532	105	52118	1.112	ppbv	95
75) 1,3-Dichlorobenzene	11.604	146	29186	1.074	ppbv	99
76) 1,4-Dichlorobenzene	11.668	146	29225	1.066	ppbv	98
77) 1,2-Dichlorobenzene	11.947	146	29146	1.109	ppbv	98
78) Hexachloro-1,3-Butadiene	13.879	225	23330	1.146	ppbv	99
79) Naphthalene	13.510	128	53930	1.114	ppbv	98
80) Naphthalene,2-methyl-	14.458	142	10851	0.849	ppbv	94
81) 1,2,4-Trichlorobenzene	13.439	180	22161	1.090	ppbv	98

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

Quant Time: Oct 15 01:52:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 01:49:43 2025
Response via : Initial Calibration

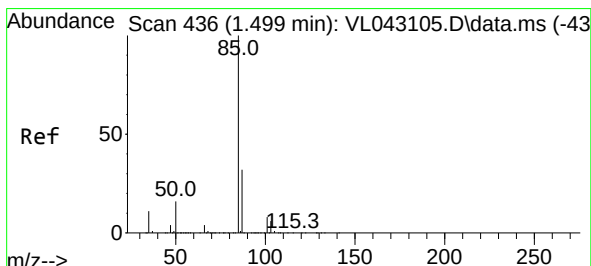
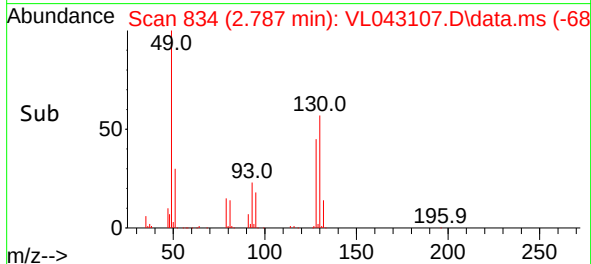
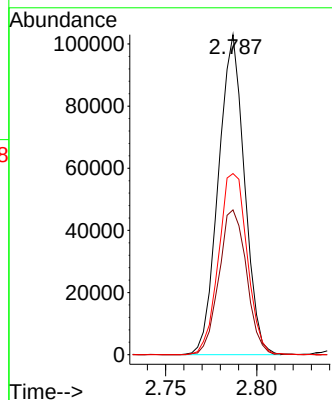
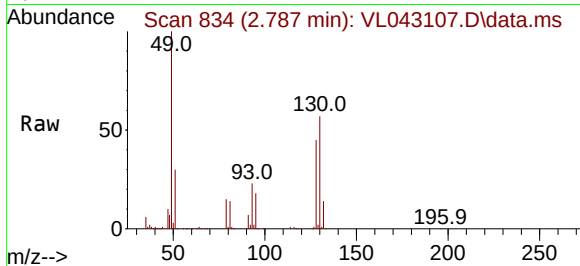




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

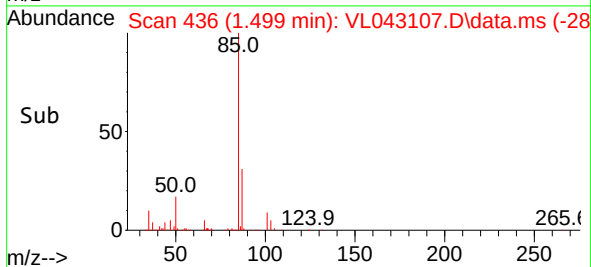
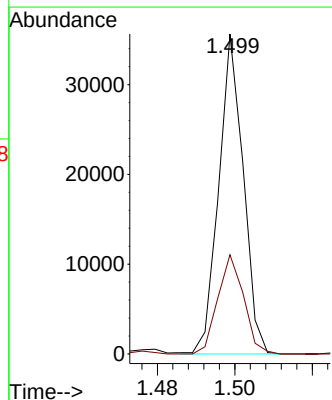
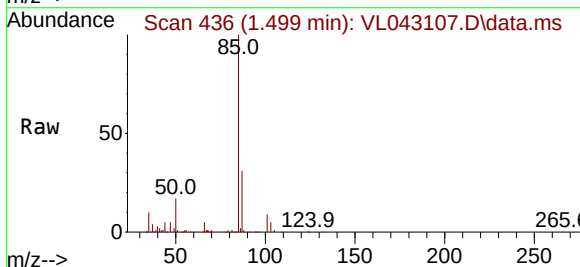
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

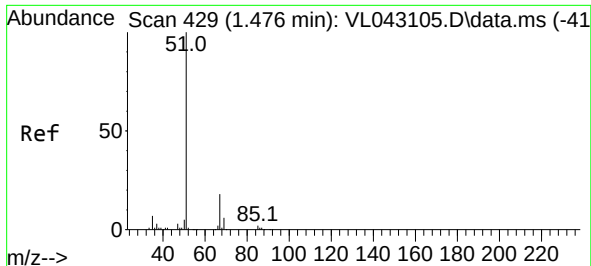
Tgt Ion: 49 Resp: 102307
Ion Ratio Lower Upper
49 100
128 48.0 24.4 73.4
130 62.0 31.0 93.0



#2
Dichlorodifluoromethane
Concen: 1.074 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 85 Resp: 15620
Ion Ratio Lower Upper
85 100
87 31.0 25.3 37.9

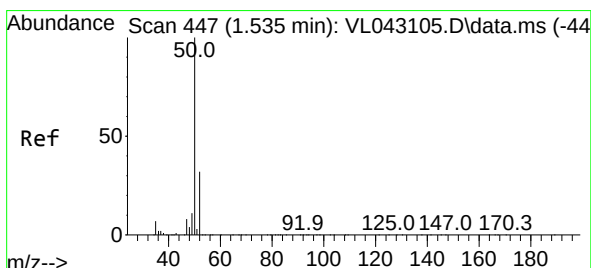
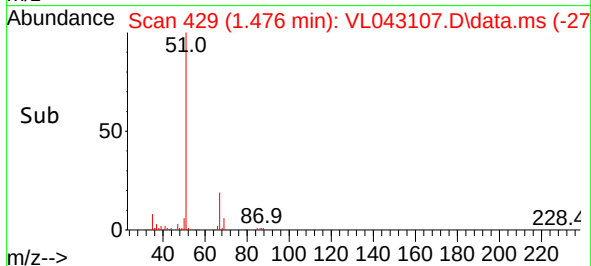
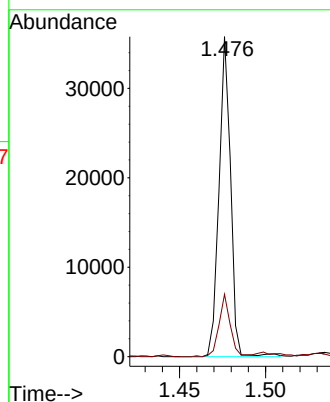
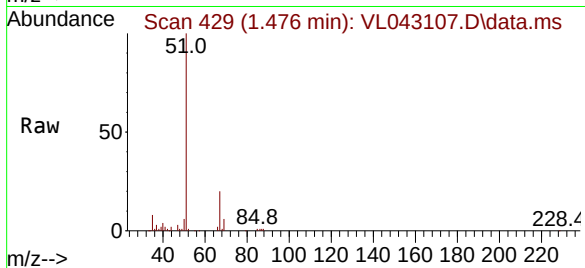




#3
Chlorodifluoromethane
Concen: 1.061 ppbv
RT: 1.476 min Scan# 429
Delta R.T. -0.000 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

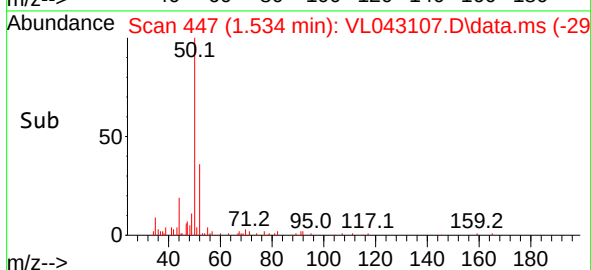
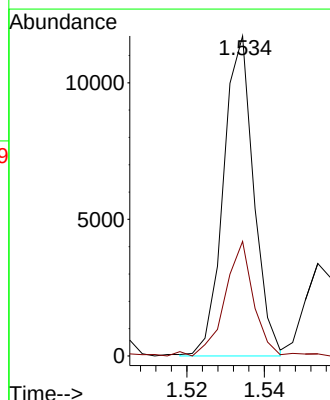
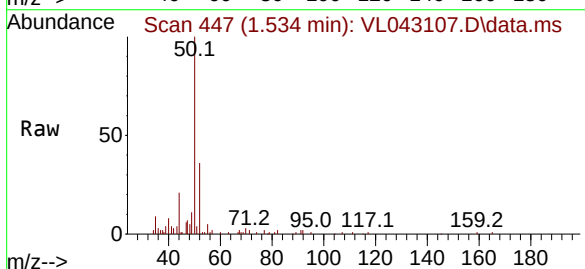
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

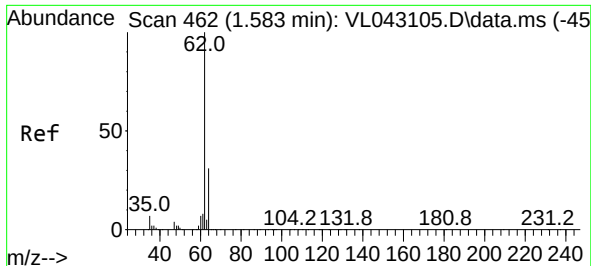
Tgt Ion: 51 Resp: 16692
Ion Ratio Lower Upper
51 100
67 22.8 15.1 22.7#



#4
Chloromethane
Concen: 1.103 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.000 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 50 Resp: 6353
Ion Ratio Lower Upper
50 100
52 35.6 25.2 37.8

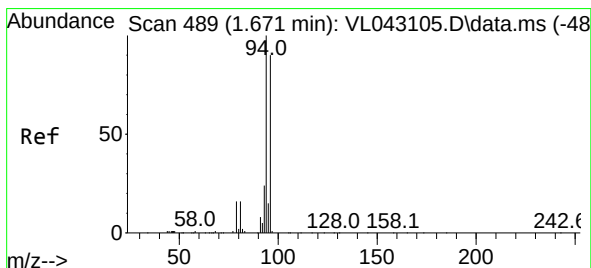
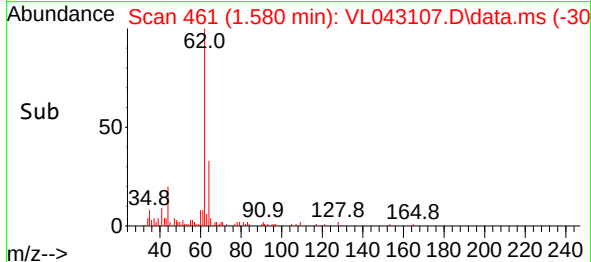
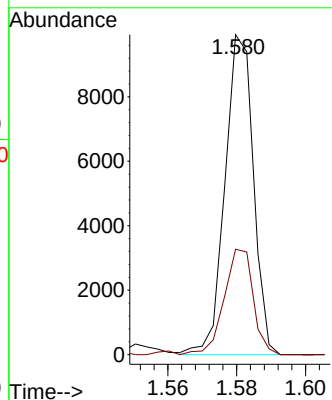
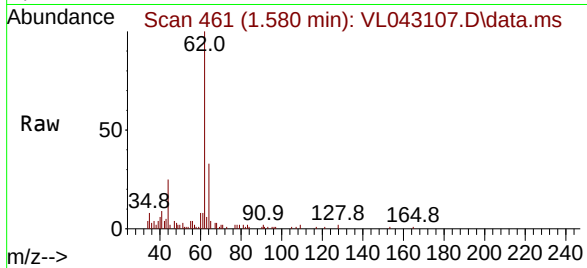




#5
 Vinyl Chloride
 Concen: 1.008 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. -0.003 min
 Lab File: VL043107.D
 Acq: 14 Oct 2025 12:01

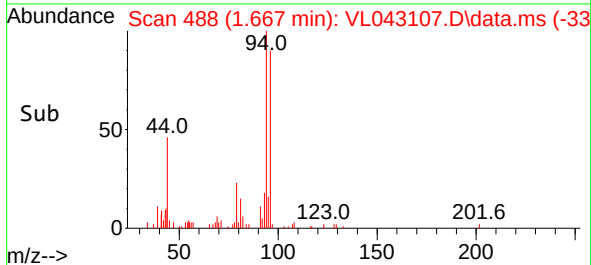
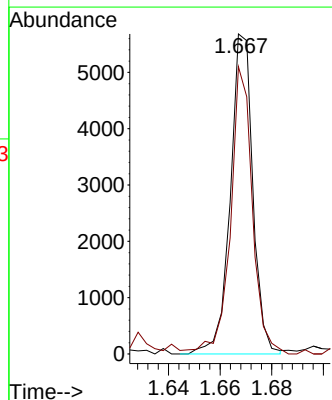
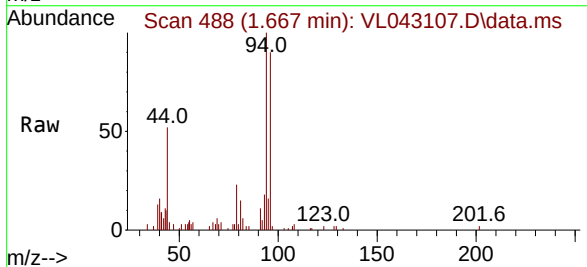
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

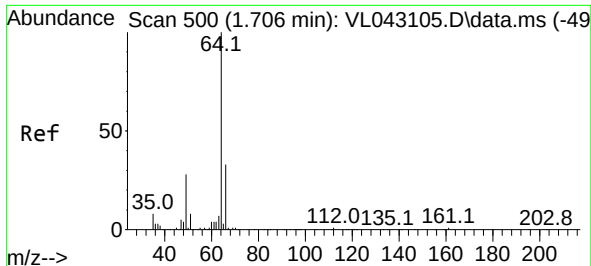
Tgt Ion: 62 Resp: 5694
 Ion Ratio Lower Upper
 62 100
 64 32.9 24.6 36.8



#6
 Bromomethane
 Concen: 1.117 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. -0.003 min
 Lab File: VL043107.D
 Acq: 14 Oct 2025 12:01

Tgt Ion: 94 Resp: 3462
 Ion Ratio Lower Upper
 94 100
 96 88.6 72.2 108.4

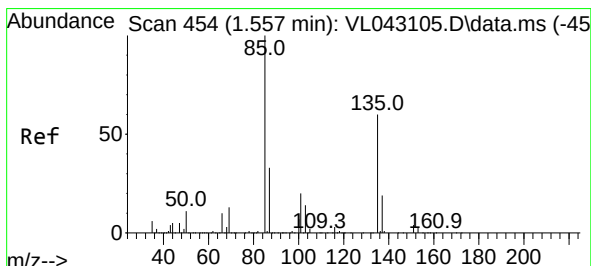
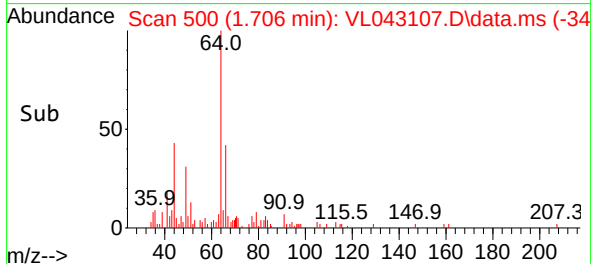
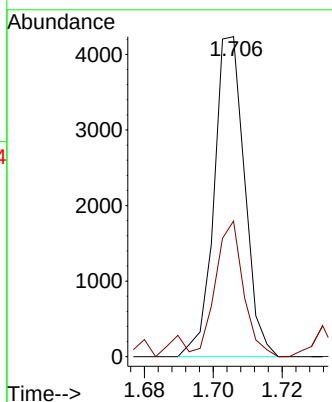
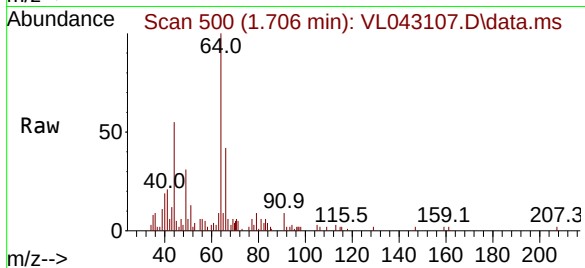




#7
Chloroethane
Concen: 1.132 ppbv
RT: 1.706 min Scan# 500
Delta R.T. -0.000 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

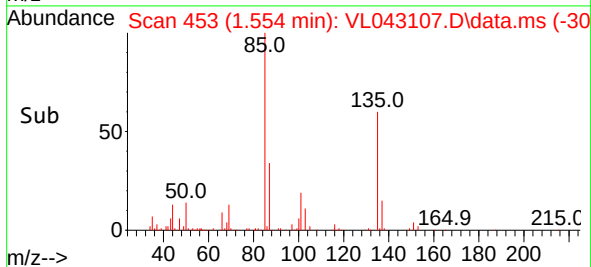
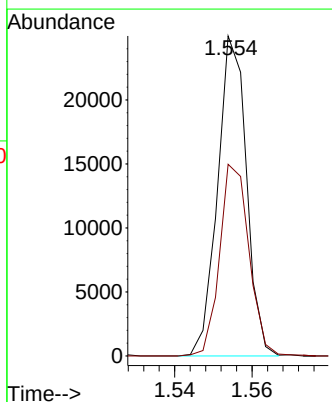
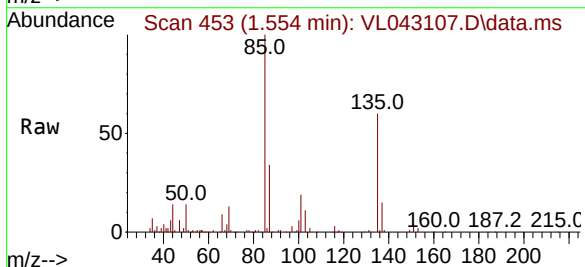
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

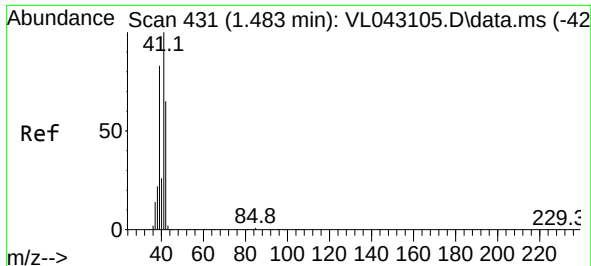
Tgt Ion: 64 Resp: 2615
Ion Ratio Lower Upper
64 100
66 42.4 26.0 39.0#



#8
Dichlorotetrafluoroethane
Concen: 1.101 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 85 Resp: 12940
Ion Ratio Lower Upper
85 100
135 61.5 48.2 72.4





#9

Propene

Concen: 1.045 ppbv

RT: 1.483 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

Instrument :

MSVOA_L

ClientSampleId :

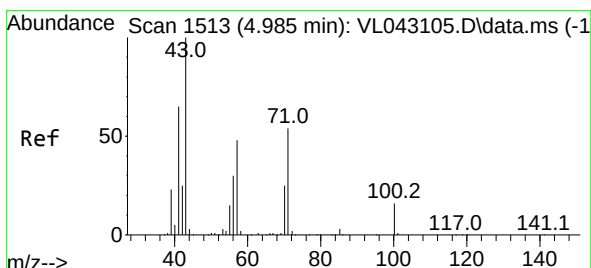
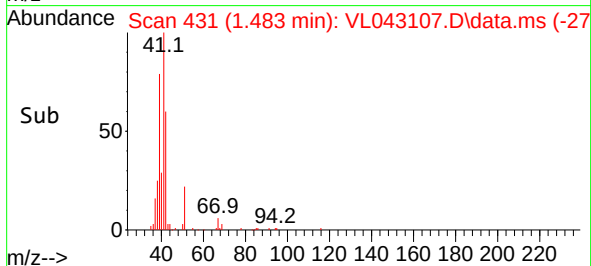
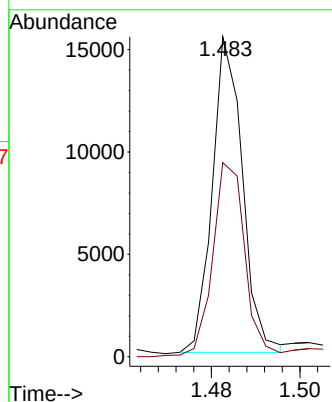
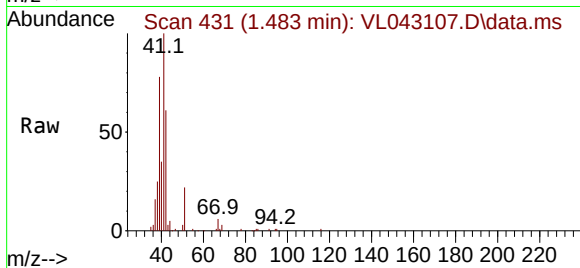
VSTDIC001

Tgt Ion: 41 Resp: 7291

Ion Ratio Lower Upper

41 100

42 68.5 55.1 82.7



#10

Heptane

Concen: 1.100 ppbv

RT: 4.978 min Scan# 1511

Delta R.T. -0.007 min

Lab File: VL043107.D

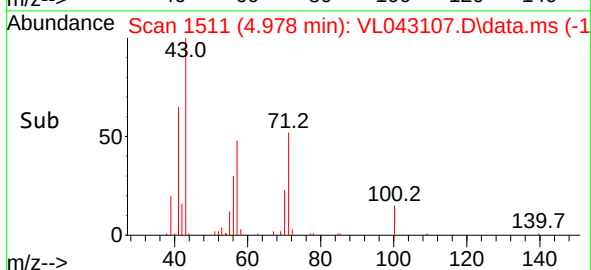
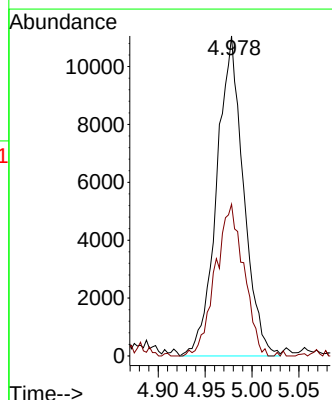
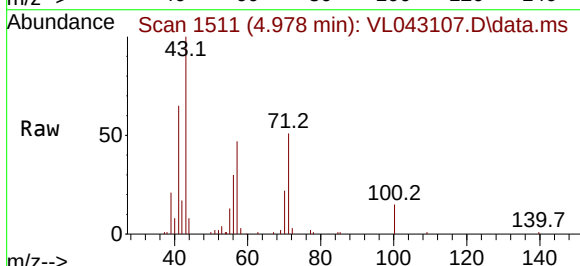
Acq: 14 Oct 2025 12:01

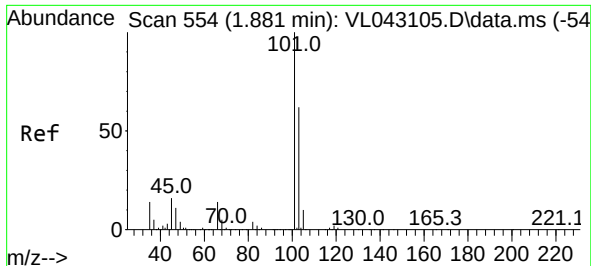
Tgt Ion: 43 Resp: 22011

Ion Ratio Lower Upper

43 100

57 50.4 40.8 61.2

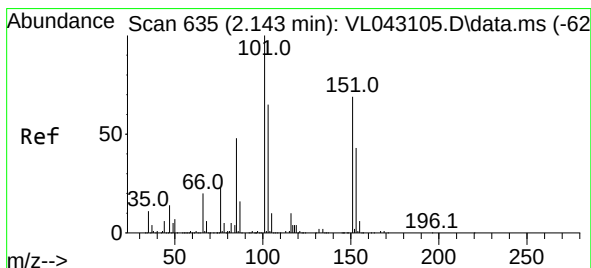
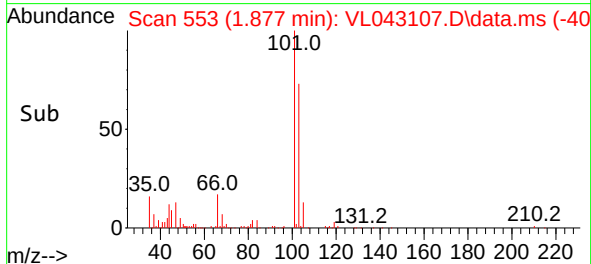
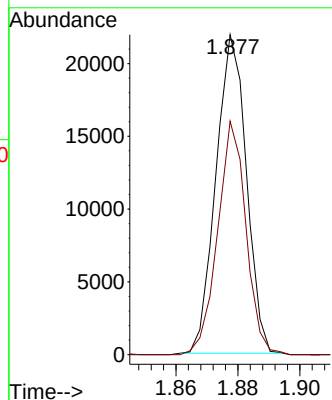
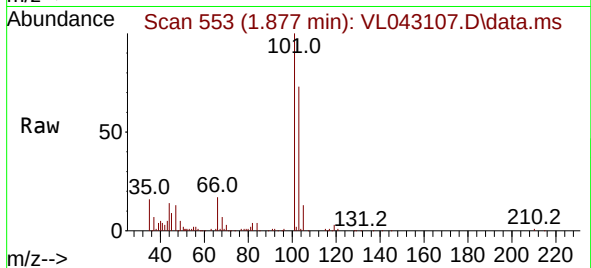




#11
 Trichlorofluoromethane
 Concen: 1.049 ppbv
 RT: 1.877 min Scan# 51
 Delta R.T. -0.003 min
 Lab File: VL043107.D
 Acq: 14 Oct 2025 12:01

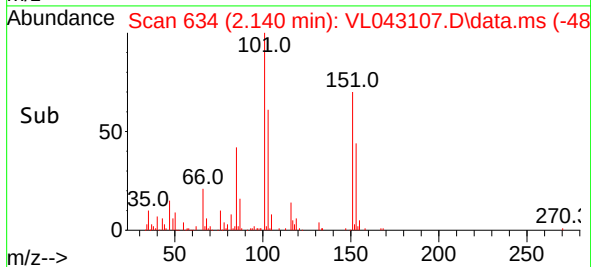
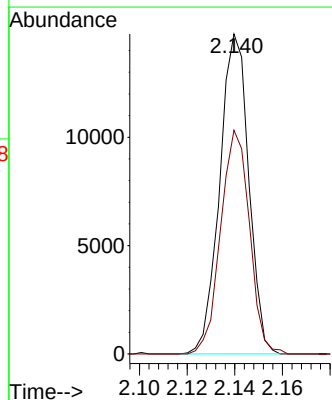
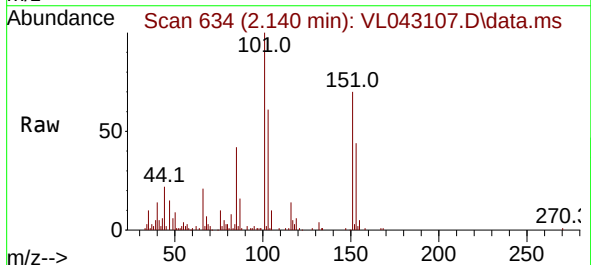
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

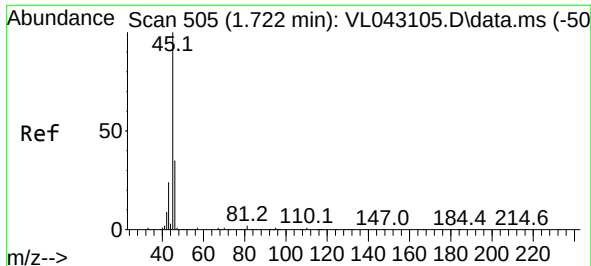
Tgt Ion:101 Resp: 14927
 Ion Ratio Lower Upper
 101 100
 103 73.3 49.3 73.9



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 1.090 ppbv
 RT: 2.140 min Scan# 634
 Delta R.T. -0.003 min
 Lab File: VL043107.D
 Acq: 14 Oct 2025 12:01

Tgt Ion:101 Resp: 12484
 Ion Ratio Lower Upper
 101 100
 151 69.5 54.7 82.1

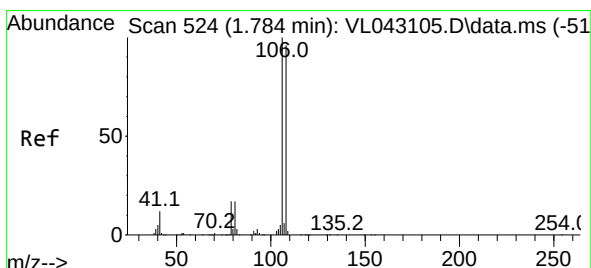
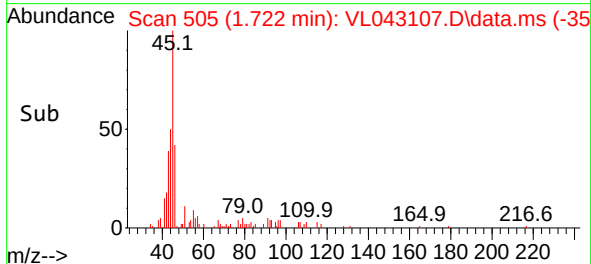
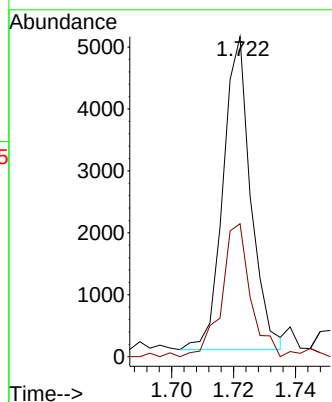
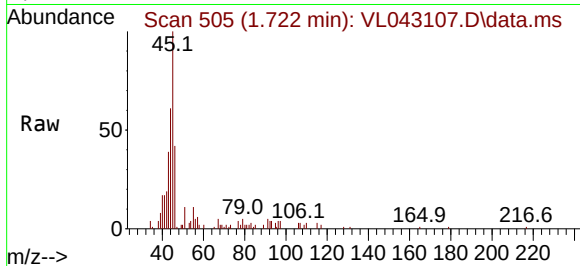




#13
Ethanol
Concen: 1.217 ppbv
RT: 1.722 min Scan# 505
Delta R.T. -0.000 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

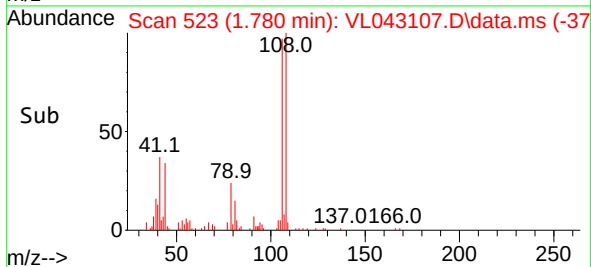
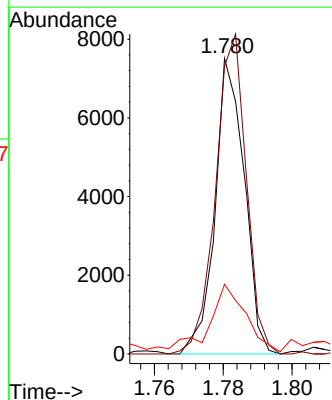
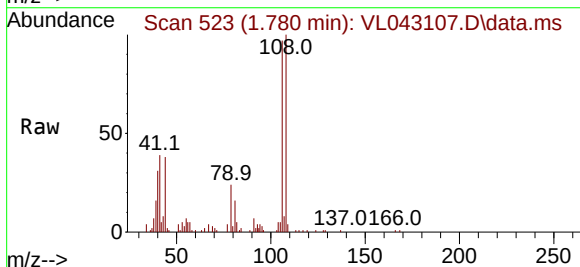
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

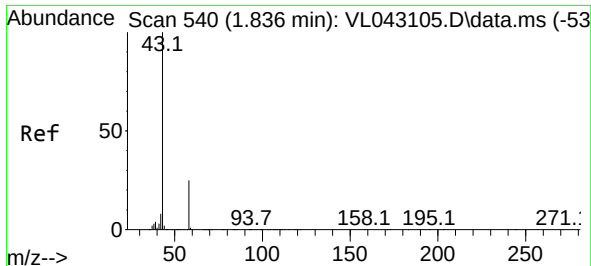
Tgt Ion: 45 Resp: 3143
Ion Ratio Lower Upper
45 100
46 46.7 14.7 58.9



#14
Bromoethene
Concen: 1.043 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 108 Resp: 4440
Ion Ratio Lower Upper
108 100
106 113.7 84.4 126.6
79 28.9 15.3 22.9

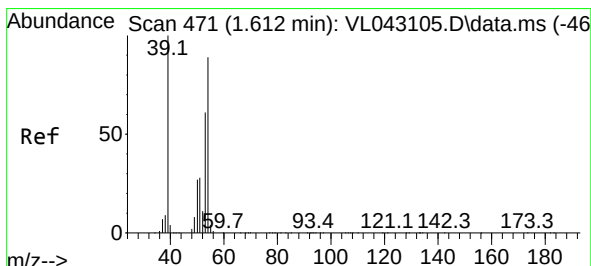
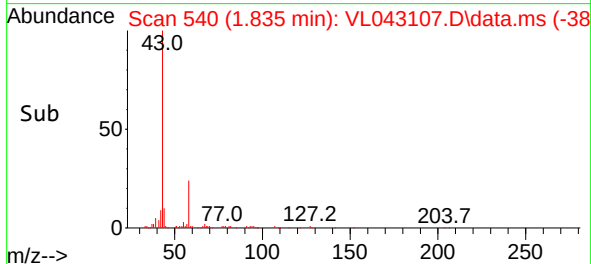
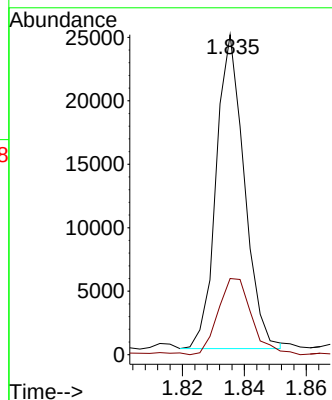
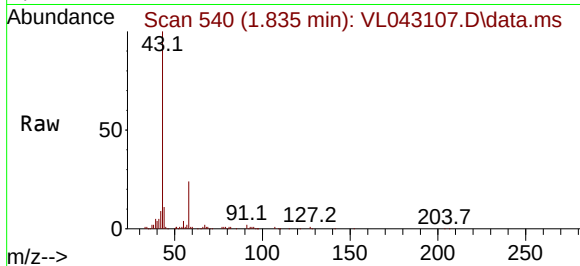




#15
Acetone
Concen: 1.123 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

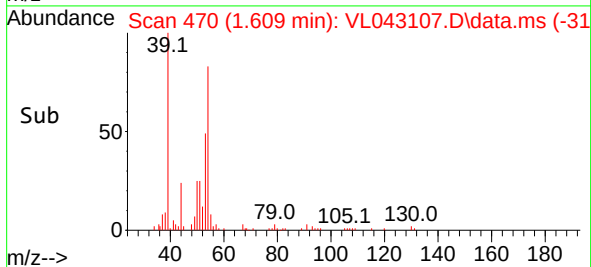
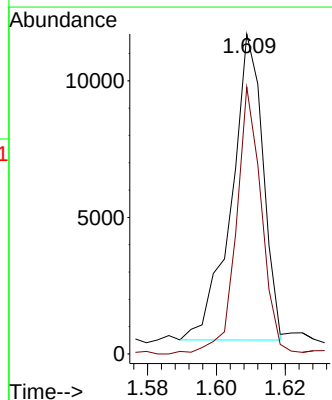
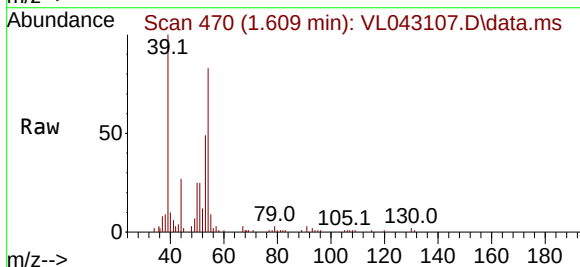
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

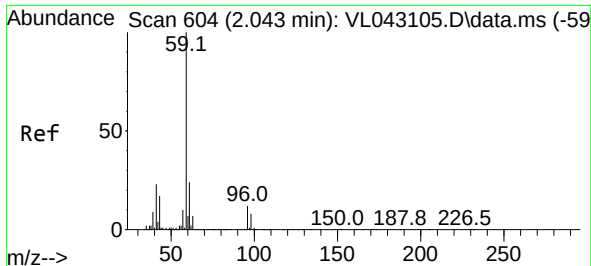
Tgt Ion: 43 Resp: 15572
Ion Ratio Lower Upper
43 100
58 31.0 20.8 31.2



#16
1,3-Butadiene
Concen: 1.089 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 39 Resp: 7157
Ion Ratio Lower Upper
39 100
54 70.8 59.0 88.4





#17

tert-Butyl alcohol

Concen: 1.106 ppbv

RT: 2.043 min Scan# 604

Delta R.T. -0.000 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

Instrument :

MSVOA_L

ClientSampleId :

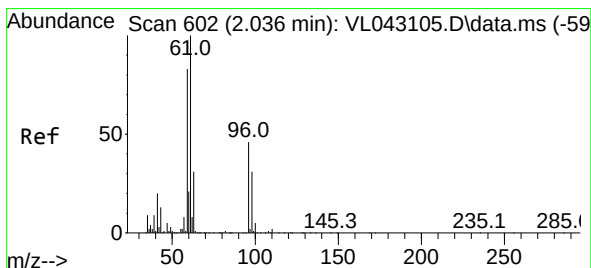
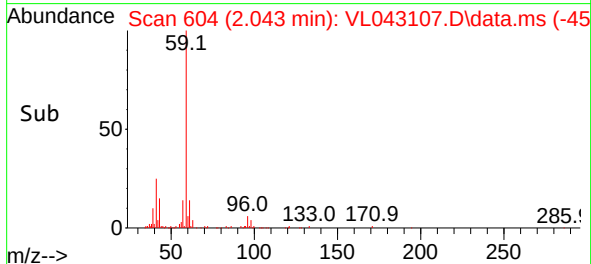
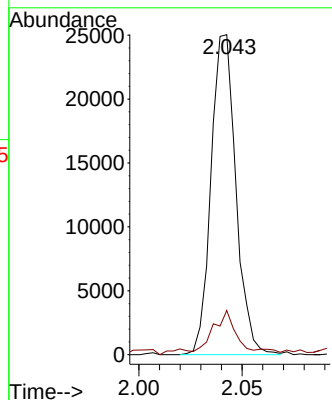
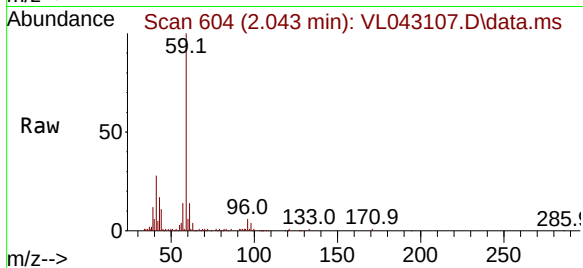
VSTDIC001

Tgt Ion: 59 Resp: 20941

Ion Ratio Lower Upper

59 100

57 14.0 8.2 12.4#



#18

1,1-Dichloroethene

Concen: 1.103 ppbv

RT: 2.036 min Scan# 602

Delta R.T. -0.000 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

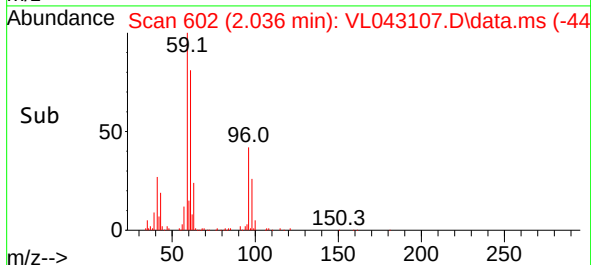
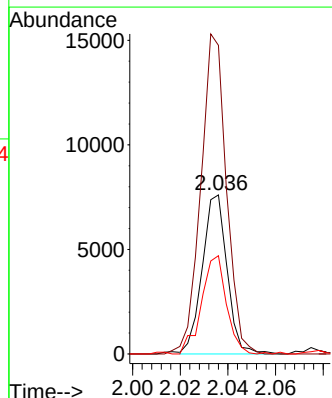
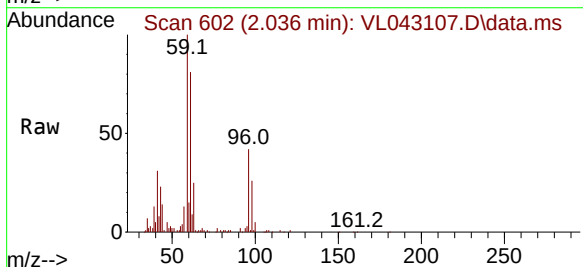
Tgt Ion: 96 Resp: 5510

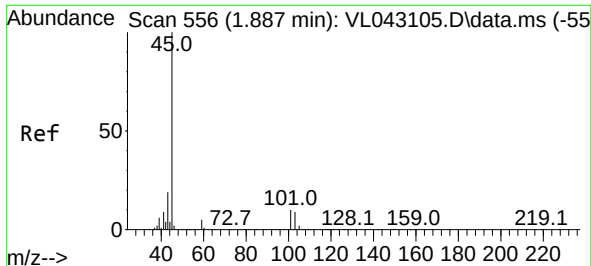
Ion Ratio Lower Upper

96 100

61 194.0 173.4 260.0

98 61.7 53.2 79.8

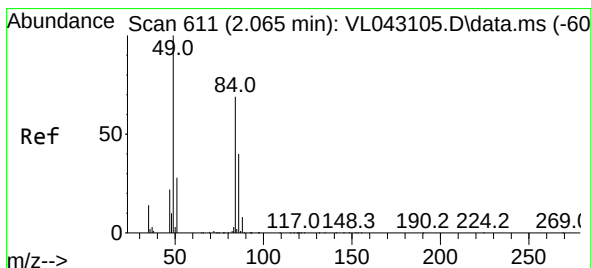
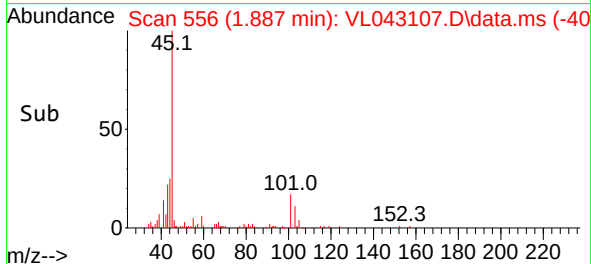
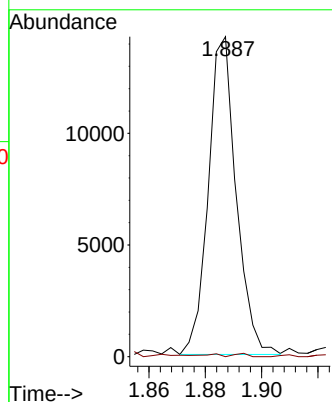
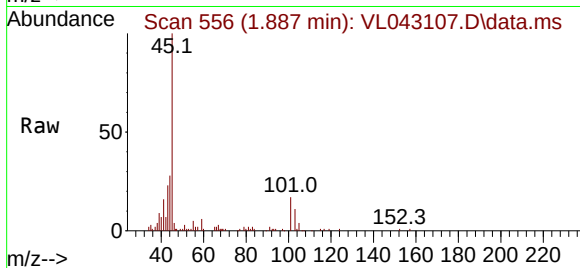




#19
Isopropyl Alcohol
Concen: 1.141 ppbv
RT: 1.887 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

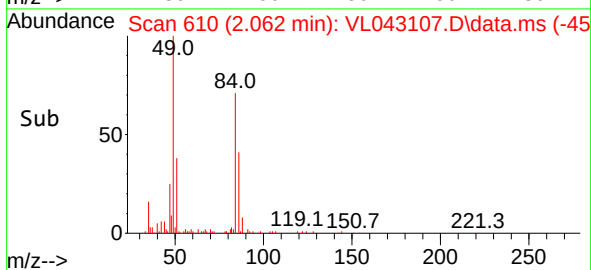
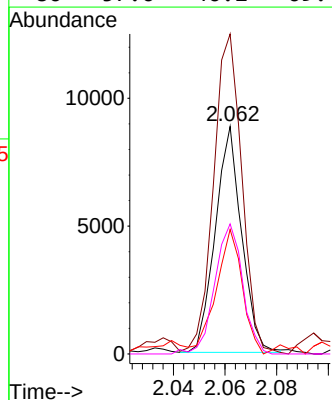
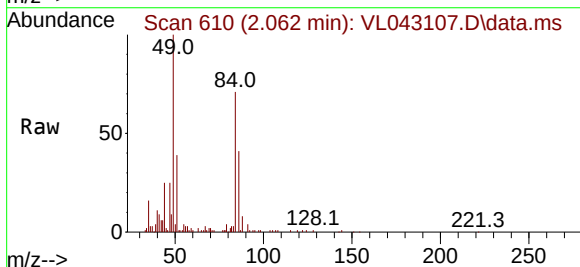
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

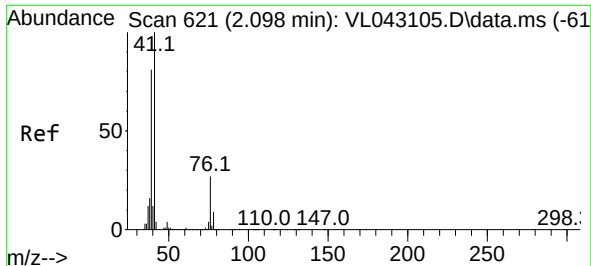
Tgt Ion: 45 Resp: 9796
Ion Ratio Lower Upper
45 100
58 48.1 31.3 46.9#



#20
Methylene Chloride
Concen: 1.149 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 84 Resp: 6261
Ion Ratio Lower Upper
84 100
49 140.9 116.6 175.0
51 51.2 34.8 52.2
86 57.6 46.2 69.4

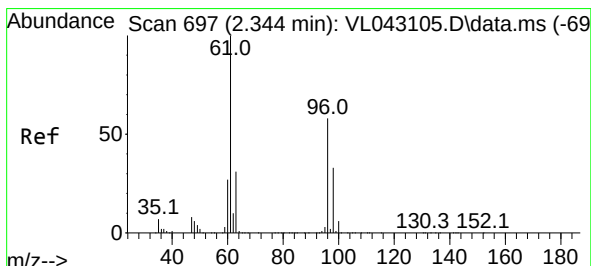
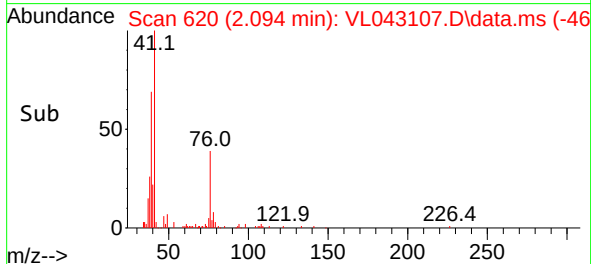
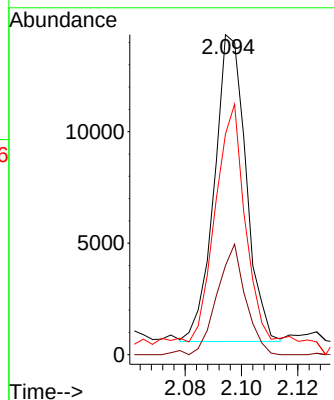
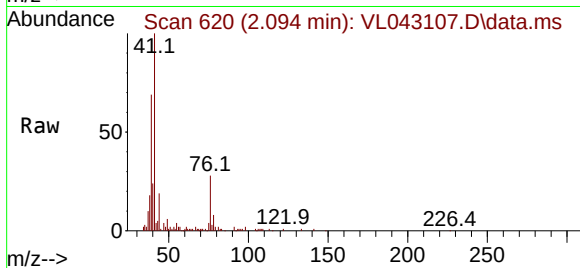




#21
 Allyl Chloride
 Concen: 1.055 ppbv
 RT: 2.094 min Scan# 61
 Delta R.T. -0.003 min
 Lab File: VL043107.D
 Acq: 14 Oct 2025 12:01

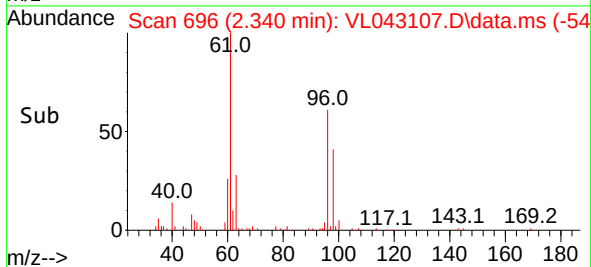
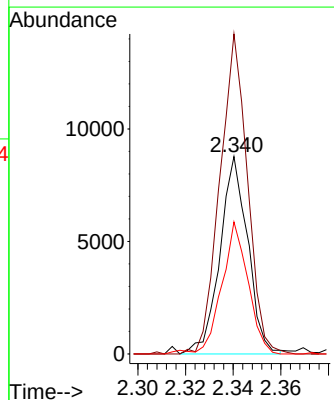
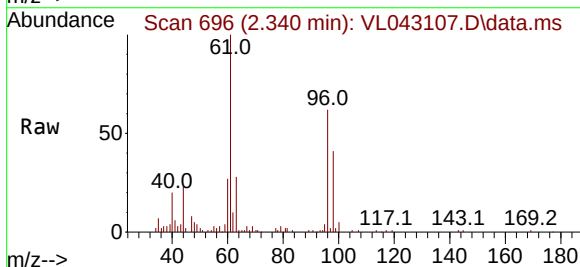
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

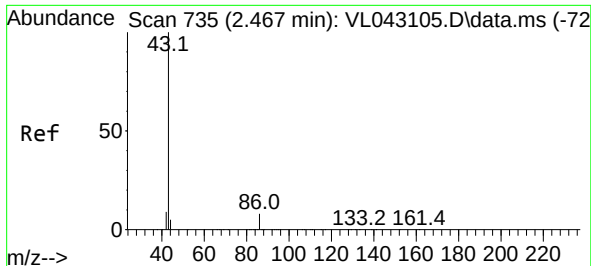
Tgt Ion: 41 Resp: 10737
 Ion Ratio Lower Upper
 41 100
 76 32.6 21.5 32.3#
 39 94.1 60.8 91.2#



#22
 trans-1,2-Dichloroethene
 Concen: 1.193 ppbv
 RT: 2.340 min Scan# 696
 Delta R.T. -0.003 min
 Lab File: VL043107.D
 Acq: 14 Oct 2025 12:01

Tgt Ion: 96 Resp: 7119
 Ion Ratio Lower Upper
 96 100
 61 162.1 137.0 205.6
 98 66.9 45.5 68.3



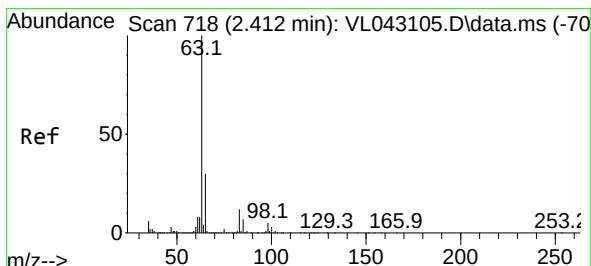
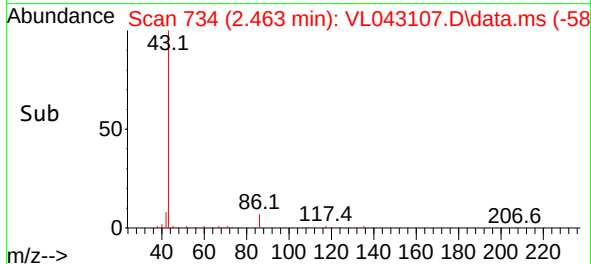
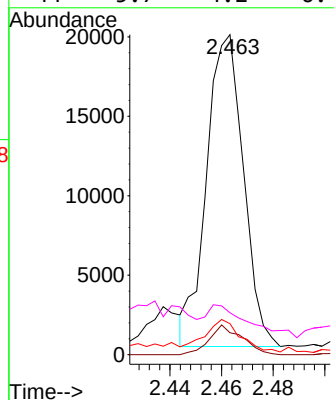
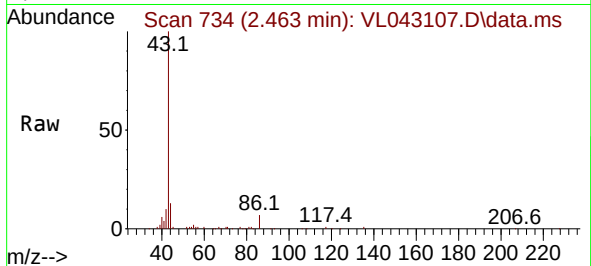


#23
 Vinyl Acetate
 Concen: 0.964 ppbv
 RT: 2.463 min Scan# 716
 Delta R.T. -0.003 min
 Lab File: VL043107.D
 Acq: 14 Oct 2025 12:01

Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

Tgt Ion: 43 Resp: 19477

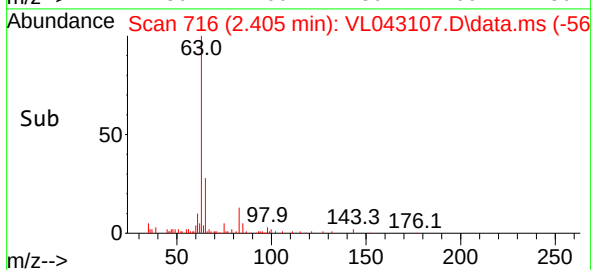
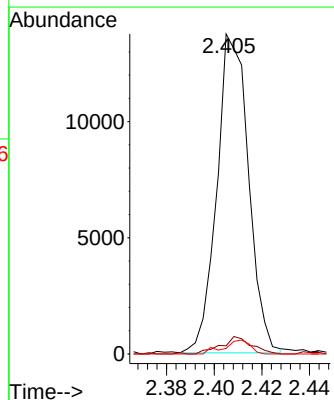
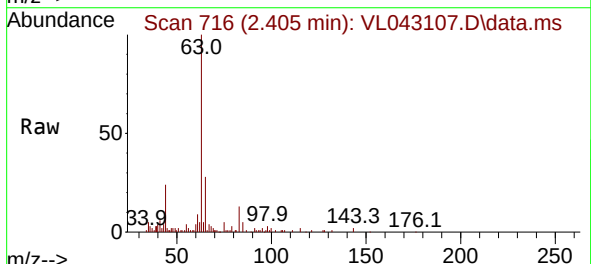
Ion	Ratio	Lower	Upper
43	100		
86	7.0	6.2	9.2
42	9.1	7.6	11.4
44	5.7	4.2	6.4

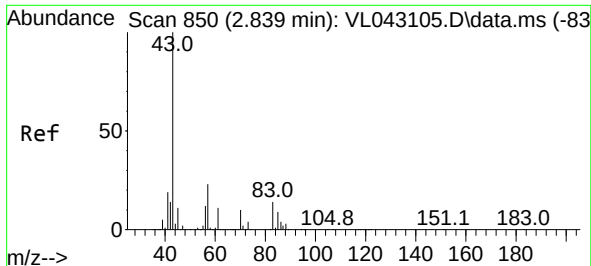


#24
 1,1-Dichloroethane
 Concen: 1.097 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. -0.007 min
 Lab File: VL043107.D
 Acq: 14 Oct 2025 12:01

Tgt Ion: 63 Resp: 12656

Ion	Ratio	Lower	Upper
63	100		
98	2.6	2.6	7.8#
100	1.7	1.5	4.4



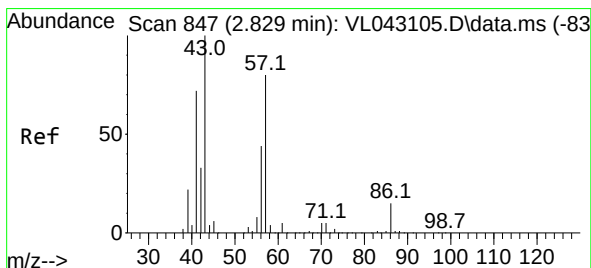
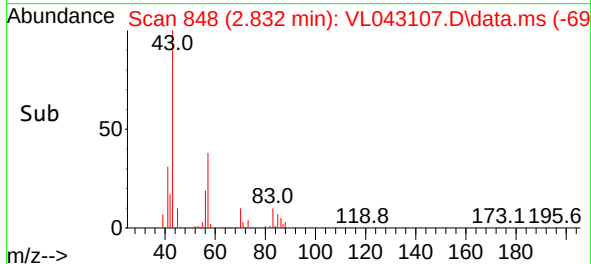
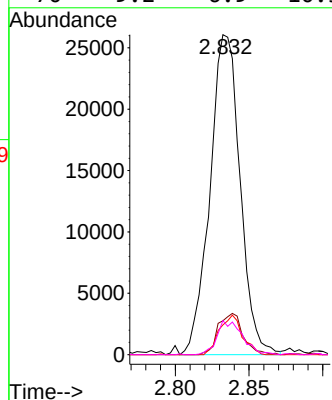
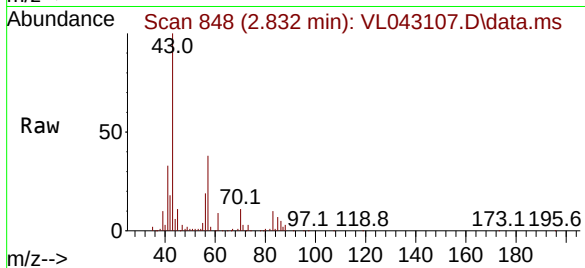


#25
Ethyl Acetate
Concen: 1.085 ppbv
RT: 2.832 min Scan# 84
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 43 Resp: 37093

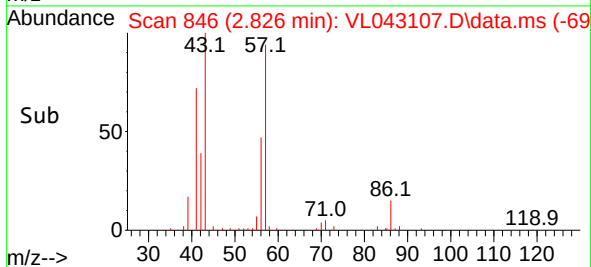
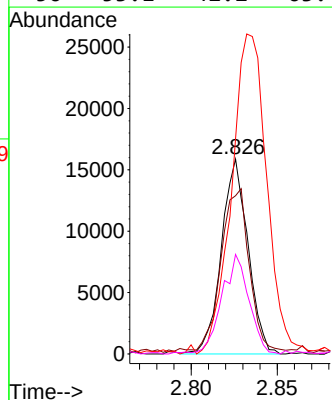
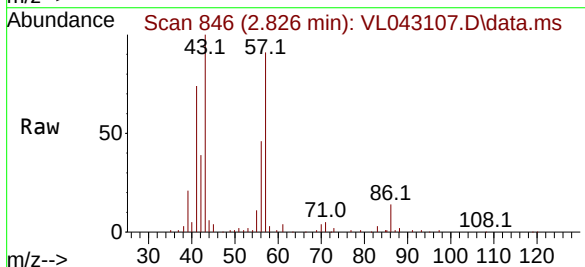
Ion	Ratio	Lower	Upper
43	100		
45	10.8	7.8	11.8
61	9.4	7.0	10.6
70	9.2	6.9	10.3

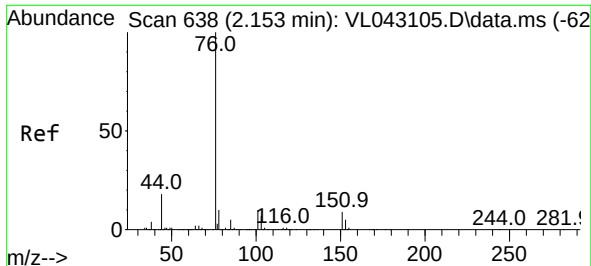


#26
Hexane
Concen: 1.089 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 57 Resp: 17152

Ion	Ratio	Lower	Upper
57	100		
41	91.8	71.4	107.0
43	219.3	178.5	267.7
56	53.1	42.2	63.4

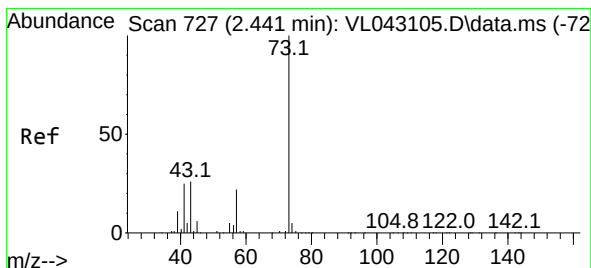
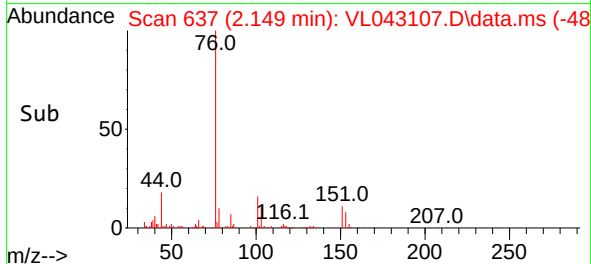
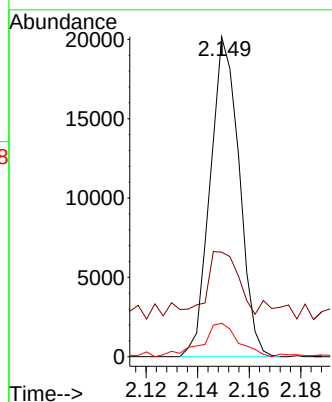
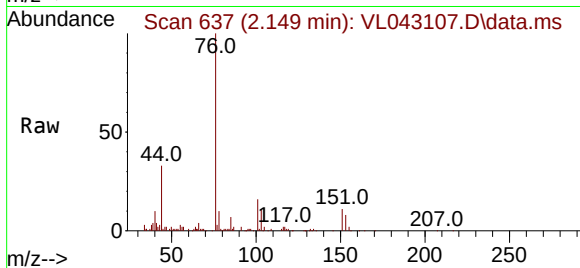




#27
Carbon Disulfide
Concen: 1.092 ppbv
RT: 2.149 min Scan# 61
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

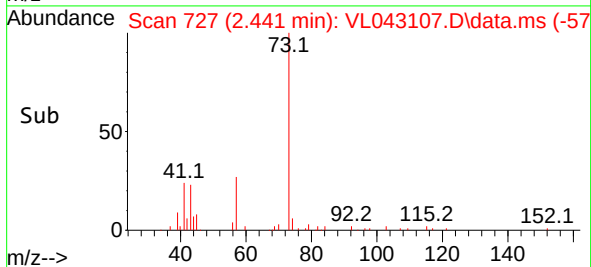
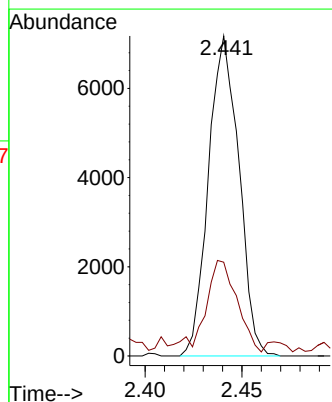
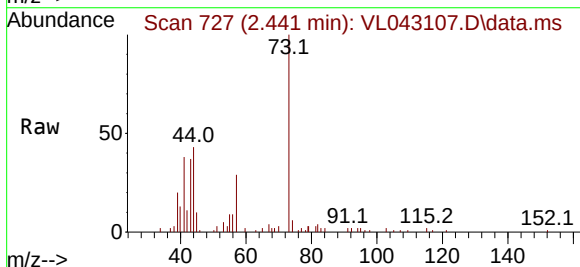
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

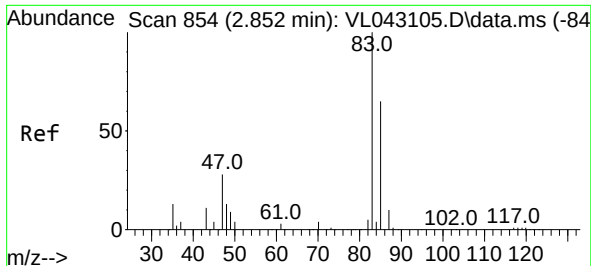
Tgt Ion: 76 Resp: 15760
Ion Ratio Lower Upper
76 100
44 47.9 16.7 25.1#
78 14.2 9.3 13.9#



#28
Methyl tert-Butyl Ether
Concen: 1.095 ppbv
RT: 2.441 min Scan# 727
Delta R.T. -0.000 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 73 Resp: 7847
Ion Ratio Lower Upper
73 100
57 32.3 20.5 30.7#





#29

Chloroform

Concen: 1.074 ppbv

RT: 2.845 min Scan# 81

Delta R.T. -0.007 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

Instrument :

MSVOA_L

ClientSampleId :

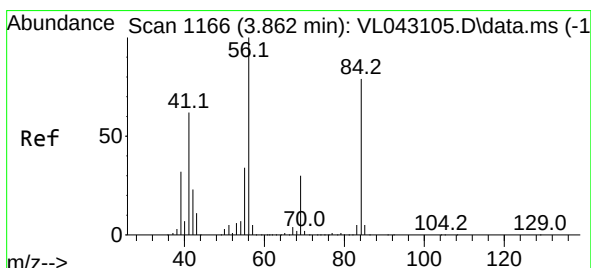
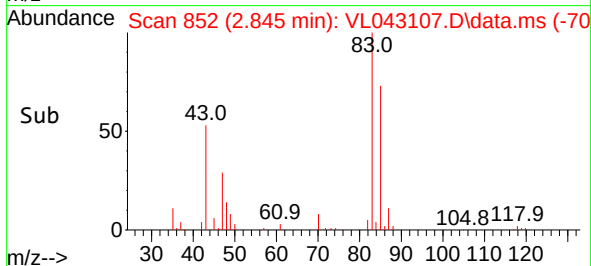
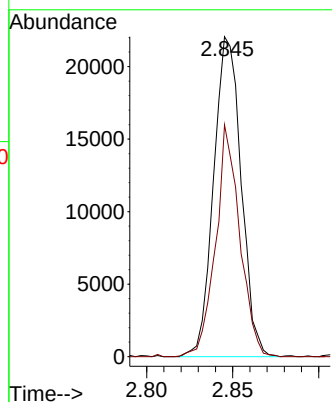
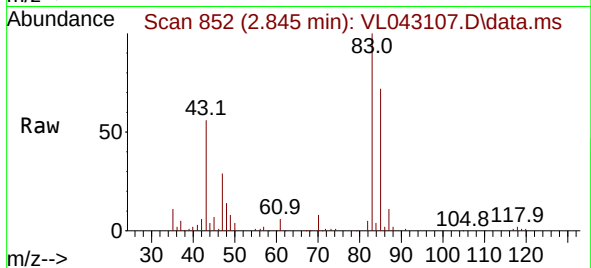
VSTDIC001

Tgt Ion: 83 Resp: 24527

Ion Ratio Lower Upper

83 100

85 72.4 51.8 77.6



#30

Cyclohexane

Concen: 1.078 ppbv

RT: 3.855 min Scan# 1164

Delta R.T. -0.007 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

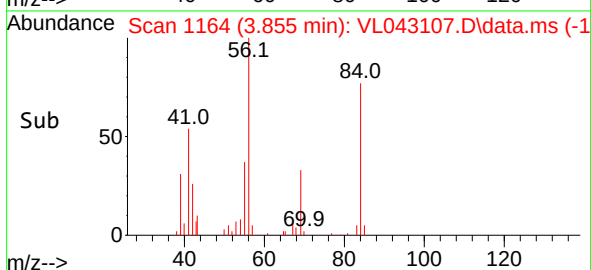
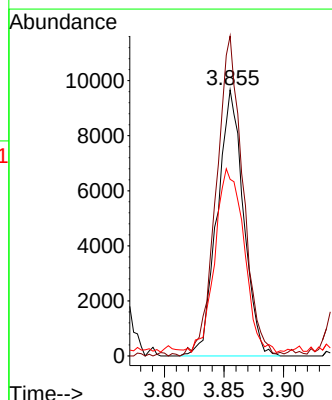
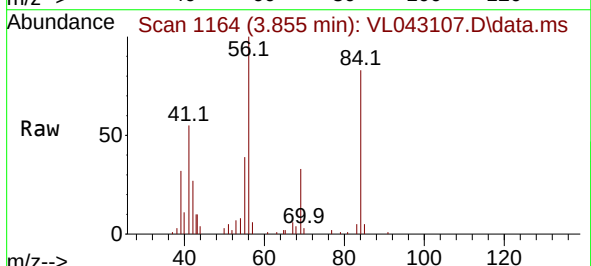
Tgt Ion: 84 Resp: 14819

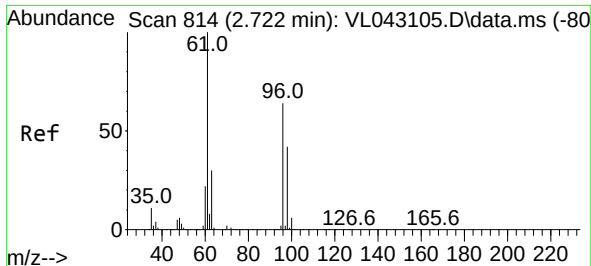
Ion Ratio Lower Upper

84 100

56 122.3 100.9 151.3

41 78.1 63.8 95.6

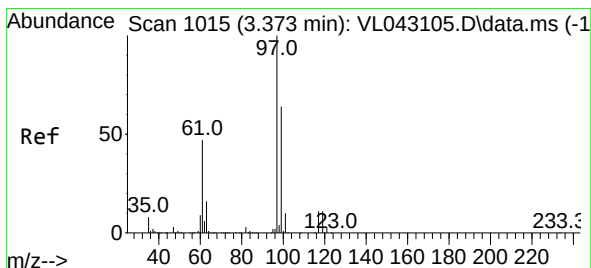
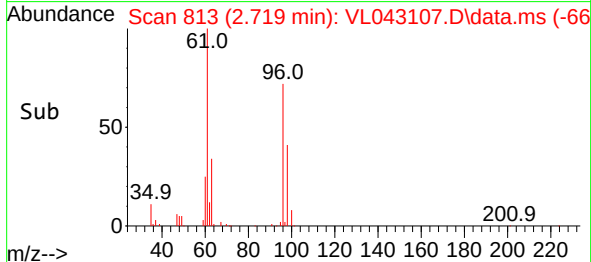
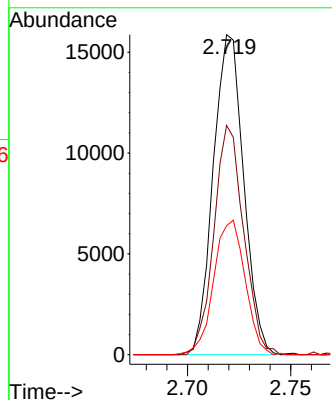
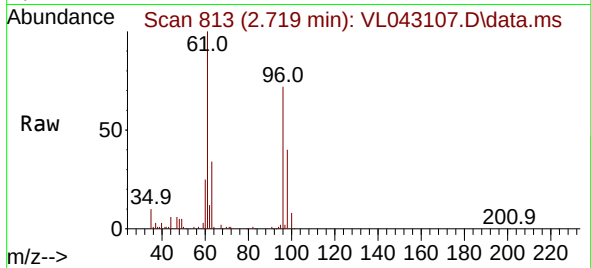




#31
 cis-1,2-Dichloroethene
 Concen: 1.084 ppbv
 RT: 2.719 min Scan# 814
 Delta R.T. -0.003 min
 Lab File: VL043107.D
 Acq: 14 Oct 2025 12:01

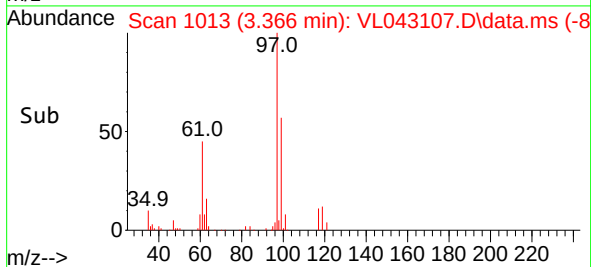
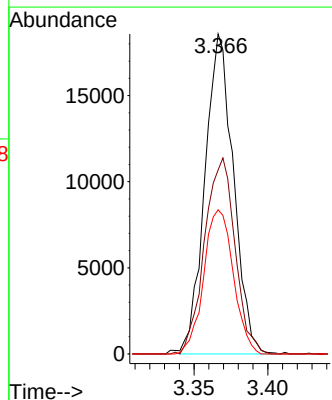
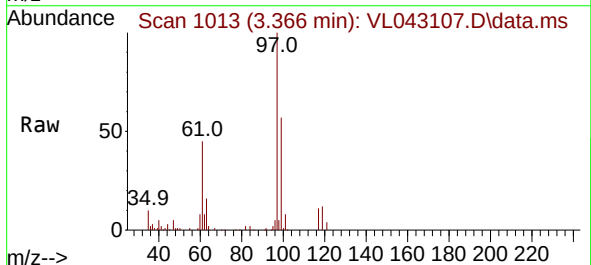
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

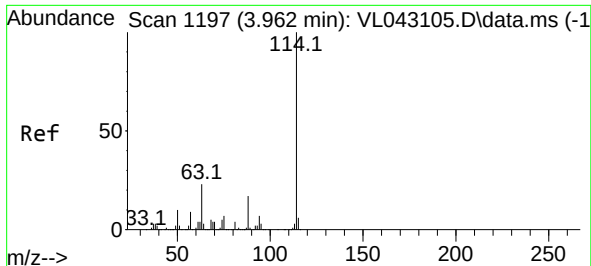
Tgt Ion: 61 Resp: 16311
 Ion Ratio Lower Upper
 61 100
 96 71.6 51.0 76.6
 98 39.9 33.5 50.3



#32
 1,1,1-Trichloroethane
 Concen: 1.049 ppbv
 RT: 3.366 min Scan# 1013
 Delta R.T. -0.007 min
 Lab File: VL043107.D
 Acq: 14 Oct 2025 12:01

Tgt Ion: 97 Resp: 24948
 Ion Ratio Lower Upper
 97 100
 99 65.4 51.3 76.9
 61 46.8 38.4 57.6

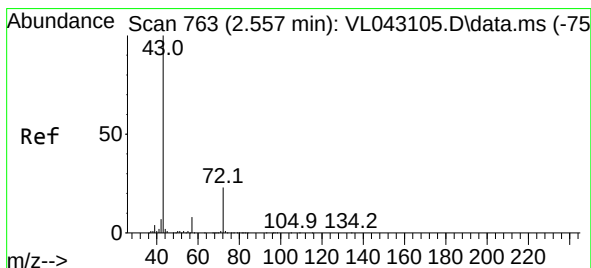
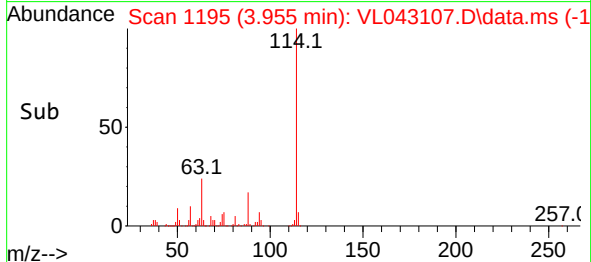
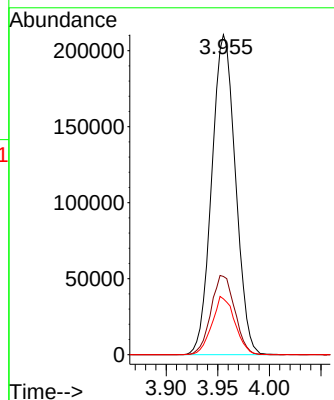
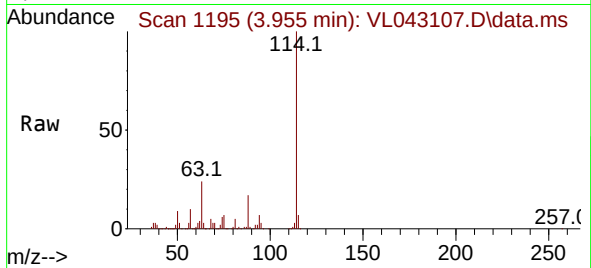




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.955 min Scan# 1195
 Delta R.T. -0.007 min
 Lab File: VL043107.D
 Acq: 14 Oct 2025 12:01

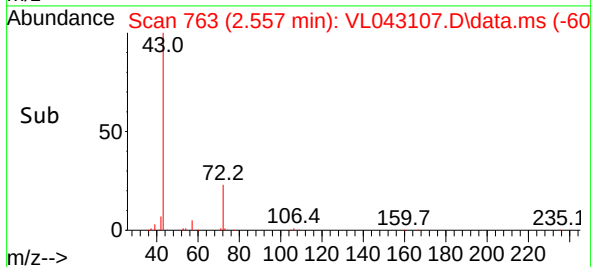
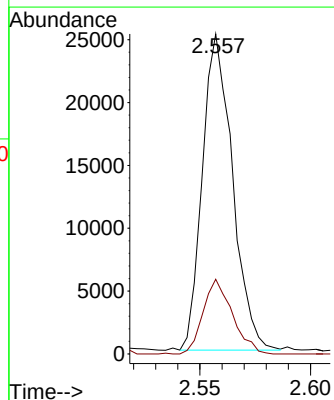
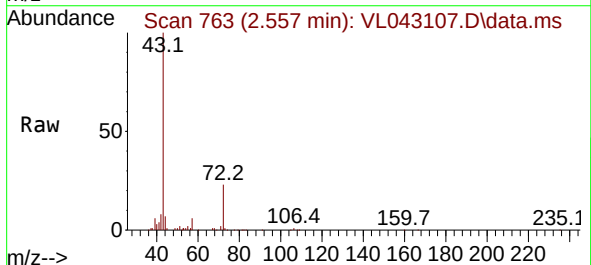
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

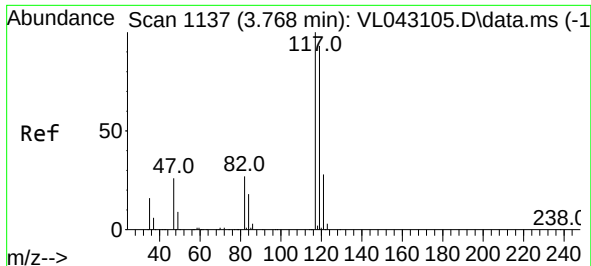
Tgt Ion:114 Resp: 336268
 Ion Ratio Lower Upper
 114 100
 63 24.8 19.3 28.9
 88 17.6 13.9 20.9



#34
 2-Butanone
 Concen: 1.047 ppbv
 RT: 2.557 min Scan# 763
 Delta R.T. -0.000 min
 Lab File: VL043107.D
 Acq: 14 Oct 2025 12:01

Tgt Ion: 43 Resp: 23811
 Ion Ratio Lower Upper
 43 100
 72 23.0 18.4 27.6

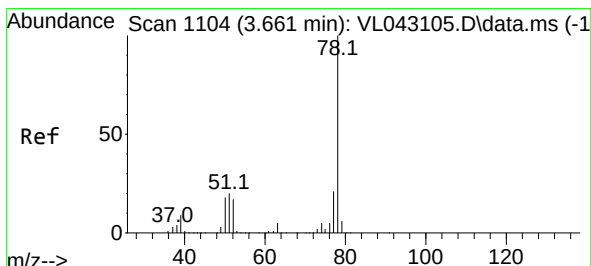
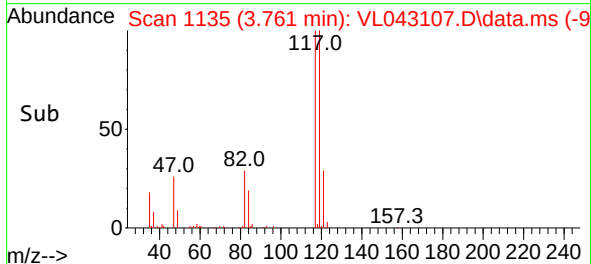
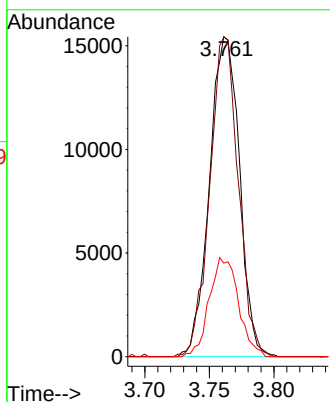
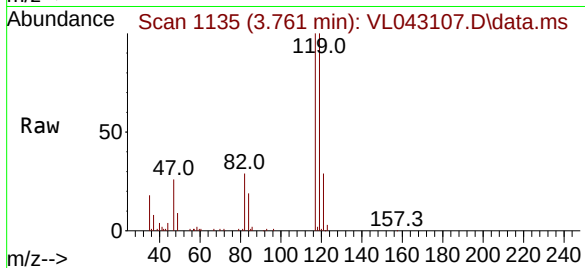




#35
Carbon Tetrachloride
Concen: 1.033 ppbv
RT: 3.761 min Scan# 1135
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

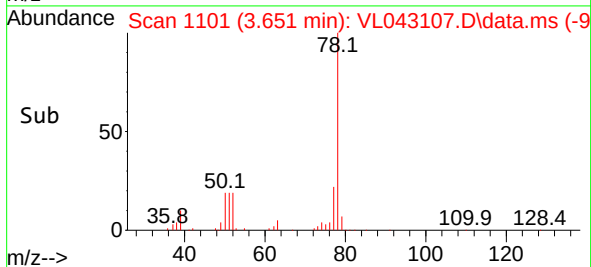
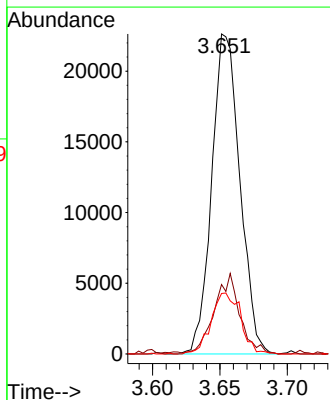
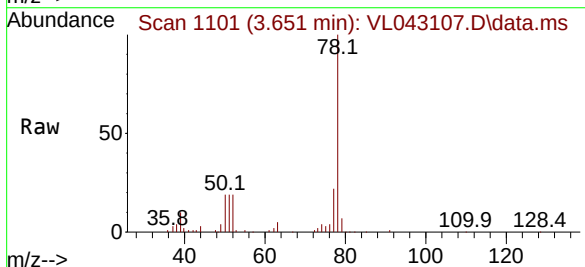
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

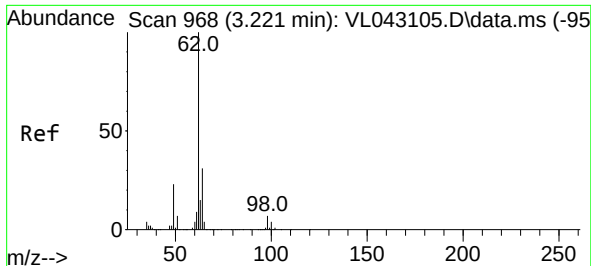
Tgt Ion:117 Resp: 24969
Ion Ratio Lower Upper
117 100
119 99.8 74.1 111.1
121 29.3 22.2 33.2



#36
Benzene
Concen: 1.040 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.010 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 78 Resp: 32940
Ion Ratio Lower Upper
78 100
77 21.7 17.0 25.6
50 18.9 14.6 22.0

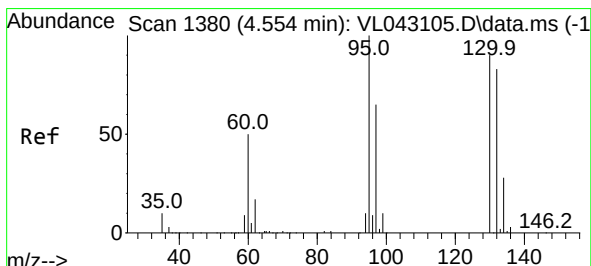
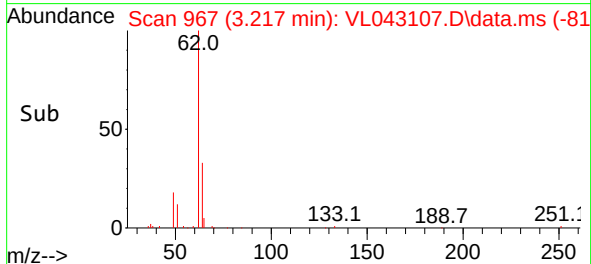
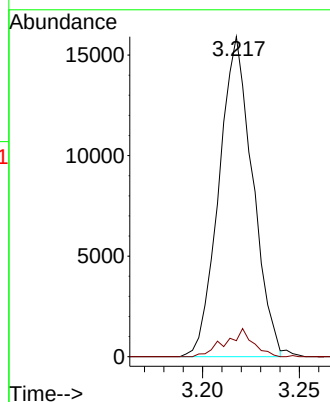
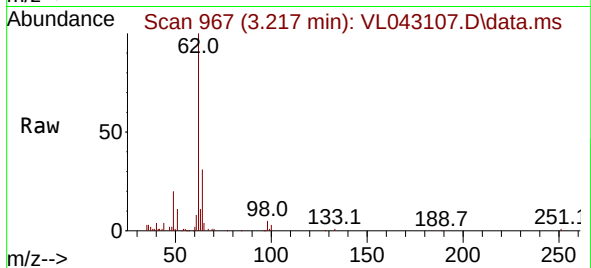




#37
1,2-Dichloroethane
Concen: 1.053 ppbv
RT: 3.217 min Scan# 91
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

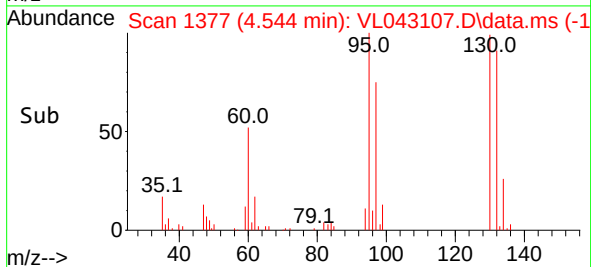
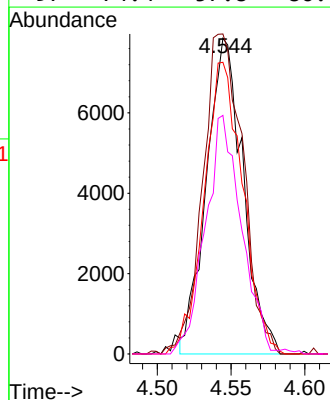
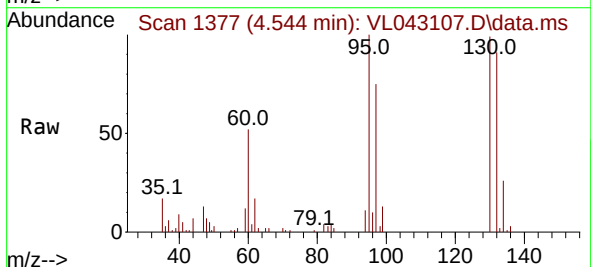
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

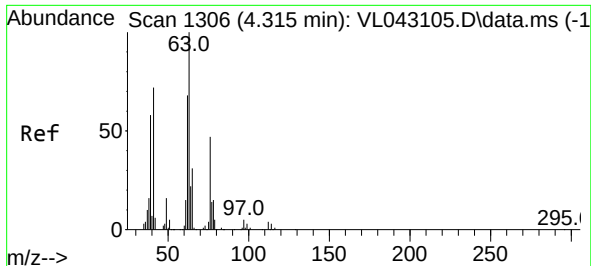
Tgt Ion: 62 Resp: 19213
Ion Ratio Lower Upper
62 100
98 7.2 5.8 8.6



#38
Trichloroethene
Concen: 1.023 ppbv
RT: 4.544 min Scan# 1377
Delta R.T. -0.010 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 130 Resp: 13512
Ion Ratio Lower Upper
130 100
95 101.4 88.6 133.0
132 91.5 73.4 110.0
97 74.4 57.8 86.6





#39

1,2-Dichloropropane

Concen: 1.073 ppbv

RT: 4.311 min Scan# 1306

Delta R.T. -0.003 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC001

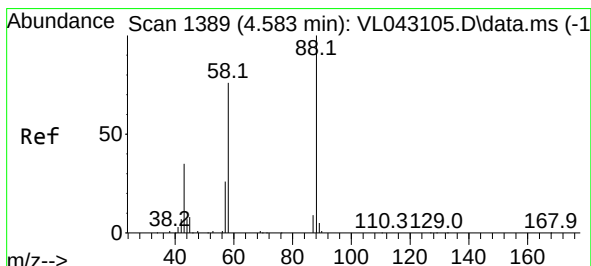
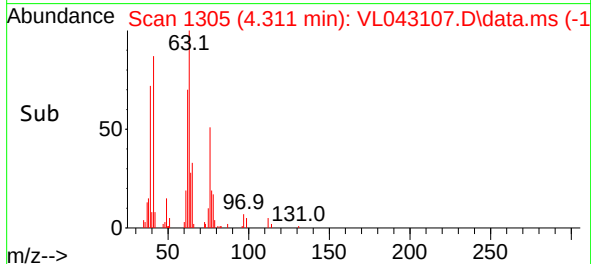
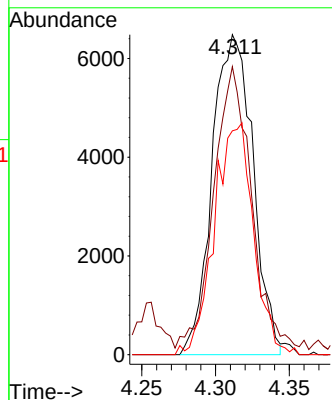
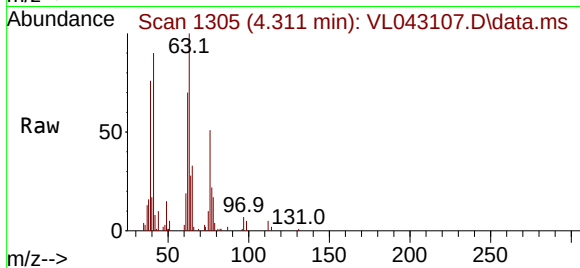
Tgt Ion: 63 Resp: 12435

Ion Ratio Lower Upper

63 100

41 84.3 58.0 87.0

62 67.2 54.7 82.1



#40

1,4-Dioxane

Concen: 0.622 ppbv

RT: 4.593 min Scan# 1392

Delta R.T. 0.009 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

Tgt Ion: 88 Resp: 3225

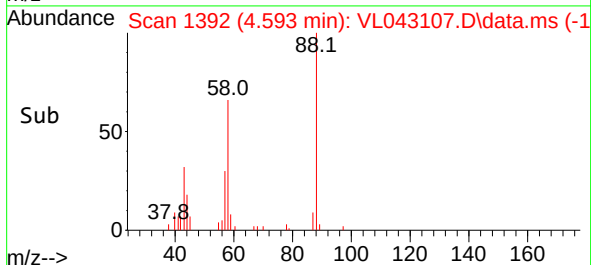
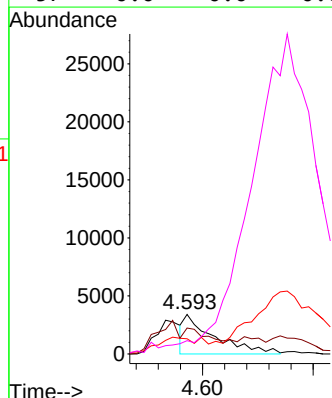
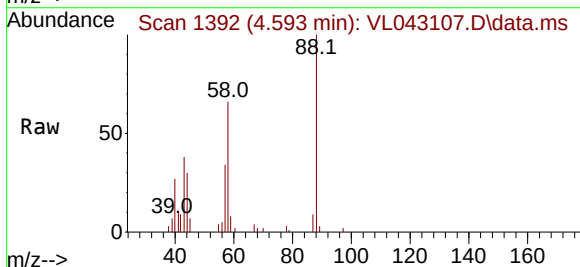
Ion Ratio Lower Upper

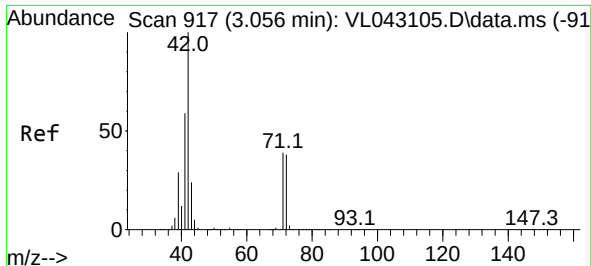
88 100

58 0.0 61.1 91.7#

43 0.0 24.0 36.0#

57 0.0 0.0 0.0

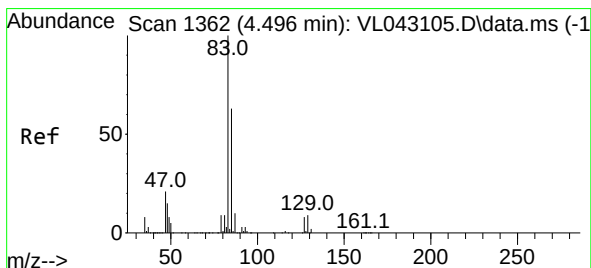
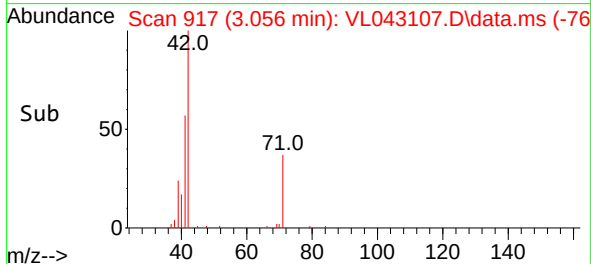
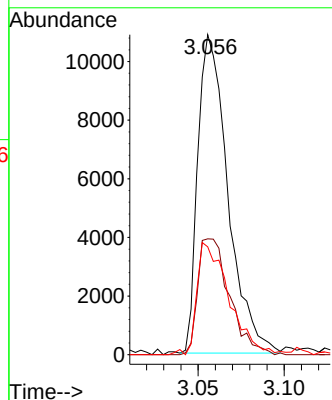
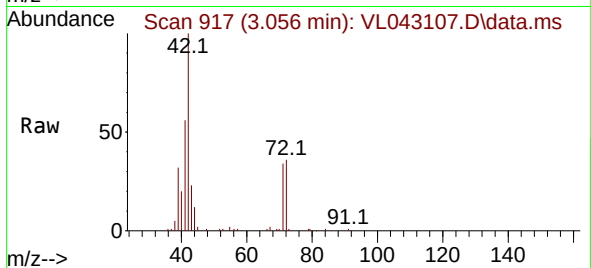




#41
Tetrahydrofuran
Concen: 1.044 ppbv
RT: 3.056 min Scan# 917
Delta R.T. -0.000 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

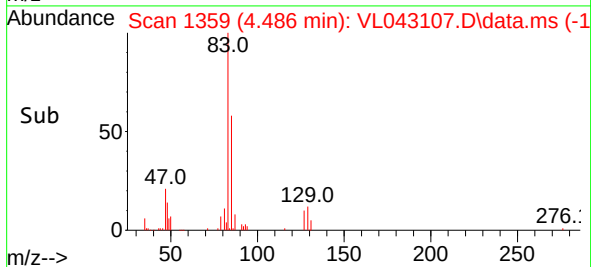
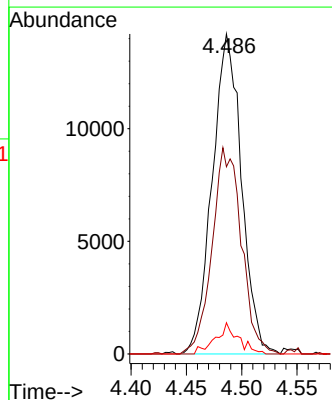
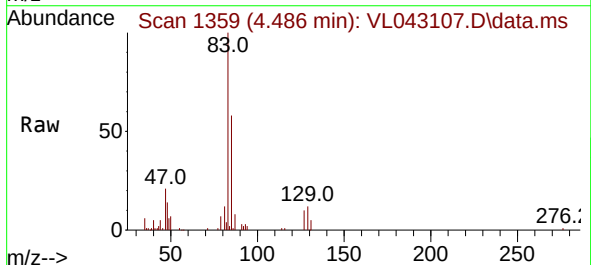
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

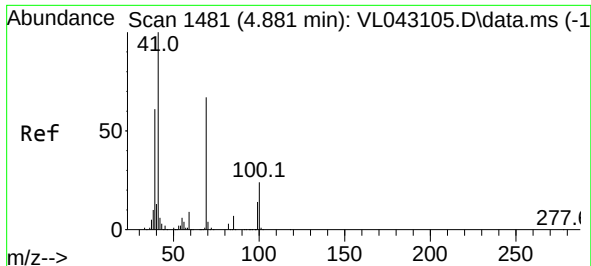
Tgt Ion:	42	Resp:	13251
Ion	Ratio	Lower	Upper
42	100		
72	38.1	31.3	46.9
71	38.6	30.4	45.6



#42
Bromodichloromethane
Concen: 1.032 ppbv
RT: 4.486 min Scan# 1359
Delta R.T. -0.010 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion:	83	Resp:	26069
Ion	Ratio	Lower	Upper
83	100		
85	58.5	50.6	75.8
127	9.8	6.3	9.5

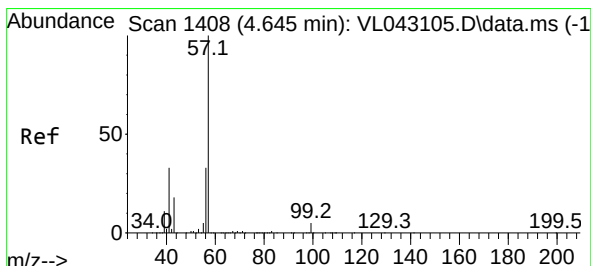
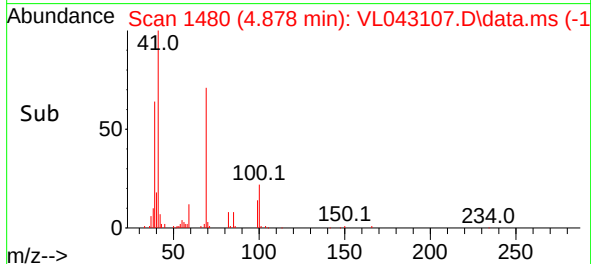
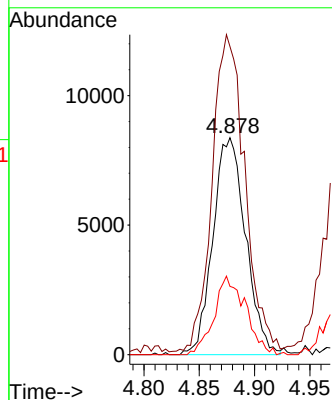
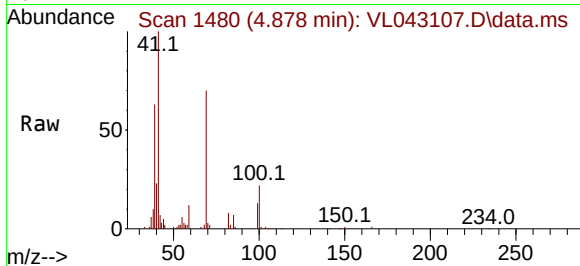




#43
Methyl Methacrylate
Concen: 1.064 ppbv
RT: 4.878 min Scan# 1481
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

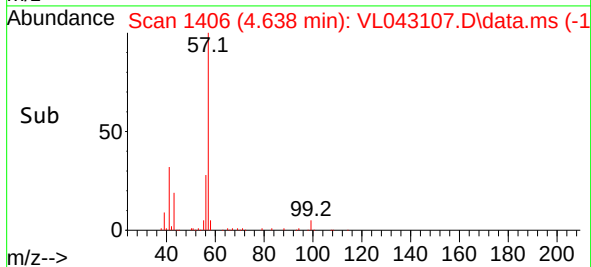
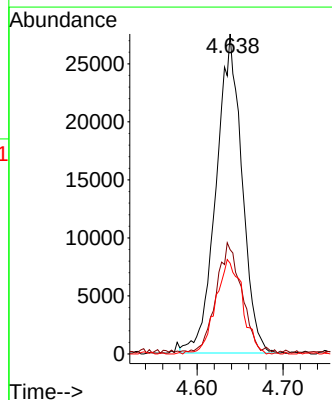
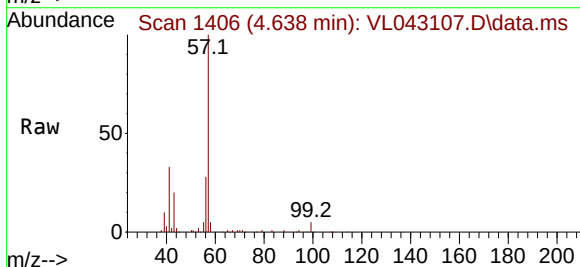
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

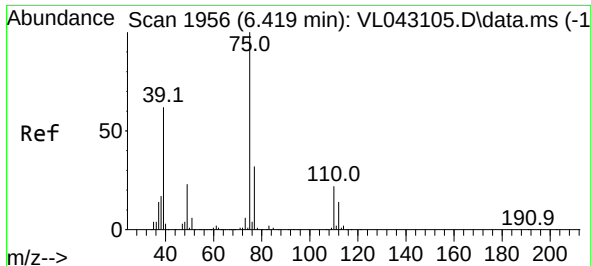
Tgt Ion: 69 Resp: 17195
Ion Ratio Lower Upper
69 100
41 145.9 120.5 180.7
100 35.0 29.0 43.4



#44
2,2,4-Trimethylpentane
Concen: 1.084 ppbv
RT: 4.638 min Scan# 1406
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 57 Resp: 57382
Ion Ratio Lower Upper
57 100
41 35.4 26.3 39.5
56 30.7 25.9 38.9





#45

t-1,3-Dichloropropene

Concen: 0.452 ppbv

RT: 6.415 min Scan# 1956

Delta R.T. -0.003 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

Instrument :

MSVOA_L

ClientSampleId :

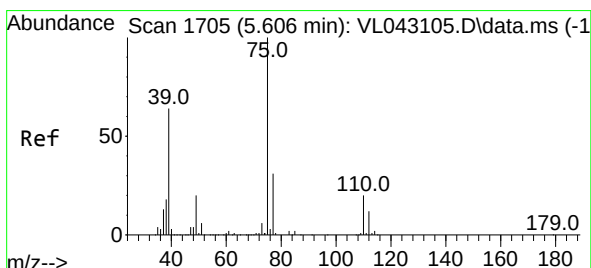
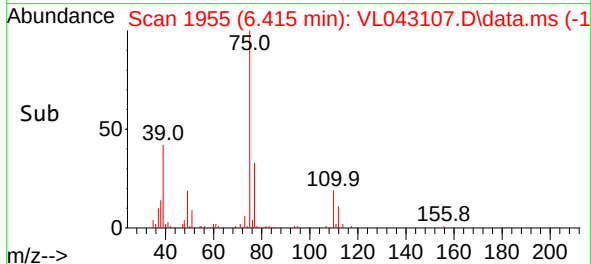
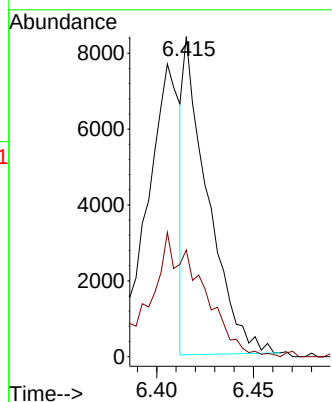
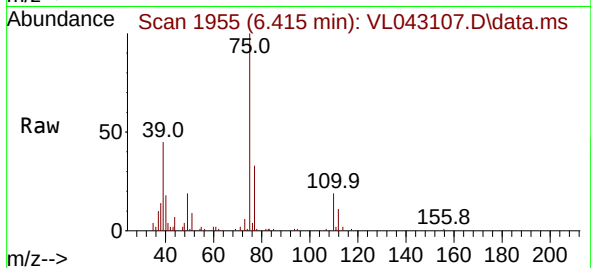
VSTDIC001

Tgt Ion: 75 Resp: 7304

Ion Ratio Lower Upper

75 100

77 33.4 25.4 38.2



#46

cis-1,3-Dichloropropene

Concen: 1.029 ppbv

RT: 5.596 min Scan# 1702

Delta R.T. -0.010 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

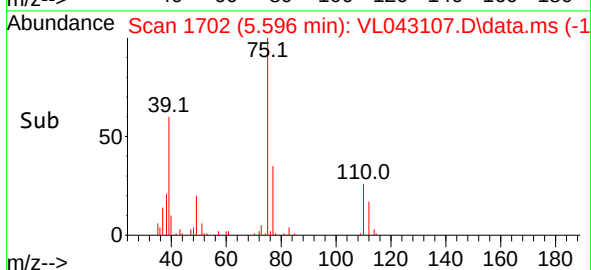
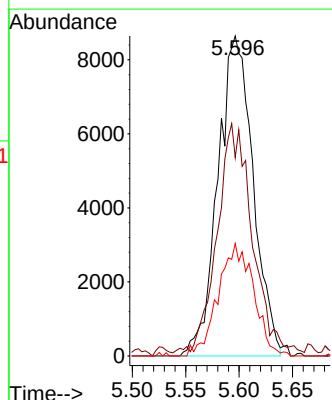
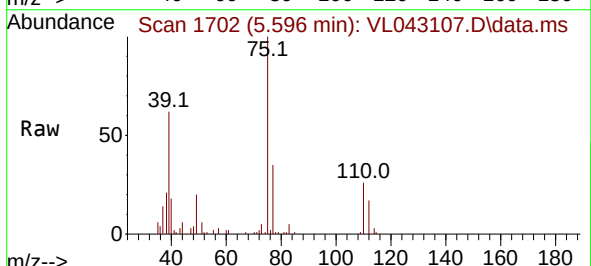
Tgt Ion: 75 Resp: 19830

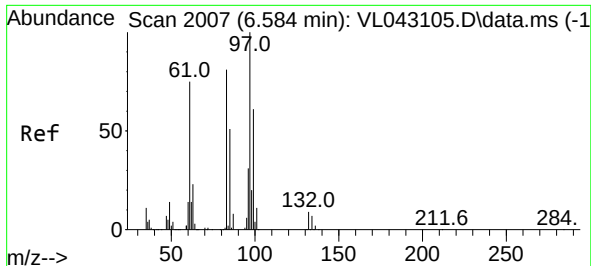
Ion Ratio Lower Upper

75 100

39 59.6 51.0 76.6

77 35.1 25.0 37.4



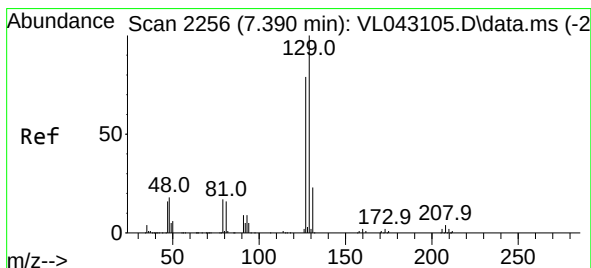
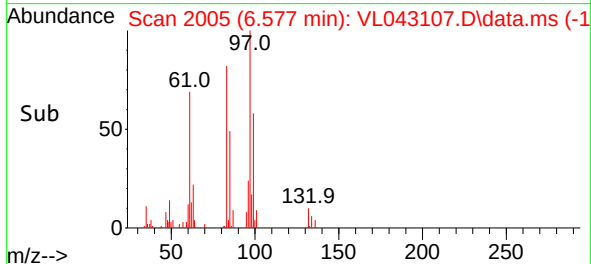
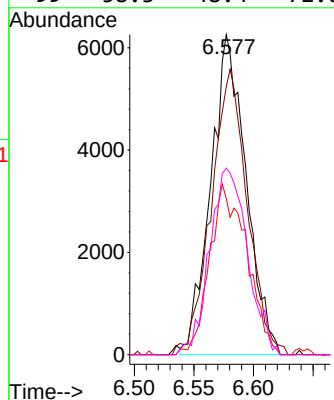
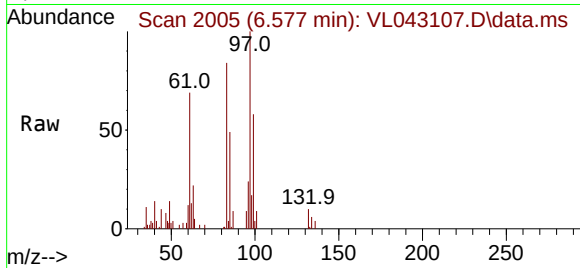


#47
1,1,2-Trichloroethane
Concen: 1.030 ppbv
RT: 6.577 min Scan# 2005
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 97 Resp: 12876

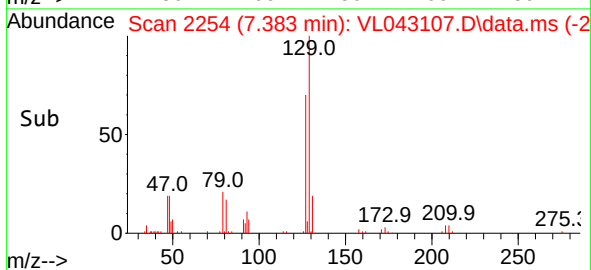
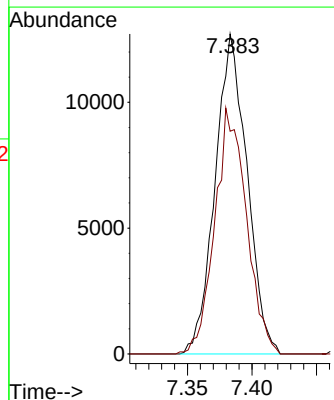
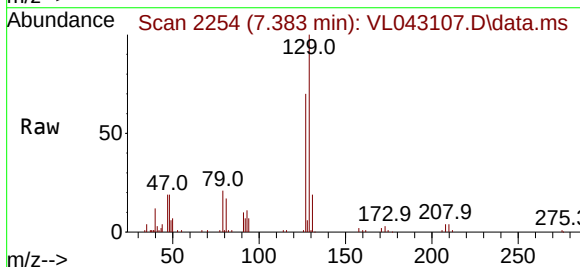
Ion	Ratio	Lower	Upper
97	100		
83	80.9	64.6	96.8
85	48.8	40.6	60.8
99	58.3	48.4	72.6

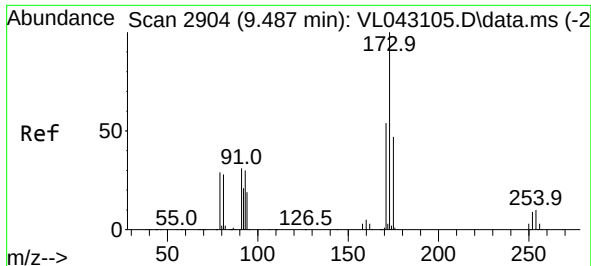


#48
Dibromochloromethane
Concen: 1.046 ppbv
RT: 7.383 min Scan# 2254
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 129 Resp: 21874

Ion	Ratio	Lower	Upper
129	100		
127	76.1	39.3	117.9

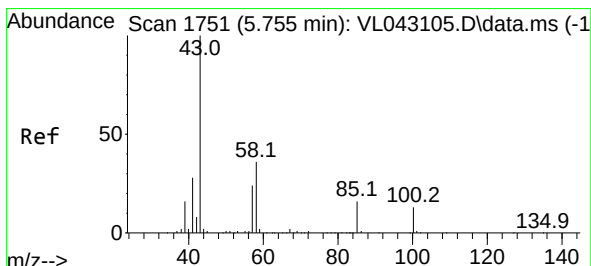
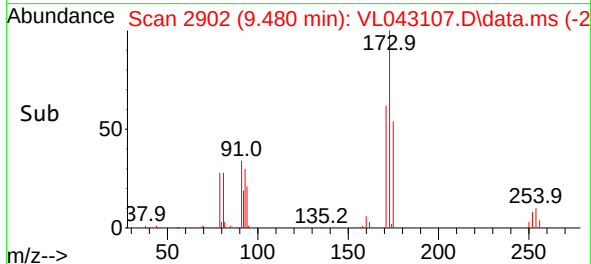
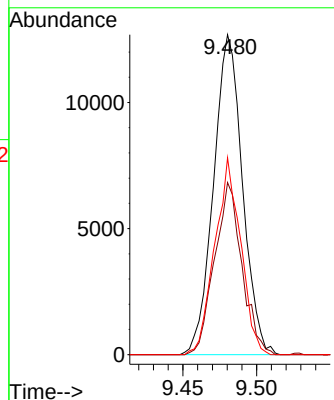
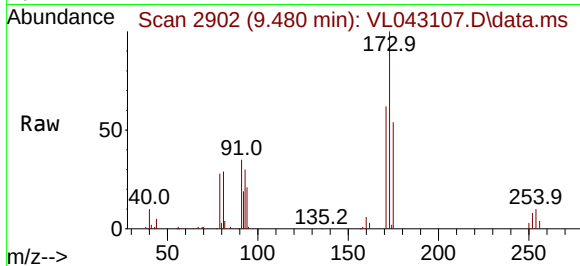




#49
Bromoform
Concen: 1.019 ppbv
RT: 9.480 min Scan# 2904
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

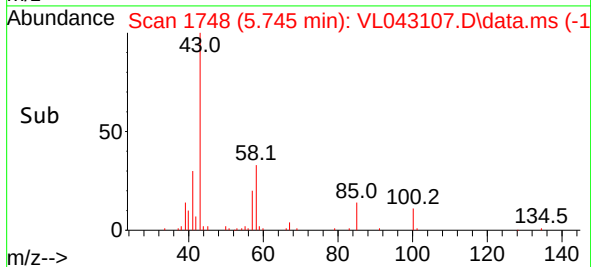
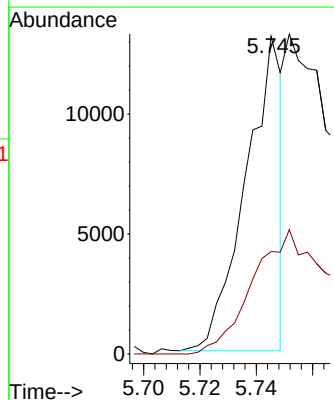
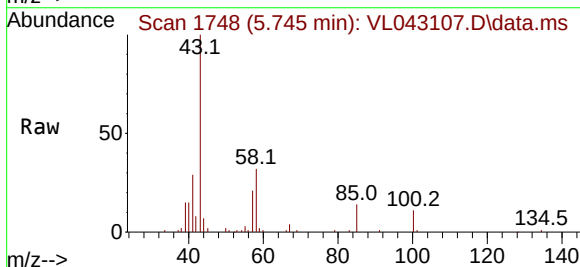
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

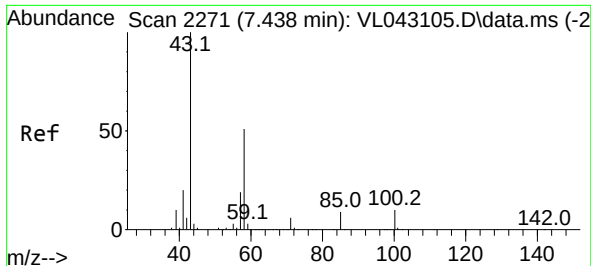
Tgt Ion:173 Resp: 17320
Ion Ratio Lower Upper
173 100
175 50.9 38.8 58.2
171 55.0 41.7 62.5



#50
4-Methyl-2-Pentanone
Concen: 0.371 ppbv
RT: 5.745 min Scan# 1748
Delta R.T. -0.010 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 43 Resp: 11642
Ion Ratio Lower Upper
43 100
58 0.0 29.1 43.7#

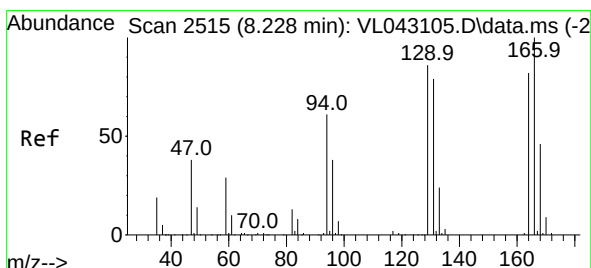
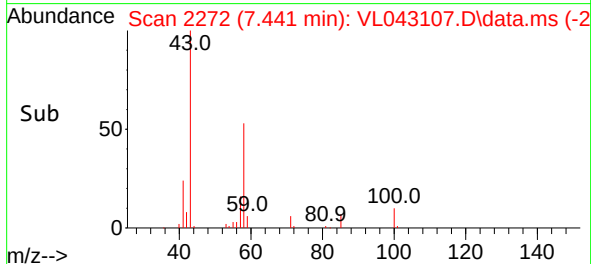
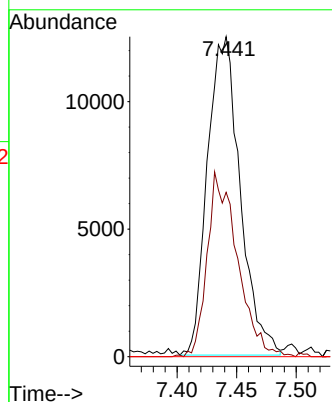
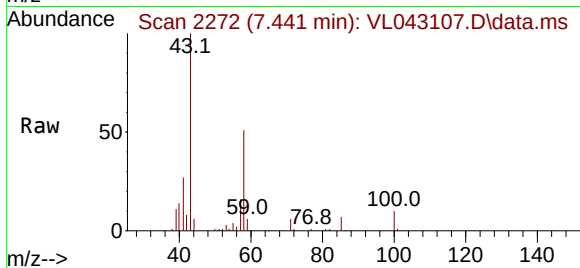




#51
2-Hexanone
Concen: 1.018 ppbv
RT: 7.441 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

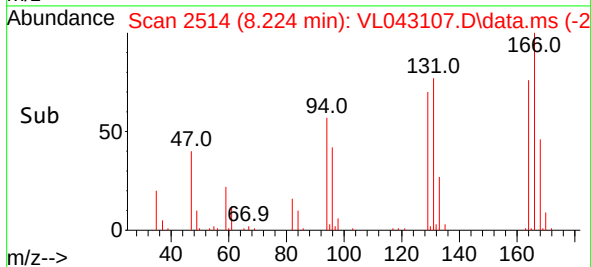
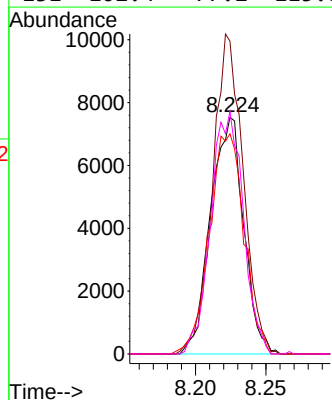
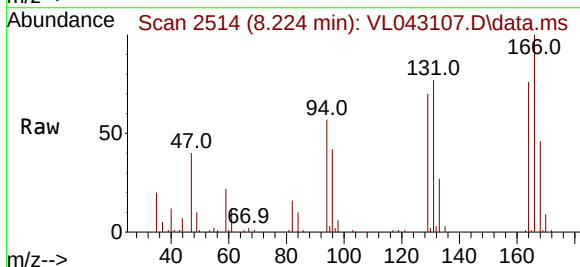
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

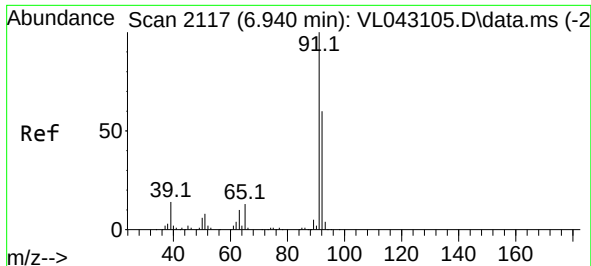
Tgt Ion: 43 Resp: 23817
Ion Ratio Lower Upper
43 100
58 53.7 40.4 60.6
98 0.0 0.1 0.1#



#52
Tetrachloroethene
Concen: 1.079 ppbv
RT: 8.224 min Scan# 2514
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 164 Resp: 12319
Ion Ratio Lower Upper
164 100
166 132.1 97.6 146.4
129 93.0 84.5 126.7
131 102.4 77.2 115.8

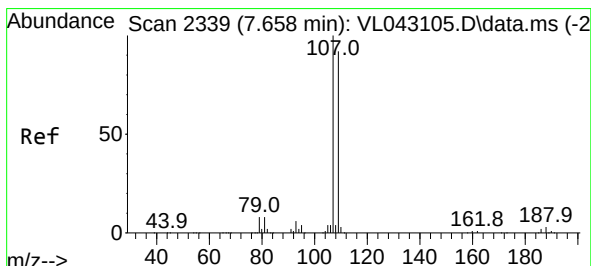
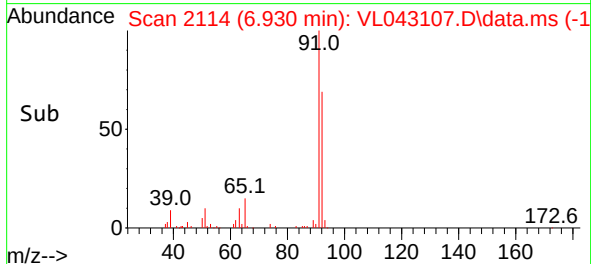
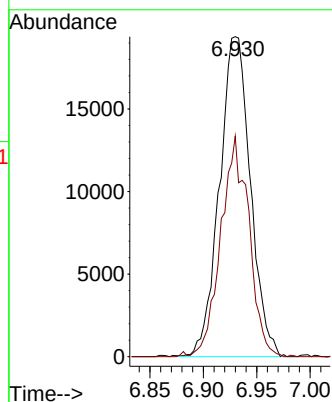
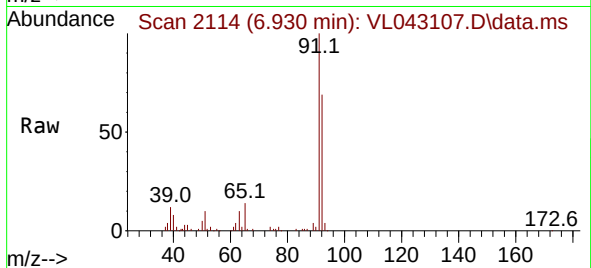




#53
Toluene
Concen: 1.040 ppbv
RT: 6.930 min Scan# 2114
Delta R.T. -0.010 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

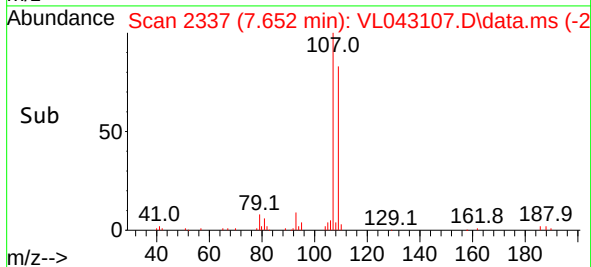
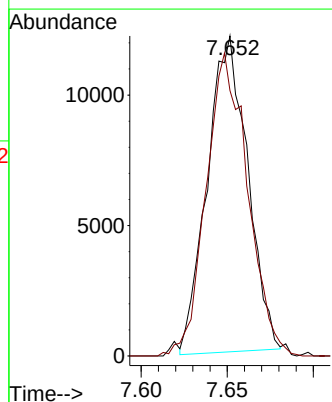
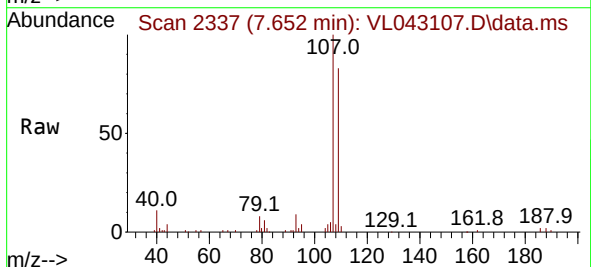
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

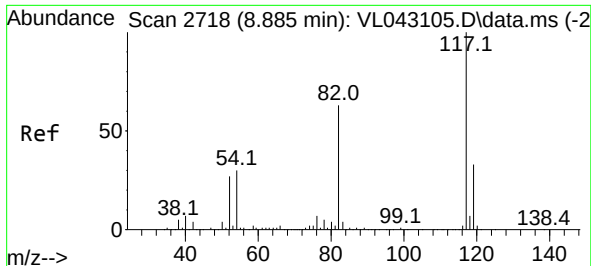
Tgt Ion: 91 Resp: 39079
Ion Ratio Lower Upper
91 100
92 62.8 48.8 73.2



#54
1,2-Dibromoethane
Concen: 0.999 ppbv
RT: 7.652 min Scan# 2337
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 107 Resp: 19711
Ion Ratio Lower Upper
107 100
109 80.7 73.4 110.2

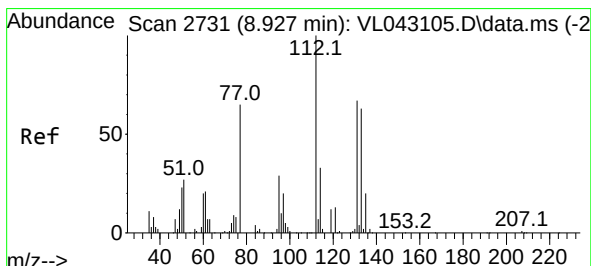
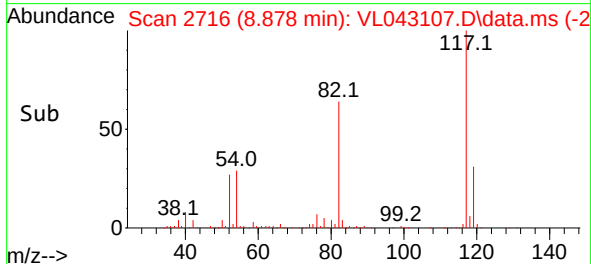
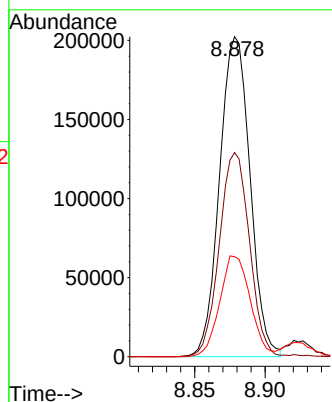
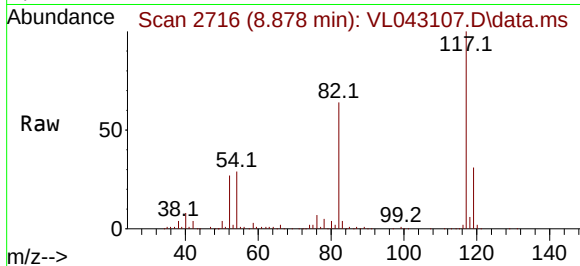




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2716
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

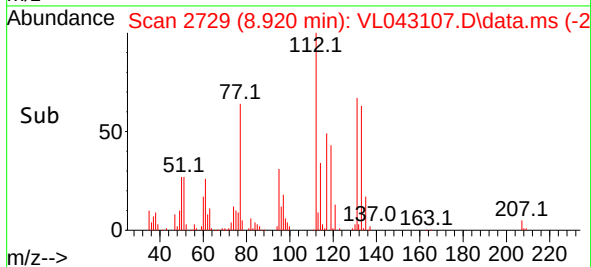
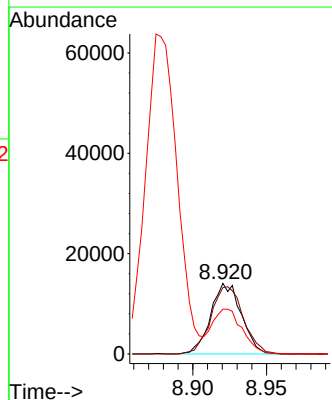
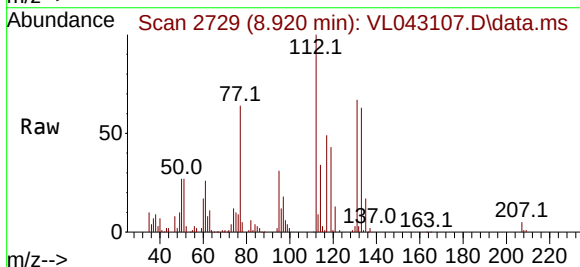
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

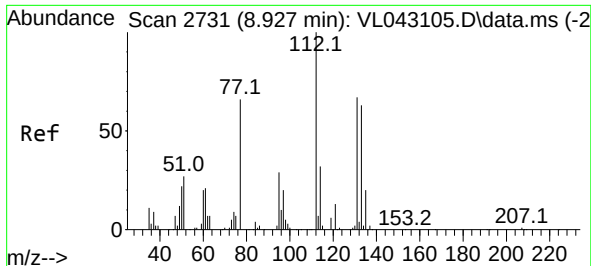
Tgt Ion:117 Resp: 305409
Ion Ratio Lower Upper
117 100
82 63.4 53.8 80.8
119 32.3 25.4 38.0



#56
1,1,1,2-Tetrachloroethane
Concen: 1.053 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion:131 Resp: 20279
Ion Ratio Lower Upper
131 100
133 100.9 75.7 113.5
119 62.1 50.6 76.0

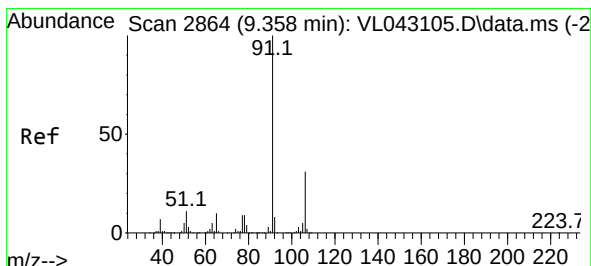
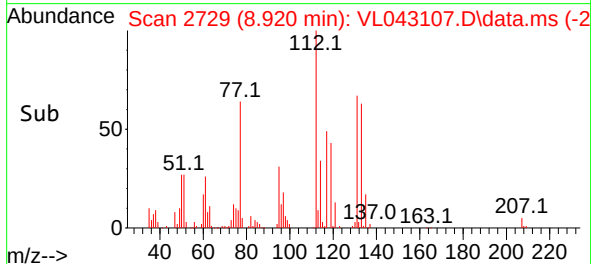
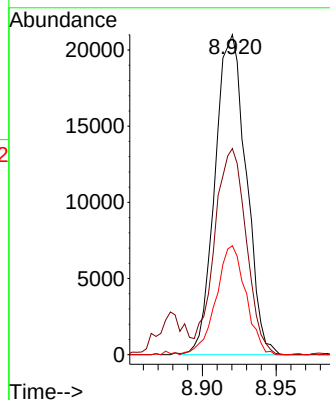
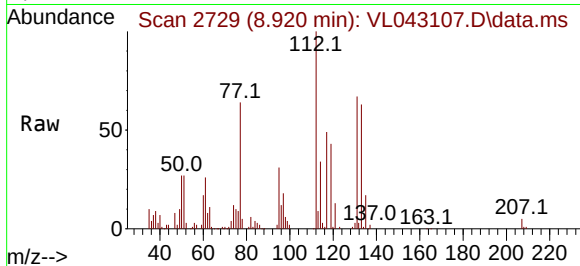




#57
Chlorobenzene
Concen: 1.079 ppbv
RT: 8.920 min Scan# 21
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

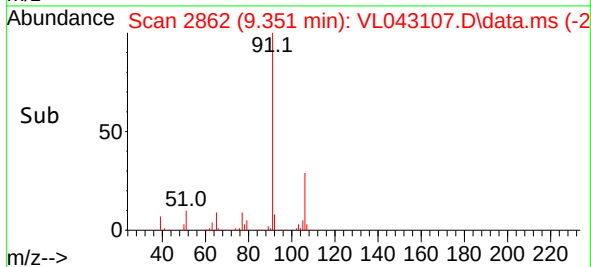
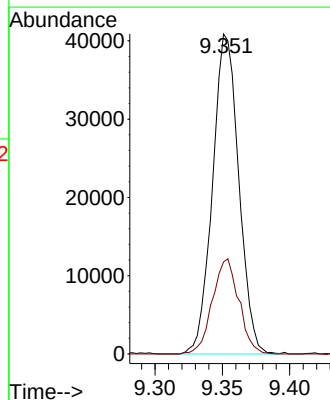
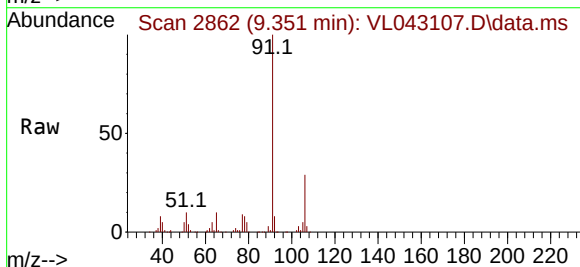
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

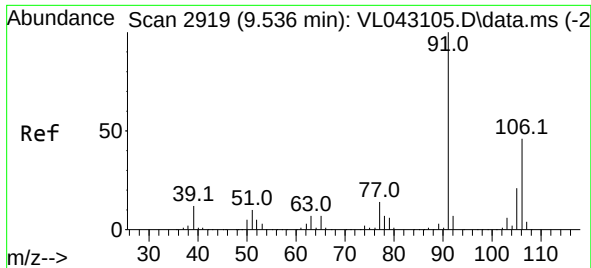
Tgt Ion:112 Resp: 30824
Ion Ratio Lower Upper
112 100
77 64.2 53.3 79.9
114 34.1 29.3 35.8



#58
Ethyl Benzene
Concen: 1.049 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 91 Resp: 55420
Ion Ratio Lower Upper
91 100
106 28.7 24.8 37.2

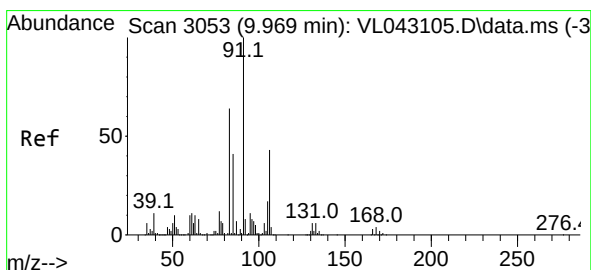
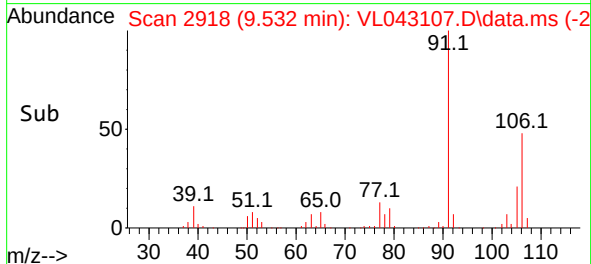
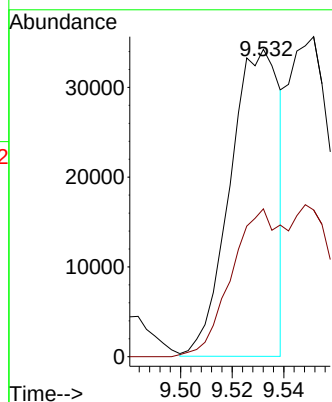
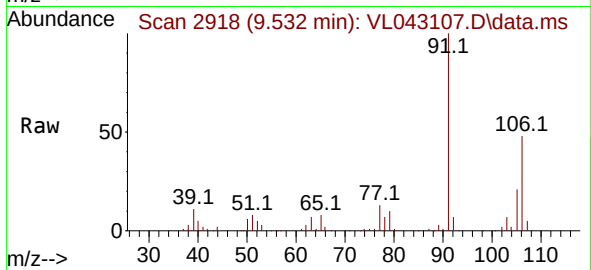




#59
m/p-Xylene
Concen: 1.087 ppbv
RT: 9.532 min Scan# 2919
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

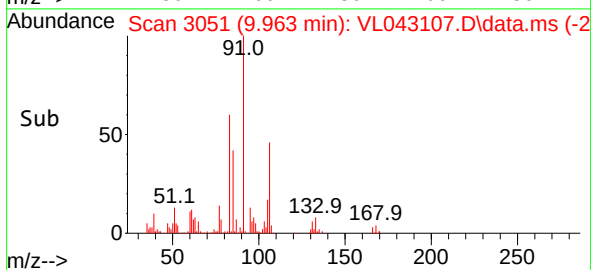
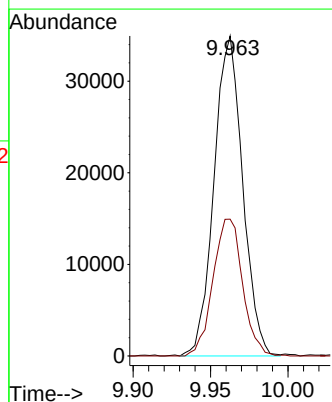
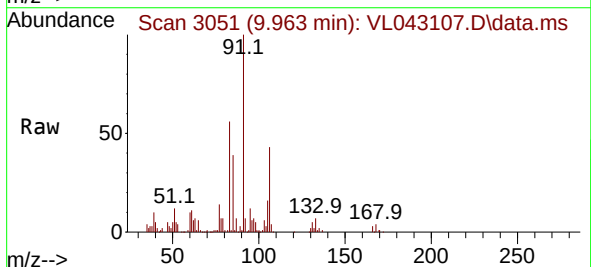
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

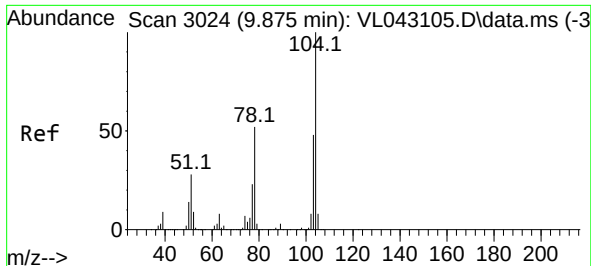
Tgt Ion: 91 Resp: 45483
Ion Ratio Lower Upper
91 100
106 0.0 38.0 57.0#



#60
o-Xylene
Concen: 1.088 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 91 Resp: 44925
Ion Ratio Lower Upper
91 100
106 44.1 21.9 65.8

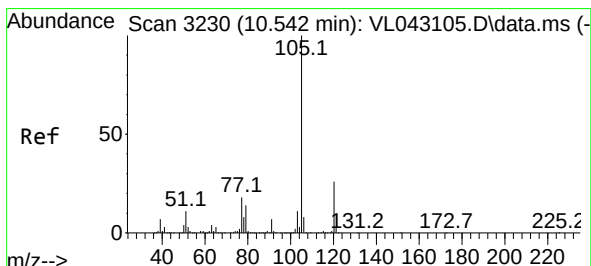
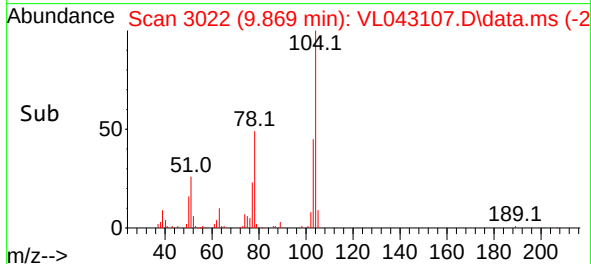
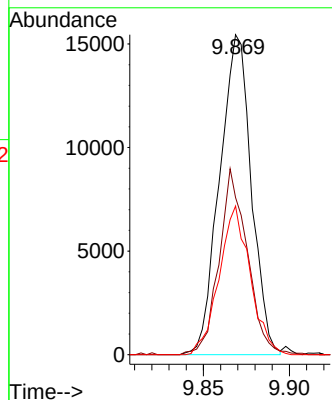
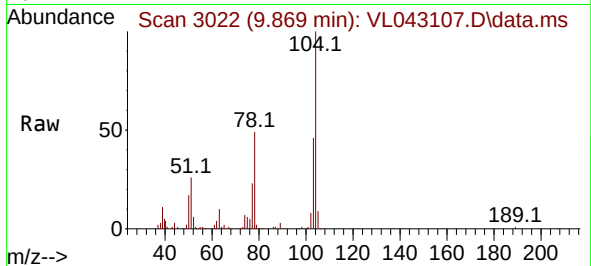




#61
Styrene
Concen: 1.063 ppbv
RT: 9.869 min Scan# 3024
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

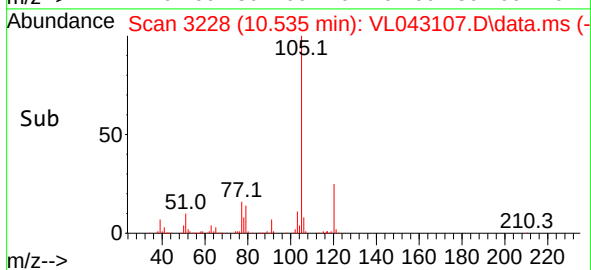
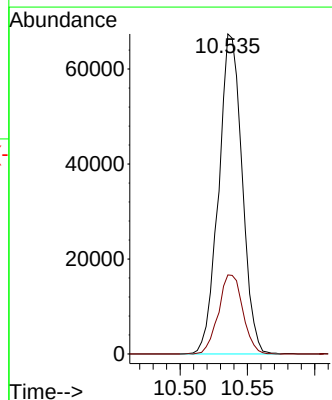
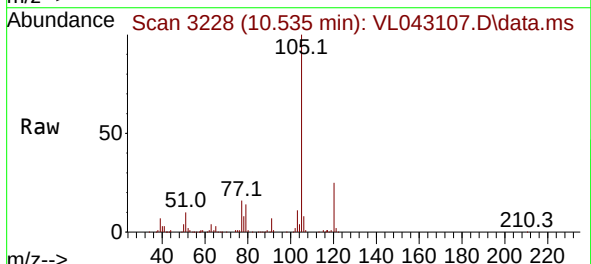
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

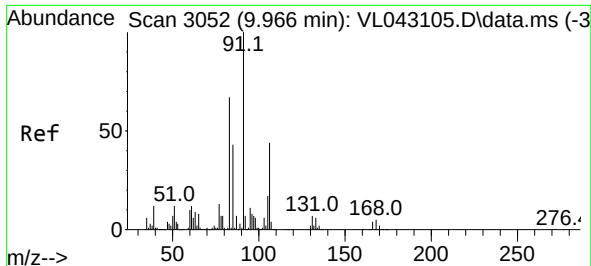
Tgt Ion:104 Resp: 19809
Ion Ratio Lower Upper
104 100
78 51.8 40.2 60.2
103 45.5 36.9 55.3



#62
Isopropylbenzene
Concen: 1.093 ppbv
RT: 10.535 min Scan# 3228
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion:105 Resp: 81579
Ion Ratio Lower Upper
105 100
120 25.6 20.2 30.4

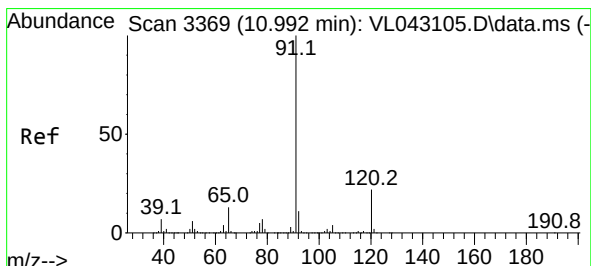
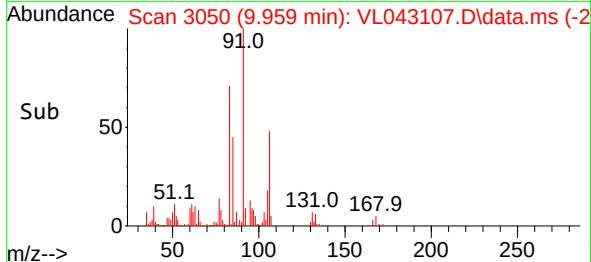
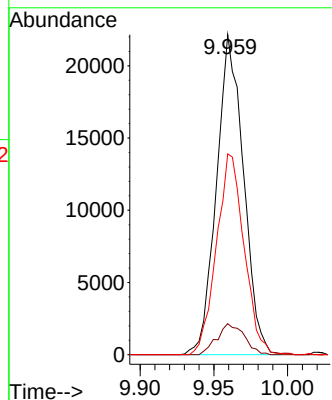
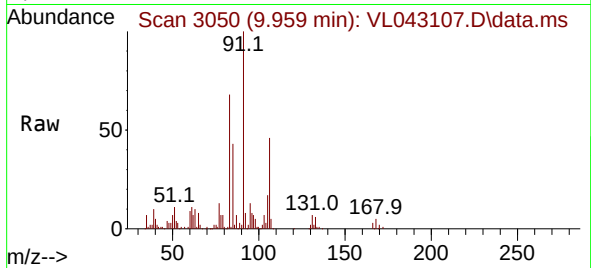




#63
1,1,2,2-Tetrachloroethane
Concen: 1.021 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

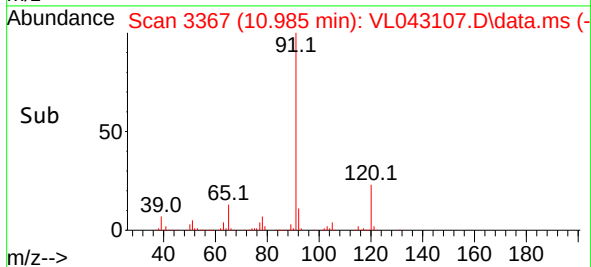
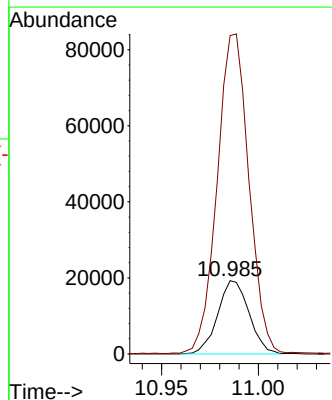
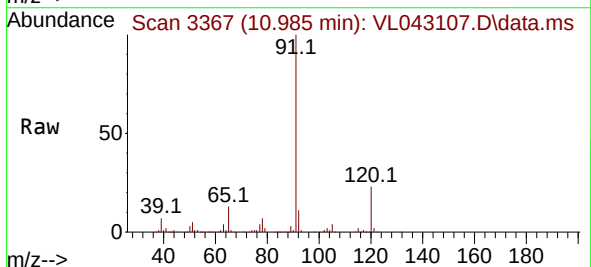
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

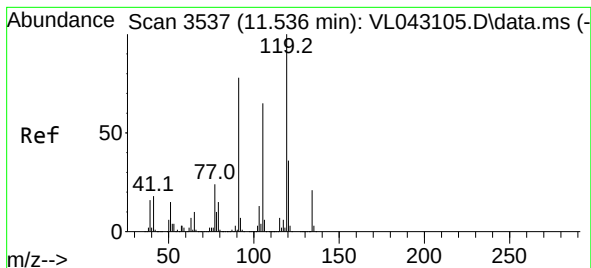
Tgt Ion: 83 Resp: 28230
Ion Ratio Lower Upper
83 100
131 9.8 4.8 14.3
85 64.3 32.0 96.0



#64
n-propylbenzene
Concen: 1.098 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 120 Resp: 21685
Ion Ratio Lower Upper
120 100
91 446.5 361.6 542.4

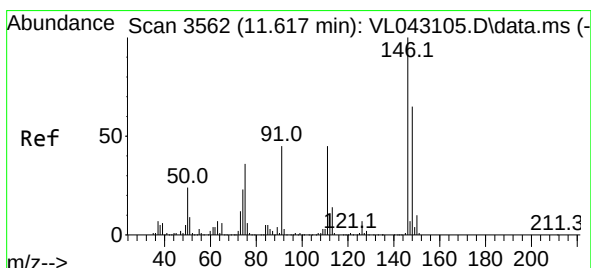
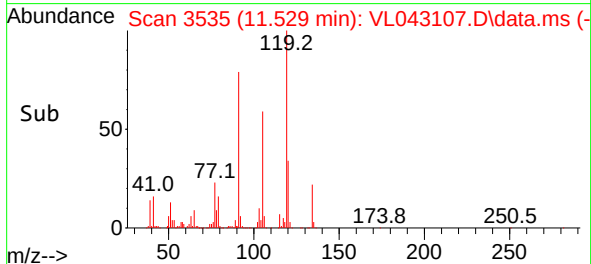
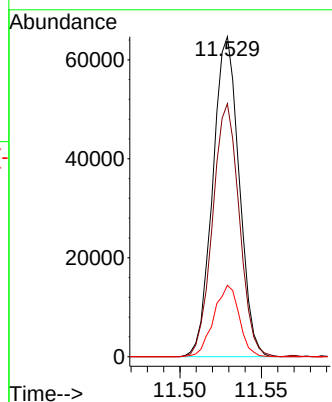
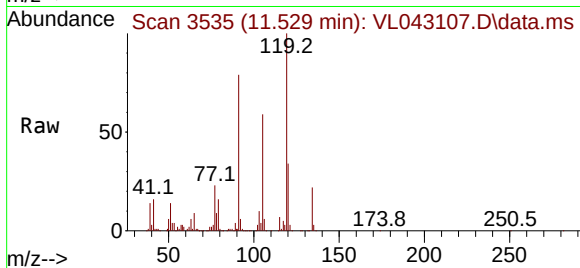




#65
tert-Butylbenzene
Concen: 1.105 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

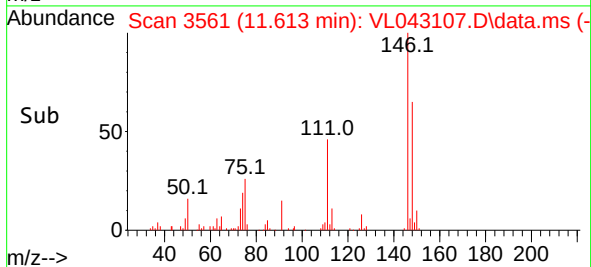
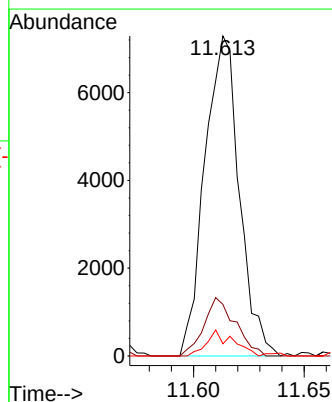
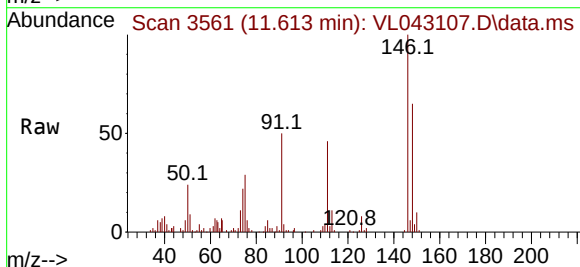
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

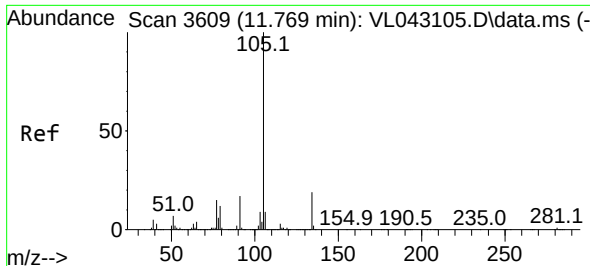
Tgt Ion:119 Resp: 72781
Ion Ratio Lower Upper
119 100
91 79.8 63.4 95.0
134 21.5 17.3 25.9



#66
Benzyl Chloride
Concen: 1.076 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 91 Resp: 7918
Ion Ratio Lower Upper
91 100
126 16.6 14.6 22.0
128 6.6 4.6 6.8

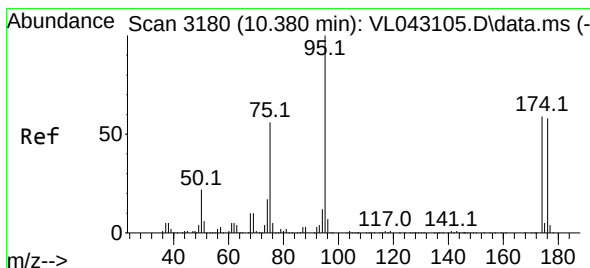
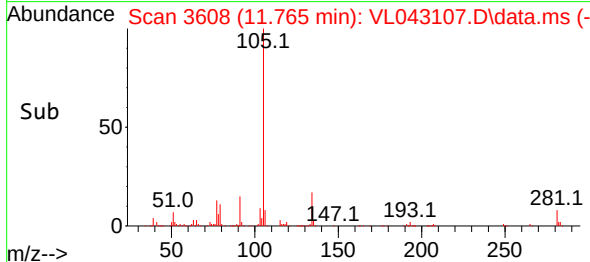
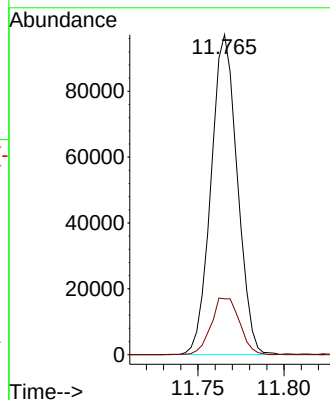
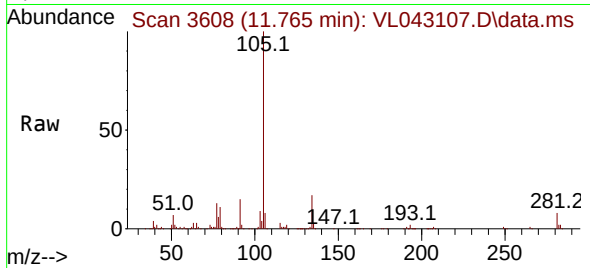




#67
 sec-Butylbenzene
 Concen: 1.103 ppbv
 RT: 11.765 min Scan# 3178
 Delta R.T. -0.003 min
 Lab File: VL043107.D
 Acq: 14 Oct 2025 12:01

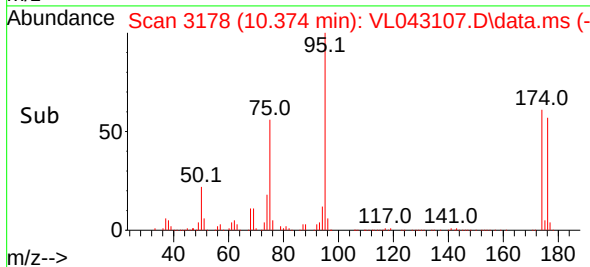
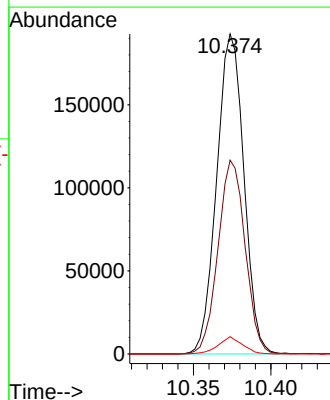
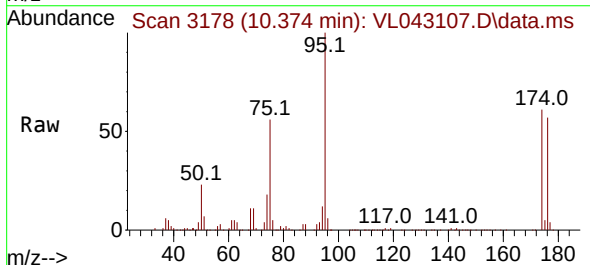
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

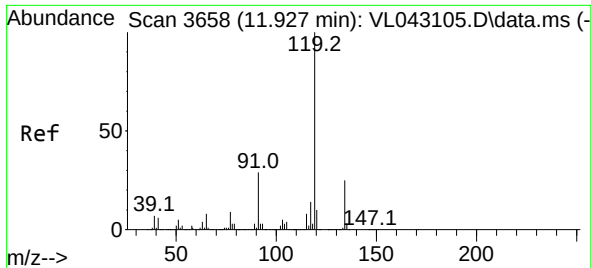
Tgt Ion:105 Resp: 103152
 Ion Ratio Lower Upper
 105 100
 134 19.2 15.5 23.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.912 ppbv
 RT: 10.374 min Scan# 3178
 Delta R.T. -0.007 min
 Lab File: VL043107.D
 Acq: 14 Oct 2025 12:01

Tgt Ion: 95 Resp: 235307
 Ion Ratio Lower Upper
 95 100
 174 60.3 48.3 72.5
 175 4.8 3.8 5.8

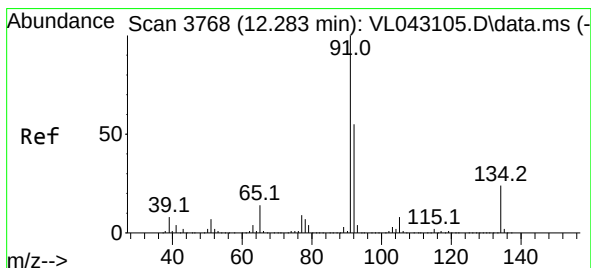
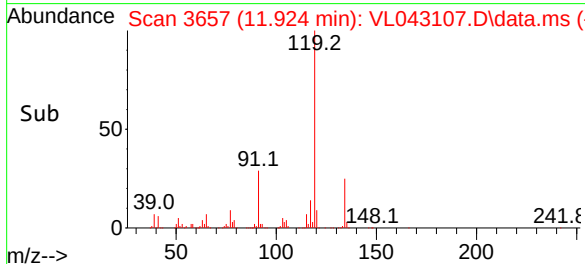
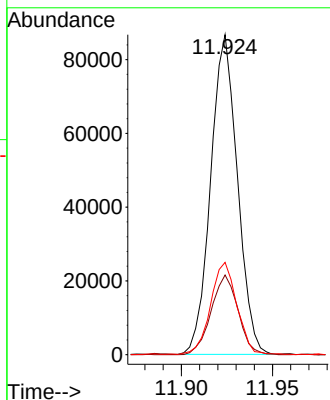
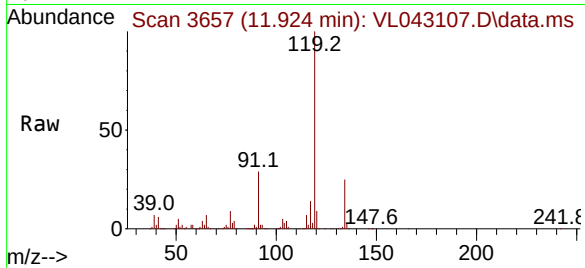




#69
p-Isopropyltoluene
Concen: 1.113 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

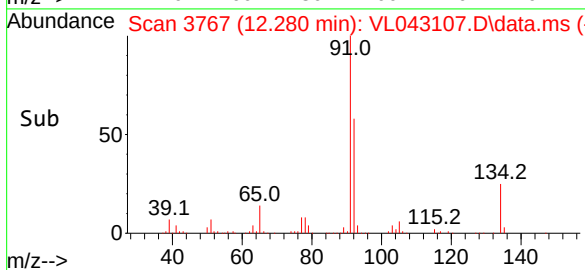
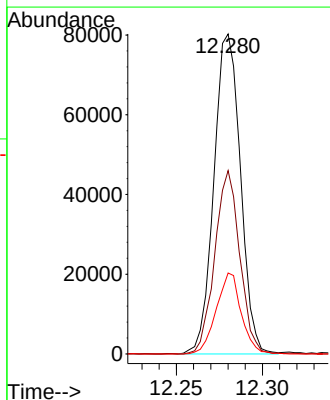
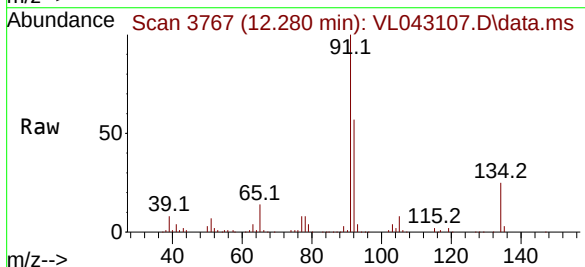
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

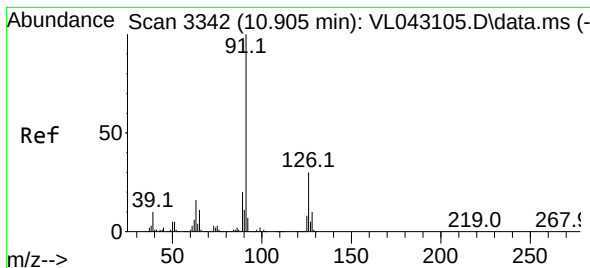
Tgt Ion:119 Resp: 88443
Ion Ratio Lower Upper
119 100
134 25.1 20.3 30.5
91 28.9 22.6 33.8



#70
n-Butylbenzene
Concen: 1.100 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 91 Resp: 86120
Ion Ratio Lower Upper
91 100
92 54.1 44.5 66.7
134 23.9 19.3 28.9

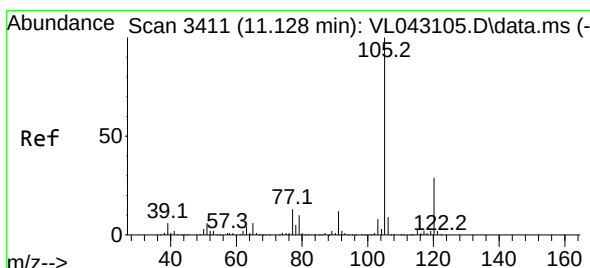
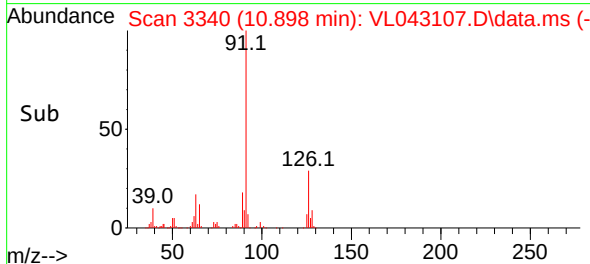
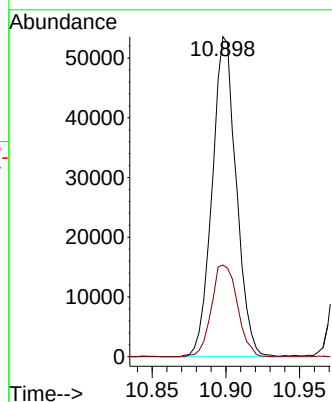
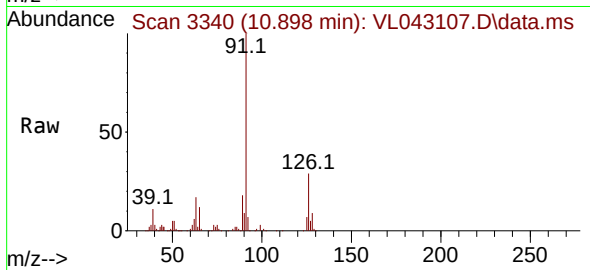




#71
2-Chlorotoluene
Concen: 1.072 ppbv
RT: 10.898 min Scan# 31
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

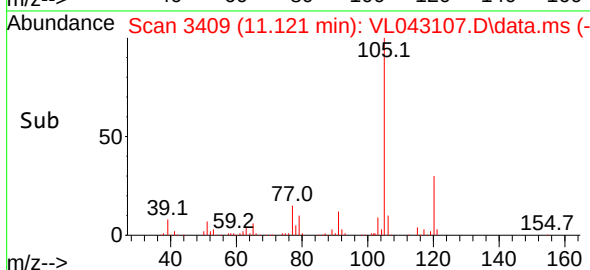
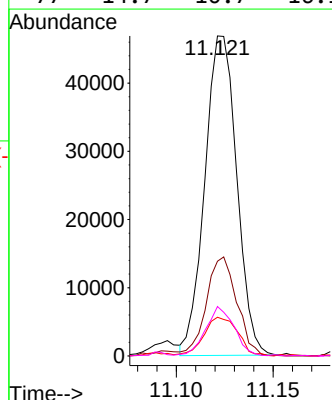
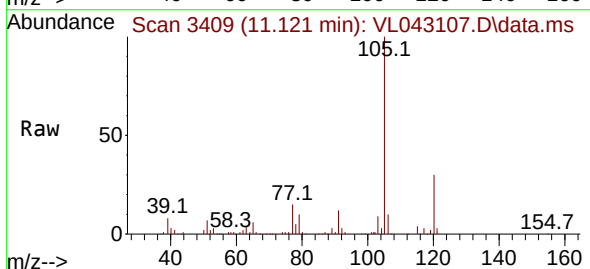
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

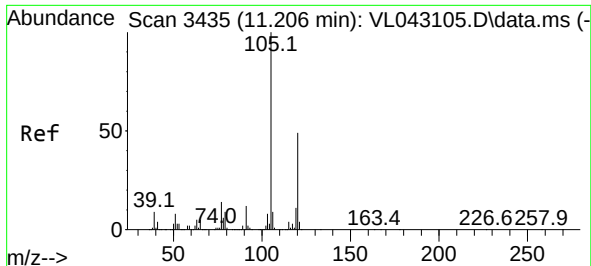
Tgt Ion: 91 Resp: 60994
Ion Ratio Lower Upper
91 100
126 30.8 12.0 48.0



#72
4-Ethyltoluene
Concen: 1.059 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion:105 Resp: 53788
Ion Ratio Lower Upper
105 100
120 31.0 24.2 36.4
91 14.0 10.0 15.0
77 14.7 10.7 16.1

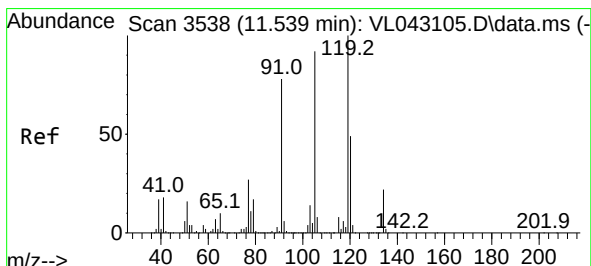
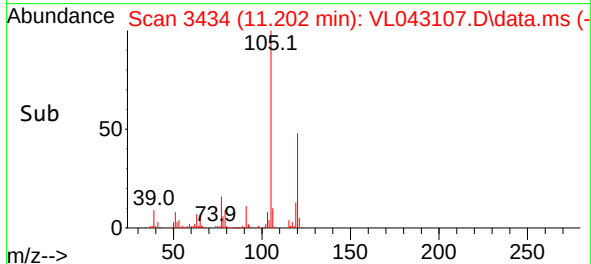
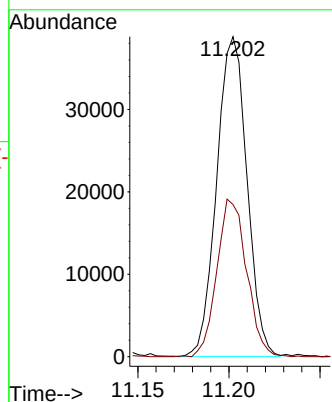
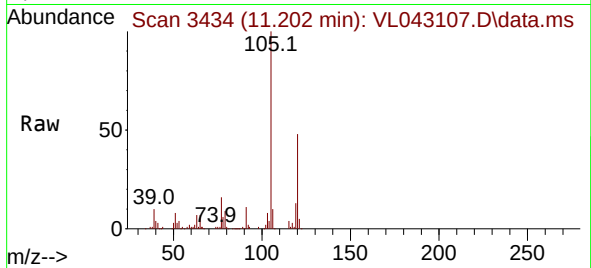




#73
 1,3,5-Trimethylbenzene
 Concen: 1.070 ppbv
 RT: 11.202 min Scan# 3434
 Delta R.T. -0.003 min
 Lab File: VL043107.D
 Acq: 14 Oct 2025 12:01

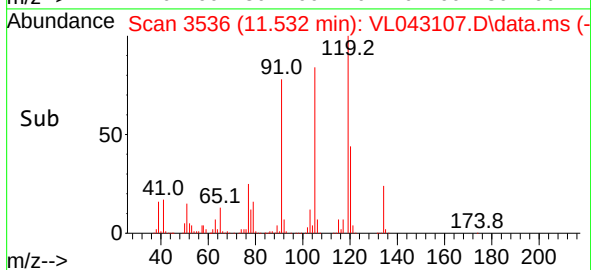
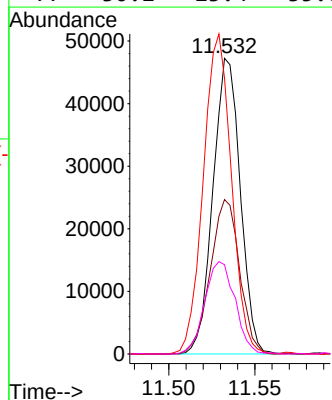
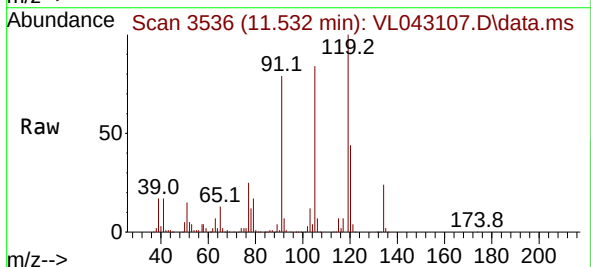
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

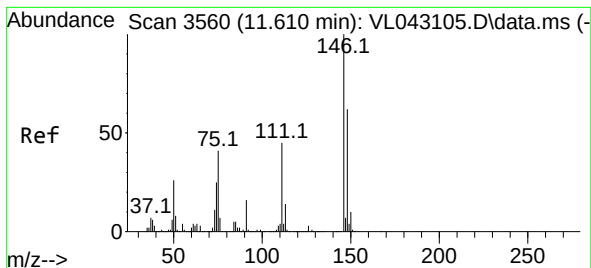
Tgt Ion:105 Resp: 44786
 Ion Ratio Lower Upper
 105 100
 120 47.3 39.0 58.6



#74
 1,2,4-Trimethylbenzene
 Concen: 1.112 ppbv
 RT: 11.532 min Scan# 3536
 Delta R.T. -0.007 min
 Lab File: VL043107.D
 Acq: 14 Oct 2025 12:01

Tgt Ion:105 Resp: 52118
 Ion Ratio Lower Upper
 105 100
 120 52.2 42.8 64.2
 91 93.1 68.3 102.5
 77 30.2 23.4 35.0





#75

1,3-Dichlorobenzene

Concen: 1.074 ppbv

RT: 11.604 min Scan# 3558

Delta R.T. -0.007 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC001

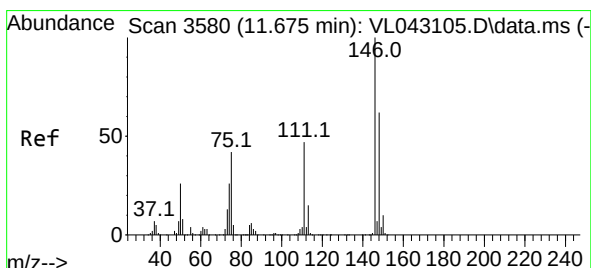
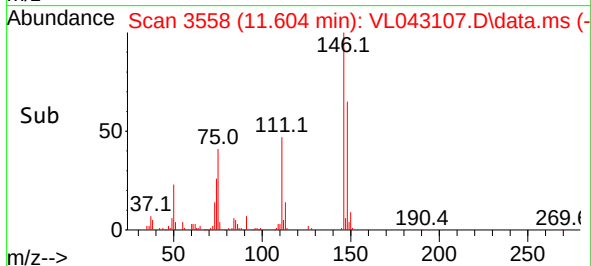
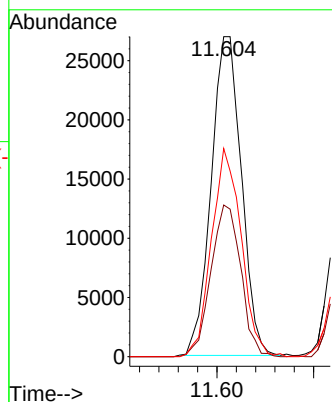
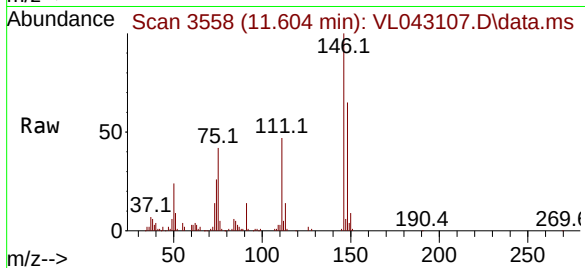
Tgt Ion:146 Resp: 29186

Ion Ratio Lower Upper

146 100

111 47.0 23.3 69.9

148 64.0 31.6 95.0



#76

1,4-Dichlorobenzene

Concen: 1.066 ppbv

RT: 11.668 min Scan# 3578

Delta R.T. -0.007 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

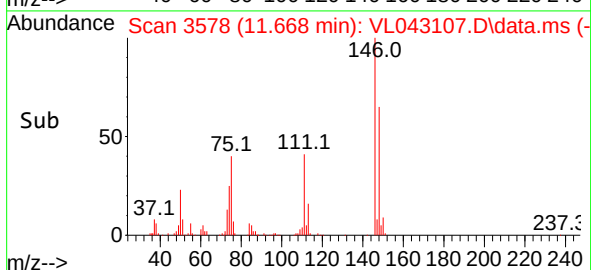
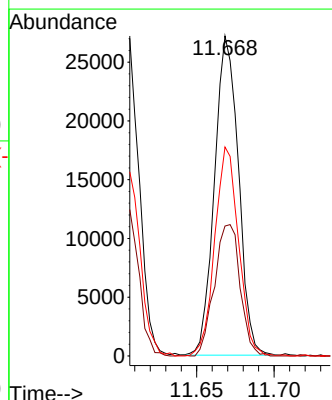
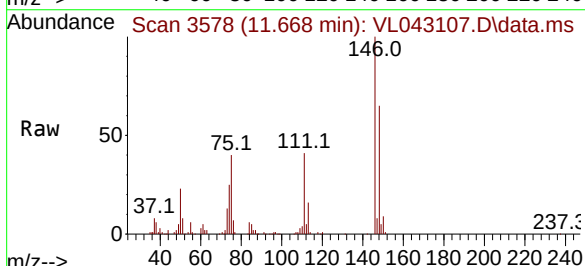
Tgt Ion:146 Resp: 29225

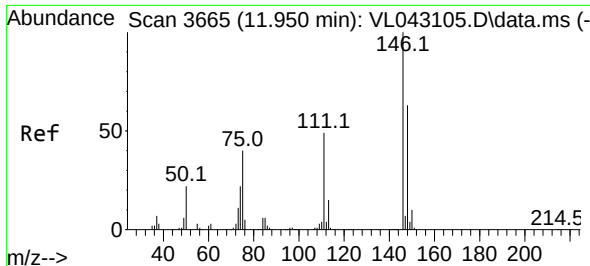
Ion Ratio Lower Upper

146 100

111 44.2 22.4 67.0

148 65.0 31.6 94.7

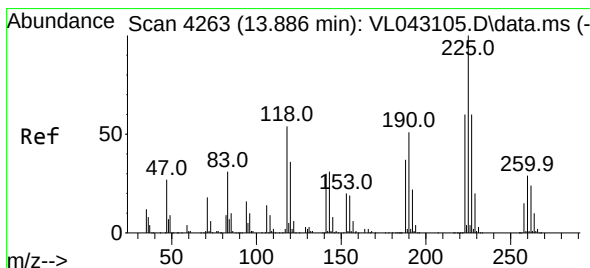
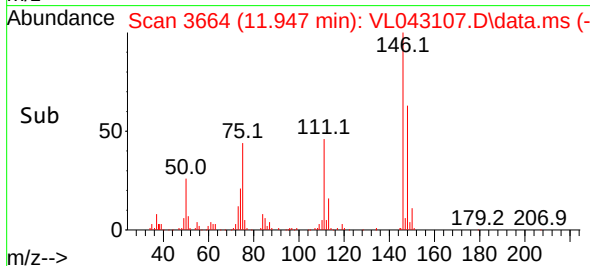
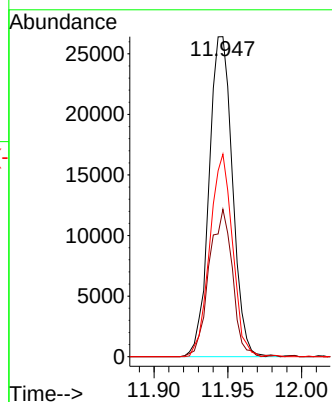
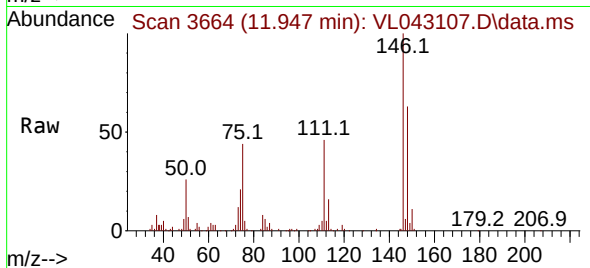




#77
1,2-Dichlorobenzene
Concen: 1.109 ppbv
RT: 11.947 min Scan# 3664
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

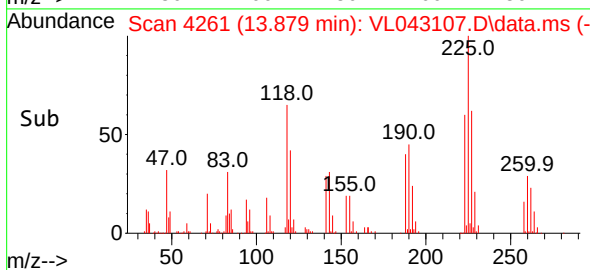
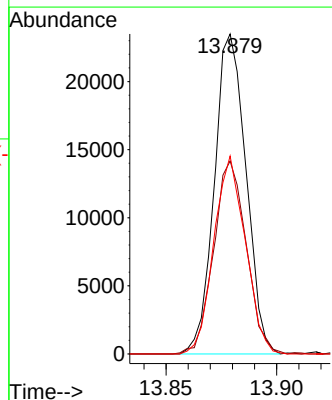
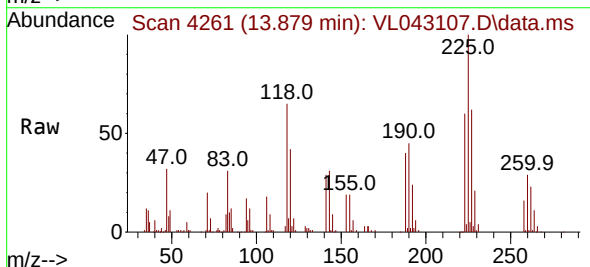
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

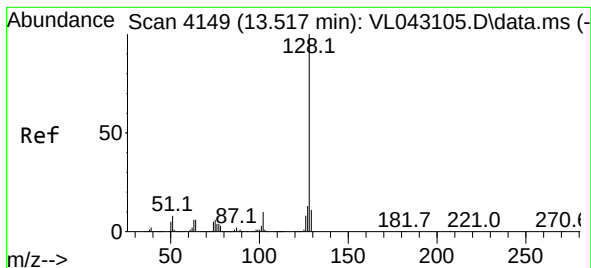
Tgt Ion:146 Resp: 29146
Ion Ratio Lower Upper
146 100
111 45.8 24.0 72.0
148 61.5 31.1 93.3



#78
Hexachloro-1,3-Butadiene
Concen: 1.146 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion:225 Resp: 23330
Ion Ratio Lower Upper
225 100
223 62.4 50.2 75.4
227 61.6 49.6 74.4





#79

Naphthalene

Concen: 1.114 ppbv

RT: 13.510 min Scan# 4149

Delta R.T. -0.007 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

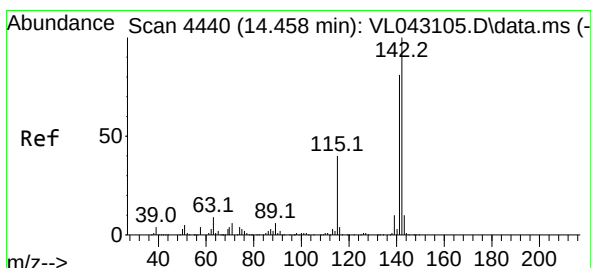
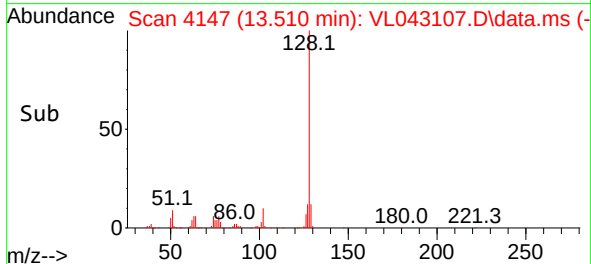
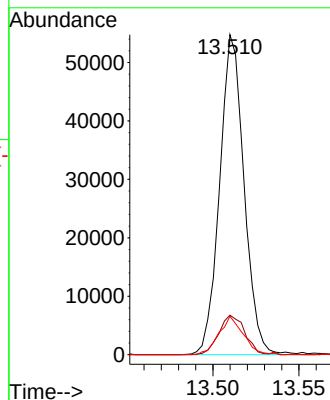
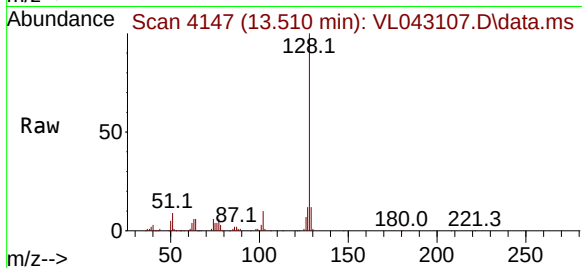
Tgt Ion:128 Resp: 53930

Ion Ratio Lower Upper

128 100

127 12.4 10.5 15.7

129 12.0 9.1 13.7



#80

Naphthalene,2-methyl-

Concen: 0.849 ppbv

RT: 14.458 min Scan# 4440

Delta R.T. -0.000 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

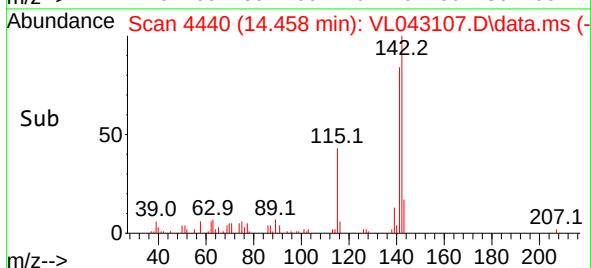
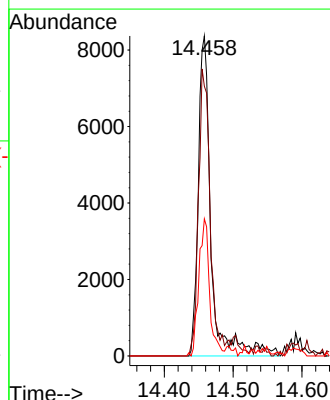
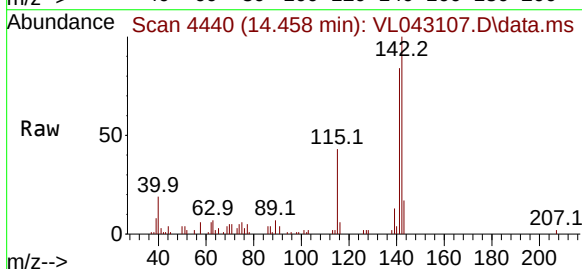
Tgt Ion:142 Resp: 10851

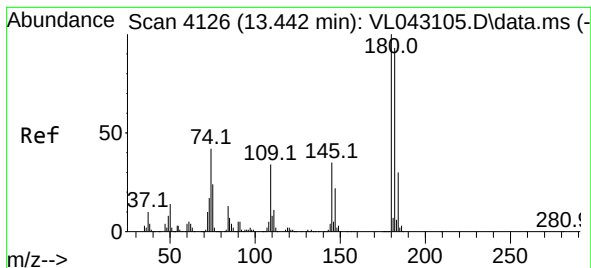
Ion Ratio Lower Upper

142 100

141 88.9 64.6 97.0

115 38.1 30.2 45.4





#81

1,2,4-Trichlorobenzene

Concen: 1.090 ppbv

RT: 13.439 min Scan# 41

Delta R.T. -0.003 min

Lab File: VL043107.D

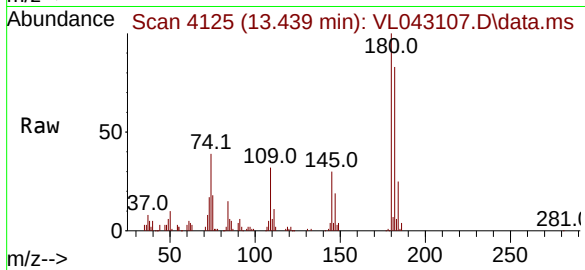
Acq: 14 Oct 2025 12:01

Instrument :

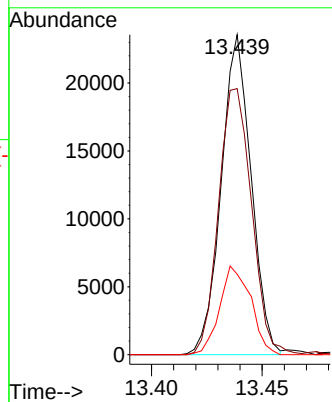
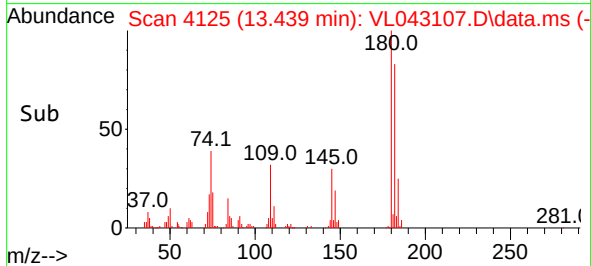
MSVOA_L

ClientSampleId :

VSTDIC001



Tgt Ion:	180	Resp:	22161
Ion Ratio	Lower	Upper	
180	100		
182	92.5	75.5	113.3
184	28.8	23.9	35.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
 Data File : VL043108.D
 Acq On : 14 Oct 2025 12:34
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Quant Time: Oct 15 01:53:33 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 01:49:43 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	101636	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	336188	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	303445	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	232904	9.875	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.700%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	7851	0.543	ppbv	98
3) Chlorodifluoromethane	1.479	51	8497	0.543	ppbv #	89
4) Chloromethane	1.534	50	3254	0.568	ppbv #	88
5) Vinyl Chloride	1.583	62	2857	0.509	ppbv	96
6) Bromomethane	1.670	94	1709	0.555	ppbv	100
7) Chloroethane	1.706	64	1326	0.578	ppbv #	85
8) Dichlorotetrafluoroethane	1.557	85	5970	0.511	ppbv	92
9) Propene	1.486	41	3750	0.541	ppbv	92
10) Heptane	4.981	43	6039	0.304	ppbv #	27
11) Trichlorofluoromethane	1.881	101	7672	0.543	ppbv	92
12) 1,1,2-Trichlorotrifluo...	2.143	101	6173	0.543	ppbv	100
13) Ethanol	1.725	45	1468	0.572	ppbv	86
14) Bromoethene	1.787	108	2444	0.578	ppbv #	90
15) Acetone	1.839	43	7931	0.576	ppbv #	88
16) 1,3-Butadiene	1.612	39	3962	0.607	ppbv	91
17) tert-Butyl alcohol	2.046	59	10213	0.543	ppbv #	88
18) 1,1-Dichloroethene	2.039	96	2636	0.531	ppbv	91
19) Isopropyl Alcohol	1.887	45	4932	0.578	ppbv #	43
20) Methylene Chloride	2.065	84	3750	0.693	ppbv #	75
21) Allyl Chloride	2.098	41	5575	0.551	ppbv	98
22) trans-1,2-Dichloroethene	2.344	96	3093	0.522	ppbv	98
23) Vinyl Acetate	2.467	43	10914	0.544	ppbv #	96
24) 1,1-Dichloroethane	2.412	63	5942	0.519	ppbv	99
25) Ethyl Acetate	2.845	43	17918	0.527	ppbv #	96
26) Hexane	2.829	57	8908	0.569	ppbv	95
27) Carbon Disulfide	2.153	76	7230	0.504	ppbv #	1
28) Methyl tert-Butyl Ether	2.444	73	3770	0.529	ppbv #	47
29) Chloroform	2.852	83	12384	0.546	ppbv	100
30) Cyclohexane	3.862	84	6978	0.511	ppbv #	88
31) cis-1,2-Dichloroethene	2.725	61	7576	0.507	ppbv #	88
32) 1,1,1-Trichloroethane	3.373	97	12234	0.518	ppbv	97
34) 2-Butanone	2.564	43	12659	0.557	ppbv	99
35) Carbon Tetrachloride	3.768	117	11931	0.494	ppbv	87
36) Benzene	3.661	78	16376	0.517	ppbv	94
37) 1,2-Dichloroethane	3.224	62	9907	0.543	ppbv	99
38) Trichloroethene	4.554	130	6745	0.511	ppbv	95
39) 1,2-Dichloropropane	4.318	63	6032	0.521	ppbv #	80
40) 1,4-Dioxane	4.603	88	1303	0.252	ppbv #	33
41) Tetrahydrofuran	3.065	42	6831	0.538	ppbv	97
42) Bromodichloromethane	4.496	83	13094	0.519	ppbv	96
43) Methyl Methacrylate	4.888	69	4902	0.303	ppbv #	1
44) 2,2,4-Trimethylpentane	4.648	57	27304	0.516	ppbv	98
45) t-1,3-Dichloropropene	6.425	75	8030	0.498	ppbv	94

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
 Data File : VL043108.D
 Acq On : 14 Oct 2025 12:34
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

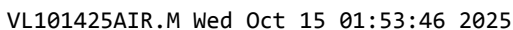
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

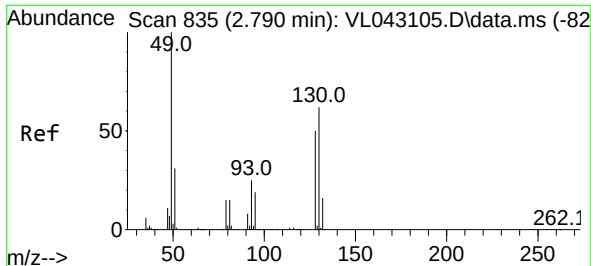
Quant Time: Oct 15 01:53:33 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 01:49:43 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	8375	0.435	ppbv #	88
47) 1,1,2-Trichloroethane	6.587	97	6996	0.560	ppbv	92
48) Dibromochloromethane	7.393	129	10413	0.498	ppbv	96
49) Bromoform	9.487	173	8455	0.498	ppbv	96
50) 4-Methyl-2-Pentanone	5.755	43	3434	0.110	ppbv #	38
51) 2-Hexanone	7.451	43	11485	0.491	ppbv #	94
52) Tetrachloroethene	8.231	164	5863	0.513	ppbv #	90
53) Toluene	6.936	91	20380	0.542	ppbv	99
54) 1,2-Dibromoethane	7.661	107	9586	0.486	ppbv	90
56) 1,1,1,2-Tetrachloroethane	8.930	131	10044	0.525	ppbv #	1
57) Chlorobenzene	8.927	112	15318	0.540	ppbv	95
58) Ethyl Benzene	9.357	91	27330	0.521	ppbv	91
59) m/p-Xylene	9.539	91	20079	0.483	ppbv #	15
60) o-Xylene	9.969	91	21745	0.530	ppbv	96
61) Styrene	9.878	104	9052	0.489	ppbv	96
62) Isopropylbenzene	10.542	105	38899	0.525	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.966	83	13653	0.497	ppbv	97
64) n-propylbenzene	10.992	120	10435	0.532	ppbv	99
65) tert-Butylbenzene	11.532	119	35537	0.543	ppbv	99
66) Benzyl Chloride	11.620	91	3477	0.476	ppbv #	97
67) sec-Butylbenzene	11.769	105	50259	0.541	ppbv	100
69) p-Isopropyltoluene	11.927	119	41366	0.524	ppbv	99
70) n-Butylbenzene	12.283	91	39620	0.509	ppbv	98
71) 2-Chlorotoluene	10.901	91	29722	0.526	ppbv	98
72) 4-Ethyltoluene	11.128	105	26408	0.524	ppbv	98
73) 1,3,5-Trimethylbenzene	11.209	105	21754	0.523	ppbv	89
74) 1,2,4-Trimethylbenzene	11.539	105	25663	0.551	ppbv	93
75) 1,3-Dichlorobenzene	11.610	146	13697	0.507	ppbv	95
76) 1,4-Dichlorobenzene	11.675	146	14514	0.533	ppbv	99
77) 1,2-Dichlorobenzene	11.950	146	14324	0.548	ppbv	98
78) Hexachloro-1,3-Butadiene	13.885	225	11400	0.564	ppbv	98
79) Naphthalene	13.516	128	23247	0.483	ppbv #	94
80) Naphthalene,2-methyl-	14.462	142	3874	0.305	ppbv #	84
81) 1,2,4-Trichlorobenzene	13.442	180	8395	0.416	ppbv	98

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

Quant Time: Oct 15 01:53:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 01:49:43 2025
Response via : Initial Calibration

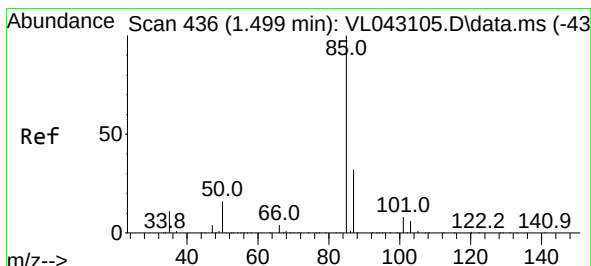
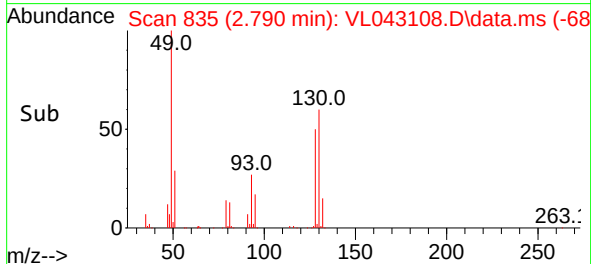
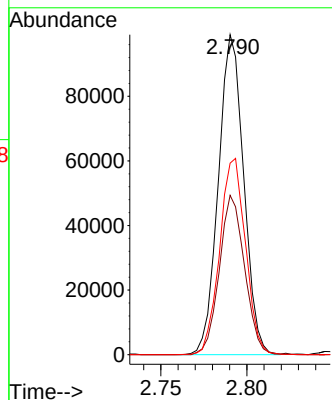
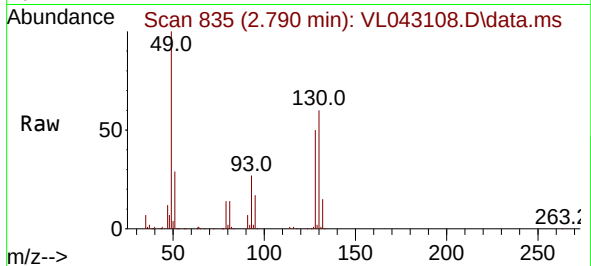




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

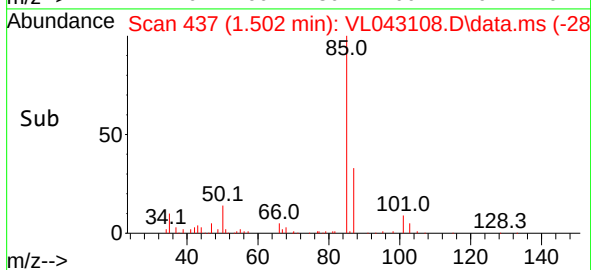
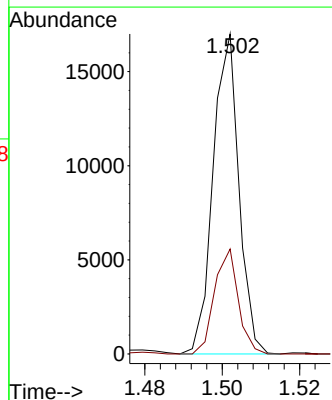
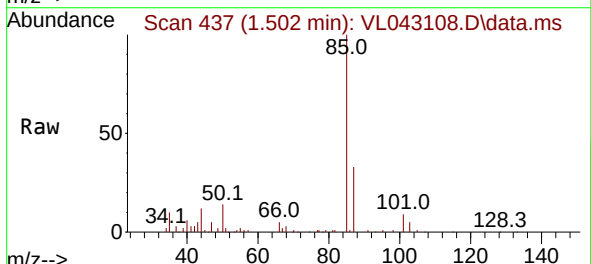
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

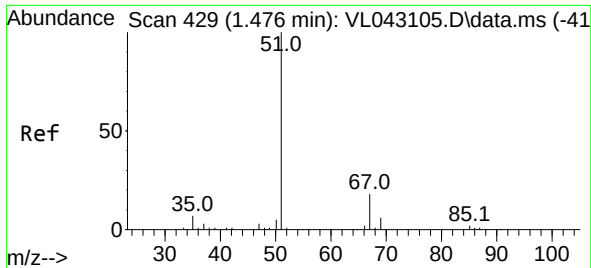
Tgt Ion: 49 Resp: 101636
Ion Ratio Lower Upper
49 100
128 49.5 24.4 73.4
130 62.5 31.0 93.0



#2
Dichlorodifluoromethane
Concen: 0.543 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 85 Resp: 7851
Ion Ratio Lower Upper
85 100
87 32.8 25.3 37.9

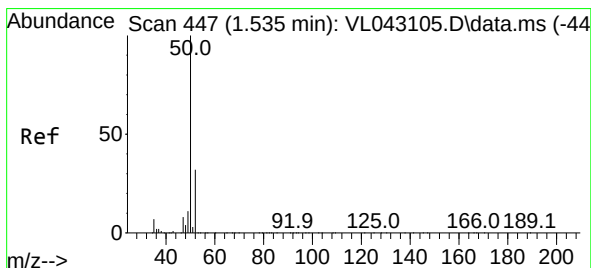
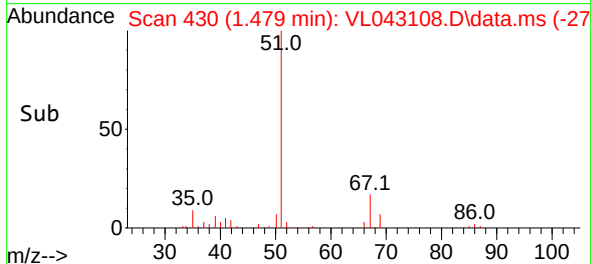
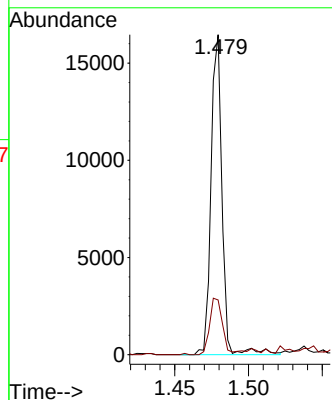
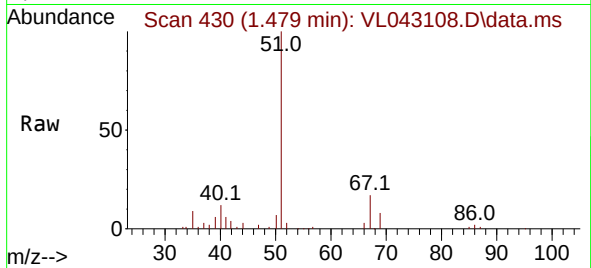




#3
Chlorodifluoromethane
Concen: 0.543 ppbv
RT: 1.479 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

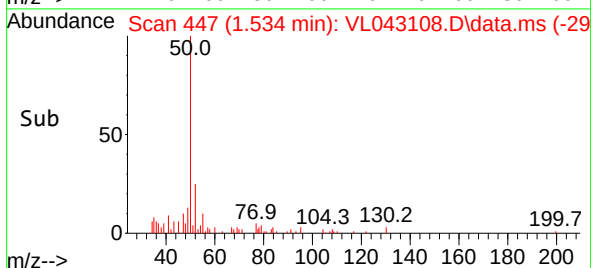
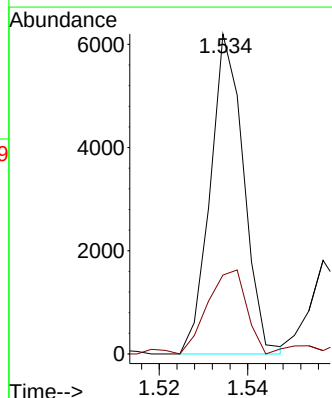
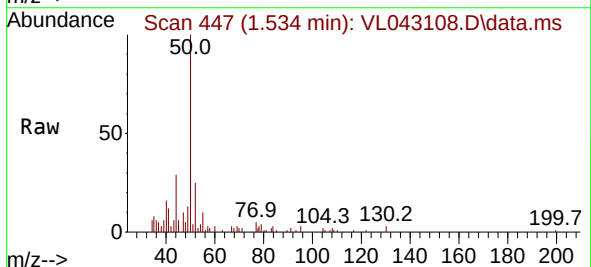
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

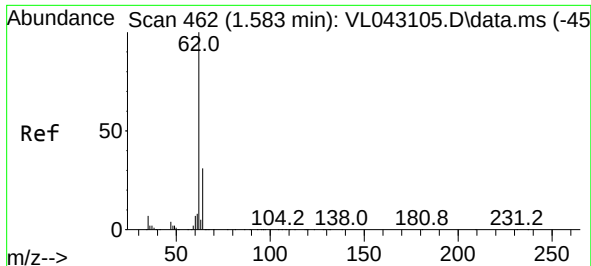
Tgt Ion: 51 Resp: 8497
Ion Ratio Lower Upper
51 100
67 23.8 15.1 22.7#



#4
Chloromethane
Concen: 0.568 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 50 Resp: 3254
Ion Ratio Lower Upper
50 100
52 24.7 25.2 37.8#

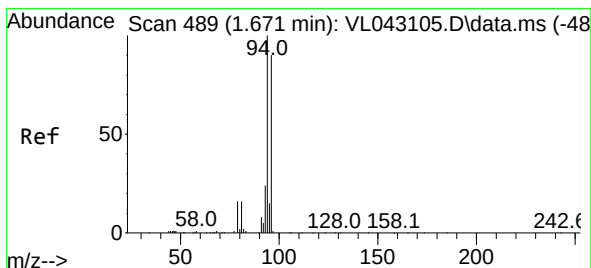
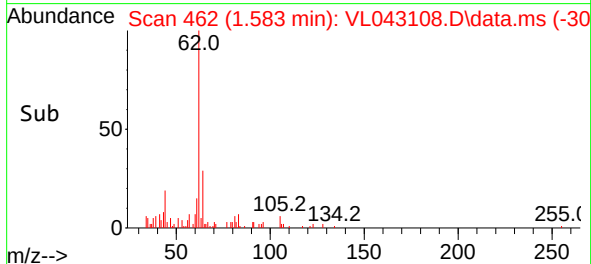
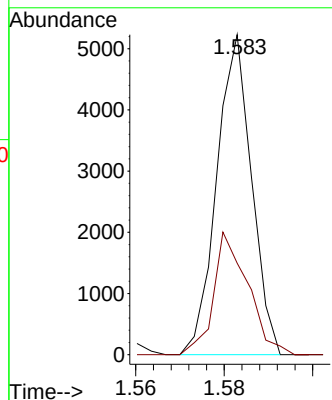
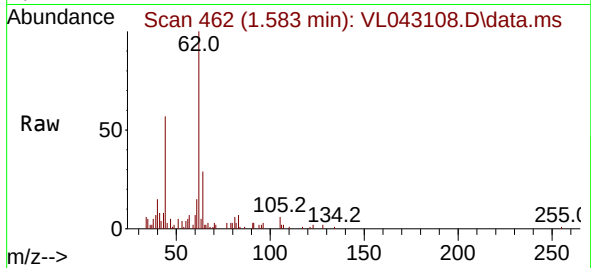




#5
 Vinyl Chloride
 Concen: 0.509 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. -0.000 min
 Lab File: VL043108.D
 Acq: 14 Oct 2025 12:34

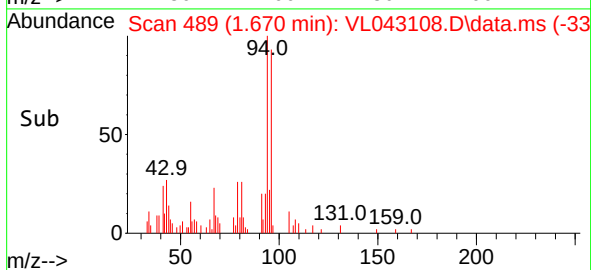
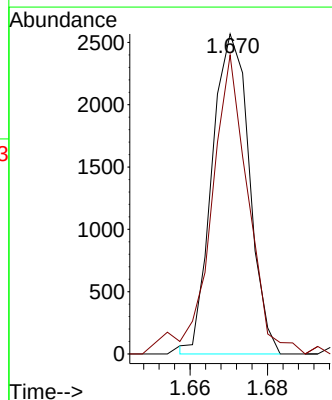
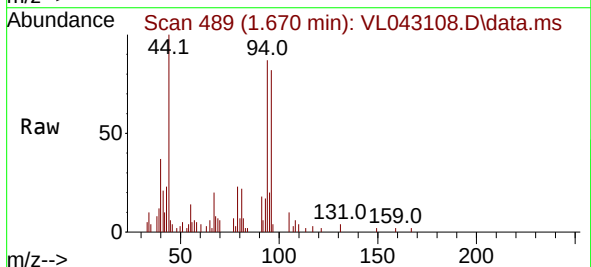
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

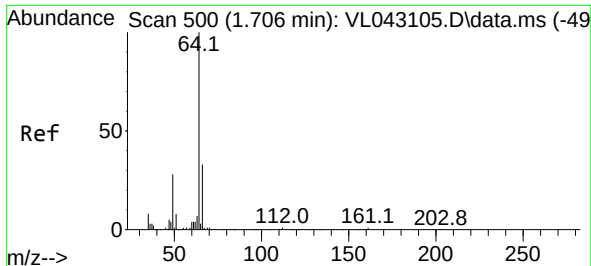
Tgt Ion: 62 Resp: 2857
 Ion Ratio Lower Upper
 62 100
 64 28.6 24.6 36.8



#6
 Bromomethane
 Concen: 0.555 ppbv
 RT: 1.670 min Scan# 489
 Delta R.T. -0.000 min
 Lab File: VL043108.D
 Acq: 14 Oct 2025 12:34

Tgt Ion: 94 Resp: 1709
 Ion Ratio Lower Upper
 94 100
 96 89.9 72.2 108.4

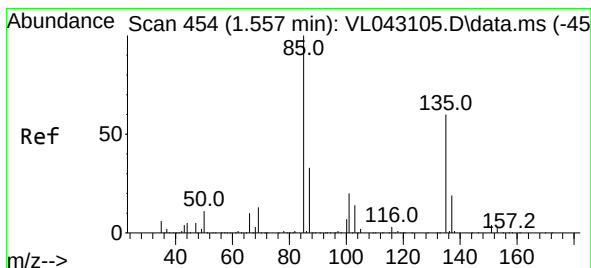
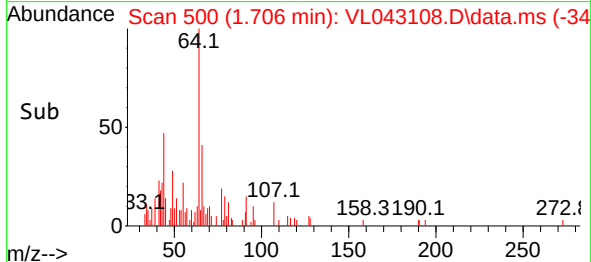
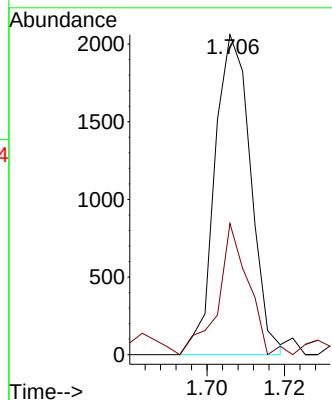
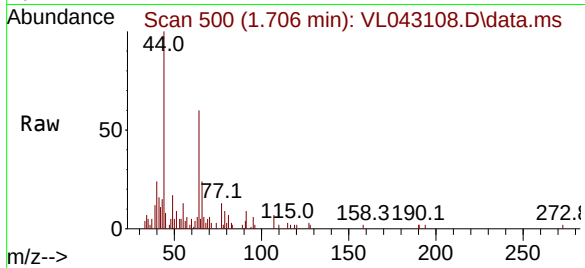




#7
Chloroethane
Concen: 0.578 ppbv
RT: 1.706 min Scan# 500
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

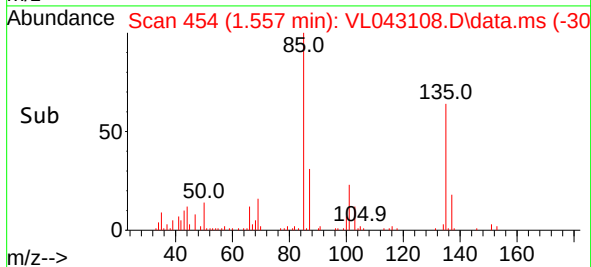
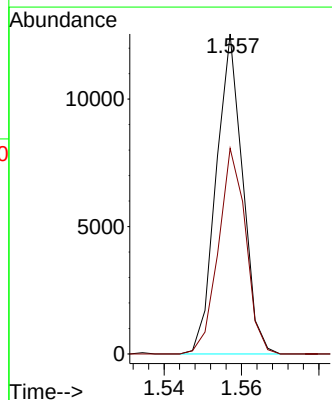
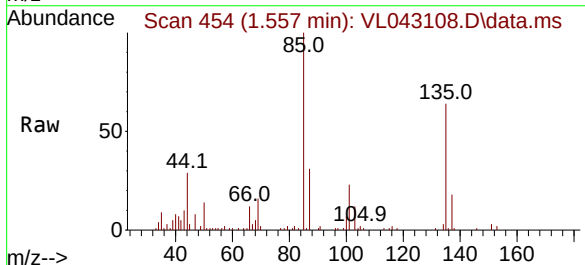
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

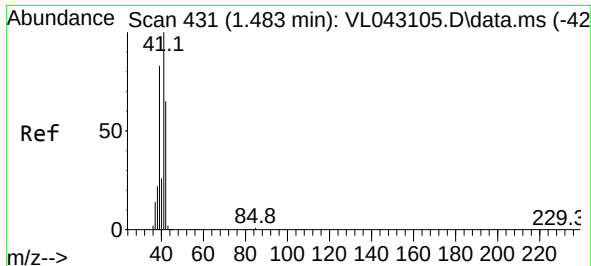
Tgt Ion: 64 Resp: 1326
Ion Ratio Lower Upper
64 100
66 41.0 26.0 39.0#



#8
Dichlorotetrafluoroethane
Concen: 0.511 ppbv
RT: 1.557 min Scan# 454
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 85 Resp: 5970
Ion Ratio Lower Upper
85 100
135 66.3 48.2 72.4





#9

Propene

Concen: 0.541 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Instrument :

MSVOA_1

ClientSampleId :

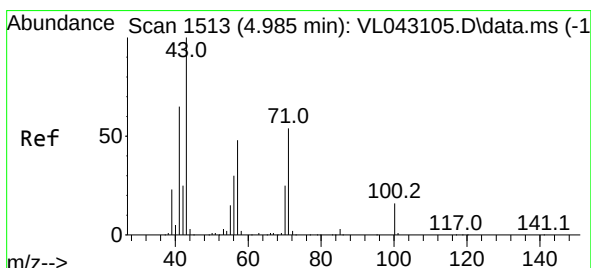
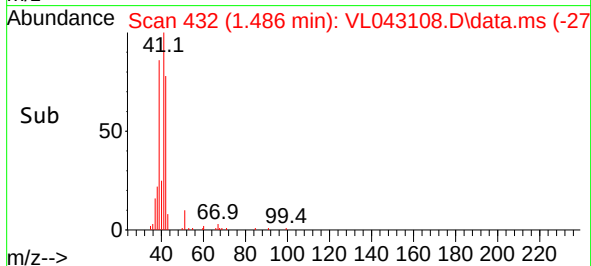
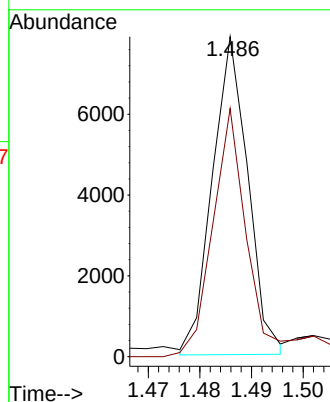
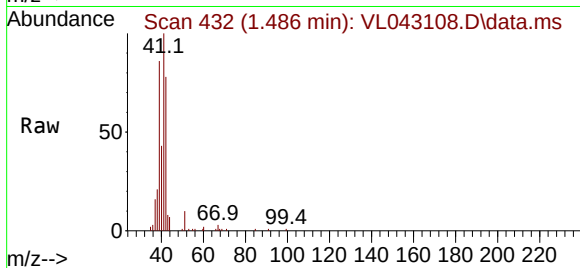
VSTDIC0.5

Tgt Ion: 41 Resp: 3750

Ion Ratio Lower Upper

41 100

42 75.0 55.1 82.7



#10

Heptane

Concen: 0.304 ppbv

RT: 4.981 min Scan# 1512

Delta R.T. -0.003 min

Lab File: VL043108.D

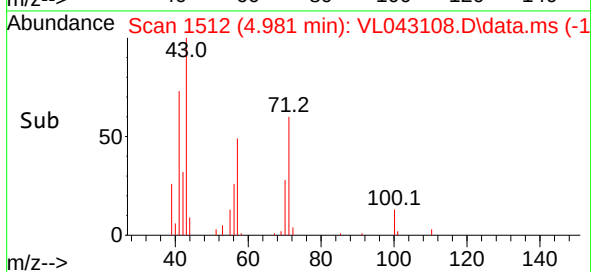
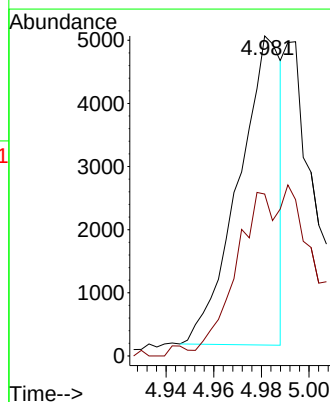
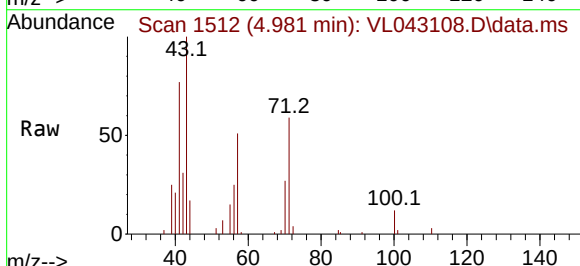
Acq: 14 Oct 2025 12:34

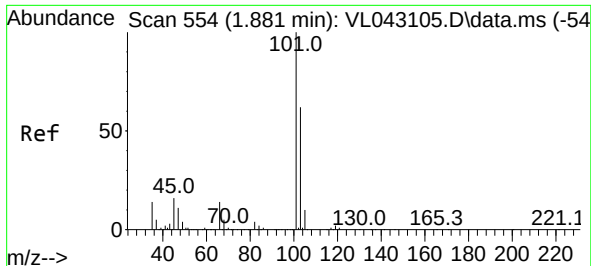
Tgt Ion: 43 Resp: 6039

Ion Ratio Lower Upper

43 100

57 0.0 40.8 61.2#

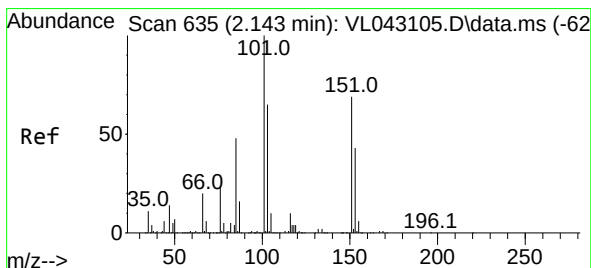
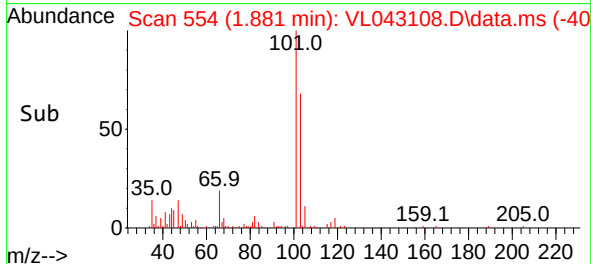
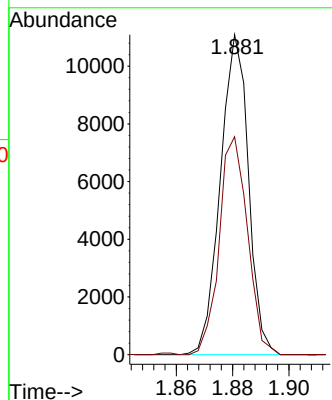
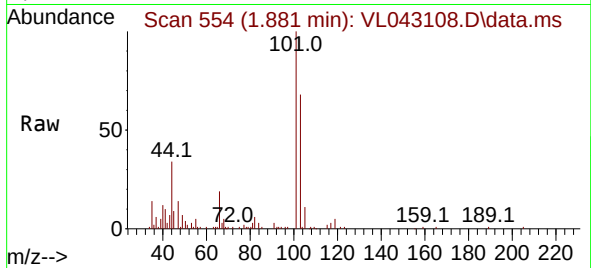




#11
 Trichlorofluoromethane
 Concen: 0.543 ppbv
 RT: 1.881 min Scan# 511
 Delta R.T. -0.000 min
 Lab File: VL043108.D
 Acq: 14 Oct 2025 12:34

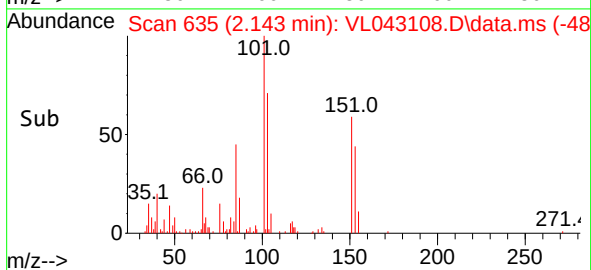
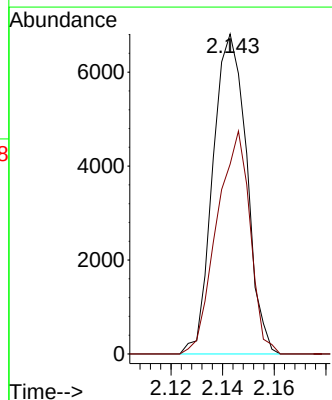
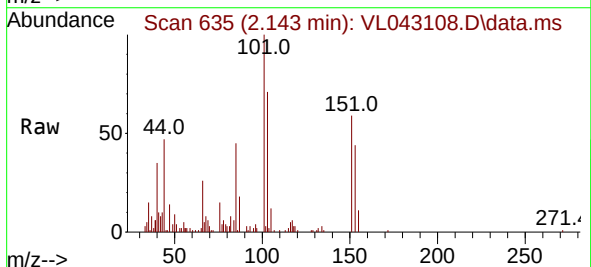
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

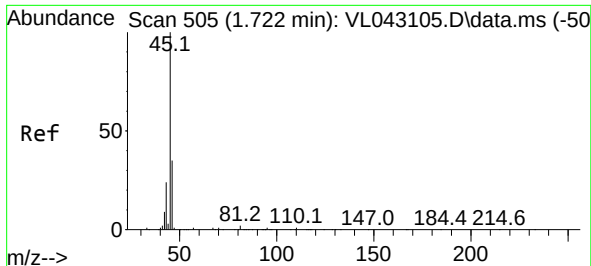
Tgt Ion:101 Resp: 7672
 Ion Ratio Lower Upper
 101 100
 103 68.1 49.3 73.9



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.543 ppbv
 RT: 2.143 min Scan# 635
 Delta R.T. -0.000 min
 Lab File: VL043108.D
 Acq: 14 Oct 2025 12:34

Tgt Ion:101 Resp: 6173
 Ion Ratio Lower Upper
 101 100
 151 68.8 54.7 82.1

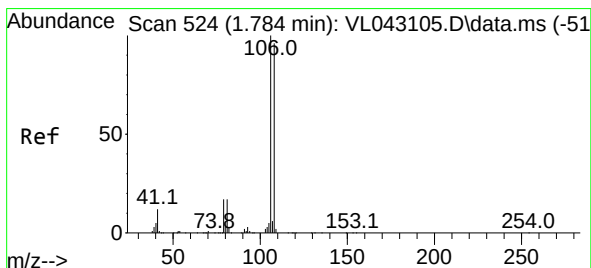
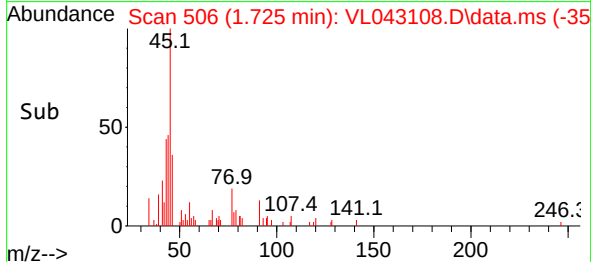
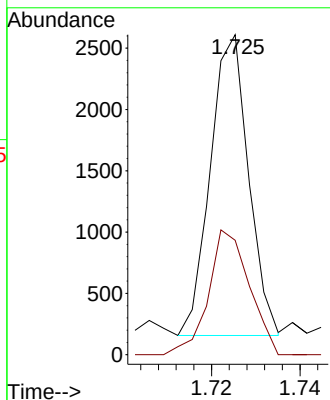
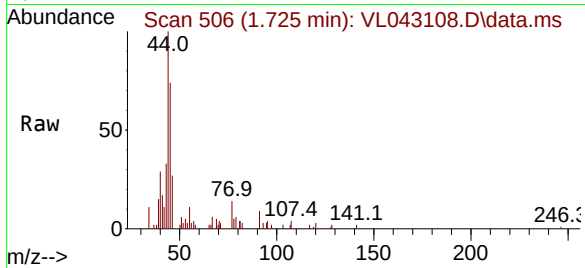




#13
Ethanol
Concen: 0.572 ppbv
RT: 1.725 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

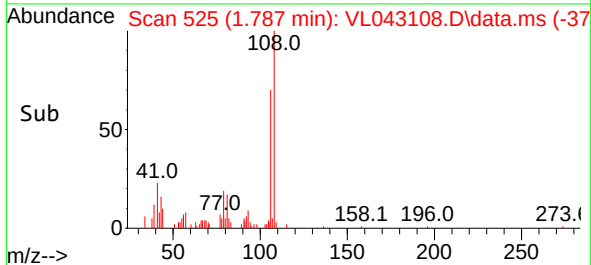
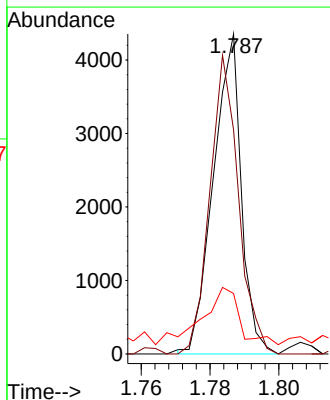
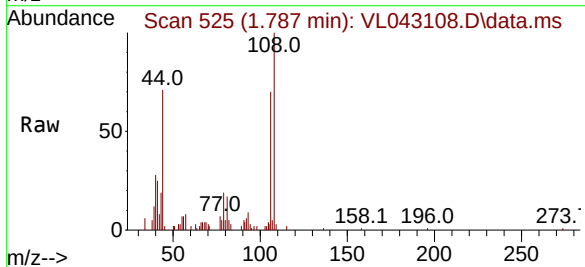
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

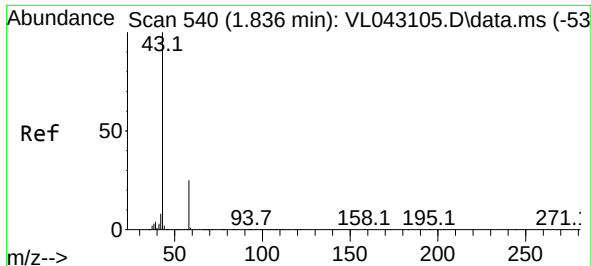
Tgt Ion: 45 Resp: 1468
Ion Ratio Lower Upper
45 100
46 45.1 14.7 58.9



#14
Bromoethene
Concen: 0.578 ppbv
RT: 1.787 min Scan# 525
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 108 Resp: 2444
Ion Ratio Lower Upper
108 100
106 98.2 84.4 126.6
79 31.2 15.3 22.9#

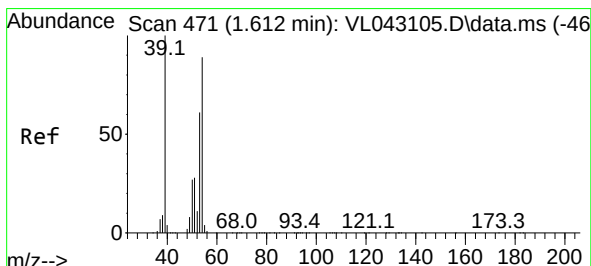
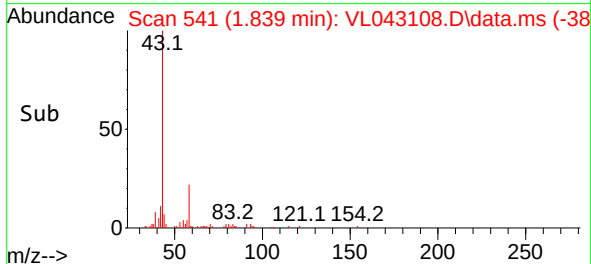
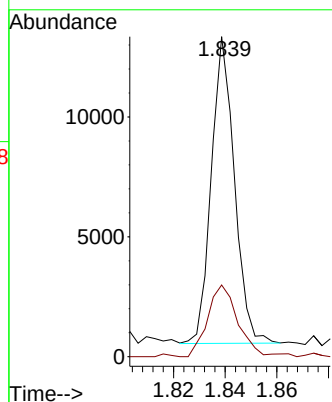
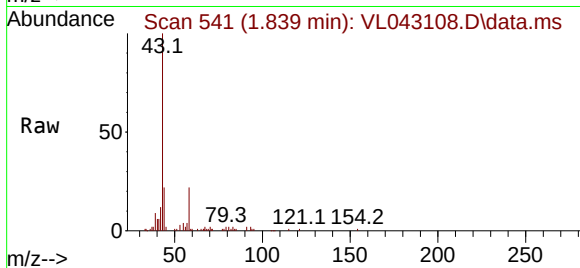




#15
Acetone
Concen: 0.576 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

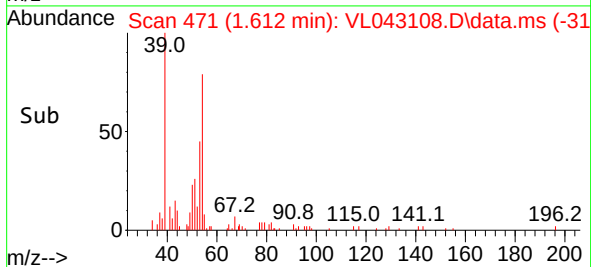
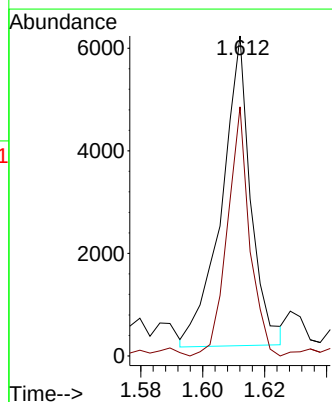
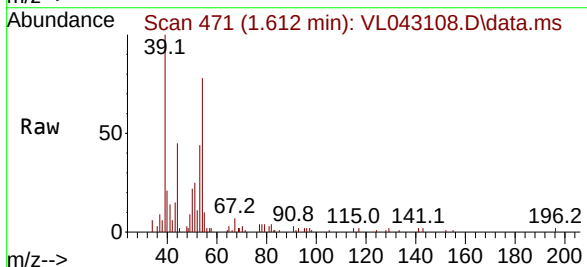
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

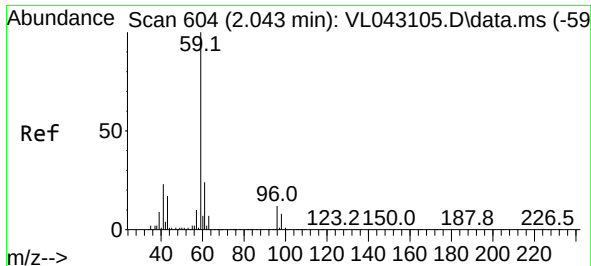
Tgt Ion: 43 Resp: 7931
Ion Ratio Lower Upper
43 100
58 32.0 20.8 31.2#



#16
1,3-Butadiene
Concen: 0.607 ppbv
RT: 1.612 min Scan# 471
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 39 Resp: 3962
Ion Ratio Lower Upper
39 100
54 66.1 59.0 88.4





#17

tert-Butyl alcohol

Concen: 0.543 ppbv

RT: 2.046 min Scan# 604

Delta R.T. 0.003 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Instrument :

MSVOA_L

ClientSampleId :

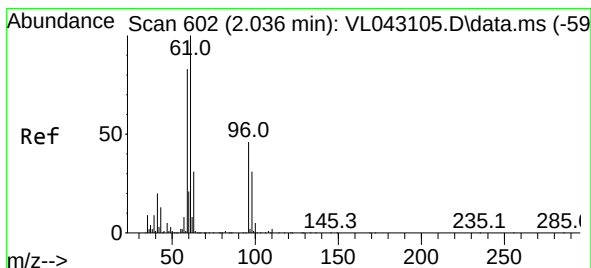
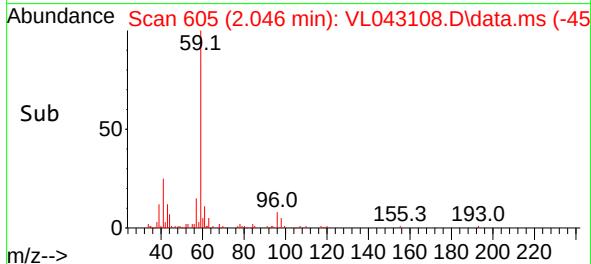
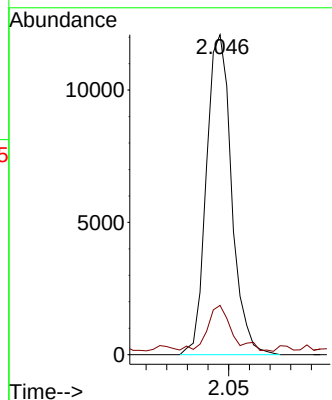
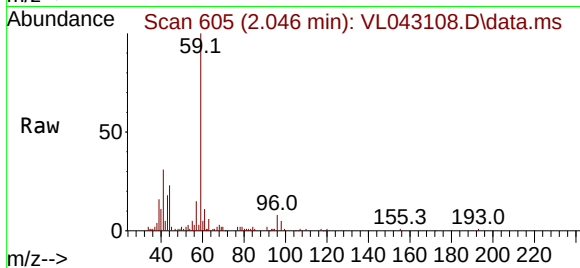
VSTDIC0.5

Tgt Ion: 59 Resp: 10213

Ion Ratio Lower Upper

59 100

57 14.8 8.2 12.4#



#18

1,1-Dichloroethene

Concen: 0.531 ppbv

RT: 2.039 min Scan# 603

Delta R.T. 0.003 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

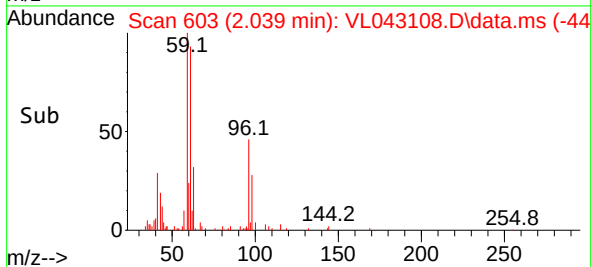
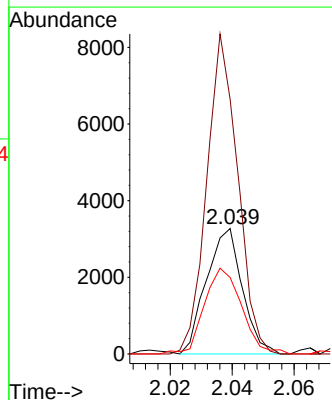
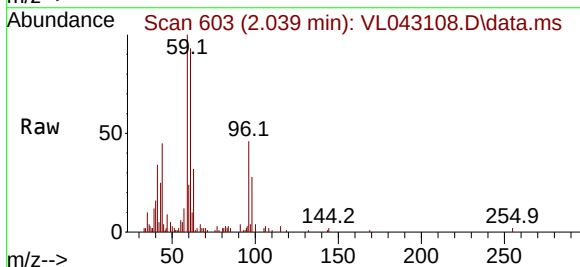
Tgt Ion: 96 Resp: 2636

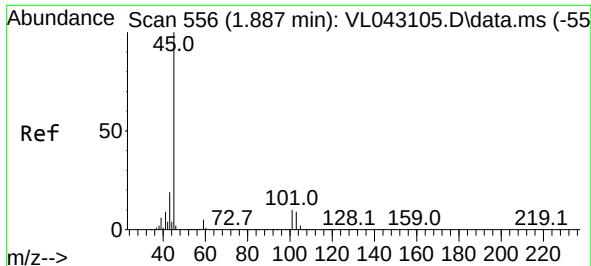
Ion Ratio Lower Upper

96 100

61 203.1 173.4 260.0

98 59.2 53.2 79.8

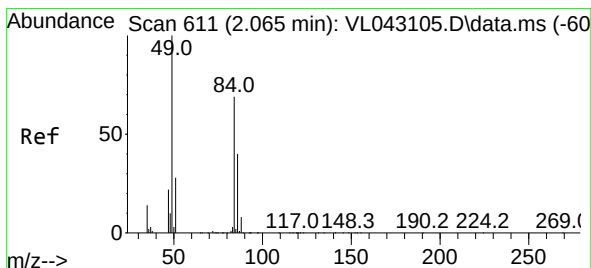
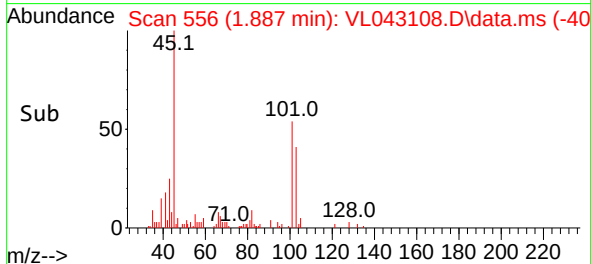
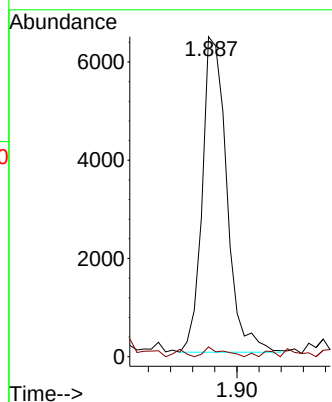
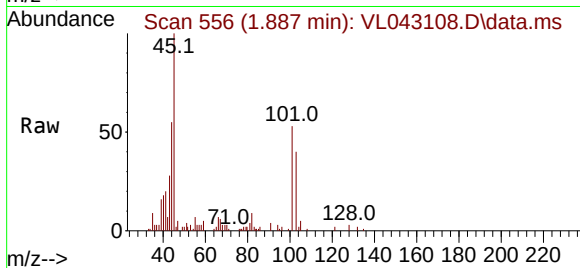




#19
Isopropyl Alcohol
Concen: 0.578 ppbv
RT: 1.887 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

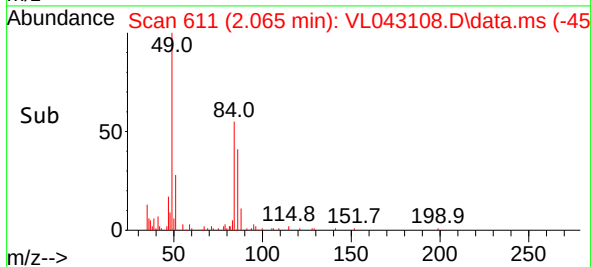
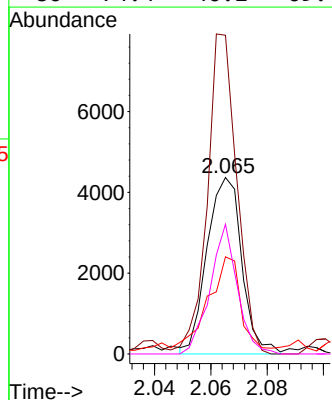
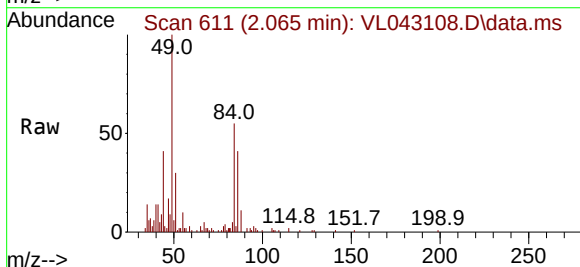
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

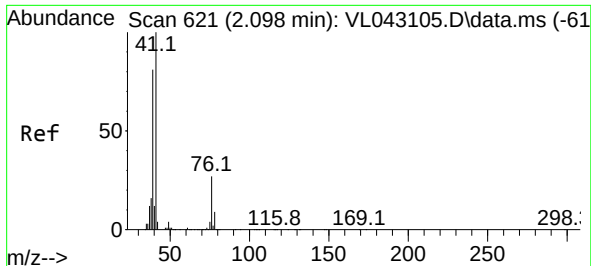
Tgt Ion: 45 Resp: 4932
Ion Ratio Lower Upper
45 100
58 4.1 31.3 46.9#



#20
Methylene Chloride
Concen: 0.693 ppbv
RT: 2.065 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 84 Resp: 3750
Ion Ratio Lower Upper
84 100
49 182.8 116.6 175.0#
51 51.9 34.8 52.2
86 74.4 46.2 69.4#

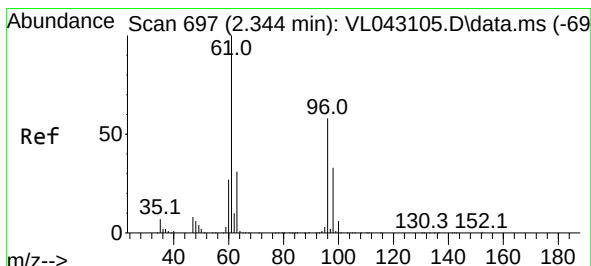
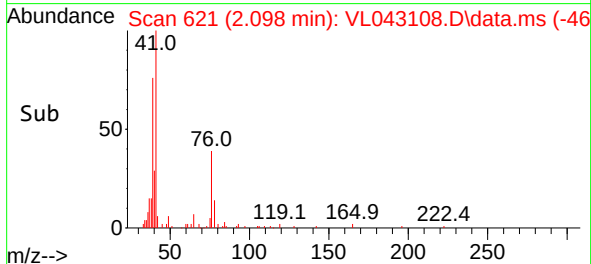
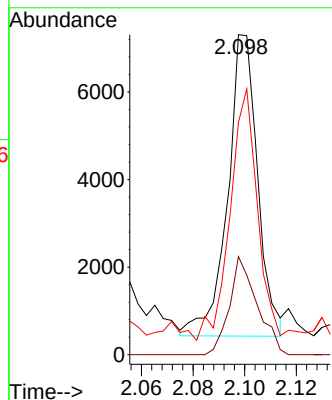
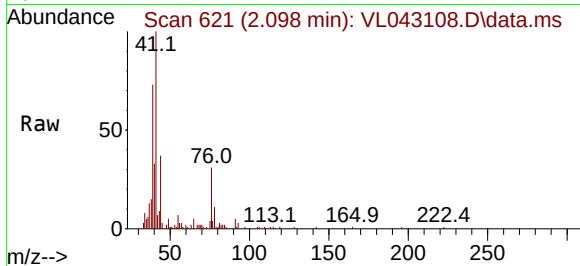




#21
 Allyl Chloride
 Concen: 0.551 ppbv
 RT: 2.098 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: VL043108.D
 Acq: 14 Oct 2025 12:34

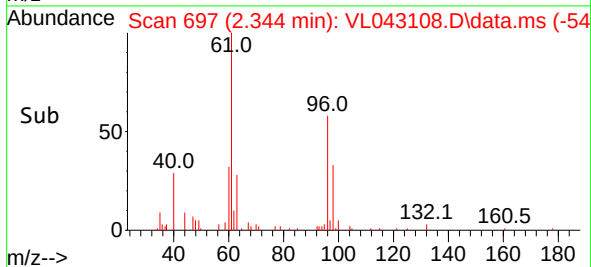
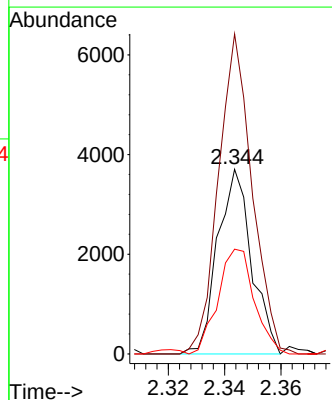
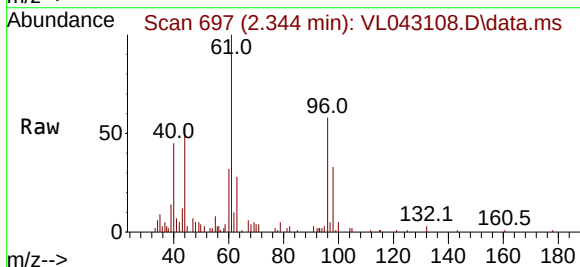
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

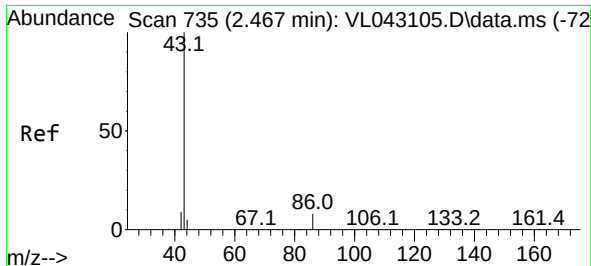
Tgt Ion: 41 Resp: 5575
 Ion Ratio Lower Upper
 41 100
 76 30.0 21.5 32.3
 39 75.1 60.8 91.2



#22
 trans-1,2-Dichloroethene
 Concen: 0.522 ppbv
 RT: 2.344 min Scan# 697
 Delta R.T. -0.000 min
 Lab File: VL043108.D
 Acq: 14 Oct 2025 12:34

Tgt Ion: 96 Resp: 3093
 Ion Ratio Lower Upper
 96 100
 61 173.3 137.0 205.6
 98 55.0 45.5 68.3

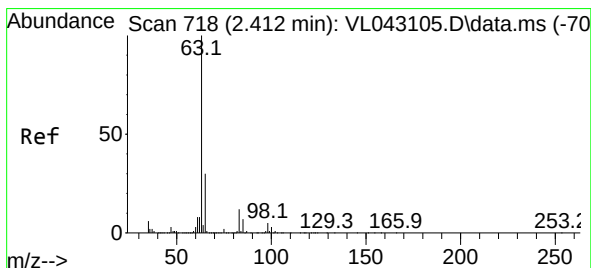
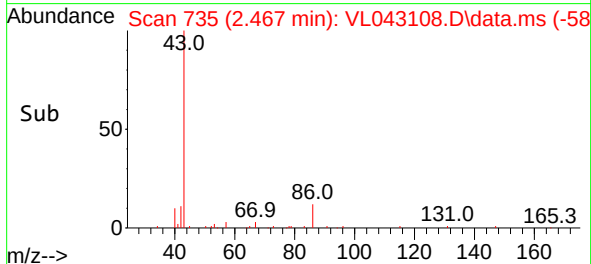
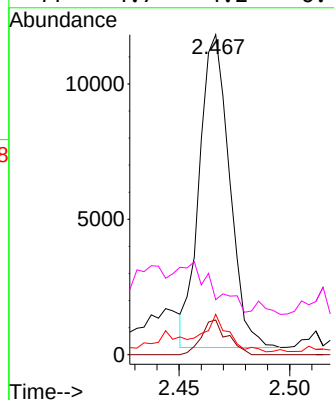
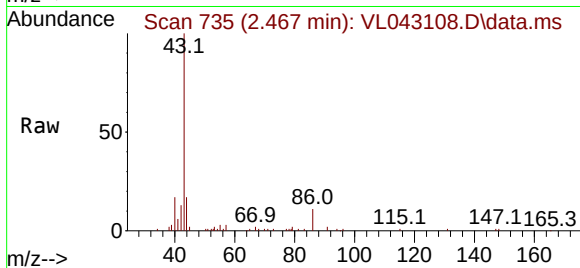




#23
 Vinyl Acetate
 Concen: 0.544 ppbv
 RT: 2.467 min Scan# 718
 Delta R.T. -0.000 min
 Lab File: VL043108.D
 Acq: 14 Oct 2025 12:34

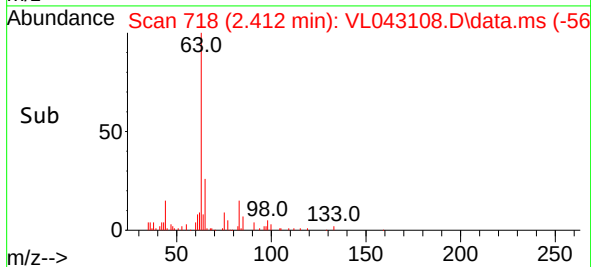
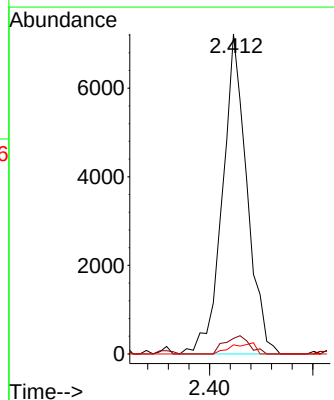
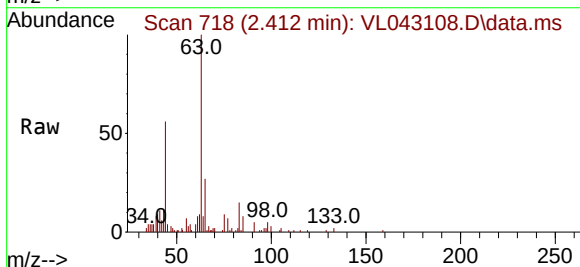
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

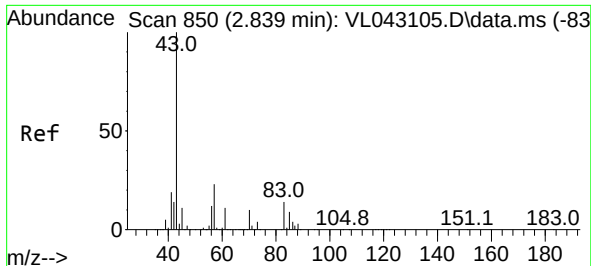
Tgt Ion:	43	Resp:	10914
Ion	Ratio	Lower	Upper
43	100		
86	11.1	6.2	9.2#
42	9.0	7.6	11.4
44	4.7	4.2	6.4



#24
 1,1-Dichloroethane
 Concen: 0.519 ppbv
 RT: 2.412 min Scan# 718
 Delta R.T. -0.000 min
 Lab File: VL043108.D
 Acq: 14 Oct 2025 12:34

Tgt Ion:	63	Resp:	5942
Ion	Ratio	Lower	Upper
63	100		
98	4.8	2.6	7.8
100	2.8	1.5	4.4

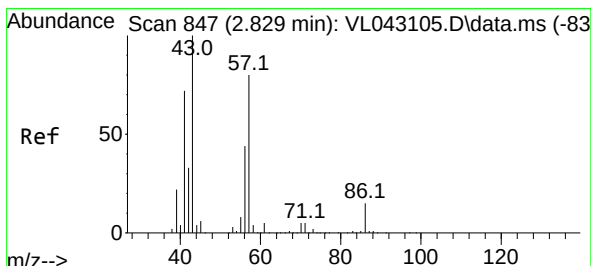
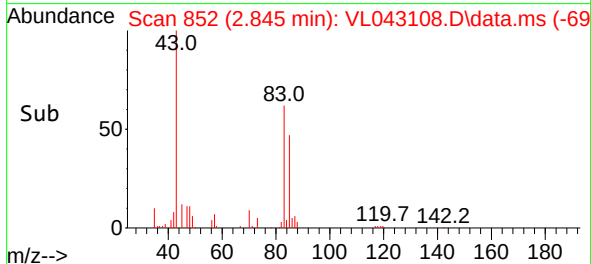
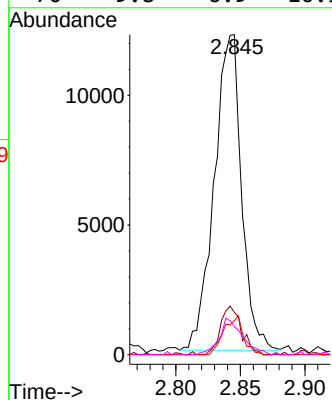
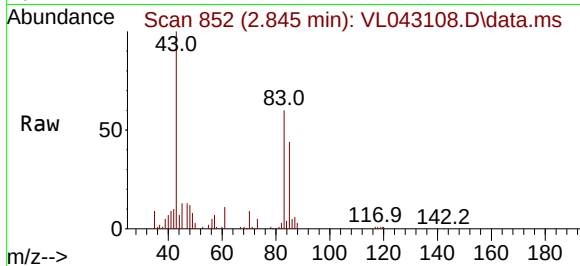




#25
Ethyl Acetate
Concen: 0.527 ppbv
RT: 2.845 min Scan# 850
Delta R.T. 0.006 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

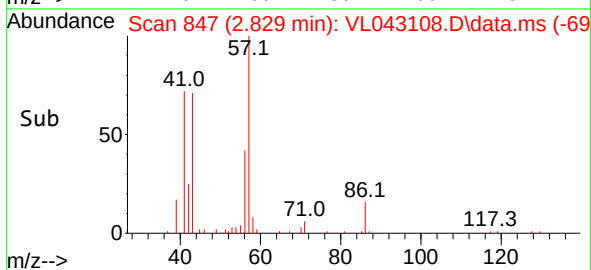
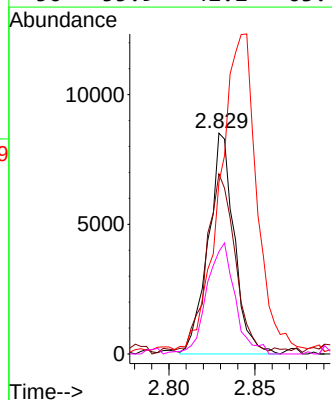
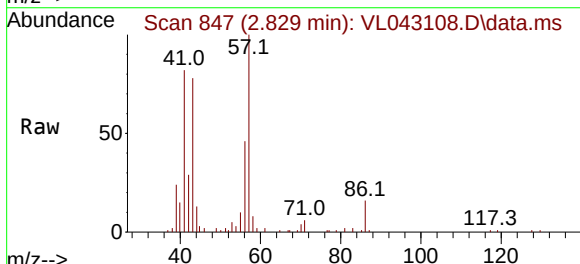
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

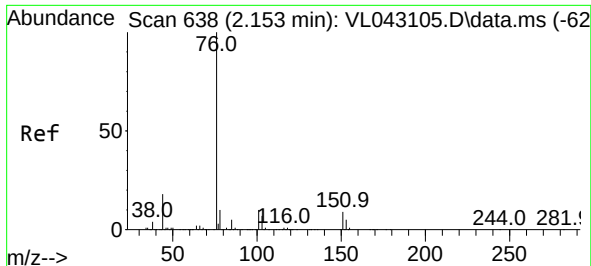
Tgt Ion: 43	Resp:	17918
Ion	Ratio	Lower Upper
43	100	
45	12.3	7.8 11.8#
61	8.8	7.0 10.6
70	9.8	6.9 10.3



#26
Hexane
Concen: 0.569 ppbv
RT: 2.829 min Scan# 847
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 57	Resp:	8908
Ion	Ratio	Lower Upper
57	100	
41	90.3	71.4 107.0
43	211.8	178.5 267.7
56	55.9	42.2 63.4

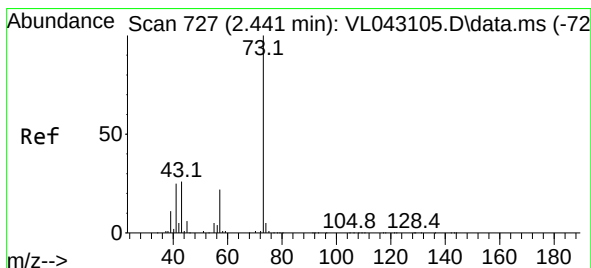
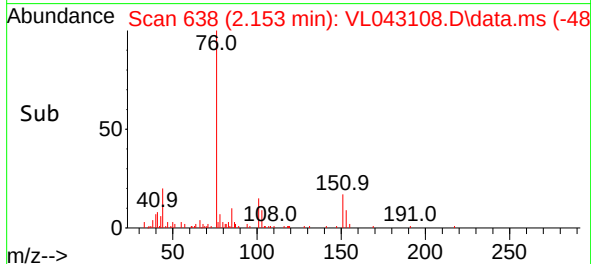
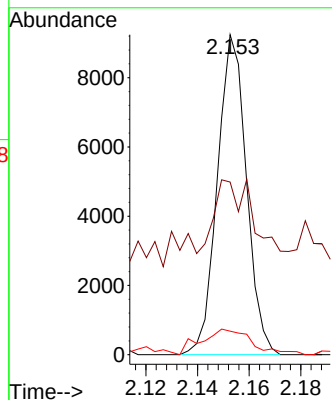
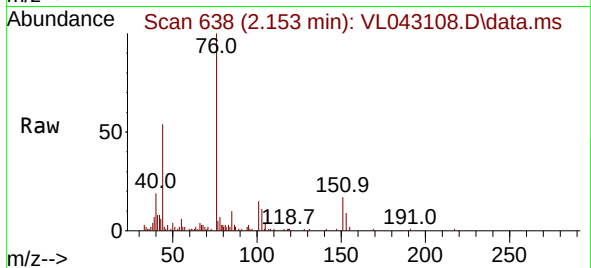




#27
Carbon Disulfide
Concen: 0.504 ppbv
RT: 2.153 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

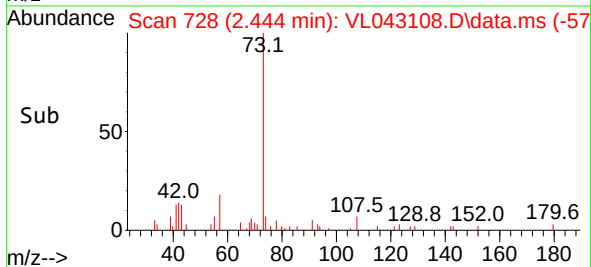
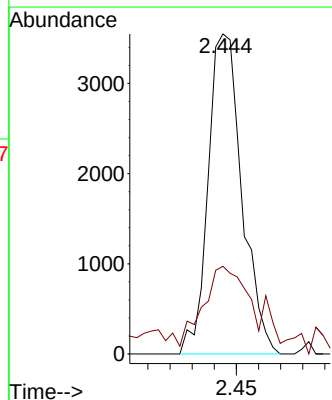
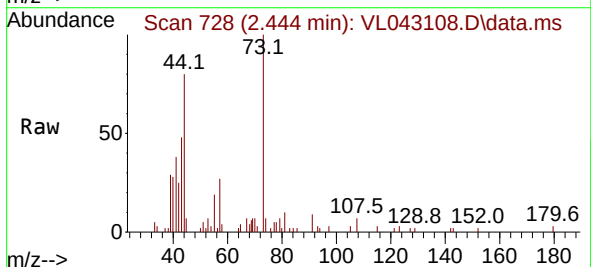
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

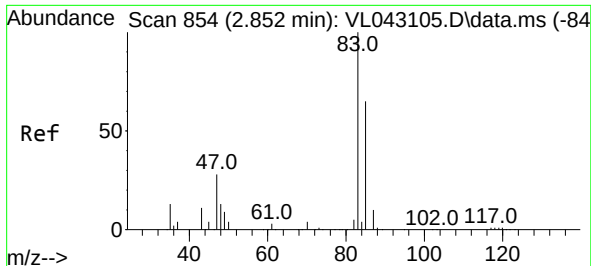
Tgt Ion: 76 Resp: 7230
Ion Ratio Lower Upper
76 100
44 120.9 16.7 25.1#
78 13.9 9.3 13.9



#28
Methyl tert-Butyl Ether
Concen: 0.529 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 73 Resp: 3770
Ion Ratio Lower Upper
73 100
57 52.7 20.5 30.7#





#29

Chloroform

Concen: 0.546 ppbv

RT: 2.852 min Scan# 854

Delta R.T. -0.000 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Instrument :

MSVOA_L

ClientSampleId :

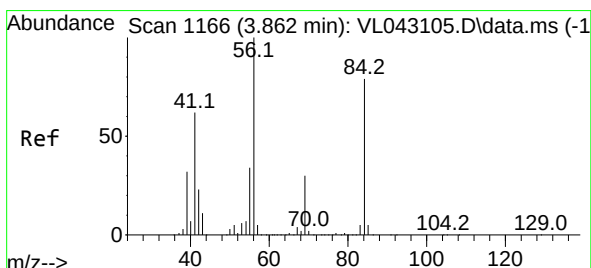
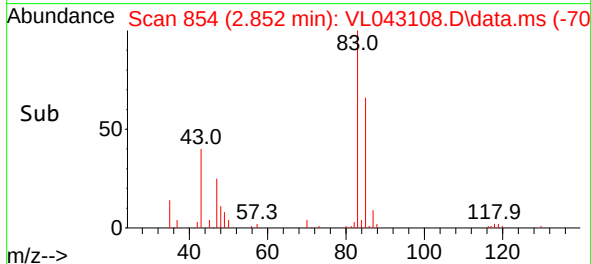
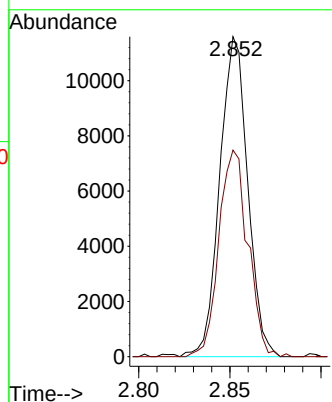
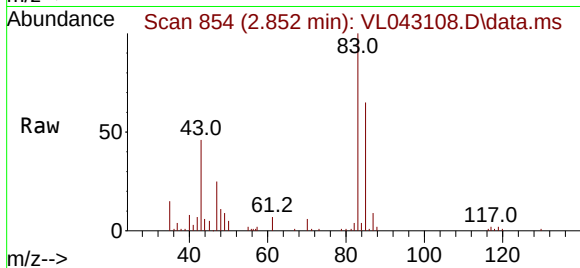
VSTDIC0.5

Tgt Ion: 83 Resp: 12384

Ion Ratio Lower Upper

83 100

85 64.5 51.8 77.6



#30

Cyclohexane

Concen: 0.511 ppbv

RT: 3.862 min Scan# 1166

Delta R.T. -0.000 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

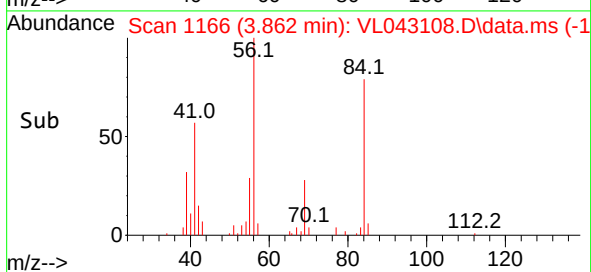
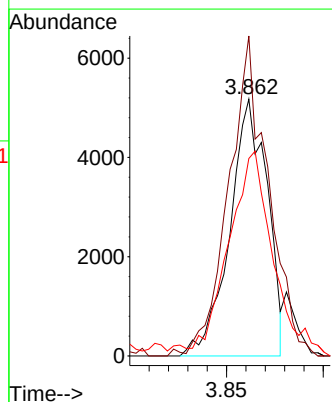
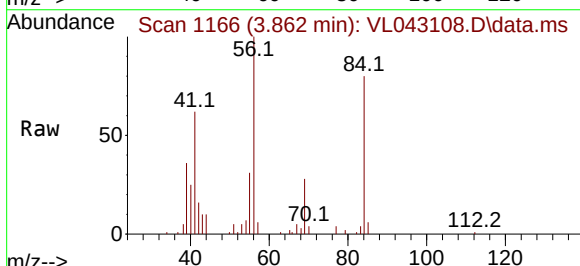
Tgt Ion: 84 Resp: 6978

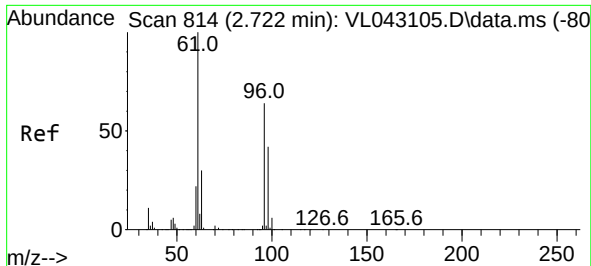
Ion Ratio Lower Upper

84 100

56 131.8 100.9 151.3

41 99.7 63.8 95.6#

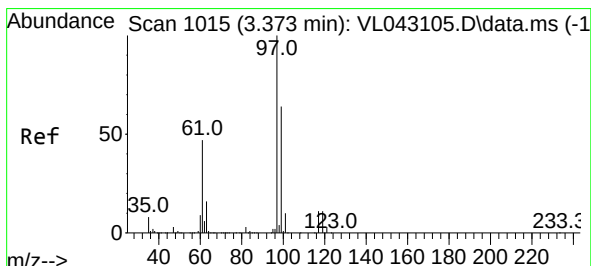
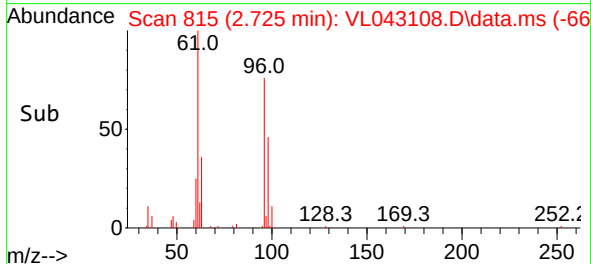
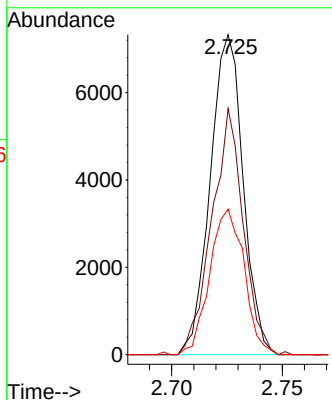
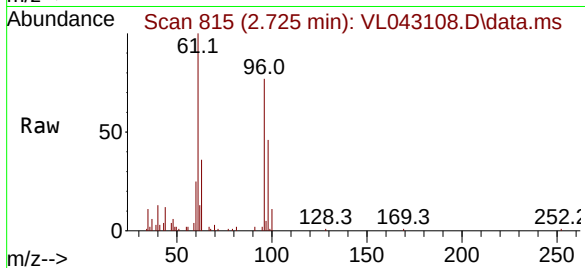




#31
 cis-1,2-Dichloroethene
 Concen: 0.507 ppbv
 RT: 2.725 min Scan# 814
 Delta R.T. 0.003 min
 Lab File: VL043108.D
 Acq: 14 Oct 2025 12:34

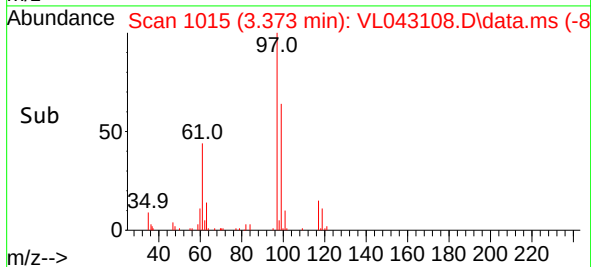
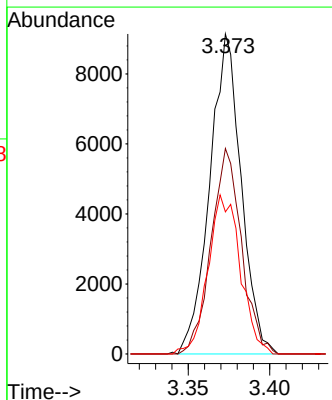
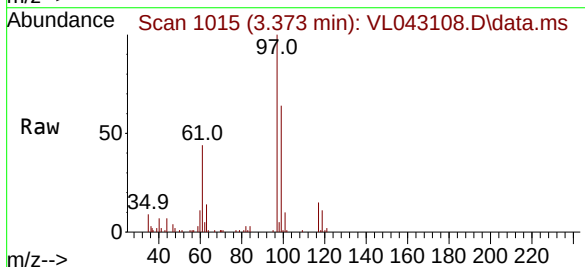
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

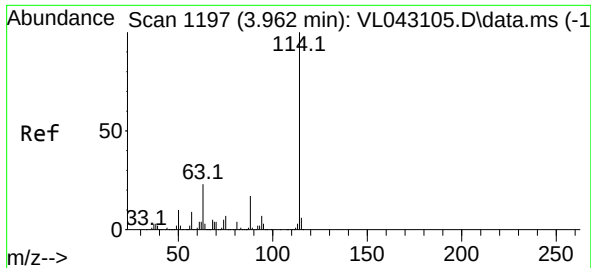
Tgt Ion: 61 Resp: 7576
 Ion Ratio Lower Upper
 61 100
 96 76.9 51.0 76.6#
 98 45.5 33.5 50.3



#32
 1,1,1-Trichloroethane
 Concen: 0.518 ppbv
 RT: 3.373 min Scan# 1015
 Delta R.T. -0.000 min
 Lab File: VL043108.D
 Acq: 14 Oct 2025 12:34

Tgt Ion: 97 Resp: 12234
 Ion Ratio Lower Upper
 97 100
 99 62.0 51.3 76.9
 61 51.2 38.4 57.6

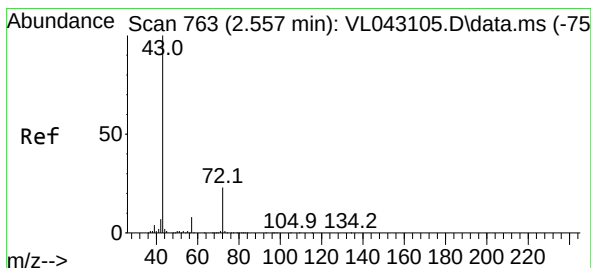
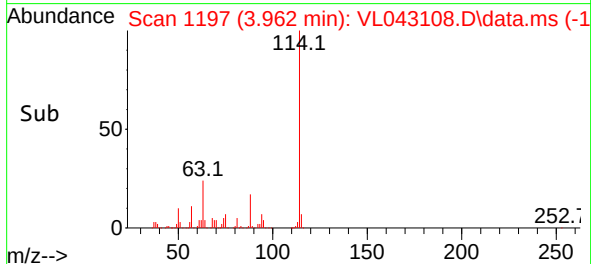
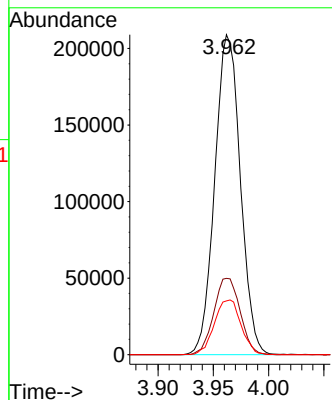
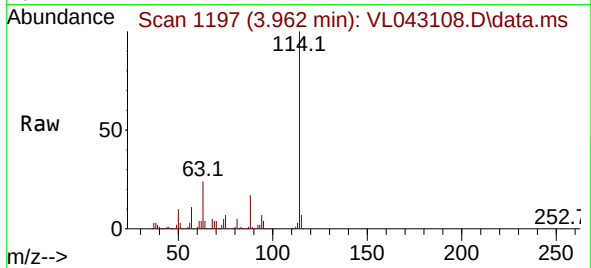




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.962 min Scan# 1197
 Delta R.T. -0.000 min
 Lab File: VL043108.D
 Acq: 14 Oct 2025 12:34

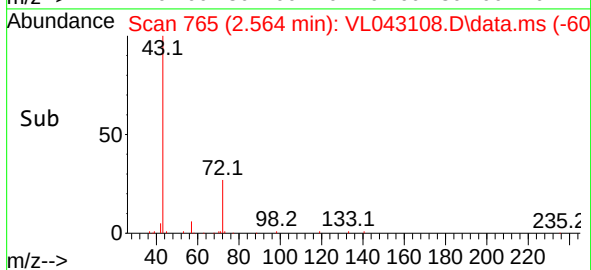
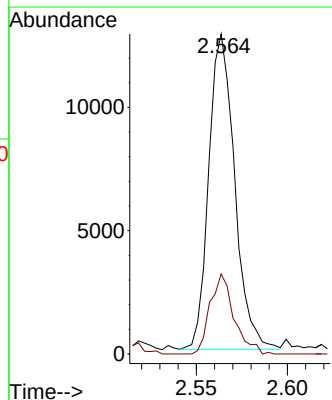
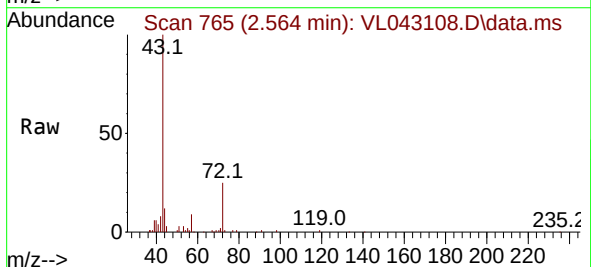
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

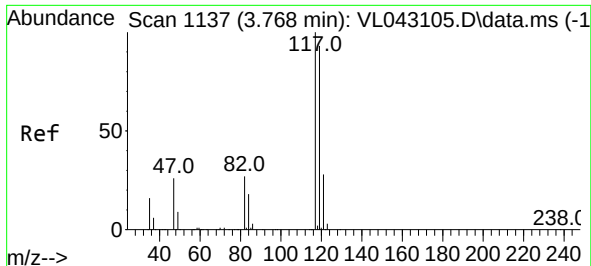
Tgt Ion:114 Resp: 336188
 Ion Ratio Lower Upper
 114 100
 63 24.6 19.3 28.9
 88 17.9 13.9 20.9



#34
 2-Butanone
 Concen: 0.557 ppbv
 RT: 2.564 min Scan# 765
 Delta R.T. 0.006 min
 Lab File: VL043108.D
 Acq: 14 Oct 2025 12:34

Tgt Ion: 43 Resp: 12659
 Ion Ratio Lower Upper
 43 100
 72 23.4 18.4 27.6

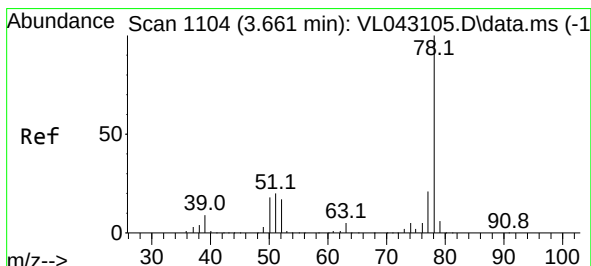
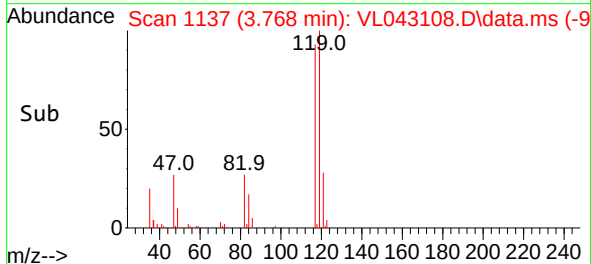
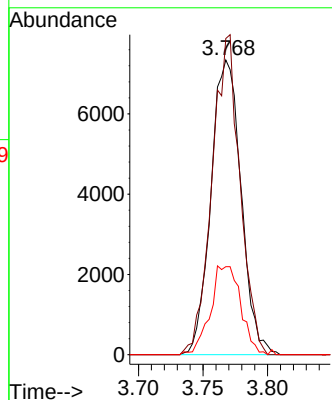
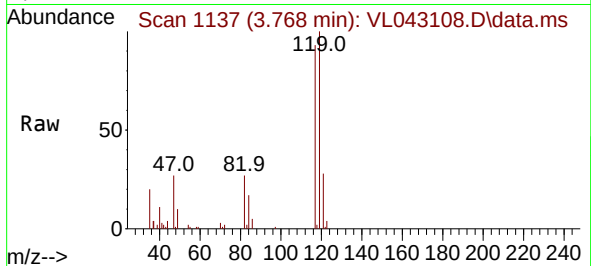




#35
Carbon Tetrachloride
Concen: 0.494 ppbv
RT: 3.768 min Scan# 1137
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

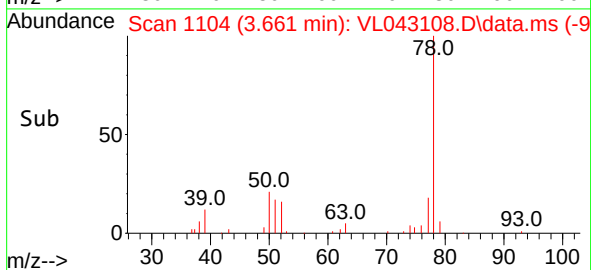
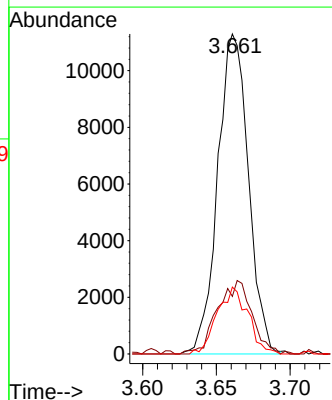
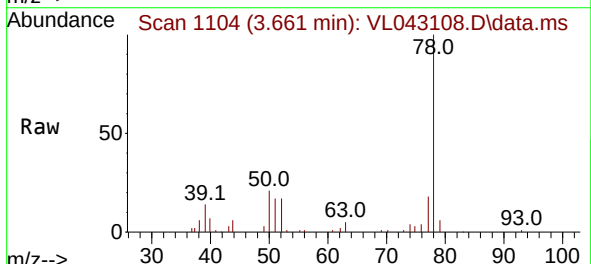
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

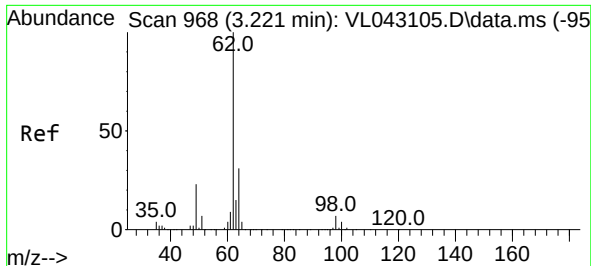
Tgt Ion:117 Resp: 11931
Ion Ratio Lower Upper
117 100
119 107.3 74.1 111.1
121 29.9 22.2 33.2



#36
Benzene
Concen: 0.517 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 78 Resp: 16376
Ion Ratio Lower Upper
78 100
77 18.0 17.0 25.6
50 20.9 14.6 22.0

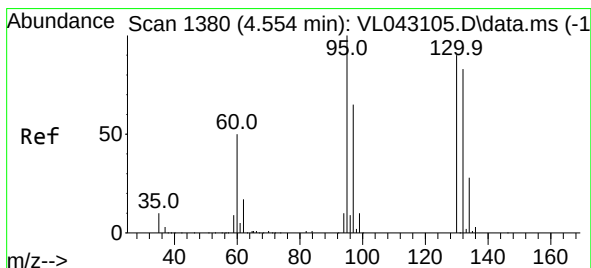
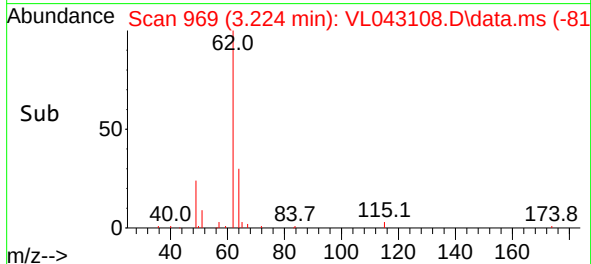
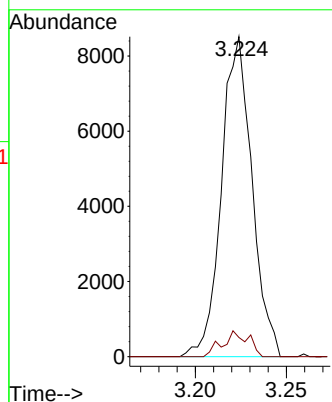
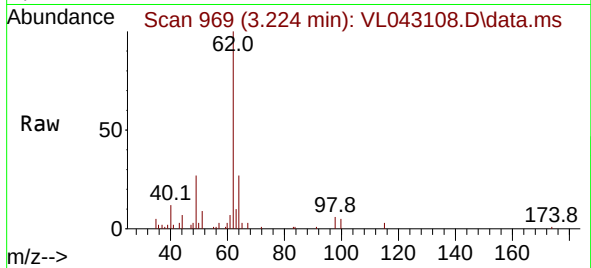




#37
1,2-Dichloroethane
Concen: 0.543 ppbv
RT: 3.224 min Scan# 969
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

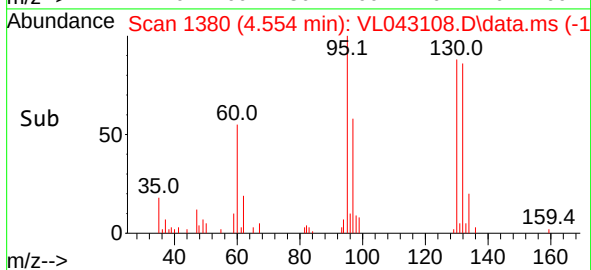
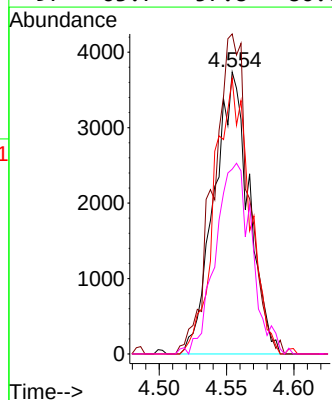
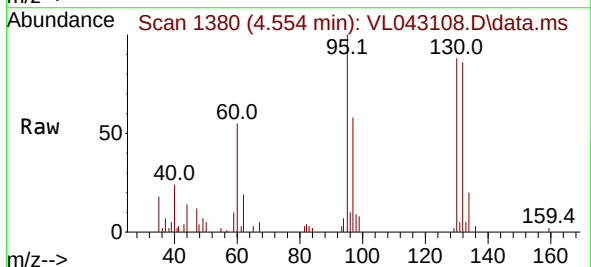
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

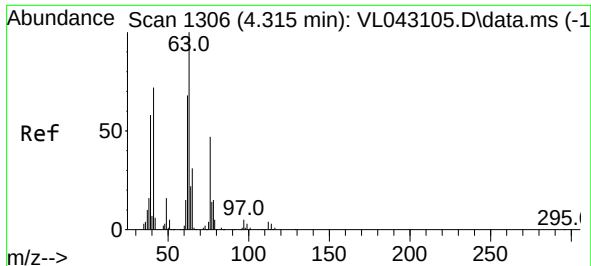
Tgt Ion: 62 Resp: 9907
Ion Ratio Lower Upper
62 100
98 6.8 5.8 8.6



#38
Trichloroethene
Concen: 0.511 ppbv
RT: 4.554 min Scan# 1380
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 130 Resp: 6745
Ion Ratio Lower Upper
130 100
95 110.7 88.6 133.0
132 97.8 73.4 110.0
97 63.7 57.8 86.6





#39

1,2-Dichloropropane

Concen: 0.521 ppbv

RT: 4.318 min Scan# 1306

Delta R.T. 0.003 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.5

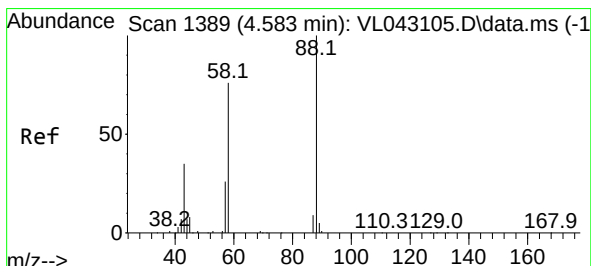
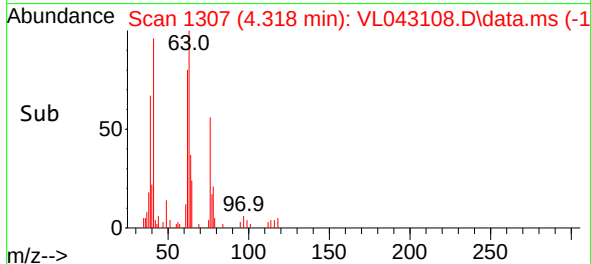
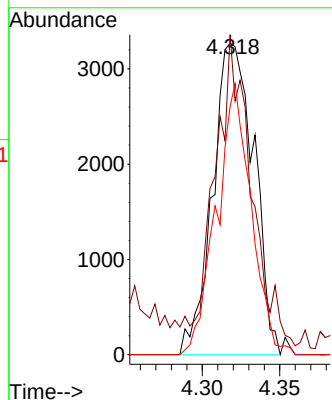
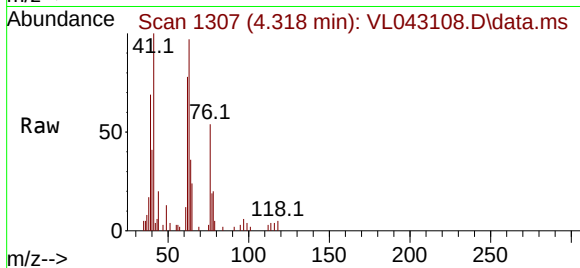
Tgt Ion: 63 Resp: 6032

Ion Ratio Lower Upper

63 100

41 93.9 58.0 87.0#

62 79.6 54.7 82.1



#40

1,4-Dioxane

Concen: 0.252 ppbv

RT: 4.603 min Scan# 1395

Delta R.T. 0.019 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Tgt Ion: 88 Resp: 1303

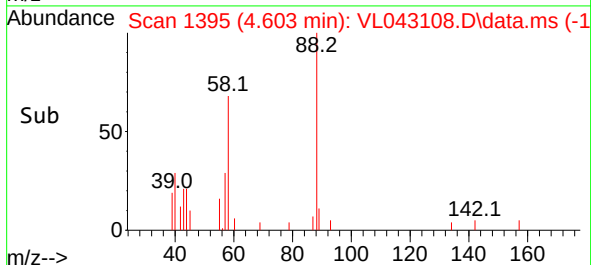
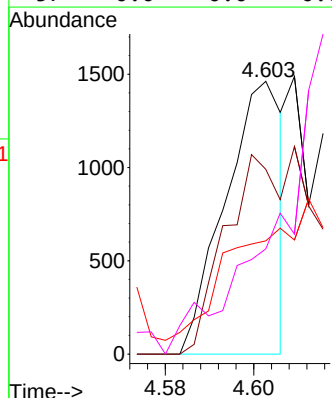
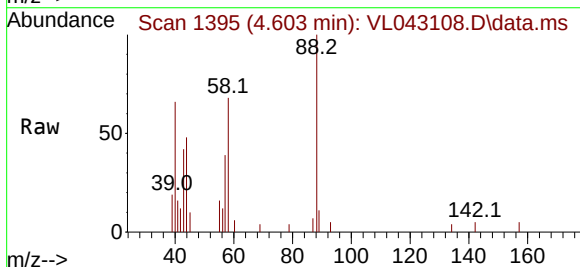
Ion Ratio Lower Upper

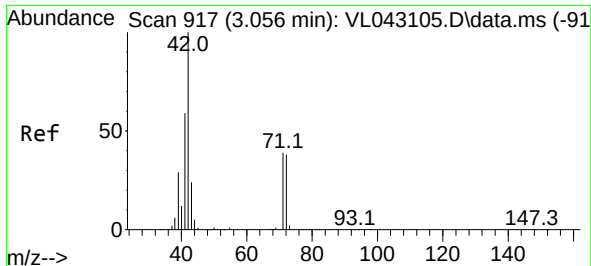
88 100

58 0.0 61.1 91.7#

43 24.5 24.0 36.0

57 0.0 0.0 0.0

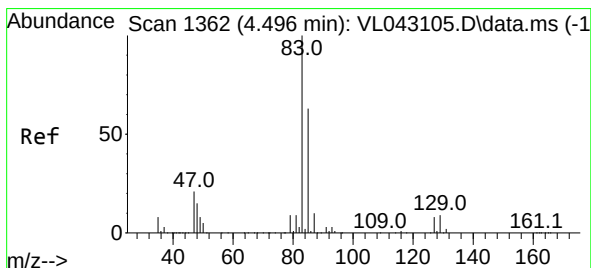
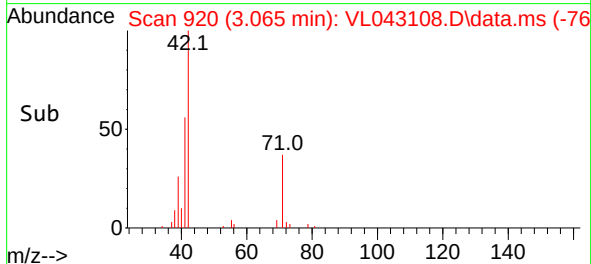
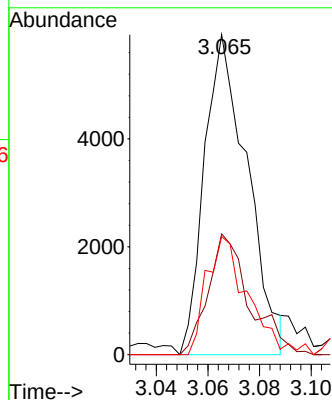
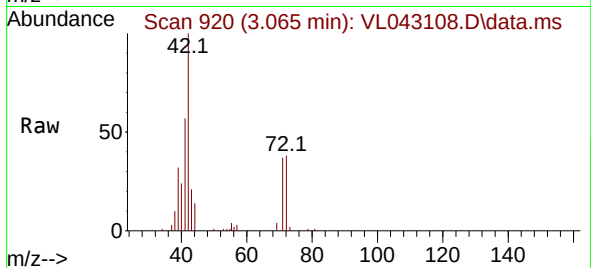




#41
Tetrahydrofuran
Concen: 0.538 ppbv
RT: 3.065 min Scan# 917
Delta R.T. 0.009 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

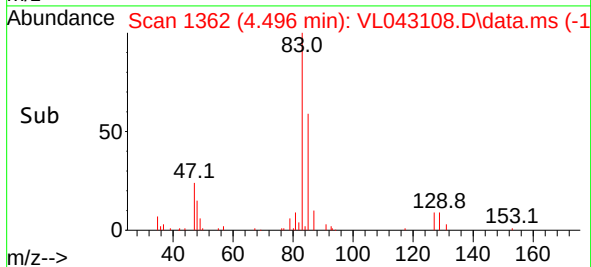
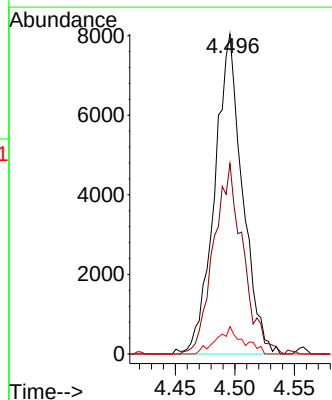
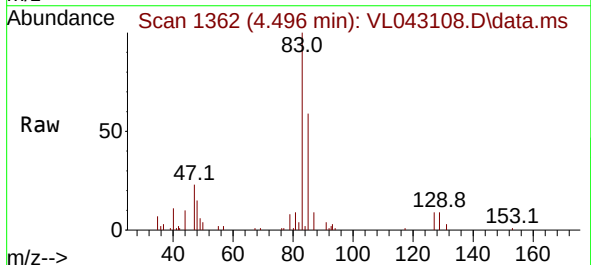
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

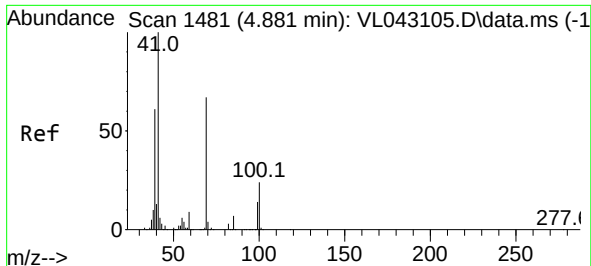
Tgt Ion: 42 Resp: 6831
Ion Ratio Lower Upper
42 100
72 36.6 31.3 46.9
71 37.2 30.4 45.6



#42
Bromodichloromethane
Concen: 0.519 ppbv
RT: 4.496 min Scan# 1362
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 83 Resp: 13094
Ion Ratio Lower Upper
83 100
85 59.5 50.6 75.8
127 8.5 6.3 9.5

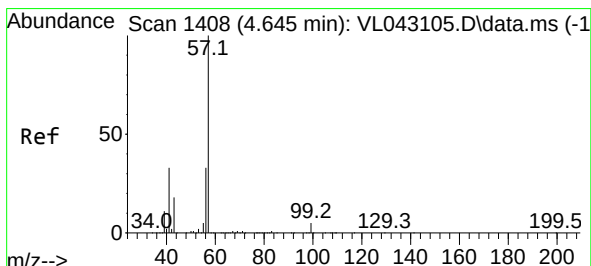
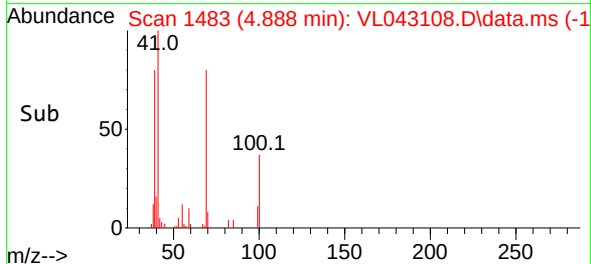
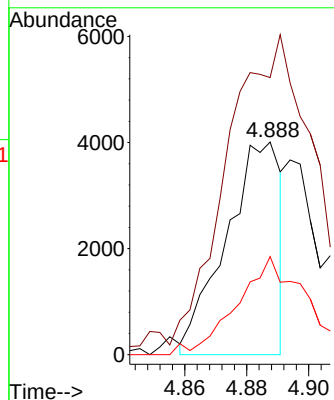
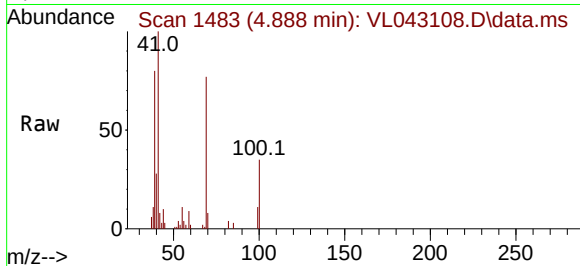




#43
Methyl Methacrylate
Concen: 0.303 ppbv
RT: 4.888 min Scan# 1483
Delta R.T. 0.006 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

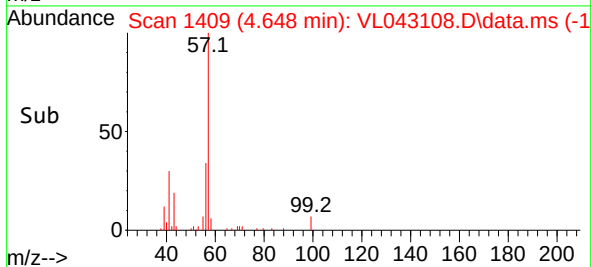
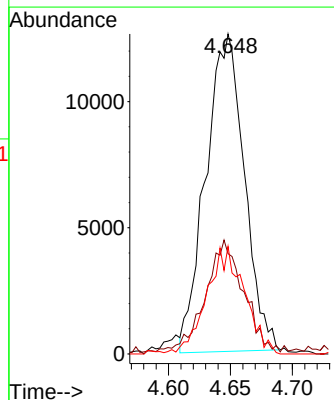
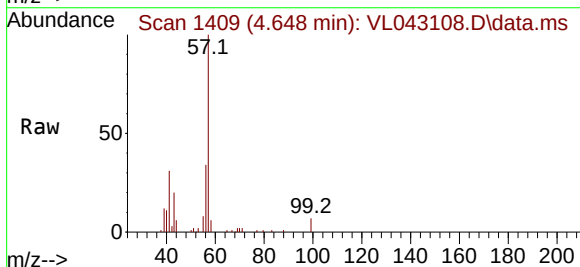
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC0.5

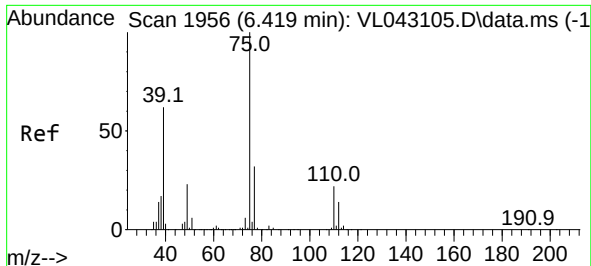
Tgt Ion: 69 Resp: 4902
Ion Ratio Lower Upper
69 100
41 0.0 120.5 180.7#
100 61.1 29.0 43.4#



#44
2,2,4-Trimethylpentane
Concen: 0.516 ppbv
RT: 4.648 min Scan# 1409
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 57 Resp: 27304
Ion Ratio Lower Upper
57 100
41 34.2 26.3 39.5
56 33.3 25.9 38.9





#45

t-1,3-Dichloropropene

Concen: 0.498 ppbv

RT: 6.425 min Scan# 1956

Delta R.T. 0.006 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Instrument :

MSVOA_L

ClientSampleId :

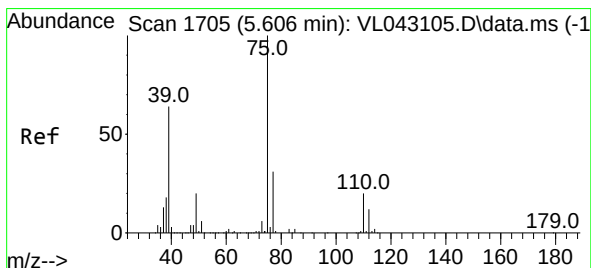
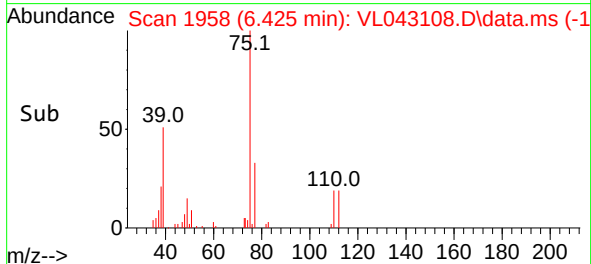
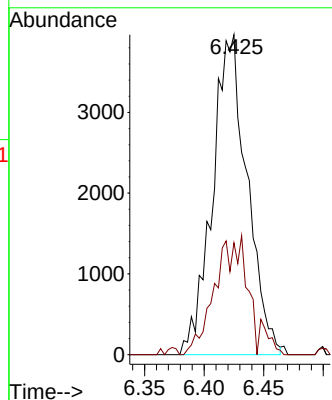
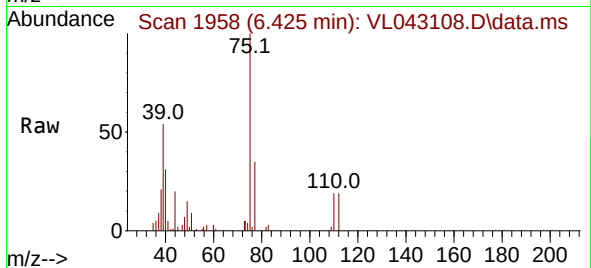
VSTDIC0.5

Tgt Ion: 75 Resp: 8030

Ion Ratio Lower Upper

75 100

77 34.9 25.4 38.2



#46

cis-1,3-Dichloropropene

Concen: 0.435 ppbv

RT: 5.609 min Scan# 1706

Delta R.T. 0.003 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

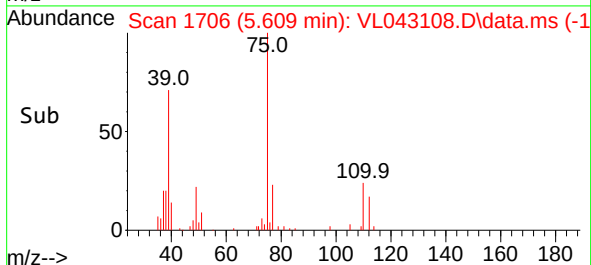
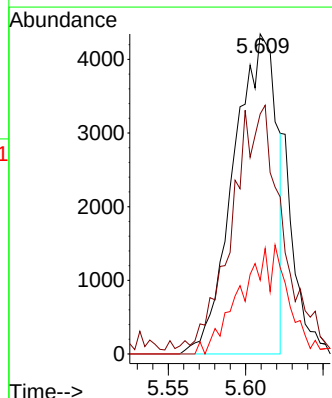
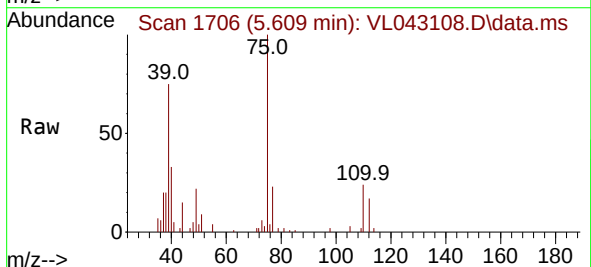
Tgt Ion: 75 Resp: 8375

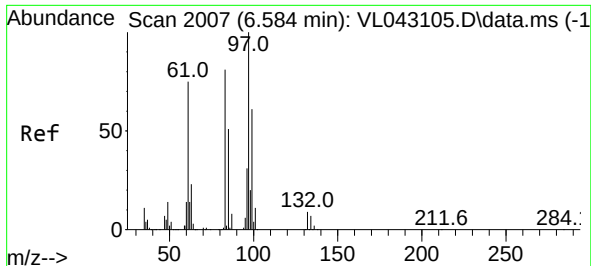
Ion Ratio Lower Upper

75 100

39 72.5 51.0 76.6

77 23.1 25.0 37.4#





#47

1,1,2-Trichloroethane

Concen: 0.560 ppbv

RT: 6.587 min Scan# 2007

Delta R.T. 0.003 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 97 Resp: 6996

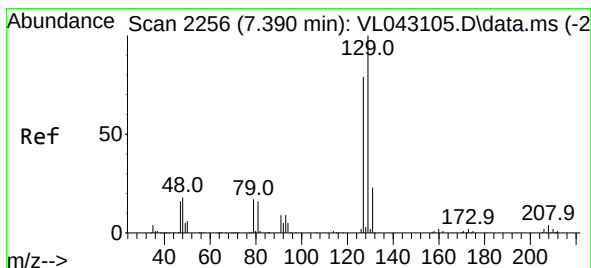
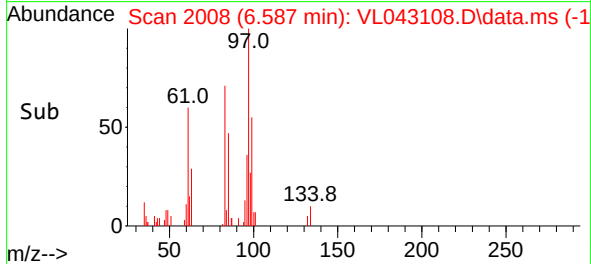
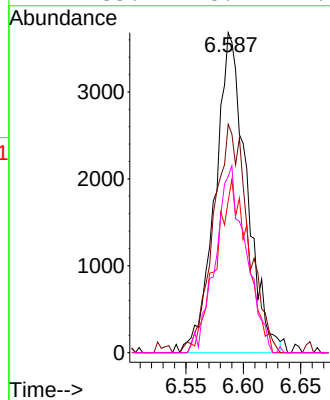
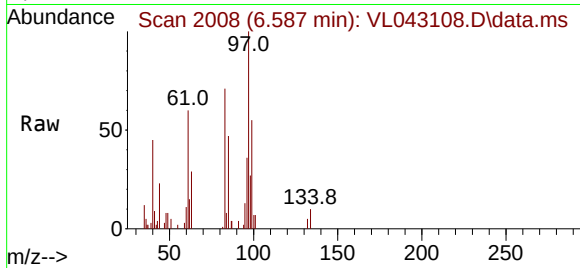
Ion Ratio Lower Upper

97 100

83 71.4 64.6 96.8

85 47.5 40.6 60.8

99 55.1 48.4 72.6



#48

Dibromochloromethane

Concen: 0.498 ppbv

RT: 7.393 min Scan# 2257

Delta R.T. 0.003 min

Lab File: VL043108.D

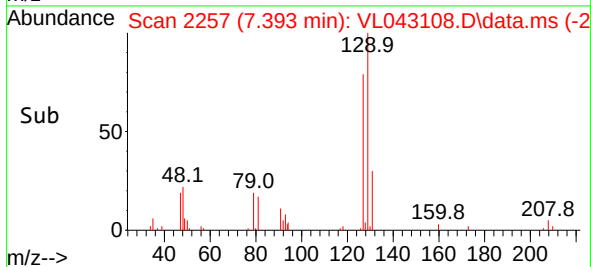
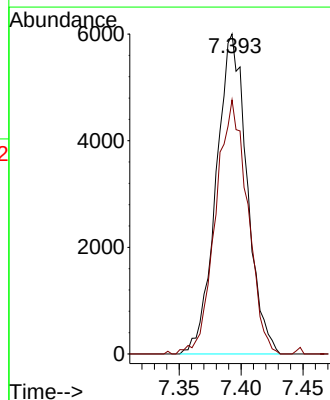
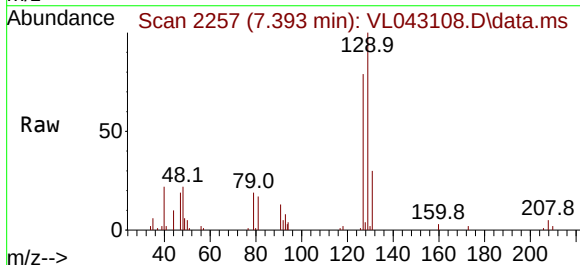
Acq: 14 Oct 2025 12:34

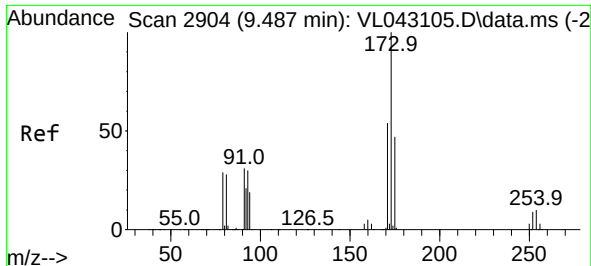
Tgt Ion: 129 Resp: 10413

Ion Ratio Lower Upper

129 100

127 82.2 39.3 117.9





#49

Bromoform

Concen: 0.498 ppbv

RT: 9.487 min Scan# 2904

Delta R.T. -0.000 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

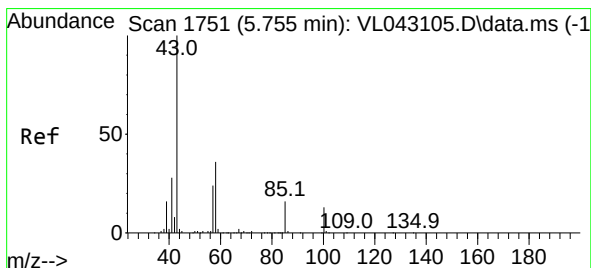
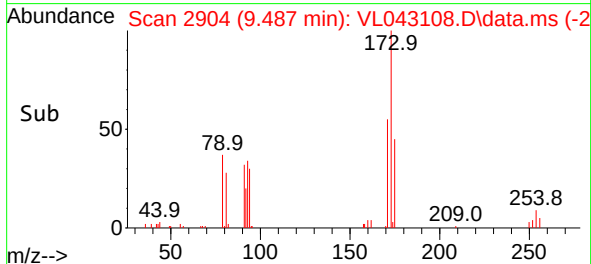
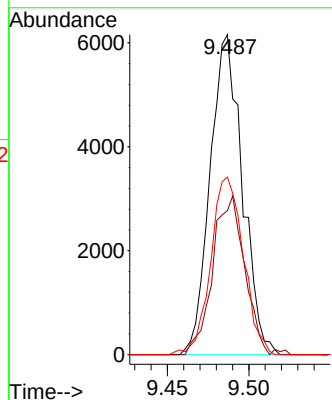
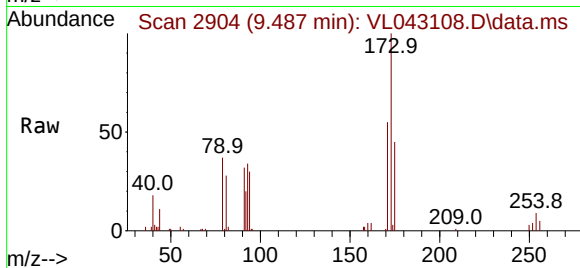
Tgt Ion:173 Resp: 8455

Ion Ratio Lower Upper

173 100

175 49.6 38.8 58.2

171 56.3 41.7 62.5



#50

4-Methyl-2-Pentanone

Concen: 0.110 ppbv

RT: 5.755 min Scan# 1751

Delta R.T. -0.000 min

Lab File: VL043108.D

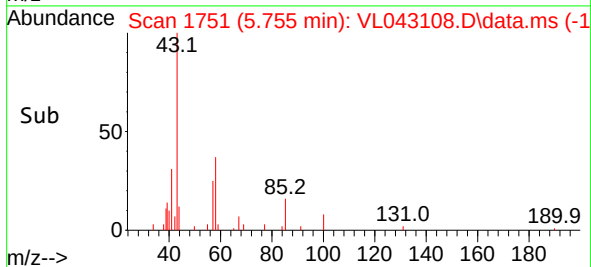
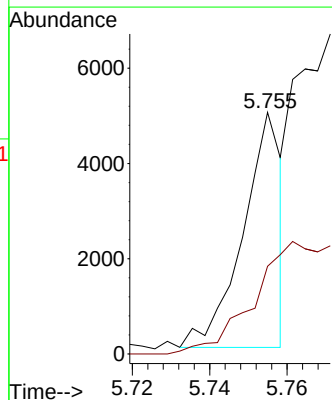
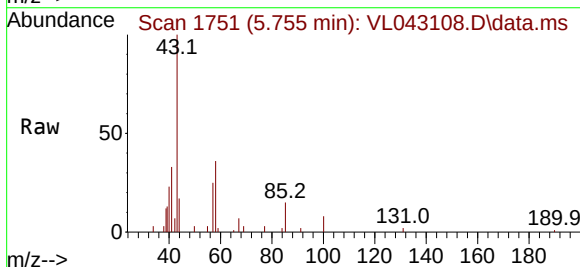
Acq: 14 Oct 2025 12:34

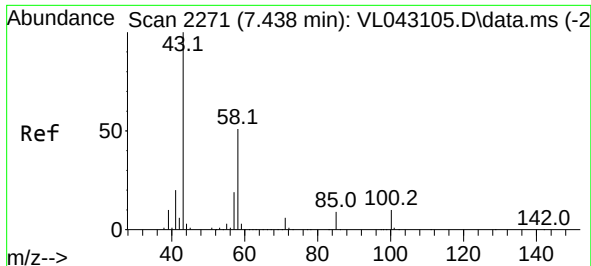
Tgt Ion: 43 Resp: 3434

Ion Ratio Lower Upper

43 100

58 0.0 29.1 43.7#

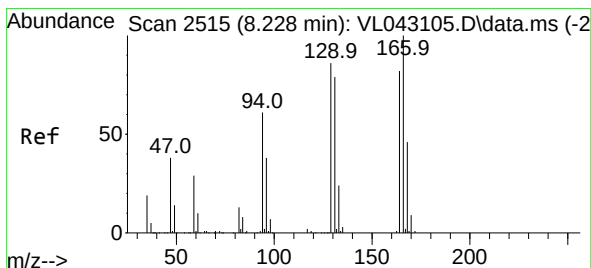
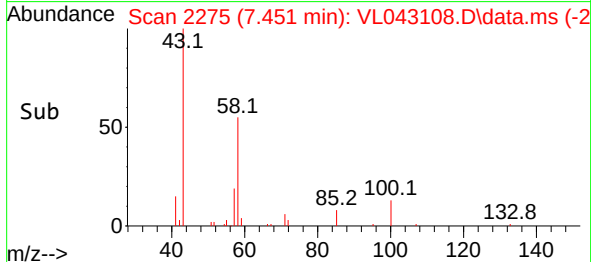
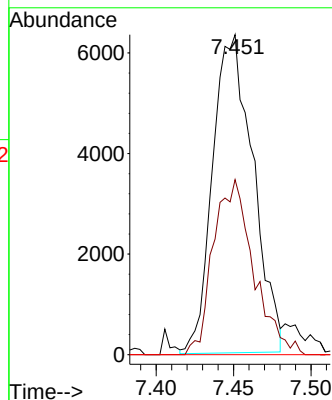
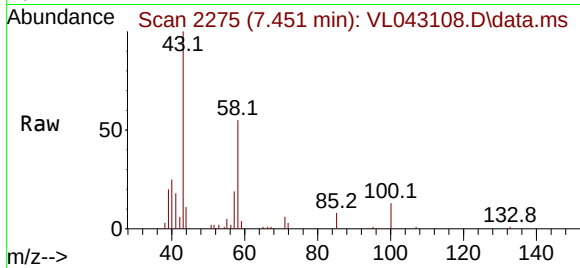




#51
2-Hexanone
Concen: 0.491 ppbv
RT: 7.451 min Scan# 2114
Delta R.T. 0.013 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

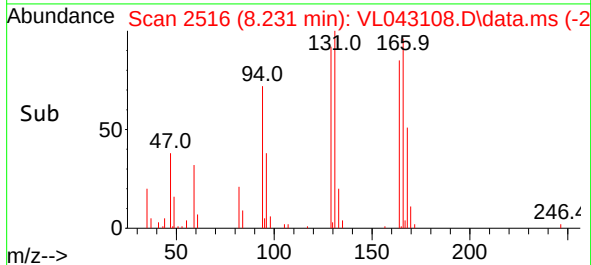
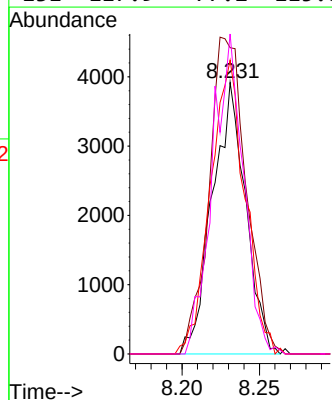
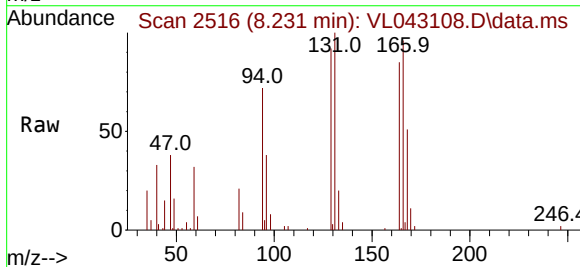
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

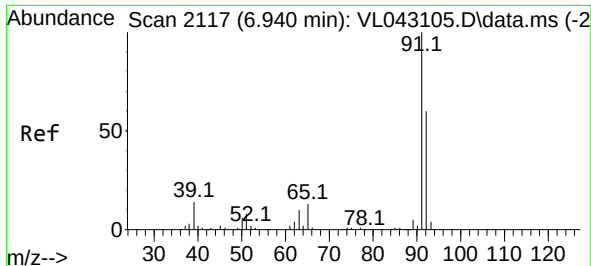
Tgt Ion: 43 Resp: 11485
Ion Ratio Lower Upper
43 100
58 54.7 40.4 60.6
98 0.0 0.1 0.1#



#52
Tetrachloroethene
Concen: 0.513 ppbv
RT: 8.231 min Scan# 2516
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion:164 Resp: 5863
Ion Ratio Lower Upper
164 100
166 112.8 97.6 146.4
129 106.1 84.5 126.7
131 117.9 77.2 115.8#

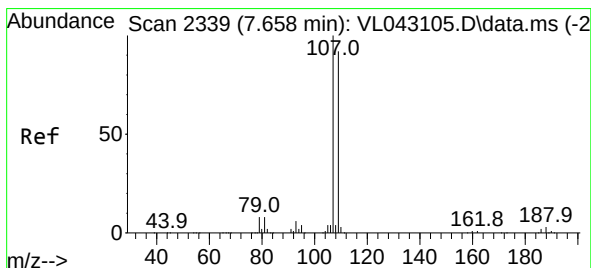
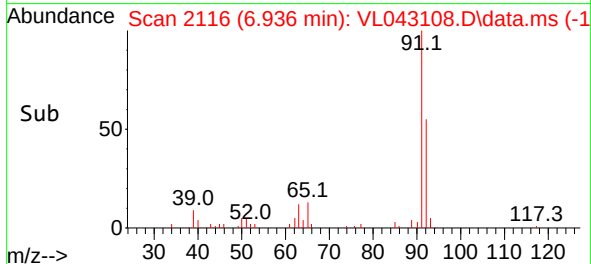
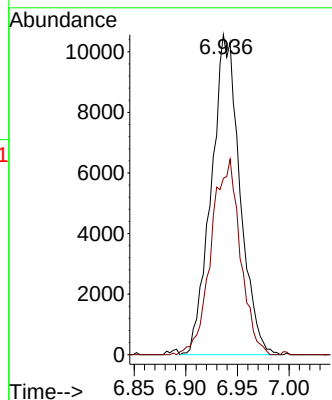
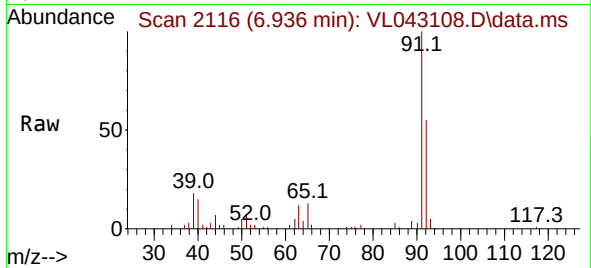




#53
Toluene
Concen: 0.542 ppbv
RT: 6.936 min Scan# 2117
Delta R.T. -0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

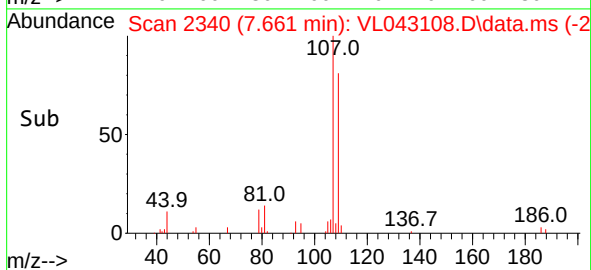
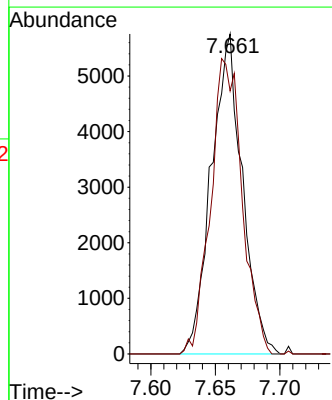
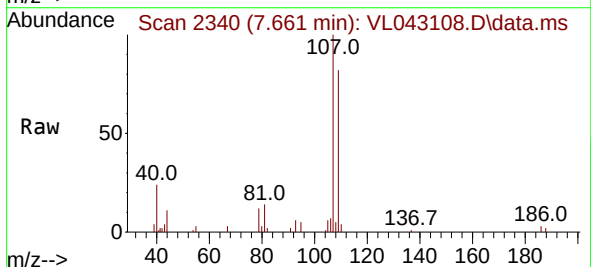
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

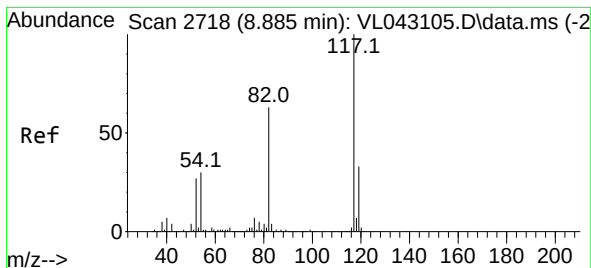
Tgt Ion: 91 Resp: 20380
Ion Ratio Lower Upper
91 100
92 62.1 48.8 73.2



#54
1,2-Dibromoethane
Concen: 0.486 ppbv
RT: 7.661 min Scan# 2340
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 107 Resp: 9586
Ion Ratio Lower Upper
107 100
109 82.2 73.4 110.2





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.888 min Scan# 2718

Delta R.T. 0.003 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

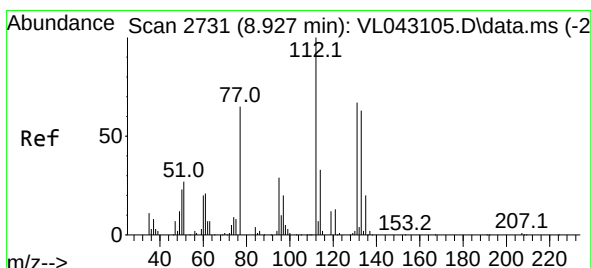
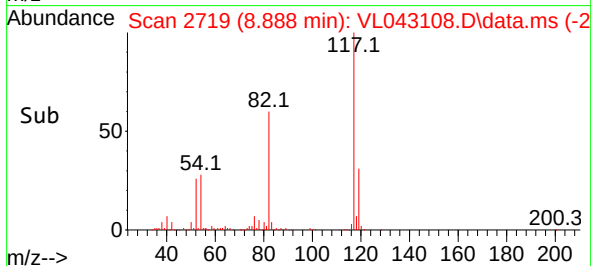
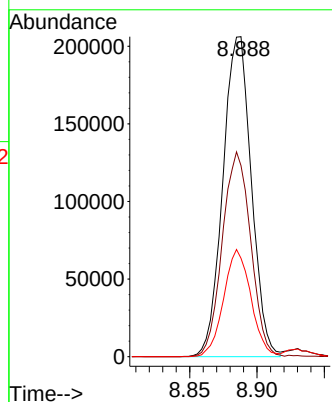
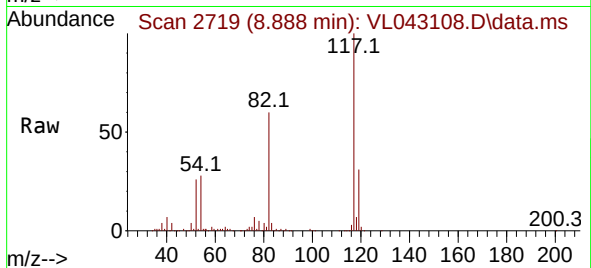
Tgt Ion:117 Resp: 303445

Ion Ratio Lower Upper

117 100

82 63.9 53.8 80.8

119 32.1 25.4 38.0



#56

1,1,1,2-Tetrachloroethane

Concen: 0.525 ppbv

RT: 8.930 min Scan# 2732

Delta R.T. 0.003 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

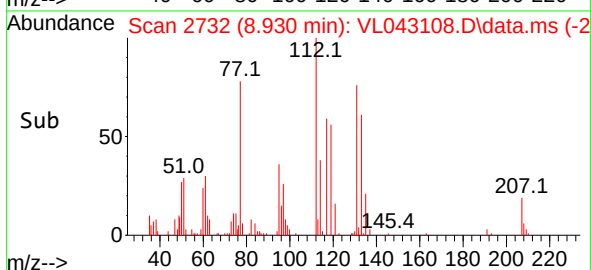
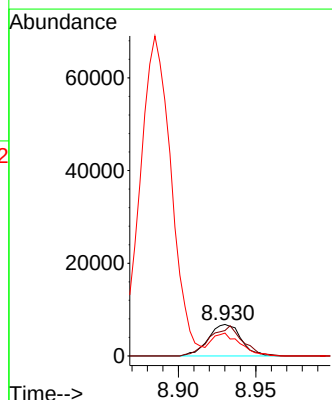
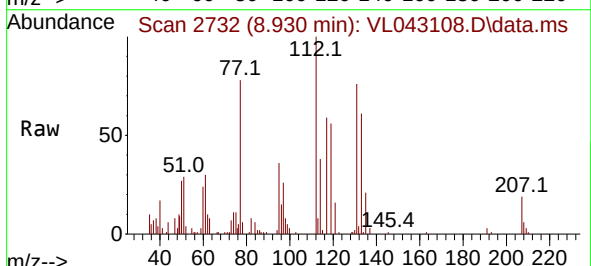
Tgt Ion:131 Resp: 10044

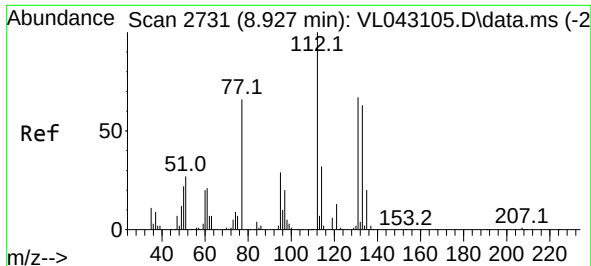
Ion Ratio Lower Upper

131 100

133 94.6 75.7 113.5

119 1032.5 50.6 76.0#

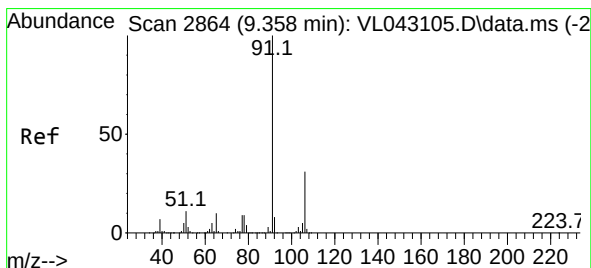
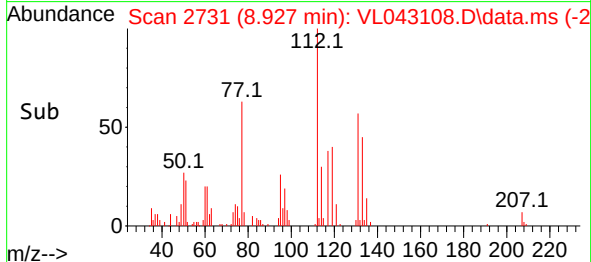
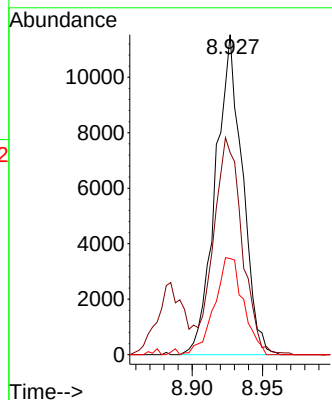
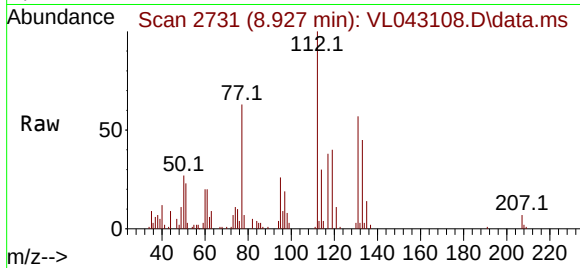




#57
Chlorobenzene
Concen: 0.540 ppbv
RT: 8.927 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

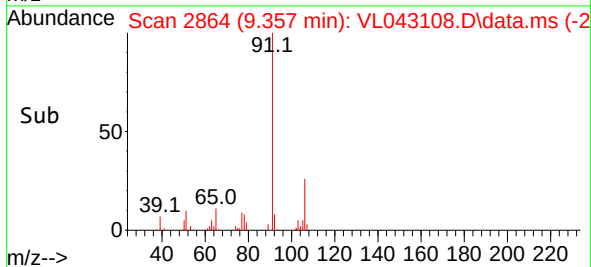
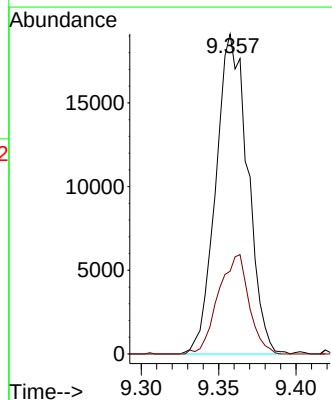
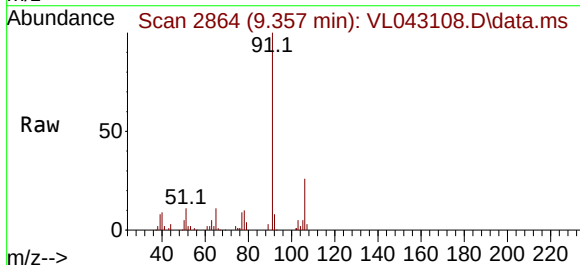
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

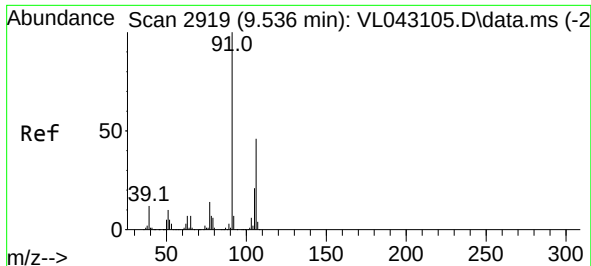
Tgt Ion:112 Resp: 15318
Ion Ratio Lower Upper
112 100
77 62.5 53.3 79.9
114 30.0 29.3 35.8



#58
Ethyl Benzene
Concen: 0.521 ppbv
RT: 9.357 min Scan# 2864
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 91 Resp: 27330
Ion Ratio Lower Upper
91 100
106 25.8 24.8 37.2





#59

m/p-Xylene

Concen: 0.483 ppbv

RT: 9.539 min Scan# 2919

Delta R.T. 0.003 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Instrument :

MSVOA_1

ClientSampleId :

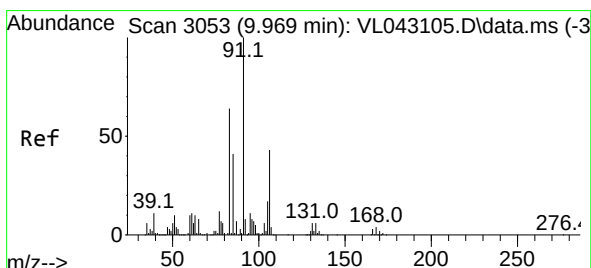
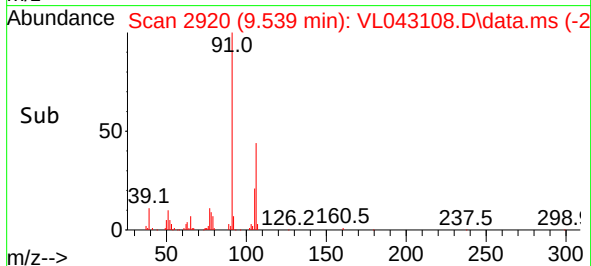
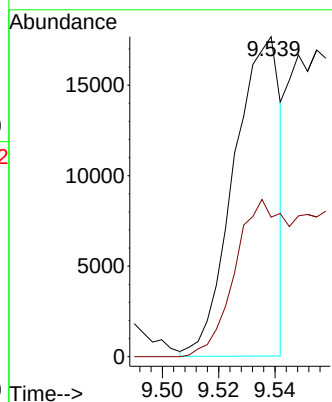
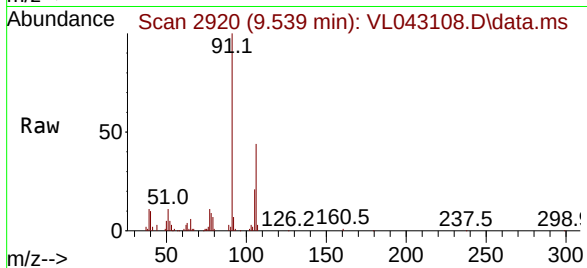
VSTDICC0.5

Tgt Ion: 91 Resp: 20079

Ion Ratio Lower Upper

91 100

106 104.4 38.0 57.0#



#60

o-Xylene

Concen: 0.530 ppbv

RT: 9.969 min Scan# 3053

Delta R.T. -0.000 min

Lab File: VL043108.D

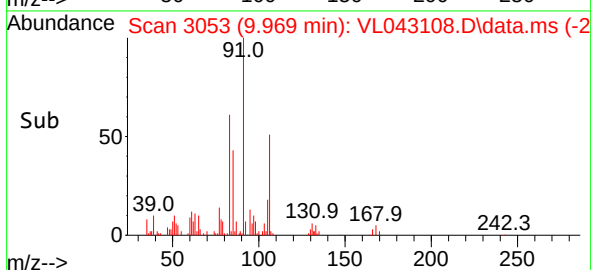
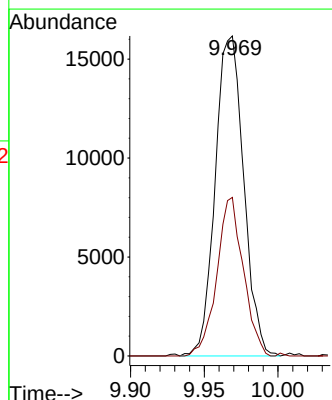
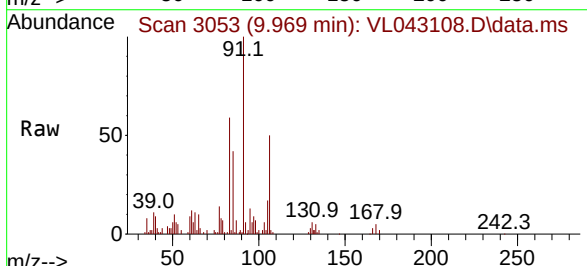
Acq: 14 Oct 2025 12:34

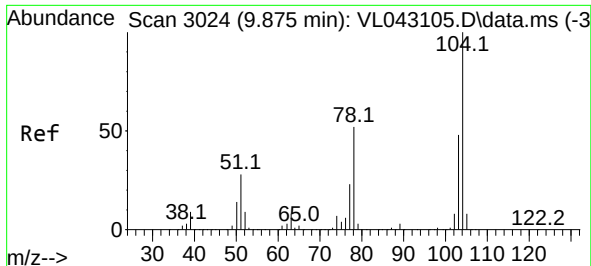
Tgt Ion: 91 Resp: 21745

Ion Ratio Lower Upper

91 100

106 46.2 21.9 65.8

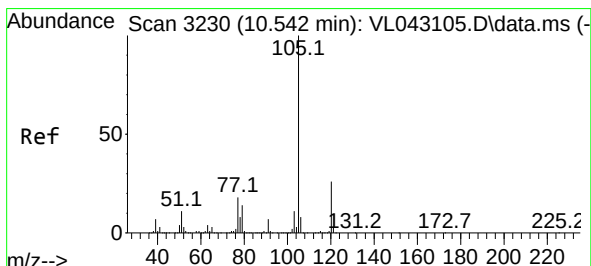
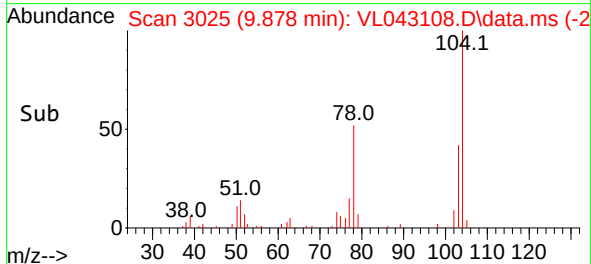
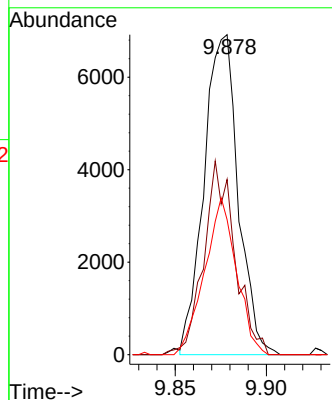
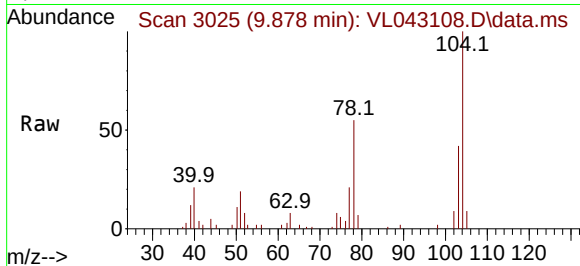




#61
Styrene
Concen: 0.489 ppbv
RT: 9.878 min Scan# 3024
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

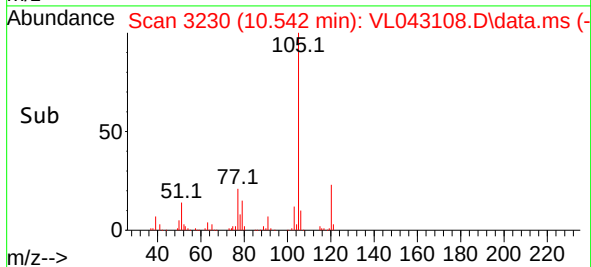
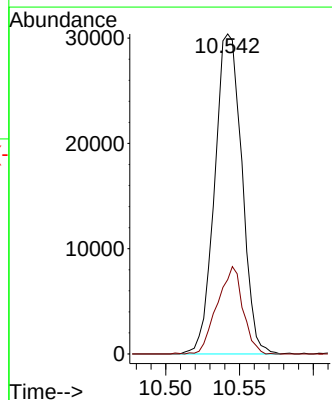
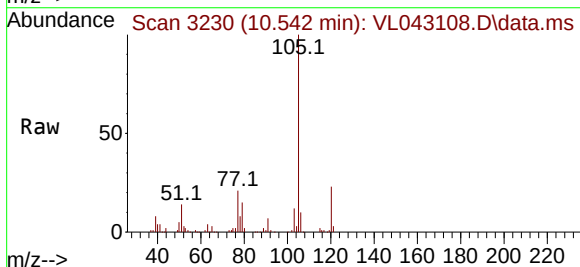
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

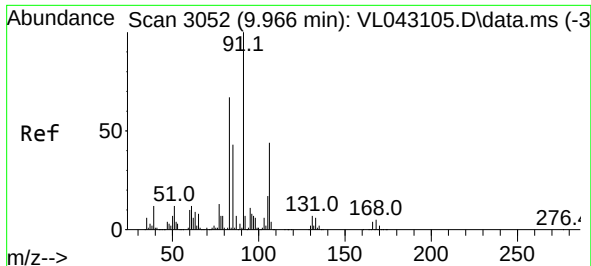
Tgt Ion:104 Resp: 9052
Ion Ratio Lower Upper
104 100
78 55.0 40.2 60.2
103 45.6 36.9 55.3



#62
Isopropylbenzene
Concen: 0.525 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion:105 Resp: 38899
Ion Ratio Lower Upper
105 100
120 25.8 20.2 30.4





#63

1,1,2,2-Tetrachloroethane

Concen: 0.497 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. -0.000 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

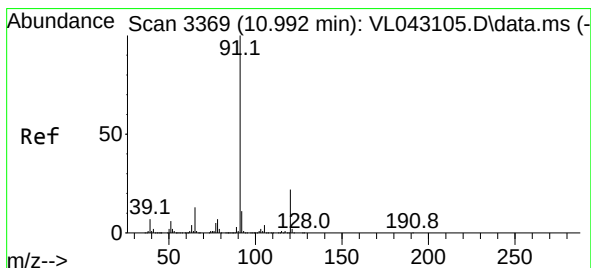
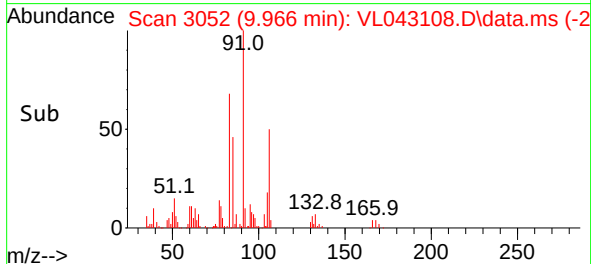
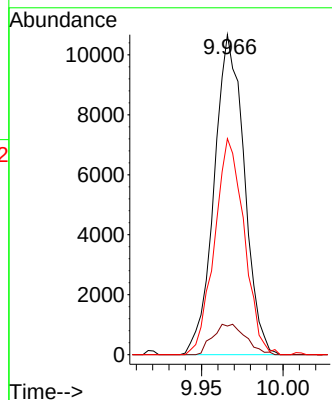
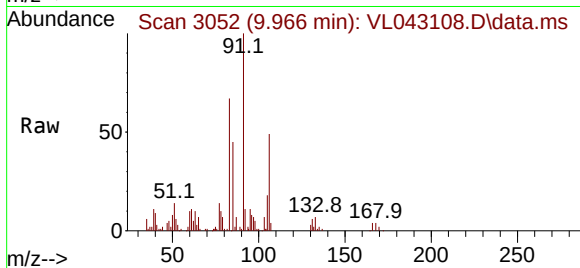
Tgt Ion: 83 Resp: 13653

Ion Ratio Lower Upper

83 100

131 10.5 4.8 14.3

85 66.7 32.0 96.0



#64

n-propylbenzene

Concen: 0.532 ppbv

RT: 10.992 min Scan# 3369

Delta R.T. -0.000 min

Lab File: VL043108.D

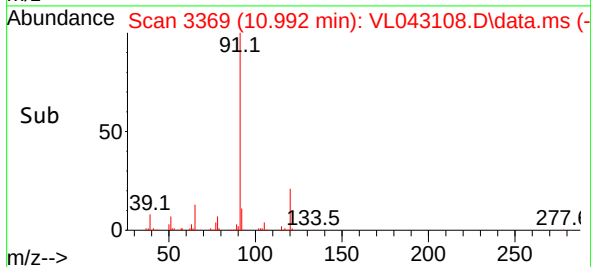
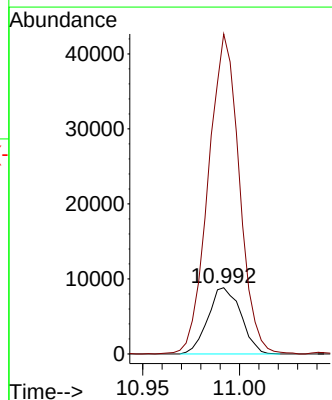
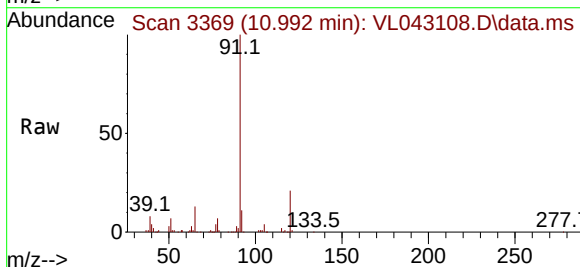
Acq: 14 Oct 2025 12:34

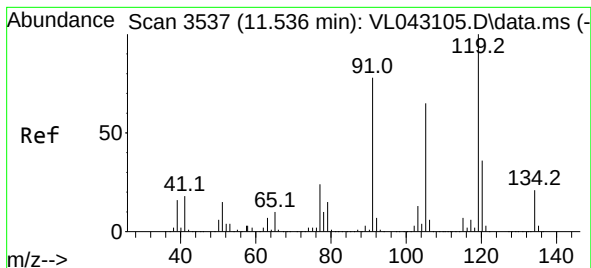
Tgt Ion: 120 Resp: 10435

Ion Ratio Lower Upper

120 100

91 455.0 361.6 542.4





#65

tert-Butylbenzene

Concen: 0.543 ppbv

RT: 11.532 min Scan# 3537

Delta R.T. -0.003 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

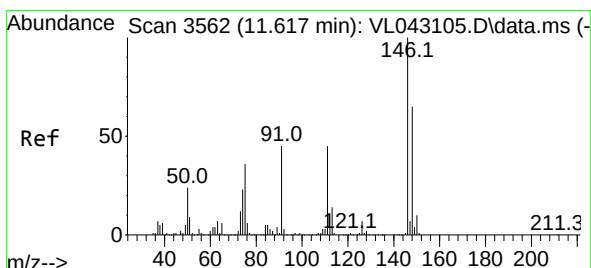
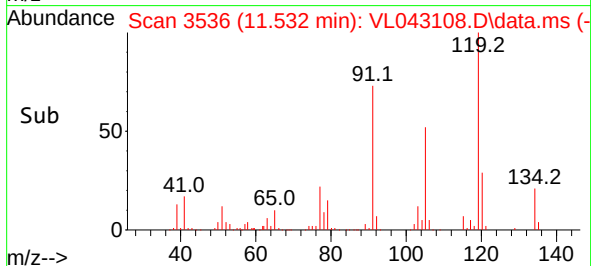
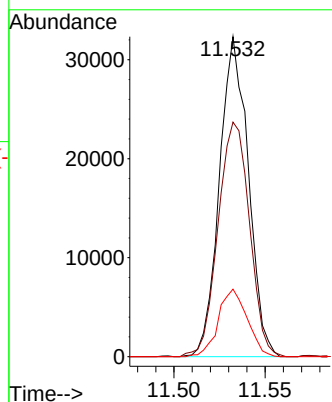
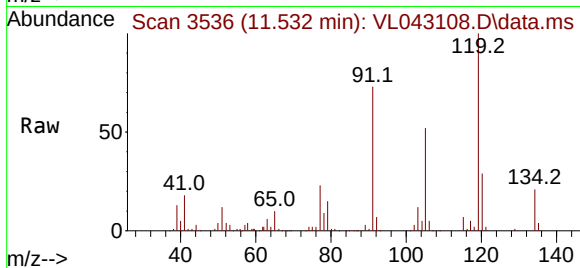
Tgt Ion:119 Resp: 35537

Ion Ratio Lower Upper

119 100

91 80.0 63.4 95.0

134 21.2 17.3 25.9



#66

Benzyl Chloride

Concen: 0.476 ppbv

RT: 11.620 min Scan# 3563

Delta R.T. 0.003 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

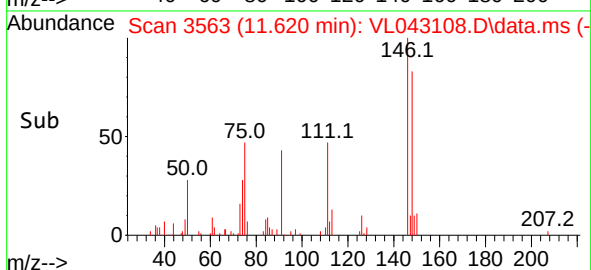
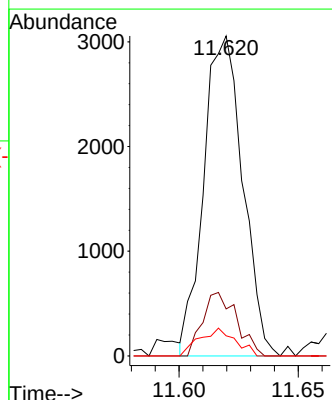
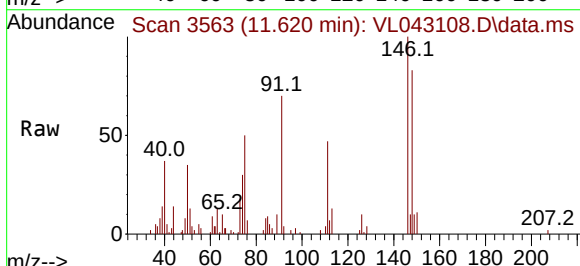
Tgt Ion: 91 Resp: 3477

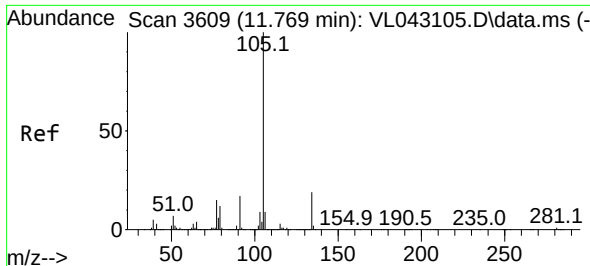
Ion Ratio Lower Upper

91 100

126 17.3 14.6 22.0

128 7.9 4.6 6.8#





#67

sec-Butylbenzene

Concen: 0.541 ppbv

RT: 11.769 min Scan# 3609

Delta R.T. -0.000 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Instrument :

MSVOA_L

ClientSampleId :

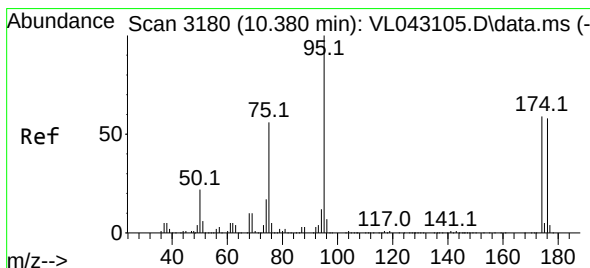
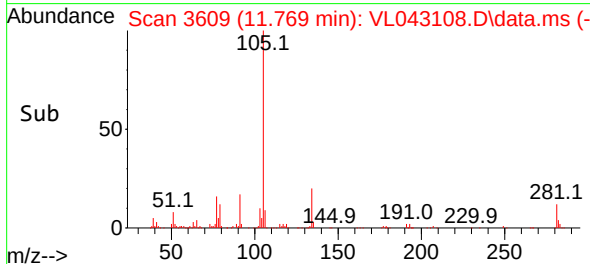
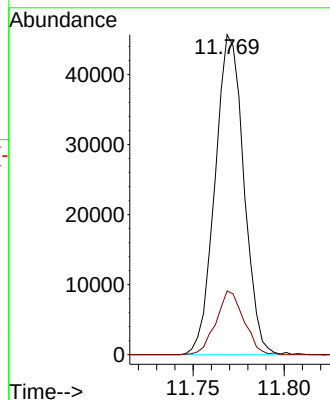
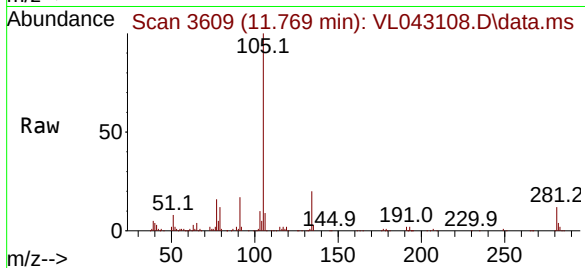
VSTDIC0.5

Tgt Ion:105 Resp: 50259

Ion Ratio Lower Upper

105 100

134 19.3 15.5 23.3



#68

1-Bromo-4-Fluorobenzene

Concen: 9.875 ppbv

RT: 10.380 min Scan# 3180

Delta R.T. -0.000 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

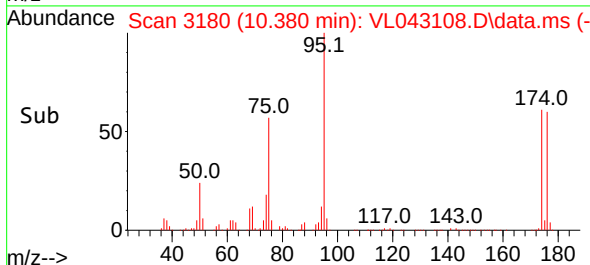
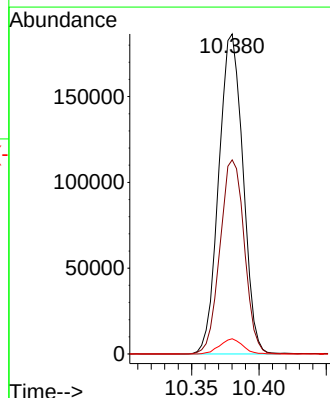
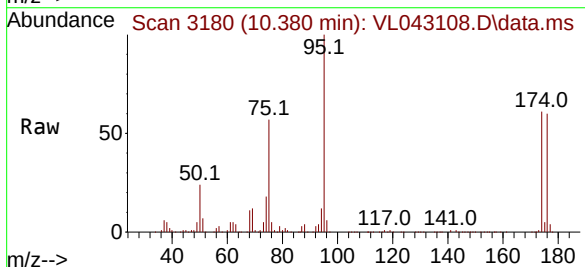
Tgt Ion: 95 Resp: 232904

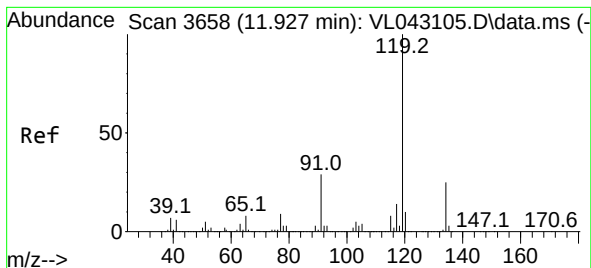
Ion Ratio Lower Upper

95 100

174 61.0 48.3 72.5

175 4.5 3.8 5.8





#69

p-Isopropyltoluene

Concen: 0.524 ppbv

RT: 11.927 min Scan# 3658

Delta R.T. -0.000 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.5

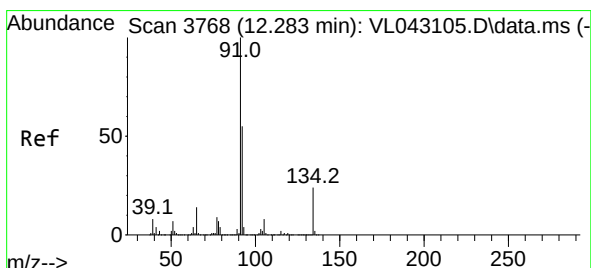
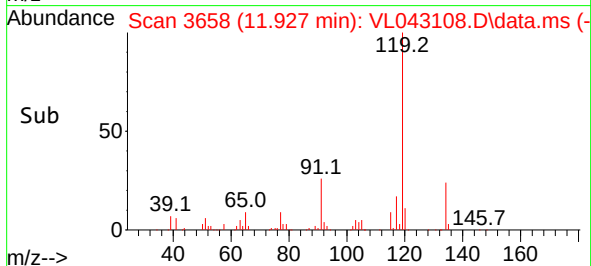
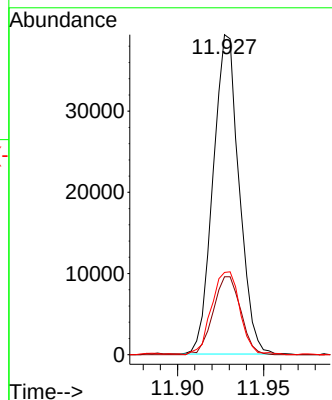
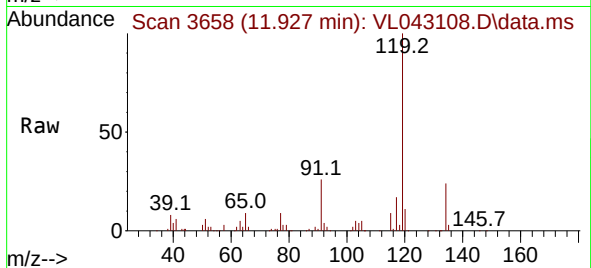
Tgt Ion:119 Resp: 41366

Ion Ratio Lower Upper

119 100

134 25.8 20.3 30.5

91 28.9 22.6 33.8



#70

n-Butylbenzene

Concen: 0.509 ppbv

RT: 12.283 min Scan# 3768

Delta R.T. -0.000 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

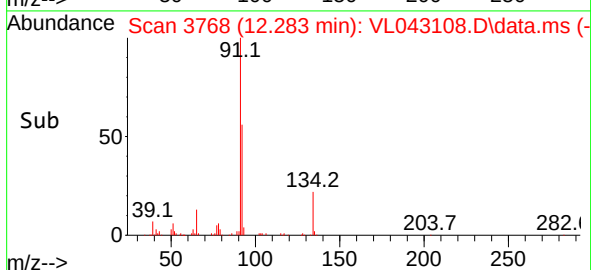
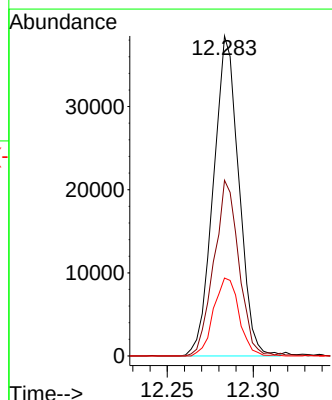
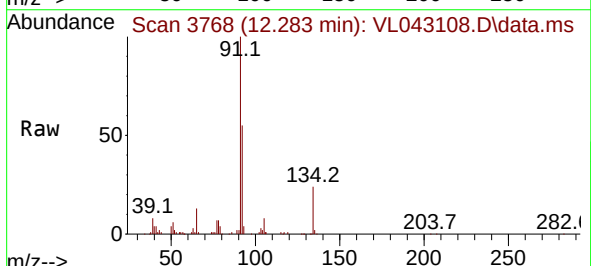
Tgt Ion: 91 Resp: 39620

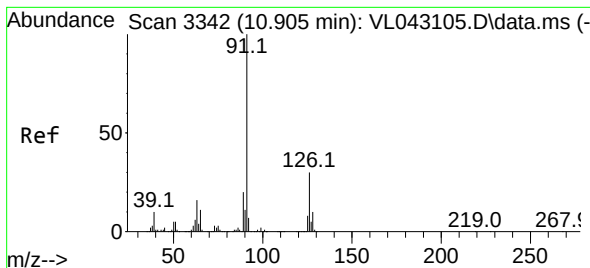
Ion Ratio Lower Upper

91 100

92 54.2 44.5 66.7

134 24.4 19.3 28.9





#71

2-Chlorotoluene

Concen: 0.526 ppbv

RT: 10.901 min Scan# 31

Delta R.T. -0.003 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Instrument :

MSVOA_1

ClientSampleId :

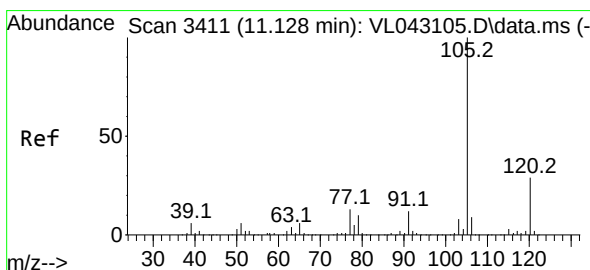
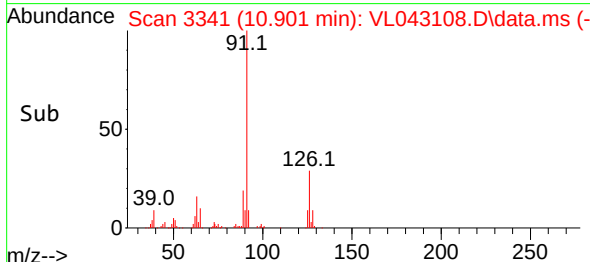
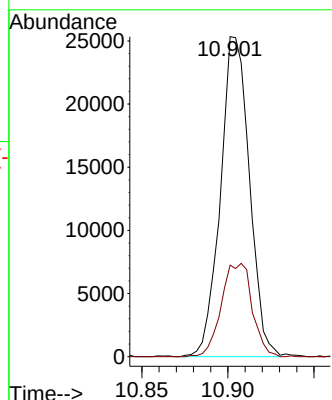
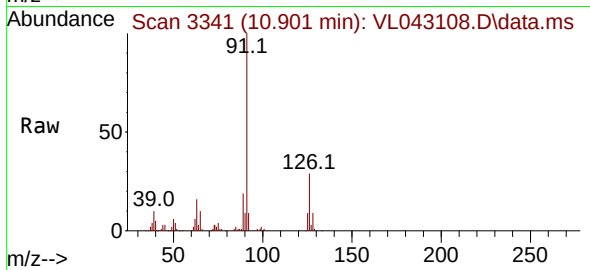
VSTDICC0.5

Tgt Ion: 91 Resp: 29722

Ion Ratio Lower Upper

91 100

126 30.9 12.0 48.0



#72

4-Ethyltoluene

Concen: 0.524 ppbv

RT: 11.128 min Scan# 3411

Delta R.T. -0.000 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Tgt Ion: 105 Resp: 26408

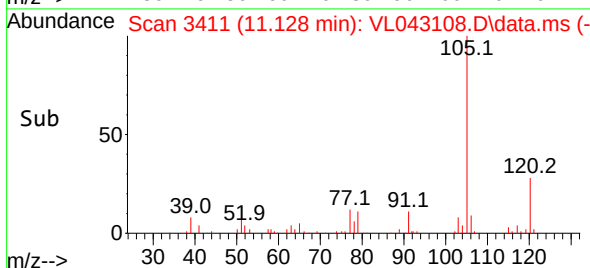
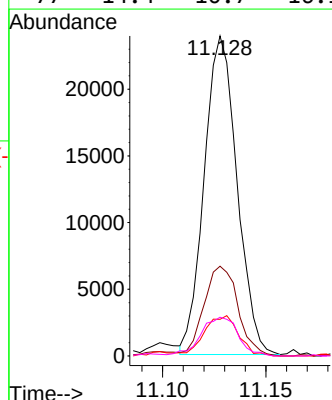
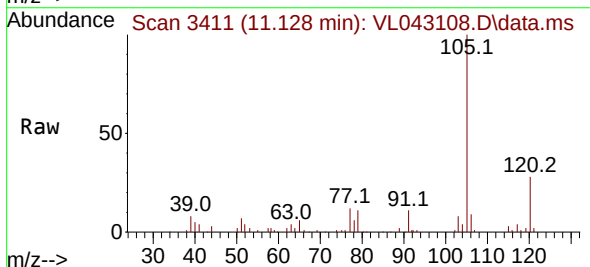
Ion Ratio Lower Upper

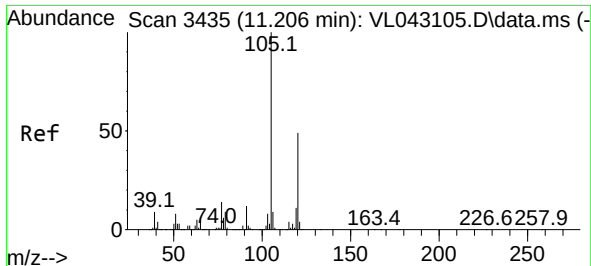
105 100

120 30.8 24.2 36.4

91 14.6 10.0 15.0

77 14.4 10.7 16.1

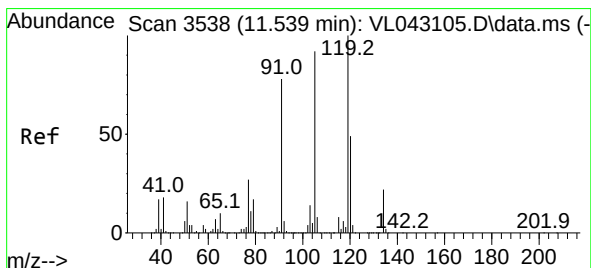
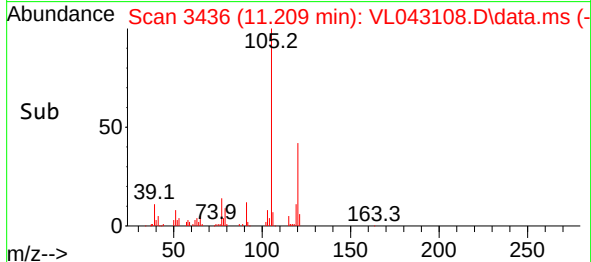
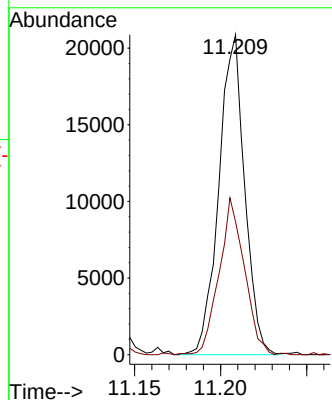
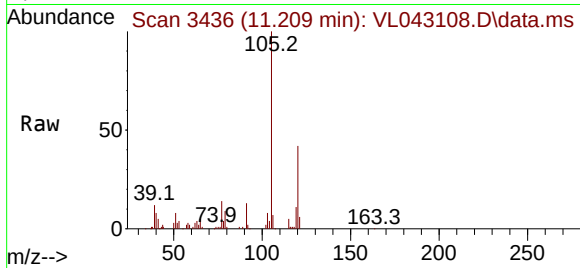




#73
1,3,5-Trimethylbenzene
Concen: 0.523 ppbv
RT: 11.209 min Scan# 3436
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

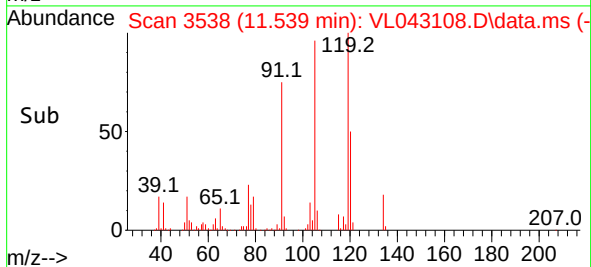
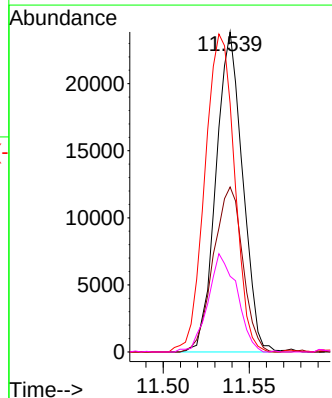
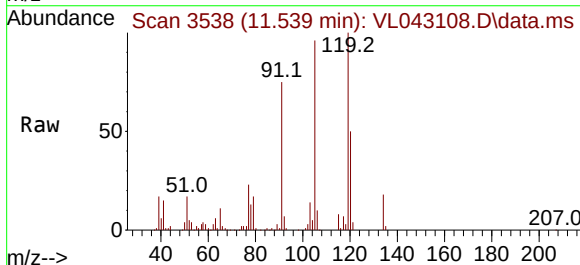
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

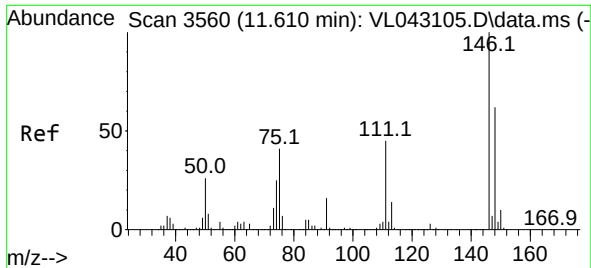
Tgt Ion:105 Resp: 21754
Ion Ratio Lower Upper
105 100
120 41.1 39.0 58.6



#74
1,2,4-Trimethylbenzene
Concen: 0.551 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion:105 Resp: 25663
Ion Ratio Lower Upper
105 100
120 51.5 42.8 64.2
91 77.7 68.3 102.5
77 23.6 23.4 35.0

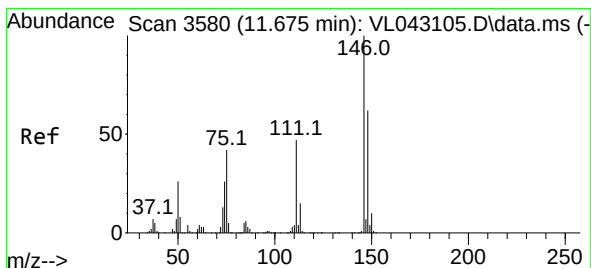
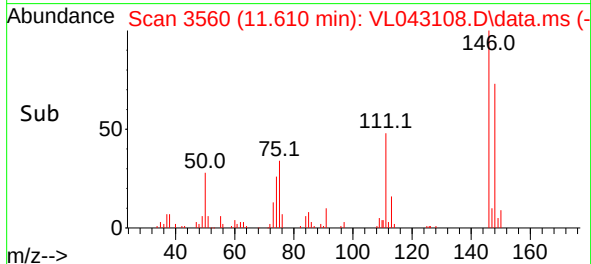
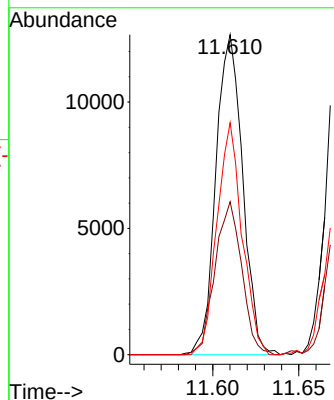
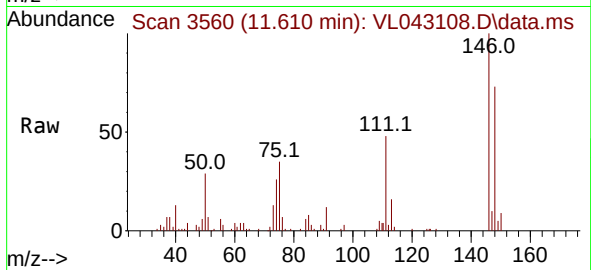




#75
1,3-Dichlorobenzene
Concen: 0.507 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

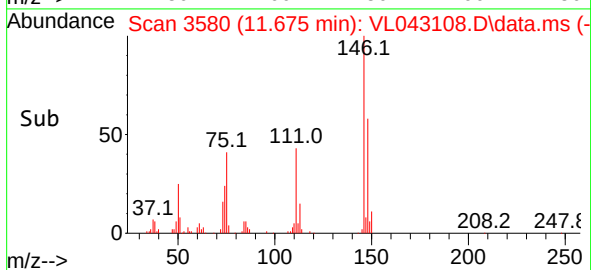
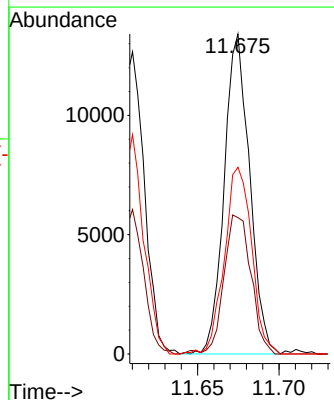
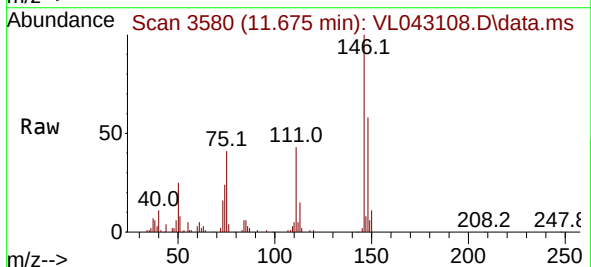
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

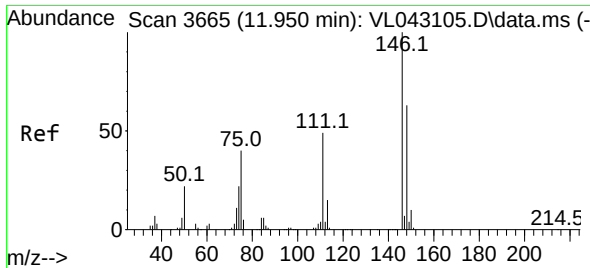
Tgt Ion:146 Resp: 13697
Ion Ratio Lower Upper
146 100
111 47.8 23.3 69.9
148 68.4 31.6 95.0



#76
1,4-Dichlorobenzene
Concen: 0.533 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion:146 Resp: 14514
Ion Ratio Lower Upper
146 100
111 46.4 22.4 67.0
148 62.7 31.6 94.7

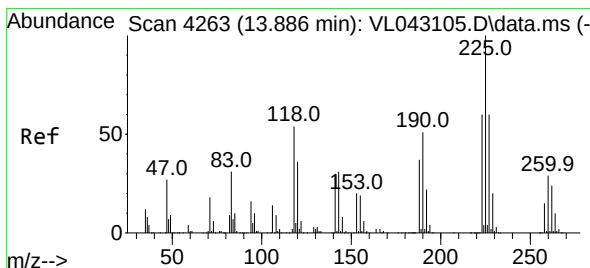
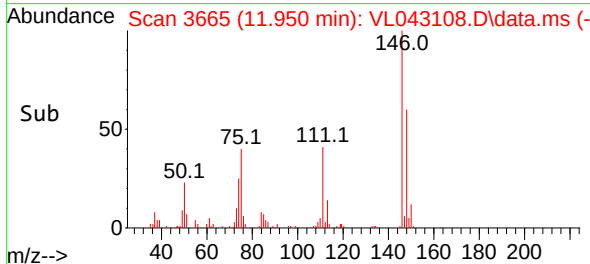
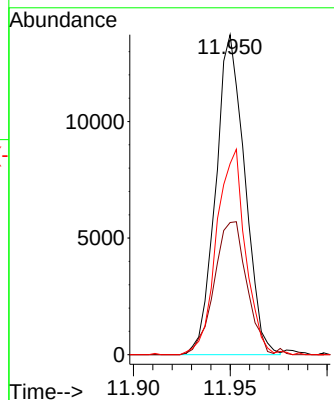
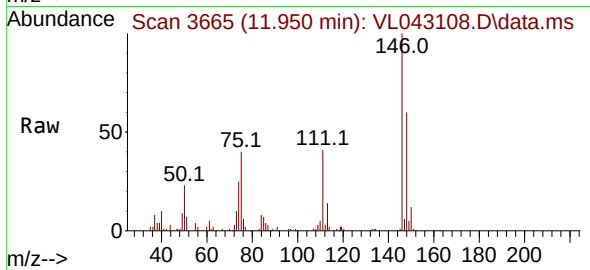




#77
1,2-Dichlorobenzene
Concen: 0.548 ppbv
RT: 11.950 min Scan# 3665
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

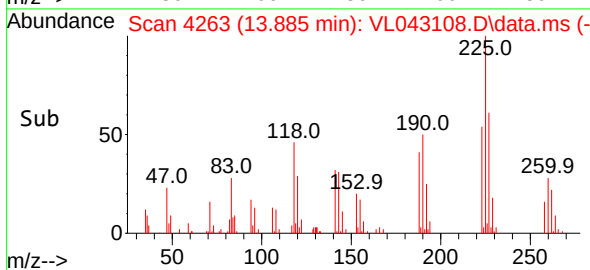
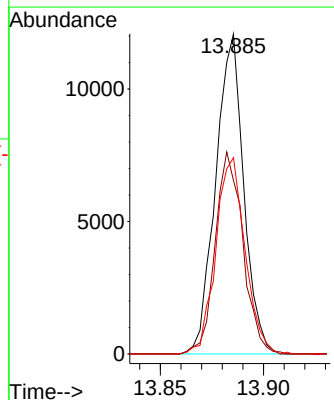
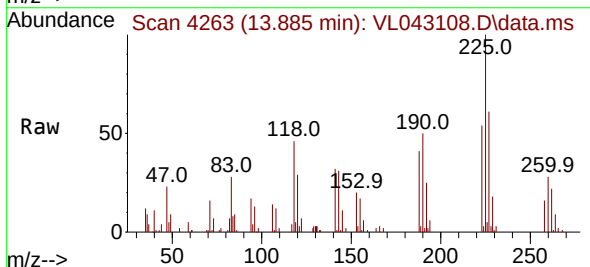
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

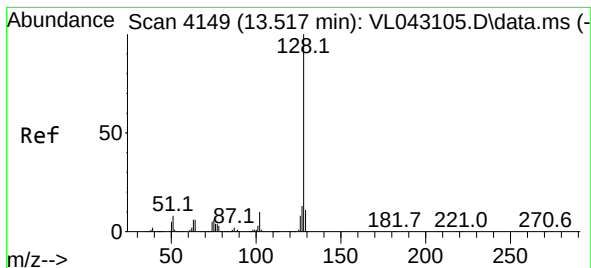
Tgt Ion:146 Resp: 14324
Ion Ratio Lower Upper
146 100
111 46.9 24.0 72.0
148 64.1 31.1 93.3



#78
Hexachloro-1,3-Butadiene
Concen: 0.564 ppbv
RT: 13.885 min Scan# 4263
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion:225 Resp: 11400
Ion Ratio Lower Upper
225 100
223 62.4 50.2 75.4
227 64.2 49.6 74.4





#79

Naphthalene

Concen: 0.483 ppbv

RT: 13.516 min Scan# 4149

Delta R.T. -0.000 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.5

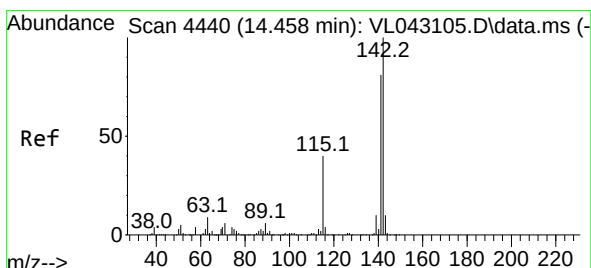
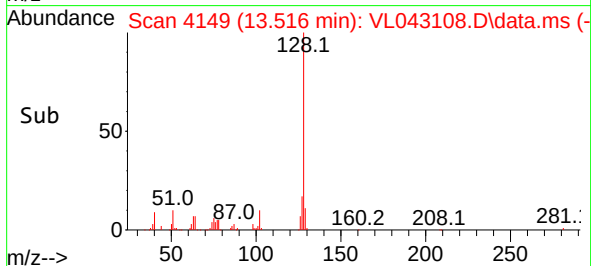
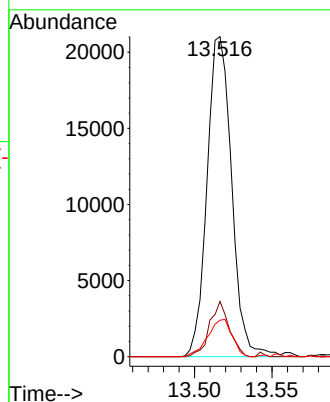
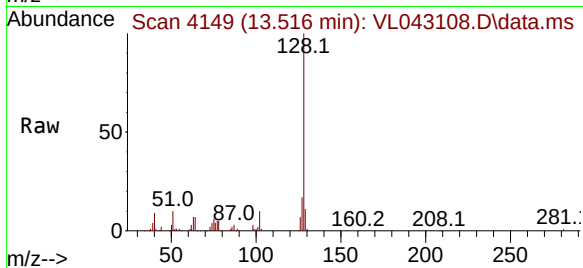
Tgt Ion:128 Resp: 23247

Ion Ratio Lower Upper

128 100

127 17.3 10.5 15.7#

129 11.4 9.1 13.7



#80

Naphthalene, 2-methyl-

Concen: 0.305 ppbv

RT: 14.462 min Scan# 4441

Delta R.T. 0.003 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

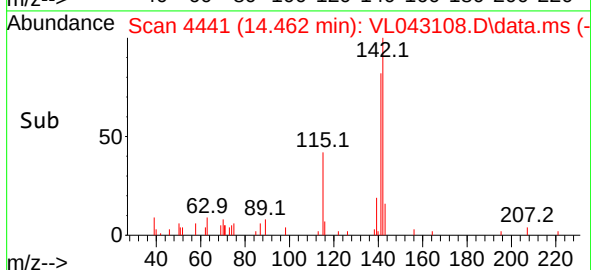
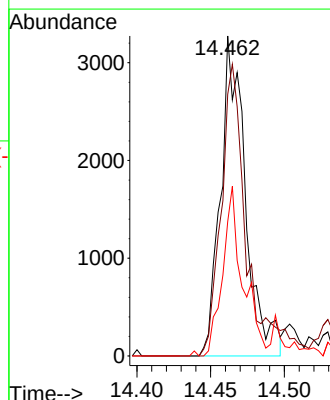
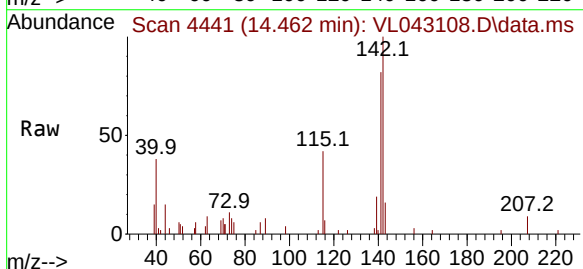
Tgt Ion:142 Resp: 3874

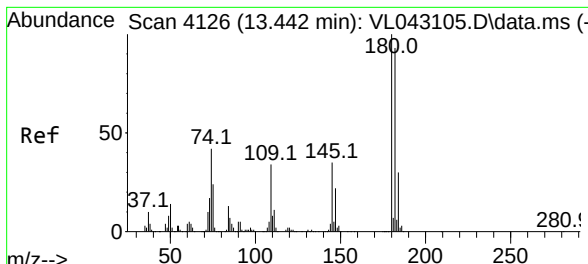
Ion Ratio Lower Upper

142 100

141 92.6 64.6 97.0

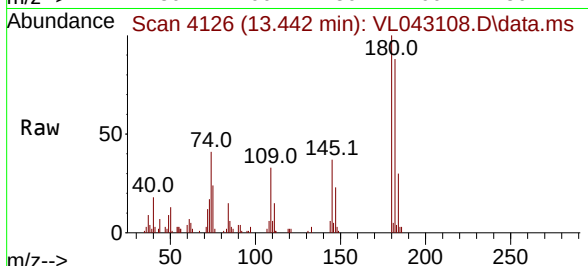
115 51.2 30.2 45.4#



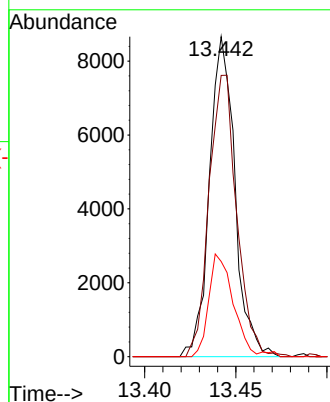
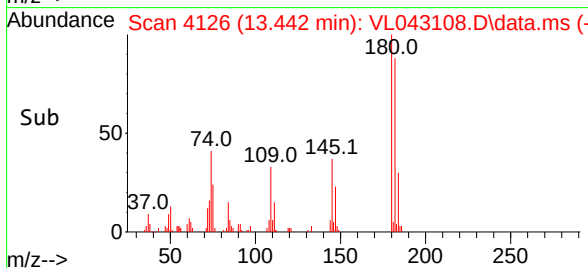


#81
 1,2,4-Trichlorobenzene
 Concen: 0.416 ppbv
 RT: 13.442 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL043108.D
 Acq: 14 Oct 2025 12:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



Tgt Ion:	180	Resp:	8395
Ion	Ratio	Lower	Upper
180	100		
182	95.8	75.5	113.3
184	31.4	23.9	35.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
 Data File : VL043109.D
 Acq On : 14 Oct 2025 13:08
 Operator : SY/MD
 Sample : VSTDICC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.1

Quant Time: Oct 15 01:54:22 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 01:49:43 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	99997	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	332574	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	299676	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	233673	10.032	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.300%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	1417	0.100	ppbv	96
3) Chlorodifluoromethane	1.479	51	1709	0.111	ppbv #	75
4) Chloromethane	1.534	50	746	0.132	ppbv	94
5) Vinyl Chloride	1.583	62	554	0.100	ppbv #	33
6) Bromomethane	1.667	94	479	0.158	ppbv #	61
7) Chloroethane	1.703	64	261	0.116	ppbv #	42
8) Dichlorotetrafluoroethane	1.557	85	1427	0.124	ppbv	85
9) Propene	1.486	41	689	0.101	ppbv #	1
10) Heptane	4.985	43	706	0.036	ppbv #	27
11) Trichlorofluoromethane	1.877	101	1515	0.109	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.143	101	1303	0.116	ppbv	97
13) Ethanol	1.725	45	327	0.130	ppbv #	27
14) Bromoethene	1.787	108	443	0.107	ppbv #	50
15) Acetone	1.839	43	2487	0.184	ppbv	93
16) 1,3-Butadiene	1.612	39	770	0.120	ppbv #	49
17) tert-Butyl alcohol	2.043	59	2301	0.124	ppbv #	3
18) 1,1-Dichloroethene	2.036	96	720	0.148	ppbv #	67
19) Isopropyl Alcohol	1.887	45	1443	0.172	ppbv #	53
20) Methylene Chloride	2.062	84	1890	0.355	ppbv #	77
21) Allyl Chloride	2.098	41	1664	0.167	ppbv #	43
22) trans-1,2-Dichloroethene	2.036	96	720	0.123	ppbv	86
23) Vinyl Acetate	2.467	43	2916	0.148	ppbv #	91
24) 1,1-Dichloroethane	2.408	63	1367	0.121	ppbv #	91
25) Ethyl Acetate	2.836	43	1114	0.033	ppbv #	66
26) Hexane	2.829	57	2134	0.139	ppbv	94
27) Carbon Disulfide	2.153	76	1609	0.114	ppbv #	1
28) Methyl tert-Butyl Ether	2.437	73	351	0.050	ppbv #	49
29) Chloroform	2.855	83	1225	0.055	ppbv	89
30) Cyclohexane	3.868	84	340	0.025	ppbv #	1
31) cis-1,2-Dichloroethene	2.725	61	1605	0.109	ppbv #	88
32) 1,1,1-Trichloroethane	3.373	97	1581	0.068	ppbv #	60
34) 2-Butanone	2.564	43	2560	0.114	ppbv	94
35) Carbon Tetrachloride	3.370	117	231	0.010	ppbv	90
36) Benzene	3.658	78	3507	0.112	ppbv	96
37) 1,2-Dichloroethane	3.224	62	1448	0.080	ppbv #	93
38) Trichloroethene	4.551	130	242	0.019	ppbv #	7
39) 1,2-Dichloropropane	3.962	63	80849	7.054	ppbv #	25
40) 1,4-Dioxane	4.609	88	339	0.066	ppbv #	38
41) Tetrahydrofuran	3.043	42	58	0.005	ppbv #	37
42) Bromodichloromethane	4.496	83	2440	0.098	ppbv #	73
43) Methyl Methacrylate	4.881	69	636	0.040	ppbv #	1
44) 2,2,4-Trimethylpentane	4.642	57	3354	0.064	ppbv #	45
45) t-1,3-Dichloropropene	6.425	75	617	0.039	ppbv	94

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
 Data File : VL043109.D
 Acq On : 14 Oct 2025 13:08
 Operator : SY/MD
 Sample : VSTDICC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.1

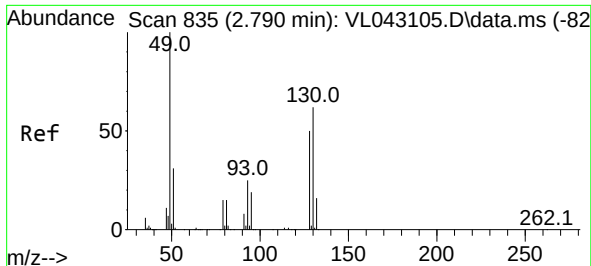
Quant Time: Oct 15 01:54:22 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 01:49:43 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.596	75	472	0.025	ppbv #	55
47) 1,1,2-Trichloroethane	6.587	97	716	0.058	ppbv #	38
48) Dibromochloromethane	7.393	129	1506	0.073	ppbv	72
49) Bromoform	9.484	173	1666	0.099	ppbv #	90
50) 4-Methyl-2-Pentanone	5.771	43	1420	0.046	ppbv #	38
51) 2-Hexanone	7.422	43	65	0.003	ppbv #	27
52) Tetrachloroethene	8.221	164	377	0.033	ppbv #	22
53) Toluene	6.940	91	1973	0.053	ppbv #	9
54) 1,2-Dibromoethane	7.658	107	2201	0.113	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.927	131	1509	0.080	ppbv #	9
57) Chlorobenzene	8.920	112	3177	0.113	ppbv #	95
58) Ethyl Benzene	9.354	91	5210	0.100	ppbv	96
59) m/p-Xylene	9.535	91	3213	0.078	ppbv #	29
60) o-Xylene	9.963	91	3450	0.085	ppbv	78
61) Styrene	9.872	104	1475	0.081	ppbv #	82
62) Isopropylbenzene	10.539	105	8132	0.111	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.966	83	3053	0.113	ppbv	90
64) n-propylbenzene	10.992	120	1906	0.098	ppbv	87
65) tert-Butylbenzene	11.532	119	6951	0.108	ppbv	97
66) Benzyl Chloride	11.617	91	277	0.038	ppbv #	78
67) sec-Butylbenzene	11.769	105	9081	0.099	ppbv	96
69) p-Isopropyltoluene	11.927	119	8105	0.104	ppbv	98
70) n-Butylbenzene	12.283	91	6640	0.086	ppbv	100
71) 2-Chlorotoluene	10.904	91	5527	0.099	ppbv	96
72) 4-Ethyltoluene	11.128	105	4754	0.095	ppbv #	92
73) 1,3,5-Trimethylbenzene	11.205	105	4680	0.114	ppbv #	85
74) 1,2,4-Trimethylbenzene	11.536	105	4519	0.098	ppbv #	94
75) 1,3-Dichlorobenzene	11.610	146	2518	0.094	ppbv	94
76) 1,4-Dichlorobenzene	11.672	146	2266	0.084	ppbv	91
77) 1,2-Dichlorobenzene	11.950	146	2676	0.104	ppbv	94
78) Hexachloro-1,3-Butadiene	13.879	225	2107	0.105	ppbv	95
79) Naphthalene	13.516	128	3453	0.073	ppbv #	97
80) Naphthalene,2-methyl-	14.478	142	582	0.046	ppbv #	28
81) 1,2,4-Trichlorobenzene	13.442	180	774	0.039	ppbv #	77

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

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

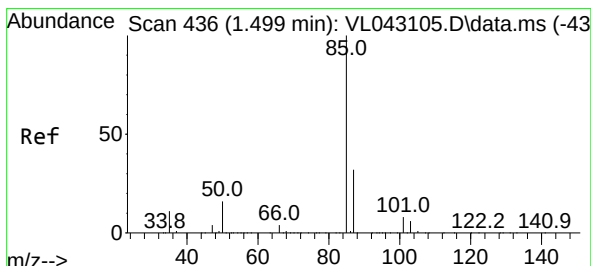
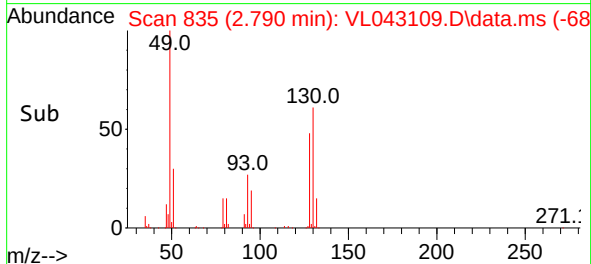
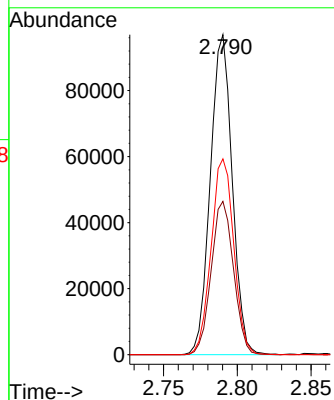
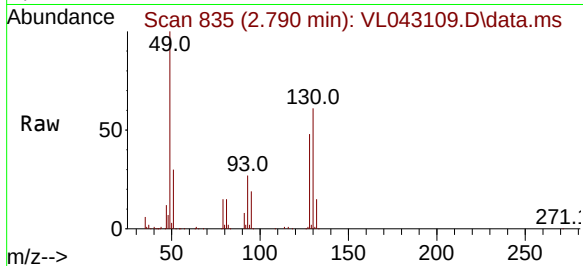
[illegible]



#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.790 min Scan# 835
 Delta R.T. 0.000 min
 Lab File: VL043109.D
 Acq: 14 Oct 2025 13:08

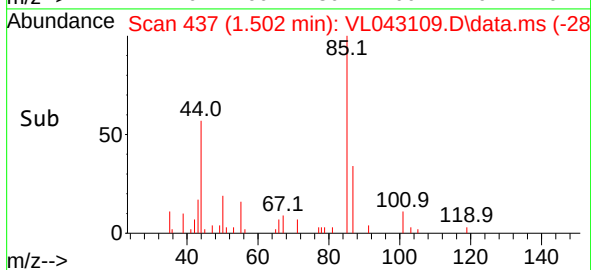
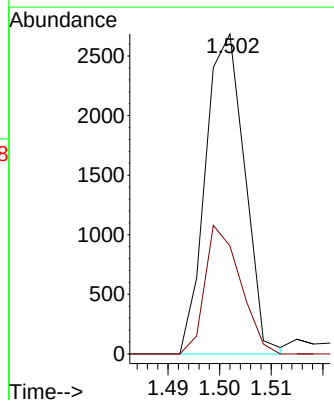
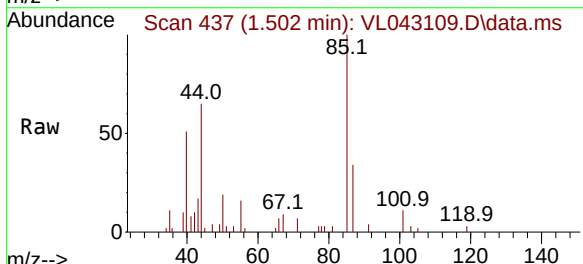
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

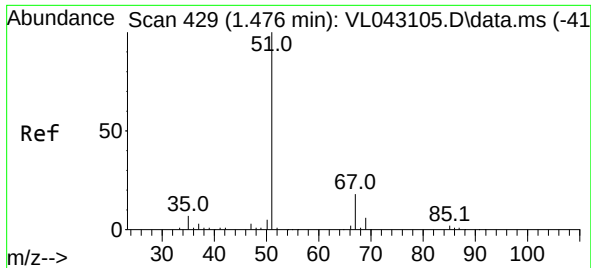
Tgt Ion: 49 Resp: 99997
 Ion Ratio Lower Upper
 49 100
 128 48.9 24.4 73.4
 130 63.3 31.0 93.0



#2
 Dichlorodifluoromethane
 Concen: 0.100 ppbv
 RT: 1.502 min Scan# 437
 Delta R.T. 0.003 min
 Lab File: VL043109.D
 Acq: 14 Oct 2025 13:08

Tgt Ion: 85 Resp: 1417
 Ion Ratio Lower Upper
 85 100
 87 33.7 25.3 37.9

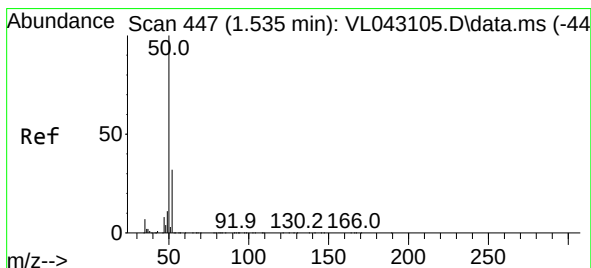
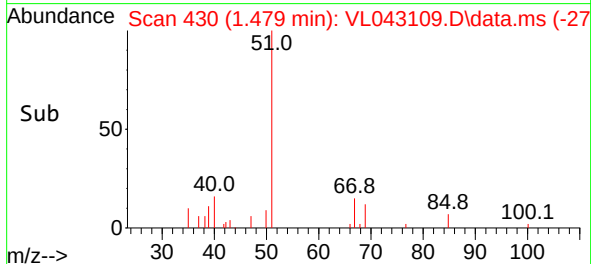
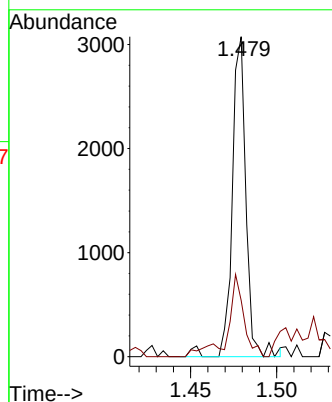
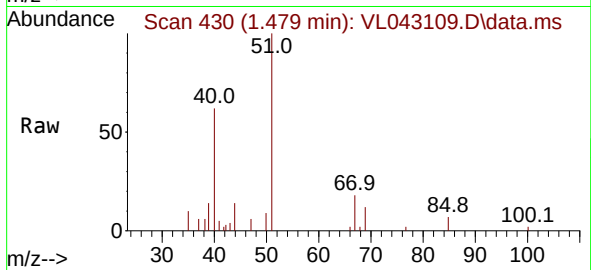




#3
Chlorodifluoromethane
Concen: 0.111 ppbv
RT: 1.479 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

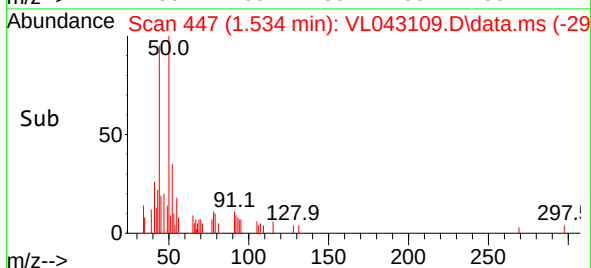
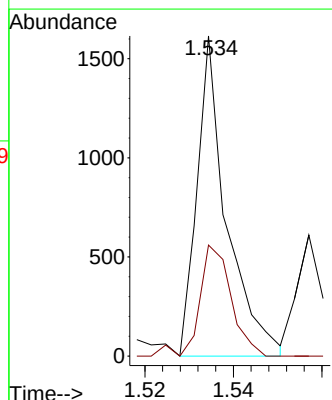
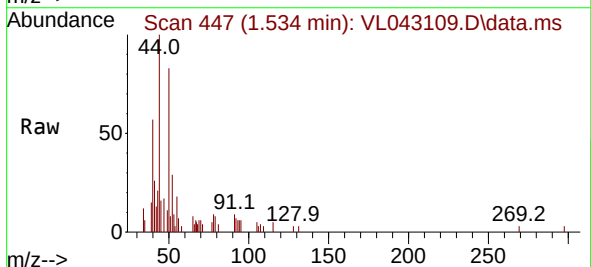
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

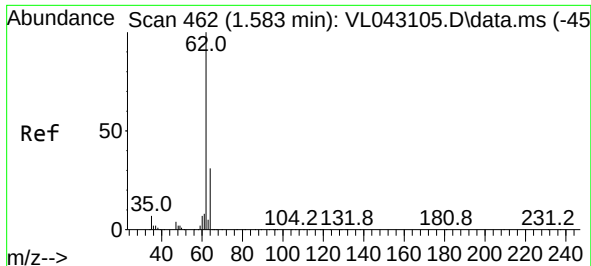
Tgt Ion: 51 Resp: 1709
Ion Ratio Lower Upper
51 100
67 30.1 15.1 22.7#



#4
Chloromethane
Concen: 0.132 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion: 50 Resp: 746
Ion Ratio Lower Upper
50 100
52 34.7 25.2 37.8

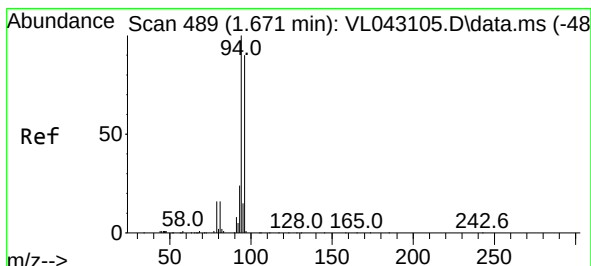
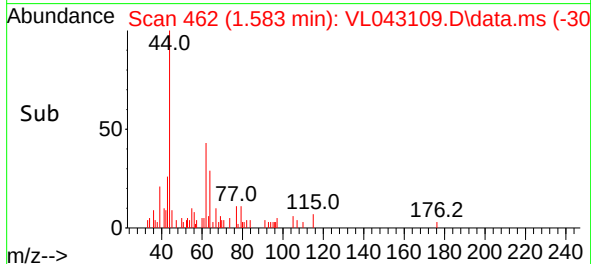
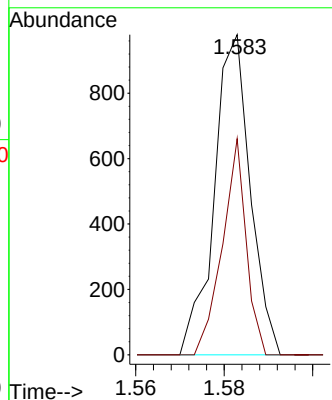
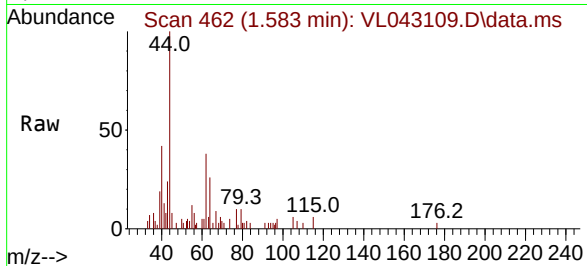




#5
 Vinyl Chloride
 Concen: 0.100 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. -0.000 min
 Lab File: VL043109.D
 Acq: 14 Oct 2025 13:08

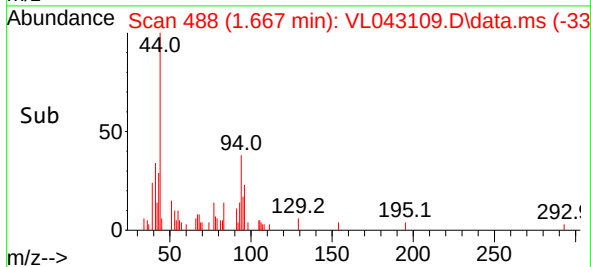
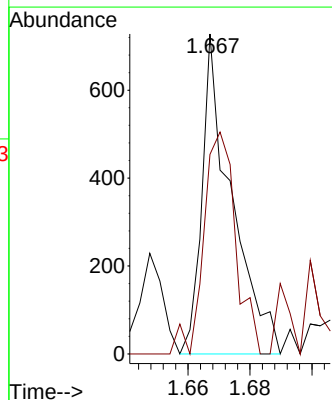
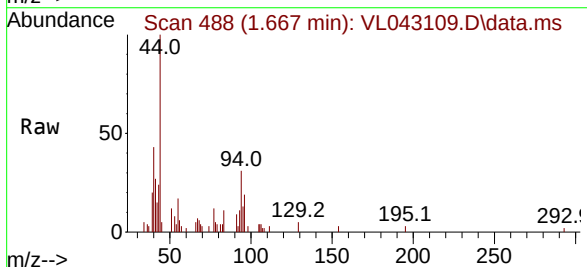
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

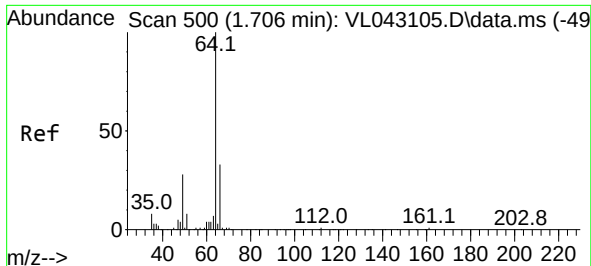
Tgt Ion: 62 Resp: 554
 Ion Ratio Lower Upper
 62 100
 64 67.5 24.6 36.8#



#6
 Bromomethane
 Concen: 0.158 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. -0.003 min
 Lab File: VL043109.D
 Acq: 14 Oct 2025 13:08

Tgt Ion: 94 Resp: 479
 Ion Ratio Lower Upper
 94 100
 96 53.0 72.2 108.4#

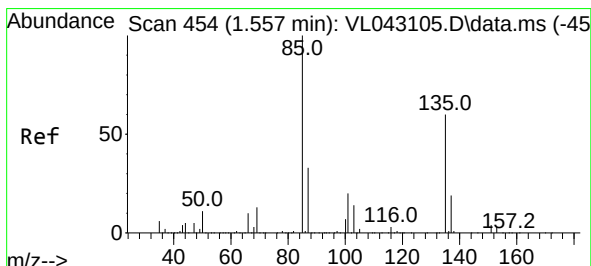
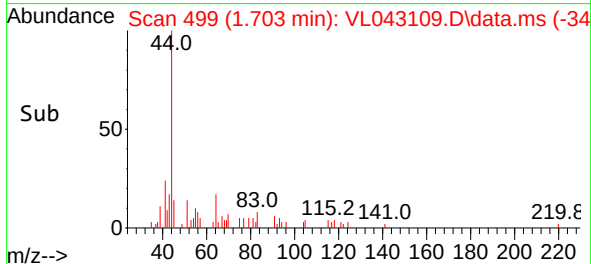
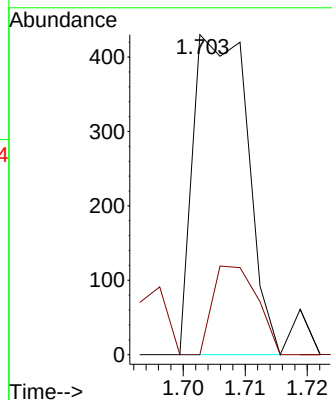
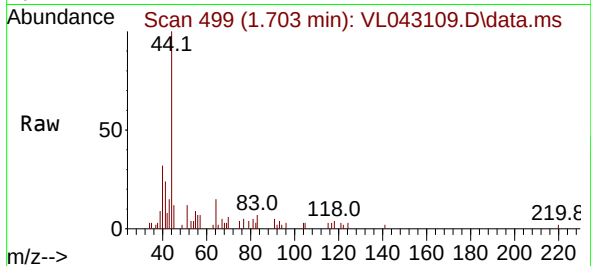




#7
Chloroethane
Concen: 0.116 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

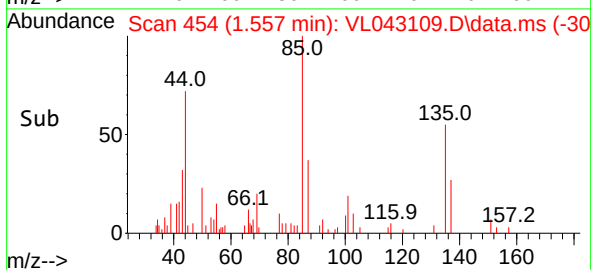
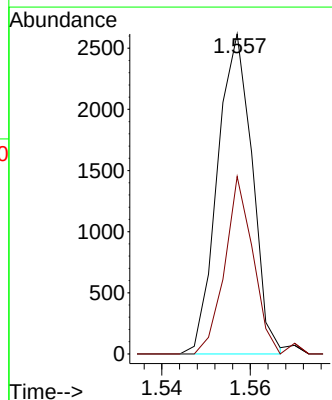
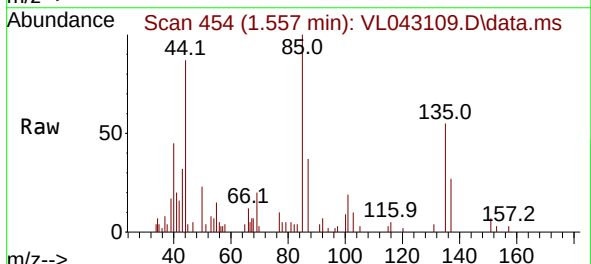
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

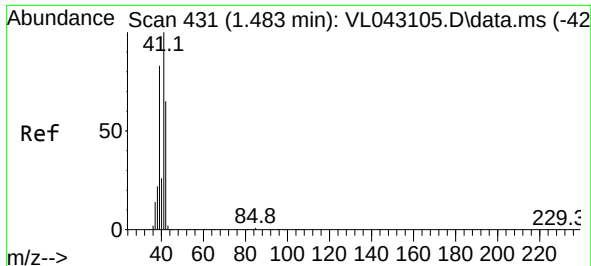
Tgt Ion: 64 Resp: 261
Ion Ratio Lower Upper
64 100
66 0.0 26.0 39.0#



#8
Dichlorotetrafluoroethane
Concen: 0.124 ppbv
RT: 1.557 min Scan# 454
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion: 85 Resp: 1427
Ion Ratio Lower Upper
85 100
135 48.7 48.2 72.4





#9

Propene

Concen: 0.101 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL043109.D

Acq: 14 Oct 2025 13:08

Instrument :

MSVOA_1

ClientSampleId :

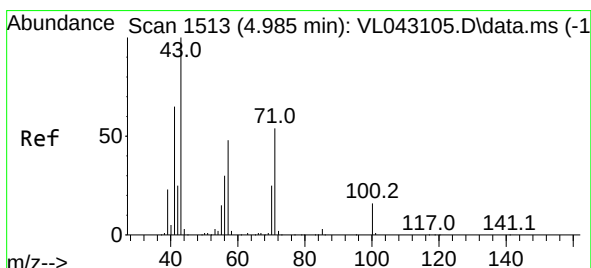
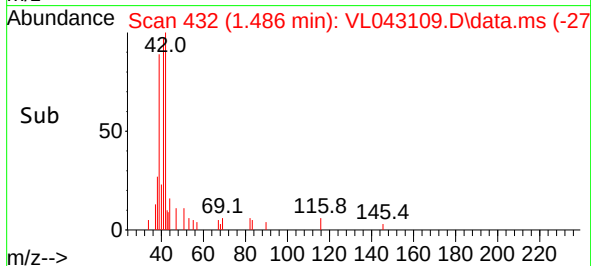
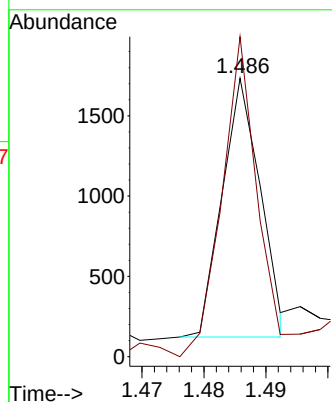
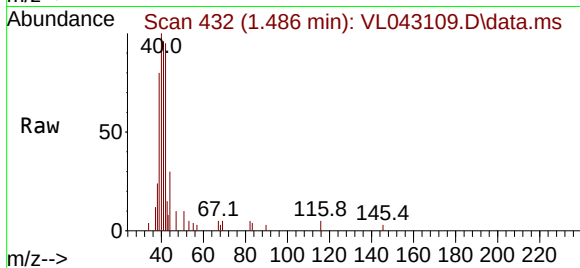
VSTDIC0.1

Tgt Ion: 41 Resp: 689

Ion Ratio Lower Upper

41 100

42 168.5 55.1 82.7#



#10

Heptane

Concen: 0.036 ppbv

RT: 4.985 min Scan# 1513

Delta R.T. -0.000 min

Lab File: VL043109.D

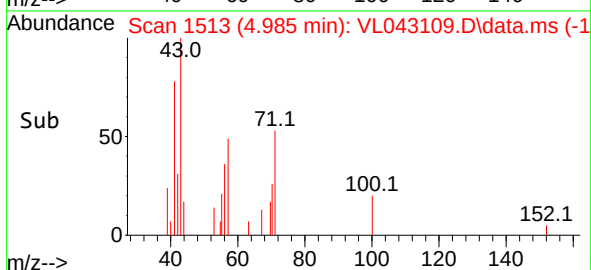
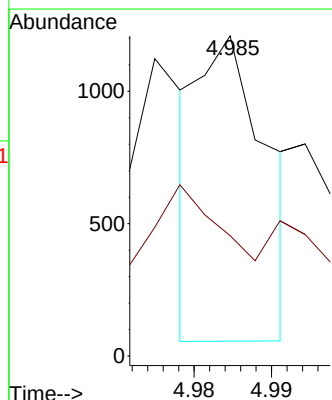
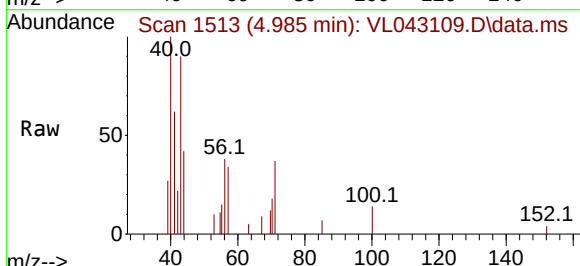
Acq: 14 Oct 2025 13:08

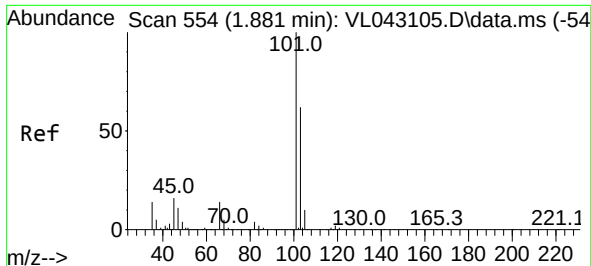
Tgt Ion: 43 Resp: 706

Ion Ratio Lower Upper

43 100

57 0.0 40.8 61.2#

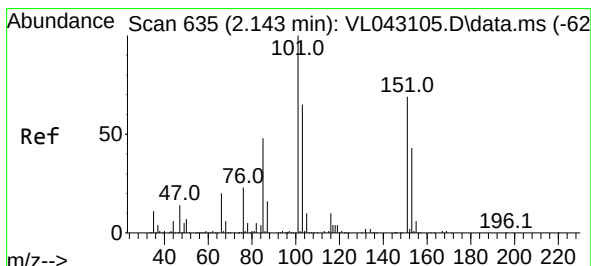
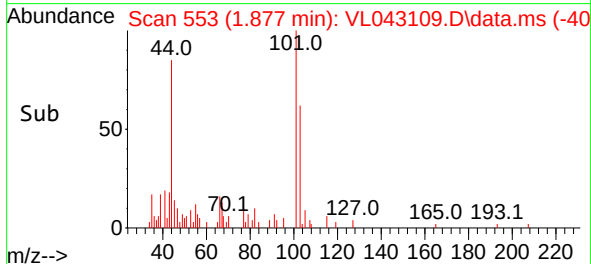
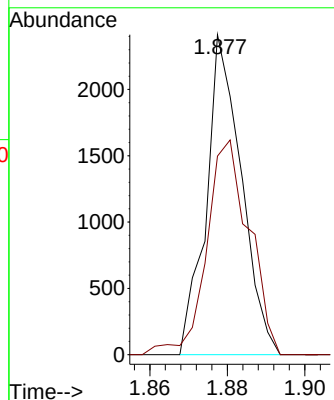
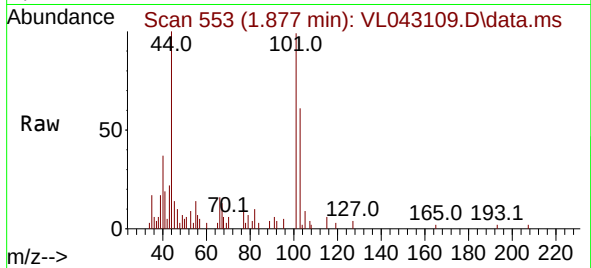




#11
 Trichlorofluoromethane
 Concen: 0.109 ppbv
 RT: 1.877 min Scan# 511
 Delta R.T. -0.003 min
 Lab File: VL043109.D
 Acq: 14 Oct 2025 13:08

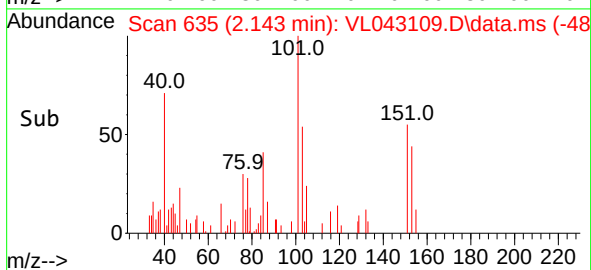
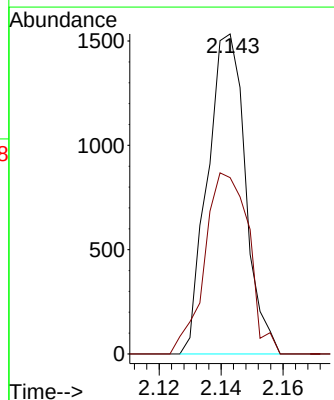
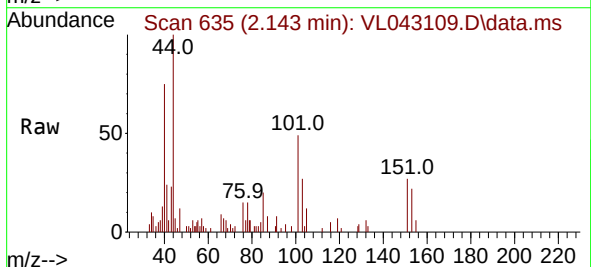
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

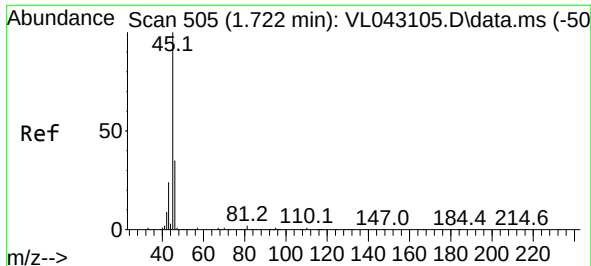
Tgt Ion:101 Resp: 1515
 Ion Ratio Lower Upper
 101 100
 103 62.1 49.3 73.9



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.116 ppbv
 RT: 2.143 min Scan# 635
 Delta R.T. -0.000 min
 Lab File: VL043109.D
 Acq: 14 Oct 2025 13:08

Tgt Ion:101 Resp: 1303
 Ion Ratio Lower Upper
 101 100
 151 65.7 54.7 82.1

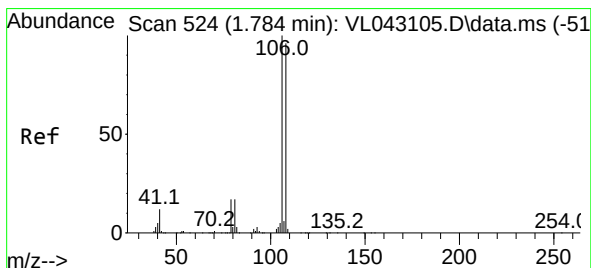
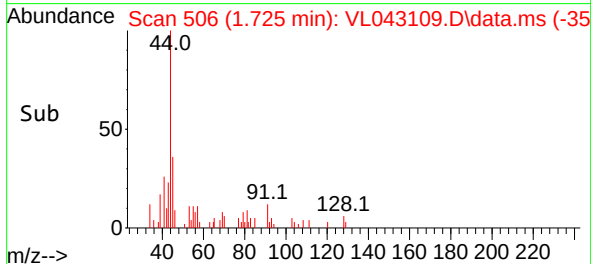
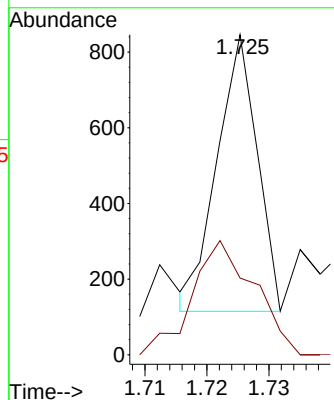
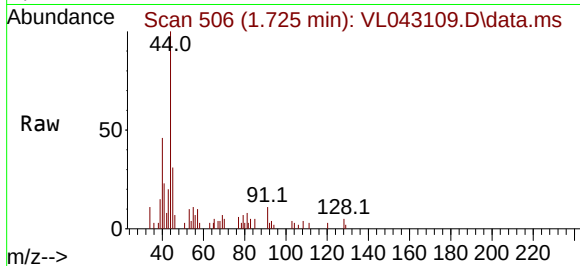




#13
Ethanol
Concen: 0.130 ppbv
RT: 1.725 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

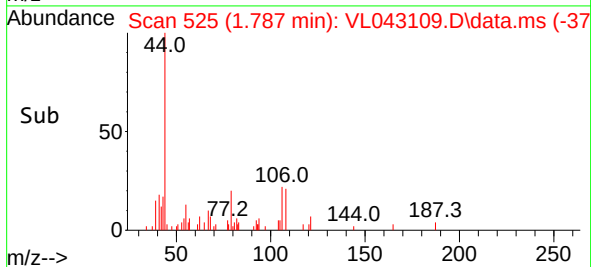
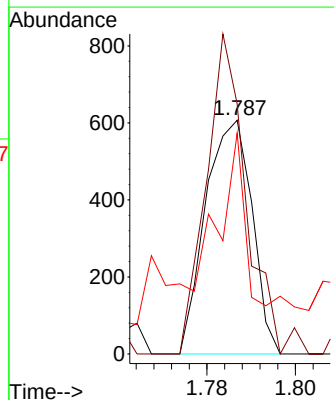
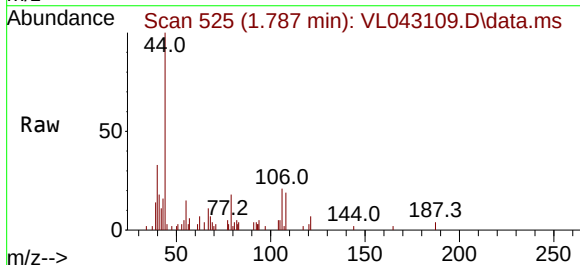
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

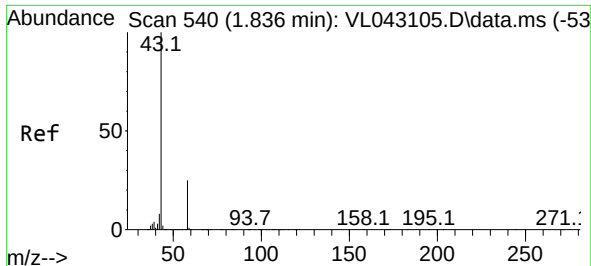
Tgt Ion: 45 Resp: 327
Ion Ratio Lower Upper
45 100
46 80.1 14.7 58.9#



#14
Bromoethene
Concen: 0.107 ppbv
RT: 1.787 min Scan# 525
Delta R.T. 0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion: 108 Resp: 443
Ion Ratio Lower Upper
108 100
106 133.2 84.4 126.6#
79 99.1 15.3 22.9#





#15

Acetone

Concen: 0.184 ppbv

RT: 1.839 min Scan# 540

Delta R.T. 0.003 min

Lab File: VL043109.D

Acq: 14 Oct 2025 13:08

Instrument :

MSVOA_1

ClientSampleId :

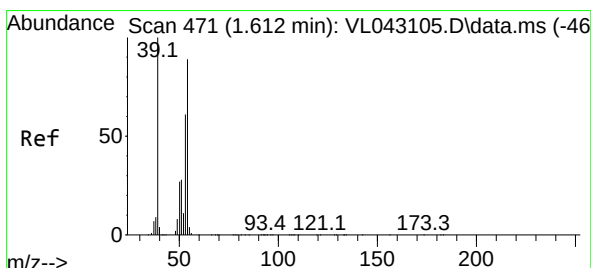
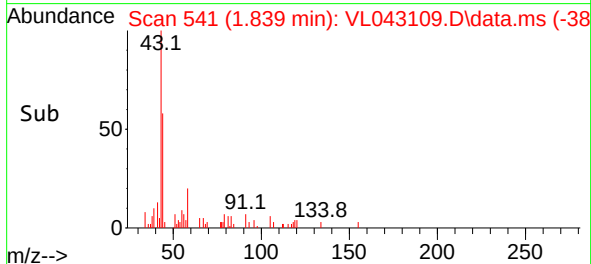
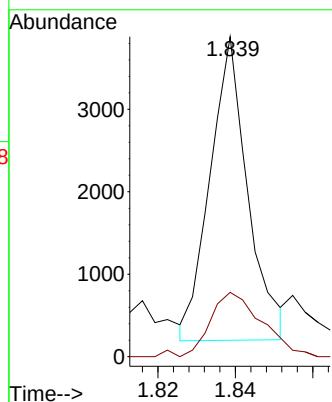
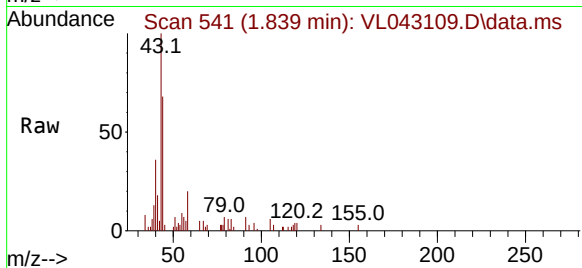
VSTDIC0.1

Tgt Ion: 43 Resp: 2487

Ion Ratio Lower Upper

43 100

58 29.5 20.8 31.2



#16

1,3-Butadiene

Concen: 0.120 ppbv

RT: 1.612 min Scan# 471

Delta R.T. -0.000 min

Lab File: VL043109.D

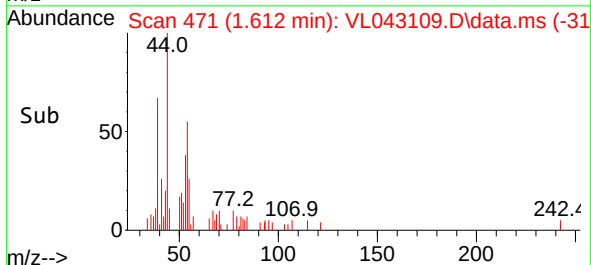
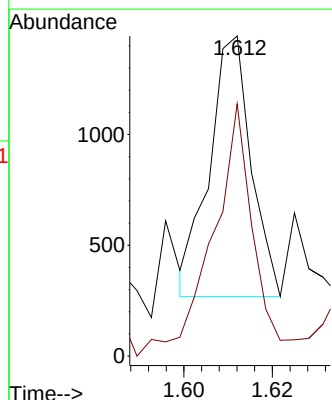
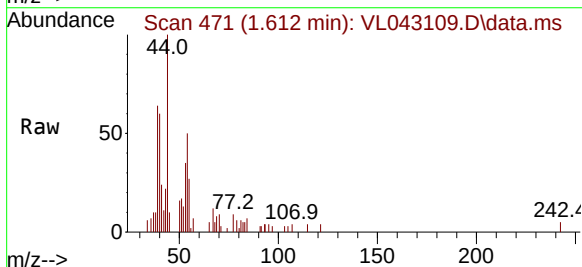
Acq: 14 Oct 2025 13:08

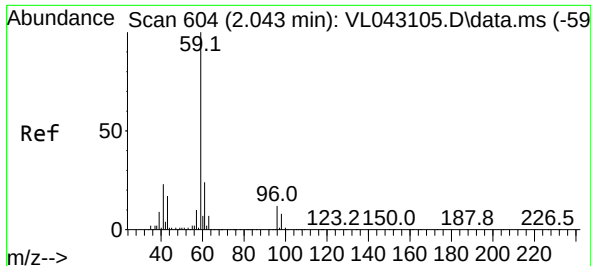
Tgt Ion: 39 Resp: 770

Ion Ratio Lower Upper

39 100

54 116.8 59.0 88.4#





#17

tert-Butyl alcohol

Concen: 0.124 ppbv

RT: 2.043 min Scan# 604

Delta R.T. -0.000 min

Lab File: VL043109.D

Acq: 14 Oct 2025 13:08

Instrument :

MSVOA_1

ClientSampleId :

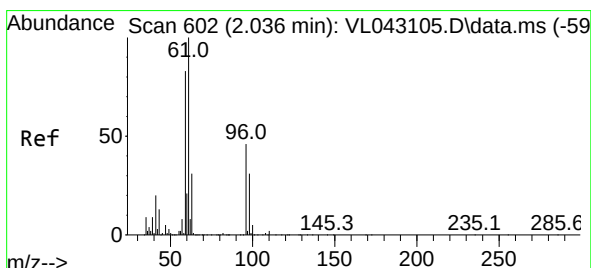
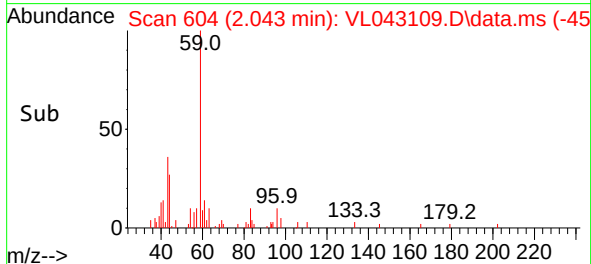
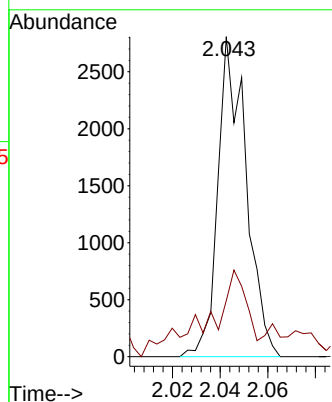
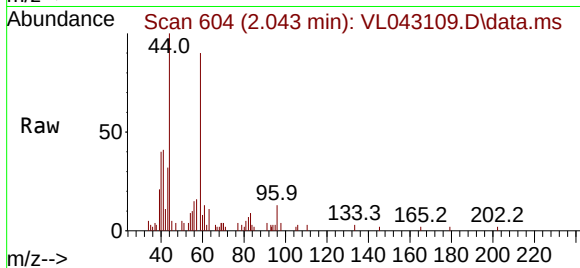
VSTDICC0.1

Tgt Ion: 59 Resp: 2301

Ion Ratio Lower Upper

59 100

57 46.6 8.2 12.4#



#18

1,1-Dichloroethene

Concen: 0.148 ppbv

RT: 2.036 min Scan# 602

Delta R.T. -0.000 min

Lab File: VL043109.D

Acq: 14 Oct 2025 13:08

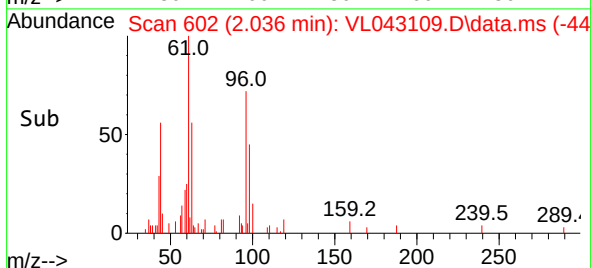
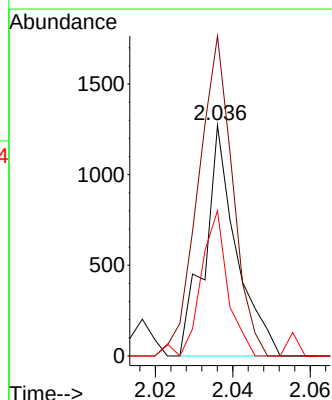
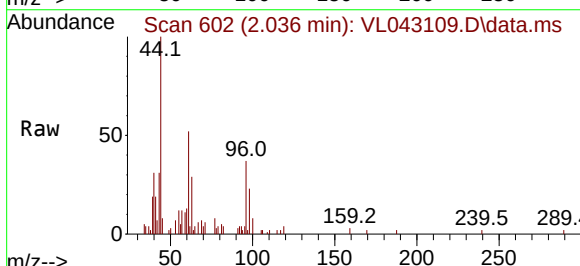
Tgt Ion: 96 Resp: 720

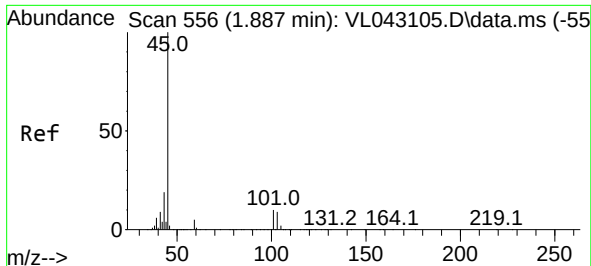
Ion Ratio Lower Upper

96 100

61 149.8 173.4 260.0#

98 63.0 53.2 79.8

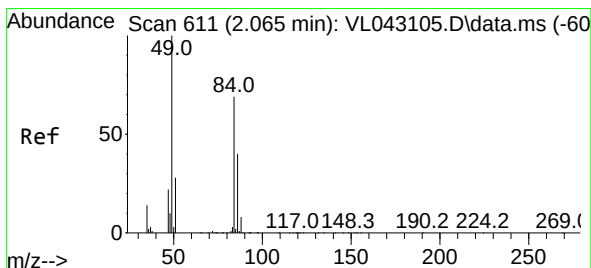
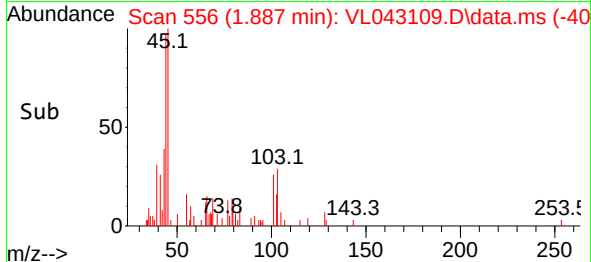
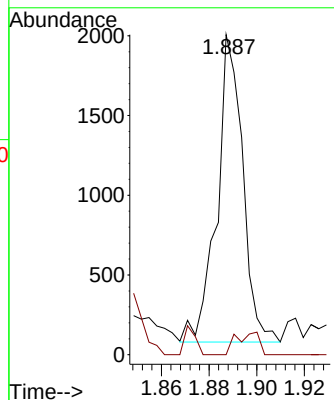
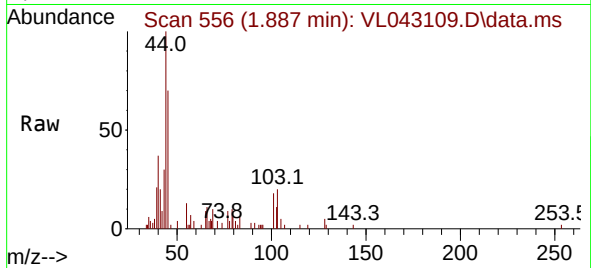




#19
Isopropyl Alcohol
Concen: 0.172 ppbv
RT: 1.887 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

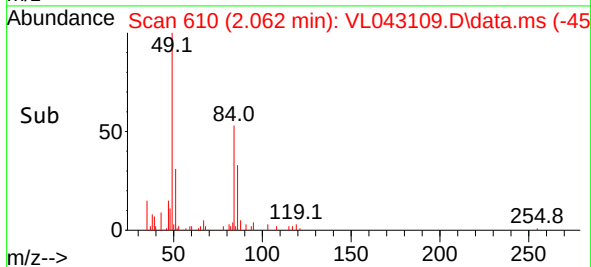
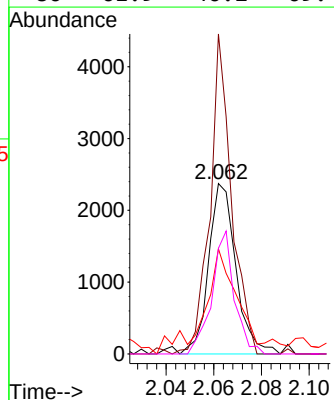
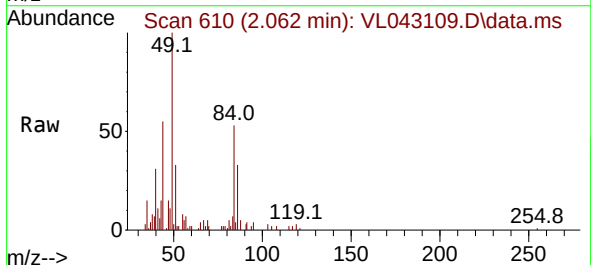
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

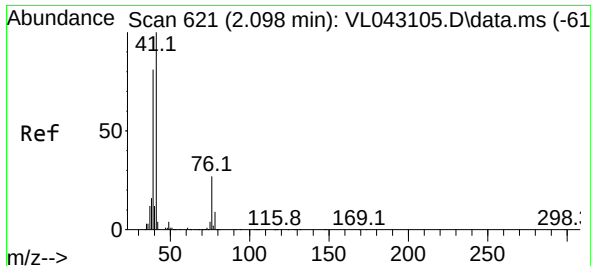
Tgt Ion: 45 Resp: 1443
Ion Ratio Lower Upper
45 100
58 10.5 31.3 46.9#



#20
Methylene Chloride
Concen: 0.355 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion: 84 Resp: 1890
Ion Ratio Lower Upper
84 100
49 183.9 116.6 175.0#
51 55.8 34.8 52.2#
86 61.9 46.2 69.4

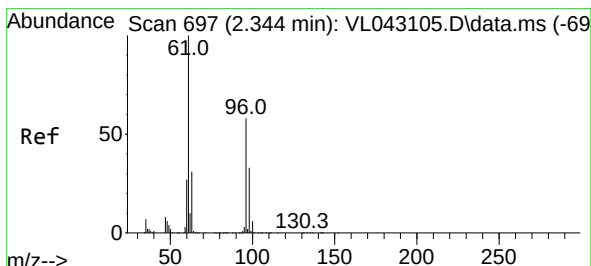
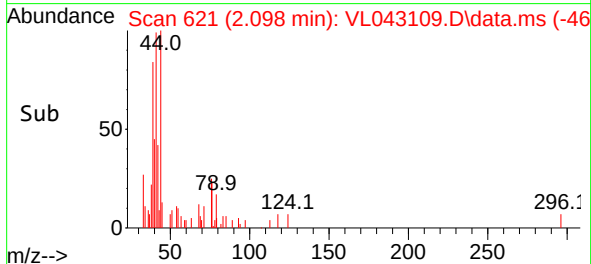
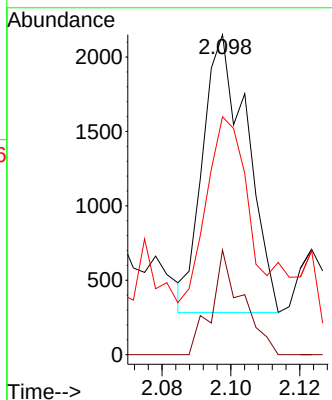
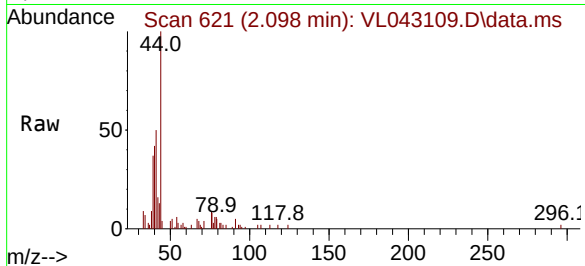




#21
 Allyl Chloride
 Concen: 0.167 ppbv
 RT: 2.098 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: VL043109.D
 Acq: 14 Oct 2025 13:08

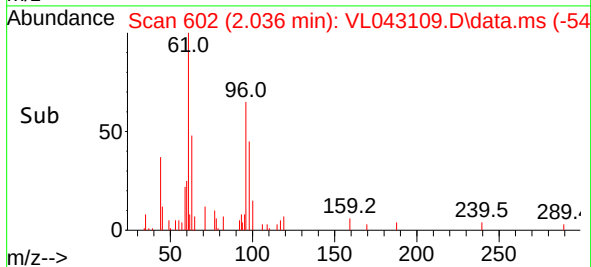
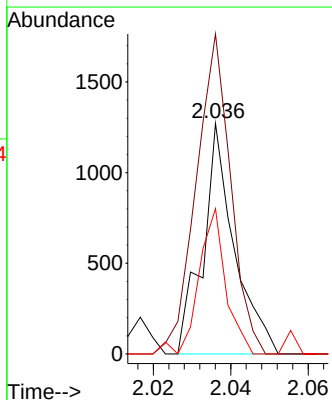
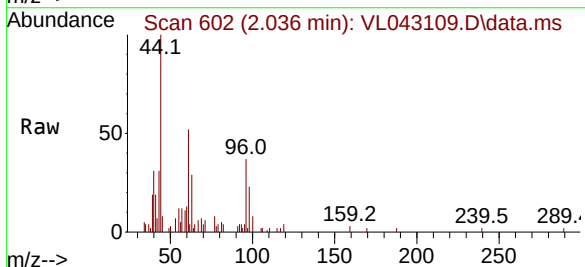
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

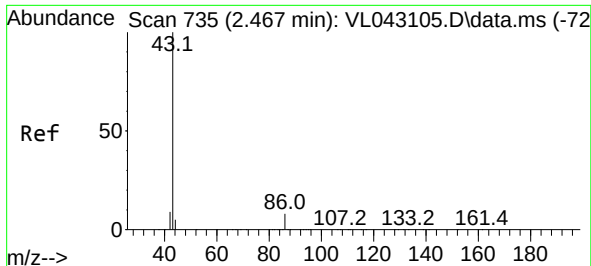
Tgt Ion:	41	Resp:	1664
Ion	Ratio	Lower	Upper
41	100		
76	26.4	21.5	32.3
39	142.1	60.8	91.2#



#22
 trans-1,2-Dichloroethene
 Concen: 0.123 ppbv
 RT: 2.036 min Scan# 602
 Delta R.T. -0.308 min
 Lab File: VL043109.D
 Acq: 14 Oct 2025 13:08

Tgt Ion:	96	Resp:	720
Ion	Ratio	Lower	Upper
96	100		
61	149.8	137.0	205.6
98	63.0	45.5	68.3

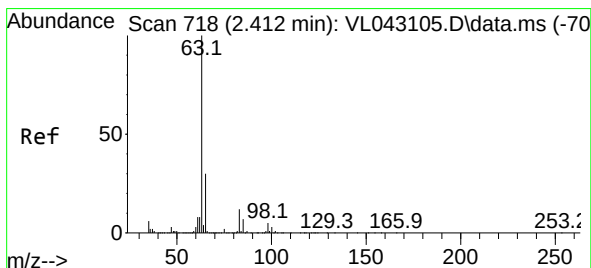
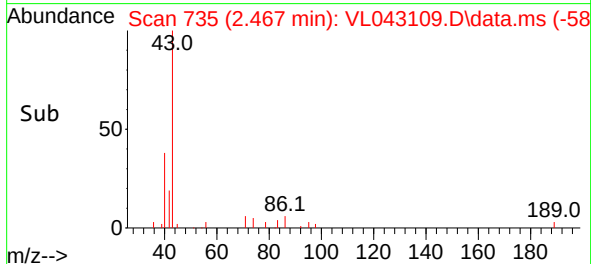
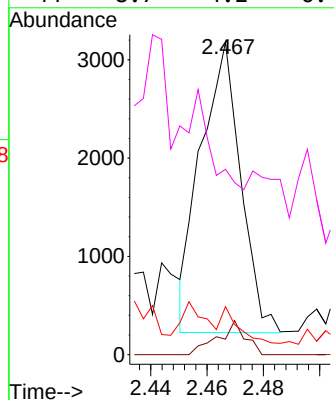
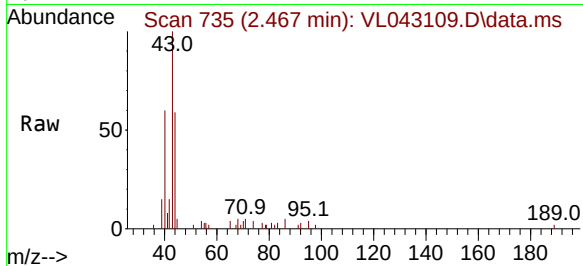




#23
 Vinyl Acetate
 Concen: 0.148 ppbv
 RT: 2.467 min Scan# 717
 Delta R.T. -0.000 min
 Lab File: VL043109.D
 Acq: 14 Oct 2025 13:08

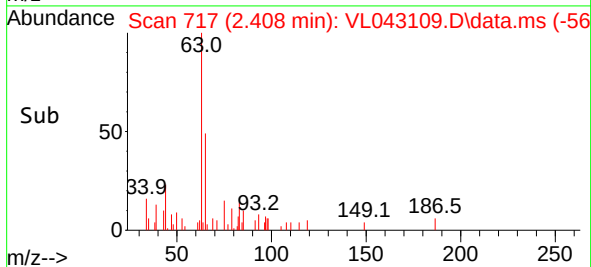
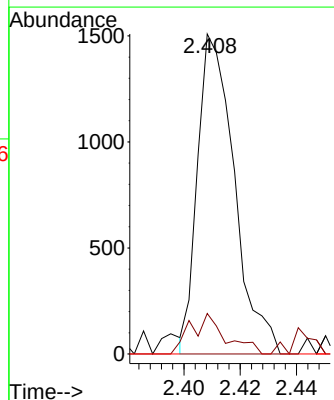
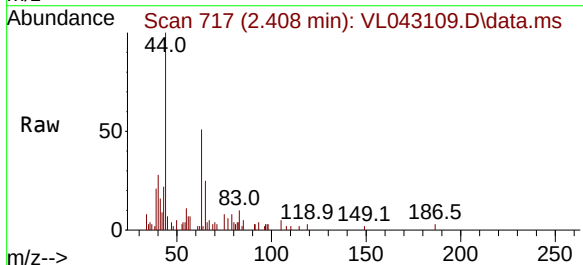
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

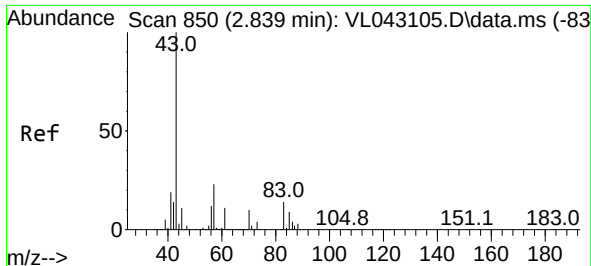
Tgt Ion:	43	Resp:	2916
Ion	Ratio	Lower	Upper
43	100		
86	5.4	6.2	9.2#
42	5.5	7.6	11.4#
44	8.7	4.2	6.4#



#24
 1,1-Dichloroethane
 Concen: 0.121 ppbv
 RT: 2.408 min Scan# 717
 Delta R.T. -0.003 min
 Lab File: VL043109.D
 Acq: 14 Oct 2025 13:08

Tgt Ion:	63	Resp:	1367
Ion	Ratio	Lower	Upper
63	100		
98	8.5	2.6	7.8#
100	0.0	1.5	4.4#



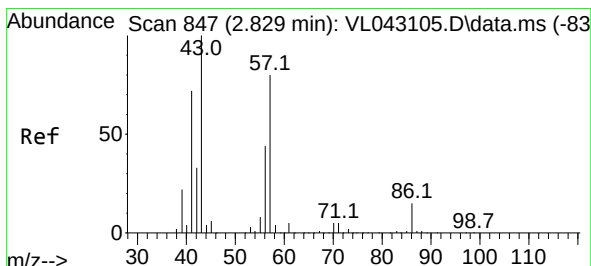
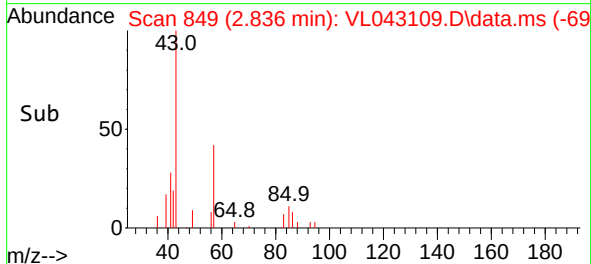
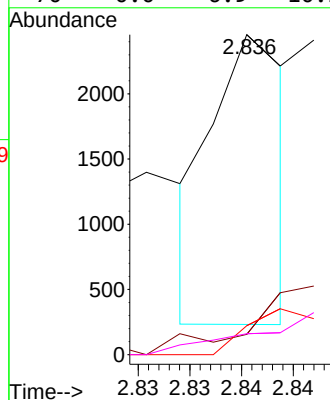
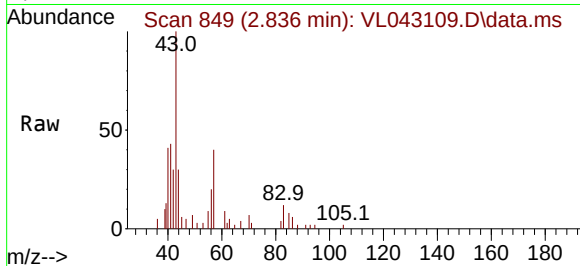


#25
Ethyl Acetate
Concen: 0.033 ppbv
RT: 2.836 min Scan# 849
Delta R.T. -0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Instrument :
MSVOA_1
ClientSampleId :
VSTDICC0.1

Tgt Ion: 43 Resp: 1114

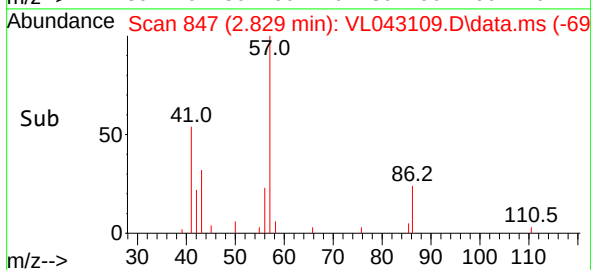
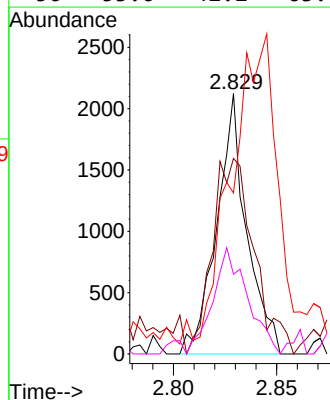
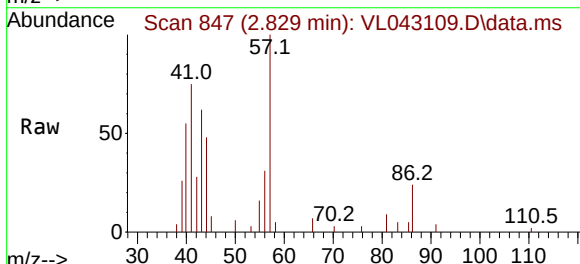
Ion	Ratio	Lower	Upper
43	100		
45	0.0	7.8	11.8#
61	27.3	7.0	10.6#
70	0.0	6.9	10.3#

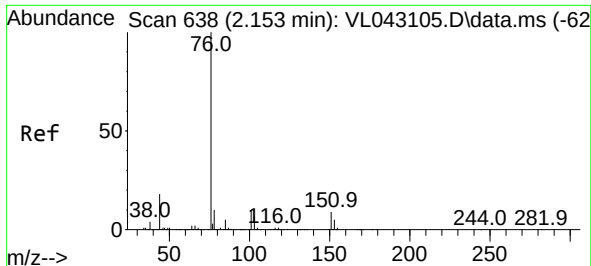


#26
Hexane
Concen: 0.139 ppbv
RT: 2.829 min Scan# 847
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion: 57 Resp: 2134

Ion	Ratio	Lower	Upper
57	100		
41	106.3	71.4	107.0
43	219.9	178.5	267.7
56	53.6	42.2	63.4

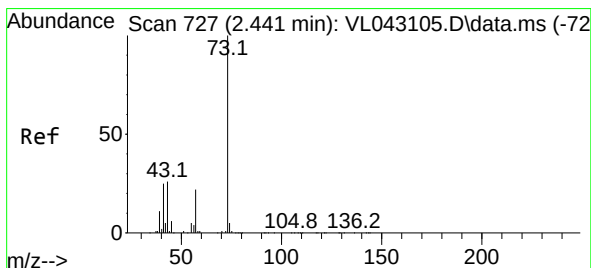
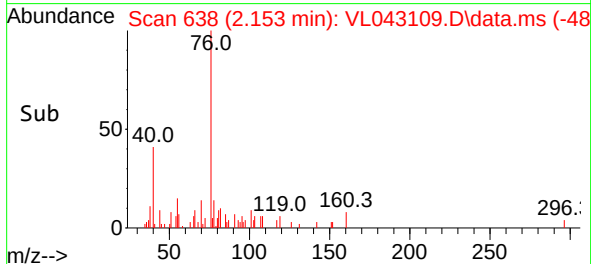
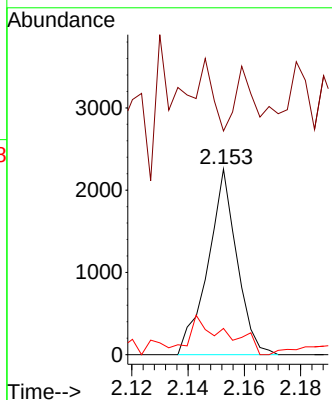
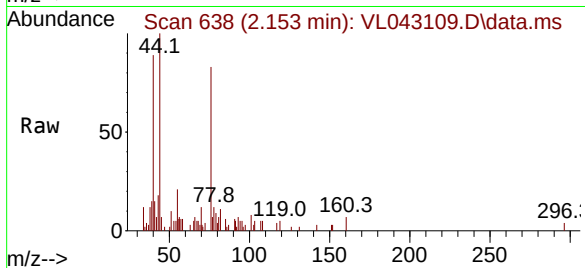




#27
Carbon Disulfide
Concen: 0.114 ppbv
RT: 2.153 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

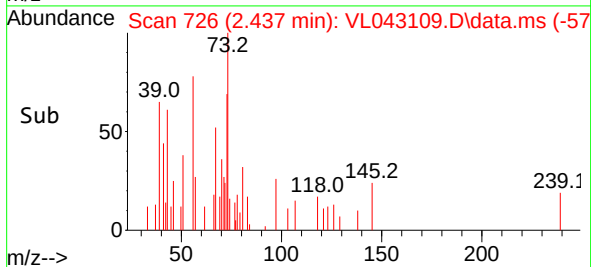
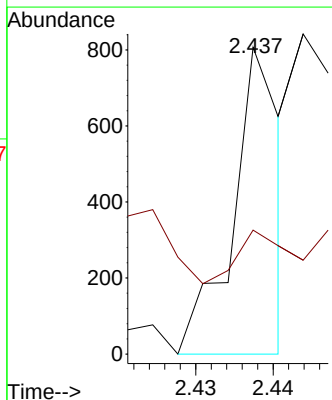
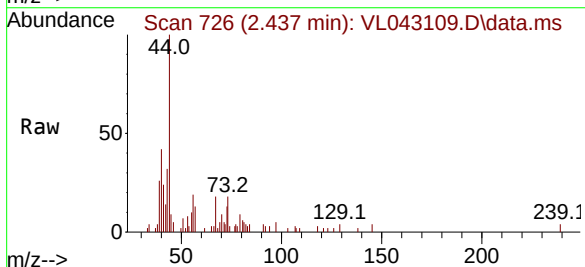
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

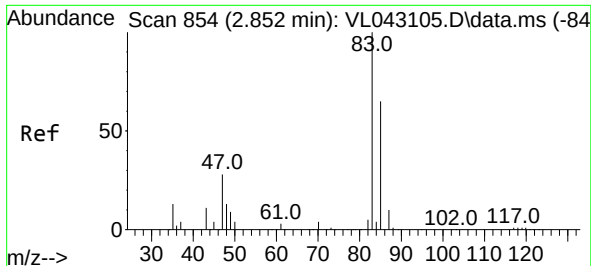
Tgt Ion: 76 Resp: 1609
Ion Ratio Lower Upper
76 100
44 164.6 16.7 25.1#
78 37.2 9.3 13.9#



#28
Methyl tert-Butyl Ether
Concen: 0.050 ppbv
RT: 2.437 min Scan# 726
Delta R.T. -0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion: 73 Resp: 351
Ion Ratio Lower Upper
73 100
57 0.0 20.5 30.7#





#29

Chloroform

Concen: 0.055 ppbv

RT: 2.855 min Scan# 8

Delta R.T. 0.003 min

Lab File: VL043109.D

Acq: 14 Oct 2025 13:08

Instrument :

MSVOA_1

ClientSampleId :

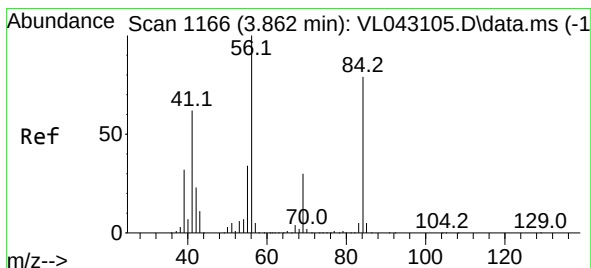
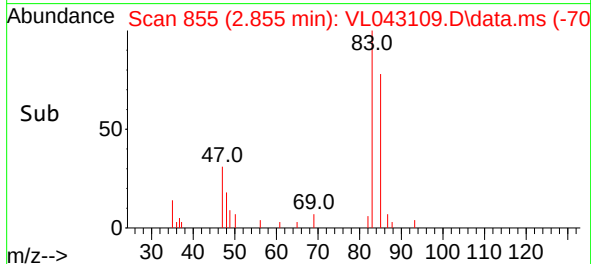
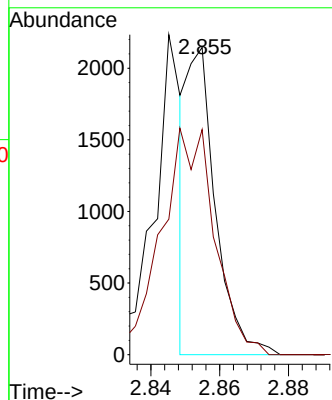
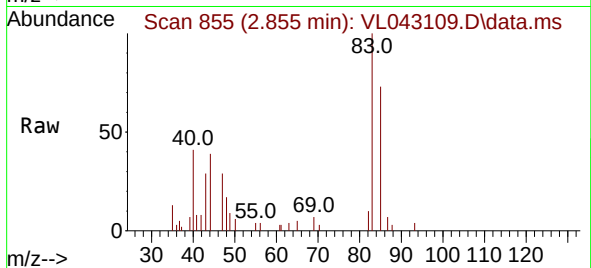
VSTDICC0.1

Tgt Ion: 83 Resp: 1225

Ion Ratio Lower Upper

83 100

85 73.3 51.8 77.6



#30

Cyclohexane

Concen: 0.025 ppbv

RT: 3.868 min Scan# 1168

Delta R.T. 0.006 min

Lab File: VL043109.D

Acq: 14 Oct 2025 13:08

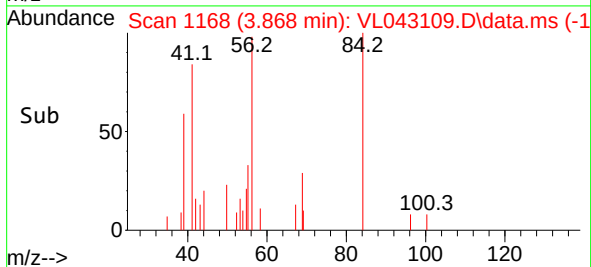
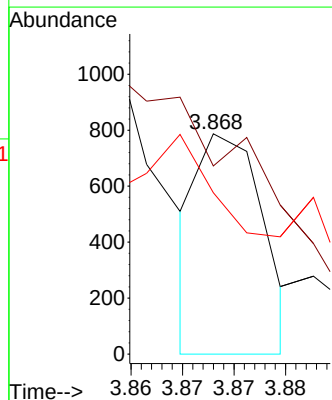
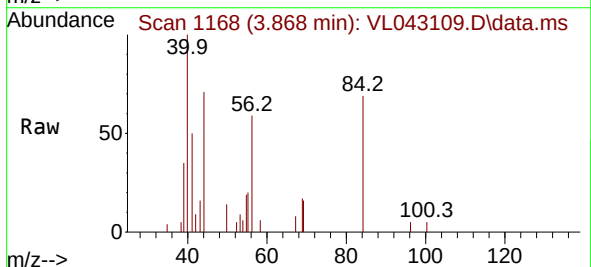
Tgt Ion: 84 Resp: 340

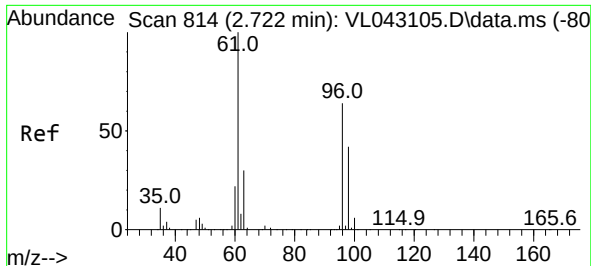
Ion Ratio Lower Upper

84 100

56 0.0 100.9 151.3#

41 578.5 63.8 95.6#

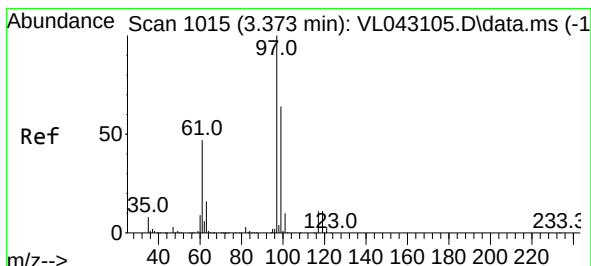
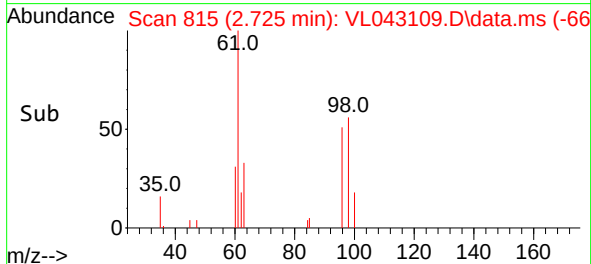
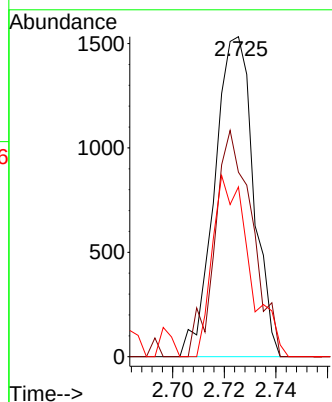
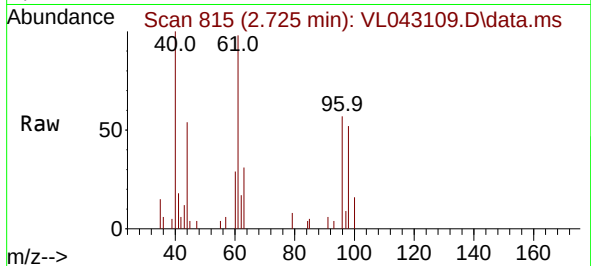




#31
 cis-1,2-Dichloroethene
 Concen: 0.109 ppbv
 RT: 2.725 min Scan# 814
 Delta R.T. 0.003 min
 Lab File: VL043109.D
 Acq: 14 Oct 2025 13:08

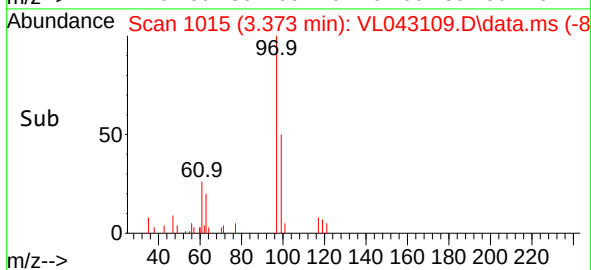
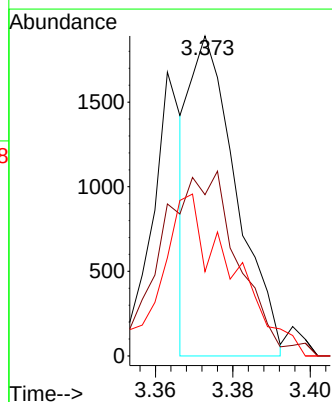
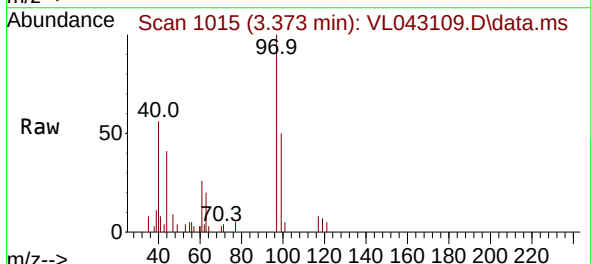
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

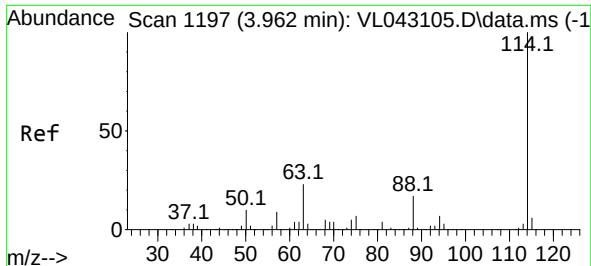
Tgt Ion: 61 Resp: 1605
 Ion Ratio Lower Upper
 61 100
 96 57.7 51.0 76.6
 98 53.0 33.5 50.3#



#32
 1,1,1-Trichloroethane
 Concen: 0.068 ppbv
 RT: 3.373 min Scan# 1015
 Delta R.T. -0.000 min
 Lab File: VL043109.D
 Acq: 14 Oct 2025 13:08

Tgt Ion: 97 Resp: 1581
 Ion Ratio Lower Upper
 97 100
 99 94.8 51.3 76.9#
 61 76.3 38.4 57.6#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. -0.003 min

Lab File: VL043109.D

Acq: 14 Oct 2025 13:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

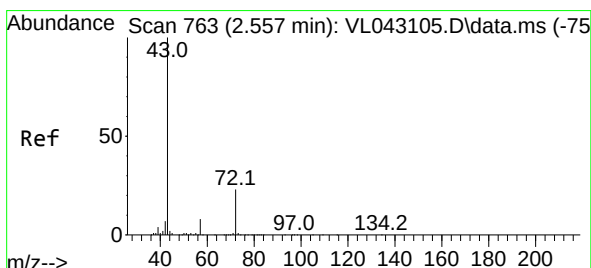
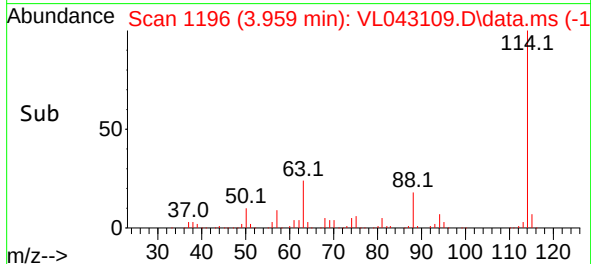
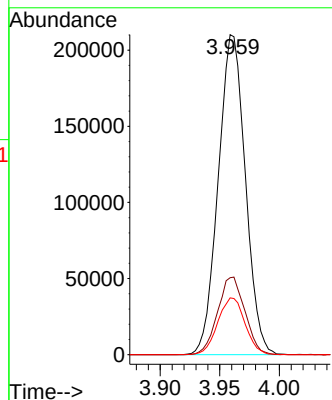
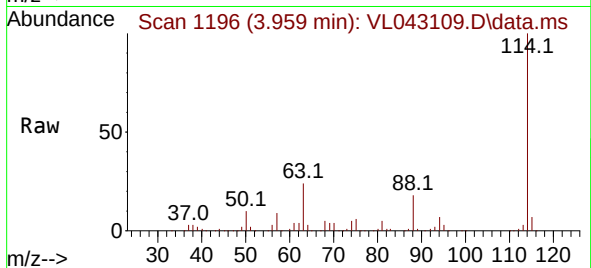
Tgt Ion:114 Resp: 332574

Ion Ratio Lower Upper

114 100

63 24.3 19.3 28.9

88 17.9 13.9 20.9



#34

2-Butanone

Concen: 0.114 ppbv

RT: 2.564 min Scan# 765

Delta R.T. 0.006 min

Lab File: VL043109.D

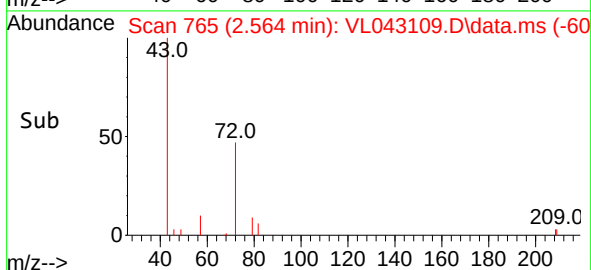
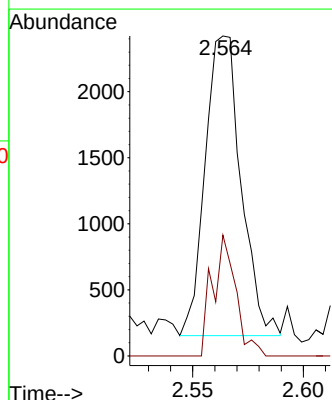
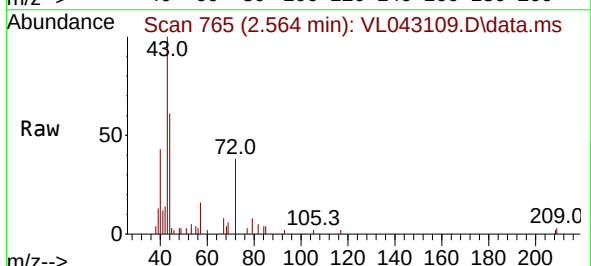
Acq: 14 Oct 2025 13:08

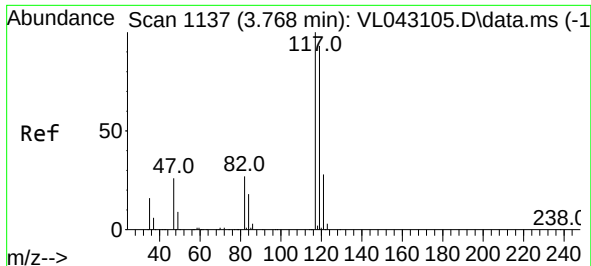
Tgt Ion: 43 Resp: 2560

Ion Ratio Lower Upper

43 100

72 26.1 18.4 27.6

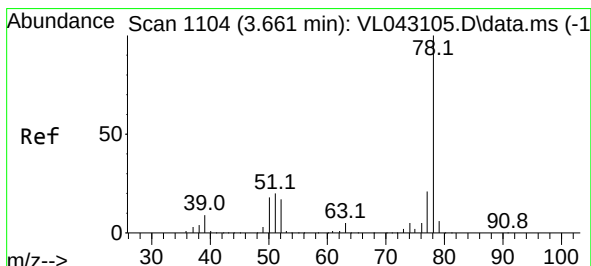
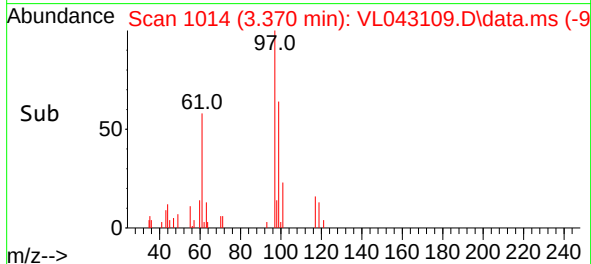
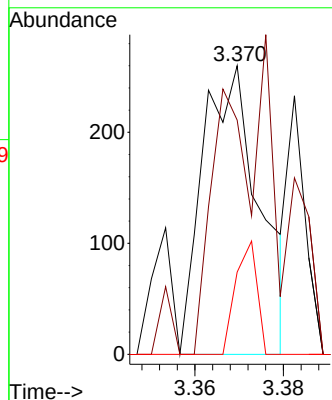
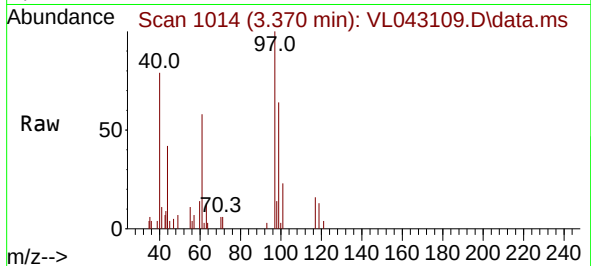




#35
Carbon Tetrachloride
Concen: 0.010 ppbv
RT: 3.370 min Scan# 1103
Delta R.T. -0.398 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

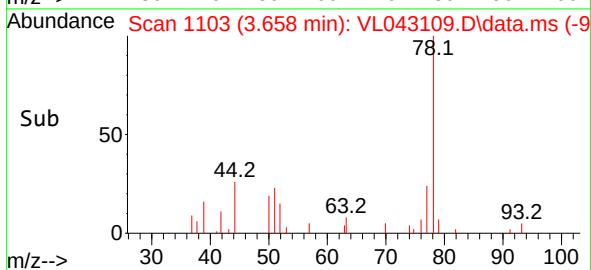
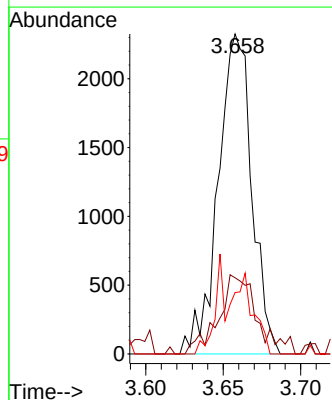
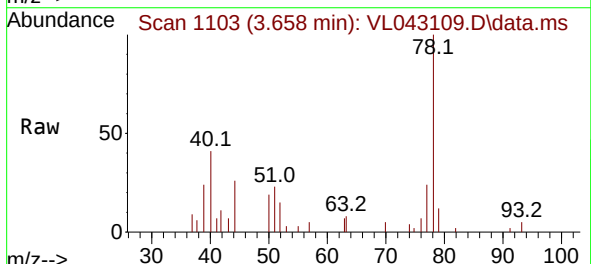
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

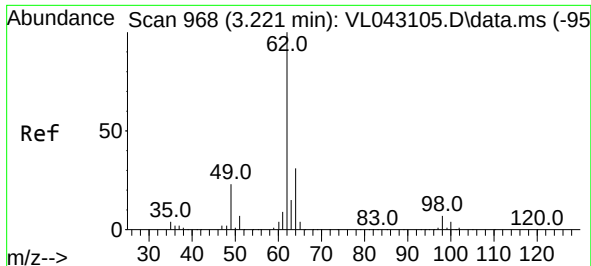
Tgt Ion:117 Resp: 231
Ion Ratio Lower Upper
117 100
119 81.2 74.1 111.1
121 28.5 22.2 33.2



#36
Benzene
Concen: 0.112 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. -0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion: 78 Resp: 3507
Ion Ratio Lower Upper
78 100
77 23.8 17.0 25.6
50 19.2 14.6 22.0

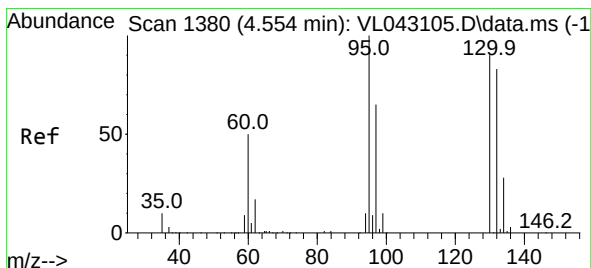
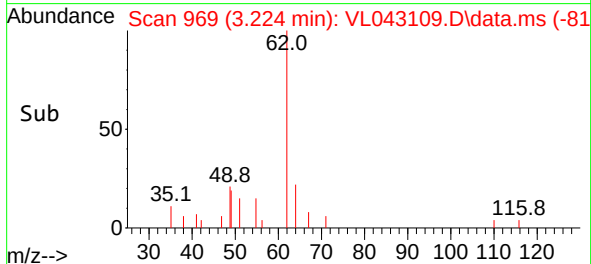
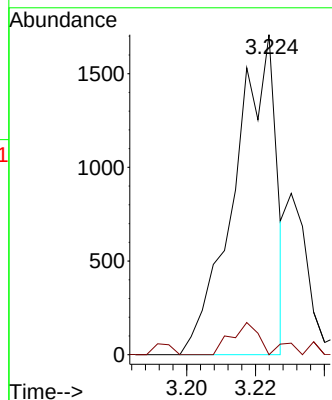
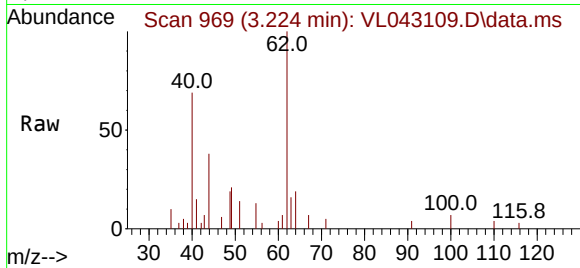




#37
1,2-Dichloroethane
Concen: 0.080 ppbv
RT: 3.224 min Scan# 9
Delta R.T. 0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

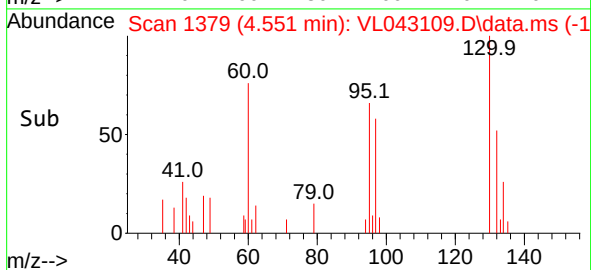
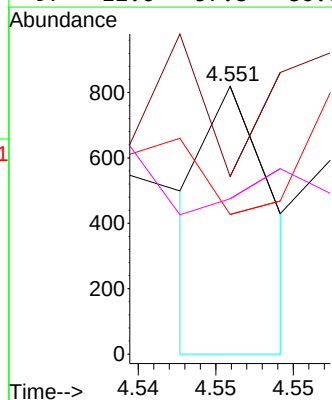
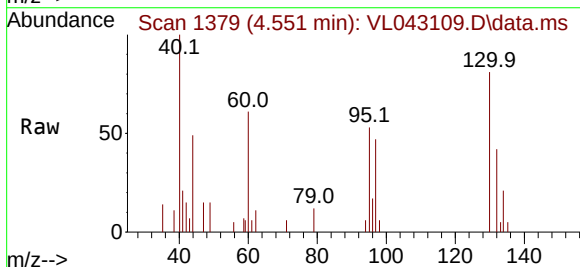
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

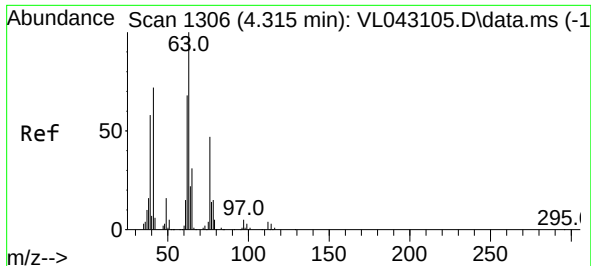
Tgt Ion: 62 Resp: 1448
Ion Ratio Lower Upper
62 100
98 9.5 5.8 8.6#



#38
Trichloroethene
Concen: 0.019 ppbv
RT: 4.551 min Scan# 1379
Delta R.T. -0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion:130 Resp: 242
Ion Ratio Lower Upper
130 100
95 0.0 88.6 133.0#
132 0.0 73.4 110.0#
97 12.6 57.8 86.6#





#39

1,2-Dichloropropane

Concen: 7.054 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. -0.353 min

Lab File: VL043109.D

Acq: 14 Oct 2025 13:08

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

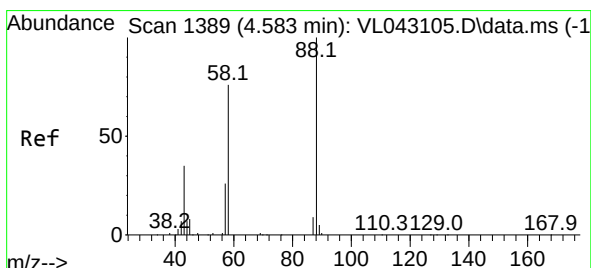
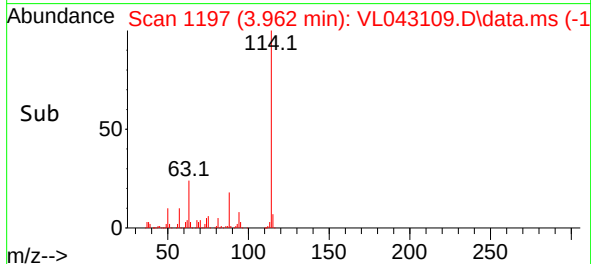
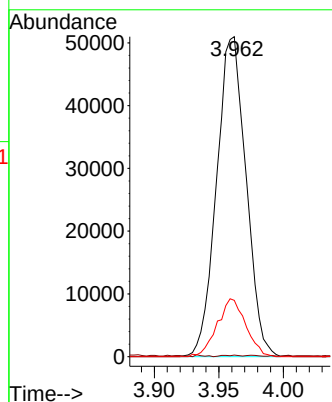
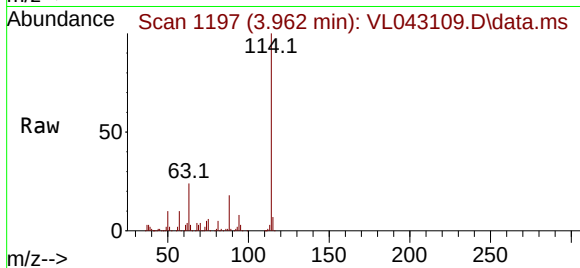
Tgt Ion: 63 Resp: 80849

Ion Ratio Lower Upper

63 100

41 0.5 58.0 87.0#

62 17.6 54.7 82.1#



#40

1,4-Dioxane

Concen: 0.066 ppbv

RT: 4.609 min Scan# 1397

Delta R.T. 0.026 min

Lab File: VL043109.D

Acq: 14 Oct 2025 13:08

Tgt Ion: 88 Resp: 339

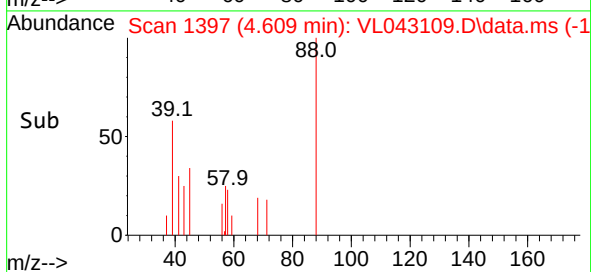
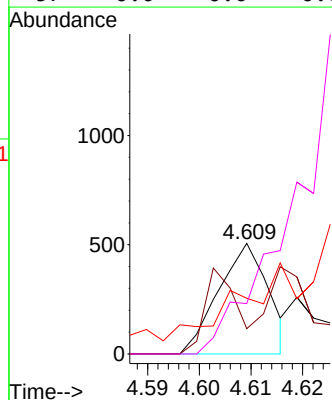
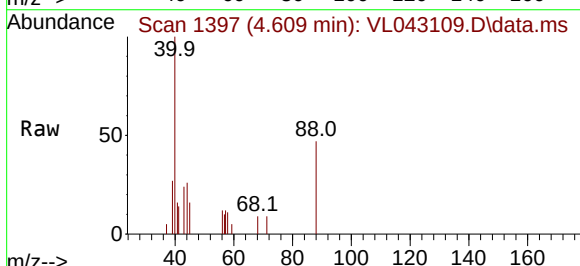
Ion Ratio Lower Upper

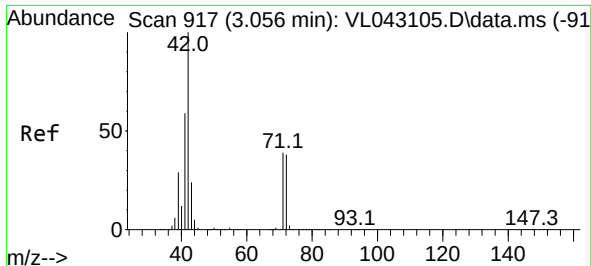
88 100

58 14.2 61.1 91.7#

43 48.4 24.0 36.0#

57 0.0 0.0 0.0

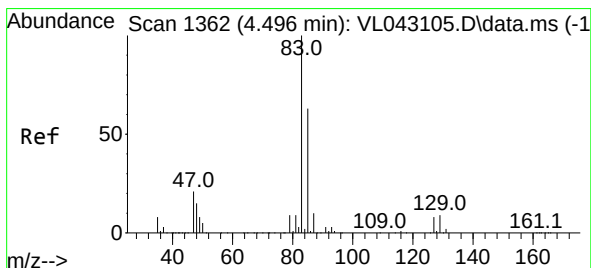
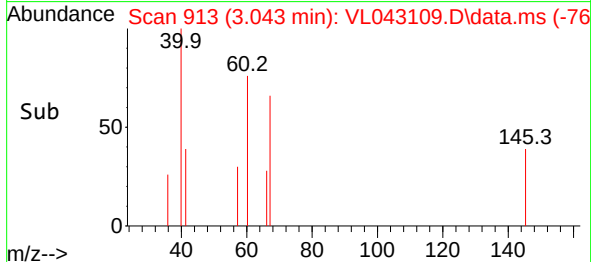
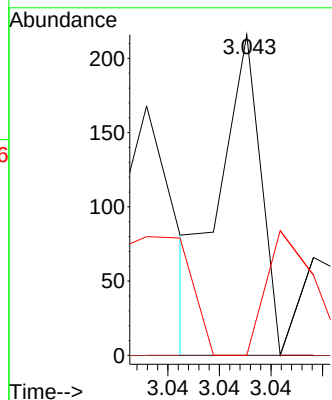
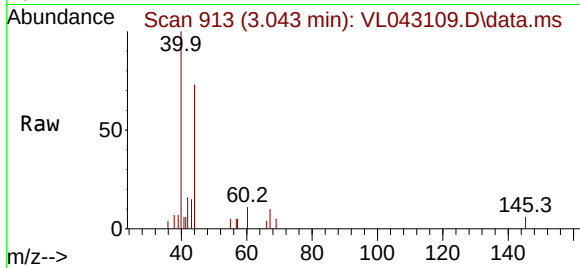




#41
Tetrahydrofuran
Concen: 0.005 ppbv
RT: 3.043 min Scan# 917
Delta R.T. -0.013 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

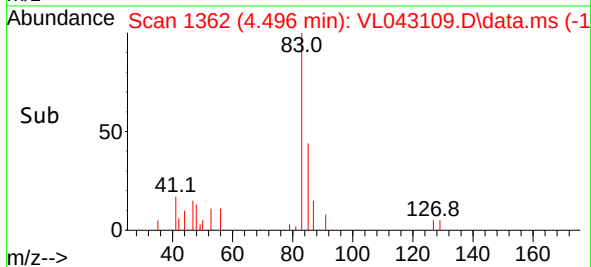
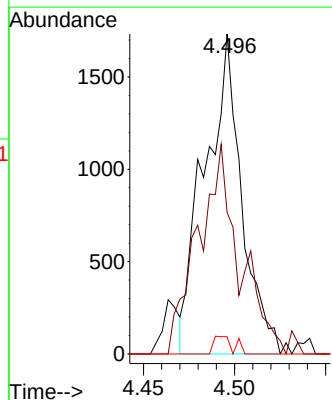
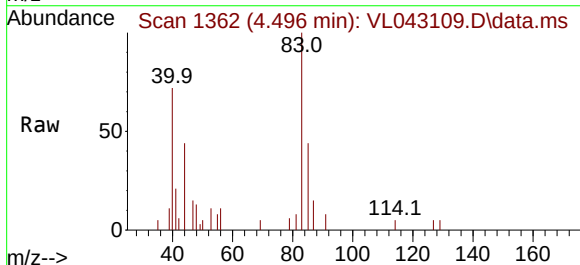
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

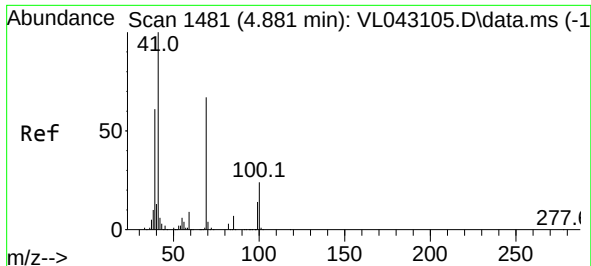
Tgt Ion: 42 Resp: 58
Ion Ratio Lower Upper
42 100
72 0.0 31.3 46.9#
71 0.0 30.4 45.6#



#42
Bromodichloromethane
Concen: 0.098 ppbv
RT: 4.496 min Scan# 1362
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion: 83 Resp: 2440
Ion Ratio Lower Upper
83 100
85 40.1 50.6 75.8#
127 5.4 6.3 9.5#

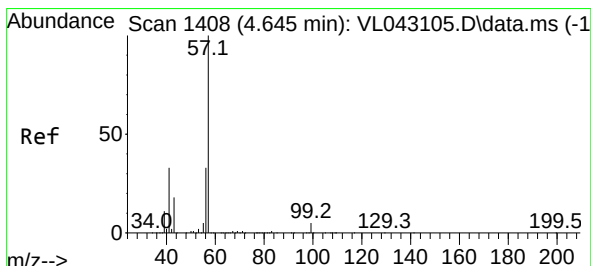
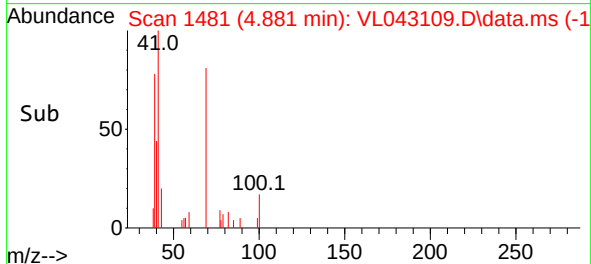
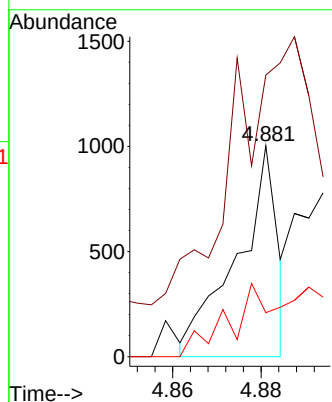
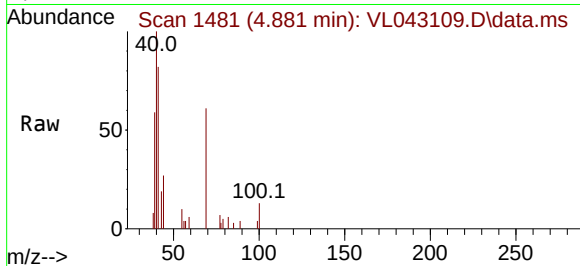




#43
Methyl Methacrylate
Concen: 0.040 ppbv
RT: 4.881 min Scan# 1481
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

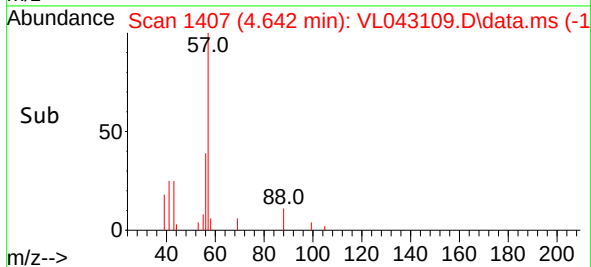
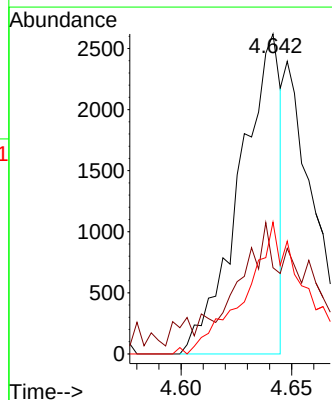
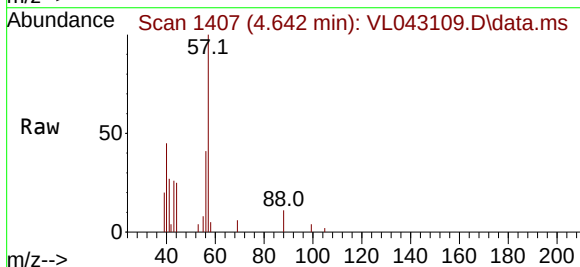
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC0.1

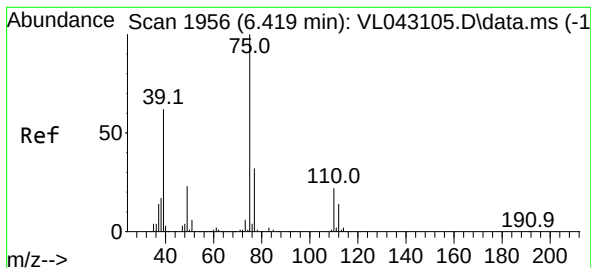
Tgt Ion: 69 Resp: 636
Ion Ratio Lower Upper
69 100
41 0.0 120.5 180.7#
100 0.0 29.0 43.4#



#44
2,2,4-Trimethylpentane
Concen: 0.064 ppbv
RT: 4.642 min Scan# 1407
Delta R.T. -0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion: 57 Resp: 3354
Ion Ratio Lower Upper
57 100
41 68.1 26.3 39.5#
56 59.0 25.9 38.9#





#45

t-1,3-Dichloropropene

Concen: 0.039 ppbv

RT: 6.425 min Scan# 1956

Delta R.T. 0.006 min

Lab File: VL043109.D

Acq: 14 Oct 2025 13:08

Instrument :

MSVOA_1

ClientSampleId :

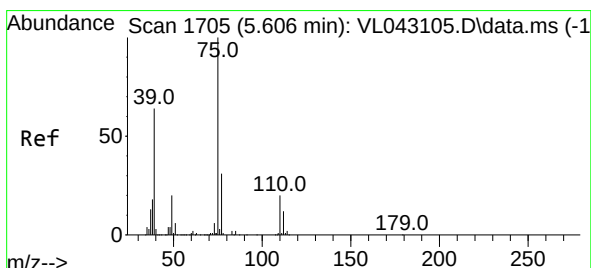
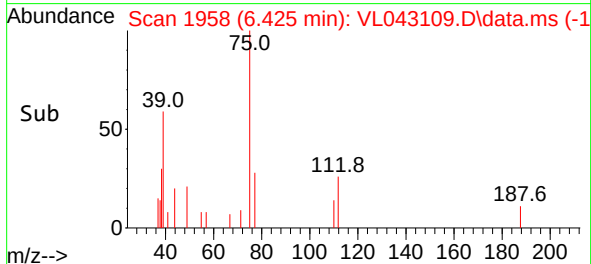
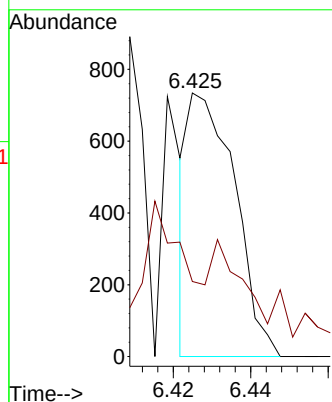
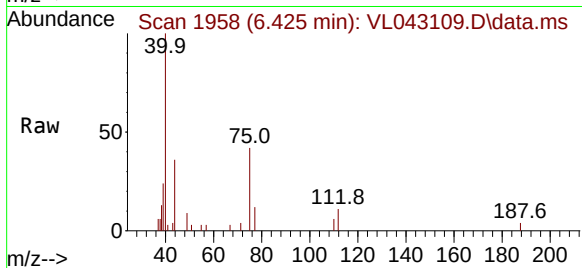
VSTDIC0.1

Tgt Ion: 75 Resp: 617

Ion Ratio Lower Upper

75 100

77 28.5 25.4 38.2



#46

cis-1,3-Dichloropropene

Concen: 0.025 ppbv

RT: 5.596 min Scan# 1702

Delta R.T. -0.010 min

Lab File: VL043109.D

Acq: 14 Oct 2025 13:08

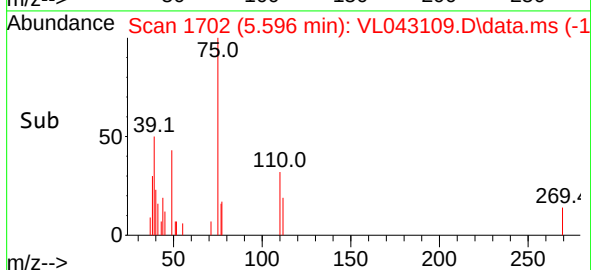
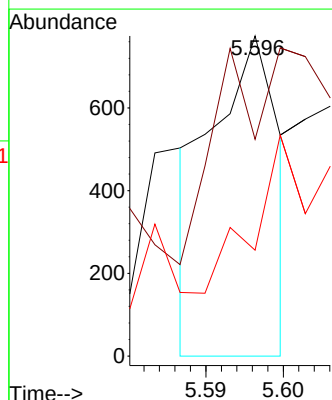
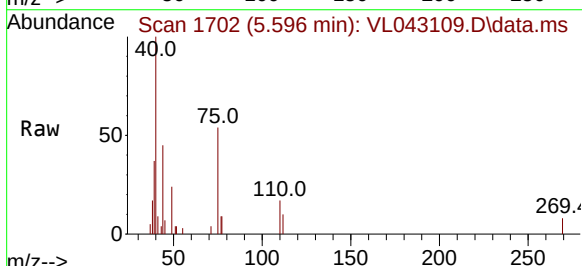
Tgt Ion: 75 Resp: 472

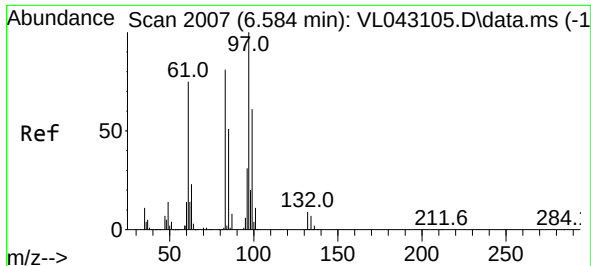
Ion Ratio Lower Upper

75 100

39 111.8 51.0 76.6#

77 37.6 25.0 37.4#

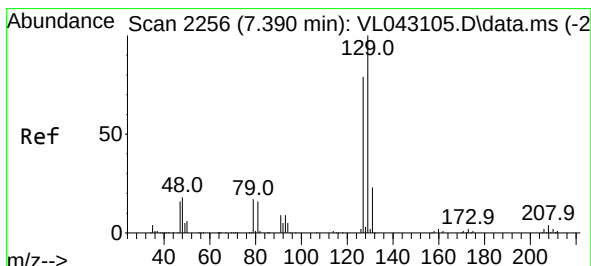
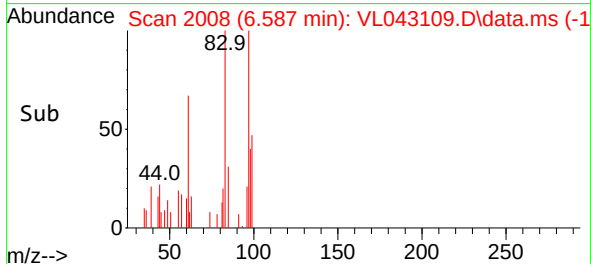
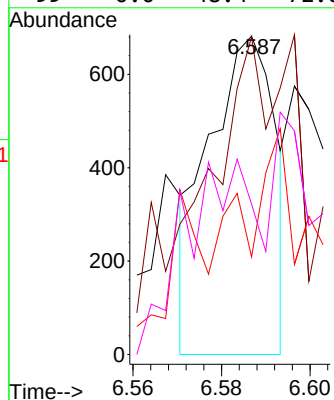
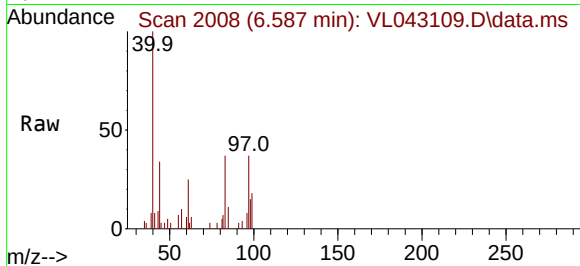




#47
1,1,2-Trichloroethane
Concen: 0.058 ppbv
RT: 6.587 min Scan# 2007
Delta R.T. 0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

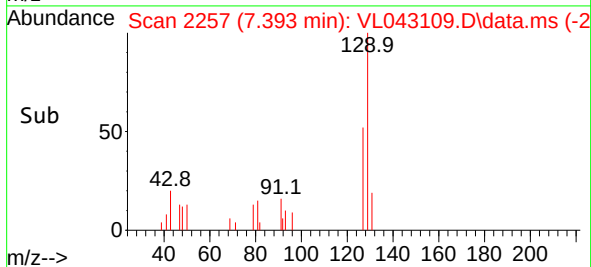
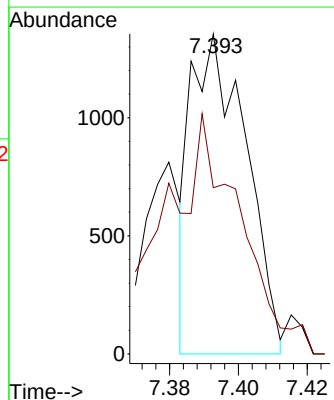
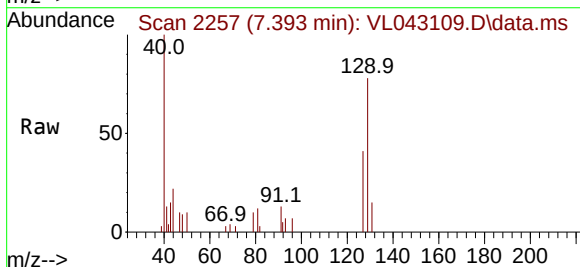
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

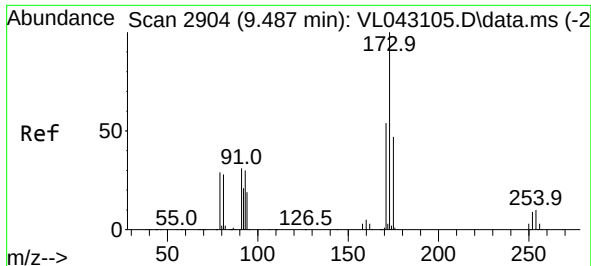
Tgt Ion: 97	Resp:	716
Ion	Ratio	Lower Upper
97	100	
83	117.6	64.6 96.8#
85	0.0	40.6 60.8#
99	0.0	48.4 72.6#



#48
Dibromochloromethane
Concen: 0.073 ppbv
RT: 7.393 min Scan# 2257
Delta R.T. 0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion: 129	Resp:	1506
Ion	Ratio	Lower Upper
129	100	
127	102.8	39.3 117.9

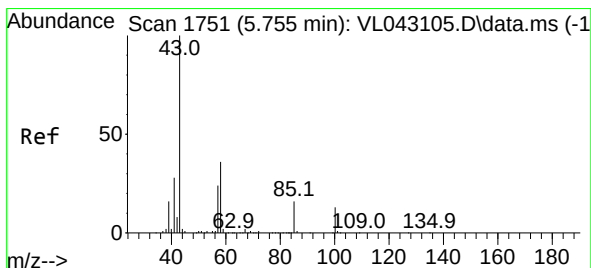
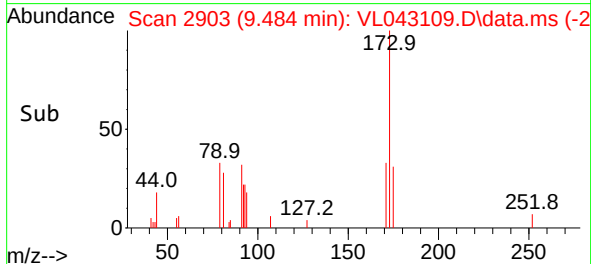
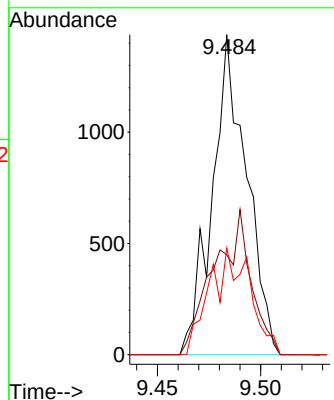
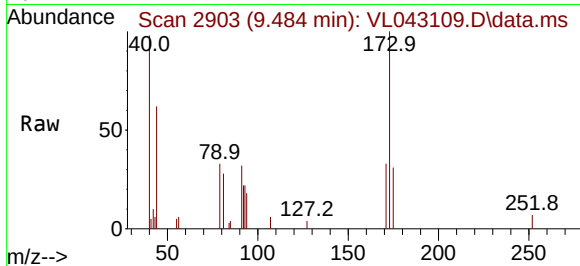




#49
Bromoform
Concen: 0.099 ppbv
RT: 9.484 min Scan# 2904
Delta R.T. -0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

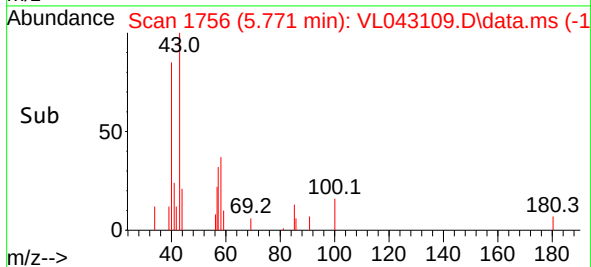
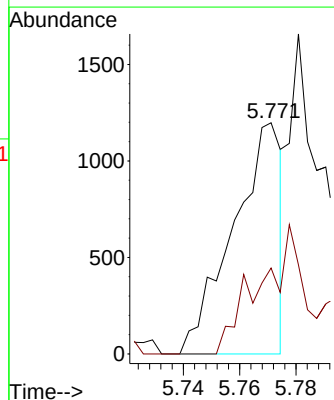
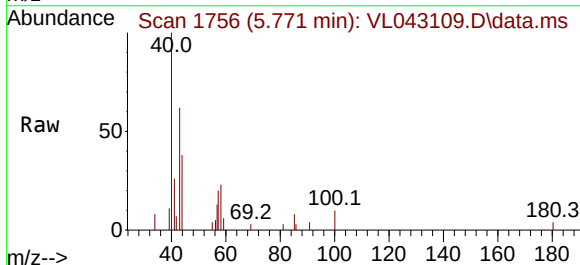
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

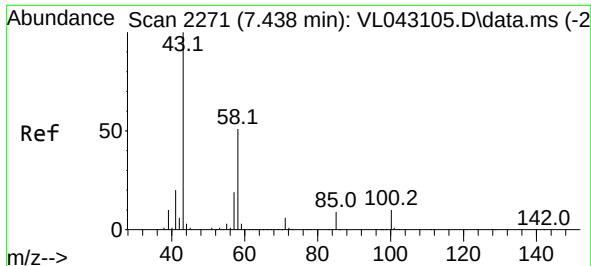
Tgt Ion:173 Resp: 1666
Ion Ratio Lower Upper
173 100
175 48.9 38.8 58.2
171 39.1 41.7 62.5#



#50
4-Methyl-2-Pentanone
Concen: 0.046 ppbv
RT: 5.771 min Scan# 1756
Delta R.T. 0.016 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion: 43 Resp: 1420
Ion Ratio Lower Upper
43 100
58 0.0 29.1 43.7#

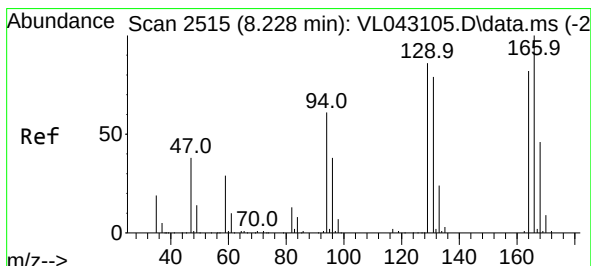
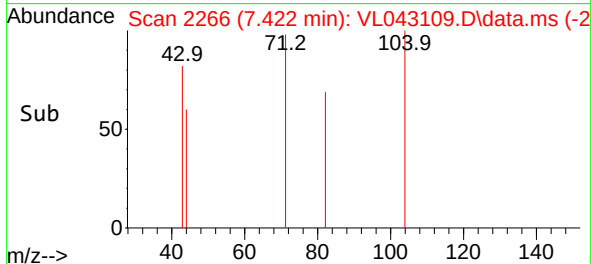
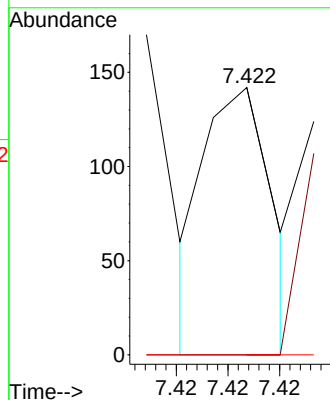
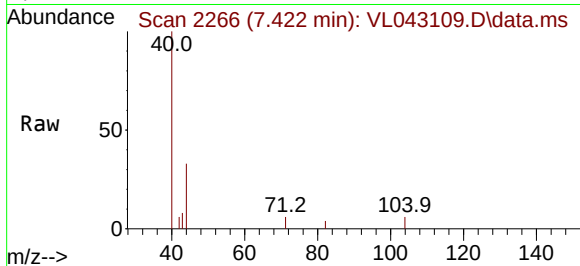




#51
2-Hexanone
Concen: 0.003 ppbv
RT: 7.422 min Scan# 21
Delta R.T. -0.016 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

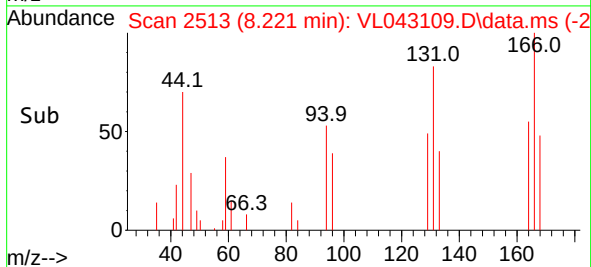
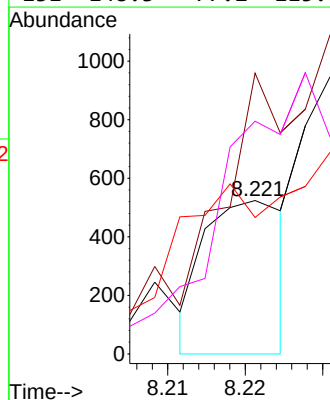
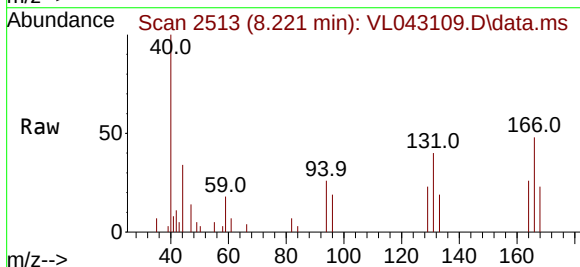
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

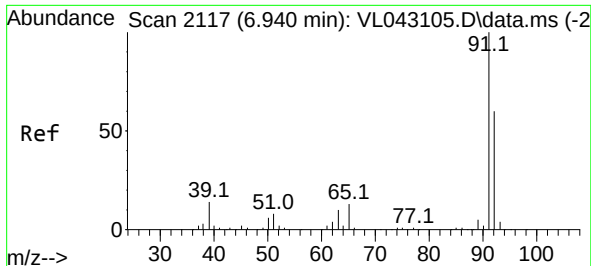
Tgt Ion: 43 Resp: 65
Ion Ratio Lower Upper
43 100
58 0.0 40.4 60.6#
98 0.0 0.1 0.1#



#52
Tetrachloroethene
Concen: 0.033 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. -0.007 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion: 164 Resp: 377
Ion Ratio Lower Upper
164 100
166 208.1 97.6 146.4#
129 0.0 84.5 126.7#
131 148.3 77.2 115.8#

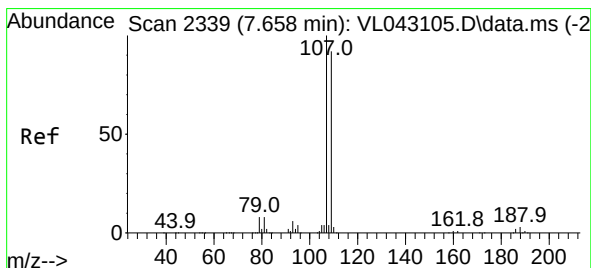
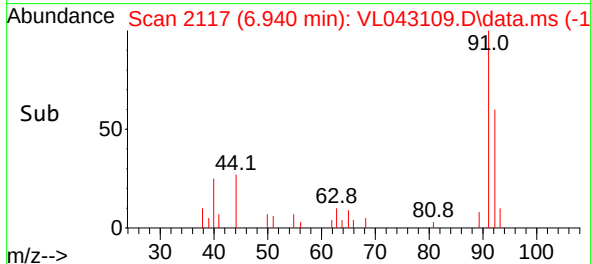
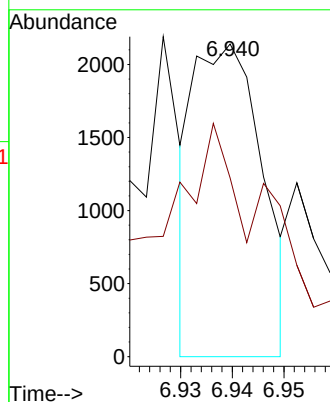
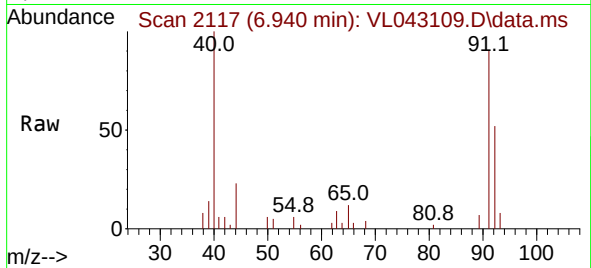




#53
Toluene
Concen: 0.053 ppbv
RT: 6.940 min Scan# 2117
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

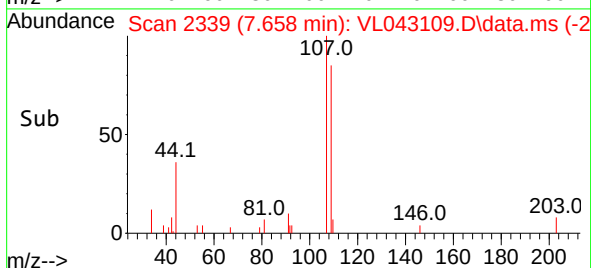
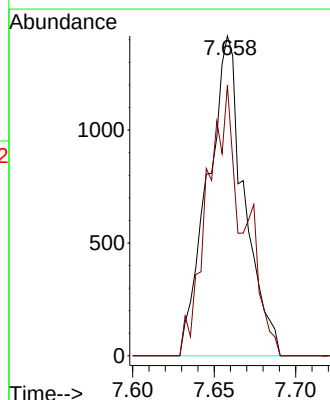
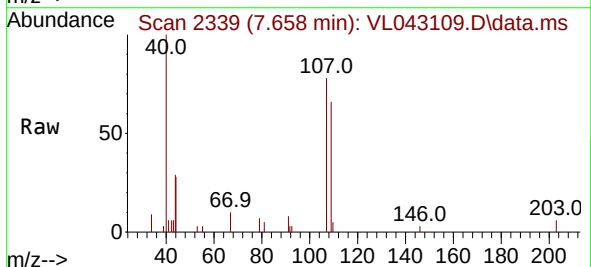
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

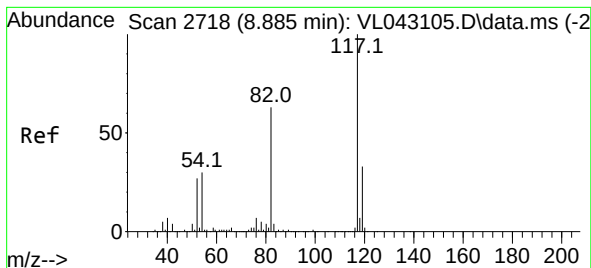
Tgt Ion: 91 Resp: 1973
Ion Ratio Lower Upper
91 100
92 130.1 48.8 73.2#



#54
1,2-Dibromoethane
Concen: 0.113 ppbv
RT: 7.658 min Scan# 2339
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion: 107 Resp: 2201
Ion Ratio Lower Upper
107 100
109 91.5 73.4 110.2





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.882 min Scan# 2718

Delta R.T. -0.003 min

Lab File: VL043109.D

Acq: 14 Oct 2025 13:08

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

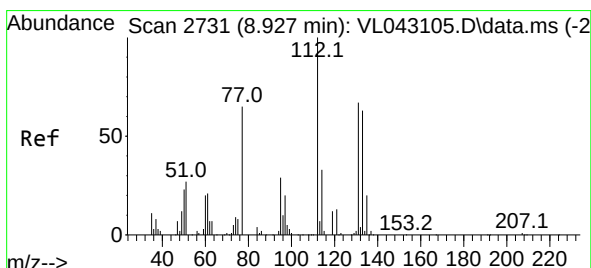
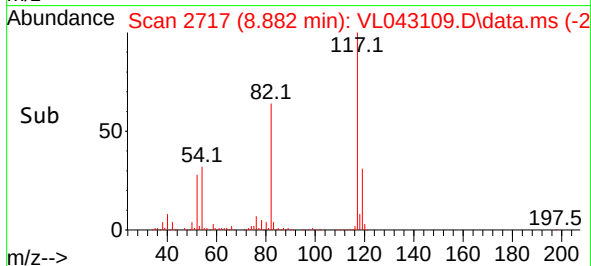
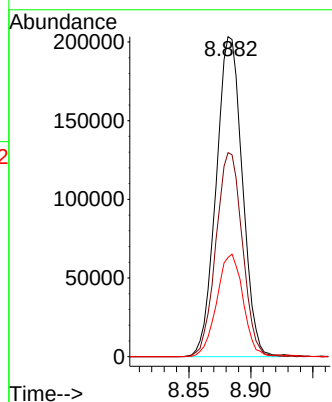
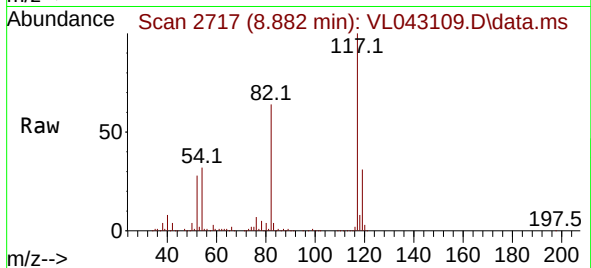
Tgt Ion:117 Resp: 299676

Ion Ratio Lower Upper

117 100

82 64.3 53.8 80.8

119 32.5 25.4 38.0



#56

1,1,1,2-Tetrachloroethane

Concen: 0.080 ppbv

RT: 8.927 min Scan# 2731

Delta R.T. -0.000 min

Lab File: VL043109.D

Acq: 14 Oct 2025 13:08

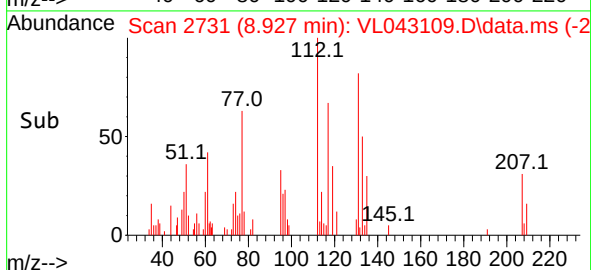
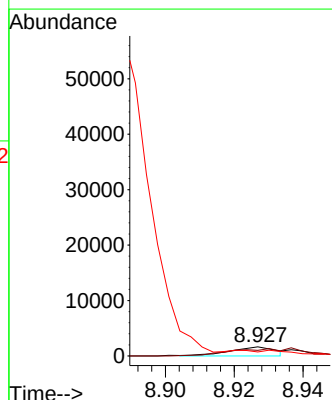
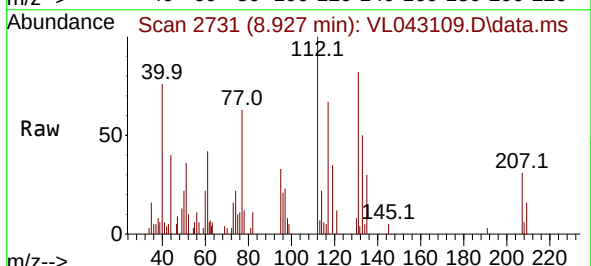
Tgt Ion:131 Resp: 1509

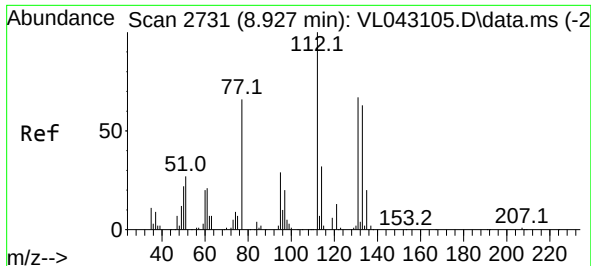
Ion Ratio Lower Upper

131 100

133 0.0 75.7 113.5#

119 0.0 50.6 76.0#





#57

Chlorobenzene

Concen: 0.113 ppbv

RT: 8.920 min Scan# 21

Delta R.T. -0.007 min

Lab File: VL043109.D

Acq: 14 Oct 2025 13:08

Instrument :

MSVOA_1

ClientSampleId :

VSTDICC0.1

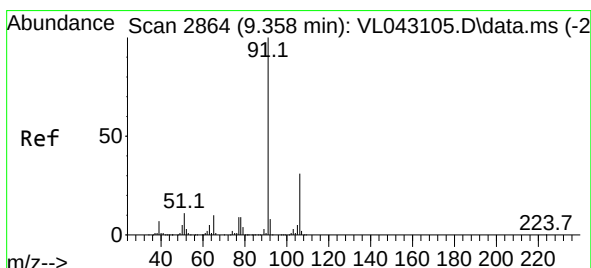
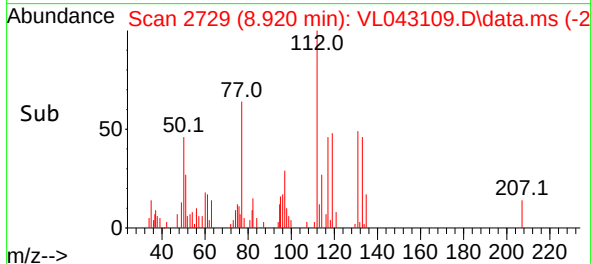
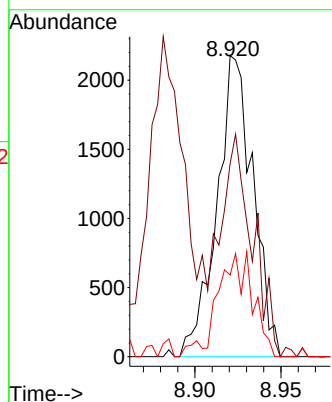
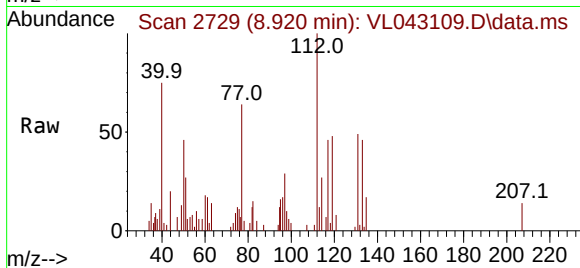
Tgt Ion:112 Resp: 3177

Ion Ratio Lower Upper

112 100

77 64.1 53.3 79.9

114 27.1 29.3 35.8#



#58

Ethyl Benzene

Concen: 0.100 ppbv

RT: 9.354 min Scan# 2863

Delta R.T. -0.003 min

Lab File: VL043109.D

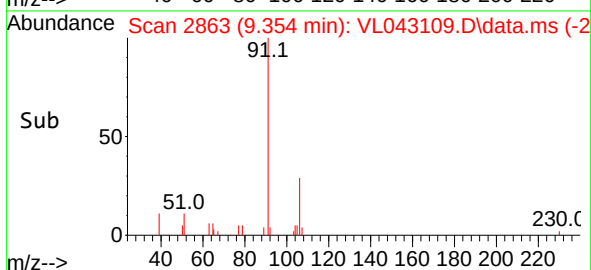
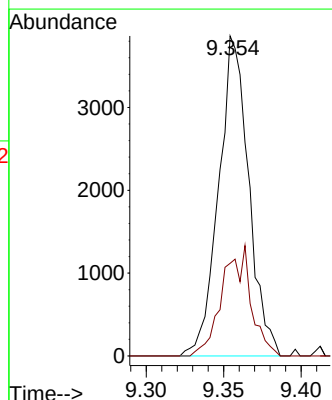
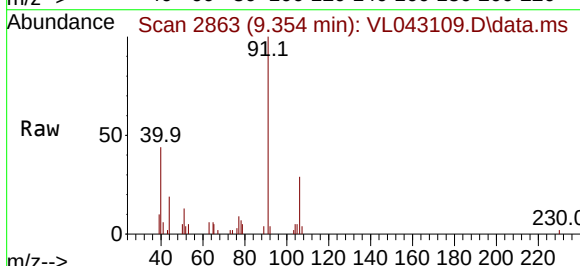
Acq: 14 Oct 2025 13:08

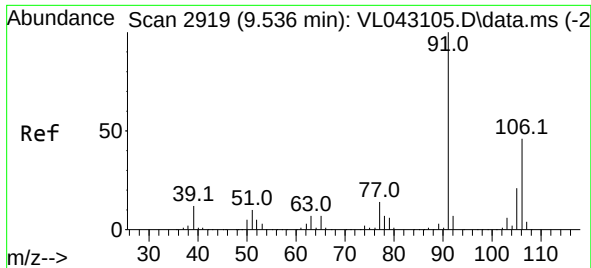
Tgt Ion: 91 Resp: 5210

Ion Ratio Lower Upper

91 100

106 29.0 24.8 37.2

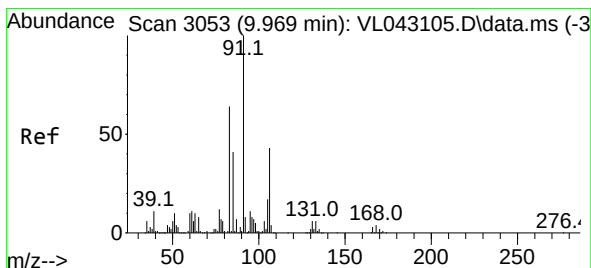
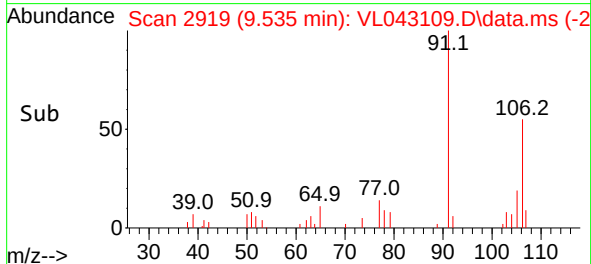
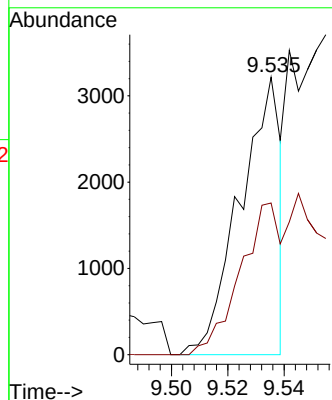
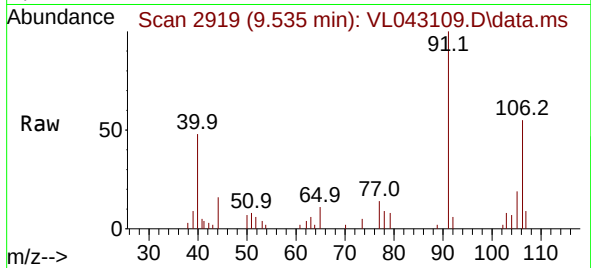




#59
m/p-Xylene
Concen: 0.078 ppbv
RT: 9.535 min Scan# 2919
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

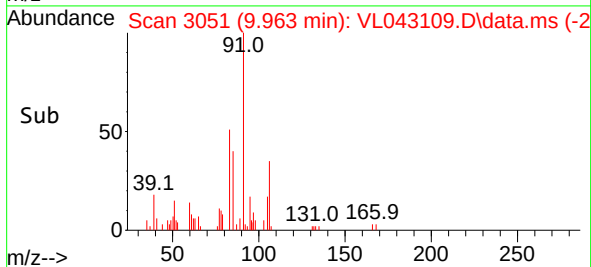
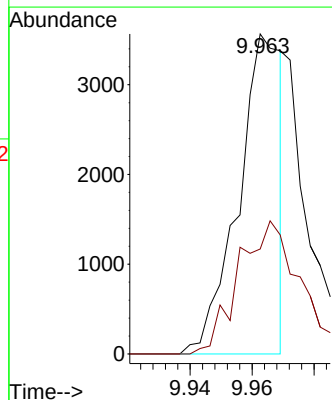
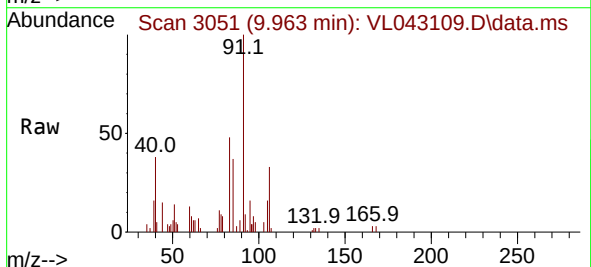
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

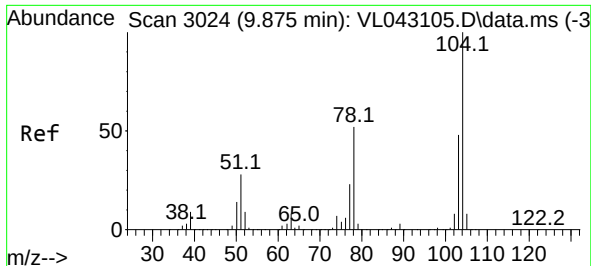
Tgt Ion: 91 Resp: 3213
Ion Ratio Lower Upper
91 100
106 0.0 38.0 57.0#



#60
o-Xylene
Concen: 0.085 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. -0.007 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion: 91 Resp: 3450
Ion Ratio Lower Upper
91 100
106 57.9 21.9 65.8

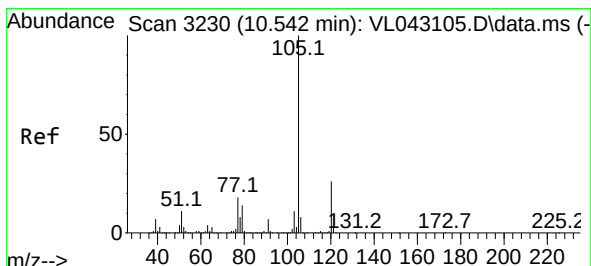
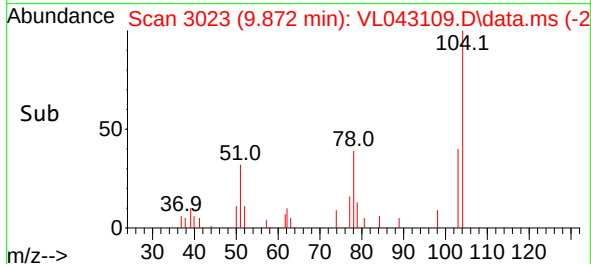
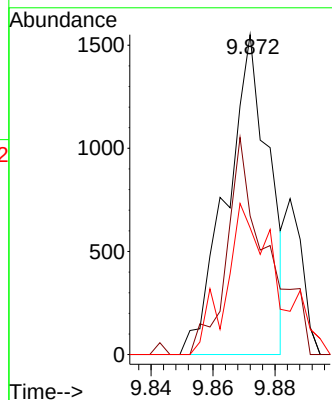
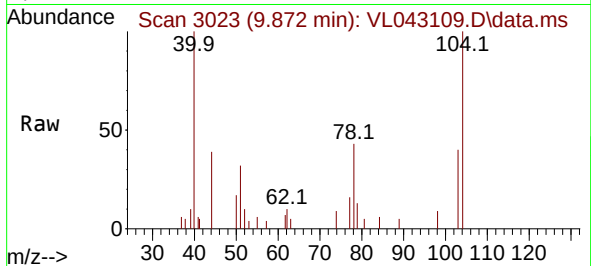




#61
Styrene
Concen: 0.081 ppbv
RT: 9.872 min Scan# 3024
Delta R.T. -0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

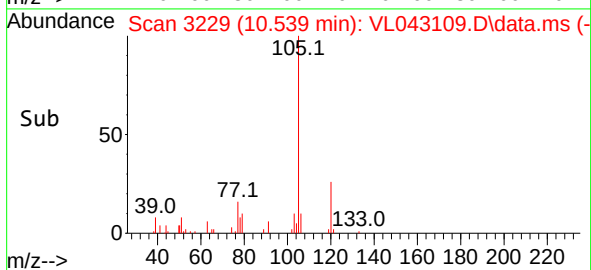
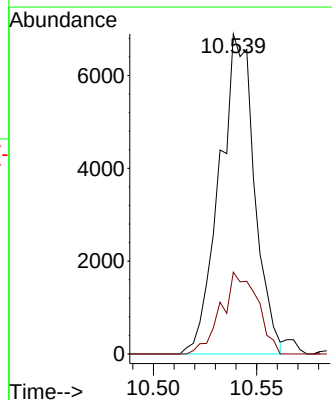
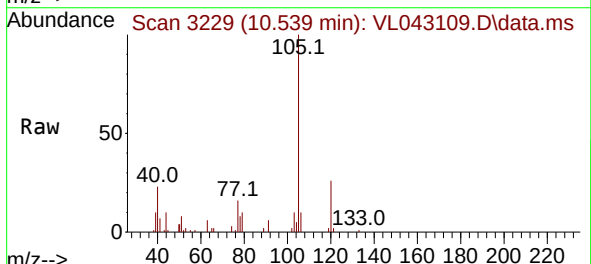
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

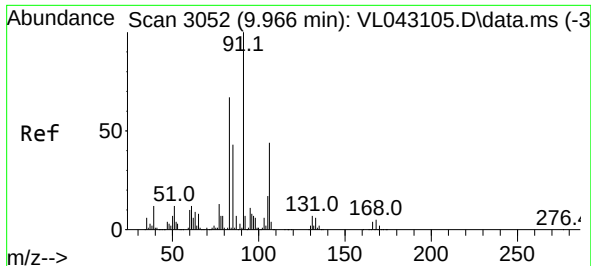
Tgt Ion:104 Resp: 1475
Ion Ratio Lower Upper
104 100
78 64.6 40.2 60.2#
103 56.3 36.9 55.3#



#62
Isopropylbenzene
Concen: 0.111 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. -0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion:105 Resp: 8132
Ion Ratio Lower Upper
105 100
120 26.5 20.2 30.4

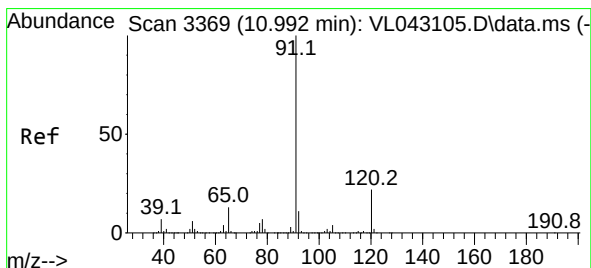
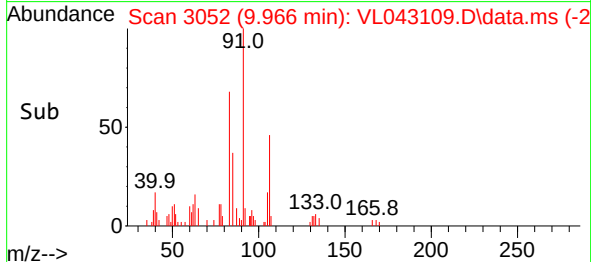
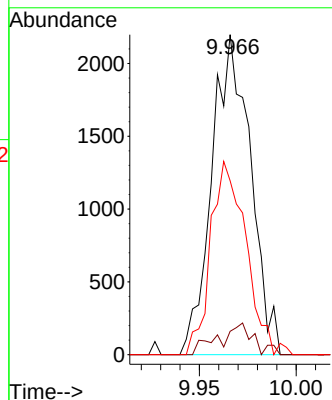
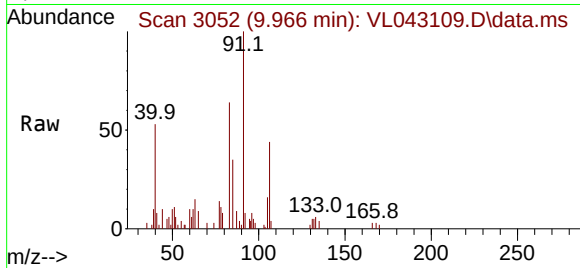




#63
1,1,2,2-Tetrachloroethane
Concen: 0.113 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

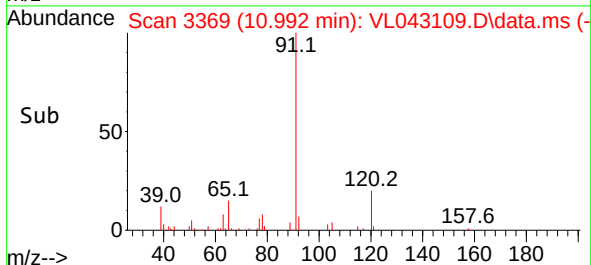
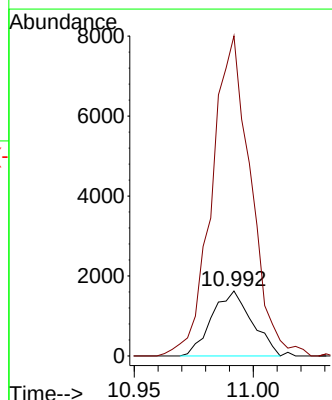
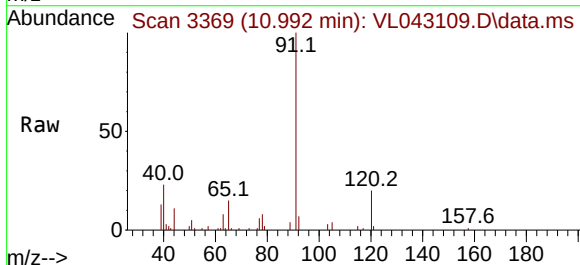
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

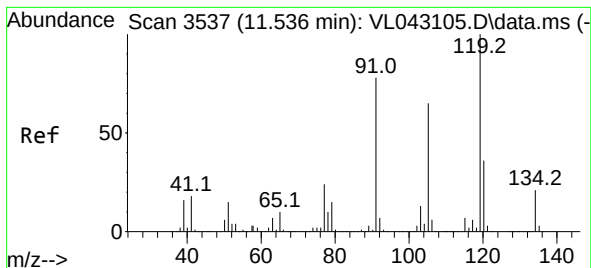
Tgt Ion: 83 Resp: 3053
Ion Ratio Lower Upper
83 100
131 8.9 4.8 14.3
85 55.2 32.0 96.0



#64
n-propylbenzene
Concen: 0.098 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion: 120 Resp: 1906
Ion Ratio Lower Upper
120 100
91 484.6 361.6 542.4





#65

tert-Butylbenzene

Concen: 0.108 ppbv

RT: 11.532 min Scan# 3536

Delta R.T. -0.003 min

Lab File: VL043109.D

Acq: 14 Oct 2025 13:08

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

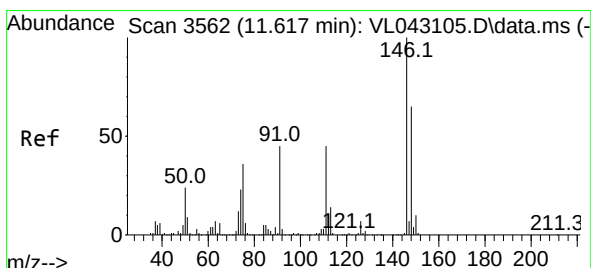
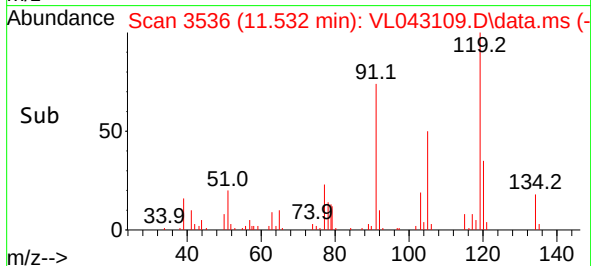
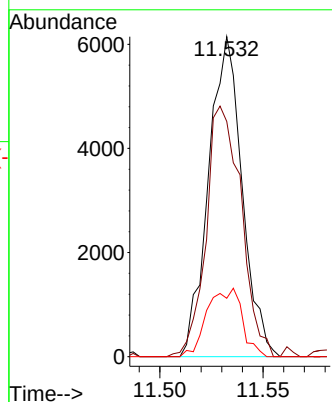
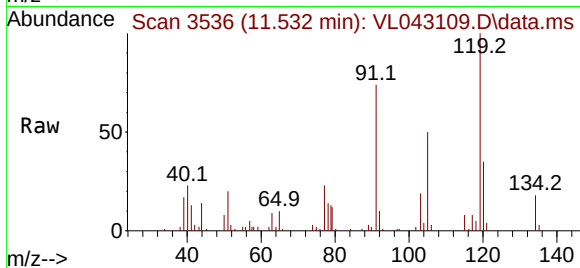
Tgt Ion:119 Resp: 6951

Ion Ratio Lower Upper

119 100

91 82.7 63.4 95.0

134 22.2 17.3 25.9



#66

Benzyl Chloride

Concen: 0.038 ppbv

RT: 11.617 min Scan# 3562

Delta R.T. -0.000 min

Lab File: VL043109.D

Acq: 14 Oct 2025 13:08

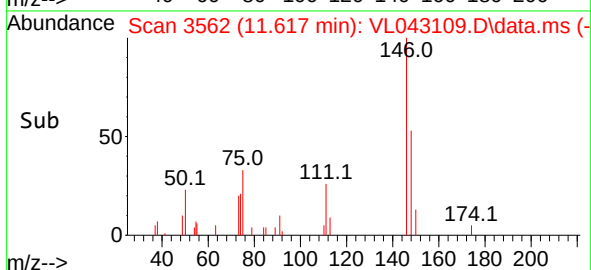
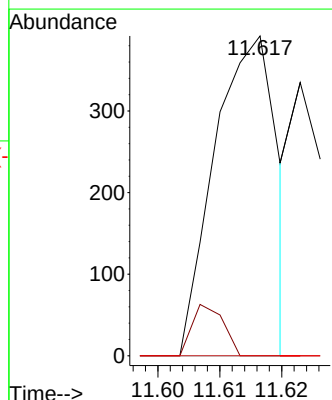
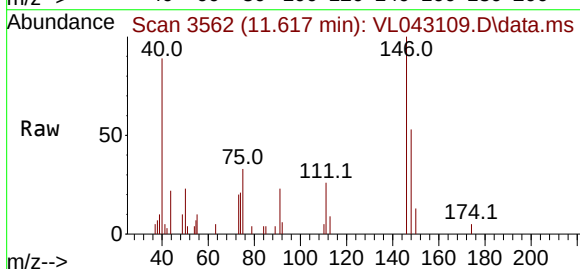
Tgt Ion: 91 Resp: 277

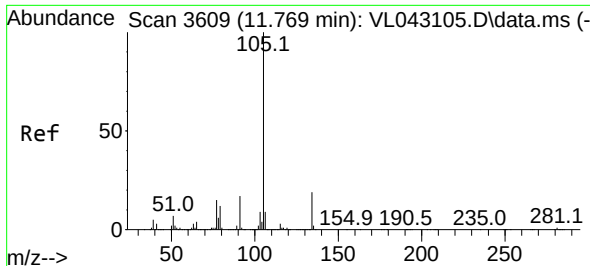
Ion Ratio Lower Upper

91 100

126 7.9 14.6 22.0#

128 0.0 4.6 6.8#

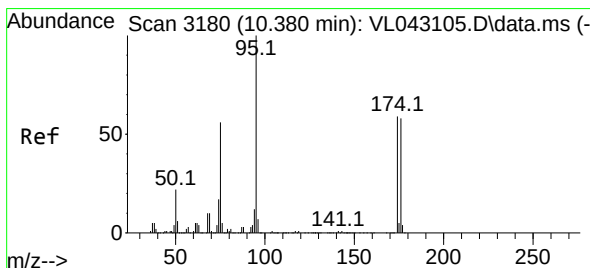
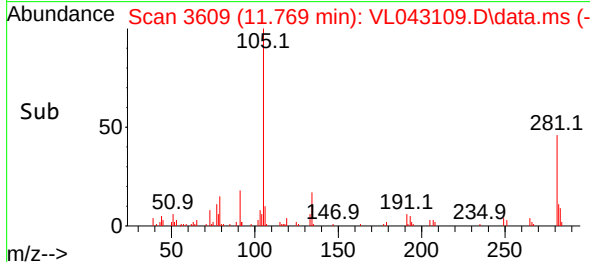
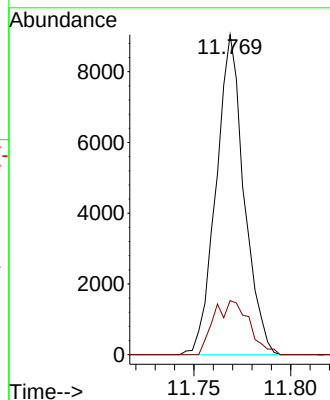
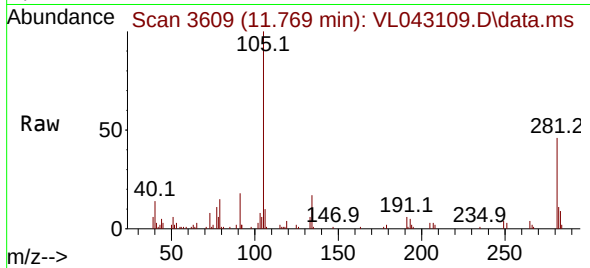




#67
 sec-Butylbenzene
 Concen: 0.099 ppbv
 RT: 11.769 min Scan# 3179
 Delta R.T. -0.000 min
 Lab File: VL043109.D
 Acq: 14 Oct 2025 13:08

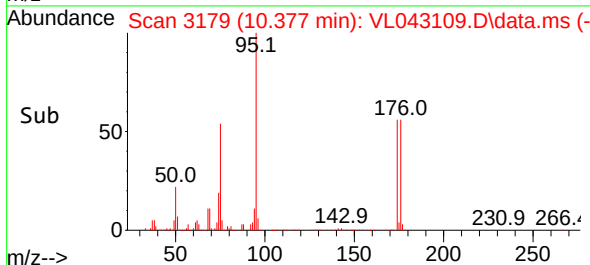
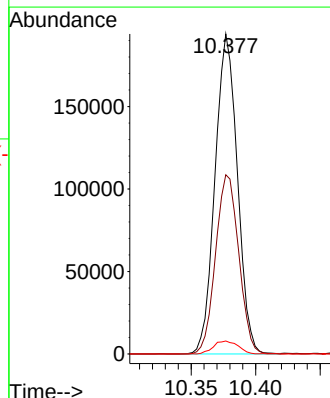
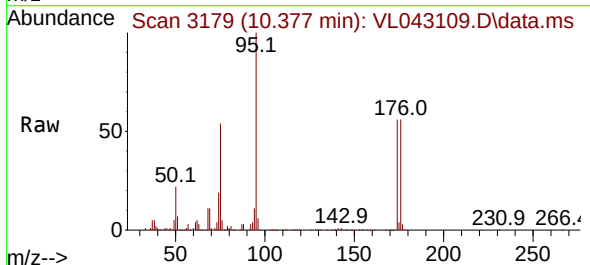
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

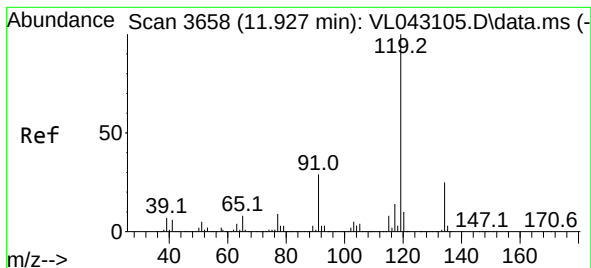
Tgt Ion:105 Resp: 9081
 Ion Ratio Lower Upper
 105 100
 134 21.4 15.5 23.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.032 ppbv
 RT: 10.377 min Scan# 3179
 Delta R.T. -0.003 min
 Lab File: VL043109.D
 Acq: 14 Oct 2025 13:08

Tgt Ion: 95 Resp: 233673
 Ion Ratio Lower Upper
 95 100
 174 58.0 48.3 72.5
 175 4.5 3.8 5.8





#69

p-Isopropyltoluene

Concen: 0.104 ppbv

RT: 11.927 min Scan# 3658

Delta R.T. -0.000 min

Lab File: VL043109.D

Acq: 14 Oct 2025 13:08

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

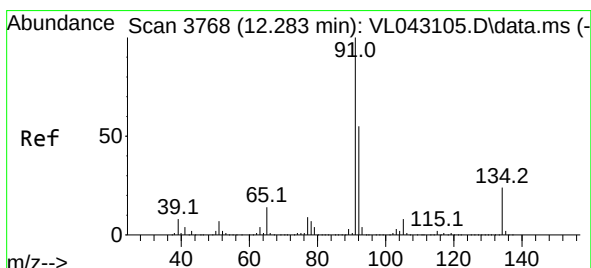
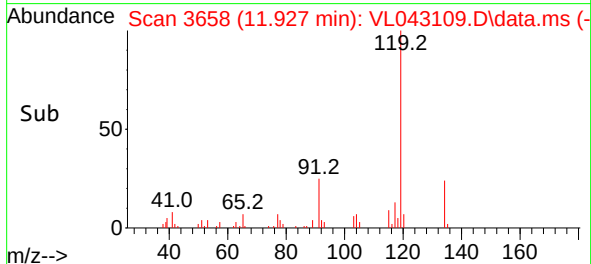
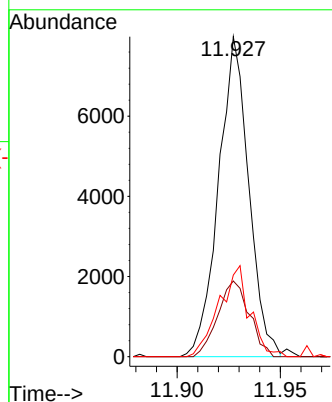
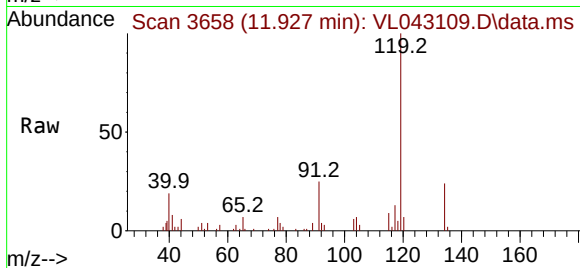
Tgt Ion:119 Resp: 8105

Ion Ratio Lower Upper

119 100

134 24.7 20.3 30.5

91 29.5 22.6 33.8



#70

n-Butylbenzene

Concen: 0.086 ppbv

RT: 12.283 min Scan# 3768

Delta R.T. -0.000 min

Lab File: VL043109.D

Acq: 14 Oct 2025 13:08

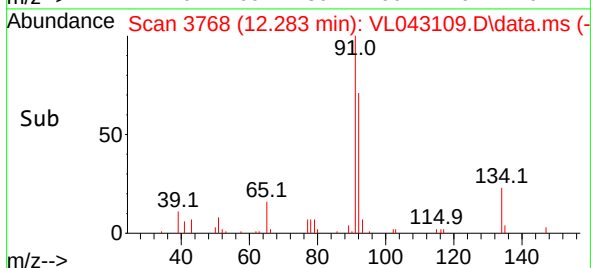
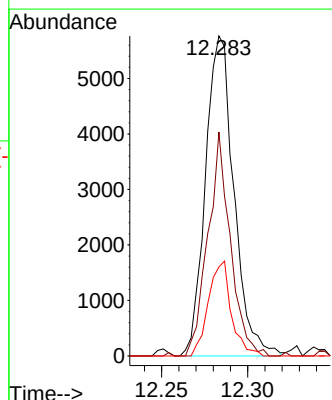
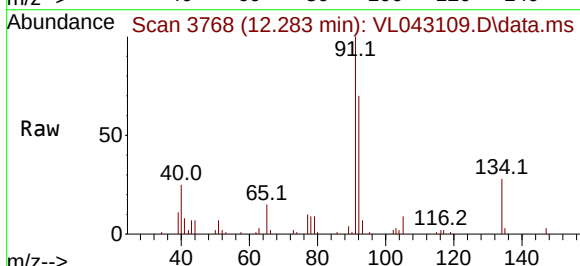
Tgt Ion: 91 Resp: 6640

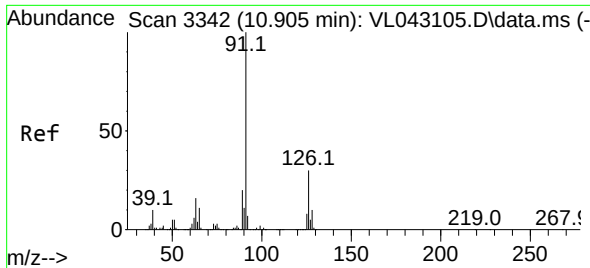
Ion Ratio Lower Upper

91 100

92 55.6 44.5 66.7

134 23.8 19.3 28.9

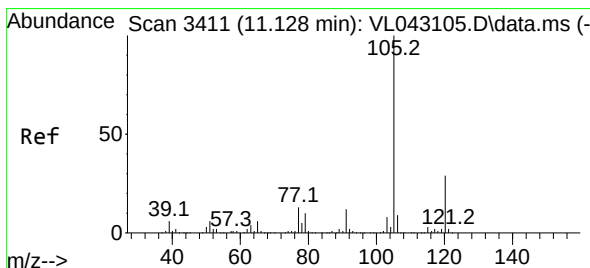
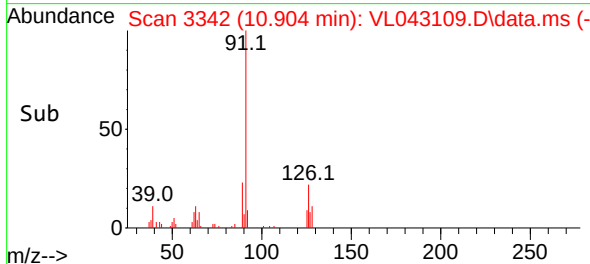
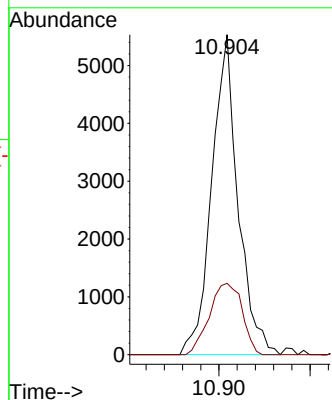
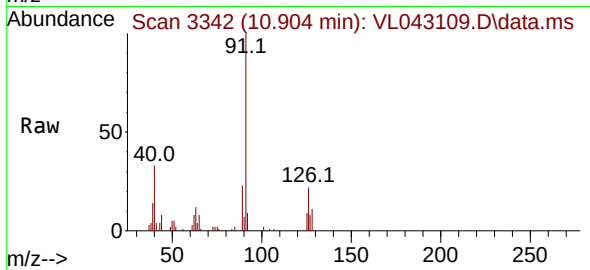




#71
2-Chlorotoluene
Concen: 0.099 ppbv
RT: 10.904 min Scan# 311
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

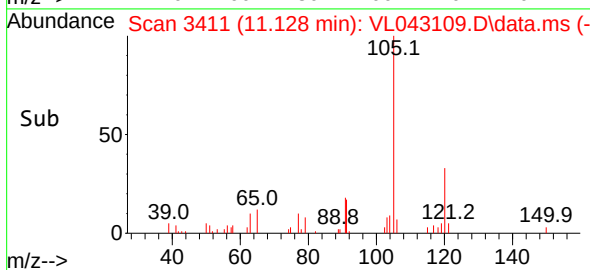
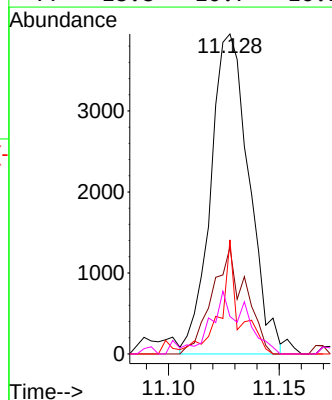
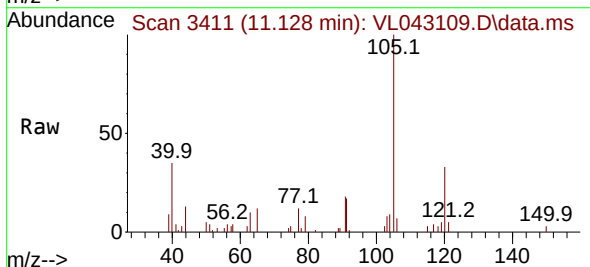
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

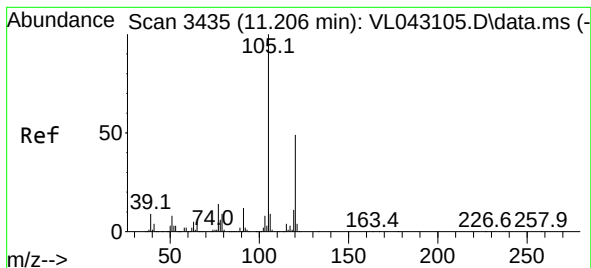
Tgt Ion: 91 Resp: 5527
Ion Ratio Lower Upper
91 100
126 27.9 12.0 48.0



#72
4-Ethyltoluene
Concen: 0.095 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion: 105 Resp: 4754
Ion Ratio Lower Upper
105 100
120 29.1 24.2 36.4
91 18.8 10.0 15.0#
77 18.8 10.7 16.1#





#73

1,3,5-Trimethylbenzene

Concen: 0.114 ppbv

RT: 11.205 min Scan# 3435

Delta R.T. -0.000 min

Lab File: VL043109.D

Acq: 14 Oct 2025 13:08

Instrument :

MSVOA_1

ClientSampleId :

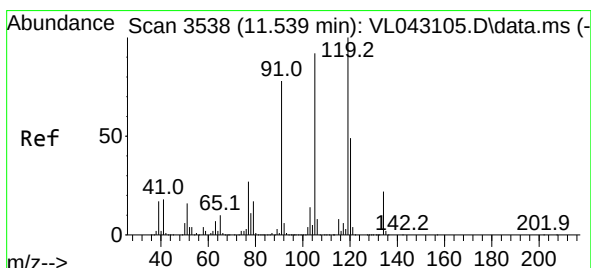
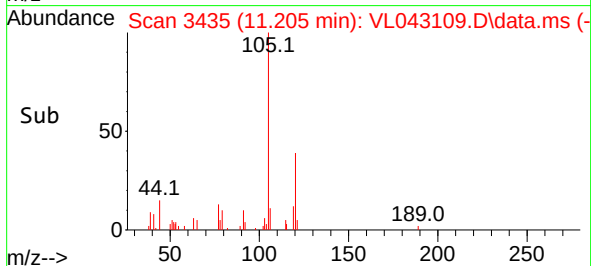
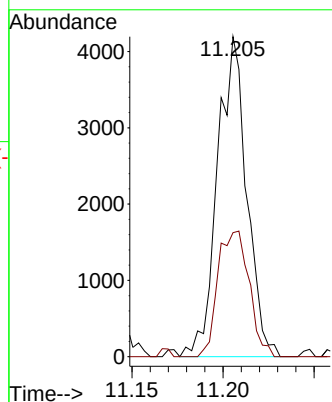
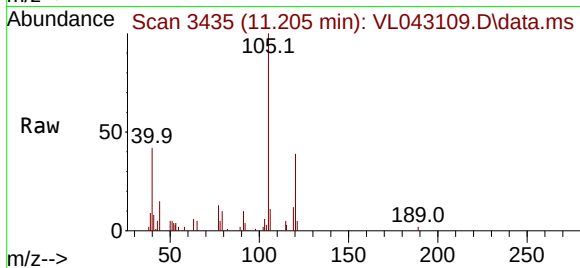
VSTDIC0.1

Tgt Ion:105 Resp: 4680

Ion Ratio Lower Upper

105 100

120 38.7 39.0 58.6#



#74

1,2,4-Trimethylbenzene

Concen: 0.098 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. -0.003 min

Lab File: VL043109.D

Acq: 14 Oct 2025 13:08

Tgt Ion:105 Resp: 4519

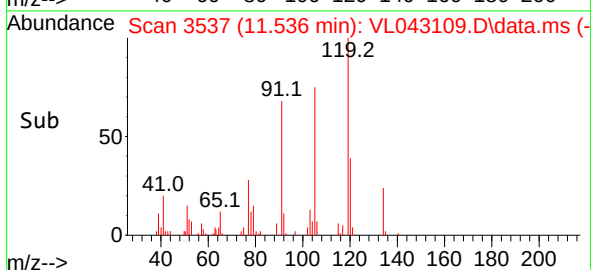
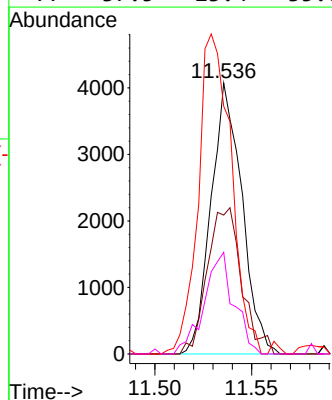
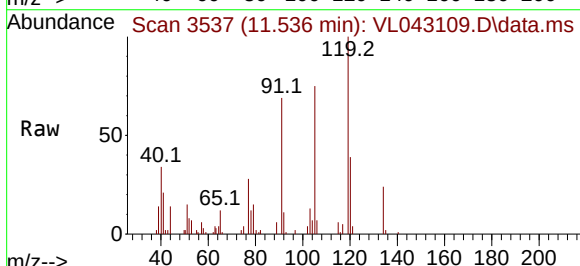
Ion Ratio Lower Upper

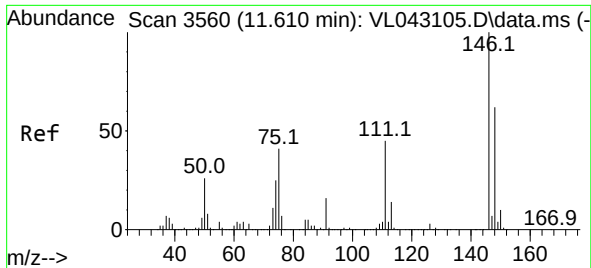
105 100

120 51.3 42.8 64.2

91 89.4 68.3 102.5

77 37.5 23.4 35.0#

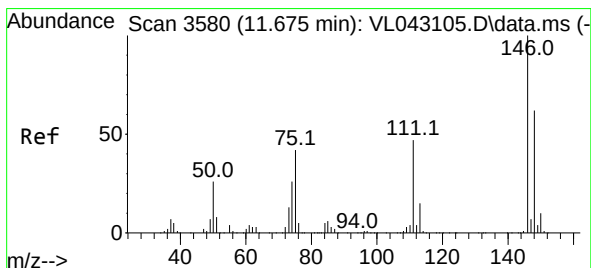
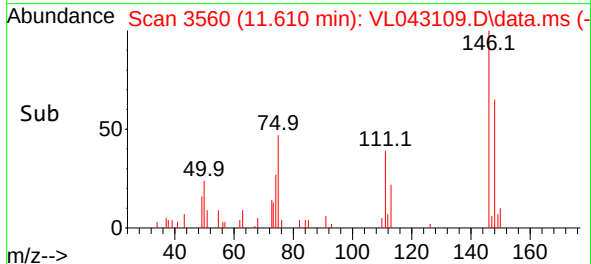
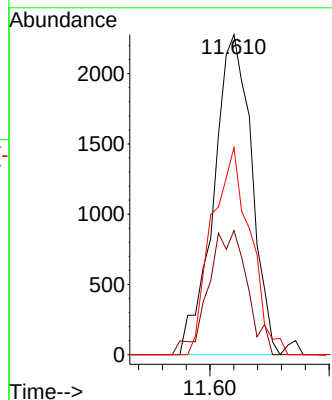
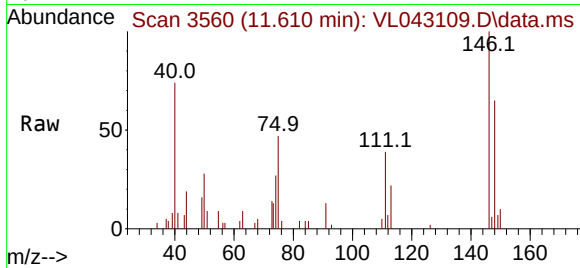




#75
1,3-Dichlorobenzene
Concen: 0.094 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

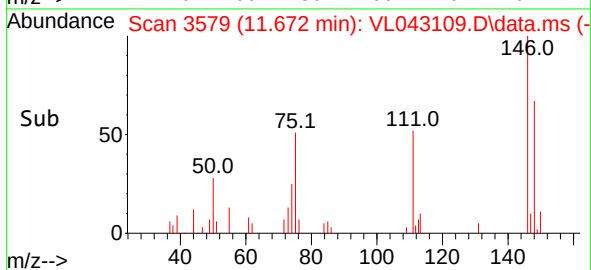
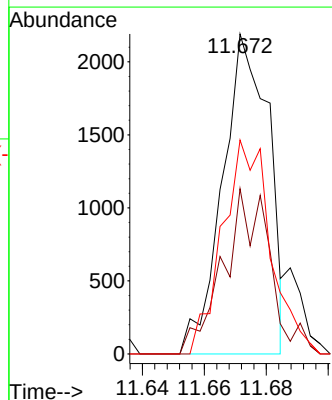
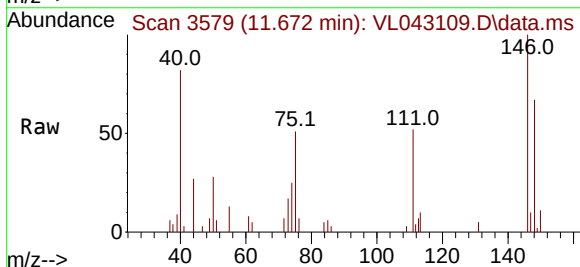
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

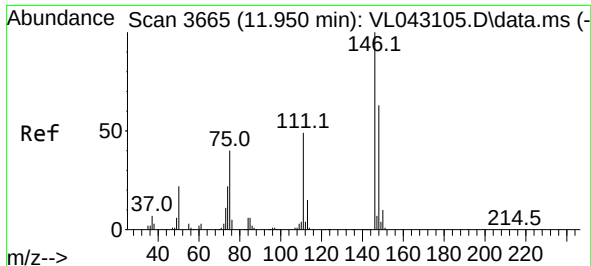
Tgt Ion:146 Resp: 2518
Ion Ratio Lower Upper
146 100
111 39.9 23.3 69.9
148 66.0 31.6 95.0



#76
1,4-Dichlorobenzene
Concen: 0.084 ppbv
RT: 11.672 min Scan# 3579
Delta R.T. -0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion:146 Resp: 2266
Ion Ratio Lower Upper
146 100
111 52.0 22.4 67.0
148 69.5 31.6 94.7

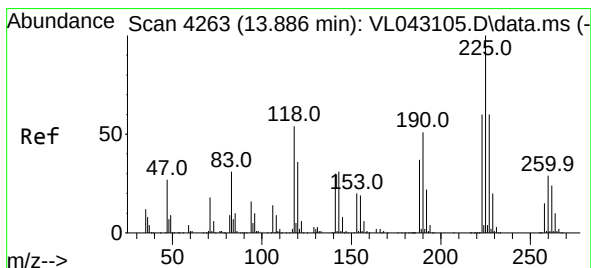
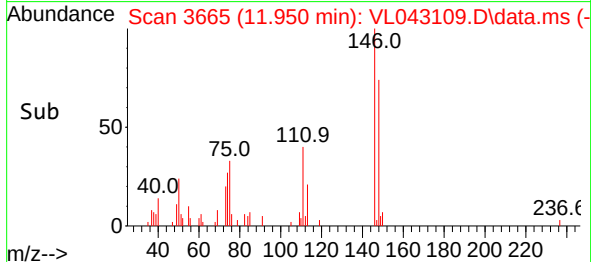
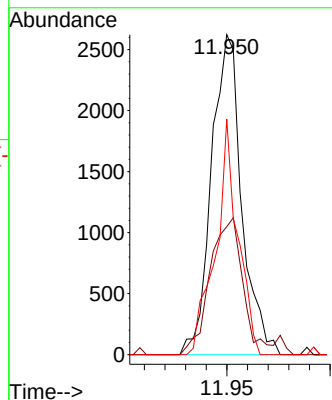
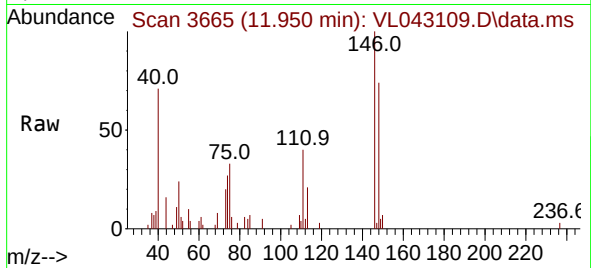




#77
1,2-Dichlorobenzene
Concen: 0.104 ppbv
RT: 11.950 min Scan# 3665
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

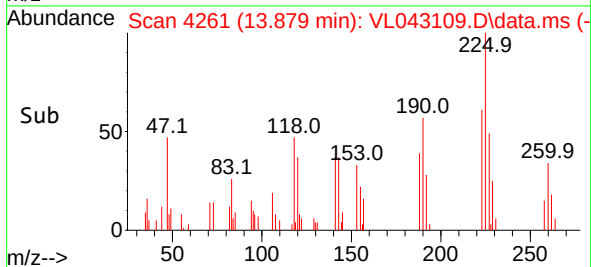
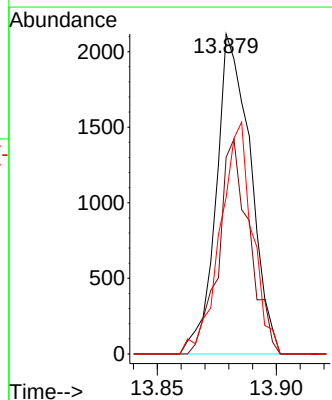
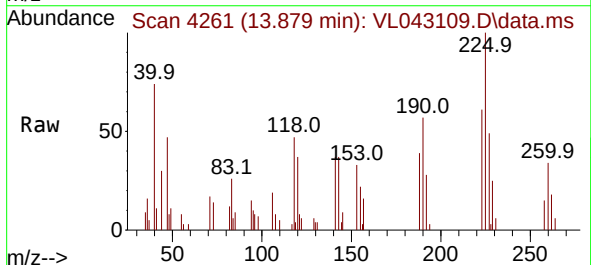
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

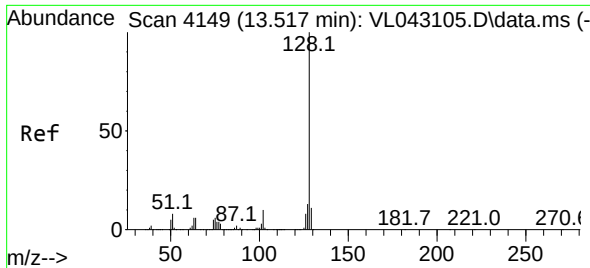
Tgt Ion:	146	Resp:	2676
Ion Ratio	Lower	Upper	
146	100		
111	48.2	24.0	72.0
148	53.9	31.1	93.3



#78
Hexachloro-1,3-Butadiene
Concen: 0.105 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. -0.007 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion:	225	Resp:	2107
Ion Ratio	Lower	Upper	
225	100		
223	60.6	50.2	75.4
227	68.2	49.6	74.4

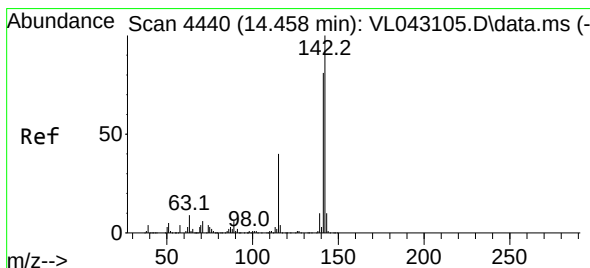
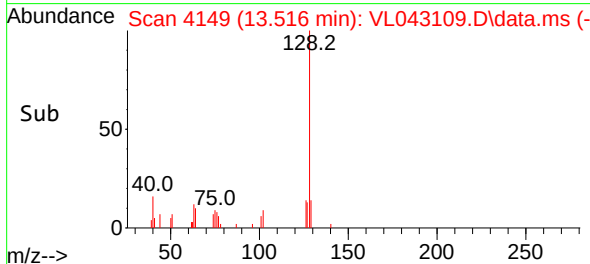
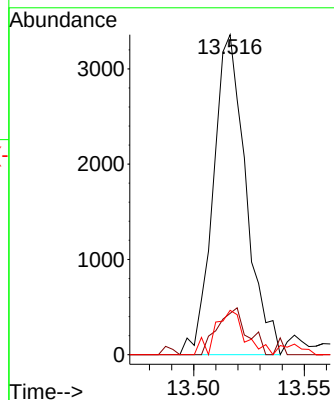
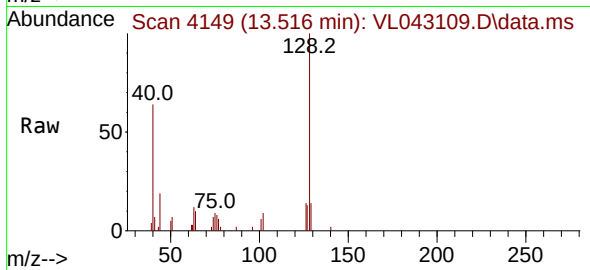




#79
Naphthalene
Concen: 0.073 ppbv
RT: 13.516 min Scan# 4149
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

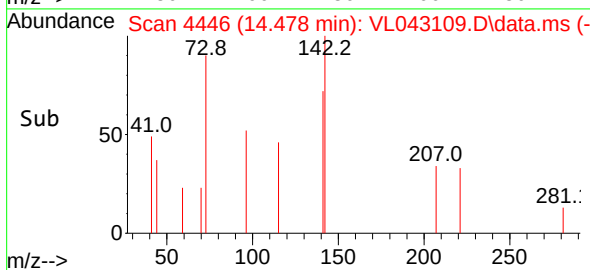
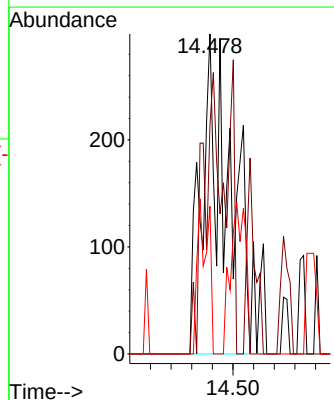
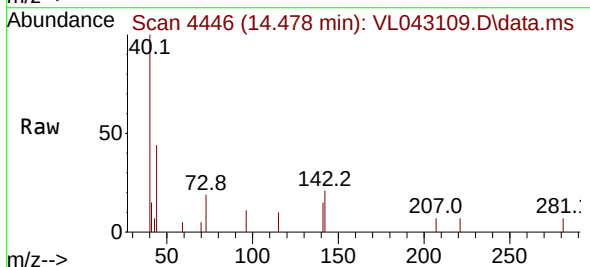
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

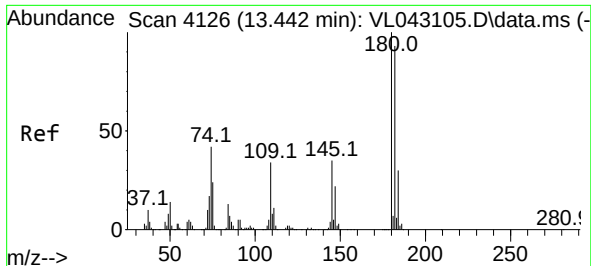
Tgt Ion:128 Resp: 3453
Ion Ratio Lower Upper
128 100
127 12.9 10.5 15.7
129 13.8 9.1 13.7#



#80
Naphthalene,2-methyl-
Concen: 0.046 ppbv
RT: 14.478 min Scan# 4446
Delta R.T. 0.019 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion:142 Resp: 582
Ion Ratio Lower Upper
142 100
141 0.0 64.6 97.0#
115 18.2 30.2 45.4#





#81

1,2,4-Trichlorobenzene

Concen: 0.039 ppbv

RT: 13.442 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL043109.D

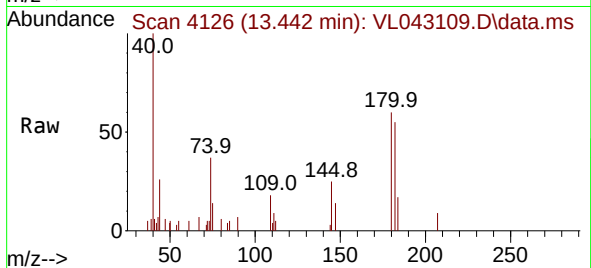
Acq: 14 Oct 2025 13:08

Instrument :

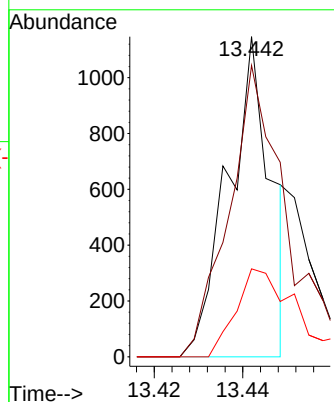
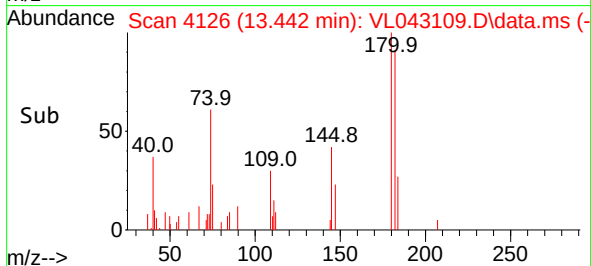
MSVOA_L

ClientSampleId :

VSTDICC0.1



Tgt Ion:	180	Resp:	774
Ion	Ratio	Lower	Upper
180	100		
182	119.1	75.5	113.3#
184	37.6	23.9	35.9#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
 Data File : VL043110.D
 Acq On : 14 Oct 2025 13:42
 Operator : SY/MD
 Sample : VSTDICC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

Quant Time: Oct 15 01:55:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 01:49:43 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	100058	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	328897	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	292884	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	224043	9.841	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.400%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	546	0.038	ppbv	100
3) Chlorodifluoromethane	1.480	51	572	0.037	ppbv #	35
4) Chloromethane	1.535	50	354	0.063	ppbv #	53
5) Vinyl Chloride	1.583	62	217	0.039	ppbv #	78
6) Bromomethane	1.670	94	110	0.036	ppbv #	56
7) Chloroethane	1.706	64	136	0.060	ppbv #	42
8) Dichlorotetrafluoroethane	1.557	85	358	0.031	ppbv #	75
9) Propene	1.486	41	524	0.077	ppbv #	1
10) Heptane	4.988	43	203	0.010	ppbv #	27
11) Trichlorofluoromethane	2.137	101	209	0.015	ppbv	85
12) 1,1,2-Trichlorotrifluo...	2.143	101	220	0.020	ppbv #	13
13) Ethanol	1.793	45	201	0.080	ppbv #	1
14) Bromoethene	1.781	108	202	0.049	ppbv #	22
15) Acetone	1.839	43	1339	0.099	ppbv #	56
16) 1,3-Butadiene	1.612	39	710	0.110	ppbv	88
17) tert-Butyl alcohol	2.049	59	599	0.032	ppbv #	1
18) 1,1-Dichloroethene	2.036	96	232	0.048	ppbv	88
19) Isopropyl Alcohol	1.891	45	263	0.031	ppbv	95
20) Methylene Chloride	2.062	84	1624	0.305	ppbv #	83
21) Allyl Chloride	2.094	41	645	0.065	ppbv #	1
22) trans-1,2-Dichloroethene	2.344	96	240	0.041	ppbv	87
23) Vinyl Acetate	2.470	43	699	0.035	ppbv #	44
24) 1,1-Dichloroethane	2.412	63	383	0.034	ppbv #	87
25) Ethyl Acetate	2.845	43	998	0.030	ppbv #	85
26) Hexane	2.823	57	740	0.048	ppbv #	81
27) Carbon Disulfide	2.149	76	215	0.015	ppbv #	1
28) Methyl tert-Butyl Ether	2.444	73	309	0.044	ppbv #	1
29) Chloroform	2.849	83	839	0.038	ppbv #	67
30) Cyclohexane	3.865	84	276	0.021	ppbv #	1
31) cis-1,2-Dichloroethene	2.719	61	467	0.032	ppbv #	73
32) 1,1,1-Trichloroethane	3.376	97	336	0.014	ppbv #	1
34) 2-Butanone	2.564	43	909	0.041	ppbv #	89
35) Carbon Tetrachloride	3.768	117	216	0.009	ppbv #	73
36) Benzene	3.658	78	246	0.008	ppbv #	1
37) 1,2-Dichloroethane	3.221	62	772	0.043	ppbv #	87
38) Trichloroethene	4.551	130	216	0.017	ppbv #	77
39) 1,2-Dichloropropane	3.959	63	79938	7.052	ppbv #	25
40) 1,4-Dioxane	4.609	88	33	0.007	ppbv #	1
41) Tetrahydrofuran	3.049	42	87	0.007	ppbv #	37
42) Bromodichloromethane	4.496	83	250	0.010	ppbv #	26
43) Methyl Methacrylate	4.875	69	36	0.002	ppbv #	1
44) 2,2,4-Trimethylpentane	4.638	57	669	0.013	ppbv #	1
45) t-1,3-Dichloropropene	6.415	75	165	0.010	ppbv #	87

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
 Data File : VL043110.D
 Acq On : 14 Oct 2025 13:42
 Operator : SY/MD
 Sample : VSTDICC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

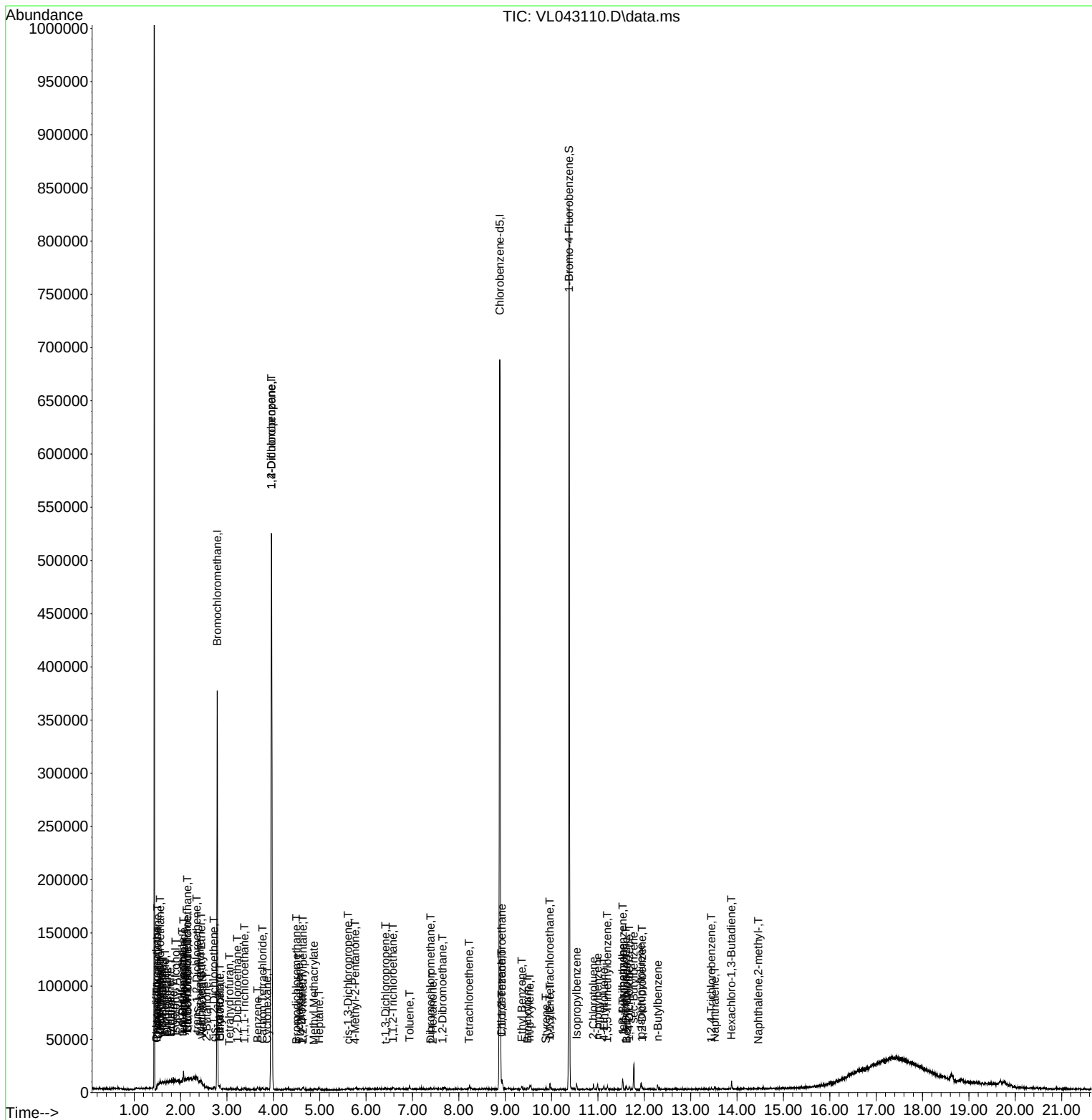
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

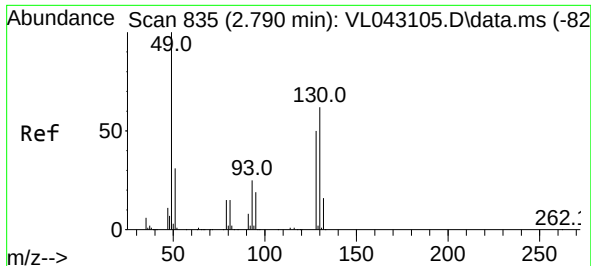
Quant Time: Oct 15 01:55:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 01:49:43 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
46) cis-1,3-Dichloropropene	5.606	75	261	0.014	ppbv	#	80
47) 1,1,2-Trichloroethane	6.577	97	98	0.008	ppbv	#	42
48) Dibromochloromethane	7.390	129	186	0.009	ppbv	#	1
49) Bromoform	9.480	173	323	0.019	ppbv	#	56
50) 4-Methyl-2-Pentanone	5.762	43	271	0.009	ppbv	#	38
51) 2-Hexanone	7.438	43	98	0.004	ppbv	#	27
52) Tetrachloroethene	8.218	164	120	0.011	ppbv	#	67
53) Toluene	6.936	91	632	0.017	ppbv	#	20
54) 1,2-Dibromoethane	7.649	107	308	0.016	ppbv		86
56) 1,1,1,2-Tetrachloroethane	8.927	131	441	0.024	ppbv	#	14
57) Chlorobenzene	8.921	112	764	0.028	ppbv	#	63
58) Ethyl Benzene	9.357	91	1218	0.024	ppbv	#	83
59) m/p-Xylene	9.529	91	759	0.019	ppbv	#	29
60) o-Xylene	9.966	91	693	0.018	ppbv	#	32
61) Styrene	9.875	104	538	0.030	ppbv	#	88
62) Isopropylbenzene	10.539	105	1735	0.024	ppbv		90
63) 1,1,2,2-Tetrachloroethane	9.960	83	369	0.014	ppbv	#	1
64) n-propylbenzene	10.995	120	616	0.033	ppbv		92
65) tert-Butylbenzene	11.533	119	2219	0.035	ppbv		95
66) Benzyl Chloride	11.620	91	98	0.014	ppbv	#	65
67) sec-Butylbenzene	11.769	105	3170	0.035	ppbv		96
69) p-Isopropyltoluene	11.927	119	2370	0.031	ppbv	#	90
70) n-Butylbenzene	12.290	91	1534	0.020	ppbv	#	92
71) 2-Chlorotoluene	10.901	91	1757	0.032	ppbv		100
72) 4-Ethyltoluene	11.128	105	1502	0.031	ppbv	#	90
73) 1,3,5-Trimethylbenzene	11.202	105	1005	0.025	ppbv	#	83
74) 1,2,4-Trimethylbenzene	11.533	105	806	0.018	ppbv		89
75) 1,3-Dichlorobenzene	11.600	146	251	0.010	ppbv	#	1
76) 1,4-Dichlorobenzene	11.672	146	504	0.019	ppbv	#	24
77) 1,2-Dichlorobenzene	11.950	146	709	0.028	ppbv		79
78) Hexachloro-1,3-Butadiene	13.876	225	239	0.012	ppbv	#	19
79) Naphthalene	13.520	128	851	0.018	ppbv	#	94
80) Naphthalene,2-methyl-	14.458	142	15	0.001	ppbv	#	1
81) 1,2,4-Trichlorobenzene	13.445	180	219	0.011	ppbv	#	79

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

Quant Time: Oct 15 01:55:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 01:49:43 2025
Response via : Initial Calibration

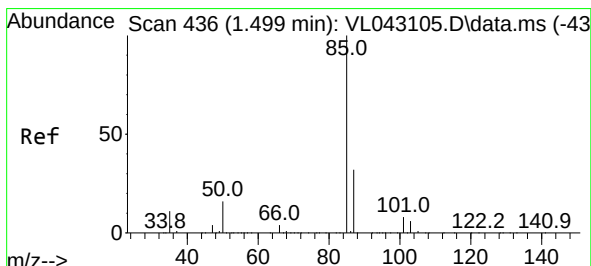
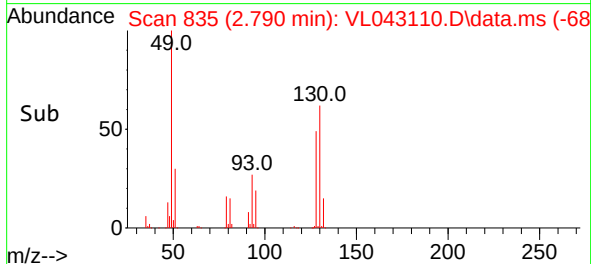
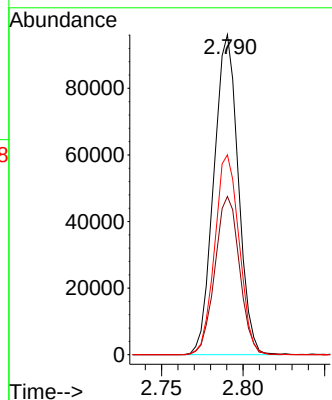
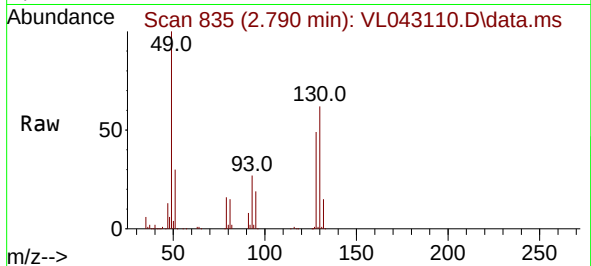




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.000 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

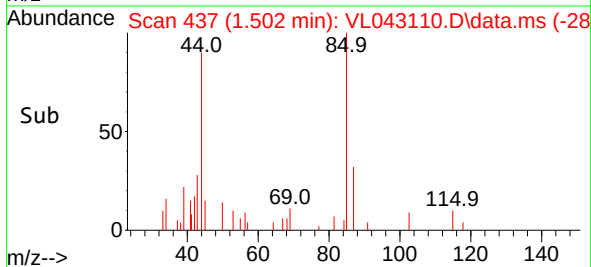
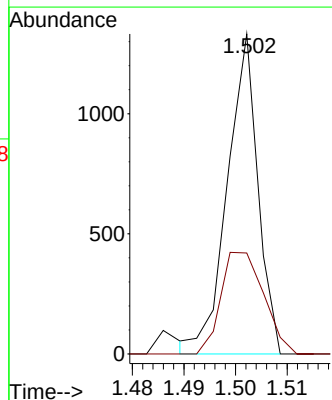
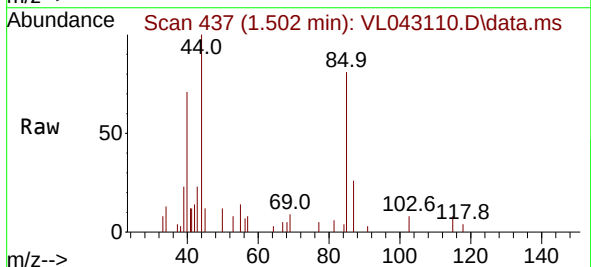
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

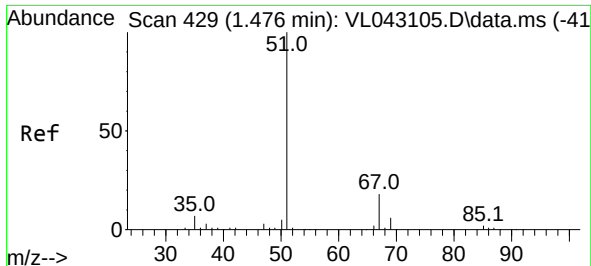
Tgt Ion: 49 Resp: 100058
Ion Ratio Lower Upper
49 100
128 49.9 24.4 73.4
130 62.5 31.0 93.0



#2
Dichlorodifluoromethane
Concen: 0.038 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion: 85 Resp: 546
Ion Ratio Lower Upper
85 100
87 31.5 25.3 37.9

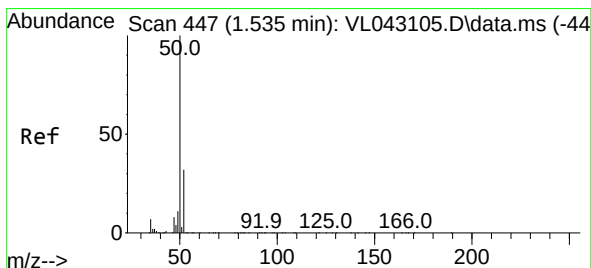
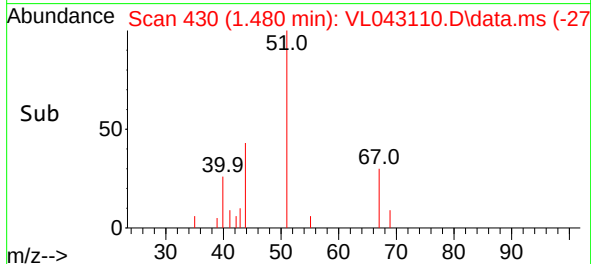
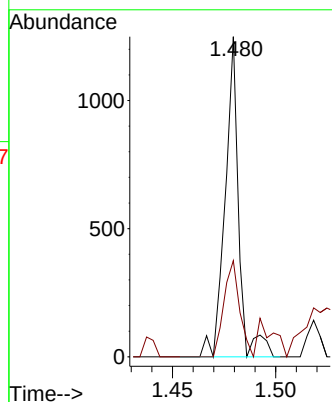
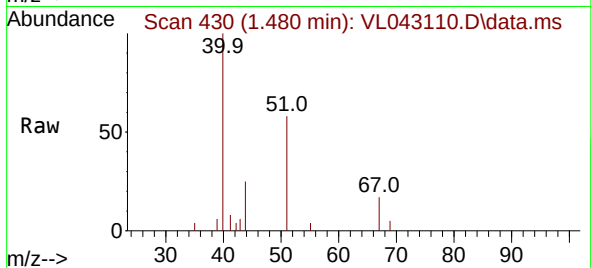




#3
Chlorodifluoromethane
Concen: 0.037 ppbv
RT: 1.480 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

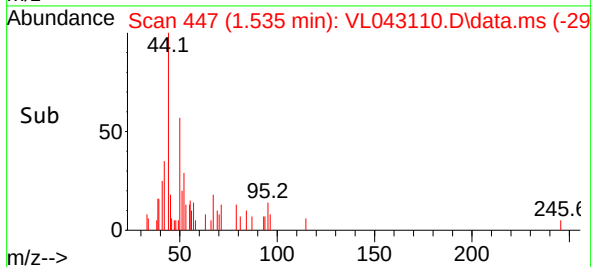
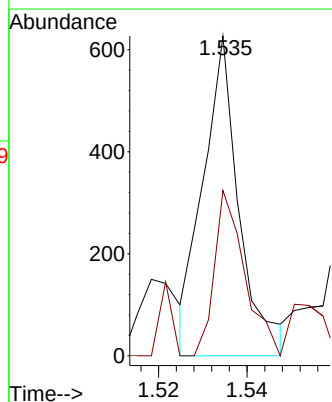
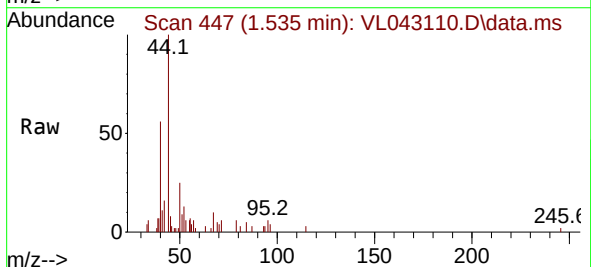
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

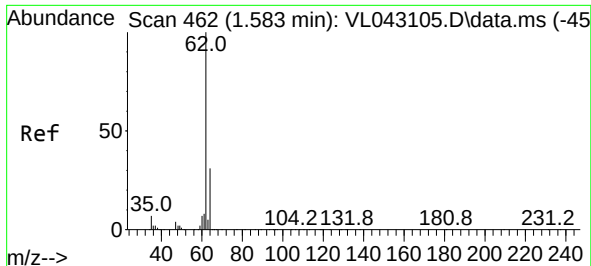
Tgt Ion: 51 Resp: 572
Ion Ratio Lower Upper
51 100
67 48.1 15.1 22.7#



#4
Chloromethane
Concen: 0.063 ppbv
RT: 1.535 min Scan# 447
Delta R.T. -0.000 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion: 50 Resp: 354
Ion Ratio Lower Upper
50 100
52 57.3 25.2 37.8#

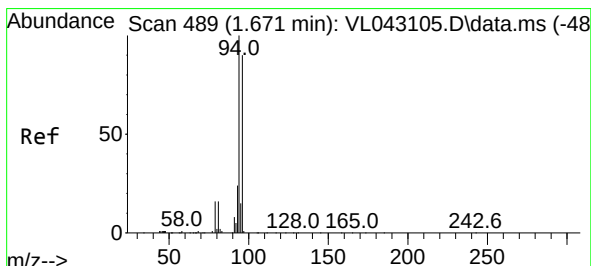
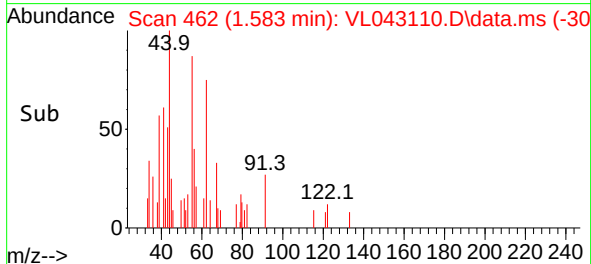
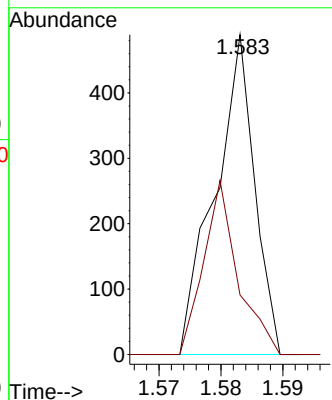
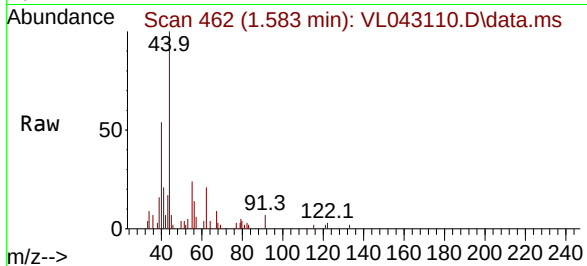




#5
 Vinyl Chloride
 Concen: 0.039 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. -0.000 min
 Lab File: VL043110.D
 Acq: 14 Oct 2025 13:42

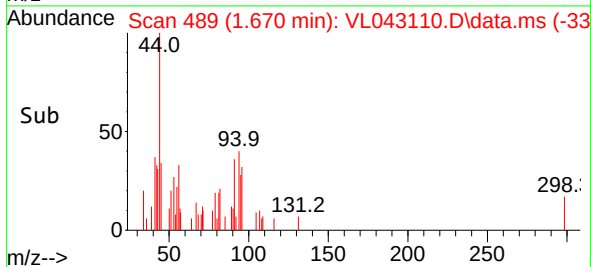
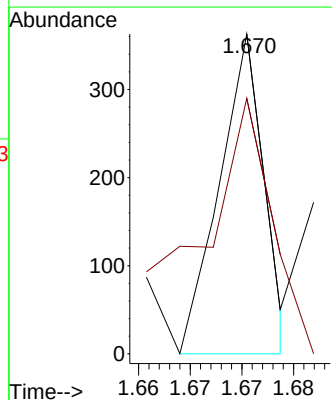
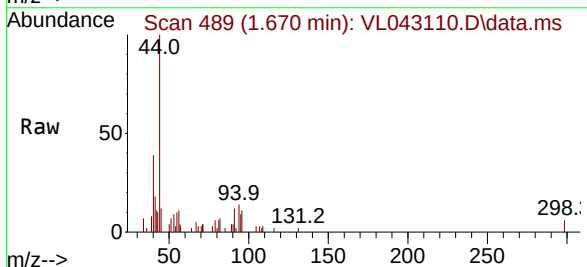
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

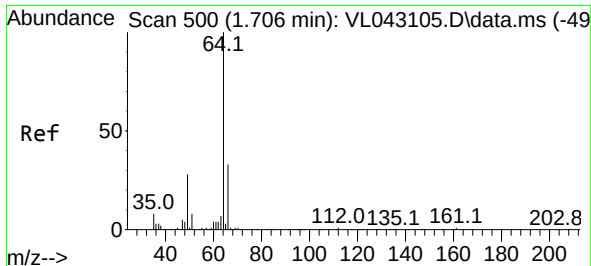
Tgt Ion: 62 Resp: 217
 Ion Ratio Lower Upper
 62 100
 64 18.6 24.6 36.8#



#6
 Bromomethane
 Concen: 0.036 ppbv
 RT: 1.670 min Scan# 489
 Delta R.T. -0.000 min
 Lab File: VL043110.D
 Acq: 14 Oct 2025 13:42

Tgt Ion: 94 Resp: 110
 Ion Ratio Lower Upper
 94 100
 96 48.8 72.2 108.4#

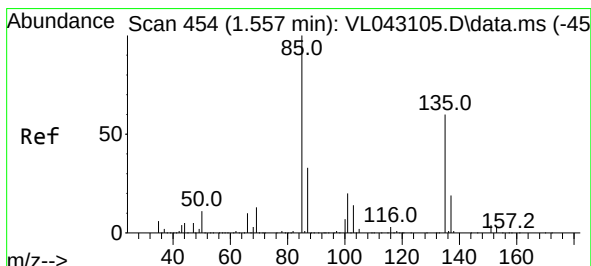
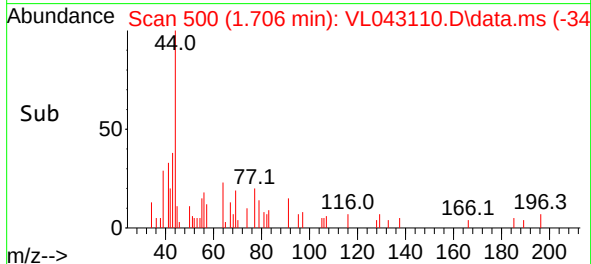
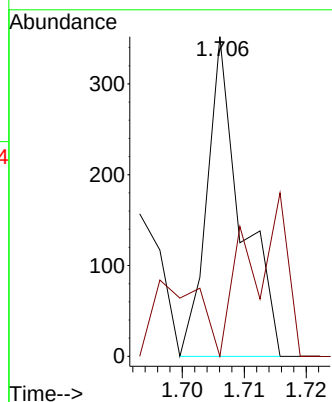
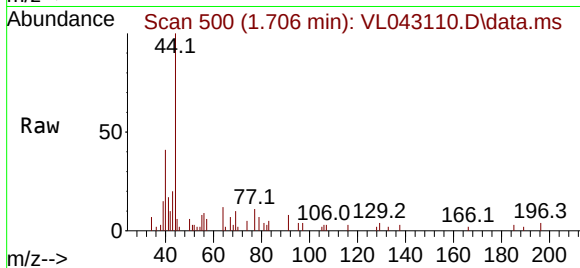




#7
Chloroethane
Concen: 0.060 ppbv
RT: 1.706 min Scan# 500
Delta R.T. -0.000 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

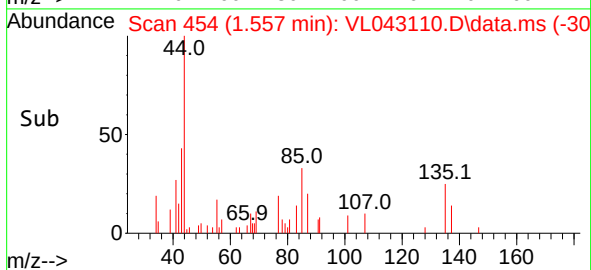
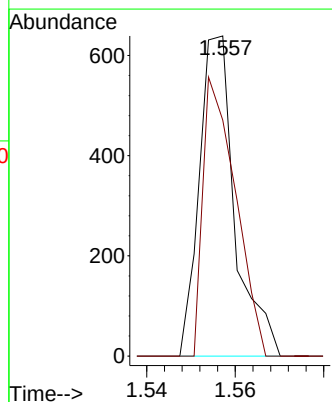
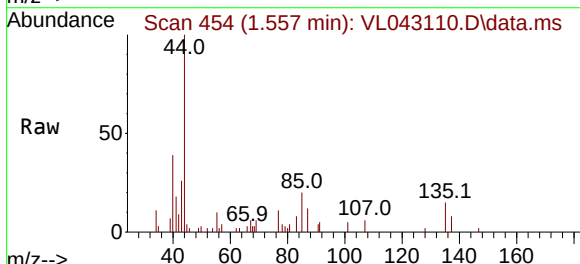
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

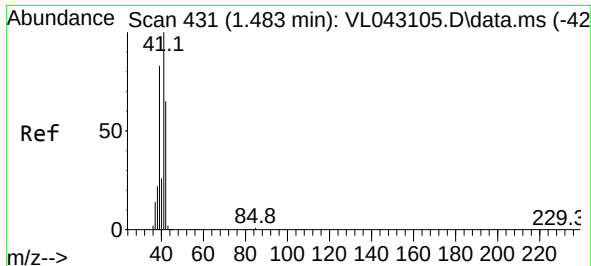
Tgt Ion: 64 Resp: 136
Ion Ratio Lower Upper
64 100
66 0.0 26.0 39.0#



#8
Dichlorotetrafluoroethane
Concen: 0.031 ppbv
RT: 1.557 min Scan# 454
Delta R.T. -0.000 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion: 85 Resp: 358
Ion Ratio Lower Upper
85 100
135 79.6 48.2 72.4#





#9

Propene

Concen: 0.077 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL043110.D

Acq: 14 Oct 2025 13:42

Instrument :

MSVOA_L

ClientSampleId :

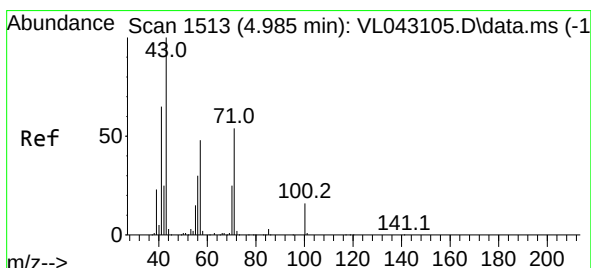
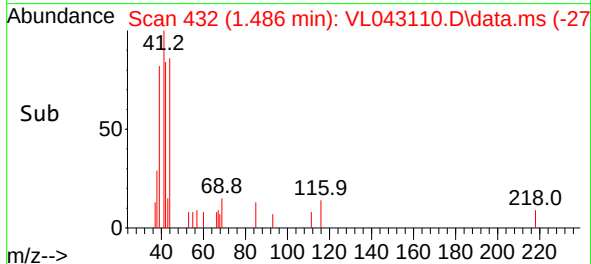
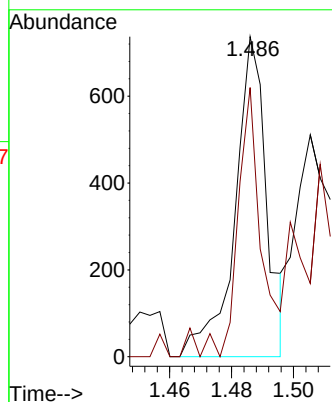
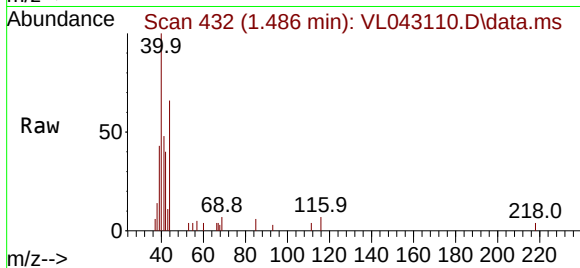
VSTDICC0.03

Tgt Ion: 41 Resp: 524

Ion Ratio Lower Upper

41 100

42 154.8 55.1 82.7#



#10

Heptane

Concen: 0.010 ppbv

RT: 4.988 min Scan# 1514

Delta R.T. 0.003 min

Lab File: VL043110.D

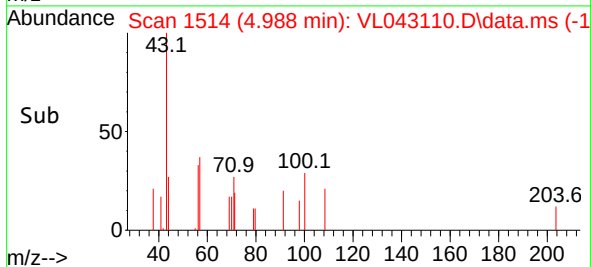
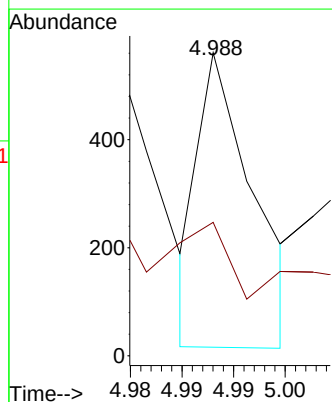
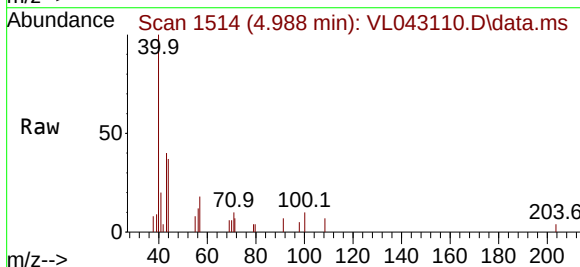
Acq: 14 Oct 2025 13:42

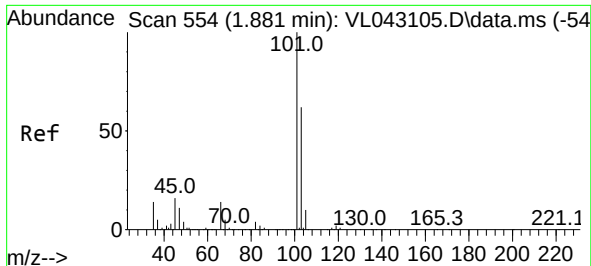
Tgt Ion: 43 Resp: 203

Ion Ratio Lower Upper

43 100

57 0.0 40.8 61.2#

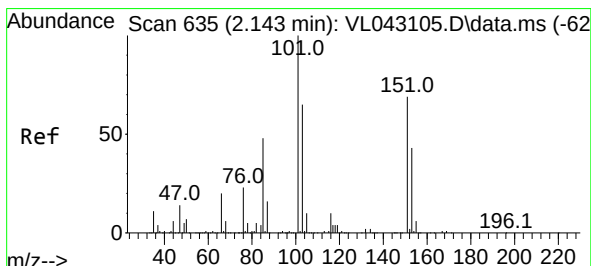
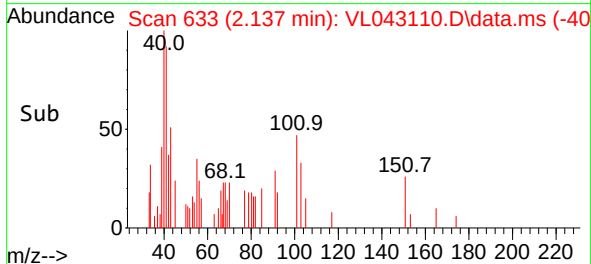
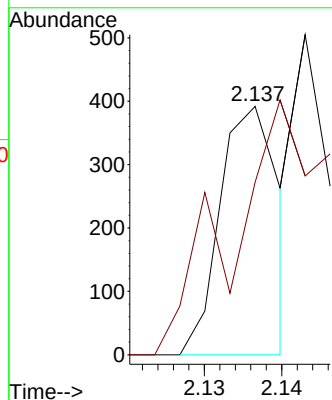
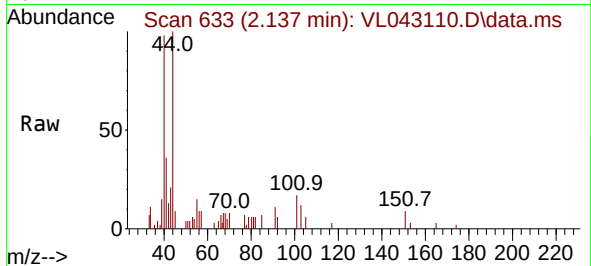




#11
 Trichlorofluoromethane
 Concen: 0.015 ppbv
 RT: 2.137 min Scan# 61
 Delta R.T. 0.256 min
 Lab File: VL043110.D
 Acq: 14 Oct 2025 13:42

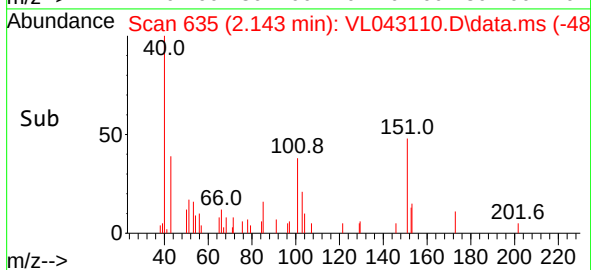
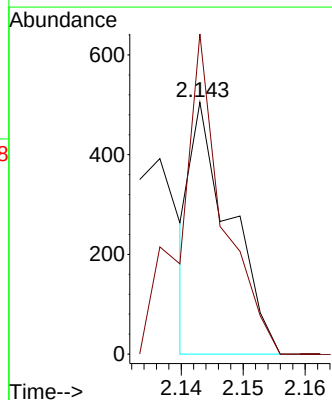
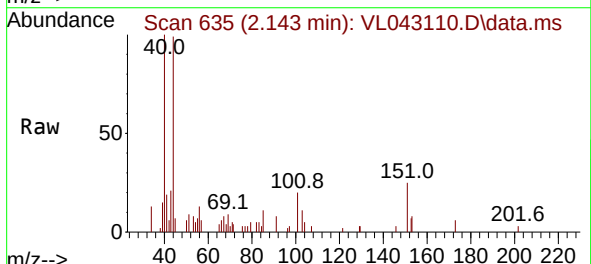
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

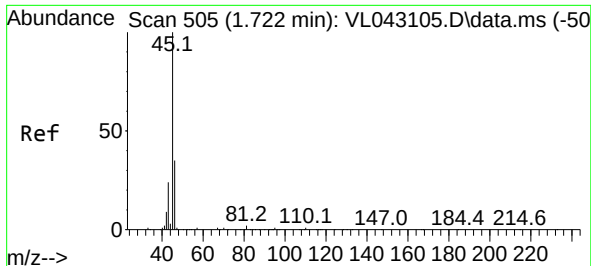
Tgt Ion:101 Resp: 209
 Ion Ratio Lower Upper
 101 100
 103 49.7 49.3 73.9



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.020 ppbv
 RT: 2.143 min Scan# 635
 Delta R.T. -0.000 min
 Lab File: VL043110.D
 Acq: 14 Oct 2025 13:42

Tgt Ion:101 Resp: 220
 Ion Ratio Lower Upper
 101 100
 151 139.1 54.7 82.1#

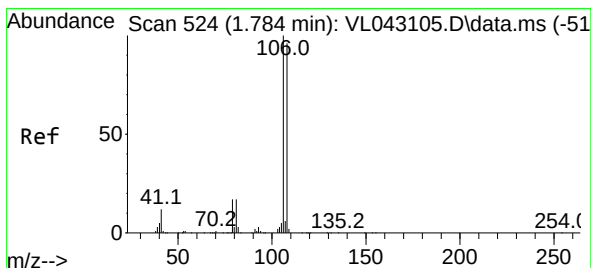
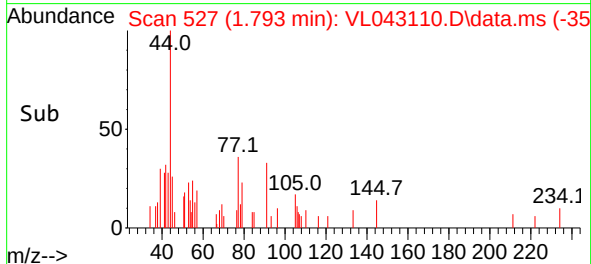
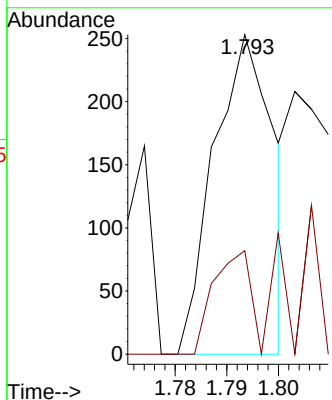
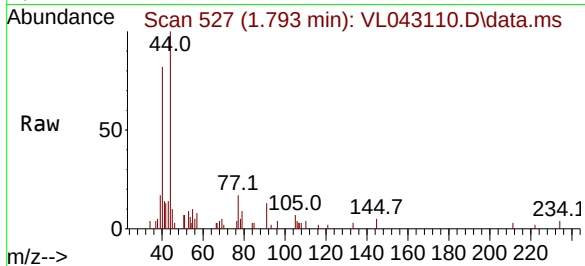




#13
 Ethanol
 Concen: 0.080 ppbv
 RT: 1.793 min Scan# 51
 Delta R.T. 0.071 min
 Lab File: VL043110.D
 Acq: 14 Oct 2025 13:42

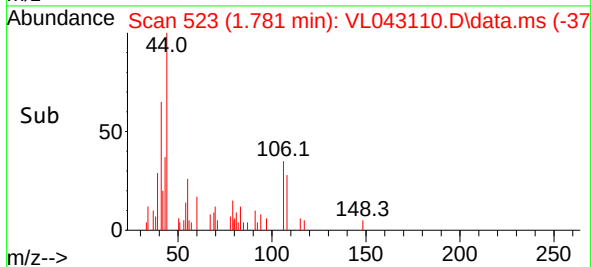
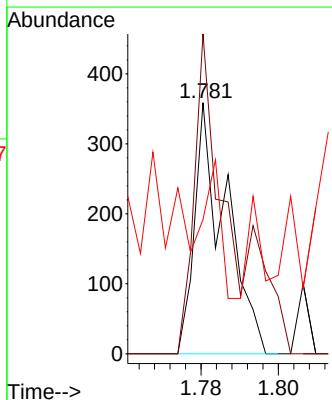
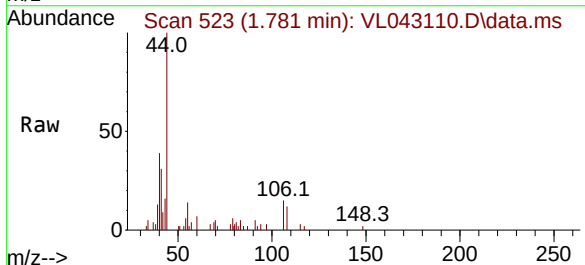
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

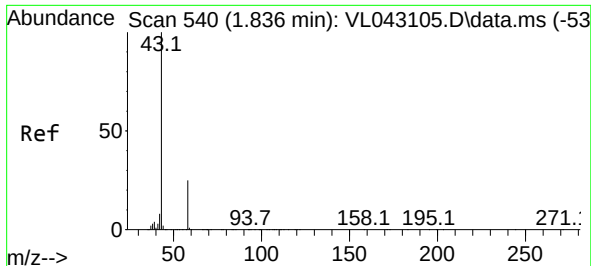
Tgt Ion: 45 Resp: 201
 Ion Ratio Lower Upper
 45 100
 46 146.3 14.7 58.9#



#14
 Bromoethene
 Concen: 0.049 ppbv
 RT: 1.781 min Scan# 523
 Delta R.T. -0.003 min
 Lab File: VL043110.D
 Acq: 14 Oct 2025 13:42

Tgt Ion: 108 Resp: 202
 Ion Ratio Lower Upper
 108 100
 106 144.6 84.4 126.6#
 79 154.0 15.3 22.9#

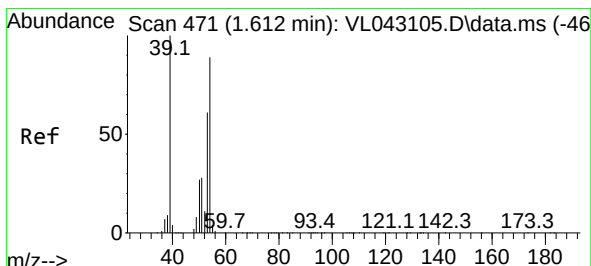
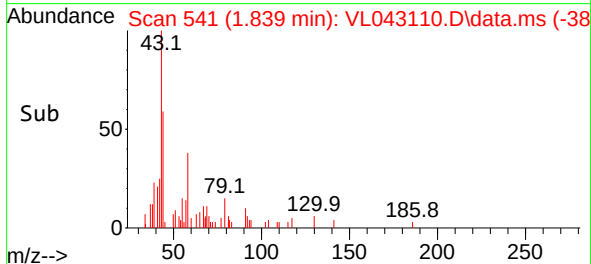
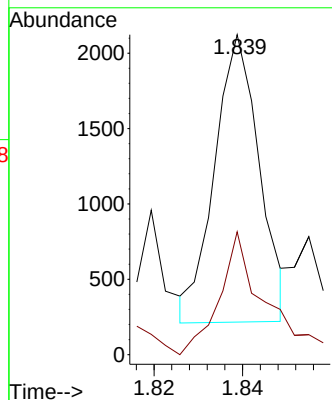
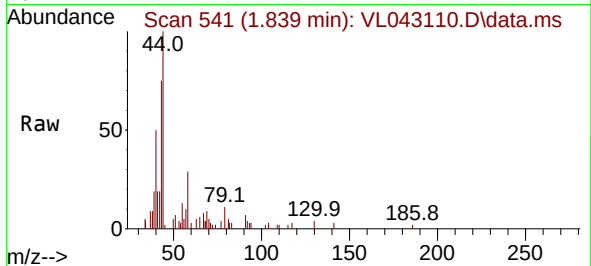




#15
Acetone
Concen: 0.099 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

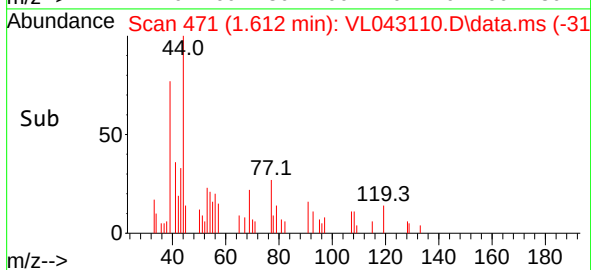
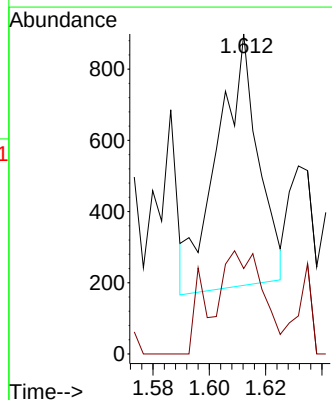
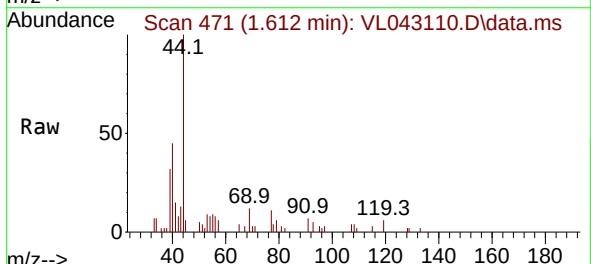
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

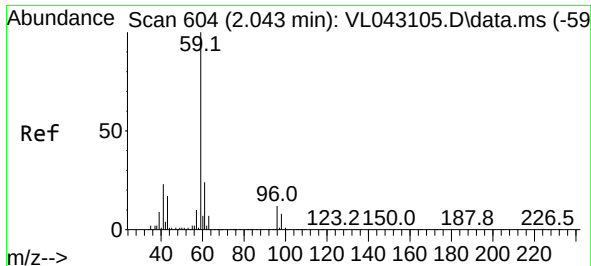
Tgt Ion: 43 Resp: 1339
Ion Ratio Lower Upper
43 100
58 48.2 20.8 31.2#



#16
1,3-Butadiene
Concen: 0.110 ppbv
RT: 1.612 min Scan# 471
Delta R.T. -0.000 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion: 39 Resp: 710
Ion Ratio Lower Upper
39 100
54 63.4 59.0 88.4





#17

tert-Butyl alcohol

Concen: 0.032 ppbv

RT: 2.049 min Scan# 606

Delta R.T. 0.006 min

Lab File: VL043110.D

Acq: 14 Oct 2025 13:42

Instrument :

MSVOA_1

ClientSampleId :

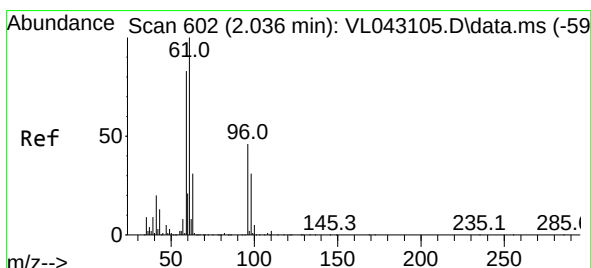
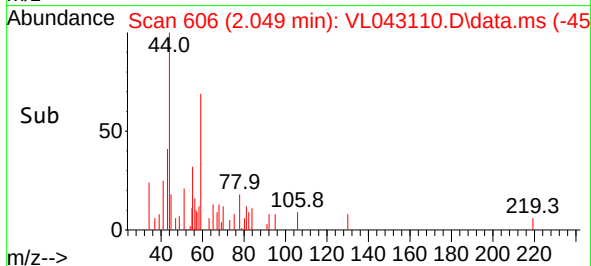
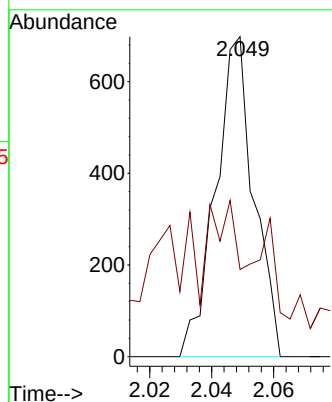
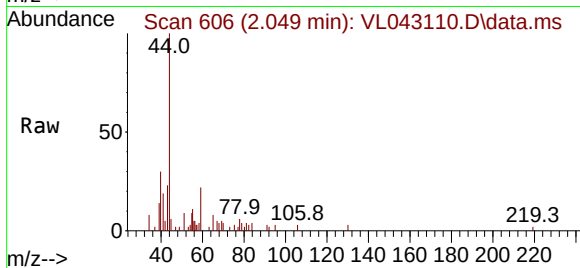
VSTDIC0.03

Tgt Ion: 59 Resp: 599

Ion Ratio Lower Upper

59 100

57 72.6 8.2 12.4#



#18

1,1-Dichloroethene

Concen: 0.048 ppbv

RT: 2.036 min Scan# 602

Delta R.T. -0.000 min

Lab File: VL043110.D

Acq: 14 Oct 2025 13:42

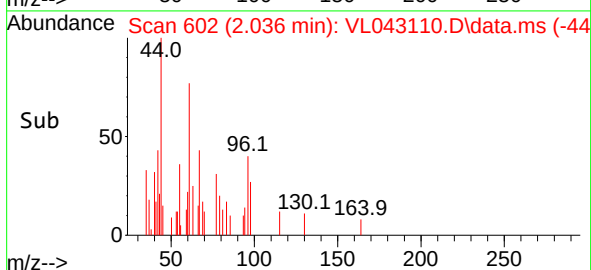
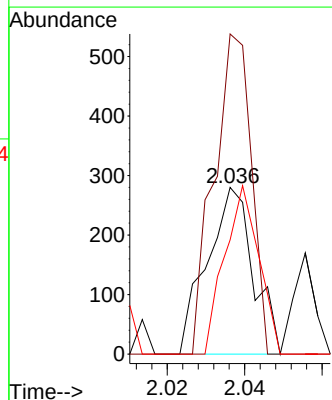
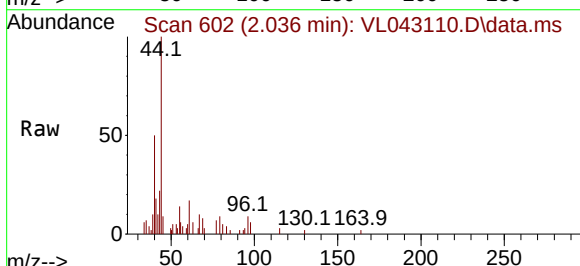
Tgt Ion: 96 Resp: 232

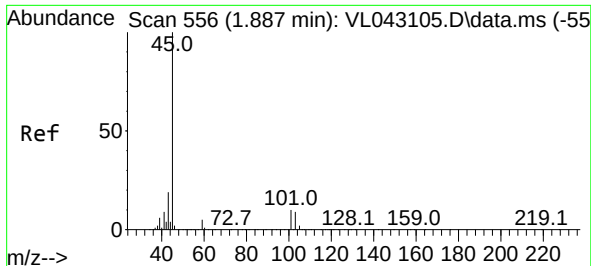
Ion Ratio Lower Upper

96 100

61 192.1 173.4 260.0

98 68.6 53.2 79.8

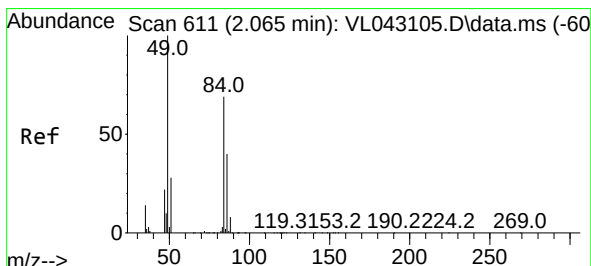
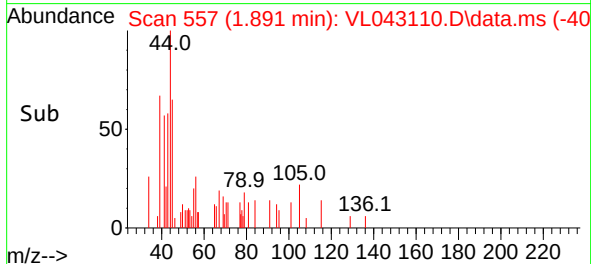
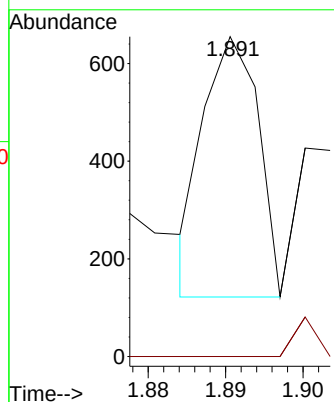
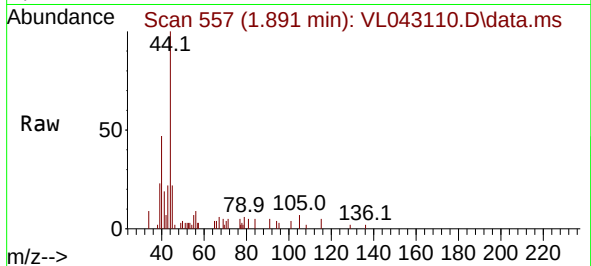




#19
Isopropyl Alcohol
Concen: 0.031 ppbv
RT: 1.891 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

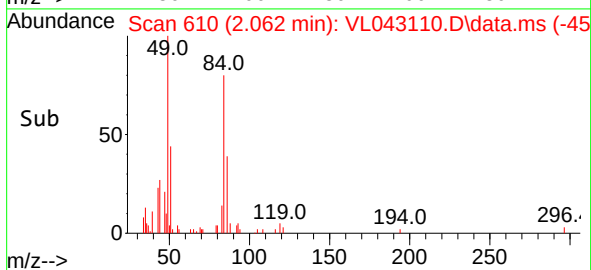
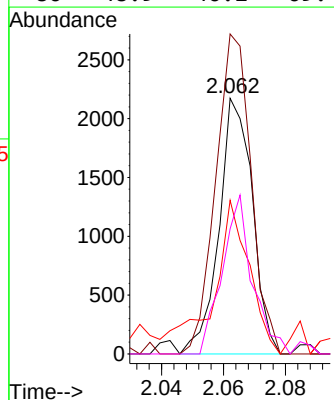
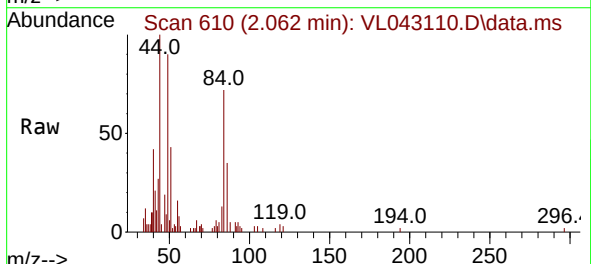
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

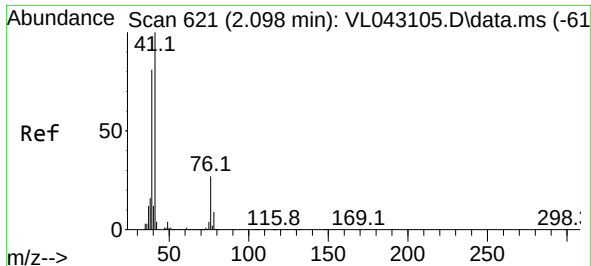
Tgt Ion: 45 Resp: 263
Ion Ratio Lower Upper
45 100
58 35.7 31.3 46.9



#20
Methylene Chloride
Concen: 0.305 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion: 84 Resp: 1624
Ion Ratio Lower Upper
84 100
49 125.2 116.6 175.0
51 60.1 34.8 52.2#
86 48.9 46.2 69.4

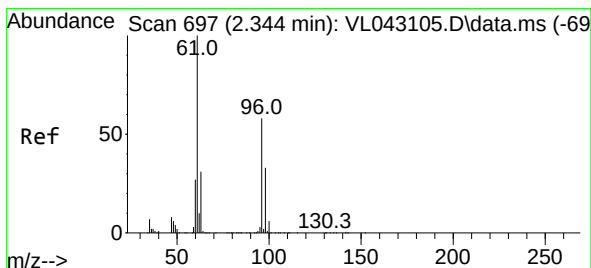
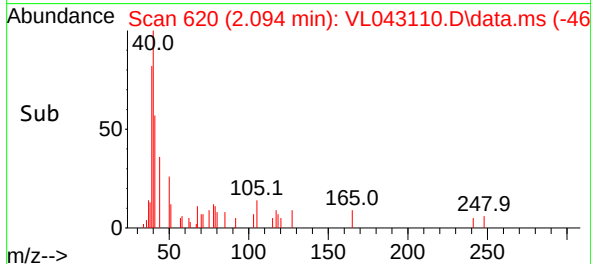
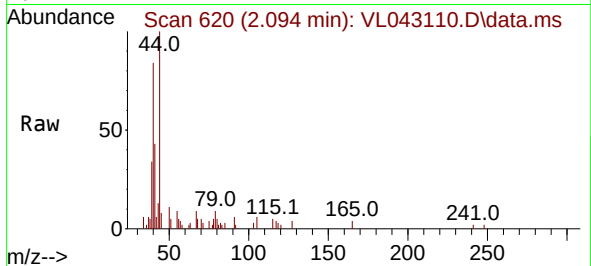




#21
 Allyl Chloride
 Concen: 0.065 ppbv
 RT: 2.094 min Scan# 61
 Delta R.T. -0.003 min
 Lab File: VL043110.D
 Acq: 14 Oct 2025 13:42

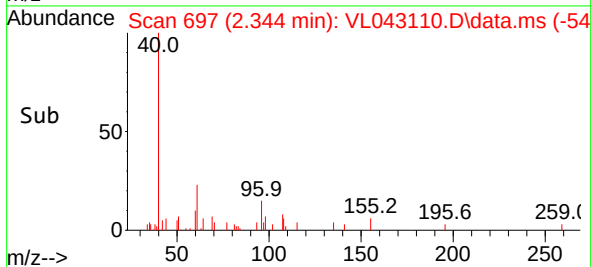
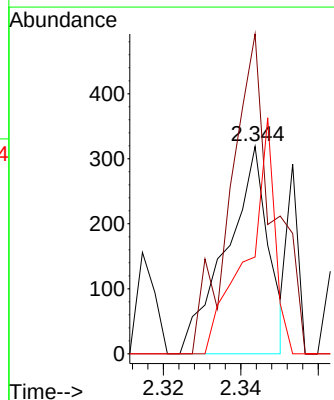
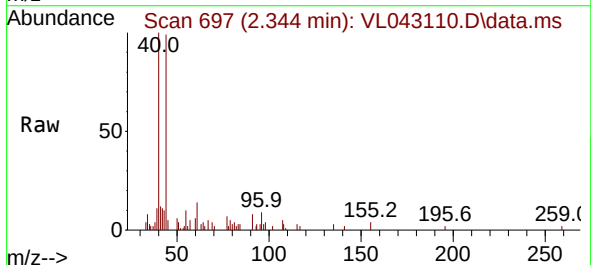
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

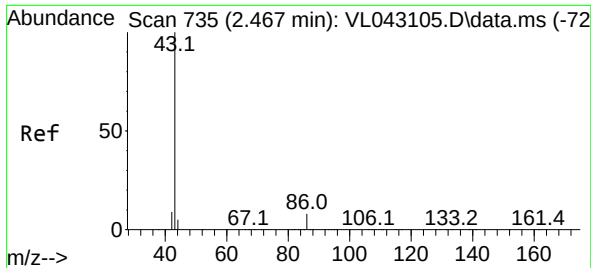
Tgt Ion: 41 Resp: 645
 Ion Ratio Lower Upper
 41 100
 76 0.0 21.5 32.3#
 39 263.7 60.8 91.2#



#22
 trans-1,2-Dichloroethene
 Concen: 0.041 ppbv
 RT: 2.344 min Scan# 697
 Delta R.T. -0.000 min
 Lab File: VL043110.D
 Acq: 14 Oct 2025 13:42

Tgt Ion: 96 Resp: 240
 Ion Ratio Lower Upper
 96 100
 61 154.2 137.0 205.6
 98 46.7 45.5 68.3

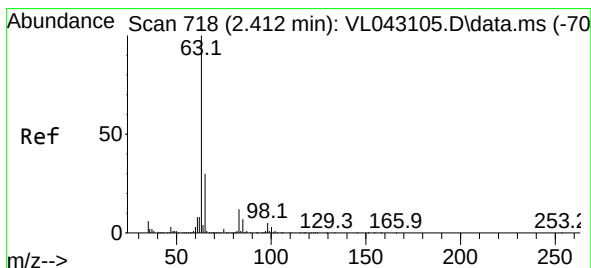
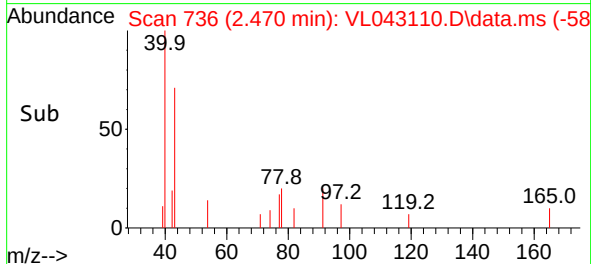
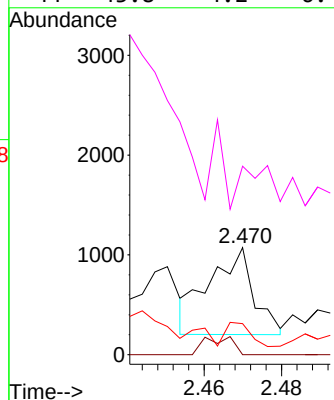
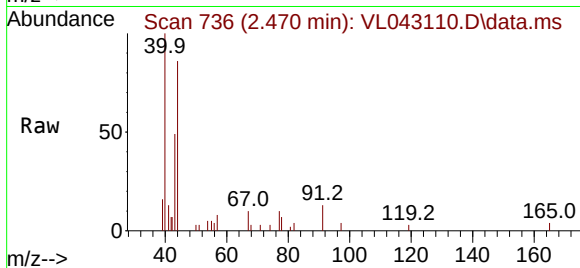




#23
 Vinyl Acetate
 Concen: 0.035 ppbv
 RT: 2.470 min Scan# 718
 Delta R.T. 0.003 min
 Lab File: VL043110.D
 Acq: 14 Oct 2025 13:42

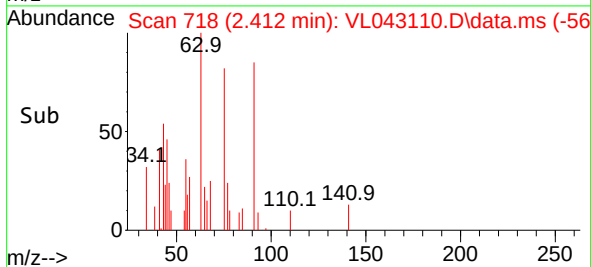
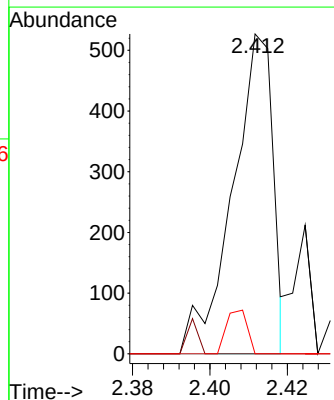
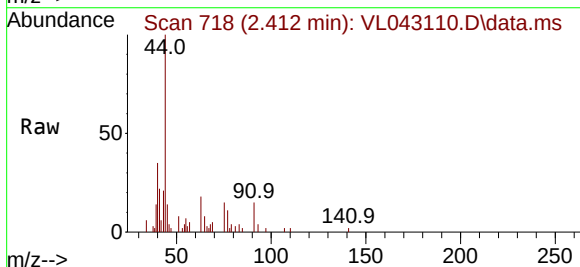
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

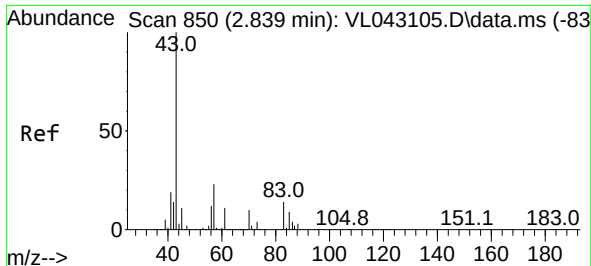
Tgt Ion: 43	Resp: 699
Ion Ratio	Lower Upper
43 100	
86 0.0	6.2 9.2#
42 27.9	7.6 11.4#
44 43.8	4.2 6.4#



#24
 1,1-Dichloroethane
 Concen: 0.034 ppbv
 RT: 2.412 min Scan# 718
 Delta R.T. -0.000 min
 Lab File: VL043110.D
 Acq: 14 Oct 2025 13:42

Tgt Ion: 63	Resp:	383	
Ion	Ratio	Lower	Upper
63	100		
98	0.0	2.6	7.8#
100	0.0	1.5	4.4#

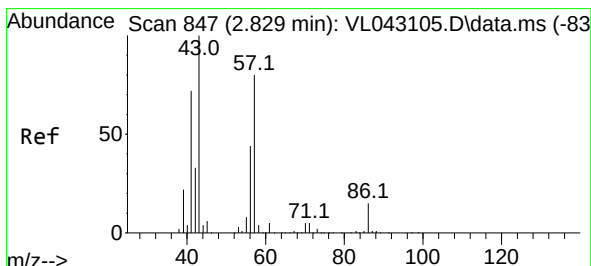
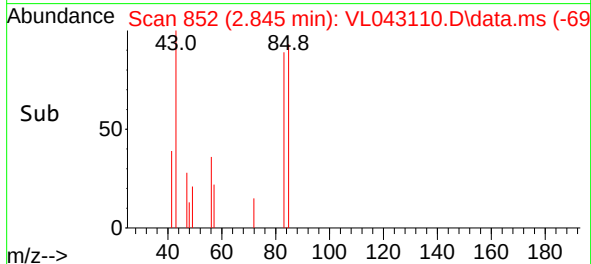
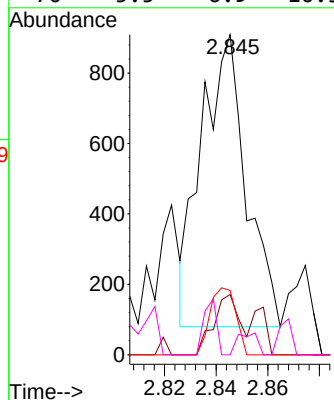
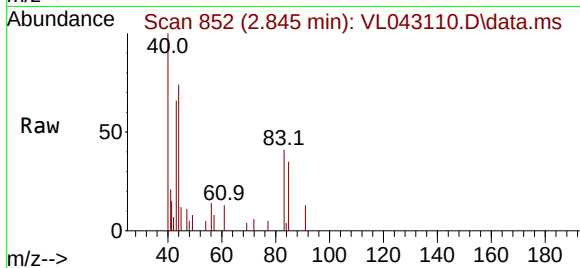




#25
Ethyl Acetate
Concen: 0.030 ppbv
RT: 2.845 min Scan# 81
Delta R.T. 0.006 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

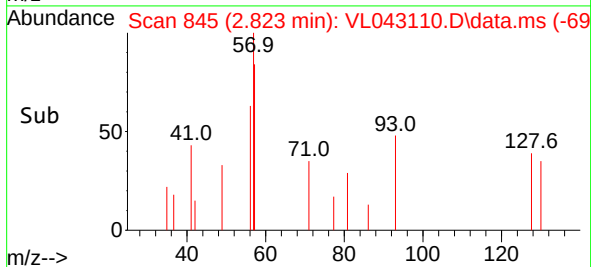
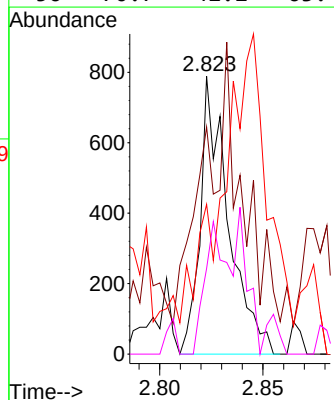
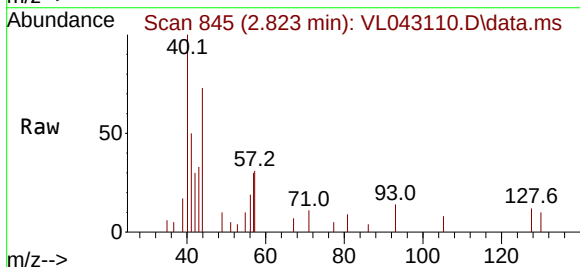
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

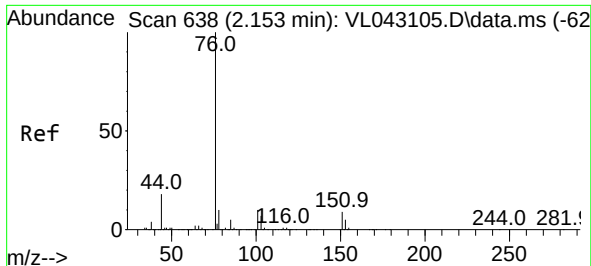
Tgt Ion: 43	Resp: 998
Ion Ratio	Lower Upper
43 100	
45 18.0	7.8 11.8#
61 13.2	7.0 10.6#
70 5.5	6.9 10.3#



#26
Hexane
Concen: 0.048 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.007 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion: 57	Resp: 740
Ion Ratio	Lower Upper
57 100	
41 136.4	71.4 107.0#
43 230.5	178.5 267.7
56 70.7	42.2 63.4#

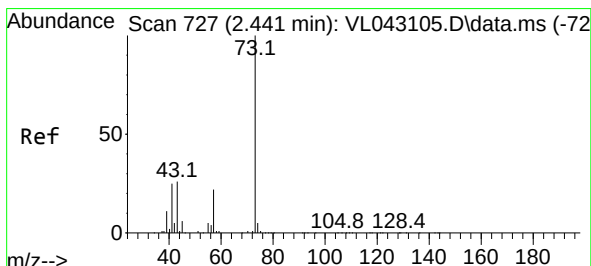
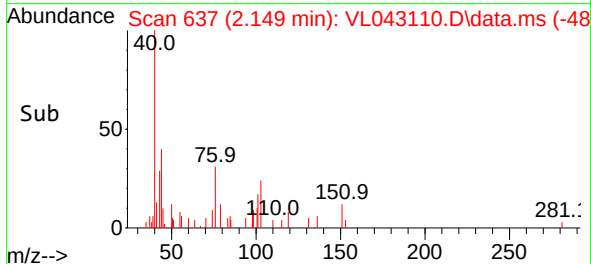
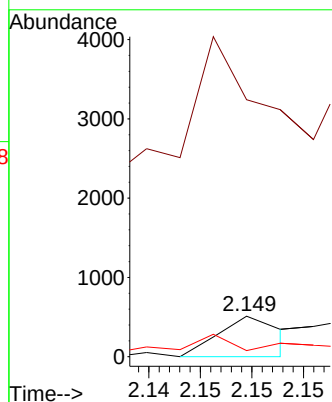
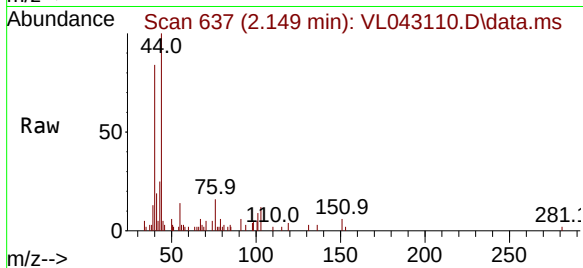




#27
Carbon Disulfide
Concen: 0.015 ppbv
RT: 2.149 min Scan# 61
Delta R.T. -0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

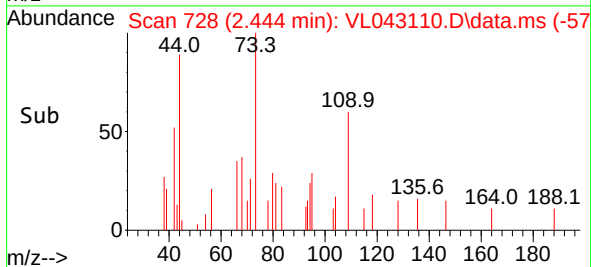
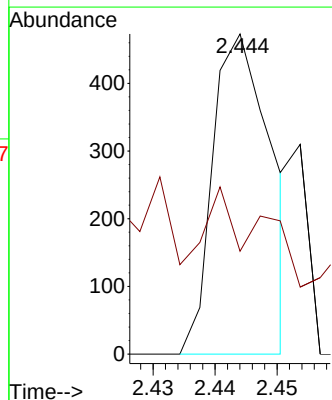
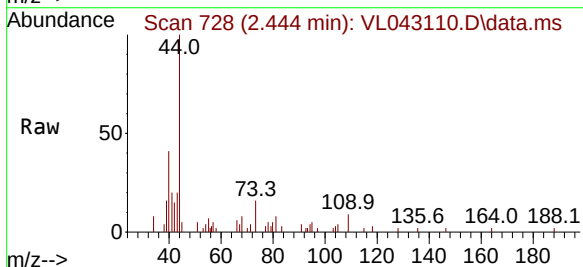
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

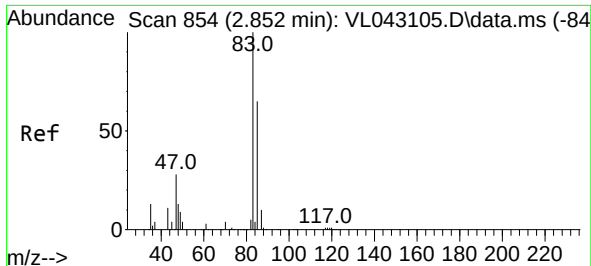
Tgt Ion: 76 Resp: 215
Ion Ratio Lower Upper
76 100
44 0.0 16.7 25.1#
78 209.8 9.3 13.9#



#28
Methyl tert-Butyl Ether
Concen: 0.044 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion: 73 Resp: 309
Ion Ratio Lower Upper
73 100
57 184.8 20.5 30.7#





#29

Chloroform

Concen: 0.038 ppbv

RT: 2.849 min Scan# 8

Delta R.T. -0.003 min

Lab File: VL043110.D

Acq: 14 Oct 2025 13:42

Instrument :

MSVOA_L

ClientSampleId :

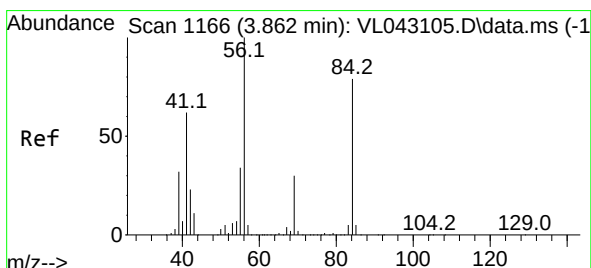
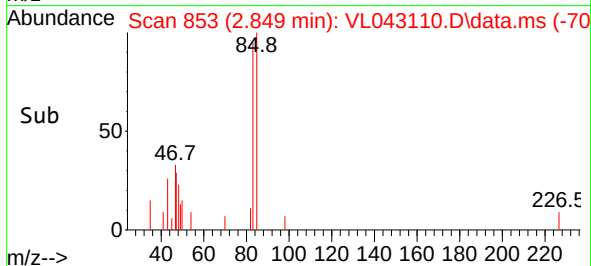
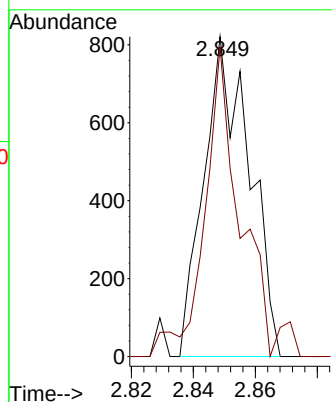
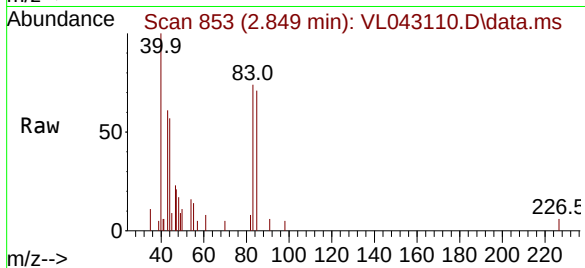
VSTDIC0.03

Tgt Ion: 83 Resp: 839

Ion Ratio Lower Upper

83 100

85 90.7 51.8 77.6#



#30

Cyclohexane

Concen: 0.021 ppbv

RT: 3.865 min Scan# 1167

Delta R.T. 0.003 min

Lab File: VL043110.D

Acq: 14 Oct 2025 13:42

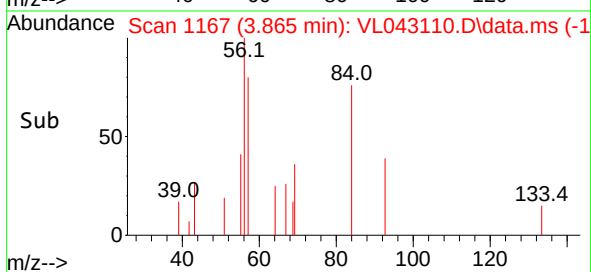
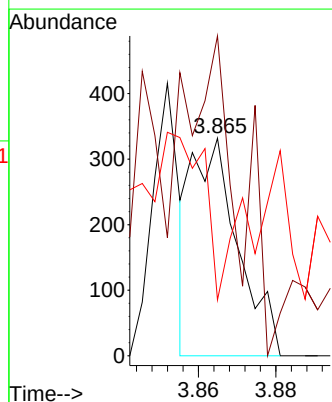
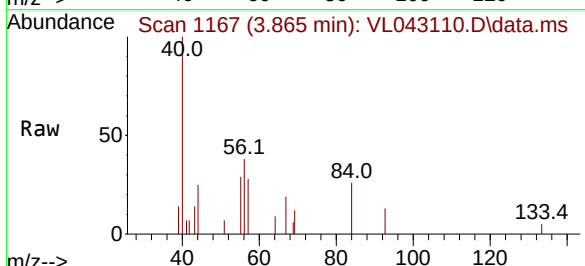
Tgt Ion: 84 Resp: 276

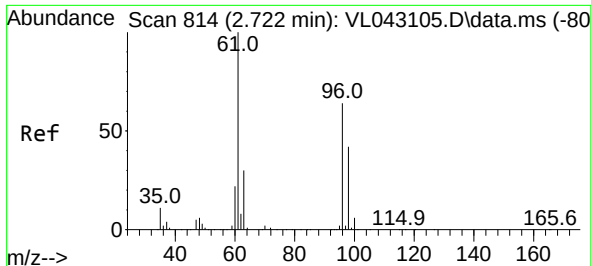
Ion Ratio Lower Upper

84 100

56 324.3 100.9 151.3#

41 0.0 63.8 95.6#

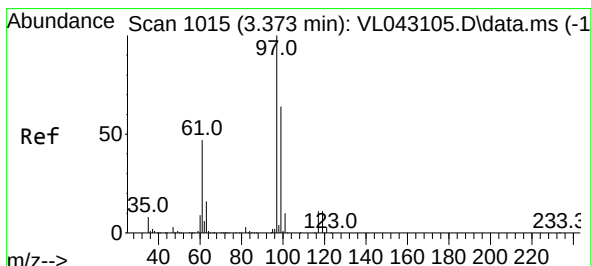
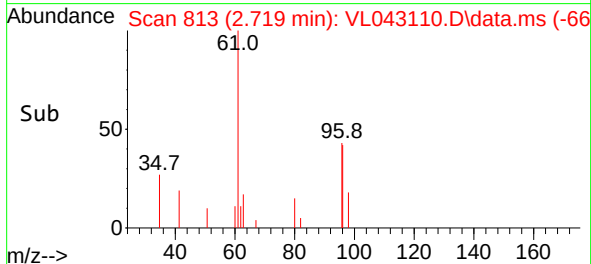
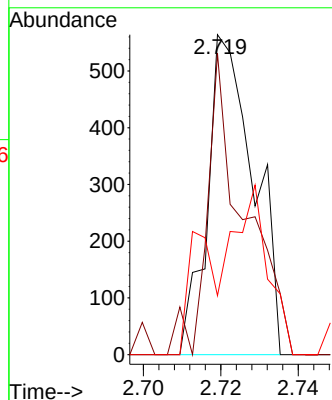
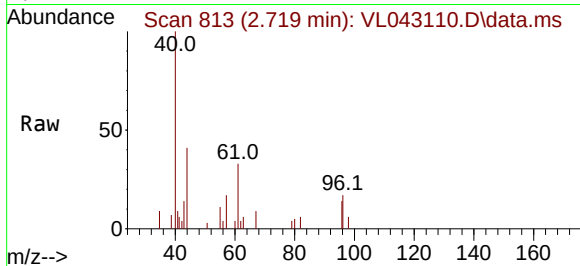




#31
 cis-1,2-Dichloroethene
 Concen: 0.032 ppbv
 RT: 2.719 min Scan# 814
 Delta R.T. -0.003 min
 Lab File: VL043110.D
 Acq: 14 Oct 2025 13:42

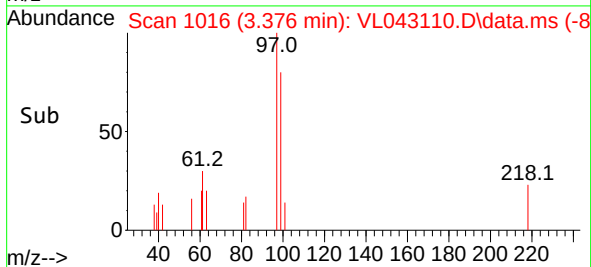
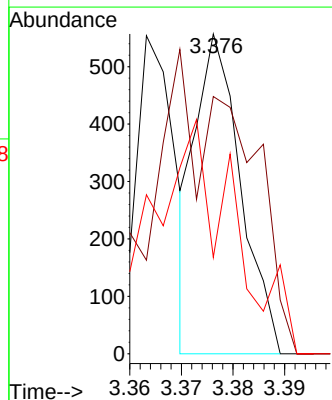
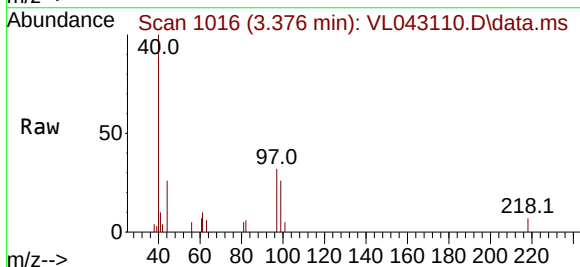
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

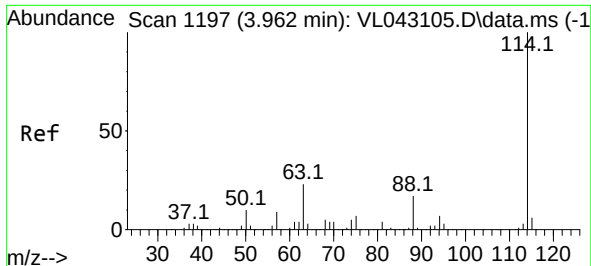
Tgt Ion: 61 Resp: 467
 Ion Ratio Lower Upper
 61 100
 96 79.3 51.0 76.6#
 98 18.4 33.5 50.3#



#32
 1,1,1-Trichloroethane
 Concen: 0.014 ppbv
 RT: 3.376 min Scan# 1016
 Delta R.T. 0.003 min
 Lab File: VL043110.D
 Acq: 14 Oct 2025 13:42

Tgt Ion: 97 Resp: 336
 Ion Ratio Lower Upper
 97 100
 99 185.7 51.3 76.9#
 61 149.7 38.4 57.6#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. -0.003 min

Lab File: VL043110.D

Acq: 14 Oct 2025 13:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

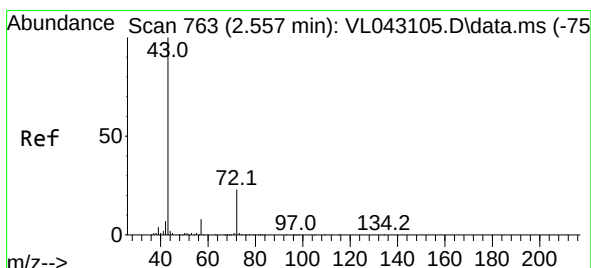
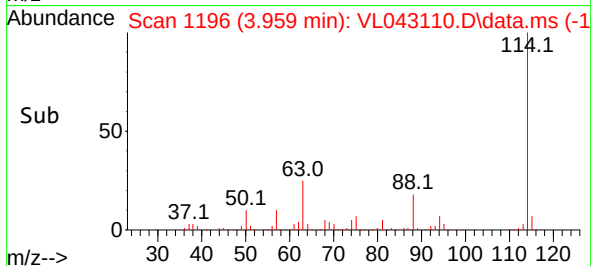
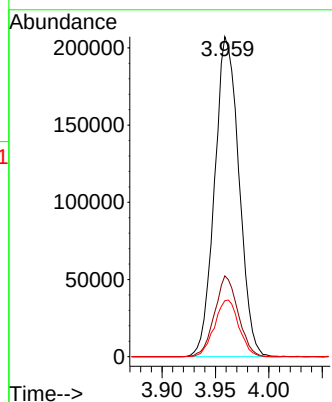
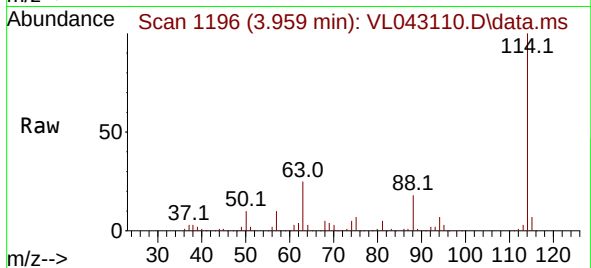
Tgt Ion:114 Resp: 328897

Ion Ratio Lower Upper

114 100

63 24.3 19.3 28.9

88 17.8 13.9 20.9



#34

2-Butanone

Concen: 0.041 ppbv

RT: 2.564 min Scan# 765

Delta R.T. 0.006 min

Lab File: VL043110.D

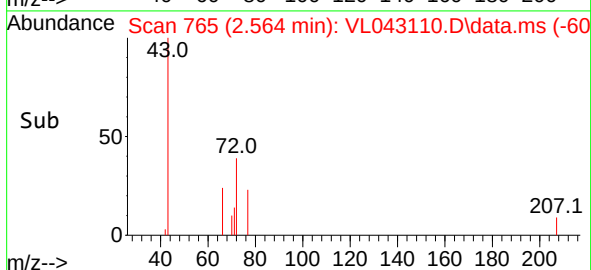
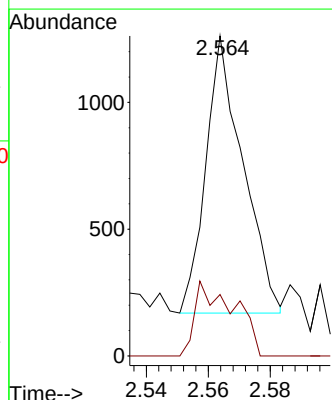
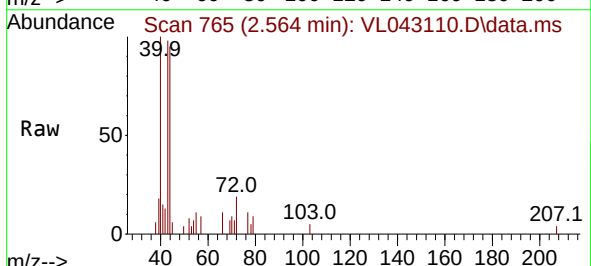
Acq: 14 Oct 2025 13:42

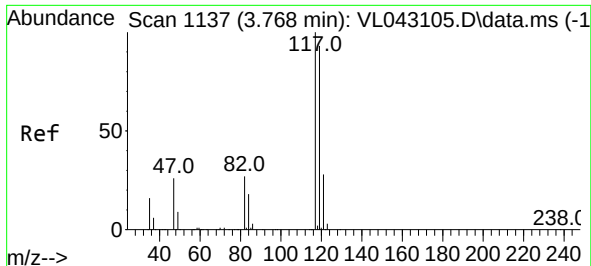
Tgt Ion: 43 Resp: 909

Ion Ratio Lower Upper

43 100

72 28.4 18.4 27.6#

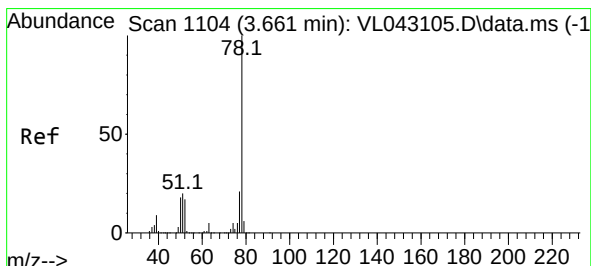
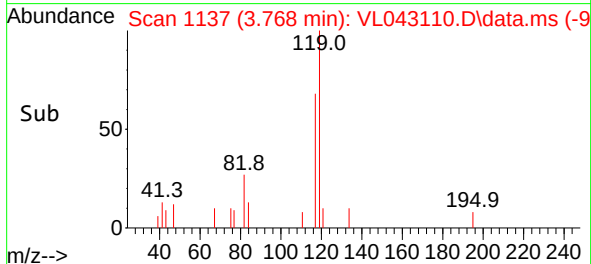
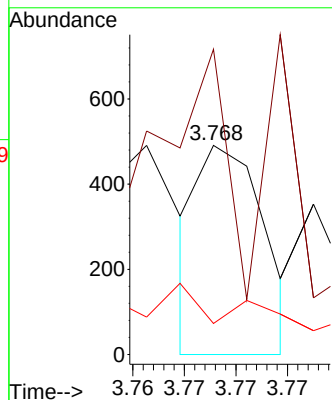
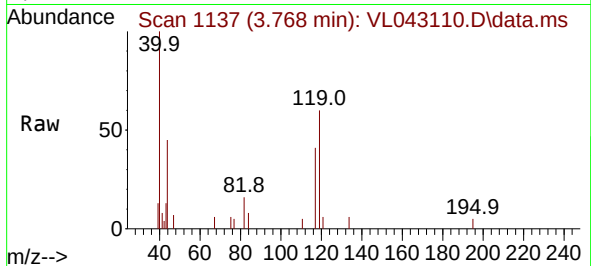




#35
Carbon Tetrachloride
Concen: 0.009 ppbv
RT: 3.768 min Scan# 1137
Delta R.T. -0.000 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

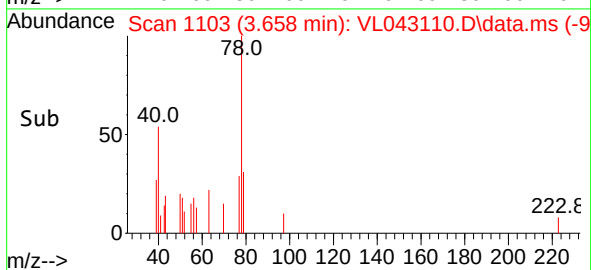
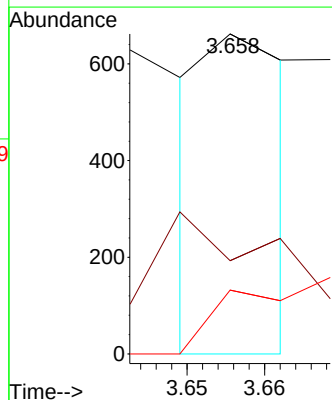
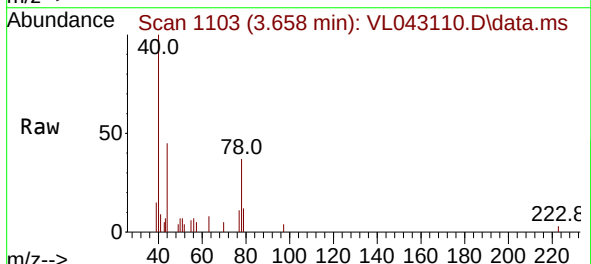
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

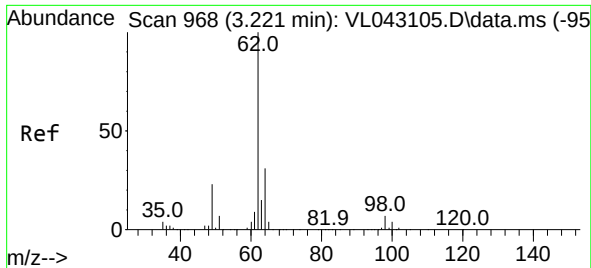
Tgt Ion:117 Resp: 216
Ion Ratio Lower Upper
117 100
119 74.1 74.1 111.1
121 0.0 22.2 33.2#



#36
Benzene
Concen: 0.008 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. -0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion: 78 Resp: 246
Ion Ratio Lower Upper
78 100
77 0.0 17.0 25.6#
50 244.4 14.6 22.0#

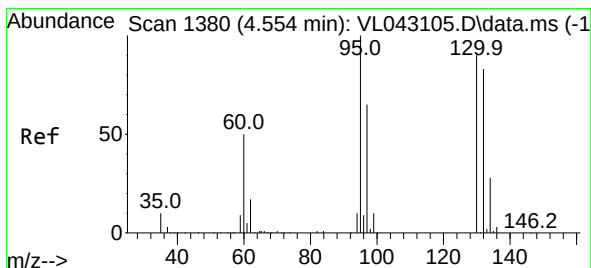
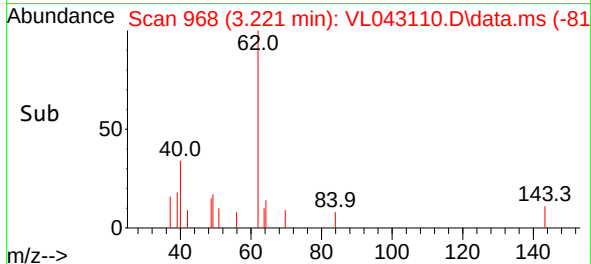
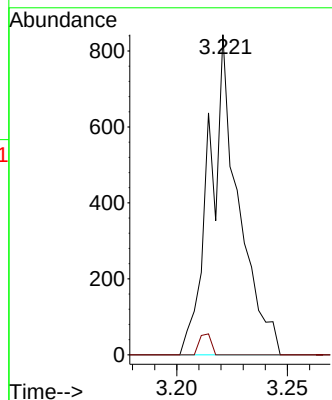
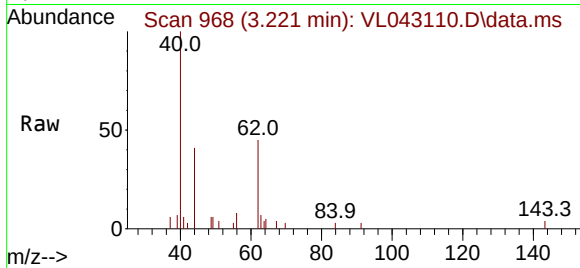




#37
1,2-Dichloroethane
Concen: 0.043 ppbv
RT: 3.221 min Scan# 968
Delta R.T. -0.000 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

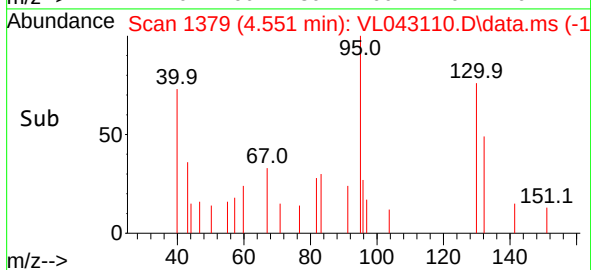
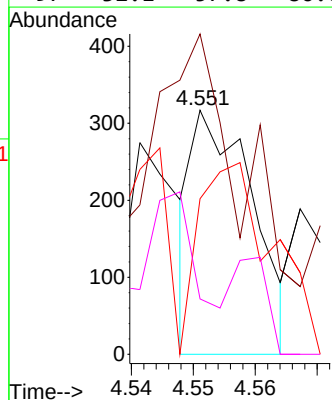
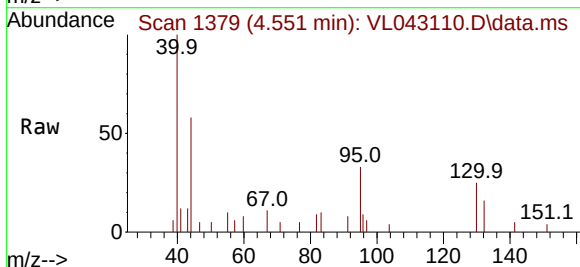
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

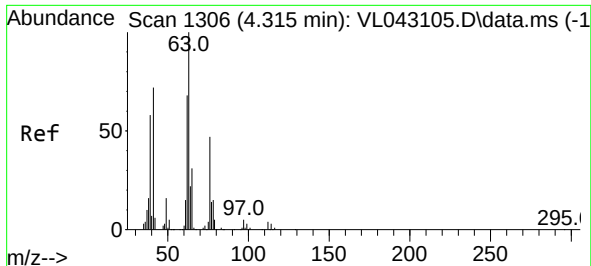
Tgt Ion: 62 Resp: 772
Ion Ratio Lower Upper
62 100
98 2.7 5.8 8.6#



#38
Trichloroethene
Concen: 0.017 ppbv
RT: 4.551 min Scan# 1379
Delta R.T. -0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion: 130 Resp: 216
Ion Ratio Lower Upper
130 100
95 136.6 88.6 133.0#
132 90.2 73.4 110.0
97 32.1 57.8 86.6#





#39

1,2-Dichloropropane

Concen: 7.052 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. -0.356 min

Lab File: VL043110.D

Acq: 14 Oct 2025 13:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

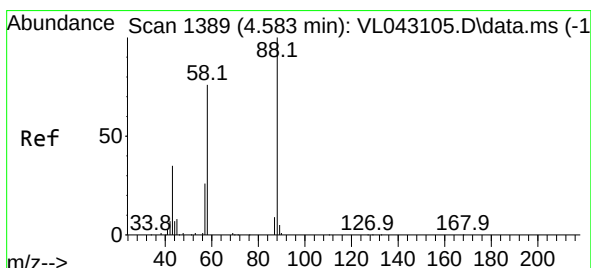
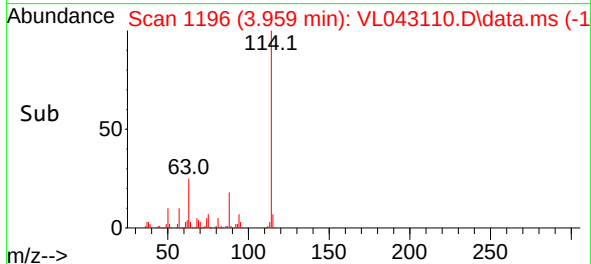
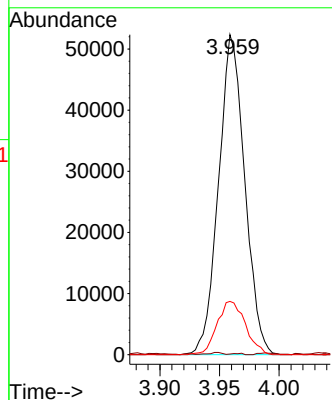
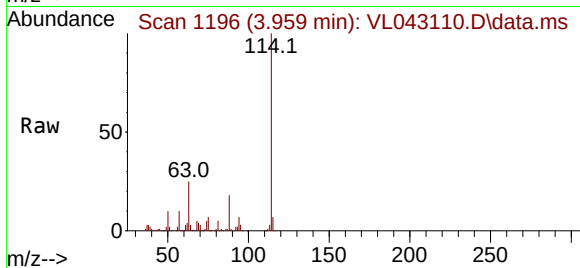
Tgt Ion: 63 Resp: 79938

Ion Ratio Lower Upper

63 100

41 0.2 58.0 87.0#

62 16.7 54.7 82.1#



#40

1,4-Dioxane

Concen: 0.007 ppbv

RT: 4.609 min Scan# 1397

Delta R.T. 0.026 min

Lab File: VL043110.D

Acq: 14 Oct 2025 13:42

Tgt Ion: 88 Resp: 33

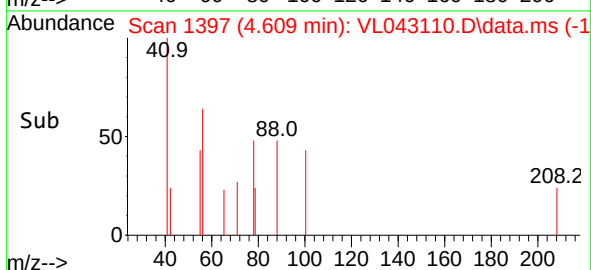
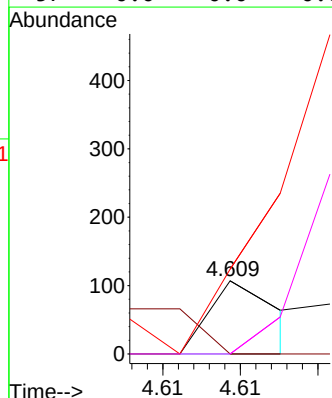
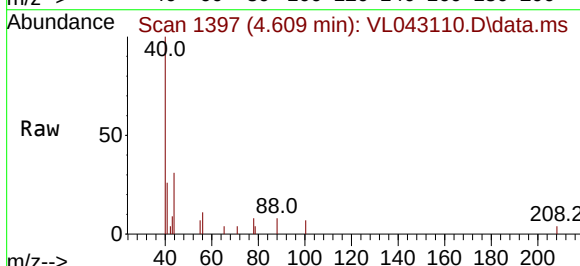
Ion Ratio Lower Upper

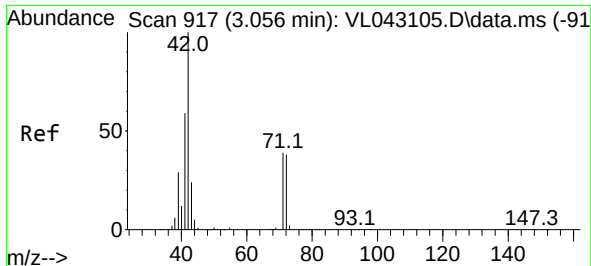
88 100

58 0.0 61.1 91.7#

43 303.0 24.0 36.0#

57 0.0 0.0 0.0

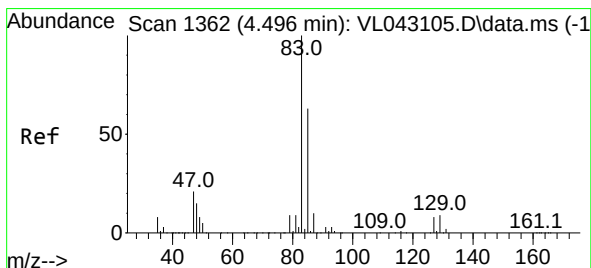
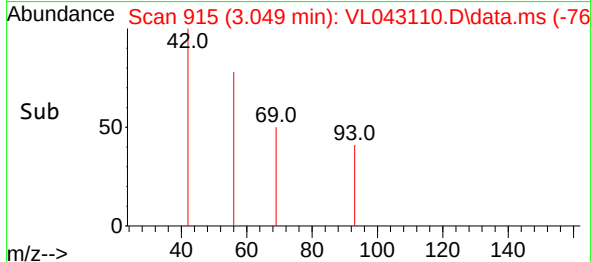
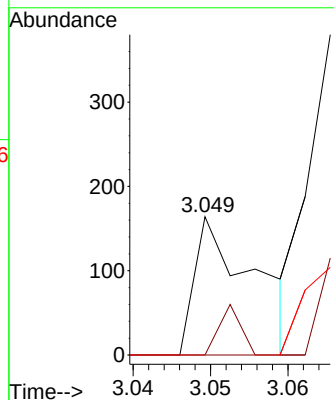
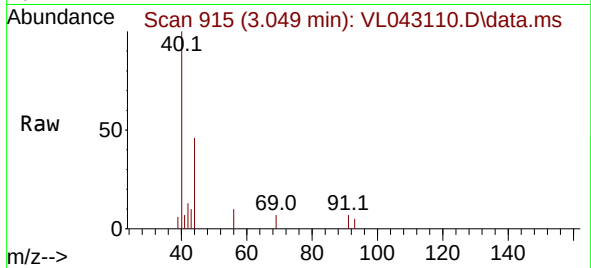




#41
Tetrahydrofuran
Concen: 0.007 ppbv
RT: 3.049 min Scan# 917
Delta R.T. -0.007 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

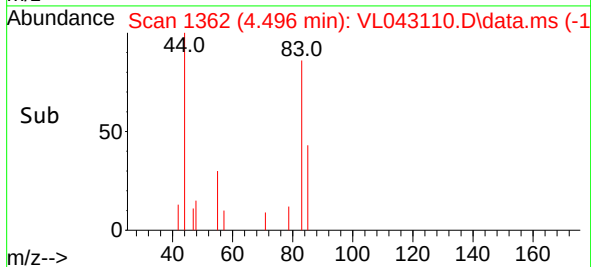
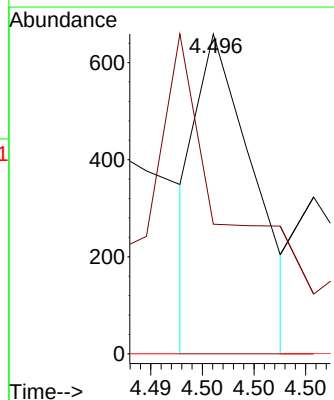
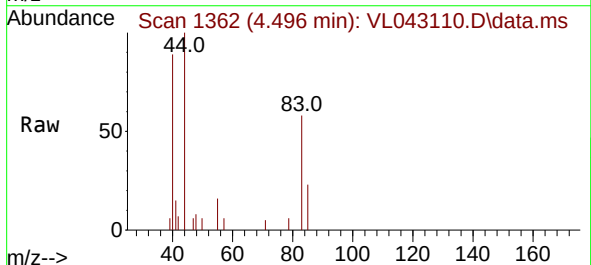
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

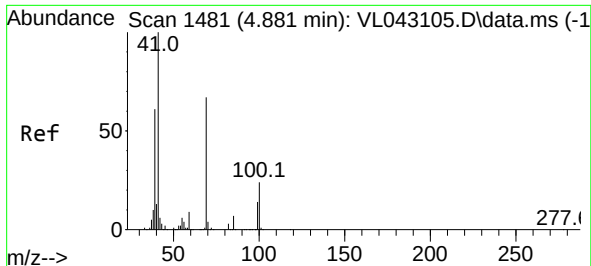
Tgt Ion: 42 Resp: 87
Ion Ratio Lower Upper
42 100
72 0.0 31.3 46.9#
71 0.0 30.4 45.6#



#42
Bromodichloromethane
Concen: 0.010 ppbv
RT: 4.496 min Scan# 1362
Delta R.T. -0.000 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion: 83 Resp: 250
Ion Ratio Lower Upper
83 100
85 0.9 50.6 75.8#
127 0.0 6.3 9.5#

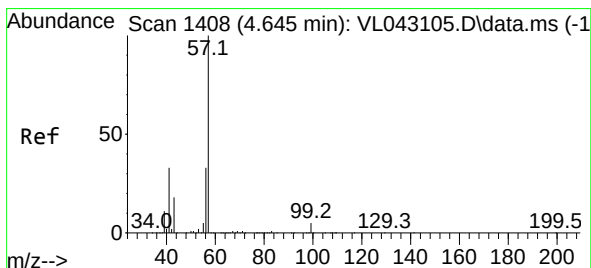
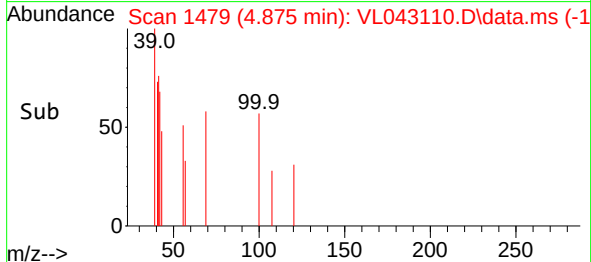
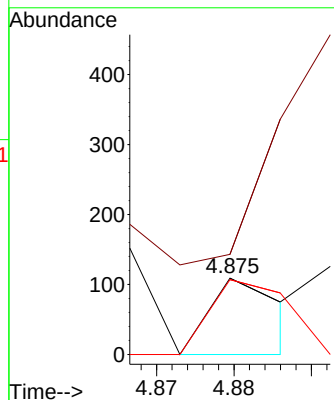
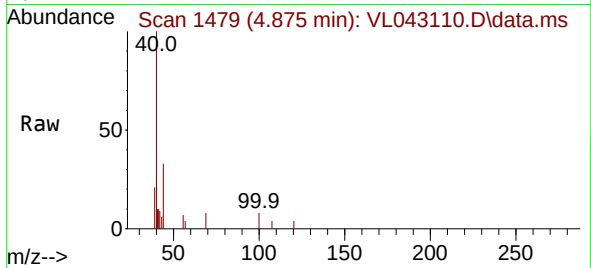




#43
Methyl Methacrylate
Concen: 0.002 ppbv
RT: 4.875 min Scan# 1481
Delta R.T. -0.007 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

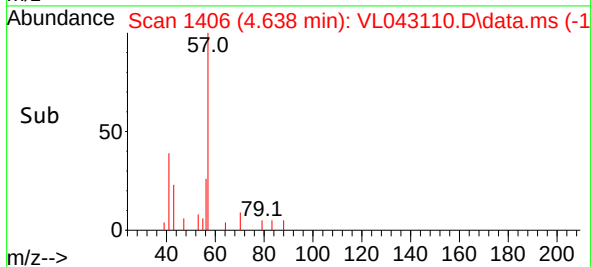
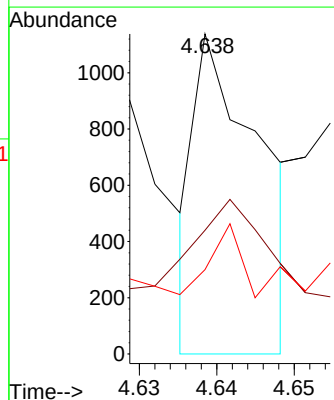
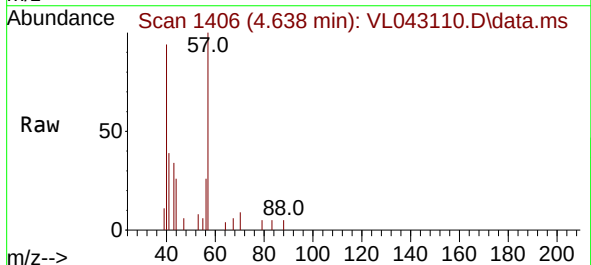
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.03

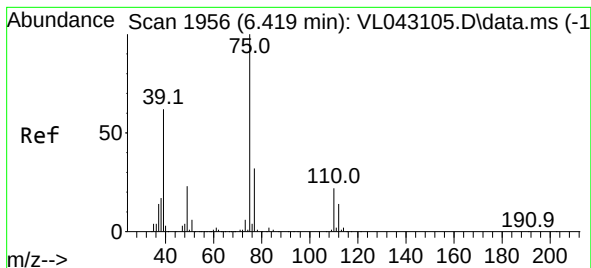
Tgt Ion: 69 Resp: 36
Ion Ratio Lower Upper
69 100
41 0.0 120.5 180.7#
100 0.0 29.0 43.4#



#44
2,2,4-Trimethylpentane
Concen: 0.013 ppbv
RT: 4.638 min Scan# 1406
Delta R.T. -0.007 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion: 57 Resp: 669
Ion Ratio Lower Upper
57 100
41 234.7 26.3 39.5#
56 122.3 25.9 38.9#





#45

t-1,3-Dichloropropene

Concen: 0.010 ppbv

RT: 6.415 min Scan# 1956

Delta R.T. -0.003 min

Lab File: VL043110.D

Acq: 14 Oct 2025 13:42

Instrument :

MSVOA_L

ClientSampleId :

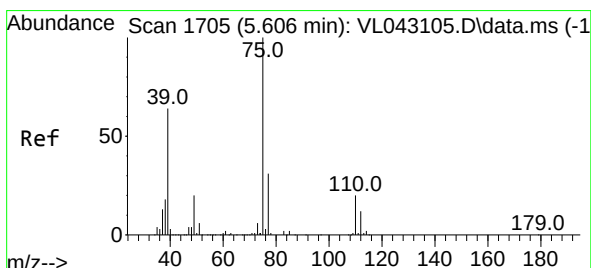
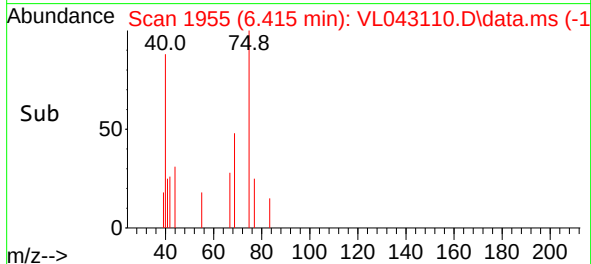
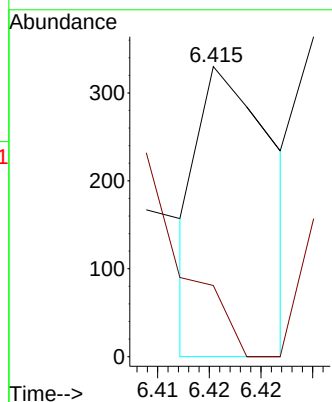
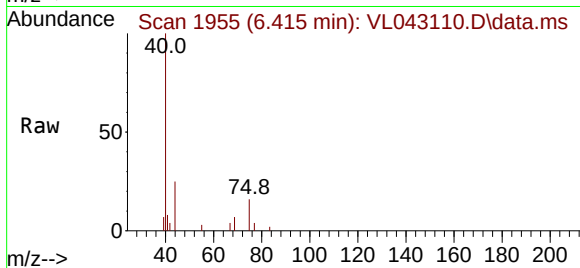
VSTDICC0.03

Tgt Ion: 75 Resp: 165

Ion Ratio Lower Upper

75 100

77 24.5 25.4 38.2#



#46

cis-1,3-Dichloropropene

Concen: 0.014 ppbv

RT: 5.606 min Scan# 1705

Delta R.T. -0.000 min

Lab File: VL043110.D

Acq: 14 Oct 2025 13:42

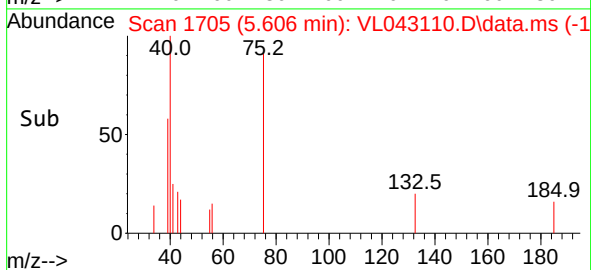
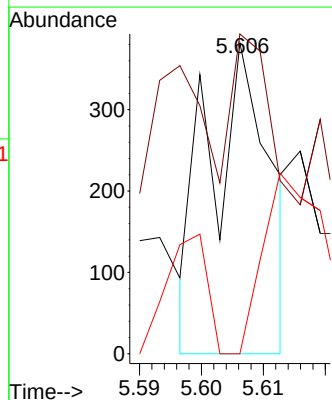
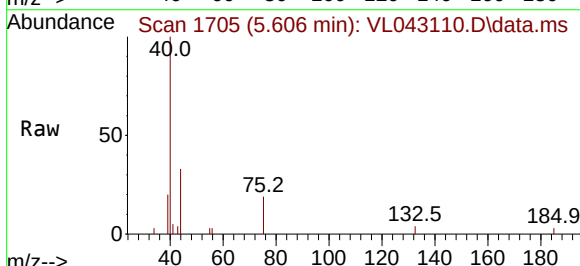
Tgt Ion: 75 Resp: 261

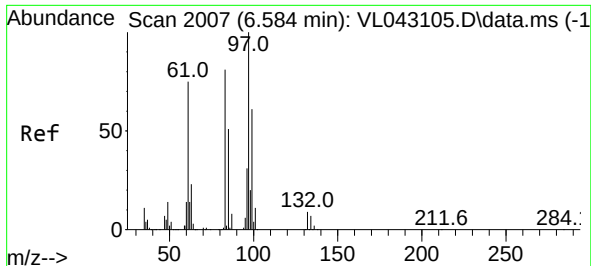
Ion Ratio Lower Upper

75 100

39 62.3 51.0 76.6

77 0.0 25.0 37.4#

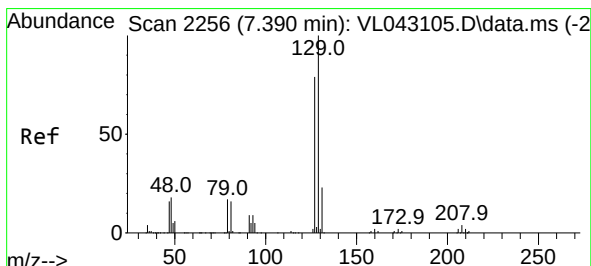
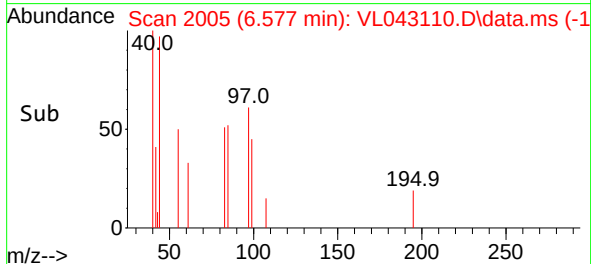
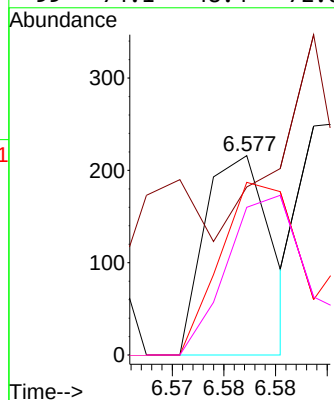
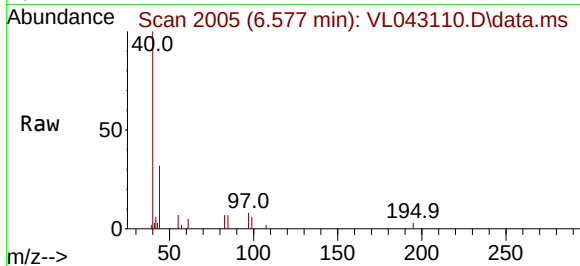




#47
1,1,2-Trichloroethane
Concen: 0.008 ppbv
RT: 6.577 min Scan# 2005
Delta R.T. -0.007 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

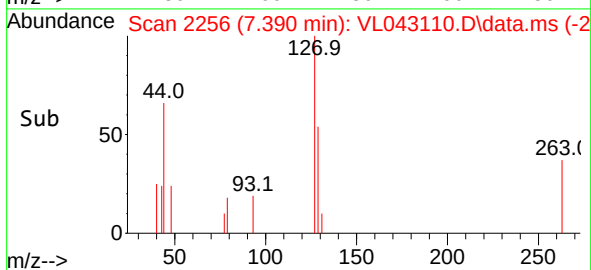
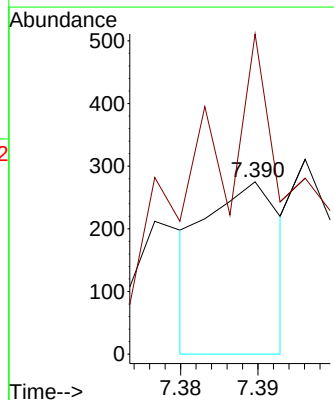
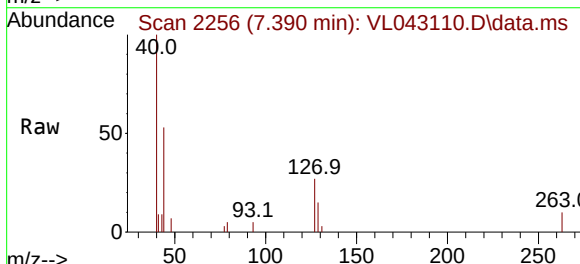
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

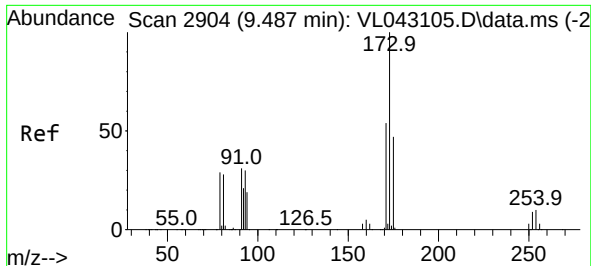
Tgt Ion:	97	Resp:	98
Ion	Ratio	Lower	Upper
97	100		
83	0.0	64.6	96.8#
85	86.6	40.6	60.8#
99	74.1	48.4	72.6#



#48
Dibromochloromethane
Concen: 0.009 ppbv
RT: 7.390 min Scan# 2256
Delta R.T. -0.000 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion:	129	Resp:	186
Ion	Ratio	Lower	Upper
129	100		
127	311.3	39.3	117.9#





#49

Bromoform

Concen: 0.019 ppbv

RT: 9.480 min Scan# 2904

Delta R.T. -0.007 min

Lab File: VL043110.D

Acq: 14 Oct 2025 13:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.03

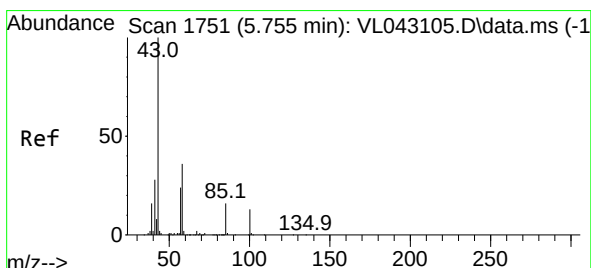
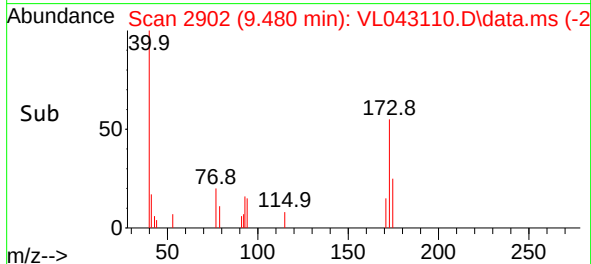
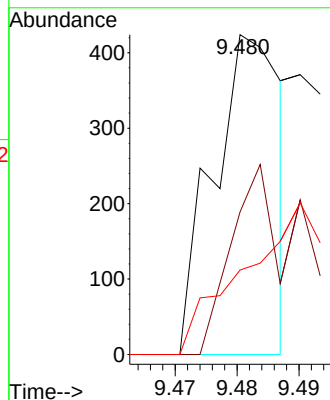
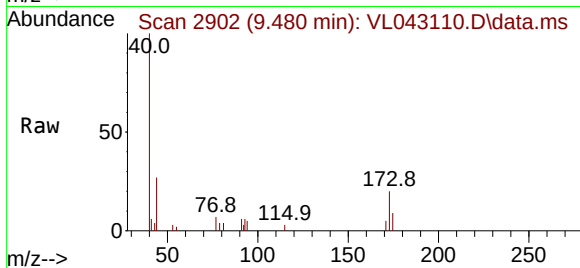
Tgt Ion:173 Resp: 323

Ion Ratio Lower Upper

173 100

175 56.3 38.8 58.2

171 0.0 41.7 62.5#



#50

4-Methyl-2-Pentanone

Concen: 0.009 ppbv

RT: 5.762 min Scan# 1753

Delta R.T. 0.006 min

Lab File: VL043110.D

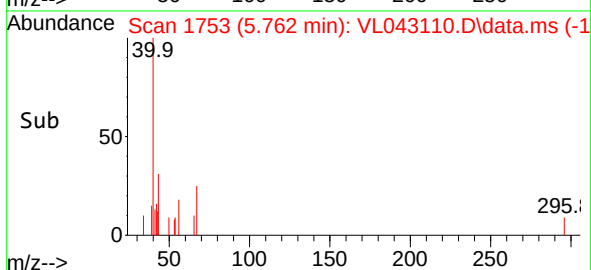
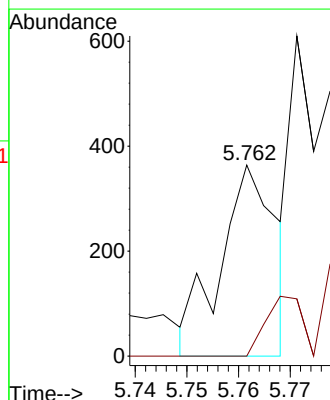
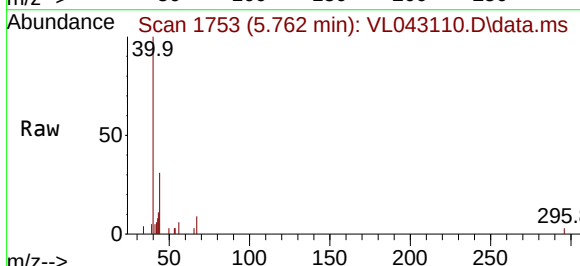
Acq: 14 Oct 2025 13:42

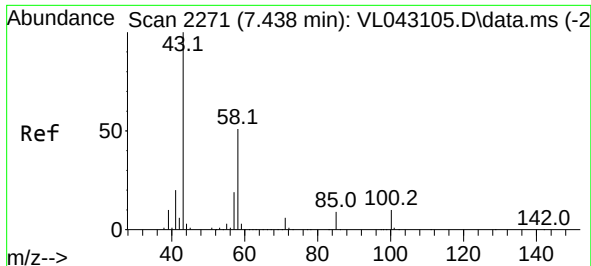
Tgt Ion: 43 Resp: 271

Ion Ratio Lower Upper

43 100

58 0.0 29.1 43.7#

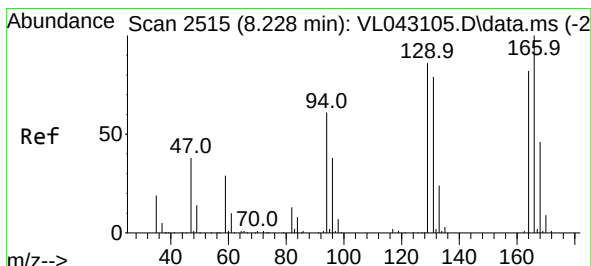
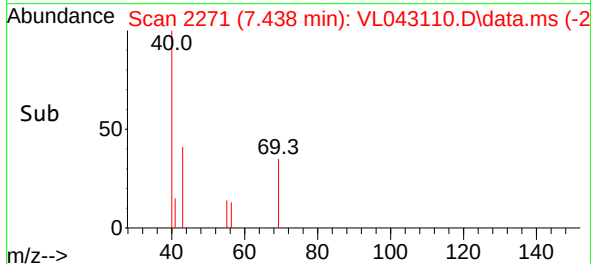
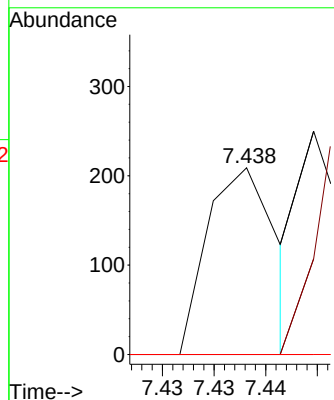
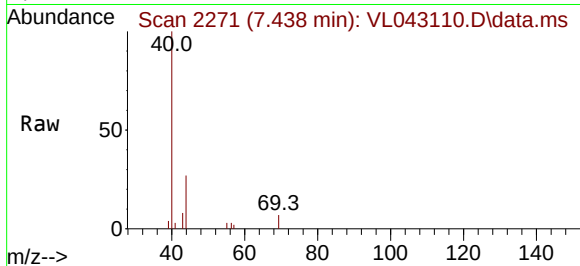




#51
2-Hexanone
Concen: 0.004 ppbv
RT: 7.438 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

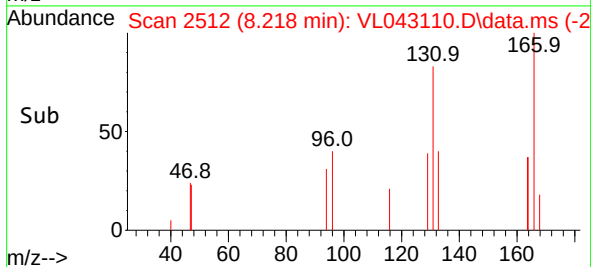
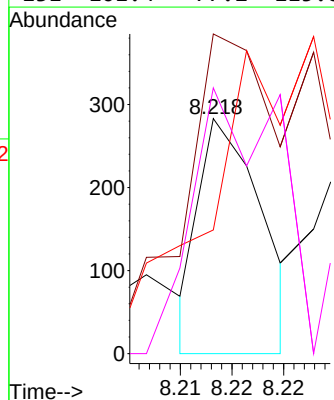
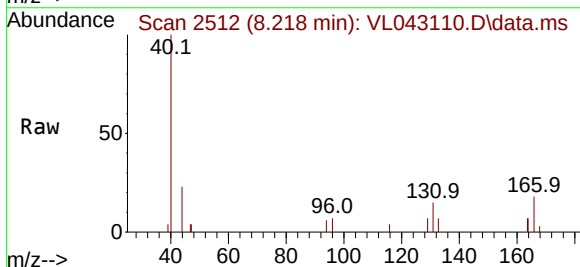
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

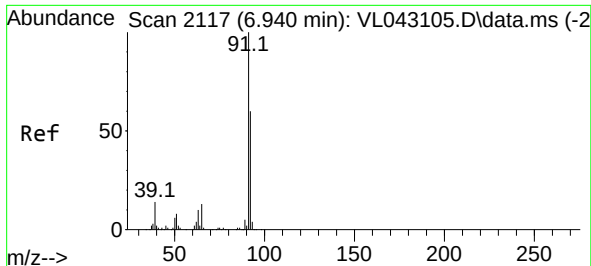
Tgt Ion: 43	Resp:	98
Ion Ratio	Lower	Upper
43	100	
58	0.0	40.4 60.6#
98	0.0	0.1 0.1#



#52
Tetrachloroethene
Concen: 0.011 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. -0.010 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion: 164	Resp:	120
Ion Ratio	Lower	Upper
164	100	
166	125.2	97.6 146.4
129	8.9	84.5 126.7#
131	101.4	77.2 115.8

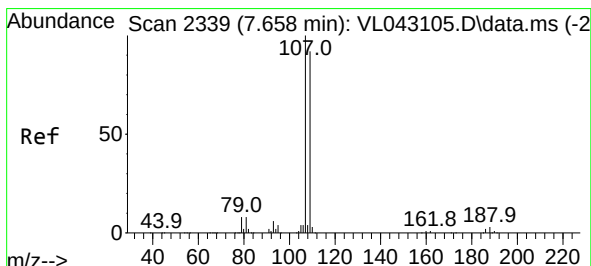
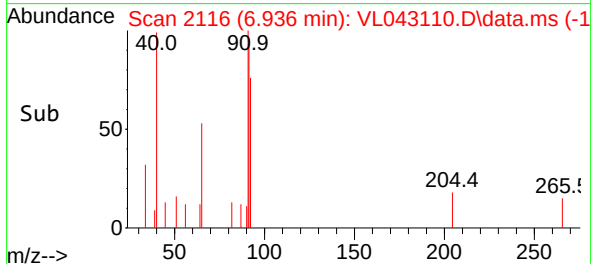
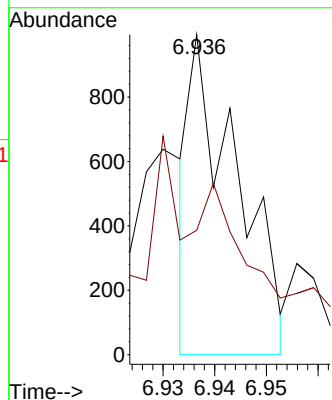
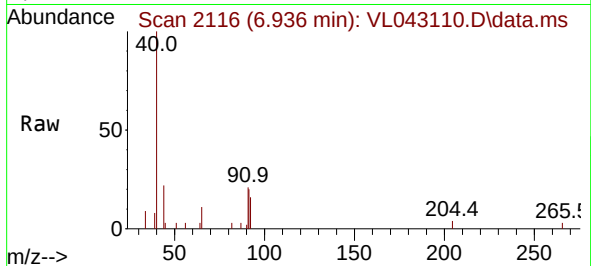




#53
Toluene
Concen: 0.017 ppbv
RT: 6.936 min Scan# 2116
Delta R.T. -0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

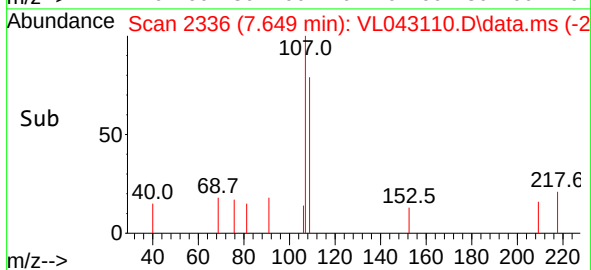
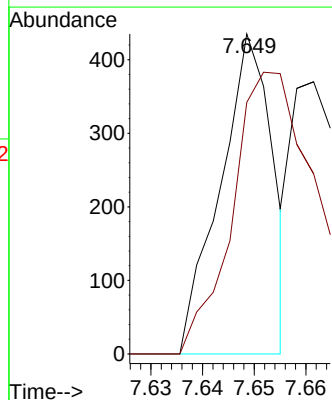
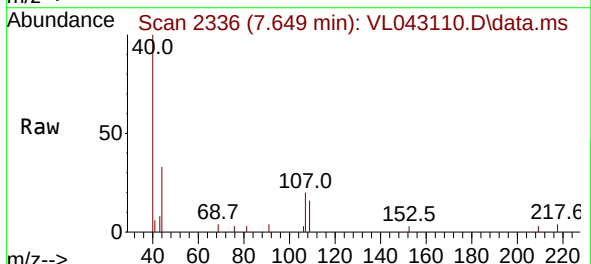
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

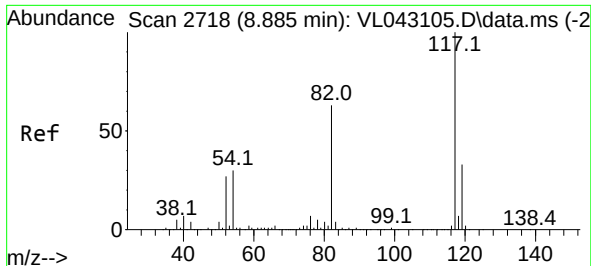
Tgt Ion: 91 Resp: 632
Ion Ratio Lower Upper
91 100
92 0.0 48.8 73.2#



#54
1,2-Dibromoethane
Concen: 0.016 ppbv
RT: 7.649 min Scan# 2336
Delta R.T. -0.010 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion: 107 Resp: 308
Ion Ratio Lower Upper
107 100
109 78.6 73.4 110.2

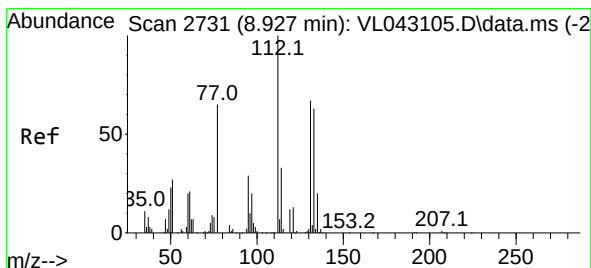
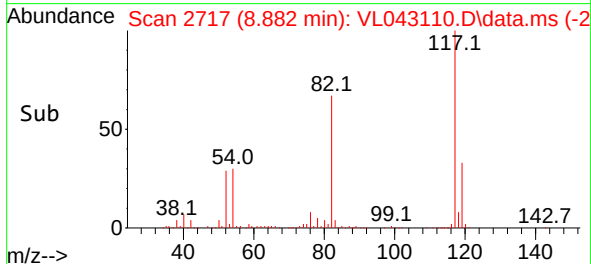
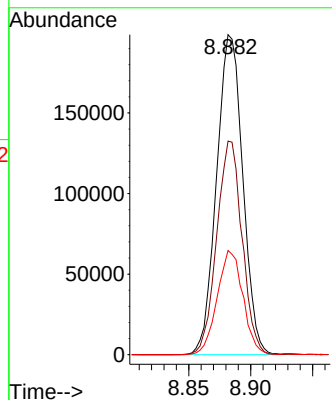
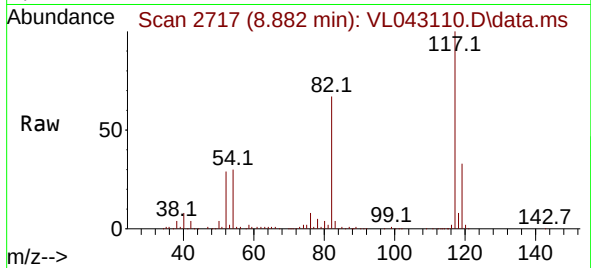




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2718
Delta R.T. -0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

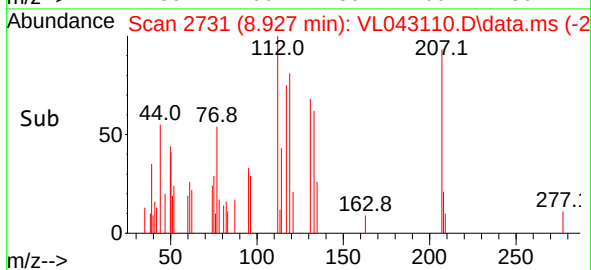
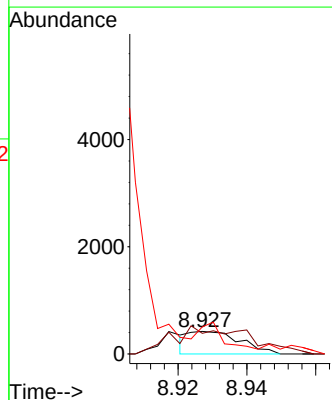
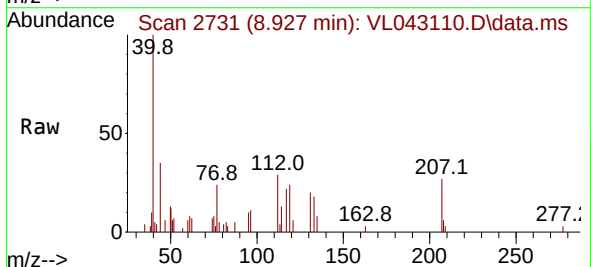
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

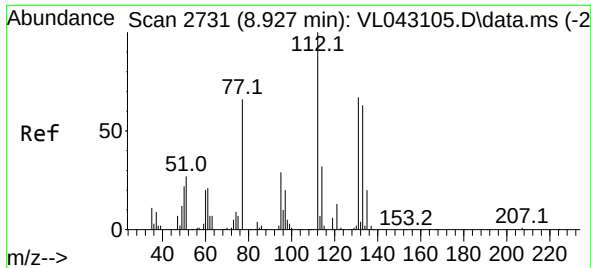
Tgt Ion:117 Resp: 292884
Ion Ratio Lower Upper
117 100
82 64.7 53.8 80.8
119 32.1 25.4 38.0



#56
1,1,1,2-Tetrachloroethane
Concen: 0.024 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. -0.000 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion:131 Resp: 441
Ion Ratio Lower Upper
131 100
133 181.0 75.7 113.5#
119 0.0 50.6 76.0#





#57

Chlorobenzene

Concen: 0.028 ppbv

RT: 8.921 min Scan# 21

Delta R.T. -0.007 min

Lab File: VL043110.D

Acq: 14 Oct 2025 13:42

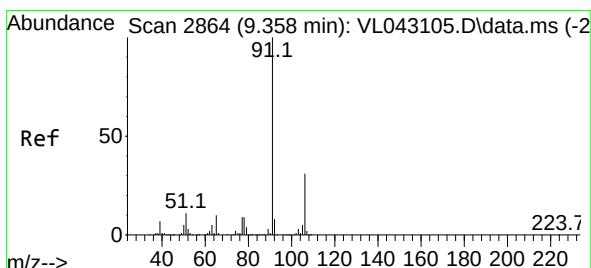
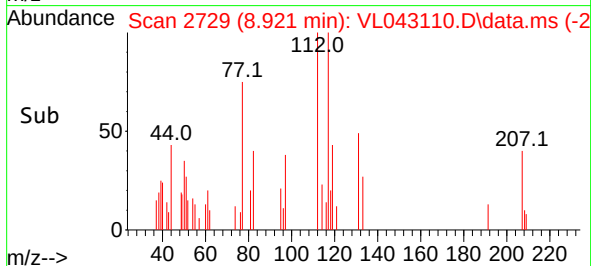
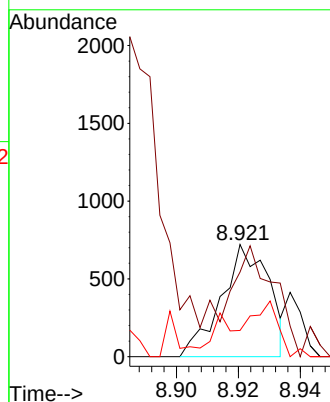
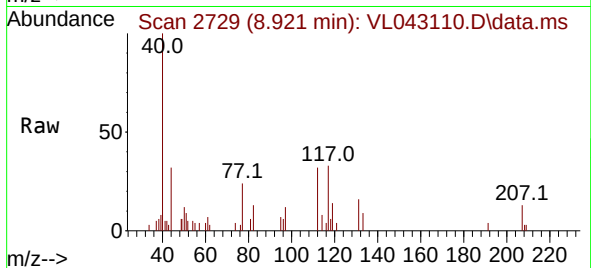
Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.03

Tgt Ion:112	Resp:	764
Ion	Ratio	Lower Upper
112	100	
77	33.7	53.3 79.9#
114	16.0	29.3 35.8#



#58

Ethyl Benzene

Concen: 0.024 ppbv

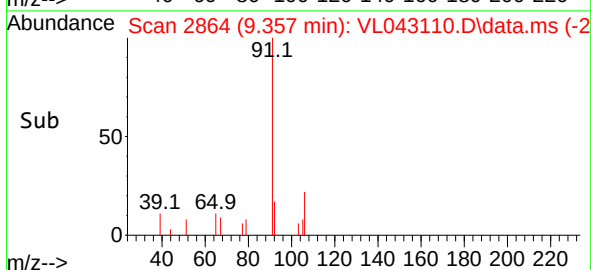
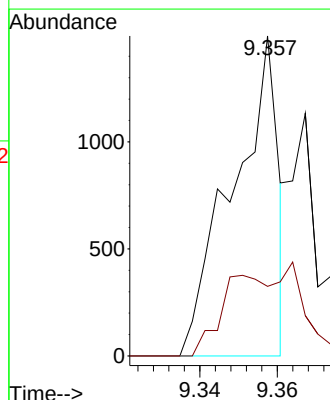
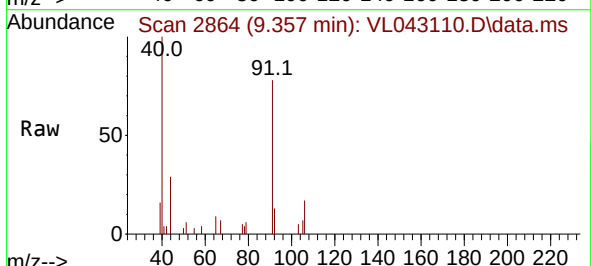
RT: 9.357 min Scan# 2864

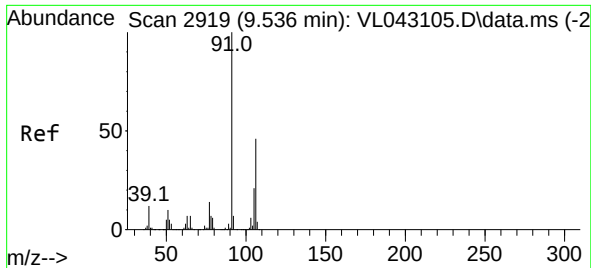
Delta R.T. -0.000 min

Lab File: VL043110.D

Acq: 14 Oct 2025 13:42

Tgt Ion: 91	Resp:	1218
Ion	Ratio	Lower Upper
91	100	
106	21.7	24.8 37.2#

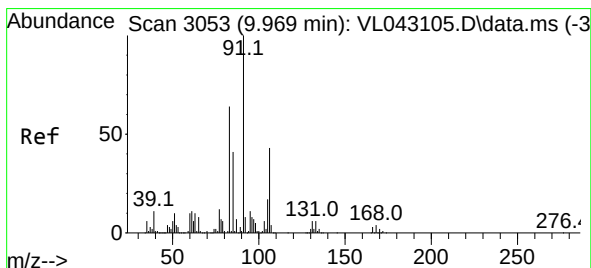
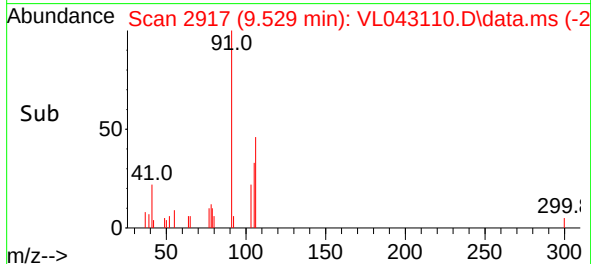
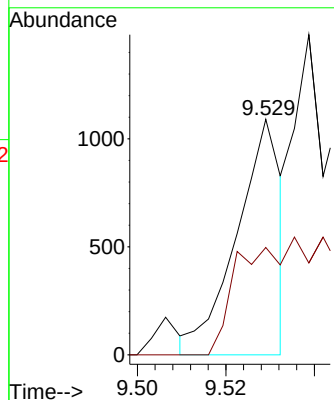
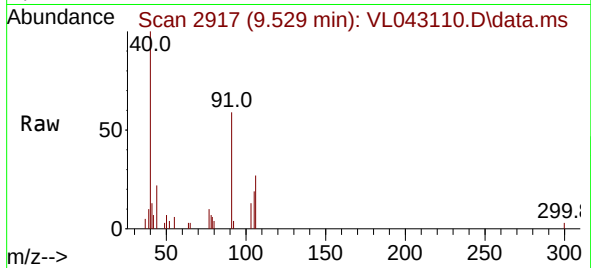




#59
m/p-Xylene
Concen: 0.019 ppbv
RT: 9.529 min Scan# 2917
Delta R.T. -0.007 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

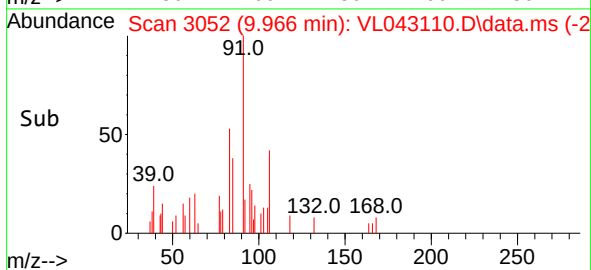
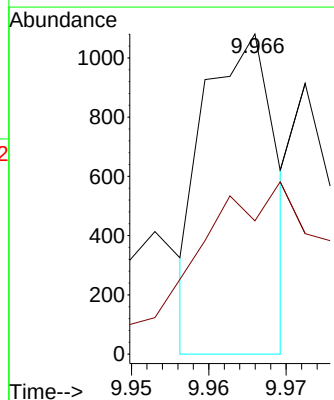
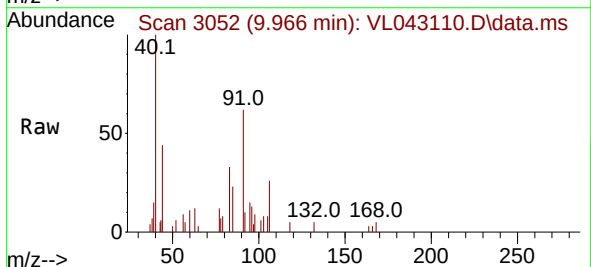
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

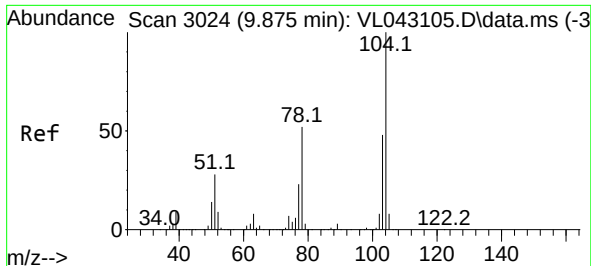
Tgt Ion: 91 Resp: 759
Ion Ratio Lower Upper
91 100
106 0.0 38.0 57.0#



#60
o-Xylene
Concen: 0.018 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. -0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion: 91 Resp: 693
Ion Ratio Lower Upper
91 100
106 0.0 21.9 65.8#

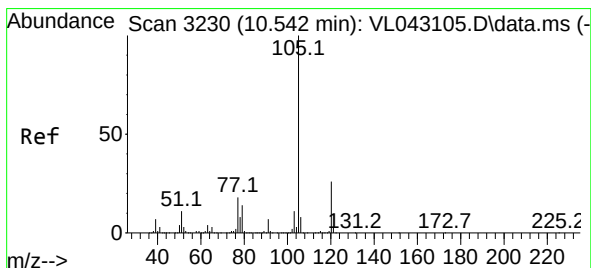
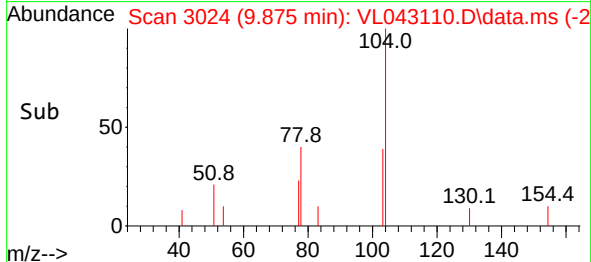
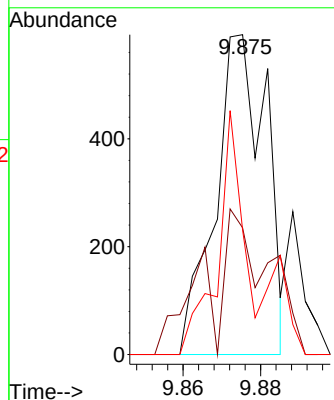
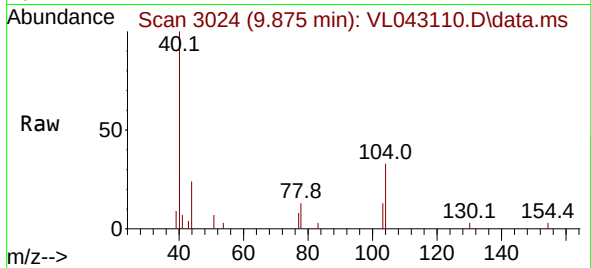




#61
Styrene
Concen: 0.030 ppbv
RT: 9.875 min Scan# 3024
Delta R.T. -0.000 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

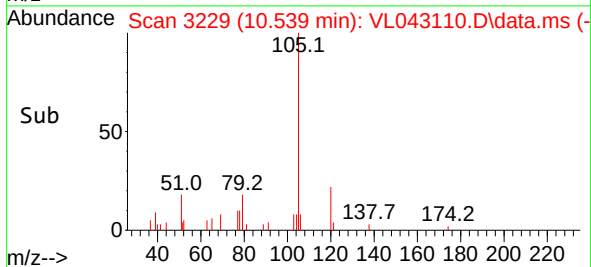
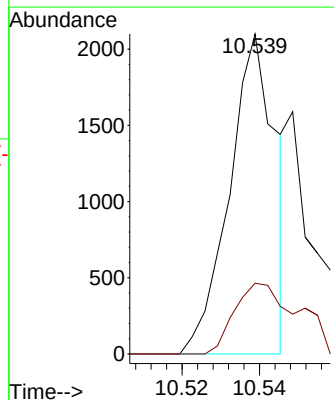
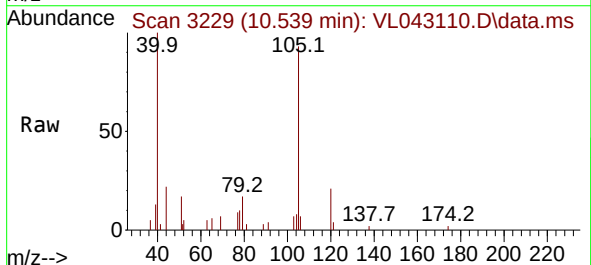
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

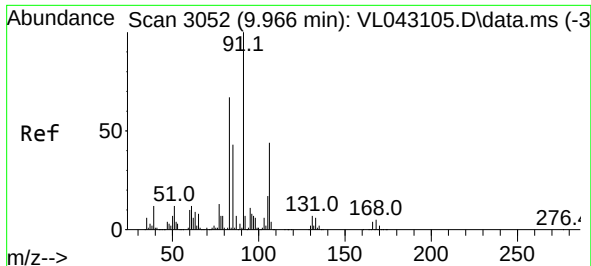
Tgt Ion:104 Resp: 538
Ion Ratio Lower Upper
104 100
78 61.7 40.2 60.2#
103 50.9 36.9 55.3



#62
Isopropylbenzene
Concen: 0.024 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. -0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion:105 Resp: 1735
Ion Ratio Lower Upper
105 100
120 30.3 20.2 30.4





#63

1,1,2-Tetrachloroethane

Concen: 0.014 ppbv

RT: 9.960 min Scan# 3052

Delta R.T. -0.007 min

Lab File: VL043110.D

Acq: 14 Oct 2025 13:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.03

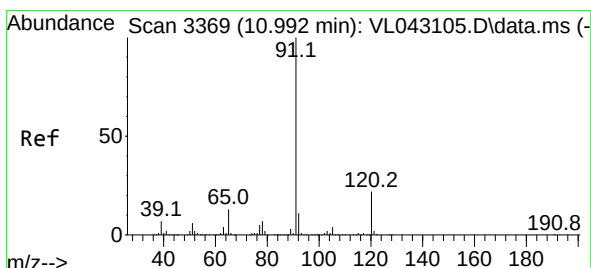
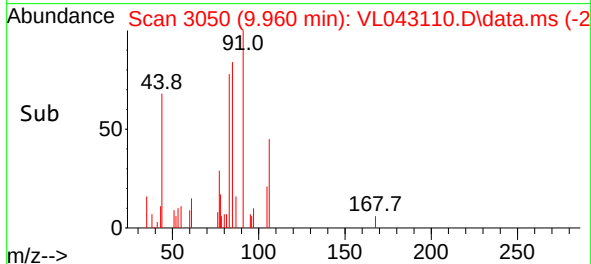
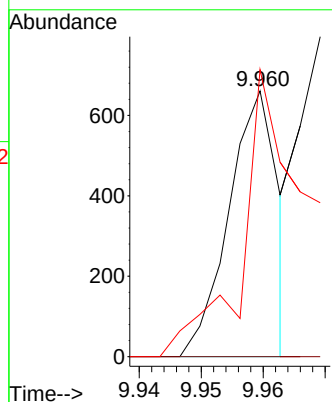
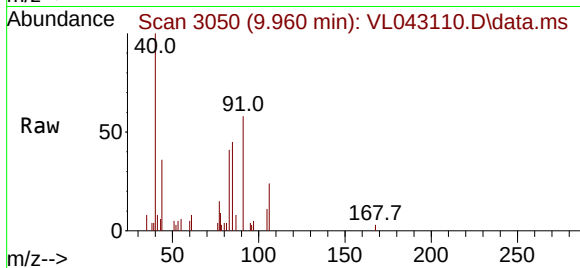
Tgt Ion: 83 Resp: 369

Ion Ratio Lower Upper

83 100

131 0.0 4.8 14.3#

85 181.6 32.0 96.0#



#64

n-propylbenzene

Concen: 0.033 ppbv

RT: 10.995 min Scan# 3370

Delta R.T. 0.003 min

Lab File: VL043110.D

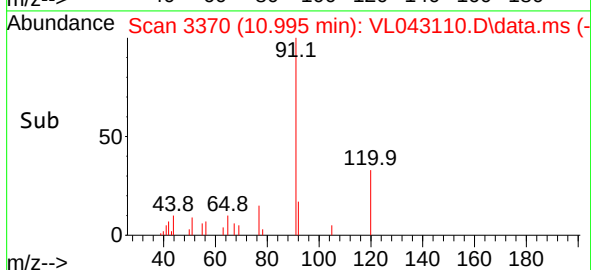
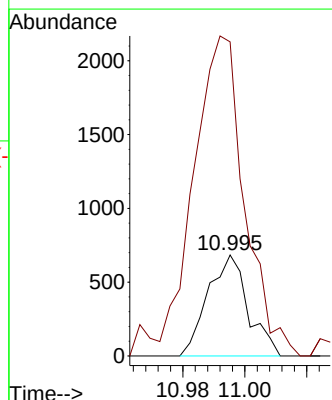
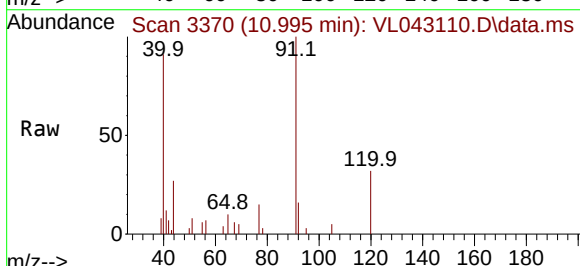
Acq: 14 Oct 2025 13:42

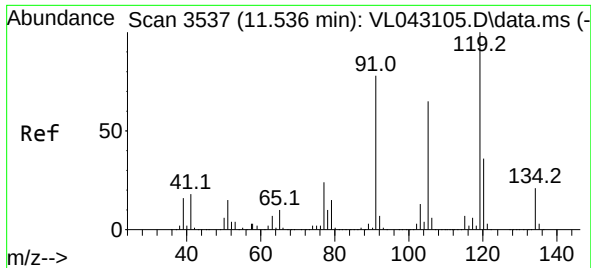
Tgt Ion: 120 Resp: 616

Ion Ratio Lower Upper

120 100

91 432.5 361.6 542.4

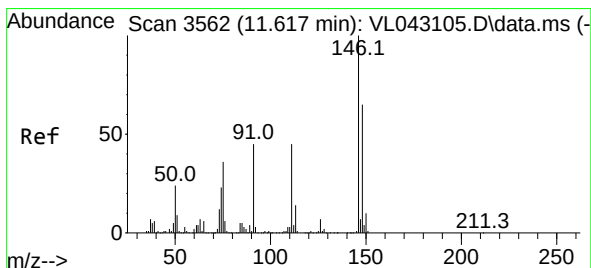
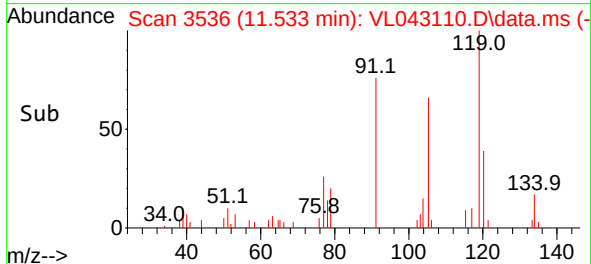
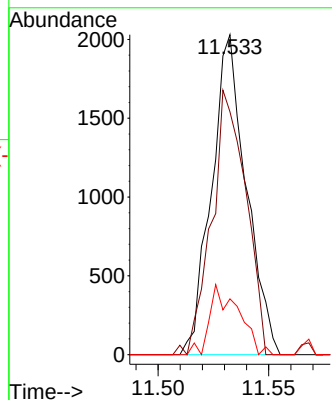
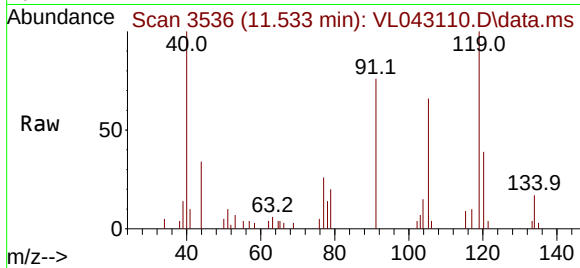




#65
tert-Butylbenzene
Concen: 0.035 ppbv
RT: 11.533 min Scan# 3536
Delta R.T. -0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

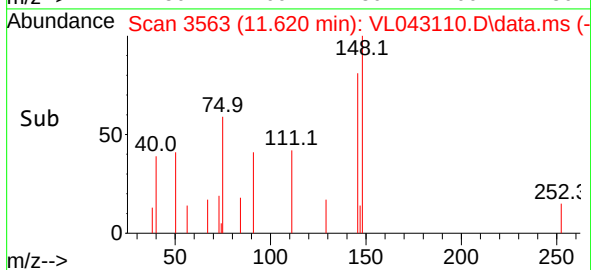
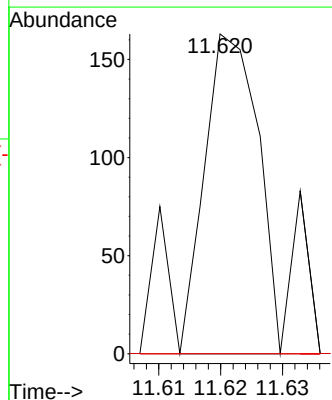
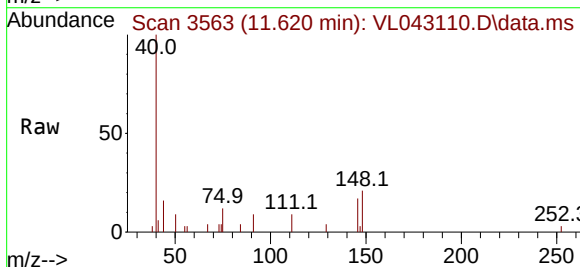
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

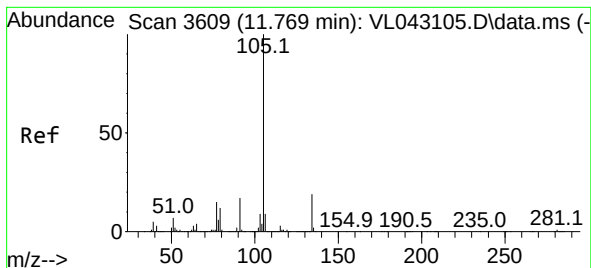
Tgt Ion:	119	Resp:	2219
Ion	Ratio	Lower	Upper
119	100		
91	82.6	63.4	95.0
134	18.3	17.3	25.9



#66
Benzyl Chloride
Concen: 0.014 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. 0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion:	91	Resp:	98
Ion	Ratio	Lower	Upper
91	100		
126	0.0	14.6	22.0#
128	0.0	4.6	6.8#





#67

sec-Butylbenzene

Concen: 0.035 ppbv

RT: 11.769 min Scan# 3170

Delta R.T. -0.000 min

Lab File: VL043110.D

Acq: 14 Oct 2025 13:42

Instrument :

MSVOA_L

ClientSampleId :

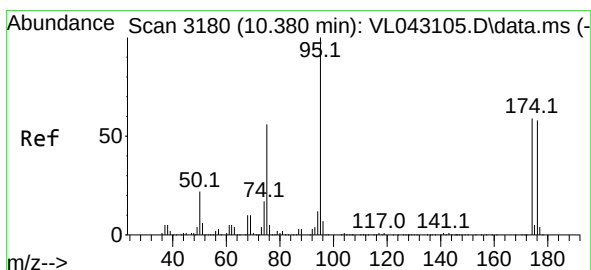
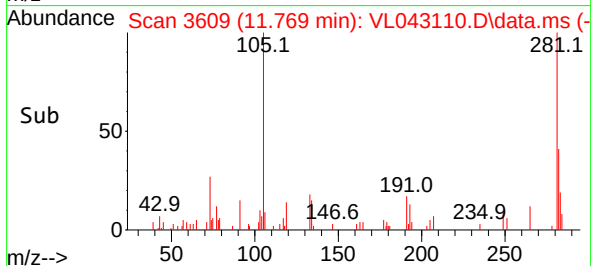
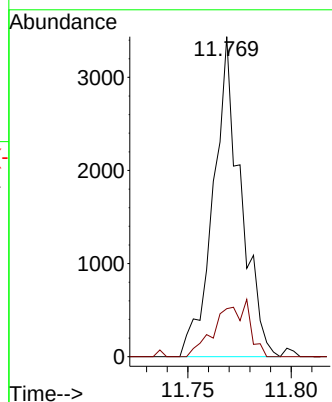
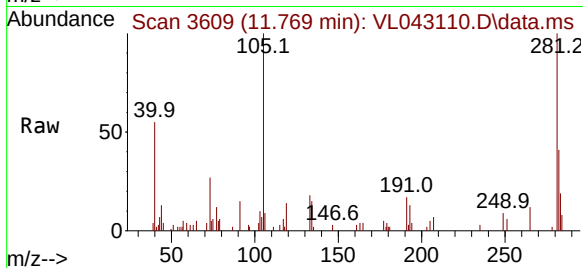
VSTDIC0.03

Tgt Ion:105 Resp: 3170

Ion Ratio Lower Upper

105 100

134 21.1 15.5 23.3



#68

1-Bromo-4-Fluorobenzene

Concen: 9.841 ppbv

RT: 10.377 min Scan# 3179

Delta R.T. -0.003 min

Lab File: VL043110.D

Acq: 14 Oct 2025 13:42

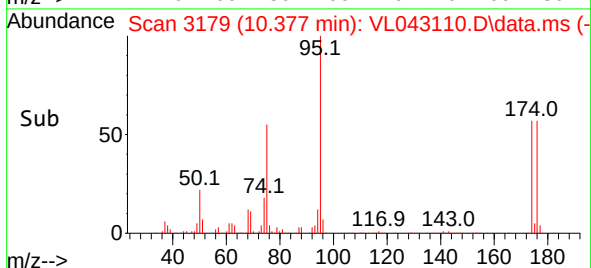
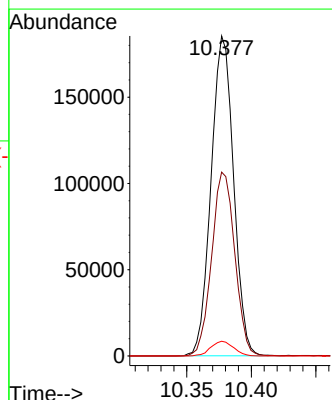
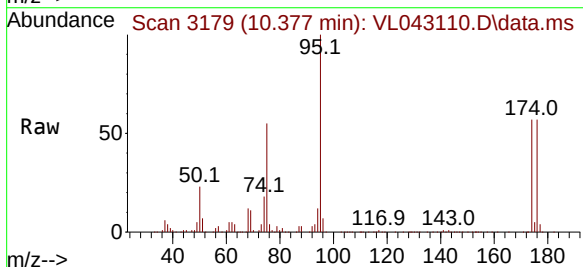
Tgt Ion: 95 Resp: 224043

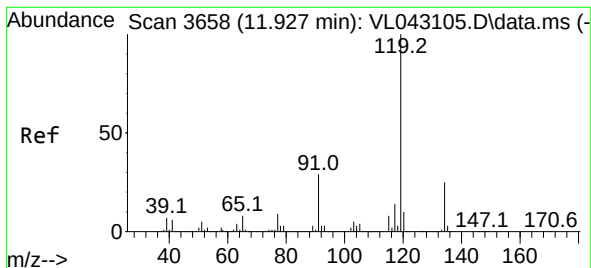
Ion Ratio Lower Upper

95 100

174 59.2 48.3 72.5

175 4.7 3.8 5.8





#69

p-Isopropyltoluene

Concen: 0.031 ppbv

RT: 11.927 min Scan# 3

Delta R.T. -0.000 min

Lab File: VL043110.D

Acq: 14 Oct 2025 13:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

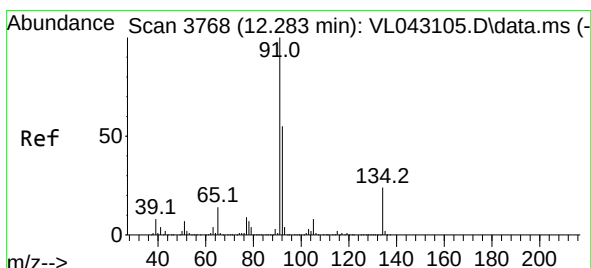
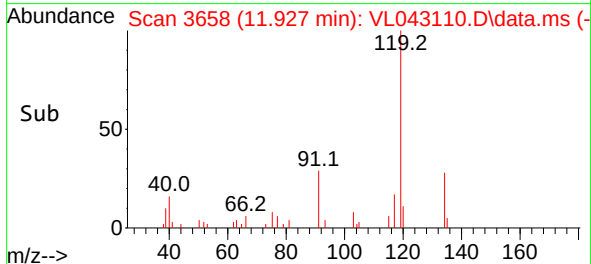
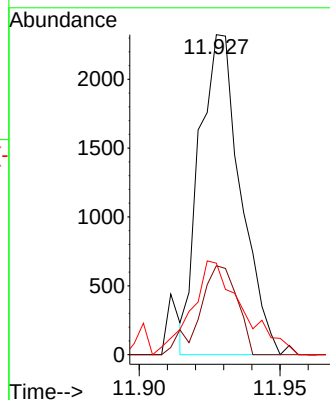
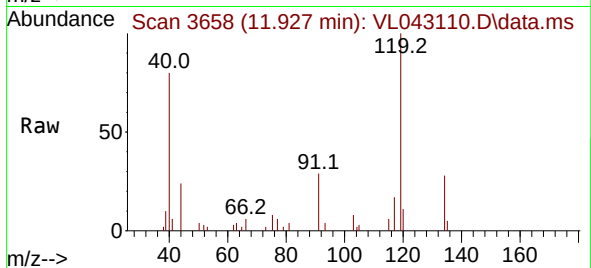
Tgt Ion:119 Resp: 2370

Ion Ratio Lower Upper

119 100

134 25.3 20.3 30.5

91 38.4 22.6 33.8#



#70

n-Butylbenzene

Concen: 0.020 ppbv

RT: 12.290 min Scan# 3770

Delta R.T. 0.006 min

Lab File: VL043110.D

Acq: 14 Oct 2025 13:42

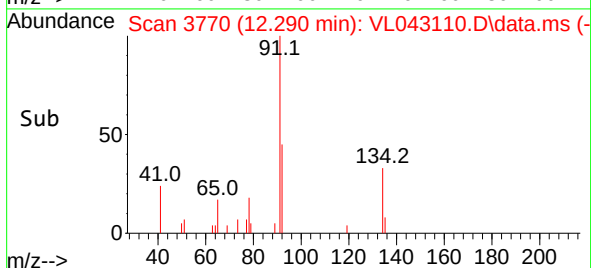
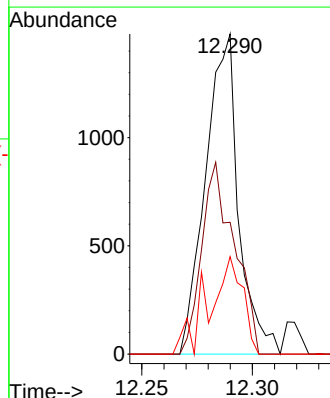
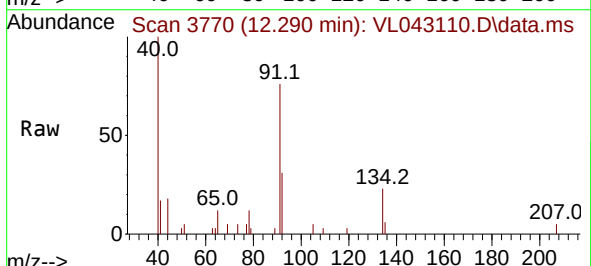
Tgt Ion: 91 Resp: 1534

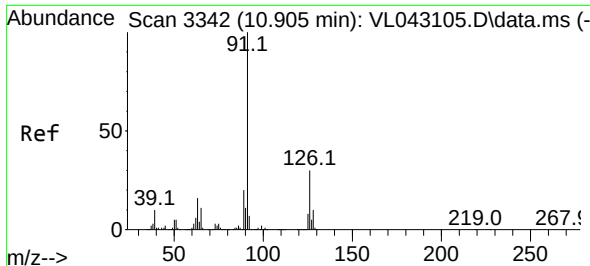
Ion Ratio Lower Upper

91 100

92 59.6 44.5 66.7

134 31.5 19.3 28.9#

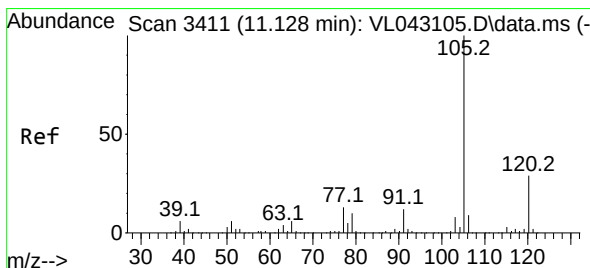
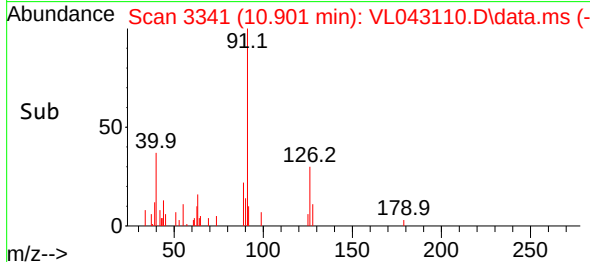
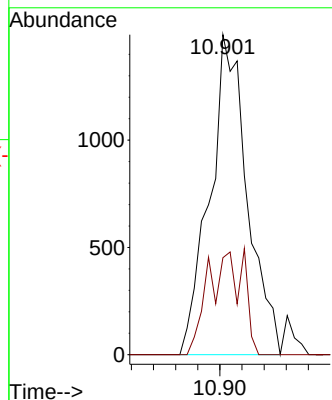
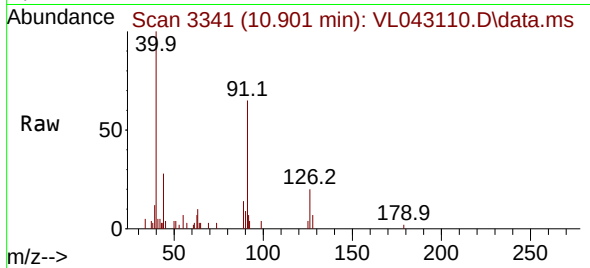




#71
2-Chlorotoluene
Concen: 0.032 ppbv
RT: 10.901 min Scan# 311
Delta R.T. -0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

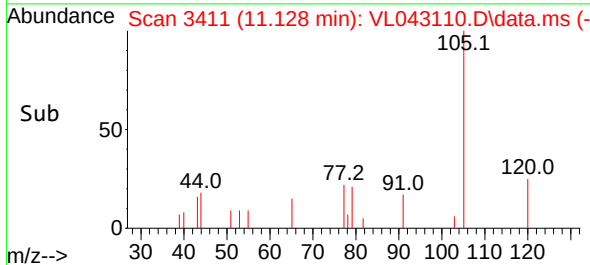
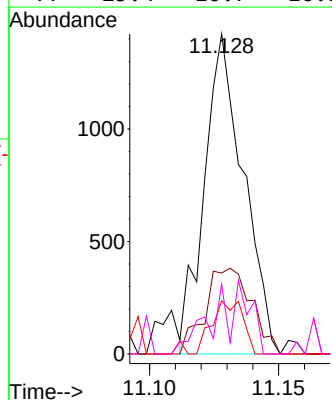
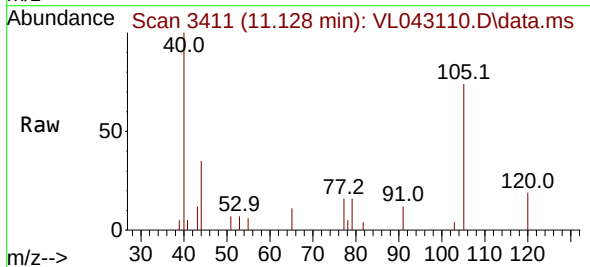
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

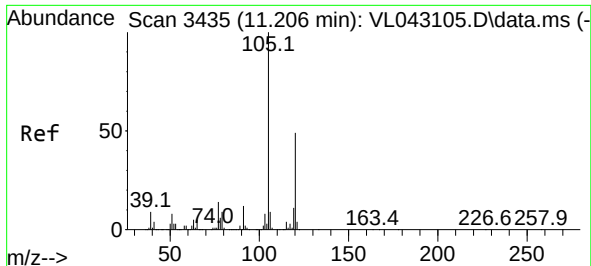
Tgt Ion: 91 Resp: 1757
Ion Ratio Lower Upper
91 100
126 30.1 12.0 48.0



#72
4-Ethyltoluene
Concen: 0.031 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. -0.000 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion: 105 Resp: 1502
Ion Ratio Lower Upper
105 100
120 32.0 24.2 36.4
91 13.9 10.0 15.0
77 25.4 10.7 16.1#

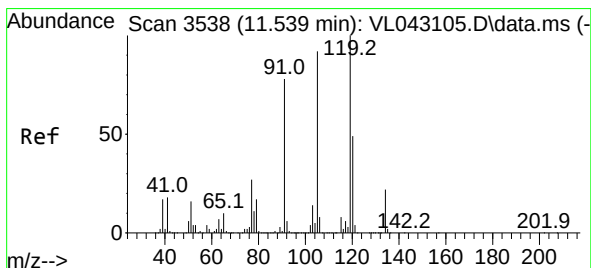
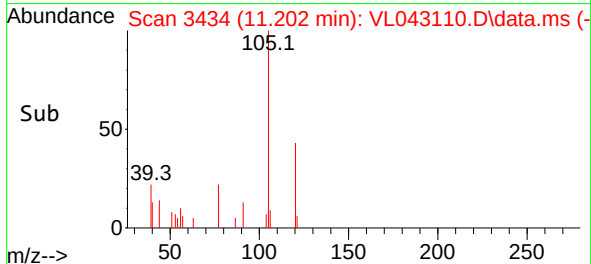
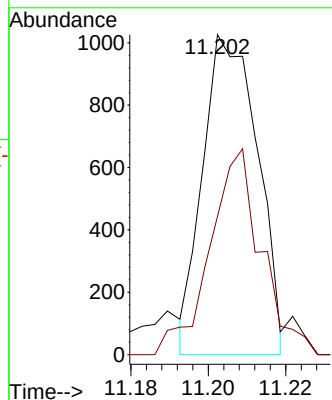
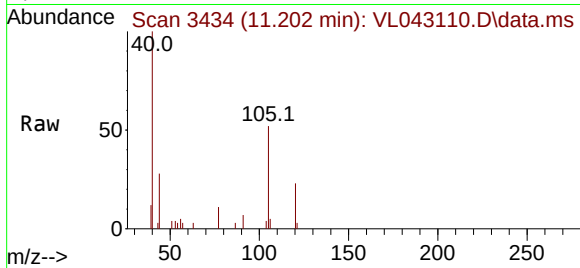




#73
1,3,5-Trimethylbenzene
Concen: 0.025 ppbv
RT: 11.202 min Scan# 3435
Delta R.T. -0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

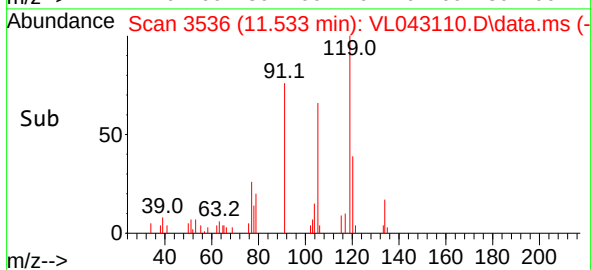
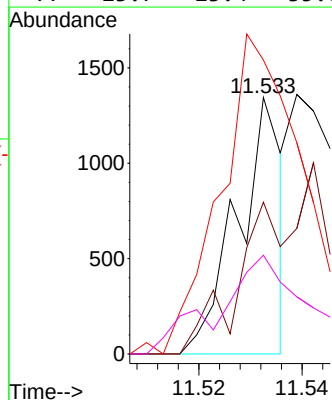
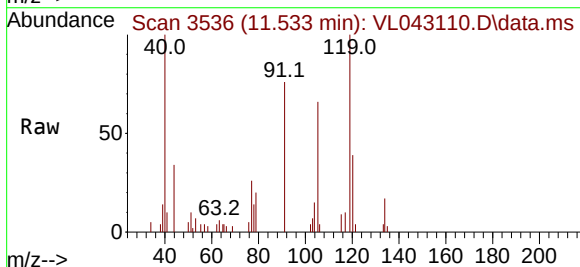
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

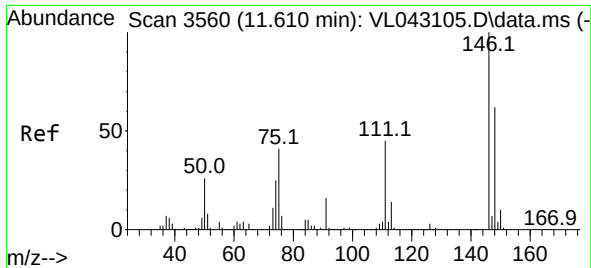
Tgt Ion:105 Resp: 1005
Ion Ratio Lower Upper
105 100
120 37.2 39.0 58.6#



#74
1,2,4-Trimethylbenzene
Concen: 0.018 ppbv
RT: 11.533 min Scan# 3536
Delta R.T. -0.007 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion:105 Resp: 806
Ion Ratio Lower Upper
105 100
120 59.2 42.8 64.2
91 98.1 68.3 102.5
77 23.7 23.4 35.0

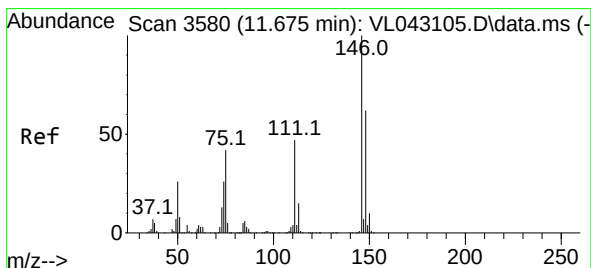
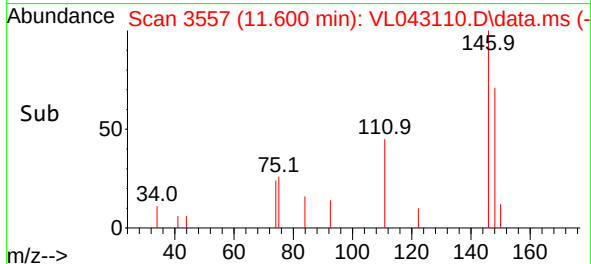
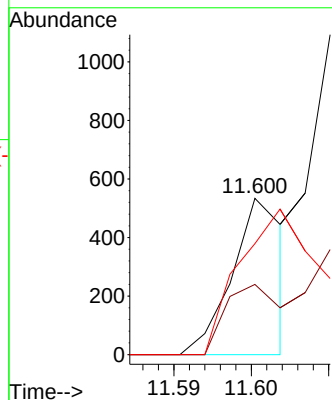
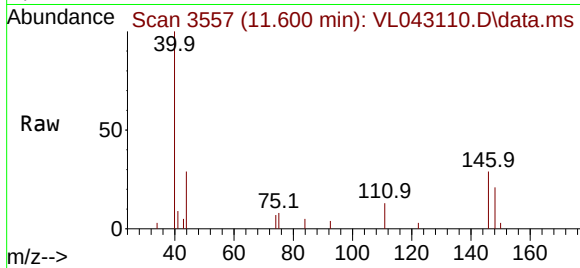




#75
1,3-Dichlorobenzene
Concen: 0.010 ppbv
RT: 11.600 min Scan# 3557
Delta R.T. -0.010 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

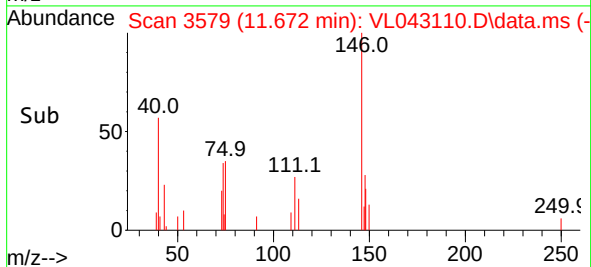
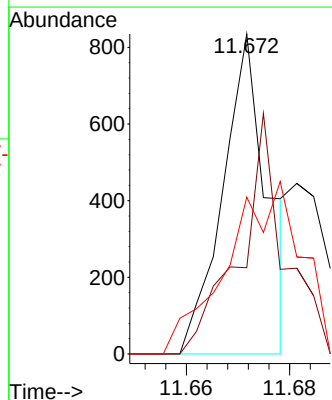
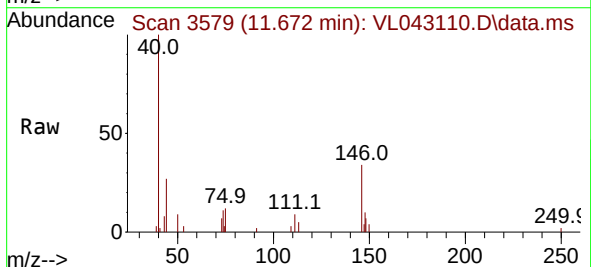
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

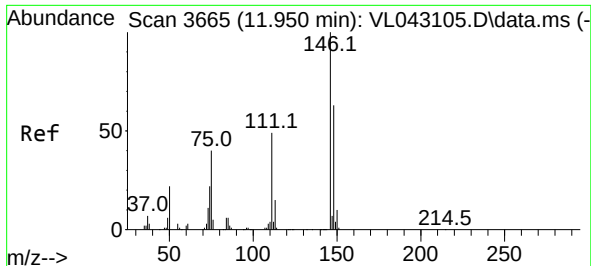
Tgt Ion:146 Resp: 251
Ion Ratio Lower Upper
146 100
111 0.0 23.3 69.9#
148 222.3 31.6 95.0#



#76
1,4-Dichlorobenzene
Concen: 0.019 ppbv
RT: 11.672 min Scan# 3579
Delta R.T. -0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion:146 Resp: 504
Ion Ratio Lower Upper
146 100
111 0.0 22.4 67.0#
148 0.0 31.6 94.7#

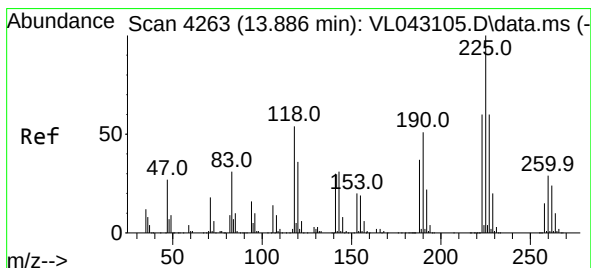
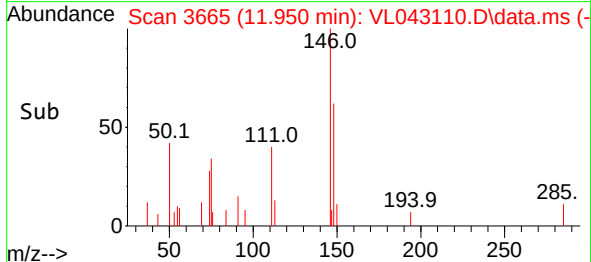
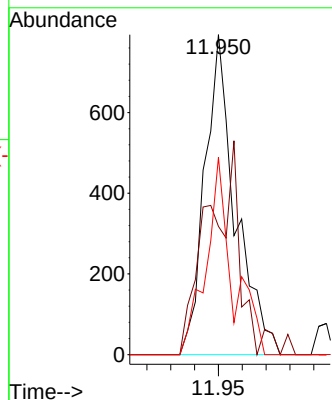
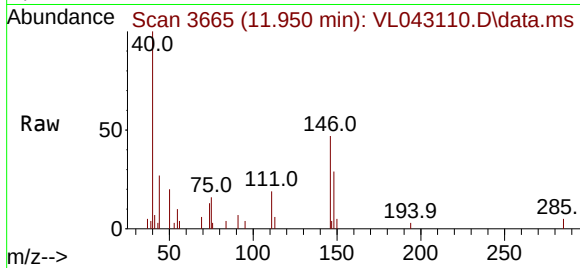




#77
1,2-Dichlorobenzene
Concen: 0.028 ppbv
RT: 11.950 min Scan# 3665
Delta R.T. -0.000 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

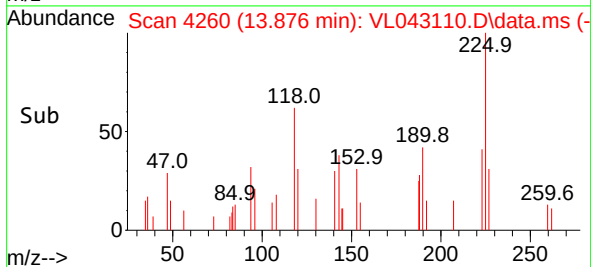
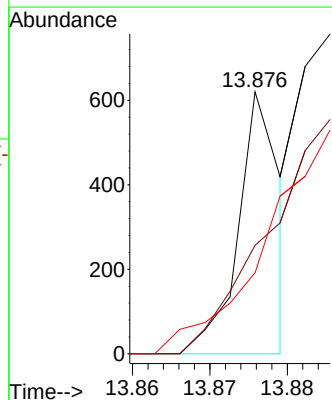
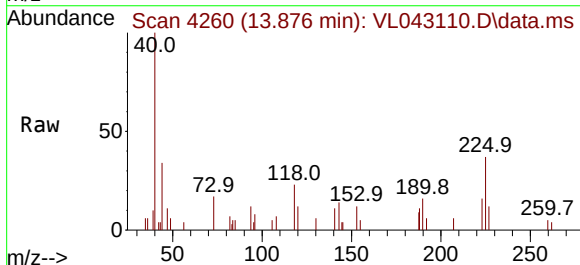
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

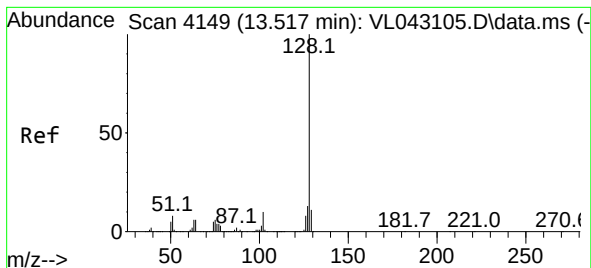
Tgt Ion:	146	Resp:	709
Ion	Ratio	Lower	Upper
146	100		
111	71.2	24.0	72.0
148	53.5	31.1	93.3



#78
Hexachloro-1,3-Butadiene
Concen: 0.012 ppbv
RT: 13.876 min Scan# 4260
Delta R.T. -0.010 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion:	225	Resp:	239
Ion	Ratio	Lower	Upper
225	100		
223	0.0	50.2	75.4#
227	0.0	49.6	74.4#





#79

Naphthalene

Concen: 0.018 ppbv

RT: 13.520 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL043110.D

Acq: 14 Oct 2025 13:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.03

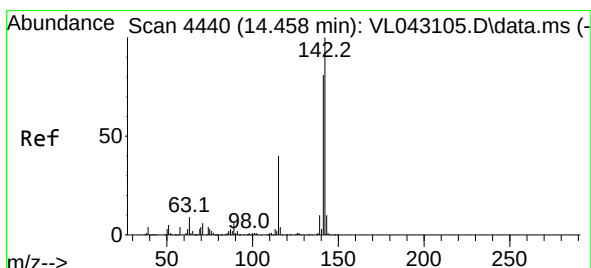
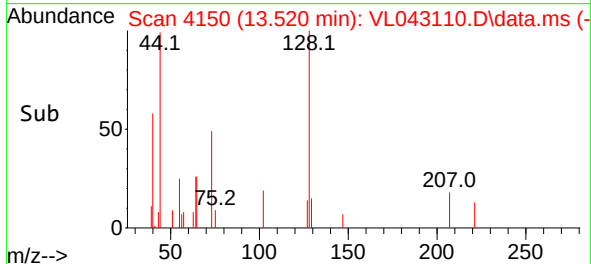
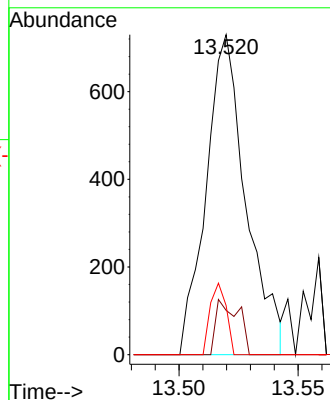
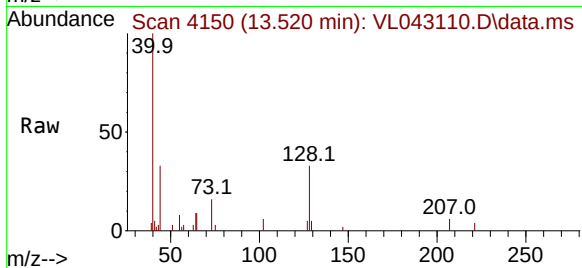
Tgt Ion:128 Resp: 851

Ion Ratio Lower Upper

128 100

127 13.8 10.5 15.7

129 15.3 9.1 13.7#



#80

Naphthalene,2-methyl-

Concen: 0.001 ppbv

RT: 14.458 min Scan# 4440

Delta R.T. -0.000 min

Lab File: VL043110.D

Acq: 14 Oct 2025 13:42

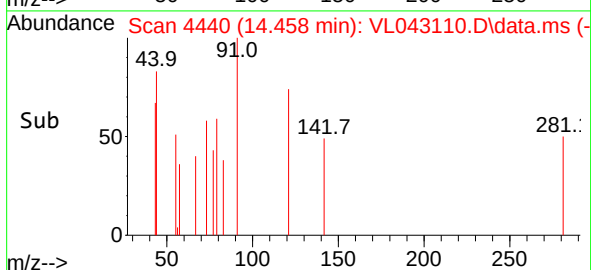
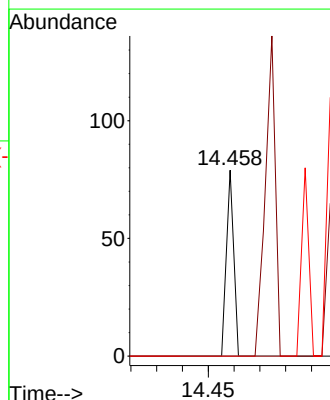
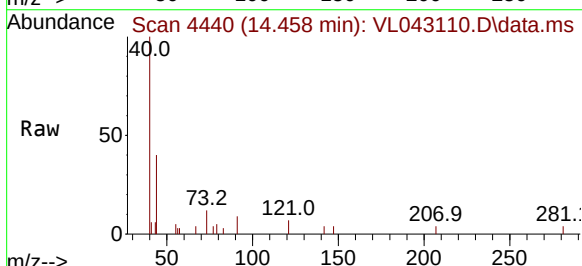
Tgt Ion:142 Resp: 15

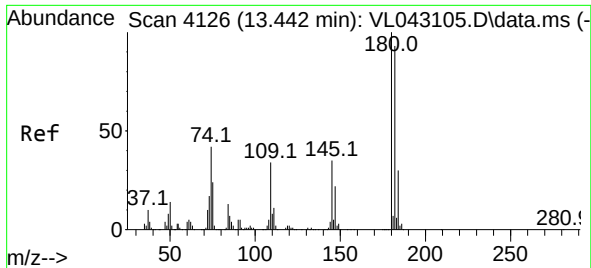
Ion Ratio Lower Upper

142 100

141 546.7 64.6 97.0#

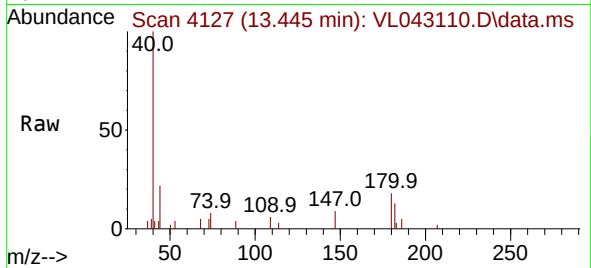
115 340.0 30.2 45.4#



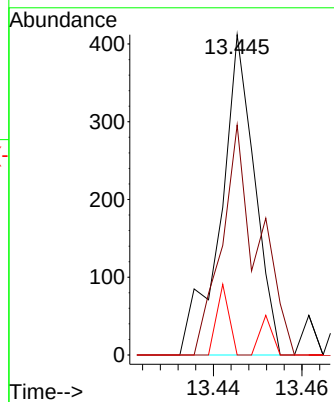
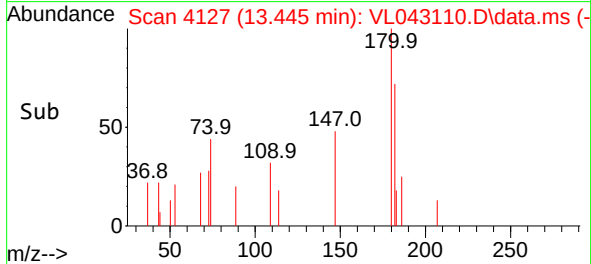


#81
 1,2,4-Trichlorobenzene
 Concen: 0.011 ppbv
 RT: 13.445 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL043110.D
 Acq: 14 Oct 2025 13:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03



Tgt Ion:180 Resp: 219
 Ion Ratio Lower Upper
 180 100
 182 76.7 75.5 113.3
 184 12.8 23.9 35.9#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
 Data File : VL043111.D
 Acq On : 14 Oct 2025 14:18
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Quant Time: Oct 15 01:55:55 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 01:49:43 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	100858	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	321665	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	292542	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	233522	10.270	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.700%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	193353	13.485	ppbv	98
3) Chlorodifluoromethane	1.476	51	205650	13.255	ppbv	98
4) Chloromethane	1.534	50	72111	12.695	ppbv	98
5) Vinyl Chloride	1.583	62	69909	12.548	ppbv	99
6) Bromomethane	1.670	94	39756	13.013	ppbv	98
7) Chloroethane	1.706	64	27709	12.164	ppbv	95
8) Dichlorotetrafluoroethane	1.557	85	156753	13.526	ppbv	100
9) Propene	1.486	41	88451	12.854	ppbv	98
10) Heptane	4.985	43	249682	12.658	ppbv	99
11) Trichlorofluoromethane	1.881	101	191307	13.640	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.143	101	150640	13.341	ppbv	98
13) Ethanol	1.722	45	25828	10.148	ppbv	98
14) Bromoethene	1.784	108	54818	13.068	ppbv	99
15) Acetone	1.835	43	160069	11.710	ppbv	100
16) 1,3-Butadiene	1.612	39	80403	12.411	ppbv	98
17) tert-Butyl alcohol	2.039	59	237633	12.735	ppbv	99
18) 1,1-Dichloroethene	2.036	96	65634	13.333	ppbv	98
19) Isopropyl Alcohol	1.887	45	102035	12.051	ppbv	98
20) Methylene Chloride	2.065	84	60549	11.268	ppbv	90
21) Allyl Chloride	2.097	41	131539	13.105	ppbv	95
22) trans-1,2-Dichloroethene	2.343	96	76780	13.048	ppbv	97
23) Vinyl Acetate	2.463	43	288274	14.476	ppbv	98
24) 1,1-Dichloroethane	2.411	63	152663	13.428	ppbv	99
25) Ethyl Acetate	2.835	43	434350	12.884	ppbv	100
26) Hexane	2.829	57	199384	12.836	ppbv	98
27) Carbon Disulfide	2.152	76	192452	13.522	ppbv	100
28) Methyl tert-Butyl Ether	2.441	73	96464	13.650	ppbv	94
29) Chloroform	2.852	83	302154	13.425	ppbv	98
30) Cyclohexane	3.858	84	177947	13.133	ppbv	95
31) cis-1,2-Dichloroethene	2.722	61	203888	13.745	ppbv	97
32) 1,1,1-Trichloroethane	3.373	97	316442	13.500	ppbv	99
34) 2-Butanone	2.557	43	283134	13.020	ppbv	99
35) Carbon Tetrachloride	3.764	117	325078	14.056	ppbv	98
36) Benzene	3.661	78	415823	13.725	ppbv	99
37) 1,2-Dichloroethane	3.221	62	241983	13.865	ppbv	98
38) Trichloroethene	4.551	130	159136	12.590	ppbv	97
39) 1,2-Dichloropropane	4.318	63	147155	13.274	ppbv	95
40) 1,4-Dioxane	4.580	88	65323	13.180	ppbv #	94
41) Tetrahydrofuran	3.052	42	160247	13.200	ppbv	99
42) Bromodichloromethane	4.493	83	343817	14.234	ppbv	99
43) Methyl Methacrylate	4.881	69	210756	13.633	ppbv	98
44) 2,2,4-Trimethylpentane	4.645	57	675770	13.340	ppbv	99
45) t-1,3-Dichloropropene	6.418	75	218386	14.142	ppbv	97

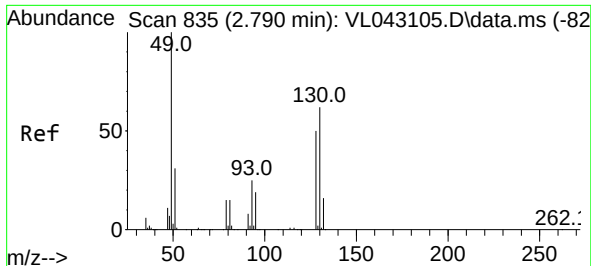
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
 Data File : VL043111.D
 Acq On : 14 Oct 2025 14:18
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Quant Time: Oct 15 01:55:55 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 01:49:43 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.606	75	258355	14.018	ppbv	98
47) 1,1,2-Trichloroethane	6.583	97	163113	13.638	ppbv	94
48) Dibromochloromethane	7.393	129	280993	14.051	ppbv	100
49) Bromoform	9.487	173	230561	14.184	ppbv	100
50) 4-Methyl-2-Pentanone	5.748	43	401849	13.396	ppbv	100
51) 2-Hexanone	7.435	43	317288	14.176	ppbv #	99
52) Tetrachloroethene	8.231	164	143954	13.177	ppbv	98
53) Toluene	6.936	91	483870	13.457	ppbv	100
54) 1,2-Dibromoethane	7.655	107	254024	13.461	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.927	131	250303	13.573	ppbv	99
57) Chlorobenzene	8.927	112	355301	12.983	ppbv	98
58) Ethyl Benzene	9.357	91	676918	13.375	ppbv	97
59) m/p-Xylene	9.535	91	626074	15.622	ppbv #	29
60) o-Xylene	9.966	91	516660	13.063	ppbv	99
61) Styrene	9.875	104	247585	13.867	ppbv	99
62) Isopropylbenzene	10.542	105	931508	13.034	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.966	83	331423	12.515	ppbv	100
64) n-propylbenzene	10.992	120	241719	12.775	ppbv	96
65) tert-Butylbenzene	11.532	119	788234	12.490	ppbv	97
66) Benzyl Chloride	11.620	91	97114	13.778	ppbv	99
67) sec-Butylbenzene	11.769	105	1125489	12.566	ppbv	99
69) p-Isopropyltoluene	11.930	119	959206	12.602	ppbv	99
70) n-Butylbenzene	12.283	91	973466	12.979	ppbv	100
71) 2-Chlorotoluene	10.904	91	721827	13.242	ppbv	98
72) 4-Ethyltoluene	11.128	105	647315	13.310	ppbv	99
73) 1,3,5-Trimethylbenzene	11.205	105	534006	13.314	ppbv	98
74) 1,2,4-Trimethylbenzene	11.542	105	560932	12.498	ppbv #	86
75) 1,3-Dichlorobenzene	11.610	146	339203	13.031	ppbv	99
76) 1,4-Dichlorobenzene	11.675	146	341936	13.027	ppbv	99
77) 1,2-Dichlorobenzene	11.950	146	318800	12.660	ppbv	99
78) Hexachloro-1,3-Butadiene	13.882	225	226294	11.606	ppbv	99
79) Naphthalene	13.516	128	661098	14.260	ppbv	99
80) Naphthalene,2-methyl-	14.458	142	212784	17.384	ppbv	98
81) 1,2,4-Trichlorobenzene	13.442	180	266712	13.698	ppbv	100

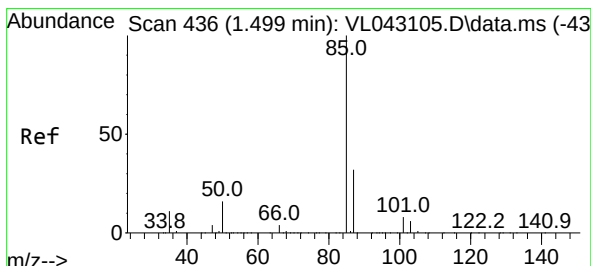
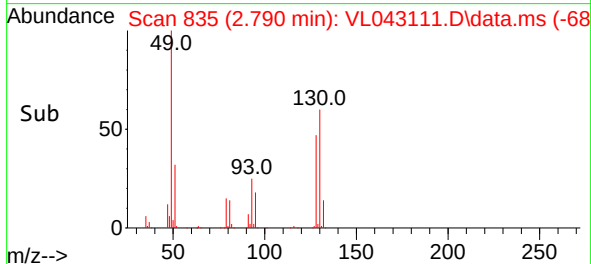
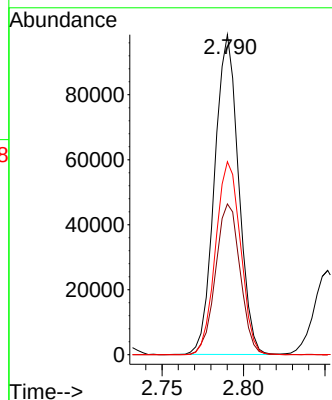
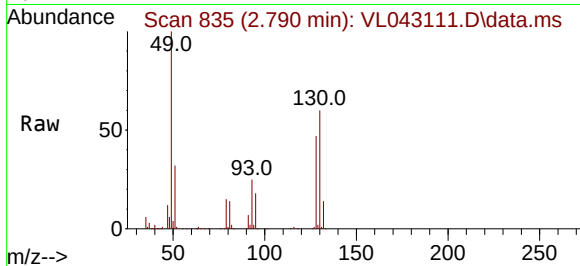
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

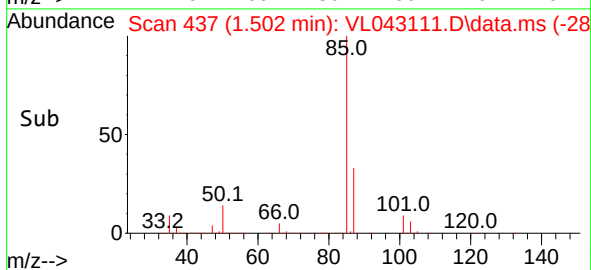
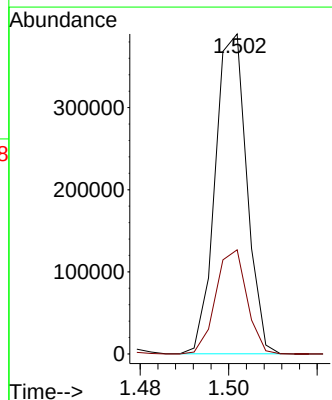
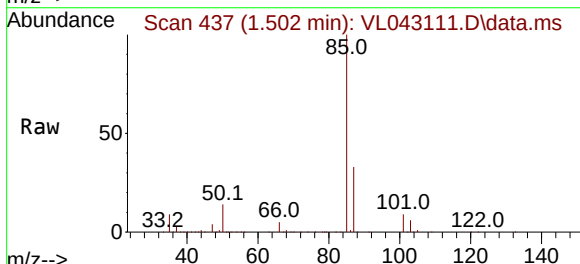
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

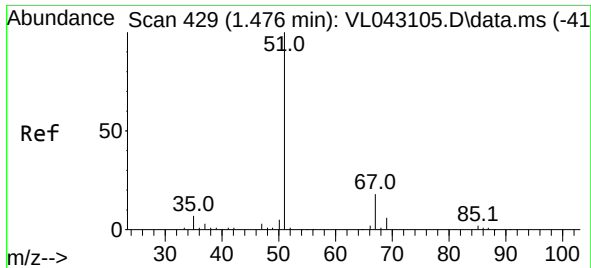
Tgt Ion: 49 Resp: 100858
Ion Ratio Lower Upper
49 100
128 48.4 24.4 73.4
130 62.4 31.0 93.0



#2
Dichlorodifluoromethane
Concen: 13.485 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 85 Resp: 193353
Ion Ratio Lower Upper
85 100
87 32.6 25.3 37.9

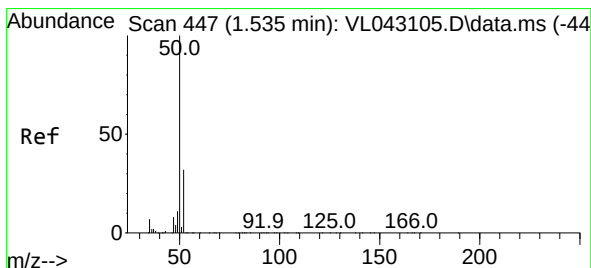
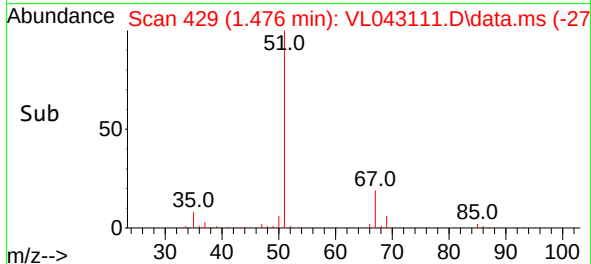
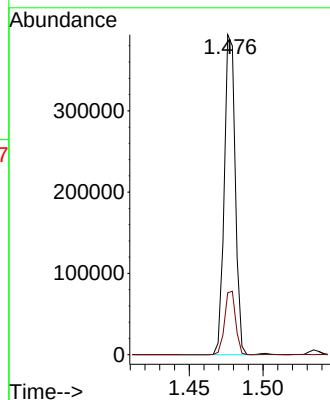
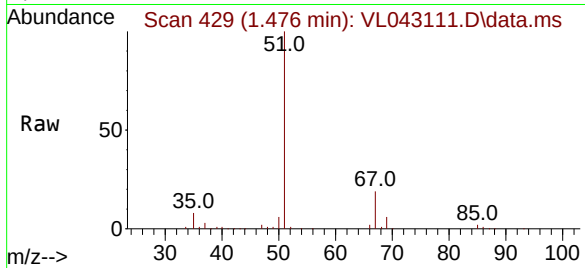




#3
Chlorodifluoromethane
Concen: 13.255 ppbv
RT: 1.476 min Scan# 429
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

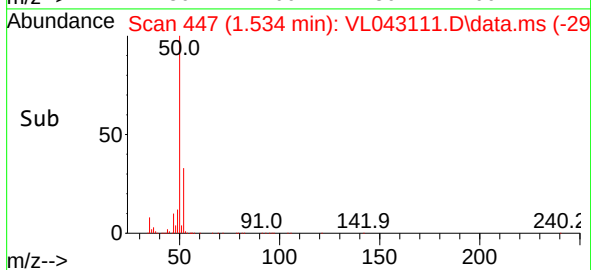
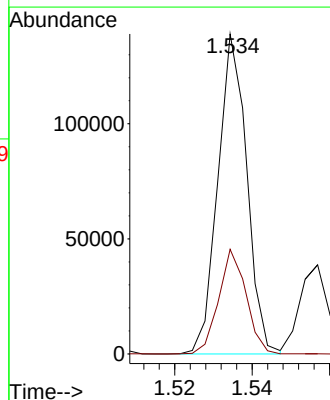
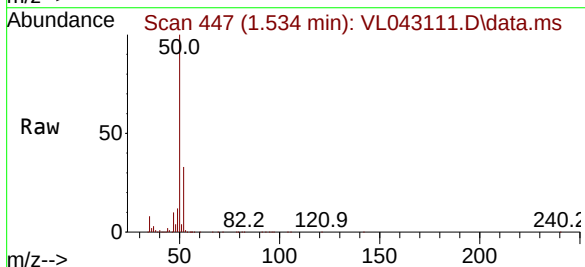
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

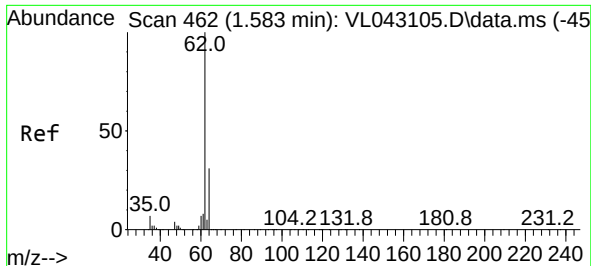
Tgt Ion: 51 Resp: 205650
Ion Ratio Lower Upper
51 100
67 20.0 15.1 22.7



#4
Chloromethane
Concen: 12.695 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 50 Resp: 72111
Ion Ratio Lower Upper
50 100
52 32.7 25.2 37.8

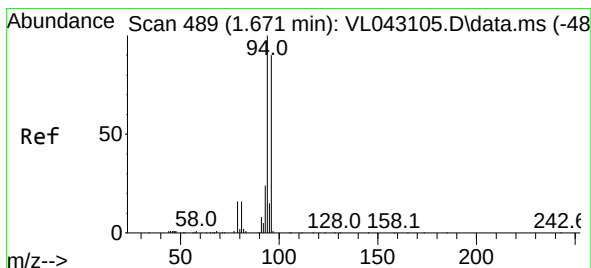
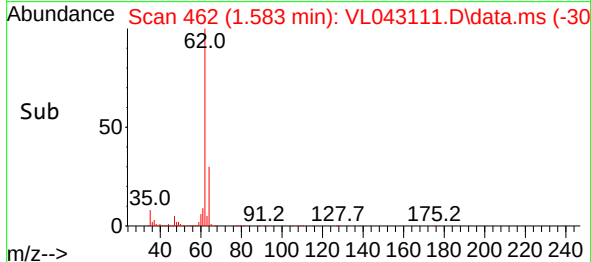
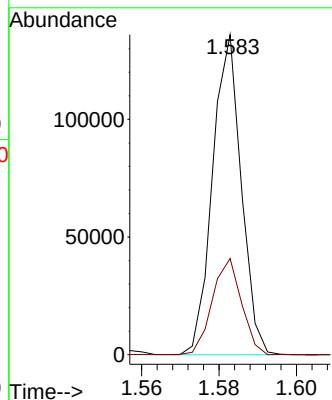
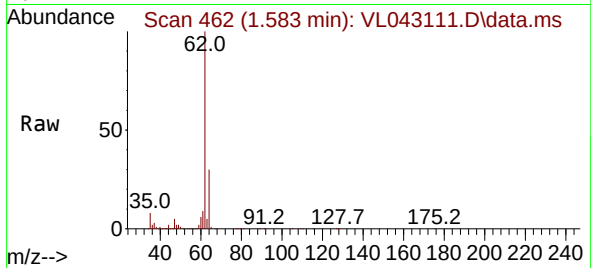




#5
 Vinyl Chloride
 Concen: 12.548 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. -0.000 min
 Lab File: VL043111.D
 Acq: 14 Oct 2025 14:18

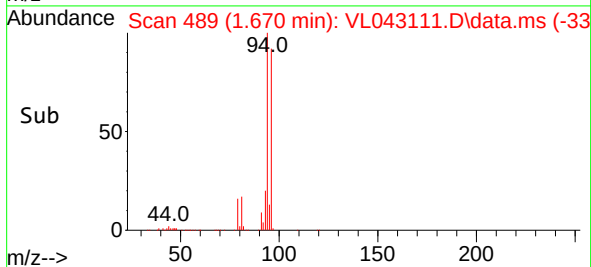
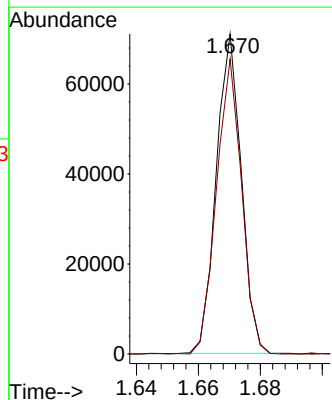
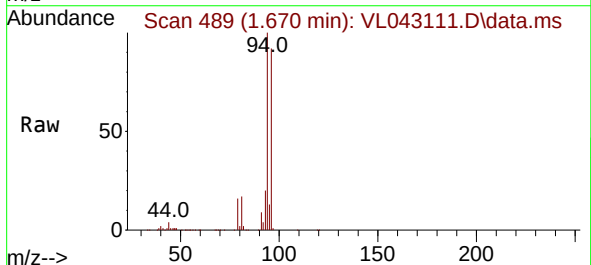
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

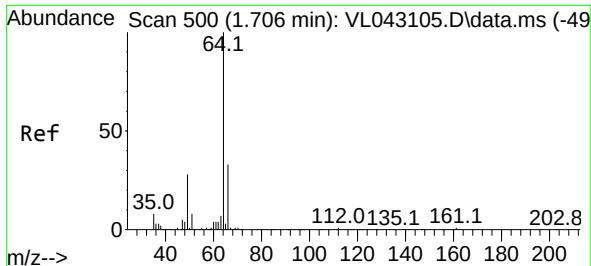
Tgt Ion: 62 Resp: 69909
 Ion Ratio Lower Upper
 62 100
 64 30.0 24.6 36.8



#6
 Bromomethane
 Concen: 13.013 ppbv
 RT: 1.670 min Scan# 489
 Delta R.T. -0.000 min
 Lab File: VL043111.D
 Acq: 14 Oct 2025 14:18

Tgt Ion: 94 Resp: 39756
 Ion Ratio Lower Upper
 94 100
 96 92.4 72.2 108.4

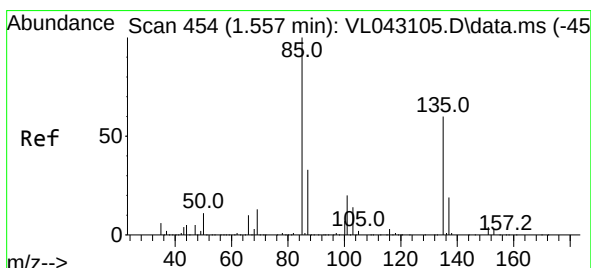
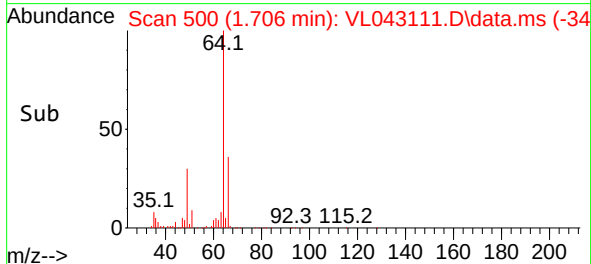
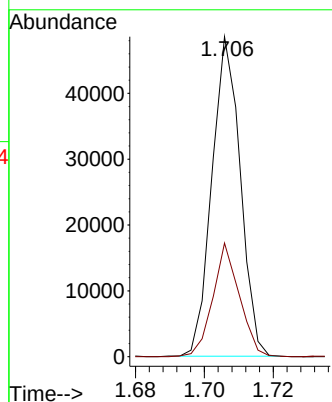
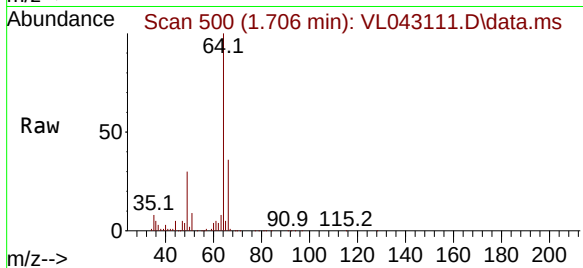




#7
Chloroethane
Concen: 12.164 ppbv
RT: 1.706 min Scan# 500
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

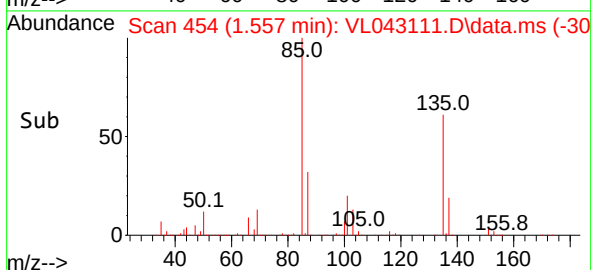
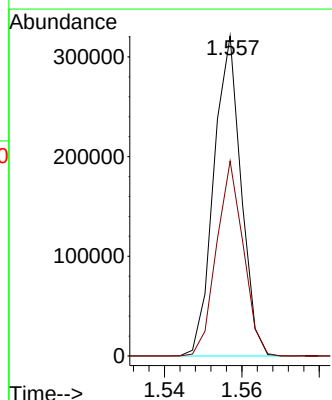
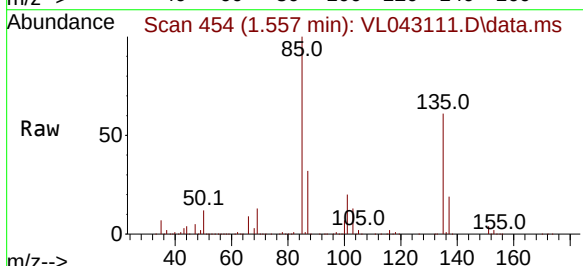
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

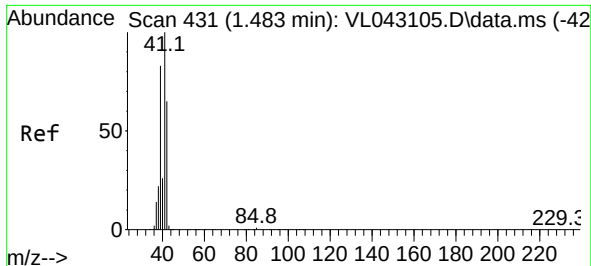
Tgt Ion: 64 Resp: 27709
Ion Ratio Lower Upper
64 100
66 35.5 26.0 39.0



#8
Dichlorotetrafluoroethane
Concen: 13.526 ppbv
RT: 1.557 min Scan# 454
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 85 Resp: 156753
Ion Ratio Lower Upper
85 100
135 60.1 48.2 72.4





#9

Propene

Concen: 12.854 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

Instrument :

MSVOA_1

ClientSampleId :

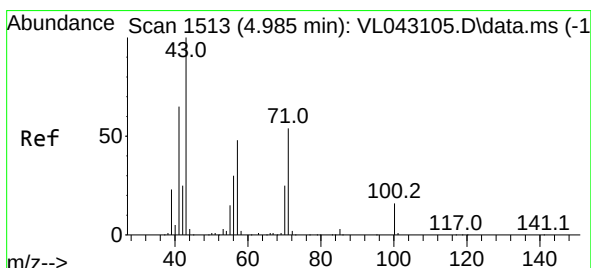
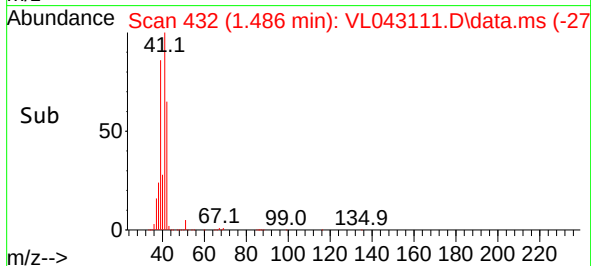
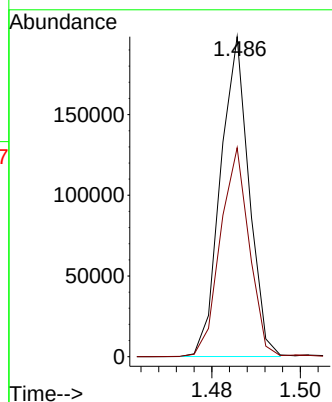
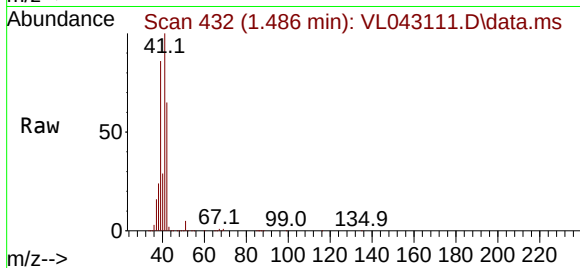
VSTDIC015

Tgt Ion: 41 Resp: 88451

Ion Ratio Lower Upper

41 100

42 67.2 55.1 82.7



#10

Heptane

Concen: 12.658 ppbv

RT: 4.985 min Scan# 1513

Delta R.T. -0.000 min

Lab File: VL043111.D

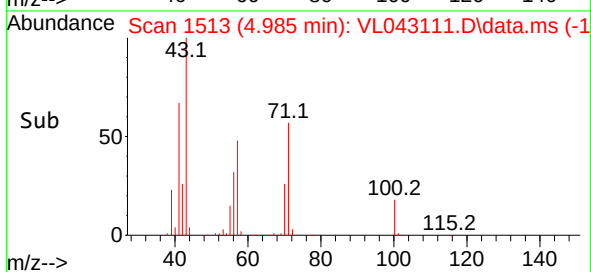
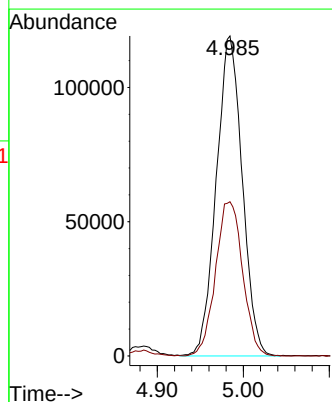
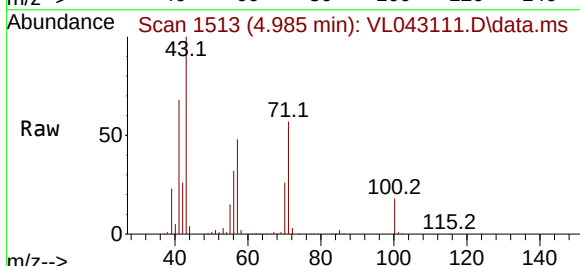
Acq: 14 Oct 2025 14:18

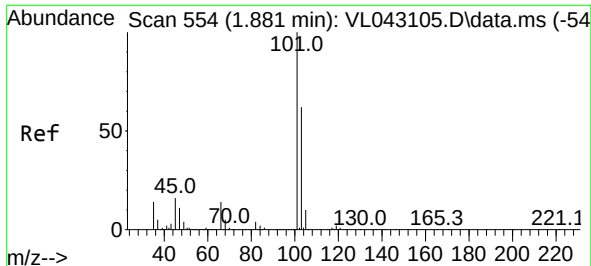
Tgt Ion: 43 Resp: 249682

Ion Ratio Lower Upper

43 100

57 50.3 40.8 61.2

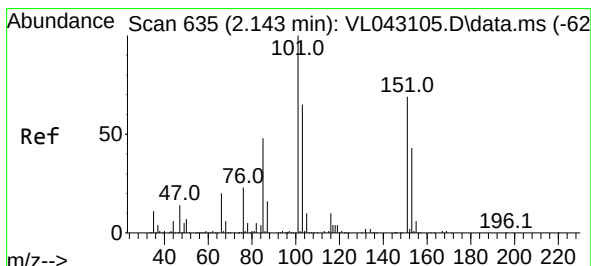
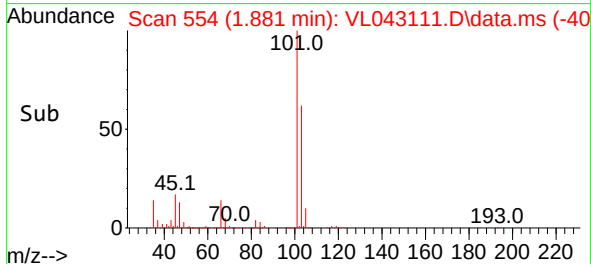
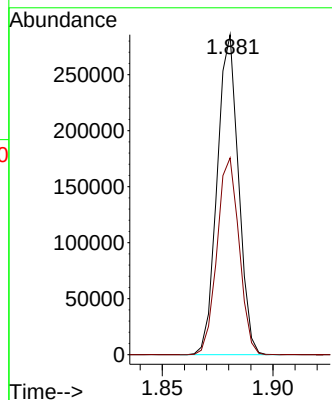
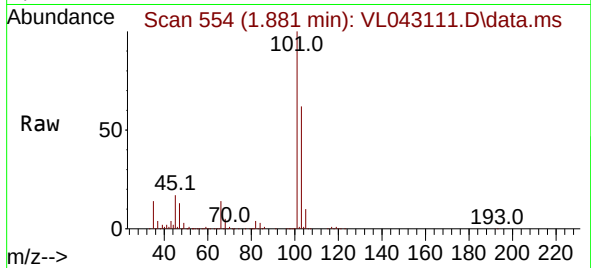




#11
 Trichlorofluoromethane
 Concen: 13.640 ppbv
 RT: 1.881 min Scan# 511
 Delta R.T. -0.000 min
 Lab File: VL043111.D
 Acq: 14 Oct 2025 14:18

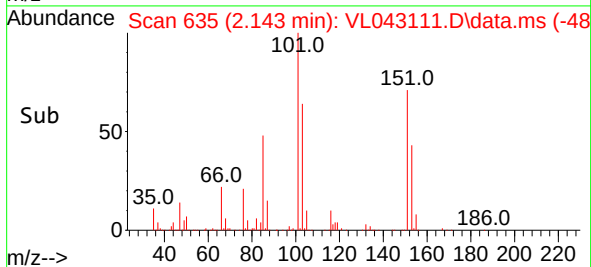
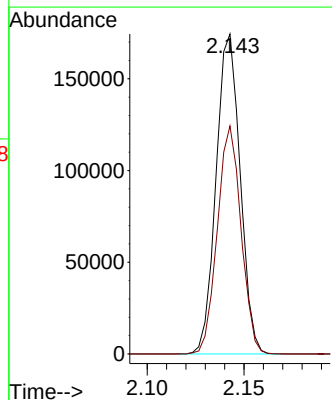
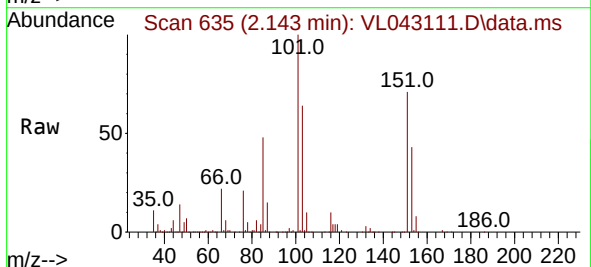
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

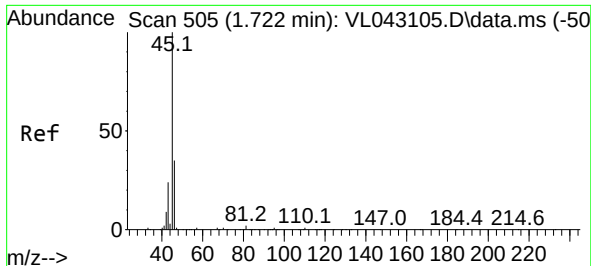
Tgt Ion:101 Resp: 191307
 Ion Ratio Lower Upper
 101 100
 103 61.5 49.3 73.9



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 13.341 ppbv
 RT: 2.143 min Scan# 635
 Delta R.T. -0.000 min
 Lab File: VL043111.D
 Acq: 14 Oct 2025 14:18

Tgt Ion:101 Resp: 150640
 Ion Ratio Lower Upper
 101 100
 151 70.0 54.7 82.1

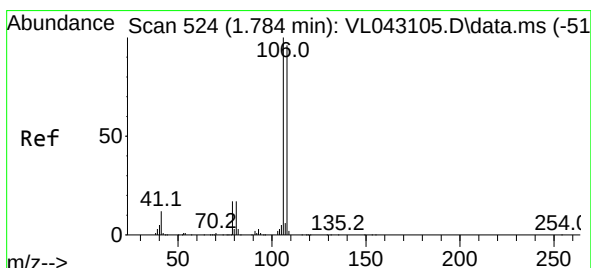
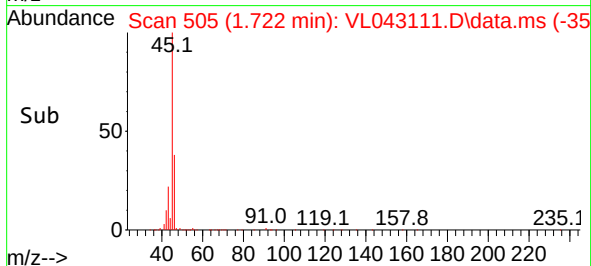
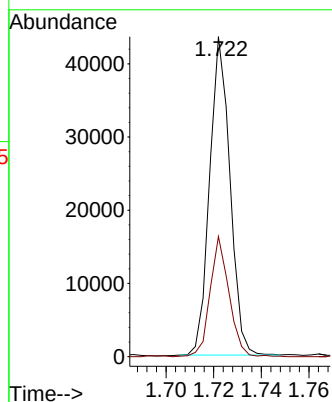
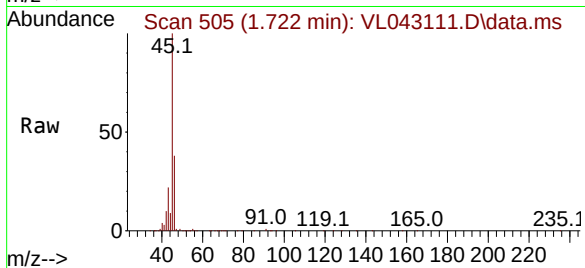




#13
Ethanol
Concen: 10.148 ppbv
RT: 1.722 min Scan# 505
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

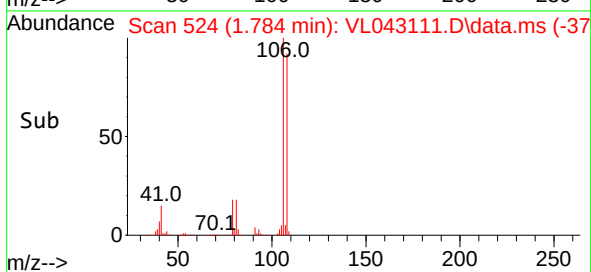
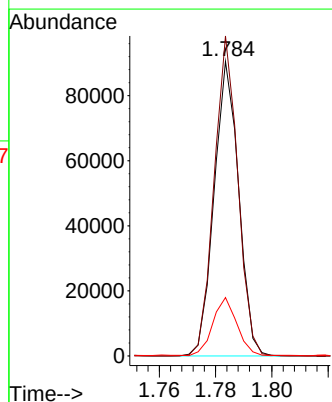
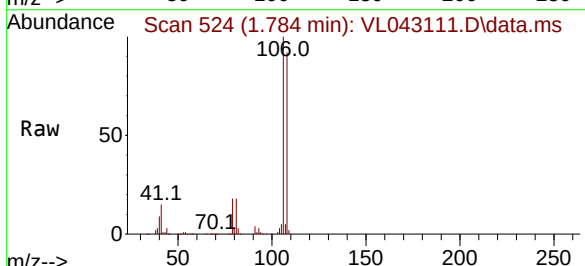
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

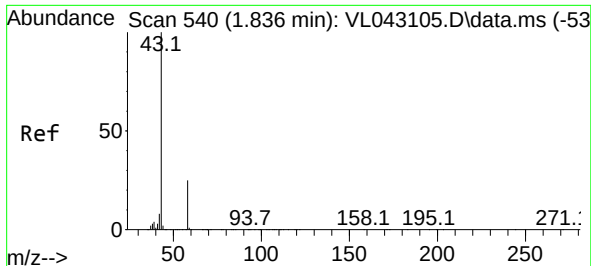
Tgt Ion: 45 Resp: 25828
Ion Ratio Lower Upper
45 100
46 35.5 14.7 58.9



#14
Bromoethene
Concen: 13.068 ppbv
RT: 1.784 min Scan# 524
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 108 Resp: 54818
Ion Ratio Lower Upper
108 100
106 104.9 84.4 126.6
79 20.2 15.3 22.9

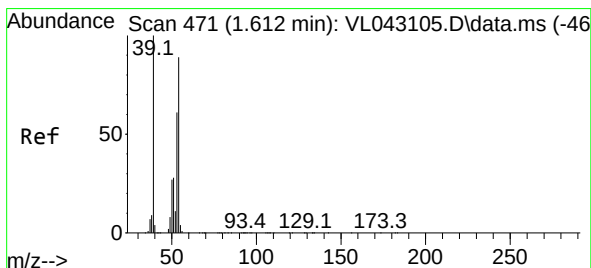
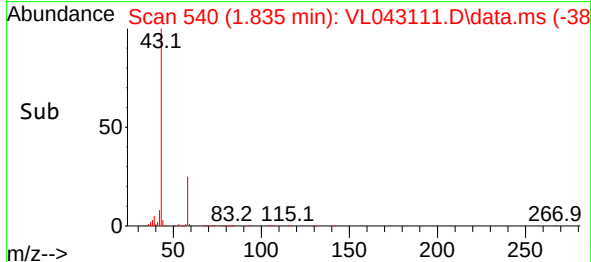
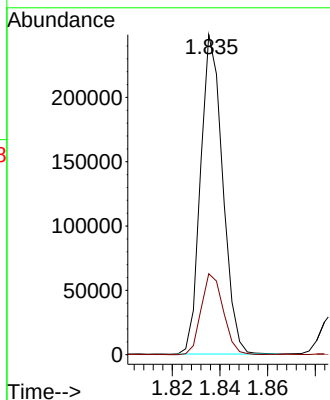
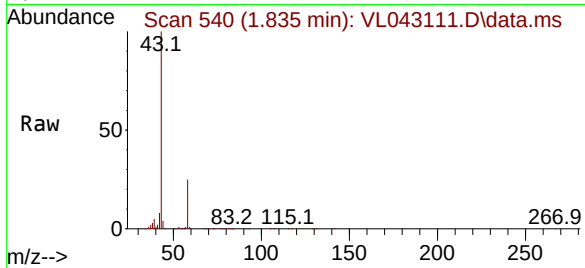




#15
Acetone
Concen: 11.710 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

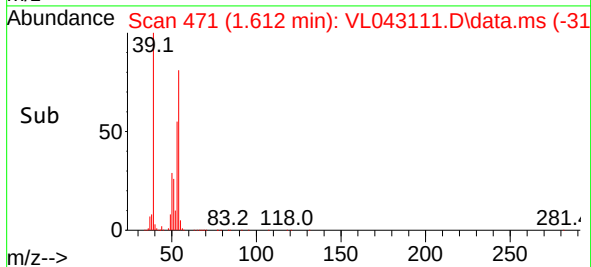
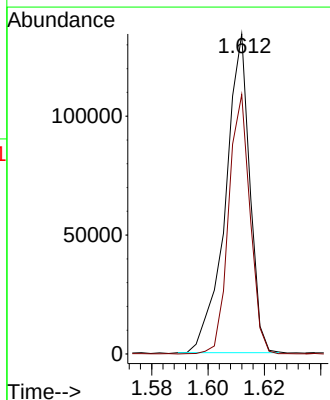
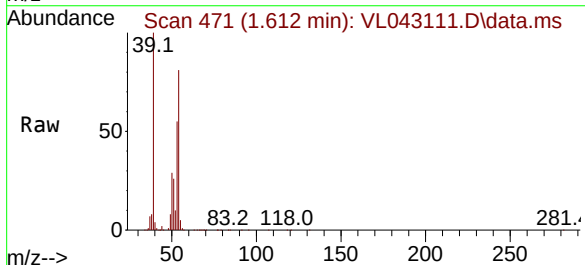
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

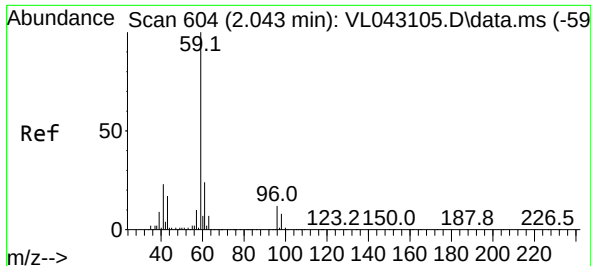
Tgt Ion: 43 Resp: 160069
Ion Ratio Lower Upper
43 100
58 26.0 20.8 31.2



#16
1,3-Butadiene
Concen: 12.411 ppbv
RT: 1.612 min Scan# 471
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 39 Resp: 80403
Ion Ratio Lower Upper
39 100
54 71.8 59.0 88.4





#17

tert-Butyl alcohol

Concen: 12.735 ppbv

RT: 2.039 min Scan# 604

Delta R.T. -0.004 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

Instrument :

MSVOA_L

ClientSampleId :

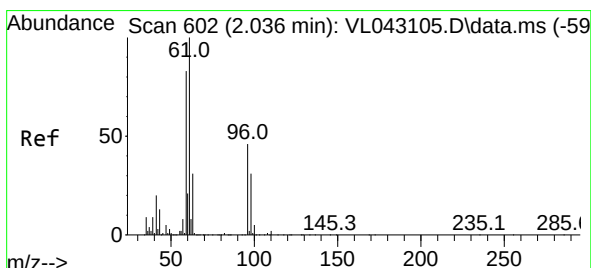
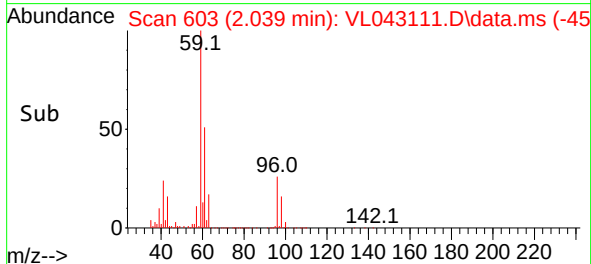
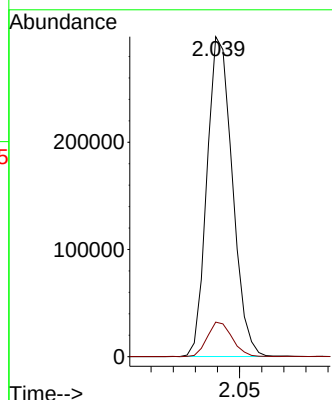
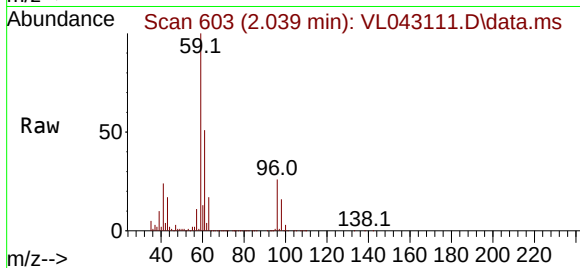
VSTDIC015

Tgt Ion: 59 Resp: 237633

Ion Ratio Lower Upper

59 100

57 10.6 8.2 12.4



#18

1,1-Dichloroethene

Concen: 13.333 ppbv

RT: 2.036 min Scan# 602

Delta R.T. -0.000 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

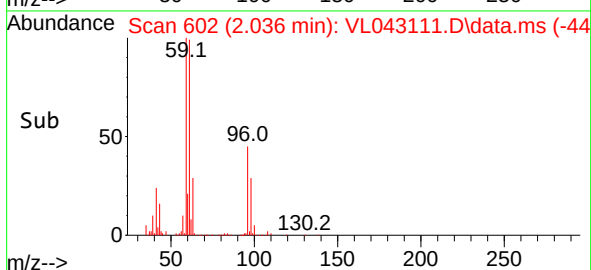
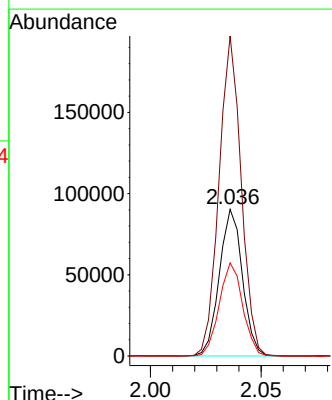
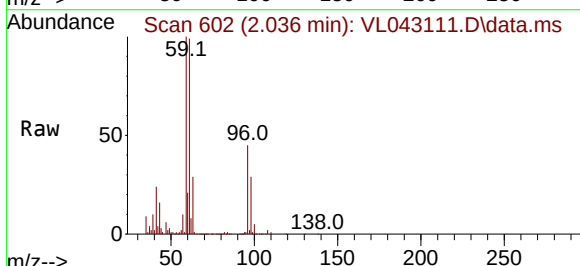
Tgt Ion: 96 Resp: 65634

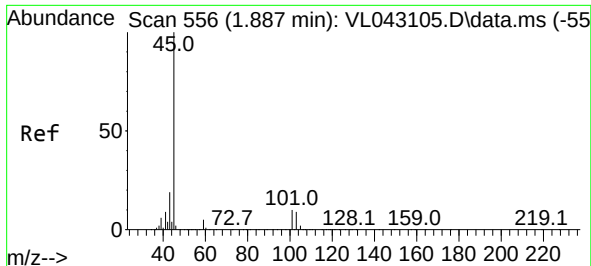
Ion Ratio Lower Upper

96 100

61 218.2 173.4 260.0

98 63.5 53.2 79.8

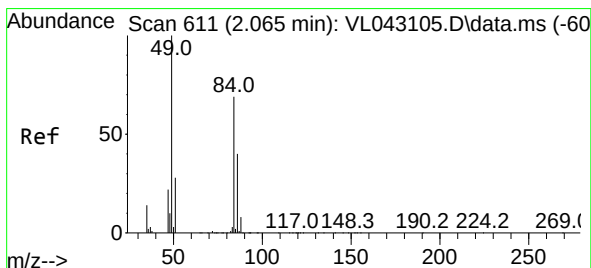
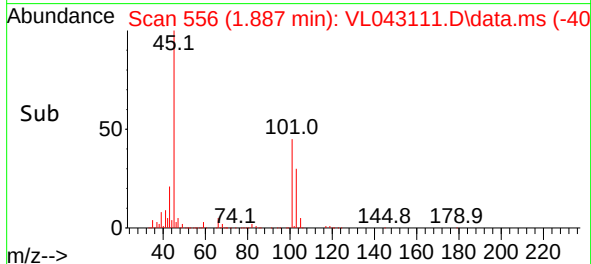
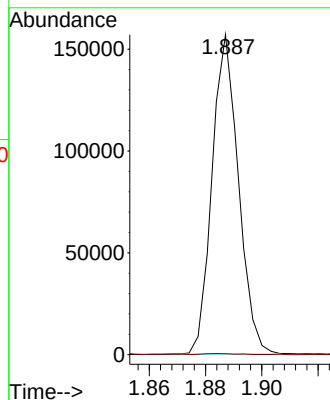
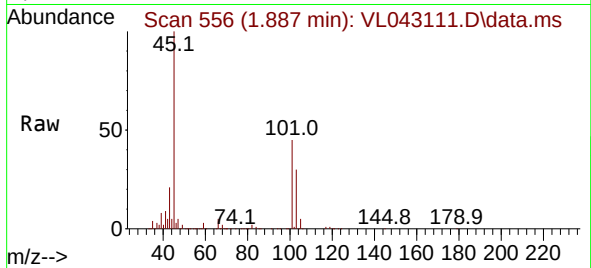




#19
Isopropyl Alcohol
Concen: 12.051 ppbv
RT: 1.887 min Scan# 556
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

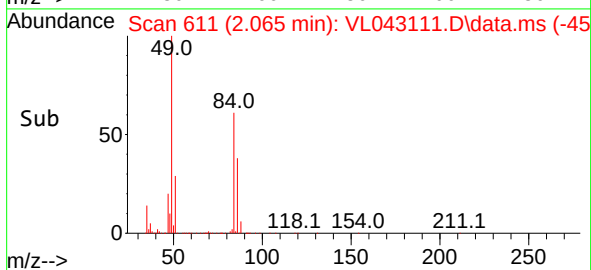
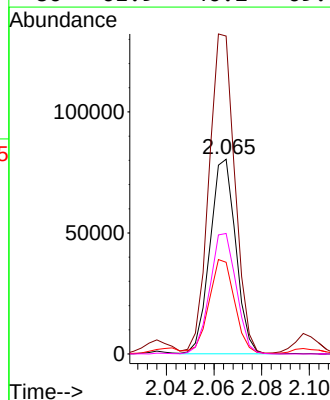
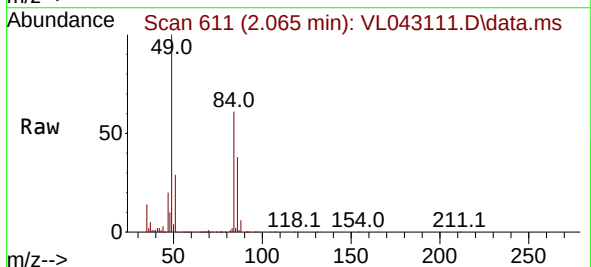
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

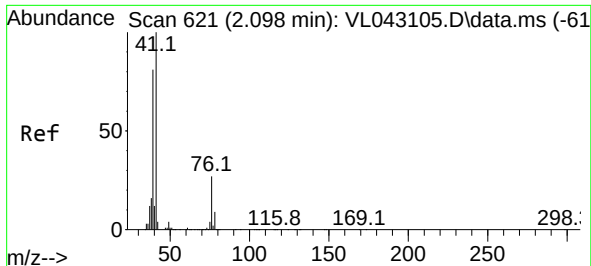
Tgt Ion: 45 Resp: 102035
Ion Ratio Lower Upper
45 100
58 40.2 31.3 46.9



#20
Methylene Chloride
Concen: 11.268 ppbv
RT: 2.065 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 84 Resp: 60549
Ion Ratio Lower Upper
84 100
49 162.4 116.6 175.0
51 46.6 34.8 52.2
86 61.9 46.2 69.4





#21

Allyl Chloride

Concen: 13.105 ppbv

RT: 2.097 min Scan# 61

Delta R.T. -0.000 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

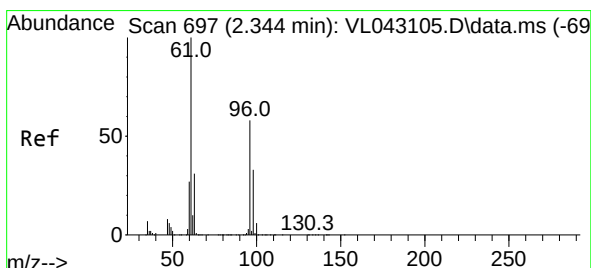
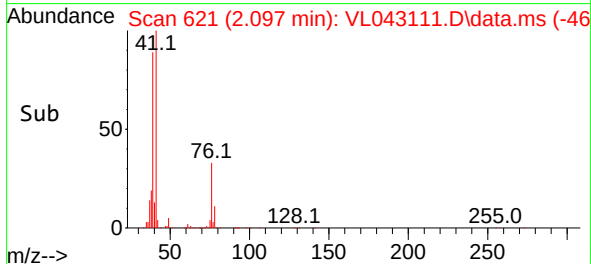
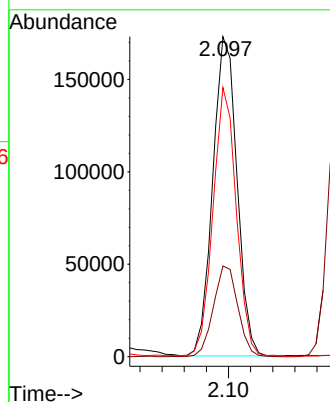
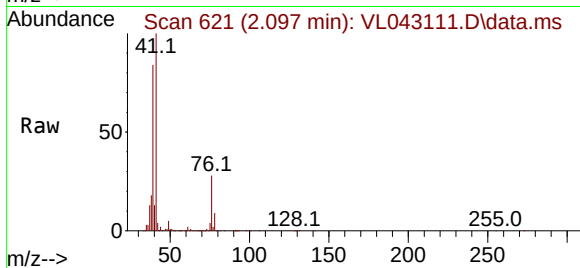
Tgt Ion: 41 Resp: 131539

Ion Ratio Lower Upper

41 100

76 28.8 21.5 32.3

39 80.9 60.8 91.2



#22

trans-1,2-Dichloroethene

Concen: 13.048 ppbv

RT: 2.343 min Scan# 697

Delta R.T. -0.000 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

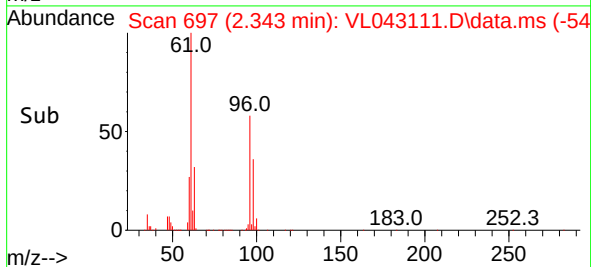
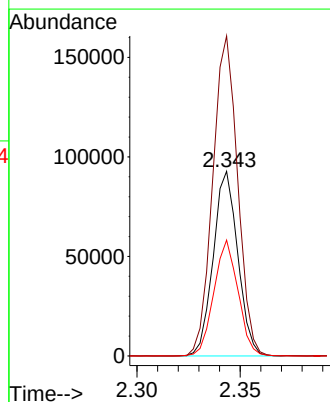
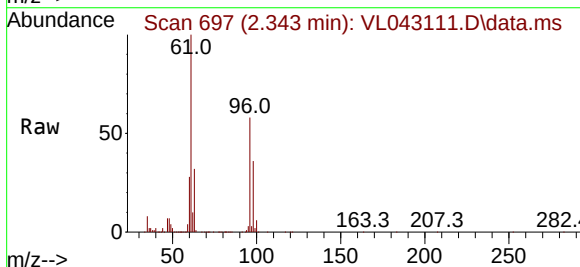
Tgt Ion: 96 Resp: 76780

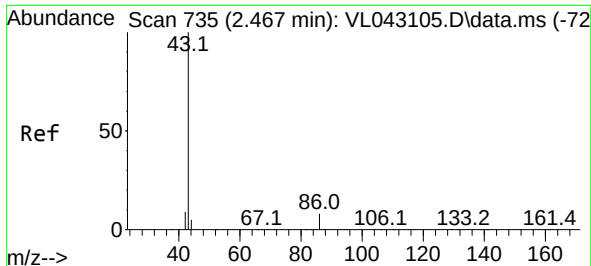
Ion Ratio Lower Upper

96 100

61 173.2 137.0 205.6

98 62.8 45.5 68.3



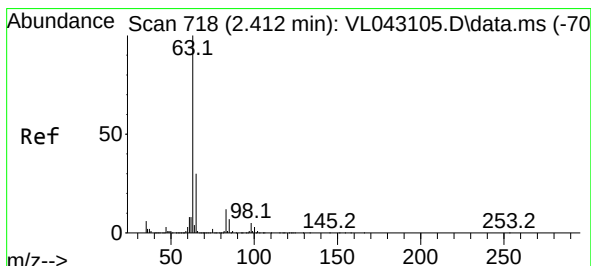
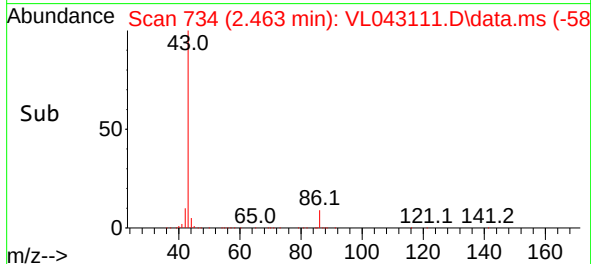
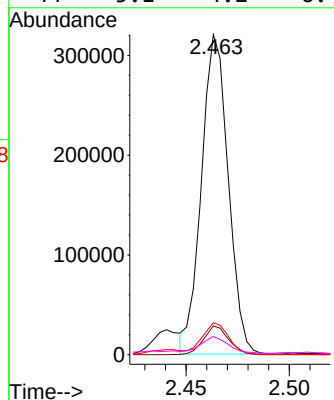
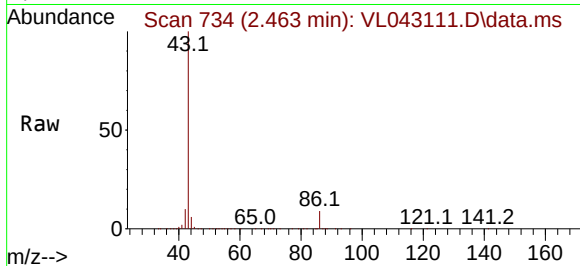


#23
 Vinyl Acetate
 Concen: 14.476 ppbv
 RT: 2.463 min Scan# 718
 Delta R.T. -0.004 min
 Lab File: VL043111.D
 Acq: 14 Oct 2025 14:18

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion: 43 Resp: 288274

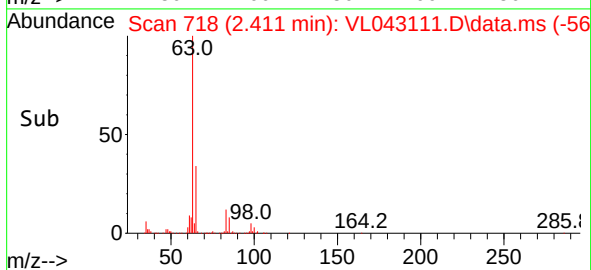
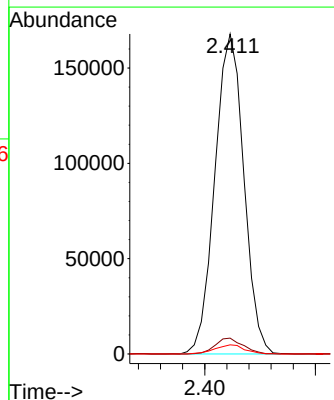
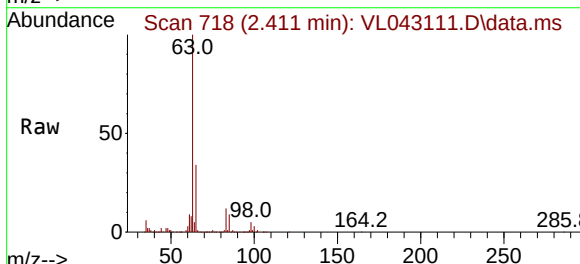
Ion	Ratio	Lower	Upper
43	100		
86	9.0	6.2	9.2
42	10.0	7.6	11.4
44	5.1	4.2	6.4

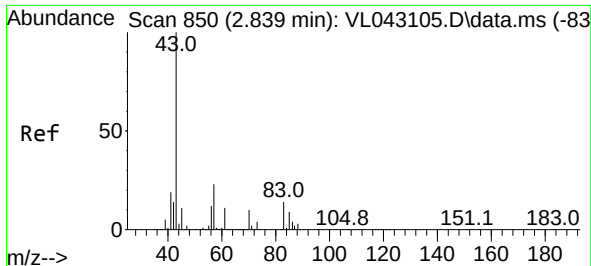


#24
 1,1-Dichloroethane
 Concen: 13.428 ppbv
 RT: 2.411 min Scan# 718
 Delta R.T. -0.000 min
 Lab File: VL043111.D
 Acq: 14 Oct 2025 14:18

Tgt Ion: 63 Resp: 152663

Ion	Ratio	Lower	Upper
63	100		
98	4.9	2.6	7.8
100	2.8	1.5	4.4



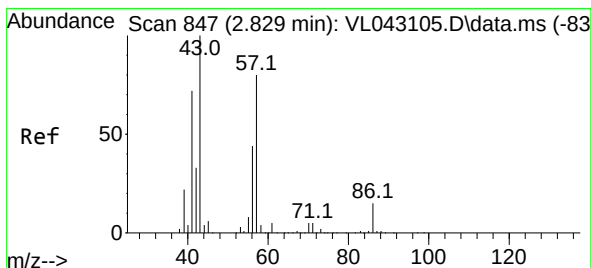
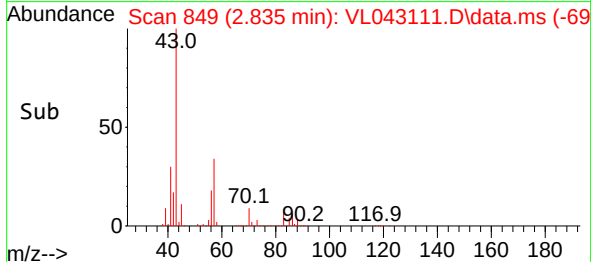
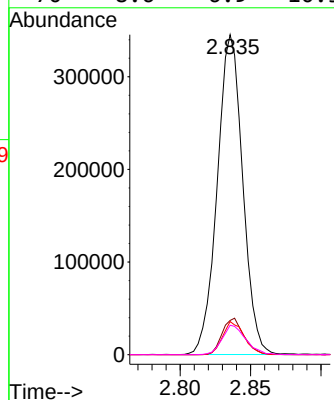
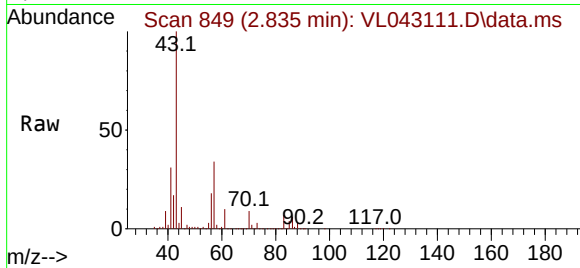


#25
Ethyl Acetate
Concen: 12.884 ppbv
RT: 2.835 min Scan# 849
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 43 Resp: 434350

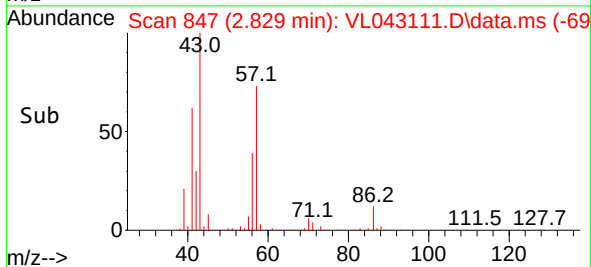
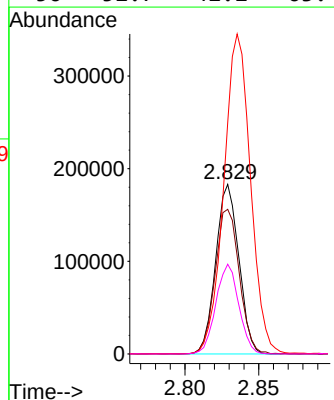
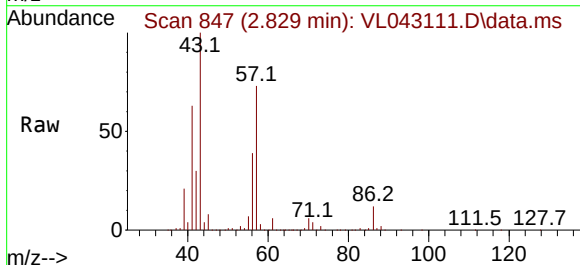
Ion	Ratio	Lower	Upper
43	100		
45	9.8	7.8	11.8
61	8.9	7.0	10.6
70	8.6	6.9	10.3

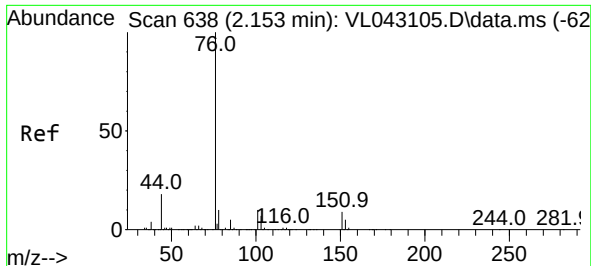


#26
Hexane
Concen: 12.836 ppbv
RT: 2.829 min Scan# 847
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 57 Resp: 199384

Ion	Ratio	Lower	Upper
57	100		
41	89.9	71.4	107.0
43	218.2	178.5	267.7
56	52.7	42.2	63.4

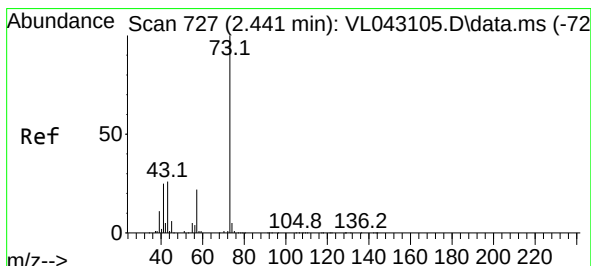
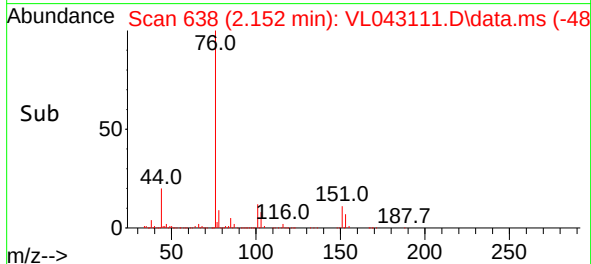
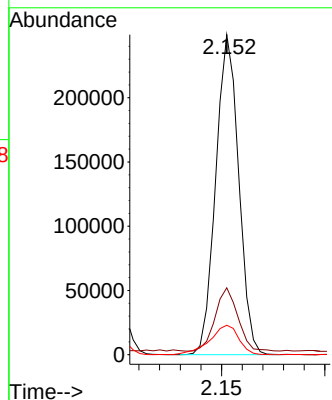
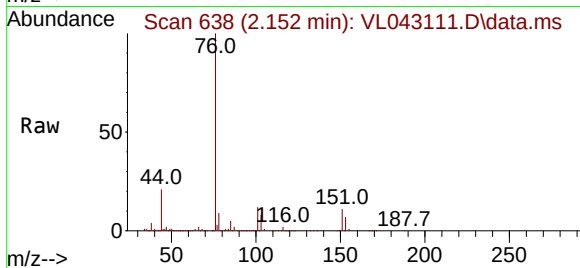




#27
Carbon Disulfide
Concen: 13.522 ppbv
RT: 2.152 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

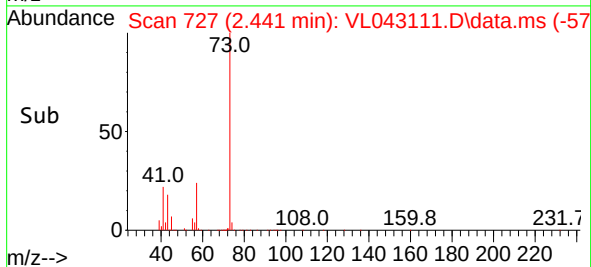
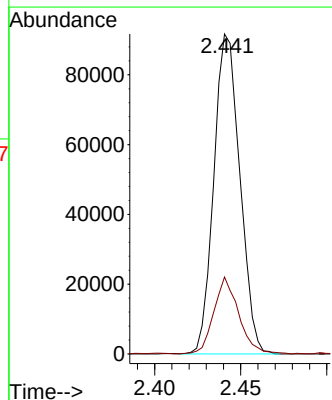
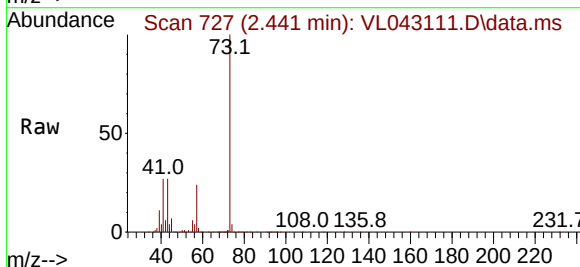
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

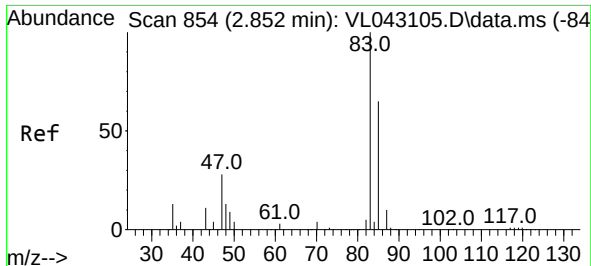
Tgt Ion: 76 Resp: 192452
Ion Ratio Lower Upper
76 100
44 20.6 16.7 25.1
78 11.6 9.3 13.9



#28
Methyl tert-Butyl Ether
Concen: 13.650 ppbv
RT: 2.441 min Scan# 727
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 73 Resp: 96464
Ion Ratio Lower Upper
73 100
57 22.7 20.5 30.7





#29

Chloroform

Concen: 13.425 ppbv

RT: 2.852 min Scan# 81

Delta R.T. -0.000 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

Instrument :

MSVOA_L

ClientSampleId :

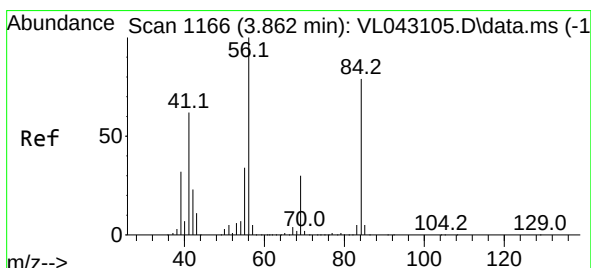
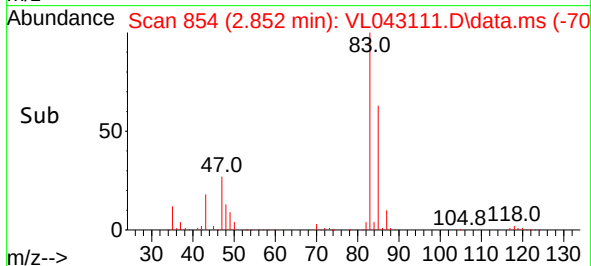
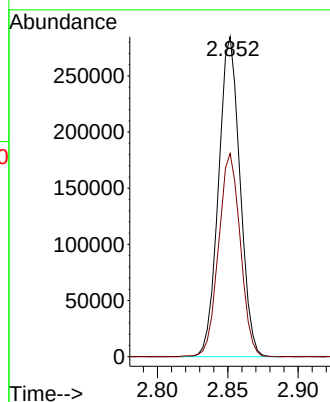
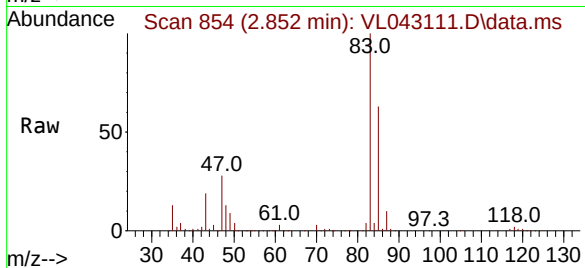
VSTDIC015

Tgt Ion: 83 Resp: 302154

Ion Ratio Lower Upper

83 100

85 63.5 51.8 77.6



#30

Cyclohexane

Concen: 13.133 ppbv

RT: 3.858 min Scan# 1165

Delta R.T. -0.004 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

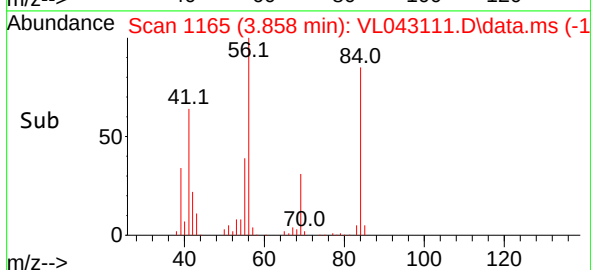
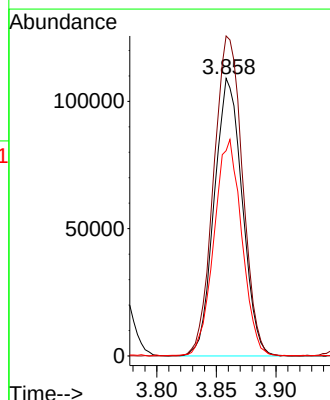
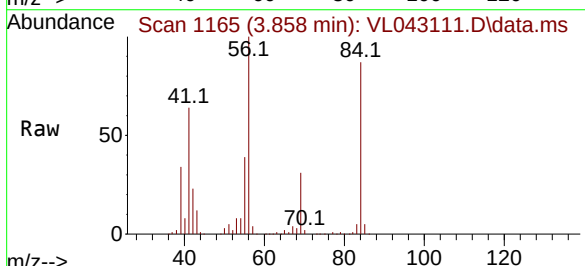
Tgt Ion: 84 Resp: 177947

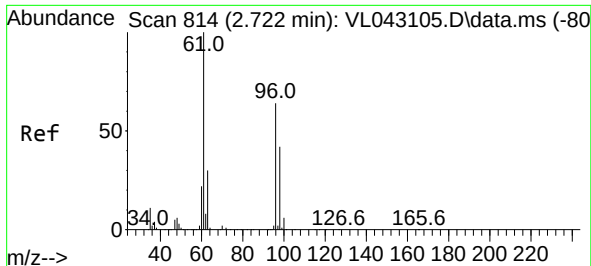
Ion Ratio Lower Upper

84 100

56 119.1 100.9 151.3

41 77.3 63.8 95.6

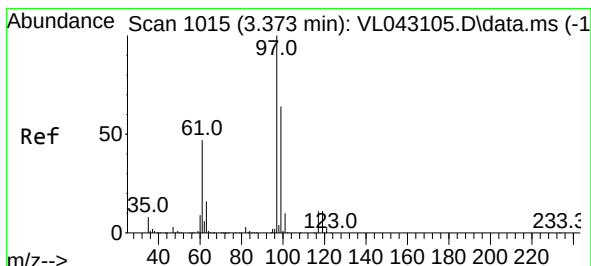
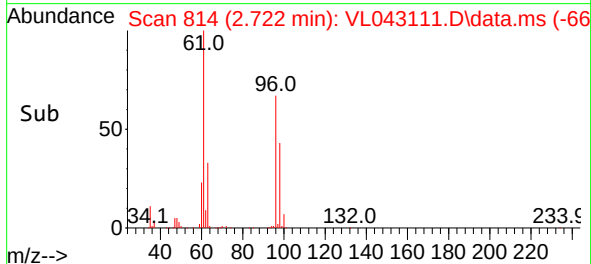
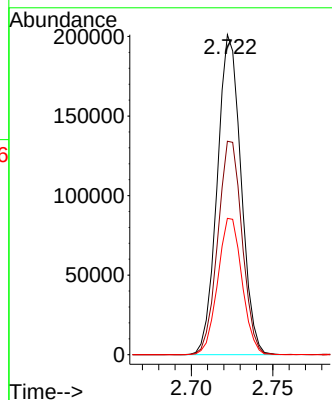
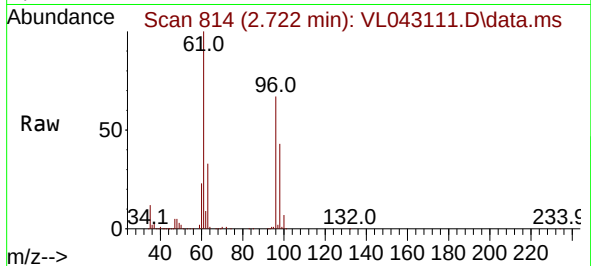




#31
 cis-1,2-Dichloroethene
 Concen: 13.745 ppbv
 RT: 2.722 min Scan# 814
 Delta R.T. -0.000 min
 Lab File: VL043111.D
 Acq: 14 Oct 2025 14:18

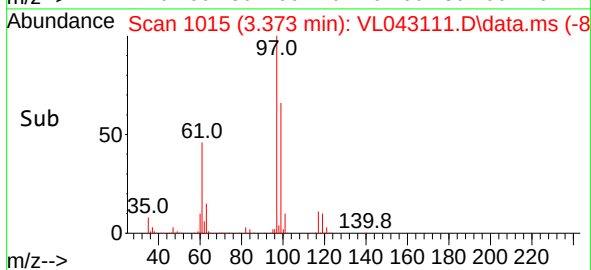
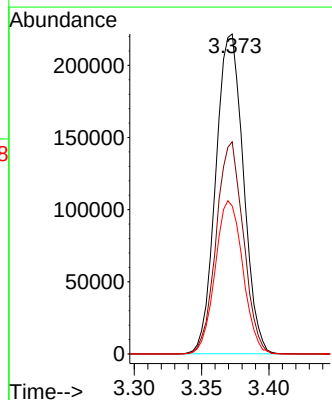
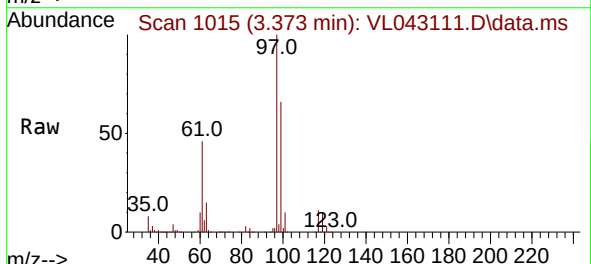
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

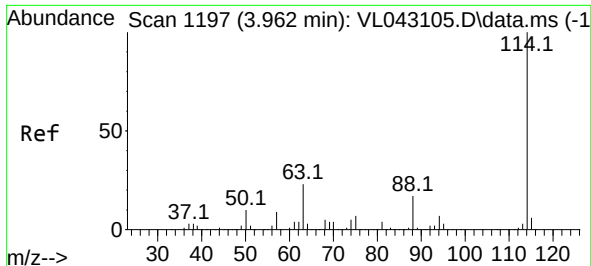
Tgt Ion: 61 Resp: 203888
 Ion Ratio Lower Upper
 61 100
 96 66.7 51.0 76.6
 98 42.6 33.5 50.3



#32
 1,1,1-Trichloroethane
 Concen: 13.500 ppbv
 RT: 3.373 min Scan# 1015
 Delta R.T. -0.000 min
 Lab File: VL043111.D
 Acq: 14 Oct 2025 14:18

Tgt Ion: 97 Resp: 316442
 Ion Ratio Lower Upper
 97 100
 99 65.2 51.3 76.9
 61 48.0 38.4 57.6

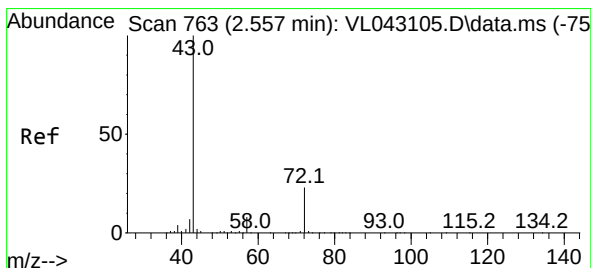
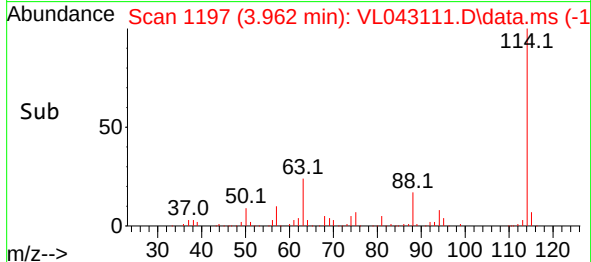
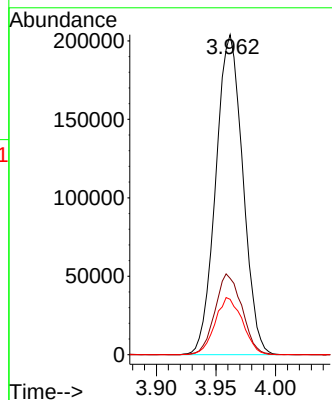
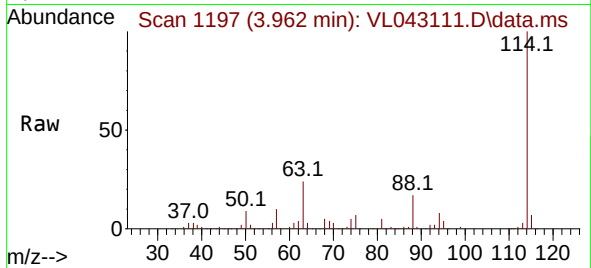




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.962 min Scan# 1197
 Delta R.T. -0.000 min
 Lab File: VL043111.D
 Acq: 14 Oct 2025 14:18

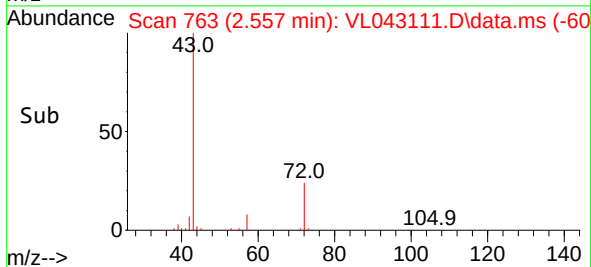
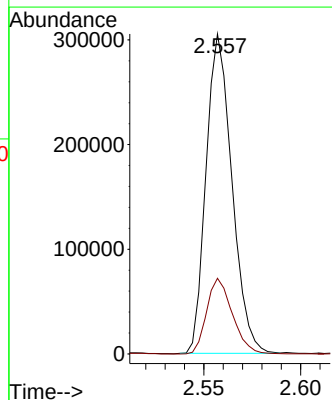
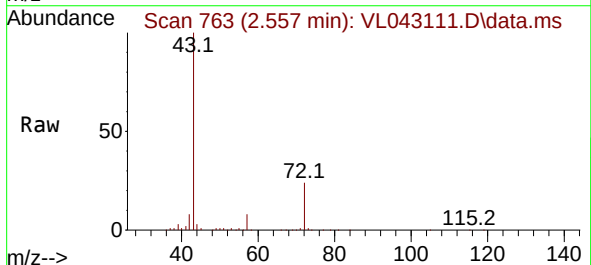
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

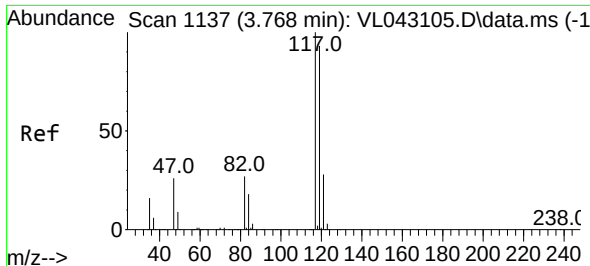
Tgt Ion:114 Resp: 321665
 Ion Ratio Lower Upper
 114 100
 63 25.1 19.3 28.9
 88 18.1 13.9 20.9



#34
 2-Butanone
 Concen: 13.020 ppbv
 RT: 2.557 min Scan# 763
 Delta R.T. -0.000 min
 Lab File: VL043111.D
 Acq: 14 Oct 2025 14:18

Tgt Ion: 43 Resp: 283134
 Ion Ratio Lower Upper
 43 100
 72 23.6 18.4 27.6

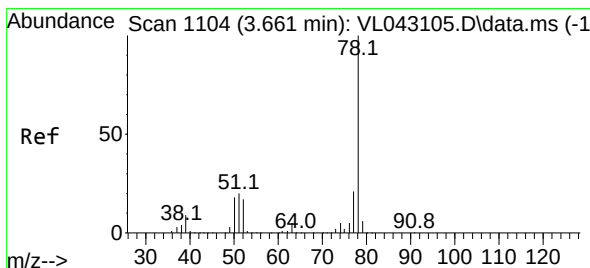
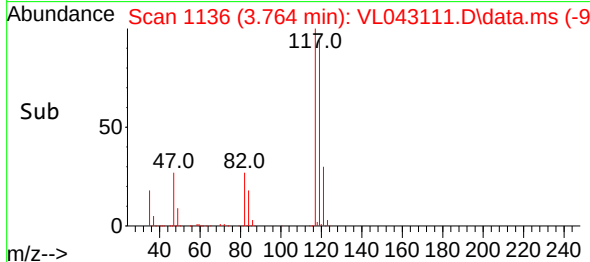
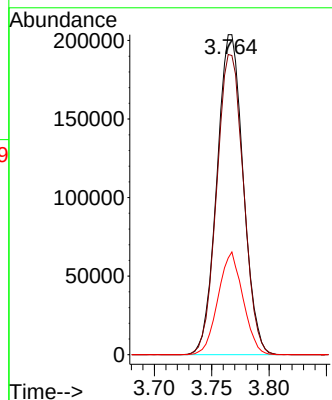
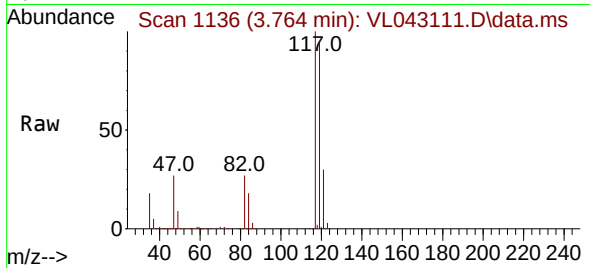




#35
Carbon Tetrachloride
Concen: 14.056 ppbv
RT: 3.764 min Scan# 1136
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

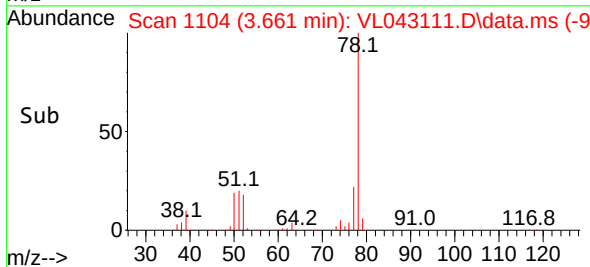
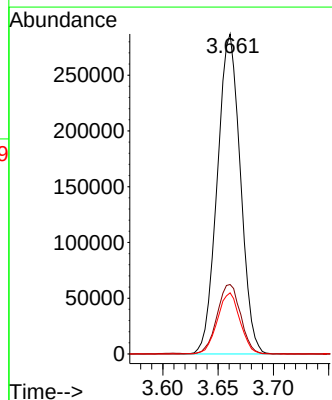
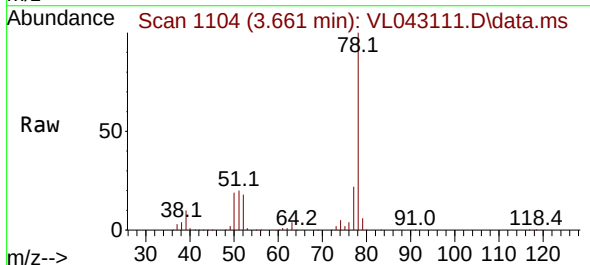
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

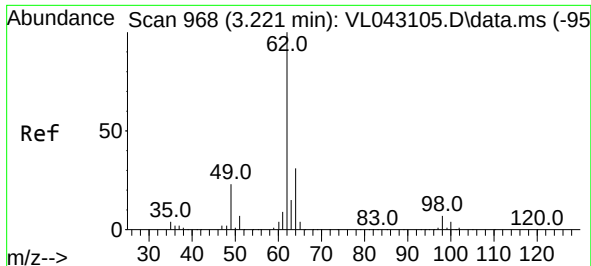
Tgt Ion: 117 Resp: 325078
Ion Ratio Lower Upper
117 100
119 93.8 74.1 111.1
121 30.2 22.2 33.2



#36
Benzene
Concen: 13.725 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 78 Resp: 415823
Ion Ratio Lower Upper
78 100
77 21.6 17.0 25.6
50 19.1 14.6 22.0

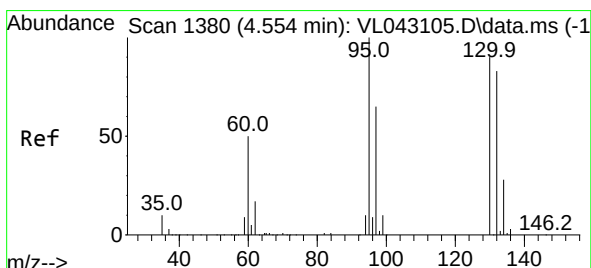
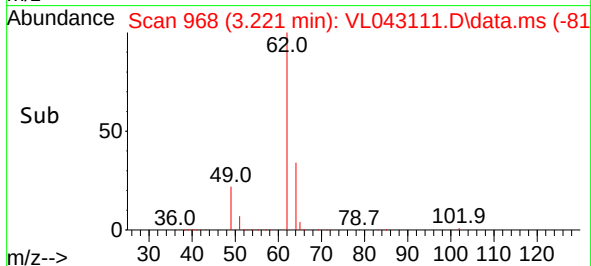
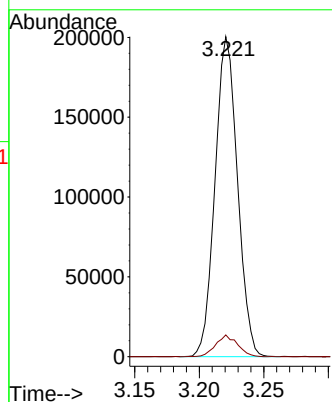
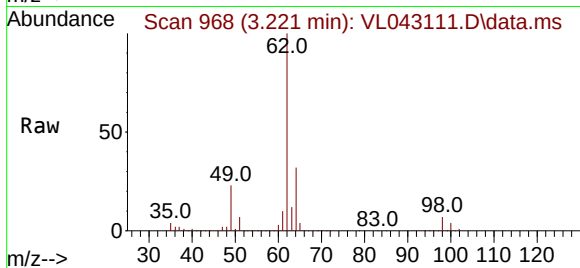




#37
1,2-Dichloroethane
Concen: 13.865 ppbv
RT: 3.221 min Scan# 968
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

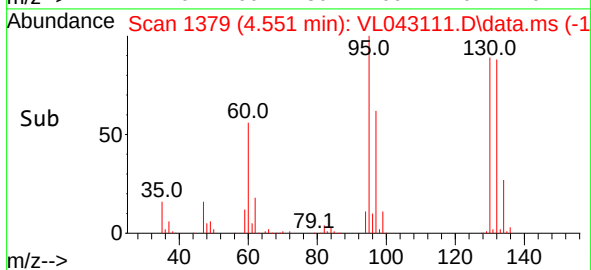
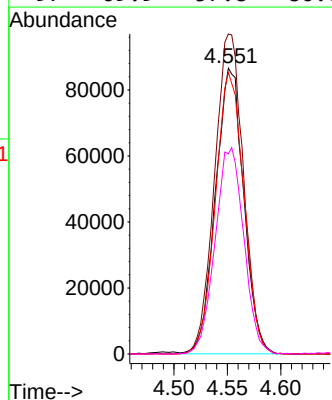
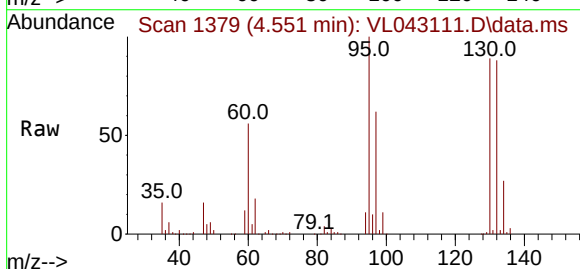
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

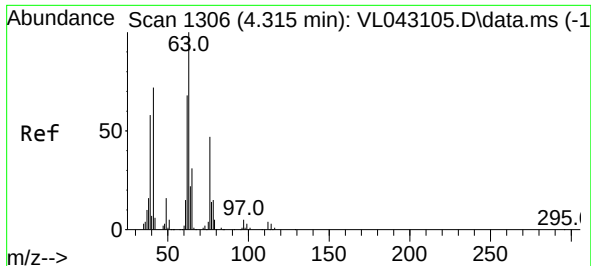
Tgt Ion: 62 Resp: 241983
Ion Ratio Lower Upper
62 100
98 6.6 5.8 8.6



#38
Trichloroethene
Concen: 12.590 ppbv
RT: 4.551 min Scan# 1379
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion:130 Resp: 159136
Ion Ratio Lower Upper
130 100
95 111.8 88.6 133.0
132 98.5 73.4 110.0
97 69.9 57.8 86.6





#39

1,2-Dichloropropane

Concen: 13.274 ppbv

RT: 4.318 min Scan# 11

Delta R.T. 0.003 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

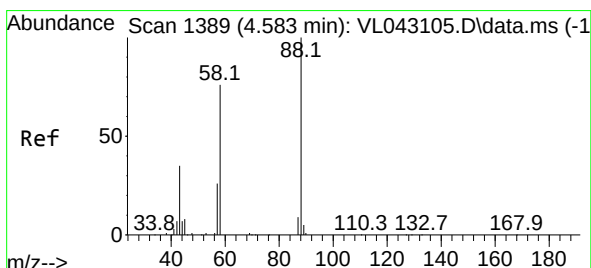
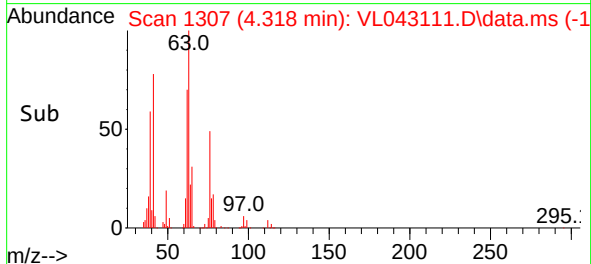
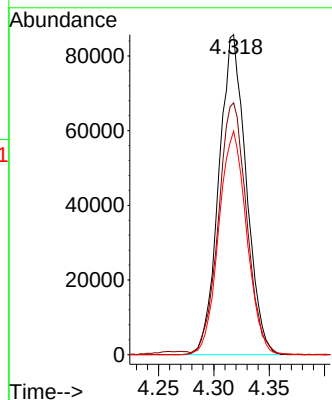
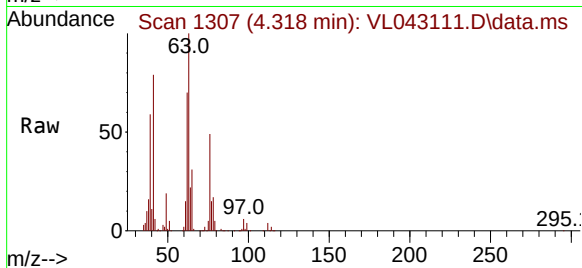
Tgt Ion: 63 Resp: 147155

Ion Ratio Lower Upper

63 100

41 78.4 58.0 87.0

62 69.9 54.7 82.1



#40

1,4-Dioxane

Concen: 13.180 ppbv

RT: 4.580 min Scan# 1388

Delta R.T. -0.004 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

Tgt Ion: 88 Resp: 65323

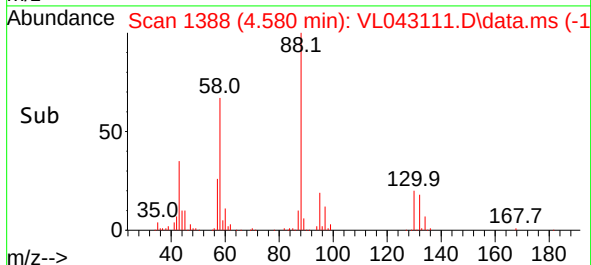
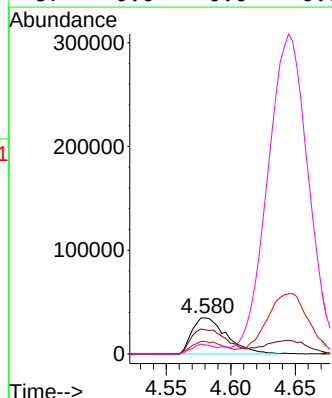
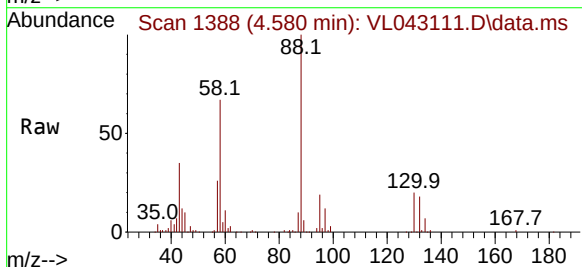
Ion Ratio Lower Upper

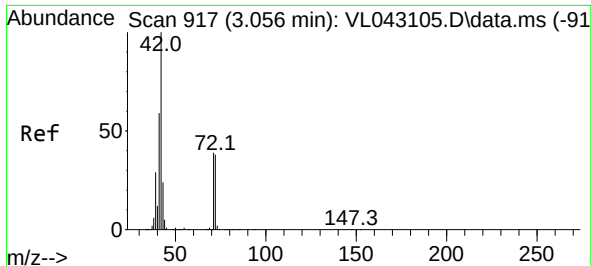
88 100

58 69.1 61.1 91.7

43 30.0 24.0 36.0

57 0.0 0.0 0.0

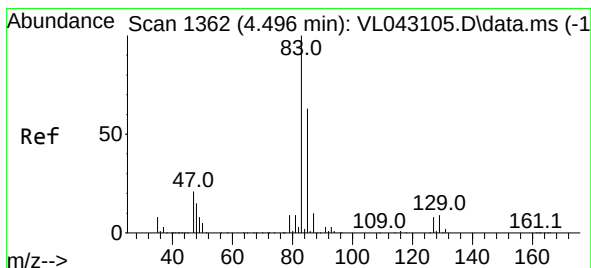
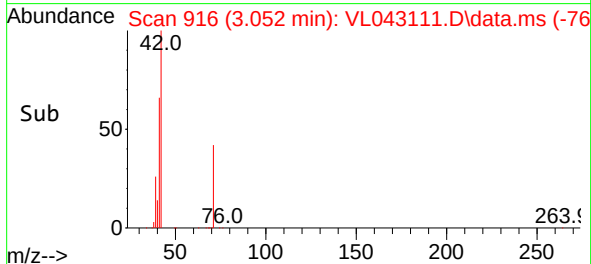
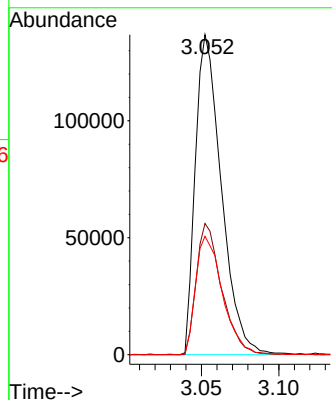
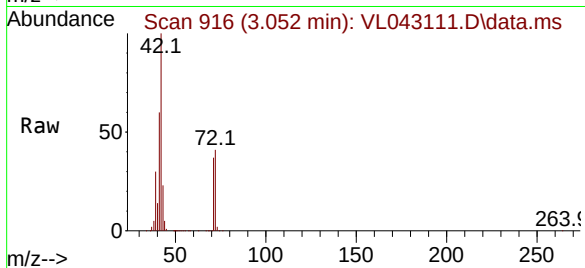




#41
Tetrahydrofuran
Concen: 13.200 ppbv
RT: 3.052 min Scan# 917
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

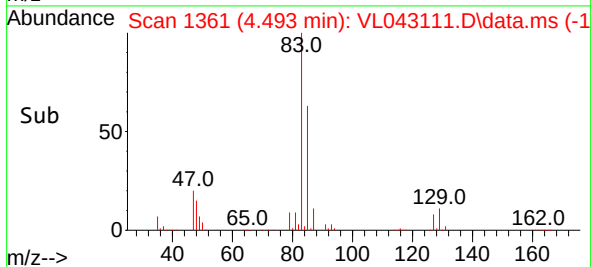
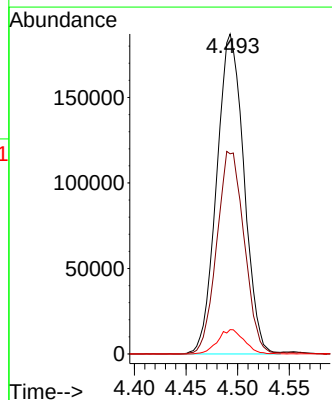
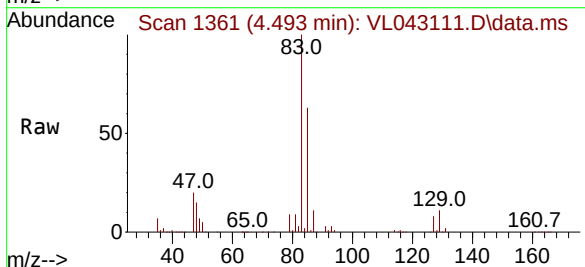
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

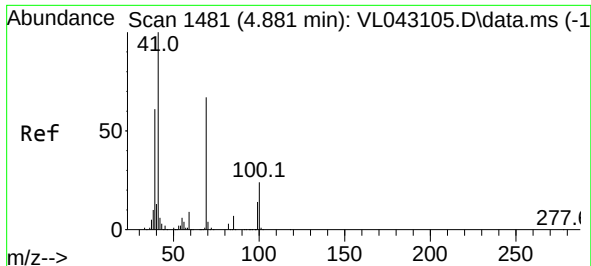
Tgt Ion: 42 Resp: 160247
Ion Ratio Lower Upper
42 100
72 40.0 31.3 46.9
71 38.2 30.4 45.6



#42
Bromodichloromethane
Concen: 14.234 ppbv
RT: 4.493 min Scan# 1361
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 83 Resp: 343817
Ion Ratio Lower Upper
83 100
85 62.5 50.6 75.8
127 7.6 6.3 9.5

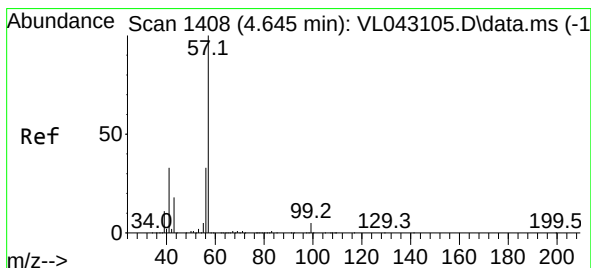
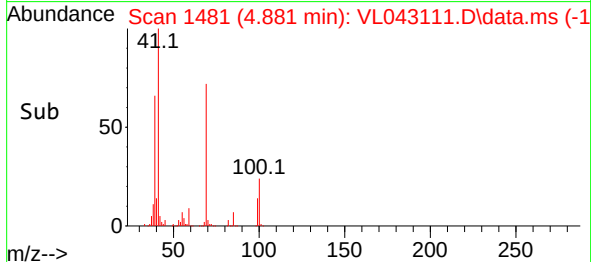
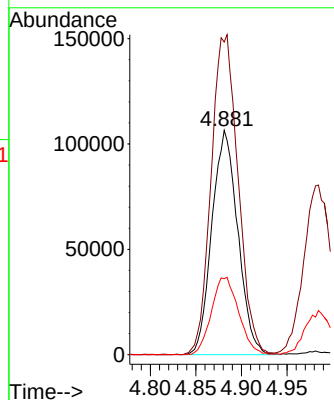
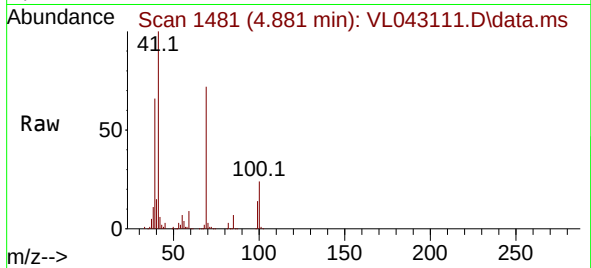




#43
Methyl Methacrylate
Concen: 13.633 ppbv
RT: 4.881 min Scan# 1481
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

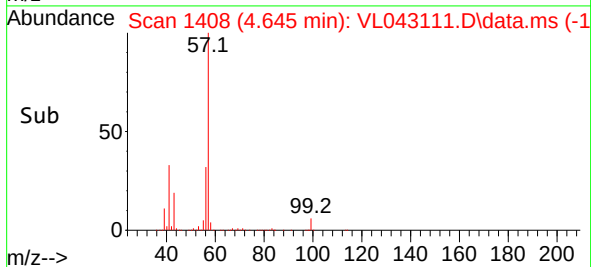
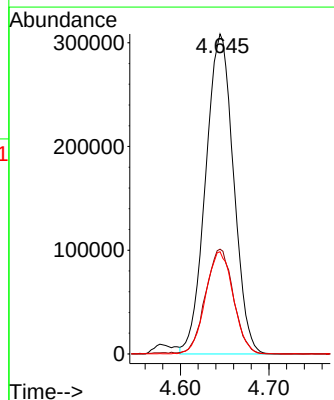
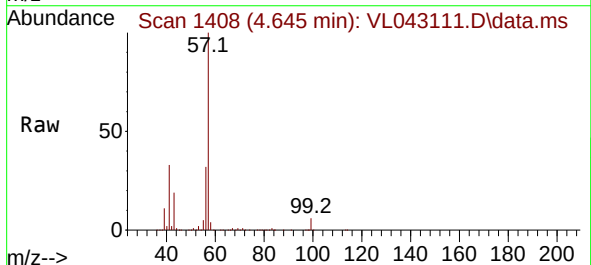
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

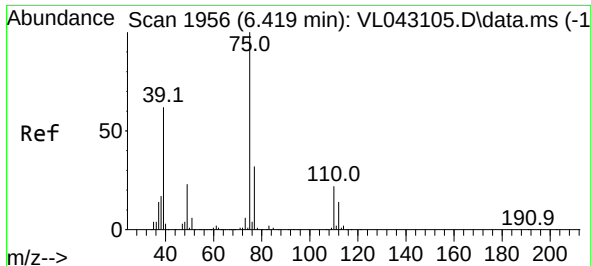
Tgt Ion: 69 Resp: 210756
Ion Ratio Lower Upper
69 100
41 148.2 120.5 180.7
100 36.3 29.0 43.4



#44
2,2,4-Trimethylpentane
Concen: 13.340 ppbv
RT: 4.645 min Scan# 1408
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 57 Resp: 675770
Ion Ratio Lower Upper
57 100
41 33.2 26.3 39.5
56 31.9 25.9 38.9

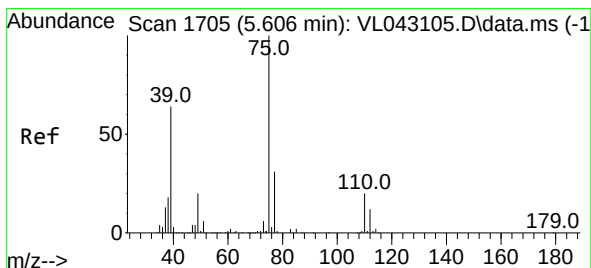
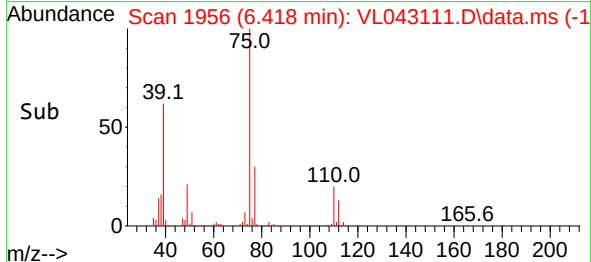
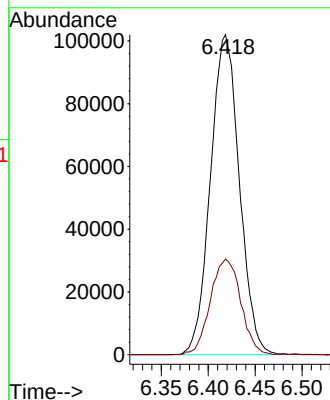
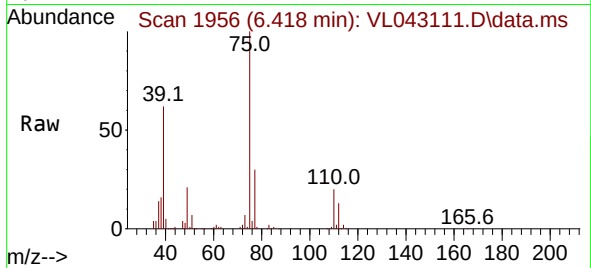




#45
 t-1,3-Dichloropropene
 Concen: 14.142 ppbv
 RT: 6.418 min Scan# 1956
 Delta R.T. -0.000 min
 Lab File: VL043111.D
 Acq: 14 Oct 2025 14:18

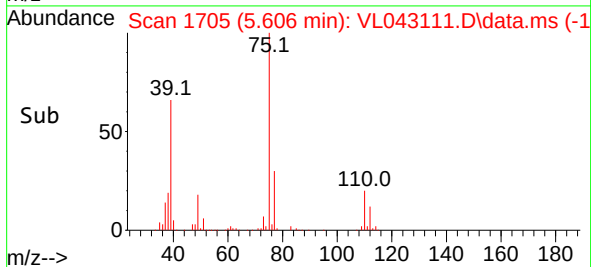
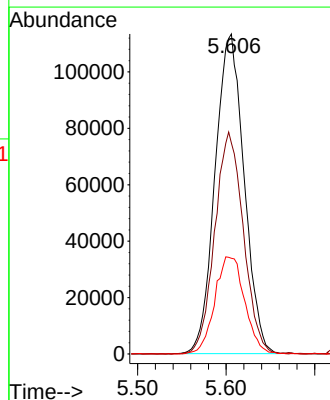
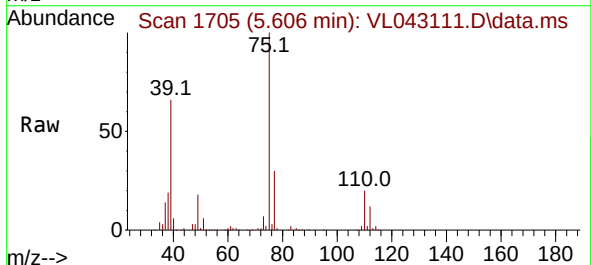
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

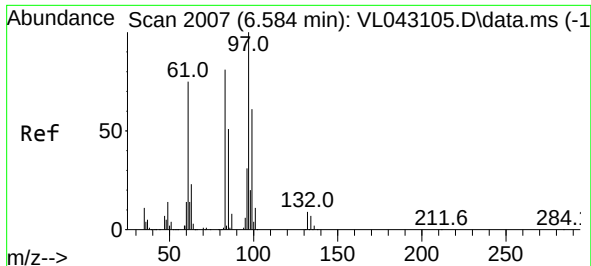
Tgt Ion: 75 Resp: 218386
 Ion Ratio Lower Upper
 75 100
 77 29.9 25.4 38.2



#46
 cis-1,3-Dichloropropene
 Concen: 14.018 ppbv
 RT: 5.606 min Scan# 1705
 Delta R.T. -0.000 min
 Lab File: VL043111.D
 Acq: 14 Oct 2025 14:18

Tgt Ion: 75 Resp: 258355
 Ion Ratio Lower Upper
 75 100
 39 65.8 51.0 76.6
 77 29.9 25.0 37.4





#47

1,1,2-Trichloroethane

Concen: 13.638 ppbv

RT: 6.583 min Scan# 2007

Delta R.T. -0.000 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 97 Resp: 163113

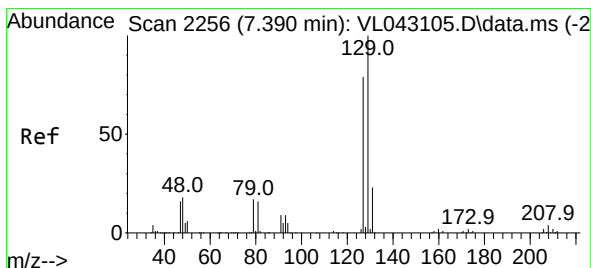
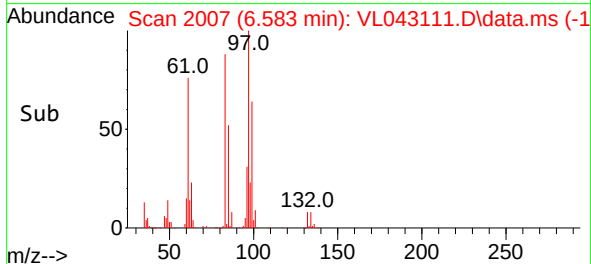
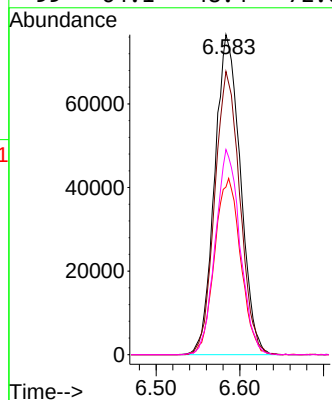
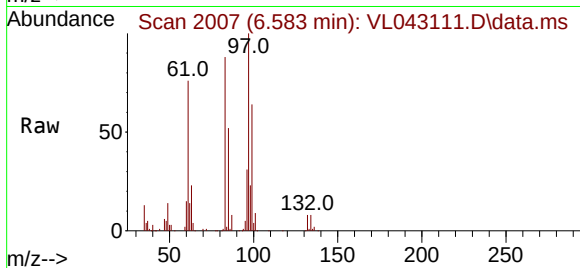
Ion Ratio Lower Upper

97 100

83 88.4 64.6 96.8

85 52.4 40.6 60.8

99 64.1 48.4 72.6



#48

Dibromochloromethane

Concen: 14.051 ppbv

RT: 7.393 min Scan# 2257

Delta R.T. 0.003 min

Lab File: VL043111.D

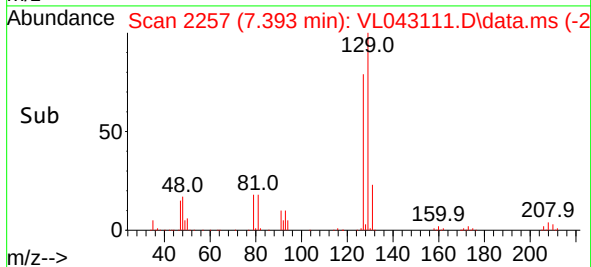
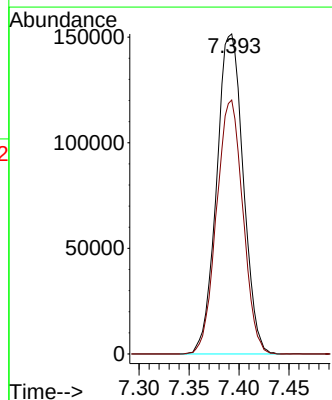
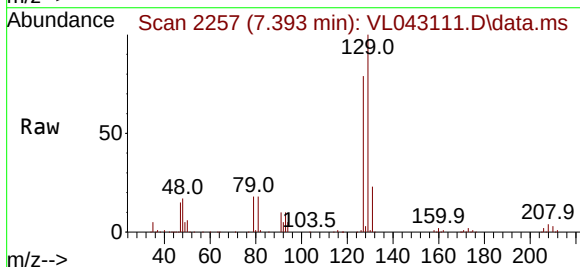
Acq: 14 Oct 2025 14:18

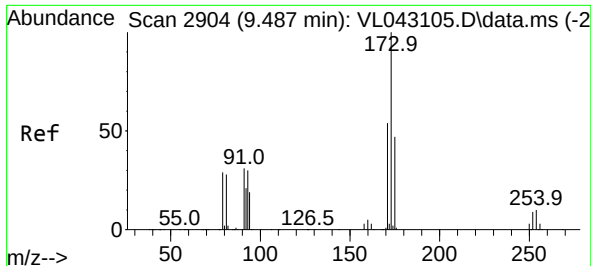
Tgt Ion: 129 Resp: 280993

Ion Ratio Lower Upper

129 100

127 78.6 39.3 117.9

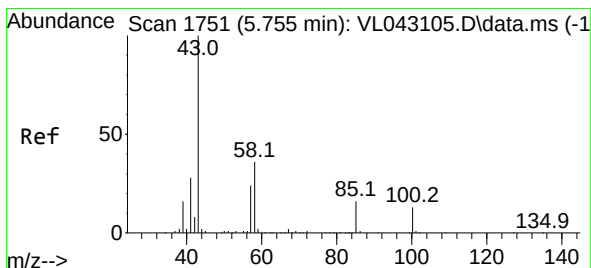
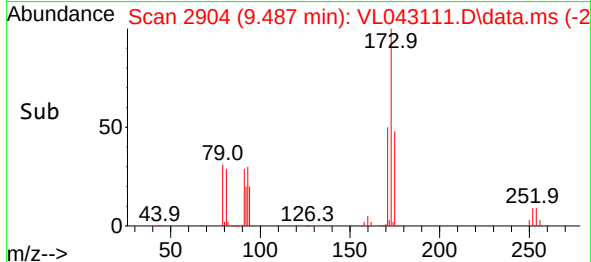
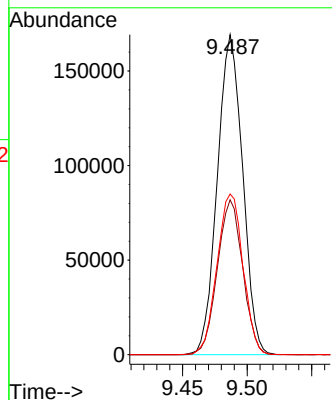
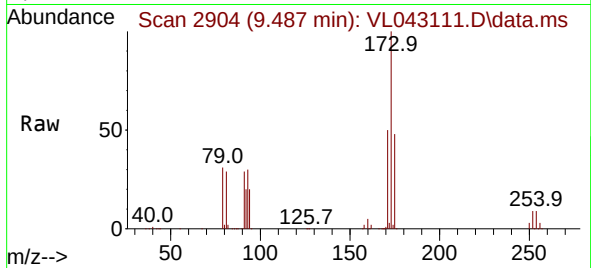




#49
Bromoform
Concen: 14.184 ppbv
RT: 9.487 min Scan# 2904
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

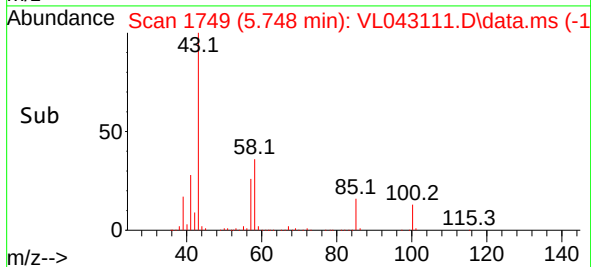
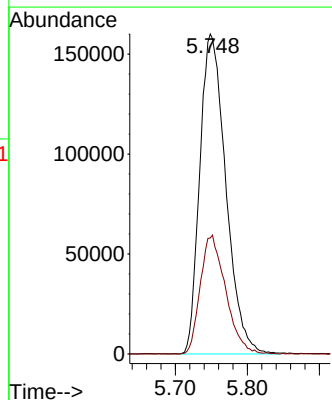
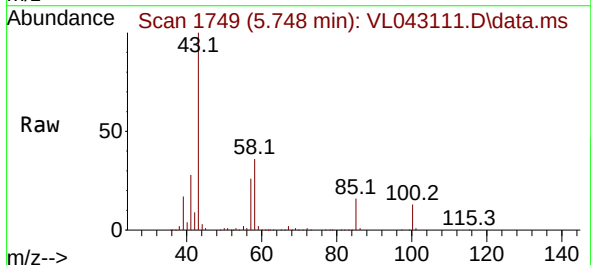
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

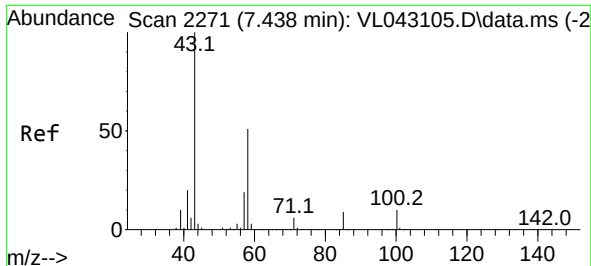
Tgt Ion:173 Resp: 230561
Ion Ratio Lower Upper
173 100
175 48.5 38.8 58.2
171 51.7 41.7 62.5



#50
4-Methyl-2-Pentanone
Concen: 13.396 ppbv
RT: 5.748 min Scan# 1749
Delta R.T. -0.007 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 43 Resp: 401849
Ion Ratio Lower Upper
43 100
58 36.3 29.1 43.7

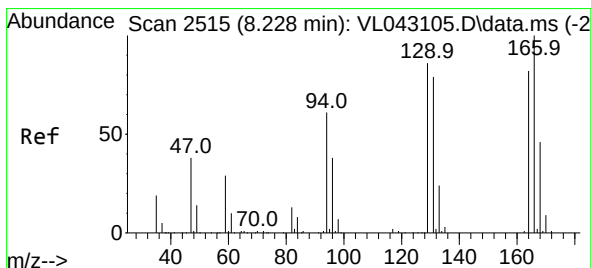
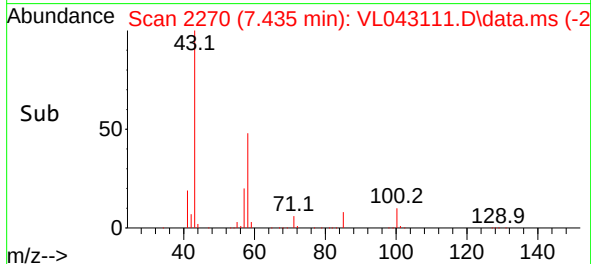
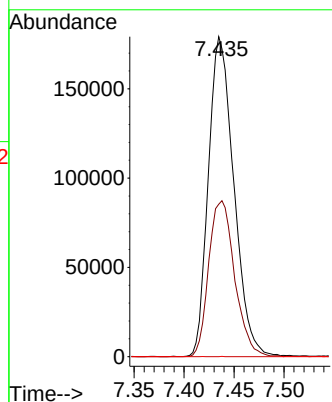
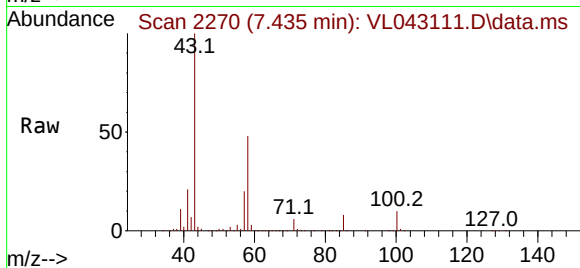




#51
2-Hexanone
Concen: 14.176 ppbv
RT: 7.435 min Scan# 21
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

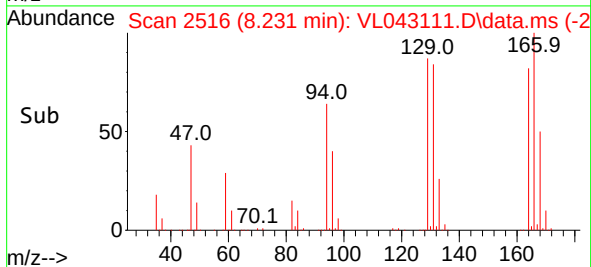
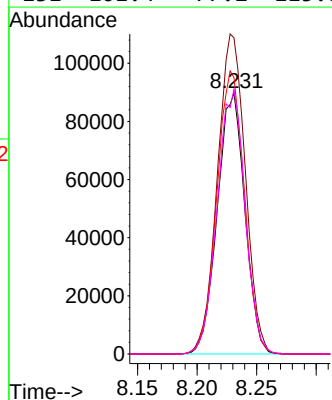
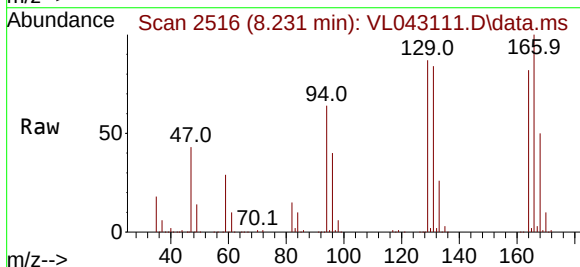
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

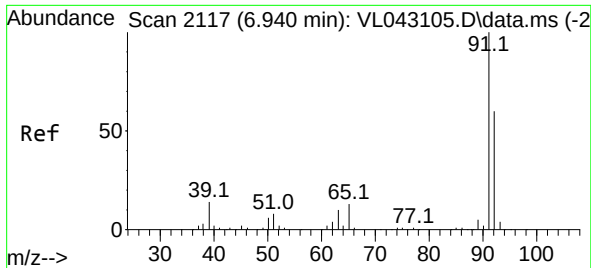
Tgt Ion: 43 Resp: 317288
Ion Ratio Lower Upper
43 100
58 49.8 40.4 60.6
98 0.0 0.1 0.1#



#52
Tetrachloroethene
Concen: 13.177 ppbv
RT: 8.231 min Scan# 2516
Delta R.T. 0.003 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 164 Resp: 143954
Ion Ratio Lower Upper
164 100
166 121.3 97.6 146.4
129 106.0 84.5 126.7
131 101.4 77.2 115.8

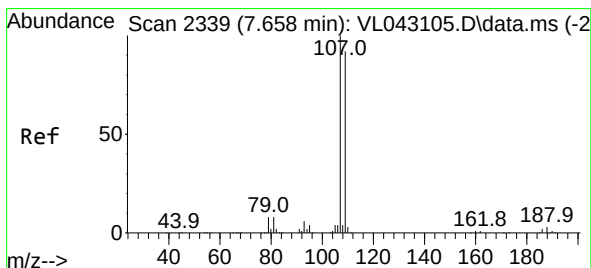
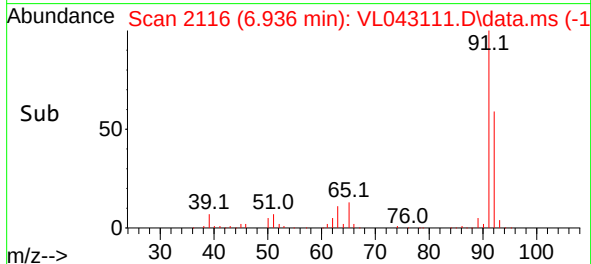
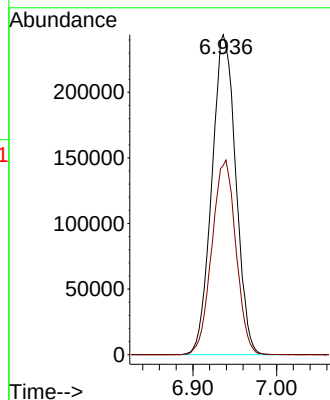
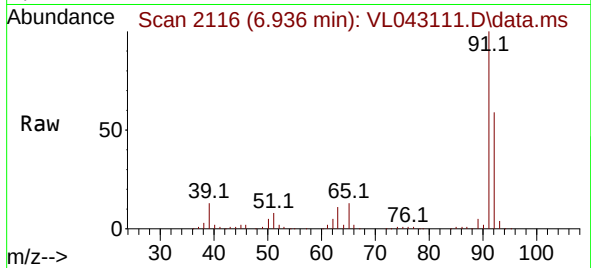




#53
Toluene
Concen: 13.457 ppbv
RT: 6.936 min Scan# 2117
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

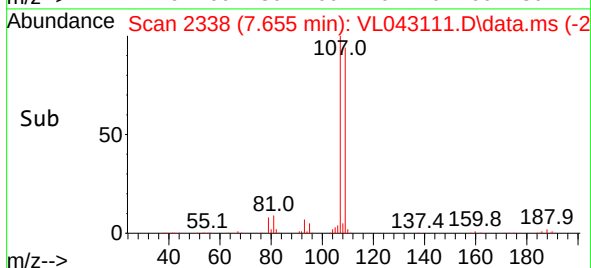
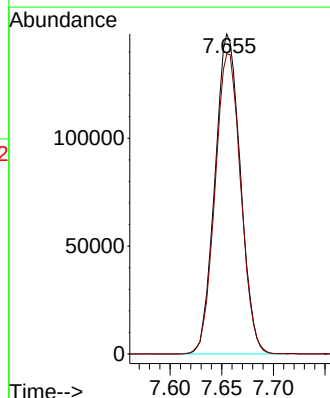
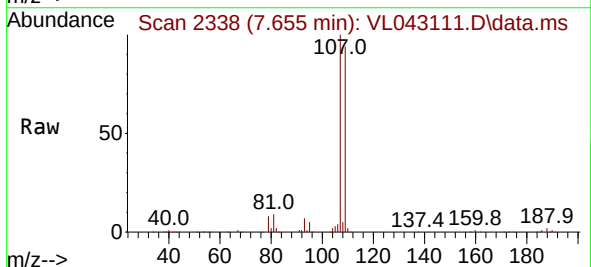
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

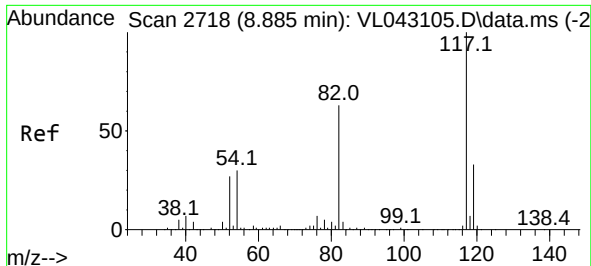
Tgt Ion: 91 Resp: 483870
Ion Ratio Lower Upper
91 100
92 61.1 48.8 73.2



#54
1,2-Dibromoethane
Concen: 13.461 ppbv
RT: 7.655 min Scan# 2338
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 107 Resp: 254024
Ion Ratio Lower Upper
107 100
109 93.8 73.4 110.2

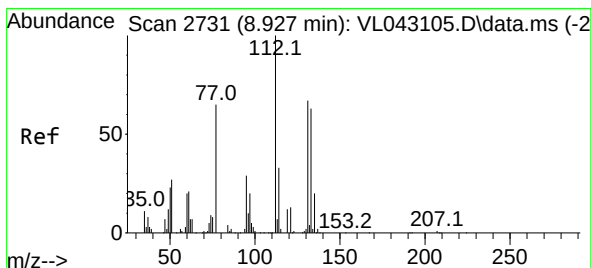
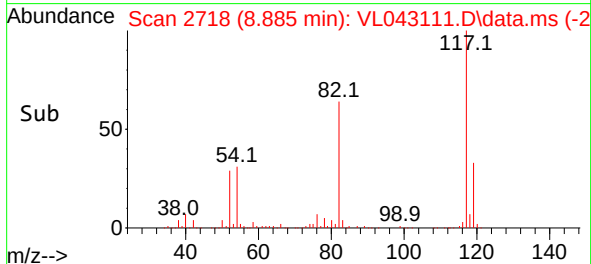
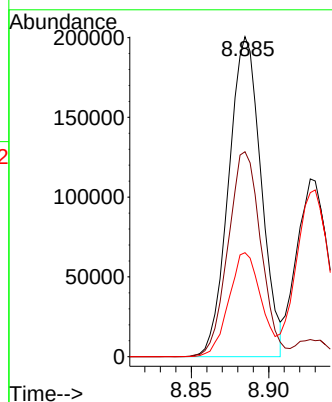
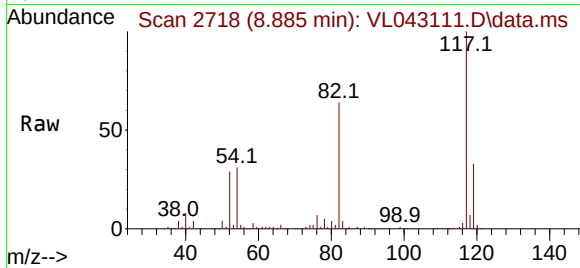




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

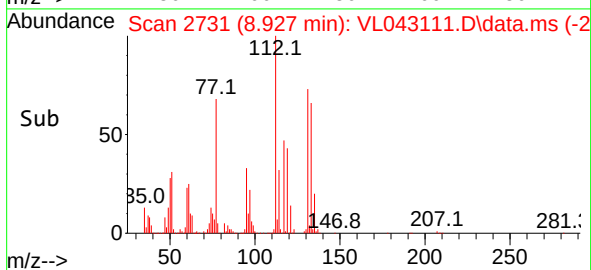
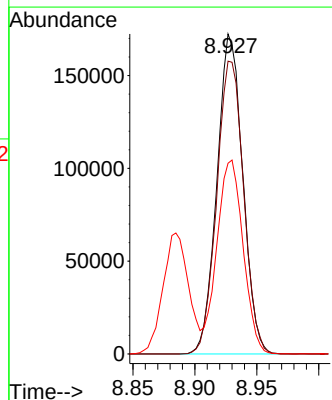
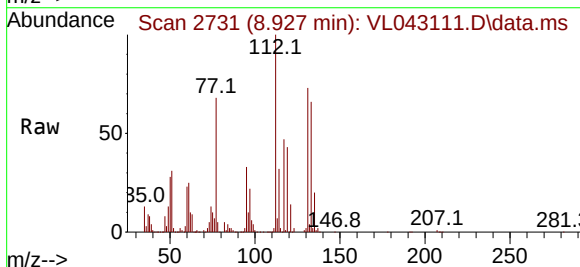
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

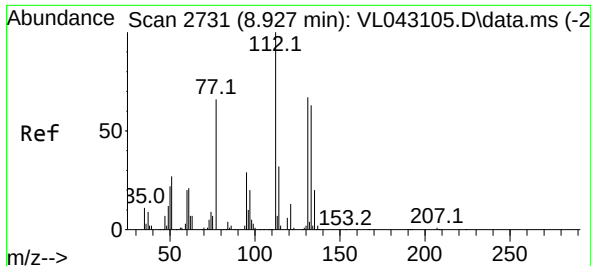
Tgt Ion:117 Resp: 292542
Ion Ratio Lower Upper
117 100
82 70.2 53.8 80.8
119 33.1 25.4 38.0



#56
1,1,1,2-Tetrachloroethane
Concen: 13.573 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion:131 Resp: 250303
Ion Ratio Lower Upper
131 100
133 95.1 75.7 113.5
119 61.9 50.6 76.0

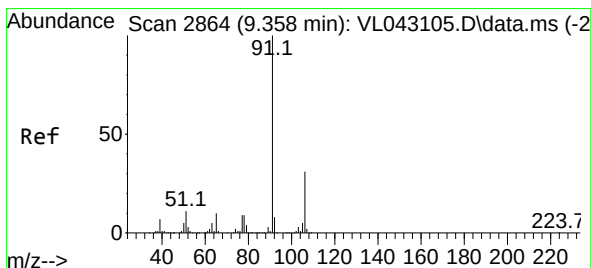
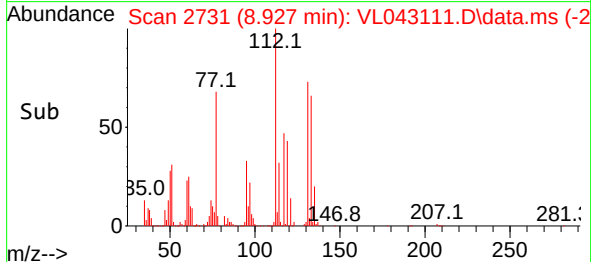
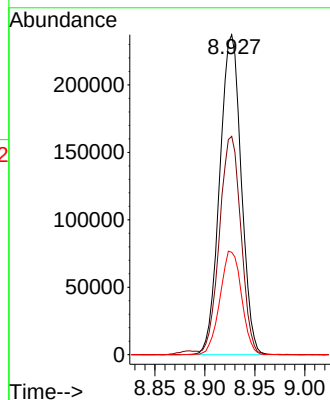
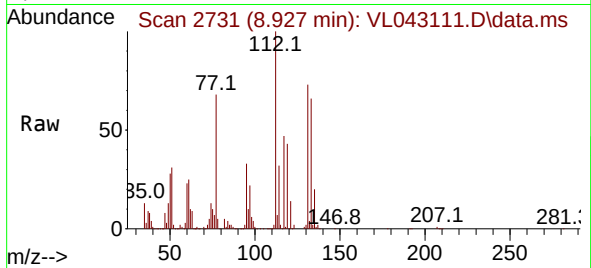




#57
Chlorobenzene
Concen: 12.983 ppbv
RT: 8.927 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

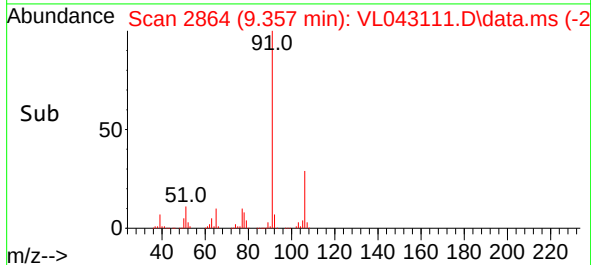
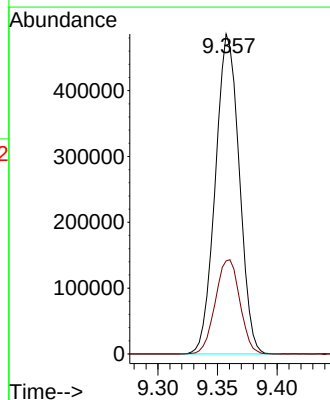
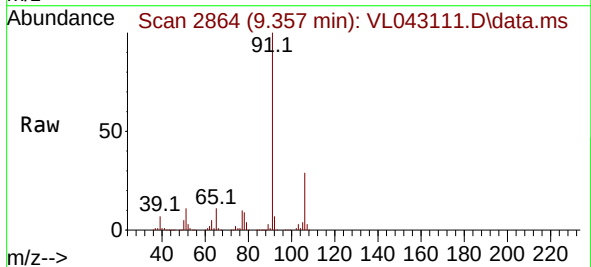
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

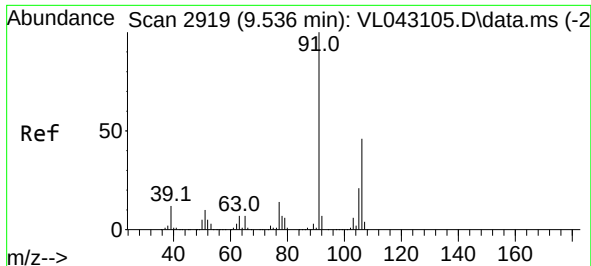
Tgt Ion:112 Resp: 355301
Ion Ratio Lower Upper
112 100
77 68.2 53.3 79.9
114 32.0 29.3 35.8



#58
Ethyl Benzene
Concen: 13.375 ppbv
RT: 9.357 min Scan# 2864
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 91 Resp: 676918
Ion Ratio Lower Upper
91 100
106 29.1 24.8 37.2





#59

m/p-Xylene

Concen: 15.622 ppbv

RT: 9.535 min Scan# 2919

Delta R.T. -0.000 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

Instrument :

MSVOA_L

ClientSampleId :

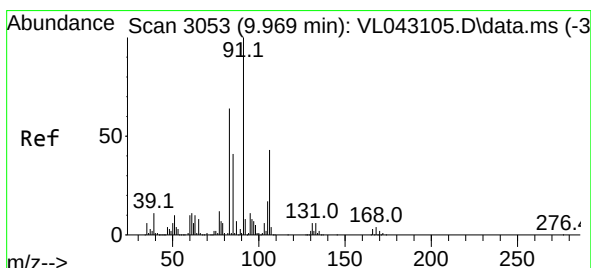
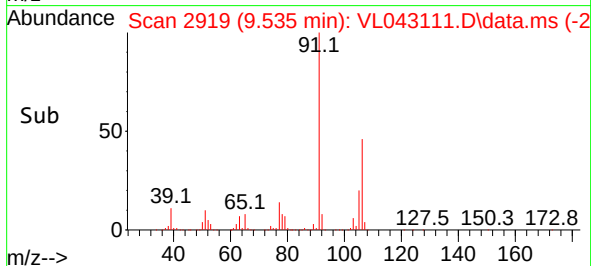
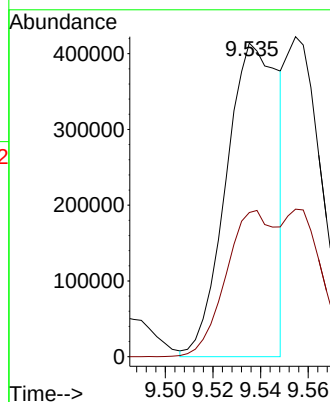
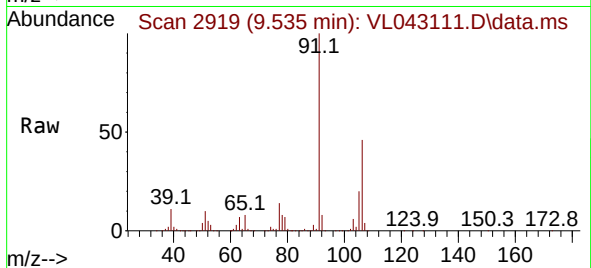
VSTDIC015

Tgt Ion: 91 Resp: 626074

Ion Ratio Lower Upper

91 100

106 0.0 38.0 57.0#



#60

o-Xylene

Concen: 13.063 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. -0.004 min

Lab File: VL043111.D

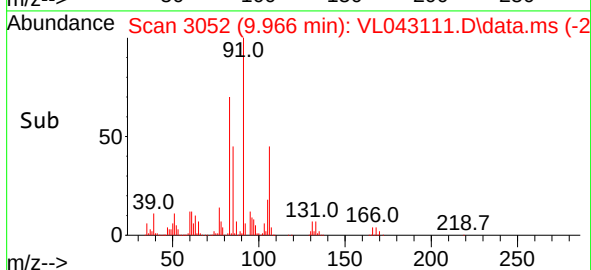
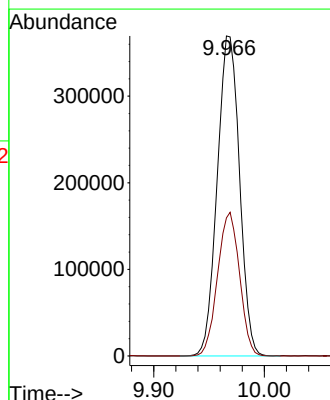
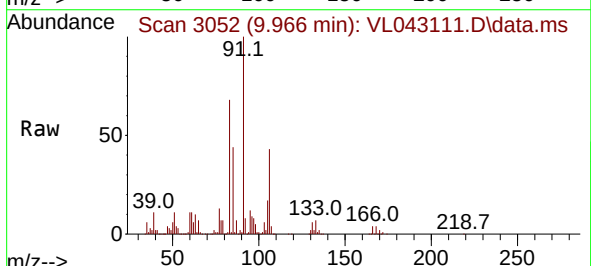
Acq: 14 Oct 2025 14:18

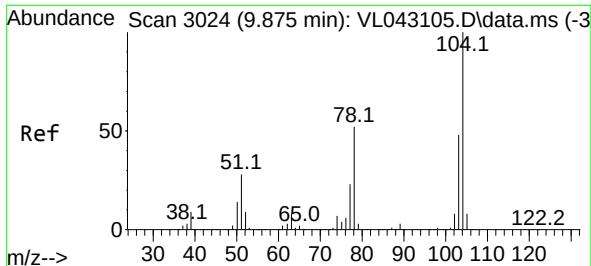
Tgt Ion: 91 Resp: 516660

Ion Ratio Lower Upper

91 100

106 44.3 21.9 65.8

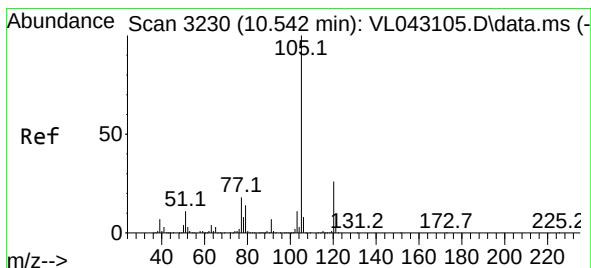
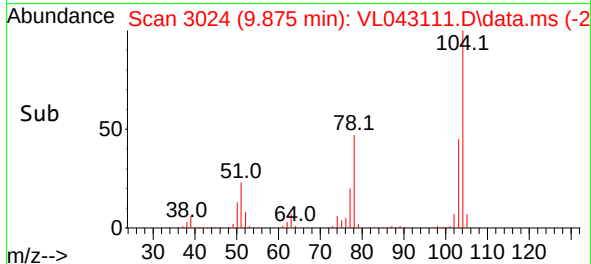
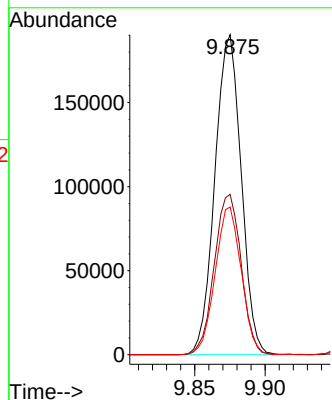
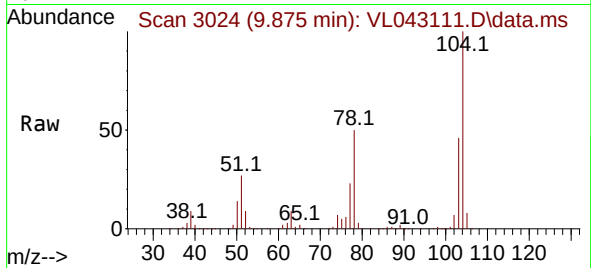




#61
Styrene
Concen: 13.867 ppbv
RT: 9.875 min Scan# 3024
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

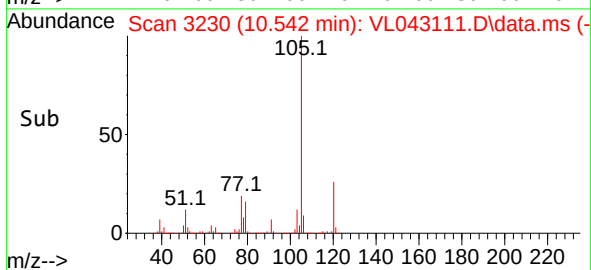
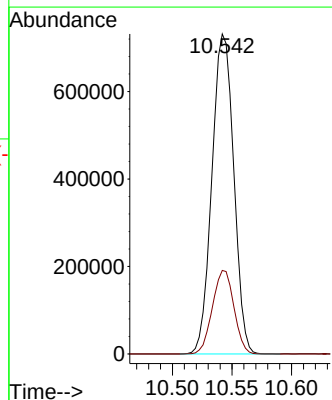
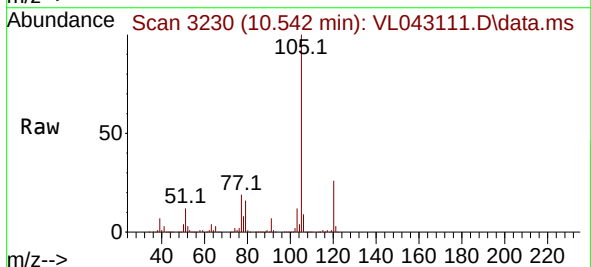
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

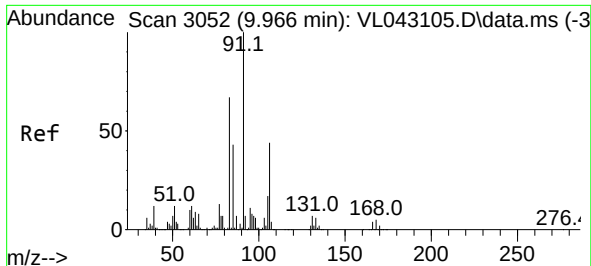
Tgt Ion:104 Resp: 247585
Ion Ratio Lower Upper
104 100
78 51.2 40.2 60.2
103 46.0 36.9 55.3



#62
Isopropylbenzene
Concen: 13.034 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion:105 Resp: 931508
Ion Ratio Lower Upper
105 100
120 25.7 20.2 30.4





#63

1,1,2,2-Tetrachloroethane

Concen: 12.515 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. -0.000 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

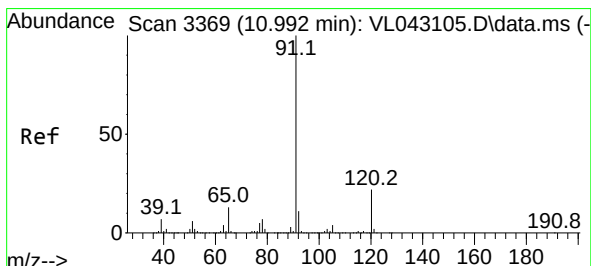
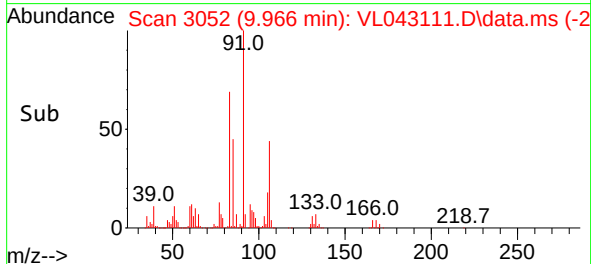
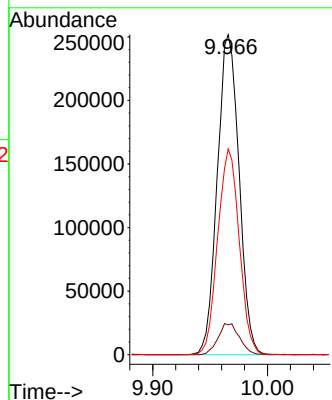
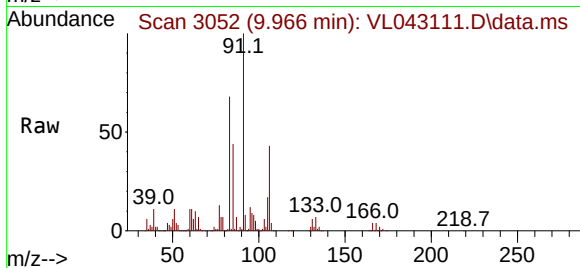
Tgt Ion: 83 Resp: 331423

Ion Ratio Lower Upper

83 100

131 9.6 4.8 14.3

85 63.6 32.0 96.0



#64

n-propylbenzene

Concen: 12.775 ppbv

RT: 10.992 min Scan# 3369

Delta R.T. -0.000 min

Lab File: VL043111.D

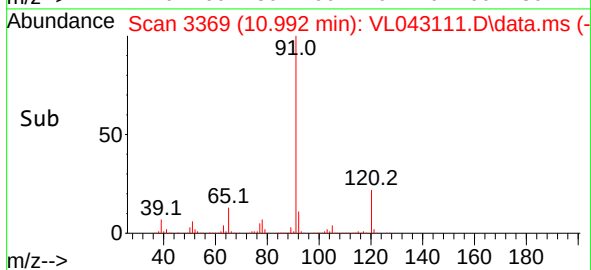
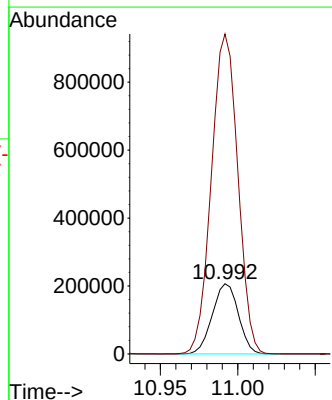
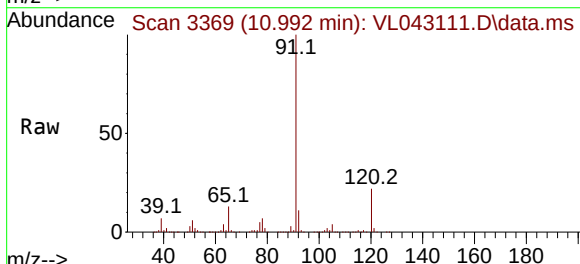
Acq: 14 Oct 2025 14:18

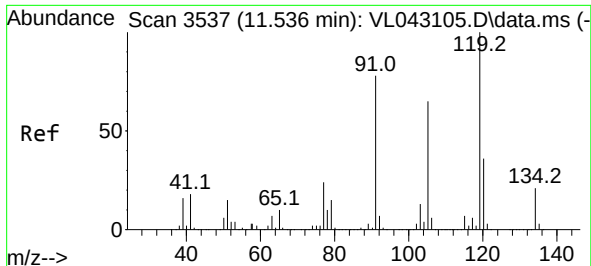
Tgt Ion: 120 Resp: 241719

Ion Ratio Lower Upper

120 100

91 463.5 361.6 542.4

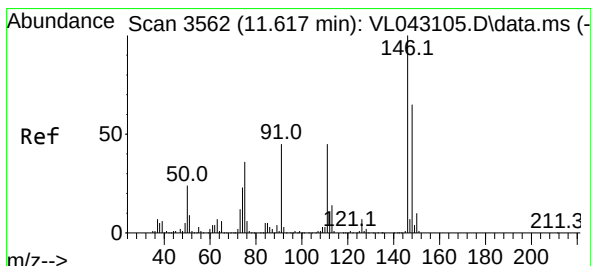
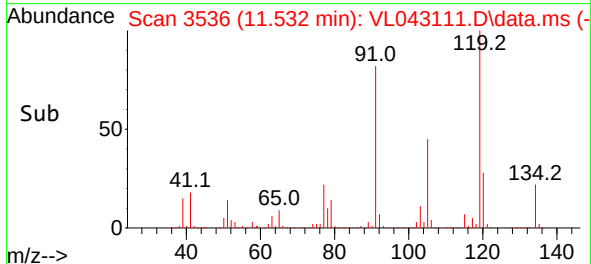
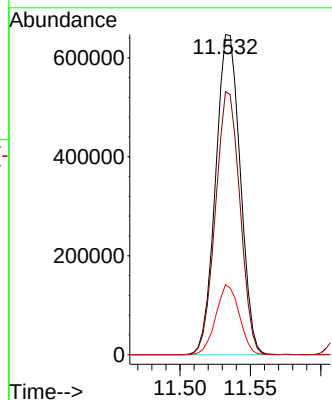
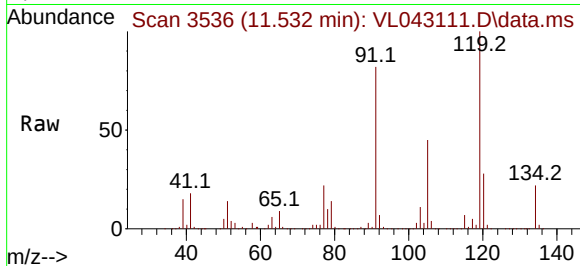




#65
tert-Butylbenzene
Concen: 12.490 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

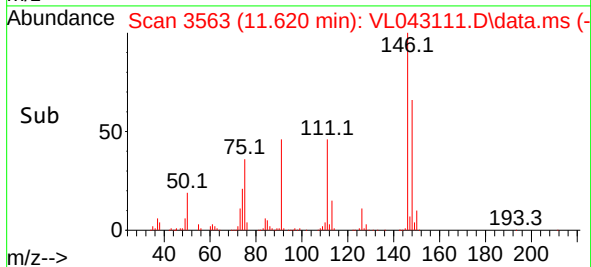
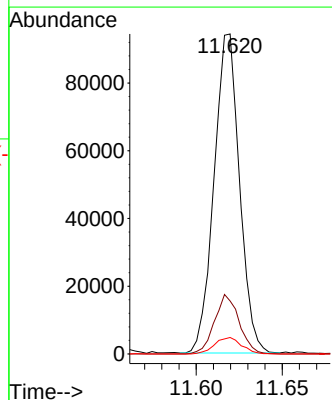
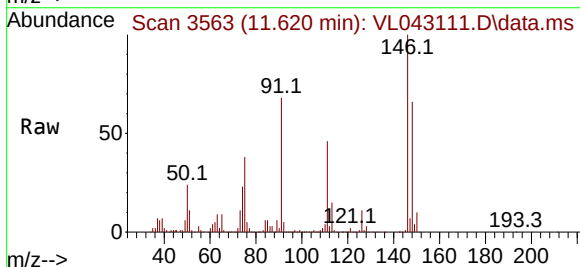
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

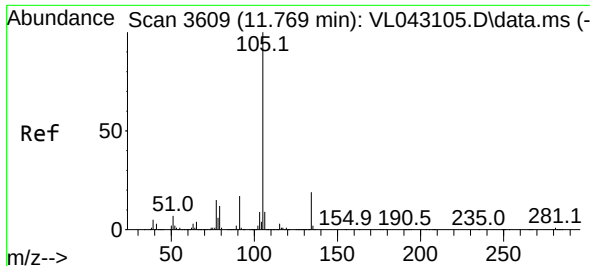
Tgt Ion:119 Resp: 788234
Ion Ratio Lower Upper
119 100
91 81.8 63.4 95.0
134 20.8 17.3 25.9



#66
Benzyl Chloride
Concen: 13.778 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. 0.003 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 91 Resp: 97114
Ion Ratio Lower Upper
91 100
126 18.0 14.6 22.0
128 5.4 4.6 6.8

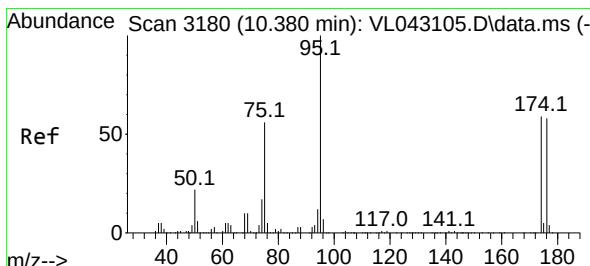
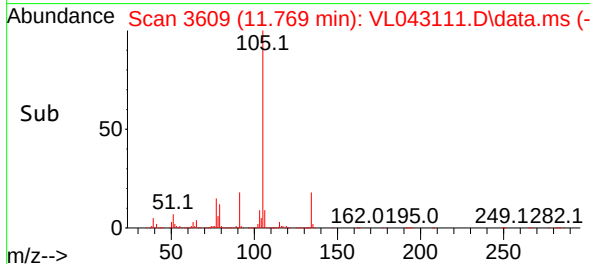
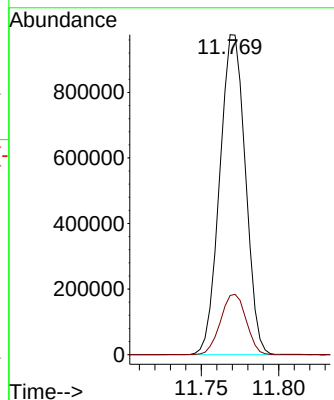
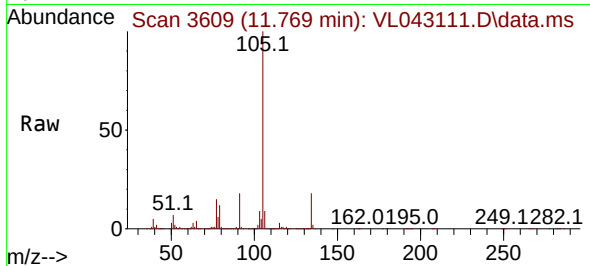




#67
 sec-Butylbenzene
 Concen: 12.566 ppbv
 RT: 11.769 min Scan# 3609
 Delta R.T. -0.000 min
 Lab File: VL043111.D
 Acq: 14 Oct 2025 14:18

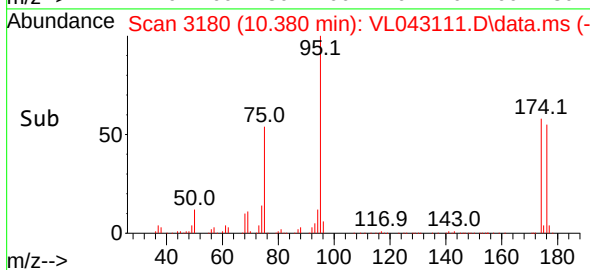
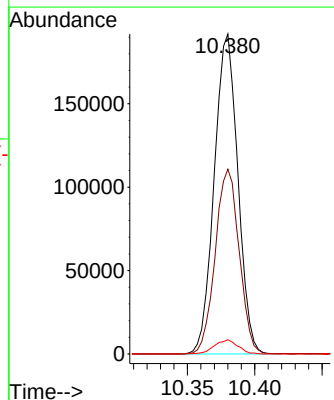
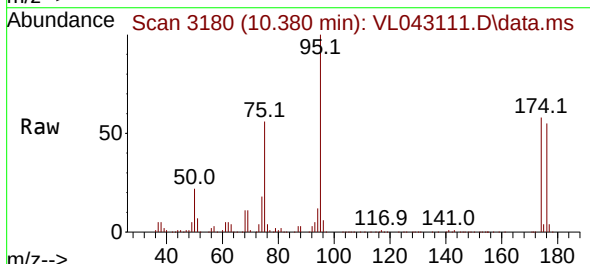
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC015

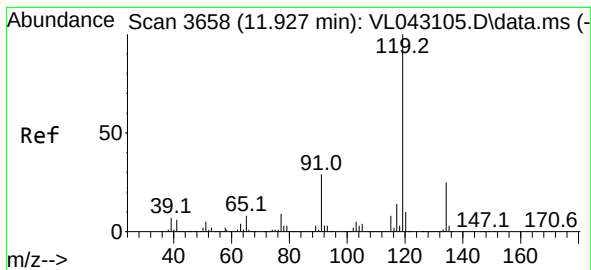
Tgt Ion:105 Resp: 1125489
 Ion Ratio Lower Upper
 105 100
 134 18.9 15.5 23.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.270 ppbv
 RT: 10.380 min Scan# 3180
 Delta R.T. -0.000 min
 Lab File: VL043111.D
 Acq: 14 Oct 2025 14:18

Tgt Ion: 95 Resp: 233522
 Ion Ratio Lower Upper
 95 100
 174 58.7 48.3 72.5
 175 4.4 3.8 5.8





#69

p-Isopropyltoluene

Concen: 12.602 ppbv

RT: 11.930 min Scan# 3659

Delta R.T. 0.003 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

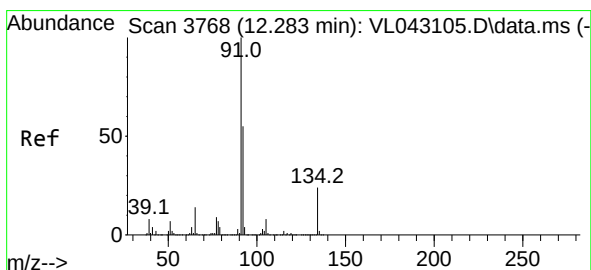
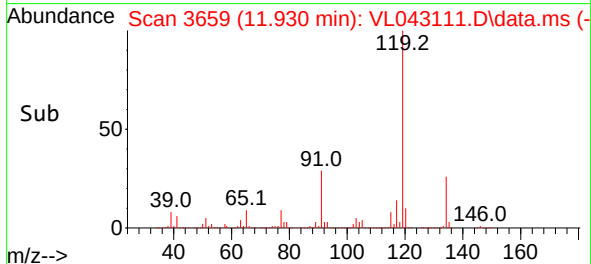
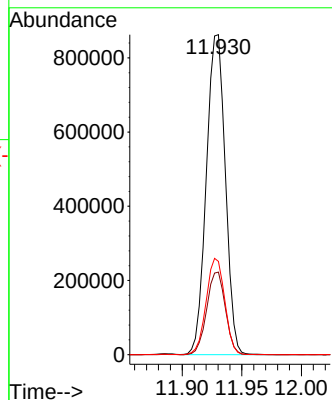
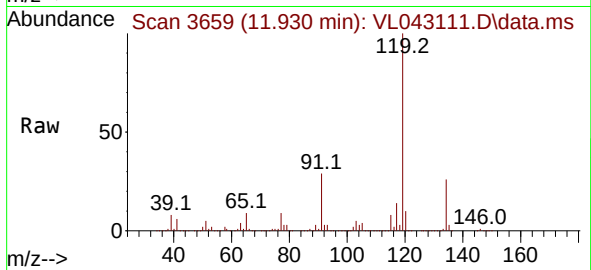
Tgt Ion:119 Resp: 959206

Ion Ratio Lower Upper

119 100

134 25.5 20.3 30.5

91 29.5 22.6 33.8



#70

n-Butylbenzene

Concen: 12.979 ppbv

RT: 12.283 min Scan# 3768

Delta R.T. -0.000 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

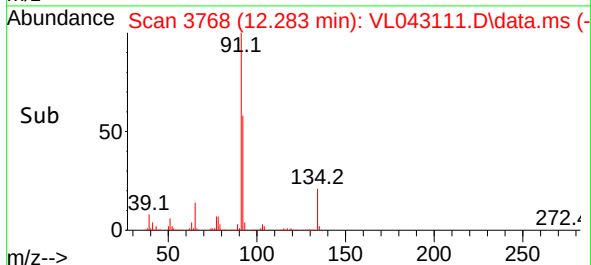
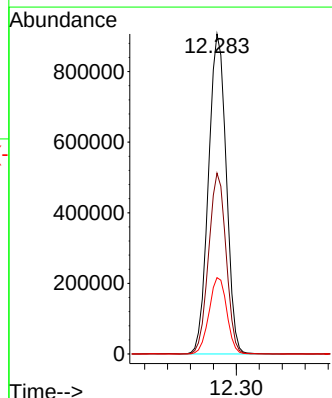
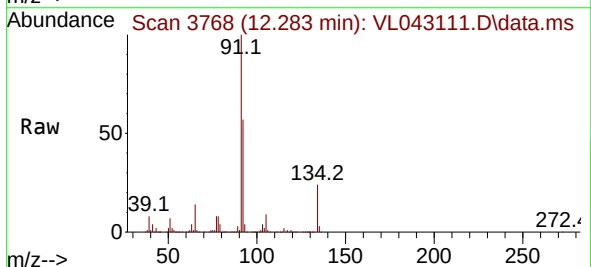
Tgt Ion: 91 Resp: 973466

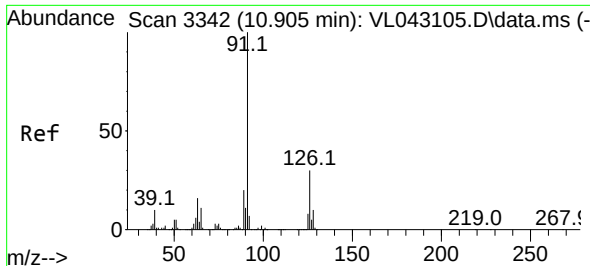
Ion Ratio Lower Upper

91 100

92 55.6 44.5 66.7

134 23.8 19.3 28.9

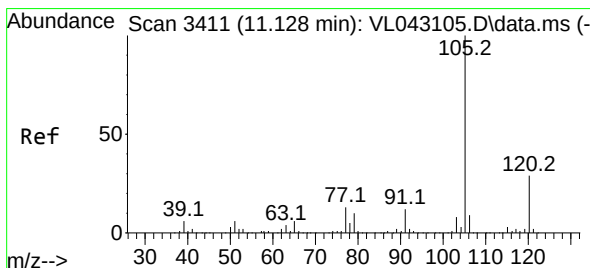
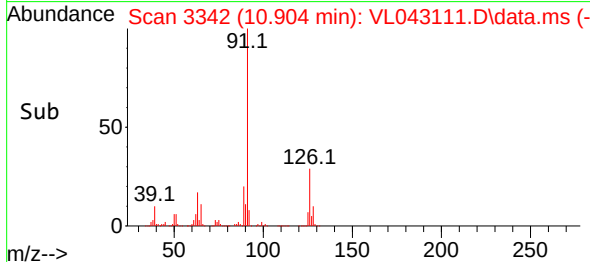
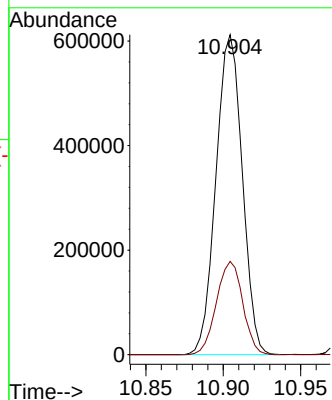
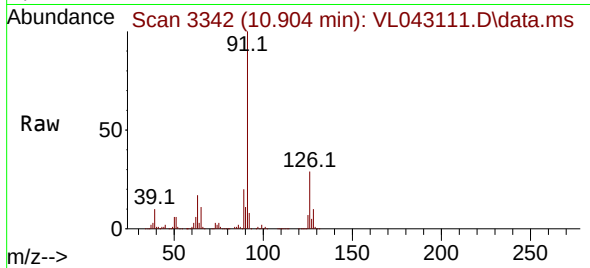




#71
2-Chlorotoluene
Concen: 13.242 ppbv
RT: 10.904 min Scan# 311
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

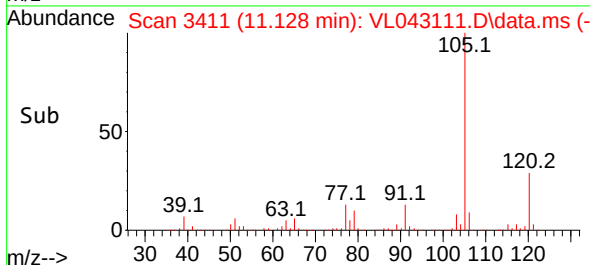
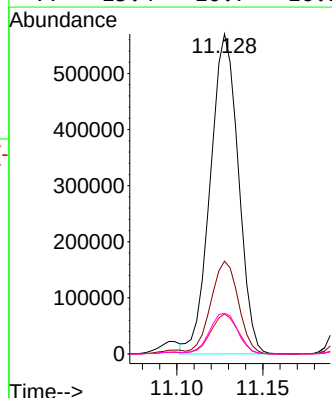
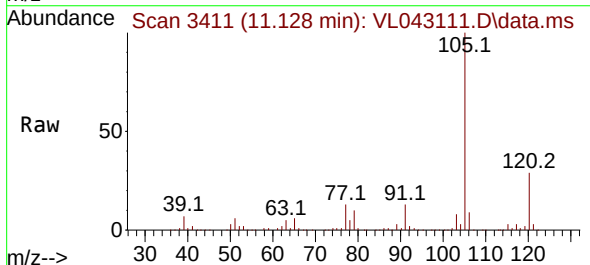
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

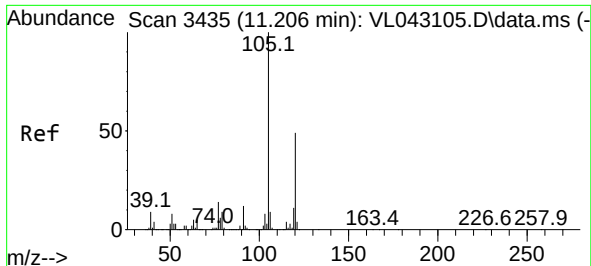
Tgt Ion: 91 Resp: 721827
Ion Ratio Lower Upper
91 100
126 29.1 12.0 48.0



#72
4-Ethyltoluene
Concen: 13.310 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion:105 Resp: 647315
Ion Ratio Lower Upper
105 100
120 29.6 24.2 36.4
91 12.7 10.0 15.0
77 13.4 10.7 16.1

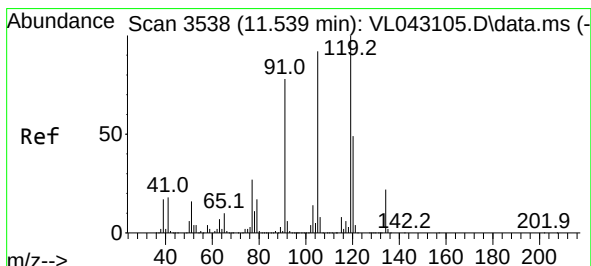
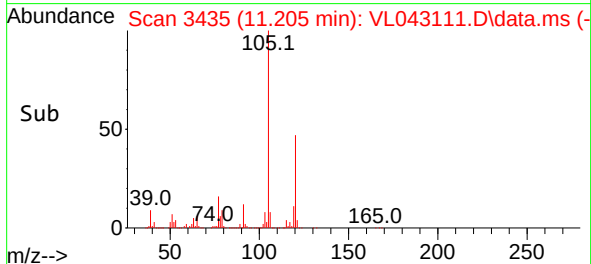
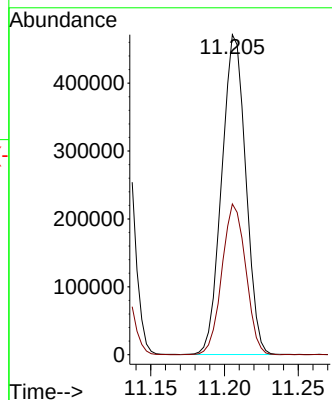
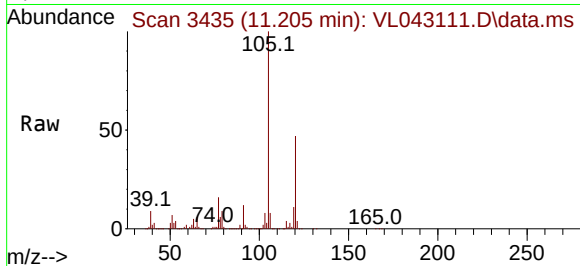




#73
1,3,5-Trimethylbenzene
Concen: 13.314 ppbv
RT: 11.205 min Scan# 3435
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

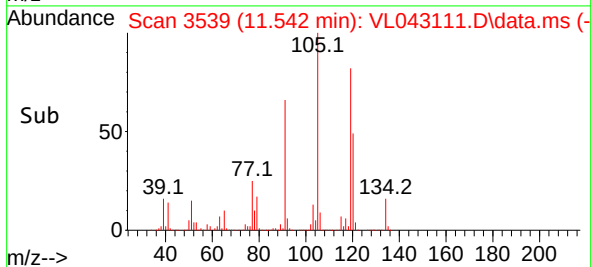
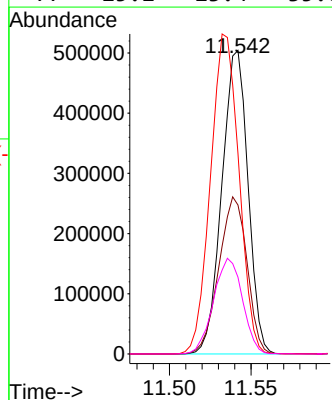
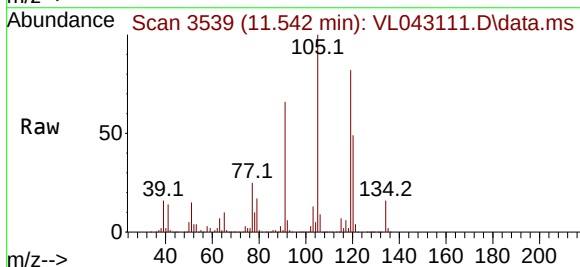
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

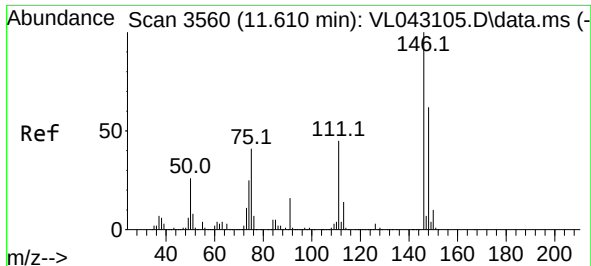
Tgt Ion:105 Resp: 534006
Ion Ratio Lower Upper
105 100
120 47.1 39.0 58.6



#74
1,2,4-Trimethylbenzene
Concen: 12.498 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. 0.003 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion:105 Resp: 560932
Ion Ratio Lower Upper
105 100
120 49.0 42.8 64.2
91 66.0 68.3 102.5#
77 25.2 23.4 35.0

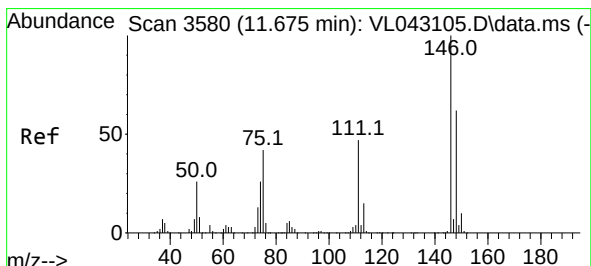
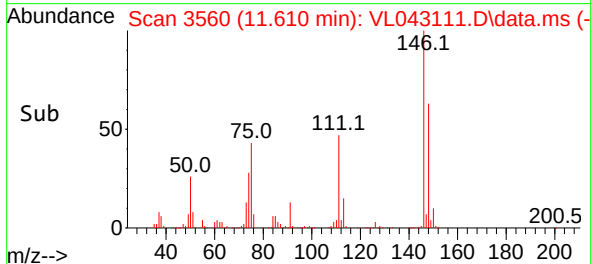
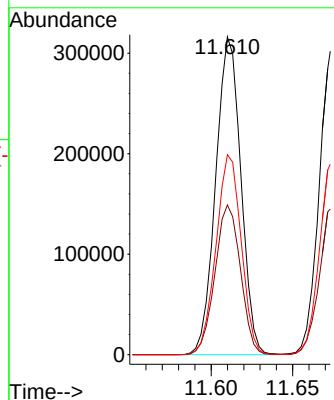
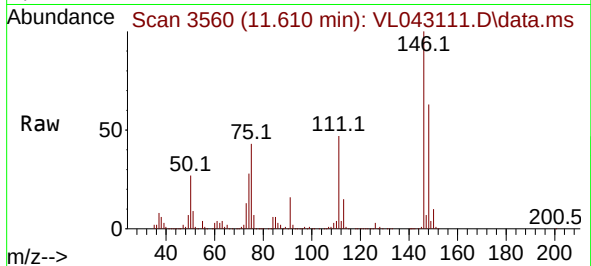




#75
1,3-Dichlorobenzene
Concen: 13.031 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

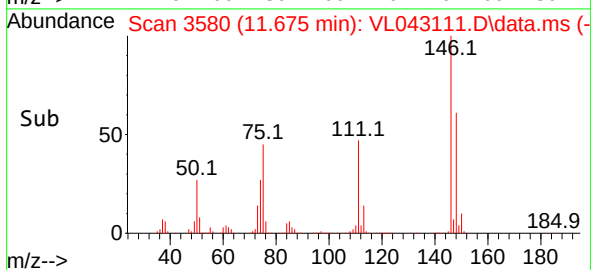
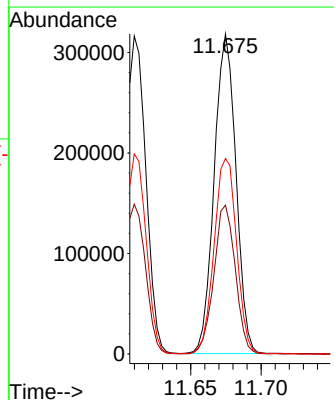
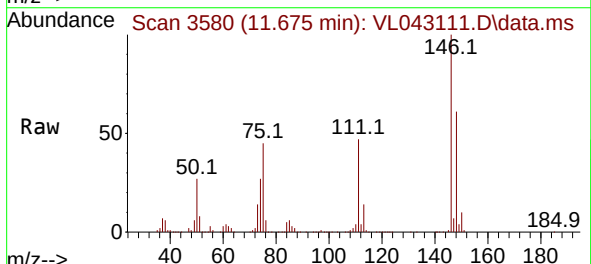
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

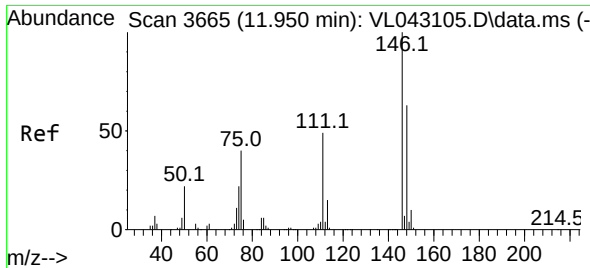
Tgt Ion:146 Resp: 339203
Ion Ratio Lower Upper
146 100
111 47.7 23.3 69.9
148 63.0 31.6 95.0



#76
1,4-Dichlorobenzene
Concen: 13.027 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion:146 Resp: 341936
Ion Ratio Lower Upper
146 100
111 46.1 22.4 67.0
148 63.4 31.6 94.7





#77

1,2-Dichlorobenzene

Concen: 12.660 ppbv

RT: 11.950 min Scan# 3

Delta R.T. -0.000 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

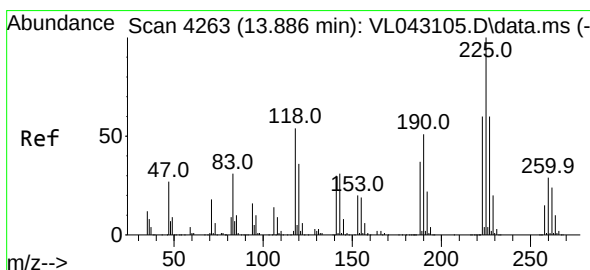
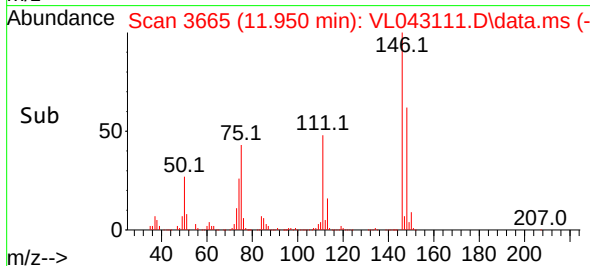
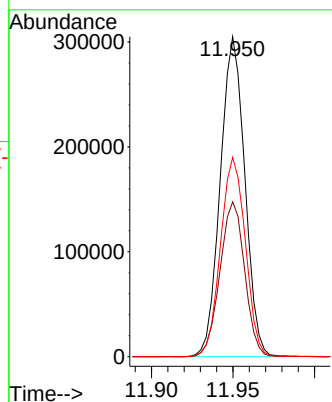
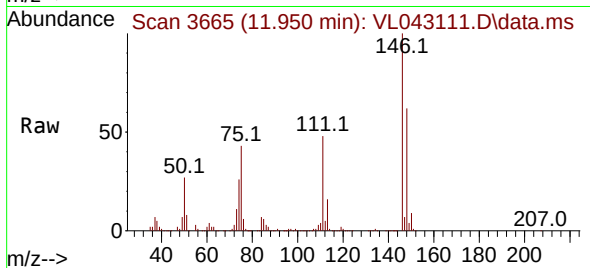
Tgt Ion:146 Resp: 318800

Ion Ratio Lower Upper

146 100

111 48.8 24.0 72.0

148 63.2 31.1 93.3



#78

Hexachloro-1,3-Butadiene

Concen: 11.606 ppbv

RT: 13.882 min Scan# 4262

Delta R.T. -0.004 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

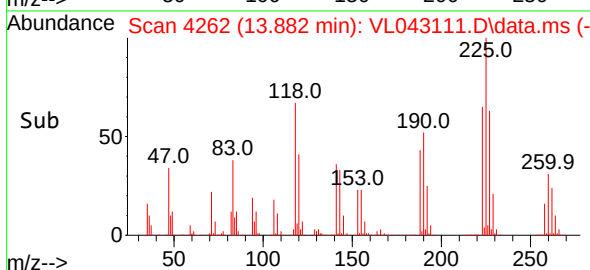
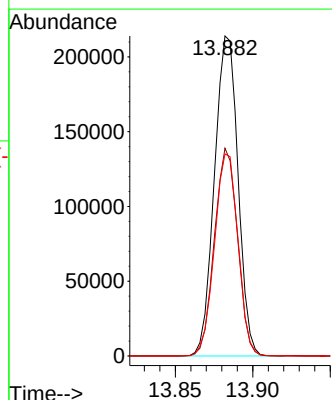
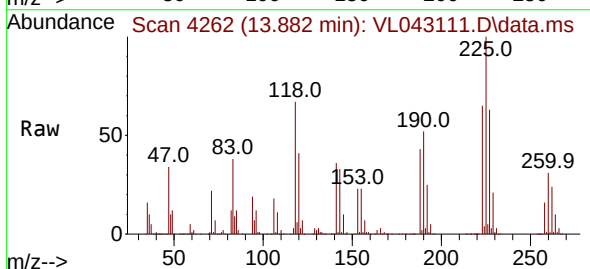
Tgt Ion:225 Resp: 226294

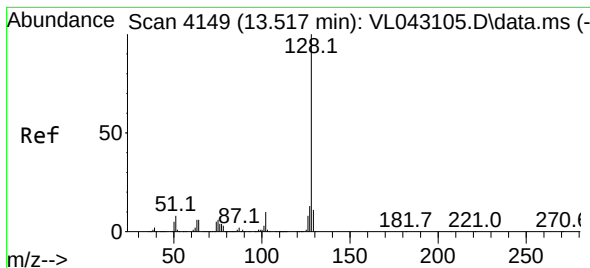
Ion Ratio Lower Upper

225 100

223 63.5 50.2 75.4

227 63.1 49.6 74.4





#79

Naphthalene

Concen: 14.260 ppbv

RT: 13.516 min Scan# 4149

Delta R.T. -0.000 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

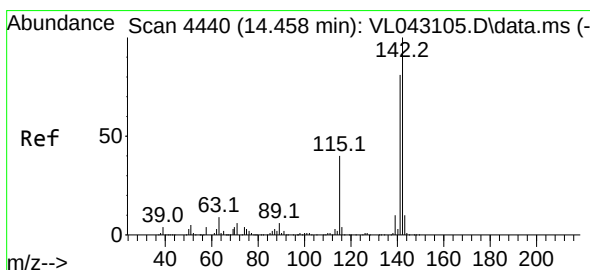
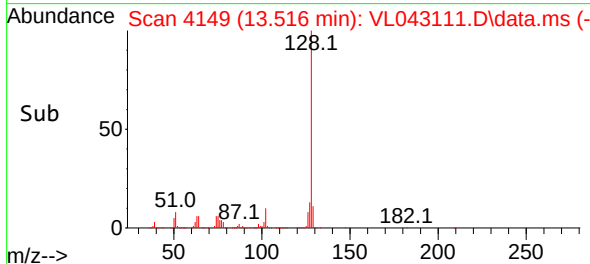
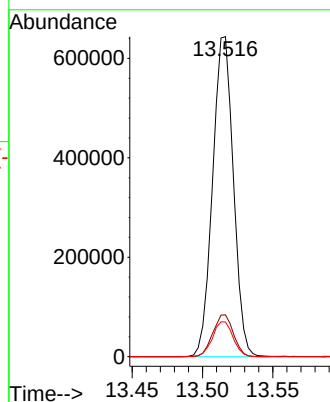
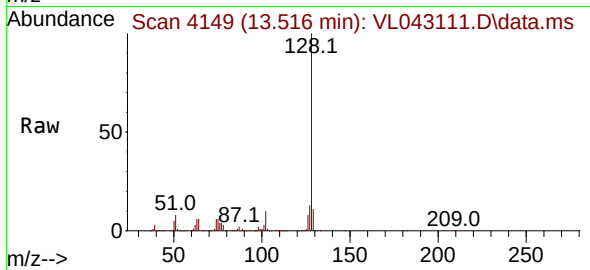
Tgt Ion:128 Resp: 661098

Ion Ratio Lower Upper

128 100

127 13.1 10.5 15.7

129 10.8 9.1 13.7



#80

Naphthalene,2-methyl-

Concen: 17.384 ppbv

RT: 14.458 min Scan# 4440

Delta R.T. -0.000 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

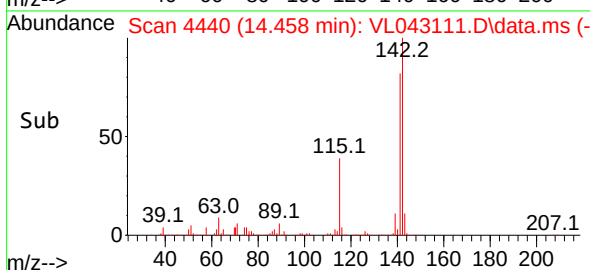
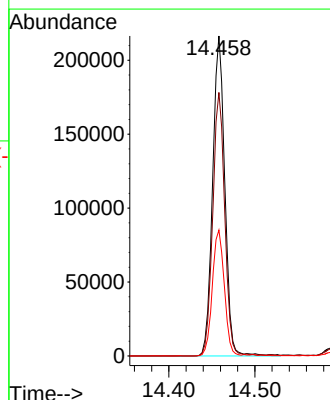
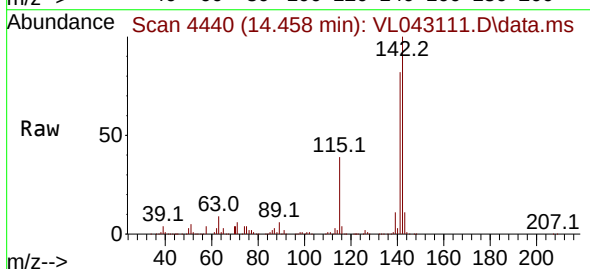
Tgt Ion:142 Resp: 212784

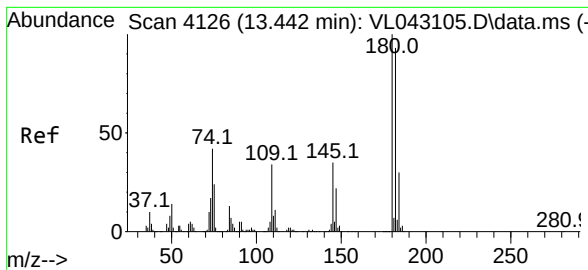
Ion Ratio Lower Upper

142 100

141 81.9 64.6 97.0

115 39.4 30.2 45.4

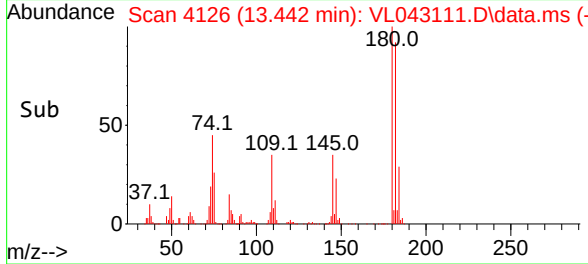
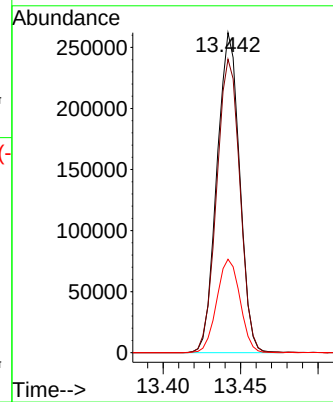
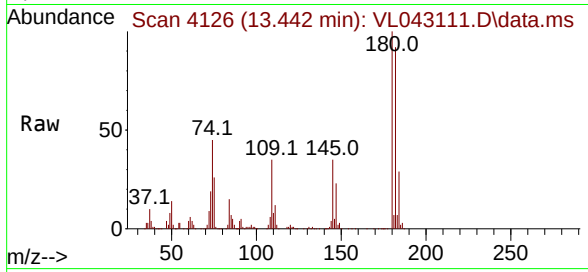




#81
 1,2,4-Trichlorobenzene
 Concen: 13.698 ppbv
 RT: 13.442 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL043111.D
 Acq: 14 Oct 2025 14:18

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion:180 Resp: 266712
 Ion Ratio Lower Upper
 180 100
 182 94.2 75.5 113.3
 184 30.0 23.9 35.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
 Data File : VL043112.D
 Acq On : 14 Oct 2025 14:51
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL101425

Quant Time: Oct 15 02:14:28 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 02:12:58 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	97563	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	325610	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	291676	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	229010	10.101	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.000%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	130726	9.425	ppbv	98
3) Chlorodifluoromethane	1.479	51	138956	9.260	ppbv	99
4) Chloromethane	1.538	50	48722	8.867	ppbv	96
5) Vinyl Chloride	1.583	62	47005	8.722	ppbv	97
6) Bromomethane	1.670	94	26304	8.901	ppbv	98
7) Chloroethane	1.709	64	19138	8.685	ppbv	100
8) Dichlorotetrafluoroethane	1.557	85	107147	9.558	ppbv	99
9) Propene	1.486	41	59287	8.908	ppbv	98
10) Heptane	4.991	43	165341	8.629	ppbv	99
11) Trichlorofluoromethane	1.881	101	132447	9.762	ppbv	94
12) 1,1,2-Trichlorotrifluo...	2.143	101	102449	9.380	ppbv	98
13) Ethanol	1.725	45	16837	6.839	ppbv	96
14) Bromoethene	1.787	108	37835	9.324	ppbv	100
15) Acetone	1.839	43	108010	8.214	ppbv	99
16) 1,3-Butadiene	1.612	39	55493	8.855	ppbv	98
17) tert-Butyl alcohol	2.043	59	162672	9.012	ppbv	97
18) 1,1-Dichloroethene	2.039	96	46544	9.774	ppbv	93
19) Isopropyl Alcohol	1.887	45	67552	8.248	ppbv	97
20) Methylene Chloride	2.065	84	40319	7.757	ppbv	89
21) Allyl Chloride	2.101	41	88965	9.181	ppbv	96
22) trans-1,2-Dichloroethene	2.347	96	51295	9.011	ppbv	93
23) Vinyl Acetate	2.467	43	185329	9.621	ppbv	98
24) 1,1-Dichloroethane	2.415	63	102877	9.355	ppbv	98
25) Ethyl Acetate	2.839	43	292399	8.966	ppbv	100
26) Hexane	2.832	57	135463	9.015	ppbv	97
27) Carbon Disulfide	2.156	76	131064	9.520	ppbv	100
28) Methyl tert-Butyl Ether	2.444	73	67260	9.839	ppbv	97
29) Chloroform	2.852	83	204925	9.412	ppbv	95
30) Cyclohexane	3.865	84	119287	9.096	ppbv	96
31) cis-1,2-Dichloroethene	2.725	61	137462	9.580	ppbv	98
32) 1,1,1-Trichloroethane	3.373	97	219167	9.666	ppbv	98
34) 2-Butanone	2.560	43	188755	8.624	ppbv	99
35) Carbon Tetrachloride	3.771	117	217678	9.298	ppbv	96
36) Benzene	3.664	78	278365	9.077	ppbv	97
37) 1,2-Dichloroethane	3.224	62	161750	9.156	ppbv	98
38) Trichloroethene	4.557	130	108261	8.453	ppbv	96
39) 1,2-Dichloropropane	4.321	63	100580	8.971	ppbv	96
40) 1,4-Dioxane	4.587	88	41464	8.265	ppbv #	95
41) Tetrahydrofuran	3.056	42	104701	8.553	ppbv	99
42) Bromodichloromethane	4.496	83	228288	9.336	ppbv	96
43) Methyl Methacrylate	4.884	69	138593	8.898	ppbv	99
44) 2,2,4-Trimethylpentane	4.648	57	452117	8.738	ppbv	99
45) t-1,3-Dichloropropene	6.422	75	142964	9.146	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
 Data File : VL043112.D
 Acq On : 14 Oct 2025 14:51
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

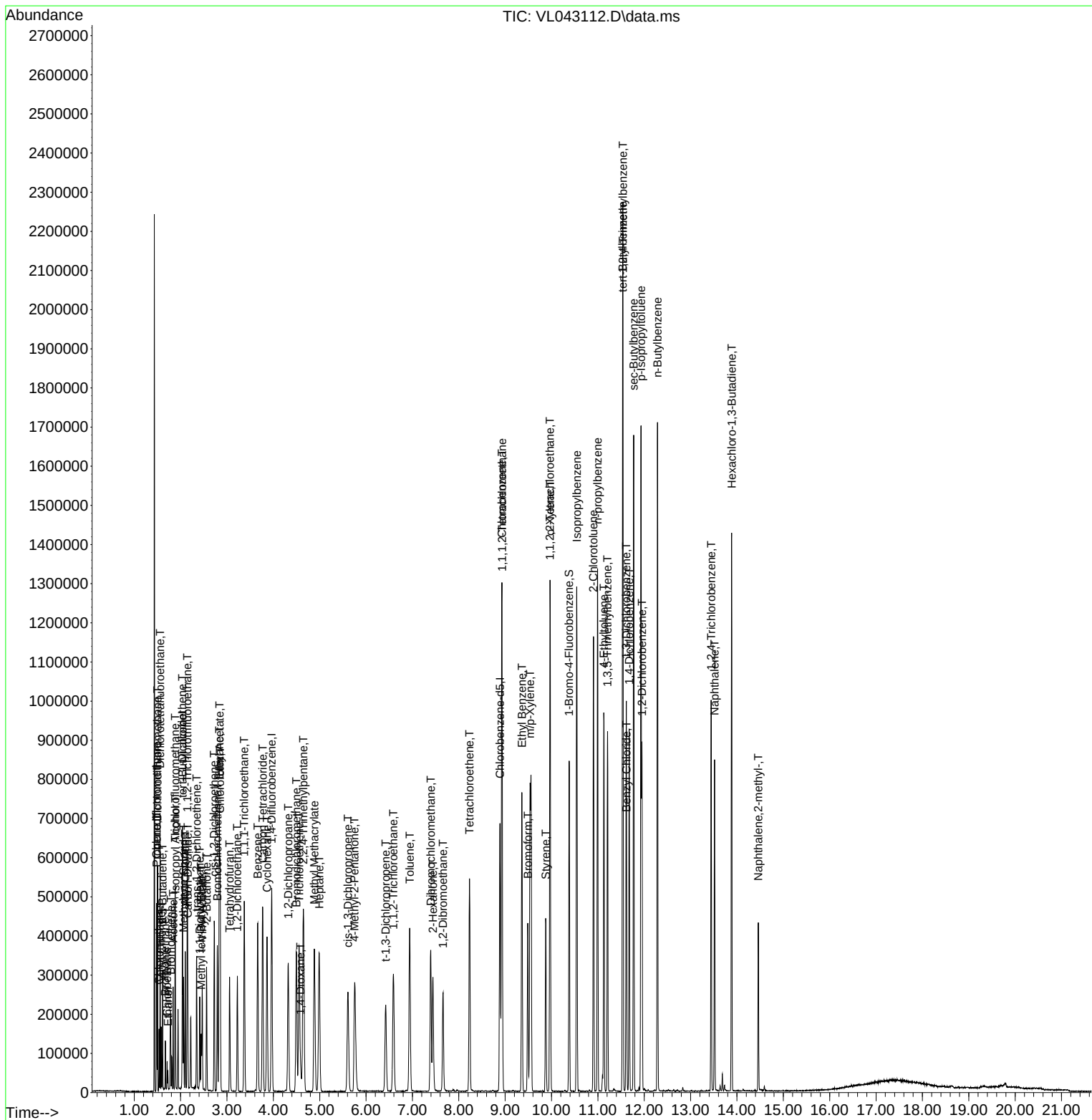
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL101425

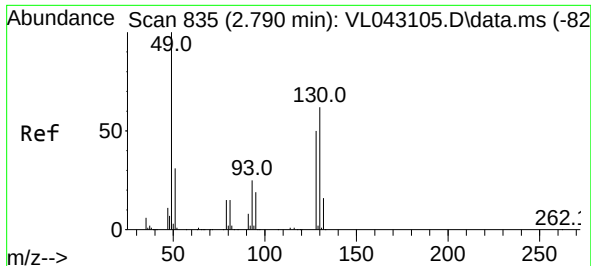
Quant Time: Oct 15 02:14:28 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 02:12:58 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	170038	9.106	ppbv	95
47) 1,1,2-Trichloroethane	6.590	97	108965	9.000	ppbv	96
48) Dibromochloromethane	7.396	129	184757	9.127	ppbv	100
49) Bromoform	9.490	173	147759	8.980	ppbv	100
50) 4-Methyl-2-Pentanone	5.752	43	263070	8.709	ppbv	100
51) 2-Hexanone	7.441	43	203876	8.999	ppbv #	99
52) Tetrachloroethene	8.231	164	96000	8.681	ppbv	97
53) Toluene	6.943	91	324944	8.928	ppbv	100
54) 1,2-Dibromoethane	7.661	107	167936	8.856	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.933	131	166059	9.031	ppbv	98
57) Chlorobenzene	8.930	112	239309	8.770	ppbv	99
58) Ethyl Benzene	9.361	91	450029	8.990	ppbv	99
59) m/p-Xylene	9.539	91	392158	9.822	ppbv #	29
60) o-Xylene	9.969	91	348346	8.834	ppbv	100
61) Styrene	9.878	104	161979	9.099	ppbv	98
62) Isopropylbenzene	10.545	105	621758	8.726	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.966	83	215911	8.177	ppbv	100
64) n-propylbenzene	10.995	120	160411	8.503	ppbv	94
65) tert-Butylbenzene	11.536	119	532570	8.464	ppbv	98
66) Benzyl Chloride	11.620	91	58169	8.306	ppbv	98
67) sec-Butylbenzene	11.772	105	762711	8.541	ppbv	98
69) p-Isopropyltoluene	11.930	119	638261	8.411	ppbv	99
70) n-Butylbenzene	12.286	91	641547	8.579	ppbv	99
71) 2-Chlorotoluene	10.904	91	479799	8.828	ppbv	99
72) 4-Ethyltoluene	11.128	105	427034	8.807	ppbv	99
73) 1,3,5-Trimethylbenzene	11.209	105	354875	8.874	ppbv	95
74) 1,2,4-Trimethylbenzene	11.542	105	372506	8.324	ppbv	92
75) 1,3-Dichlorobenzene	11.610	146	219423	8.454	ppbv	99
76) 1,4-Dichlorobenzene	11.675	146	221364	8.458	ppbv	99
77) 1,2-Dichlorobenzene	11.953	146	204178	8.132	ppbv	98
78) Hexachloro-1,3-Butadiene	13.885	225	144646	7.440	ppbv	99
79) Naphthalene	13.516	128	389814	8.334	ppbv	99
80) Naphthalene,2-methyl-	14.458	142	123632	10.146	ppbv	97
81) 1,2,4-Trichlorobenzene	13.445	180	162553	8.373	ppbv	98

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

Quant Time: Oct 15 02:14:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration

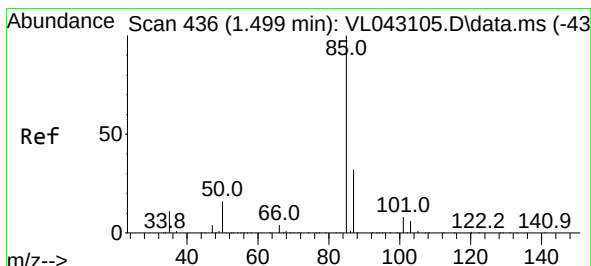
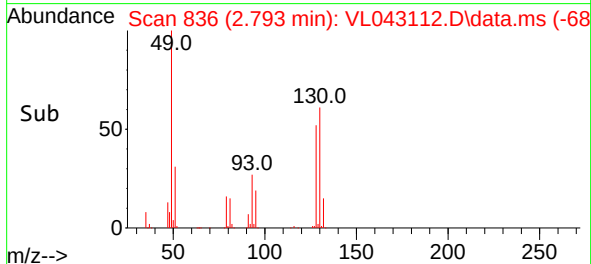
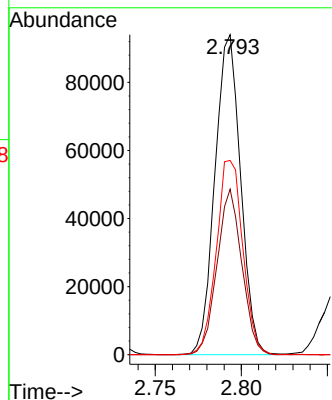
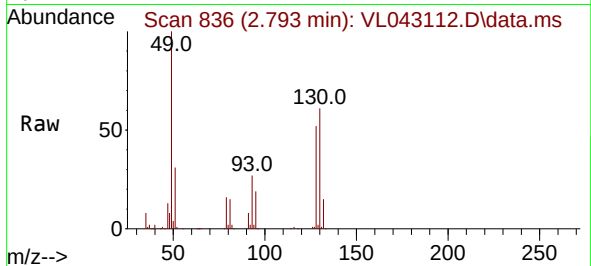




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

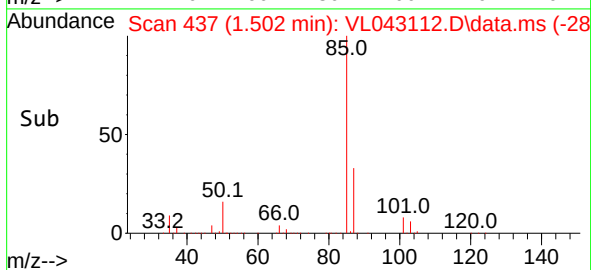
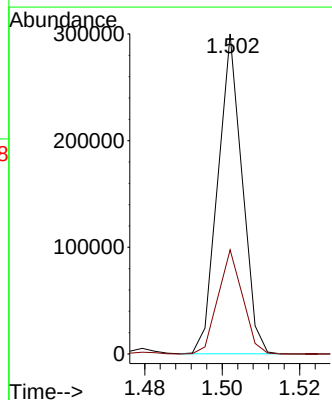
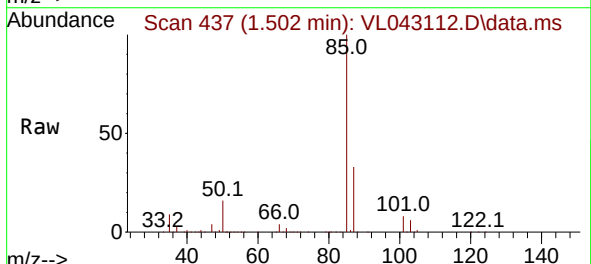
Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

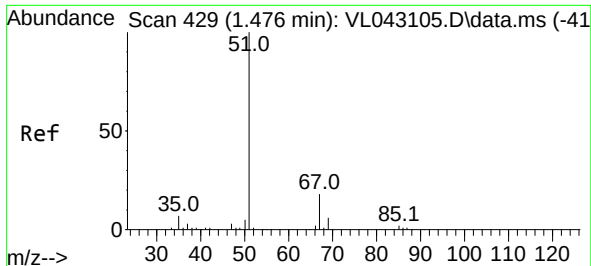
Tgt Ion: 49 Resp: 97563
Ion Ratio Lower Upper
49 100
128 50.0 24.4 73.4
130 62.8 31.0 93.0



#2
Dichlorodifluoromethane
Concen: 9.425 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 85 Resp: 130726
Ion Ratio Lower Upper
85 100
87 32.6 25.3 37.9

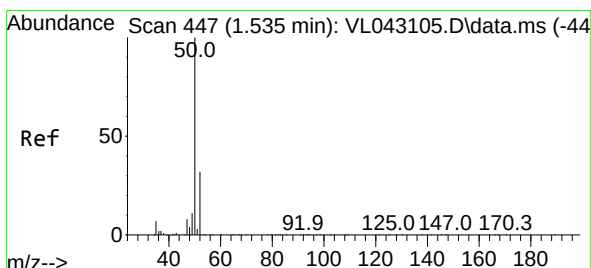
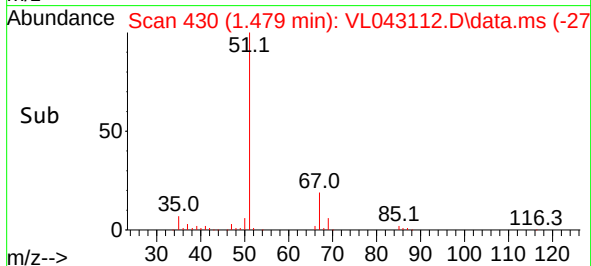
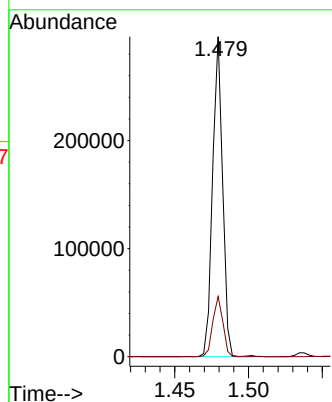
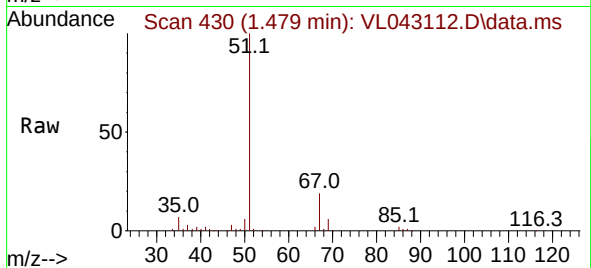




#3
Chlorodifluoromethane
Concen: 9.260 ppbv
RT: 1.479 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

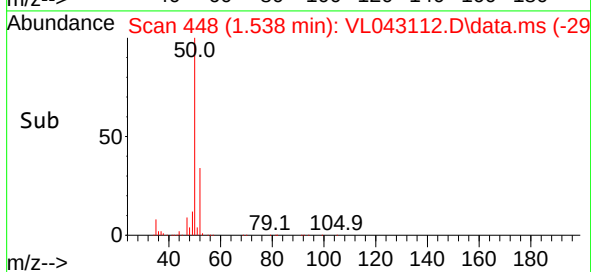
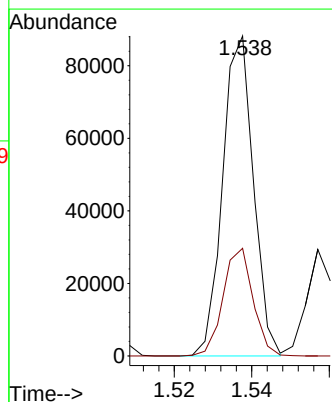
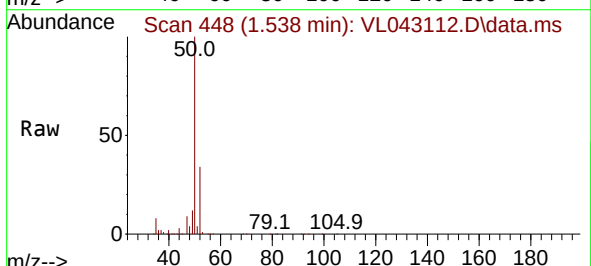
Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

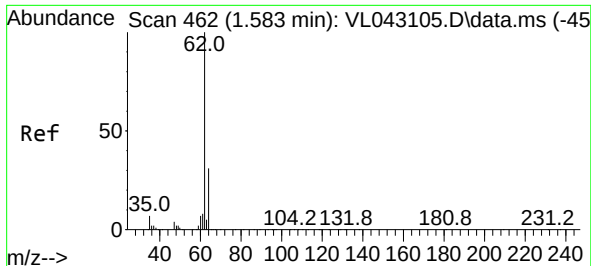
Tgt Ion: 51 Resp: 138956
Ion Ratio Lower Upper
51 100
67 19.1 15.1 22.7



#4
Chloromethane
Concen: 8.867 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 50 Resp: 48722
Ion Ratio Lower Upper
50 100
52 33.4 25.2 37.8

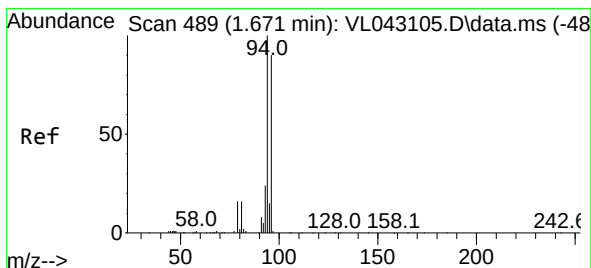
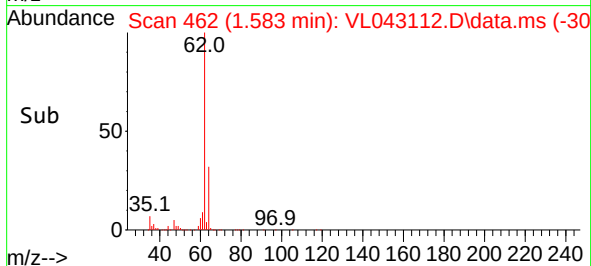
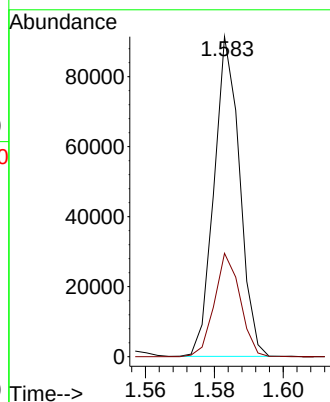
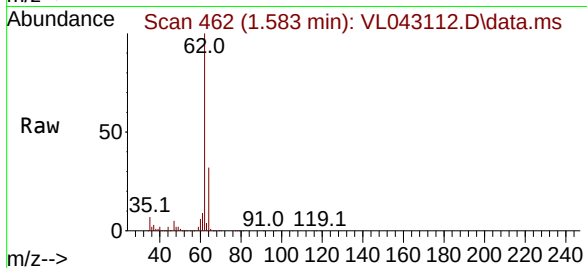




#5
 Vinyl Chloride
 Concen: 8.722 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. -0.000 min
 Lab File: VL043112.D
 Acq: 14 Oct 2025 14:51

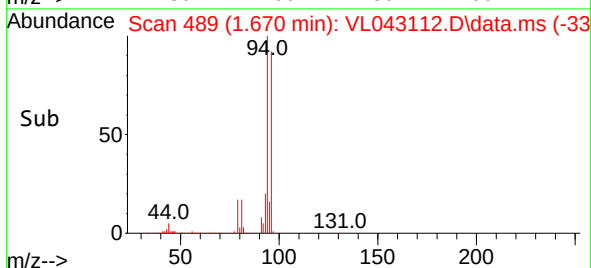
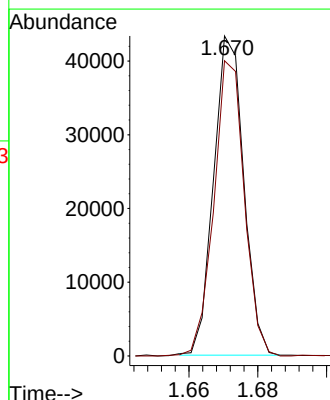
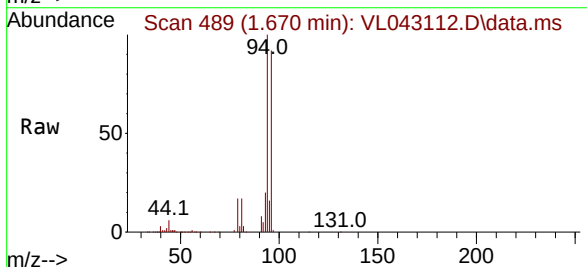
Instrument :
 MSVOA_1
 ClientSampleId :
 ICVVL101425

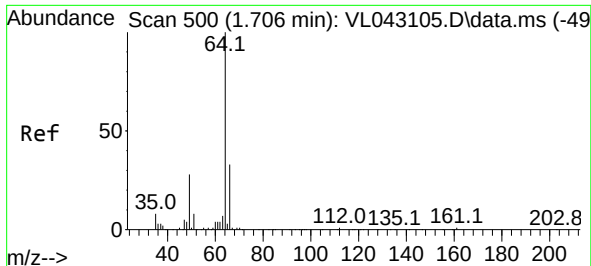
Tgt Ion: 62 Resp: 47005
 Ion Ratio Lower Upper
 62 100
 64 32.3 24.6 36.8



#6
 Bromomethane
 Concen: 8.901 ppbv
 RT: 1.670 min Scan# 489
 Delta R.T. -0.000 min
 Lab File: VL043112.D
 Acq: 14 Oct 2025 14:51

Tgt Ion: 94 Resp: 26304
 Ion Ratio Lower Upper
 94 100
 96 92.5 72.2 108.4

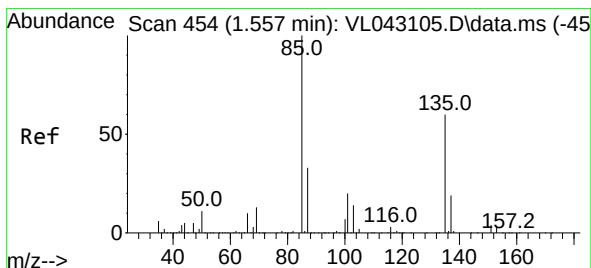
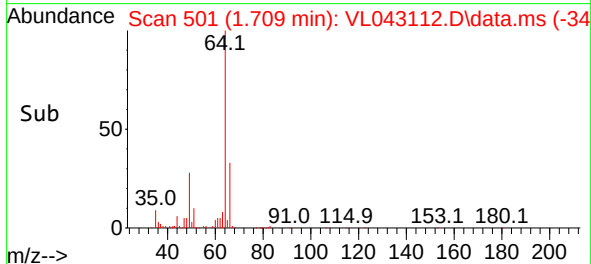
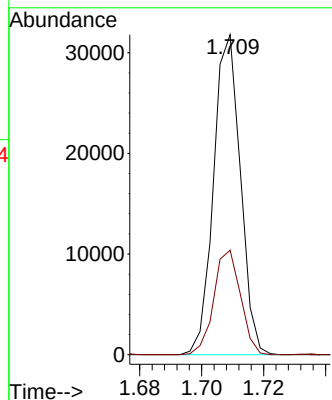
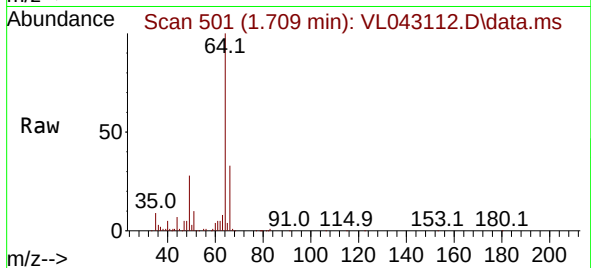




#7
Chloroethane
Concen: 8.685 ppbv
RT: 1.709 min Scan# 500
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

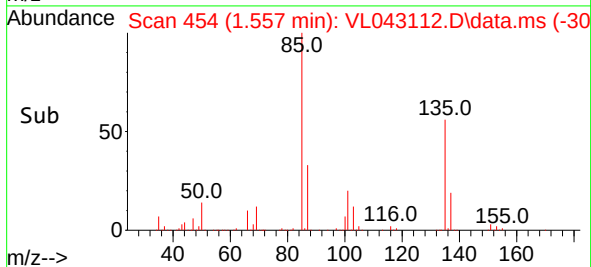
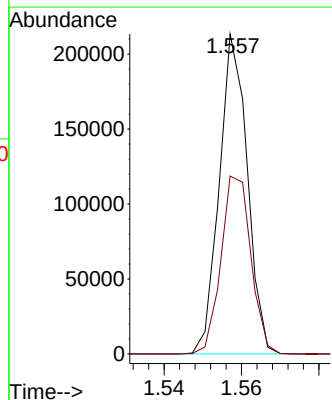
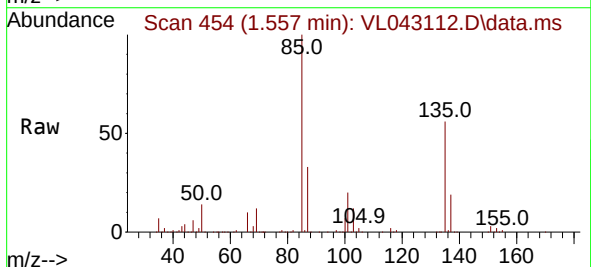
Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

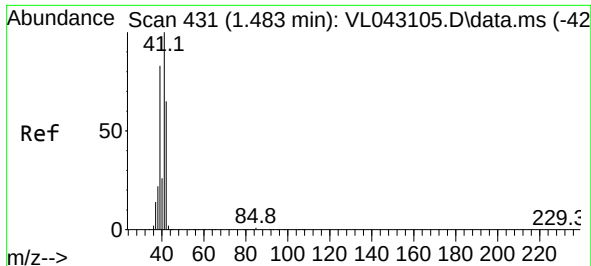
Tgt Ion: 64 Resp: 19138
Ion Ratio Lower Upper
64 100
66 32.7 26.0 39.0



#8
Dichlorotetrafluoroethane
Concen: 9.558 ppbv
RT: 1.557 min Scan# 454
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 85 Resp: 107147
Ion Ratio Lower Upper
85 100
135 59.5 48.2 72.4





#9

Propene

Concen: 8.908 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL043112.D

Acq: 14 Oct 2025 14:51

Instrument :

MSVOA_L

ClientSampleId :

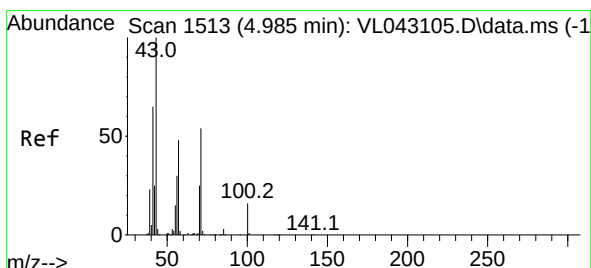
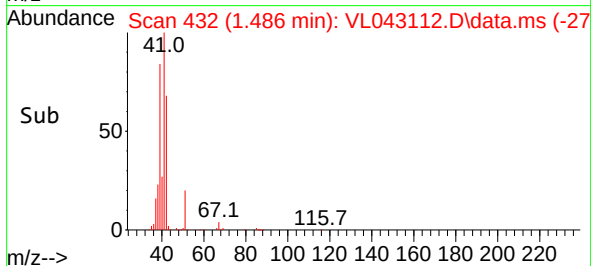
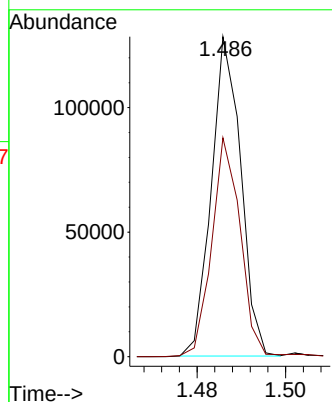
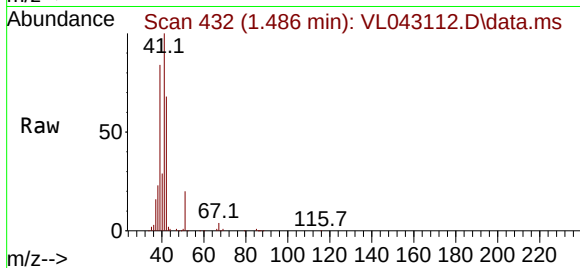
ICVVL101425

Tgt Ion: 41 Resp: 59287

Ion Ratio Lower Upper

41 100

42 67.3 55.1 82.7



#10

Heptane

Concen: 8.629 ppbv

RT: 4.991 min Scan# 1515

Delta R.T. 0.006 min

Lab File: VL043112.D

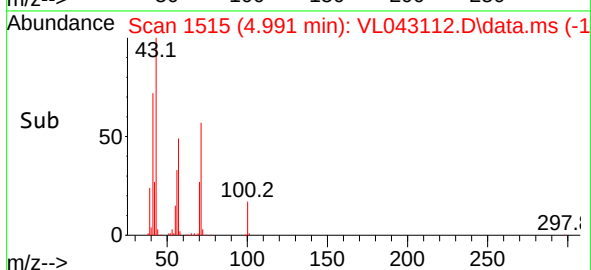
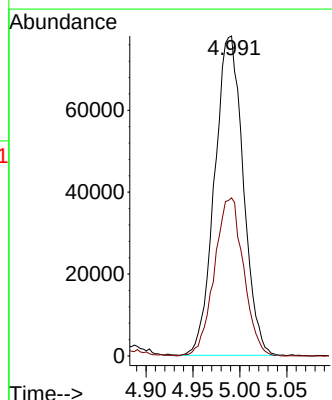
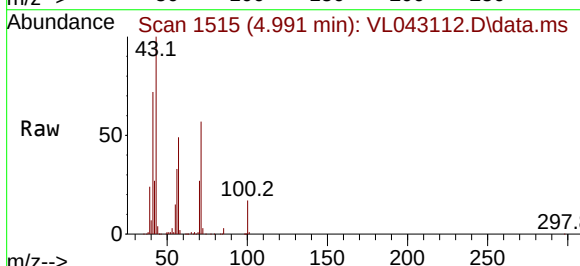
Acq: 14 Oct 2025 14:51

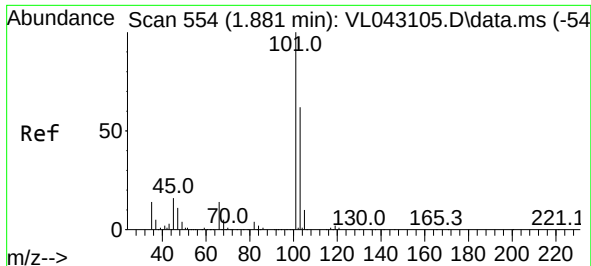
Tgt Ion: 43 Resp: 165341

Ion Ratio Lower Upper

43 100

57 50.4 40.8 61.2

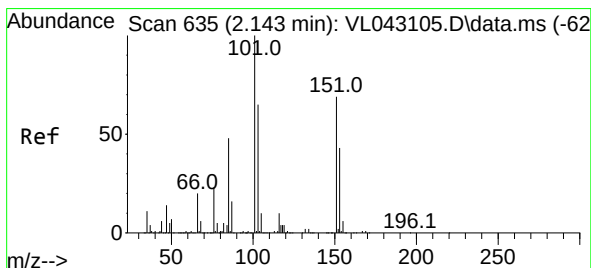
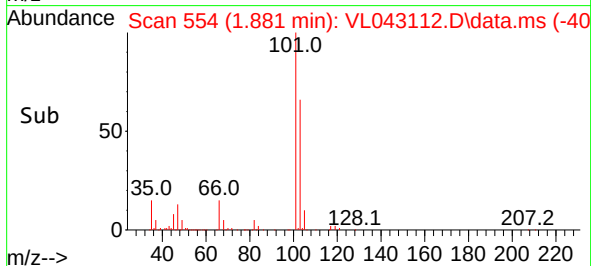
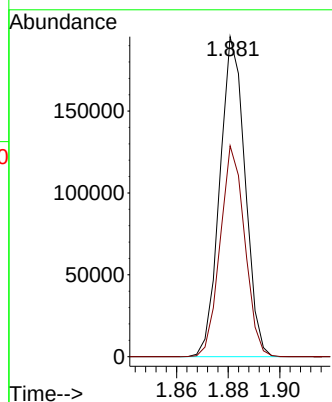
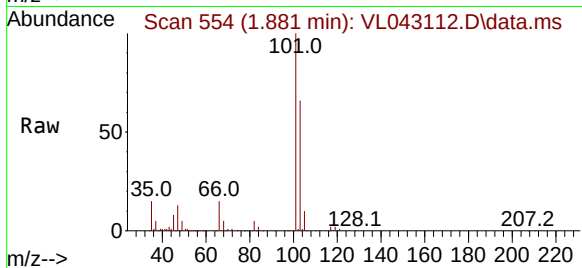




#11
 Trichlorofluoromethane
 Concen: 9.762 ppbv
 RT: 1.881 min Scan# 511
 Delta R.T. -0.000 min
 Lab File: VL043112.D
 Acq: 14 Oct 2025 14:51

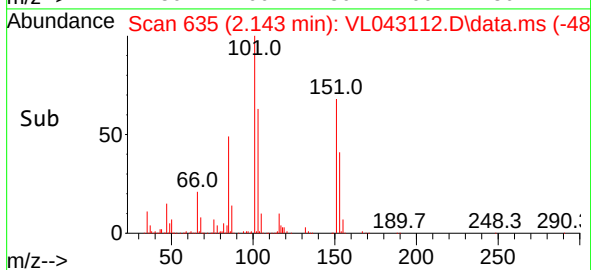
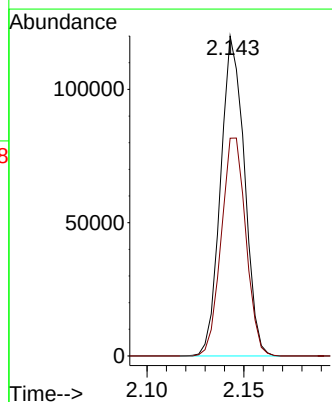
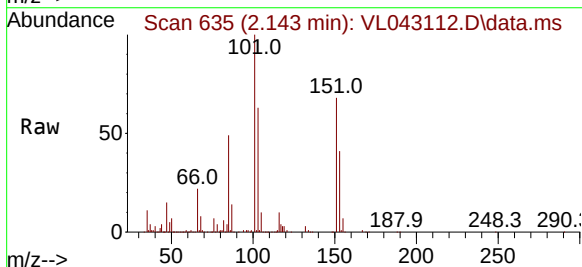
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL101425

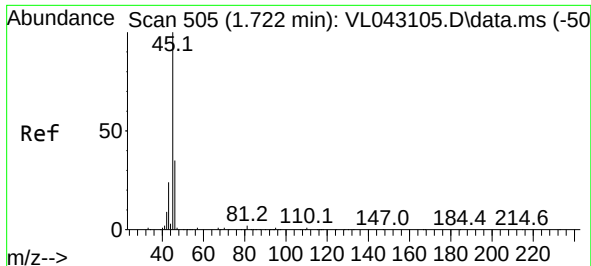
Tgt Ion:101 Resp: 132447
 Ion Ratio Lower Upper
 101 100
 103 65.9 49.3 73.9



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.380 ppbv
 RT: 2.143 min Scan# 635
 Delta R.T. -0.000 min
 Lab File: VL043112.D
 Acq: 14 Oct 2025 14:51

Tgt Ion:101 Resp: 102449
 Ion Ratio Lower Upper
 101 100
 151 70.4 54.7 82.1

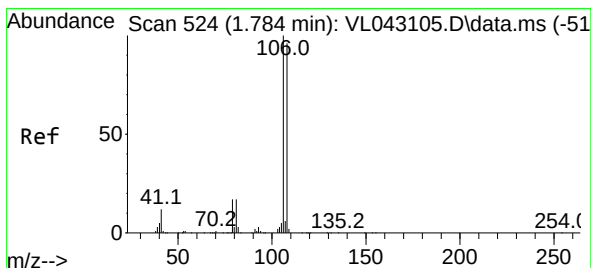
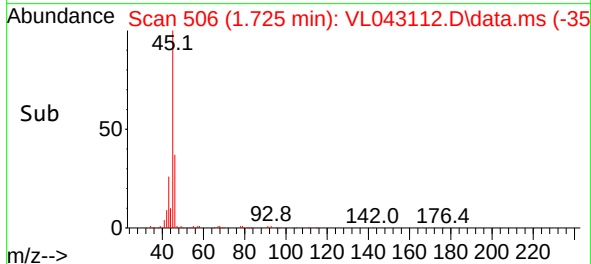
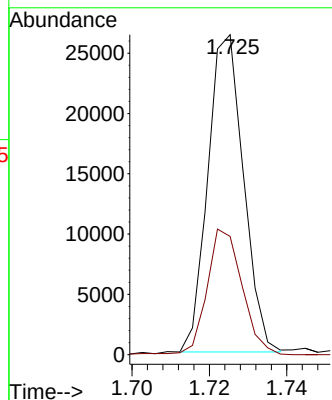
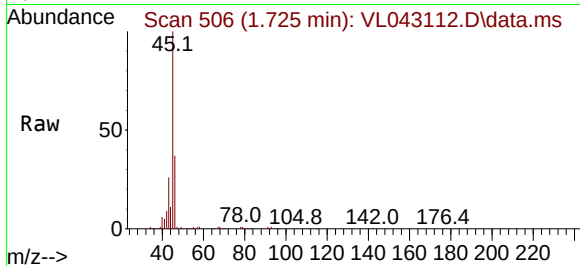




#13
 Ethanol
 Concen: 6.839 ppbv
 RT: 1.725 min Scan# 505
 Delta R.T. 0.003 min
 Lab File: VL043112.D
 Acq: 14 Oct 2025 14:51

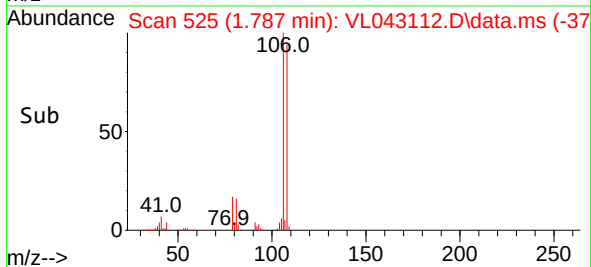
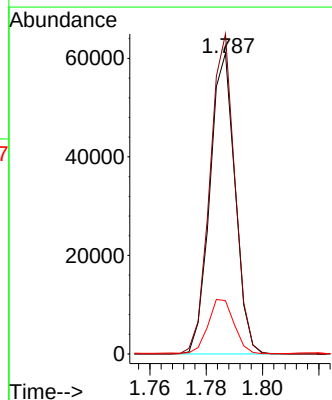
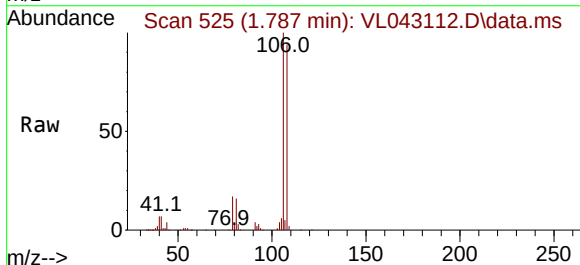
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL101425

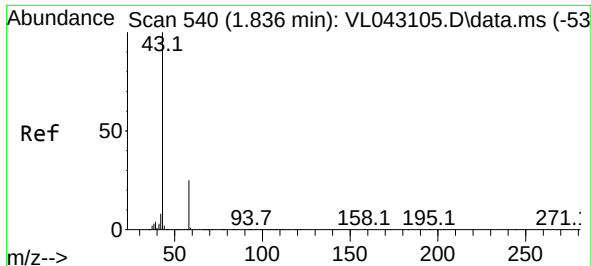
Tgt Ion: 45 Resp: 16837
 Ion Ratio Lower Upper
 45 100
 46 39.2 14.7 58.9



#14
 Bromoethene
 Concen: 9.324 ppbv
 RT: 1.787 min Scan# 525
 Delta R.T. 0.003 min
 Lab File: VL043112.D
 Acq: 14 Oct 2025 14:51

Tgt Ion: 108 Resp: 37835
 Ion Ratio Lower Upper
 108 100
 106 105.3 84.4 126.6
 79 18.7 15.3 22.9

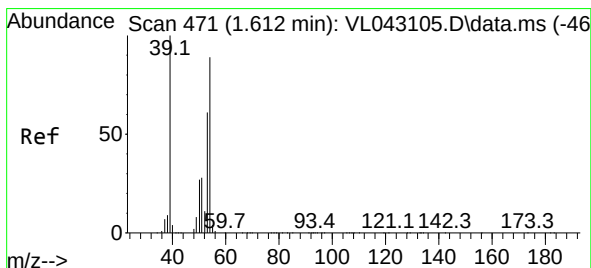
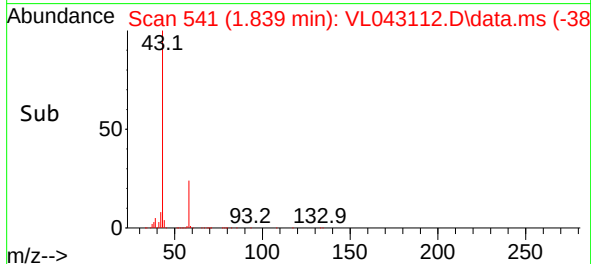
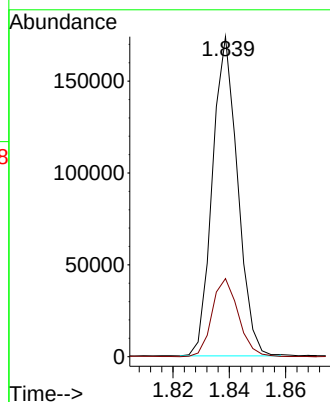
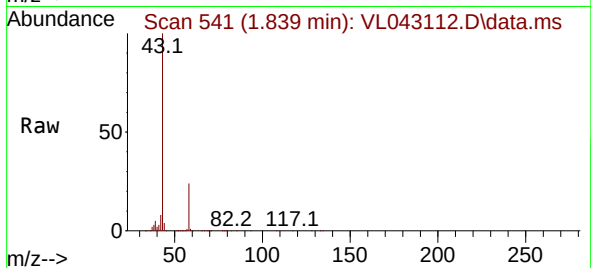




#15
Acetone
Concen: 8.214 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

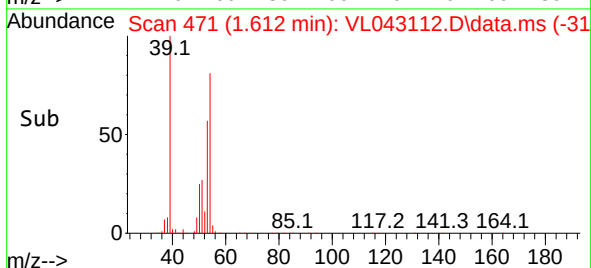
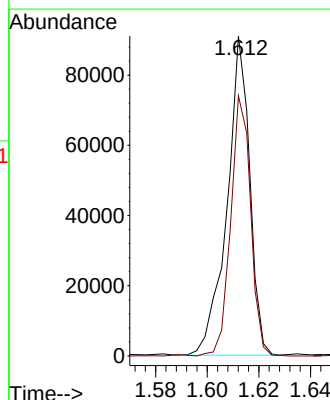
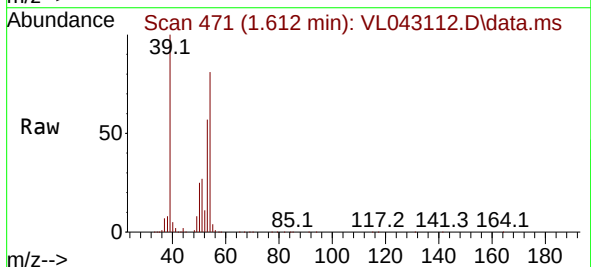
Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

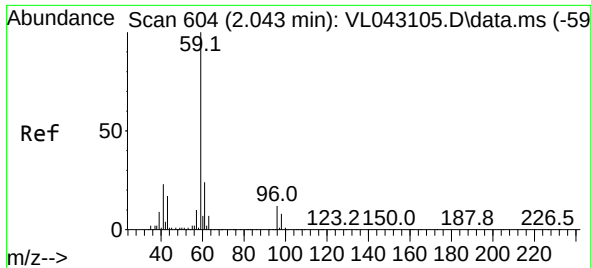
Tgt Ion: 43 Resp: 108010
Ion Ratio Lower Upper
43 100
58 25.7 20.8 31.2



#16
1,3-Butadiene
Concen: 8.855 ppbv
RT: 1.612 min Scan# 471
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 39 Resp: 55493
Ion Ratio Lower Upper
39 100
54 72.0 59.0 88.4

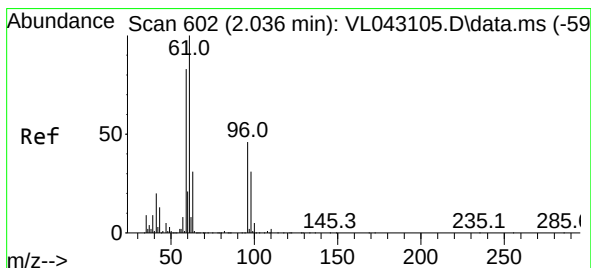
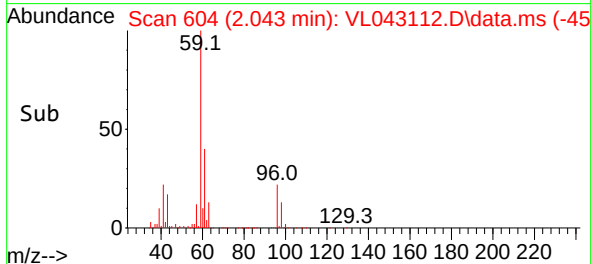
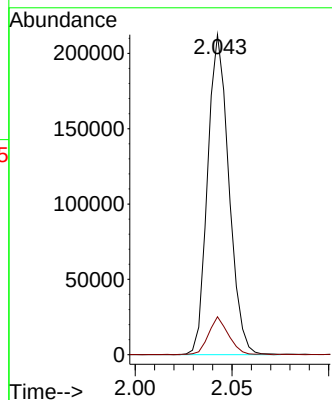
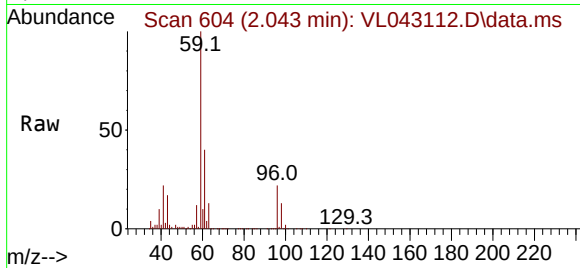




#17
tert-Butyl alcohol
Concen: 9.012 ppbv
RT: 2.043 min Scan# 604
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

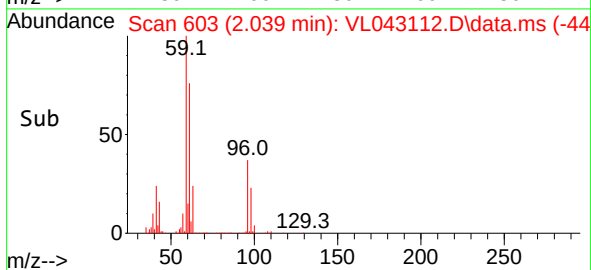
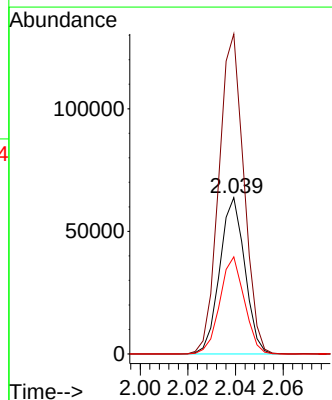
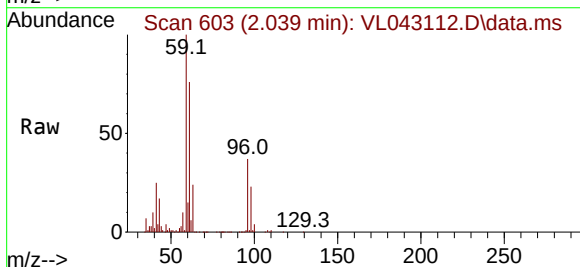
Instrument :
MSVOA_1
ClientSampleId :
ICVVL101425

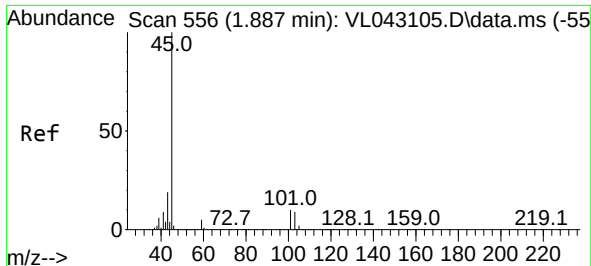
Tgt Ion: 59 Resp: 162672
Ion Ratio Lower Upper
59 100
57 11.4 8.2 12.4



#18
1,1-Dichloroethene
Concen: 9.774 ppbv
RT: 2.039 min Scan# 603
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 96 Resp: 46544
Ion Ratio Lower Upper
96 100
61 204.7 173.4 260.0
98 62.1 53.2 79.8

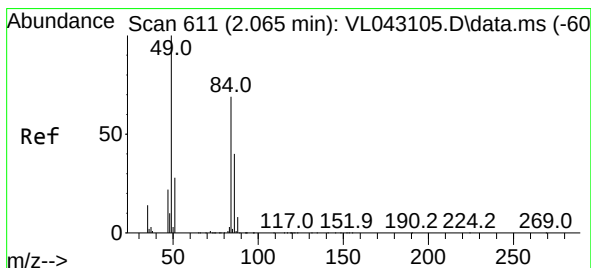
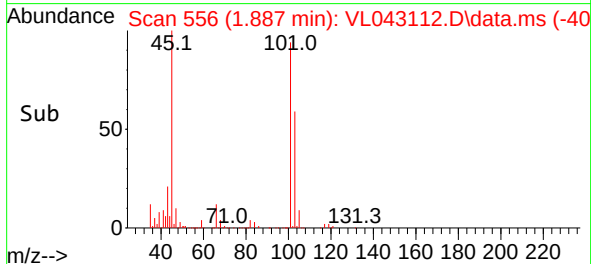
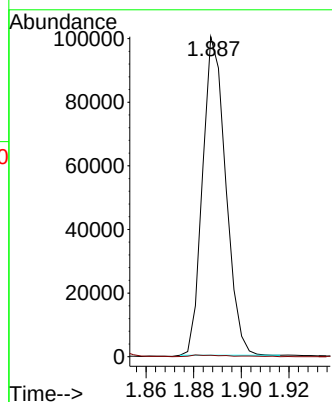
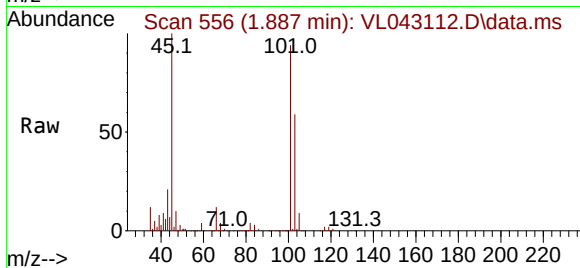




#19
Isopropyl Alcohol
Concen: 8.248 ppbv
RT: 1.887 min Scan# 556
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

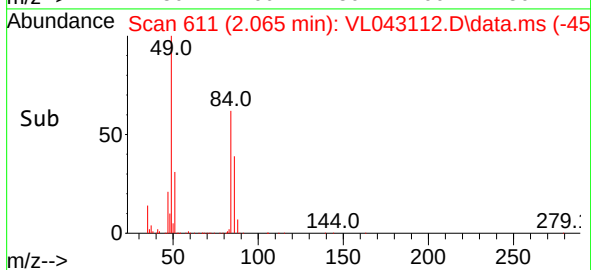
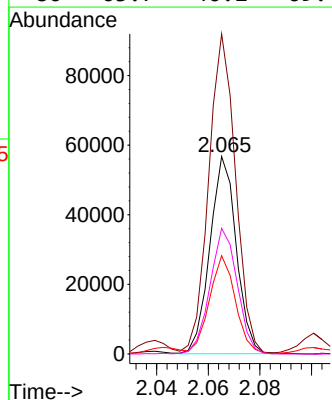
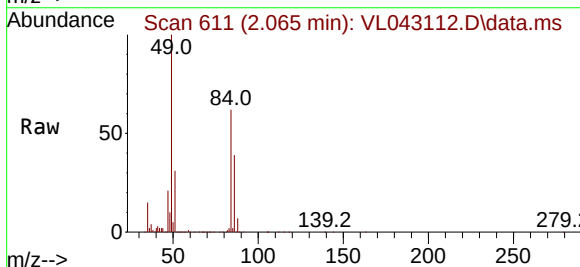
Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

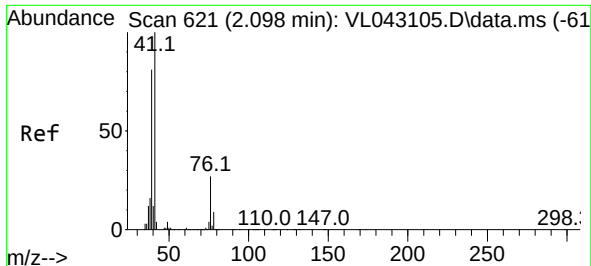
Tgt Ion: 45 Resp: 67552
Ion Ratio Lower Upper
45 100
58 41.1 31.3 46.9



#20
Methylene Chloride
Concen: 7.757 ppbv
RT: 2.065 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 84 Resp: 40319
Ion Ratio Lower Upper
84 100
49 161.4 116.6 175.0
51 49.4 34.8 52.2
86 63.7 46.2 69.4

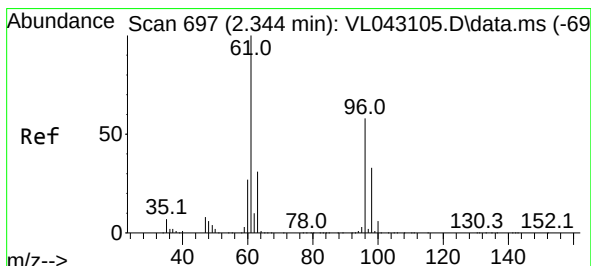
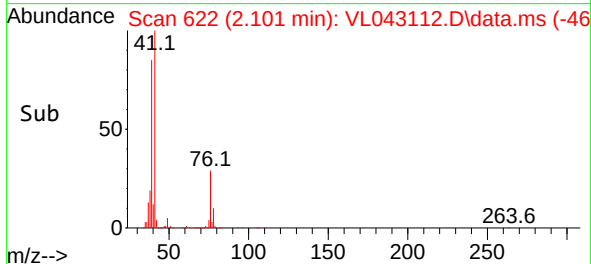
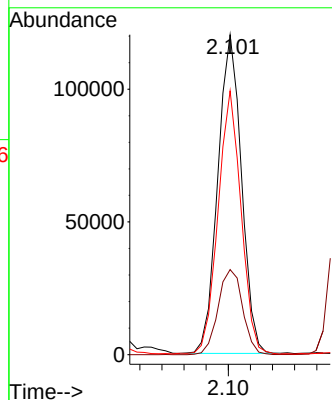
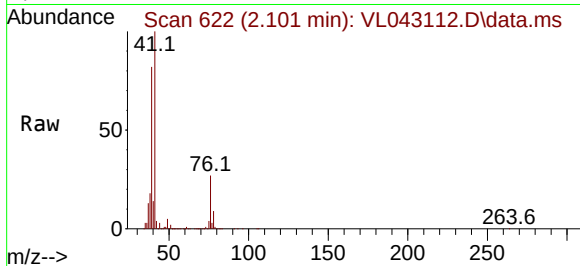




#21
 Allyl Chloride
 Concen: 9.181 ppbv
 RT: 2.101 min Scan# 61
 Delta R.T. 0.003 min
 Lab File: VL043112.D
 Acq: 14 Oct 2025 14:51

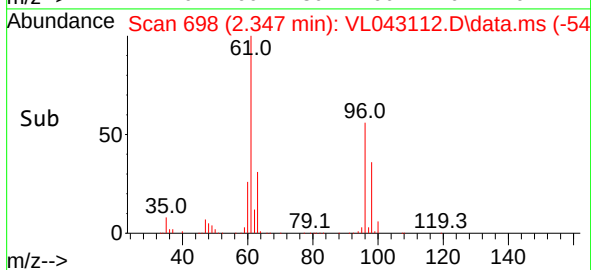
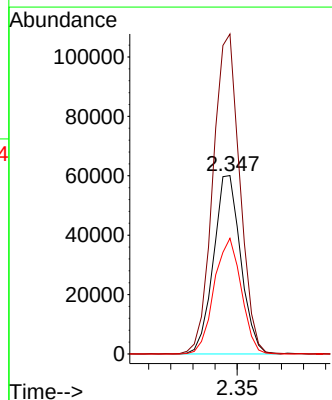
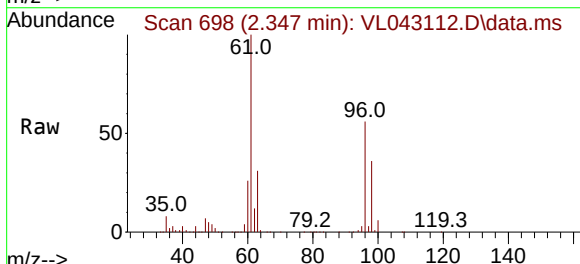
Instrument :
 MSVOA_1
 ClientSampleId :
 ICVVL101425

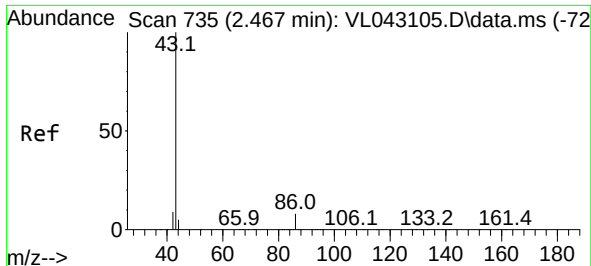
Tgt Ion: 41 Resp: 88965
 Ion Ratio Lower Upper
 41 100
 76 27.7 21.5 32.3
 39 80.2 60.8 91.2



#22
 trans-1,2-Dichloroethene
 Concen: 9.011 ppbv
 RT: 2.347 min Scan# 698
 Delta R.T. 0.003 min
 Lab File: VL043112.D
 Acq: 14 Oct 2025 14:51

Tgt Ion: 96 Resp: 51295
 Ion Ratio Lower Upper
 96 100
 61 179.2 137.0 205.6
 98 64.8 45.5 68.3



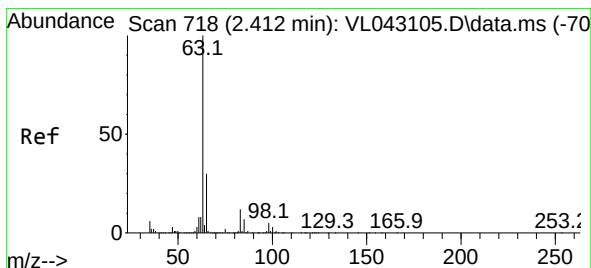
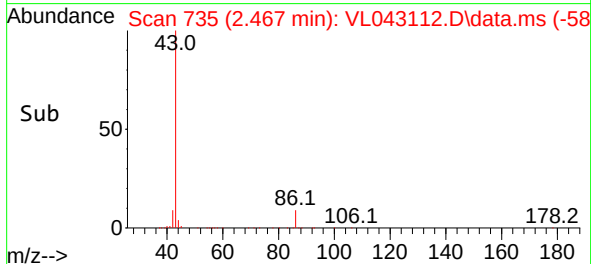
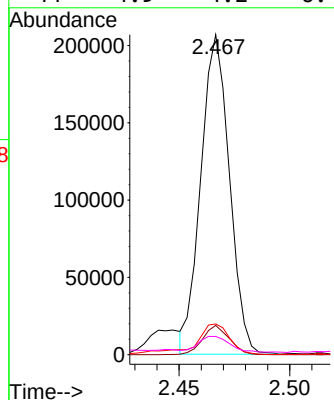
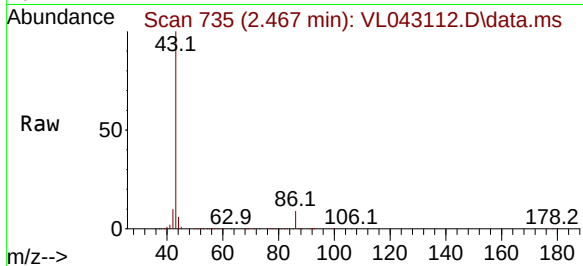


#23
 Vinyl Acetate
 Concen: 9.621 ppbv
 RT: 2.467 min Scan# 719
 Delta R.T. -0.000 min
 Lab File: VL043112.D
 Acq: 14 Oct 2025 14:51

Instrument :
 MSVOA_1
 ClientSampleId :
 ICVVL101425

Tgt Ion: 43 Resp: 185329

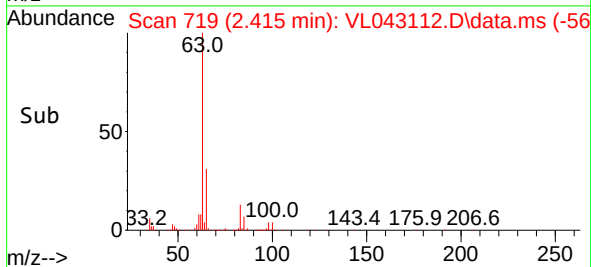
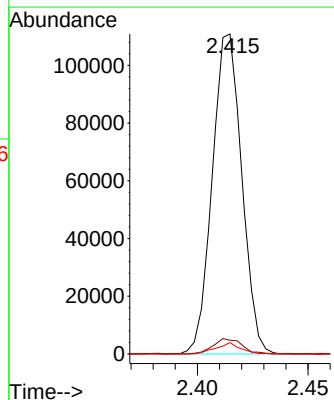
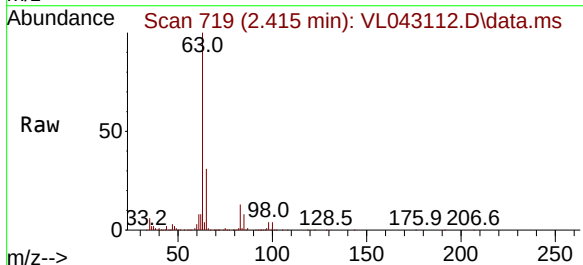
Ion	Ratio	Lower	Upper
43	100		
86	9.2	6.2	9.2
42	9.5	7.6	11.4
44	4.9	4.2	6.4

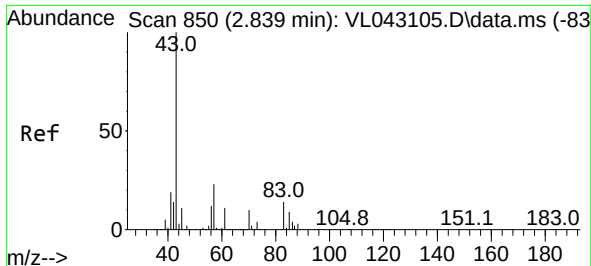


#24
 1,1-Dichloroethane
 Concen: 9.355 ppbv
 RT: 2.415 min Scan# 719
 Delta R.T. 0.003 min
 Lab File: VL043112.D
 Acq: 14 Oct 2025 14:51

Tgt Ion: 63 Resp: 102877

Ion	Ratio	Lower	Upper
63	100		
98	4.3	2.6	7.8
100	3.5	1.5	4.4



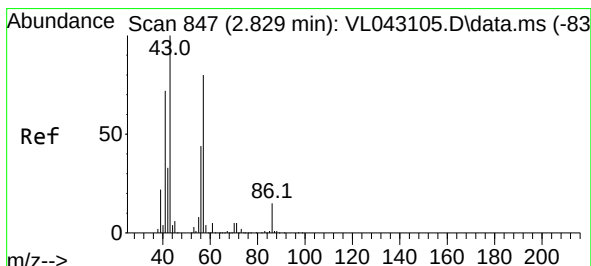
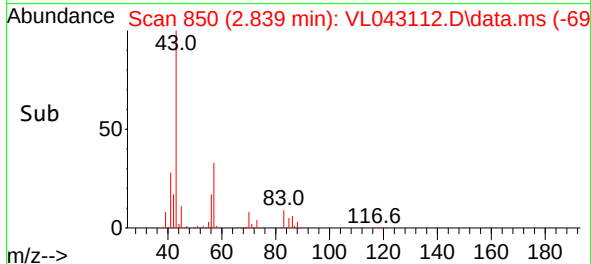
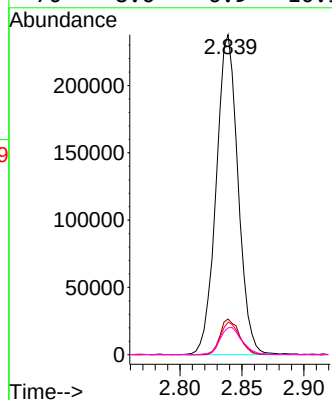
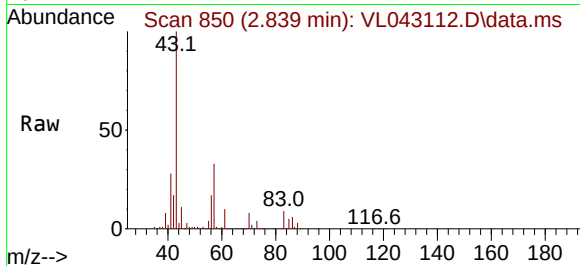


#25
Ethyl Acetate
Concen: 8.966 ppbv
RT: 2.839 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Tgt Ion: 43 Resp: 292399

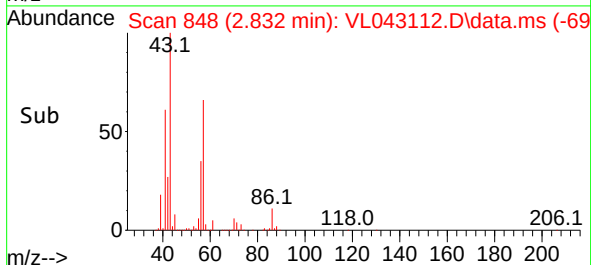
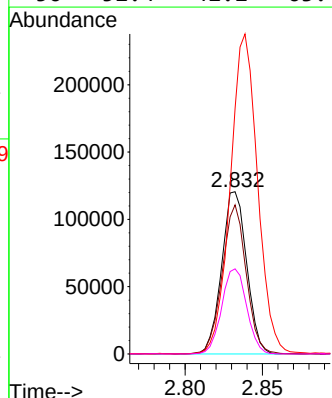
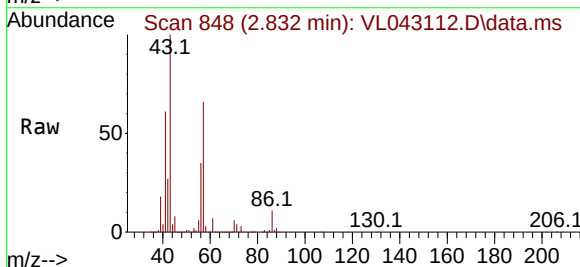
Ion	Ratio	Lower	Upper
43	100		
45	10.0	7.8	11.8
61	9.0	7.0	10.6
70	8.6	6.9	10.3

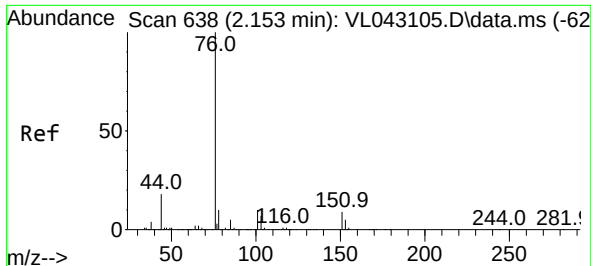


#26
Hexane
Concen: 9.015 ppbv
RT: 2.832 min Scan# 848
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 57 Resp: 135463

Ion	Ratio	Lower	Upper
57	100		
41	88.9	71.4	107.0
43	216.8	178.5	267.7
56	52.4	42.2	63.4

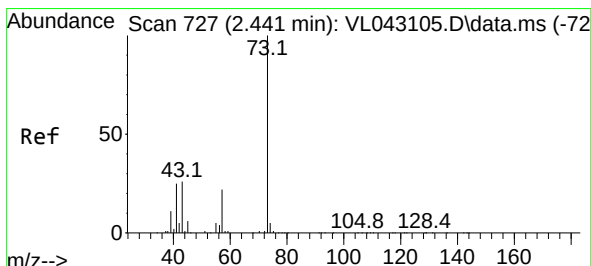
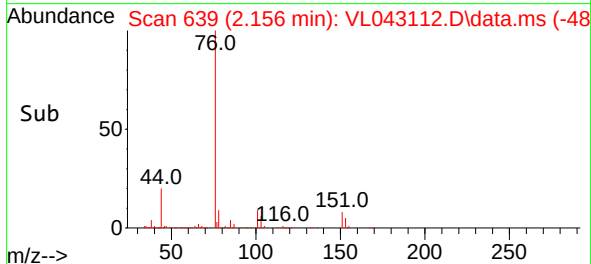
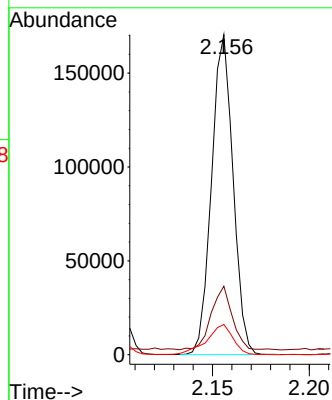
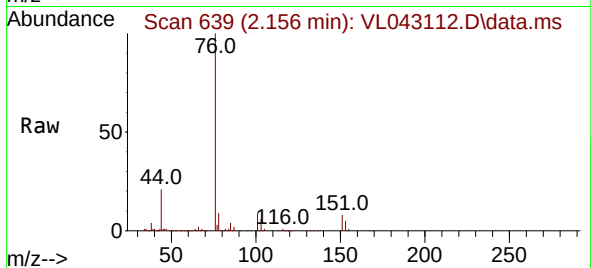




#27
Carbon Disulfide
Concen: 9.520 ppbv
RT: 2.156 min Scan# 611
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

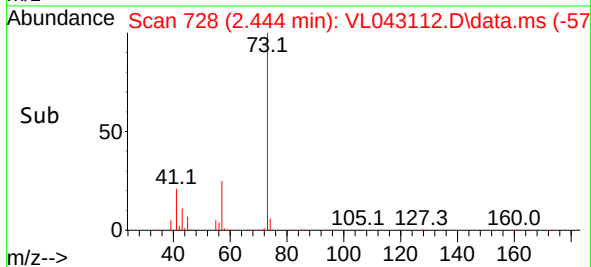
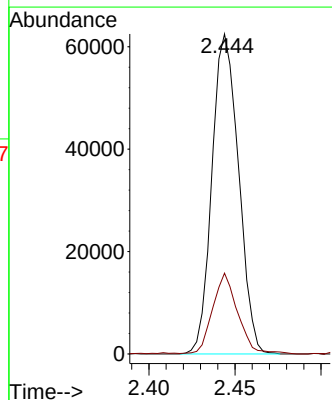
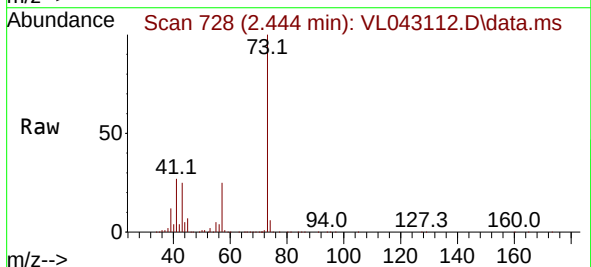
Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

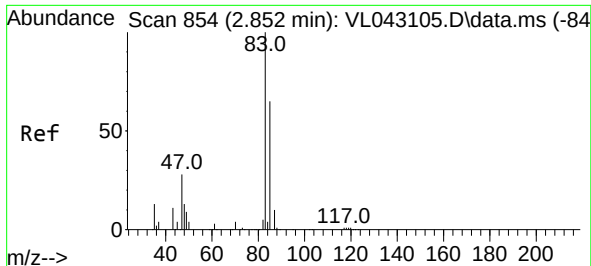
Tgt Ion: 76 Resp: 131064
Ion Ratio Lower Upper
76 100
44 20.7 16.7 25.1
78 11.7 9.3 13.9



#28
Methyl tert-Butyl Ether
Concen: 9.839 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 73 Resp: 67260
Ion Ratio Lower Upper
73 100
57 24.1 20.5 30.7

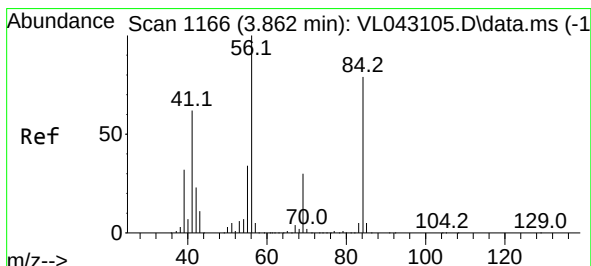
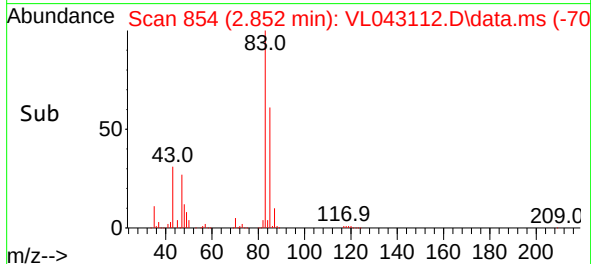
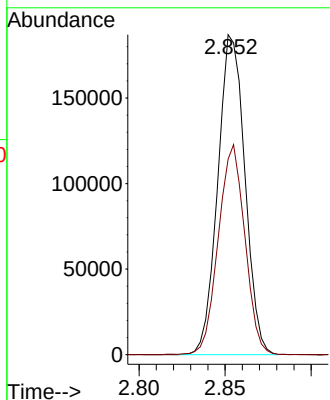
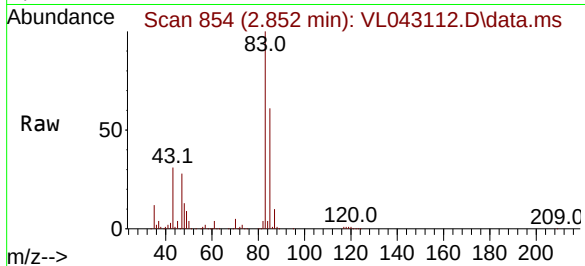




#29
Chloroform
Concen: 9.412 ppbv
RT: 2.852 min Scan# 854
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

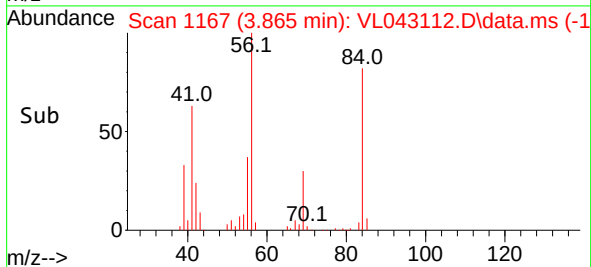
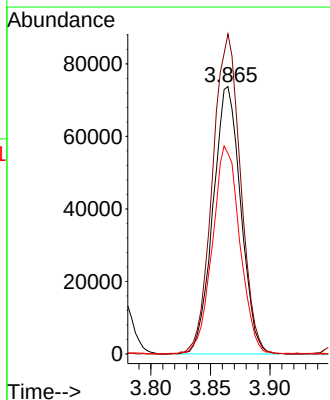
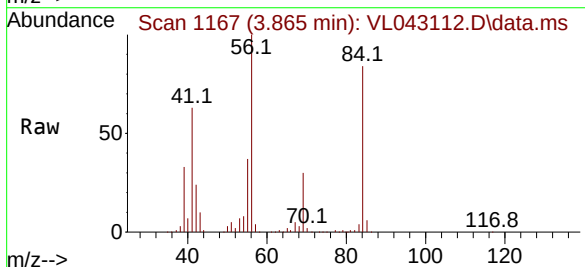
Instrument :
MSVOA_1
ClientSampleId :
ICVVL101425

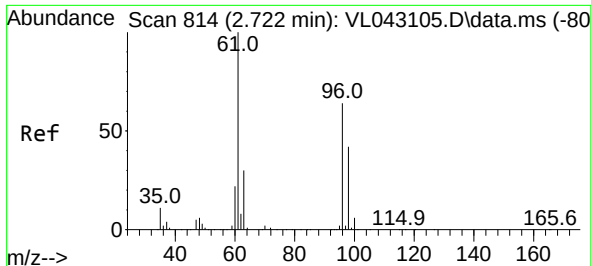
Tgt Ion: 83 Resp: 204925
Ion Ratio Lower Upper
83 100
85 61.0 51.8 77.6



#30
Cyclohexane
Concen: 9.096 ppbv
RT: 3.865 min Scan# 1167
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 84 Resp: 119287
Ion Ratio Lower Upper
84 100
56 120.8 100.9 151.3
41 77.4 63.8 95.6

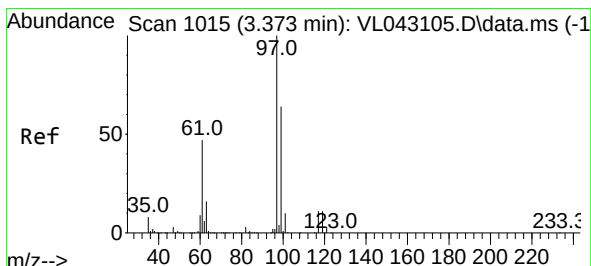
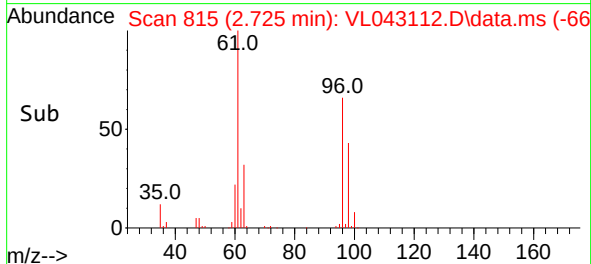
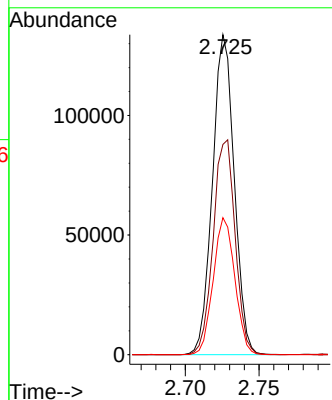
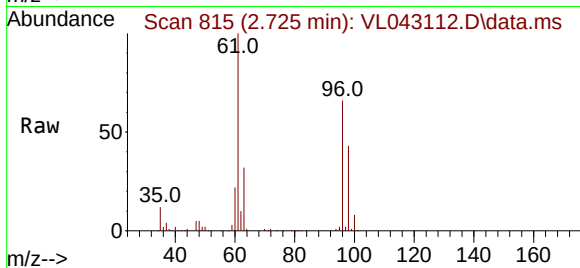




#31
 cis-1,2-Dichloroethene
 Concen: 9.580 ppbv
 RT: 2.725 min Scan# 814
 Delta R.T. 0.003 min
 Lab File: VL043112.D
 Acq: 14 Oct 2025 14:51

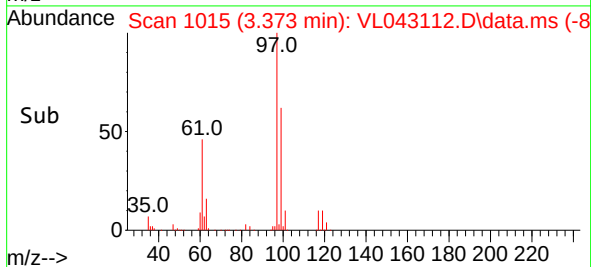
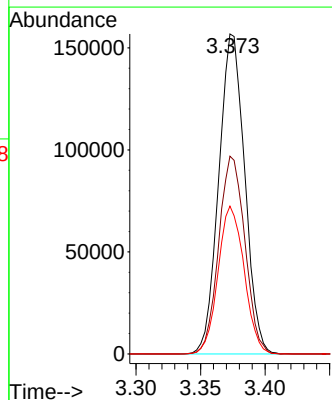
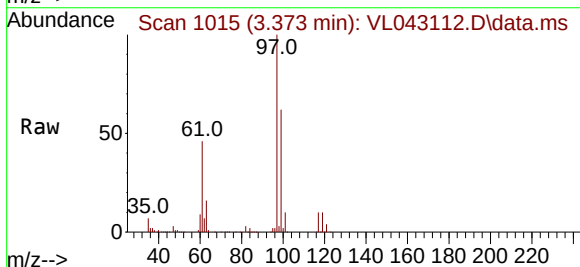
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL101425

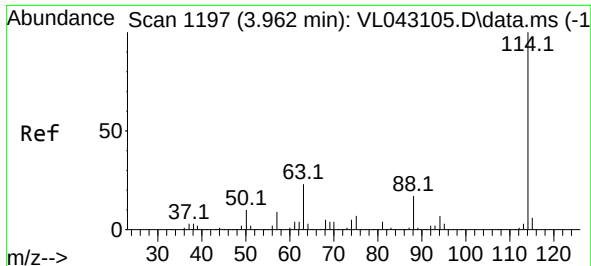
Tgt Ion: 61 Resp: 137462
 Ion Ratio Lower Upper
 61 100
 96 65.7 51.0 76.6
 98 42.8 33.5 50.3



#32
 1,1,1-Trichloroethane
 Concen: 9.666 ppbv
 RT: 3.373 min Scan# 1015
 Delta R.T. -0.000 min
 Lab File: VL043112.D
 Acq: 14 Oct 2025 14:51

Tgt Ion: 97 Resp: 219167
 Ion Ratio Lower Upper
 97 100
 99 62.3 51.3 76.9
 61 46.4 38.4 57.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.965 min Scan# 1198

Delta R.T. 0.003 min

Lab File: VL043112.D

Acq: 14 Oct 2025 14:51

Instrument :

MSVOA_1

ClientSampleId :

ICVVL101425

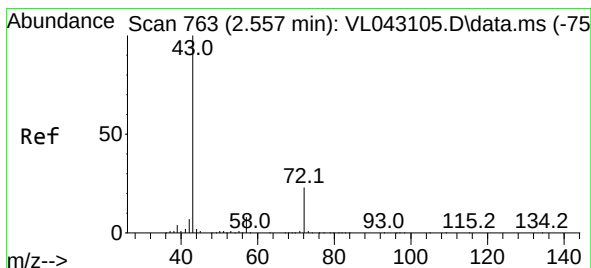
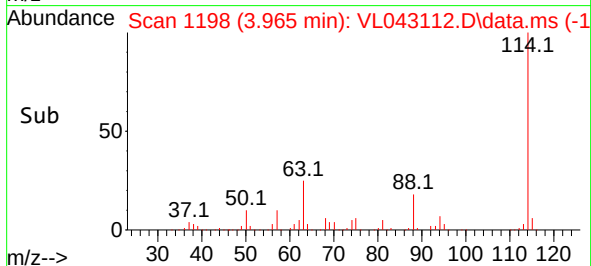
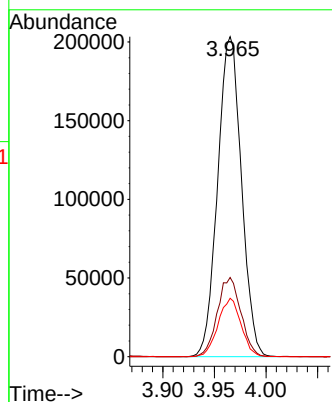
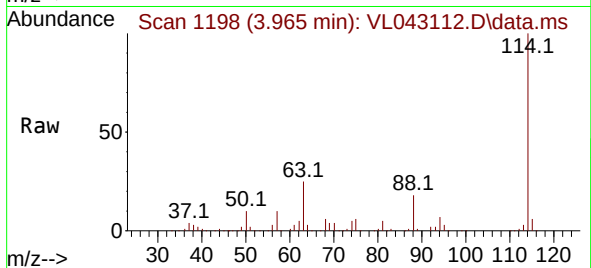
Tgt Ion:114 Resp: 325610

Ion Ratio Lower Upper

114 100

63 24.6 19.3 28.9

88 17.6 13.9 20.9



#34

2-Butanone

Concen: 8.624 ppbv

RT: 2.560 min Scan# 764

Delta R.T. 0.003 min

Lab File: VL043112.D

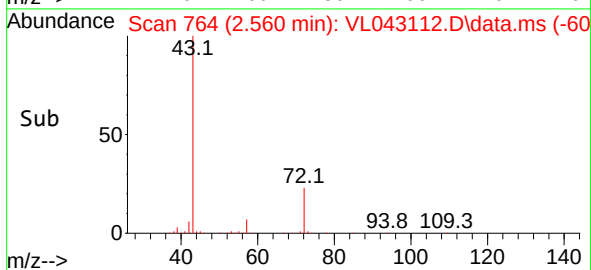
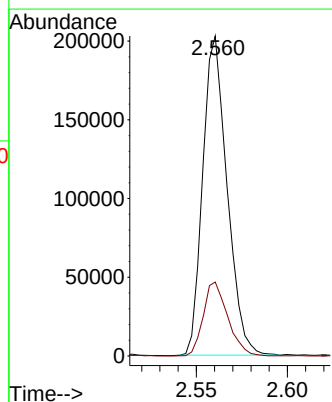
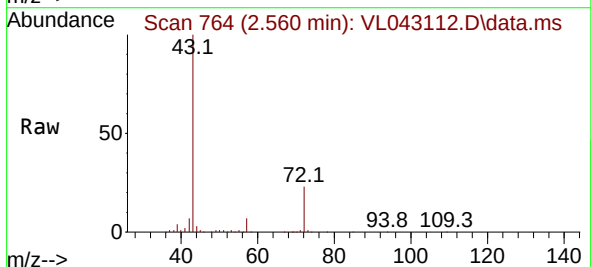
Acq: 14 Oct 2025 14:51

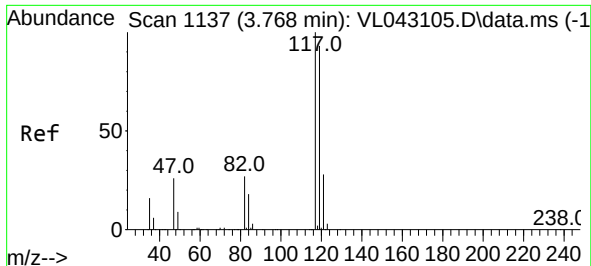
Tgt Ion: 43 Resp: 188755

Ion Ratio Lower Upper

43 100

72 23.4 18.4 27.6

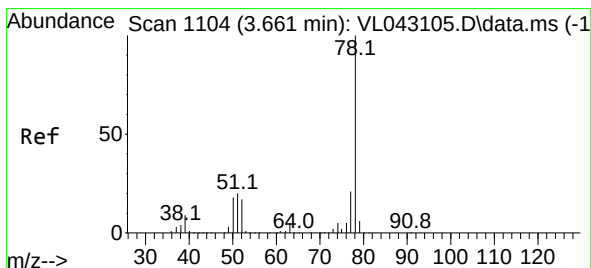
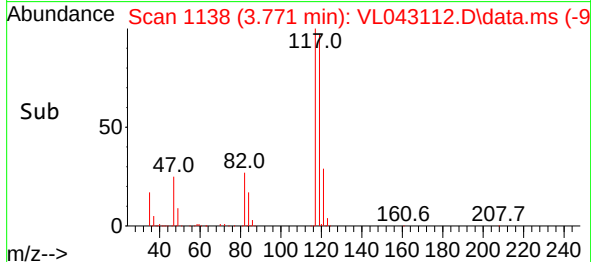
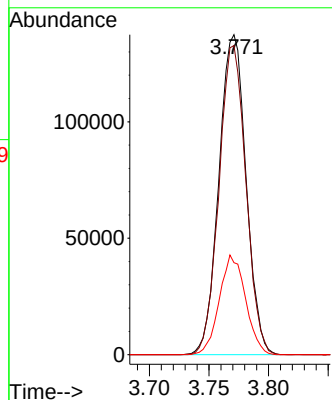
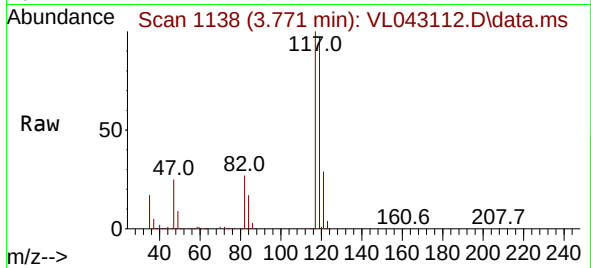




#35
Carbon Tetrachloride
Concen: 9.298 ppbv
RT: 3.771 min Scan# 1137
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

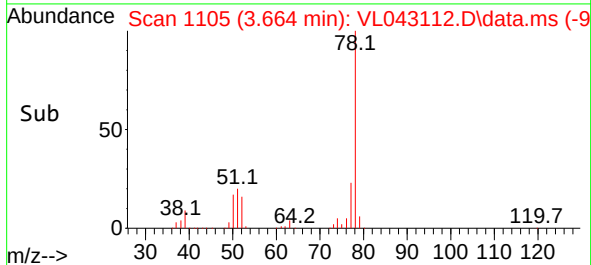
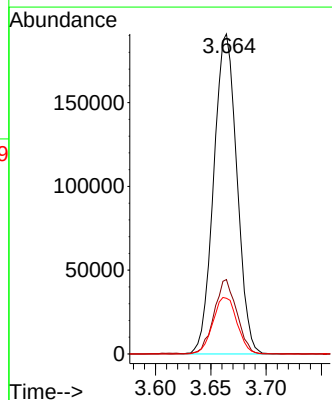
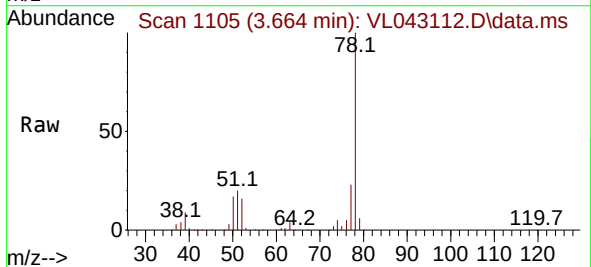
Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

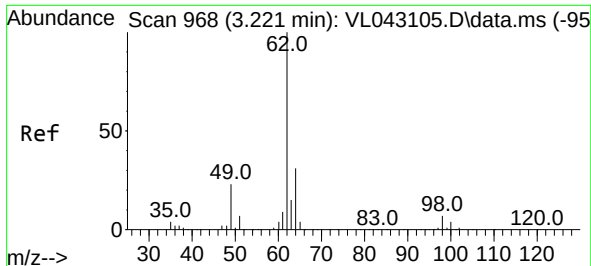
Tgt Ion:117 Resp: 217678
Ion Ratio Lower Upper
117 100
119 96.6 74.1 111.1
121 28.7 22.2 33.2



#36
Benzene
Concen: 9.077 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 78 Resp: 278365
Ion Ratio Lower Upper
78 100
77 23.2 17.0 25.6
50 17.4 14.6 22.0

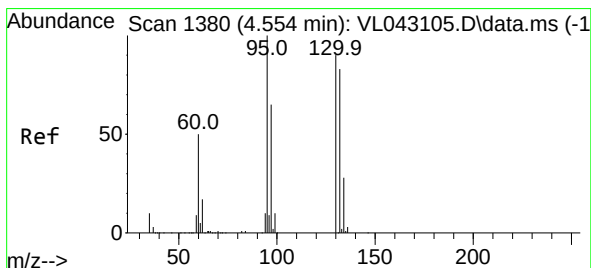
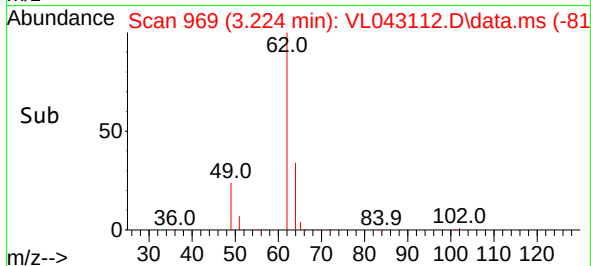
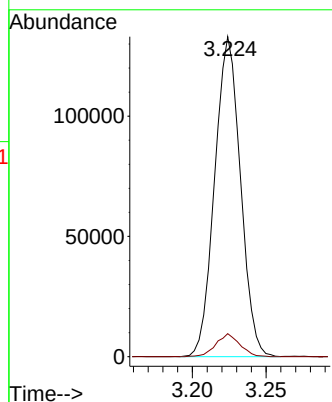
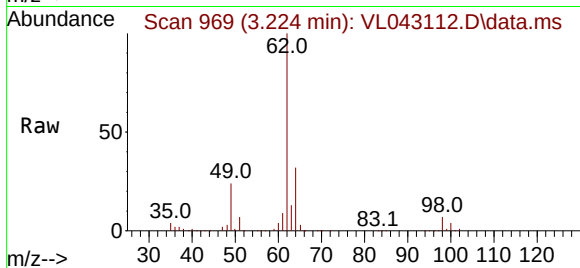




#37
1,2-Dichloroethane
Concen: 9.156 ppbv
RT: 3.224 min Scan# 90
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

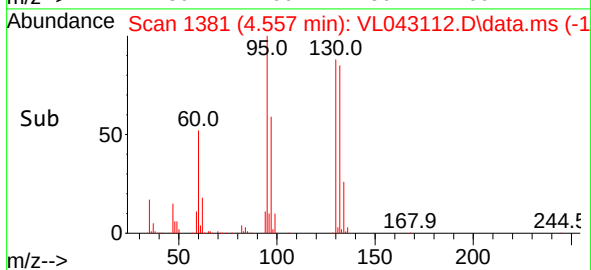
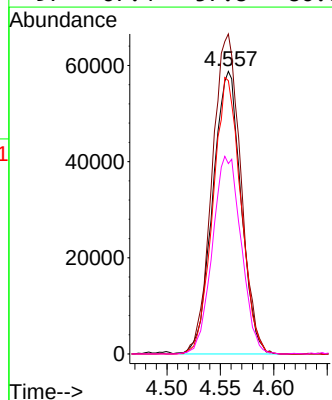
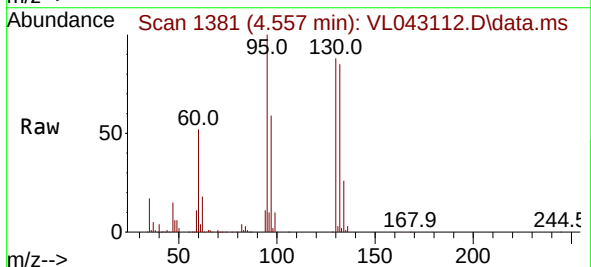
Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

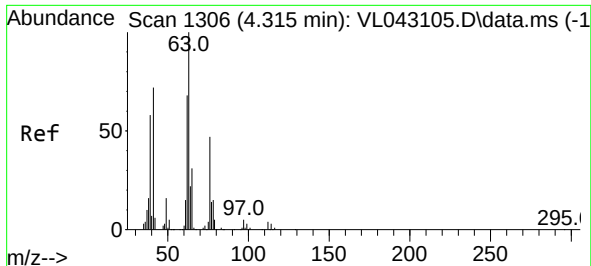
Tgt Ion: 62 Resp: 161750
Ion Ratio Lower Upper
62 100
98 6.7 5.8 8.6



#38
Trichloroethene
Concen: 8.453 ppbv
RT: 4.557 min Scan# 1381
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion:130 Resp: 108261
Ion Ratio Lower Upper
130 100
95 113.2 88.6 133.0
132 96.7 73.4 110.0
97 67.4 57.8 86.6





#39

1,2-Dichloropropane

Concen: 8.971 ppbv

RT: 4.321 min Scan# 11

Delta R.T. 0.006 min

Lab File: VL043112.D

Acq: 14 Oct 2025 14:51

Instrument :

MSVOA_L

ClientSampleId :

ICVVL101425

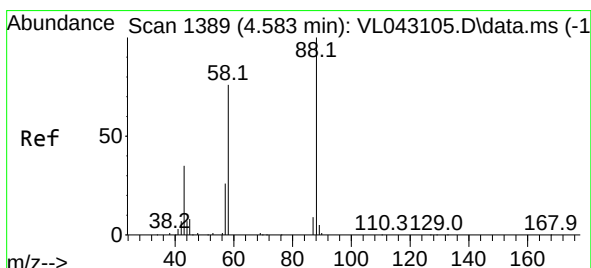
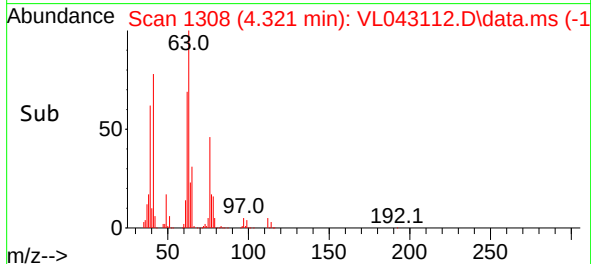
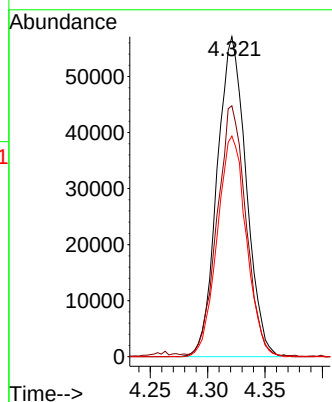
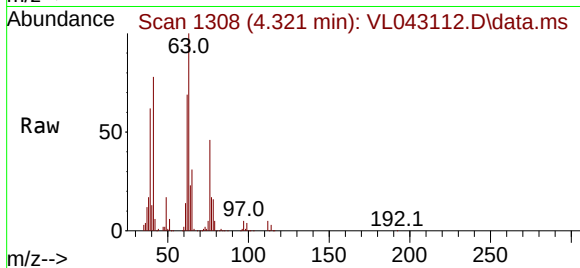
Tgt Ion: 63 Resp: 100580

Ion Ratio Lower Upper

63 100

41 78.0 58.0 87.0

62 69.0 54.7 82.1



#40

1,4-Dioxane

Concen: 8.265 ppbv

RT: 4.587 min Scan# 1390

Delta R.T. 0.003 min

Lab File: VL043112.D

Acq: 14 Oct 2025 14:51

Tgt Ion: 88 Resp: 41464

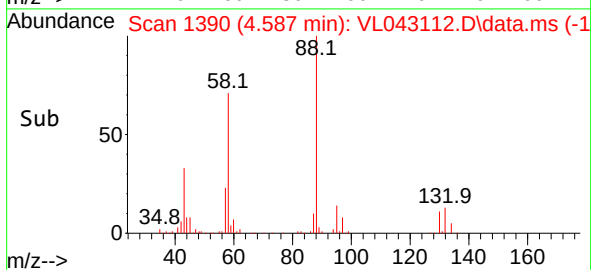
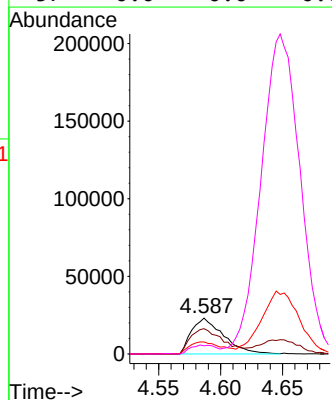
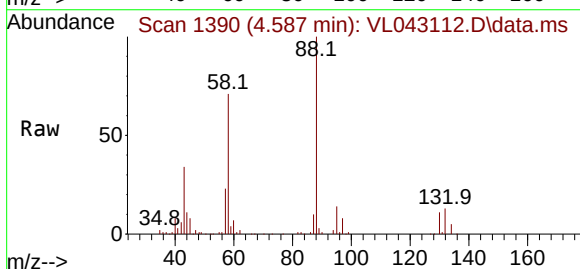
Ion Ratio Lower Upper

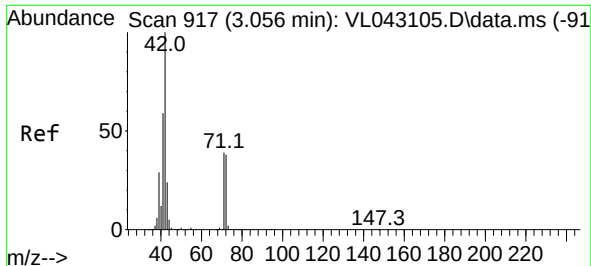
88 100

58 74.2 61.1 91.7

43 35.4 24.0 36.0

57 0.0 0.0 0.0

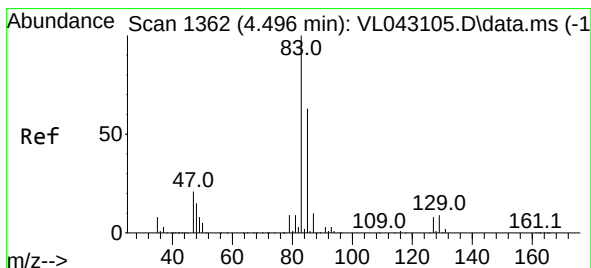
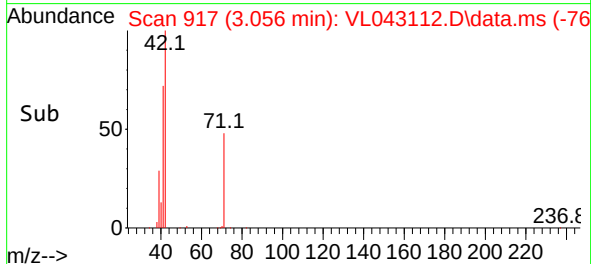
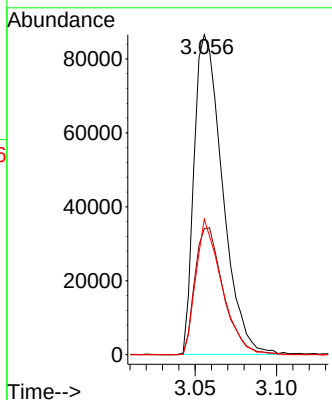
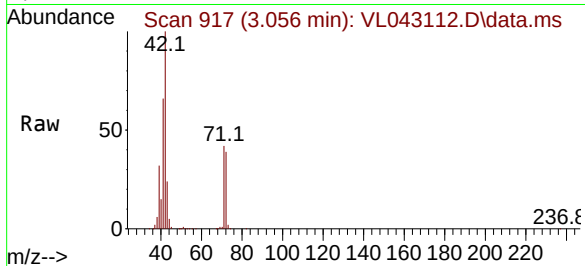




#41
Tetrahydrofuran
Concen: 8.553 ppbv
RT: 3.056 min Scan# 917
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

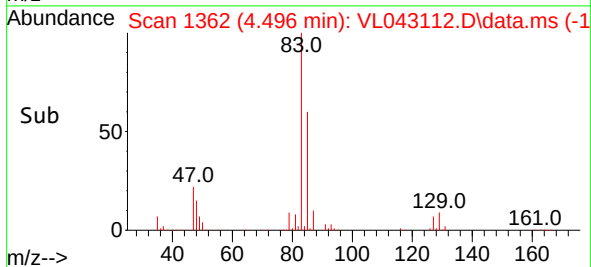
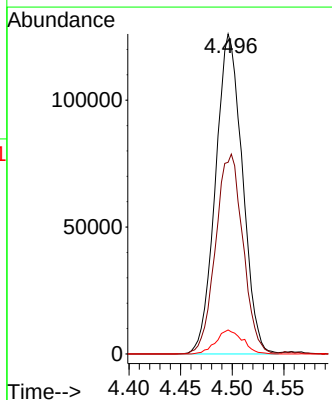
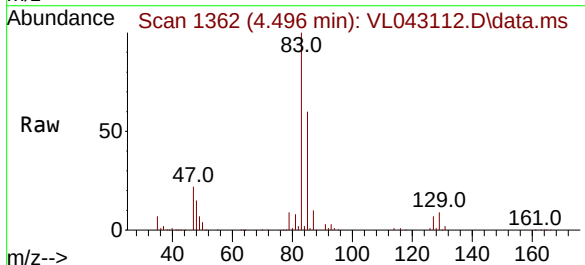
Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

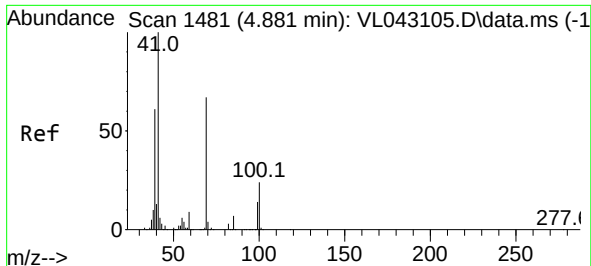
Tgt Ion:	42	Resp:	104701
Ion	Ratio	Lower	Upper
42	100		
72	39.8	31.3	46.9
71	38.8	30.4	45.6



#42
Bromodichloromethane
Concen: 9.336 ppbv
RT: 4.496 min Scan# 1362
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion:	83	Resp:	228288
Ion	Ratio	Lower	Upper
83	100		
85	59.8	50.6	75.8
127	7.5	6.3	9.5

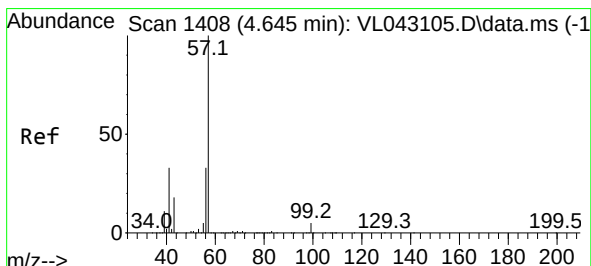
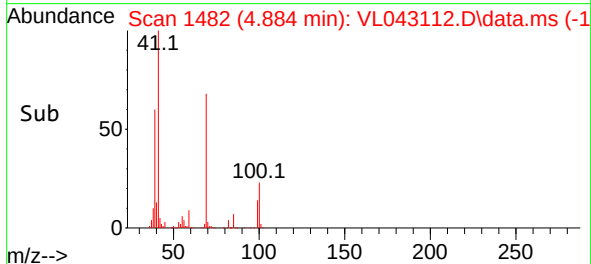
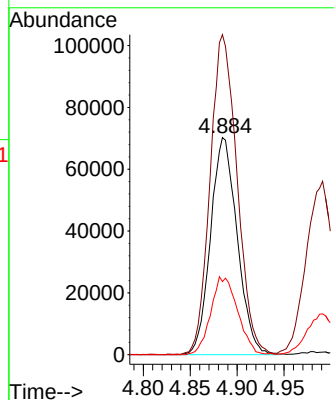
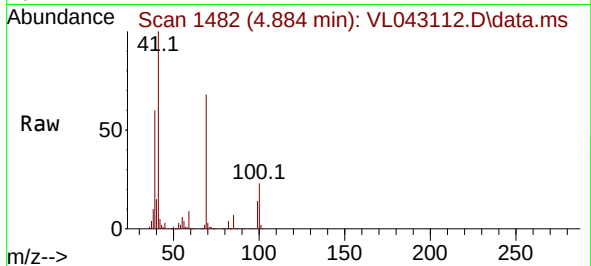




#43
Methyl Methacrylate
Concen: 8.898 ppbv
RT: 4.884 min Scan# 1481
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

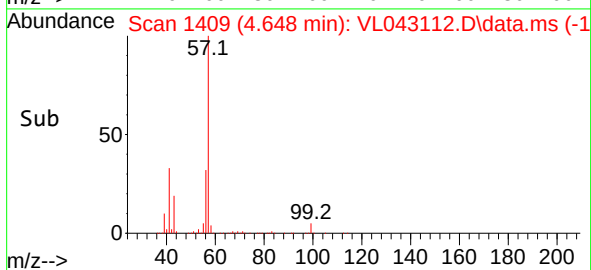
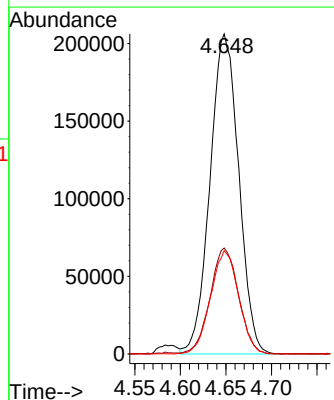
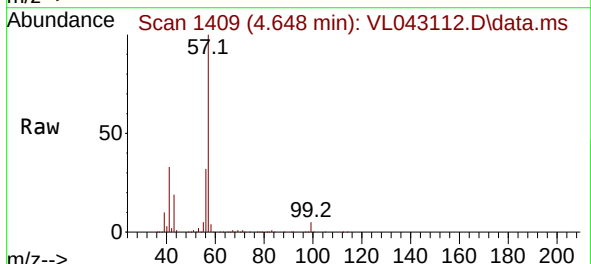
Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

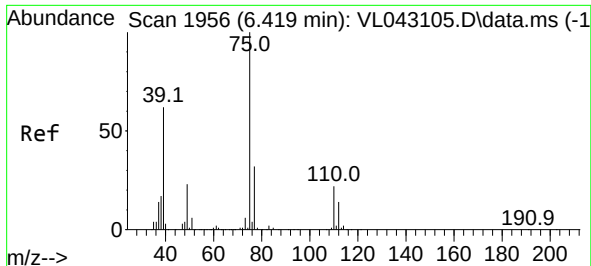
Tgt Ion: 69 Resp: 138593
Ion Ratio Lower Upper
69 100
41 149.1 120.5 180.7
100 36.3 29.0 43.4



#44
2,2,4-Trimethylpentane
Concen: 8.738 ppbv
RT: 4.648 min Scan# 1409
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 57 Resp: 452117
Ion Ratio Lower Upper
57 100
41 33.2 26.3 39.5
56 31.6 25.9 38.9

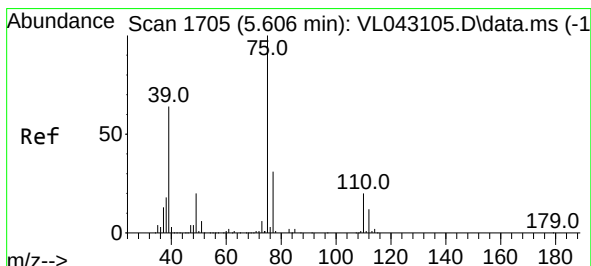
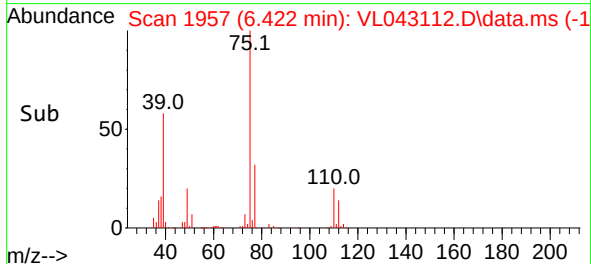
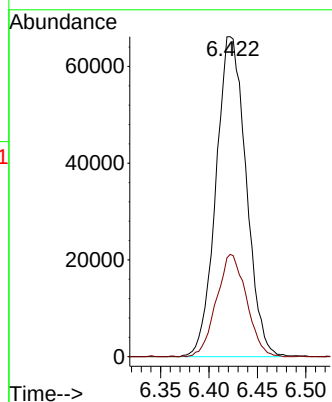
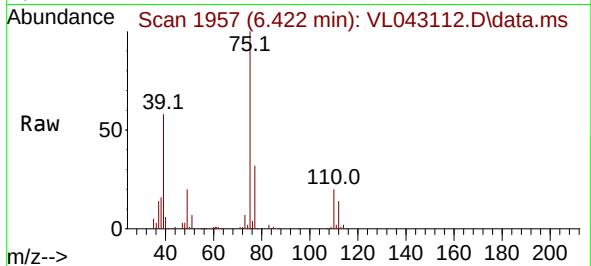




#45
 t-1,3-Dichloropropene
 Concen: 9.146 ppbv
 RT: 6.422 min Scan# 1956
 Delta R.T. 0.003 min
 Lab File: VL043112.D
 Acq: 14 Oct 2025 14:51

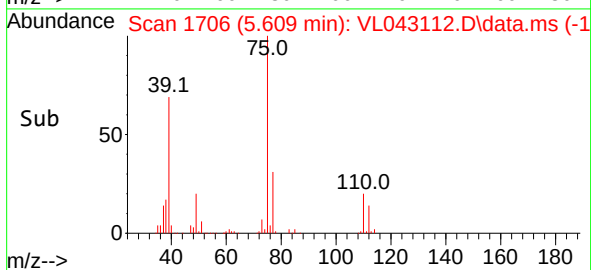
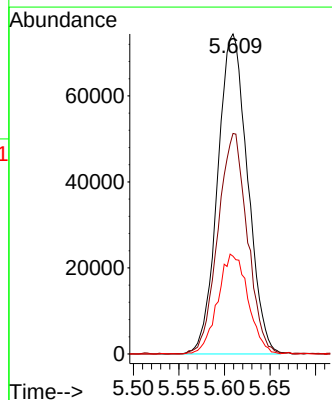
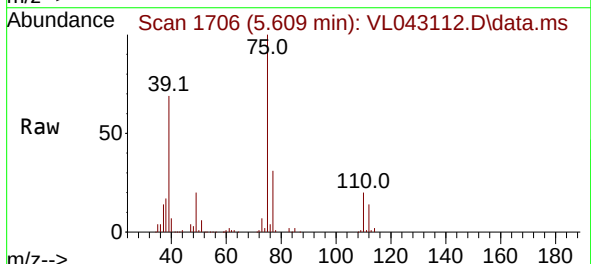
Instrument :
 MSVOA_1
 ClientSampleId :
 ICVVL101425

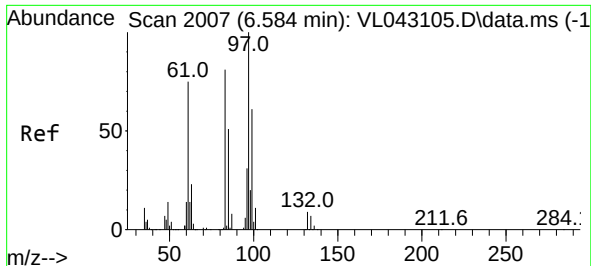
Tgt Ion: 75 Resp: 142964
 Ion Ratio Lower Upper
 75 100
 77 32.0 25.4 38.2



#46
 cis-1,3-Dichloropropene
 Concen: 9.106 ppbv
 RT: 5.609 min Scan# 1706
 Delta R.T. 0.003 min
 Lab File: VL043112.D
 Acq: 14 Oct 2025 14:51

Tgt Ion: 75 Resp: 170038
 Ion Ratio Lower Upper
 75 100
 39 68.8 51.0 76.6
 77 30.5 25.0 37.4





#47

1,1,2-Trichloroethane

Concen: 9.000 ppbv

RT: 6.590 min Scan# 2007

Delta R.T. 0.006 min

Lab File: VL043112.D

Acq: 14 Oct 2025 14:51

Instrument :

MSVOA_L

ClientSampleId :

ICVVL101425

Tgt Ion: 97 Resp: 108965

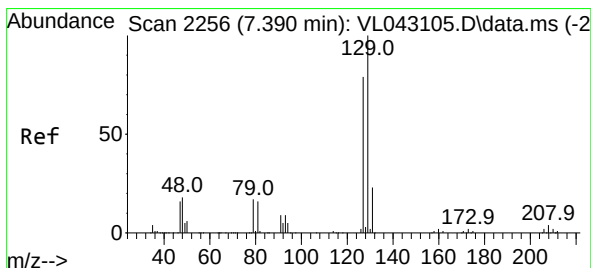
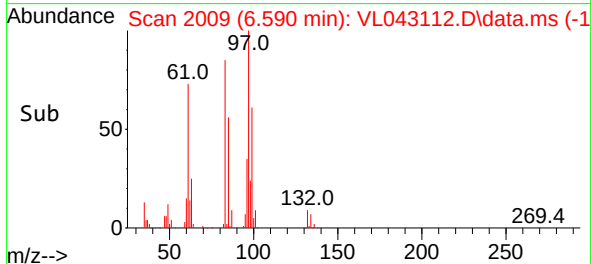
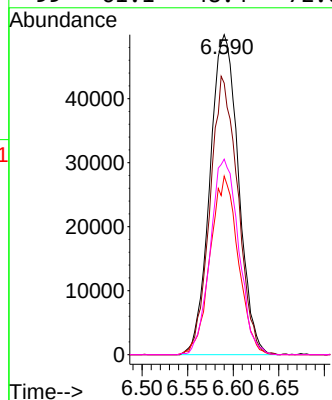
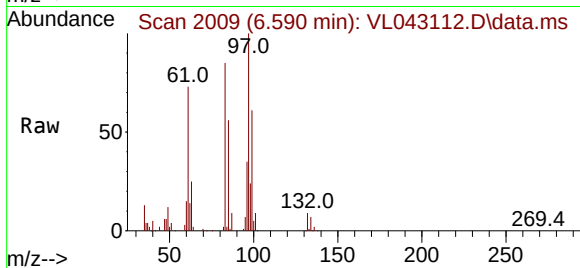
Ion Ratio Lower Upper

97 100

83 84.8 64.6 96.8

85 55.8 40.6 60.8

99 61.1 48.4 72.6



#48

Dibromochloromethane

Concen: 9.127 ppbv

RT: 7.396 min Scan# 2258

Delta R.T. 0.006 min

Lab File: VL043112.D

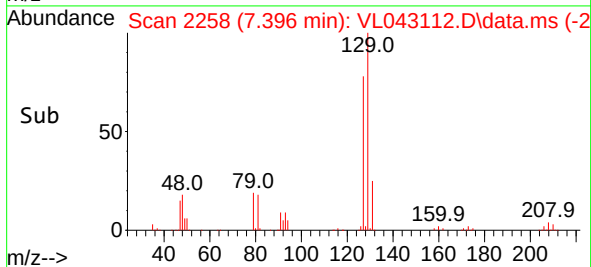
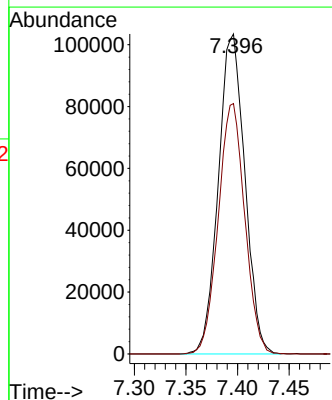
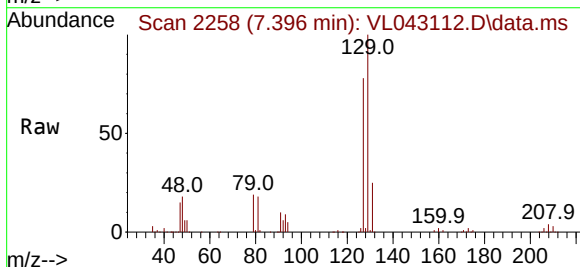
Acq: 14 Oct 2025 14:51

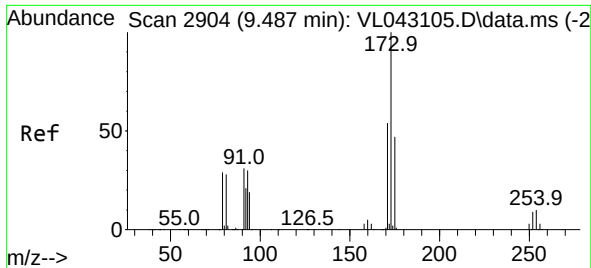
Tgt Ion: 129 Resp: 184757

Ion Ratio Lower Upper

129 100

127 78.3 39.3 117.9

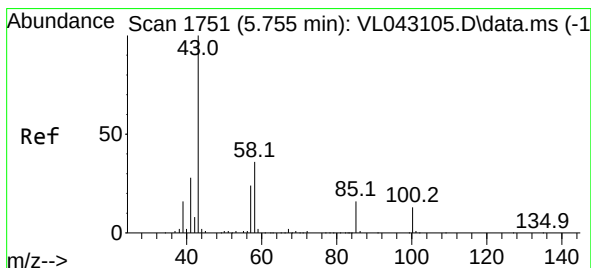
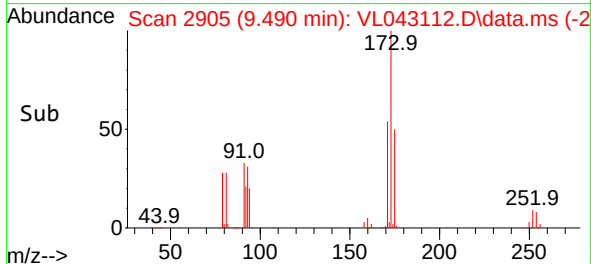
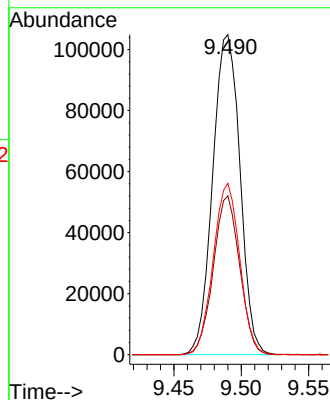
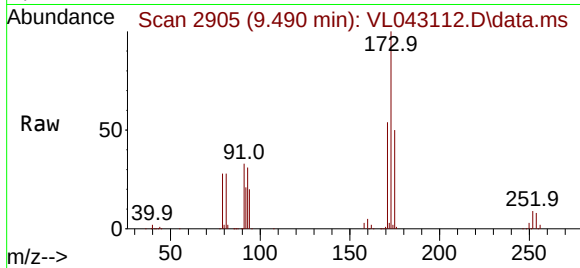




#49
Bromoform
Concen: 8.980 ppbv
RT: 9.490 min Scan# 2904
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

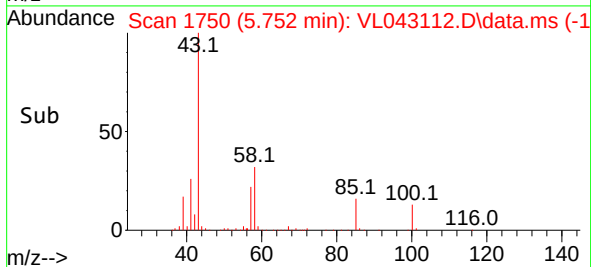
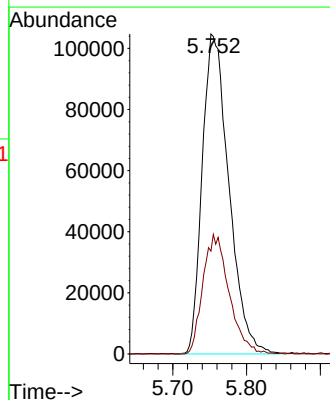
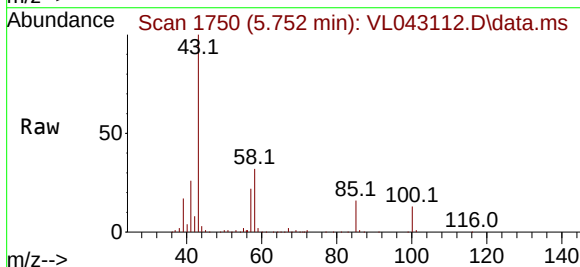
Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

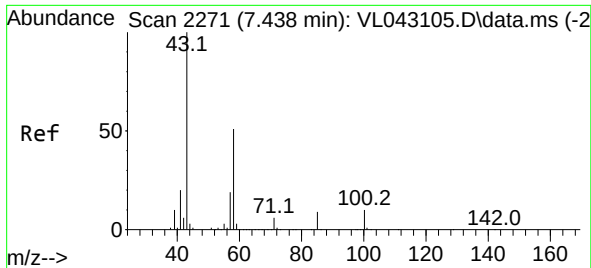
Tgt Ion:173 Resp: 147759
Ion Ratio Lower Upper
173 100
175 48.0 38.8 58.2
171 52.1 41.7 62.5



#50
4-Methyl-2-Pentanone
Concen: 8.709 ppbv
RT: 5.752 min Scan# 1750
Delta R.T. -0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 43 Resp: 263070
Ion Ratio Lower Upper
43 100
58 36.6 29.1 43.7

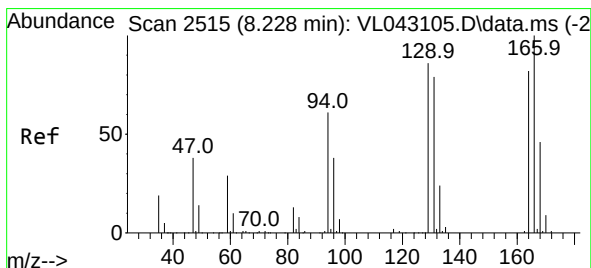
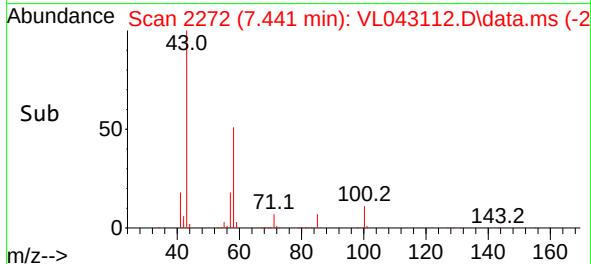
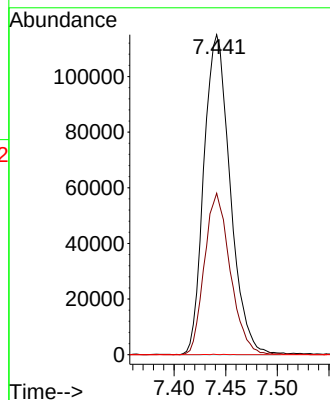
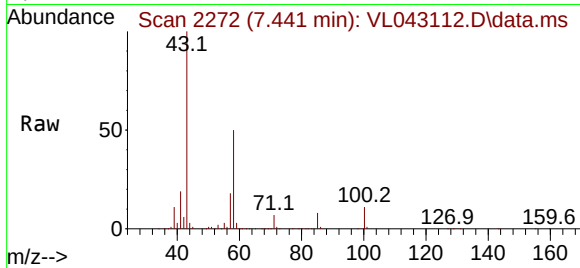




#51
2-Hexanone
Concen: 8.999 ppbv
RT: 7.441 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

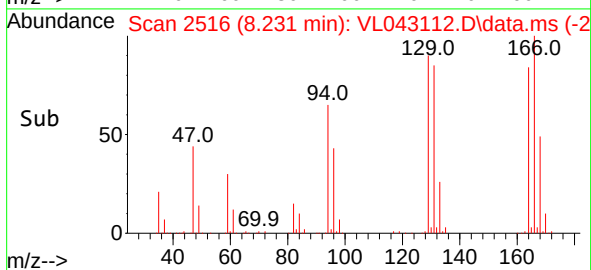
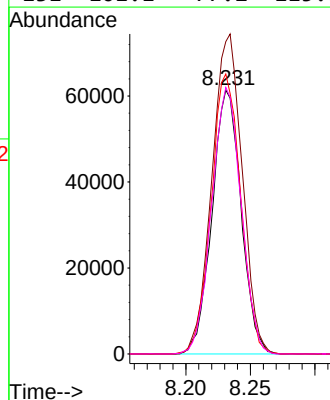
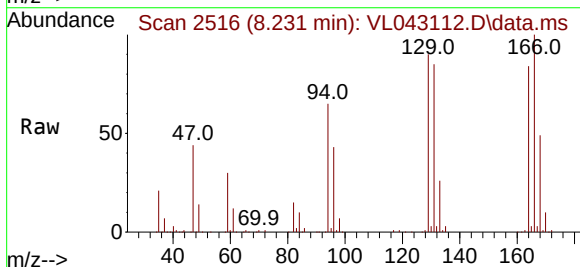
Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

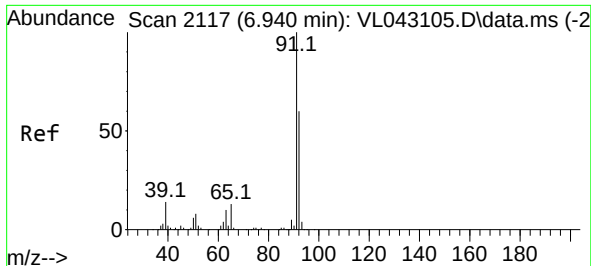
Tgt Ion: 43 Resp: 203876
Ion Ratio Lower Upper
43 100
58 49.6 40.4 60.6
98 0.1 0.1 0.1#



#52
Tetrachloroethene
Concen: 8.681 ppbv
RT: 8.231 min Scan# 2516
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion:164 Resp: 96000
Ion Ratio Lower Upper
164 100
166 118.4 97.6 146.4
129 106.2 84.5 126.7
131 101.1 77.2 115.8





#53

Toluene

Concen: 8.928 ppbv

RT: 6.943 min Scan# 2117

Delta R.T. 0.003 min

Lab File: VL043112.D

Acq: 14 Oct 2025 14:51

Instrument :

MSVOA_L

ClientSampleId :

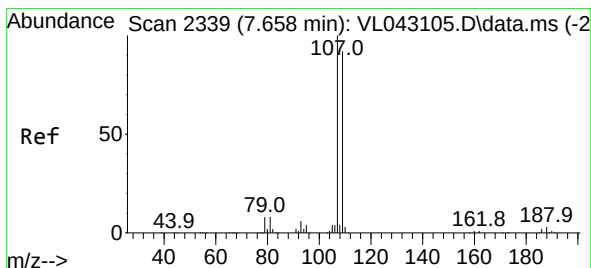
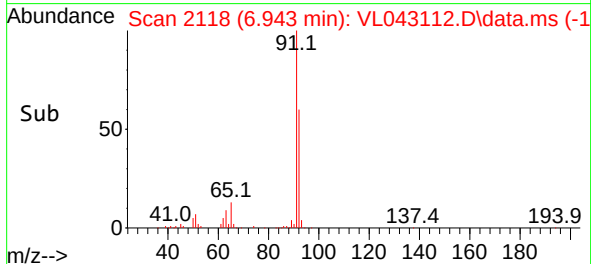
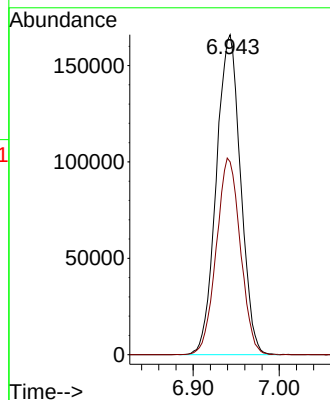
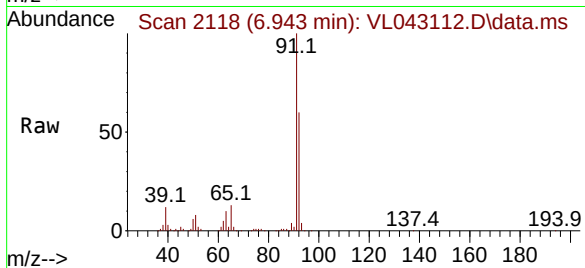
ICVVL101425

Tgt Ion: 91 Resp: 324944

Ion Ratio Lower Upper

91 100

92 61.0 48.8 73.2



#54

1,2-Dibromoethane

Concen: 8.856 ppbv

RT: 7.661 min Scan# 2340

Delta R.T. 0.003 min

Lab File: VL043112.D

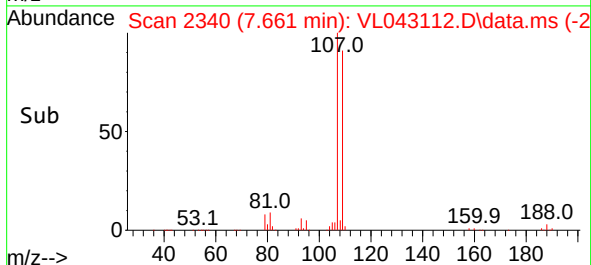
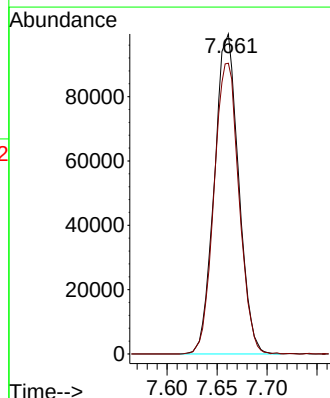
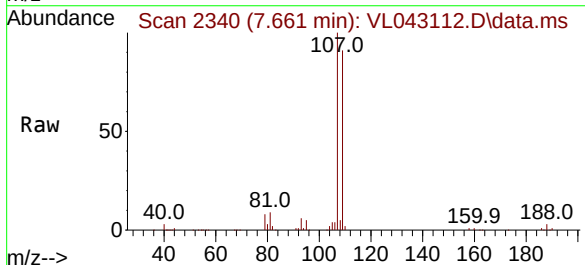
Acq: 14 Oct 2025 14:51

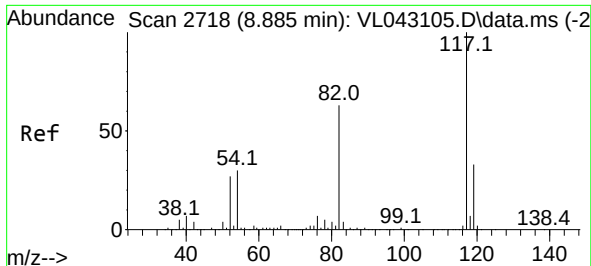
Tgt Ion: 107 Resp: 167936

Ion Ratio Lower Upper

107 100

109 90.9 73.4 110.2

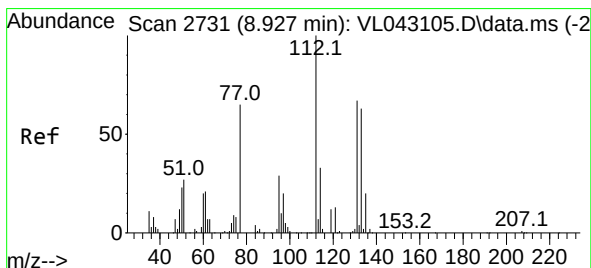
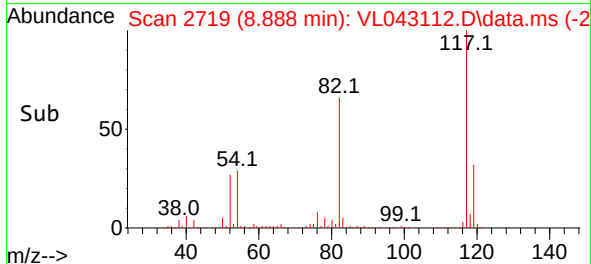
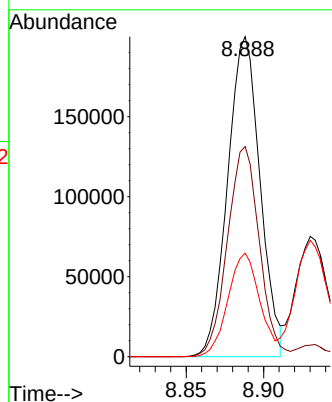
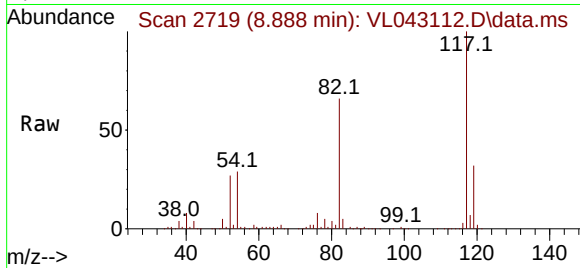




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2718
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

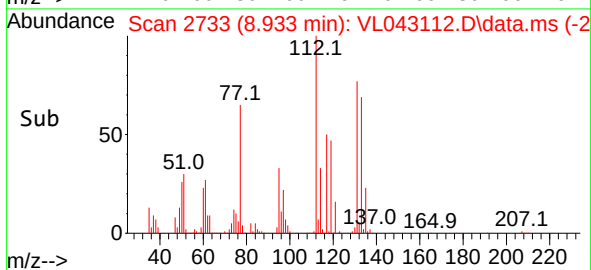
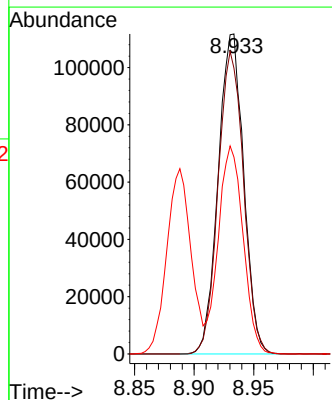
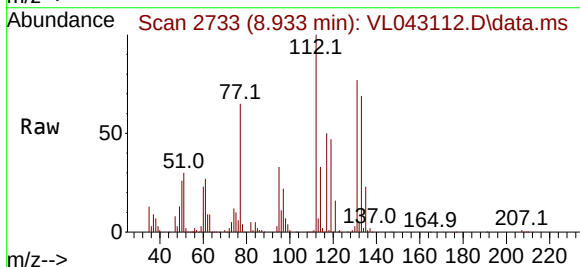
Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

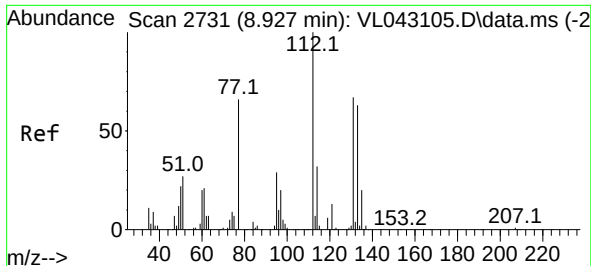
Tgt Ion:117 Resp: 291676
Ion Ratio Lower Upper
117 100
82 67.8 53.8 80.8
119 31.5 25.4 38.0



#56
1,1,1,2-Tetrachloroethane
Concen: 9.031 ppbv
RT: 8.933 min Scan# 2733
Delta R.T. 0.006 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion:131 Resp: 166059
Ion Ratio Lower Upper
131 100
133 94.2 75.7 113.5
119 60.4 50.6 76.0

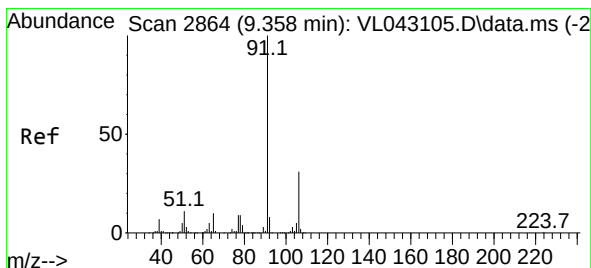
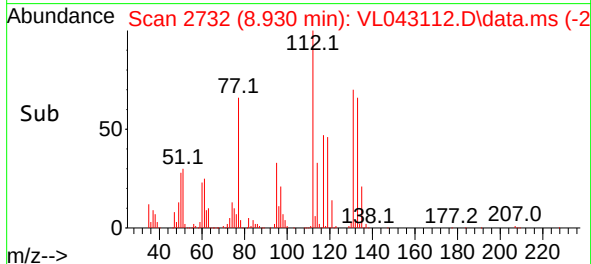
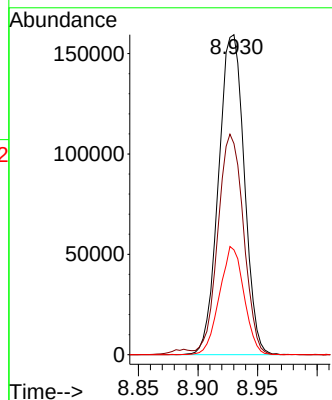
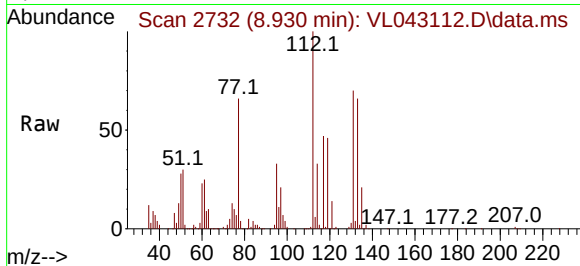




#57
Chlorobenzene
Concen: 8.770 ppbv
RT: 8.930 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

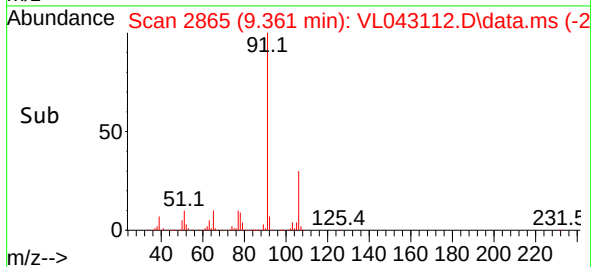
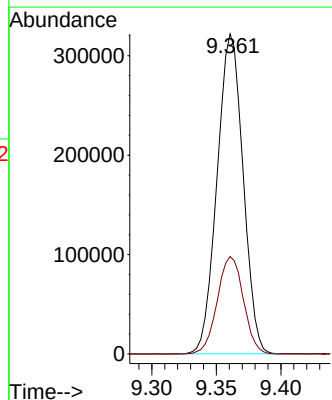
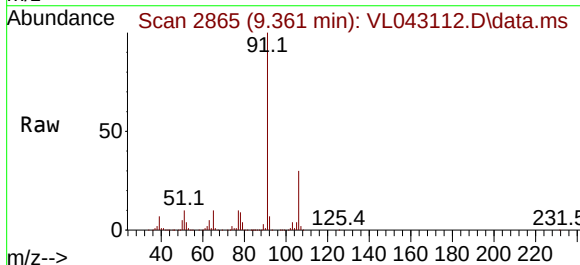
Instrument :
MSVOA_1
ClientSampleId :
ICVVL101425

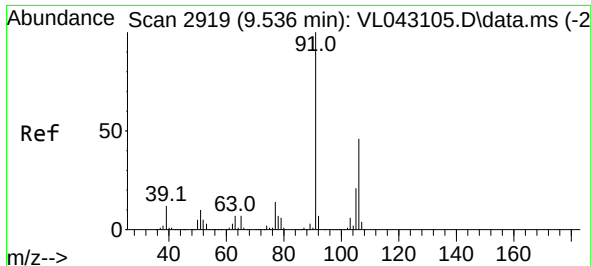
Tgt Ion:112 Resp: 239309
Ion Ratio Lower Upper
112 100
77 65.9 53.3 79.9
114 32.7 29.3 35.8



#58
Ethyl Benzene
Concen: 8.990 ppbv
RT: 9.361 min Scan# 2865
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 91 Resp: 450029
Ion Ratio Lower Upper
91 100
106 30.5 24.8 37.2

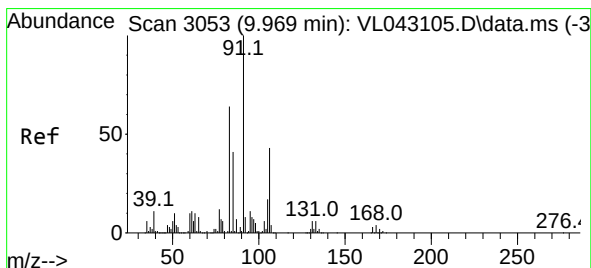
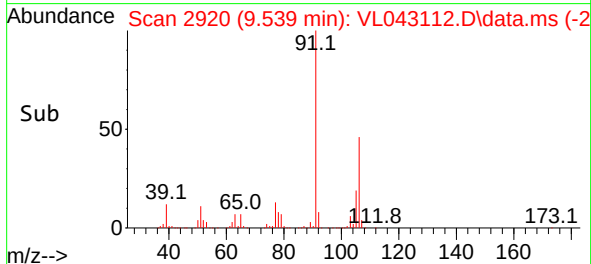
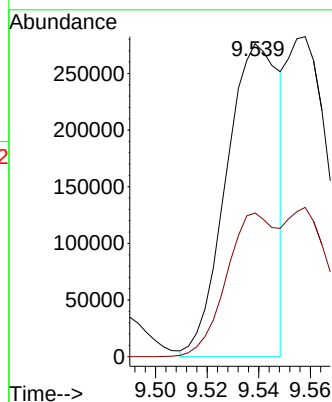
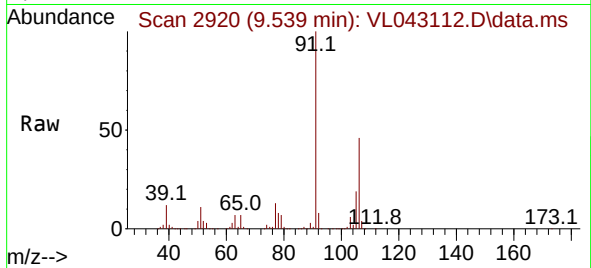




#59
m/p-Xylene
Concen: 9.822 ppbv
RT: 9.539 min Scan# 2919
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

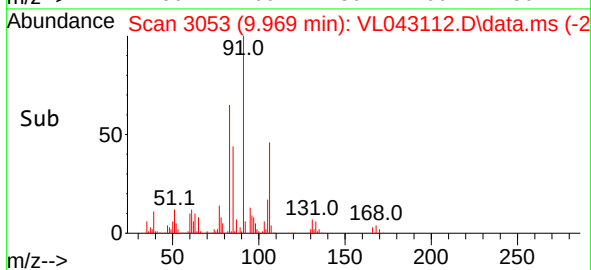
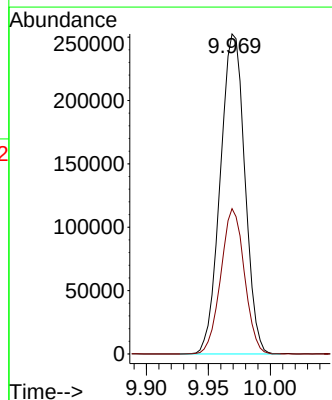
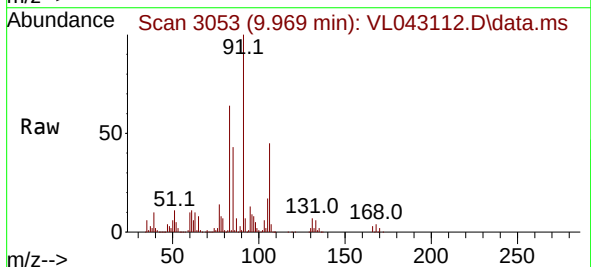
Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

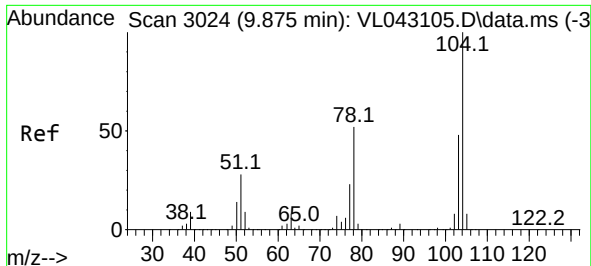
Tgt Ion: 91 Resp: 392158
Ion Ratio Lower Upper
91 100
106 0.0 38.0 57.0#



#60
o-Xylene
Concen: 8.834 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 91 Resp: 348346
Ion Ratio Lower Upper
91 100
106 43.7 21.9 65.8

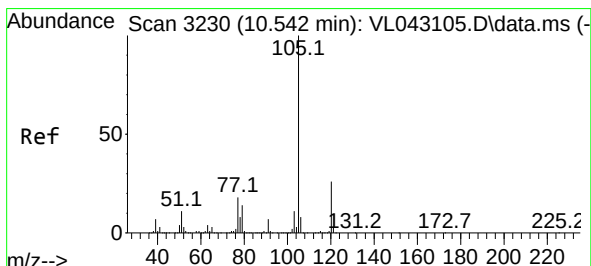
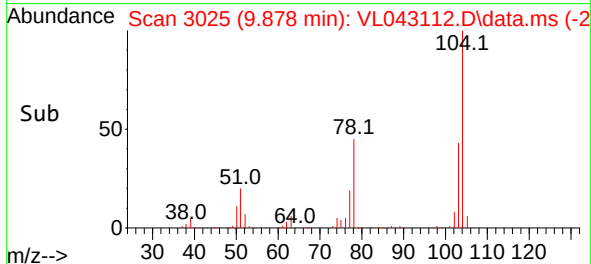
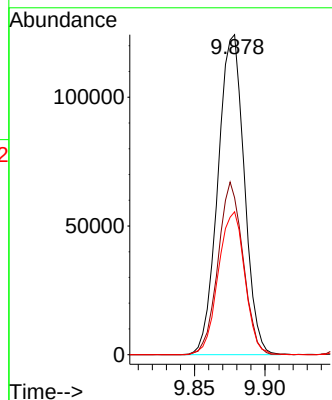
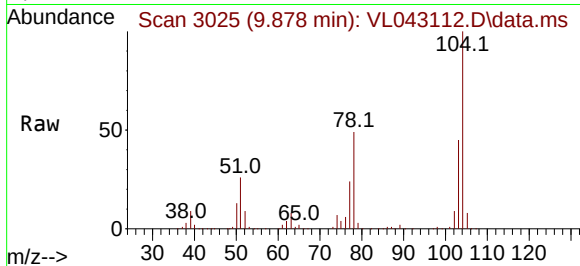




#61
Styrene
Concen: 9.099 ppbv
RT: 9.878 min Scan# 3024
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

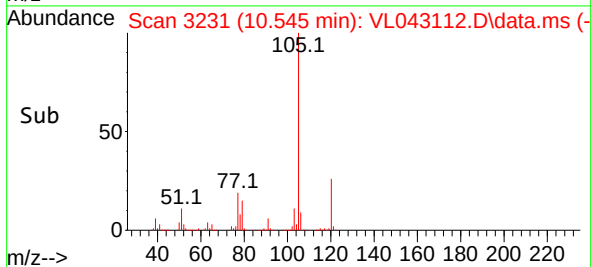
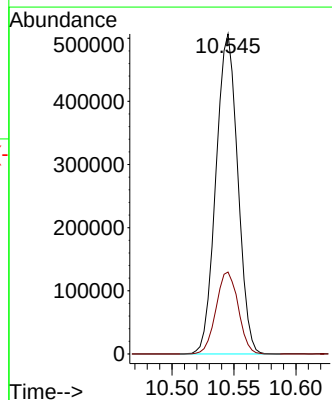
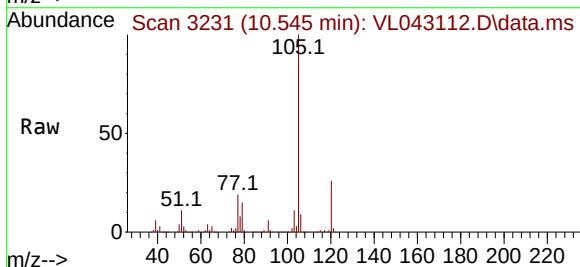
Instrument :
MSVOA_1
ClientSampleId :
ICVVL101425

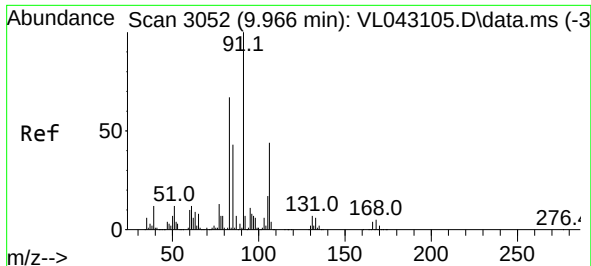
Tgt Ion:104 Resp: 161979
Ion Ratio Lower Upper
104 100
78 51.4 40.2 60.2
103 45.0 36.9 55.3



#62
Isopropylbenzene
Concen: 8.726 ppbv
RT: 10.545 min Scan# 3231
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion:105 Resp: 621758
Ion Ratio Lower Upper
105 100
120 26.0 20.2 30.4





#63

1,1,2,2-Tetrachloroethane

Concen: 8.177 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. -0.000 min

Lab File: VL043112.D

Acq: 14 Oct 2025 14:51

Instrument :

MSVOA_L

ClientSampleId :

ICVVL101425

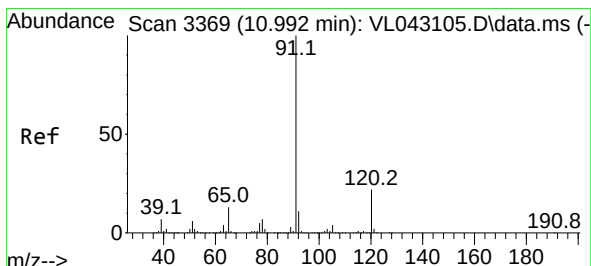
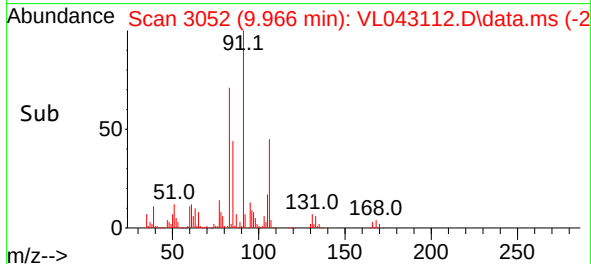
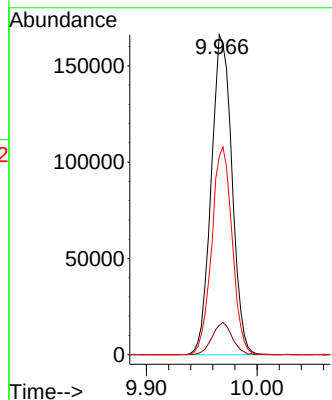
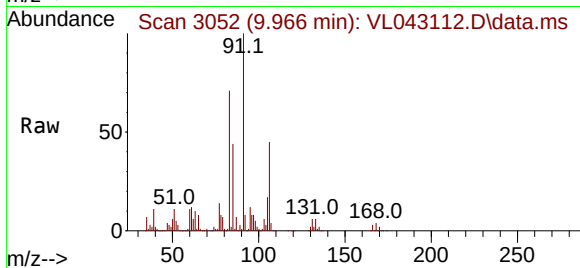
Tgt Ion: 83 Resp: 215911

Ion Ratio Lower Upper

83 100

131 9.7 4.8 14.3

85 64.1 32.0 96.0



#64

n-propylbenzene

Concen: 8.503 ppbv

RT: 10.995 min Scan# 3370

Delta R.T. 0.003 min

Lab File: VL043112.D

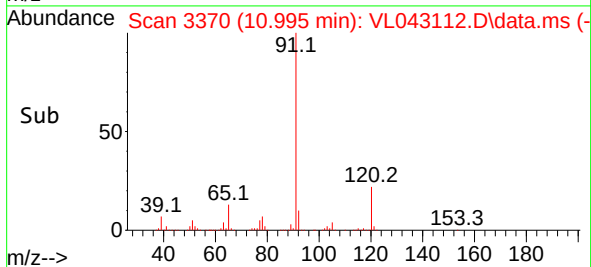
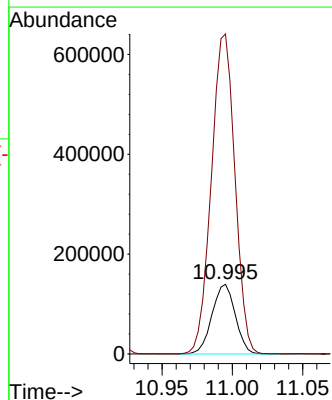
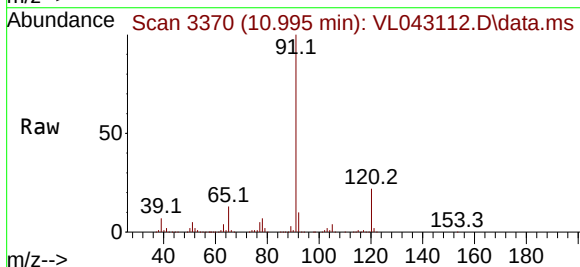
Acq: 14 Oct 2025 14:51

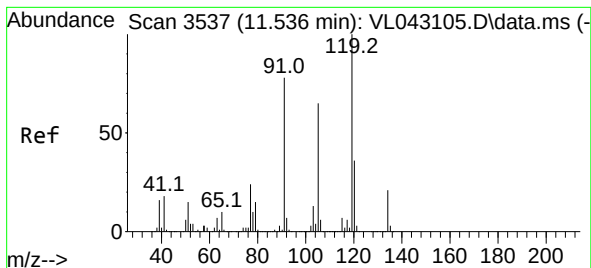
Tgt Ion: 120 Resp: 160411

Ion Ratio Lower Upper

120 100

91 467.8 361.6 542.4





#65

tert-Butylbenzene

Concen: 8.464 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. -0.000 min

Lab File: VL043112.D

Acq: 14 Oct 2025 14:51

Instrument :

MSVOA_L

ClientSampleId :

ICVVL101425

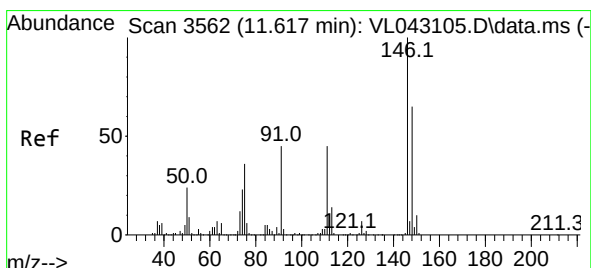
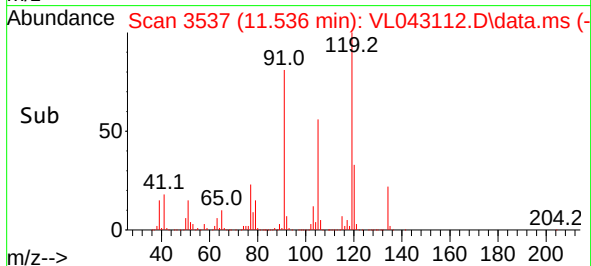
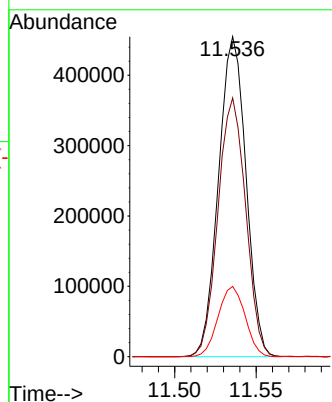
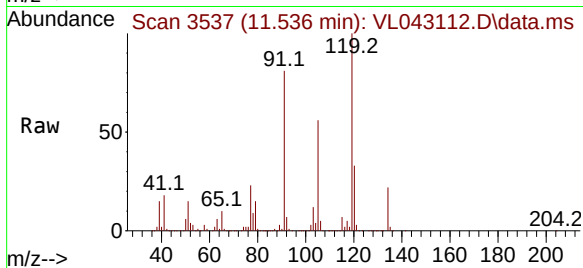
Tgt Ion:119 Resp: 532570

Ion Ratio Lower Upper

119 100

91 81.6 63.4 95.0

134 21.6 17.3 25.9



#66

Benzyl Chloride

Concen: 8.306 ppbv

RT: 11.620 min Scan# 3563

Delta R.T. 0.003 min

Lab File: VL043112.D

Acq: 14 Oct 2025 14:51

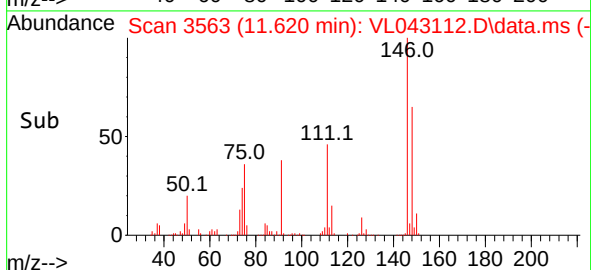
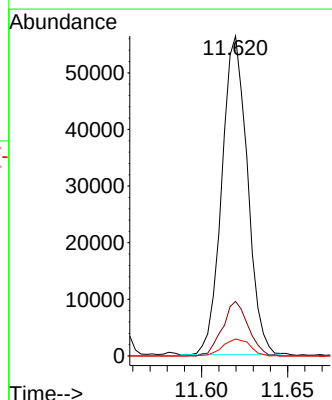
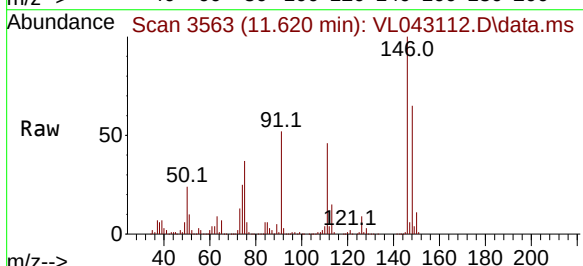
Tgt Ion: 91 Resp: 58169

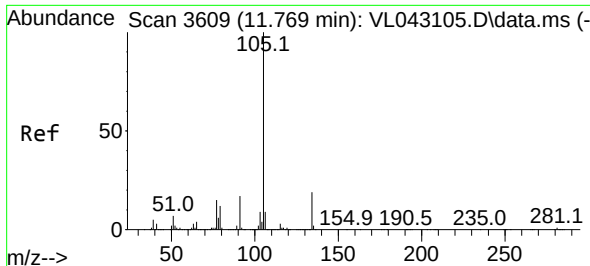
Ion Ratio Lower Upper

91 100

126 17.2 14.6 22.0

128 5.8 4.6 6.8

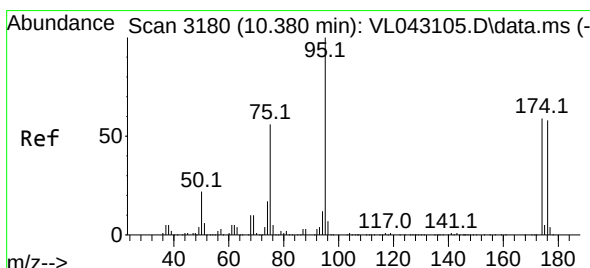
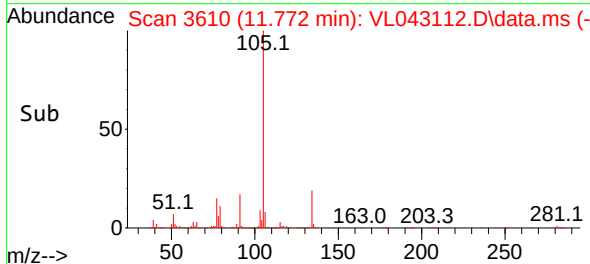
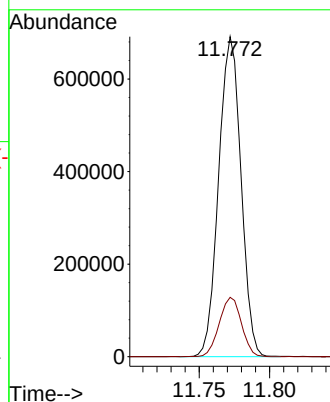
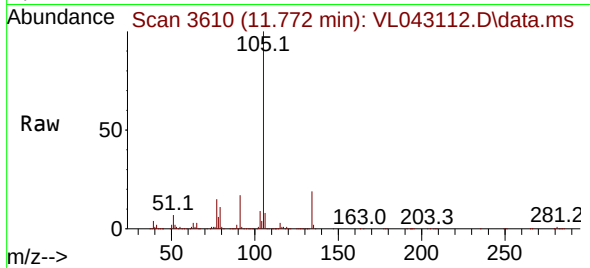




#67
 sec-Butylbenzene
 Concen: 8.541 ppbv
 RT: 11.772 min Scan# 3610
 Delta R.T. 0.003 min
 Lab File: VL043112.D
 Acq: 14 Oct 2025 14:51

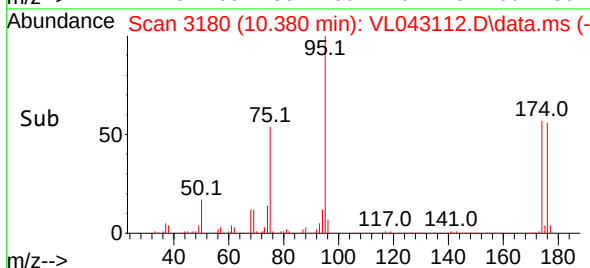
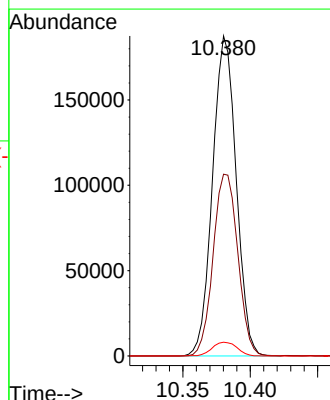
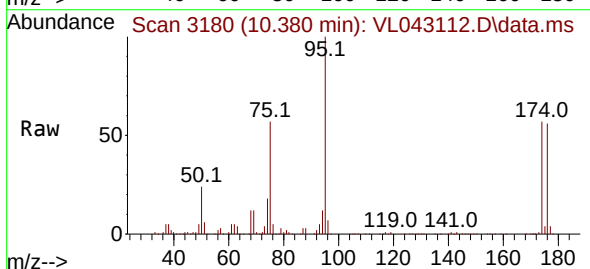
Instrument :
 MSVOA_1
 ClientSampleId :
 ICVVL101425

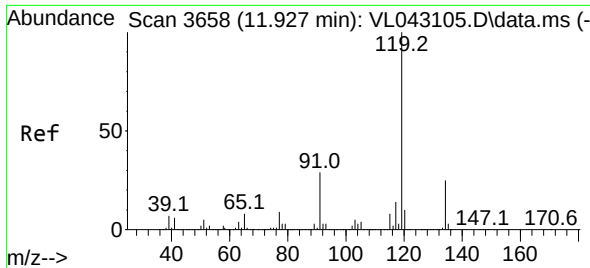
Tgt Ion:105 Resp: 762711
 Ion Ratio Lower Upper
 105 100
 134 18.5 15.5 23.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.101 ppbv
 RT: 10.380 min Scan# 3180
 Delta R.T. -0.000 min
 Lab File: VL043112.D
 Acq: 14 Oct 2025 14:51

Tgt Ion: 95 Resp: 229010
 Ion Ratio Lower Upper
 95 100
 174 59.2 48.3 72.5
 175 4.6 3.8 5.8

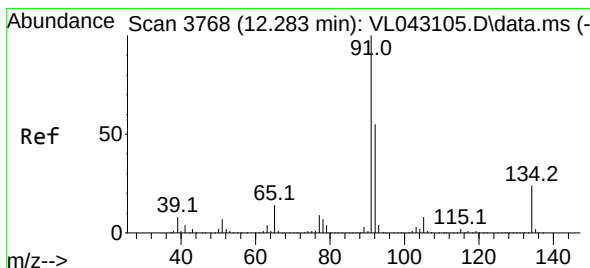
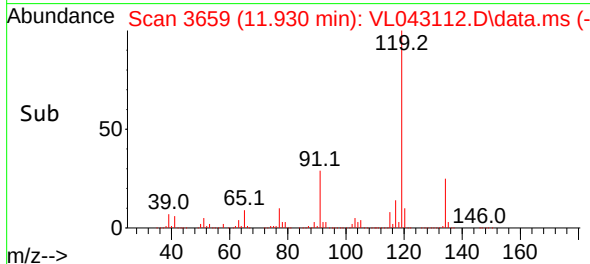
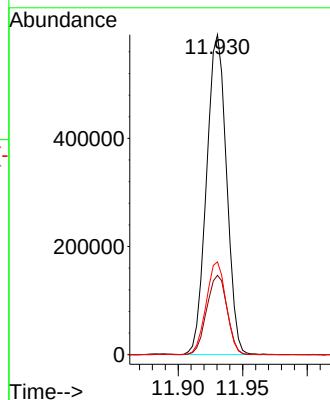
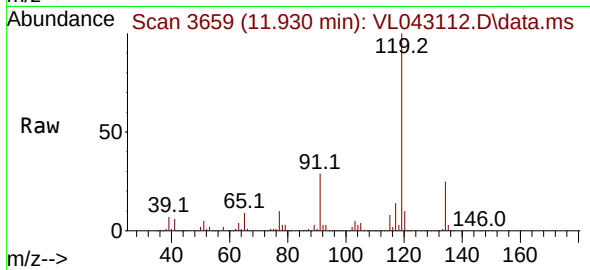




#69
p-Isopropyltoluene
Concen: 8.411 ppbv
RT: 11.930 min Scan# 3659
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

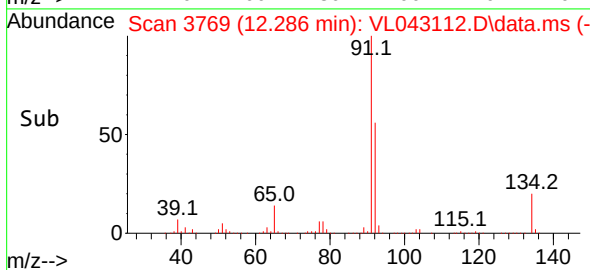
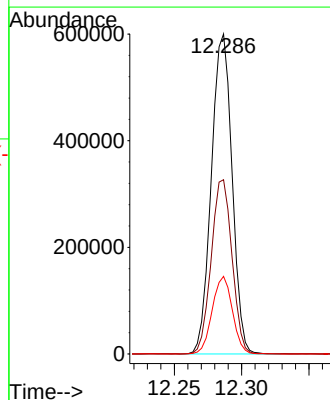
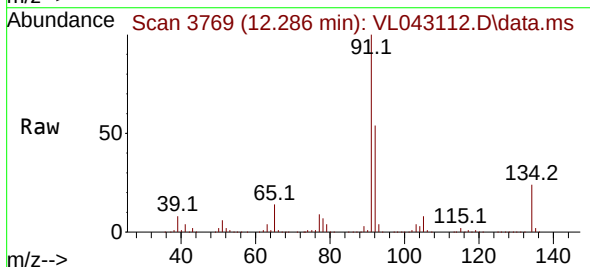
Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

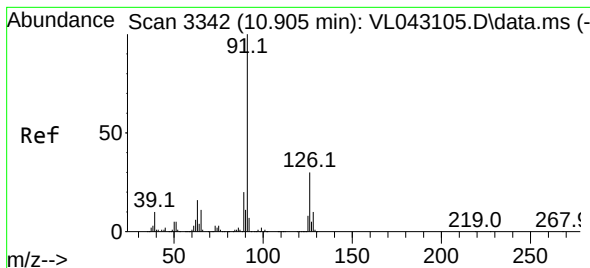
Tgt Ion:119 Resp: 638261
Ion Ratio Lower Upper
119 100
134 25.4 20.3 30.5
91 29.0 22.6 33.8



#70
n-Butylbenzene
Concen: 8.579 ppbv
RT: 12.286 min Scan# 3769
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 91 Resp: 641547
Ion Ratio Lower Upper
91 100
92 54.8 44.5 66.7
134 23.7 19.3 28.9

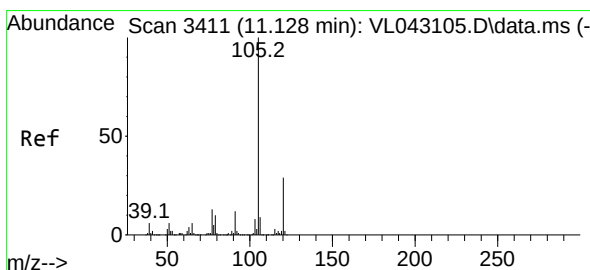
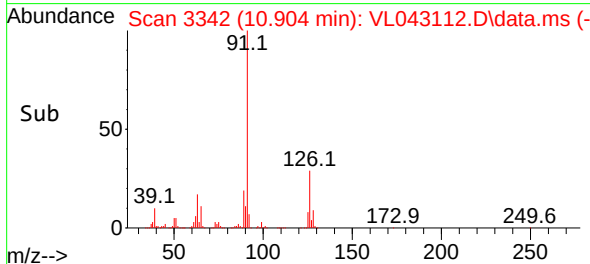
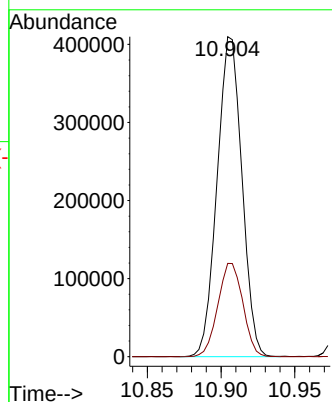
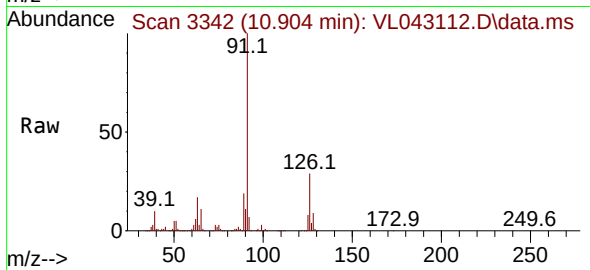




#71
2-Chlorotoluene
Concen: 8.828 ppbv
RT: 10.904 min Scan# 311
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

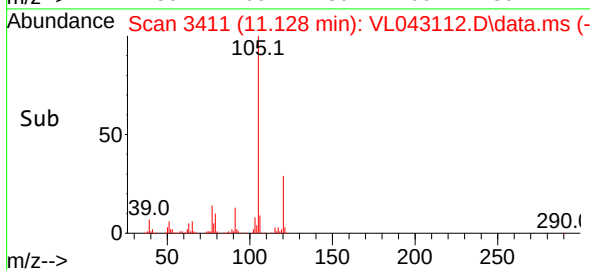
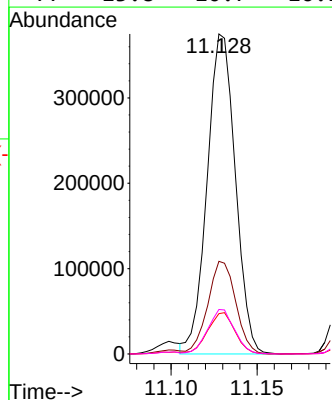
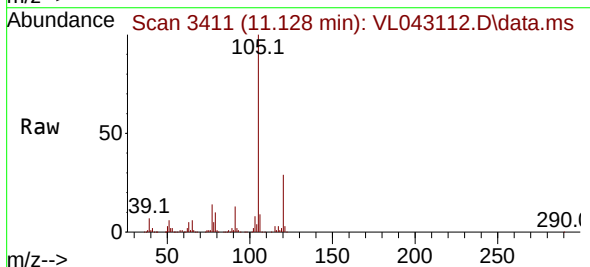
Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

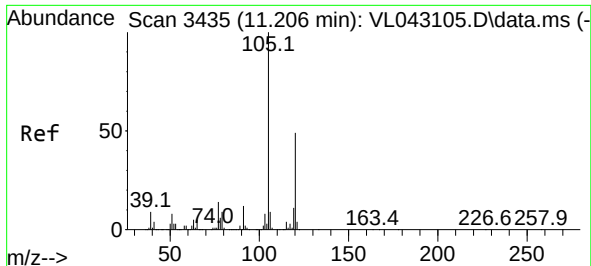
Tgt Ion: 91 Resp: 479799
Ion Ratio Lower Upper
91 100
126 29.3 12.0 48.0



#72
4-Ethyltoluene
Concen: 8.807 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion:105 Resp: 427034
Ion Ratio Lower Upper
105 100
120 29.8 24.2 36.4
91 13.1 10.0 15.0
77 13.8 10.7 16.1

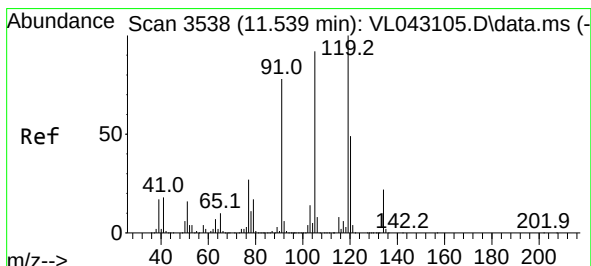
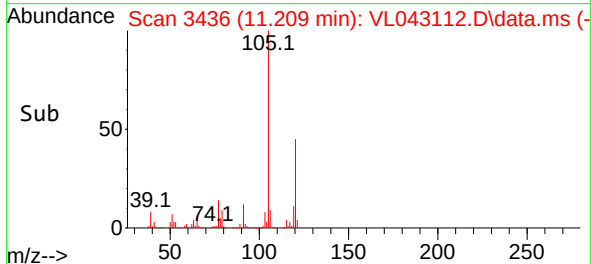
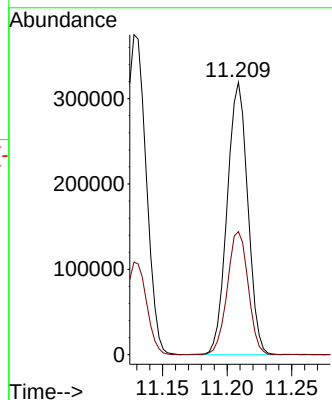
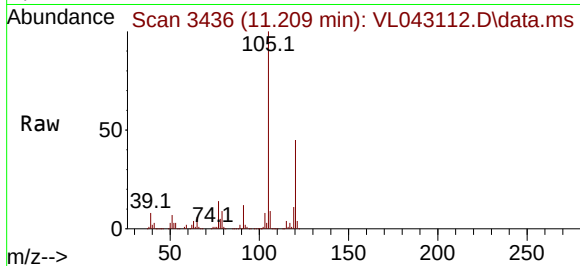




#73
1,3,5-Trimethylbenzene
Concen: 8.874 ppbv
RT: 11.209 min Scan# 3435
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

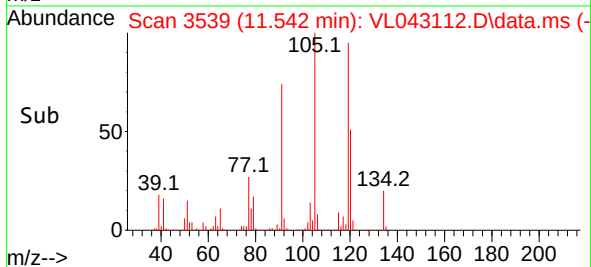
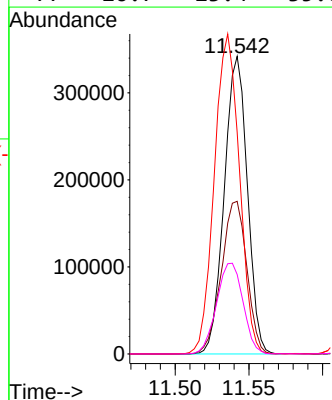
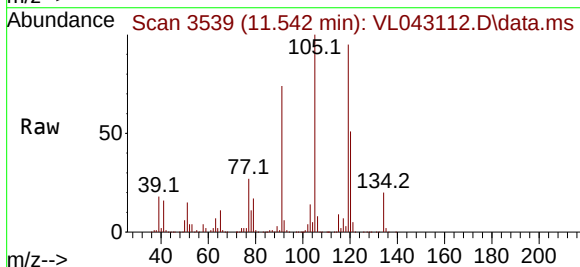
Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

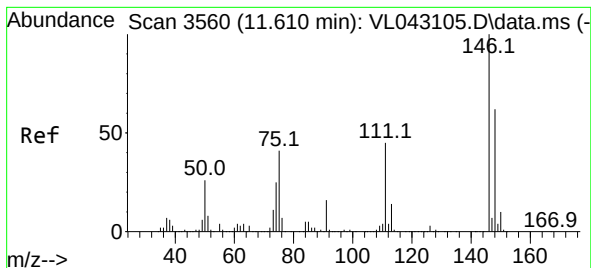
Tgt Ion:105 Resp: 354875
Ion Ratio Lower Upper
105 100
120 45.2 39.0 58.6



#74
1,2,4-Trimethylbenzene
Concen: 8.324 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion:105 Resp: 372506
Ion Ratio Lower Upper
105 100
120 51.3 42.8 64.2
91 74.4 68.3 102.5
77 26.7 23.4 35.0





#75

1,3-Dichlorobenzene

Concen: 8.454 ppbv

RT: 11.610 min Scan# 3560

Delta R.T. -0.000 min

Lab File: VL043112.D

Acq: 14 Oct 2025 14:51

Instrument :

MSVOA_L

ClientSampleId :

ICVVL101425

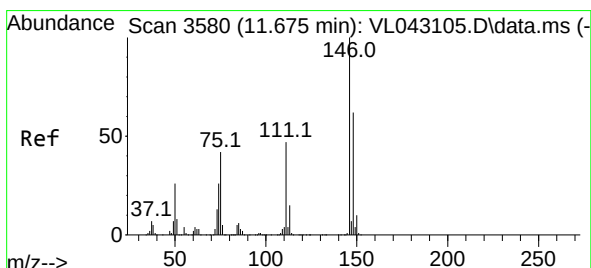
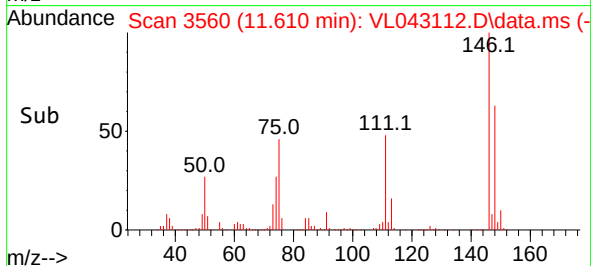
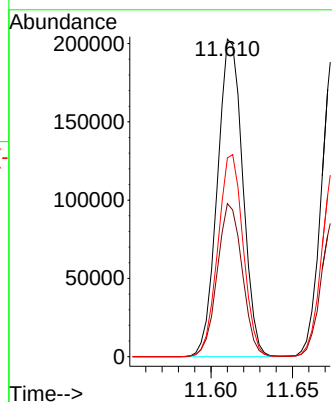
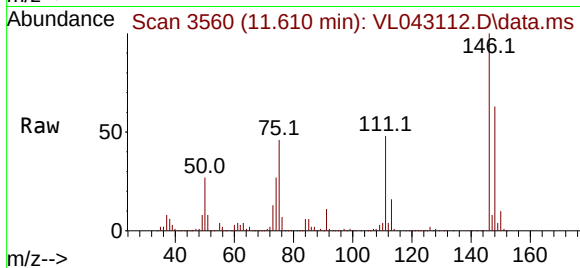
Tgt Ion:146 Resp: 219423

Ion Ratio Lower Upper

146 100

111 47.6 23.3 69.9

148 63.3 31.6 95.0



#76

1,4-Dichlorobenzene

Concen: 8.458 ppbv

RT: 11.675 min Scan# 3580

Delta R.T. -0.000 min

Lab File: VL043112.D

Acq: 14 Oct 2025 14:51

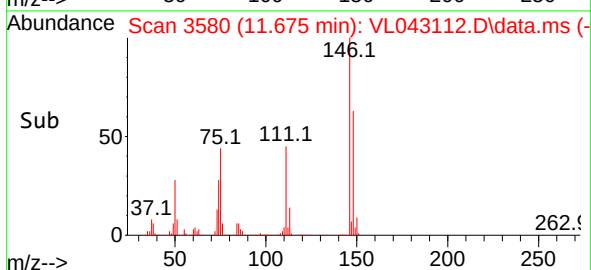
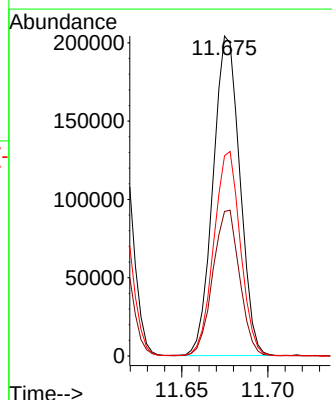
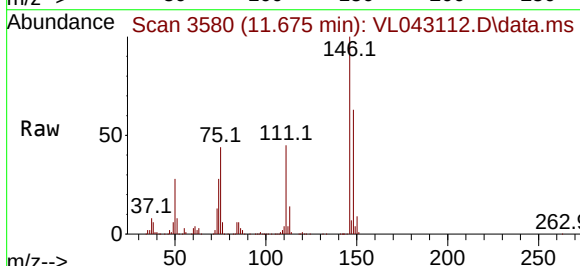
Tgt Ion:146 Resp: 221364

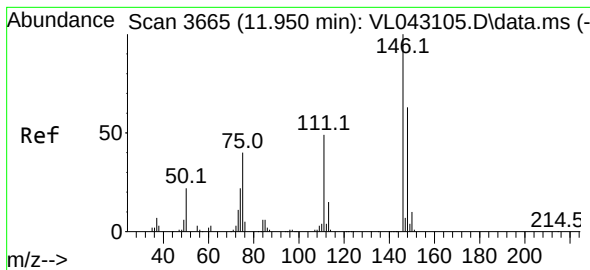
Ion Ratio Lower Upper

146 100

111 45.7 22.4 67.0

148 63.6 31.6 94.7





#77

1,2-Dichlorobenzene

Concen: 8.132 ppbv

RT: 11.953 min Scan# 3666

Delta R.T. 0.003 min

Lab File: VL043112.D

Acq: 14 Oct 2025 14:51

Instrument :

MSVOA_L

ClientSampleId :

ICVVL101425

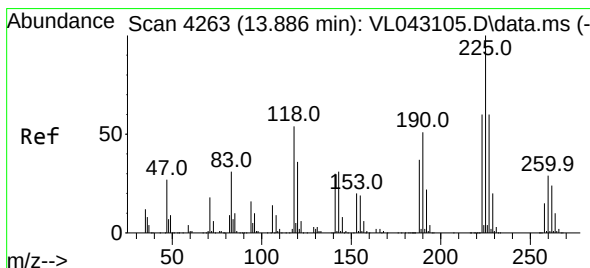
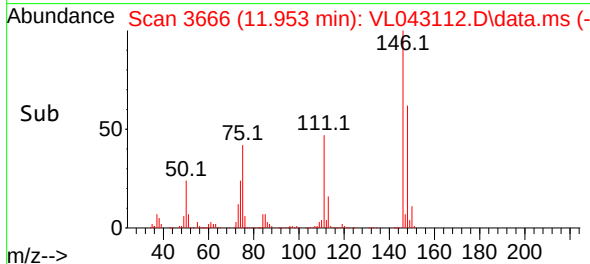
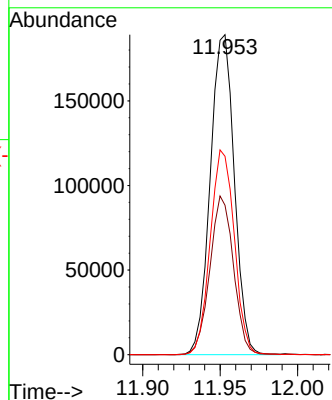
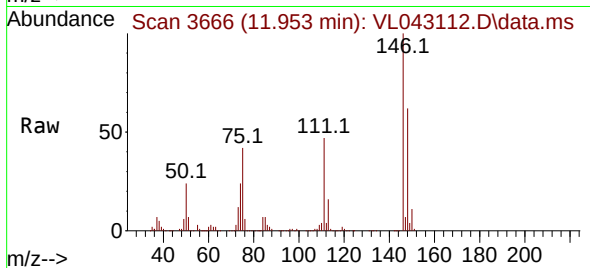
Tgt Ion:146 Resp: 204178

Ion Ratio Lower Upper

146 100

111 48.8 24.0 72.0

148 64.1 31.1 93.3



#78

Hexachloro-1,3-Butadiene

Concen: 7.440 ppbv

RT: 13.885 min Scan# 4263

Delta R.T. -0.000 min

Lab File: VL043112.D

Acq: 14 Oct 2025 14:51

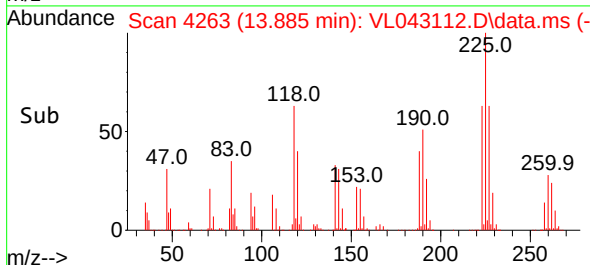
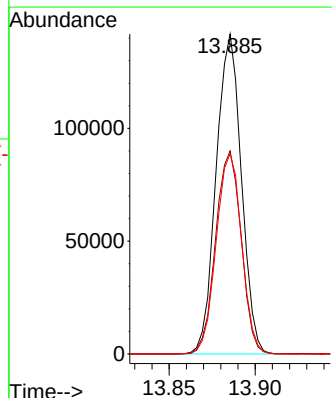
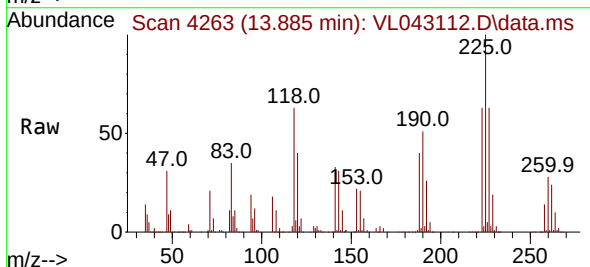
Tgt Ion:225 Resp: 144646

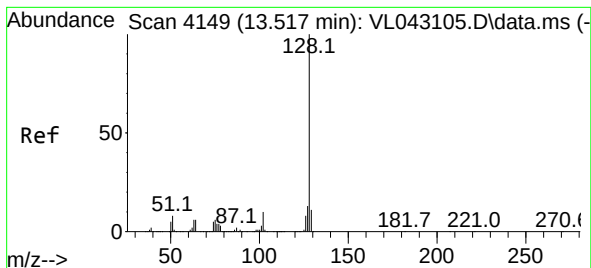
Ion Ratio Lower Upper

225 100

223 64.1 50.2 75.4

227 62.9 49.6 74.4





#79

Naphthalene

Concen: 8.334 ppbv

RT: 13.516 min Scan# 4149

Delta R.T. -0.000 min

Lab File: VL043112.D

Acq: 14 Oct 2025 14:51

Instrument :

MSVOA_1

ClientSampleId :

ICVVL101425

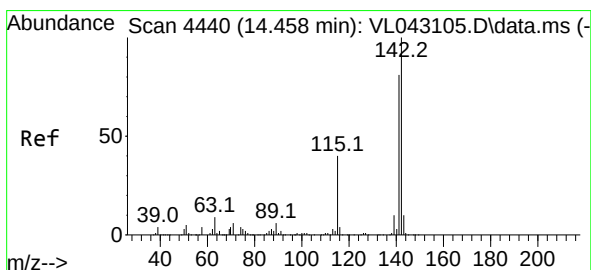
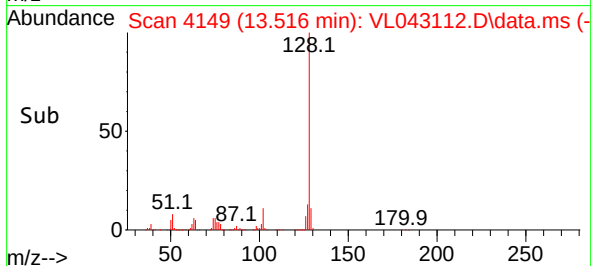
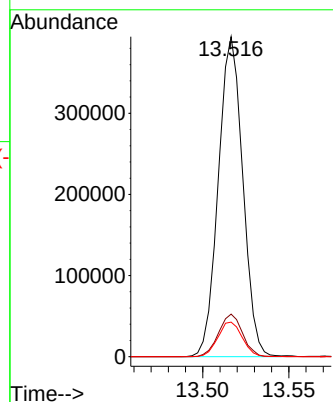
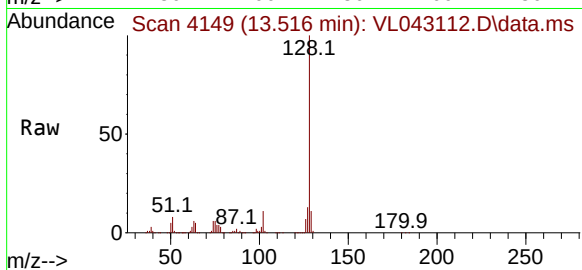
Tgt Ion:128 Resp: 389814

Ion Ratio Lower Upper

128 100

127 13.3 10.5 15.7

129 10.8 9.1 13.7



#80

Naphthalene,2-methyl-

Concen: 10.146 ppbv

RT: 14.458 min Scan# 4440

Delta R.T. -0.000 min

Lab File: VL043112.D

Acq: 14 Oct 2025 14:51

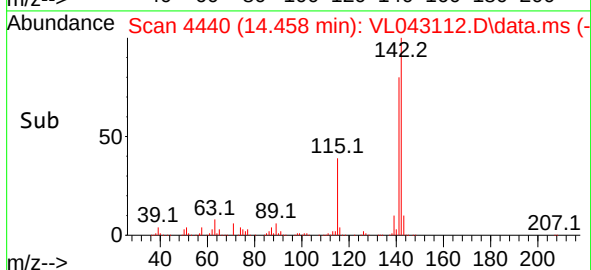
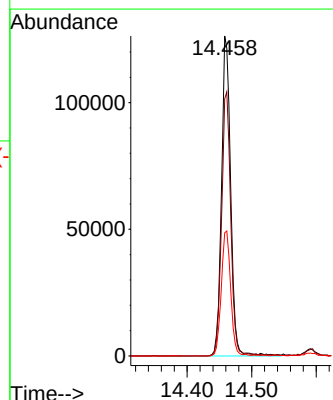
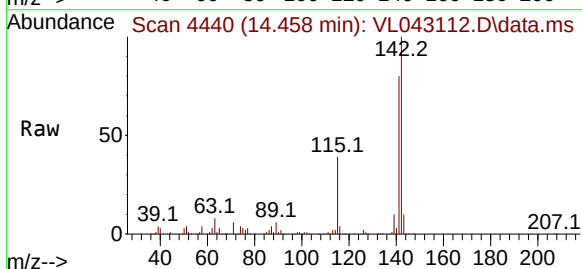
Tgt Ion:142 Resp: 123632

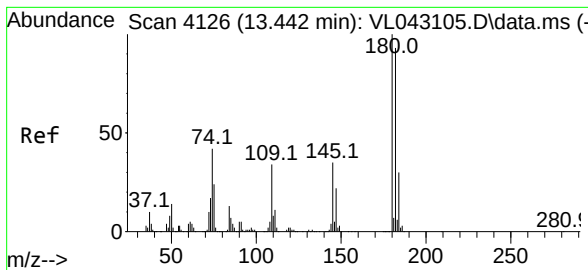
Ion Ratio Lower Upper

142 100

141 83.1 64.6 97.0

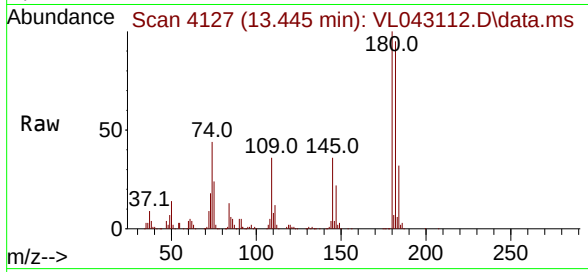
115 40.3 30.2 45.4



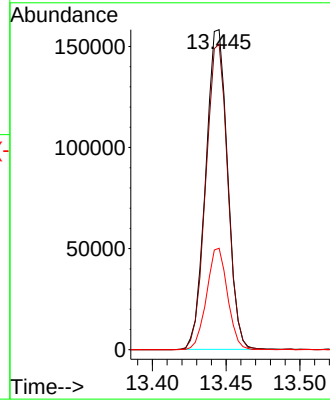
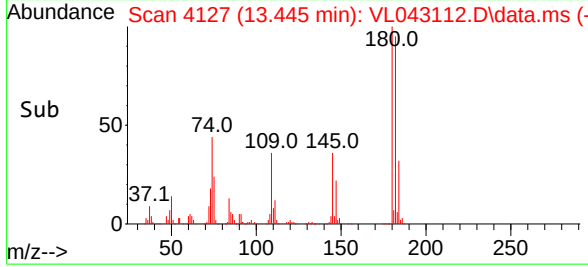


#81
 1,2,4-Trichlorobenzene
 Concen: 8.373 ppbv
 RT: 13.445 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL043112.D
 Acq: 14 Oct 2025 14:51

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL101425



Tgt Ion:	180	Resp:	162553
Ion	Ratio	Lower	Upper
180	100		
182	96.1	75.5	113.3
184	30.4	23.9	35.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101525\
 Data File : VL043114.D
 Acq On : 15 Oct 2025 08:43
 Operator : SY/MD
 Sample : VSTDC0010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDC0010

Quant Time: Oct 16 01:13:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 02:12:58 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	98213	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	316115	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	288868	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	227182	10.118	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.200%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	134418	9.627	ppbv	97
3) Chlorodifluoromethane	1.479	51	135903	8.996	ppbv	98
4) Chloromethane	1.534	50	48684	8.801	ppbv	98
5) Vinyl Chloride	1.583	62	48129	8.871	ppbv	98
6) Bromomethane	1.670	94	27602	9.278	ppbv	99
7) Chloroethane	1.706	64	19136	8.627	ppbv	95
8) Dichlorotetrafluoroethane	1.557	85	109293	9.685	ppbv	99
9) Propene	1.486	41	56522	8.436	ppbv	98
10) Heptane	4.988	43	162470	8.423	ppbv	99
11) Trichlorofluoromethane	1.881	101	142862	10.460	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.143	101	109181	9.930	ppbv	100
13) Ethanol	1.722	45	18366	7.411	ppbv	96
14) Bromoethene	1.784	108	40048	9.804	ppbv	99
15) Acetone	1.835	43	113033	8.539	ppbv	99
16) 1,3-Butadiene	1.612	39	56426	8.944	ppbv	97
17) tert-Butyl alcohol	2.039	59	174816	9.621	ppbv	99
18) 1,1-Dichloroethene	2.036	96	48563	10.131	ppbv	85
19) Isopropyl Alcohol	1.887	45	72396	8.781	ppbv	98
20) Methylene Chloride	2.065	84	42819	8.183	ppbv	97
21) Allyl Chloride	2.101	41	91089	9.338	ppbv	95
22) trans-1,2-Dichloroethene	2.344	96	55471	9.681	ppbv	96
23) Vinyl Acetate	2.463	43	178708	9.216	ppbv	98
24) 1,1-Dichloroethane	2.411	63	109016	9.847	ppbv	99
25) Ethyl Acetate	2.835	43	290447	8.848	ppbv	99
26) Hexane	2.832	57	132602	8.766	ppbv	99
27) Carbon Disulfide	2.156	76	135963	9.810	ppbv #	88
28) Methyl tert-Butyl Ether	2.441	73	63933	9.290	ppbv	97
29) Chloroform	2.852	83	207291	9.458	ppbv	99
30) Cyclohexane	3.861	84	117130	8.872	ppbv	95
31) cis-1,2-Dichloroethene	2.725	61	137958	9.551	ppbv	95
32) 1,1,1-Trichloroethane	3.373	97	221109	9.688	ppbv	98
34) 2-Butanone	2.557	43	189478	8.917	ppbv	98
35) Carbon Tetrachloride	3.768	117	220510	9.702	ppbv	95
36) Benzene	3.661	78	280028	9.405	ppbv	98
37) 1,2-Dichloroethane	3.224	62	163041	9.506	ppbv	98
38) Trichloroethene	4.554	130	106893	8.597	ppbv	98
39) 1,2-Dichloropropane	4.318	63	98585	9.057	ppbv	93
40) 1,4-Dioxane	4.580	88	44526	9.142	ppbv #	93
41) Tetrahydrofuran	3.056	42	102758	8.646	ppbv	97
42) Bromodichloromethane	4.493	83	231006	9.731	ppbv	97
43) Methyl Methacrylate	4.881	69	137710	9.107	ppbv	97
44) 2,2,4-Trimethylpentane	4.645	57	444749	8.854	ppbv	99
45) t-1,3-Dichloropropene	6.418	75	143812	9.477	ppbv	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101525\
 Data File : VL043114.D
 Acq On : 15 Oct 2025 08:43
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

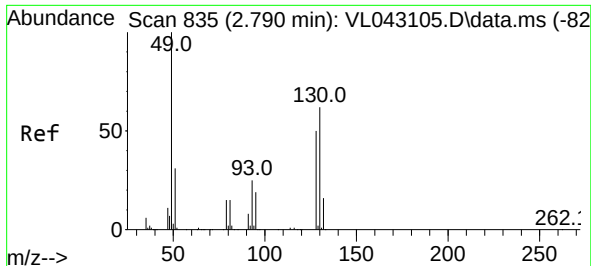
Quant Time: Oct 16 01:13:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 02:12:58 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.603	75	168699	9.306	ppbv	95
47) 1,1,2-Trichloroethane	6.583	97	107487	9.145	ppbv	98
48) Dibromochloromethane	7.389	129	186784	9.504	ppbv	100
49) Bromoform	9.487	173	152127	9.523	ppbv	99
50) 4-Methyl-2-Pentanone	5.752	43	256116	8.734	ppbv	99
51) 2-Hexanone	7.438	43	199219	9.057	ppbv	99
52) Tetrachloroethene	8.231	164	94700	8.820	ppbv	96
53) Toluene	6.940	91	318262	9.007	ppbv	100
54) 1,2-Dibromoethane	7.658	107	169023	9.181	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.927	131	165210	9.073	ppbv	99
57) Chlorobenzene	8.927	112	236465	8.750	ppbv	99
58) Ethyl Benzene	9.357	91	448315	9.043	ppbv	98
59) m/p-Xylene	9.535	91	415529	10.508	ppbv #	29
60) o-Xylene	9.969	91	344891	8.831	ppbv	99
61) Styrene	9.875	104	158625	8.997	ppbv	99
62) Isopropylbenzene	10.542	105	619844	8.784	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.966	83	219643	8.399	ppbv	99
64) n-propylbenzene	10.992	120	161656	8.652	ppbv	95
65) tert-Butylbenzene	11.536	119	525334	8.430	ppbv	96
66) Benzyl Chloride	11.620	91	59531	8.583	ppbv	100
67) sec-Butylbenzene	11.772	105	760584	8.600	ppbv	98
69) p-Isopropyltoluene	11.927	119	639817	8.513	ppbv	99
70) n-Butylbenzene	12.283	91	653616	8.825	ppbv	99
71) 2-Chlorotoluene	10.904	91	483141	8.976	ppbv	99
72) 4-Ethyltoluene	11.128	105	427201	8.896	ppbv	98
73) 1,3,5-Trimethylbenzene	11.205	105	354264	8.945	ppbv	95
74) 1,2,4-Trimethylbenzene	11.539	105	378357	8.537	ppbv	95
75) 1,3-Dichlorobenzene	11.610	146	220714	8.587	ppbv	99
76) 1,4-Dichlorobenzene	11.675	146	226777	8.750	ppbv	99
77) 1,2-Dichlorobenzene	11.950	146	210381	8.460	ppbv	98
78) Hexachloro-1,3-Butadiene	13.885	225	149878	7.784	ppbv	98
79) Naphthalene	13.516	128	427928	9.238	ppbv	99
80) Naphthalene,2-methyl-	14.458	142	123398	10.225	ppbv	96
81) 1,2,4-Trichlorobenzene	13.442	180	168975	8.789	ppbv	99

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

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

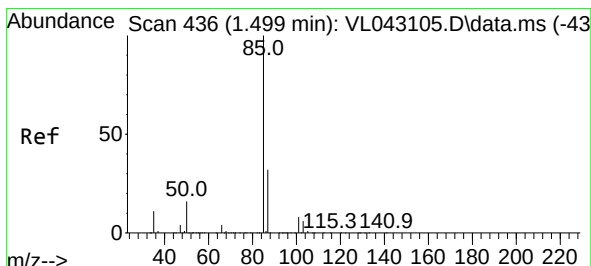
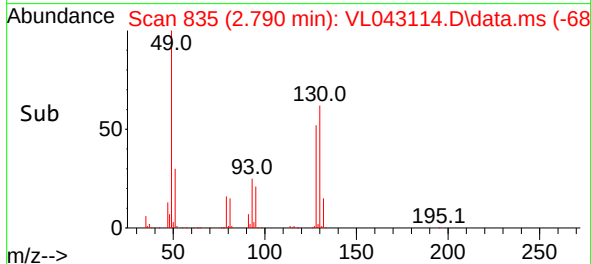
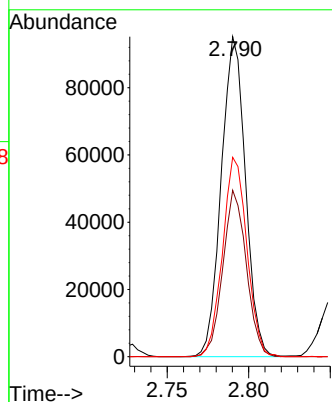
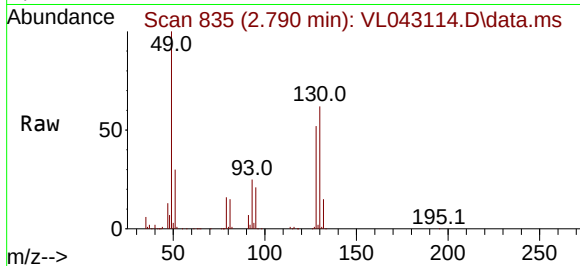
[illegible]



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

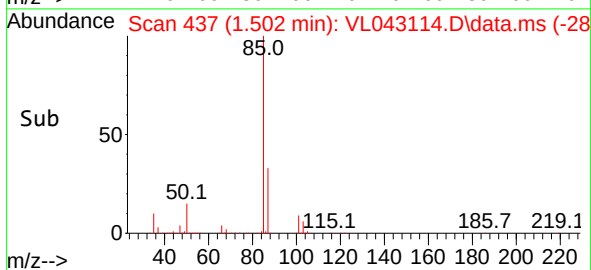
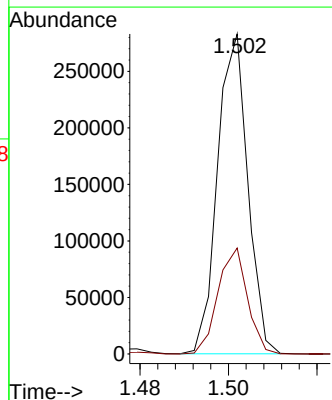
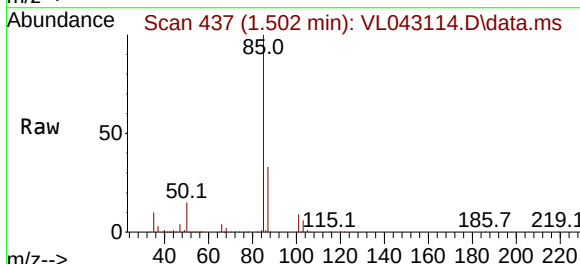
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

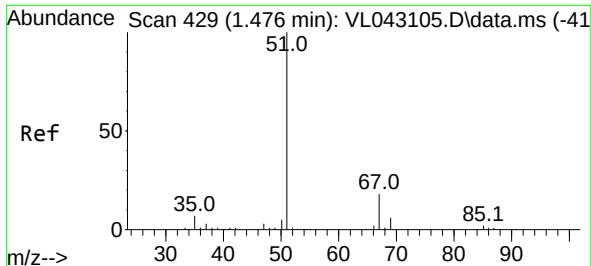
Tgt Ion: 49 Resp: 98213
Ion Ratio Lower Upper
49 100
128 50.4 24.4 73.4
130 62.6 31.0 93.0



#2
Dichlorodifluoromethane
Concen: 9.627 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

Tgt Ion: 85 Resp: 134418
Ion Ratio Lower Upper
85 100
87 33.1 25.3 37.9

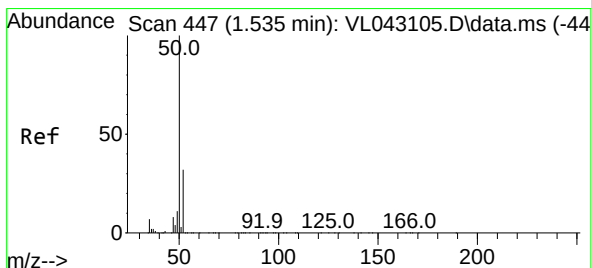
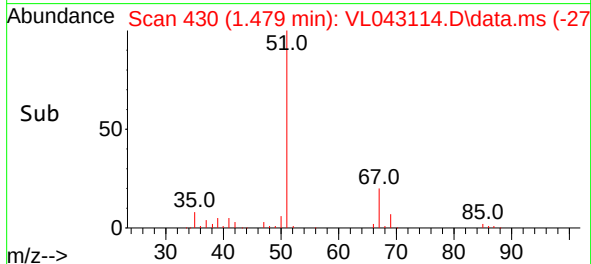
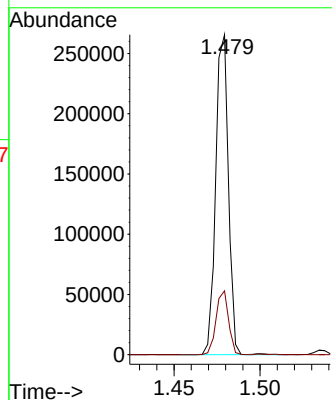
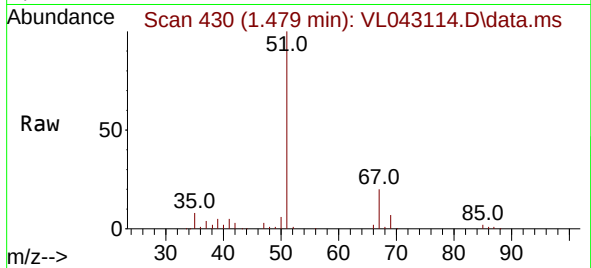




#3
Chlorodifluoromethane
Concen: 8.996 ppbv
RT: 1.479 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

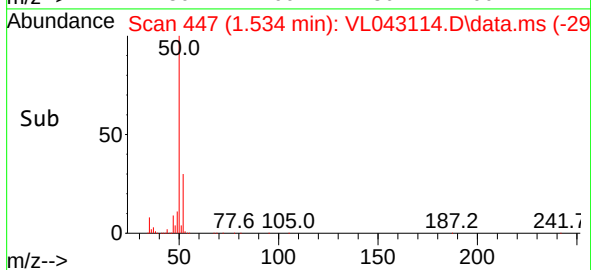
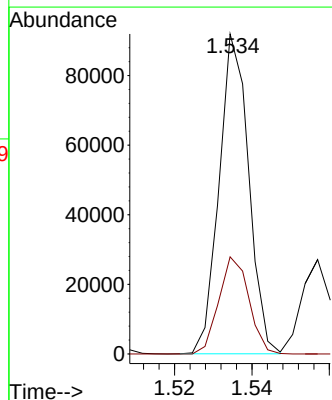
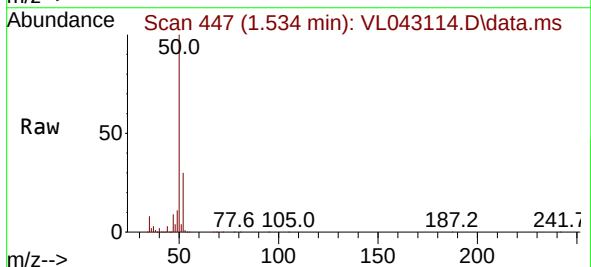
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

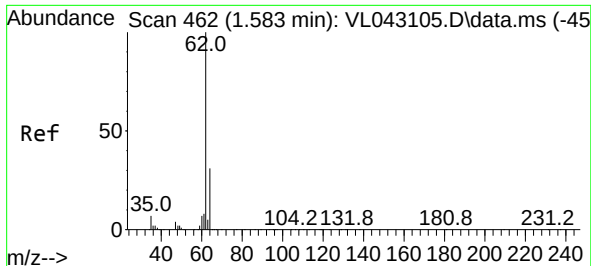
Tgt Ion: 51 Resp: 135903
Ion Ratio Lower Upper
51 100
67 19.9 15.1 22.7



#4
Chloromethane
Concen: 8.801 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

Tgt Ion: 50 Resp: 48684
Ion Ratio Lower Upper
50 100
52 30.4 25.2 37.8

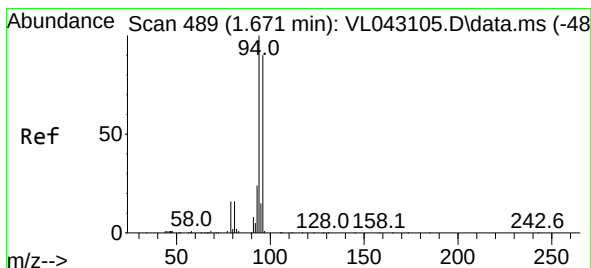
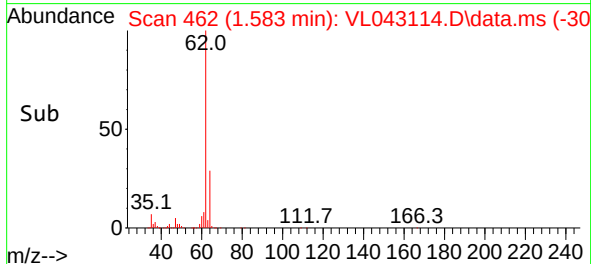
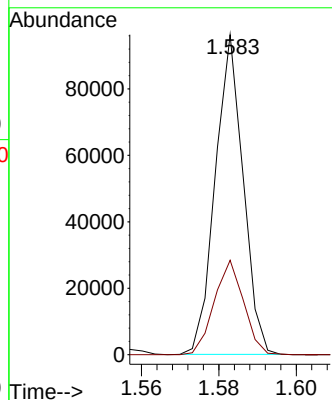
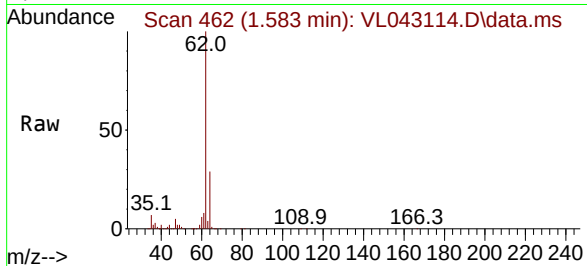




#5
 Vinyl Chloride
 Concen: 8.871 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. -0.000 min
 Lab File: VL043114.D
 Acq: 15 Oct 2025 08:43

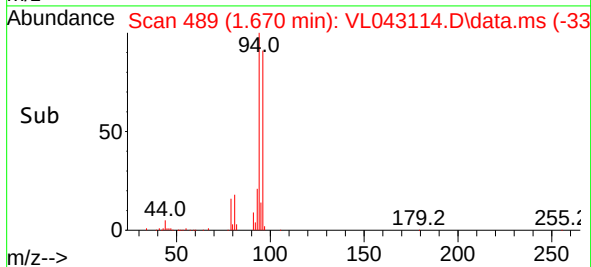
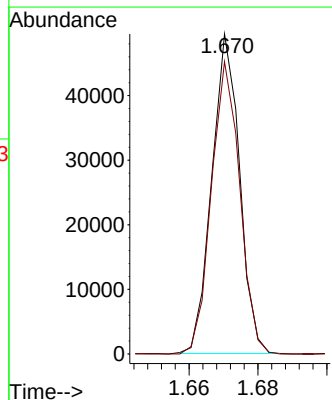
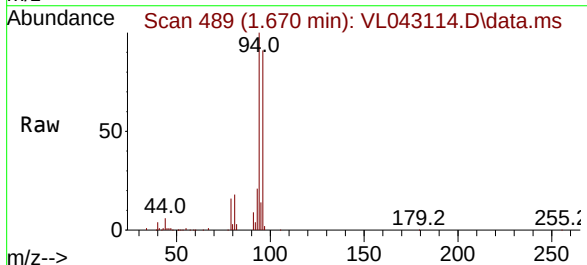
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

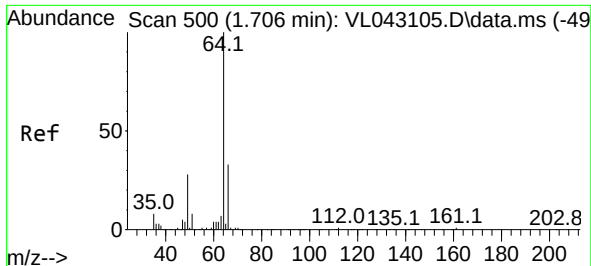
Tgt Ion: 62 Resp: 48129
 Ion Ratio Lower Upper
 62 100
 64 29.5 24.6 36.8



#6
 Bromomethane
 Concen: 9.278 ppbv
 RT: 1.670 min Scan# 489
 Delta R.T. -0.000 min
 Lab File: VL043114.D
 Acq: 15 Oct 2025 08:43

Tgt Ion: 94 Resp: 27602
 Ion Ratio Lower Upper
 94 100
 96 91.5 72.2 108.4

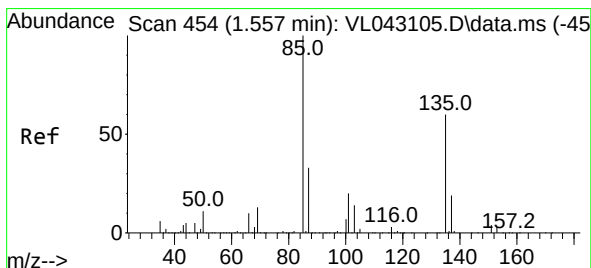
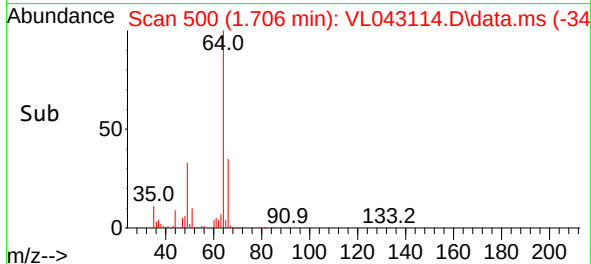
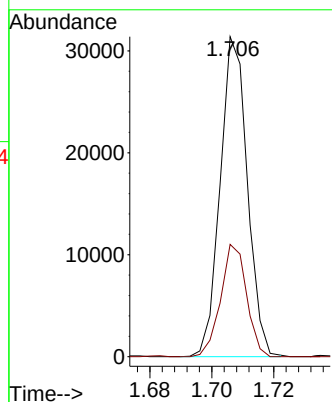
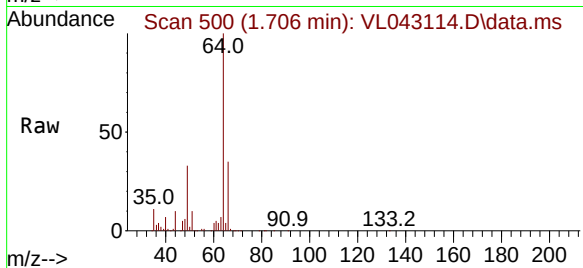




#7
Chloroethane
Concen: 8.627 ppbv
RT: 1.706 min Scan# 500
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

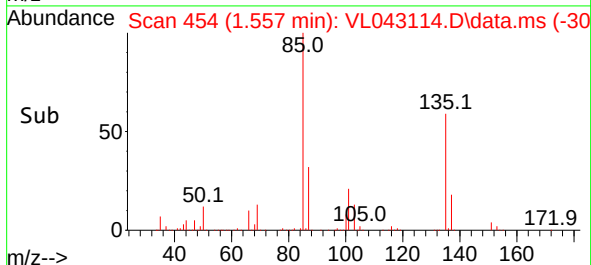
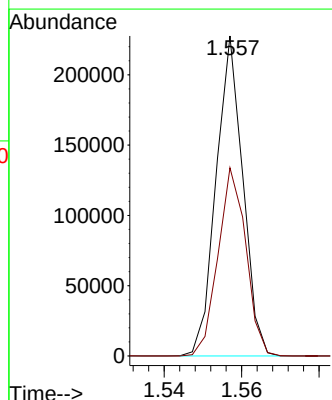
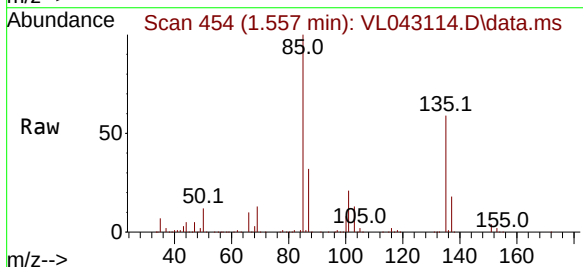
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

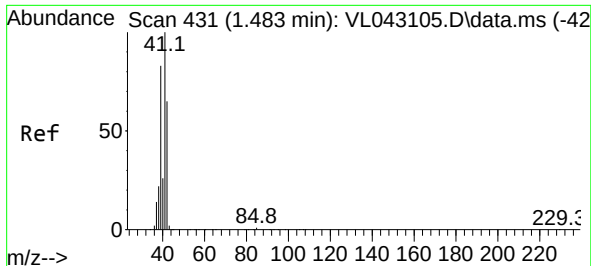
Tgt Ion: 64 Resp: 19136
Ion Ratio Lower Upper
64 100
66 35.1 26.0 39.0



#8
Dichlorotetrafluoroethane
Concen: 9.685 ppbv
RT: 1.557 min Scan# 454
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

Tgt Ion: 85 Resp: 109293
Ion Ratio Lower Upper
85 100
135 61.2 48.2 72.4





#9

Propene

Concen: 8.436 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL043114.D

Acq: 15 Oct 2025 08:43

Instrument :

MSVOA_1

ClientSampleId :

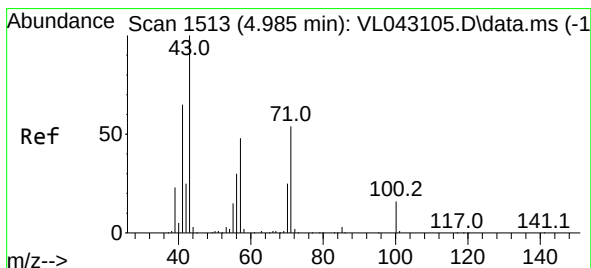
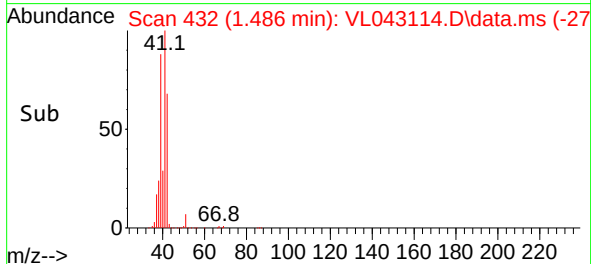
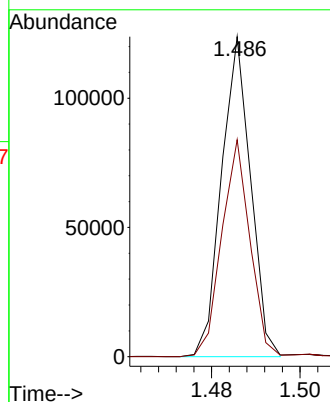
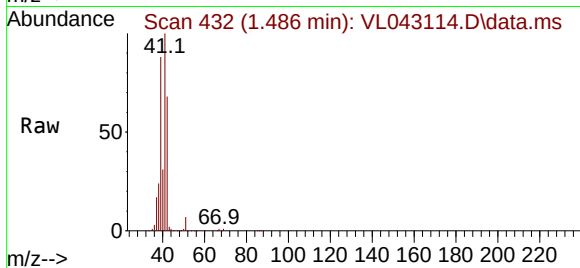
VSTDCCC010

Tgt Ion: 41 Resp: 56522

Ion Ratio Lower Upper

41 100

42 66.9 55.1 82.7



#10

Heptane

Concen: 8.423 ppbv

RT: 4.988 min Scan# 1514

Delta R.T. 0.003 min

Lab File: VL043114.D

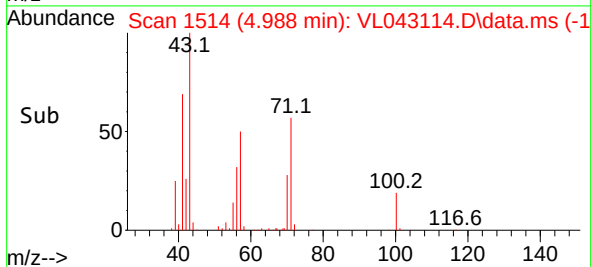
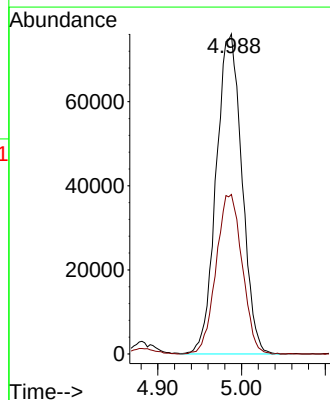
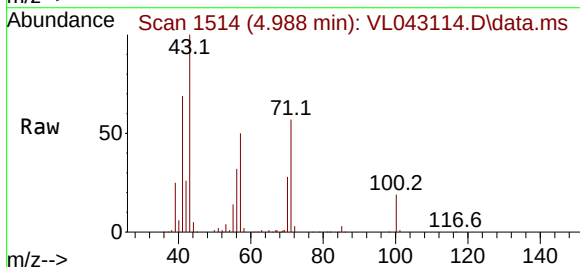
Acq: 15 Oct 2025 08:43

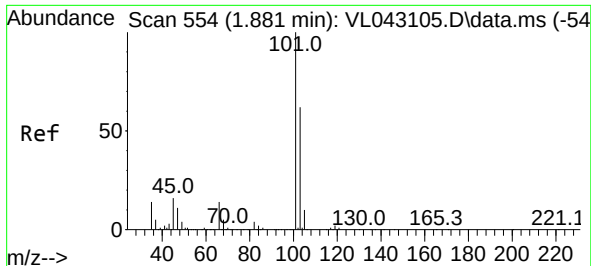
Tgt Ion: 43 Resp: 162470

Ion Ratio Lower Upper

43 100

57 50.5 40.8 61.2

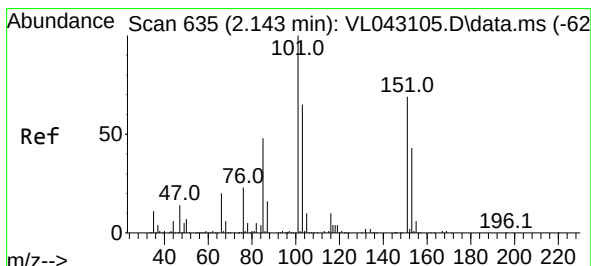
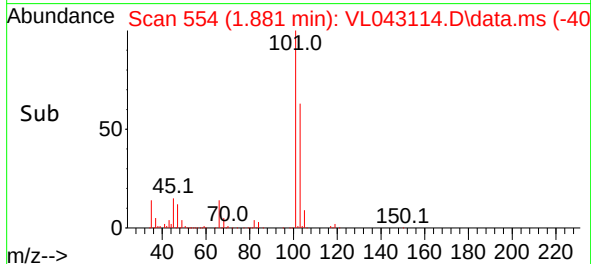
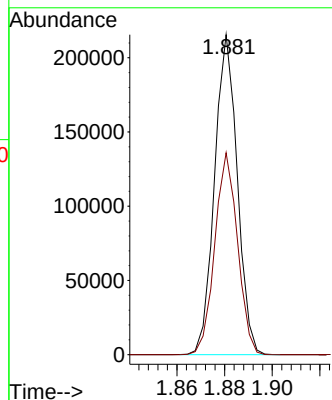
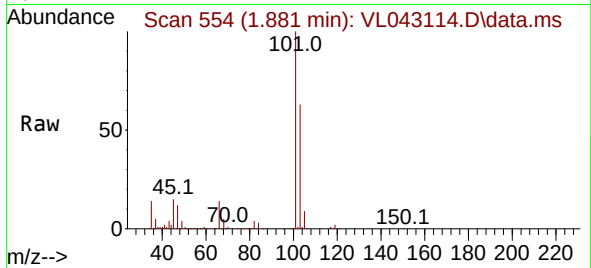




#11
 Trichlorofluoromethane
 Concen: 10.460 ppbv
 RT: 1.881 min Scan# 511
 Delta R.T. -0.000 min
 Lab File: VL043114.D
 Acq: 15 Oct 2025 08:43

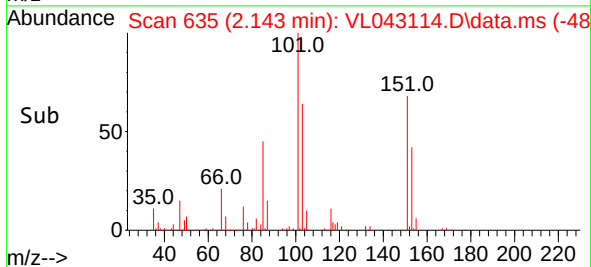
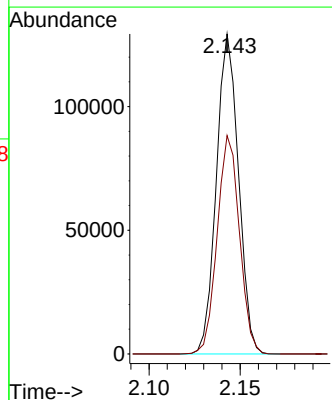
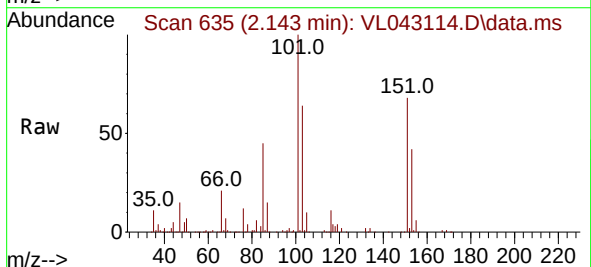
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

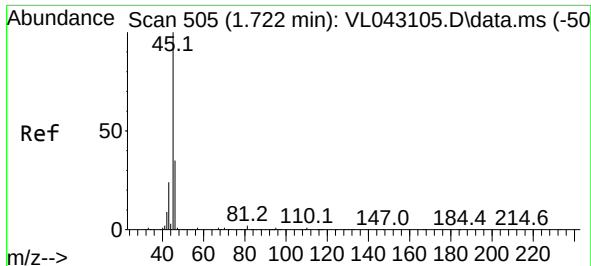
Tgt Ion:101 Resp: 142862
 Ion Ratio Lower Upper
 101 100
 103 63.1 49.3 73.9



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.930 ppbv
 RT: 2.143 min Scan# 635
 Delta R.T. -0.000 min
 Lab File: VL043114.D
 Acq: 15 Oct 2025 08:43

Tgt Ion:101 Resp: 109181
 Ion Ratio Lower Upper
 101 100
 151 68.7 54.7 82.1

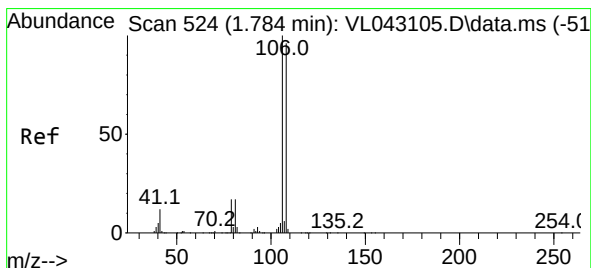
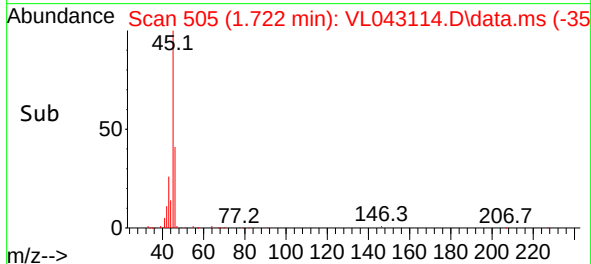
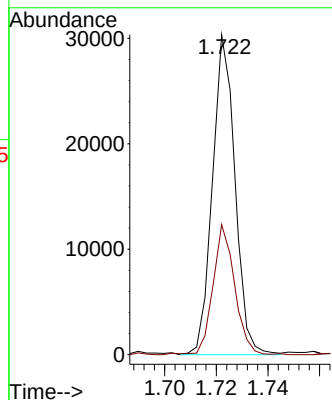
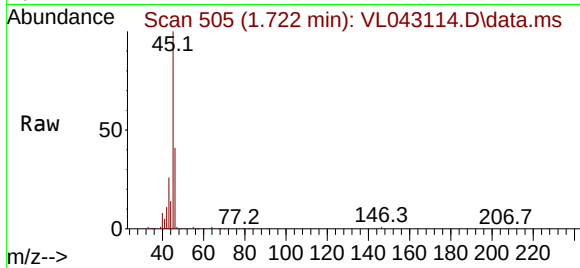




#13
Ethanol
Concen: 7.411 ppbv
RT: 1.722 min Scan# 505
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

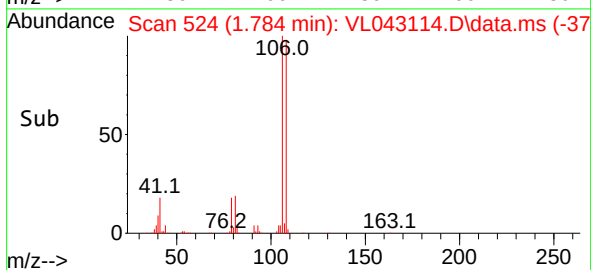
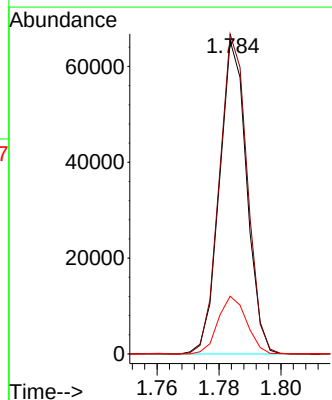
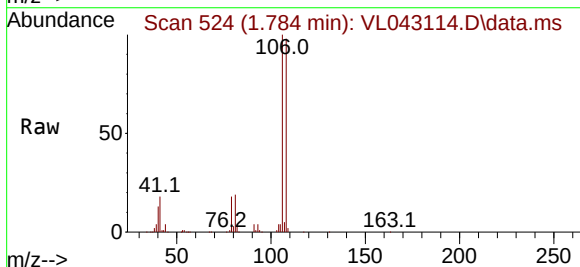
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

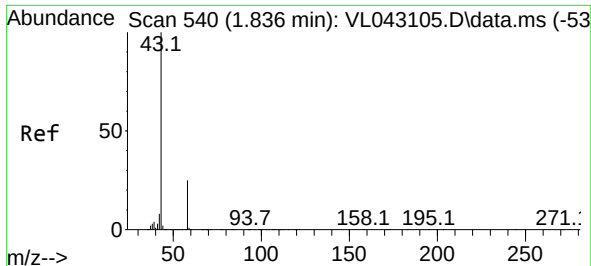
Tgt Ion: 45 Resp: 18366
Ion Ratio Lower Upper
45 100
46 39.3 14.7 58.9



#14
Bromoethene
Concen: 9.804 ppbv
RT: 1.784 min Scan# 524
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

Tgt Ion: 108 Resp: 40048
Ion Ratio Lower Upper
108 100
106 104.0 84.4 126.6
79 19.4 15.3 22.9

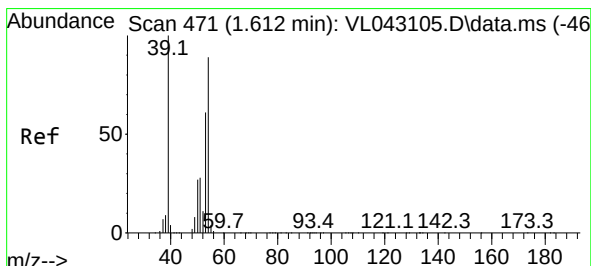
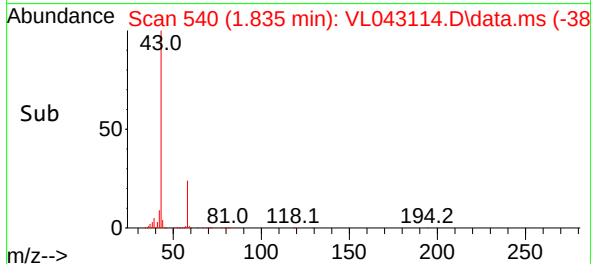
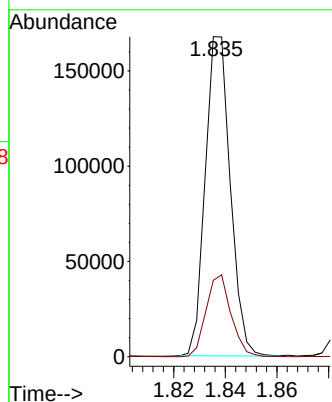
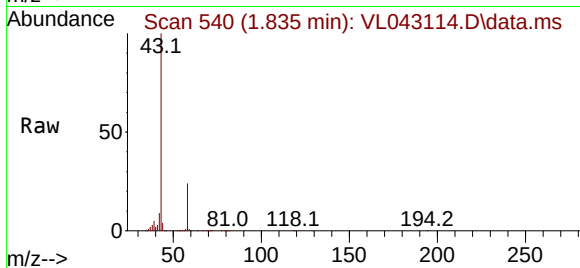




#15
Acetone
Concen: 8.539 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

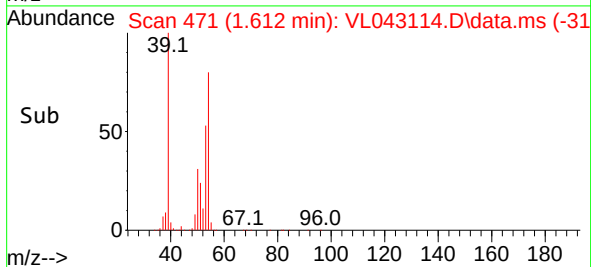
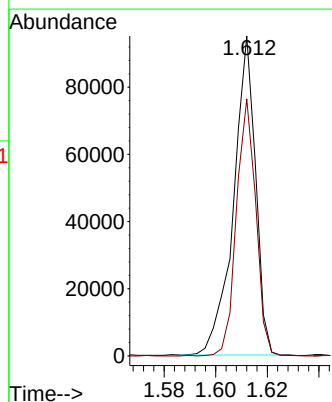
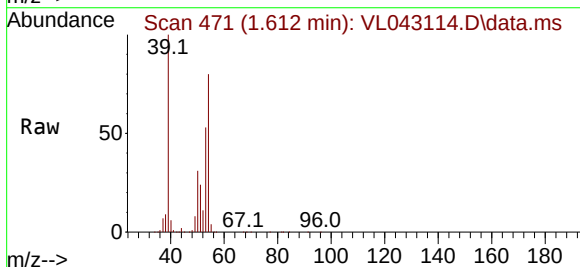
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

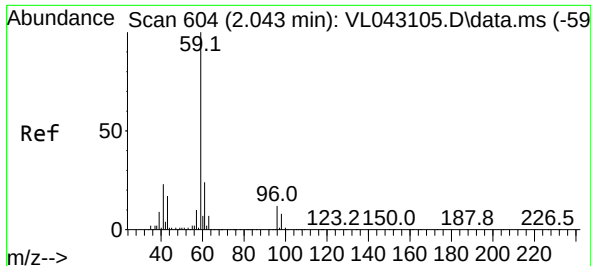
Tgt Ion: 43 Resp: 113033
Ion Ratio Lower Upper
43 100
58 25.6 20.8 31.2



#16
1,3-Butadiene
Concen: 8.944 ppbv
RT: 1.612 min Scan# 471
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

Tgt Ion: 39 Resp: 56426
Ion Ratio Lower Upper
39 100
54 70.9 59.0 88.4





#17

tert-Butyl alcohol

Concen: 9.621 ppbv

RT: 2.039 min Scan# 604

Delta R.T. -0.003 min

Lab File: VL043114.D

Acq: 15 Oct 2025 08:43

Instrument :

MSVOA_L

ClientSampleId :

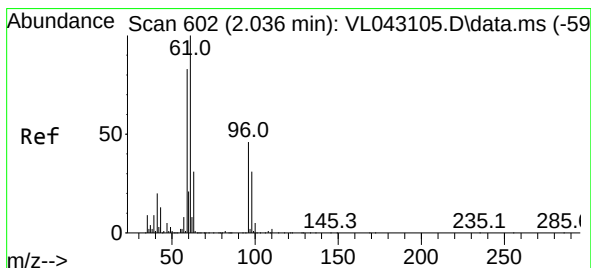
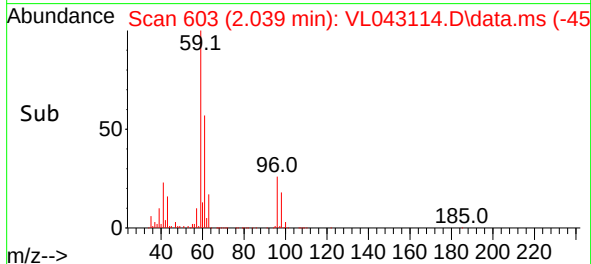
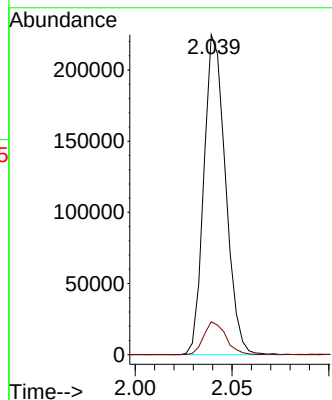
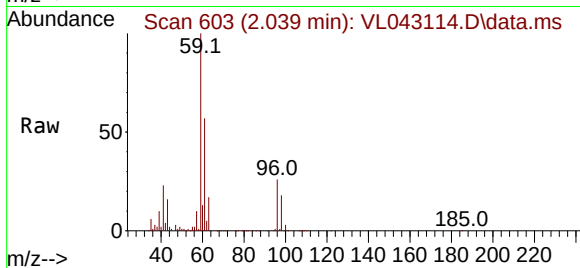
VSTDCCC010

Tgt Ion: 59 Resp: 174816

Ion Ratio Lower Upper

59 100

57 10.6 8.2 12.4



#18

1,1-Dichloroethene

Concen: 10.131 ppbv

RT: 2.036 min Scan# 602

Delta R.T. -0.000 min

Lab File: VL043114.D

Acq: 15 Oct 2025 08:43

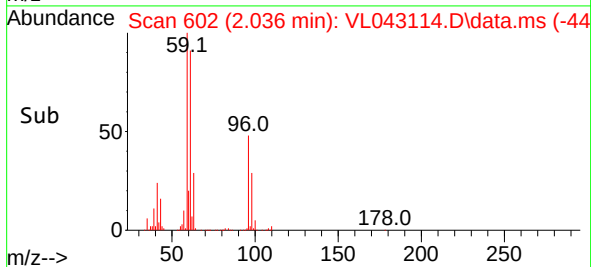
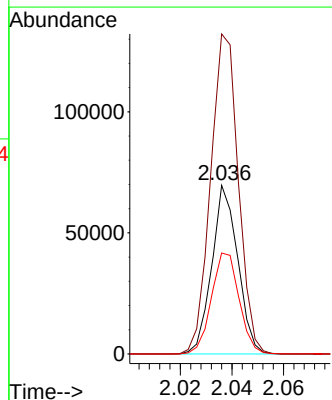
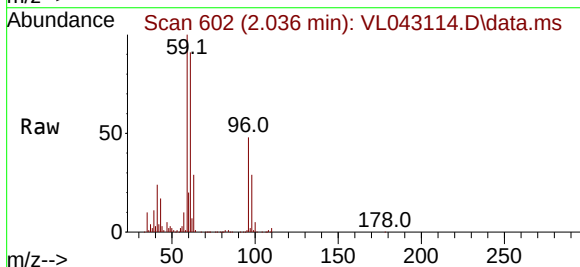
Tgt Ion: 96 Resp: 48563

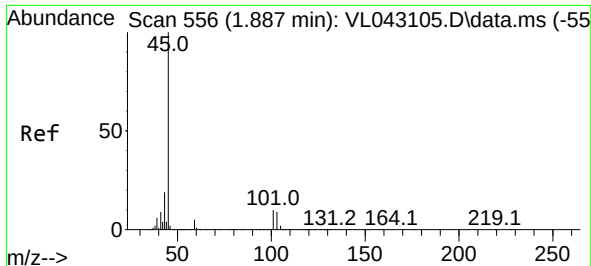
Ion Ratio Lower Upper

96 100

61 189.6 173.4 260.0

98 59.9 53.2 79.8

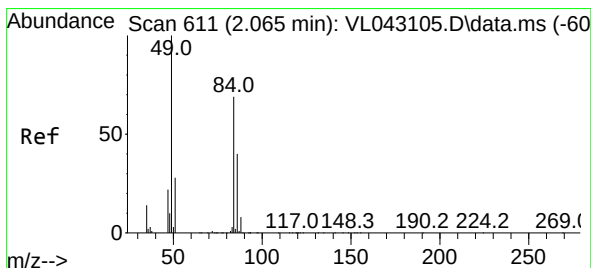
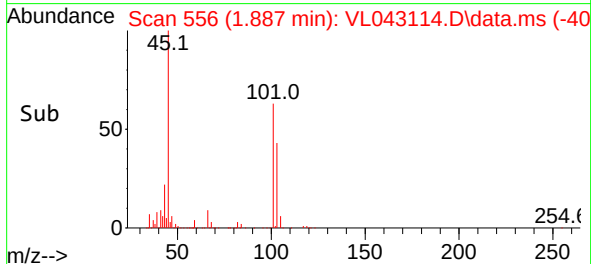
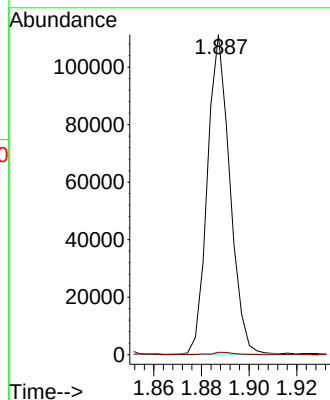
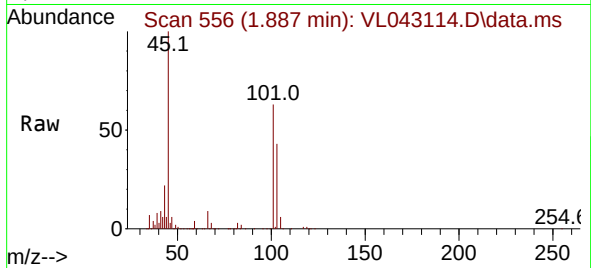




#19
Isopropyl Alcohol
Concen: 8.781 ppbv
RT: 1.887 min Scan# 556
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

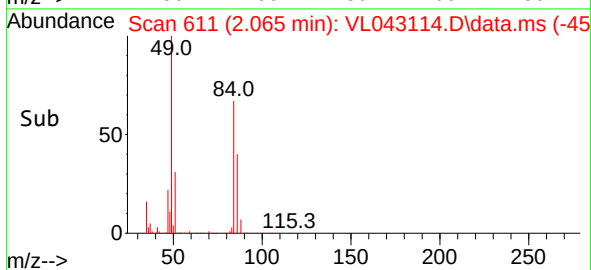
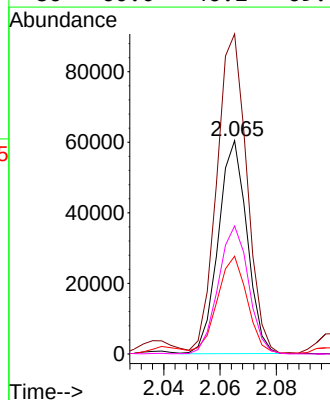
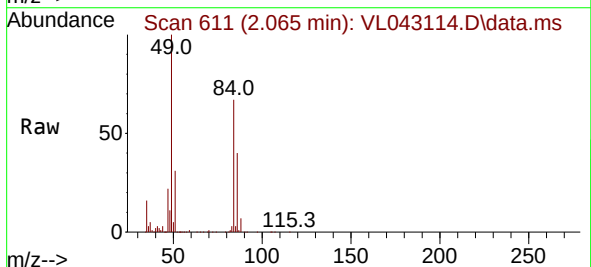
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

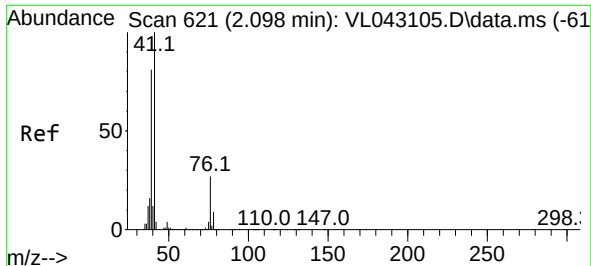
Tgt Ion: 45 Resp: 72396
Ion Ratio Lower Upper
45 100
58 40.0 31.3 46.9



#20
Methylene Chloride
Concen: 8.183 ppbv
RT: 2.065 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

Tgt Ion: 84 Resp: 42819
Ion Ratio Lower Upper
84 100
49 150.2 116.6 175.0
51 45.4 34.8 52.2
86 60.0 46.2 69.4

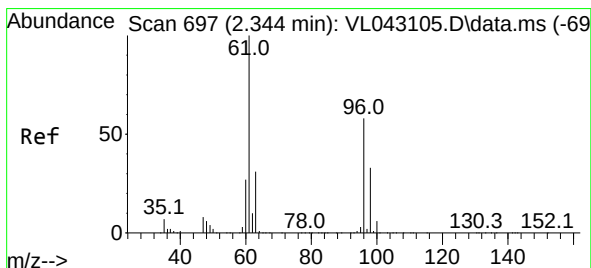
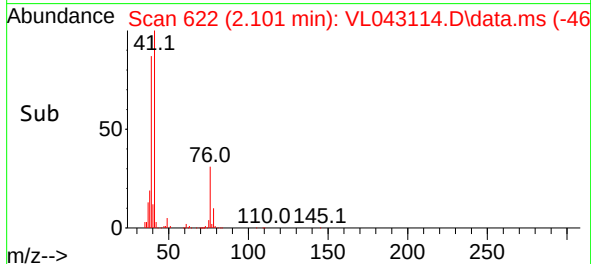
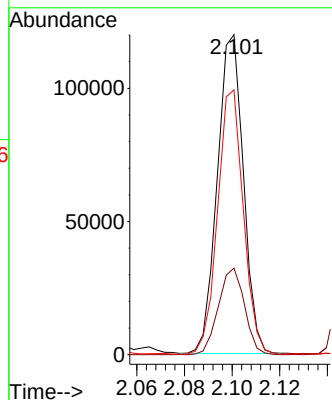
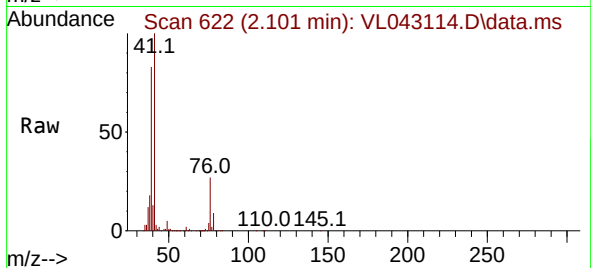




#21
 Allyl Chloride
 Concen: 9.338 ppbv
 RT: 2.101 min Scan# 611
 Delta R.T. 0.003 min
 Lab File: VL043114.D
 Acq: 15 Oct 2025 08:43

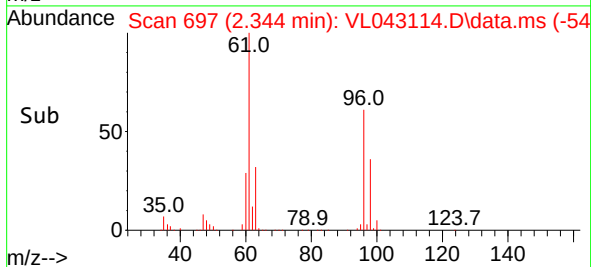
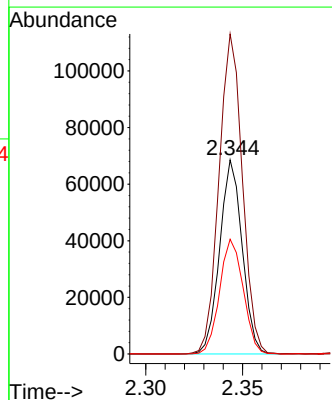
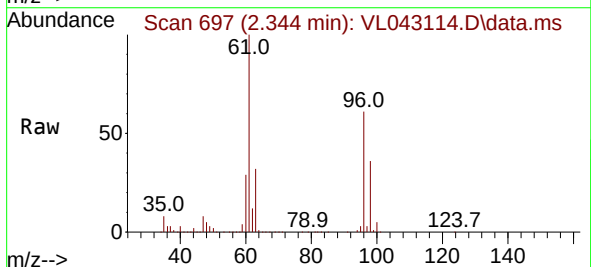
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010

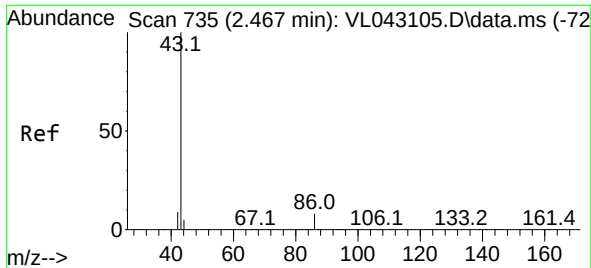
Tgt Ion: 41 Resp: 91089
 Ion Ratio Lower Upper
 41 100
 76 27.1 21.5 32.3
 39 81.7 60.8 91.2



#22
 trans-1,2-Dichloroethene
 Concen: 9.681 ppbv
 RT: 2.344 min Scan# 697
 Delta R.T. -0.000 min
 Lab File: VL043114.D
 Acq: 15 Oct 2025 08:43

Tgt Ion: 96 Resp: 55471
 Ion Ratio Lower Upper
 96 100
 61 164.9 137.0 205.6
 98 59.1 45.5 68.3

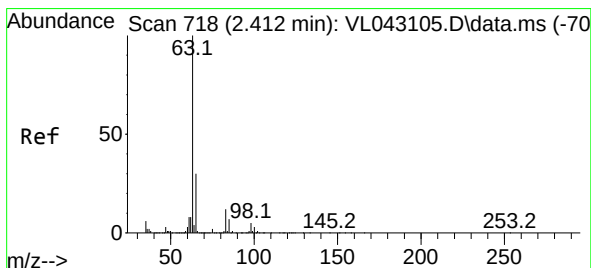
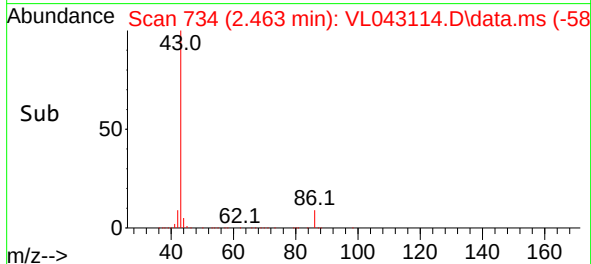
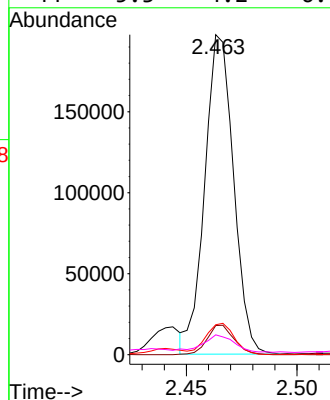
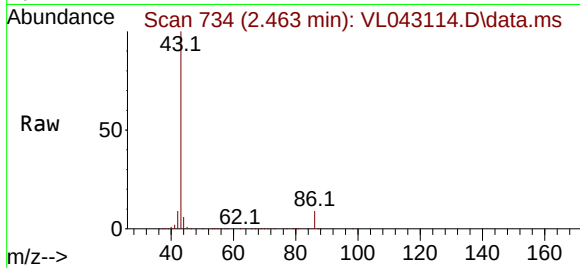




#23
 Vinyl Acetate
 Concen: 9.216 ppbv
 RT: 2.463 min Scan# 718
 Delta R.T. -0.004 min
 Lab File: VL043114.D
 Acq: 15 Oct 2025 08:43

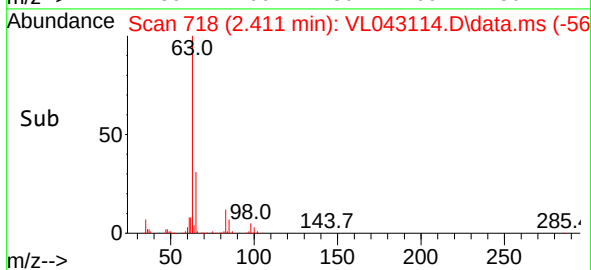
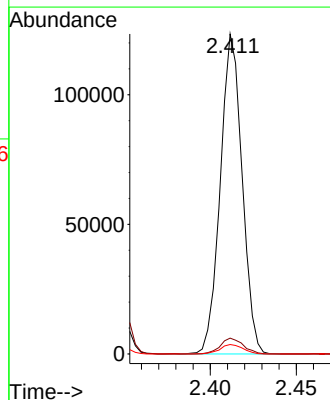
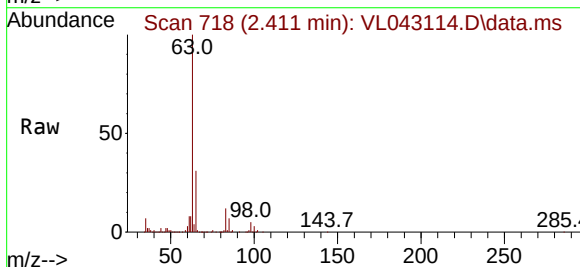
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010

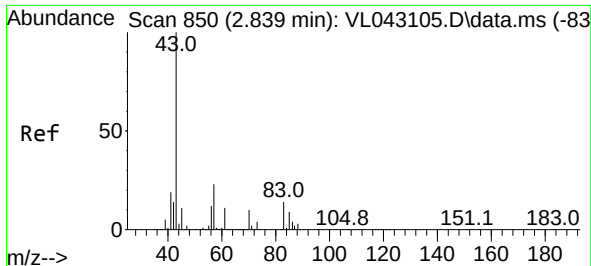
Tgt Ion:	43	Resp:	178708
Ion	Ratio	Lower	Upper
43	100		
86	9.1	6.2	9.2
42	9.3	7.6	11.4
44	5.3	4.2	6.4



#24
 1,1-Dichloroethane
 Concen: 9.847 ppbv
 RT: 2.411 min Scan# 718
 Delta R.T. -0.000 min
 Lab File: VL043114.D
 Acq: 15 Oct 2025 08:43

Tgt Ion:	63	Resp:	109016
Ion	Ratio	Lower	Upper
63	100		
98	4.9	2.6	7.8
100	2.9	1.5	4.4



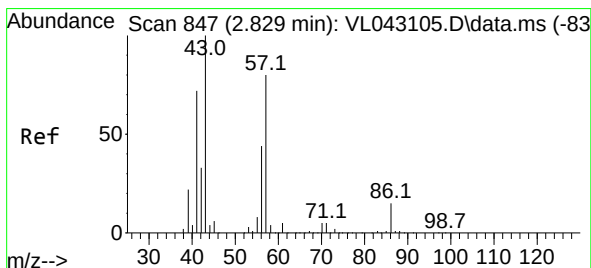
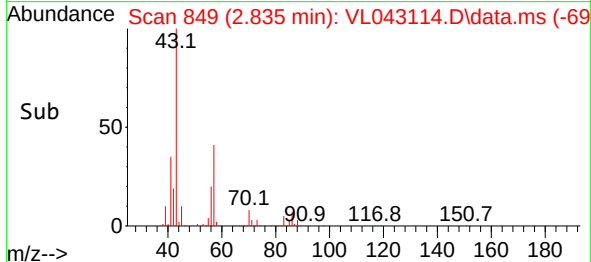
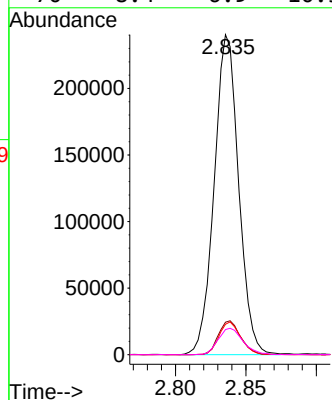
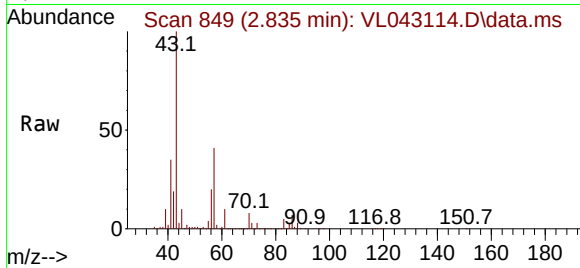


#25
Ethyl Acetate
Concen: 8.848 ppbv
RT: 2.835 min Scan# 849
Delta R.T. -0.003 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 43 Resp: 290447

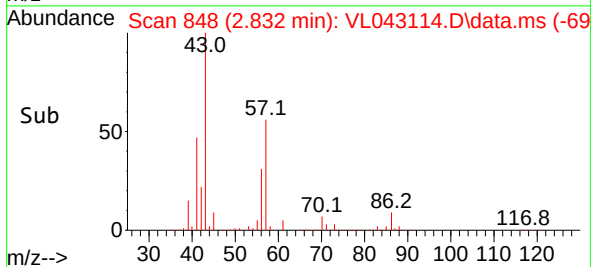
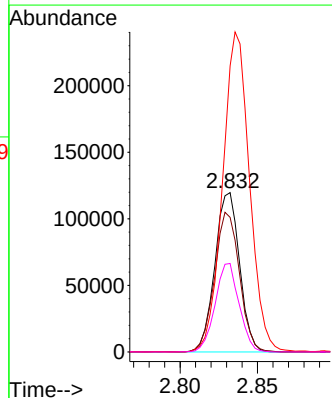
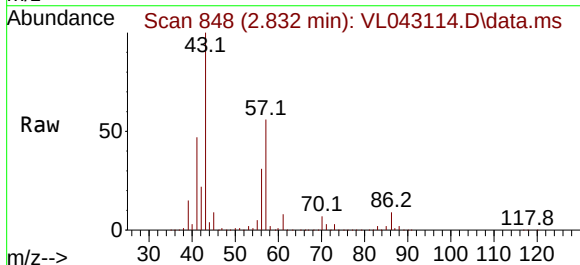
Ion	Ratio	Lower	Upper
43	100		
45	9.7	7.8	11.8
61	9.2	7.0	10.6
70	8.4	6.9	10.3

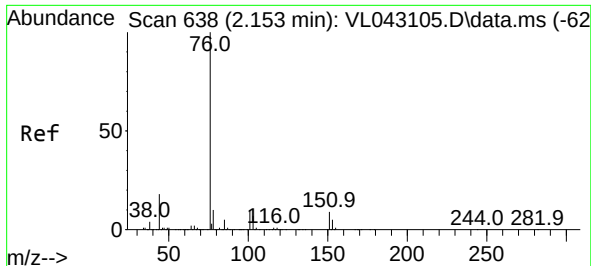


#26
Hexane
Concen: 8.766 ppbv
RT: 2.832 min Scan# 848
Delta R.T. 0.003 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

Tgt Ion: 57 Resp: 132602

Ion	Ratio	Lower	Upper
57	100		
41	88.8	71.4	107.0
43	220.5	178.5	267.7
56	54.0	42.2	63.4

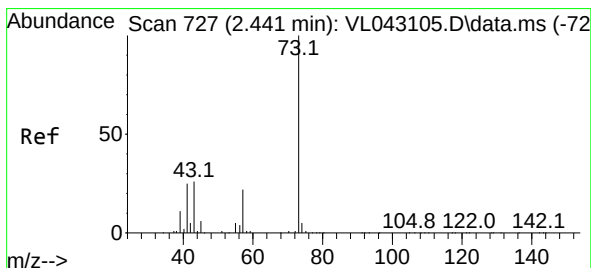
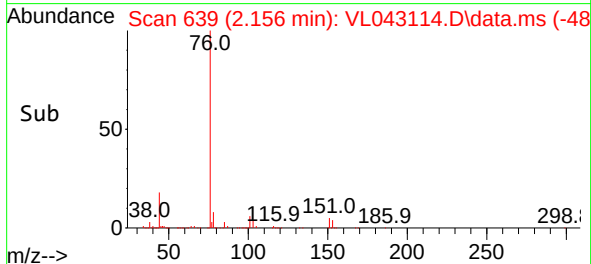
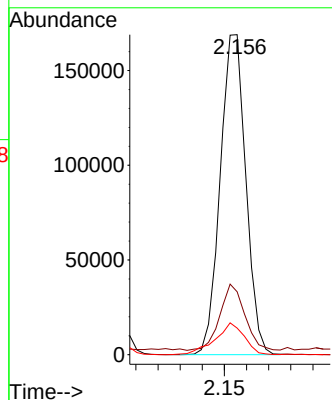
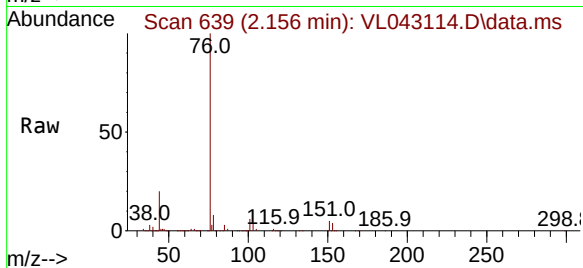




#27
Carbon Disulfide
Concen: 9.810 ppbv
RT: 2.156 min Scan# 611
Delta R.T. 0.003 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

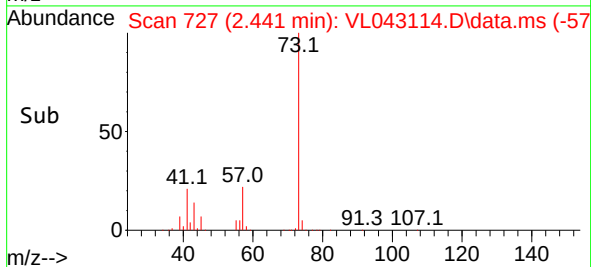
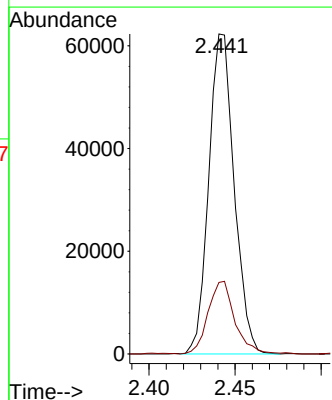
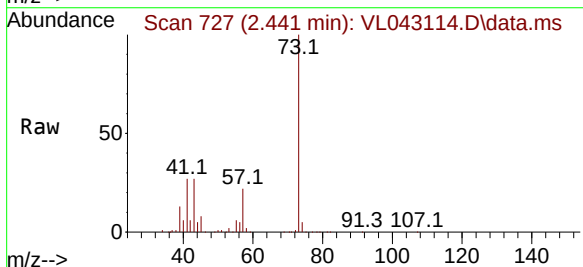
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

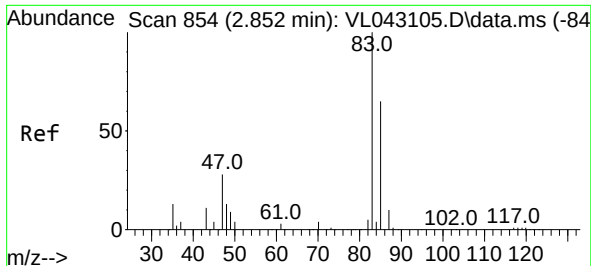
Tgt Ion: 76 Resp: 135963
Ion Ratio Lower Upper
76 100
44 29.5 16.7 25.1#
78 11.4 9.3 13.9



#28
Methyl tert-Butyl Ether
Concen: 9.290 ppbv
RT: 2.441 min Scan# 727
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

Tgt Ion: 73 Resp: 63933
Ion Ratio Lower Upper
73 100
57 24.3 20.5 30.7





#29

Chloroform

Concen: 9.458 ppbv

RT: 2.852 min Scan# 854

Delta R.T. -0.000 min

Lab File: VL043114.D

Acq: 15 Oct 2025 08:43

Instrument :

MSVOA_L

ClientSampleId :

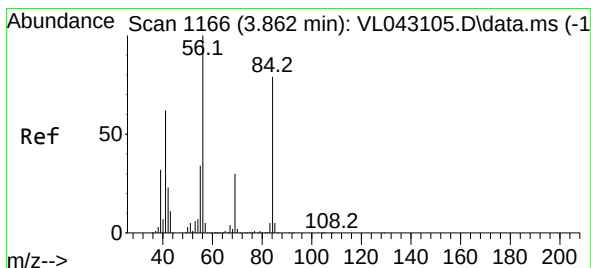
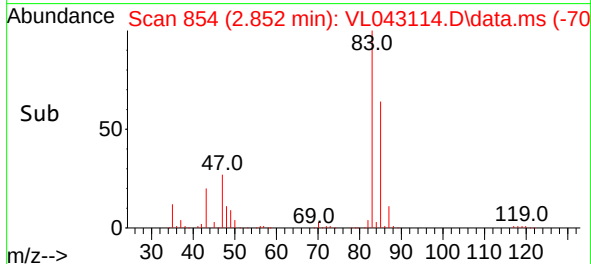
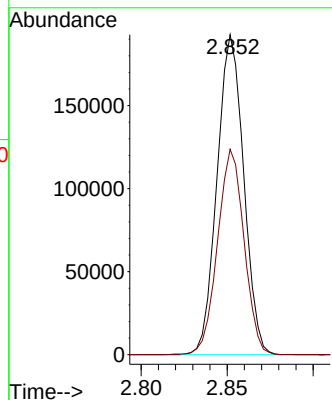
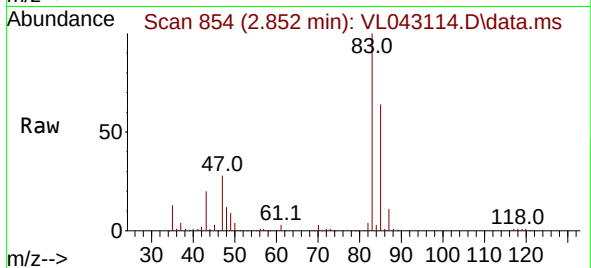
VSTDCCC010

Tgt Ion: 83 Resp: 207291

Ion Ratio Lower Upper

83 100

85 64.2 51.8 77.6



#30

Cyclohexane

Concen: 8.872 ppbv

RT: 3.861 min Scan# 1166

Delta R.T. -0.000 min

Lab File: VL043114.D

Acq: 15 Oct 2025 08:43

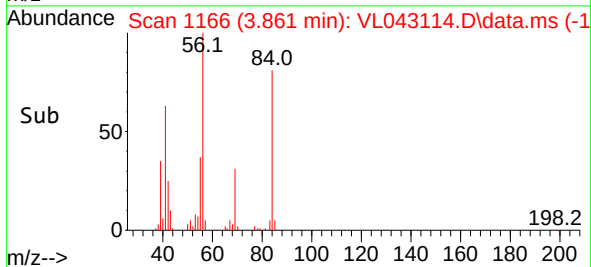
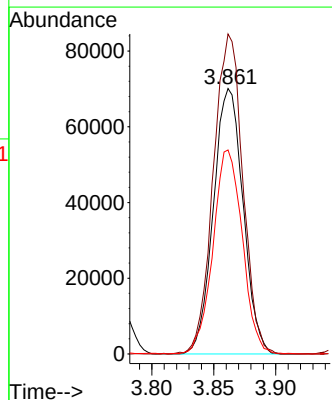
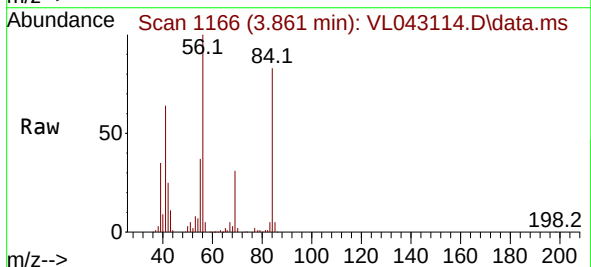
Tgt Ion: 84 Resp: 117130

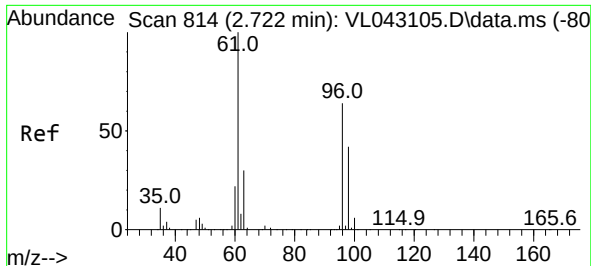
Ion Ratio Lower Upper

84 100

56 119.7 100.9 151.3

41 76.0 63.8 95.6

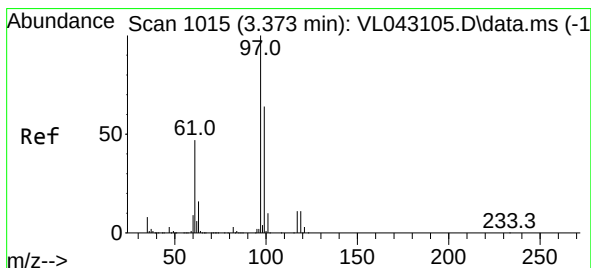
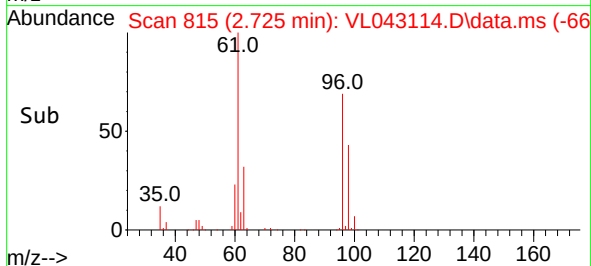
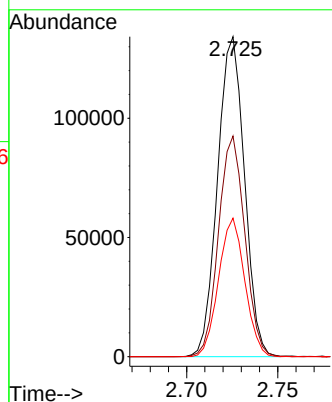
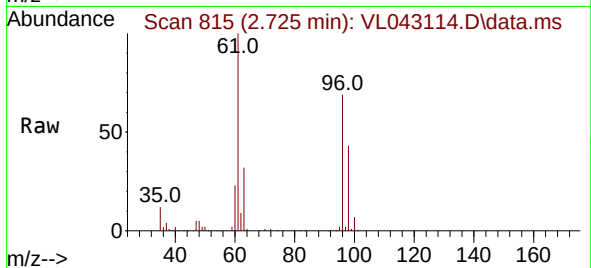




#31
 cis-1,2-Dichloroethene
 Concen: 9.551 ppbv
 RT: 2.725 min Scan# 814
 Delta R.T. 0.003 min
 Lab File: VL043114.D
 Acq: 15 Oct 2025 08:43

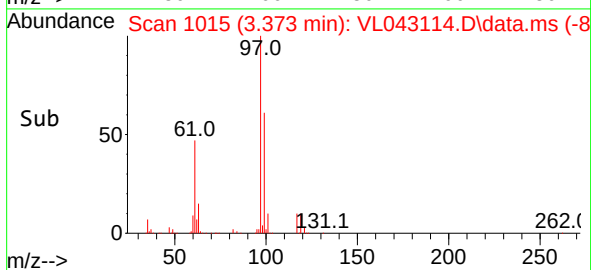
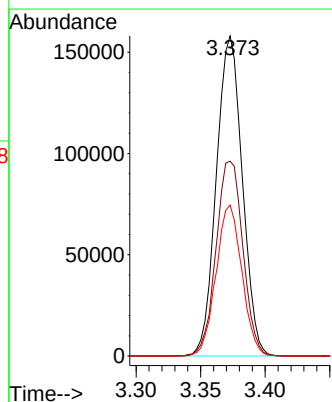
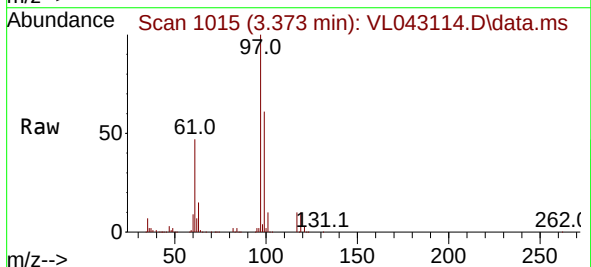
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010

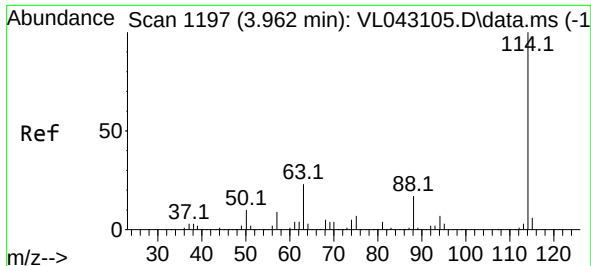
Tgt Ion: 61 Resp: 137958
 Ion Ratio Lower Upper
 61 100
 96 68.9 51.0 76.6
 98 43.3 33.5 50.3



#32
 1,1,1-Trichloroethane
 Concen: 9.688 ppbv
 RT: 3.373 min Scan# 1015
 Delta R.T. -0.000 min
 Lab File: VL043114.D
 Acq: 15 Oct 2025 08:43

Tgt Ion: 97 Resp: 221109
 Ion Ratio Lower Upper
 97 100
 99 62.9 51.3 76.9
 61 46.9 38.4 57.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. -0.000 min

Lab File: VL043114.D

Acq: 15 Oct 2025 08:43

Instrument :

MSVOA_1

ClientSampleId :

VSTDCCC010

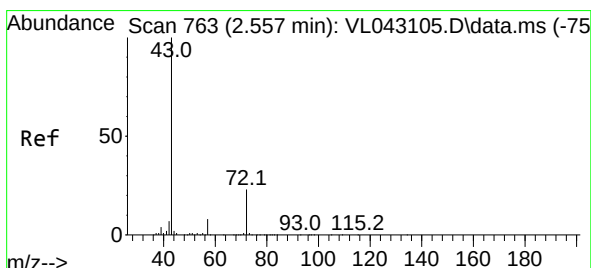
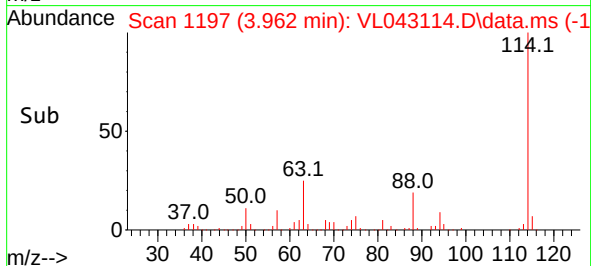
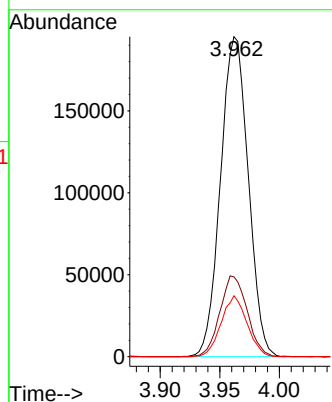
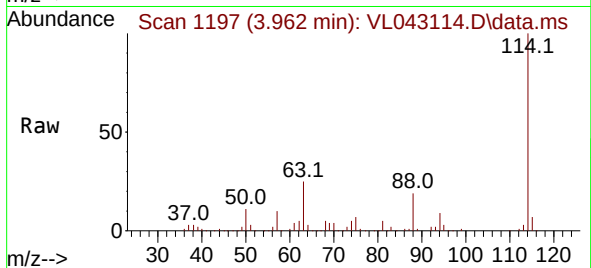
Tgt Ion:114 Resp: 316115

Ion Ratio Lower Upper

114 100

63 24.8 19.3 28.9

88 17.7 13.9 20.9



#34

2-Butanone

Concen: 8.917 ppbv

RT: 2.557 min Scan# 763

Delta R.T. -0.000 min

Lab File: VL043114.D

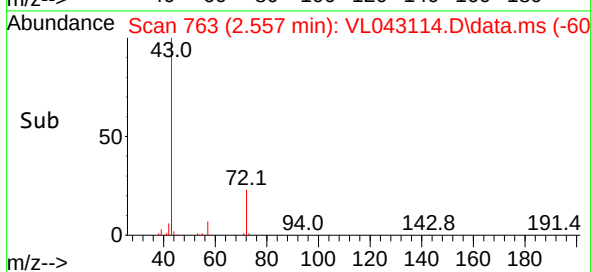
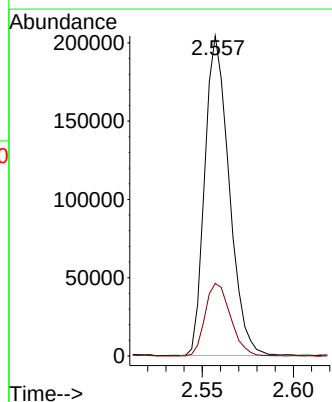
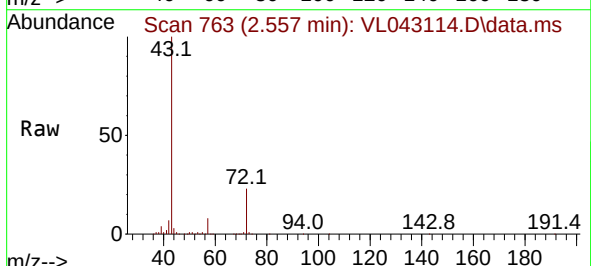
Acq: 15 Oct 2025 08:43

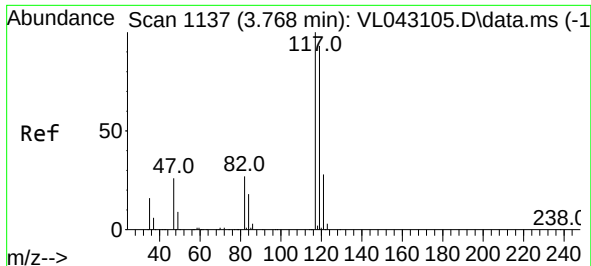
Tgt Ion: 43 Resp: 189478

Ion Ratio Lower Upper

43 100

72 23.7 18.4 27.6

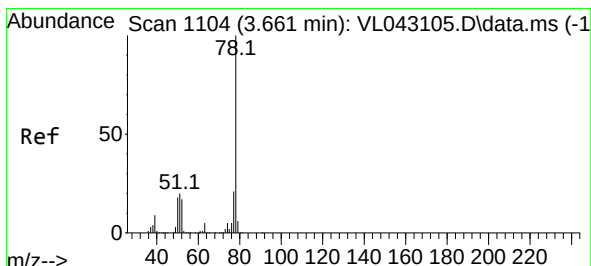
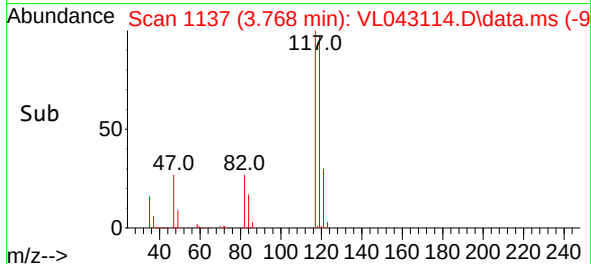
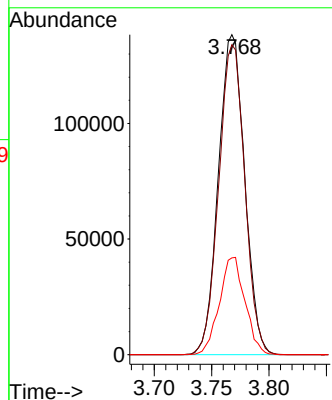
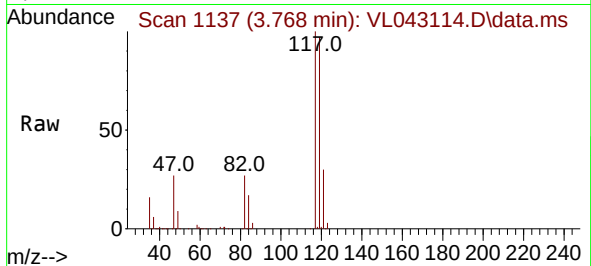




#35
Carbon Tetrachloride
Concen: 9.702 ppbv
RT: 3.768 min Scan# 1137
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

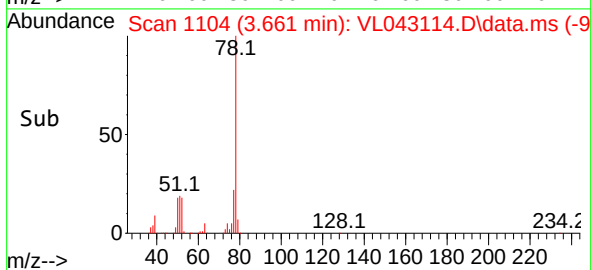
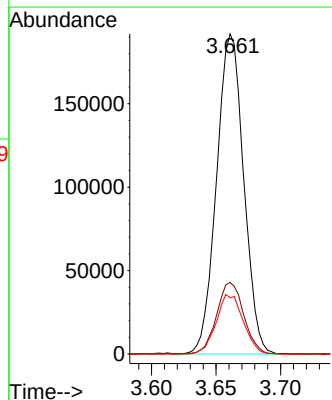
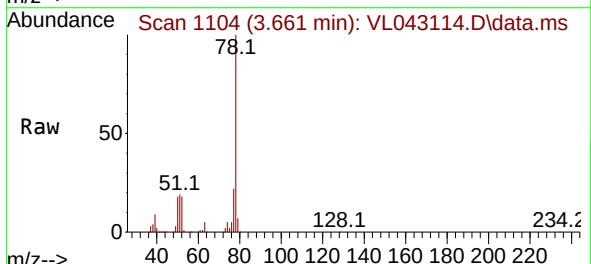
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

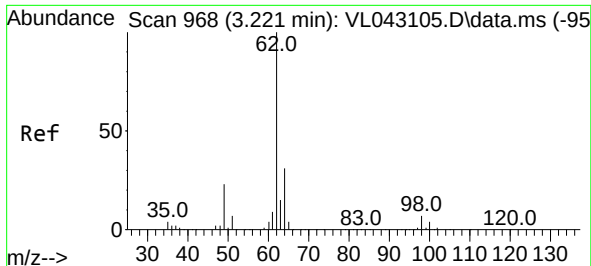
Tgt Ion:117 Resp: 220510
Ion Ratio Lower Upper
117 100
119 96.9 74.1 111.1
121 30.2 22.2 33.2



#36
Benzene
Concen: 9.405 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

Tgt Ion: 78 Resp: 280028
Ion Ratio Lower Upper
78 100
77 22.3 17.0 25.6
50 17.6 14.6 22.0

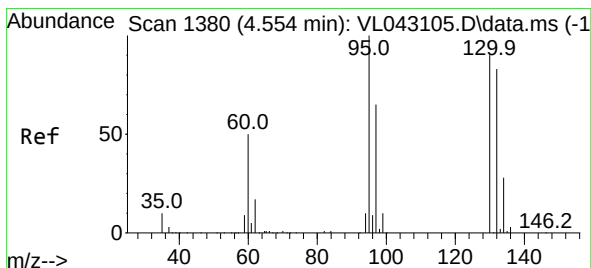
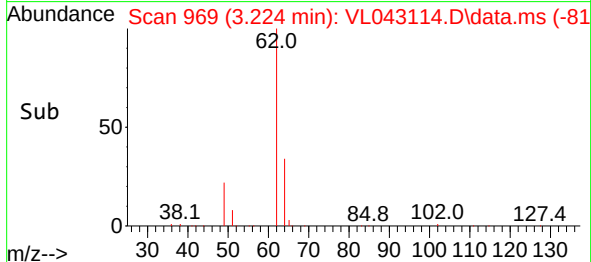
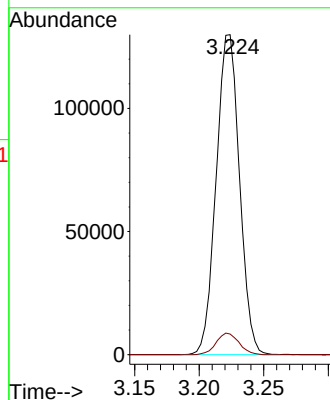
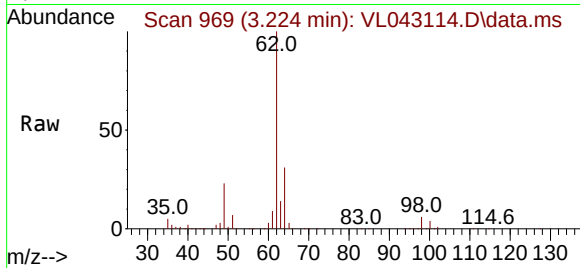




#37
1,2-Dichloroethane
Concen: 9.506 ppbv
RT: 3.224 min Scan# 90
Delta R.T. 0.003 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

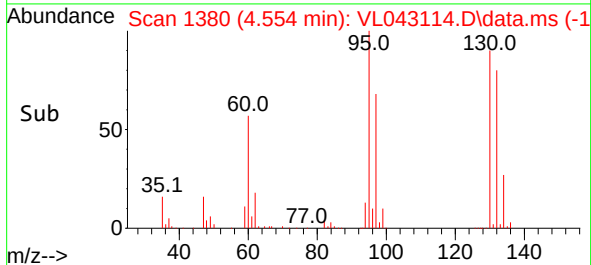
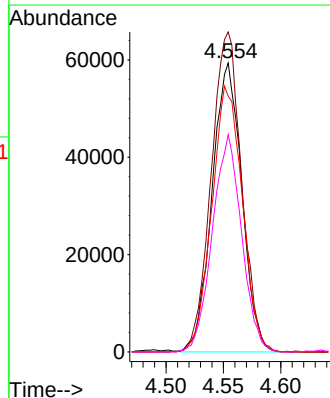
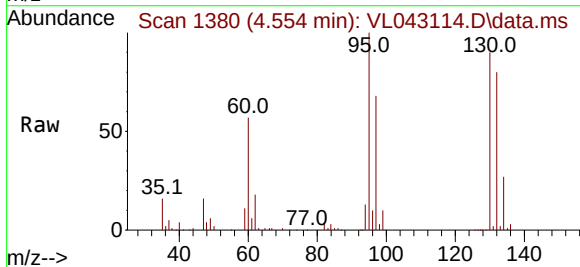
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

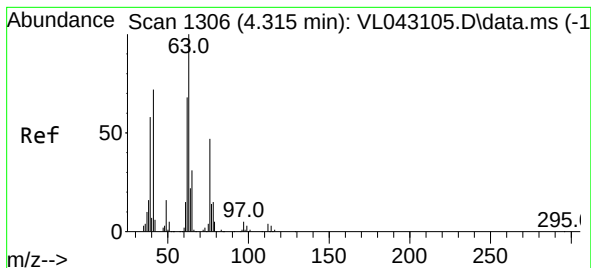
Tgt Ion: 62 Resp: 163041
Ion Ratio Lower Upper
62 100
98 6.6 5.8 8.6



#38
Trichloroethene
Concen: 8.597 ppbv
RT: 4.554 min Scan# 1380
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

Tgt Ion:130 Resp: 106893
Ion Ratio Lower Upper
130 100
95 110.5 88.6 133.0
132 88.4 73.4 110.0
97 75.2 57.8 86.6





#39

1,2-Dichloropropane

Concen: 9.057 ppbv

RT: 4.318 min Scan# 11

Delta R.T. 0.003 min

Lab File: VL043114.D

Acq: 15 Oct 2025 08:43

Instrument :

MSVOA_1

ClientSampleId :

VSTDCCC010

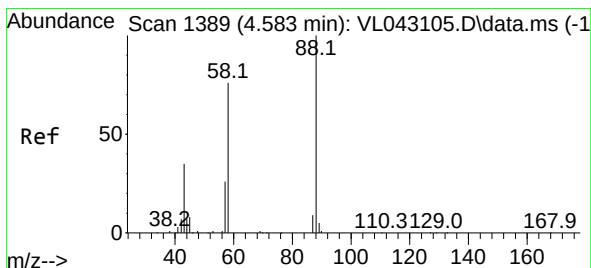
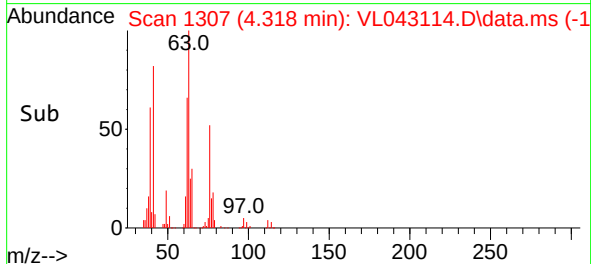
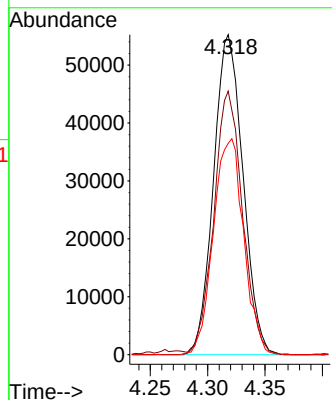
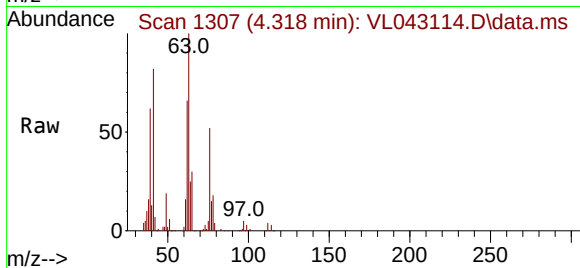
Tgt Ion: 63 Resp: 98585

Ion Ratio Lower Upper

63 100

41 82.2 58.0 87.0

62 66.0 54.7 82.1



#40

1,4-Dioxane

Concen: 9.142 ppbv

RT: 4.580 min Scan# 1388

Delta R.T. -0.003 min

Lab File: VL043114.D

Acq: 15 Oct 2025 08:43

Tgt Ion: 88 Resp: 44526

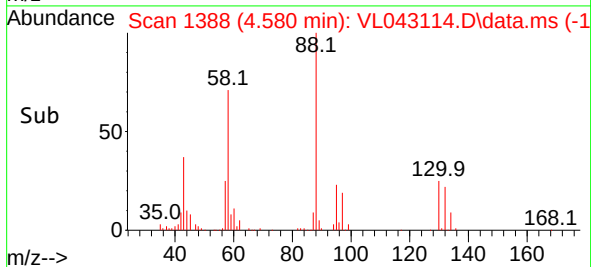
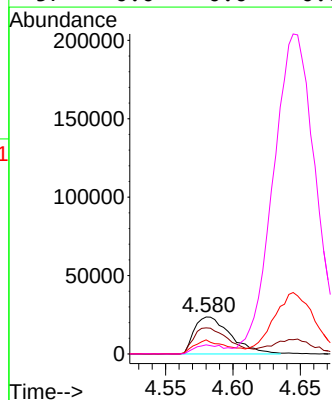
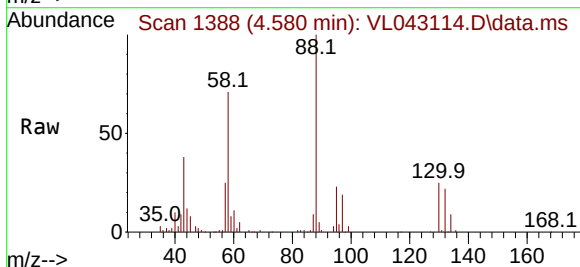
Ion Ratio Lower Upper

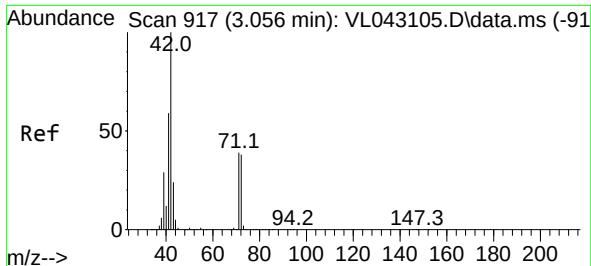
88 100

58 70.6 61.1 91.7

43 34.9 24.0 36.0

57 0.0 0.0 0.0

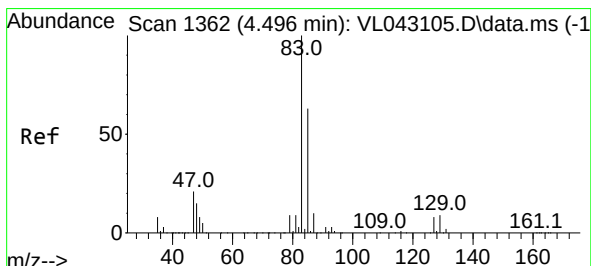
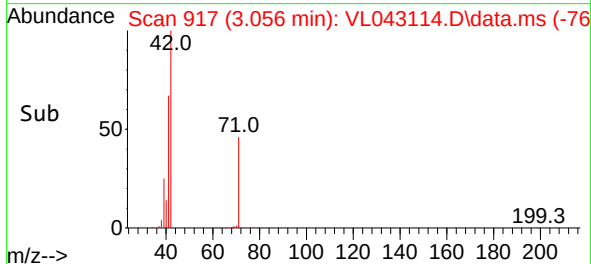
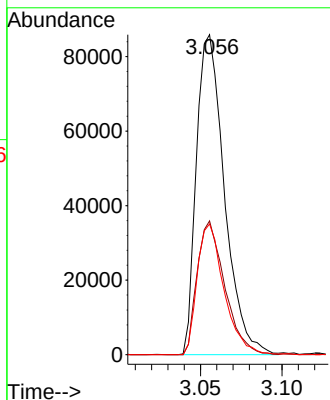
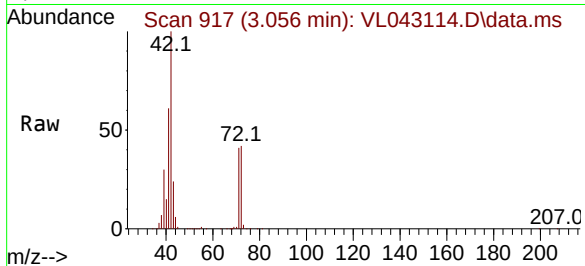




#41
Tetrahydrofuran
Concen: 8.646 ppbv
RT: 3.056 min Scan# 917
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

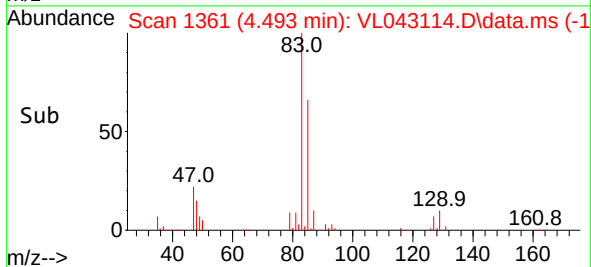
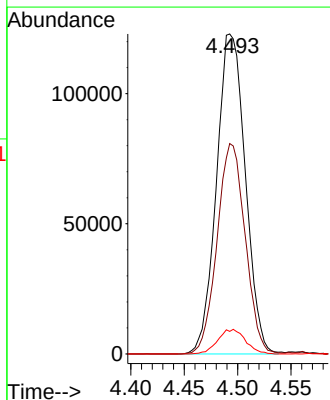
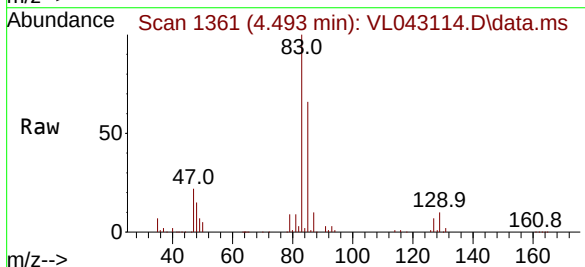
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

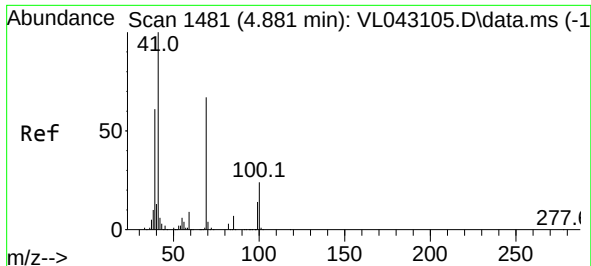
Tgt Ion: 42 Resp: 102758
Ion Ratio Lower Upper
42 100
72 41.2 31.3 46.9
71 39.2 30.4 45.6



#42
Bromodichloromethane
Concen: 9.731 ppbv
RT: 4.493 min Scan# 1361
Delta R.T. -0.003 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

Tgt Ion: 83 Resp: 231006
Ion Ratio Lower Upper
83 100
85 65.7 50.6 75.8
127 7.0 6.3 9.5

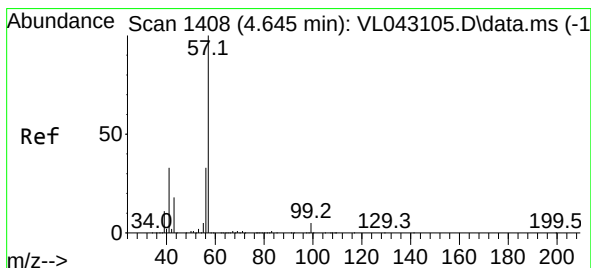
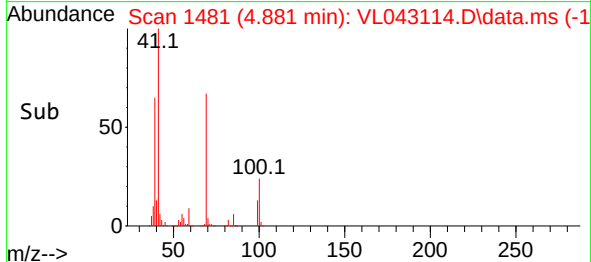
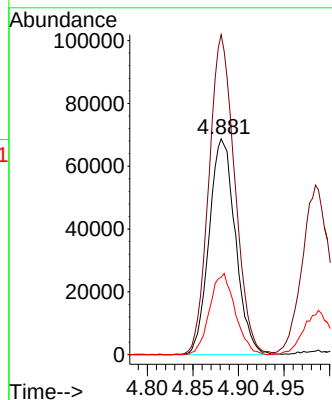
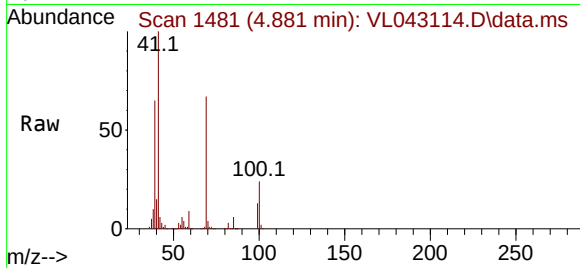




#43
Methyl Methacrylate
Concen: 9.107 ppbv
RT: 4.881 min Scan# 1481
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

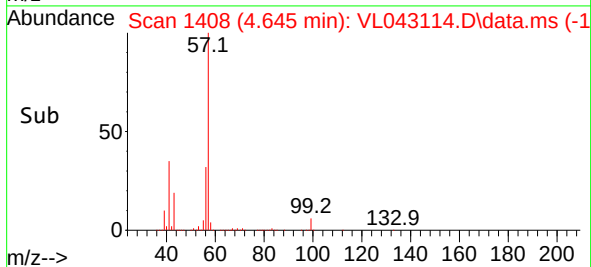
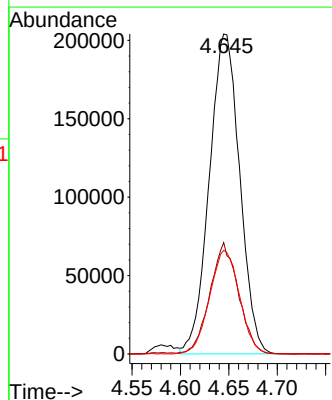
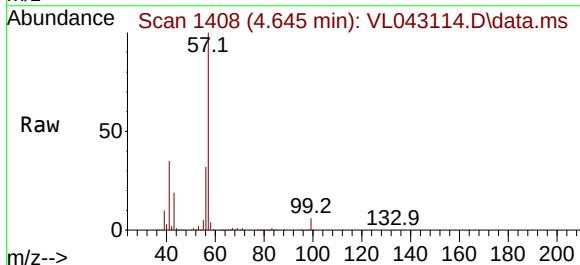
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

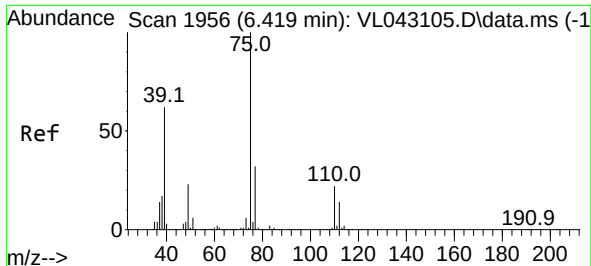
Tgt Ion: 69 Resp: 137710
Ion Ratio Lower Upper
69 100
41 145.9 120.5 180.7
100 36.7 29.0 43.4



#44
2,2,4-Trimethylpentane
Concen: 8.854 ppbv
RT: 4.645 min Scan# 1408
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

Tgt Ion: 57 Resp: 444749
Ion Ratio Lower Upper
57 100
41 33.1 26.3 39.5
56 32.0 25.9 38.9





#45

t-1,3-Dichloropropene

Concen: 9.477 ppbv

RT: 6.418 min Scan# 1956

Delta R.T. -0.000 min

Lab File: VL043114.D

Acq: 15 Oct 2025 08:43

Instrument :

MSVOA_L

ClientSampleId :

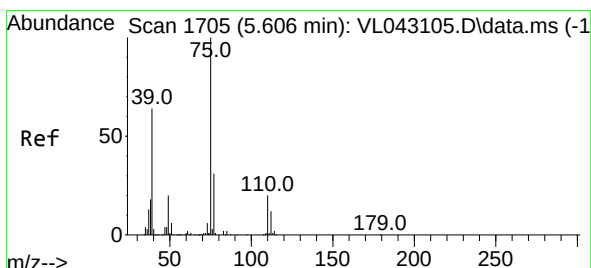
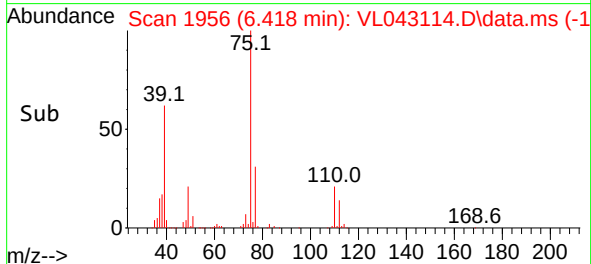
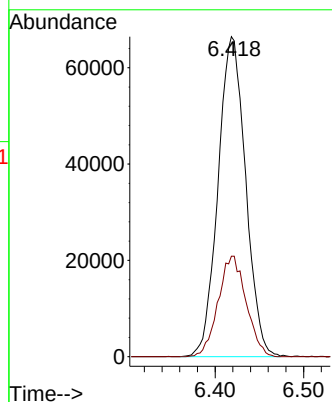
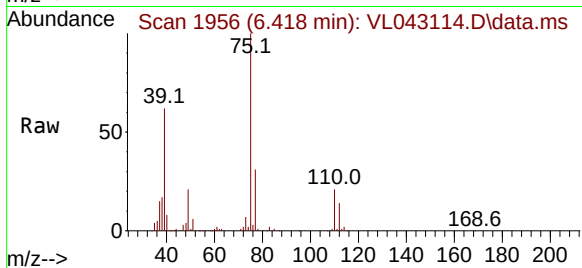
VSTDCCC010

Tgt Ion: 75 Resp: 143812

Ion Ratio Lower Upper

75 100

77 31.4 25.4 38.2



#46

cis-1,3-Dichloropropene

Concen: 9.306 ppbv

RT: 5.603 min Scan# 1704

Delta R.T. -0.004 min

Lab File: VL043114.D

Acq: 15 Oct 2025 08:43

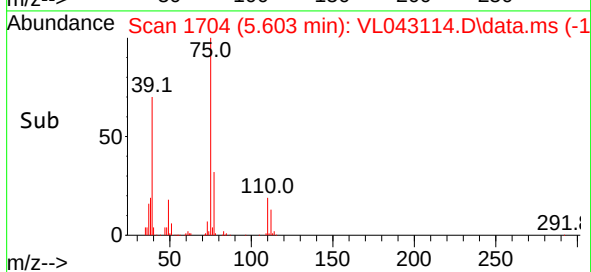
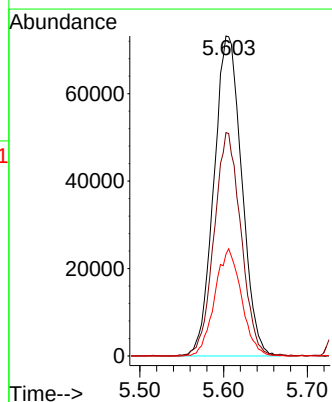
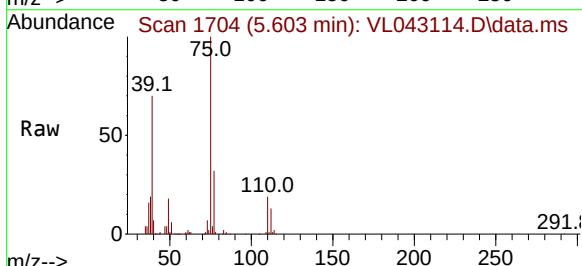
Tgt Ion: 75 Resp: 168699

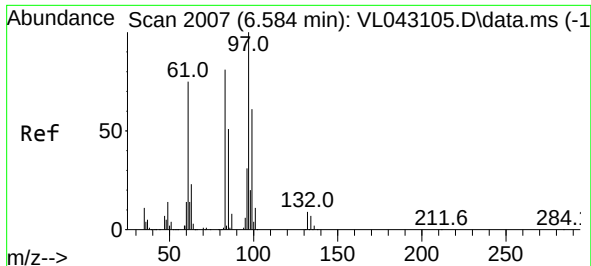
Ion Ratio Lower Upper

75 100

39 69.5 51.0 76.6

77 31.8 25.0 37.4





#47

1,1,2-Trichloroethane

Concen: 9.145 ppbv

RT: 6.583 min Scan# 2007

Delta R.T. -0.000 min

Lab File: VL043114.D

Acq: 15 Oct 2025 08:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 97 Resp: 107487

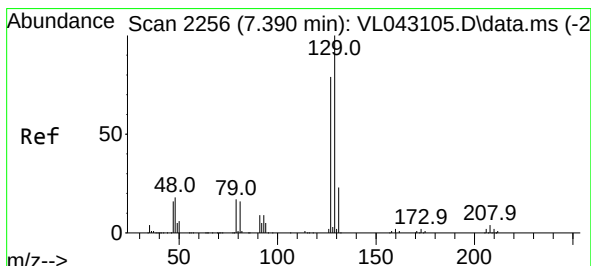
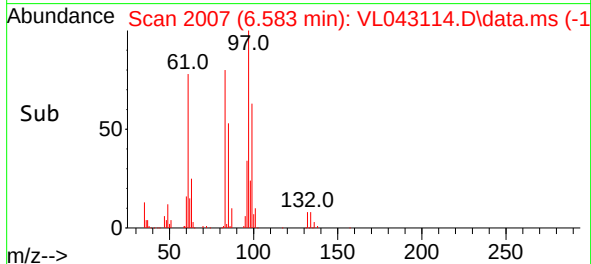
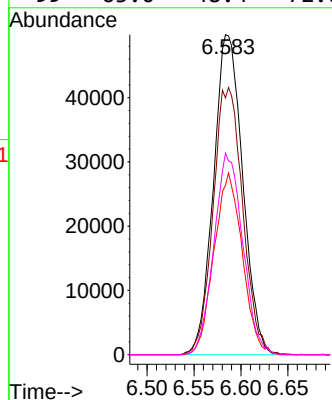
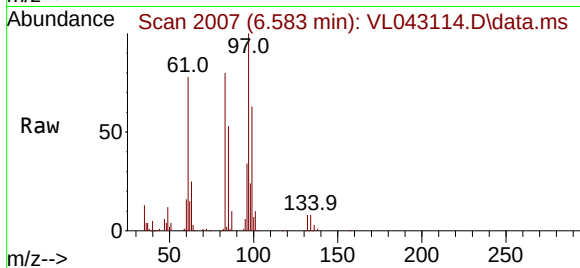
Ion Ratio Lower Upper

97 100

83 80.3 64.6 96.8

85 53.0 40.6 60.8

99 63.0 48.4 72.6



#48

Dibromochloromethane

Concen: 9.504 ppbv

RT: 7.389 min Scan# 2256

Delta R.T. -0.000 min

Lab File: VL043114.D

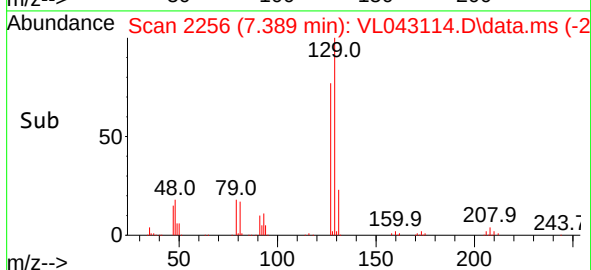
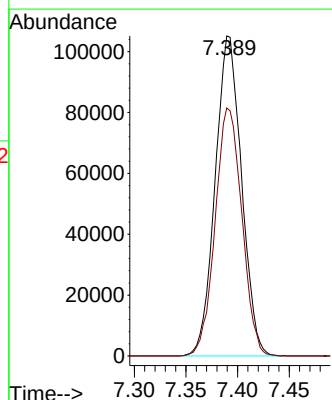
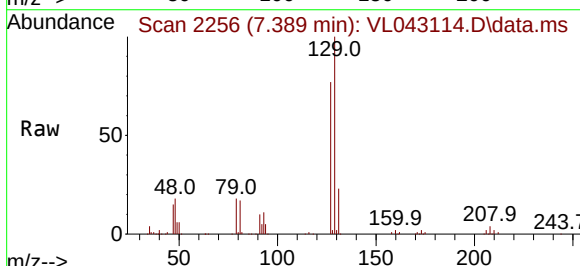
Acq: 15 Oct 2025 08:43

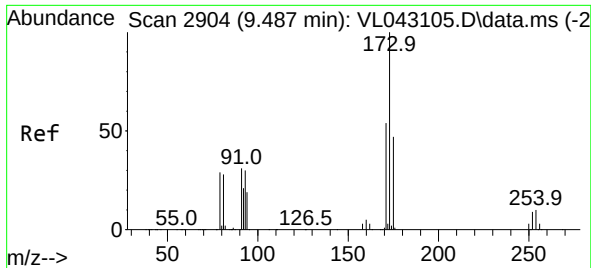
Tgt Ion: 129 Resp: 186784

Ion Ratio Lower Upper

129 100

127 78.5 39.3 117.9

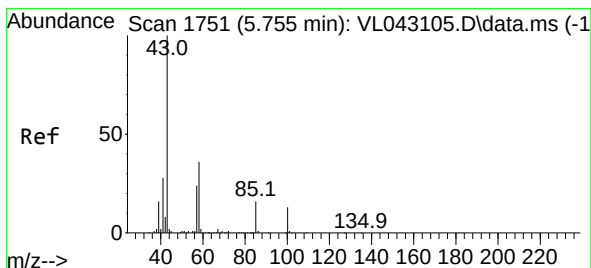
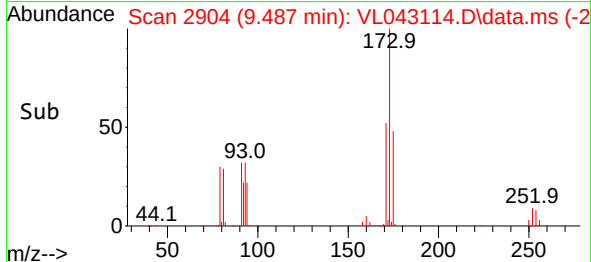
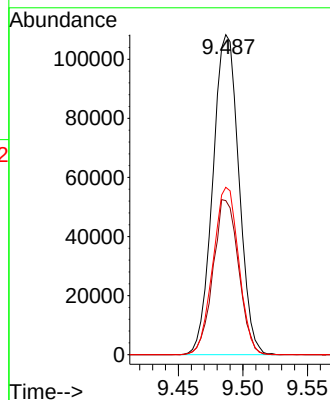
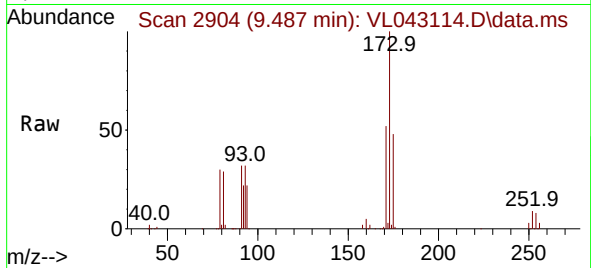




#49
Bromoform
Concen: 9.523 ppbv
RT: 9.487 min Scan# 2904
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

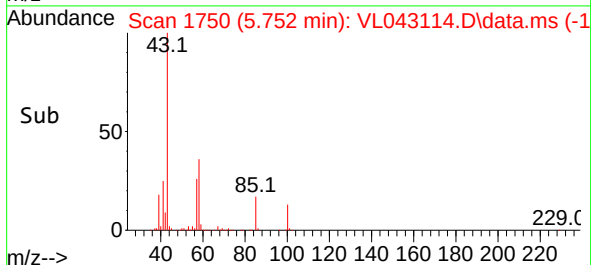
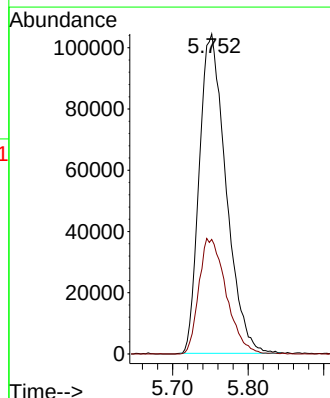
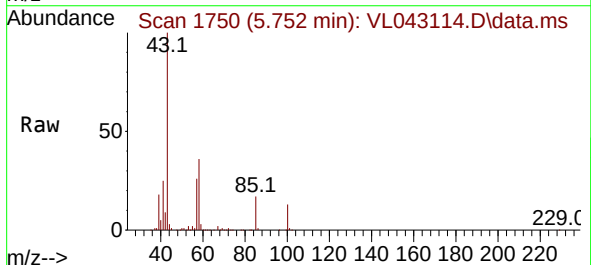
Instrument : MSVOA_L
ClientSampleId : VSTDCCC010

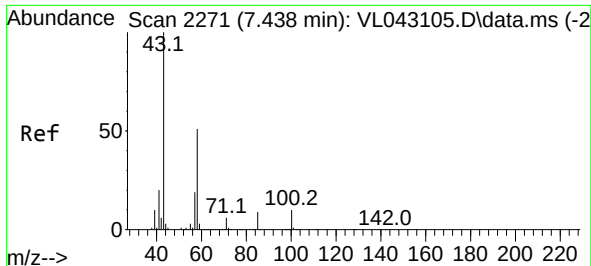
Tgt Ion:173 Resp: 152127
Ion Ratio Lower Upper
173 100
175 47.6 38.8 58.2
171 51.6 41.7 62.5



#50
4-Methyl-2-Pentanone
Concen: 8.734 ppbv
RT: 5.752 min Scan# 1750
Delta R.T. -0.003 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

Tgt Ion: 43 Resp: 256116
Ion Ratio Lower Upper
43 100
58 37.1 29.1 43.7

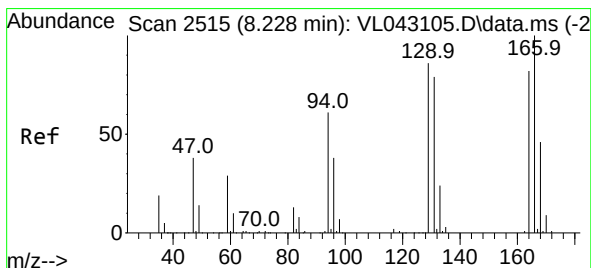
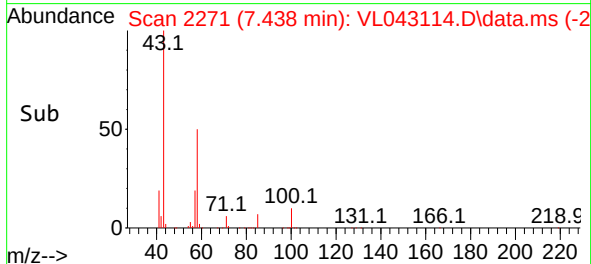
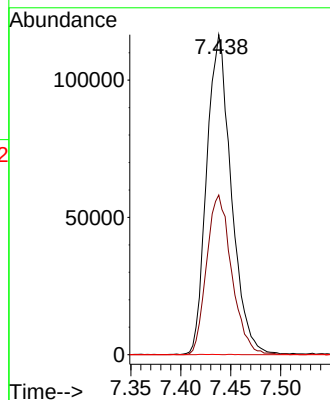
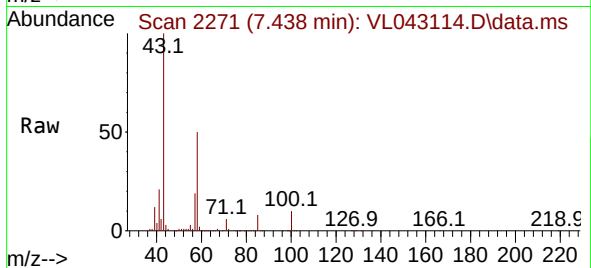




#51
2-Hexanone
Concen: 9.057 ppbv
RT: 7.438 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

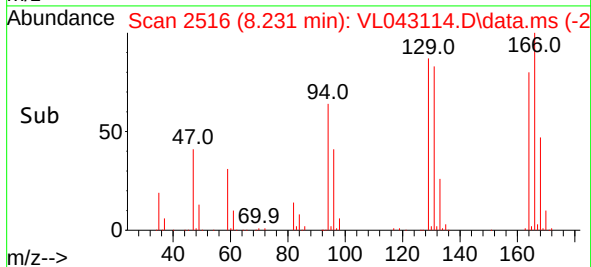
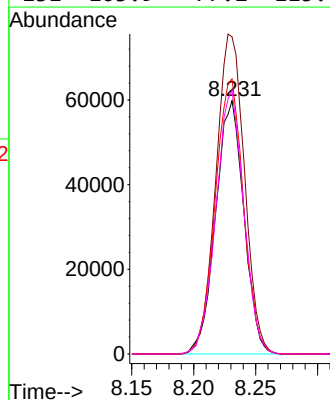
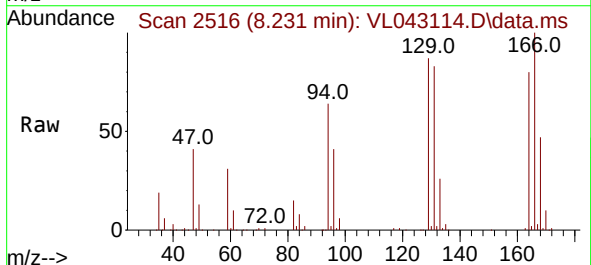
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

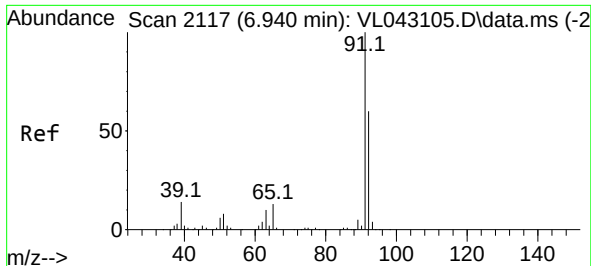
Tgt Ion: 43 Resp: 199219
Ion Ratio Lower Upper
43 100
58 51.1 40.4 60.6
98 0.1 0.1 0.1



#52
Tetrachloroethene
Concen: 8.820 ppbv
RT: 8.231 min Scan# 2516
Delta R.T. 0.003 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

Tgt Ion: 164 Resp: 94700
Ion Ratio Lower Upper
164 100
166 125.2 97.6 146.4
129 108.5 84.5 126.7
131 103.9 77.2 115.8

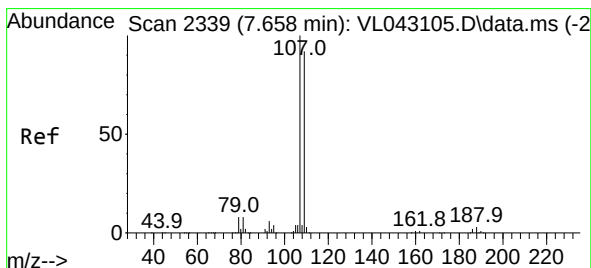
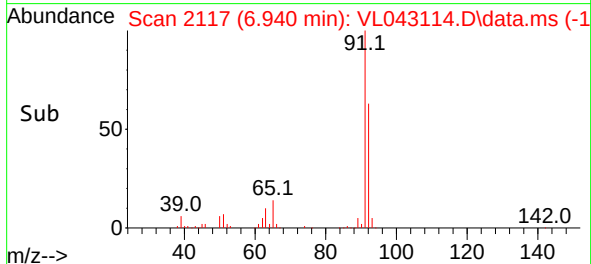
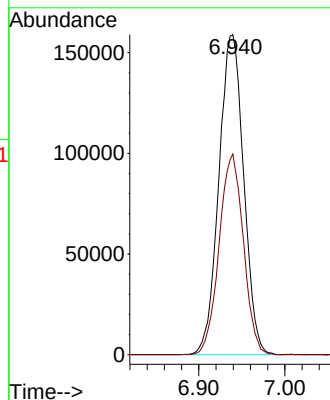
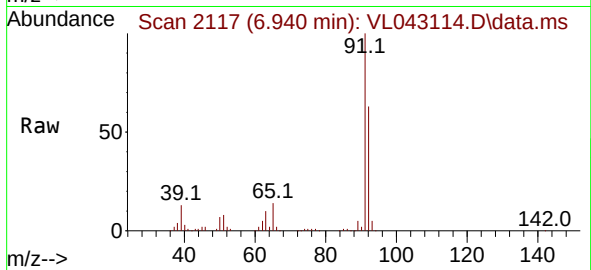




#53
Toluene
Concen: 9.007 ppbv
RT: 6.940 min Scan# 2117
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

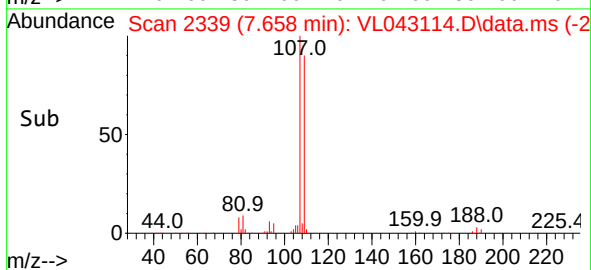
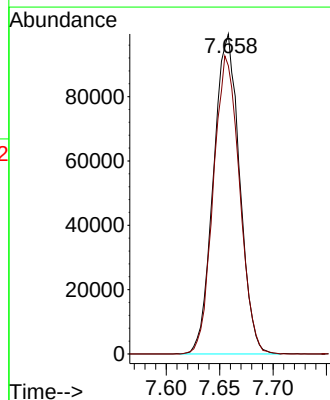
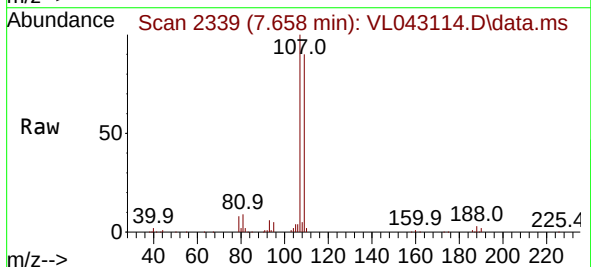
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

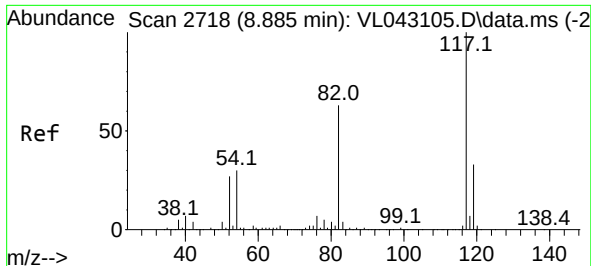
Tgt Ion: 91 Resp: 318262
Ion Ratio Lower Upper
91 100
92 61.3 48.8 73.2



#54
1,2-Dibromoethane
Concen: 9.181 ppbv
RT: 7.658 min Scan# 2339
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

Tgt Ion: 107 Resp: 169023
Ion Ratio Lower Upper
107 100
109 90.1 73.4 110.2

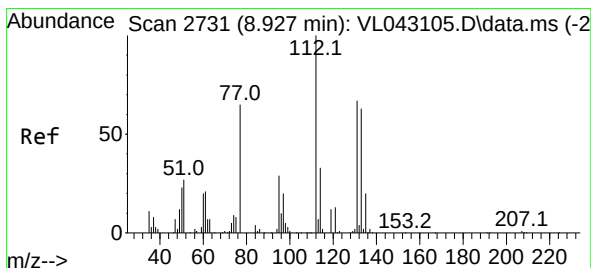
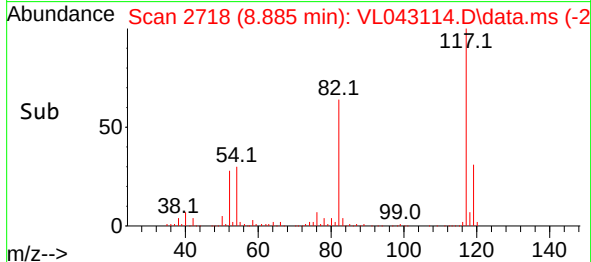
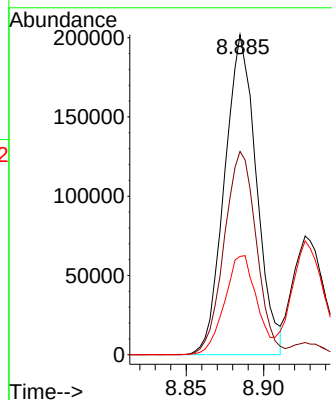
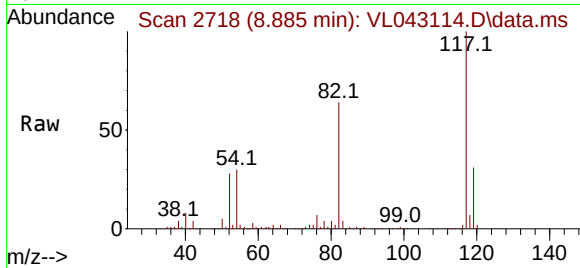




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

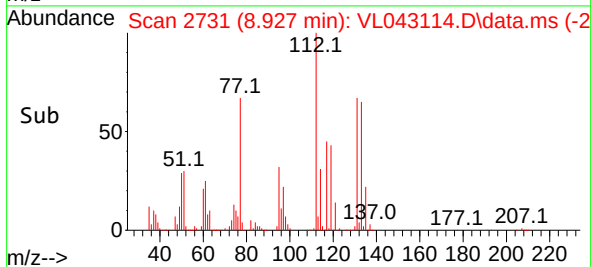
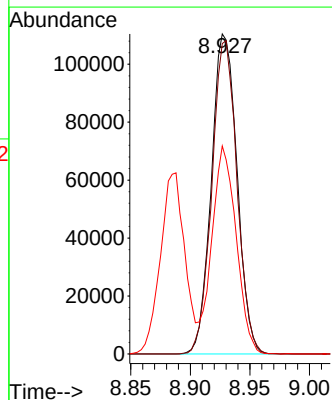
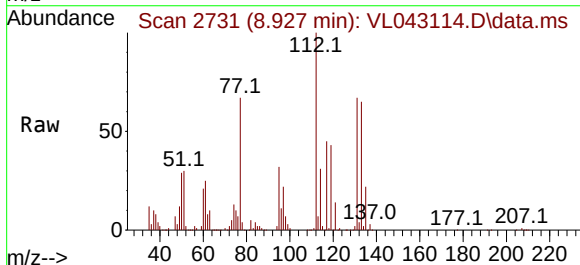
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

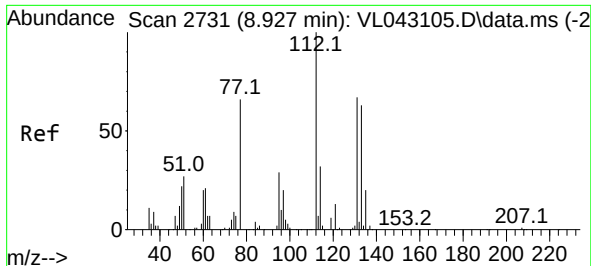
Tgt Ion:117 Resp: 288868
Ion Ratio Lower Upper
117 100
82 67.9 53.8 80.8
119 31.6 25.4 38.0



#56
1,1,1,2-Tetrachloroethane
Concen: 9.073 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

Tgt Ion:131 Resp: 165210
Ion Ratio Lower Upper
131 100
133 96.1 75.7 113.5
119 62.3 50.6 76.0

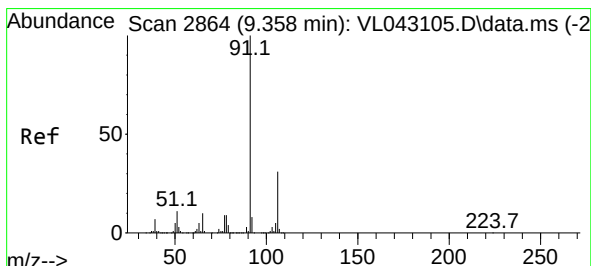
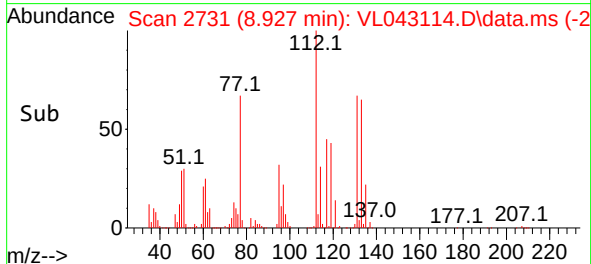
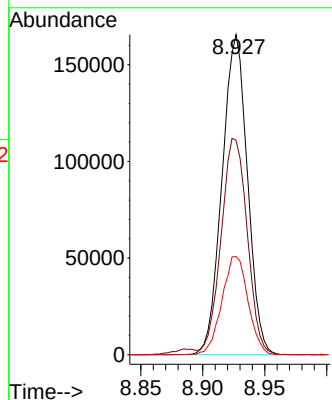
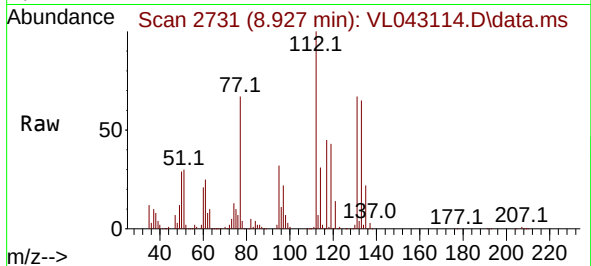




#57
Chlorobenzene
Concen: 8.750 ppbv
RT: 8.927 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

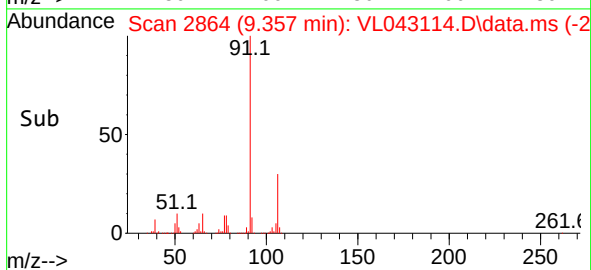
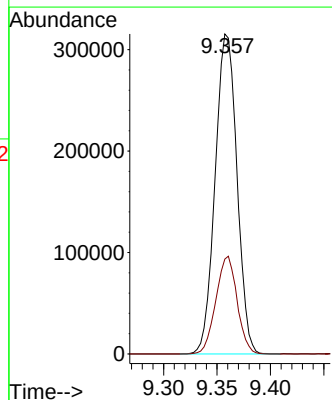
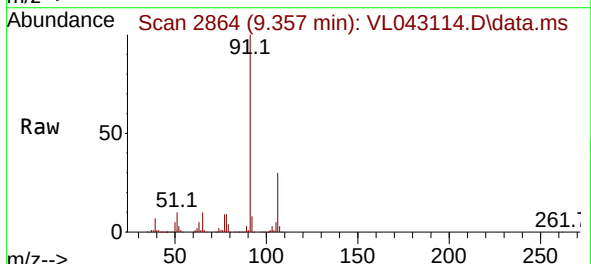
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

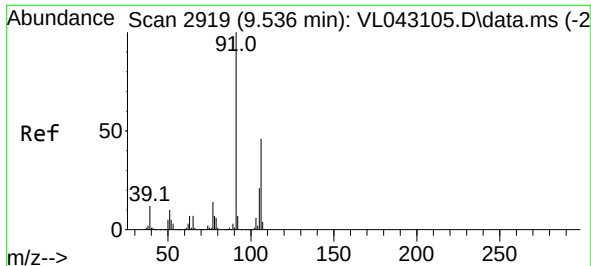
Tgt Ion:112 Resp: 236465
Ion Ratio Lower Upper
112 100
77 66.9 53.3 79.9
114 30.7 29.3 35.8



#58
Ethyl Benzene
Concen: 9.043 ppbv
RT: 9.357 min Scan# 2864
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

Tgt Ion: 91 Resp: 448315
Ion Ratio Lower Upper
91 100
106 29.6 24.8 37.2





#59

m/p-Xylene

Concen: 10.508 ppbv

RT: 9.535 min Scan# 2919

Delta R.T. -0.000 min

Lab File: VL043114.D

Acq: 15 Oct 2025 08:43

Instrument :

MSVOA_L

ClientSampleId :

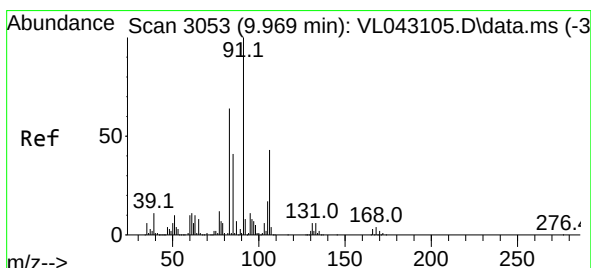
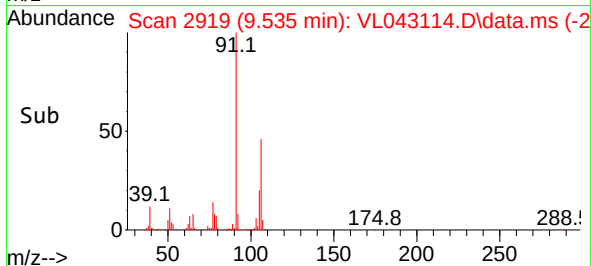
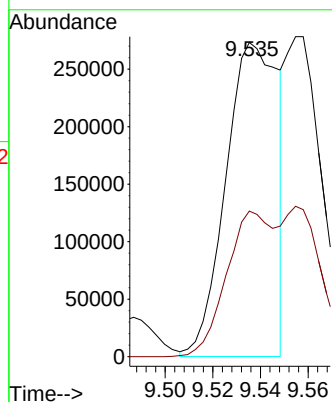
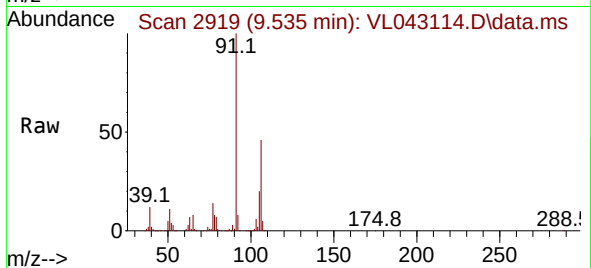
VSTDCCC010

Tgt Ion: 91 Resp: 415529

Ion Ratio Lower Upper

91 100

106 0.0 38.0 57.0#



#60

o-Xylene

Concen: 8.831 ppbv

RT: 9.969 min Scan# 3053

Delta R.T. -0.000 min

Lab File: VL043114.D

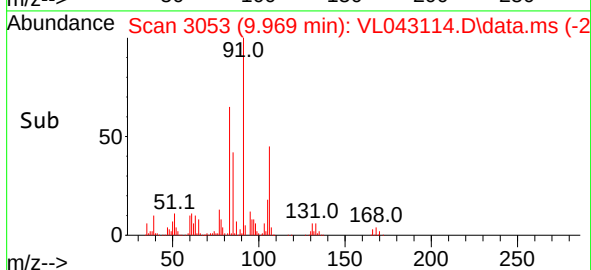
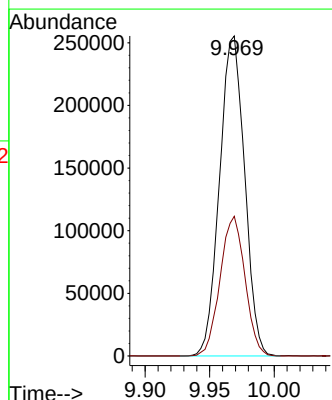
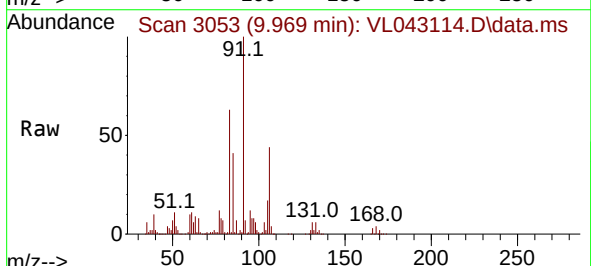
Acq: 15 Oct 2025 08:43

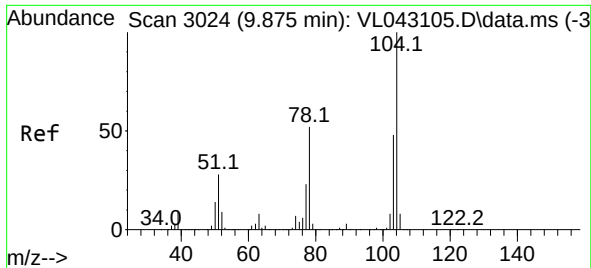
Tgt Ion: 91 Resp: 344891

Ion Ratio Lower Upper

91 100

106 43.3 21.9 65.8

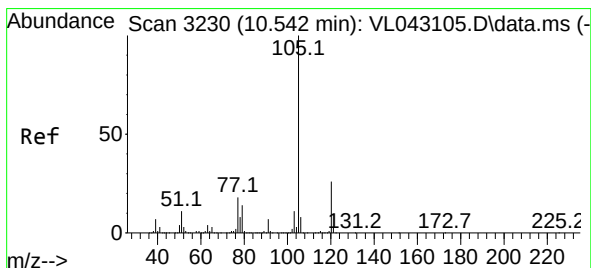
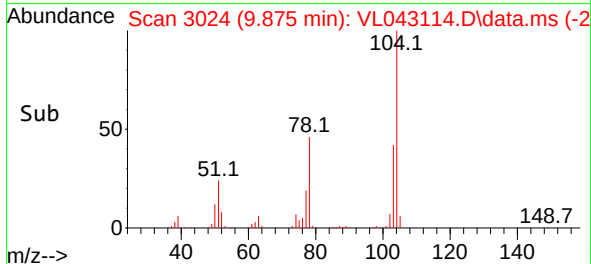
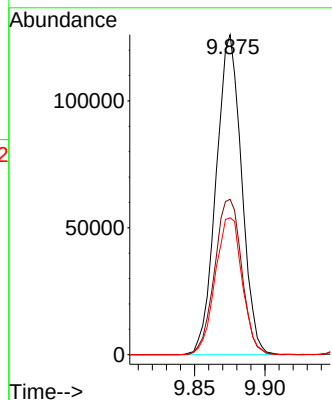
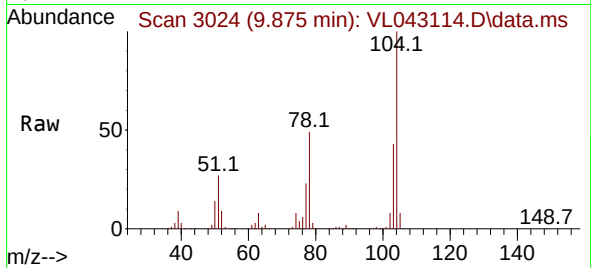




#61
Styrene
Concen: 8.997 ppbv
RT: 9.875 min Scan# 3024
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

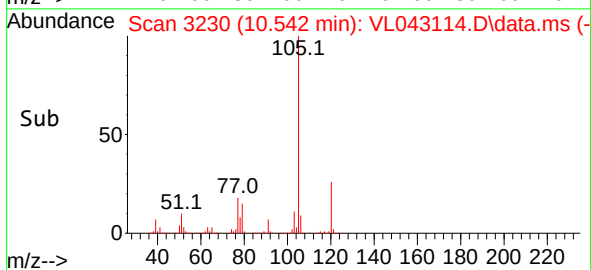
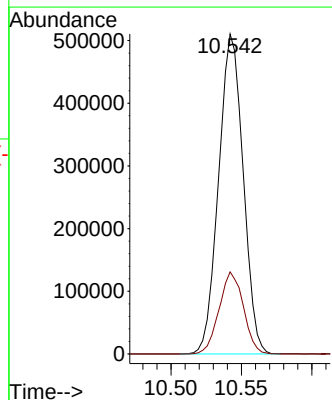
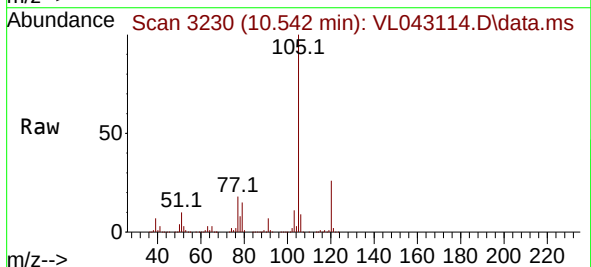
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

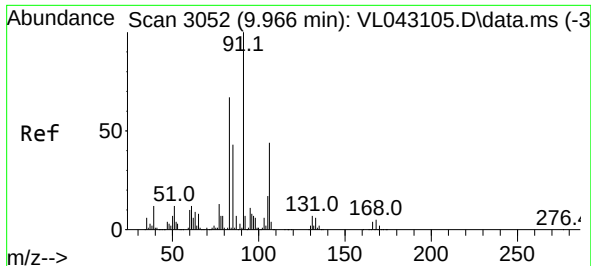
Tgt Ion:104 Resp: 158625
Ion Ratio Lower Upper
104 100
78 51.5 40.2 60.2
103 45.6 36.9 55.3



#62
Isopropylbenzene
Concen: 8.784 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

Tgt Ion:105 Resp: 619844
Ion Ratio Lower Upper
105 100
120 25.4 20.2 30.4





#63

1,1,2,2-Tetrachloroethane

Concen: 8.399 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. -0.000 min

Lab File: VL043114.D

Acq: 15 Oct 2025 08:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

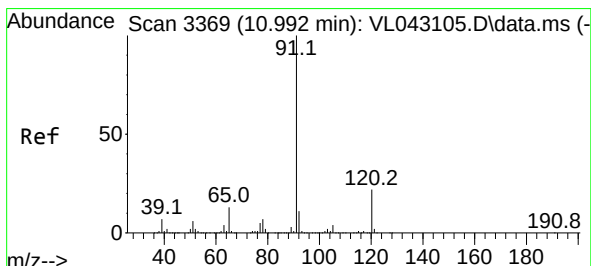
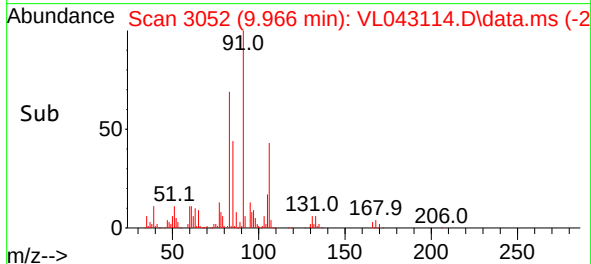
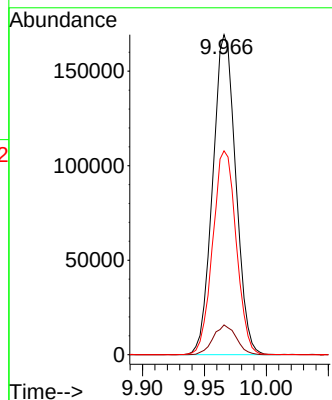
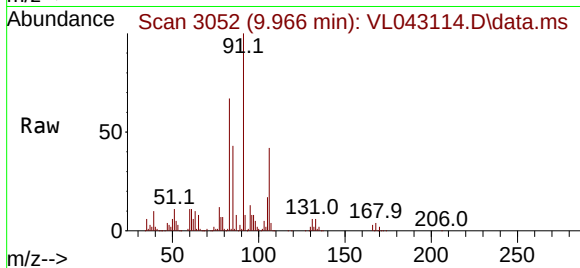
Tgt Ion: 83 Resp: 219643

Ion Ratio Lower Upper

83 100

131 9.3 4.8 14.3

85 64.9 32.0 96.0



#64

n-propylbenzene

Concen: 8.652 ppbv

RT: 10.992 min Scan# 3369

Delta R.T. -0.000 min

Lab File: VL043114.D

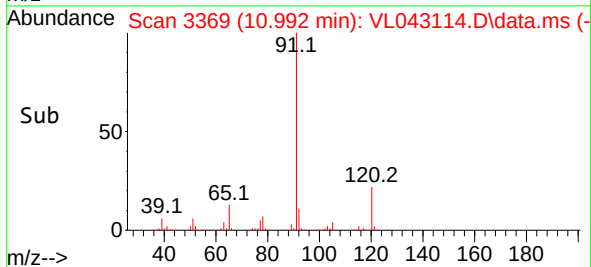
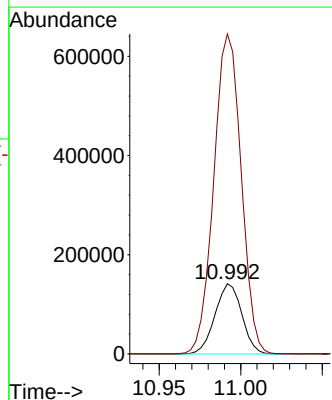
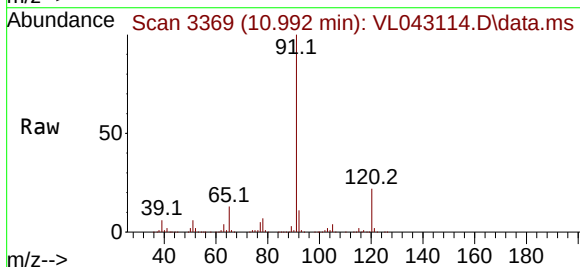
Acq: 15 Oct 2025 08:43

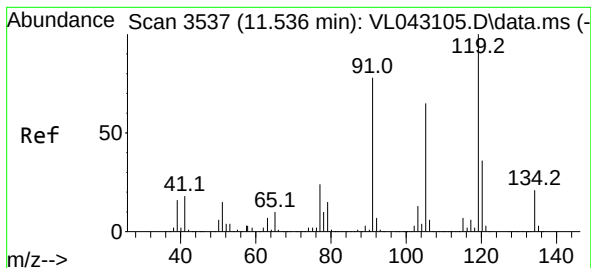
Tgt Ion: 120 Resp: 161656

Ion Ratio Lower Upper

120 100

91 465.5 361.6 542.4

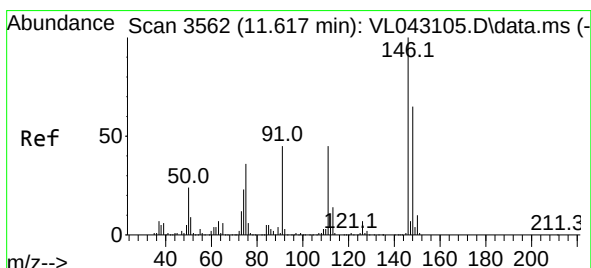
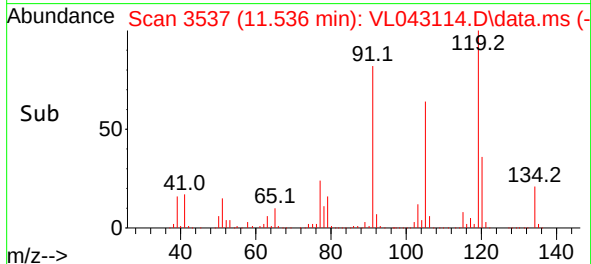
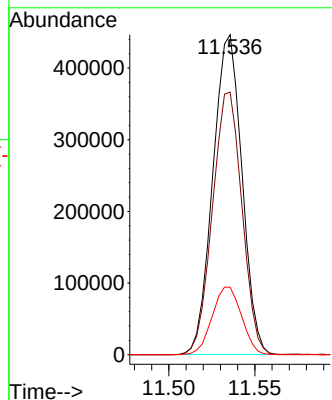
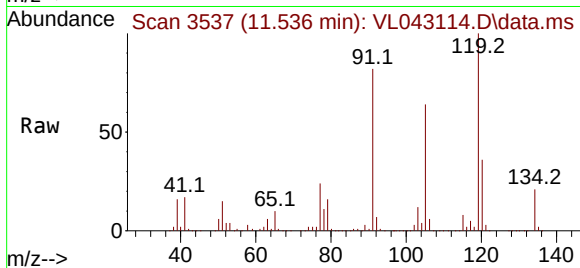




#65
tert-Butylbenzene
Concen: 8.430 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

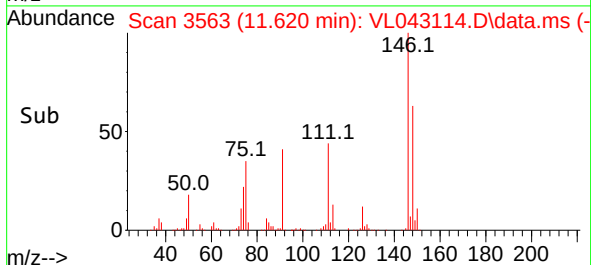
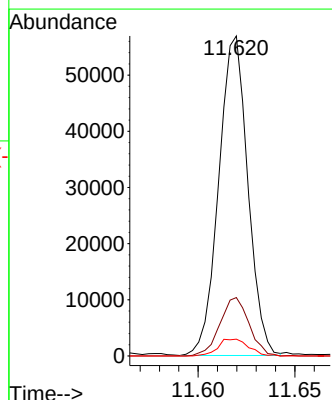
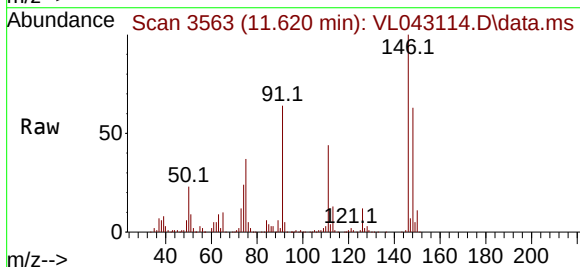
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

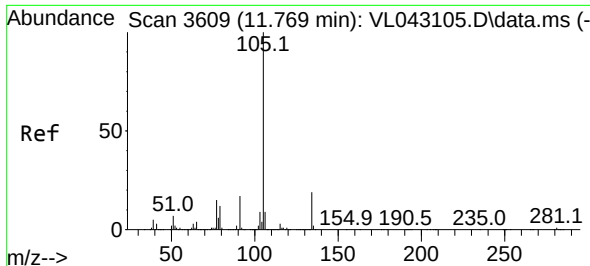
Tgt Ion:119 Resp: 525334
Ion Ratio Lower Upper
119 100
91 83.2 63.4 95.0
134 21.4 17.3 25.9



#66
Benzyl Chloride
Concen: 8.583 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. 0.003 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

Tgt Ion: 91 Resp: 59531
Ion Ratio Lower Upper
91 100
126 18.3 14.6 22.0
128 5.5 4.6 6.8

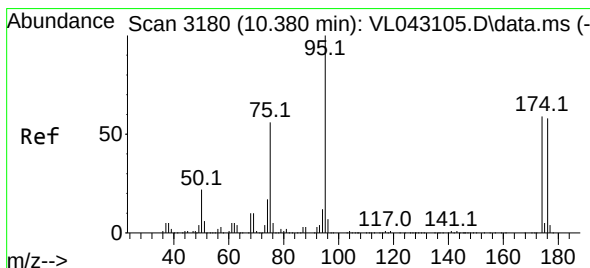
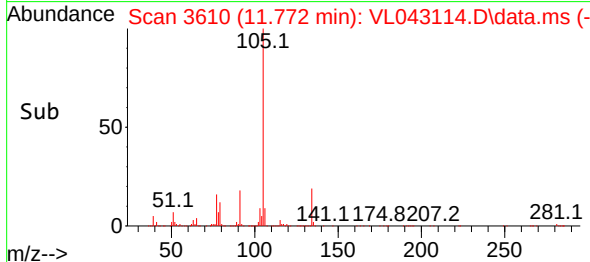
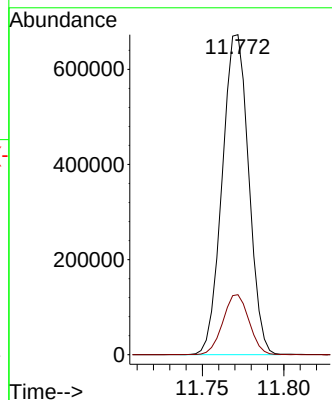
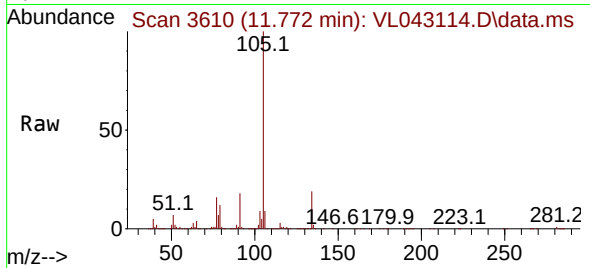




#67
 sec-Butylbenzene
 Concen: 8.600 ppbv
 RT: 11.772 min Scan# 3610
 Delta R.T. 0.003 min
 Lab File: VL043114.D
 Acq: 15 Oct 2025 08:43

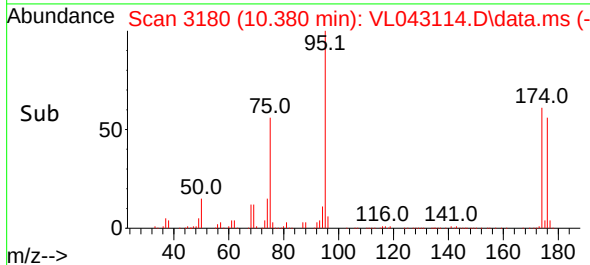
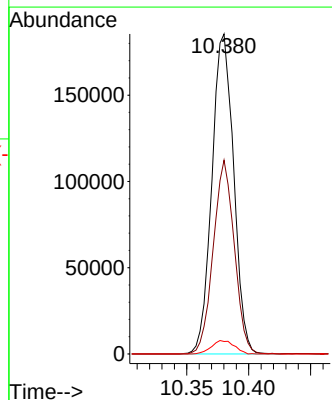
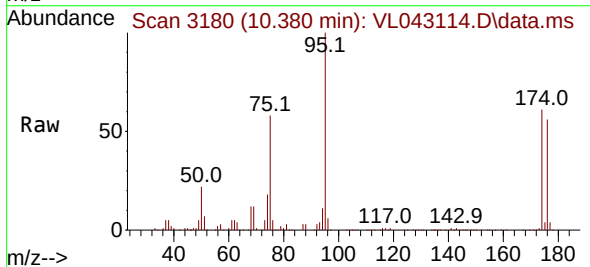
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010

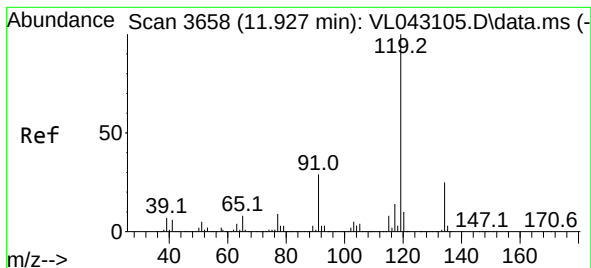
Tgt Ion:105 Resp: 760584
 Ion Ratio Lower Upper
 105 100
 134 18.5 15.5 23.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.118 ppbv
 RT: 10.380 min Scan# 3180
 Delta R.T. -0.000 min
 Lab File: VL043114.D
 Acq: 15 Oct 2025 08:43

Tgt Ion: 95 Resp: 227182
 Ion Ratio Lower Upper
 95 100
 174 58.5 48.3 72.5
 175 4.4 3.8 5.8





#69

p-Isopropyltoluene

Concen: 8.513 ppbv

RT: 11.927 min Scan# 3658

Delta R.T. -0.000 min

Lab File: VL043114.D

Acq: 15 Oct 2025 08:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

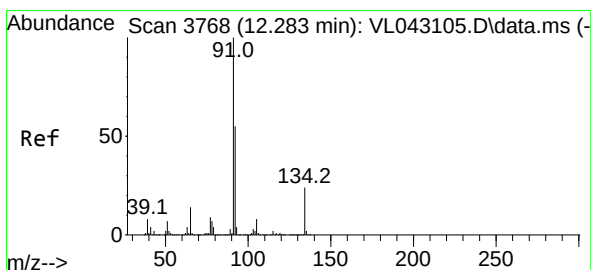
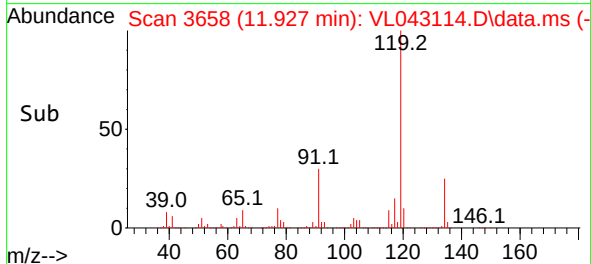
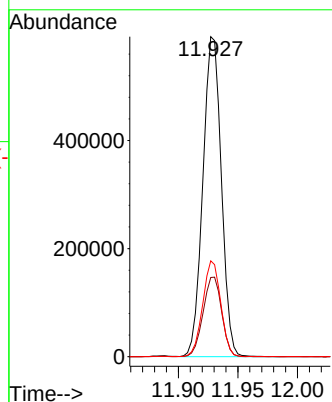
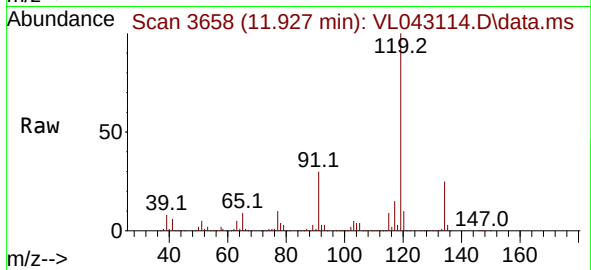
Tgt Ion:119 Resp: 639817

Ion Ratio Lower Upper

119 100

134 25.2 20.3 30.5

91 29.3 22.6 33.8



#70

n-Butylbenzene

Concen: 8.825 ppbv

RT: 12.283 min Scan# 3768

Delta R.T. -0.000 min

Lab File: VL043114.D

Acq: 15 Oct 2025 08:43

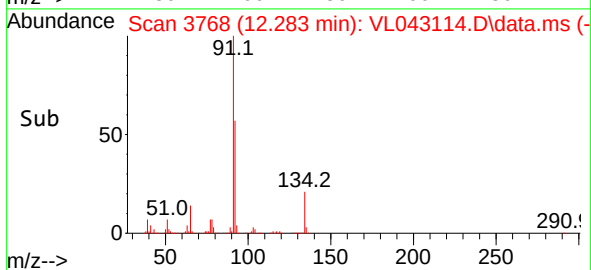
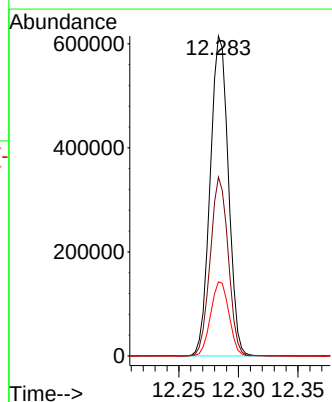
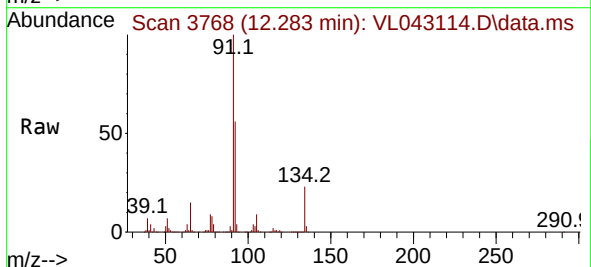
Tgt Ion: 91 Resp: 653616

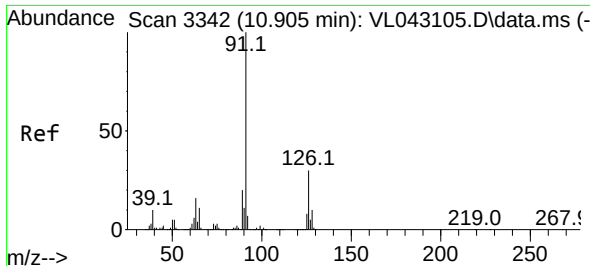
Ion Ratio Lower Upper

91 100

92 55.3 44.5 66.7

134 23.3 19.3 28.9

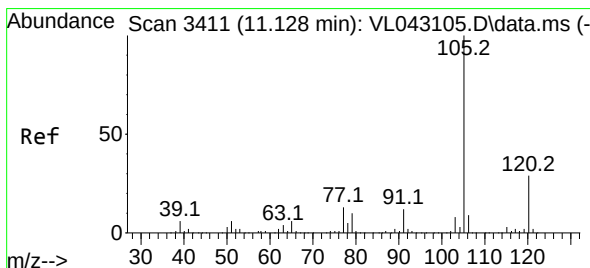
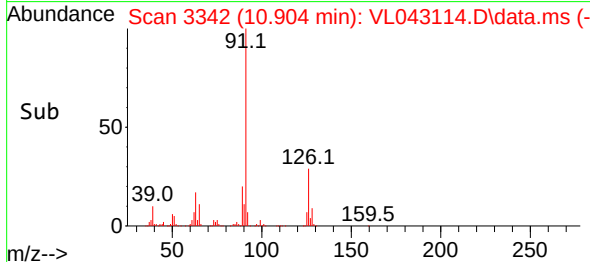
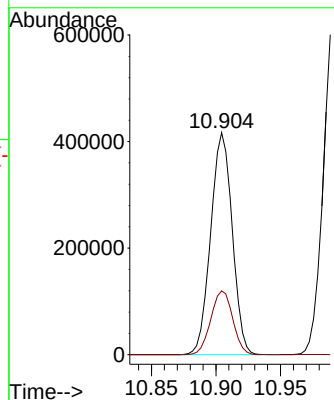
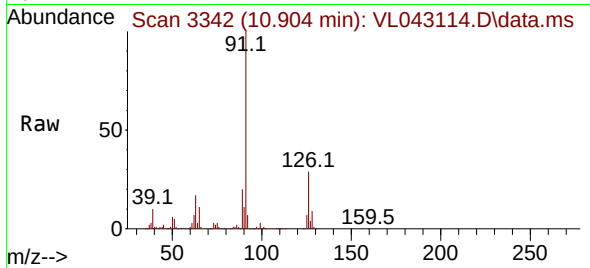




#71
2-Chlorotoluene
Concen: 8.976 ppbv
RT: 10.904 min Scan# 311
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

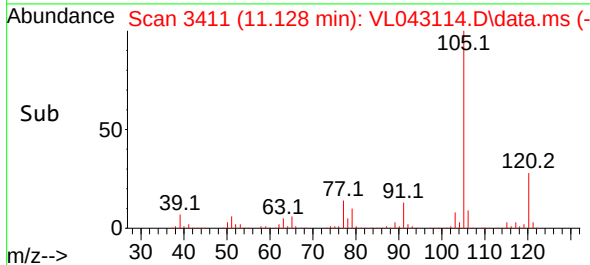
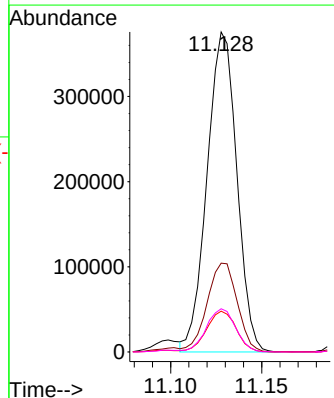
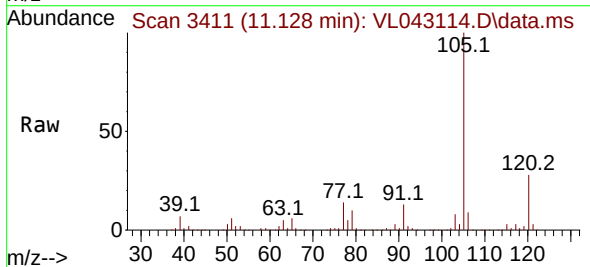
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

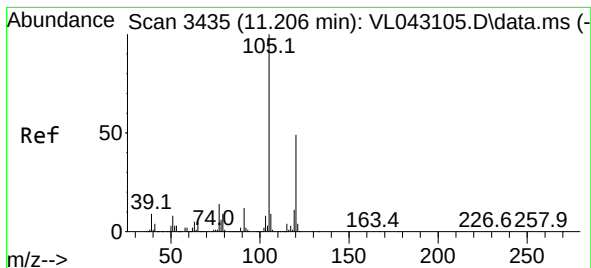
Tgt Ion: 91 Resp: 483141
Ion Ratio Lower Upper
91 100
126 29.2 12.0 48.0



#72
4-Ethyltoluene
Concen: 8.896 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

Tgt Ion: 105 Resp: 427201
Ion Ratio Lower Upper
105 100
120 29.2 24.2 36.4
91 13.1 10.0 15.0
77 13.8 10.7 16.1





#73

1,3,5-Trimethylbenzene

Concen: 8.945 ppbv

RT: 11.205 min Scan# 3435

Delta R.T. -0.000 min

Lab File: VL043114.D

Acq: 15 Oct 2025 08:43

Instrument :

MSVOA_L

ClientSampleId :

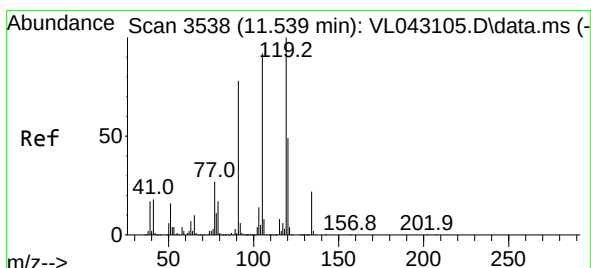
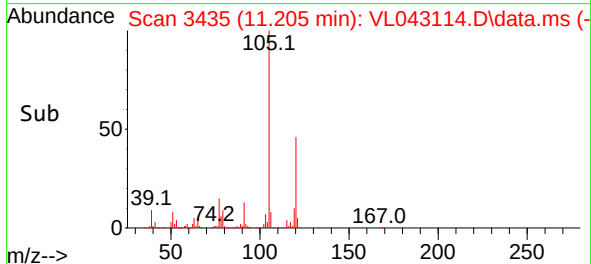
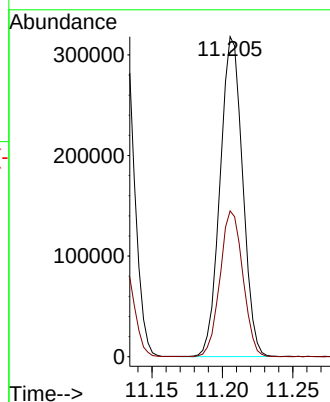
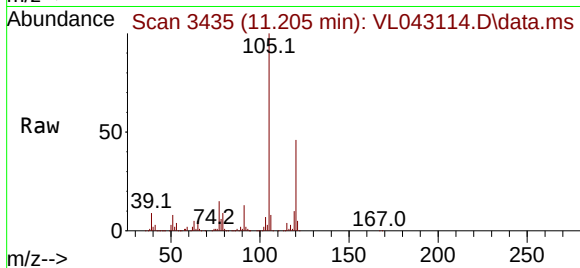
VSTDCCC010

Tgt Ion:105 Resp: 354264

Ion Ratio Lower Upper

105 100

120 45.6 39.0 58.6



#74

1,2,4-Trimethylbenzene

Concen: 8.537 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. -0.000 min

Lab File: VL043114.D

Acq: 15 Oct 2025 08:43

Tgt Ion:105 Resp: 378357

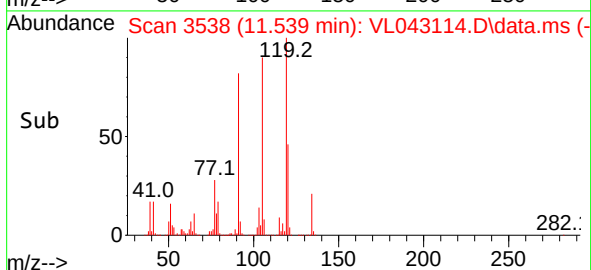
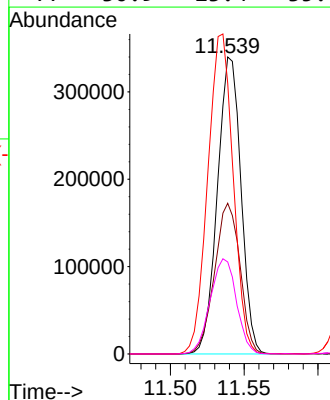
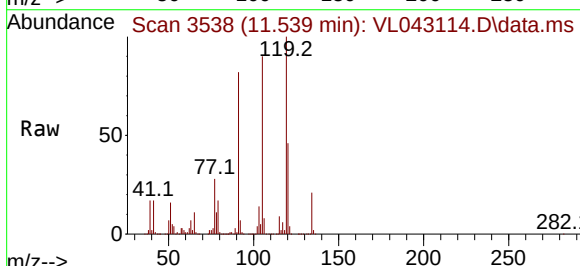
Ion Ratio Lower Upper

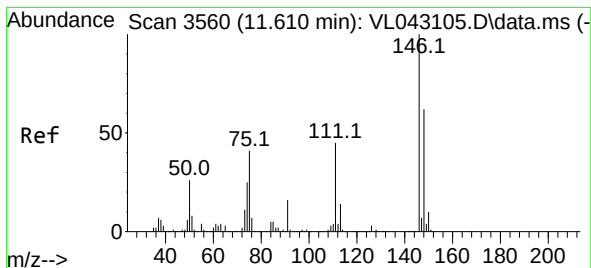
105 100

120 50.7 42.8 64.2

91 91.0 68.3 102.5

77 30.9 23.4 35.0





#75

1,3-Dichlorobenzene

Concen: 8.587 ppbv

RT: 11.610 min Scan# 3560

Delta R.T. -0.000 min

Lab File: VL043114.D

Acq: 15 Oct 2025 08:43

Instrument :

MSVOA_1

ClientSampleId :

VSTDCCC010

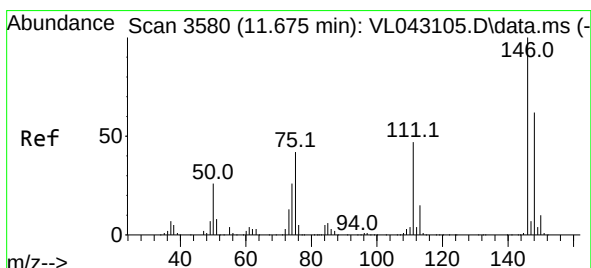
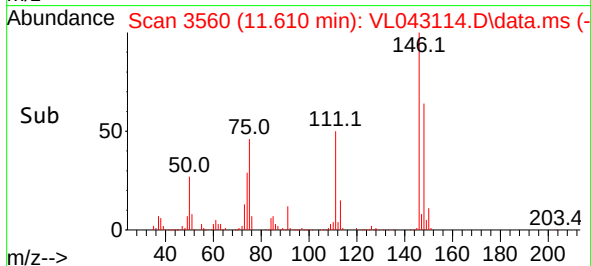
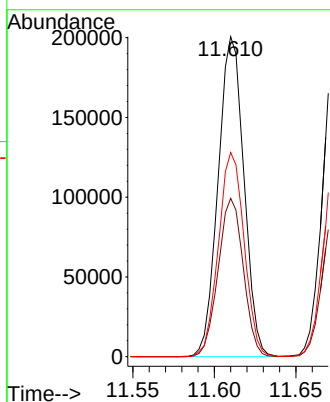
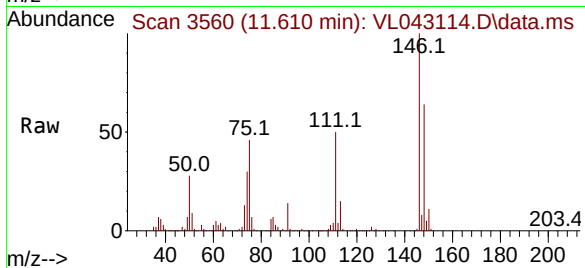
Tgt Ion:146 Resp: 220714

Ion Ratio Lower Upper

146 100

111 48.2 23.3 69.9

148 63.5 31.6 95.0



#76

1,4-Dichlorobenzene

Concen: 8.750 ppbv

RT: 11.675 min Scan# 3580

Delta R.T. -0.000 min

Lab File: VL043114.D

Acq: 15 Oct 2025 08:43

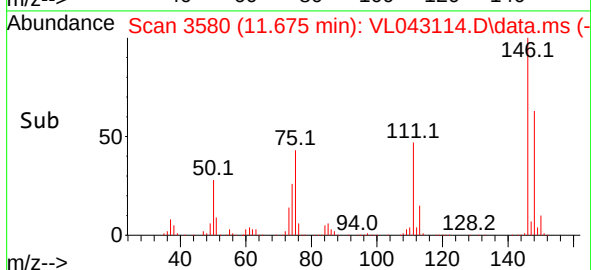
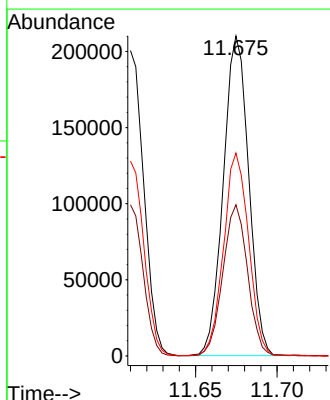
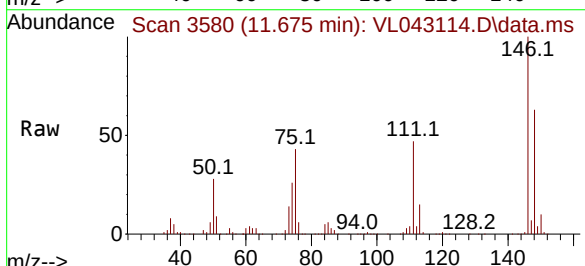
Tgt Ion:146 Resp: 226777

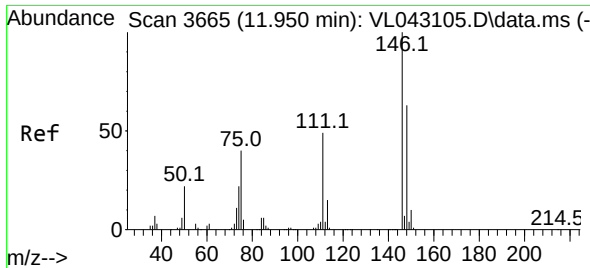
Ion Ratio Lower Upper

146 100

111 46.4 22.4 67.0

148 63.0 31.6 94.7

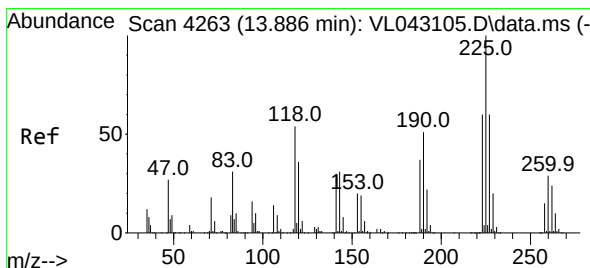
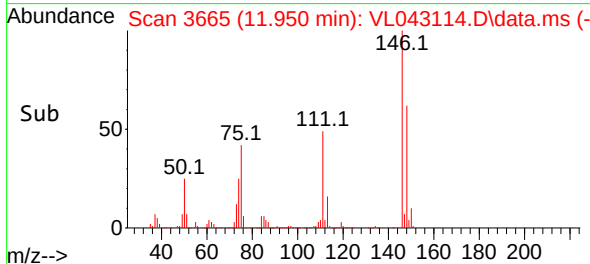
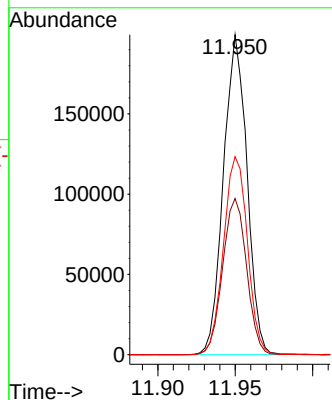
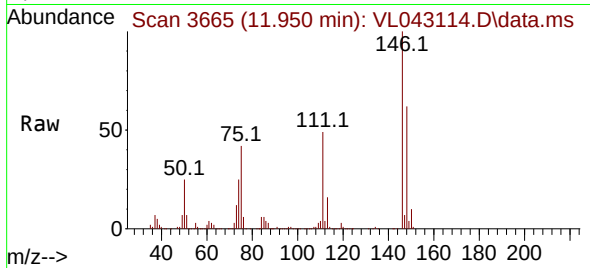




#77
1,2-Dichlorobenzene
Concen: 8.460 ppbv
RT: 11.950 min Scan# 3665
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

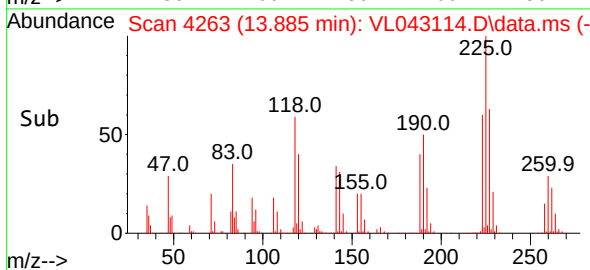
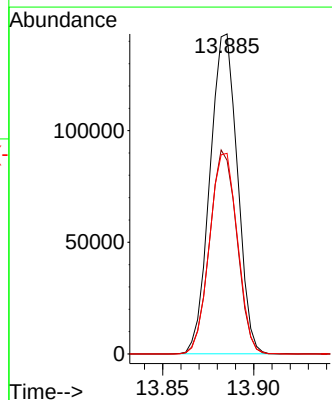
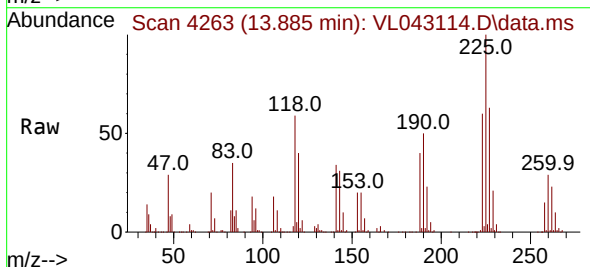
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

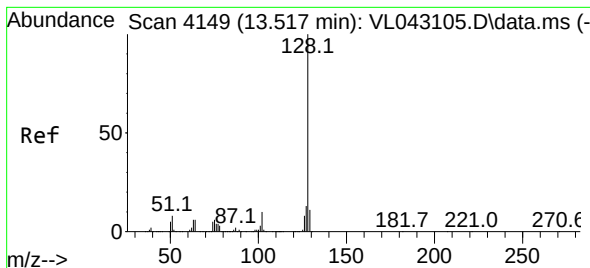
Tgt Ion:146 Resp: 210381
Ion Ratio Lower Upper
146 100
111 49.8 24.0 72.0
148 63.3 31.1 93.3



#78
Hexachloro-1,3-Butadiene
Concen: 7.784 ppbv
RT: 13.885 min Scan# 4263
Delta R.T. -0.000 min
Lab File: VL043114.D
Acq: 15 Oct 2025 08:43

Tgt Ion:225 Resp: 149878
Ion Ratio Lower Upper
225 100
223 63.3 50.2 75.4
227 63.9 49.6 74.4





#79

Naphthalene

Concen: 9.238 ppbv

RT: 13.516 min Scan# 4149

Delta R.T. -0.000 min

Lab File: VL043114.D

Acq: 15 Oct 2025 08:43

Instrument :

MSVOA_1

ClientSampleId :

VSTDCCC010

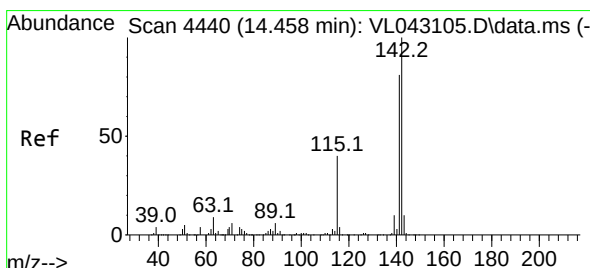
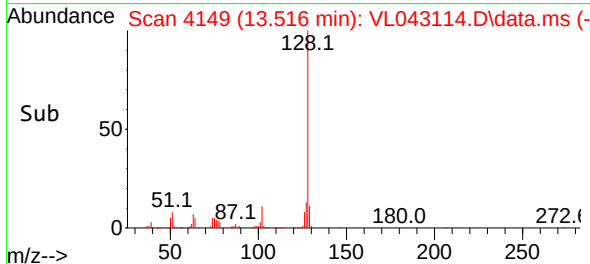
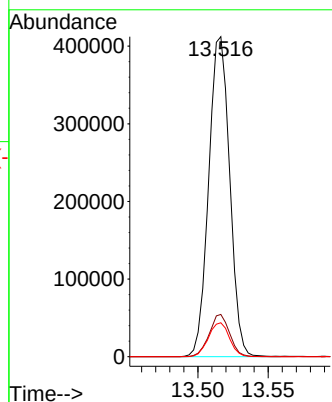
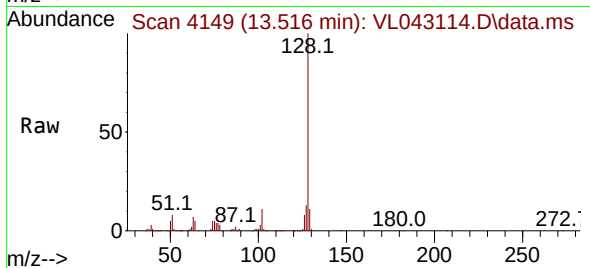
Tgt Ion:128 Resp: 427928

Ion Ratio Lower Upper

128 100

127 13.2 10.5 15.7

129 10.6 9.1 13.7



#80

Naphthalene,2-methyl-

Concen: 10.225 ppbv

RT: 14.458 min Scan# 4440

Delta R.T. -0.000 min

Lab File: VL043114.D

Acq: 15 Oct 2025 08:43

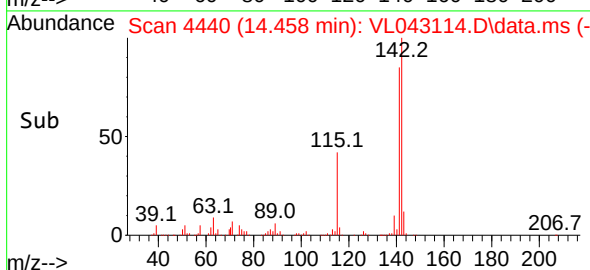
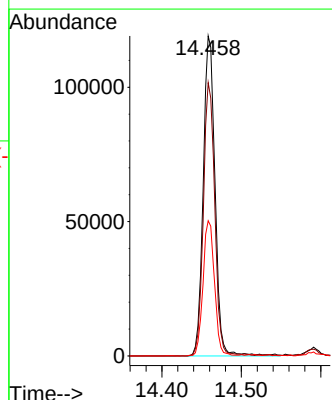
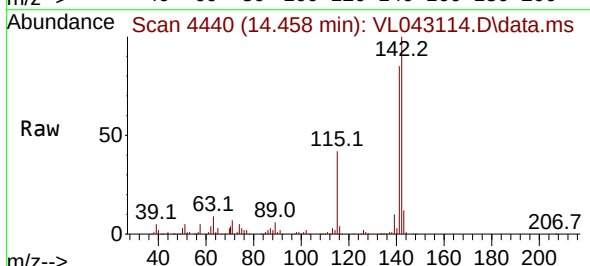
Tgt Ion:142 Resp: 123398

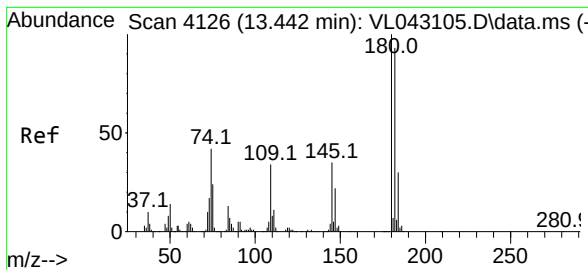
Ion Ratio Lower Upper

142 100

141 83.4 64.6 97.0

115 42.0 30.2 45.4

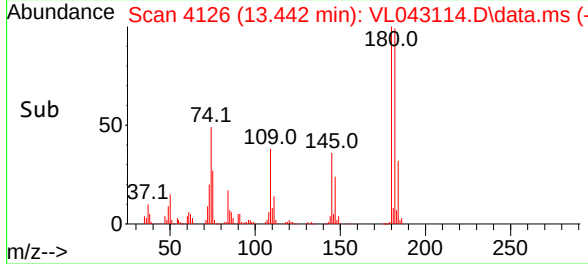
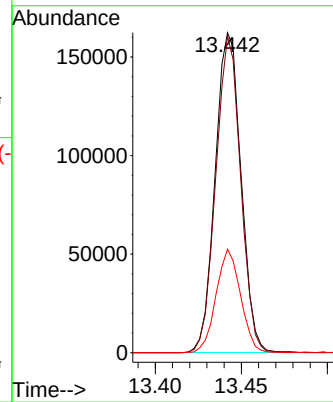
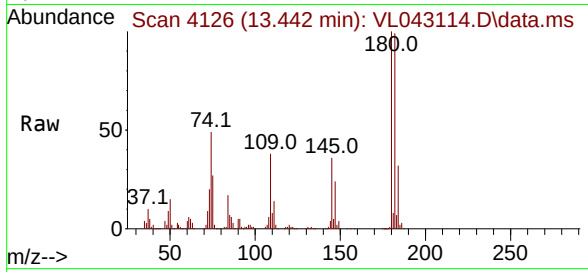




#81
 1,2,4-Trichlorobenzene
 Concen: 8.789 ppbv
 RT: 13.442 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL043114.D
 Acq: 15 Oct 2025 08:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tgt Ion:180 Resp: 168975
 Ion Ratio Lower Upper
 180 100
 182 95.6 75.5 113.3
 184 30.7 23.9 35.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101525\
 Data File : VL043116.D
 Acq On : 15 Oct 2025 10:15
 Operator : SY/MD
 Sample : VL1015ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1015ABS01

Quant Time: Oct 16 01:14:54 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

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

QLast Update : Wed Oct 15 02:12:58 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	93836	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	302461	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	271209	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 217166 10.302 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 103.000%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	131416	9.851	ppbv	99
3) Chlorodifluoromethane	1.476	51	131982	9.144	ppbv	99
4) Chloromethane	1.534	50	47577	9.003	ppbv	99
5) Vinyl Chloride	1.583	62	47002	9.068	ppbv	98
6) Bromomethane	1.670	94	27400	9.640	ppbv	100
7) Chloroethane	1.706	64	19366	9.138	ppbv	97
8) Dichlorotetrafluoroethane	1.557	85	105053	9.743	ppbv	97
9) Propene	1.486	41	53024	8.283	ppbv	99
10) Heptane	4.981	43	151642	8.228	ppbv	99
11) Trichlorofluoromethane	1.881	101	138197	10.591	ppbv	95
12) 1,1,2-Trichlorotrifluo...	2.143	101	105541	10.046	ppbv	99
13) Ethanol	1.722	45	17262	7.290	ppbv	95
14) Bromoethene	1.784	108	37841	9.696	ppbv	98
15) Acetone	1.835	43	109263	8.639	ppbv	98
16) 1,3-Butadiene	1.612	39	53479	8.872	ppbv	100
17) tert-Butyl alcohol	2.039	59	166341	9.581	ppbv	98
18) 1,1-Dichloroethene	2.036	96	46186	10.084	ppbv	95
19) Isopropyl Alcohol	1.887	45	69684	8.846	ppbv	99
20) Methylene Chloride	2.065	84	42203	8.442	ppbv	93
21) Allyl Chloride	2.098	41	86785	9.312	ppbv	93
22) trans-1,2-Dichloroethene	2.344	96	54715	9.994	ppbv	95
23) Vinyl Acetate	2.463	43	168496	9.095	ppbv	99
24) 1,1-Dichloroethane	2.411	63	105823	10.005	ppbv	99
25) Ethyl Acetate	2.835	43	275684	8.790	ppbv	100
26) Hexane	2.829	57	126834	8.776	ppbv	98
27) Carbon Disulfide	2.153	76	132560	10.011	ppbv	98
28) Methyl tert-Butyl Ether	2.441	73	61275	9.319	ppbv	97
29) Chloroform	2.852	83	201183	9.607	ppbv	97
30) Cyclohexane	3.861	84	111570	8.845	ppbv	95
31) cis-1,2-Dichloroethene	2.722	61	132435	9.596	ppbv	96
32) 1,1,1-Trichloroethane	3.373	97	212419	9.741	ppbv	100
34) 2-Butanone	2.557	43	180097	8.858	ppbv	98
35) Carbon Tetrachloride	3.768	117	211777	9.739	ppbv	93
36) Benzene	3.658	78	266465	9.354	ppbv	100
37) 1,2-Dichloroethane	3.221	62	160950	9.808	ppbv	98
38) Trichloroethene	4.551	130	103087	8.665	ppbv	97
39) 1,2-Dichloropropane	4.315	63	92588	8.890	ppbv	96
40) 1,4-Dioxane	4.583	88	43167	9.263	ppbv #	94
41) Tetrahydrofuran	3.056	42	95919	8.435	ppbv	96
42) Bromodichloromethane	4.493	83	224949	9.904	ppbv	100
43) Methyl Methacrylate	4.881	69	130372	9.011	ppbv	98
44) 2,2,4-Trimethylpentane	4.645	57	423028	8.802	ppbv	99
45) t-1,3-Dichloropropene	6.418	75	136672	9.413	ppbv	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101525\
 Data File : VL043116.D
 Acq On : 15 Oct 2025 10:15
 Operator : SY/MD
 Sample : VL1015ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1015ABS01

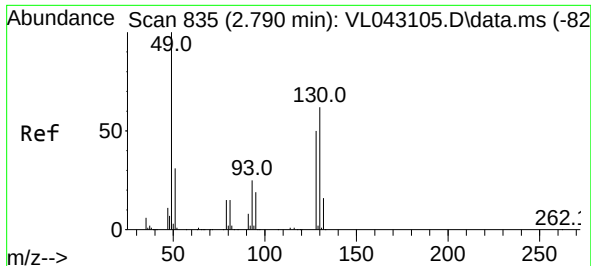
Quant Time: Oct 16 01:14:54 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 02:12:58 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.603	75	161245	9.296	ppbv	95
47) 1,1,2-Trichloroethane	6.583	97	102863	9.146	ppbv	96
48) Dibromochloromethane	7.389	129	180998	9.626	ppbv	99
49) Bromoform	9.487	173	146957	9.615	ppbv	99
50) 4-Methyl-2-Pentanone	5.748	43	243541	8.680	ppbv	99
51) 2-Hexanone	7.438	43	186283	8.851	ppbv	99
52) Tetrachloroethene	8.228	164	89410	8.704	ppbv	88
53) Toluene	6.936	91	306729	9.072	ppbv	100
54) 1,2-Dibromoethane	7.655	107	162517	9.226	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.927	131	161028	9.419	ppbv	99
57) Chlorobenzene	8.924	112	226970	8.946	ppbv	98
58) Ethyl Benzene	9.357	91	422762	9.083	ppbv	99
59) m/p-Xylene	9.535	91	360106	9.700	ppbv #	29
60) o-Xylene	9.966	91	332591	9.071	ppbv	99
61) Styrene	9.875	104	151632	9.161	ppbv	98
62) Isopropylbenzene	10.542	105	598060	9.027	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.966	83	211101	8.598	ppbv	100
64) n-propylbenzene	10.992	120	154542	8.810	ppbv	94
65) tert-Butylbenzene	11.532	119	506098	8.650	ppbv	96
66) Benzyl Chloride	11.616	91	56595	8.691	ppbv	98
67) sec-Butylbenzene	11.772	105	733683	8.836	ppbv	98
69) p-Isopropyltoluene	11.927	119	617578	8.752	ppbv	98
70) n-Butylbenzene	12.283	91	635054	9.133	ppbv	99
71) 2-Chlorotoluene	10.904	91	464145	9.185	ppbv	98
72) 4-Ethyltoluene	11.128	105	408784	9.067	ppbv	99
73) 1,3,5-Trimethylbenzene	11.205	105	343757	9.245	ppbv	94
74) 1,2,4-Trimethylbenzene	11.539	105	364645	8.764	ppbv	99
75) 1,3-Dichlorobenzene	11.610	146	213175	8.833	ppbv	99
76) 1,4-Dichlorobenzene	11.675	146	215187	8.843	ppbv	98
77) 1,2-Dichlorobenzene	11.950	146	200329	8.581	ppbv	98
78) Hexachloro-1,3-Butadiene	13.882	225	143609	7.945	ppbv	98
79) Naphthalene	13.516	128	410097	9.429	ppbv	98
80) Naphthalene,2-methyl-	14.458	142	117693	10.387	ppbv	95
81) 1,2,4-Trichlorobenzene	13.442	180	162229	8.987	ppbv	97

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

Instrument :
MSVOA_L
ClientSampleId :
VL1015ABS01

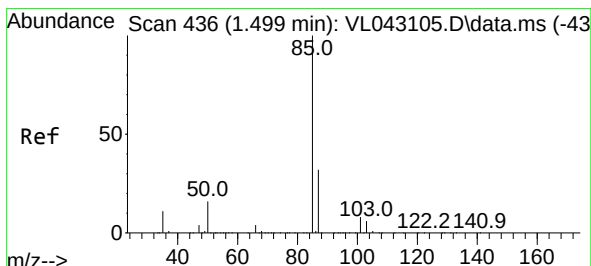
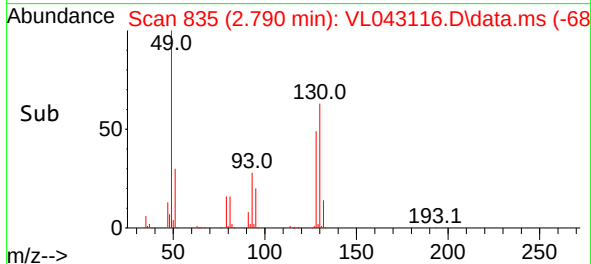
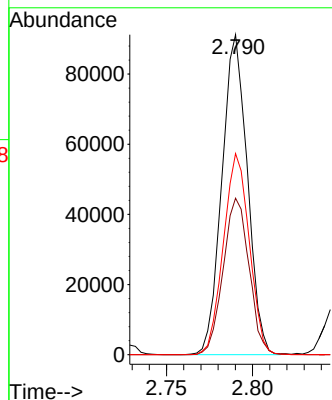
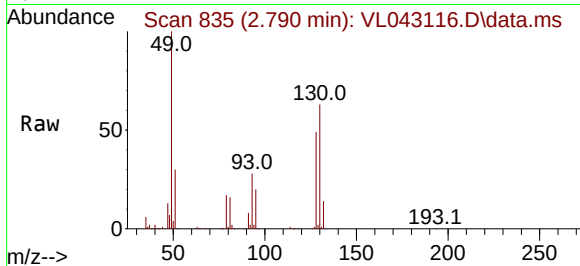
[illegible]



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 835
Delta R.T. 0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

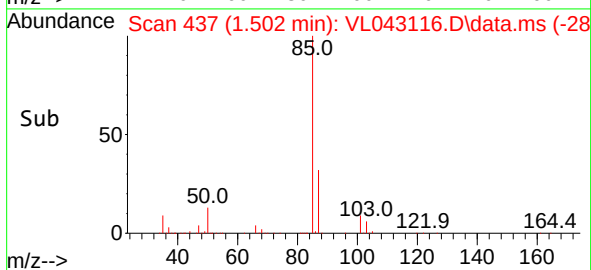
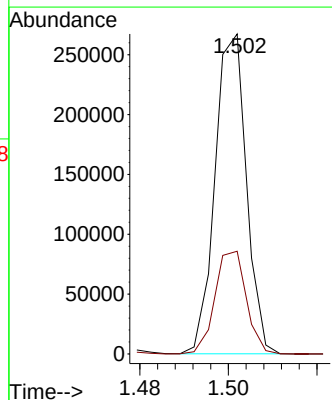
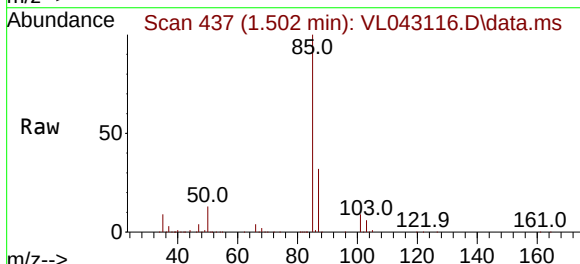
Instrument :
MSVOA_L
ClientSampleId :
VL1015ABS01

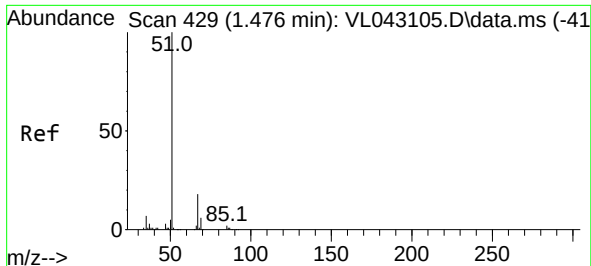
Tgt Ion: 49 Resp: 93836
Ion Ratio Lower Upper
49 100
128 49.7 24.4 73.4
130 63.8 31.0 93.0



#2
Dichlorodifluoromethane
Concen: 9.851 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

Tgt Ion: 85 Resp: 131416
Ion Ratio Lower Upper
85 100
87 32.1 25.3 37.9

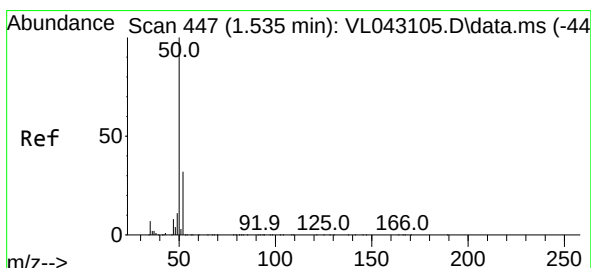
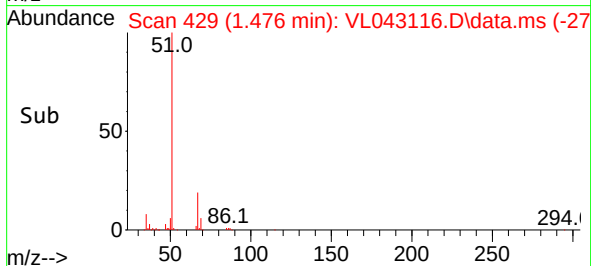
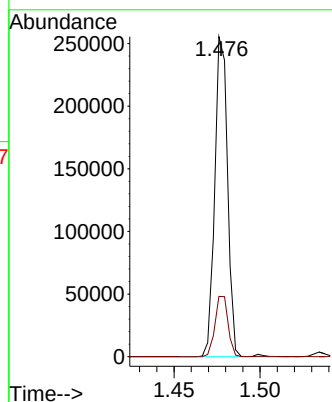
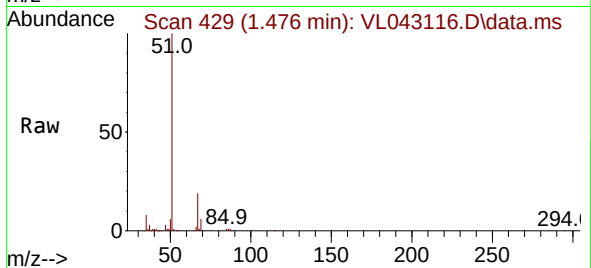




#3
Chlorodifluoromethane
Concen: 9.144 ppbv
RT: 1.476 min Scan# 429
Delta R.T. -0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

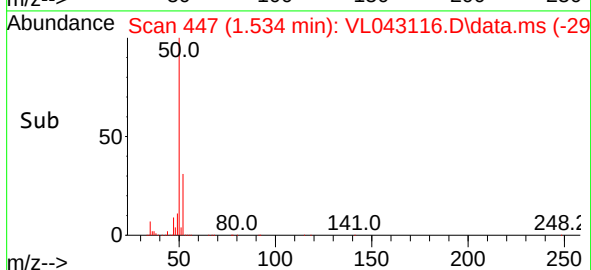
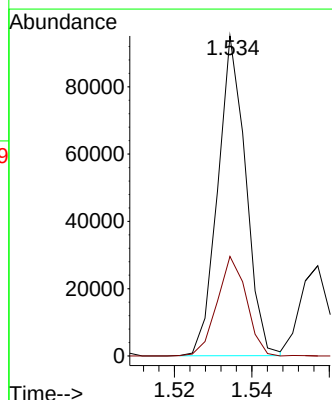
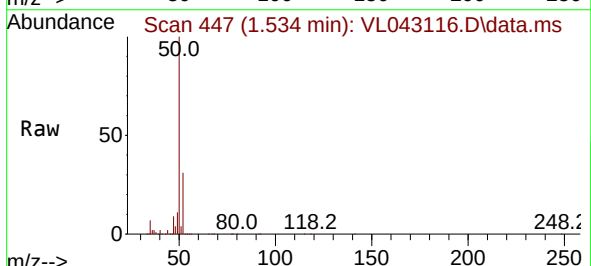
Instrument :
MSVOA_L
ClientSampleId :
VL1015ABS01

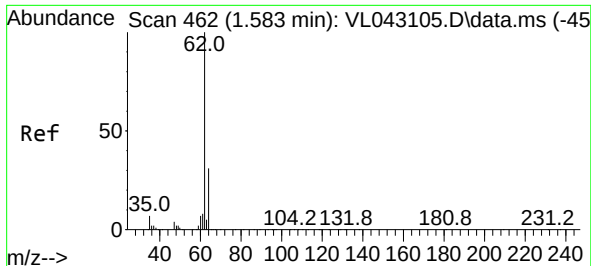
Tgt Ion: 51 Resp: 131982
Ion Ratio Lower Upper
51 100
67 19.4 15.1 22.7



#4
Chloromethane
Concen: 9.003 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

Tgt Ion: 50 Resp: 47577
Ion Ratio Lower Upper
50 100
52 31.1 25.2 37.8

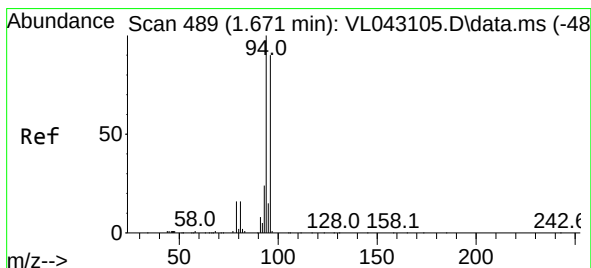
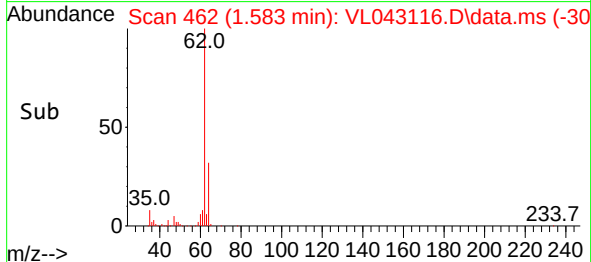
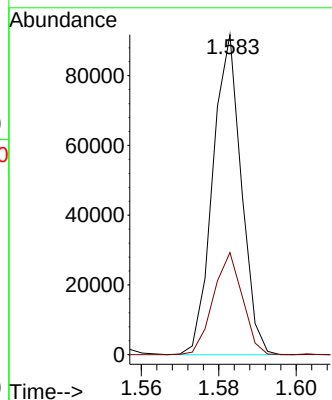
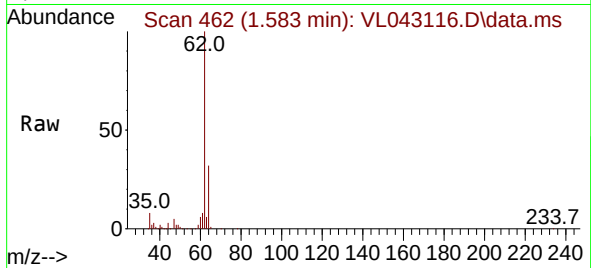




#5
 Vinyl Chloride
 Concen: 9.068 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. -0.000 min
 Lab File: VL043116.D
 Acq: 15 Oct 2025 10:15

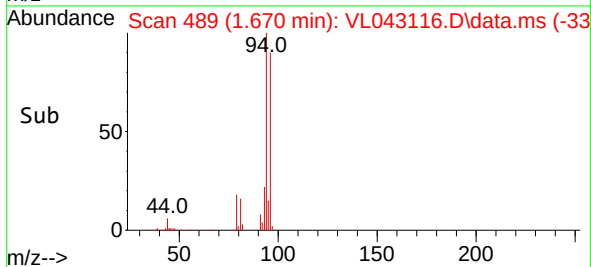
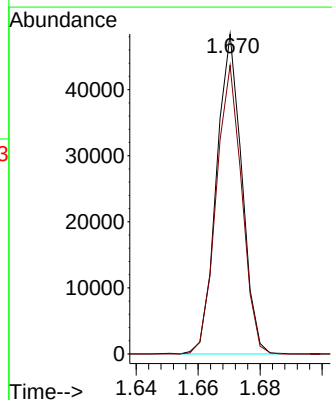
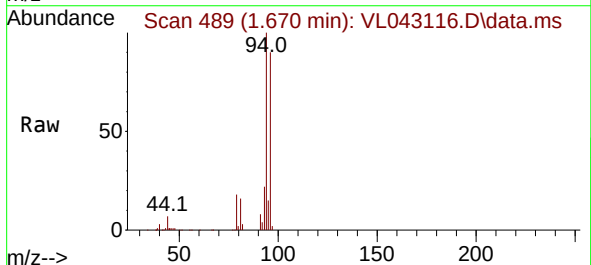
Instrument :
 MSVOA_1
 ClientSampleId :
 VL1015ABS01

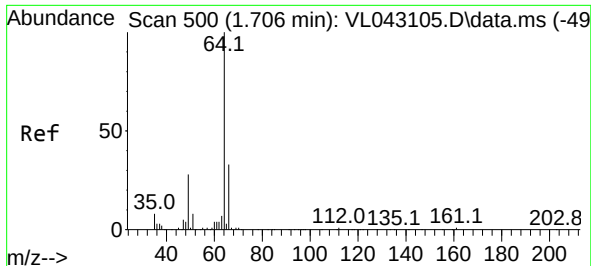
Tgt Ion: 62 Resp: 47002
 Ion Ratio Lower Upper
 62 100
 64 31.8 24.6 36.8



#6
 Bromomethane
 Concen: 9.640 ppbv
 RT: 1.670 min Scan# 489
 Delta R.T. -0.000 min
 Lab File: VL043116.D
 Acq: 15 Oct 2025 10:15

Tgt Ion: 94 Resp: 27400
 Ion Ratio Lower Upper
 94 100
 96 90.2 72.2 108.4

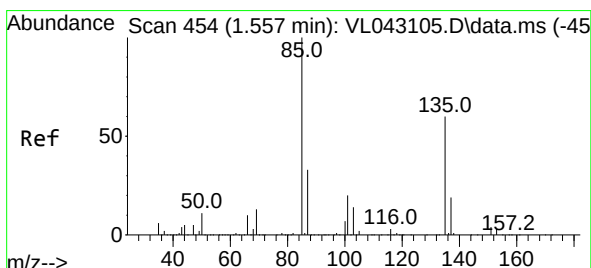
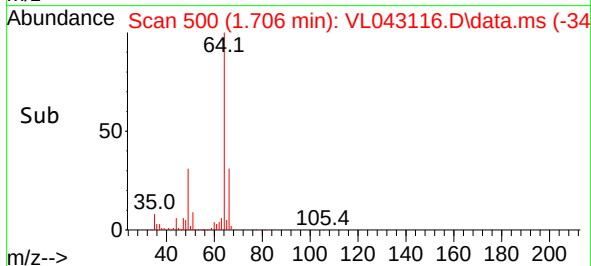
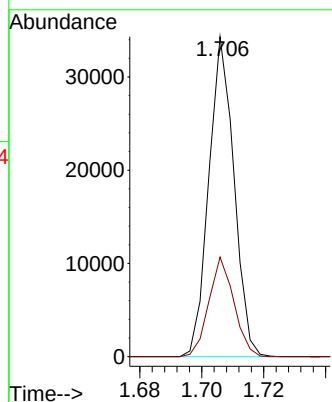
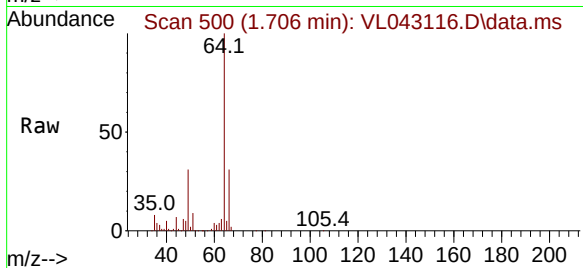




#7
Chloroethane
Concen: 9.138 ppbv
RT: 1.706 min Scan# 500
Delta R.T. -0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

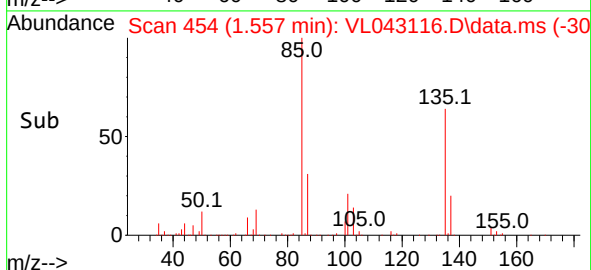
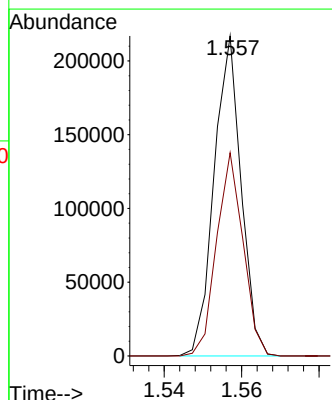
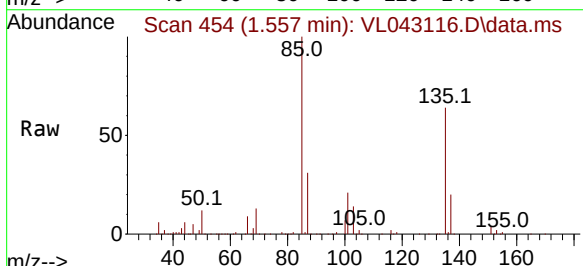
Instrument :
MSVOA_L
ClientSampleId :
VL1015ABS01

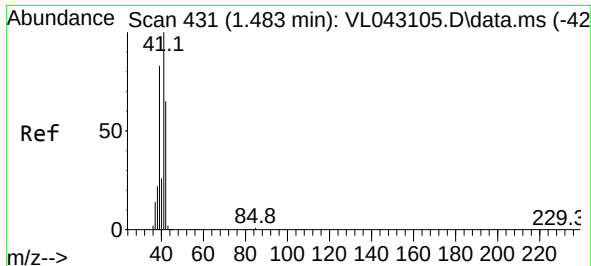
Tgt Ion: 64 Resp: 19366
Ion Ratio Lower Upper
64 100
66 31.1 26.0 39.0



#8
Dichlorotetrafluoroethane
Concen: 9.743 ppbv
RT: 1.557 min Scan# 454
Delta R.T. -0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

Tgt Ion: 85 Resp: 105053
Ion Ratio Lower Upper
85 100
135 62.5 48.2 72.4





#9

Propene

Concen: 8.283 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL043116.D

Acq: 15 Oct 2025 10:15

Instrument :

MSVOA_L

ClientSampleId :

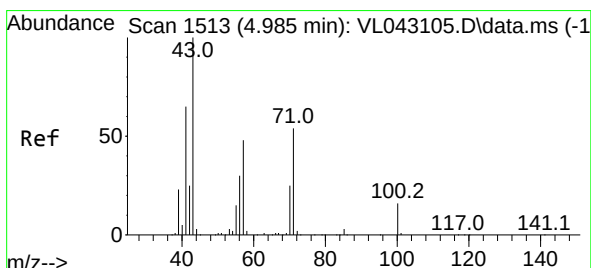
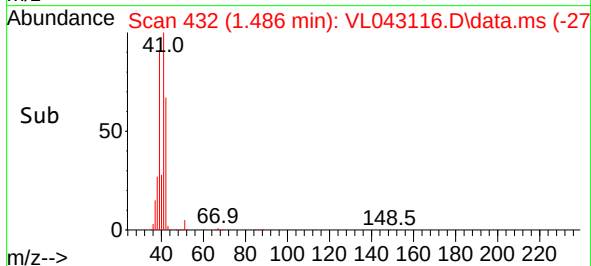
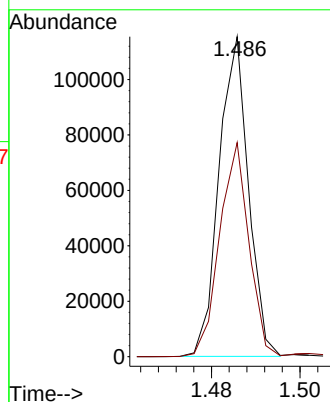
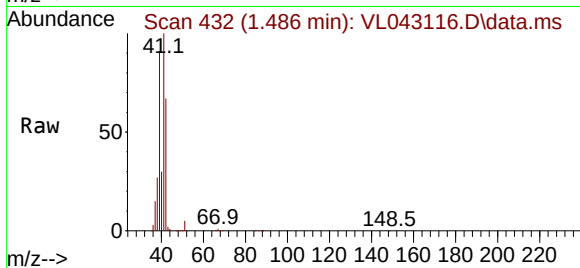
VL1015ABS01

Tgt Ion: 41 Resp: 53024

Ion Ratio Lower Upper

41 100

42 68.0 55.1 82.7



#10

Heptane

Concen: 8.228 ppbv

RT: 4.981 min Scan# 1512

Delta R.T. -0.003 min

Lab File: VL043116.D

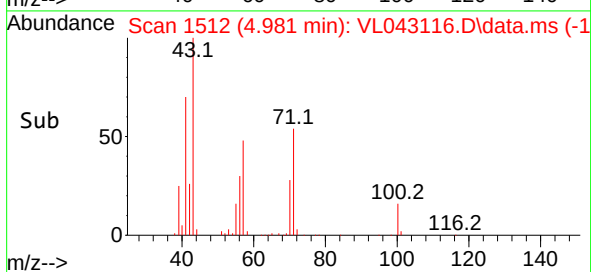
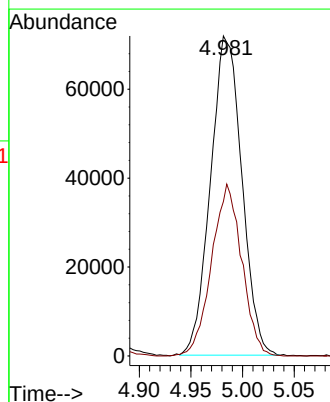
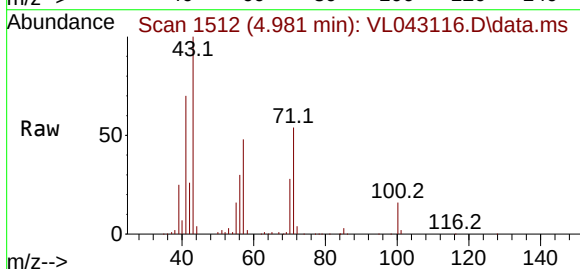
Acq: 15 Oct 2025 10:15

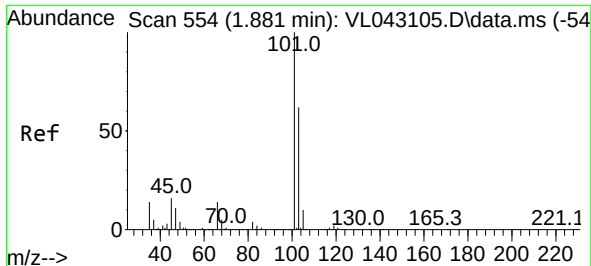
Tgt Ion: 43 Resp: 151642

Ion Ratio Lower Upper

43 100

57 51.8 40.8 61.2

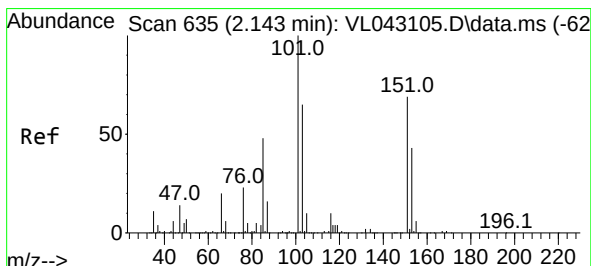
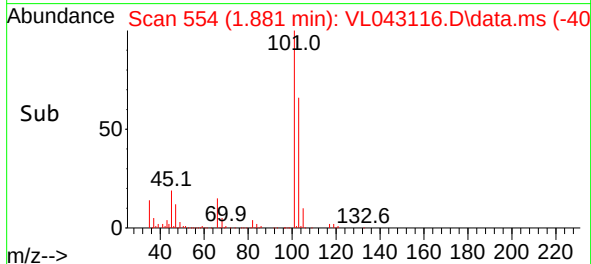
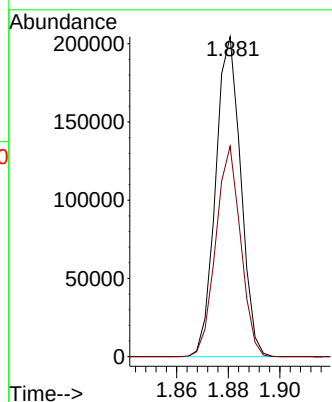
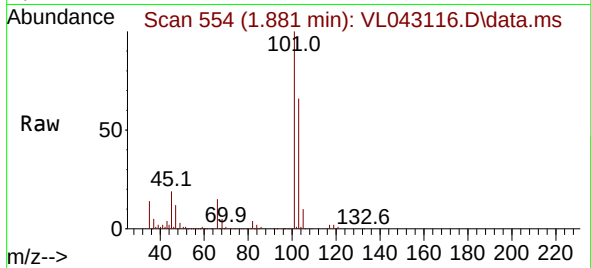




#11
Trichlorofluoromethane
Concen: 10.591 ppbv
RT: 1.881 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

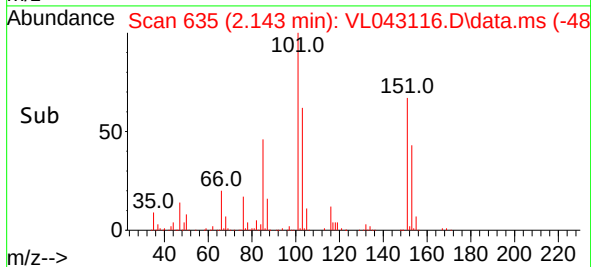
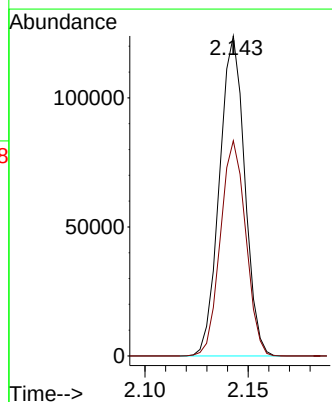
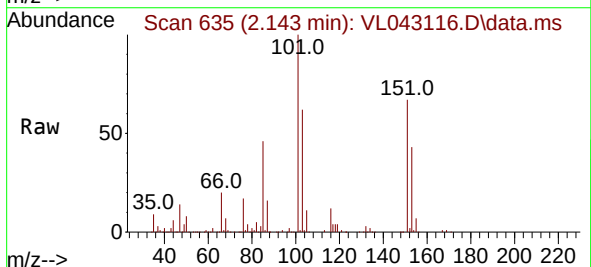
Instrument :
MSVOA_L
ClientSampleId :
VL1015ABS01

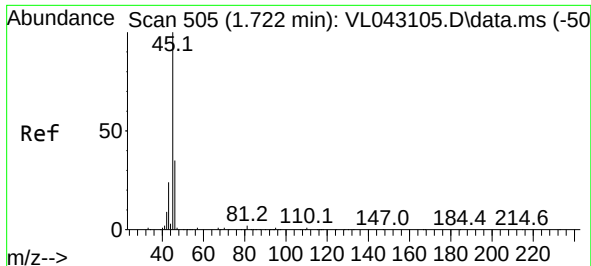
Tgt Ion:101 Resp: 138197
Ion Ratio Lower Upper
101 100
103 65.7 49.3 73.9



#12
1,1,2-Trichlorotrifluoroethane
Concen: 10.046 ppbv
RT: 2.143 min Scan# 635
Delta R.T. -0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

Tgt Ion:101 Resp: 105541
Ion Ratio Lower Upper
101 100
151 67.4 54.7 82.1

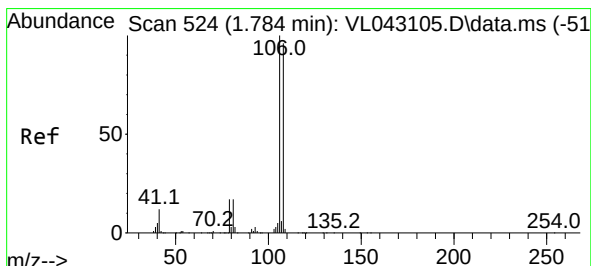
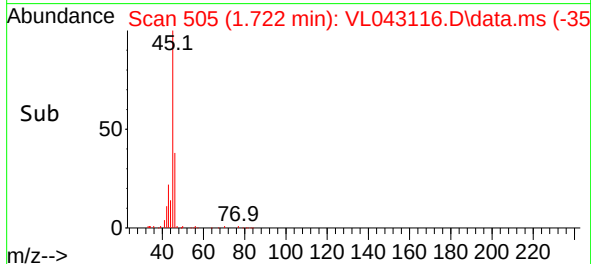
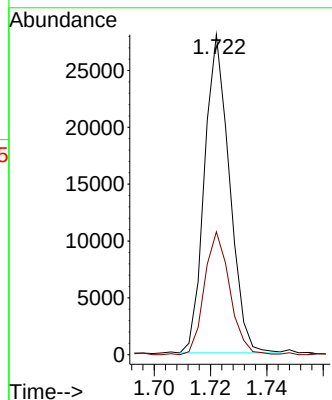
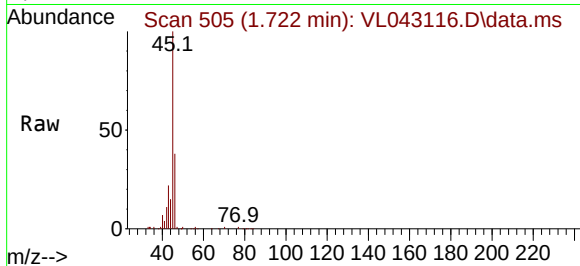




#13
Ethanol
Concen: 7.290 ppbv
RT: 1.722 min Scan# 505
Delta R.T. -0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

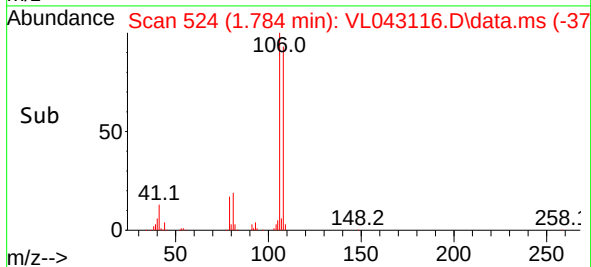
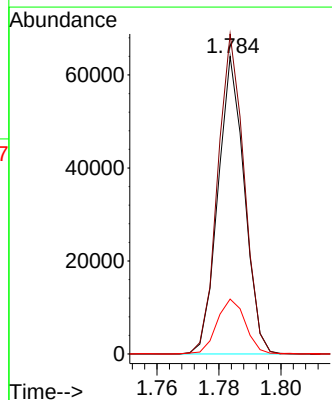
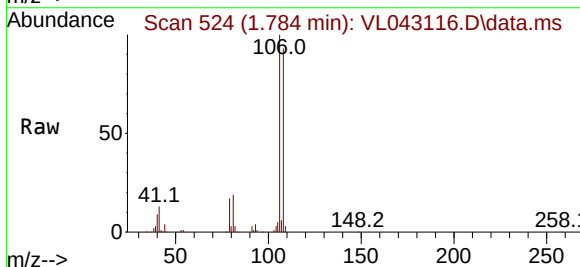
Instrument :
MSVOA_L
ClientSampleId :
VL1015ABS01

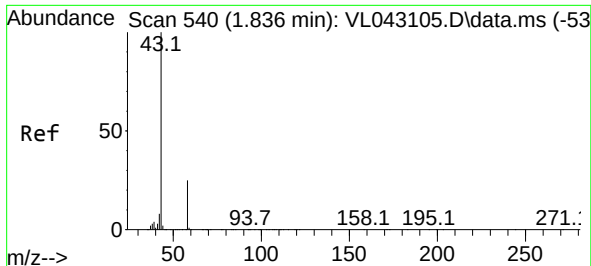
Tgt Ion: 45 Resp: 17262
Ion Ratio Lower Upper
45 100
46 39.5 14.7 58.9



#14
Bromoethene
Concen: 9.696 ppbv
RT: 1.784 min Scan# 524
Delta R.T. -0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

Tgt Ion: 108 Resp: 37841
Ion Ratio Lower Upper
108 100
106 107.5 84.4 126.6
79 20.3 15.3 22.9

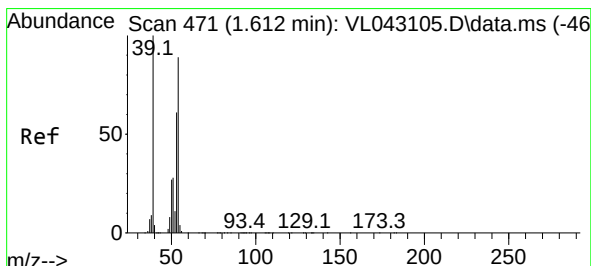
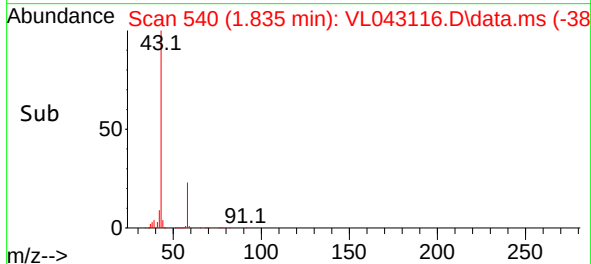
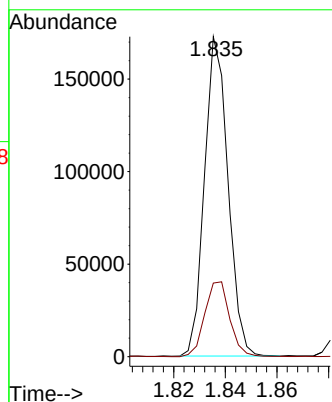
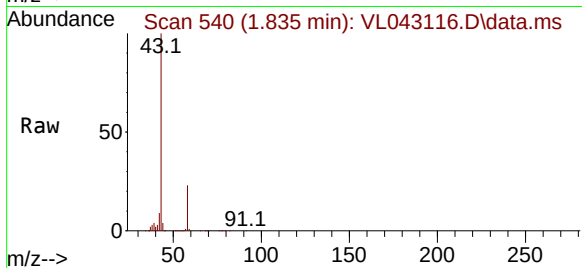




#15
Acetone
Concen: 8.639 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

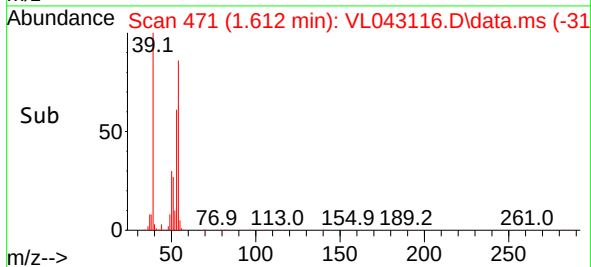
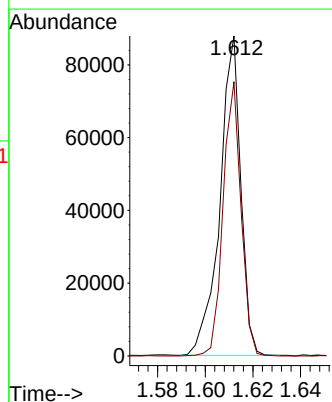
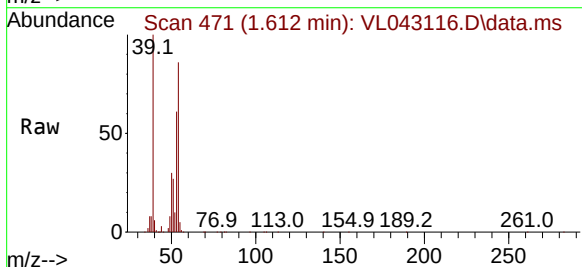
Instrument :
MSVOA_L
ClientSampleId :
VL1015ABS01

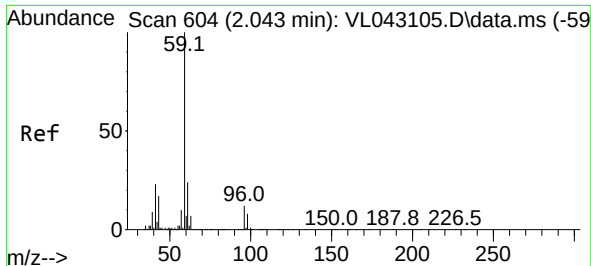
Tgt Ion: 43 Resp: 109263
Ion Ratio Lower Upper
43 100
58 25.2 20.8 31.2



#16
1,3-Butadiene
Concen: 8.872 ppbv
RT: 1.612 min Scan# 471
Delta R.T. -0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

Tgt Ion: 39 Resp: 53479
Ion Ratio Lower Upper
39 100
54 73.4 59.0 88.4





#17

tert-Butyl alcohol

Concen: 9.581 ppbv

RT: 2.039 min Scan# 604

Delta R.T. -0.003 min

Lab File: VL043116.D

Acq: 15 Oct 2025 10:15

Instrument :

MSVOA_L

ClientSampleId :

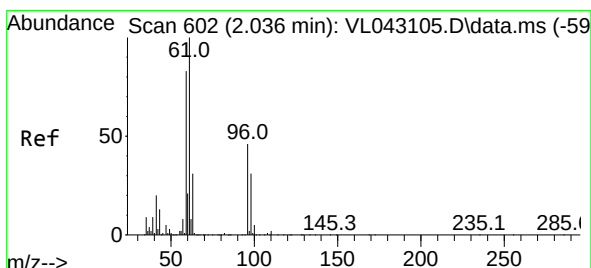
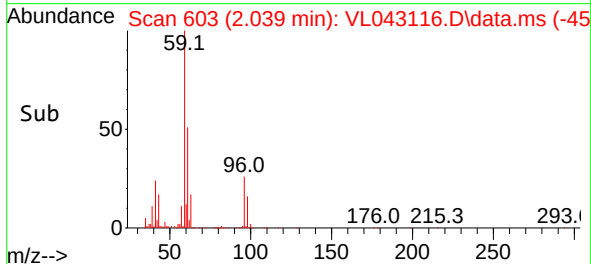
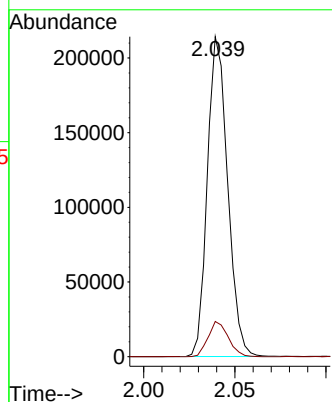
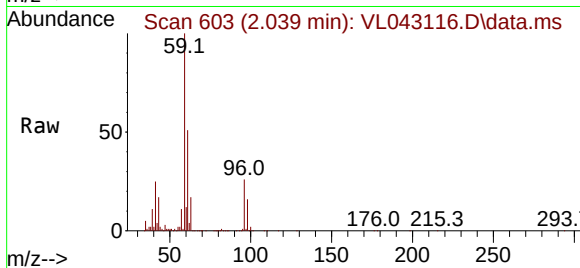
VL1015ABS01

Tgt Ion: 59 Resp: 166341

Ion Ratio Lower Upper

59 100

57 11.0 8.2 12.4



#18

1,1-Dichloroethene

Concen: 10.084 ppbv

RT: 2.036 min Scan# 602

Delta R.T. -0.000 min

Lab File: VL043116.D

Acq: 15 Oct 2025 10:15

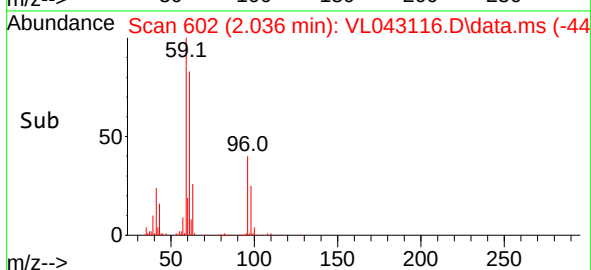
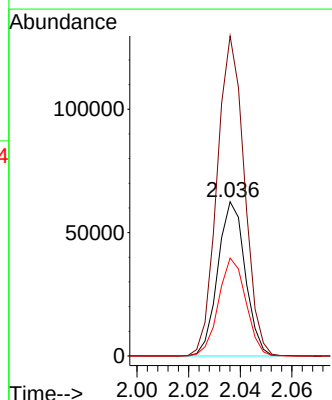
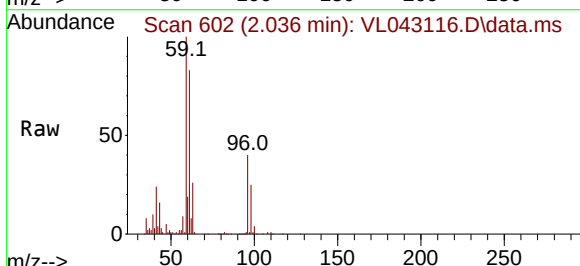
Tgt Ion: 96 Resp: 46186

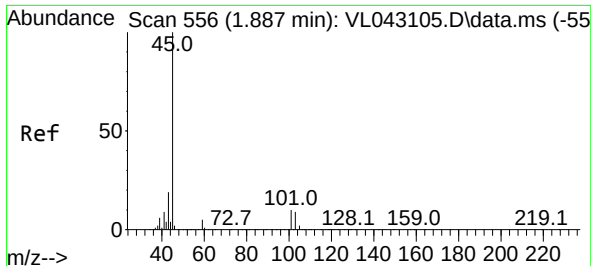
Ion Ratio Lower Upper

96 100

61 207.4 173.4 260.0

98 63.5 53.2 79.8

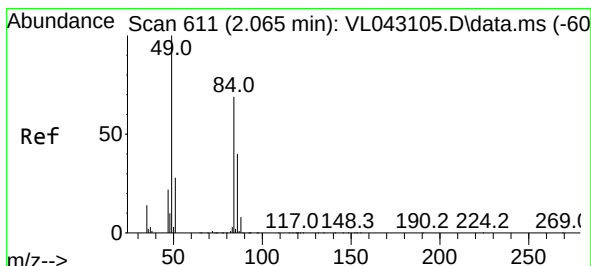
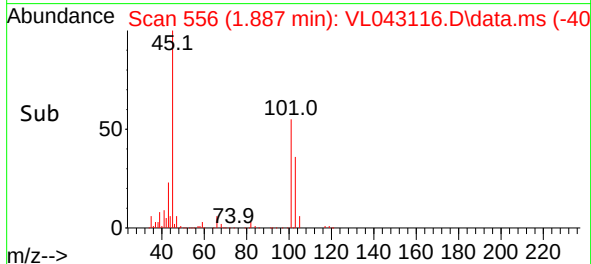
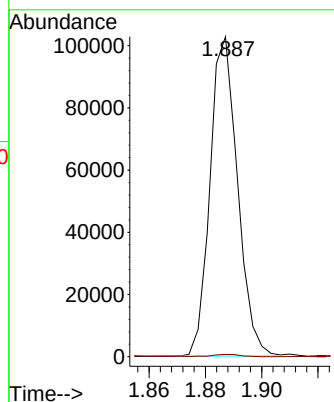
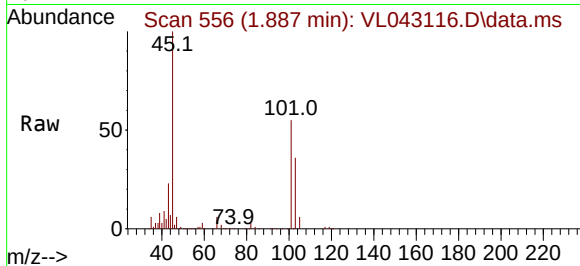




#19
Isopropyl Alcohol
Concen: 8.846 ppbv
RT: 1.887 min Scan# 556
Delta R.T. -0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

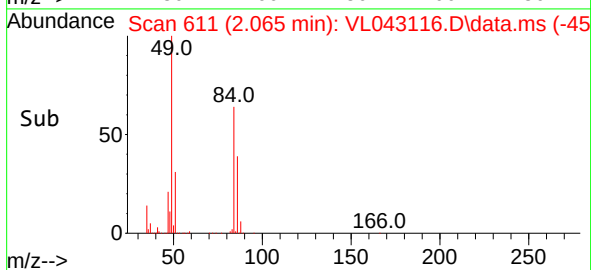
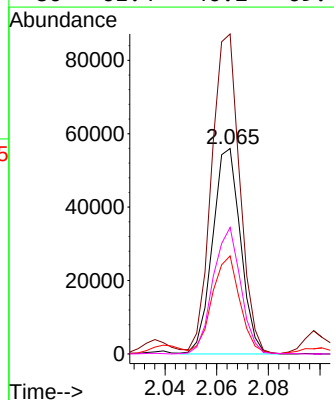
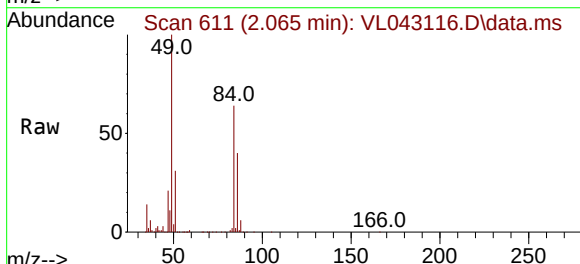
Instrument : MSVOA_1
ClientSampleId : VL1015ABS01

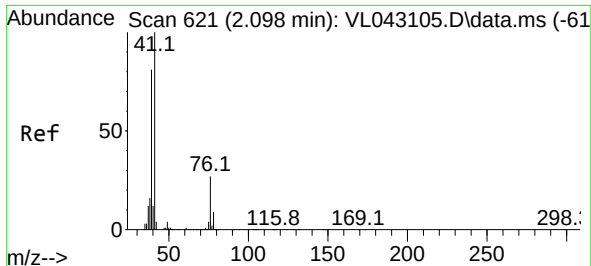
Tgt Ion: 45 Resp: 69684
Ion Ratio Lower Upper
45 100
58 39.4 31.3 46.9



#20
Methylene Chloride
Concen: 8.442 ppbv
RT: 2.065 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

Tgt Ion: 84 Resp: 42203
Ion Ratio Lower Upper
84 100
49 155.5 116.6 175.0
51 47.6 34.8 52.2
86 61.4 46.2 69.4

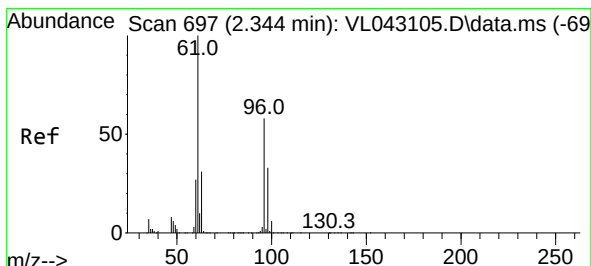
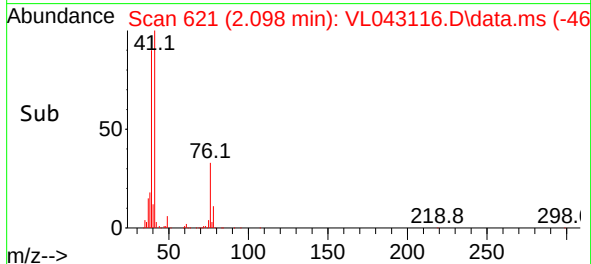
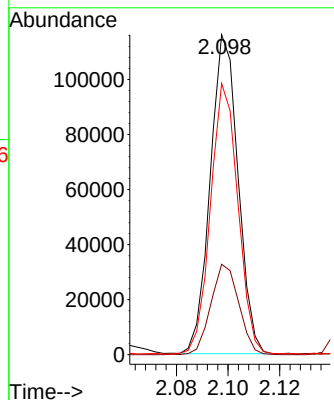
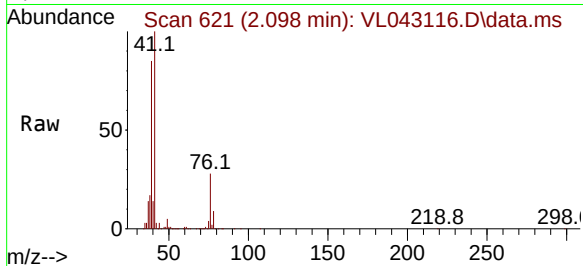




#21
 Allyl Chloride
 Concen: 9.312 ppbv
 RT: 2.098 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: VL043116.D
 Acq: 15 Oct 2025 10:15

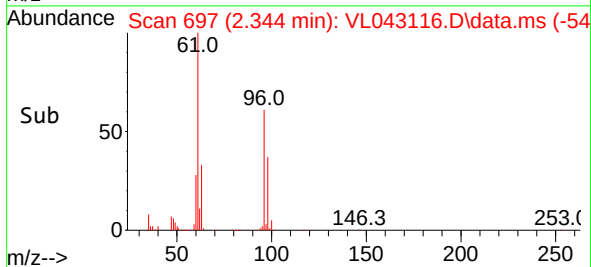
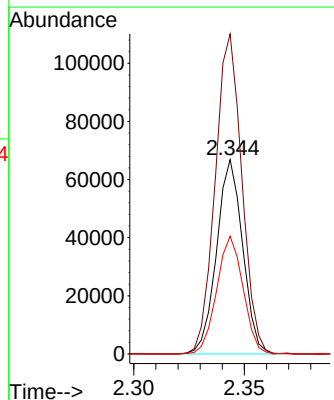
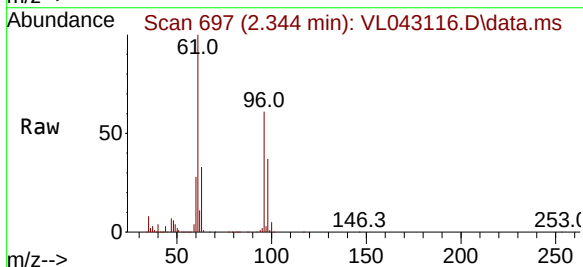
Instrument :
 MSVOA_L
 ClientSampleId :
 VL1015ABS01

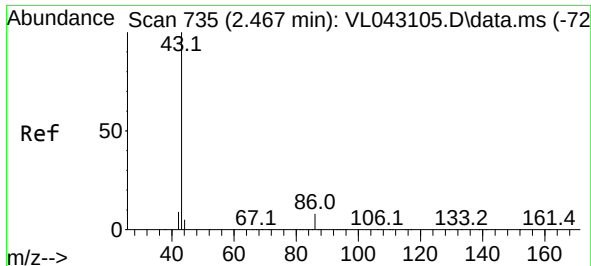
Tgt Ion: 41 Resp: 86785
 Ion Ratio Lower Upper
 41 100
 76 28.5 21.5 32.3
 39 83.7 60.8 91.2



#22
 trans-1,2-Dichloroethene
 Concen: 9.994 ppbv
 RT: 2.344 min Scan# 697
 Delta R.T. -0.000 min
 Lab File: VL043116.D
 Acq: 15 Oct 2025 10:15

Tgt Ion: 96 Resp: 54715
 Ion Ratio Lower Upper
 96 100
 61 164.5 137.0 205.6
 98 60.5 45.5 68.3

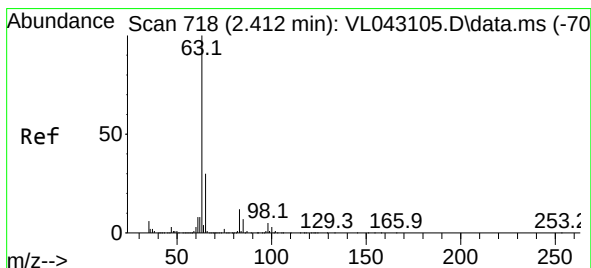
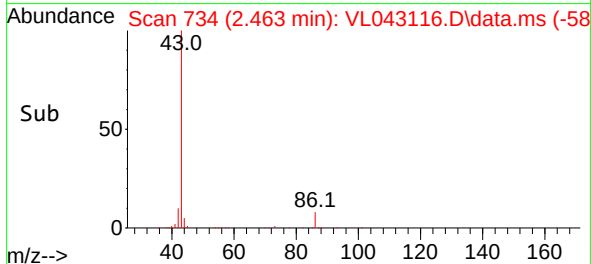
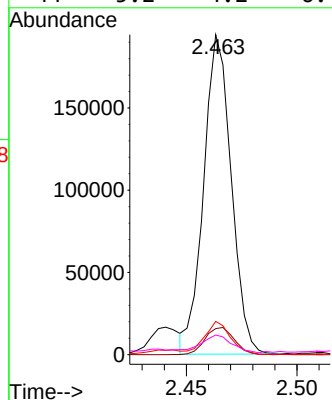
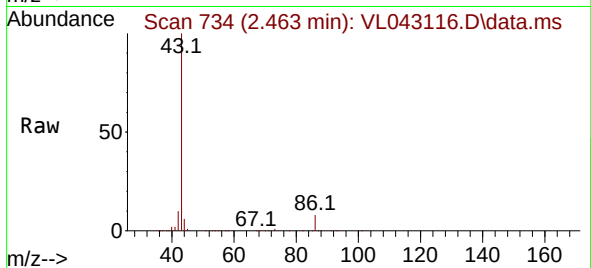




#23
 Vinyl Acetate
 Concen: 9.095 ppbv
 RT: 2.463 min Scan# 718
 Delta R.T. -0.004 min
 Lab File: VL043116.D
 Acq: 15 Oct 2025 10:15

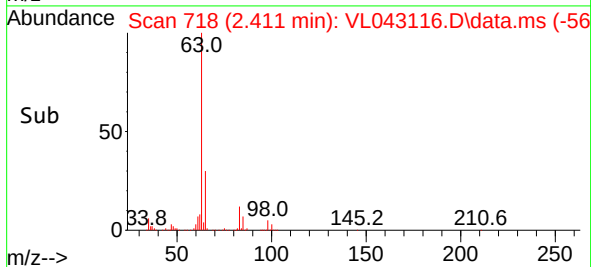
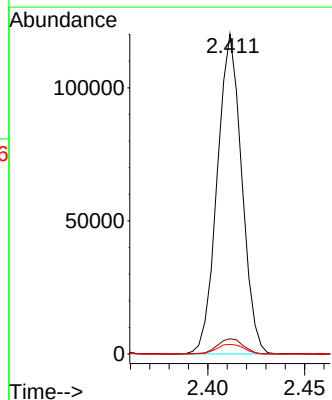
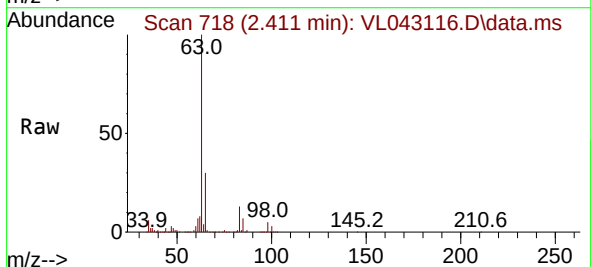
Instrument :
 MSVOA_1
 ClientSampleId :
 VL1015ABS01

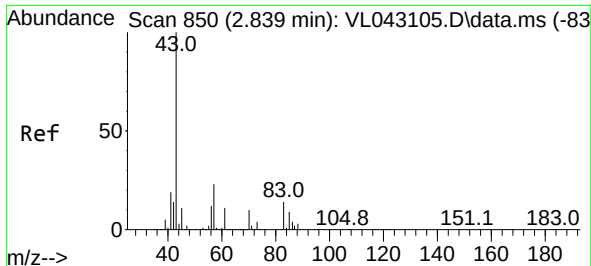
Tgt Ion:	43	Resp:	168496
Ion	Ratio	Lower	Upper
43	100		
86	8.1	6.2	9.2
42	10.3	7.6	11.4
44	5.2	4.2	6.4



#24
 1,1-Dichloroethane
 Concen: 10.005 ppbv
 RT: 2.411 min Scan# 718
 Delta R.T. -0.000 min
 Lab File: VL043116.D
 Acq: 15 Oct 2025 10:15

Tgt Ion:	63	Resp:	105823
Ion	Ratio	Lower	Upper
63	100		
98	4.8	2.6	7.8
100	3.0	1.5	4.4

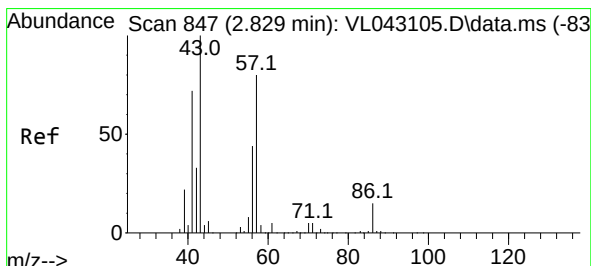
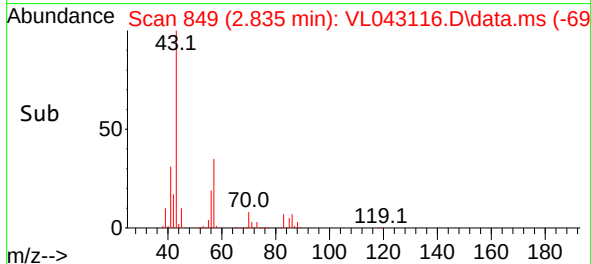
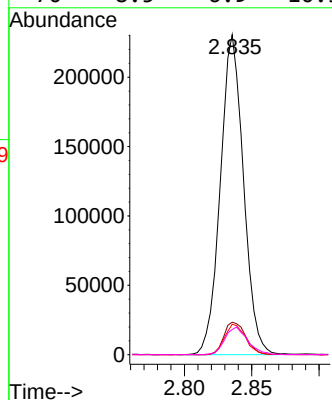
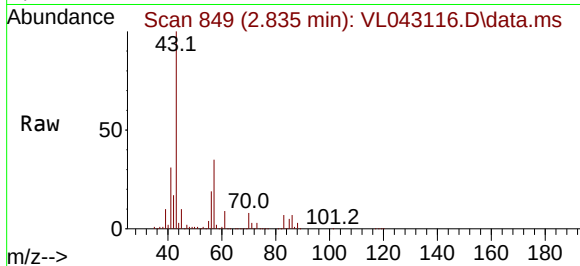




#25
Ethyl Acetate
Concen: 8.790 ppbv
RT: 2.835 min Scan# 849
Delta R.T. -0.003 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

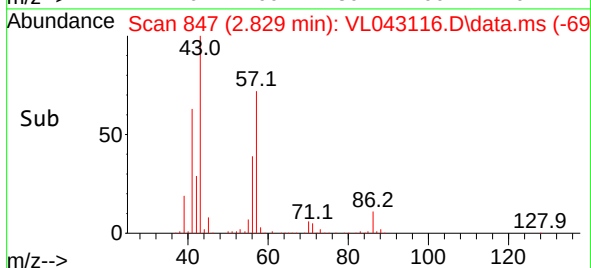
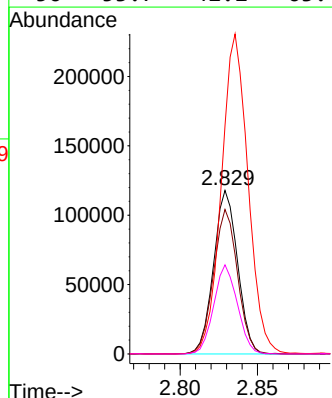
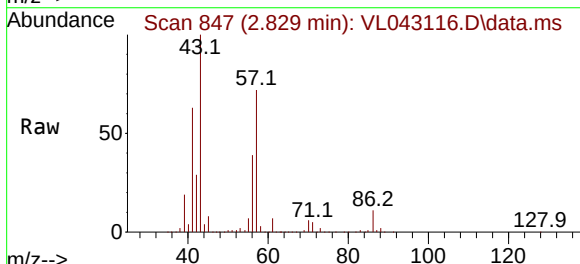
Instrument :
MSVOA_L
ClientSampleId :
VL1015ABS01

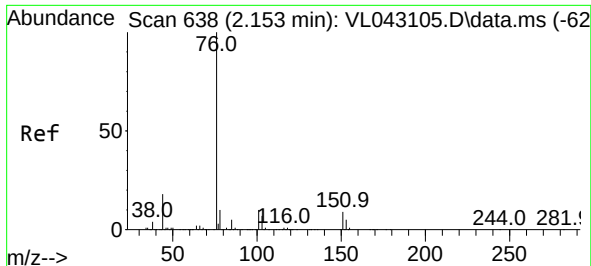
Tgt Ion:	43	Resp:	275684
Ion	Ratio	Lower	Upper
43	100		
45	9.7	7.8	11.8
61	8.7	7.0	10.6
70	8.5	6.9	10.3



#26
Hexane
Concen: 8.776 ppbv
RT: 2.829 min Scan# 847
Delta R.T. -0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

Tgt Ion:	57	Resp:	126834
Ion	Ratio	Lower	Upper
57	100		
41	89.2	71.4	107.0
43	218.1	178.5	267.7
56	53.7	42.2	63.4

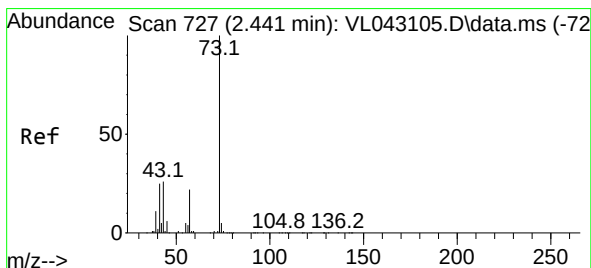
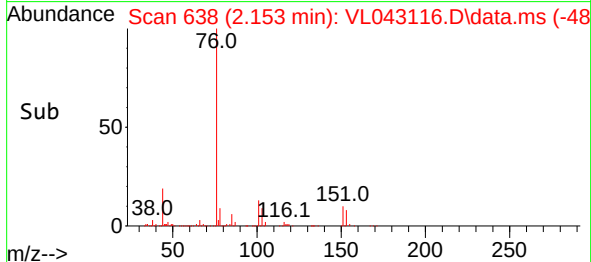
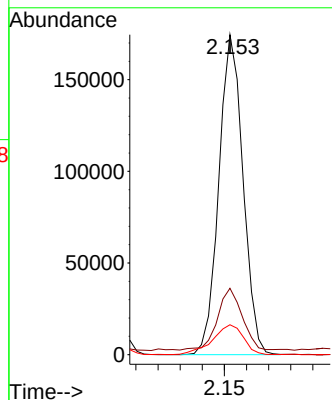
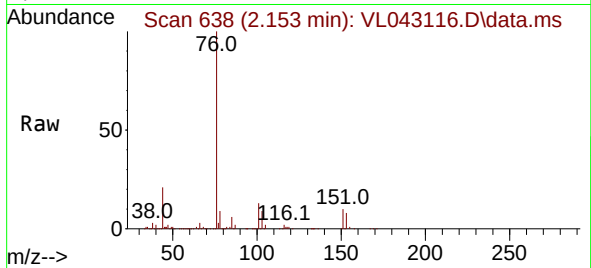




#27
Carbon Disulfide
Concen: 10.011 ppbv
RT: 2.153 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

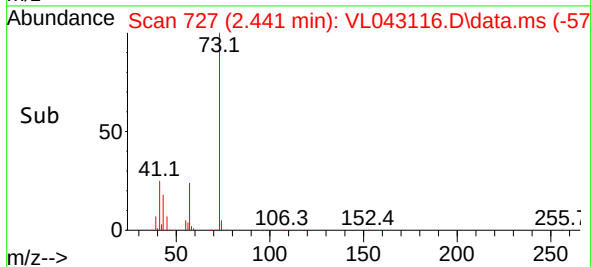
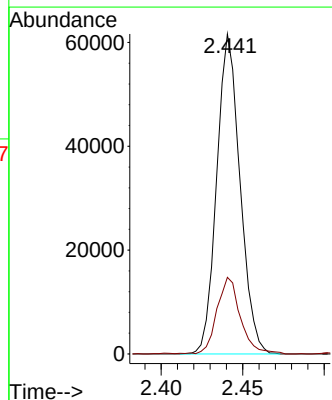
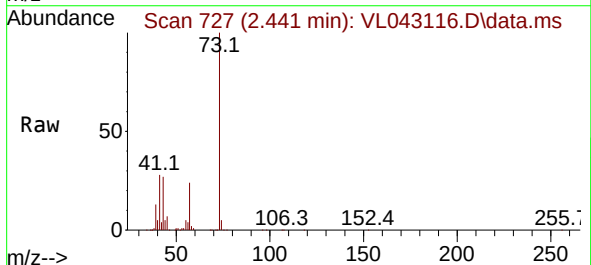
Instrument :
MSVOA_L
ClientSampleId :
VL1015ABS01

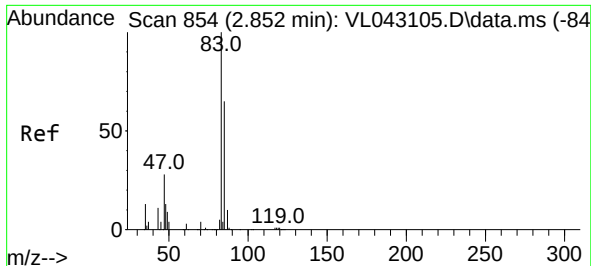
Tgt Ion: 76 Resp: 132560
Ion Ratio Lower Upper
76 100
44 19.8 16.7 25.1
78 12.0 9.3 13.9



#28
Methyl tert-Butyl Ether
Concen: 9.319 ppbv
RT: 2.441 min Scan# 727
Delta R.T. -0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

Tgt Ion: 73 Resp: 61275
Ion Ratio Lower Upper
73 100
57 24.3 20.5 30.7





#29

Chloroform

Concen: 9.607 ppbv

RT: 2.852 min Scan# 8

Delta R.T. -0.000 min

Lab File: VL043116.D

Acq: 15 Oct 2025 10:15

Instrument :

MSVOA_L

ClientSampleId :

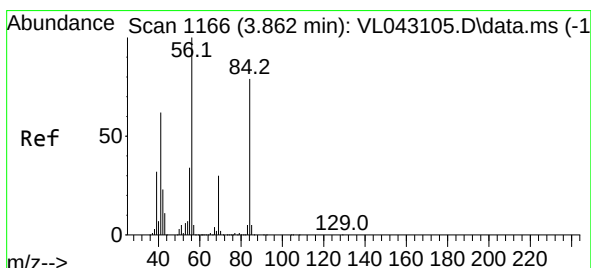
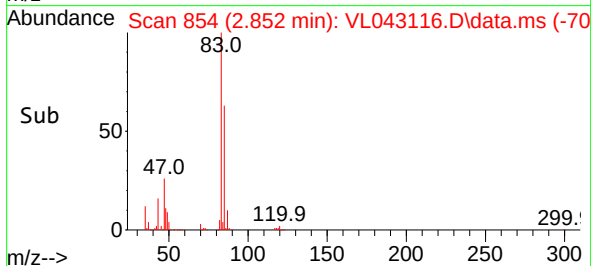
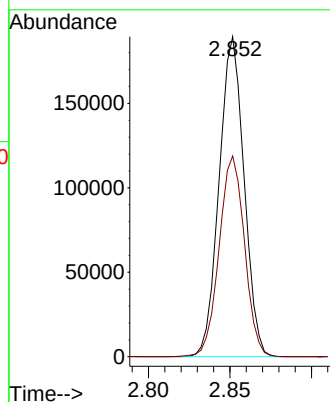
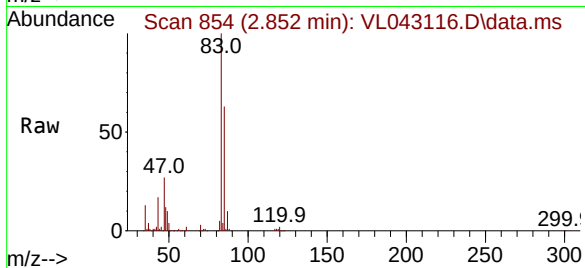
VL1015ABS01

Tgt Ion: 83 Resp: 201183

Ion Ratio Lower Upper

83 100

85 62.7 51.8 77.6



#30

Cyclohexane

Concen: 8.845 ppbv

RT: 3.861 min Scan# 1166

Delta R.T. -0.000 min

Lab File: VL043116.D

Acq: 15 Oct 2025 10:15

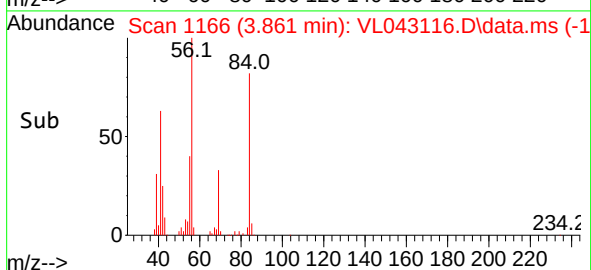
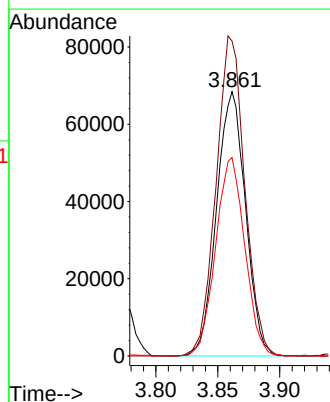
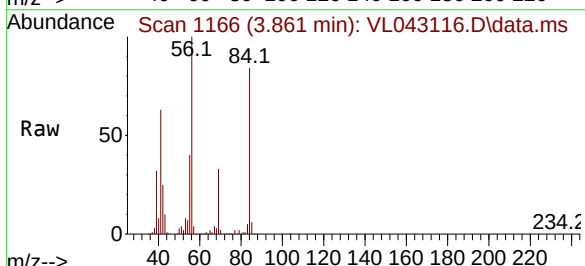
Tgt Ion: 84 Resp: 111570

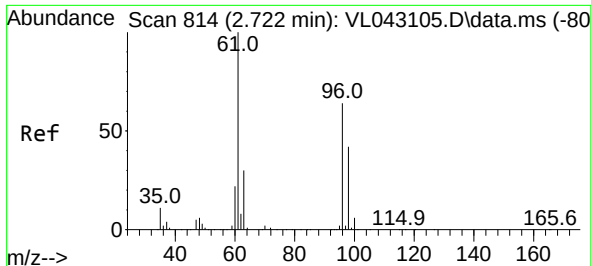
Ion Ratio Lower Upper

84 100

56 119.8 100.9 151.3

41 75.6 63.8 95.6

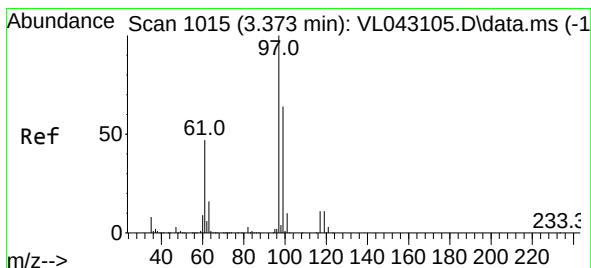
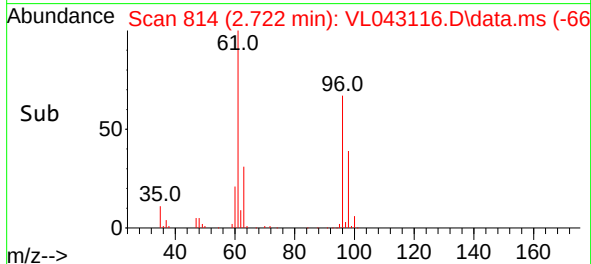
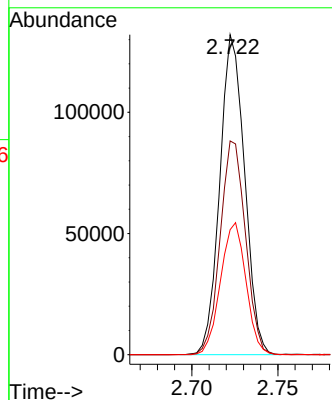
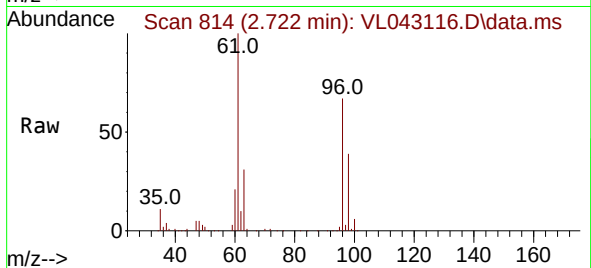




#31
 cis-1,2-Dichloroethene
 Concen: 9.596 ppbv
 RT: 2.722 min Scan# 814
 Delta R.T. -0.000 min
 Lab File: VL043116.D
 Acq: 15 Oct 2025 10:15

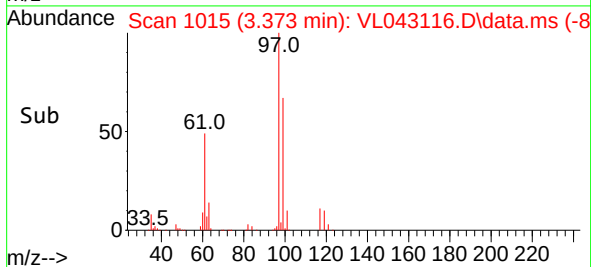
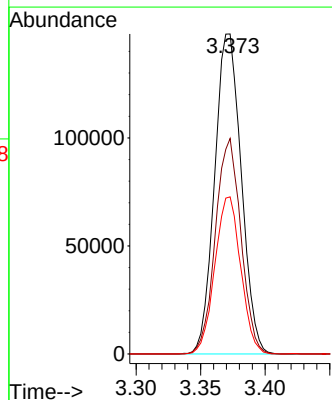
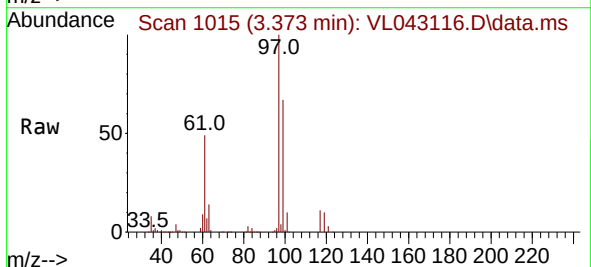
Instrument :
 MSVOA_L
 ClientSampleId :
 VL1015ABS01

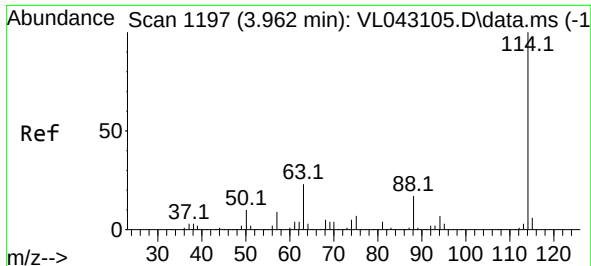
Tgt Ion: 61 Resp: 132435
 Ion Ratio Lower Upper
 61 100
 96 66.7 51.0 76.6
 98 39.1 33.5 50.3



#32
 1,1,1-Trichloroethane
 Concen: 9.741 ppbv
 RT: 3.373 min Scan# 1015
 Delta R.T. -0.000 min
 Lab File: VL043116.D
 Acq: 15 Oct 2025 10:15

Tgt Ion: 97 Resp: 212419
 Ion Ratio Lower Upper
 97 100
 99 64.5 51.3 76.9
 61 47.8 38.4 57.6

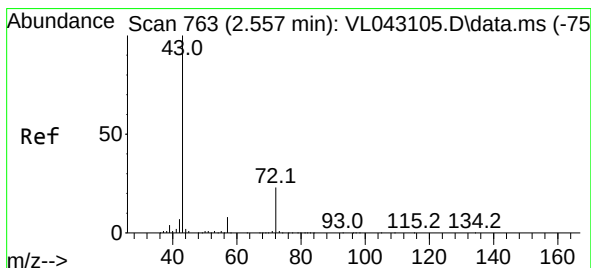
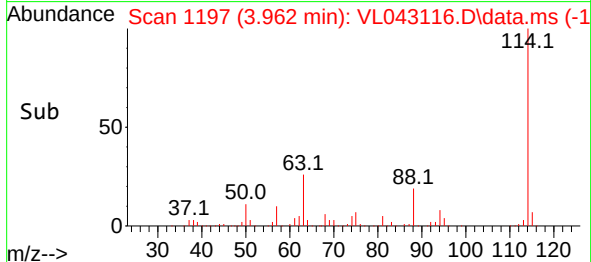
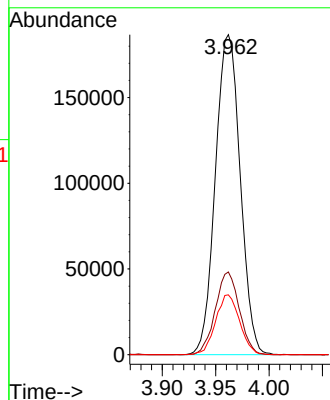
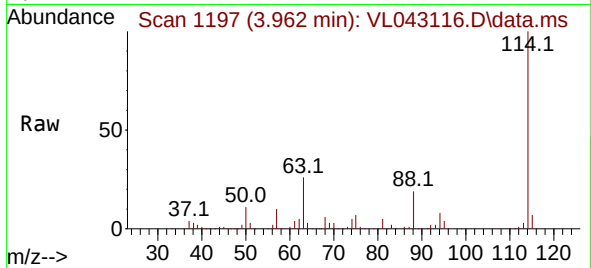




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.962 min Scan# 1197
 Delta R.T. -0.000 min
 Lab File: VL043116.D
 Acq: 15 Oct 2025 10:15

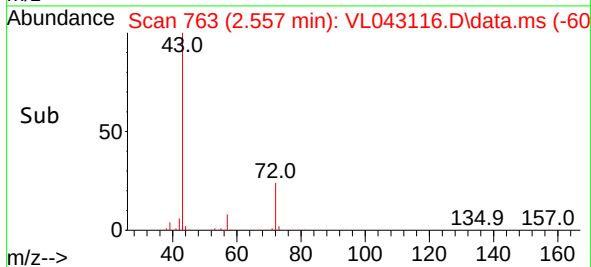
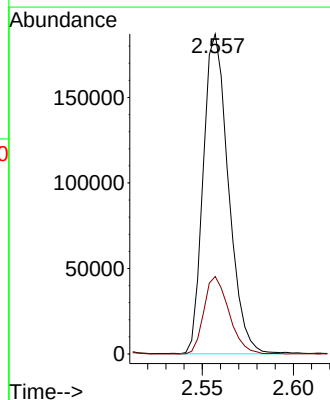
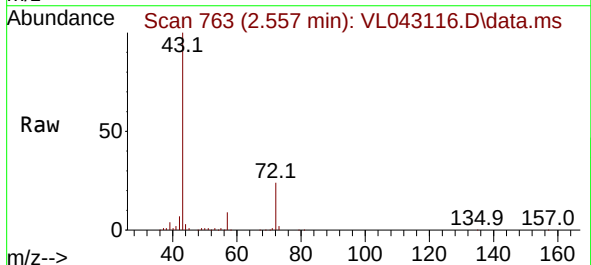
Instrument :
 MSVOA_1
 ClientSampleId :
 VL1015ABS01

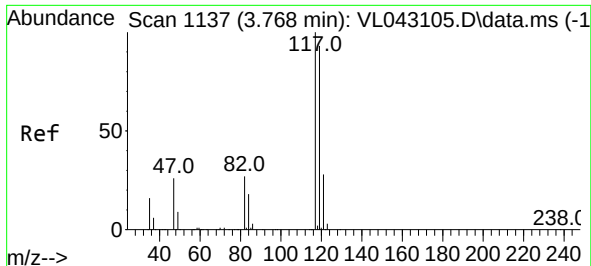
Tgt Ion:114 Resp: 302461
 Ion Ratio Lower Upper
 114 100
 63 25.0 19.3 28.9
 88 18.1 13.9 20.9



#34
 2-Butanone
 Concen: 8.858 ppbv
 RT: 2.557 min Scan# 763
 Delta R.T. -0.000 min
 Lab File: VL043116.D
 Acq: 15 Oct 2025 10:15

Tgt Ion: 43 Resp: 180097
 Ion Ratio Lower Upper
 43 100
 72 24.1 18.4 27.6

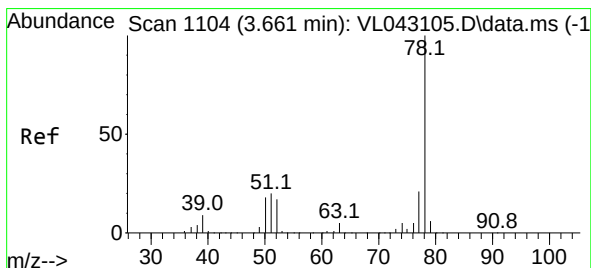
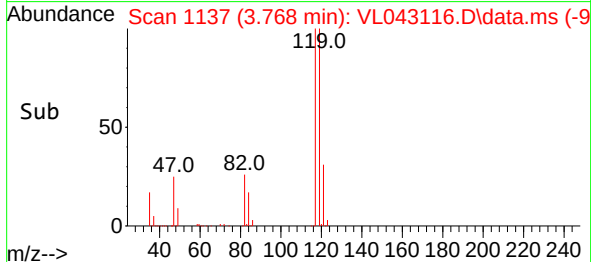
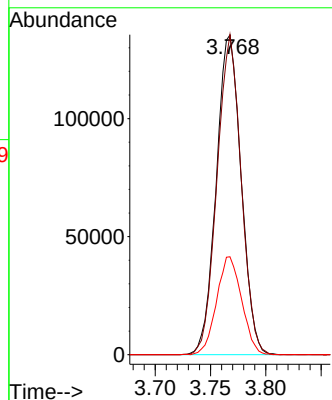
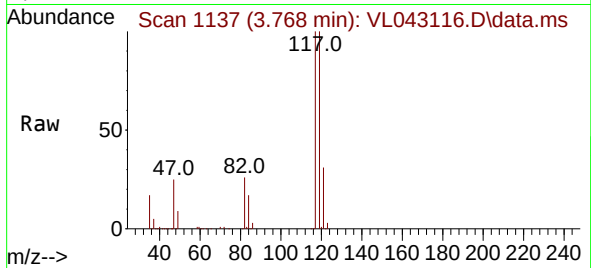




#35
Carbon Tetrachloride
Concen: 9.739 ppbv
RT: 3.768 min Scan# 1137
Delta R.T. -0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

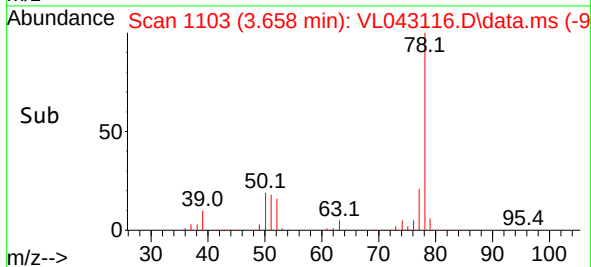
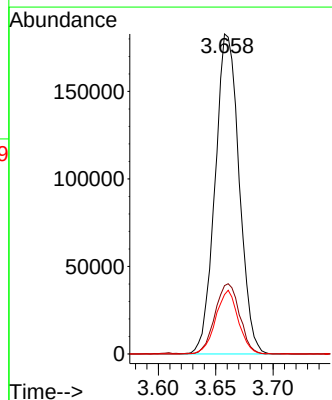
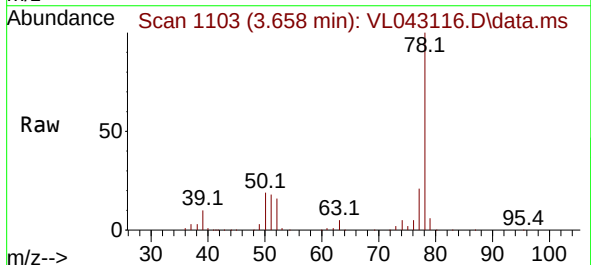
Instrument :
MSVOA_L
ClientSampleId :
VL1015ABS01

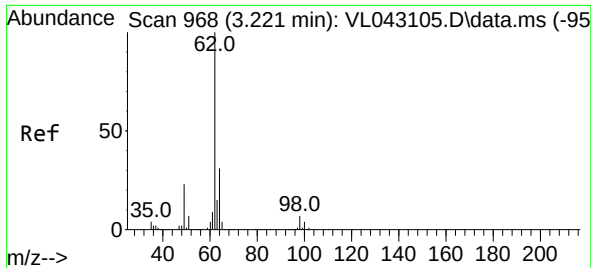
Tgt Ion:117 Resp: 211777
Ion Ratio Lower Upper
117 100
119 100.1 74.1 111.1
121 30.6 22.2 33.2



#36
Benzene
Concen: 9.354 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. -0.003 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

Tgt Ion: 78 Resp: 266465
Ion Ratio Lower Upper
78 100
77 21.3 17.0 25.6
50 18.6 14.6 22.0

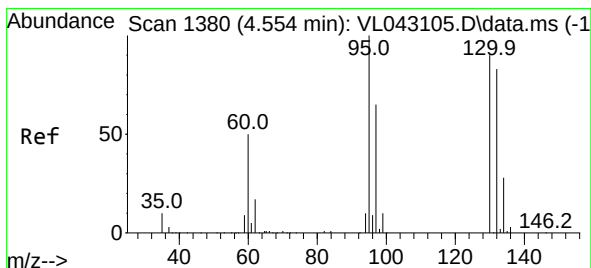
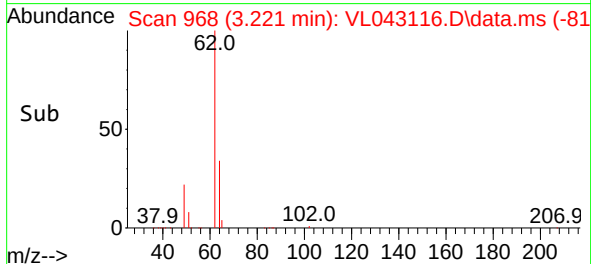
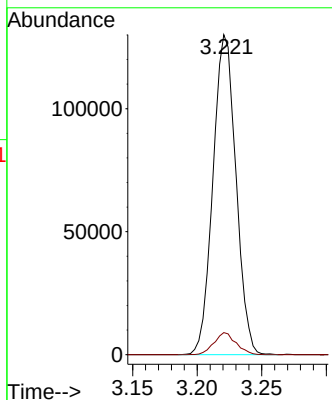
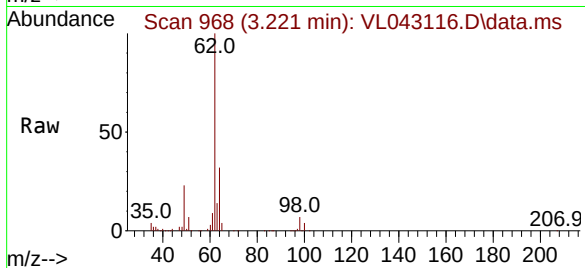




#37
1,2-Dichloroethane
Concen: 9.808 ppbv
RT: 3.221 min Scan# 90
Delta R.T. -0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

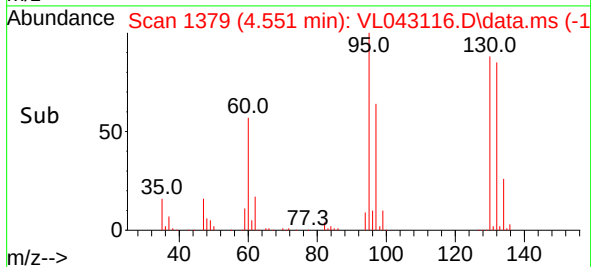
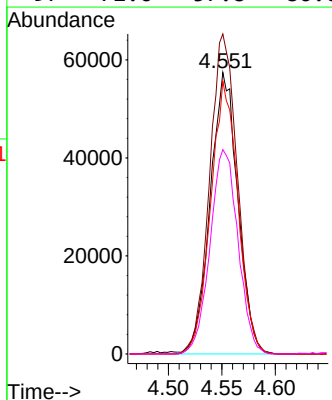
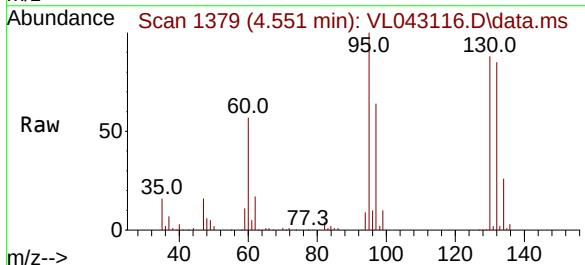
Instrument :
MSVOA_L
ClientSampleId :
VL1015ABS01

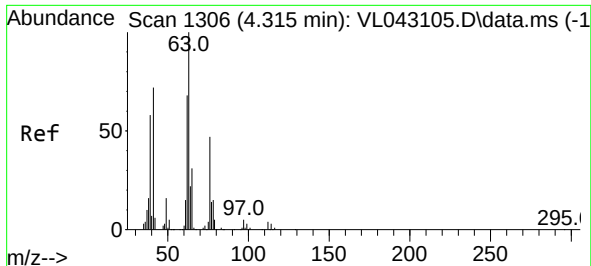
Tgt Ion: 62 Resp: 160950
Ion Ratio Lower Upper
62 100
98 6.6 5.8 8.6



#38
Trichloroethene
Concen: 8.665 ppbv
RT: 4.551 min Scan# 1379
Delta R.T. -0.003 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

Tgt Ion:130 Resp: 103087
Ion Ratio Lower Upper
130 100
95 113.7 88.6 133.0
132 96.9 73.4 110.0
97 72.6 57.8 86.6





#39

1,2-Dichloropropane

Concen: 8.890 ppbv

RT: 4.315 min Scan# 11

Delta R.T. -0.000 min

Lab File: VL043116.D

Acq: 15 Oct 2025 10:15

Instrument :

MSVOA_L

ClientSampleId :

VL1015ABS01

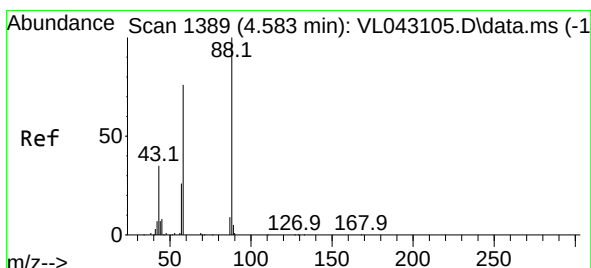
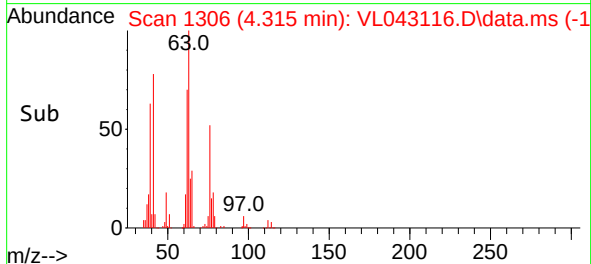
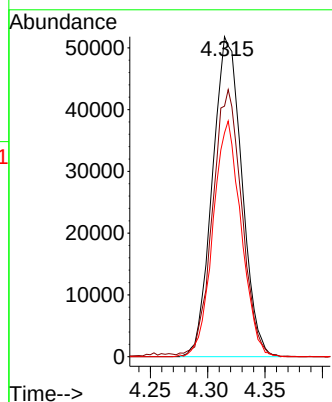
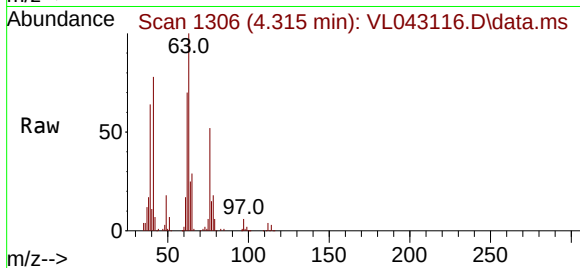
Tgt Ion: 63 Resp: 92588

Ion Ratio Lower Upper

63 100

41 78.1 58.0 87.0

62 69.8 54.7 82.1



#40

1,4-Dioxane

Concen: 9.263 ppbv

RT: 4.583 min Scan# 1389

Delta R.T. -0.000 min

Lab File: VL043116.D

Acq: 15 Oct 2025 10:15

Tgt Ion: 88 Resp: 43167

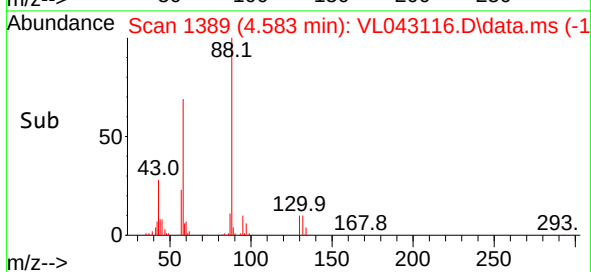
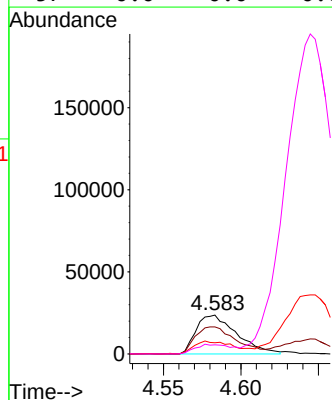
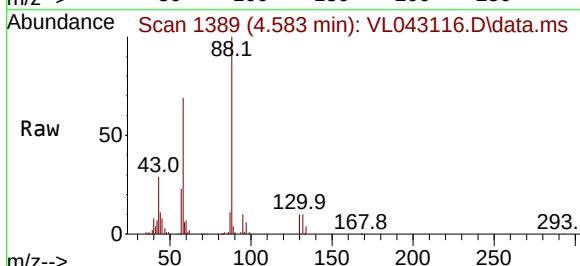
Ion Ratio Lower Upper

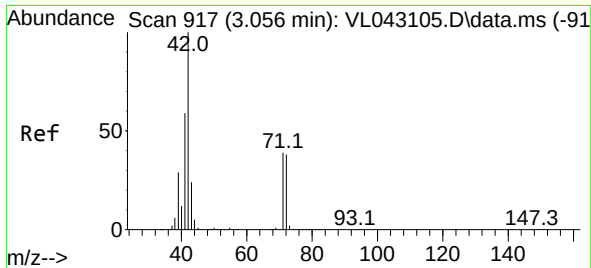
88 100

58 71.8 61.1 91.7

43 34.4 24.0 36.0

57 0.0 0.0 0.0

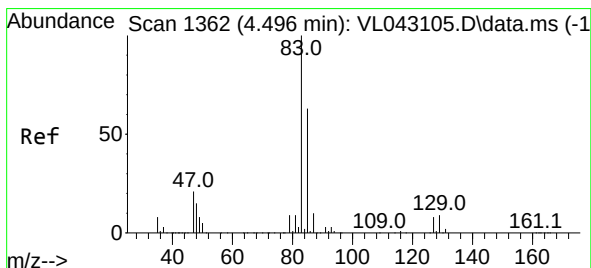
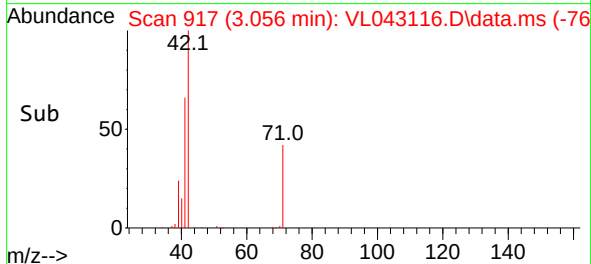
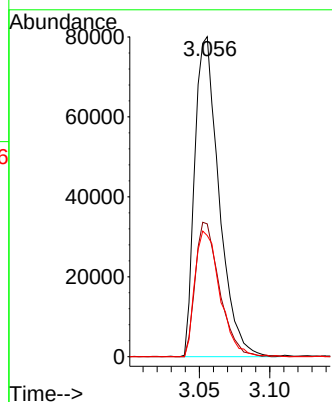
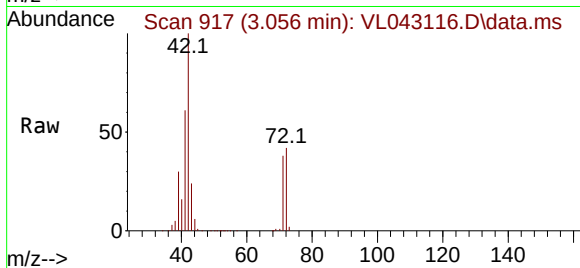




#41
Tetrahydrofuran
Concen: 8.435 ppbv
RT: 3.056 min Scan# 917
Delta R.T. -0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

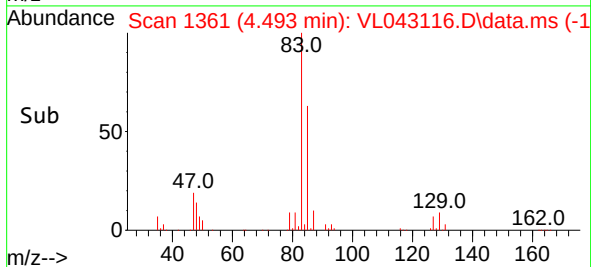
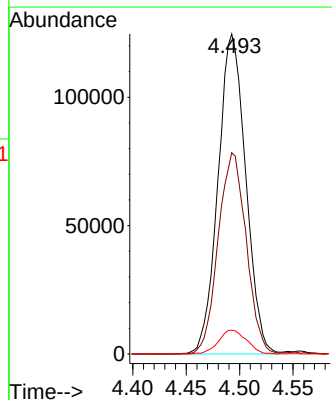
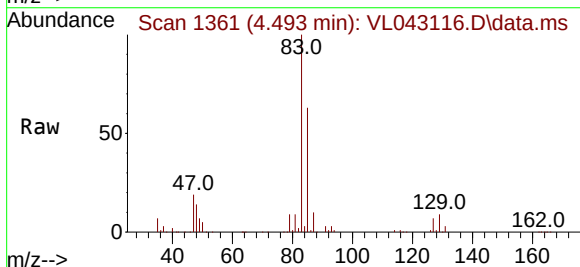
Instrument :
MSVOA_L
ClientSampleId :
VL1015ABS01

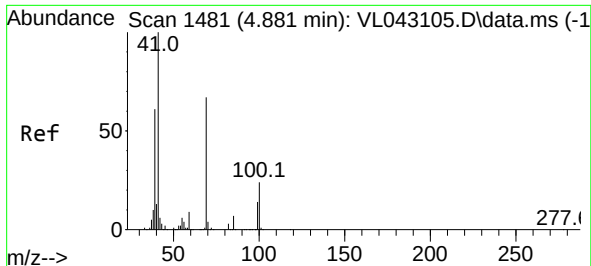
Tgt Ion:	42	Resp:	95919
Ion	Ratio	Lower	Upper
42	100		
72	42.0	31.3	46.9
71	40.6	30.4	45.6



#42
Bromodichloromethane
Concen: 9.904 ppbv
RT: 4.493 min Scan# 1361
Delta R.T. -0.003 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

Tgt Ion:	83	Resp:	224949
Ion	Ratio	Lower	Upper
83	100		
85	62.9	50.6	75.8
127	7.4	6.3	9.5

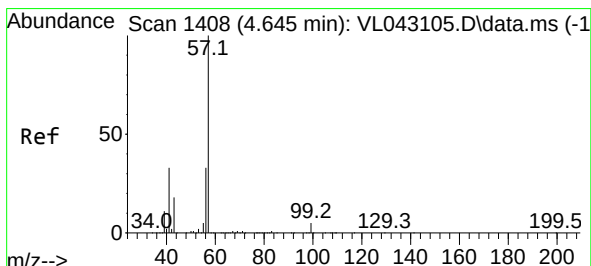
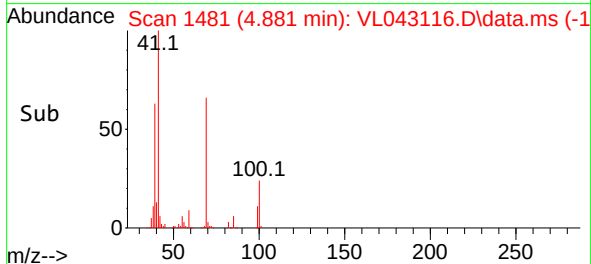
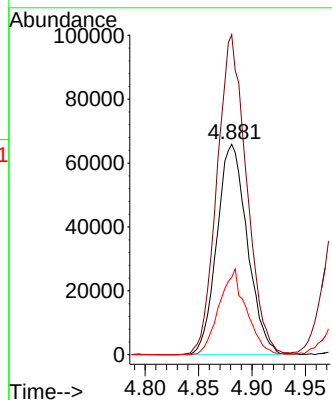
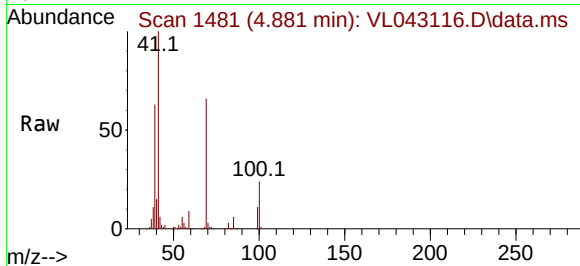




#43
Methyl Methacrylate
Concen: 9.011 ppbv
RT: 4.881 min Scan# 1481
Delta R.T. -0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

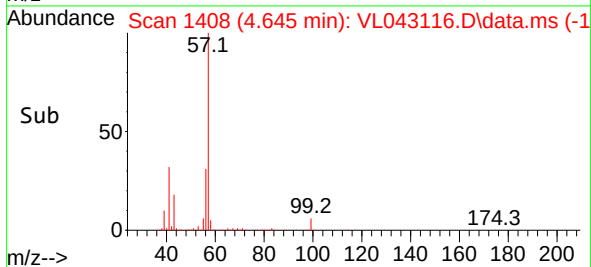
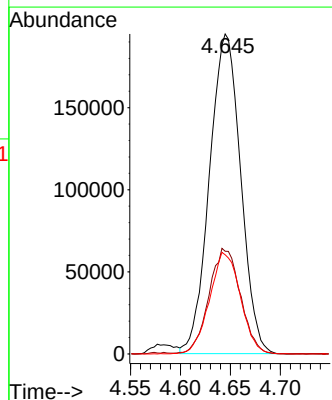
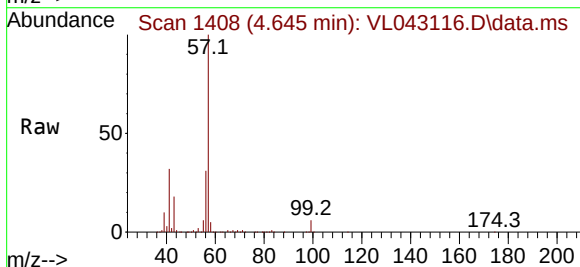
Instrument :
MSVOA_L
ClientSampleId :
VL1015ABS01

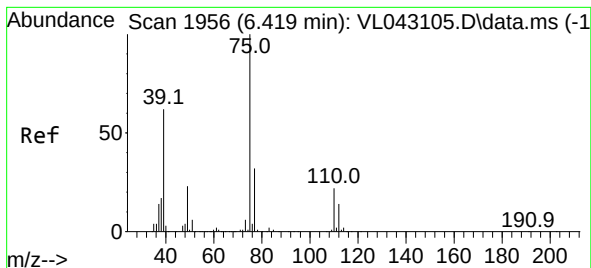
Tgt Ion: 69 Resp: 130372
Ion Ratio Lower Upper
69 100
41 147.8 120.5 180.7
100 36.5 29.0 43.4



#44
2,2,4-Trimethylpentane
Concen: 8.802 ppbv
RT: 4.645 min Scan# 1408
Delta R.T. -0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

Tgt Ion: 57 Resp: 423028
Ion Ratio Lower Upper
57 100
41 33.5 26.3 39.5
56 31.5 25.9 38.9





#45

t-1,3-Dichloropropene

Concen: 9.413 ppbv

RT: 6.418 min Scan# 1956

Delta R.T. -0.000 min

Lab File: VL043116.D

Acq: 15 Oct 2025 10:15

Instrument :

MSVOA_L

ClientSampleId :

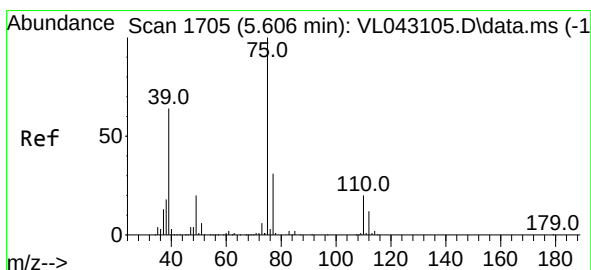
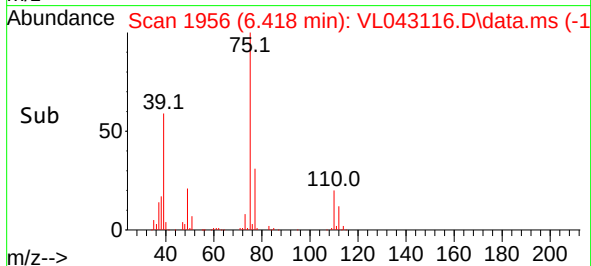
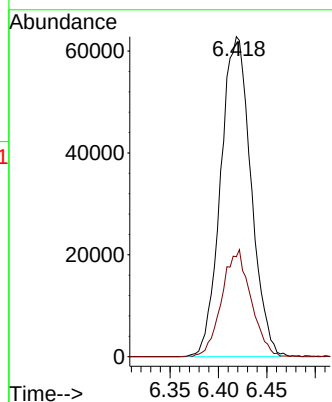
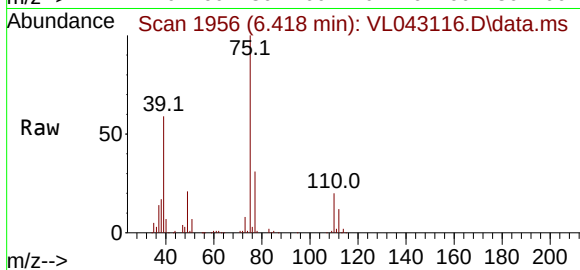
VL1015ABS01

Tgt Ion: 75 Resp: 136672

Ion Ratio Lower Upper

75 100

77 31.2 25.4 38.2



#46

cis-1,3-Dichloropropene

Concen: 9.296 ppbv

RT: 5.603 min Scan# 1704

Delta R.T. -0.003 min

Lab File: VL043116.D

Acq: 15 Oct 2025 10:15

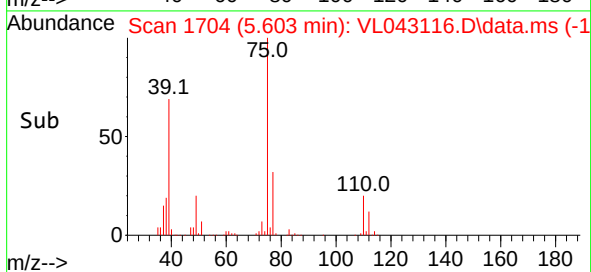
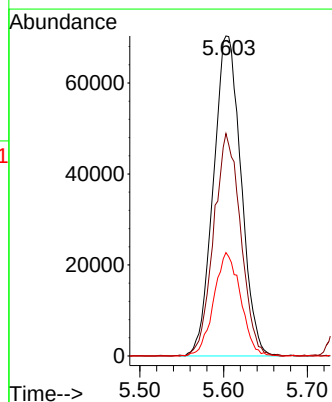
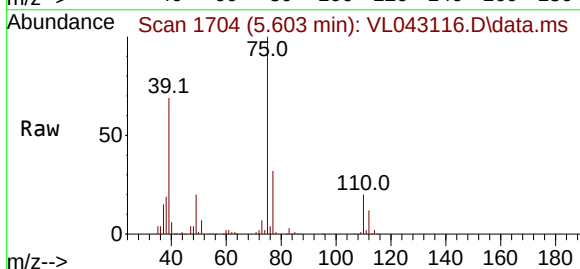
Tgt Ion: 75 Resp: 161245

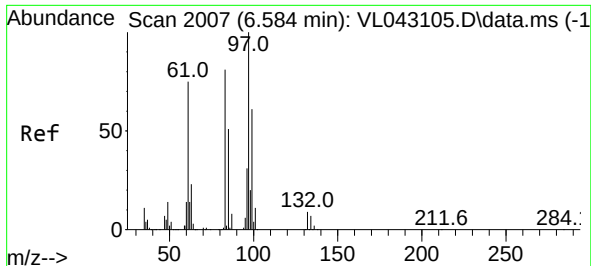
Ion Ratio Lower Upper

75 100

39 69.2 51.0 76.6

77 32.3 25.0 37.4





#47

1,1,2-Trichloroethane

Concen: 9.146 ppbv

RT: 6.583 min Scan# 2007

Delta R.T. -0.000 min

Lab File: VL043116.D

Acq: 15 Oct 2025 10:15

Instrument :

MSVOA_L

ClientSampleId :

VL1015ABS01

Tgt Ion: 97 Resp: 102863

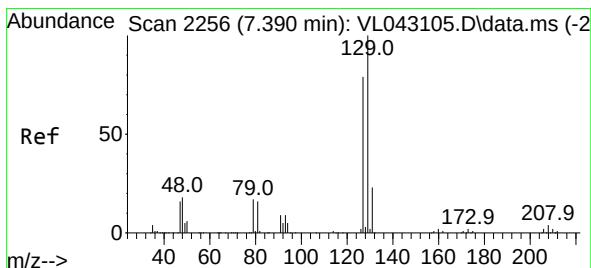
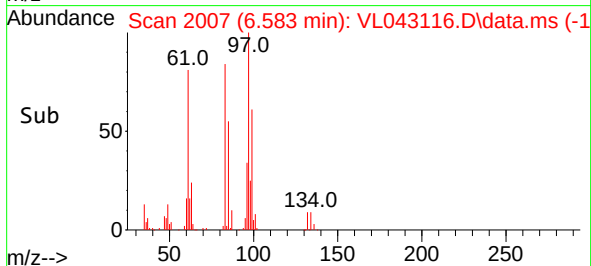
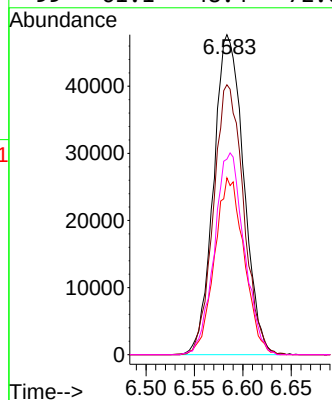
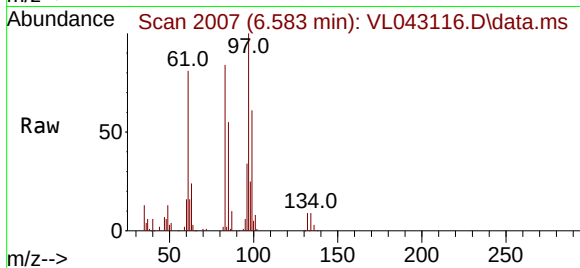
Ion Ratio Lower Upper

97 100

83 84.1 64.6 96.8

85 55.3 40.6 60.8

99 61.1 48.4 72.6



#48

Dibromochloromethane

Concen: 9.626 ppbv

RT: 7.389 min Scan# 2256

Delta R.T. -0.000 min

Lab File: VL043116.D

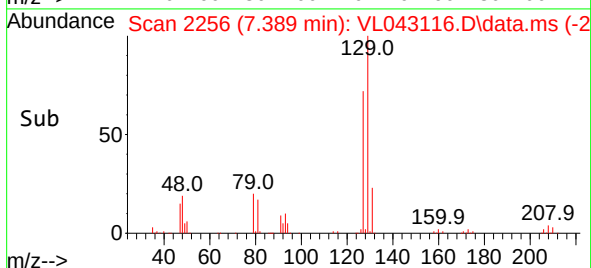
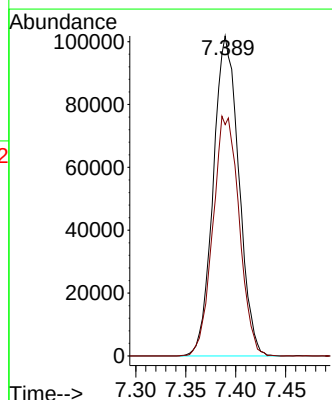
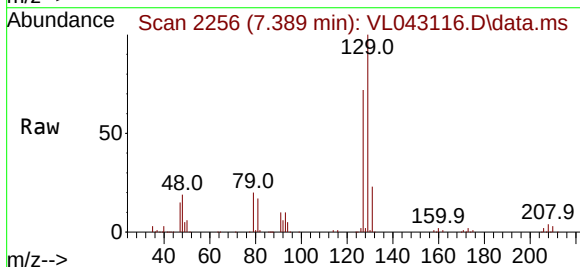
Acq: 15 Oct 2025 10:15

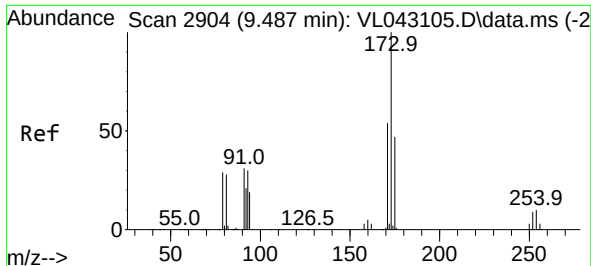
Tgt Ion: 129 Resp: 180998

Ion Ratio Lower Upper

129 100

127 77.3 39.3 117.9

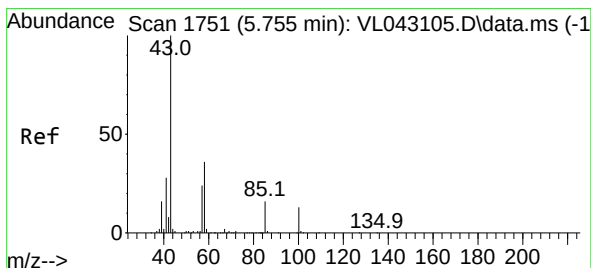
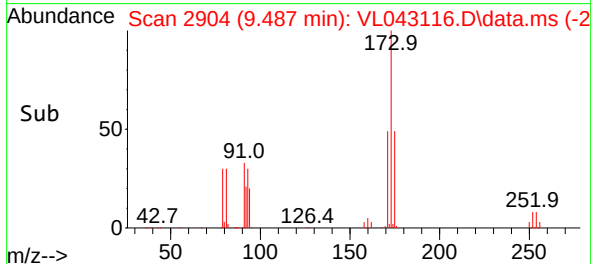
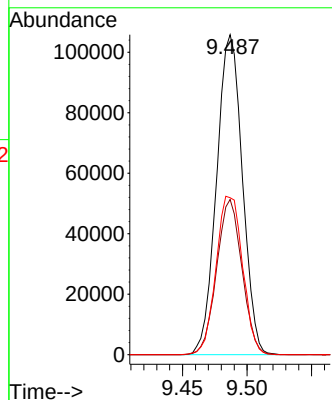
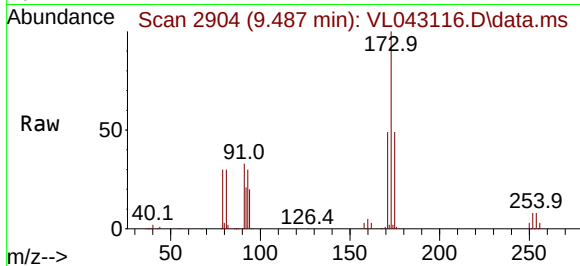




#49
Bromoform
Concen: 9.615 ppbv
RT: 9.487 min Scan# 2904
Delta R.T. -0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

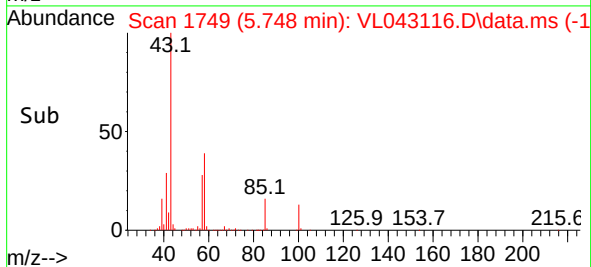
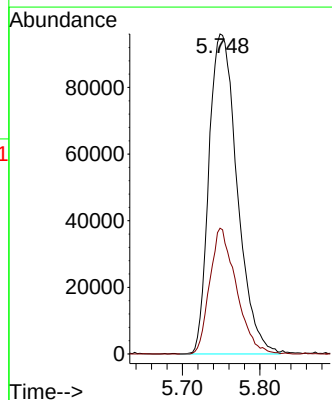
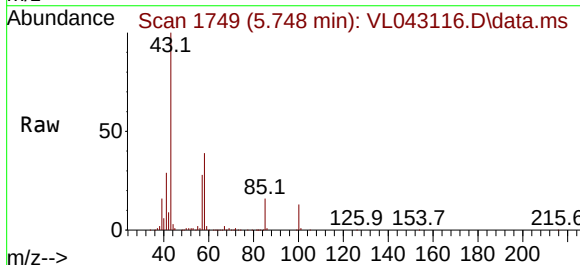
Instrument :
MSVOA_L
ClientSampleId :
VL1015ABS01

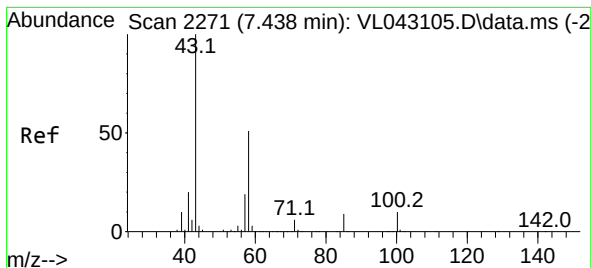
Tgt Ion:173 Resp: 146957
Ion Ratio Lower Upper
173 100
175 47.6 38.8 58.2
171 51.0 41.7 62.5



#50
4-Methyl-2-Pentanone
Concen: 8.680 ppbv
RT: 5.748 min Scan# 1749
Delta R.T. -0.007 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

Tgt Ion: 43 Resp: 243541
Ion Ratio Lower Upper
43 100
58 36.9 29.1 43.7





#51

2-Hexanone

Concen: 8.851 ppbv

RT: 7.438 min Scan# 21

Delta R.T. -0.000 min

Lab File: VL043116.D

Acq: 15 Oct 2025 10:15

Instrument :

MSVOA_L

ClientSampleId :

VL1015ABS01

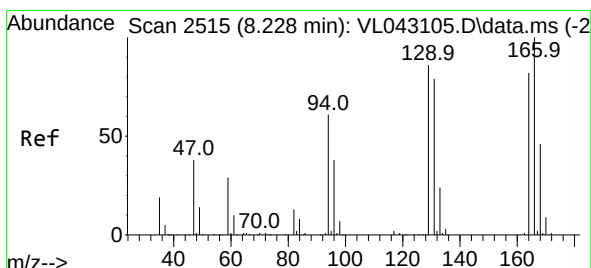
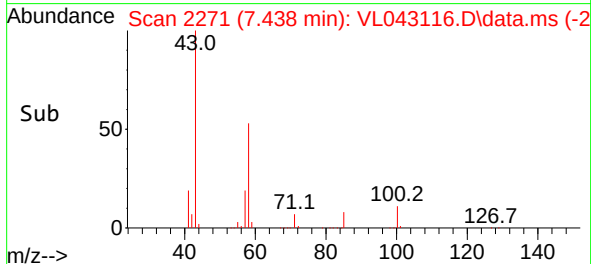
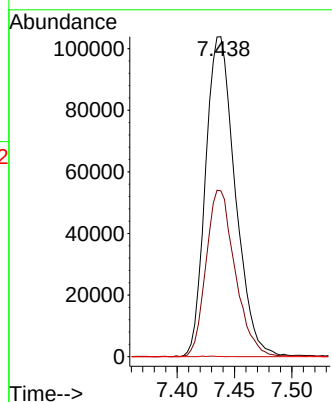
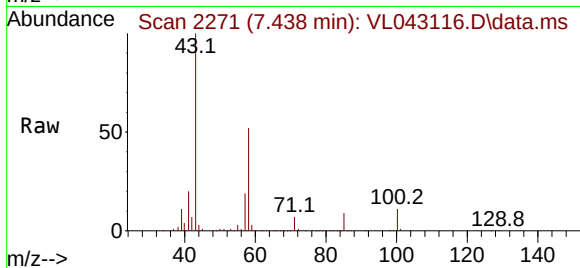
Tgt Ion: 43 Resp: 186283

Ion Ratio Lower Upper

43 100

58 51.2 40.4 60.6

98 0.1 0.1 0.1



#52

Tetrachloroethene

Concen: 8.704 ppbv

RT: 8.228 min Scan# 2515

Delta R.T. -0.000 min

Lab File: VL043116.D

Acq: 15 Oct 2025 10:15

Tgt Ion: 164 Resp: 89410

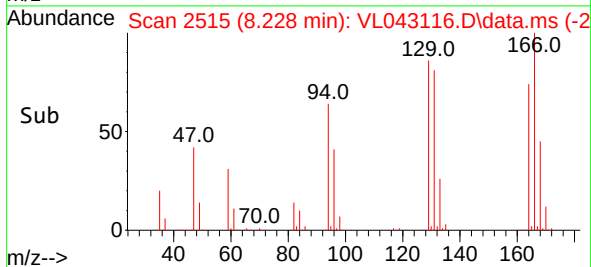
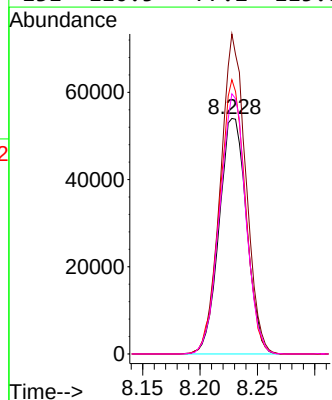
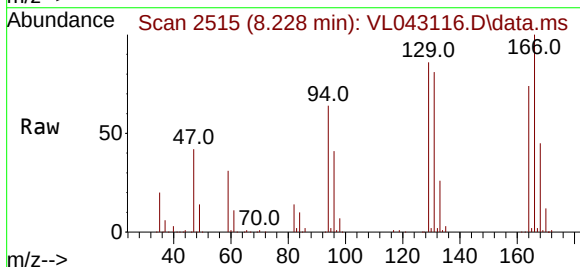
Ion Ratio Lower Upper

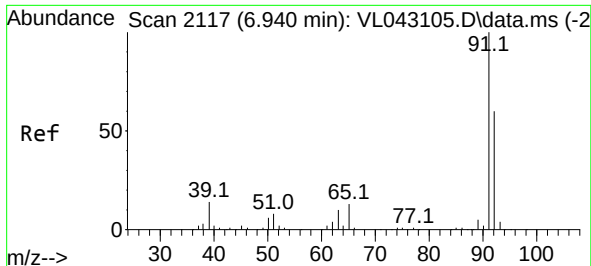
164 100

166 135.9 97.6 146.4

129 116.5 84.5 126.7

131 110.5 77.2 115.8

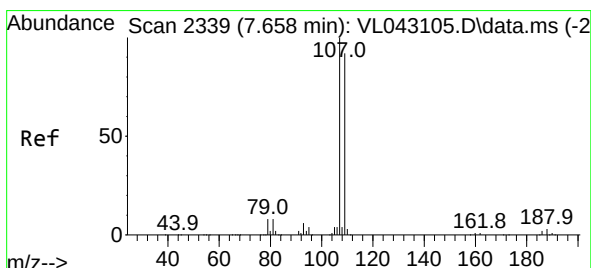
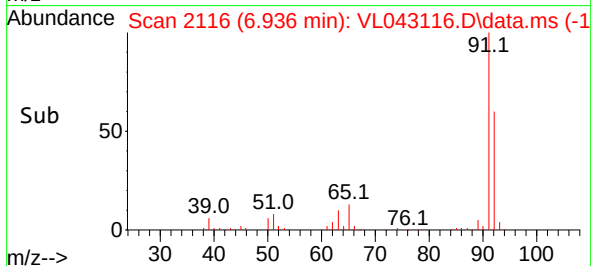
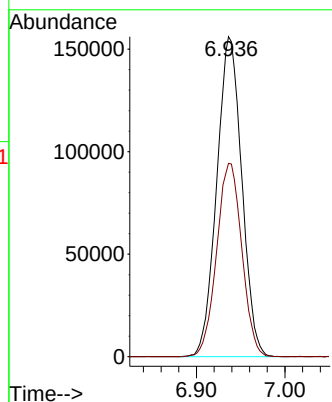
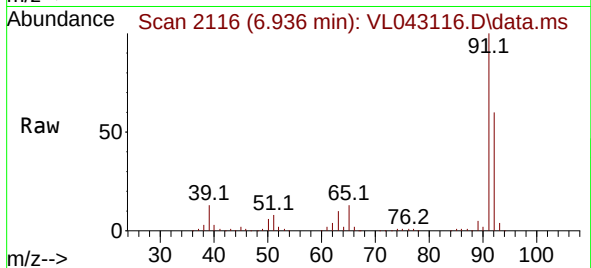




#53
Toluene
Concen: 9.072 ppbv
RT: 6.936 min Scan# 2117
Delta R.T. -0.004 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

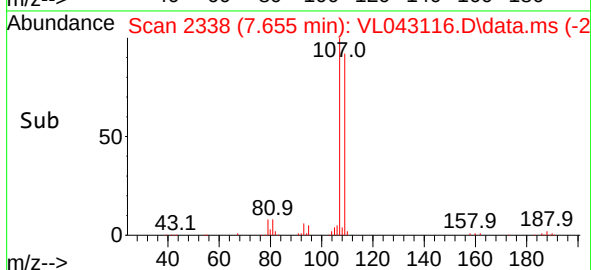
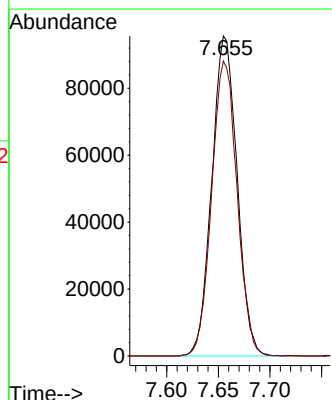
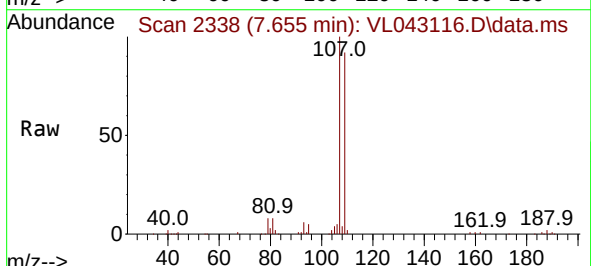
Instrument :
MSVOA_L
ClientSampleId :
VL1015ABS01

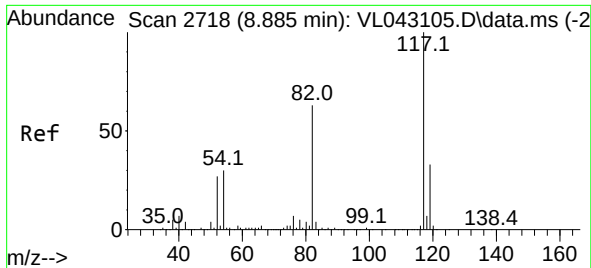
Tgt Ion: 91 Resp: 306729
Ion Ratio Lower Upper
91 100
92 60.8 48.8 73.2



#54
1,2-Dibromoethane
Concen: 9.226 ppbv
RT: 7.655 min Scan# 2338
Delta R.T. -0.003 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

Tgt Ion: 107 Resp: 162517
Ion Ratio Lower Upper
107 100
109 92.1 73.4 110.2

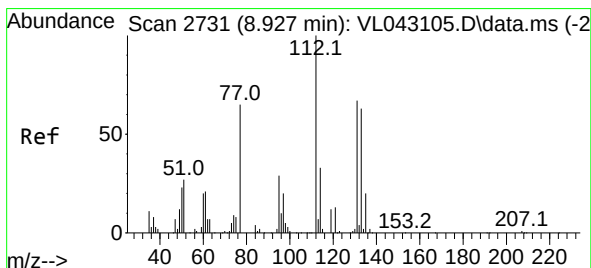
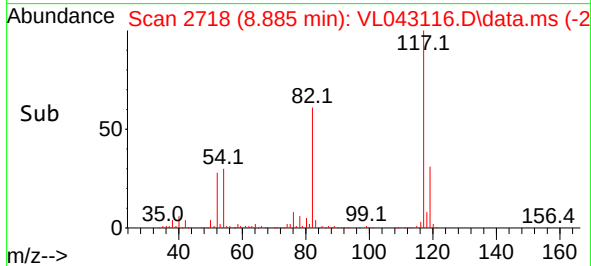
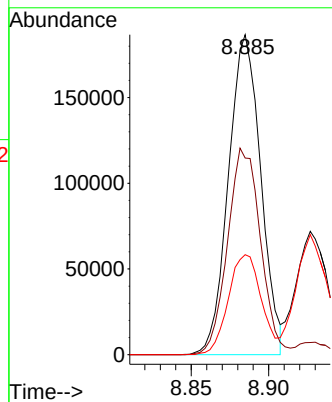
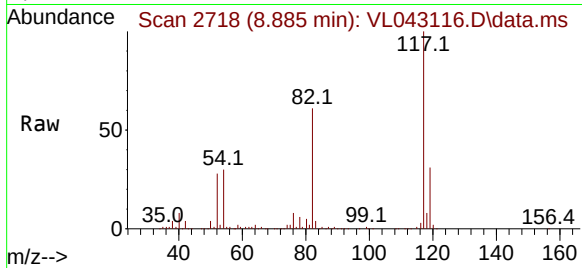




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. -0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

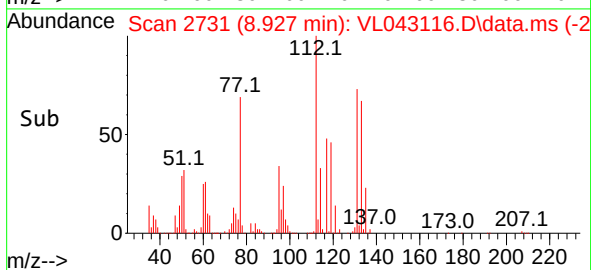
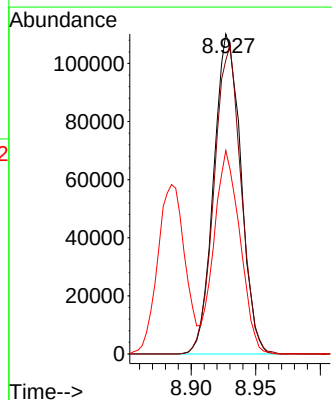
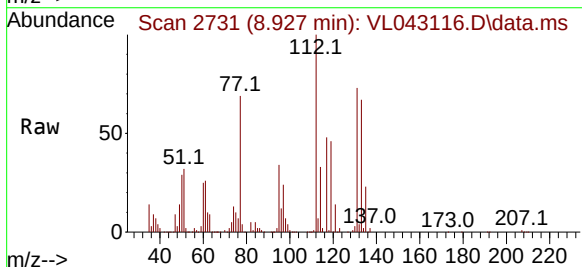
Instrument :
MSVOA_1
ClientSampleId :
VL1015ABS01

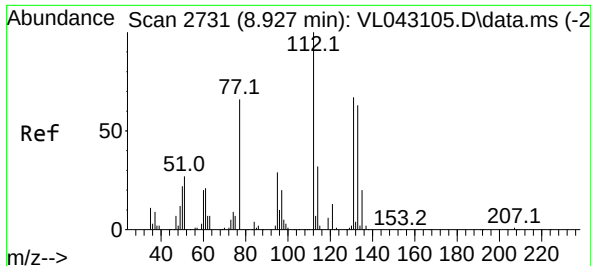
Tgt Ion:117 Resp: 271209
Ion Ratio Lower Upper
117 100
82 69.5 53.8 80.8
119 32.4 25.4 38.0



#56
1,1,1,2-Tetrachloroethane
Concen: 9.419 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. -0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

Tgt Ion:131 Resp: 161028
Ion Ratio Lower Upper
131 100
133 95.7 75.7 113.5
119 61.8 50.6 76.0

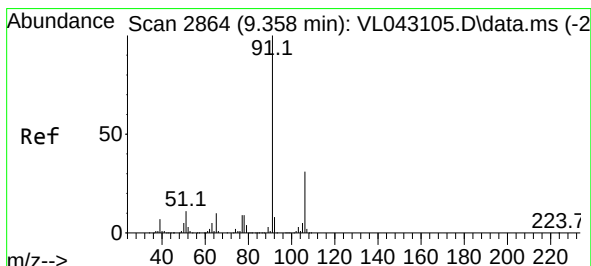
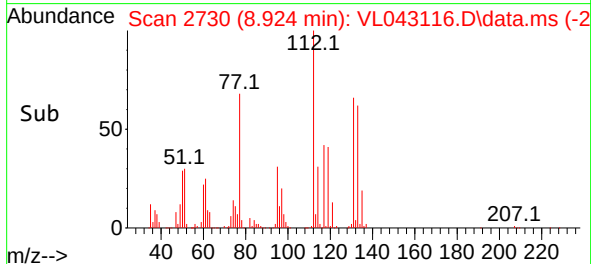
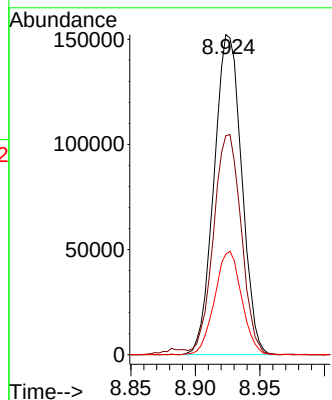
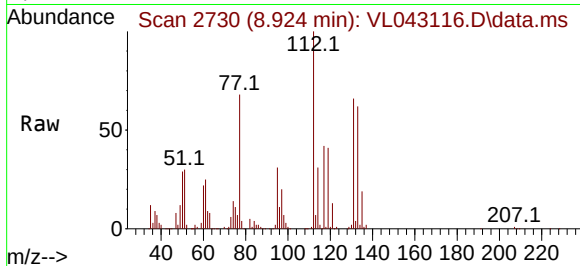




#57
Chlorobenzene
Concen: 8.946 ppbv
RT: 8.924 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

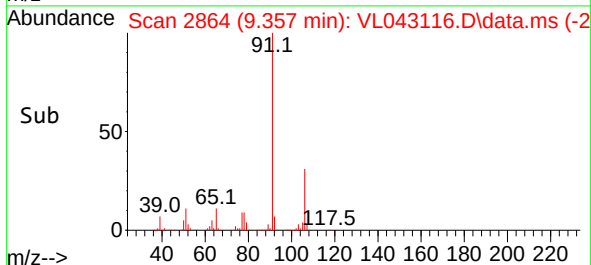
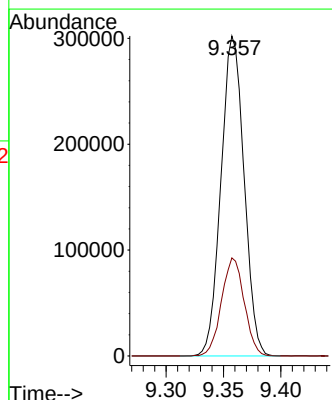
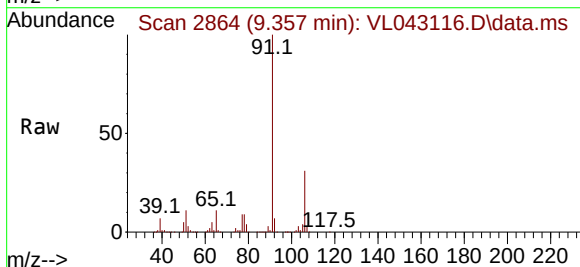
Instrument :
MSVOA_L
ClientSampleId :
VL1015ABS01

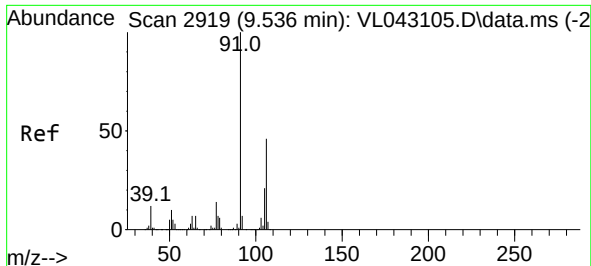
Tgt Ion:112 Resp: 226970
Ion Ratio Lower Upper
112 100
77 68.3 53.3 79.9
114 31.5 29.3 35.8



#58
Ethyl Benzene
Concen: 9.083 ppbv
RT: 9.357 min Scan# 2864
Delta R.T. -0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

Tgt Ion: 91 Resp: 422762
Ion Ratio Lower Upper
91 100
106 30.7 24.8 37.2





#59

m/p-Xylene

Concen: 9.700 ppbv

RT: 9.535 min Scan# 2919

Delta R.T. -0.000 min

Lab File: VL043116.D

Acq: 15 Oct 2025 10:15

Instrument :

MSVOA_1

ClientSampleId :

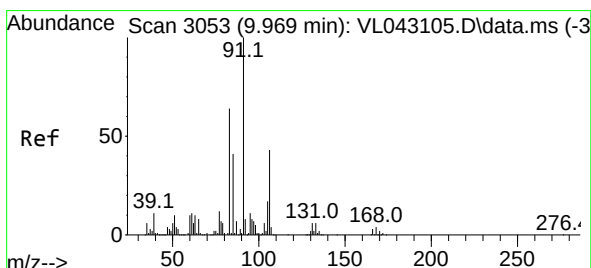
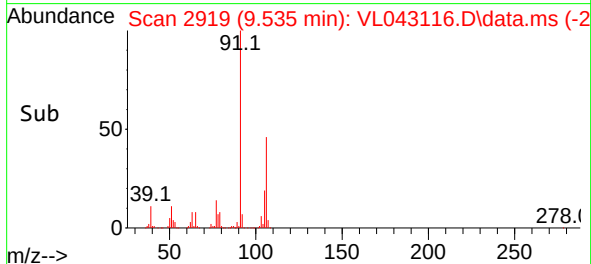
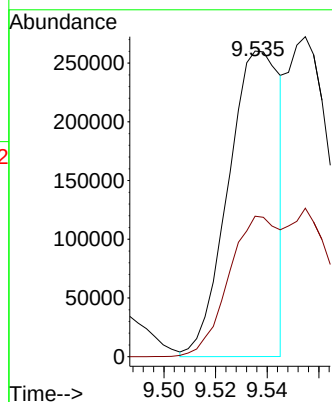
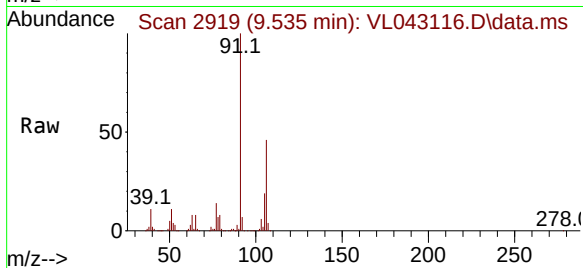
VL1015ABS01

Tgt Ion: 91 Resp: 360106

Ion Ratio Lower Upper

91 100

106 0.0 38.0 57.0#



#60

o-Xylene

Concen: 9.071 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. -0.003 min

Lab File: VL043116.D

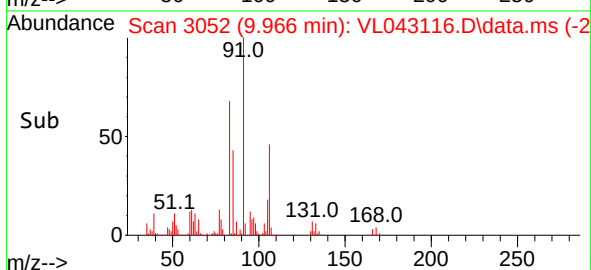
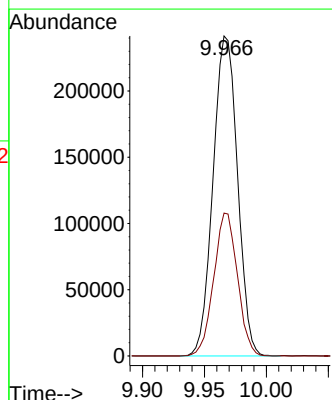
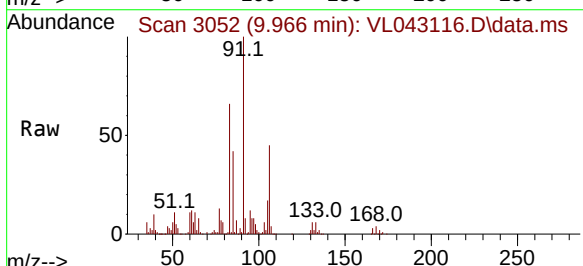
Acq: 15 Oct 2025 10:15

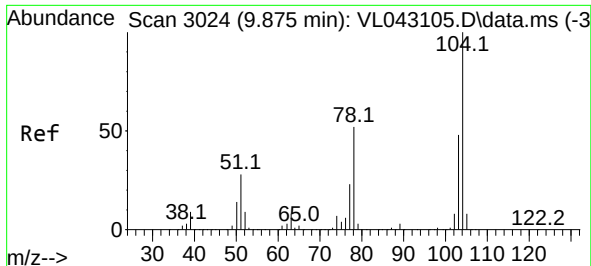
Tgt Ion: 91 Resp: 332591

Ion Ratio Lower Upper

91 100

106 43.2 21.9 65.8

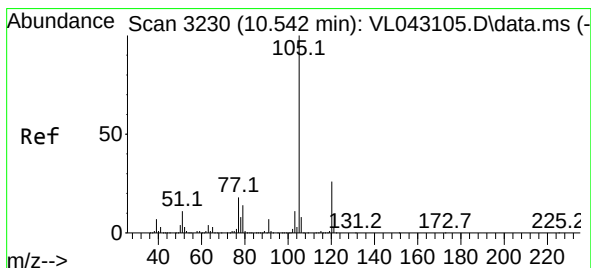
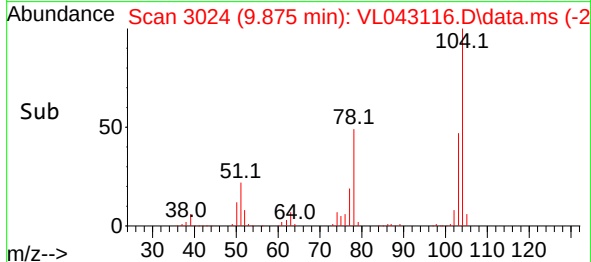
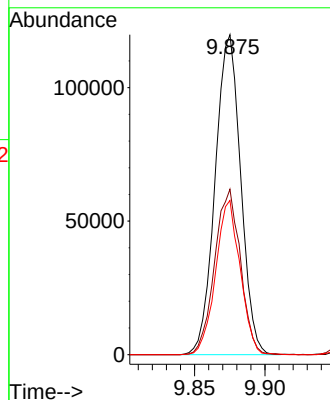
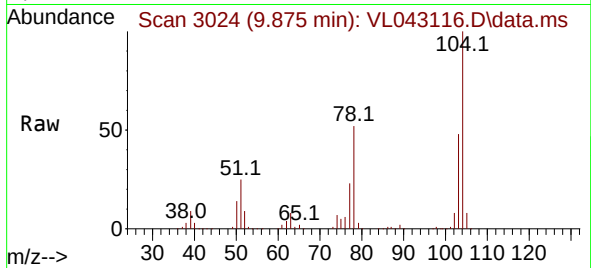




#61
Styrene
Concen: 9.161 ppbv
RT: 9.875 min Scan# 3024
Delta R.T. -0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

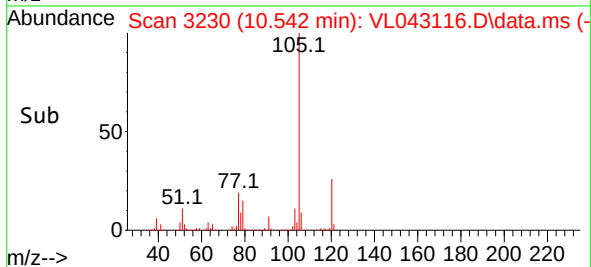
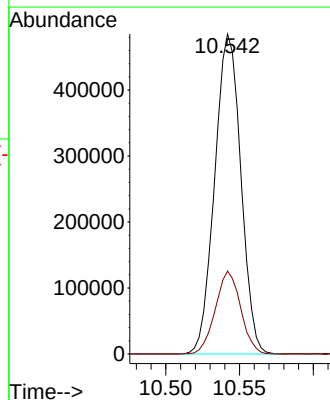
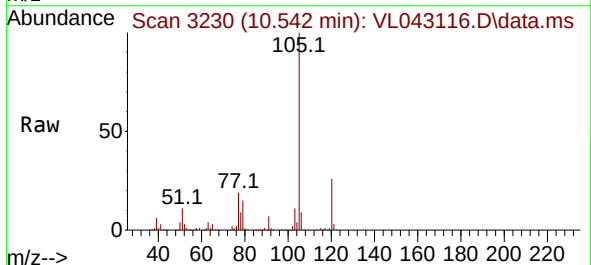
Instrument :
MSVOA_L
ClientSampleId :
VL1015ABS01

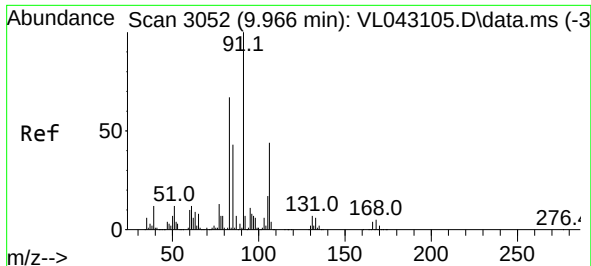
Tgt Ion:104 Resp: 151632
Ion Ratio Lower Upper
104 100
78 52.1 40.2 60.2
103 46.3 36.9 55.3



#62
Isopropylbenzene
Concen: 9.027 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. -0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

Tgt Ion:105 Resp: 598060
Ion Ratio Lower Upper
105 100
120 25.0 20.2 30.4

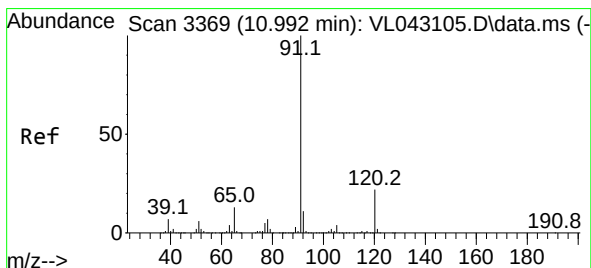
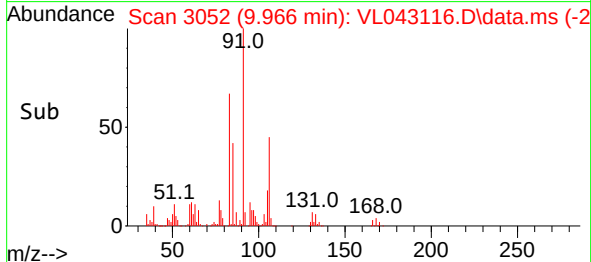
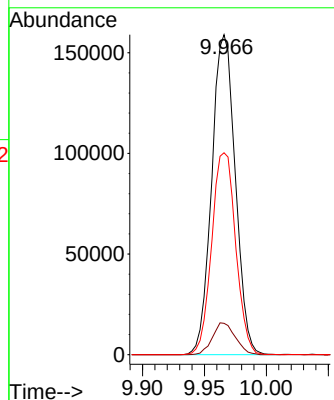
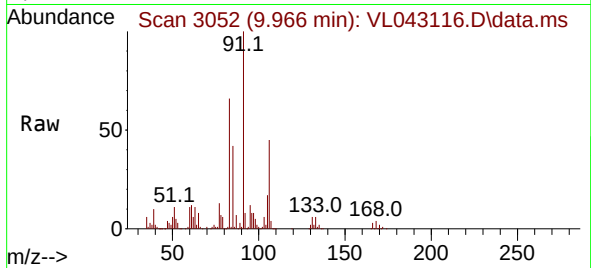




#63
1,1,2,2-Tetrachloroethane
Concen: 8.598 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. -0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

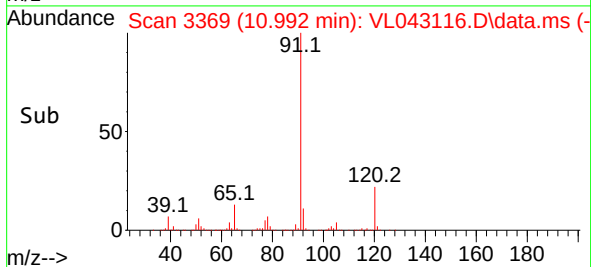
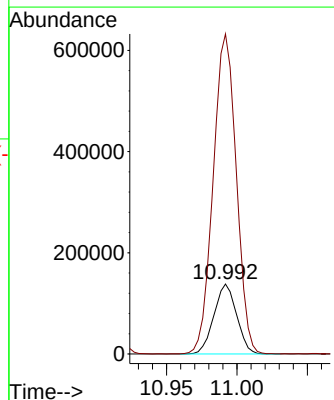
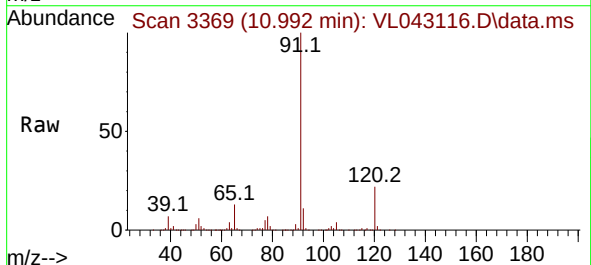
Instrument :
MSVOA_L
ClientSampleId :
VL1015ABS01

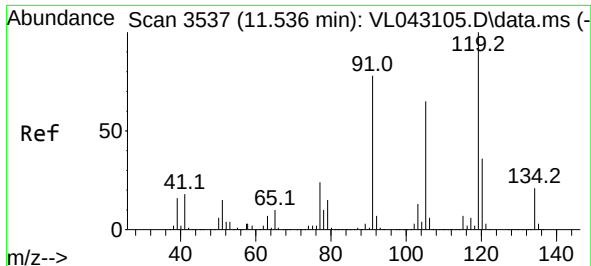
Tgt Ion: 83 Resp: 211101
Ion Ratio Lower Upper
83 100
131 9.6 4.8 14.3
85 64.2 32.0 96.0



#64
n-propylbenzene
Concen: 8.810 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. -0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

Tgt Ion: 120 Resp: 154542
Ion Ratio Lower Upper
120 100
91 467.1 361.6 542.4

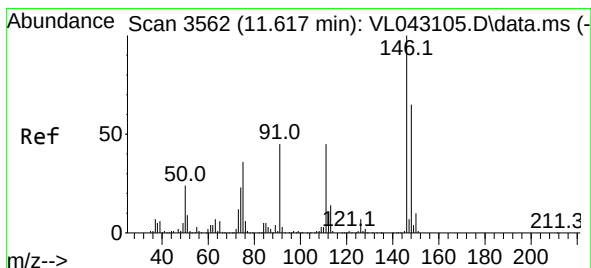
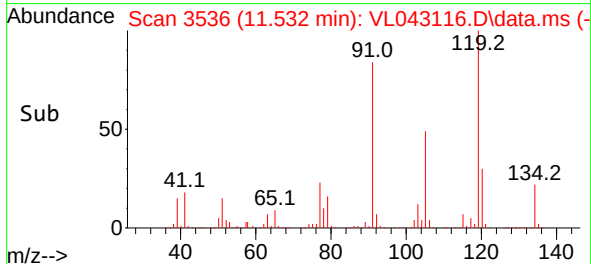
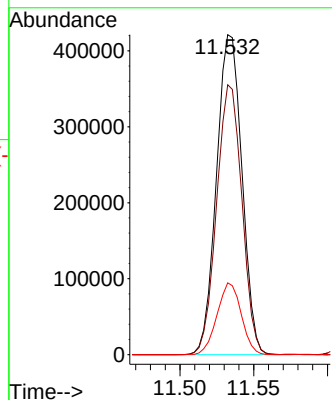
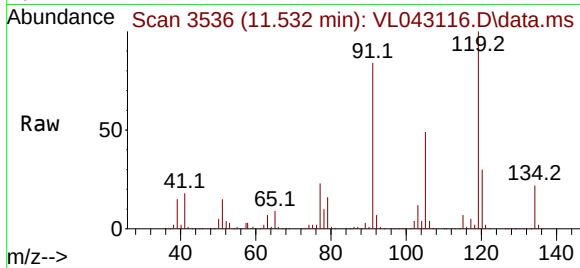




#65
tert-Butylbenzene
Concen: 8.650 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.003 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

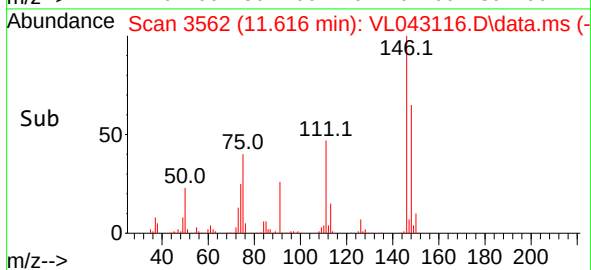
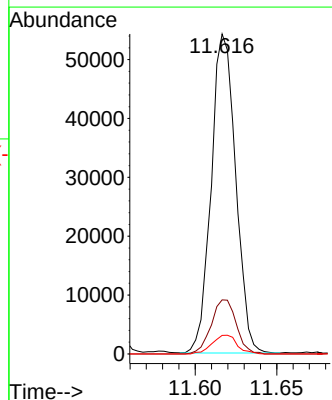
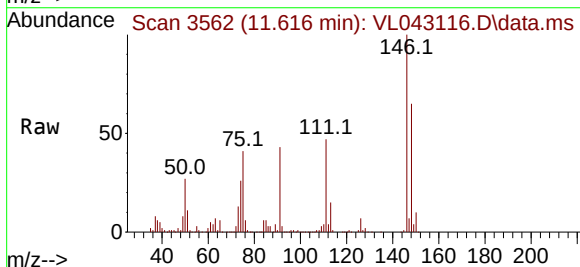
Instrument :
MSVOA_L
ClientSampleId :
VL1015ABS01

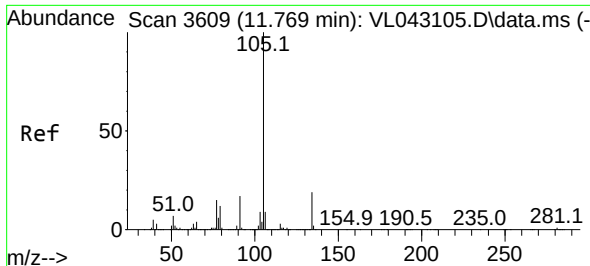
Tgt Ion:119 Resp: 506098
Ion Ratio Lower Upper
119 100
91 83.8 63.4 95.0
134 21.3 17.3 25.9



#66
Benzyl Chloride
Concen: 8.691 ppbv
RT: 11.616 min Scan# 3562
Delta R.T. -0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

Tgt Ion: 91 Resp: 56595
Ion Ratio Lower Upper
91 100
126 17.4 14.6 22.0
128 6.0 4.6 6.8

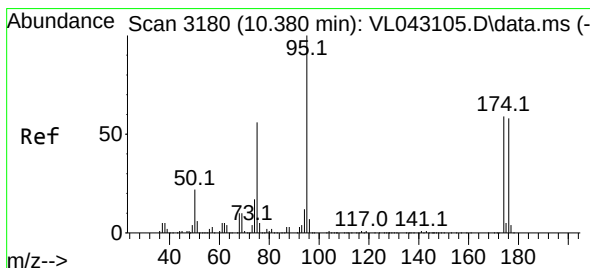
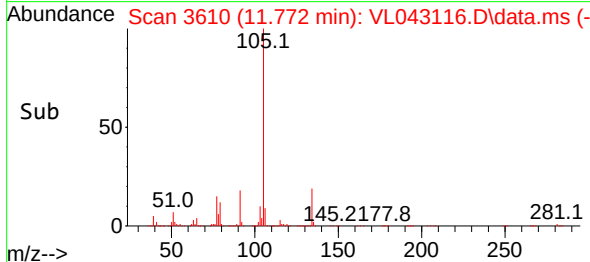
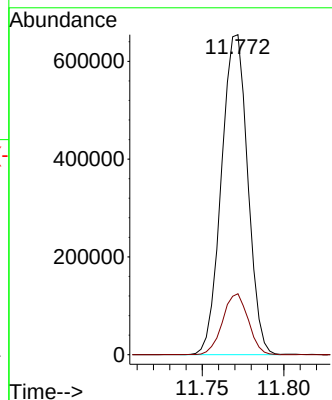
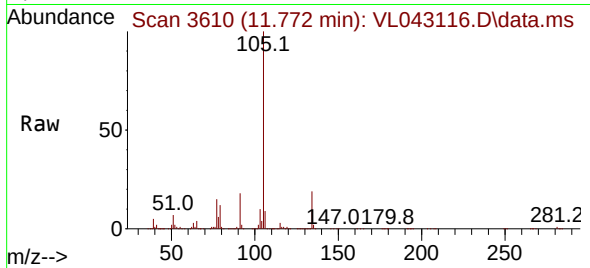




#67
 sec-Butylbenzene
 Concen: 8.836 ppbv
 RT: 11.772 min Scan# 3610
 Delta R.T. 0.003 min
 Lab File: VL043116.D
 Acq: 15 Oct 2025 10:15

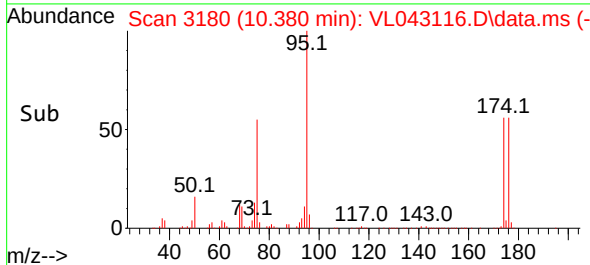
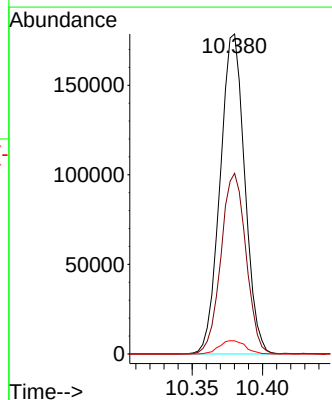
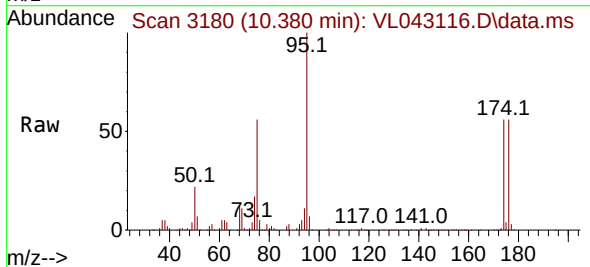
Instrument :
 MSVOA_1
 ClientSampleId :
 VL1015ABS01

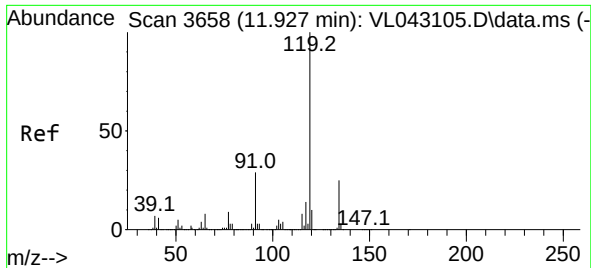
Tgt Ion:105 Resp: 733683
 Ion Ratio Lower Upper
 105 100
 134 18.6 15.5 23.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.302 ppbv
 RT: 10.380 min Scan# 3180
 Delta R.T. -0.000 min
 Lab File: VL043116.D
 Acq: 15 Oct 2025 10:15

Tgt Ion: 95 Resp: 217166
 Ion Ratio Lower Upper
 95 100
 174 57.4 48.3 72.5
 175 4.4 3.8 5.8

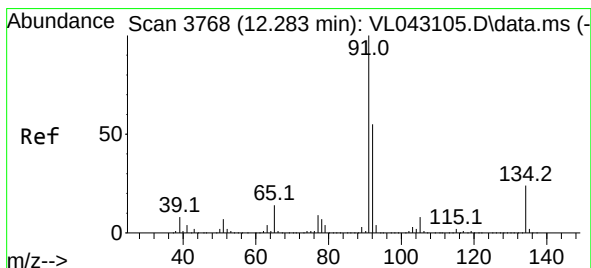
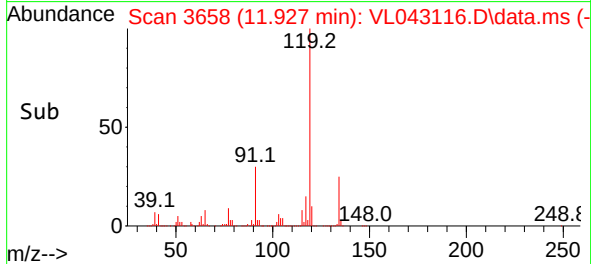
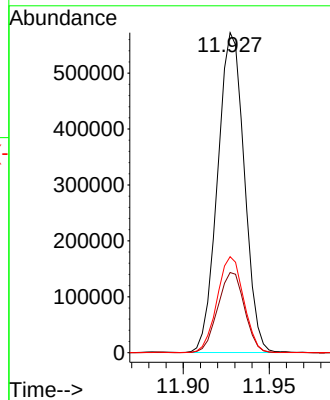
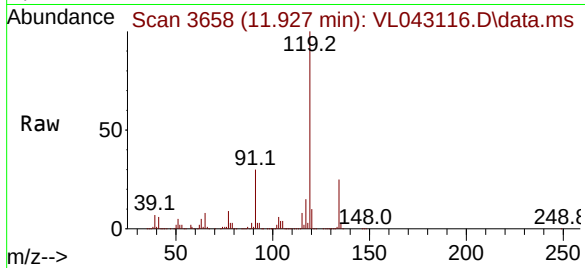




#69
 p-Isopropyltoluene
 Concen: 8.752 ppbv
 RT: 11.927 min Scan# 3658
 Delta R.T. -0.000 min
 Lab File: VL043116.D
 Acq: 15 Oct 2025 10:15

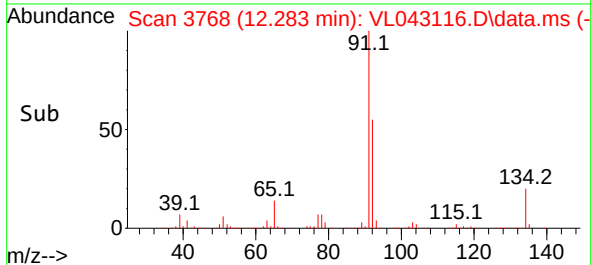
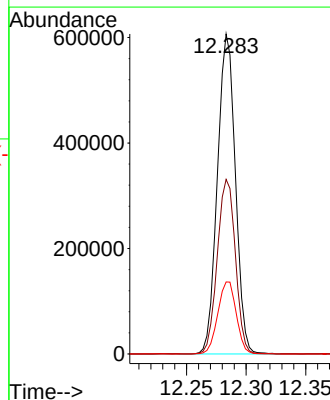
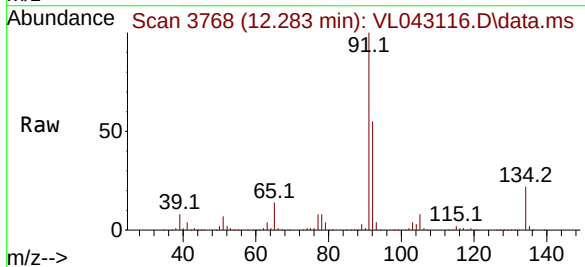
Instrument :
 MSVOA_1
 ClientSampleId :
 VL1015ABS01

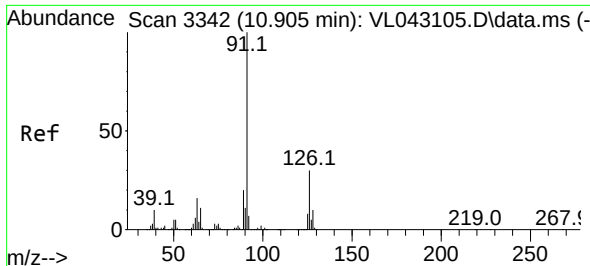
Tgt Ion:119 Resp: 617578
 Ion Ratio Lower Upper
 119 100
 134 25.2 20.3 30.5
 91 30.0 22.6 33.8



#70
 n-Butylbenzene
 Concen: 9.133 ppbv
 RT: 12.283 min Scan# 3768
 Delta R.T. -0.000 min
 Lab File: VL043116.D
 Acq: 15 Oct 2025 10:15

Tgt Ion: 91 Resp: 635054
 Ion Ratio Lower Upper
 91 100
 92 55.1 44.5 66.7
 134 23.2 19.3 28.9

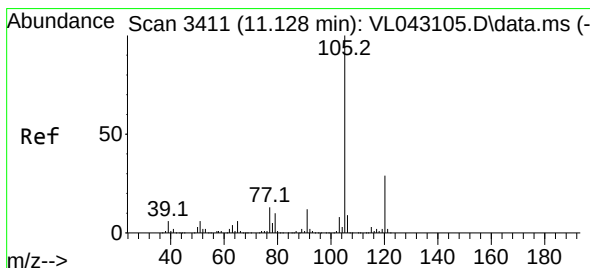
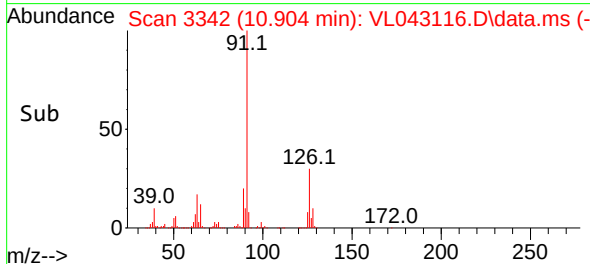
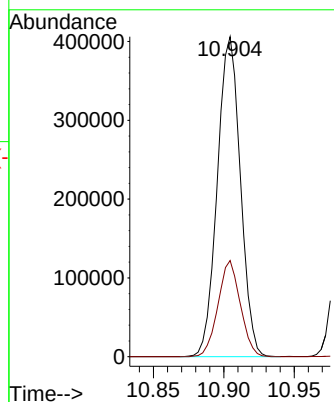
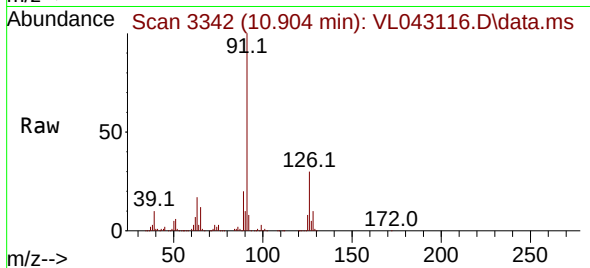




#71
2-Chlorotoluene
Concen: 9.185 ppbv
RT: 10.904 min Scan# 311
Delta R.T. -0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

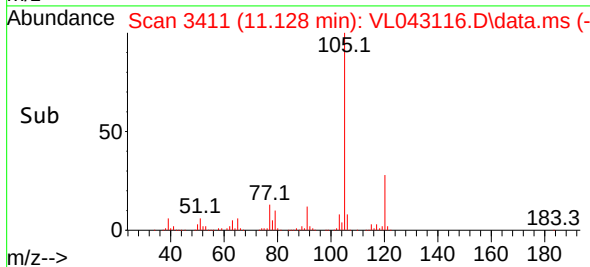
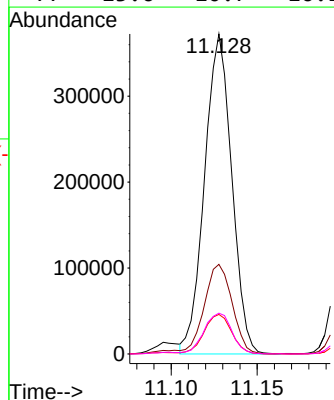
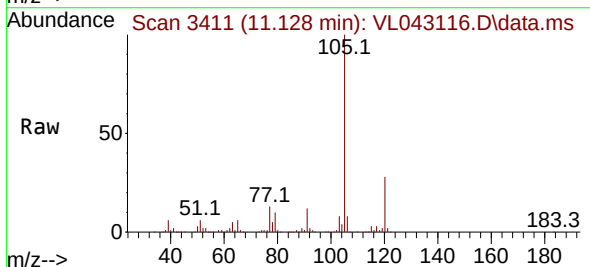
Instrument :
MSVOA_L
ClientSampleId :
VL1015ABS01

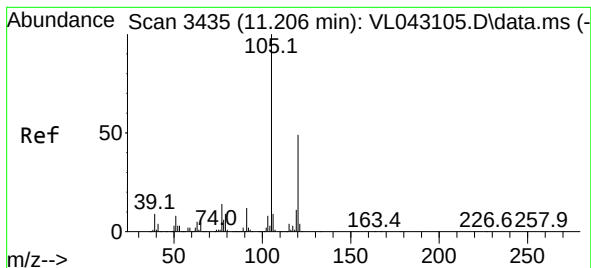
Tgt Ion: 91 Resp: 464145
Ion Ratio Lower Upper
91 100
126 29.0 12.0 48.0



#72
4-Ethyltoluene
Concen: 9.067 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. -0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

Tgt Ion:105 Resp: 408784
Ion Ratio Lower Upper
105 100
120 29.7 24.2 36.4
91 13.1 10.0 15.0
77 13.6 10.7 16.1





#73

1,3,5-Trimethylbenzene

Concen: 9.245 ppbv

RT: 11.205 min Scan# 3435

Delta R.T. -0.000 min

Lab File: VL043116.D

Acq: 15 Oct 2025 10:15

Instrument :

MSVOA_L

ClientSampleId :

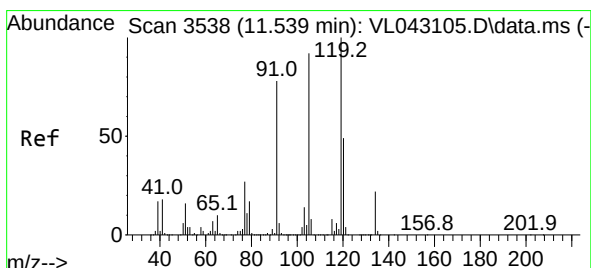
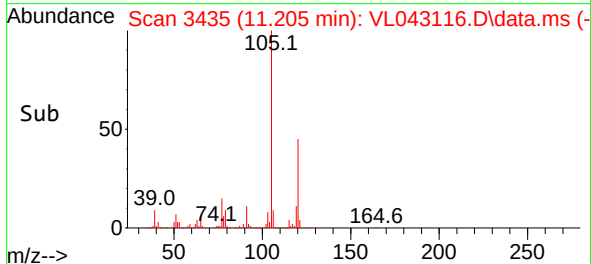
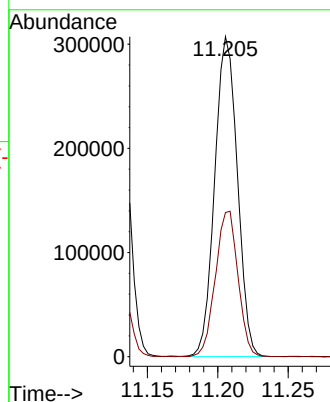
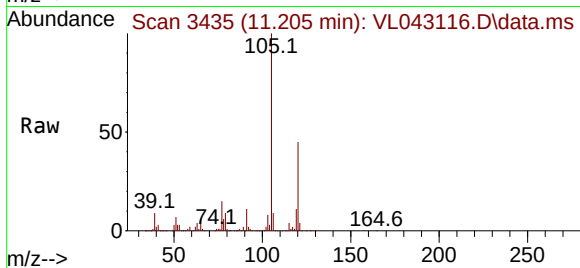
VL1015ABS01

Tgt Ion:105 Resp: 343757

Ion Ratio Lower Upper

105 100

120 45.0 39.0 58.6



#74

1,2,4-Trimethylbenzene

Concen: 8.764 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. -0.000 min

Lab File: VL043116.D

Acq: 15 Oct 2025 10:15

Tgt Ion:105 Resp: 364645

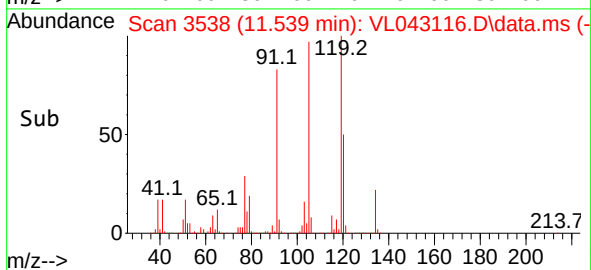
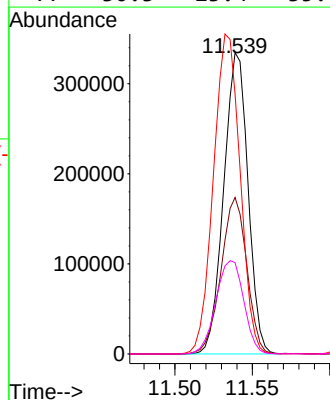
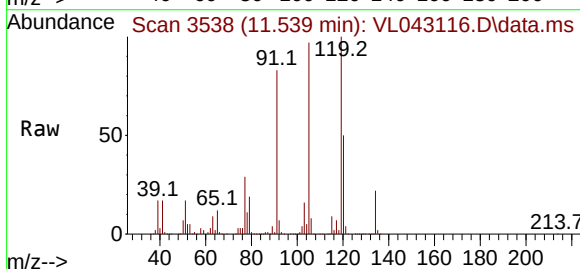
Ion Ratio Lower Upper

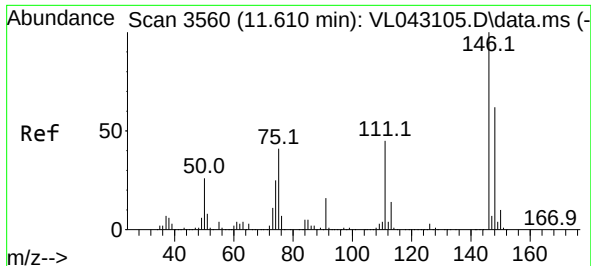
105 100

120 51.9 42.8 64.2

91 86.2 68.3 102.5

77 30.3 23.4 35.0

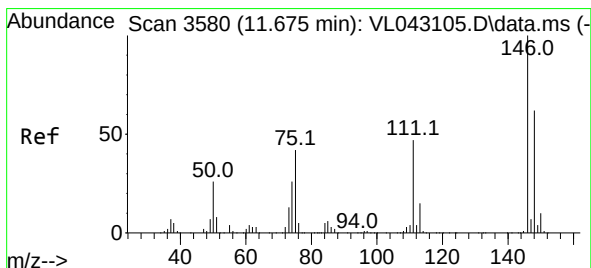
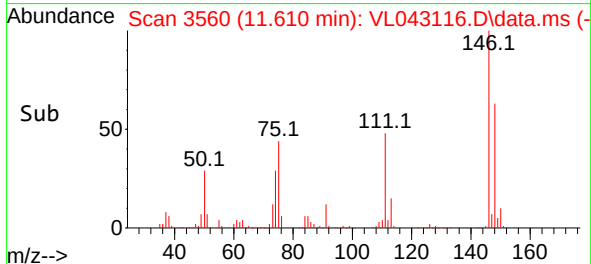
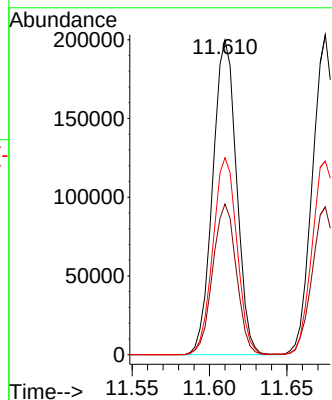
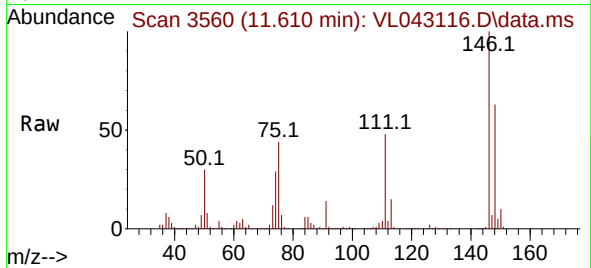




#75
1,3-Dichlorobenzene
Concen: 8.833 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. -0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

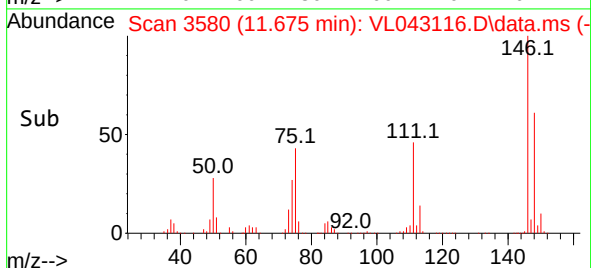
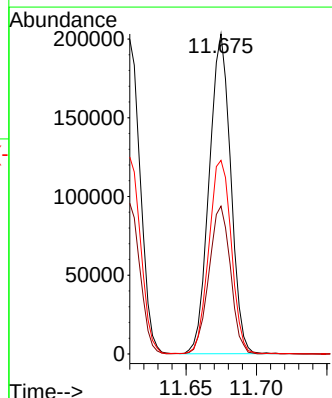
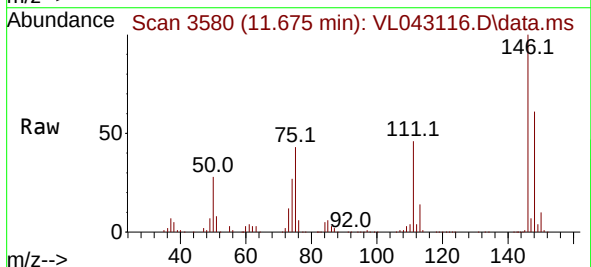
Instrument :
MSVOA_1
ClientSampleId :
VL1015ABS01

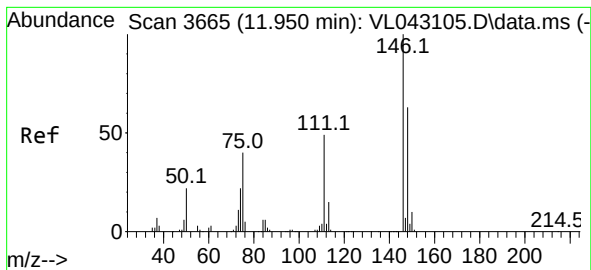
Tgt Ion:146 Resp: 213175
Ion Ratio Lower Upper
146 100
111 47.6 23.3 69.9
148 63.2 31.6 95.0



#76
1,4-Dichlorobenzene
Concen: 8.843 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. -0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

Tgt Ion:146 Resp: 215187
Ion Ratio Lower Upper
146 100
111 46.7 22.4 67.0
148 63.6 31.6 94.7





#77

1,2-Dichlorobenzene

Concen: 8.581 ppbv

RT: 11.950 min Scan# 3665

Delta R.T. -0.000 min

Lab File: VL043116.D

Acq: 15 Oct 2025 10:15

Instrument :

MSVOA_L

ClientSampleId :

VL1015ABS01

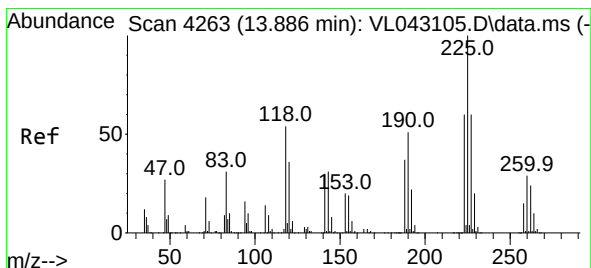
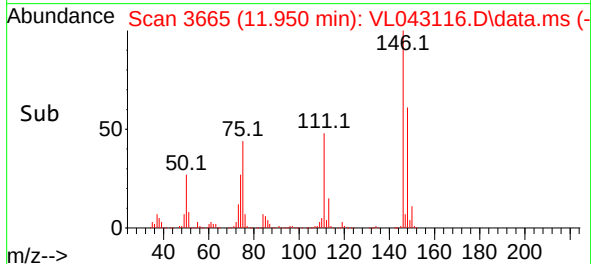
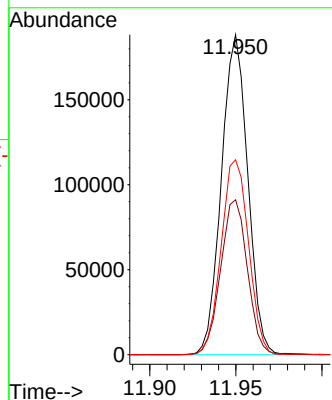
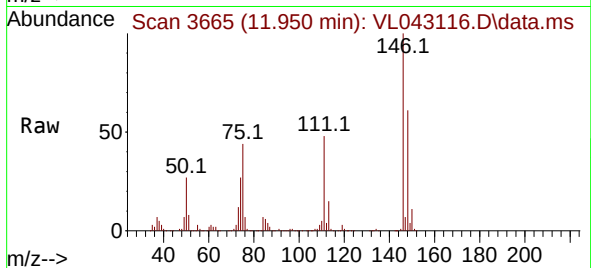
Tgt Ion:146 Resp: 200329

Ion Ratio Lower Upper

146 100

111 49.3 24.0 72.0

148 63.5 31.1 93.3



#78

Hexachloro-1,3-Butadiene

Concen: 7.945 ppbv

RT: 13.882 min Scan# 4262

Delta R.T. -0.003 min

Lab File: VL043116.D

Acq: 15 Oct 2025 10:15

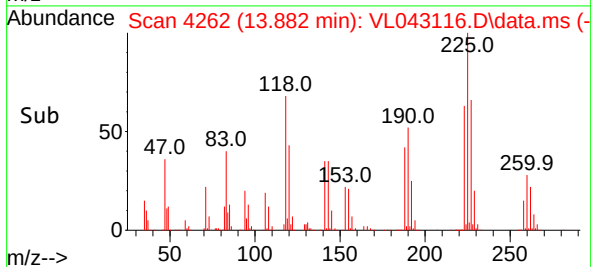
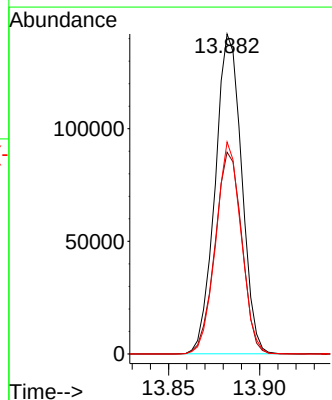
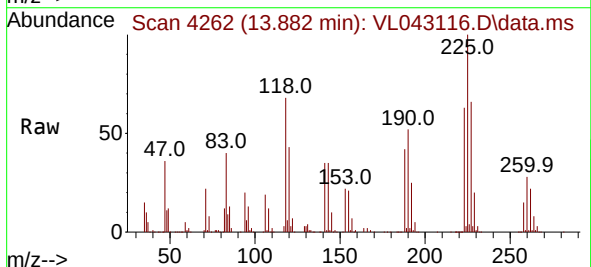
Tgt Ion:225 Resp: 143609

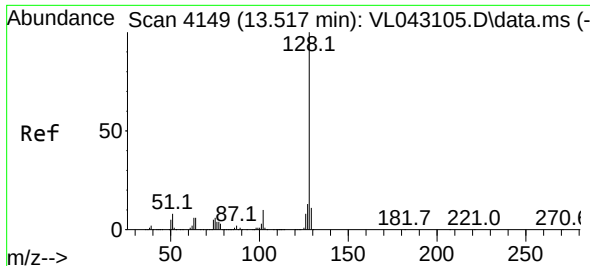
Ion Ratio Lower Upper

225 100

223 63.7 50.2 75.4

227 63.6 49.6 74.4

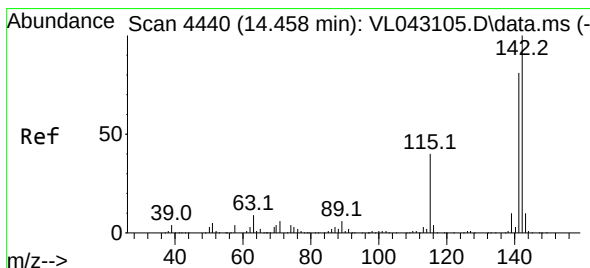
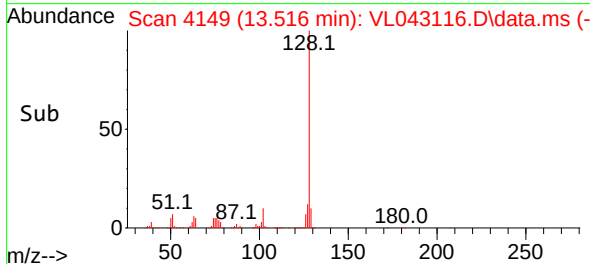
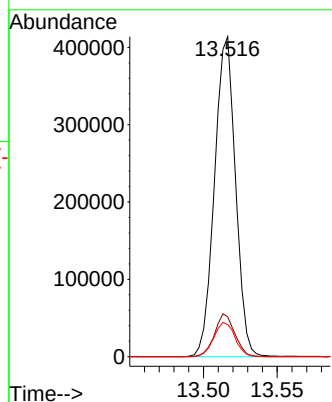
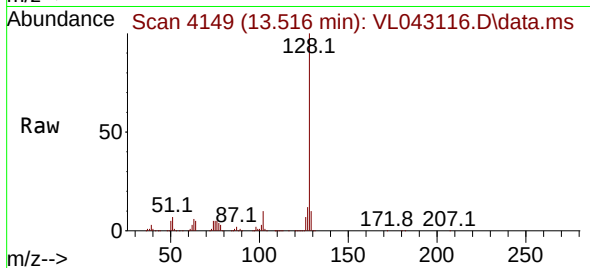




#79
Naphthalene
Concen: 9.429 ppbv
RT: 13.516 min Scan# 4149
Delta R.T. -0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

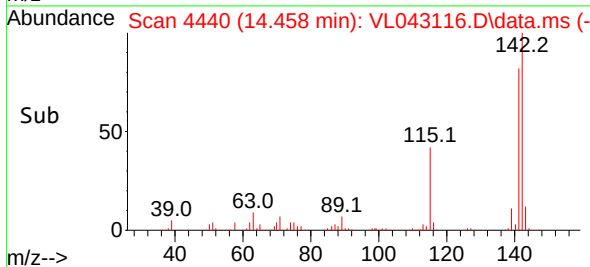
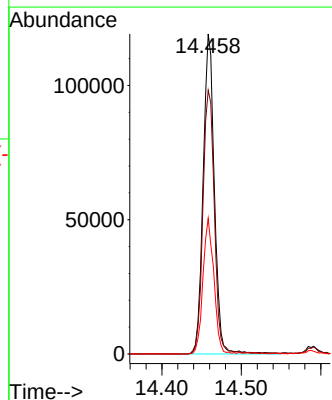
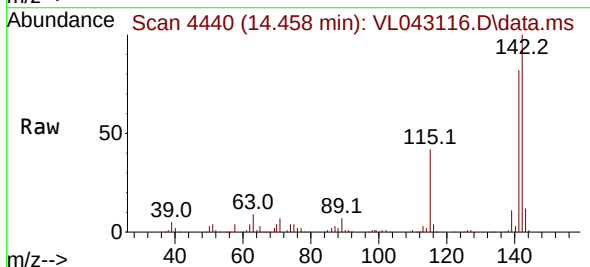
Instrument :
MSVOA_L
ClientSampleId :
VL1015ABS01

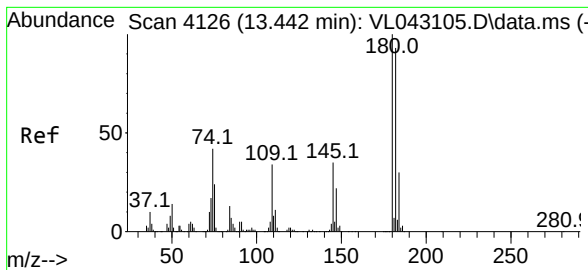
Tgt Ion:128 Resp: 410097
Ion Ratio Lower Upper
128 100
127 12.5 10.5 15.7
129 10.0 9.1 13.7



#80
Naphthalene,2-methyl-
Concen: 10.387 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. -0.000 min
Lab File: VL043116.D
Acq: 15 Oct 2025 10:15

Tgt Ion:142 Resp: 117693
Ion Ratio Lower Upper
142 100
141 84.9 64.6 97.0
115 42.0 30.2 45.4

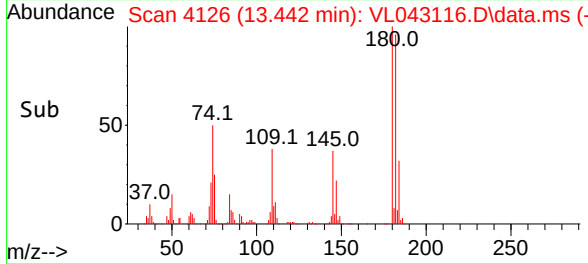
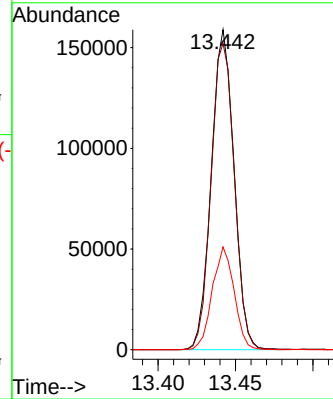
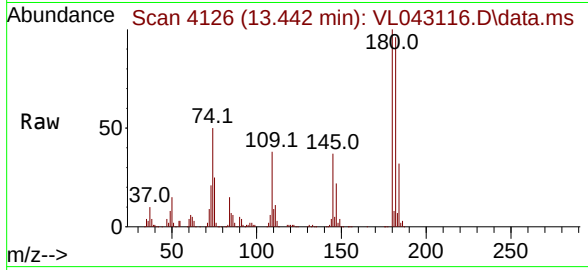




#81
 1,2,4-Trichlorobenzene
 Concen: 8.987 ppbv
 RT: 13.442 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL043116.D
 Acq: 15 Oct 2025 10:15

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1015ABS01

Tgt Ion:180 Resp: 162229
 Ion Ratio Lower Upper
 180 100
 182 98.0 75.5 113.3
 184 30.9 23.9 35.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101525\
 Data File : VL043122.D
 Acq On : 15 Oct 2025 15:57
 Operator : SY/MD
 Sample : VL1015ABSD01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1015ABSD01

Quant Time: Oct 16 01:19:11 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 02:12:58 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	91615	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	294311	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	260330	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	212144	10.484	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.800%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	146031	11.212	ppbv	100
3) Chlorodifluoromethane	1.479	51	132400	9.396	ppbv	93
4) Chloromethane	1.538	50	49080	9.512	ppbv	98
5) Vinyl Chloride	1.583	62	50236	9.926	ppbv	97
6) Bromomethane	1.670	94	29349	10.576	ppbv	99
7) Chloroethane	1.709	64	19982	9.657	ppbv	99
8) Dichlorotetrafluoroethane	1.557	85	112911	10.726	ppbv	97
9) Propene	1.486	41	48992	7.839	ppbv	98
10) Heptane	4.991	43	146679	8.152	ppbv	97
11) Trichlorofluoromethane	1.881	101	153762	12.069	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.146	101	115644	11.275	ppbv	96
13) Ethanol	1.725	45	17793	7.696	ppbv	94
14) Bromoethene	1.787	108	41213	10.816	ppbv	99
15) Acetone	1.839	43	118839	9.624	ppbv	97
16) 1,3-Butadiene	1.612	39	55311	9.399	ppbv	98
17) tert-Butyl alcohol	2.043	59	174619	10.302	ppbv	98
18) 1,1-Dichloroethene	2.039	96	51012	11.408	ppbv	87
19) Isopropyl Alcohol	1.887	45	73121	9.508	ppbv	99
20) Methylene Chloride	2.065	84	44858	9.190	ppbv	89
21) Allyl Chloride	2.101	41	90557	9.952	ppbv	91
22) trans-1,2-Dichloroethene	2.347	96	56333	10.539	ppbv	97
23) Vinyl Acetate	2.467	43	177669	9.822	ppbv	98
24) 1,1-Dichloroethane	2.415	63	113663	11.006	ppbv	99
25) Ethyl Acetate	2.839	43	271918	8.880	ppbv	99
26) Hexane	2.832	57	126655	8.976	ppbv	97
27) Carbon Disulfide	2.156	76	137853	10.663	ppbv	99
28) Methyl tert-Butyl Ether	2.444	73	69446	10.818	ppbv	96
29) Chloroform	2.855	83	214588	10.496	ppbv	100
30) Cyclohexane	3.865	84	112065	9.100	ppbv	92
31) cis-1,2-Dichloroethene	2.725	61	137648	10.216	ppbv	99
32) 1,1,1-Trichloroethane	3.376	97	226398	10.634	ppbv	99
34) 2-Butanone	2.560	43	180212	9.109	ppbv	96
35) Carbon Tetrachloride	3.771	117	228771	10.811	ppbv	96
36) Benzene	3.664	78	261070	9.418	ppbv	96
37) 1,2-Dichloroethane	3.224	62	171136	10.717	ppbv #	95
38) Trichloroethene	4.557	130	102021	8.813	ppbv	94
39) 1,2-Dichloropropane	4.321	63	91417	9.021	ppbv	94
40) 1,4-Dioxane	4.590	88	41071	9.057	ppbv #	96
41) Tetrahydrofuran	3.056	42	89968	8.131	ppbv	92
42) Bromodichloromethane	4.499	83	233460	10.563	ppbv	99
43) Methyl Methacrylate	4.888	69	127541	9.059	ppbv	98
44) 2,2,4-Trimethylpentane	4.651	57	414817	8.870	ppbv	98
45) t-1,3-Dichloropropene	6.425	75	138082	9.773	ppbv	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101525\
 Data File : VL043122.D
 Acq On : 15 Oct 2025 15:57
 Operator : SY/MD
 Sample : VL1015ABSD01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

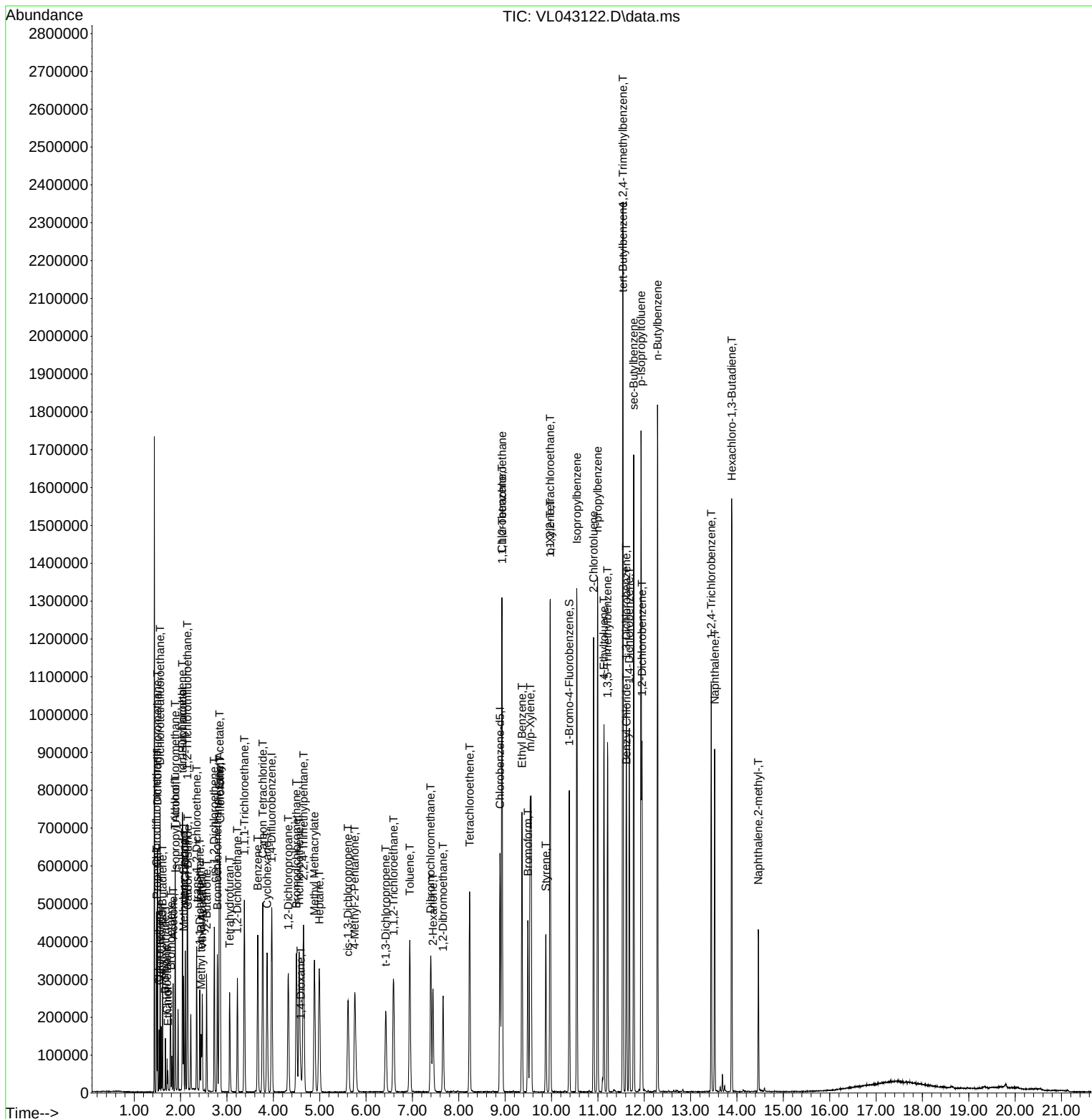
Instrument :
 MSVOA_L
 ClientSampleId :
 VL1015ABSD01

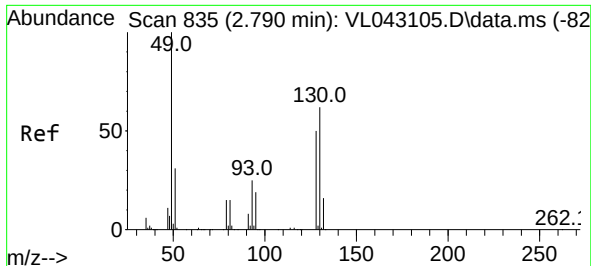
Quant Time: Oct 16 01:19:11 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 02:12:58 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	158488	9.390	ppbv	93
47) 1,1,2-Trichloroethane	6.593	97	102387	9.356	ppbv	93
48) Dibromochloromethane	7.393	129	183501	10.029	ppbv	98
49) Bromoform	9.490	173	150248	10.102	ppbv	100
50) 4-Methyl-2-Pentanone	5.755	43	233019	8.535	ppbv	98
51) 2-Hexanone	7.444	43	182931	8.933	ppbv #	100
52) Tetrachloroethene	8.234	164	88818	8.885	ppbv	93
53) Toluene	6.943	91	298271	9.066	ppbv	99
54) 1,2-Dibromoethane	7.661	107	162018	9.452	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.933	131	165501	10.085	ppbv	96
57) Chlorobenzene	8.930	112	225547	9.261	ppbv	95
58) Ethyl Benzene	9.364	91	432119	9.672	ppbv	96
59) m/p-Xylene	9.542	91	353747	9.927	ppbv #	29
60) o-Xylene	9.972	91	339885	9.657	ppbv	97
61) Styrene	9.875	104	149479	9.408	ppbv	97
62) Isopropylbenzene	10.545	105	618625	9.727	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.969	83	211262	8.964	ppbv	97
64) n-propylbenzene	10.995	120	156132	9.273	ppbv	91
65) tert-Butylbenzene	11.539	119	516711	9.200	ppbv	94
66) Benzyl Chloride	11.620	91	54290	8.686	ppbv	98
67) sec-Butylbenzene	11.772	105	747469	9.378	ppbv	98
69) p-Isopropyltoluene	11.930	119	628190	9.275	ppbv	97
70) n-Butylbenzene	12.286	91	656970	9.843	ppbv	98
71) 2-Chlorotoluene	10.908	91	475356	9.800	ppbv	97
72) 4-Ethyltoluene	11.131	105	421655	9.743	ppbv	97
73) 1,3,5-Trimethylbenzene	11.209	105	350402	9.818	ppbv	95
74) 1,2,4-Trimethylbenzene	11.542	105	376592	9.429	ppbv	95
75) 1,3-Dichlorobenzene	11.613	146	220504	9.519	ppbv	99
76) 1,4-Dichlorobenzene	11.678	146	220451	9.438	ppbv	97
77) 1,2-Dichlorobenzene	11.953	146	205757	9.182	ppbv	98
78) Hexachloro-1,3-Butadiene	13.889	225	148058	8.533	ppbv	98
79) Naphthalene	13.520	128	422818	10.128	ppbv	99
80) Naphthalene,2-methyl-	14.461	142	120171	11.049	ppbv	97
81) 1,2,4-Trichlorobenzene	13.445	180	168366	9.717	ppbv	99

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

Quant Time: Oct 16 01:19:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration

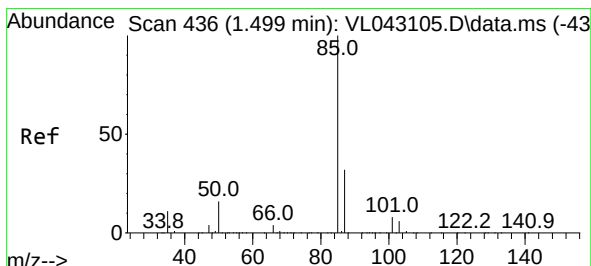
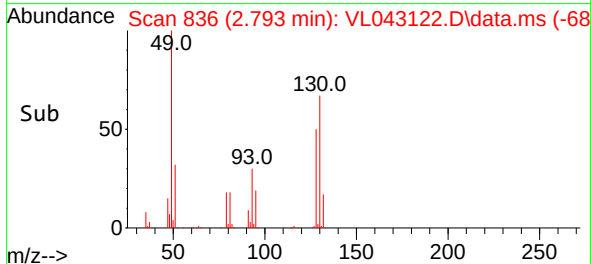
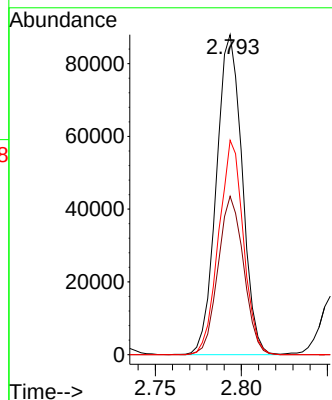
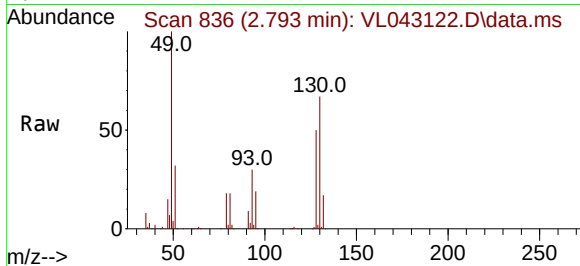




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

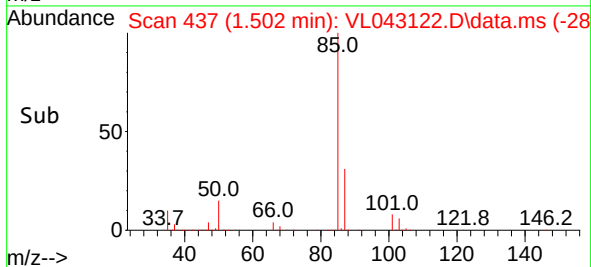
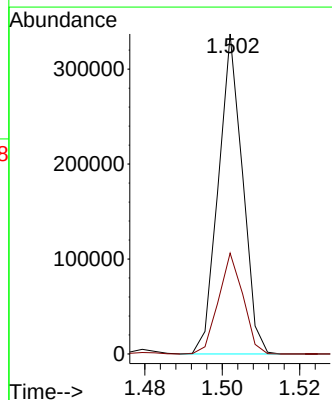
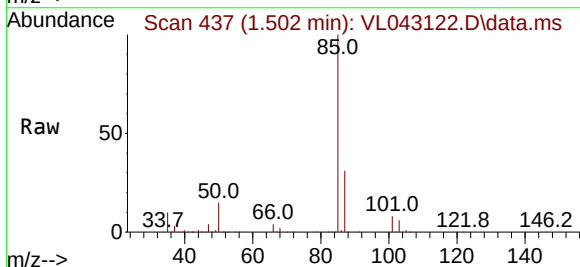
Instrument :
MSVOA_L
ClientSampleId :
VL1015ABSD01

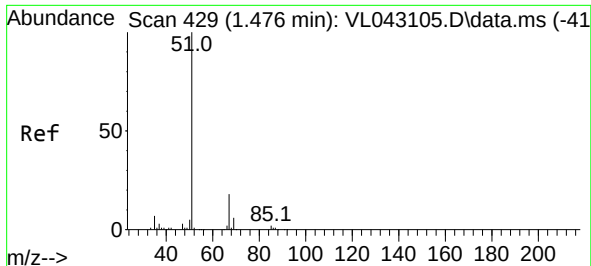
Tgt Ion: 49 Resp: 91615
Ion Ratio Lower Upper
49 100
128 49.1 24.4 73.4
130 64.2 31.0 93.0



#2
Dichlorodifluoromethane
Concen: 11.212 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

Tgt Ion: 85 Resp: 146031
Ion Ratio Lower Upper
85 100
87 31.5 25.3 37.9

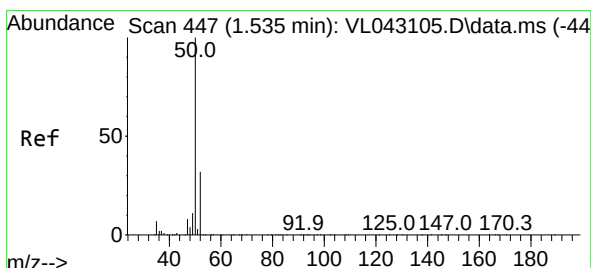
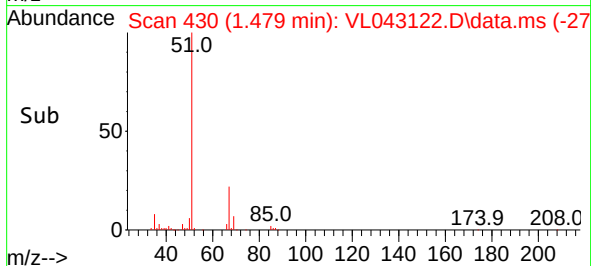
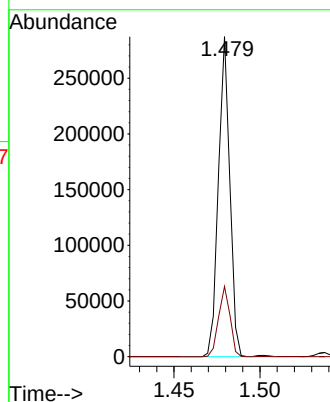
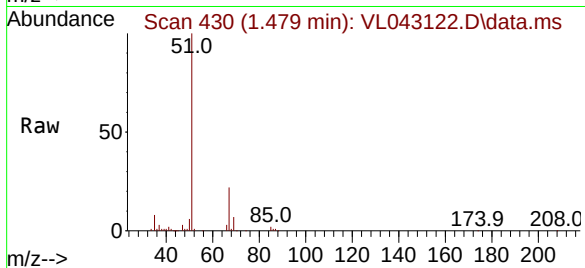




#3
Chlorodifluoromethane
Concen: 9.396 ppbv
RT: 1.479 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

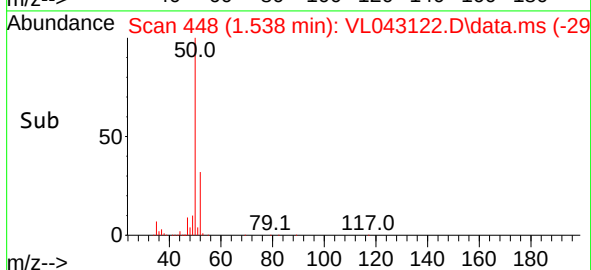
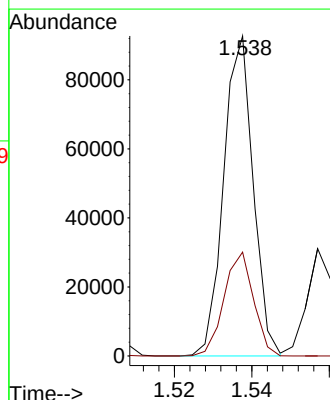
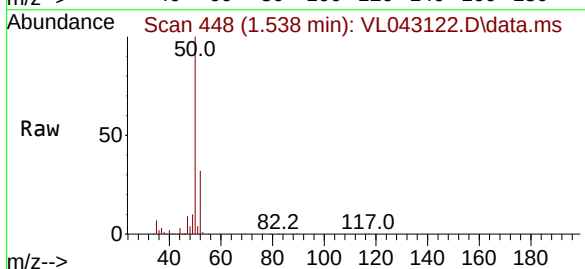
Instrument :
MSVOA_L
ClientSampleId :
VL1015ABSD01

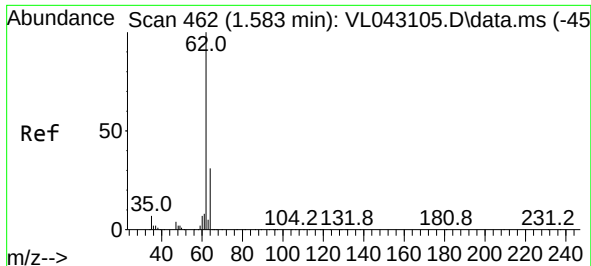
Tgt Ion: 51 Resp: 132400
Ion Ratio Lower Upper
51 100
67 22.2 15.1 22.7



#4
Chloromethane
Concen: 9.512 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.003 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

Tgt Ion: 50 Resp: 49080
Ion Ratio Lower Upper
50 100
52 32.5 25.2 37.8

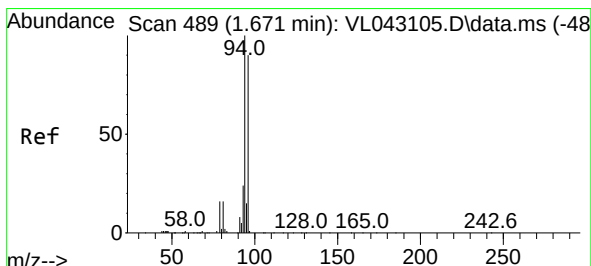
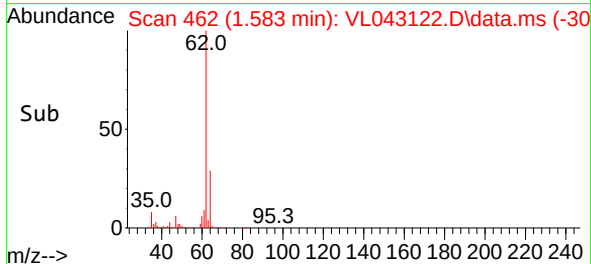
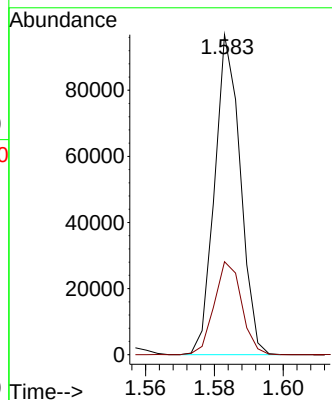
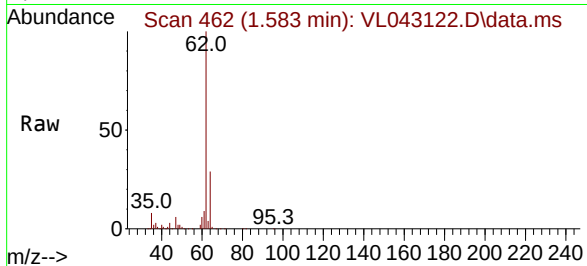




#5
 Vinyl Chloride
 Concen: 9.926 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. -0.000 min
 Lab File: VL043122.D
 Acq: 15 Oct 2025 15:57

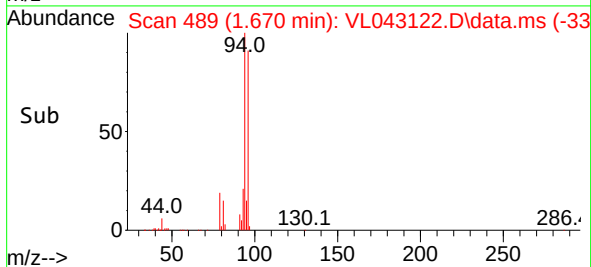
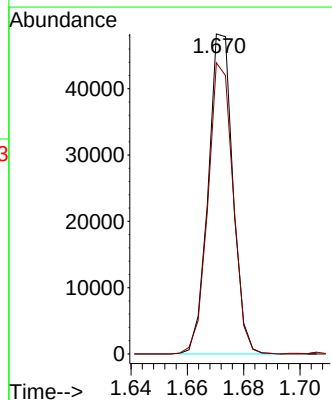
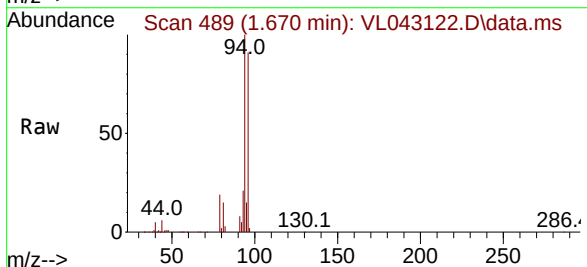
Instrument :
 MSVOA_L
 ClientSampleId :
 VL1015ABSD01

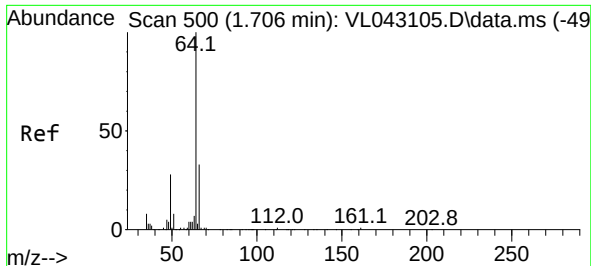
Tgt Ion: 62 Resp: 50236
 Ion Ratio Lower Upper
 62 100
 64 29.1 24.6 36.8



#6
 Bromomethane
 Concen: 10.576 ppbv
 RT: 1.670 min Scan# 489
 Delta R.T. -0.000 min
 Lab File: VL043122.D
 Acq: 15 Oct 2025 15:57

Tgt Ion: 94 Resp: 29349
 Ion Ratio Lower Upper
 94 100
 96 91.0 72.2 108.4

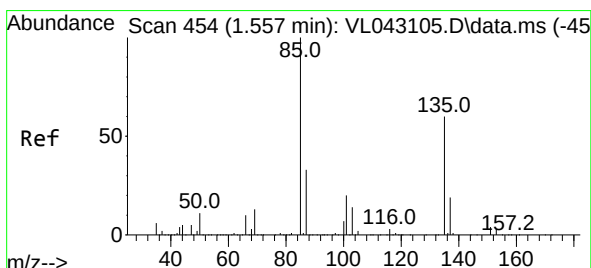
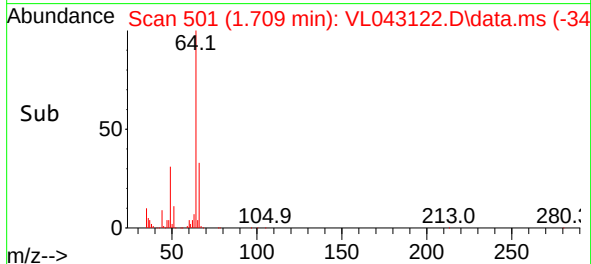
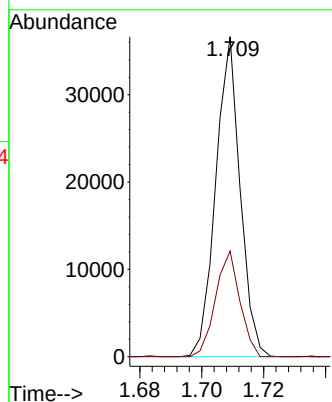
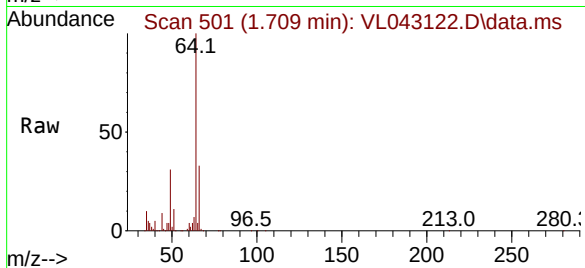




#7
Chloroethane
Concen: 9.657 ppbv
RT: 1.709 min Scan# 500
Delta R.T. 0.003 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

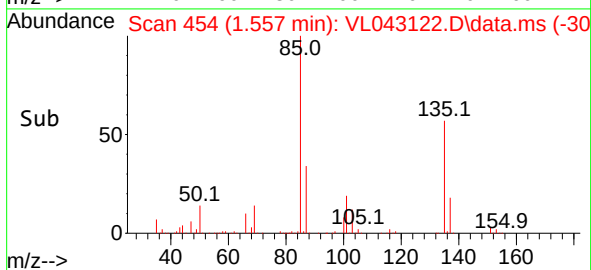
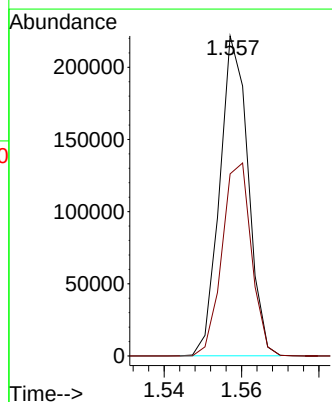
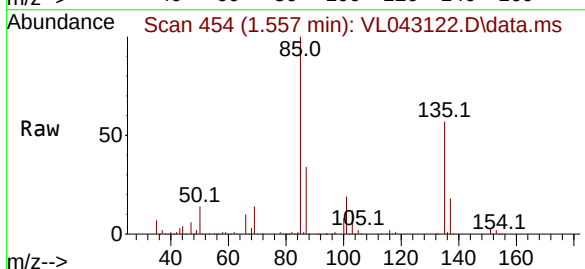
Instrument :
MSVOA_1
ClientSampleId :
VL1015ABSD01

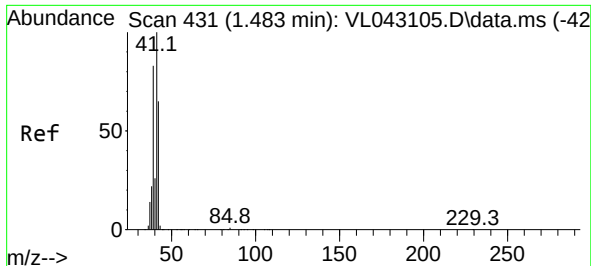
Tgt Ion: 64 Resp: 19982
Ion Ratio Lower Upper
64 100
66 33.0 26.0 39.0



#8
Dichlorotetrafluoroethane
Concen: 10.726 ppbv
RT: 1.557 min Scan# 454
Delta R.T. -0.000 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

Tgt Ion: 85 Resp: 112911
Ion Ratio Lower Upper
85 100
135 62.8 48.2 72.4





#9

Propene

Concen: 7.839 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL043122.D

Acq: 15 Oct 2025 15:57

Instrument :

MSVOA_1

ClientSampleId :

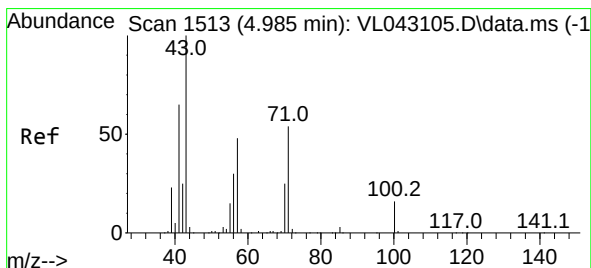
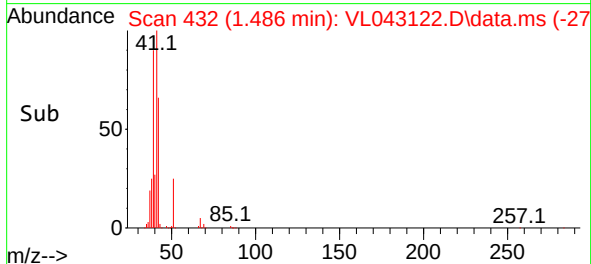
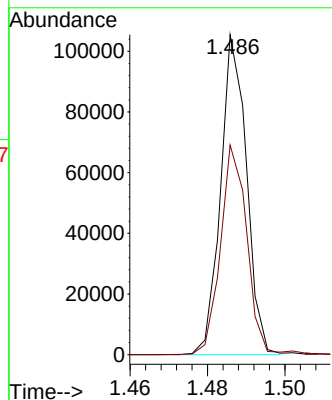
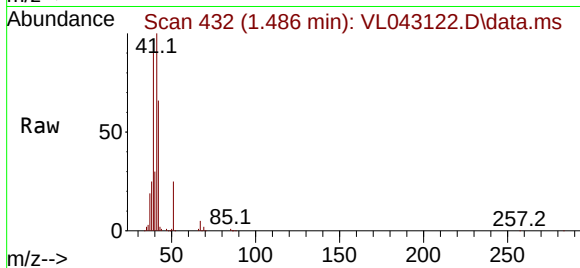
VL1015ABSD01

Tgt Ion: 41 Resp: 48992

Ion Ratio Lower Upper

41 100

42 67.6 55.1 82.7



#10

Heptane

Concen: 8.152 ppbv

RT: 4.991 min Scan# 1515

Delta R.T. 0.006 min

Lab File: VL043122.D

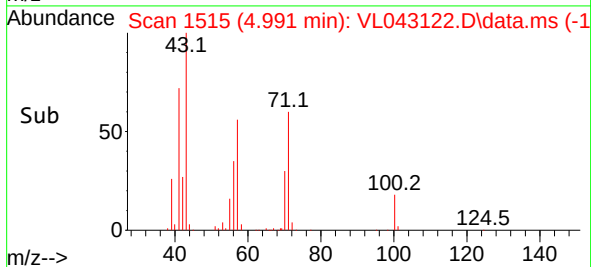
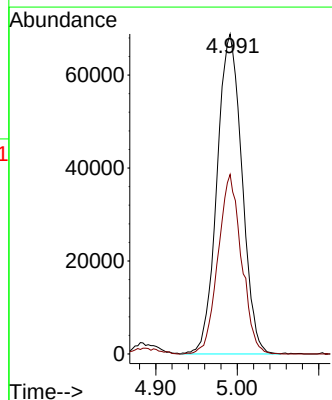
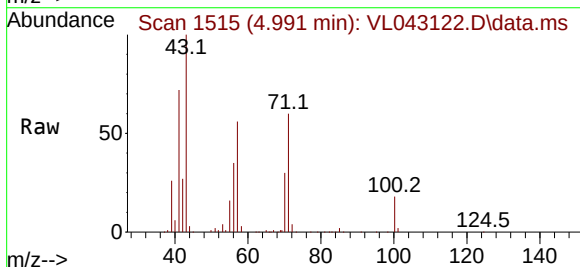
Acq: 15 Oct 2025 15:57

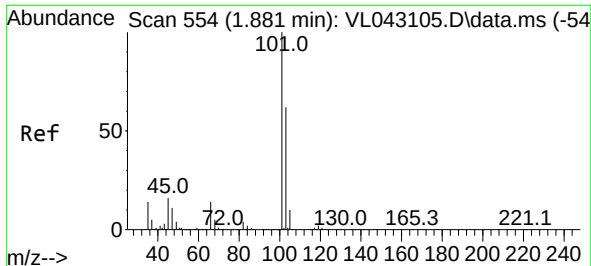
Tgt Ion: 43 Resp: 146679

Ion Ratio Lower Upper

43 100

57 52.7 40.8 61.2

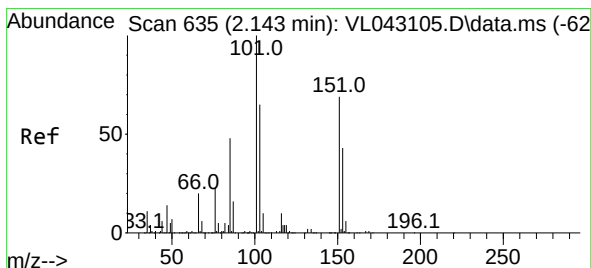
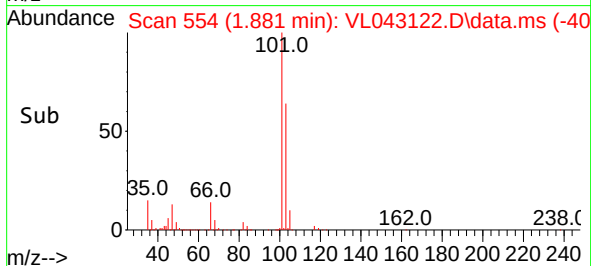
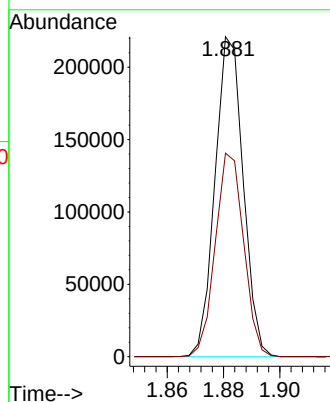
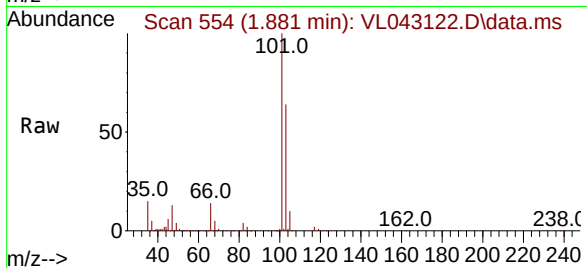




#11
 Trichlorofluoromethane
 Concen: 12.069 ppbv
 RT: 1.881 min Scan# 51
 Delta R.T. -0.000 min
 Lab File: VL043122.D
 Acq: 15 Oct 2025 15:57

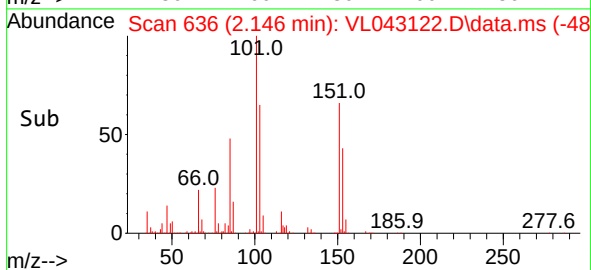
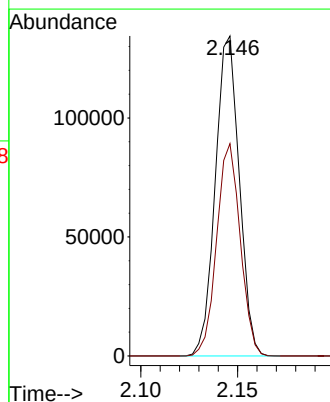
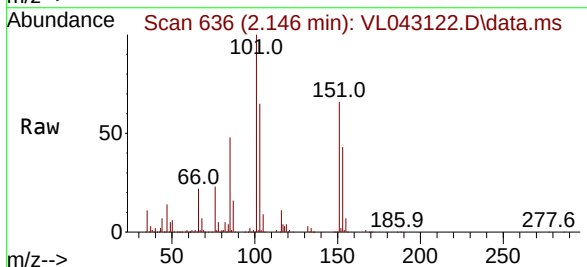
Instrument :
 MSVOA_L
 ClientSampleId :
 VL1015ABSD01

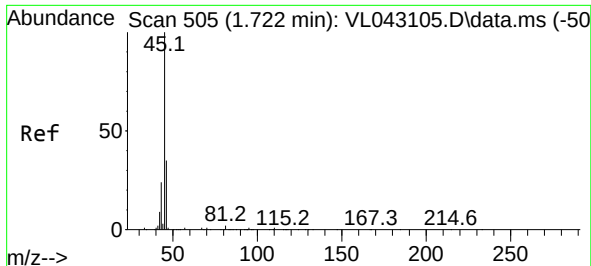
Tgt Ion:101 Resp: 153762
 Ion Ratio Lower Upper
 101 100
 103 63.6 49.3 73.9



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 11.275 ppbv
 RT: 2.146 min Scan# 636
 Delta R.T. 0.003 min
 Lab File: VL043122.D
 Acq: 15 Oct 2025 15:57

Tgt Ion:101 Resp: 115644
 Ion Ratio Lower Upper
 101 100
 151 65.3 54.7 82.1

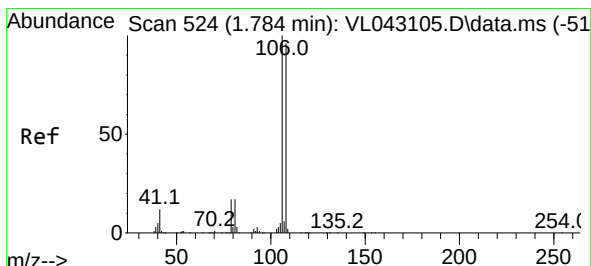
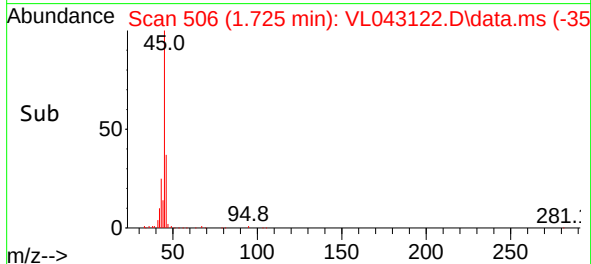
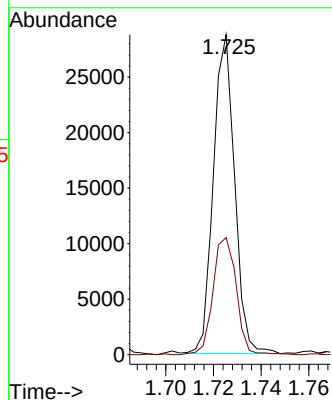
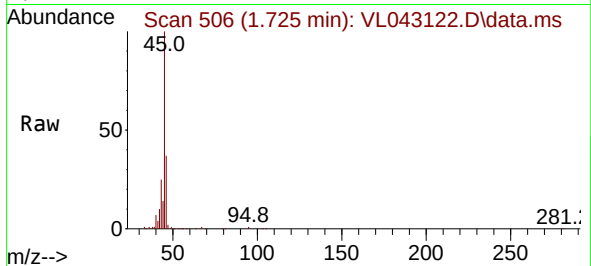




#13
Ethanol
Concen: 7.696 ppbv
RT: 1.725 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

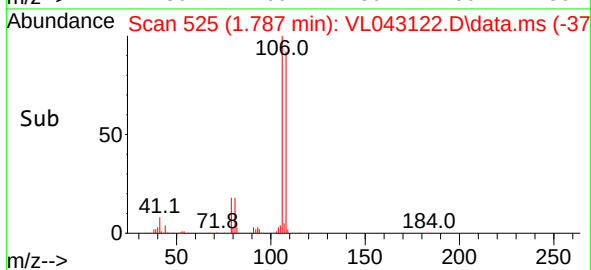
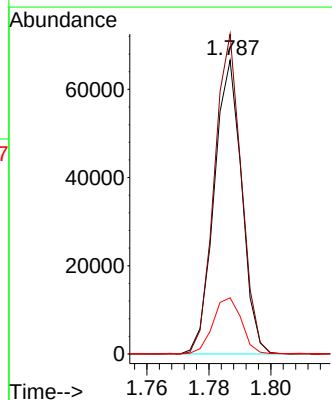
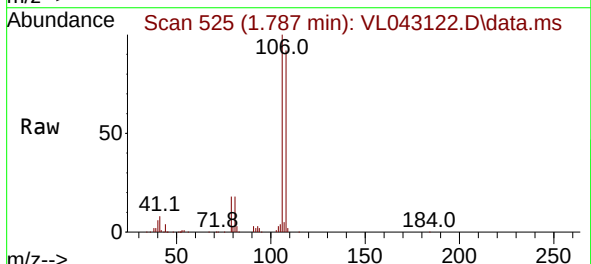
Instrument :
MSVOA_L
ClientSampleId :
VL1015ABSD01

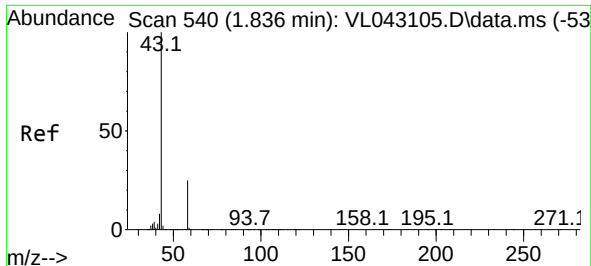
Tgt Ion: 45 Resp: 17793
Ion Ratio Lower Upper
45 100
46 40.5 14.7 58.9



#14
Bromoethene
Concen: 10.816 ppbv
RT: 1.787 min Scan# 525
Delta R.T. 0.003 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

Tgt Ion: 108 Resp: 41213
Ion Ratio Lower Upper
108 100
106 106.4 84.4 126.6
79 20.1 15.3 22.9

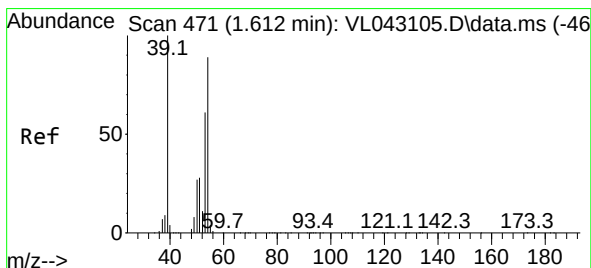
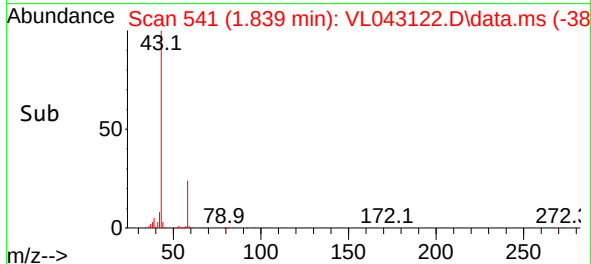
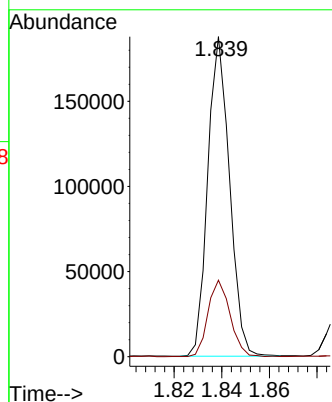
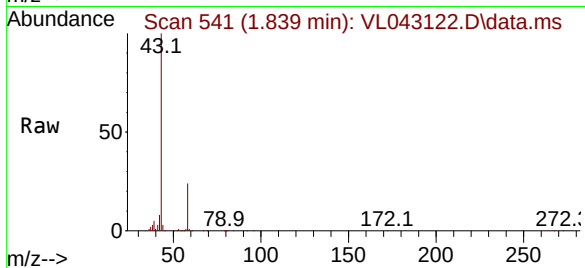




#15
Acetone
Concen: 9.624 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

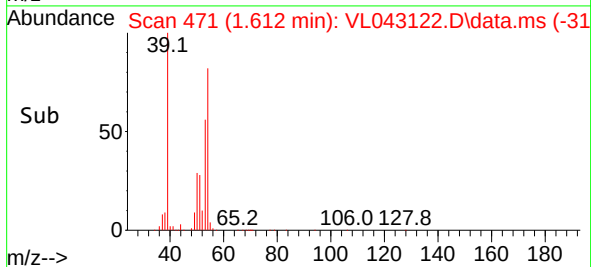
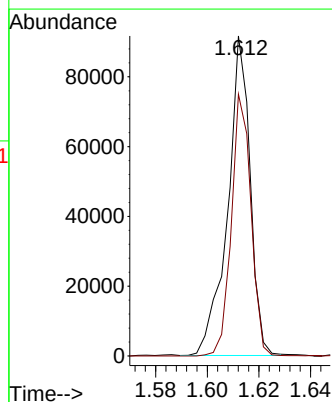
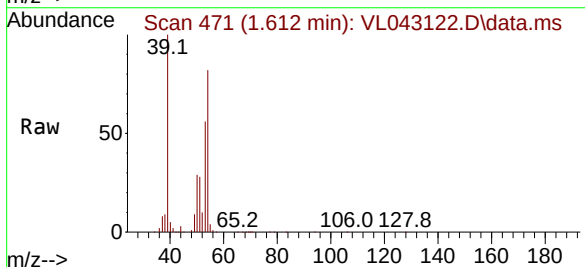
Instrument :
MSVOA_L
ClientSampleId :
VL1015ABSD01

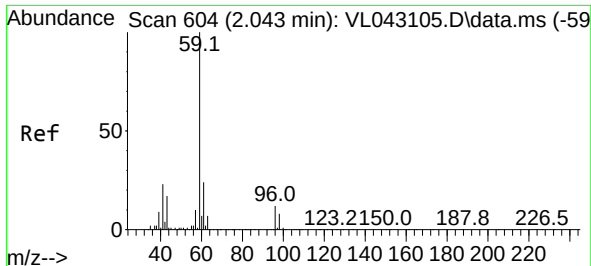
Tgt Ion: 43 Resp: 118839
Ion Ratio Lower Upper
43 100
58 24.6 20.8 31.2



#16
1,3-Butadiene
Concen: 9.399 ppbv
RT: 1.612 min Scan# 471
Delta R.T. -0.000 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

Tgt Ion: 39 Resp: 55311
Ion Ratio Lower Upper
39 100
54 71.6 59.0 88.4





#17

tert-Butyl alcohol

Concen: 10.302 ppbv

RT: 2.043 min Scan# 604

Delta R.T. -0.000 min

Lab File: VL043122.D

Acq: 15 Oct 2025 15:57

Instrument :

MSVOA_1

ClientSampleId :

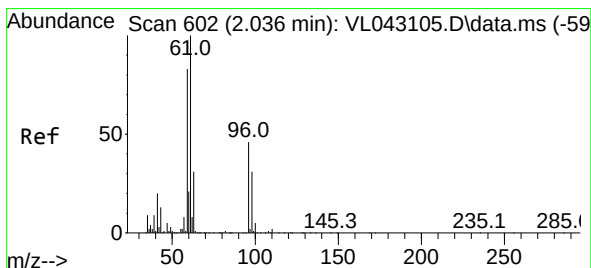
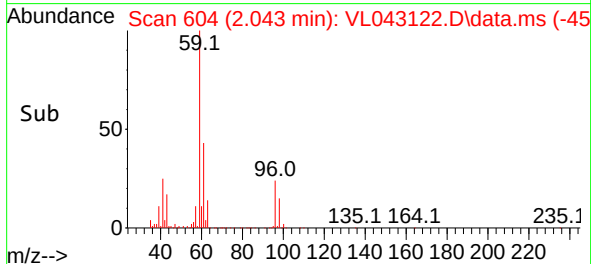
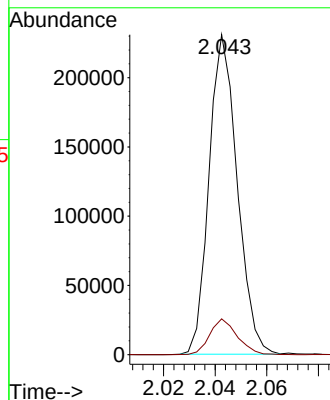
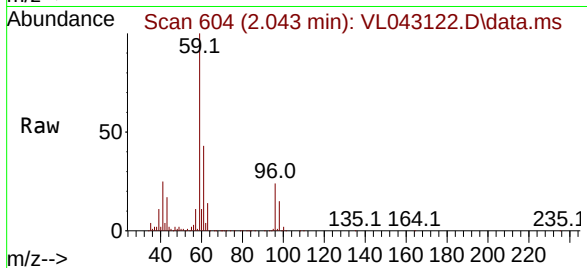
VL1015ABSD01

Tgt Ion: 59 Resp: 174619

Ion Ratio Lower Upper

59 100

57 11.1 8.2 12.4



#18

1,1-Dichloroethene

Concen: 11.408 ppbv

RT: 2.039 min Scan# 603

Delta R.T. 0.003 min

Lab File: VL043122.D

Acq: 15 Oct 2025 15:57

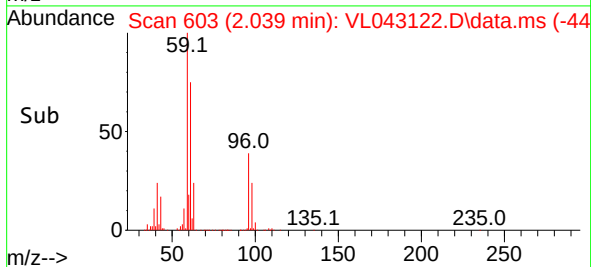
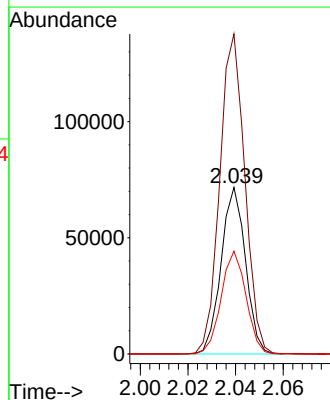
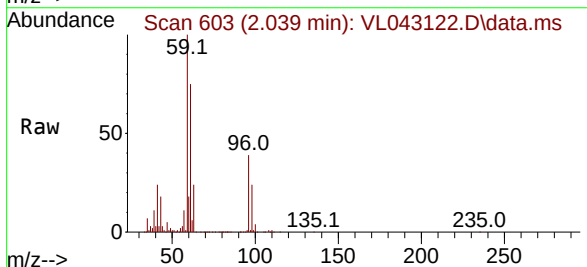
Tgt Ion: 96 Resp: 51012

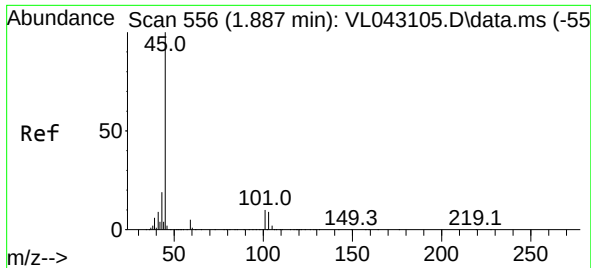
Ion Ratio Lower Upper

96 100

61 192.1 173.4 260.0

98 61.6 53.2 79.8

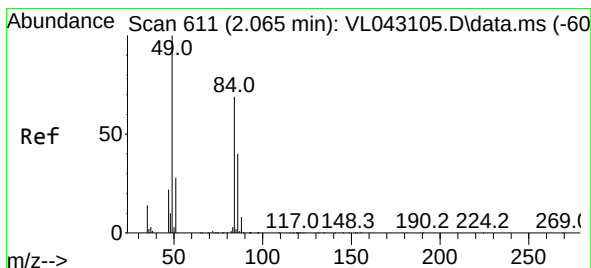
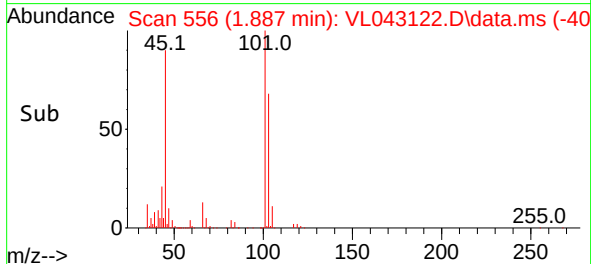
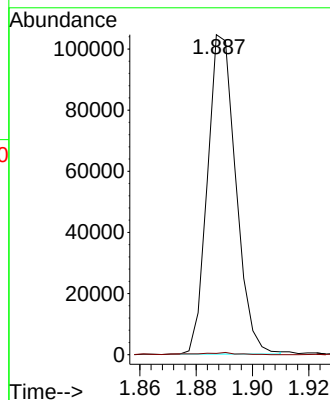
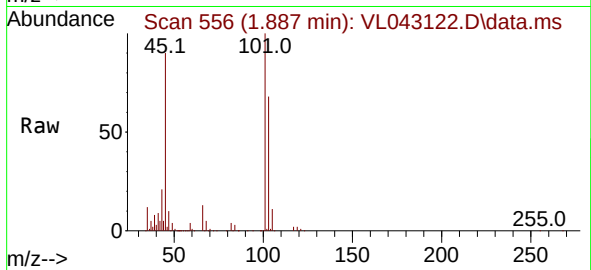




#19
Isopropyl Alcohol
Concen: 9.508 ppbv
RT: 1.887 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

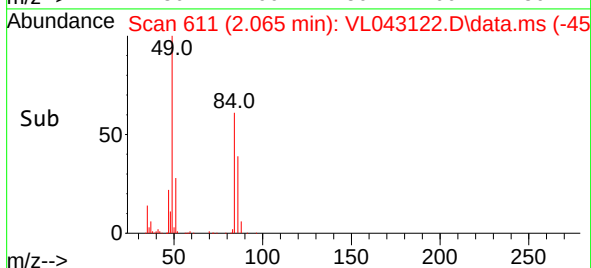
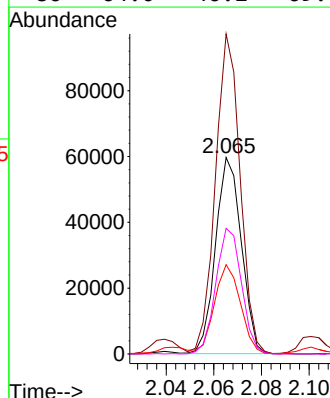
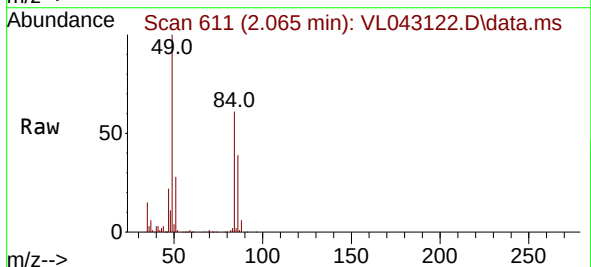
Instrument :
MSVOA_L
ClientSampleId :
VL1015ABSD01

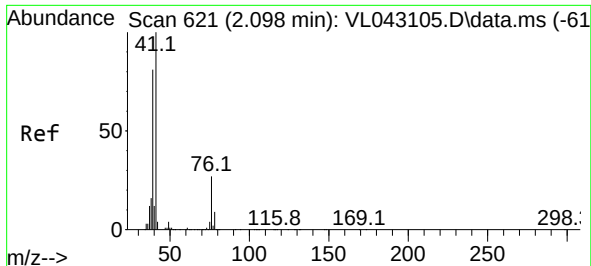
Tgt Ion: 45 Resp: 73121
Ion Ratio Lower Upper
45 100
58 40.0 31.3 46.9



#20
Methylene Chloride
Concen: 9.190 ppbv
RT: 2.065 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

Tgt Ion: 84 Resp: 44858
Ion Ratio Lower Upper
84 100
49 162.8 116.6 175.0
51 45.5 34.8 52.2
86 64.0 46.2 69.4

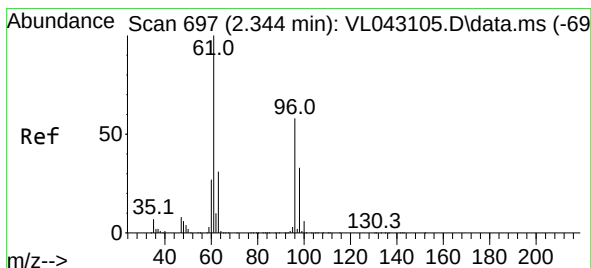
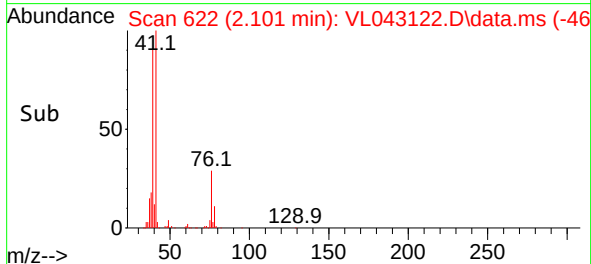
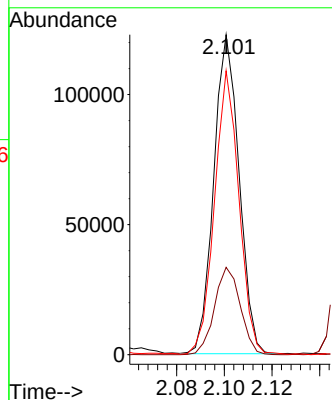
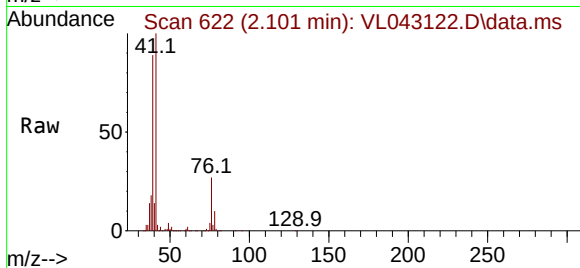




#21
 Allyl Chloride
 Concen: 9.952 ppbv
 RT: 2.101 min Scan# 61
 Delta R.T. 0.003 min
 Lab File: VL043122.D
 Acq: 15 Oct 2025 15:57

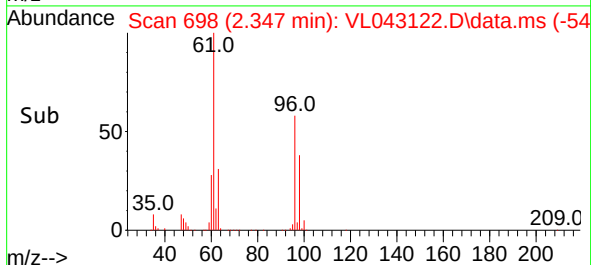
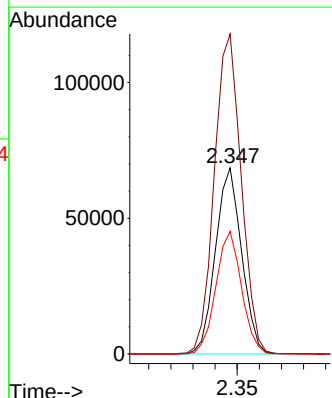
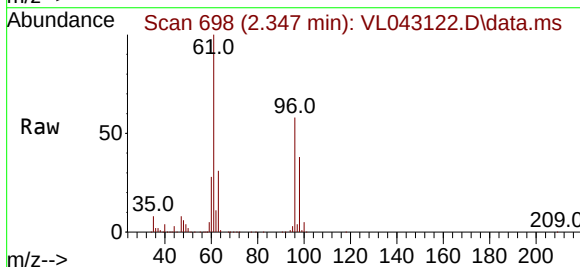
Instrument :
 MSVOA_L
 ClientSampleId :
 VL1015ABSD01

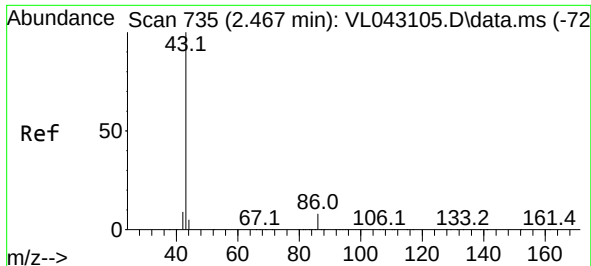
Tgt Ion: 41 Resp: 90557
 Ion Ratio Lower Upper
 41 100
 76 27.8 21.5 32.3
 39 85.6 60.8 91.2



#22
 trans-1,2-Dichloroethene
 Concen: 10.539 ppbv
 RT: 2.347 min Scan# 698
 Delta R.T. 0.003 min
 Lab File: VL043122.D
 Acq: 15 Oct 2025 15:57

Tgt Ion: 96 Resp: 56333
 Ion Ratio Lower Upper
 96 100
 61 172.0 137.0 205.6
 98 65.9 45.5 68.3



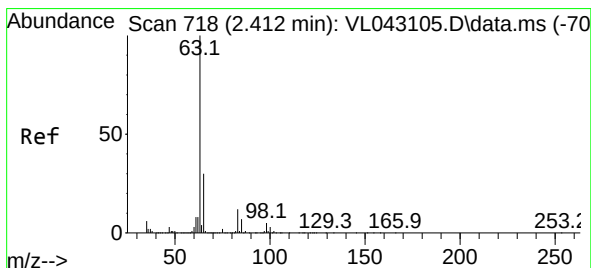
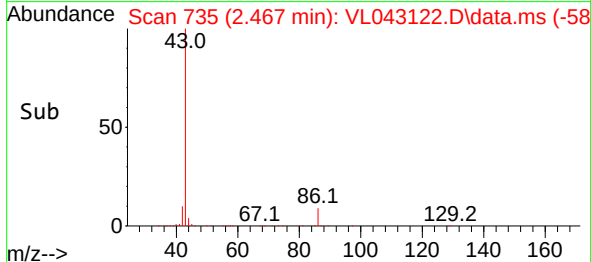
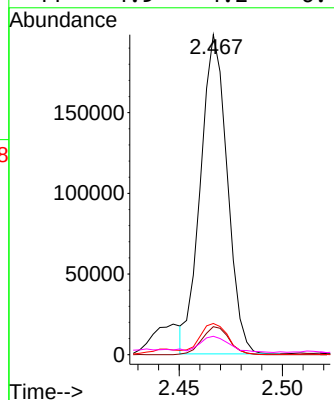
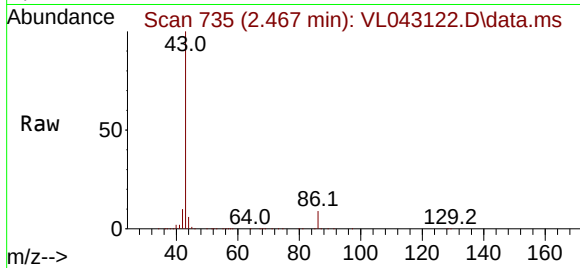


#23
 Vinyl Acetate
 Concen: 9.822 ppbv
 RT: 2.467 min Scan# 719
 Delta R.T. -0.000 min
 Lab File: VL043122.D
 Acq: 15 Oct 2025 15:57

Instrument :
 MSVOA_1
 ClientSampleId :
 VL1015ABSD01

Tgt Ion: 43 Resp: 177669

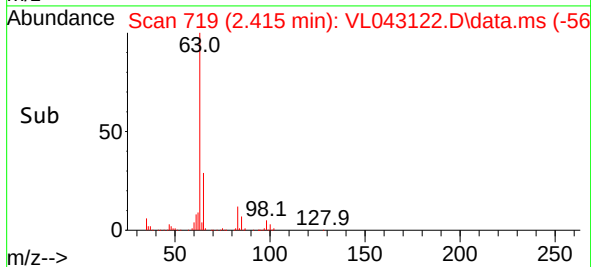
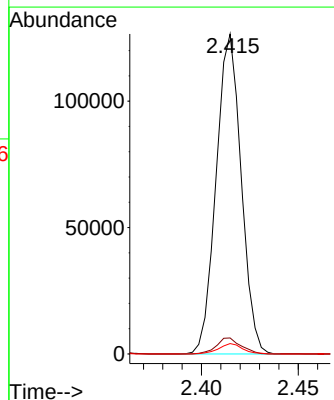
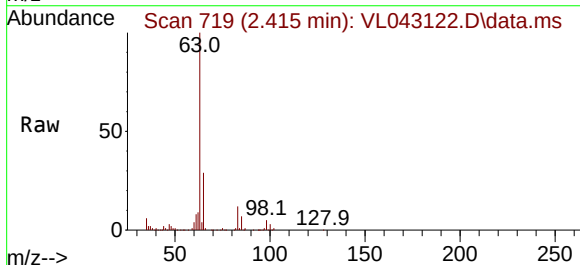
Ion	Ratio	Lower	Upper
43	100		
86	8.8	6.2	9.2
42	9.7	7.6	11.4
44	4.9	4.2	6.4

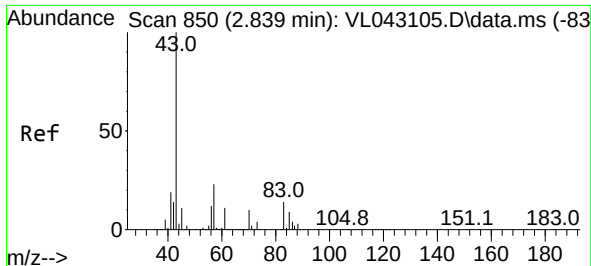


#24
 1,1-Dichloroethane
 Concen: 11.006 ppbv
 RT: 2.415 min Scan# 719
 Delta R.T. 0.003 min
 Lab File: VL043122.D
 Acq: 15 Oct 2025 15:57

Tgt Ion: 63 Resp: 113663

Ion	Ratio	Lower	Upper
63	100		
98	5.0	2.6	7.8
100	3.3	1.5	4.4

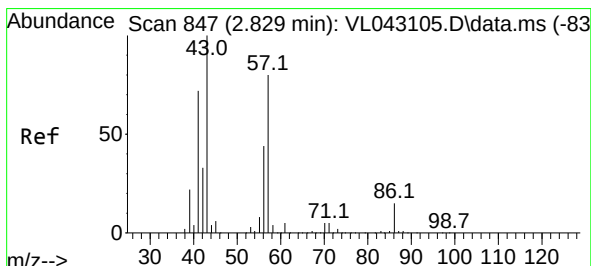
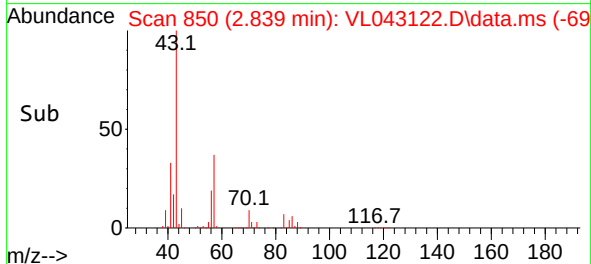
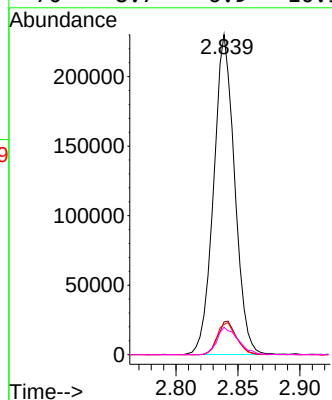
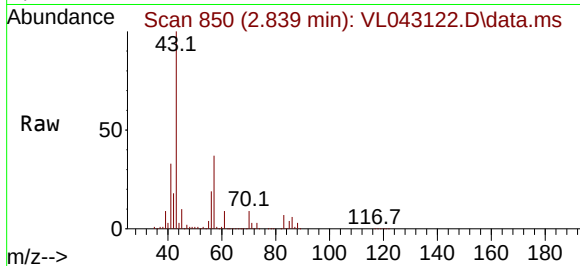




#25
Ethyl Acetate
Concen: 8.880 ppbv
RT: 2.839 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

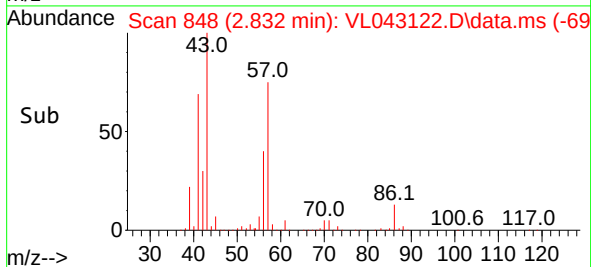
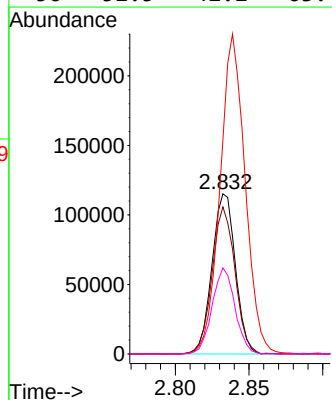
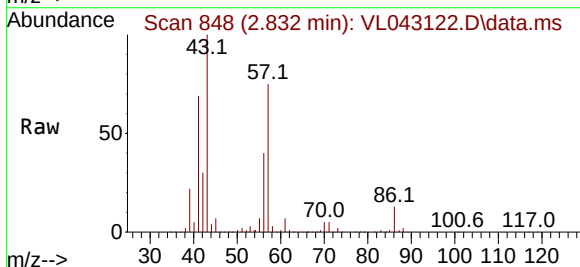
Instrument :
MSVOA_1
ClientSampleId :
VL1015ABSD01

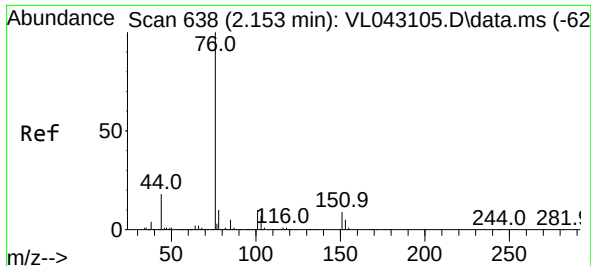
Tgt Ion:	43	Resp:	271918
Ion	Ratio	Lower	Upper
43	100		
45	9.5	7.8	11.8
61	9.3	7.0	10.6
70	8.7	6.9	10.3



#26
Hexane
Concen: 8.976 ppbv
RT: 2.832 min Scan# 848
Delta R.T. 0.003 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

Tgt Ion:	57	Resp:	126655
Ion	Ratio	Lower	Upper
57	100		
41	90.6	71.4	107.0
43	215.7	178.5	267.7
56	52.5	42.2	63.4

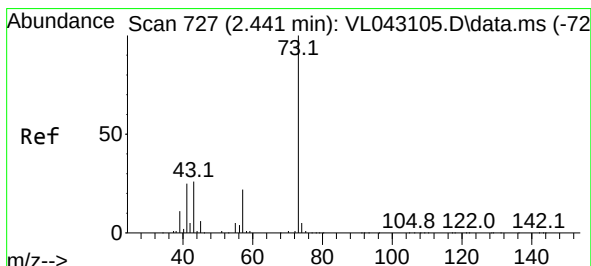
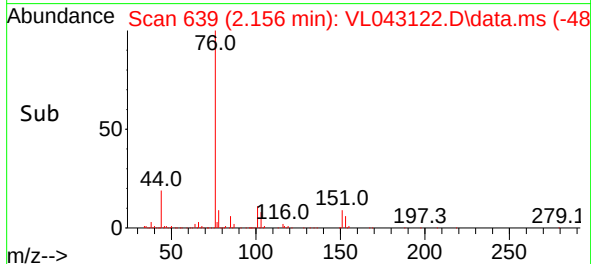
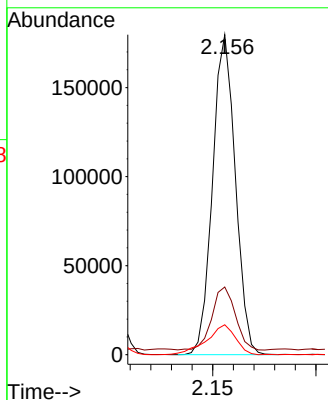
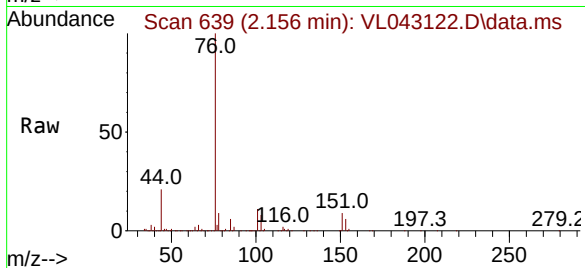




#27
Carbon Disulfide
Concen: 10.663 ppbv
RT: 2.156 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

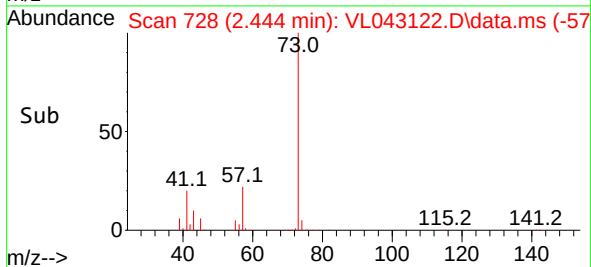
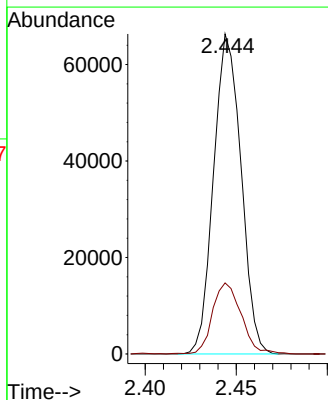
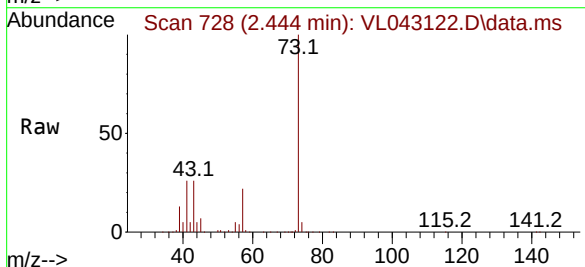
Instrument :
MSVOA_1
ClientSampleId :
VL1015ABSD01

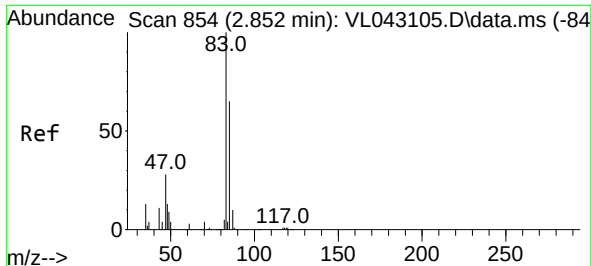
Tgt Ion: 76 Resp: 137853
Ion Ratio Lower Upper
76 100
44 20.1 16.7 25.1
78 11.9 9.3 13.9



#28
Methyl tert-Butyl Ether
Concen: 10.818 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.003 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

Tgt Ion: 73 Resp: 69446
Ion Ratio Lower Upper
73 100
57 23.5 20.5 30.7





#29

Chloroform

Concen: 10.496 ppbv

RT: 2.855 min Scan# 85

Delta R.T. 0.003 min

Lab File: VL043122.D

Acq: 15 Oct 2025 15:57

Instrument :

MSVOA_L

ClientSampleId :

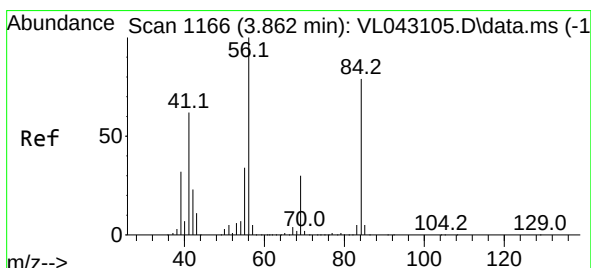
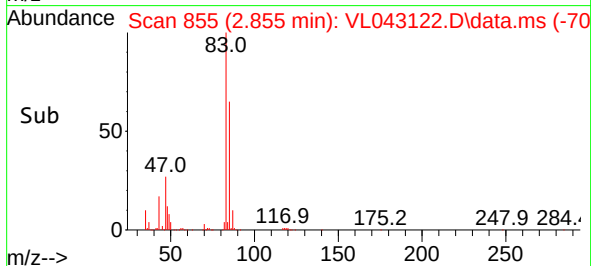
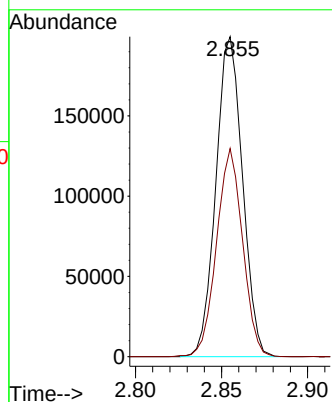
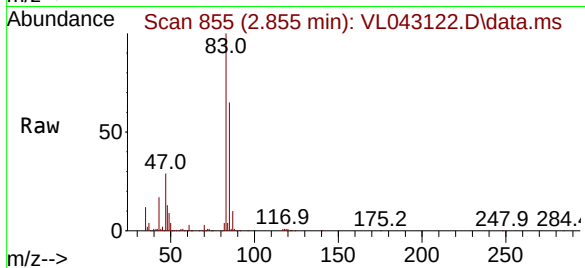
VL1015ABSD01

Tgt Ion: 83 Resp: 214588

Ion Ratio Lower Upper

83 100

85 65.0 51.8 77.6



#30

Cyclohexane

Concen: 9.100 ppbv

RT: 3.865 min Scan# 1167

Delta R.T. 0.003 min

Lab File: VL043122.D

Acq: 15 Oct 2025 15:57

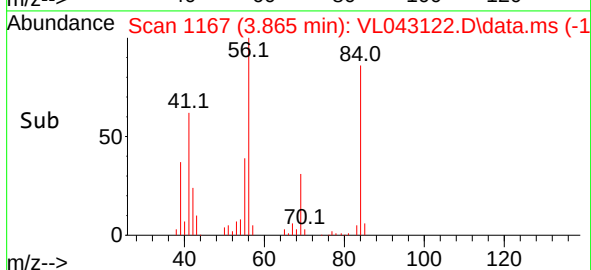
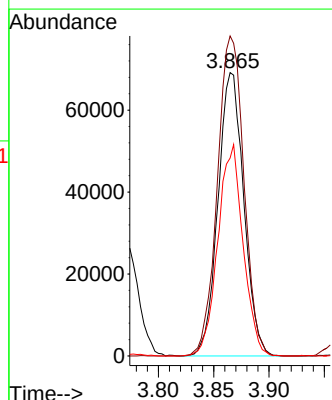
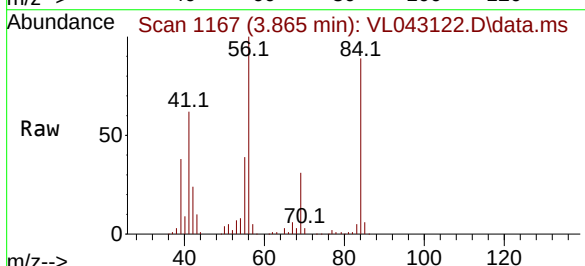
Tgt Ion: 84 Resp: 112065

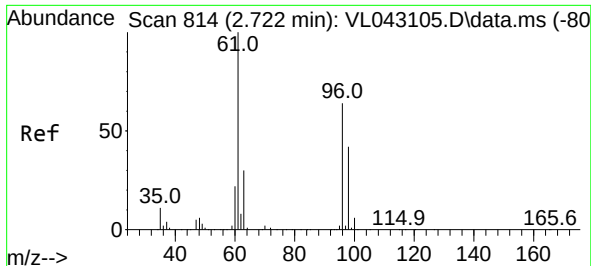
Ion Ratio Lower Upper

84 100

56 116.2 100.9 151.3

41 72.9 63.8 95.6

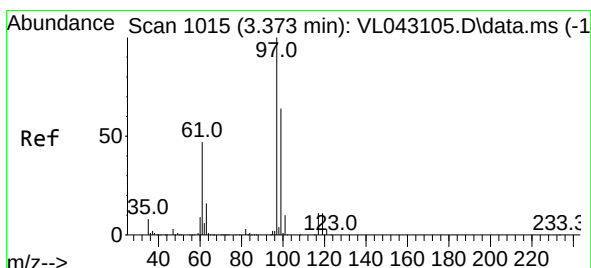
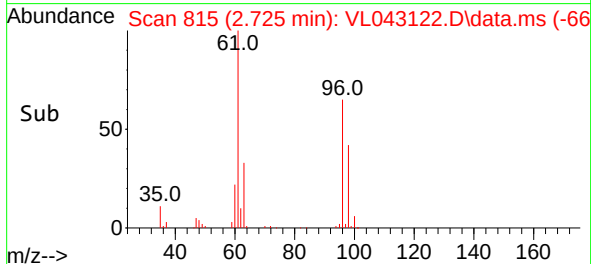
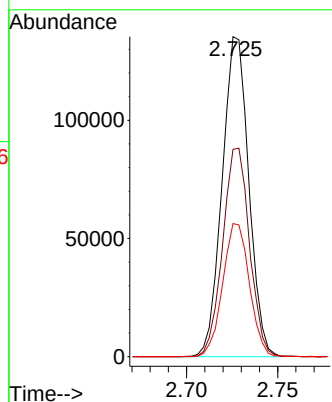
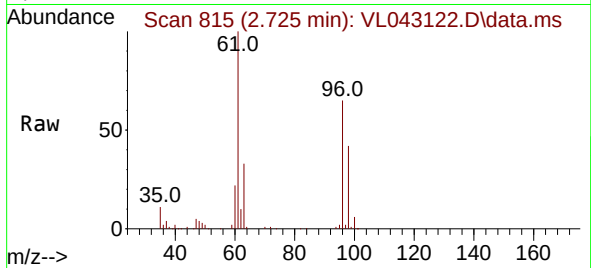




#31
 cis-1,2-Dichloroethene
 Concen: 10.216 ppbv
 RT: 2.725 min Scan# 814
 Delta R.T. 0.003 min
 Lab File: VL043122.D
 Acq: 15 Oct 2025 15:57

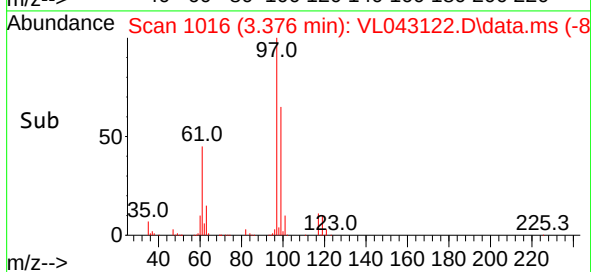
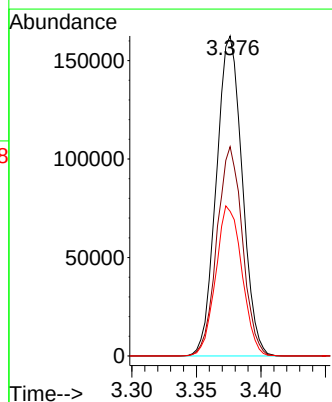
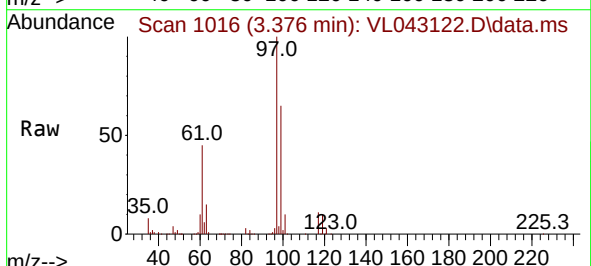
Instrument :
 MSVOA_L
 ClientSampleId :
 VL1015ABSD01

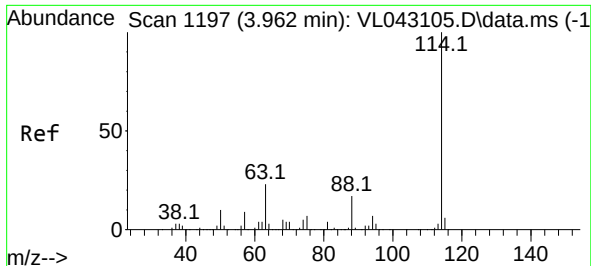
Tgt Ion: 61 Resp: 137648
 Ion Ratio Lower Upper
 61 100
 96 64.8 51.0 76.6
 98 41.6 33.5 50.3



#32
 1,1,1-Trichloroethane
 Concen: 10.634 ppbv
 RT: 3.376 min Scan# 1016
 Delta R.T. 0.003 min
 Lab File: VL043122.D
 Acq: 15 Oct 2025 15:57

Tgt Ion: 97 Resp: 226398
 Ion Ratio Lower Upper
 97 100
 99 64.5 51.3 76.9
 61 47.5 38.4 57.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.965 min Scan# 1198

Delta R.T. 0.003 min

Lab File: VL043122.D

Acq: 15 Oct 2025 15:57

Instrument :

MSVOA_L

ClientSampleId :

VL1015ABSD01

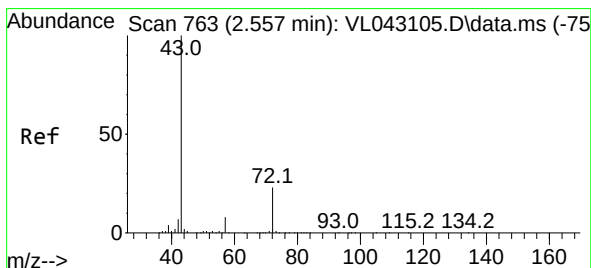
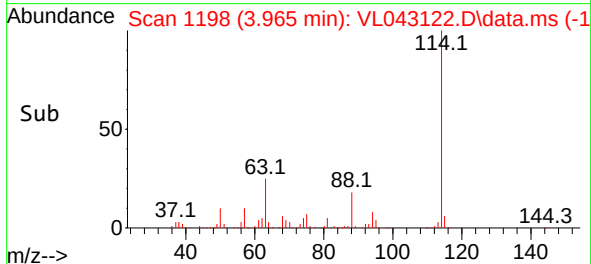
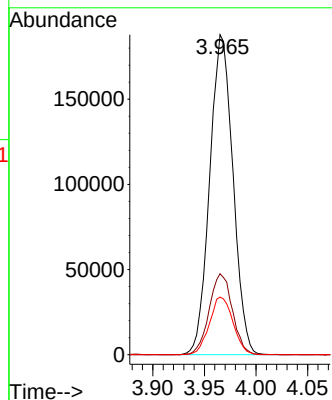
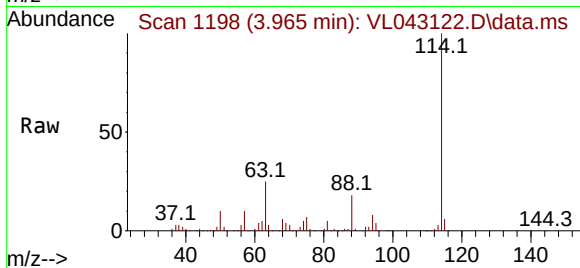
Tgt Ion:114 Resp: 294311

Ion Ratio Lower Upper

114 100

63 25.3 19.3 28.9

88 18.3 13.9 20.9



#34

2-Butanone

Concen: 9.109 ppbv

RT: 2.560 min Scan# 764

Delta R.T. 0.003 min

Lab File: VL043122.D

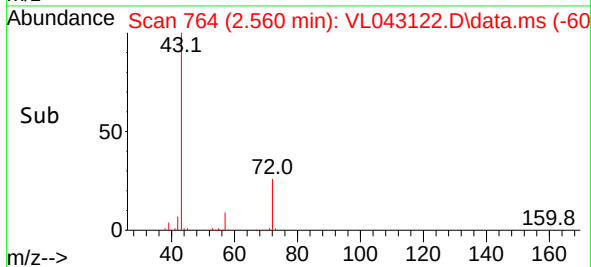
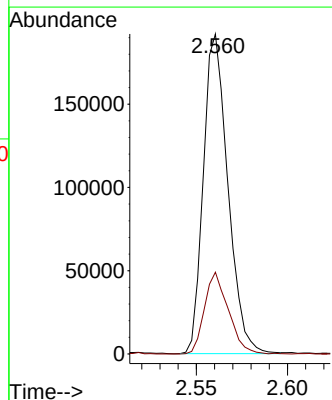
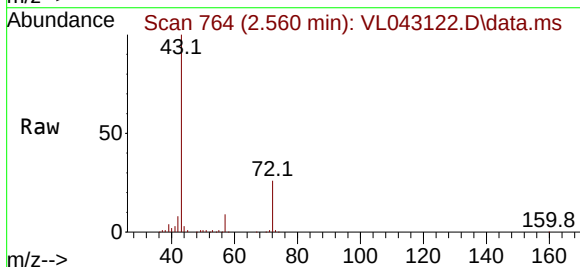
Acq: 15 Oct 2025 15:57

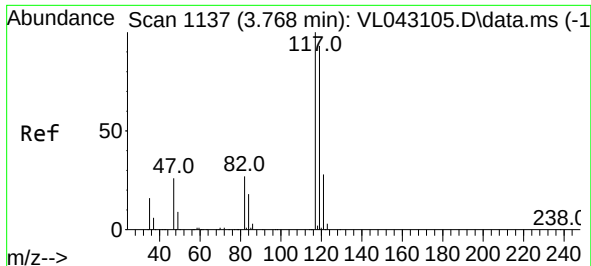
Tgt Ion: 43 Resp: 180212

Ion Ratio Lower Upper

43 100

72 25.0 18.4 27.6

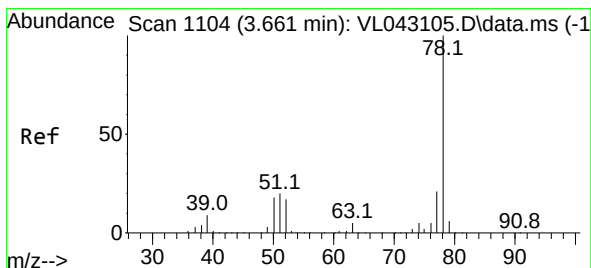
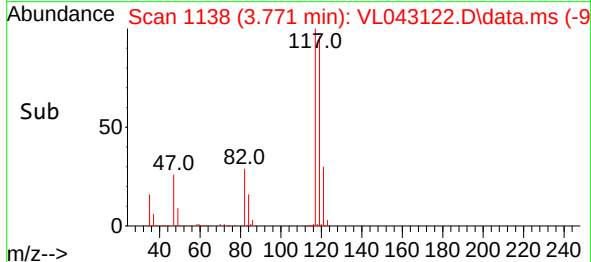
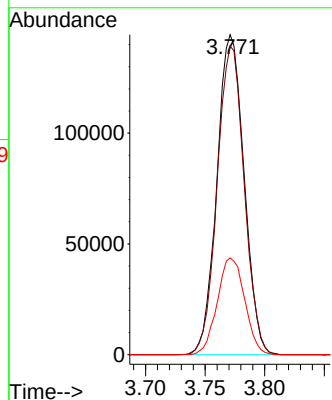
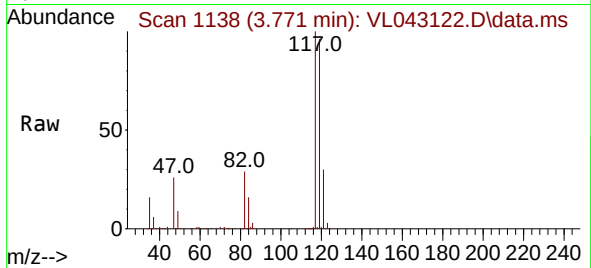




#35
Carbon Tetrachloride
Concen: 10.811 ppbv
RT: 3.771 min Scan# 1137
Delta R.T. 0.003 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

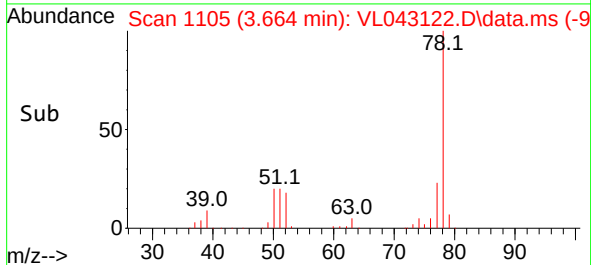
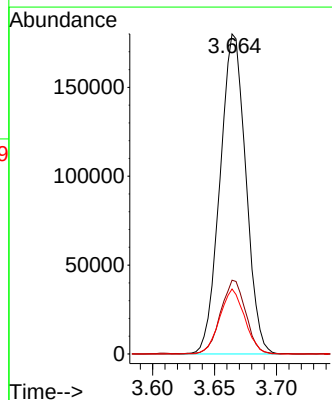
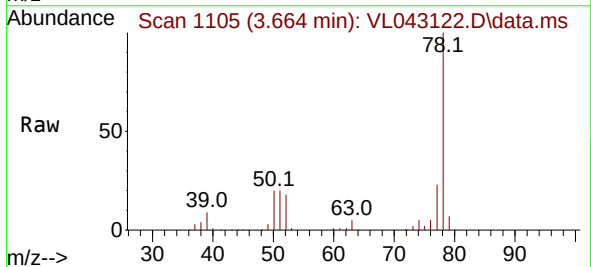
Instrument :
MSVOA_L
ClientSampleId :
VL1015ABSD01

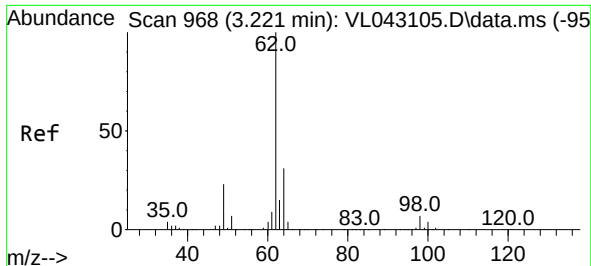
Tgt Ion:117 Resp: 228771
Ion Ratio Lower Upper
117 100
119 96.5 74.1 111.1
121 30.3 22.2 33.2



#36
Benzene
Concen: 9.418 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.003 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

Tgt Ion: 78 Resp: 261070
Ion Ratio Lower Upper
78 100
77 23.0 17.0 25.6
50 20.3 14.6 22.0

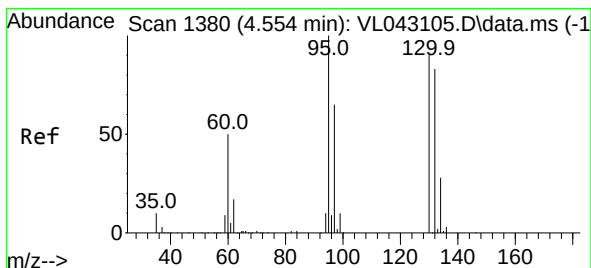
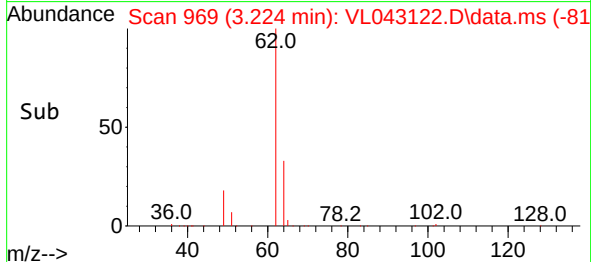
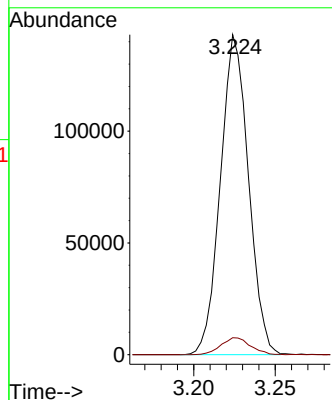
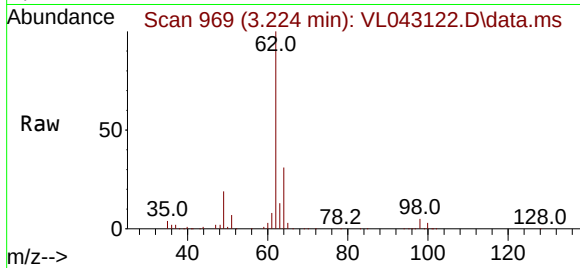




#37
1,2-Dichloroethane
Concen: 10.717 ppbv
RT: 3.224 min Scan# 90
Delta R.T. 0.003 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

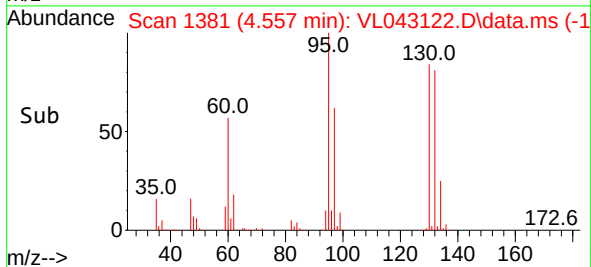
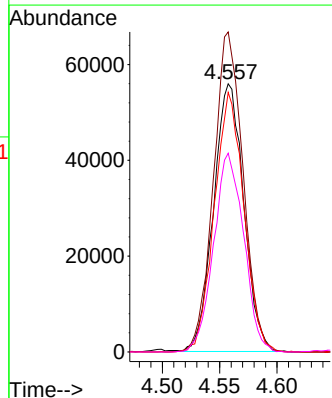
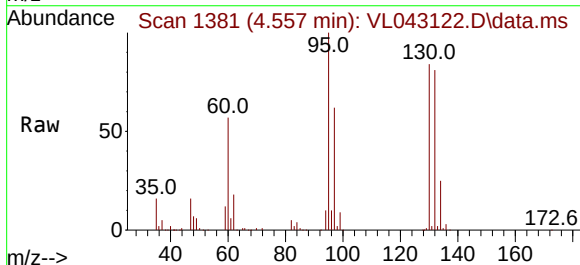
Instrument :
MSVOA_L
ClientSampleId :
VL1015ABSD01

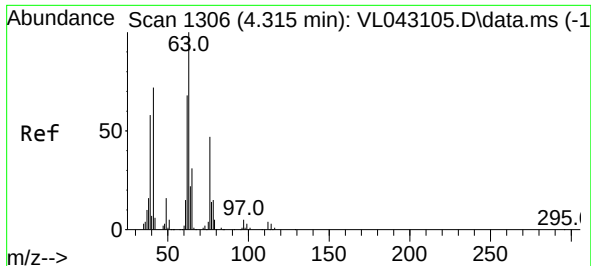
Tgt Ion: 62 Resp: 171136
Ion Ratio Lower Upper
62 100
98 5.6 5.8 8.6#



#38
Trichloroethene
Concen: 8.813 ppbv
RT: 4.557 min Scan# 1381
Delta R.T. 0.003 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

Tgt Ion:130 Resp: 102021
Ion Ratio Lower Upper
130 100
95 119.3 88.6 133.0
132 96.7 73.4 110.0
97 74.1 57.8 86.6





#39

1,2-Dichloropropane

Concen: 9.021 ppbv

RT: 4.321 min Scan# 11

Delta R.T. 0.006 min

Lab File: VL043122.D

Acq: 15 Oct 2025 15:57

Instrument :

MSVOA_L

ClientSampleId :

VL1015ABSD01

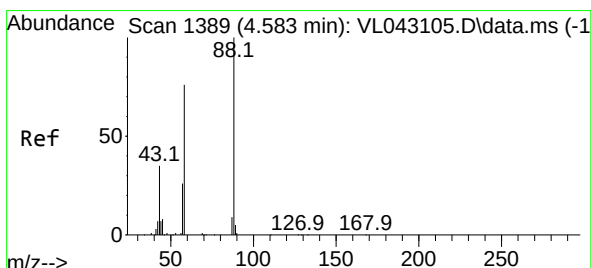
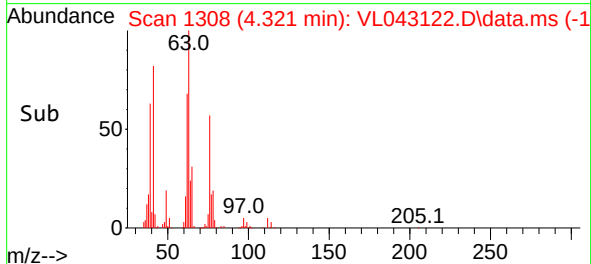
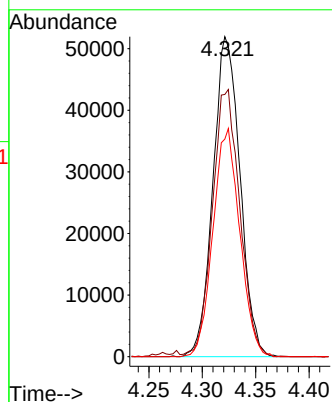
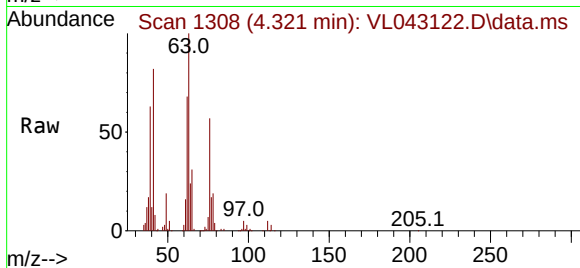
Tgt Ion: 63 Resp: 91417

Ion Ratio Lower Upper

63 100

41 81.8 58.0 87.0

62 68.0 54.7 82.1



#40

1,4-Dioxane

Concen: 9.057 ppbv

RT: 4.590 min Scan# 1391

Delta R.T. 0.006 min

Lab File: VL043122.D

Acq: 15 Oct 2025 15:57

Tgt Ion: 88 Resp: 41071

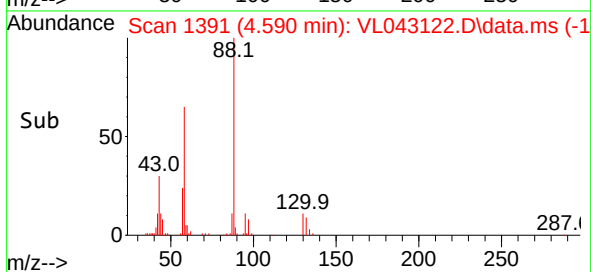
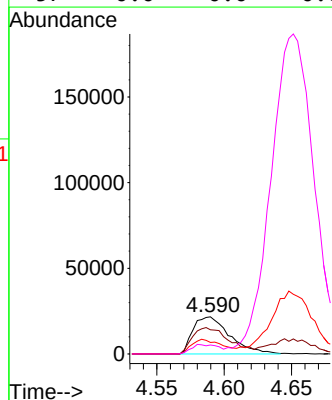
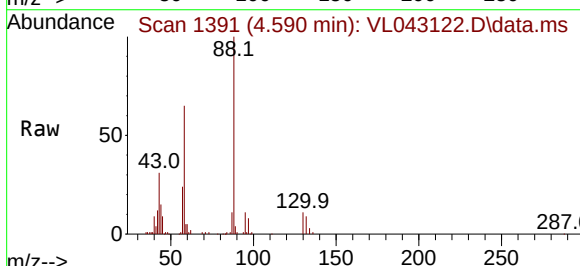
Ion Ratio Lower Upper

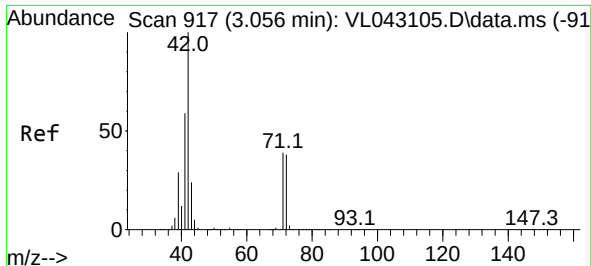
88 100

58 71.3 61.1 91.7

43 29.9 24.0 36.0

57 0.0 0.0 0.0

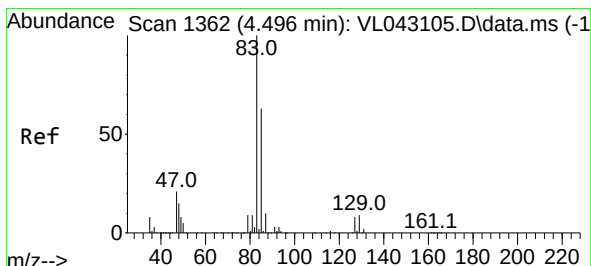
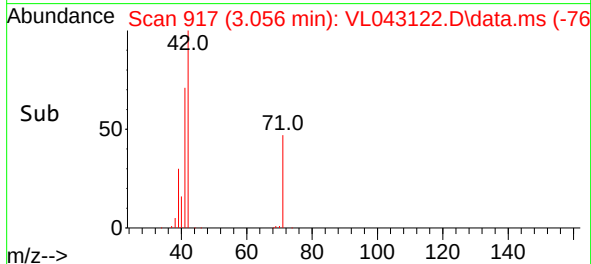
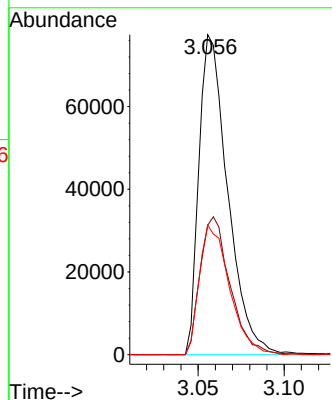
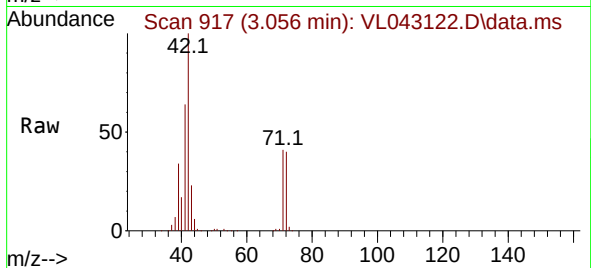




#41
Tetrahydrofuran
Concen: 8.131 ppbv
RT: 3.056 min Scan# 917
Delta R.T. -0.000 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

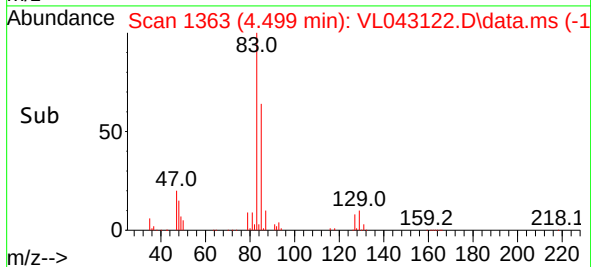
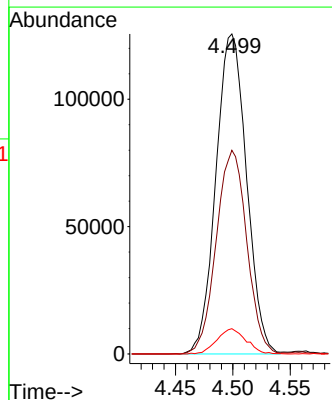
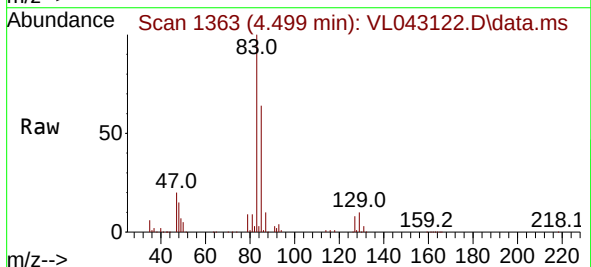
Instrument :
MSVOA_L
ClientSampleId :
VL1015ABSD01

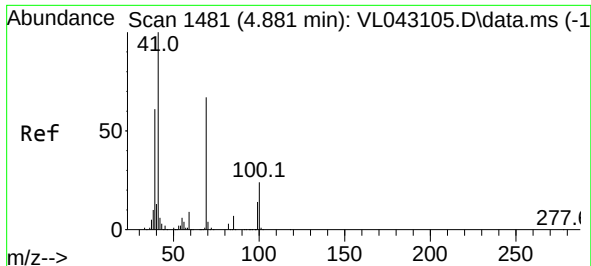
Tgt Ion: 42 Resp: 89968
Ion Ratio Lower Upper
42 100
72 44.9 31.3 46.9
71 42.6 30.4 45.6



#42
Bromodichloromethane
Concen: 10.563 ppbv
RT: 4.499 min Scan# 1363
Delta R.T. 0.003 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

Tgt Ion: 83 Resp: 233460
Ion Ratio Lower Upper
83 100
85 63.6 50.6 75.8
127 7.9 6.3 9.5

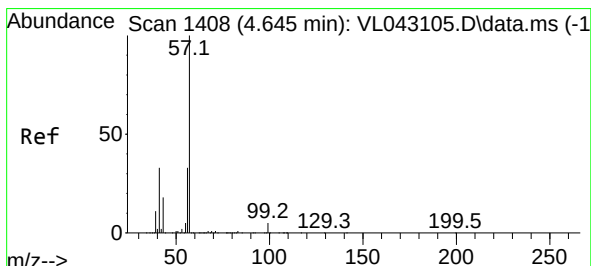
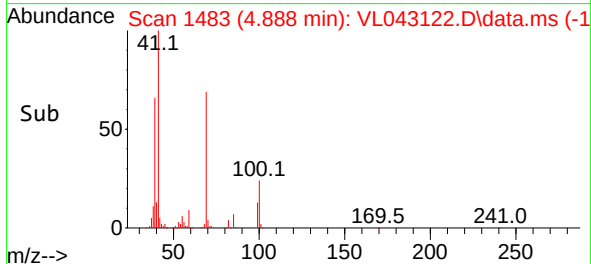
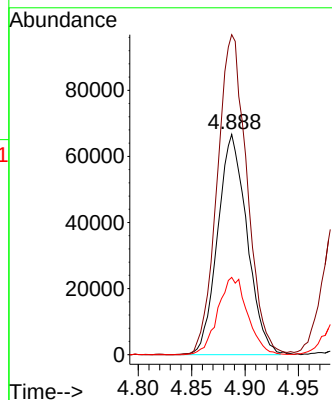
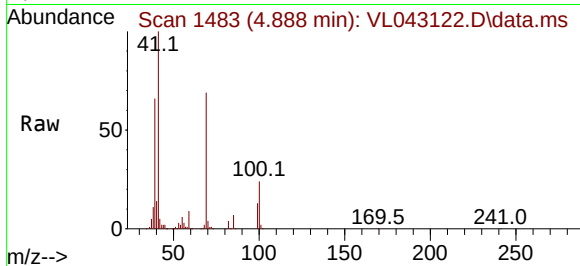




#43
Methyl Methacrylate
Concen: 9.059 ppbv
RT: 4.888 min Scan# 1481
Delta R.T. 0.006 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

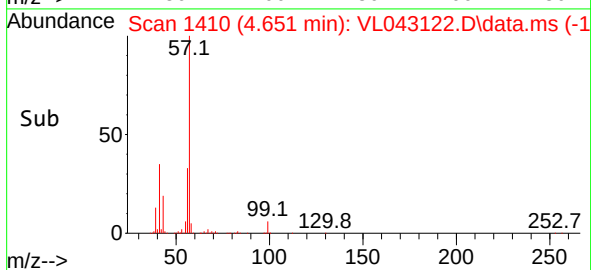
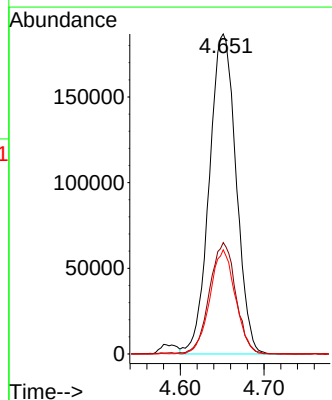
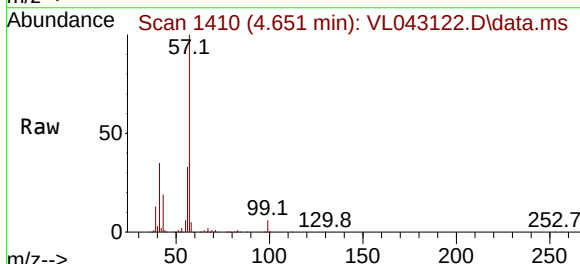
Instrument :
MSVOA_L
ClientSampleId :
VL1015ABSD01

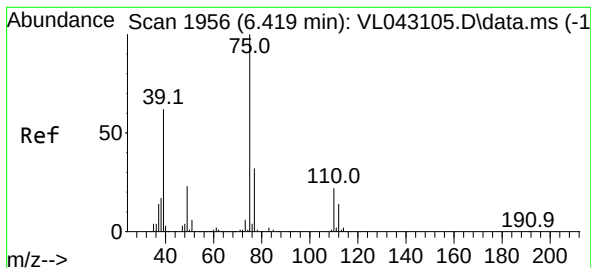
Tgt Ion: 69 Resp: 127541
Ion Ratio Lower Upper
69 100
41 147.1 120.5 180.7
100 35.6 29.0 43.4



#44
2,2,4-Trimethylpentane
Concen: 8.870 ppbv
RT: 4.651 min Scan# 1410
Delta R.T. 0.006 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

Tgt Ion: 57 Resp: 414817
Ion Ratio Lower Upper
57 100
41 34.4 26.3 39.5
56 31.1 25.9 38.9





#45

t-1,3-Dichloropropene

Concen: 9.773 ppbv

RT: 6.425 min Scan# 1956

Delta R.T. 0.006 min

Lab File: VL043122.D

Acq: 15 Oct 2025 15:57

Instrument :

MSVOA_L

ClientSampleId :

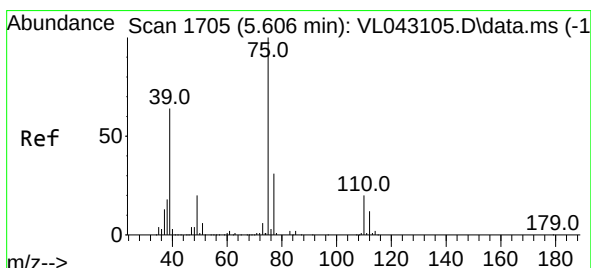
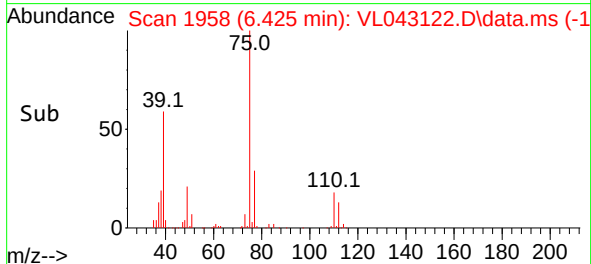
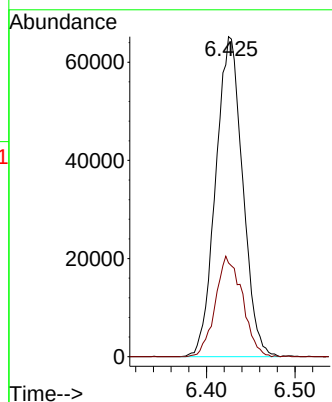
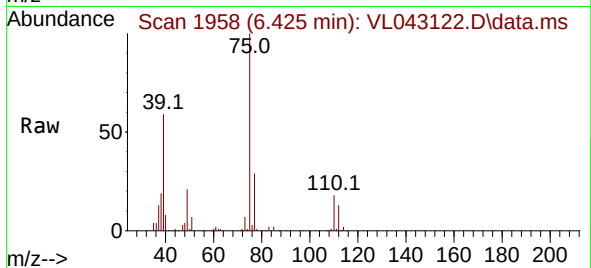
VL1015ABSD01

Tgt Ion: 75 Resp: 138082

Ion Ratio Lower Upper

75 100

77 29.3 25.4 38.2



#46

cis-1,3-Dichloropropene

Concen: 9.390 ppbv

RT: 5.609 min Scan# 1706

Delta R.T. 0.003 min

Lab File: VL043122.D

Acq: 15 Oct 2025 15:57

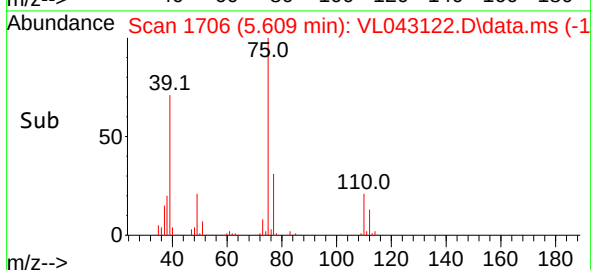
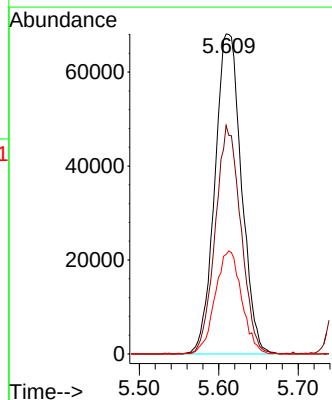
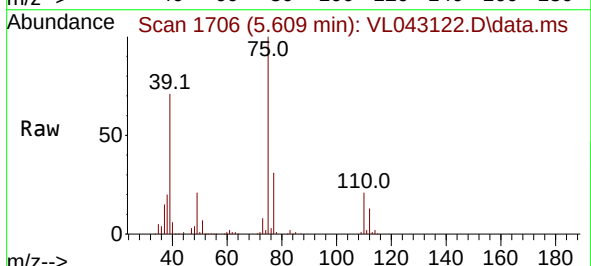
Tgt Ion: 75 Resp: 158488

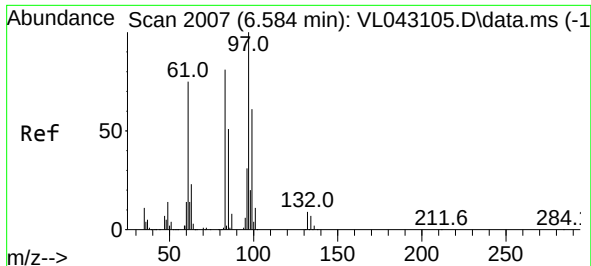
Ion Ratio Lower Upper

75 100

39 71.4 51.0 76.6

77 31.1 25.0 37.4



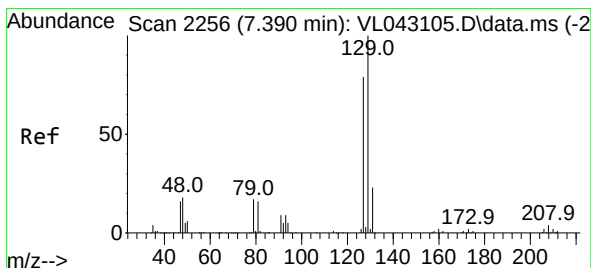
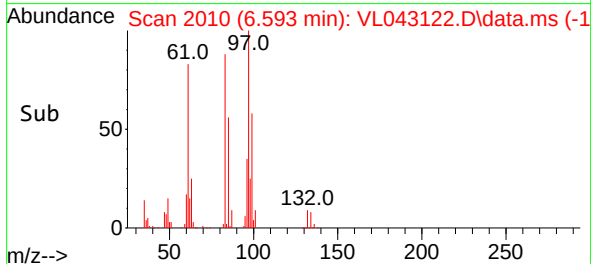
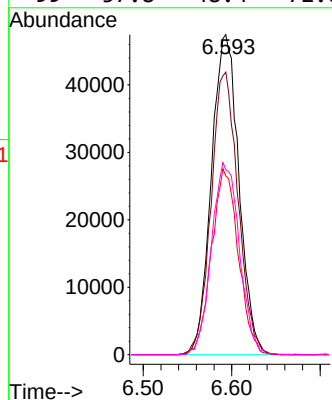
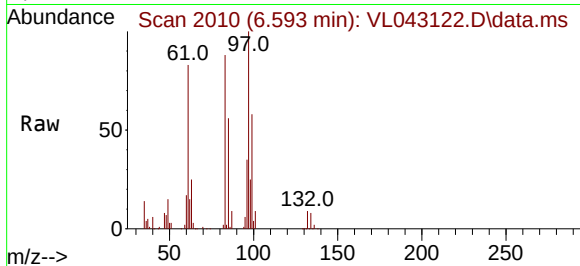


#47
1,1,2-Trichloroethane
Concen: 9.356 ppbv
RT: 6.593 min Scan# 20
Delta R.T. 0.009 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

Instrument :
MSVOA_L
ClientSampleId :
VL1015ABSD01

Tgt Ion: 97 Resp: 102387

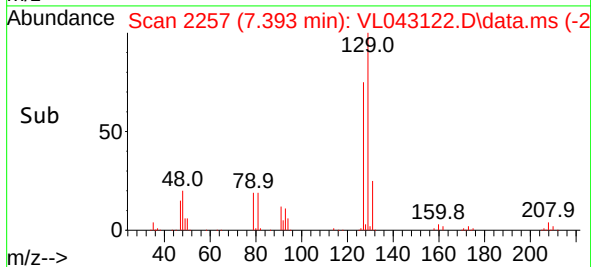
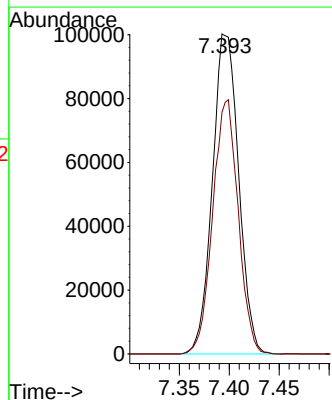
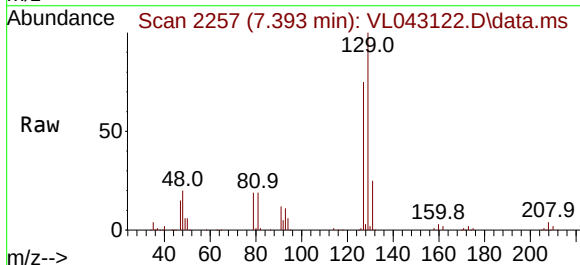
Ion	Ratio	Lower	Upper
97	100		
83	88.2	64.6	96.8
85	55.8	40.6	60.8
99	57.8	48.4	72.6

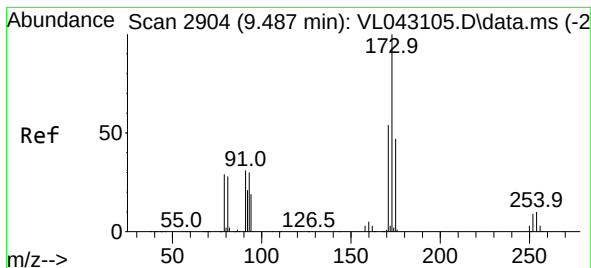


#48
Dibromochloromethane
Concen: 10.029 ppbv
RT: 7.393 min Scan# 2257
Delta R.T. 0.003 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

Tgt Ion: 129 Resp: 183501

Ion	Ratio	Lower	Upper
129	100		
127	77.0	39.3	117.9





#49

Bromoform

Concen: 10.102 ppbv

RT: 9.490 min Scan# 2904

Delta R.T. 0.003 min

Lab File: VL043122.D

Acq: 15 Oct 2025 15:57

Instrument :

MSVOA_L

ClientSampleId :

VL1015ABSD01

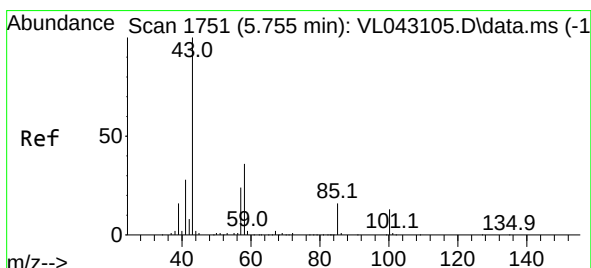
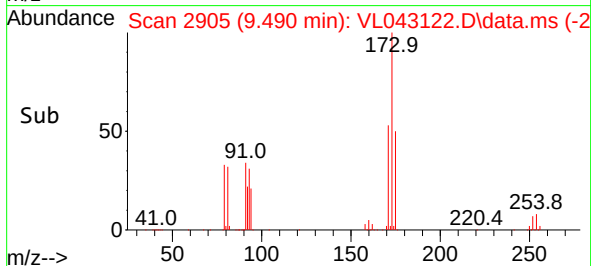
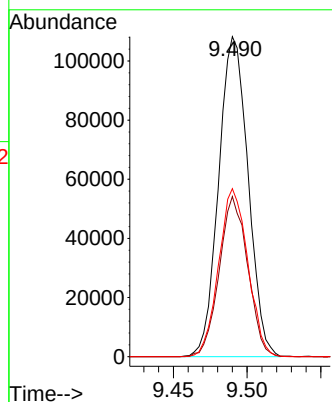
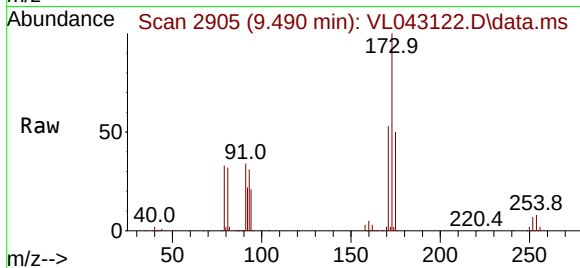
Tgt Ion:173 Resp: 150248

Ion Ratio Lower Upper

173 100

175 48.3 38.8 58.2

171 51.9 41.7 62.5



#50

4-Methyl-2-Pentanone

Concen: 8.535 ppbv

RT: 5.755 min Scan# 1751

Delta R.T. -0.000 min

Lab File: VL043122.D

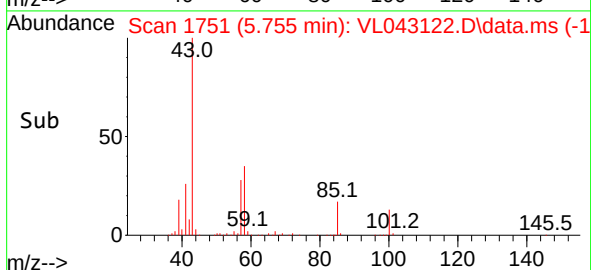
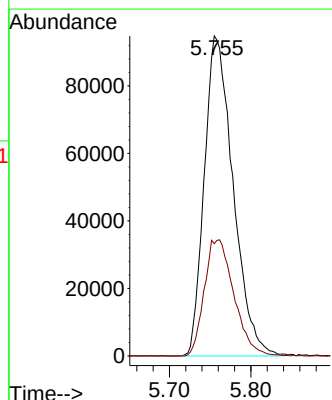
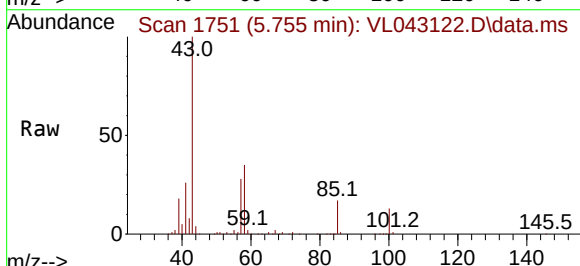
Acq: 15 Oct 2025 15:57

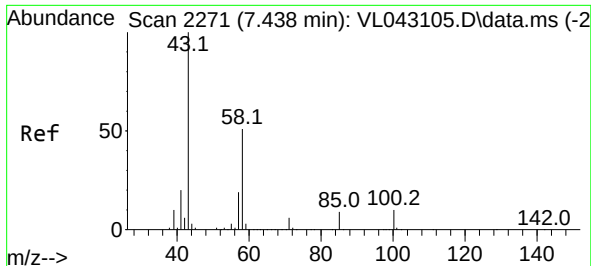
Tgt Ion: 43 Resp: 233019

Ion Ratio Lower Upper

43 100

58 37.4 29.1 43.7

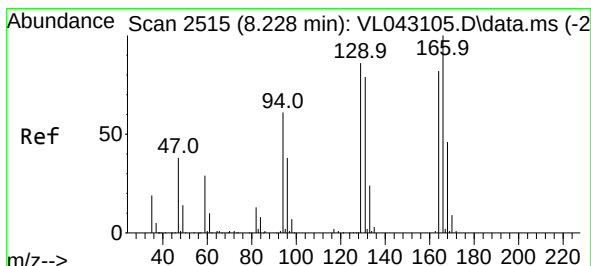
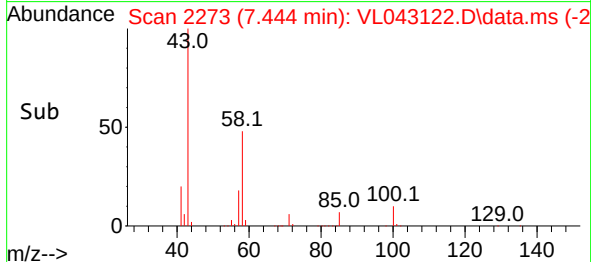
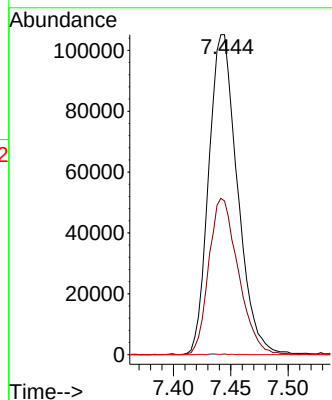
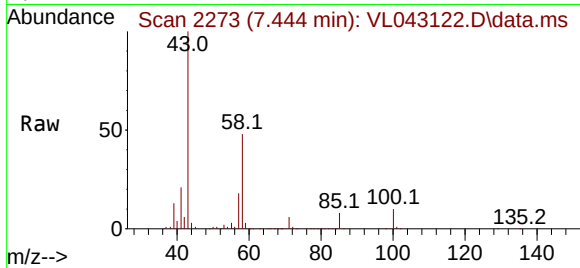




#51
2-Hexanone
Concen: 8.933 ppbv
RT: 7.444 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

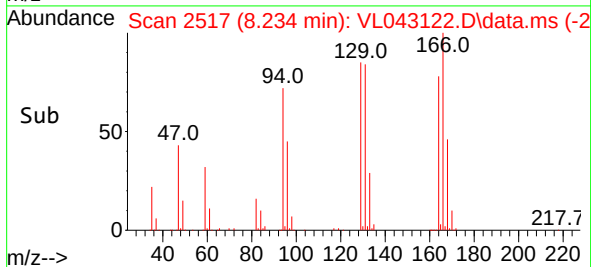
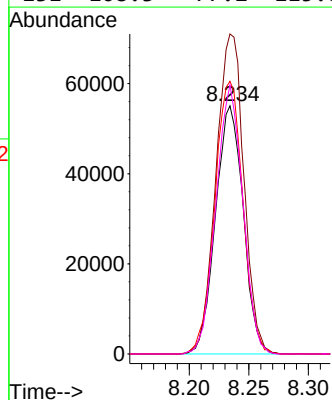
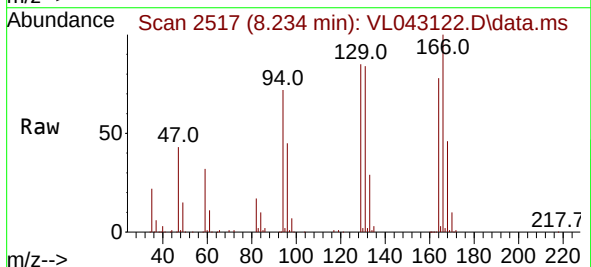
Instrument :
MSVOA_L
ClientSampleId :
VL1015ABSD01

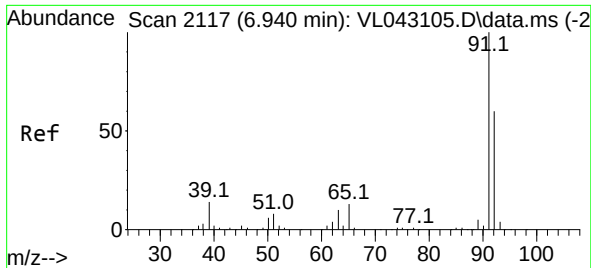
Tgt Ion: 43 Resp: 182931
Ion Ratio Lower Upper
43 100
58 50.5 40.4 60.6
98 0.2 0.1 0.1#



#52
Tetrachloroethene
Concen: 8.885 ppbv
RT: 8.234 min Scan# 2517
Delta R.T. 0.006 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

Tgt Ion: 164 Resp: 88818
Ion Ratio Lower Upper
164 100
166 129.0 97.6 146.4
129 109.8 84.5 126.7
131 108.3 77.2 115.8

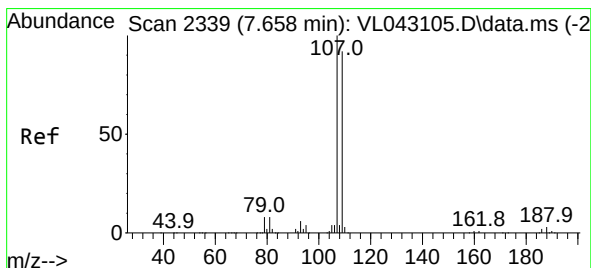
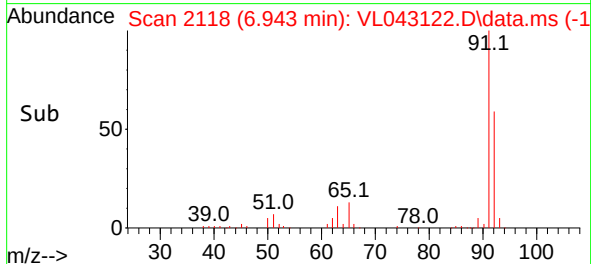
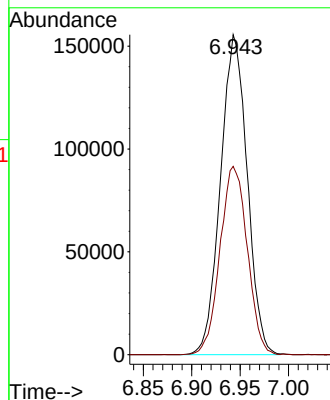
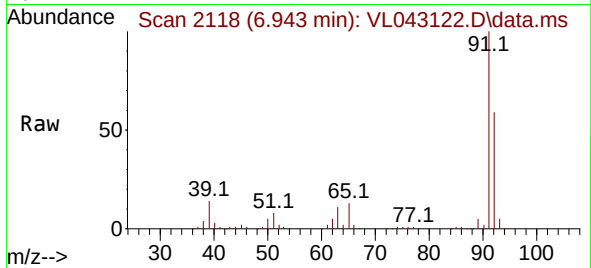




#53
Toluene
Concen: 9.066 ppbv
RT: 6.943 min Scan# 2117
Delta R.T. 0.003 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

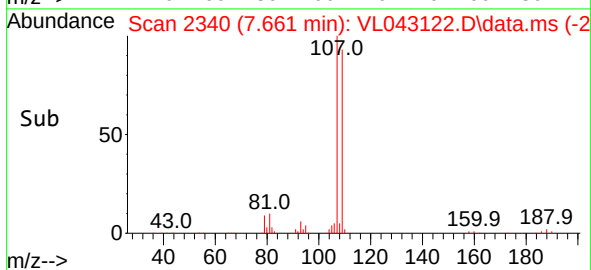
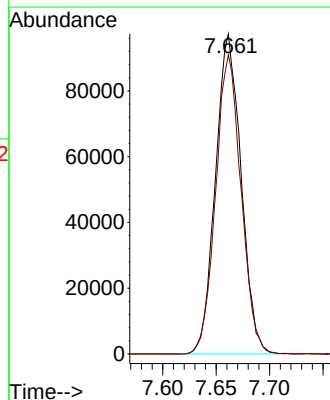
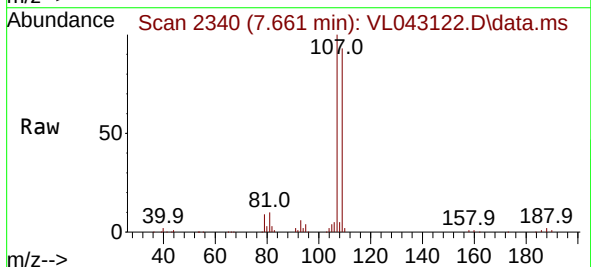
Instrument :
MSVOA_L
ClientSampleId :
VL1015ABSD01

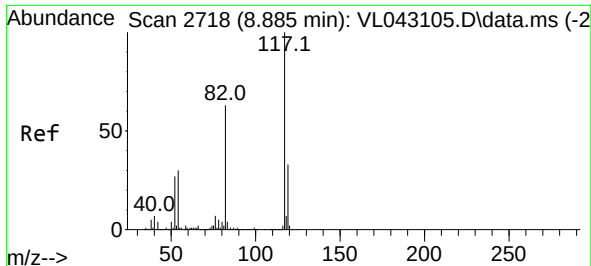
Tgt Ion: 91 Resp: 298271
Ion Ratio Lower Upper
91 100
92 60.3 48.8 73.2



#54
1,2-Dibromoethane
Concen: 9.452 ppbv
RT: 7.661 min Scan# 2340
Delta R.T. 0.003 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

Tgt Ion: 107 Resp: 162018
Ion Ratio Lower Upper
107 100
109 93.5 73.4 110.2

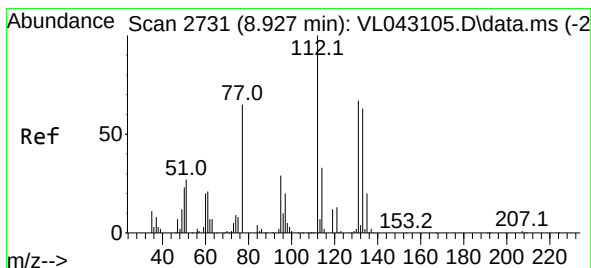
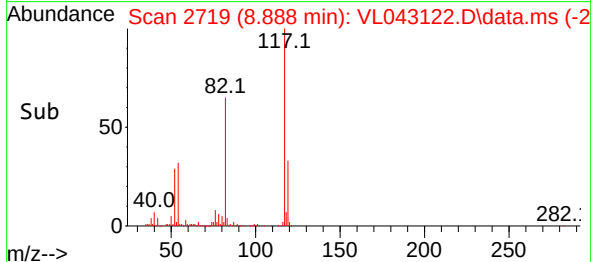
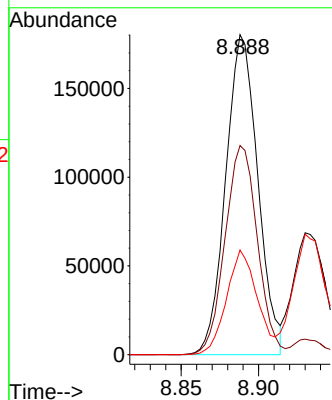
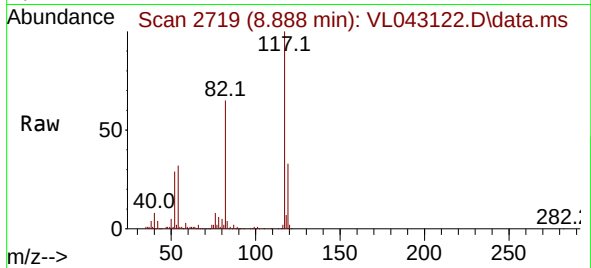




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2718
Delta R.T. 0.003 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

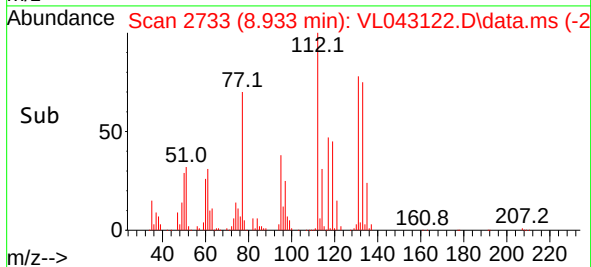
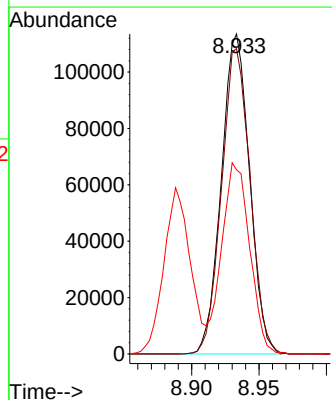
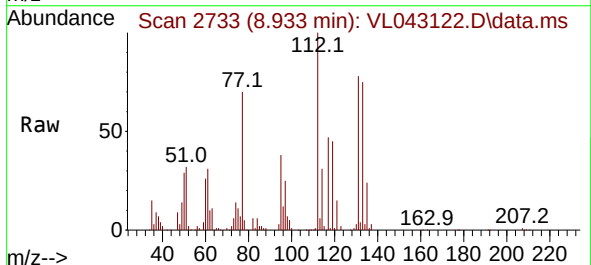
Instrument :
MSVOA_L
ClientSampleId :
VL1015ABSD01

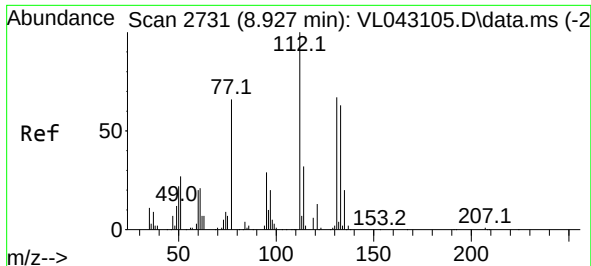
Tgt Ion:117 Resp: 260330
Ion Ratio Lower Upper
117 100
82 70.3 53.8 80.8
119 30.6 25.4 38.0



#56
1,1,1,2-Tetrachloroethane
Concen: 10.085 ppbv
RT: 8.933 min Scan# 2733
Delta R.T. 0.006 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

Tgt Ion:131 Resp: 165501
Ion Ratio Lower Upper
131 100
133 96.5 75.7 113.5
119 57.8 50.6 76.0

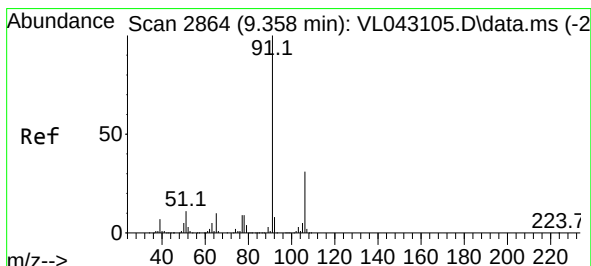
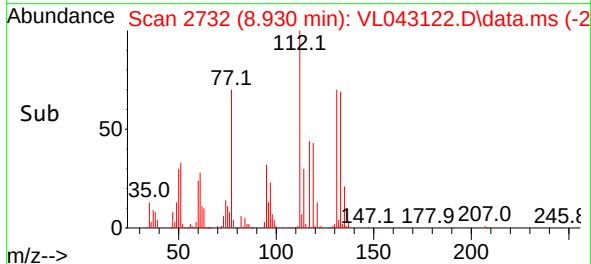
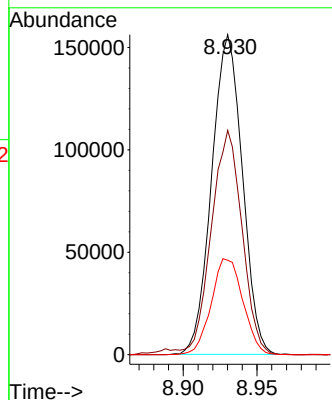
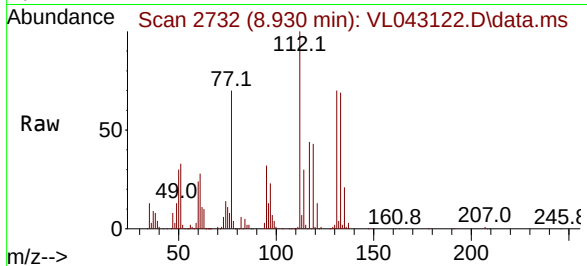




#57
Chlorobenzene
Concen: 9.261 ppbv
RT: 8.930 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

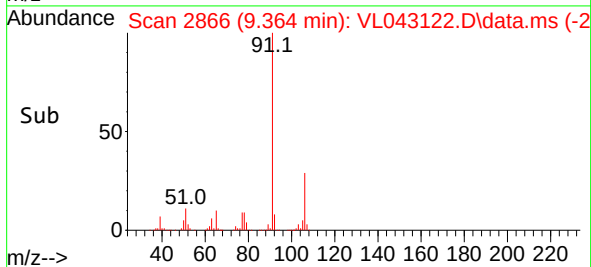
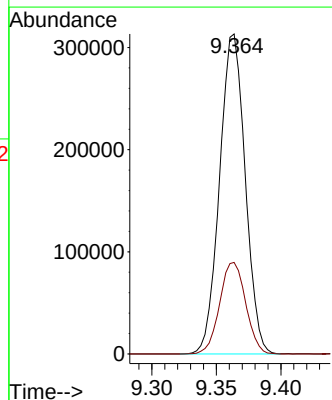
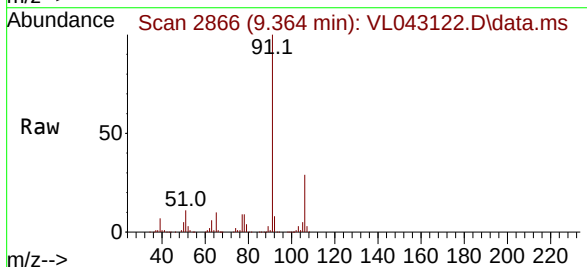
Instrument :
MSVOA_1
ClientSampleId :
VL1015ABSD01

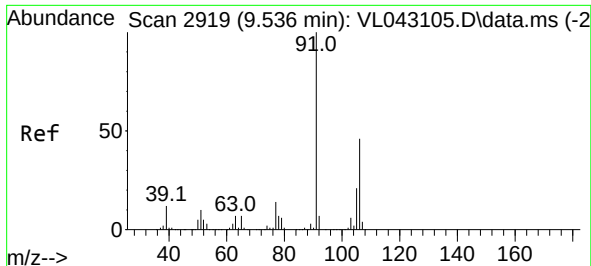
Tgt Ion:112 Resp: 225547
Ion Ratio Lower Upper
112 100
77 70.2 53.3 79.9
114 29.5 29.3 35.8



#58
Ethyl Benzene
Concen: 9.672 ppbv
RT: 9.364 min Scan# 2866
Delta R.T. 0.006 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

Tgt Ion: 91 Resp: 432119
Ion Ratio Lower Upper
91 100
106 28.6 24.8 37.2





#59

m/p-Xylene

Concen: 9.927 ppbv

RT: 9.542 min Scan# 2919

Delta R.T. 0.006 min

Lab File: VL043122.D

Acq: 15 Oct 2025 15:57

Instrument :

MSVOA_1

ClientSampleId :

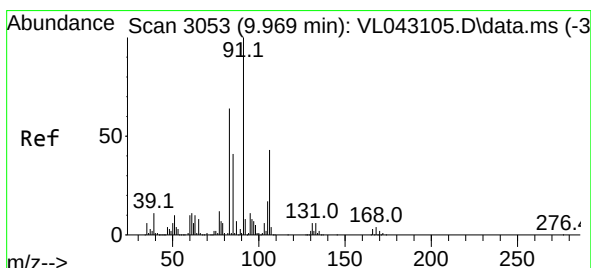
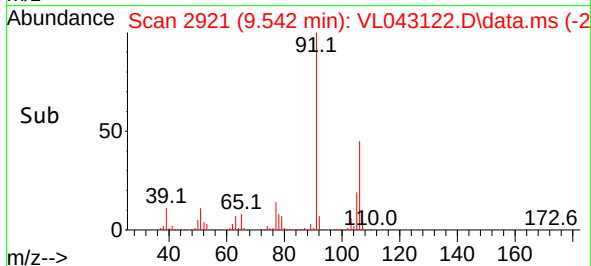
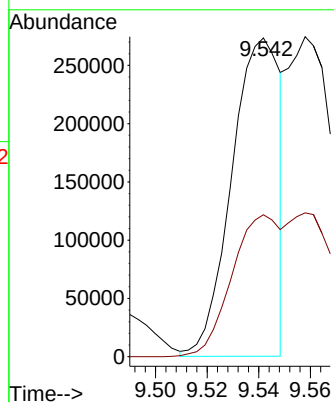
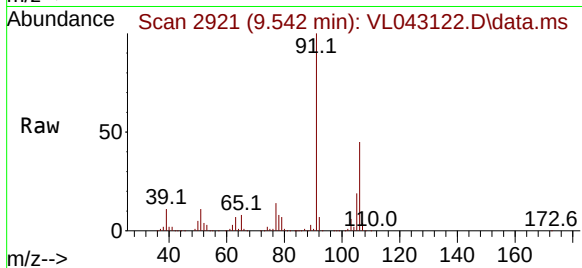
VL1015ABSD01

Tgt Ion: 91 Resp: 353747

Ion Ratio Lower Upper

91 100

106 0.0 38.0 57.0#



#60

o-Xylene

Concen: 9.657 ppbv

RT: 9.972 min Scan# 3054

Delta R.T. 0.003 min

Lab File: VL043122.D

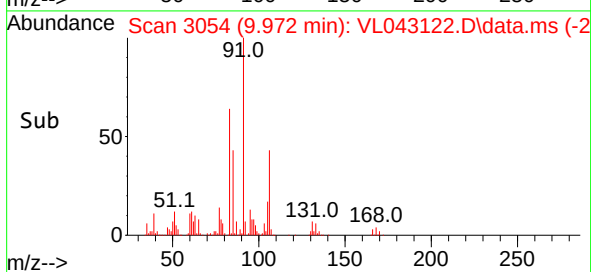
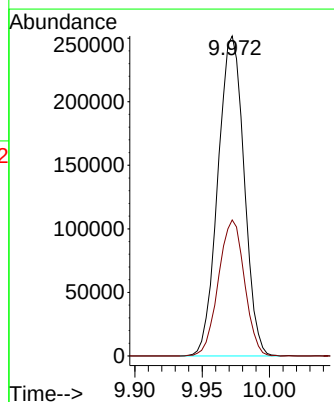
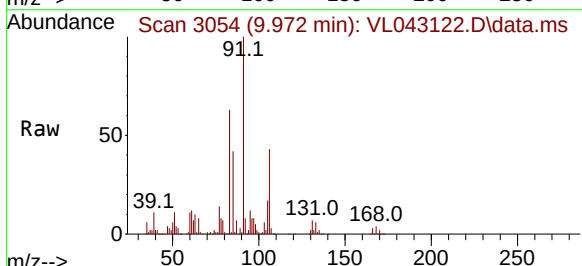
Acq: 15 Oct 2025 15:57

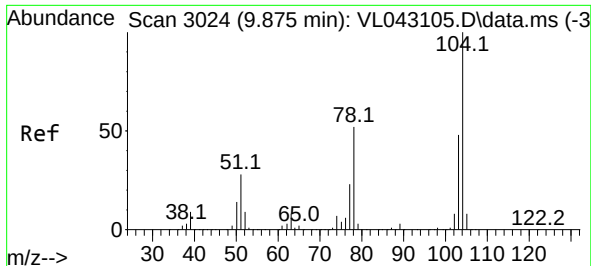
Tgt Ion: 91 Resp: 339885

Ion Ratio Lower Upper

91 100

106 42.2 21.9 65.8

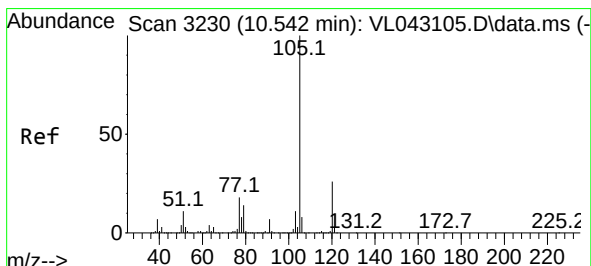
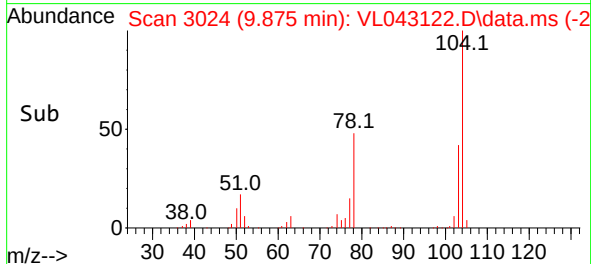
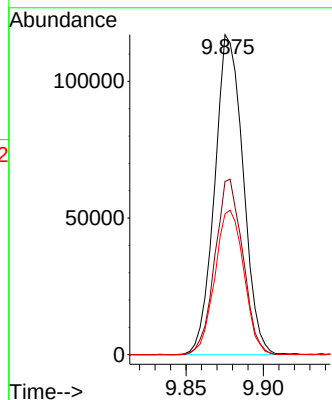
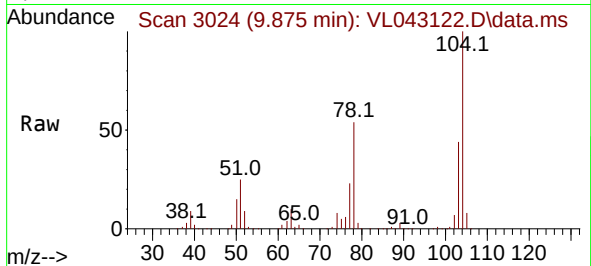




#61
Styrene
Concen: 9.408 ppbv
RT: 9.875 min Scan# 3024
Delta R.T. -0.000 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

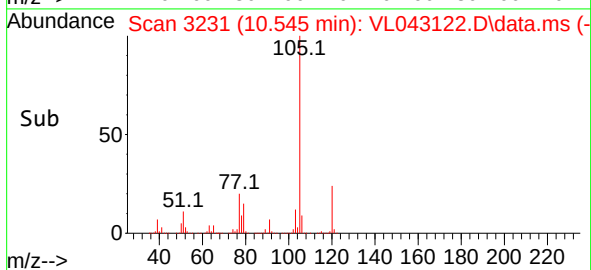
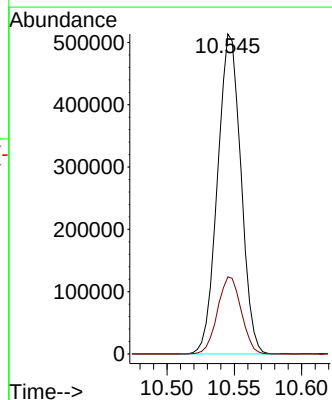
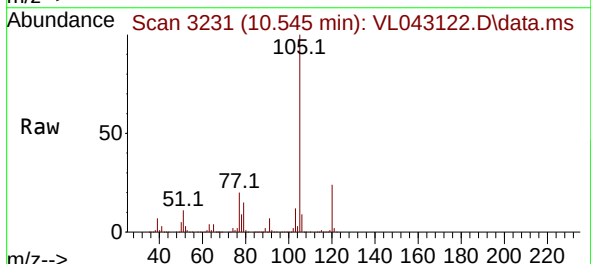
Instrument :
MSVOA_L
ClientSampleId :
VL1015ABSD01

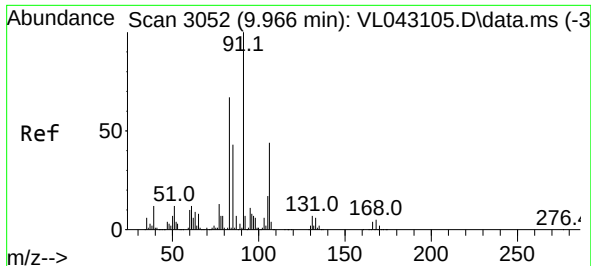
Tgt Ion:104 Resp: 149479
Ion Ratio Lower Upper
104 100
78 53.9 40.2 60.2
103 46.2 36.9 55.3



#62
Isopropylbenzene
Concen: 9.727 ppbv
RT: 10.545 min Scan# 3231
Delta R.T. 0.003 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

Tgt Ion:105 Resp: 618625
Ion Ratio Lower Upper
105 100
120 24.4 20.2 30.4





#63

1,1,2,2-Tetrachloroethane

Concen: 8.964 ppbv

RT: 9.969 min Scan# 3052

Delta R.T. 0.003 min

Lab File: VL043122.D

Acq: 15 Oct 2025 15:57

Instrument :

MSVOA_L

ClientSampleId :

VL1015ABSD01

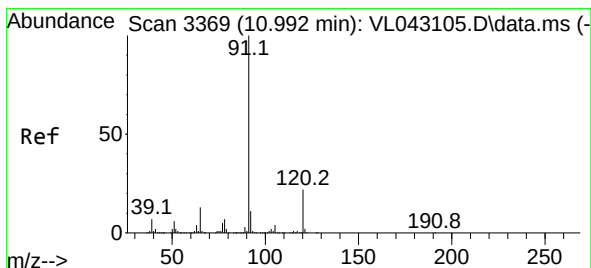
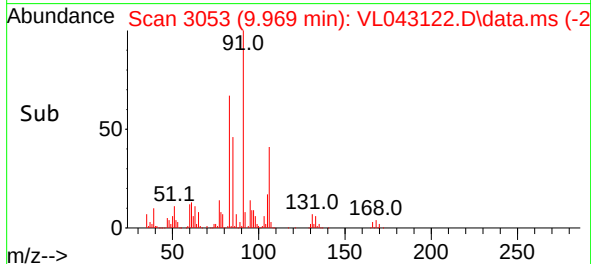
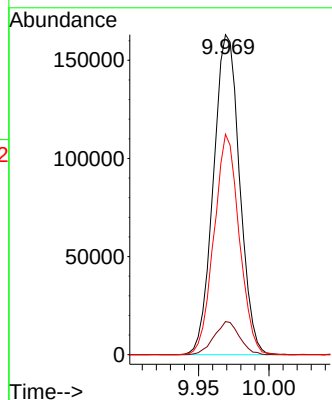
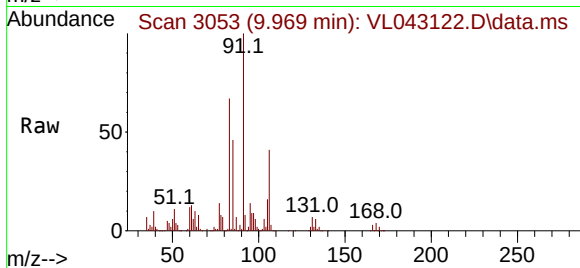
Tgt Ion: 83 Resp: 211262

Ion Ratio Lower Upper

83 100

131 10.0 4.8 14.3

85 66.3 32.0 96.0



#64

n-propylbenzene

Concen: 9.273 ppbv

RT: 10.995 min Scan# 3370

Delta R.T. 0.003 min

Lab File: VL043122.D

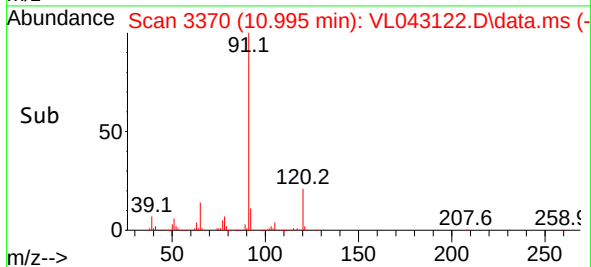
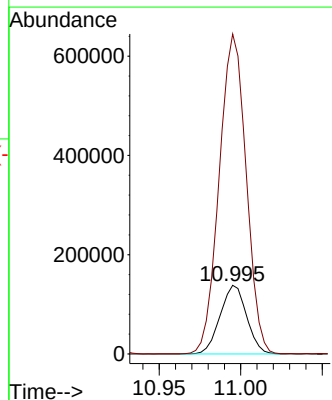
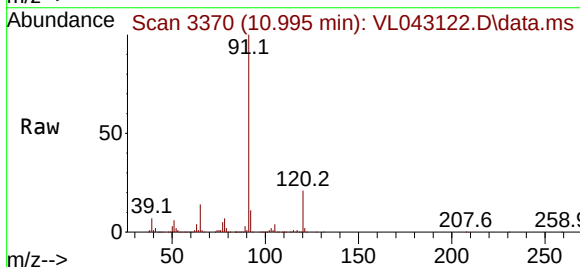
Acq: 15 Oct 2025 15:57

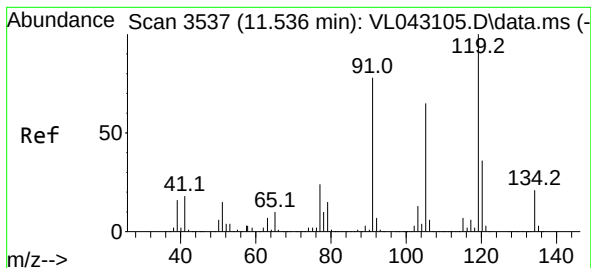
Tgt Ion: 120 Resp: 156132

Ion Ratio Lower Upper

120 100

91 475.6 361.6 542.4





#65

tert-Butylbenzene

Concen: 9.200 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. 0.003 min

Lab File: VL043122.D

Acq: 15 Oct 2025 15:57

Instrument :

MSVOA_L

ClientSampleId :

VL1015ABSD01

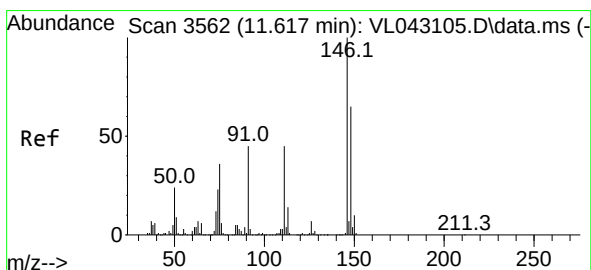
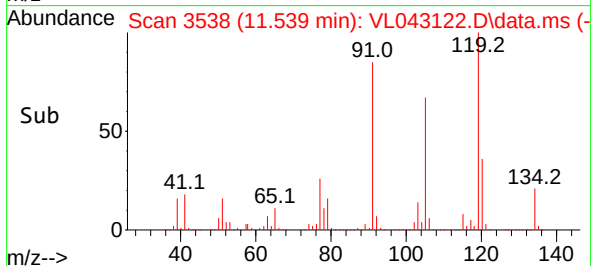
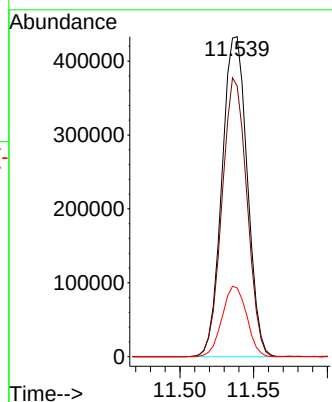
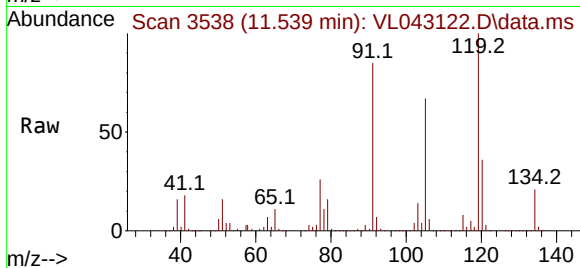
Tgt Ion:119 Resp: 516711

Ion Ratio Lower Upper

119 100

91 85.7 63.4 95.0

134 21.4 17.3 25.9



#66

Benzyl Chloride

Concen: 8.686 ppbv

RT: 11.620 min Scan# 3563

Delta R.T. 0.003 min

Lab File: VL043122.D

Acq: 15 Oct 2025 15:57

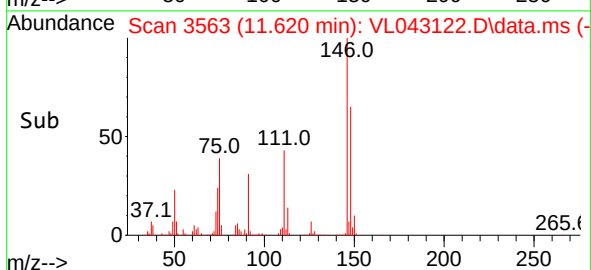
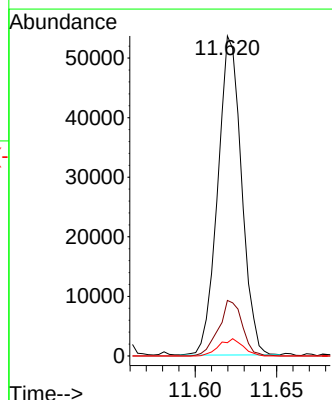
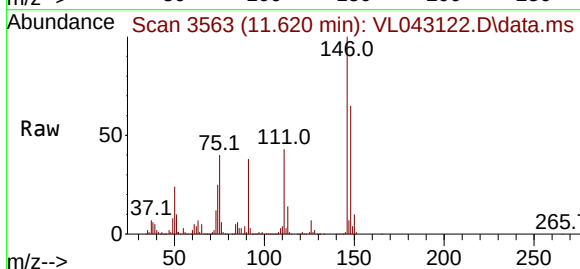
Tgt Ion: 91 Resp: 54290

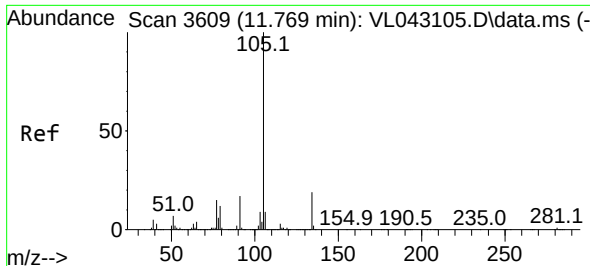
Ion Ratio Lower Upper

91 100

126 17.3 14.6 22.0

128 5.5 4.6 6.8

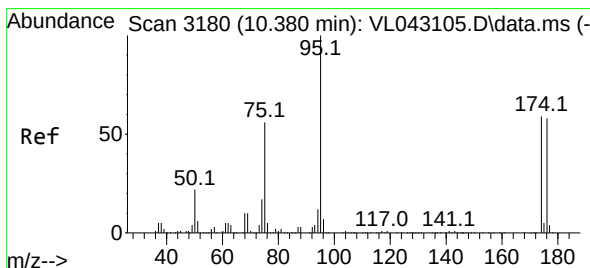
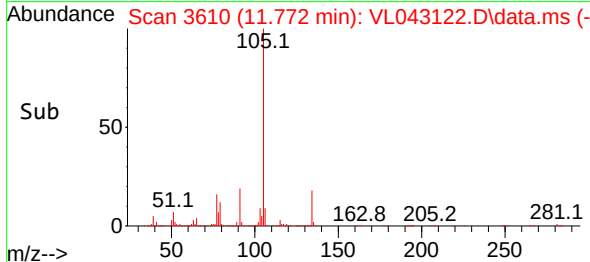
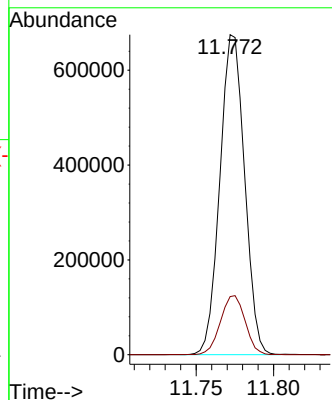
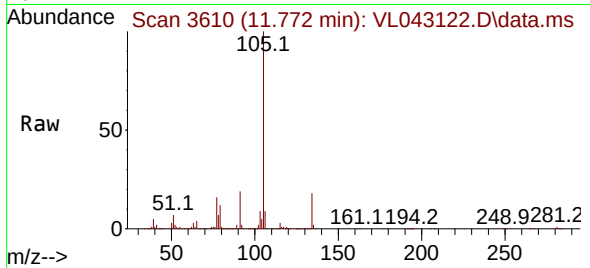




#67
 sec-Butylbenzene
 Concen: 9.378 ppbv
 RT: 11.772 min Scan# 3610
 Delta R.T. 0.003 min
 Lab File: VL043122.D
 Acq: 15 Oct 2025 15:57

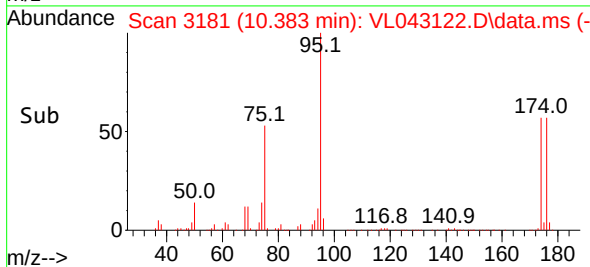
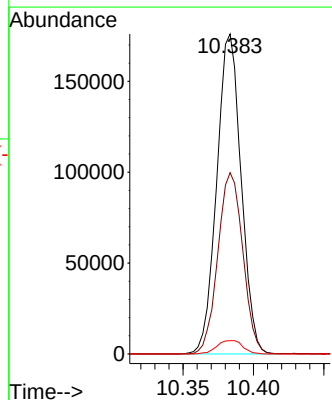
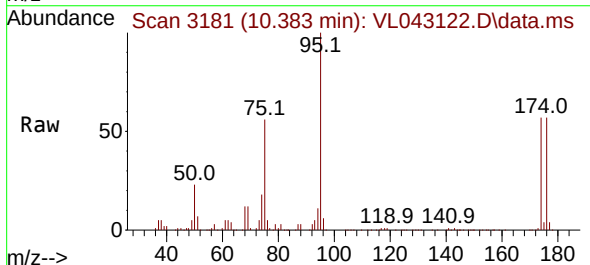
Instrument :
 MSVOA_1
 ClientSampleId :
 VL1015ABSD01

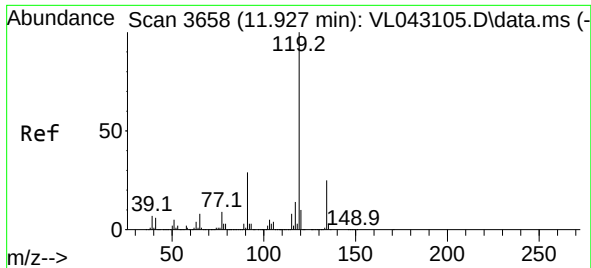
Tgt Ion:105 Resp: 747469
 Ion Ratio Lower Upper
 105 100
 134 18.5 15.5 23.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.484 ppbv
 RT: 10.383 min Scan# 3181
 Delta R.T. 0.003 min
 Lab File: VL043122.D
 Acq: 15 Oct 2025 15:57

Tgt Ion: 95 Resp: 212144
 Ion Ratio Lower Upper
 95 100
 174 58.2 48.3 72.5
 175 4.5 3.8 5.8

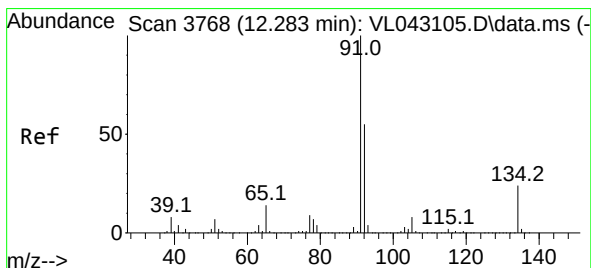
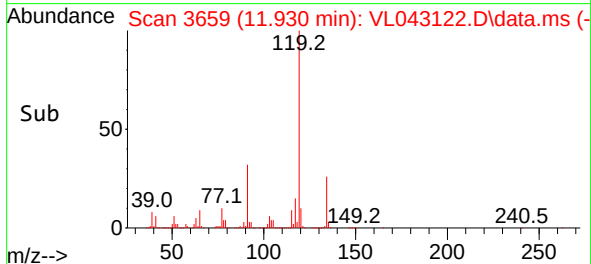
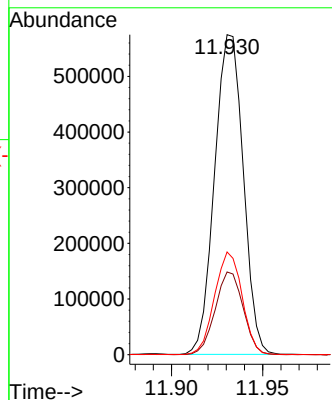
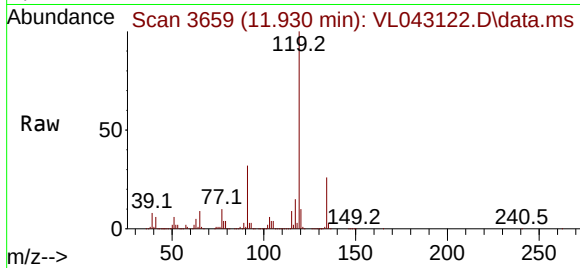




#69
p-Isopropyltoluene
Concen: 9.275 ppbv
RT: 11.930 min Scan# 3659
Delta R.T. 0.003 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

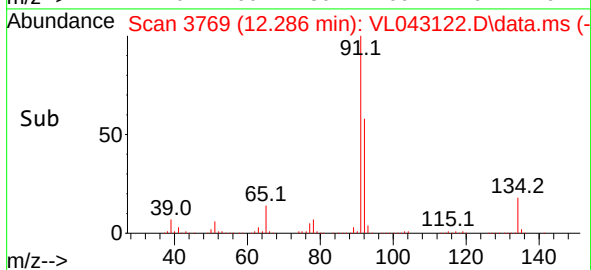
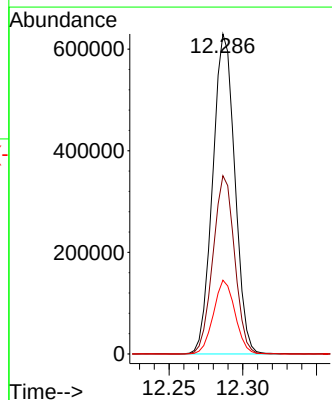
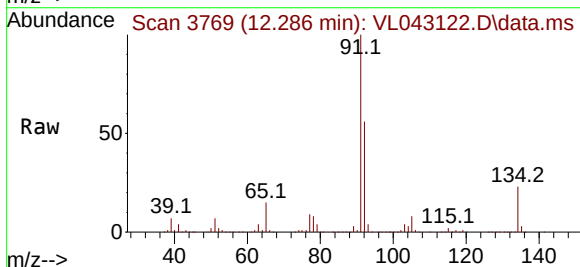
Instrument :
MSVOA_L
ClientSampleId :
VL1015ABSD01

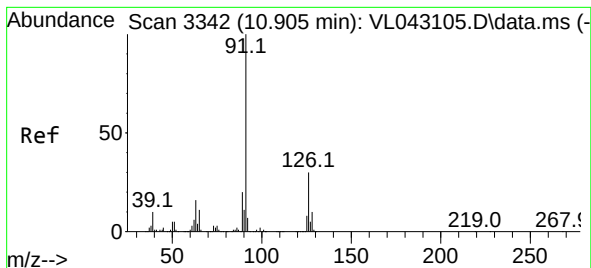
Tgt Ion:119 Resp: 628190
Ion Ratio Lower Upper
119 100
134 25.4 20.3 30.5
91 31.0 22.6 33.8



#70
n-Butylbenzene
Concen: 9.843 ppbv
RT: 12.286 min Scan# 3769
Delta R.T. 0.003 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

Tgt Ion: 91 Resp: 656970
Ion Ratio Lower Upper
91 100
92 54.6 44.5 66.7
134 22.5 19.3 28.9





#71

2-Chlorotoluene

Concen: 9.800 ppbv

RT: 10.908 min Scan# 31

Delta R.T. 0.003 min

Lab File: VL043122.D

Acq: 15 Oct 2025 15:57

Instrument :

MSVOA_L

ClientSampleId :

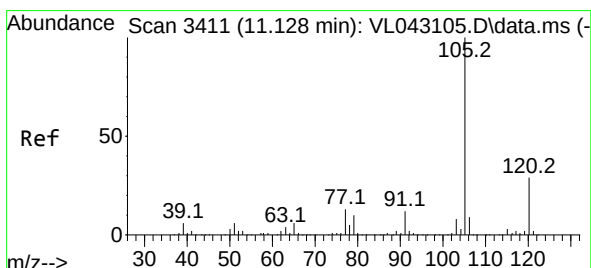
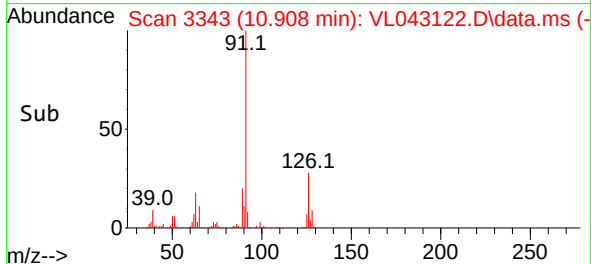
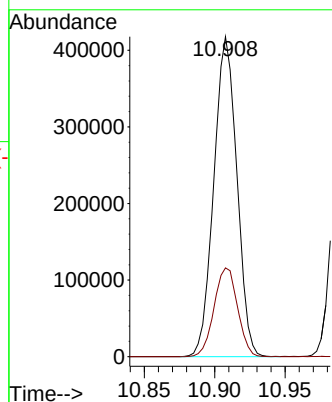
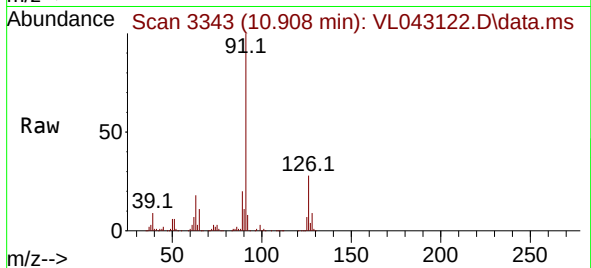
VL1015ABSD01

Tgt Ion: 91 Resp: 475356

Ion Ratio Lower Upper

91 100

126 28.3 12.0 48.0



#72

4-Ethyltoluene

Concen: 9.743 ppbv

RT: 11.131 min Scan# 3412

Delta R.T. 0.003 min

Lab File: VL043122.D

Acq: 15 Oct 2025 15:57

Tgt Ion: 105 Resp: 421655

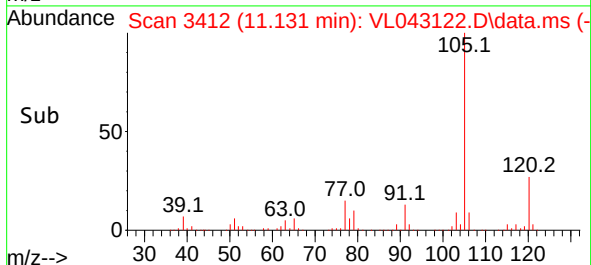
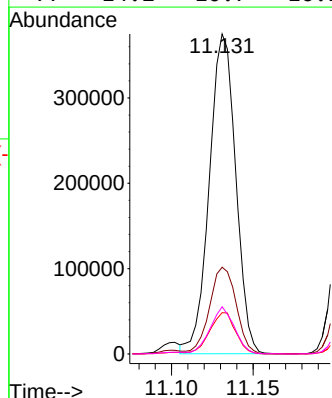
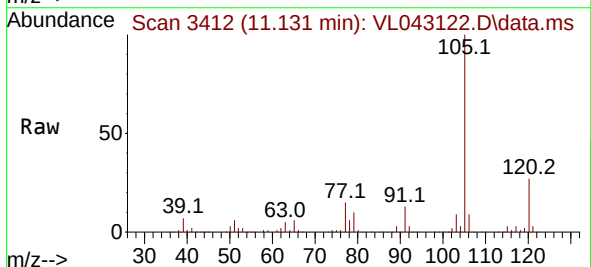
Ion Ratio Lower Upper

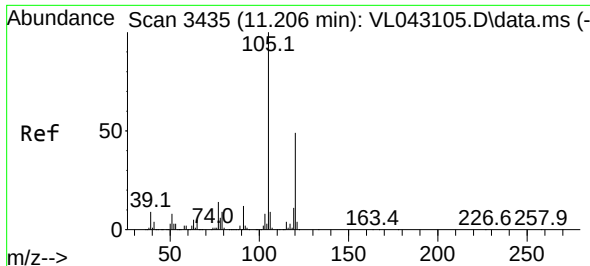
105 100

120 28.5 24.2 36.4

91 13.2 10.0 15.0

77 14.2 10.7 16.1

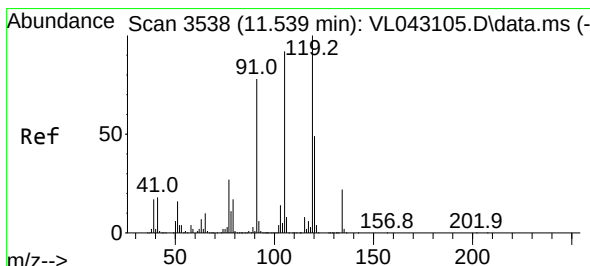
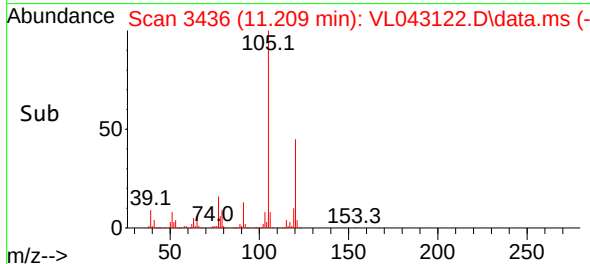
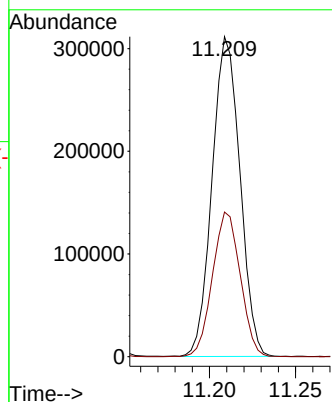
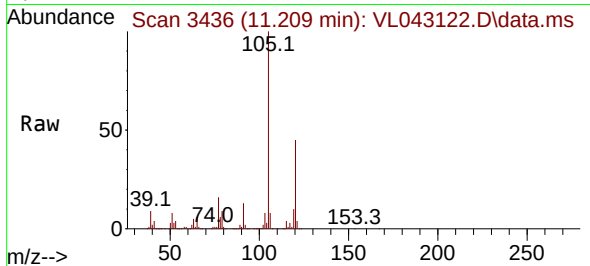




#73
1,3,5-Trimethylbenzene
Concen: 9.818 ppbv
RT: 11.209 min Scan# 3436
Delta R.T. 0.003 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

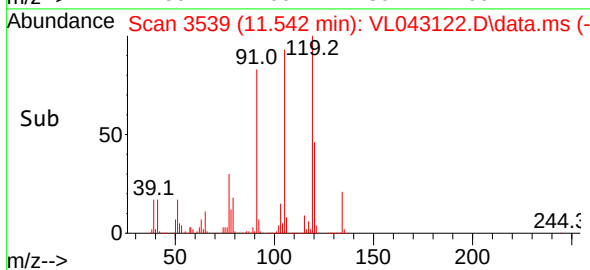
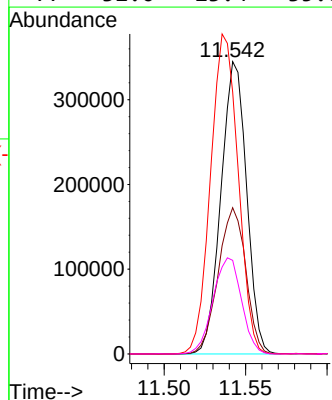
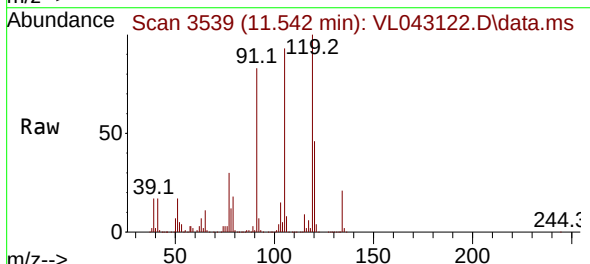
Instrument :
MSVOA_L
ClientSampleId :
VL1015ABSD01

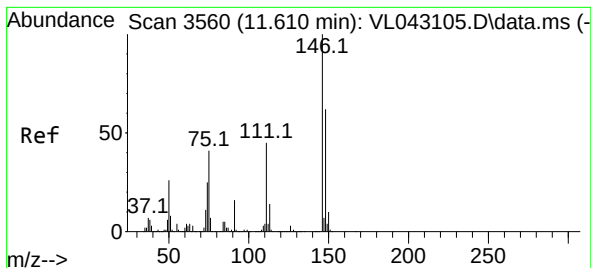
Tgt Ion:105 Resp: 350402
Ion Ratio Lower Upper
105 100
120 45.2 39.0 58.6



#74
1,2,4-Trimethylbenzene
Concen: 9.429 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. 0.003 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

Tgt Ion:105 Resp: 376592
Ion Ratio Lower Upper
105 100
120 50.0 42.8 64.2
91 89.5 68.3 102.5
77 32.0 23.4 35.0





#75

1,3-Dichlorobenzene

Concen: 9.519 ppbv

RT: 11.613 min Scan# 3560

Delta R.T. 0.003 min

Lab File: VL043122.D

Acq: 15 Oct 2025 15:57

Instrument :

MSVOA_1

ClientSampleId :

VL1015ABSD01

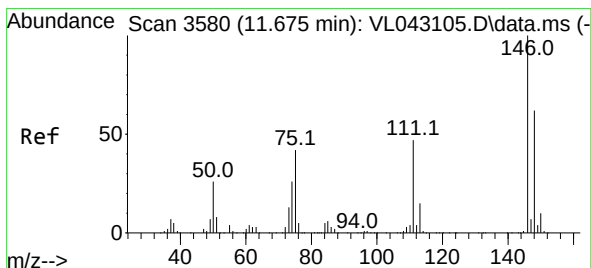
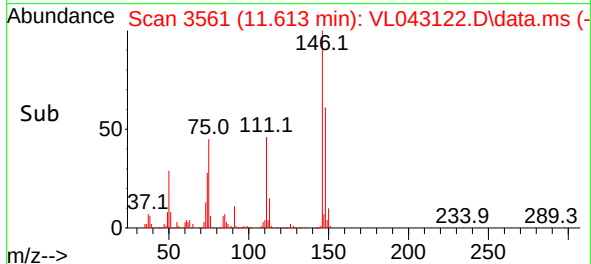
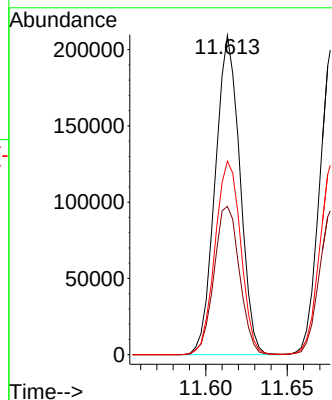
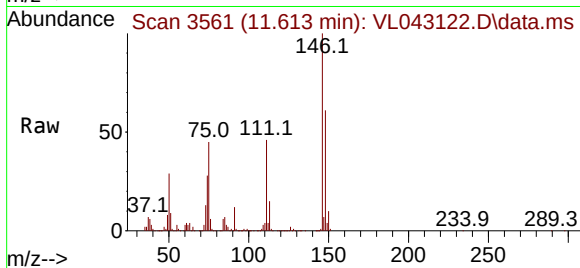
Tgt Ion:146 Resp: 220504

Ion Ratio Lower Upper

146 100

111 48.1 23.3 69.9

148 63.0 31.6 95.0



#76

1,4-Dichlorobenzene

Concen: 9.438 ppbv

RT: 11.678 min Scan# 3581

Delta R.T. 0.003 min

Lab File: VL043122.D

Acq: 15 Oct 2025 15:57

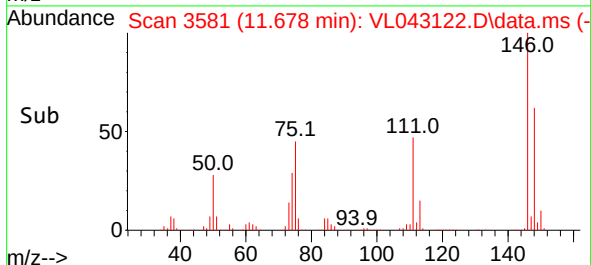
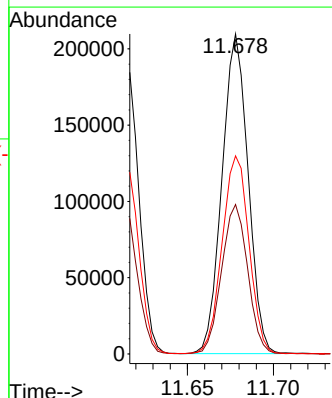
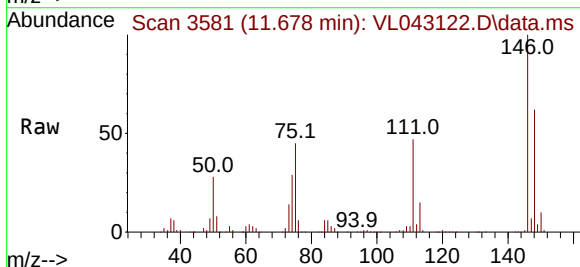
Tgt Ion:146 Resp: 220451

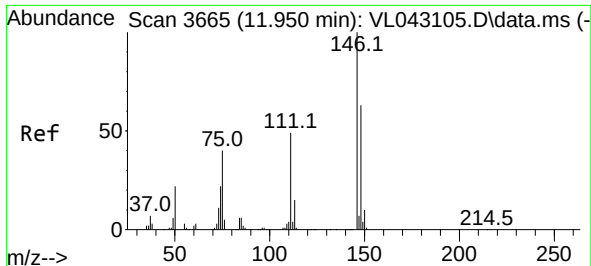
Ion Ratio Lower Upper

146 100

111 47.2 22.4 67.0

148 64.4 31.6 94.7

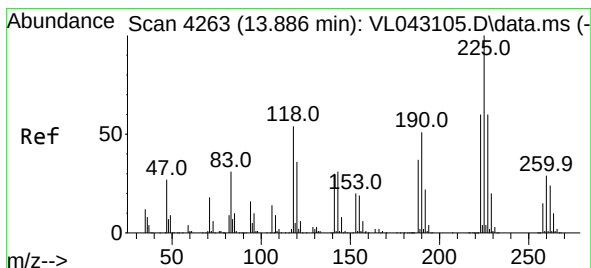
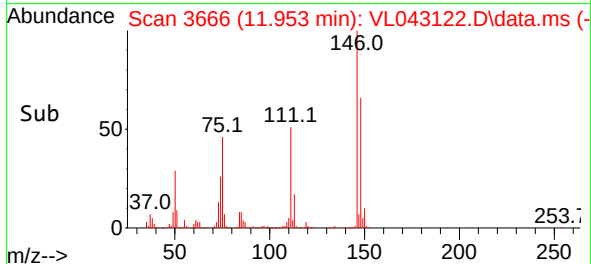
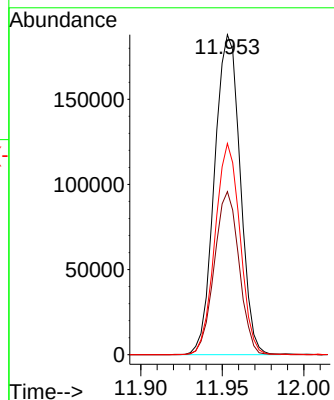
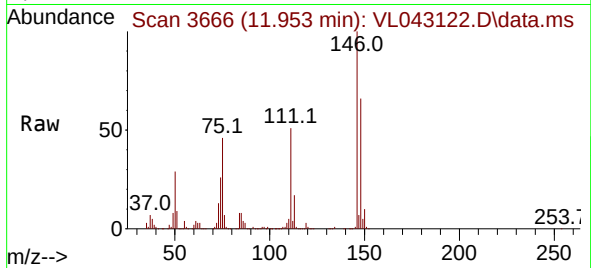




#77
1,2-Dichlorobenzene
Concen: 9.182 ppbv
RT: 11.953 min Scan# 30
Delta R.T. 0.003 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

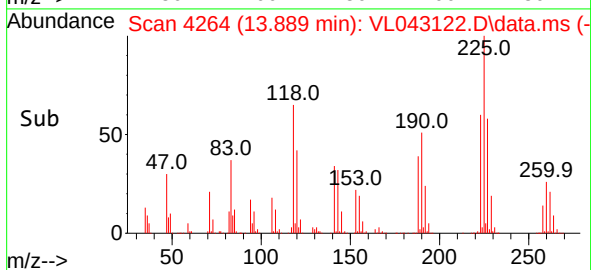
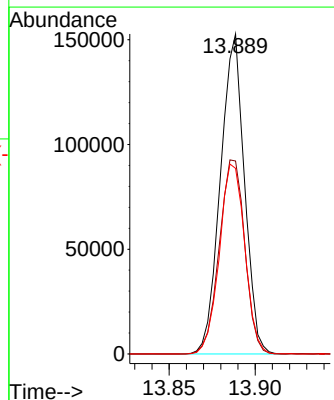
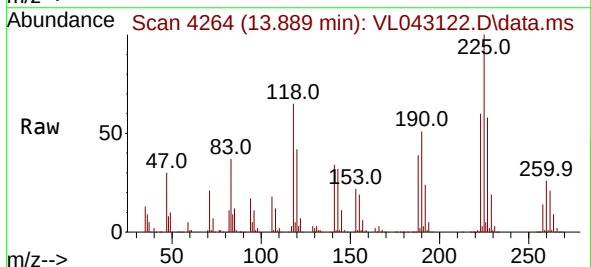
Instrument :
MSVOA_L
ClientSampleId :
VL1015ABSD01

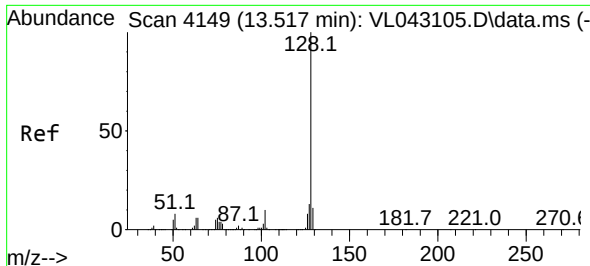
Tgt Ion:146 Resp: 205757
Ion Ratio Lower Upper
146 100
111 49.2 24.0 72.0
148 64.3 31.1 93.3



#78
Hexachloro-1,3-Butadiene
Concen: 8.533 ppbv
RT: 13.889 min Scan# 4264
Delta R.T. 0.003 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

Tgt Ion:225 Resp: 148058
Ion Ratio Lower Upper
225 100
223 64.6 50.2 75.4
227 62.8 49.6 74.4

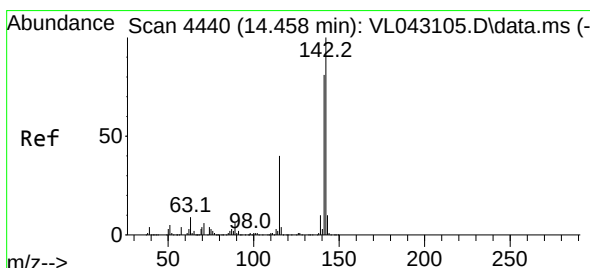
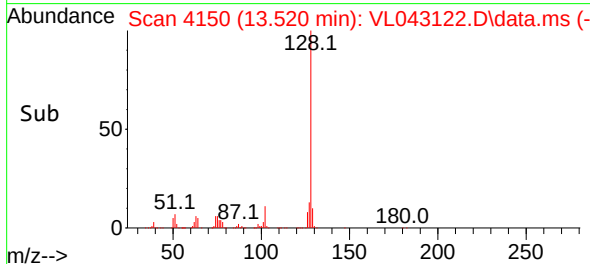
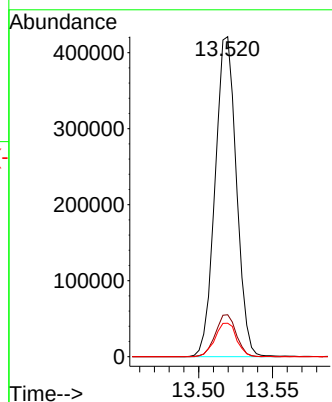
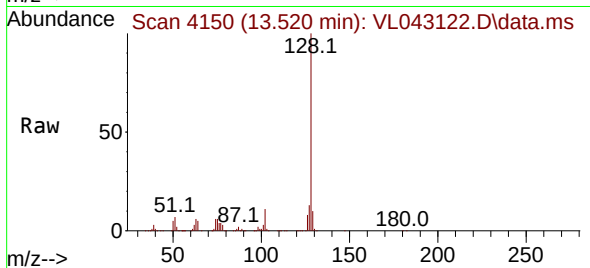




#79
Naphthalene
Concen: 10.128 ppbv
RT: 13.520 min Scan# 4149
Delta R.T. 0.003 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

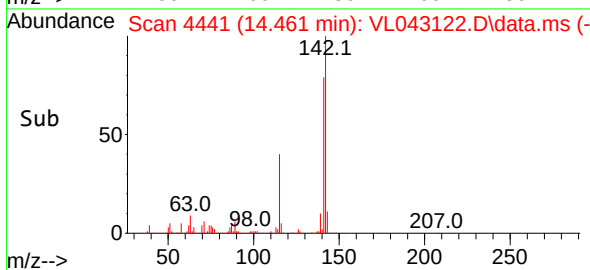
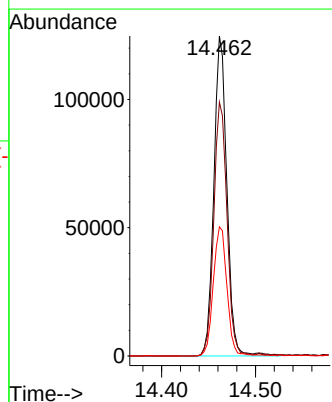
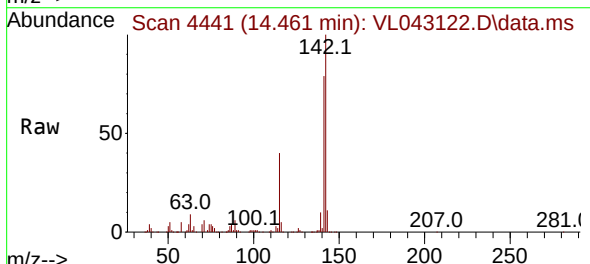
Instrument :
MSVOA_L
ClientSampleId :
VL1015ABSD01

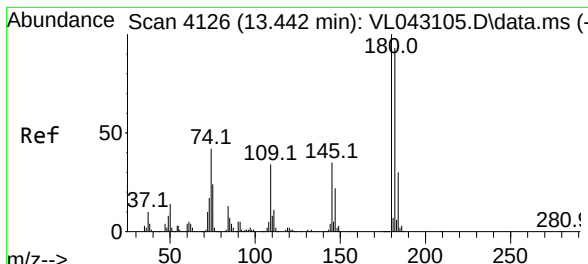
Tgt Ion:128 Resp: 422818
Ion Ratio Lower Upper
128 100
127 13.1 10.5 15.7
129 10.5 9.1 13.7



#80
Naphthalene,2-methyl-
Concen: 11.049 ppbv
RT: 14.461 min Scan# 4441
Delta R.T. 0.003 min
Lab File: VL043122.D
Acq: 15 Oct 2025 15:57

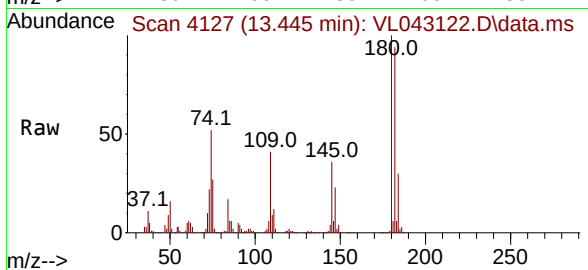
Tgt Ion:142 Resp: 120171
Ion Ratio Lower Upper
142 100
141 81.9 64.6 97.0
115 42.5 30.2 45.4





#81
 1,2,4-Trichlorobenzene
 Concen: 9.717 ppbv
 RT: 13.445 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL043122.D
 Acq: 15 Oct 2025 15:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1015ABSD01



Tgt Ion:	180	Resp:	168366
Ion	Ratio	Lower	Upper
180	100		
182	95.2	75.5	113.3
184	30.3	23.9	35.9

