



SHIPPING DOCUMENTS

Client Contact Information				Bottle Order ID : B2505020				Courier : F GALDUN				1 of 2 COCs																	
Client ID : GFEL01 Project ID : 10-Elm St.				Sampler Name(s) : FRANK GALDUN				Analysis				Matrix																	
Customer Name : GFE LLC Address : 58 Nokomis Ave City : Lake Hiawatha State : NJ Zip Code : 07034 Country :				Project Manager : Frank galdun				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified																					
				Phone Number : 646-542-3465																									
				Fax Number : 973-334-1692																									
				Site Details: 4701 WHITE PLAINS RD BRONX, NY																									
Analysis Turnaround Time 5 DAY				Standard : 10 business days OR				Data Package Type : RESULTS ONLY																					
Rush (Specify): 5 Days				EDD Type : PDF																									
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15	Indoor/Ambient Air	Soil Gas												
SU1	5/13/25	8:21	10:21	30	6	70	70	-30	-5.5	10550	10609	6 L	50	VL042399.D	1		1												
Temperature (Fahrenheit) <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> <td></td> </tr> </table>											Ambient	Maximum	Minimum	Start				Stop				GC/MS Analyst Signature (TO-15) Sust							
	Ambient	Maximum	Minimum																										
Start																													
Stop																													
Pressure (Inches of Hg) <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> <td></td> </tr> </table>											Ambient	Maximum	Minimum	Start				Stop				** Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY: PCE, TCE, cis-1,2-DCE, 1,1,1-TCA, 1,1-DCE, VINYL CHLORIDE Please follow the instructions on the back of this COC.							
	Ambient	Maximum	Minimum																										
Start																													
Stop																													
Special Instructions/QC Requirements & Comments :																													
Suspected Contamination: High Medium Low PID Readings: 0.0																													
Sampling site (State):																													
Quick Connector required : NO																													
Canisters Shipped by: Sust				Date/Time: 05/12/25				Canisters Received by: CP				Date/Time: 5/14/25 11:00																	
Samples Relinquished by: REDA				Date/Time: 5/13/25				Received by:				Date/Time:																	
Relinquished by:				Date/Time:				Received by:				Date/Time:																	

Client Contact Information				Bottle Order ID : B2505020				Courier : F. Galdun				2 of 2 COCs					
Client ID : GFEL01 Project ID : FO-Elmridge St.				Sampler Name(s) : FRANK GALDUN				Analysis				Matrix					
Customer Name : GFE LLC Address : 58 Nokomis Ave City : Lake Hiawatha State : NJ Zip Code : 07034 Country :				Project Manager : Frank galdun				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified									
				Phone Number : 646-542-3465													
				Fax Number : 973-334-1692													
				Site Details: 4701 WHITE PLAINS RD. BRONX, NY													
Analysis Turnaround Time 5 DAY				Data Package Type : RESULTS ONLY													
Standard : 10 business days OR				Rush (Specify): 5 Days				EDD Type : PDF									
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15	Indoor Ambient Air	Soil Gas
SHT	5/13/25	8:18	10:18	29	70	70		-30	-5.5	10503	10285	6 L	50	VL042399.D	1	1	
IA1	Temperature (Fahrenheit)									GC/MS Analyst Signature (TO-15) SHT							
		Ambient	Maximum	Minimum													
	Start																
	Stop																
	Pressure (Inches of Hg)									** Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY: PCE, TCE, cis-1,2-DCE, 1,1,1-TCA, 1,1-DCE, VINYL CHLORIDE Please follow the instructions on the back of this COC.							
		Ambient	Maximum	Minimum													
	Start																
	Stop																
Special Instructions/QC Requirements & Comments :																	
Suspected Contamination: High Medium Low PID Readings 0.0																	
Sampling site (State):																	
Quick Connector required : NO																	
Canisters Shipped by: SHT				Date/Time: 5/12/25				Canisters Received by: CP				Date/Time: 5/14/25 11:00				B2505020 - 1	
Samples Relinquished by: SHT				Date/Time: 5/13/25				Received by:				Date/Time:					
Relinquished by:				Date/Time:				Received by:				Date/Time:					

Laboratory Certification

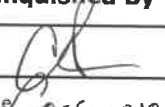
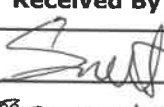
Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

Internal Chain of Custody

Instructions: Use 1 form for each 20 samples of aliquot

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample			
Laboratory: <u>Chemtech</u>		Location: <u>284 Sheffield Street, Mountainside, NJ 7092</u>	
QA/QC: <u>NA68</u>		Title: <u>Sample Custodian</u>	
Field Sample Seal No.: <u>Q2037</u>		Date Broken: <u>5/14/2025</u>	Military Time Seal Broken: <u>11:00:00</u>
Case No.: <u>4701 White Plains Rd, Bror</u>		Analytical Parameter/Fraction: <u>OCMS Group2</u>	

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q2037-01	SV1		
Q2037-02	IA1		

Date	Time	Relinquished By		Received By		Purpose of Change of Custody
5/14/25	13:15	Signature		Signature		
		Printed Name	Cassanova, Per	Printed Name	Sample Custodian	
		Signature		Signature		
		Printed Name		Printed Name		
		Signature		Signature		
		Printed Name		Printed Name		
		Signature		Signature		
		Printed Name		Printed Name		
		Signature		Signature		
		Printed Name		Printed Name		
		Signature		Signature		
		Printed Name		Printed Name		
		Signature		Signature		
		Printed Name		Printed Name		

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

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

LAB CHRONICLE

OrderID:	Q2037	OrderDate:	5/14/2025 12:49:30 PM
Client:	GFE LLC	Project:	4701 White Plains Rd, Bronx NY
Contact:	Frank Galdun	Location:	Air Lab,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2037-01	SV1	Air	VOCMS Group2	TO-15	05/13/25		05/14/25	05/14/25
Q2037-02	IA1	Air	VOCMS Group2	TO-15	05/13/25		05/14/25	05/14/25



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

Hit Summary Sheet
SW-846

SDG No.: Q2037
Client: GFE LLC

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID: Q2037-01	SV1 SV1	Air	Tetrachloroethene	4.07		0.41	0.81	ug/m3
			Total Voc :	4.07				
			Total Concentration:	4.07				
Client ID: Q2037-02	IA1 IA1	Air	Tetrachloroethene	1.70		0.14	0.20	ug/m3
			Total Voc :	1.70				
			Total Concentration:	1.70				



QC SUMMARY

Surrogate Summary

SDG No.: Q2037

Client: GFE LLC

Analytical Method: SWTO-15

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q2037-01	SV1	1-Bromo-4-Fluorobenzene	10	9.36	94	65	135
Q2037-02	IA1	1-Bromo-4-Fluorobenzene	10	9.90	99	65	135
Q2037-02DUP	IA1DUP	1-Bromo-4-Fluorobenzene	10	10.0	100	65	135
VL0514ABL01	VL0514ABL01	1-Bromo-4-Fluorobenzene	10	9.46	95	65	135
VL0514ABS01	VL0514ABS01	1-Bromo-4-Fluorobenzene	10	10.1	101	65	135

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2037
Client: GFE LLC
Analytical Method: SWTO-15 **Datafile :** VL042538.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL0514ABS01	Vinyl Chloride	10	8.60	ppbv	86			70	130	
	1,1-Dichloroethene	10	10.0	ppbv	100			70	130	
	cis-1,2-Dichloroethene	10	9.60	ppbv	96			70	130	
	1,1,1-Trichloroethane	10	8.90	ppbv	89			70	130	
	Trichloroethene	10	9.30	ppbv	93			70	130	
	Tetrachloroethene	10	9.00	ppbv	90			70	130	

Duplicate Sample Summary

Lab Sample Id :	Q2037-02DUP	Q2037-02
Client Id :	IA1DUP	IA1
DF :	1	1
Datafile :	VL042542.D	VL042541.D
Anal Date & Time :	05/14/2025 14:50	05/14/2025 14:15

Parameter	Result	Result	RPD
1,1,1-Trichloroethane	0	0	0
1,1-Dichloroethene	0	0	0
cis-1,2-Dichloroethene	0	0	0
Tetrachloroethene	0.25	0.25	0
Trichloroethene	0	0	0
Vinyl Chloride	0	0	0

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

IA1DUP

Lab Name: CHEMTECH

Contract: GFEL01

Lab Code: CHEM Case No.: Q2037

SAS No.: Q2037 SDG NO.: Q2037

Lab File ID: VL042542.D

Lab Sample ID: Q2037-02DUP

Date Analyzed: 05/14/2025

Time Analyzed: 14:50

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
IA1DUP	Q2037-02DUP	VL042542.D	05/14/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VL0514ABL01

Lab Name: CHEMTECH

Contract: GFEL01

Lab Code: CHEM Case No.: Q2037

SAS No.: Q2037 SDG NO.: Q2037

Lab File ID: VL042537.D

Lab Sample ID: VL0514ABL01

Date Analyzed: 05/14/2025

Time Analyzed: 11:09

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
VL0514ABS01	VL0514ABS01	VL042538.D	05/14/2025
IA1	Q2037-02	VL042541.D	05/14/2025
SV1	Q2037-01	VL042543.D	05/14/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GFEL01
Lab Code: CHEM Case No.: Q2037 SAS No.: Q2037 SDG NO.: Q2037
Lab File ID: VL042524.D BFB Injection Date: 05/12/2025
Instrument ID: MSVOA_L BFB Injection Time: 07:58
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	22.7
75	30.0 - 66.0% of mass 95	58.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.6 (1) 1
174	50.0 - 120.0% of mass 95	59.7
175	4.0 - 9.0% of mass 174	4.4 (7.4) 1
176	93.0 - 101.0% of mass 174	55.8 (93.4) 1
177	5.0 - 9.0% of mass 176	3.7 (6.7) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICCC010	VSTDICCC010	VL042525.D	05/12/2025	08:57
VSTDICCC001	VSTDICCC001	VL042527.D	05/12/2025	10:07
VSTDICCC0.5	VSTDICCC0.5	VL042528.D	05/12/2025	10:41
VSTDICCC0.1	VSTDICCC0.1	VL042529.D	05/12/2025	11:15
VSTDICCC0.03	VSTDICCC0.03	VL042530.D	05/12/2025	11:49
VSTDICCC002	VSTDICCC002	VL042532.D	05/12/2025	12:58
VSTDICCC015	VSTDICCC015	VL042533.D	05/12/2025	14:28

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GFEL01
Lab Code: CHEM Case No.: Q2037 SAS No.: Q2037 SDG NO.: Q2037
Lab File ID: VL042535.D BFB Injection Date: 05/14/2025
Instrument ID: MSVOA_L BFB Injection Time: 09:38
GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	24
75	30.0 - 66.0% of mass 95	58.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.1
173	Less than 2.0% of mass 174	0.2 (0.3) 1
174	50.0 - 120.0% of mass 95	56.7
175	4.0 - 9.0% of mass 174	4.7 (8.3) 1
176	93.0 - 101.0% of mass 174	54.4 (95.9) 1
177	5.0 - 9.0% of mass 176	3.6 (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:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC010	VSTDCCC010	VL042536.D	05/14/2025	10:23
VL0514ABL01	VL0514ABL01	VL042537.D	05/14/2025	11:09
VL0514ABS01	VL0514ABS01	VL042538.D	05/14/2025	11:53
IA1	Q2037-02	VL042541.D	05/14/2025	14:15
IA1DUP	Q2037-02DUP	VL042542.D	05/14/2025	14:50
SV1	Q2037-01	VL042543.D	05/14/2025	15:22

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GFEL01
Lab Code: CHEM Case No.: Q2037 SAS No.: Q2037 SDG NO.: Q2037
Lab File ID: VL042536.D Date Analyzed: 05/14/2025
Instrument ID: MSVOA_L Time Analyzed: 10:23
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	118016	2.79	346885	3.96	301246	8.89
UPPER LIMIT	165222	3.12	485639	4.29	421744	9.22
LOWER LIMIT	70809.6	2.46	208131	3.63	180748	8.56
EPA SAMPLE NO.						
SV1	130699	2.79	384048	3.97	350637	8.89
IA1	134546	2.79	408032	3.97	347758	8.89
IA1DUP	128941	2.79	393473	3.97	334639	8.89
VL0514ABL01	116915	2.79	336117	3.97	289273	8.89
VL0514ABS01	116911	2.79	342869	3.96	296340	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:	GFE LLC	Date Collected:	05/13/25
Project:	4701 White Plains Rd, Bronx NY	Date Received:	05/14/25
Client Sample ID:	SV1	SDG No.:	Q2037
Lab Sample ID:	Q2037-01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042543.D	4		05/14/25 15:22	VL051425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.060	0.15	U	0.15	0.31	ug/m3
75-35-4	1,1-Dichloroethene	0.56	2.22	U	2.22	7.93	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.36	1.43	U	1.43	7.93	ug/m3
71-55-6	1,1,1-Trichloroethane	0.040	0.22	U	0.22	0.65	ug/m3
79-01-6	Trichloroethene	0.070	0.38	U	0.38	0.64	ug/m3
127-18-4	Tetrachloroethene	0.60	4.07		0.41	0.81	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.40			65 - 135	94%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	131000		2.79			
540-36-3	1,4-Difluorobenzene	384000		3.965			
3114-55-4	Chlorobenzene-d5	351000		8.888			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051425\
 Data File : VL042543.D
 Acq On : 14 May 2025 15:22
 Operator : SY/MD
 Sample : Q2037-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/15/2025
 Supervised By :Mahesh Dadoda 05/15/2025

Quant Time: May 15 01:36:14 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M

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

QLast Update : Tue May 13 02:07:03 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	130699	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	3.965	114	384048	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.888	117	350637	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	285416	9.355	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.600%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	2656	0.125	ppbv	89
3) Chlorodifluoromethane	1.476	51	13964m	0.646	ppbv	
9) Propene	1.486	41	2823	0.602	ppbv #	1
10) Heptane	4.991	43	7598m	0.424	ppbv	
13) Ethanol	1.722	45	3723m	2.951	ppbv	
15) Acetone	1.839	43	116054	5.509	ppbv	98
20) Methylene Chloride	2.065	84	6263	0.861	ppbv	94
26) Hexane	2.829	57	49602	3.295	ppbv #	39
34) 2-Butanone	2.560	43	37395	1.477	ppbv	100
51) 2-Hexanone	7.444	43	55848	2.525	ppbv #	86
52) Tetrachloroethene	8.228	164	1968m	0.151	ppbv	
53) Toluene	6.943	91	41032	1.229	ppbv	99
58) Ethyl Benzene	9.361	91	38568	0.807	ppbv	94
59) m/p-Xylene	9.535	91	87346	2.058	ppbv #	100
60) o-Xylene	9.966	91	51527	1.243	ppbv	97
62) Isopropylbenzene	10.545	105	23812	0.381	ppbv	97
64) n-propylbenzene	10.992	120	14270	0.900	ppbv	90
65) tert-Butylbenzene	11.539	119	11461	0.200	ppbv #	37
67) sec-Butylbenzene	11.772	105	39676m	0.483	ppbv	
69) p-Isopropyltoluene	11.930	119	22274	0.330	ppbv	98
72) 4-Ethyltoluene	11.131	105	35977	0.700	ppbv #	56
73) 1,3,5-Trimethylbenzene	11.209	105	41636	0.930	ppbv	99
74) 1,2,4-Trimethylbenzene	11.542	105	89411	1.623	ppbv #	60
76) 1,4-Dichlorobenzene	11.675	146	4994	0.152	ppbv #	1

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

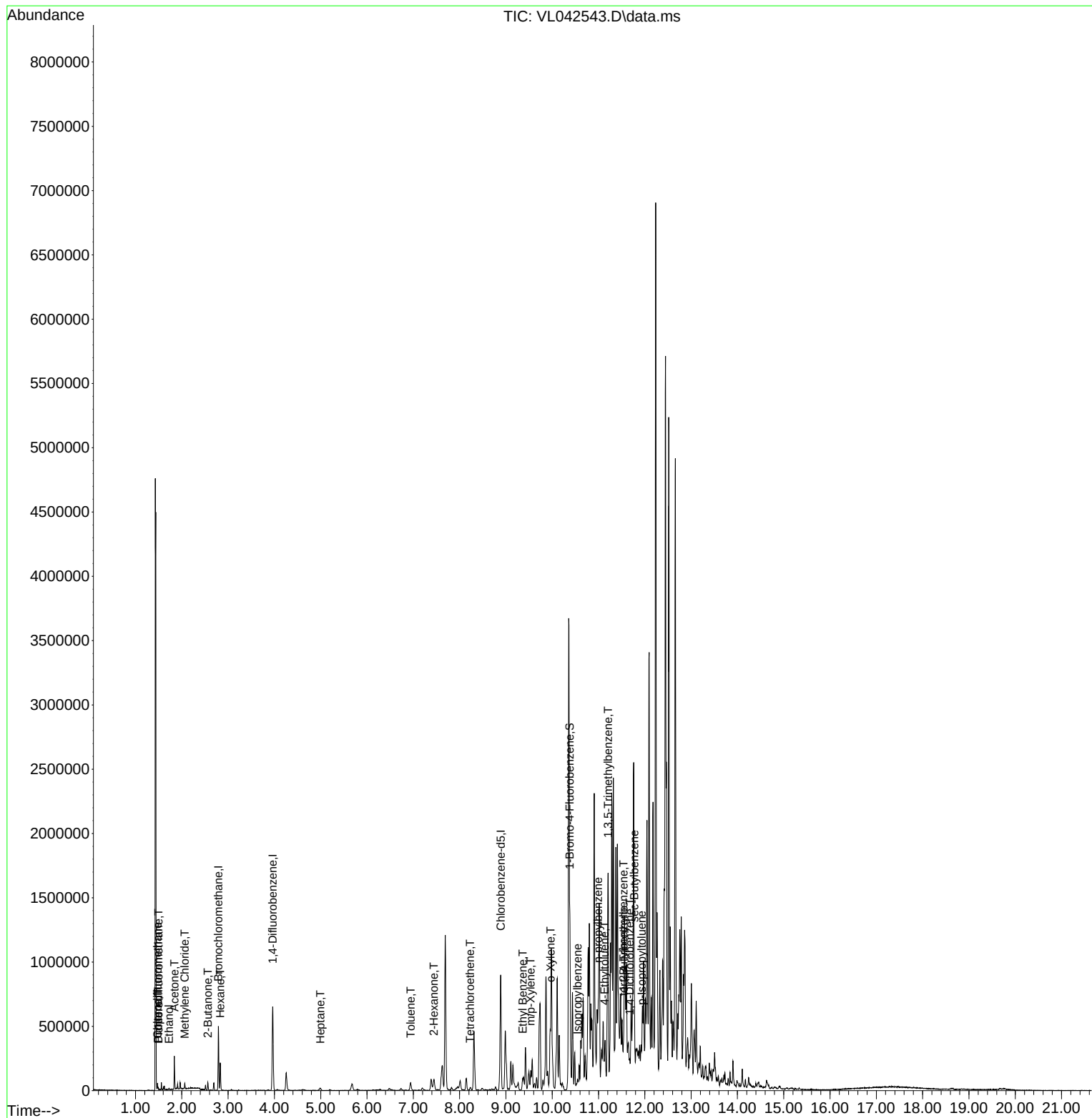
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051425\
Data File : VL042543.D
Acq On : 14 May 2025 15:22
Operator : SY/MD
Sample : Q2037-01 4X
Misc : 400mL/MSVOA_L
ALS Vial : 7 Sample Multiplier: 1

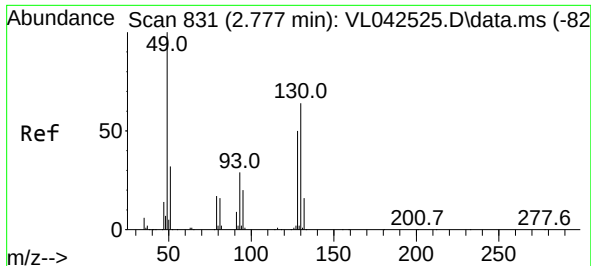
Instrument :
MSVOA_L
ClientSampleId :
SV1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025

Quant Time: May 15 01:36:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue May 13 02:07:03 2025
Response via : Initial Calibration





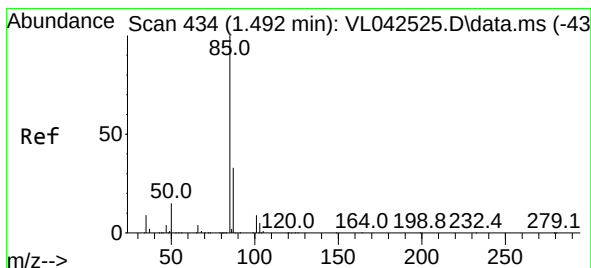
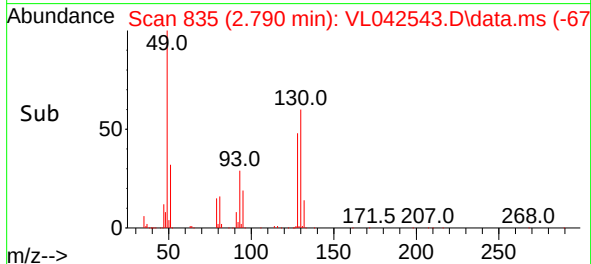
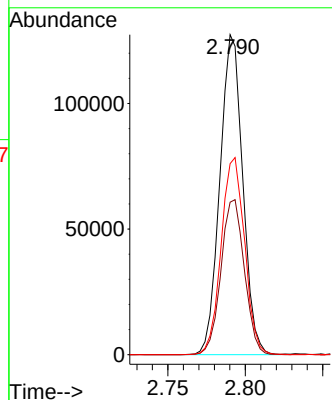
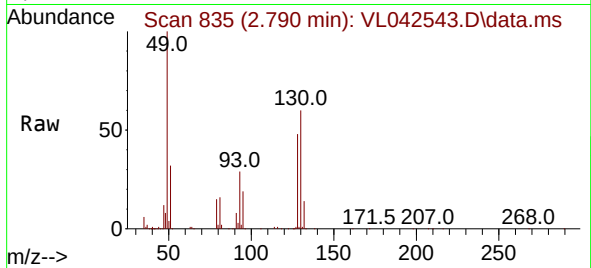
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.013 min
Lab File: VL042543.D
Acq: 14 May 2025 15:22

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 49 Resp: 130699
Ion Ratio Lower Upper
49 100
128 49.7 24.9 74.6
130 63.3 32.5 97.5

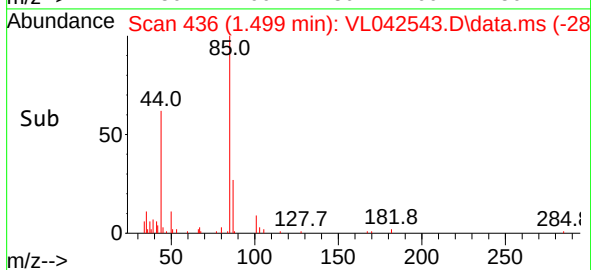
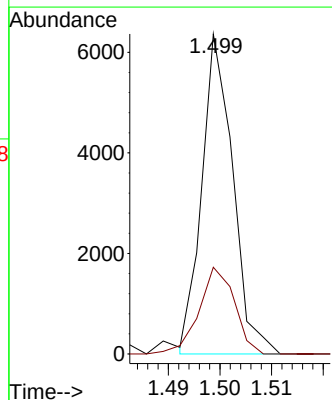
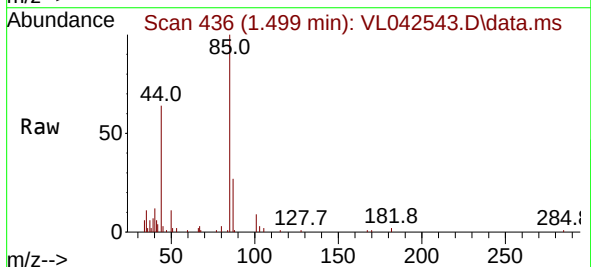
Manual Integrations
APPROVED

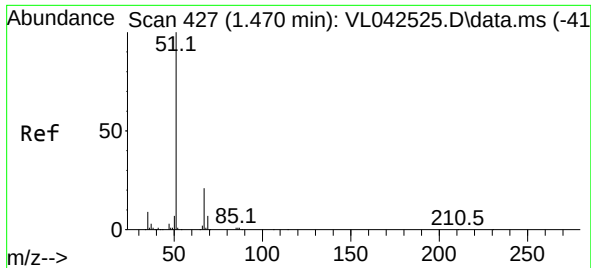
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#2
Dichlorodifluoromethane
Concen: 0.125 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.006 min
Lab File: VL042543.D
Acq: 14 May 2025 15:22

Tgt Ion: 85 Resp: 2656
Ion Ratio Lower Upper
85 100
87 27.1 26.8 40.2





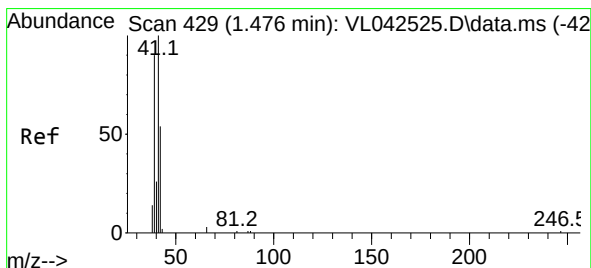
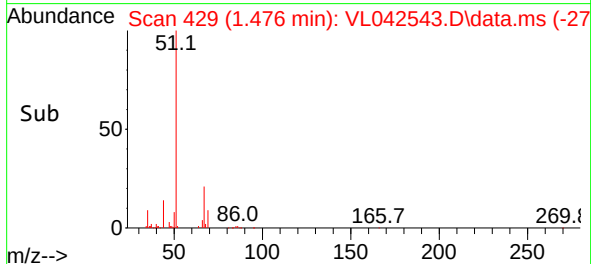
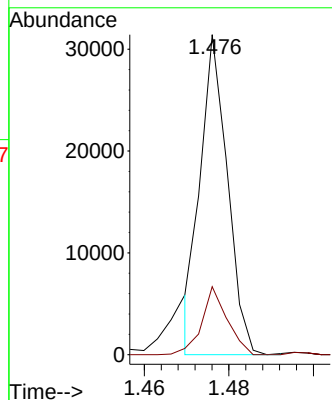
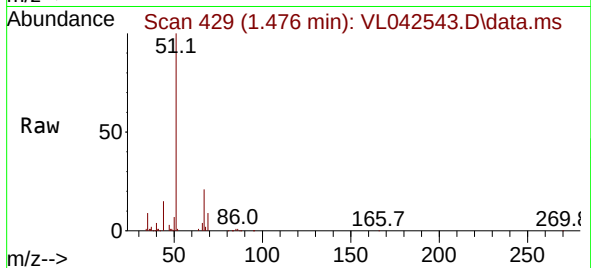
#3
Chlorodifluoromethane
Concen: 0.646 ppbv m
RT: 1.476 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL042543.D
Acq: 14 May 2025 15:22

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 51 Resp: 13964
Ion Ratio Lower Upper
51 100
67 20.6 17.4 26.0

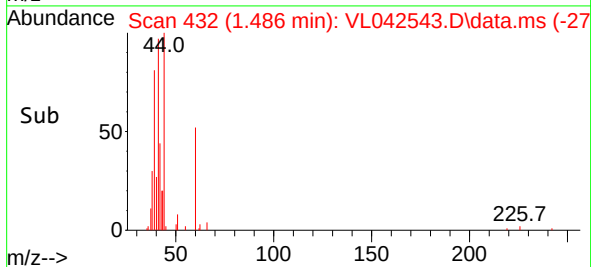
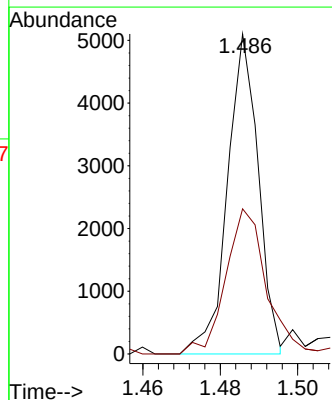
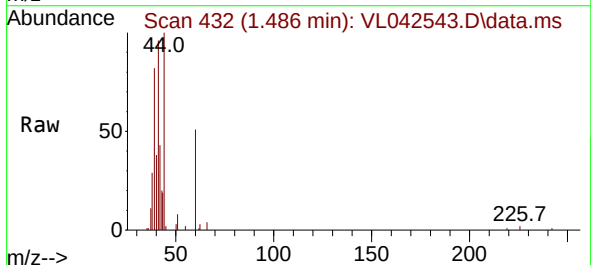
Manual Integrations
APPROVED

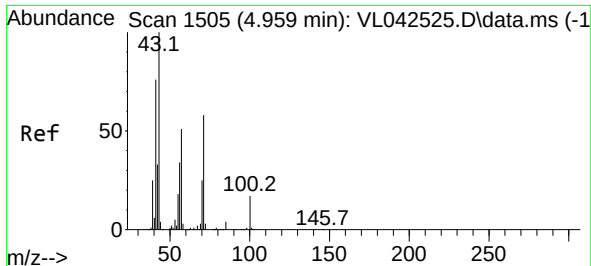
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#9
Propene
Concen: 0.602 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.009 min
Lab File: VL042543.D
Acq: 14 May 2025 15:22

Tgt Ion: 41 Resp: 2823
Ion Ratio Lower Upper
41 100
42 61.3 4.1 6.1#





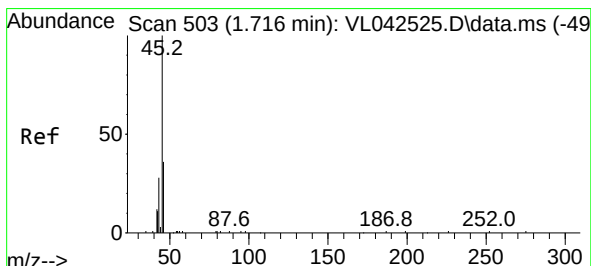
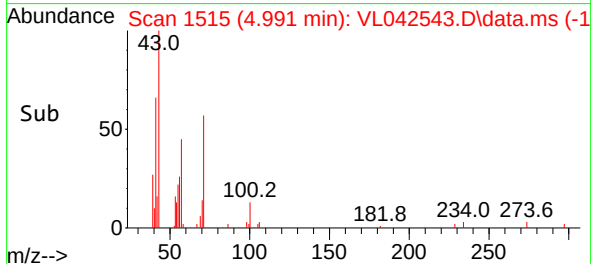
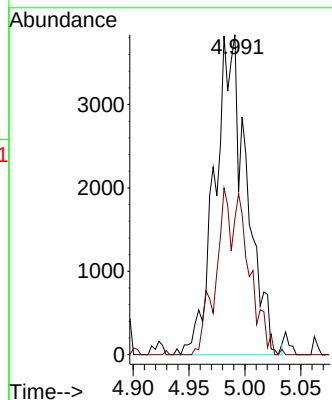
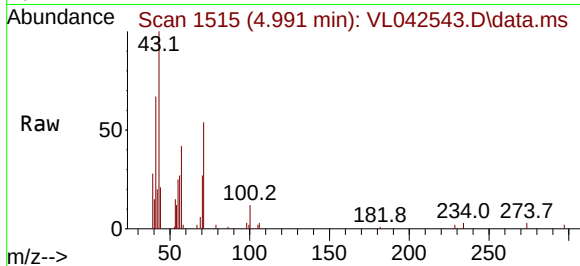
#10
Heptane
Concen: 0.424 ppbv m
RT: 4.991 min Scan# 11
Delta R.T. 0.032 min
Lab File: VL042543.D
Acq: 14 May 2025 15:22

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 43 Resp: 7598
Ion Ratio Lower Upper
43 100
57 51.2 42.1 63.1

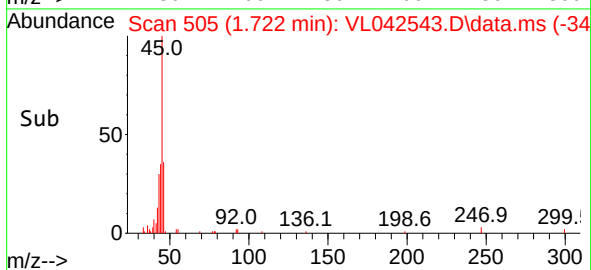
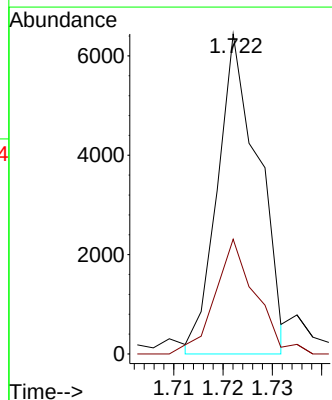
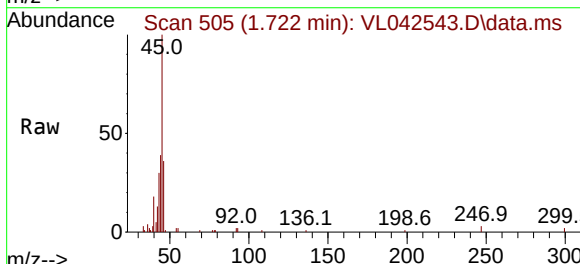
Manual Integrations
APPROVED

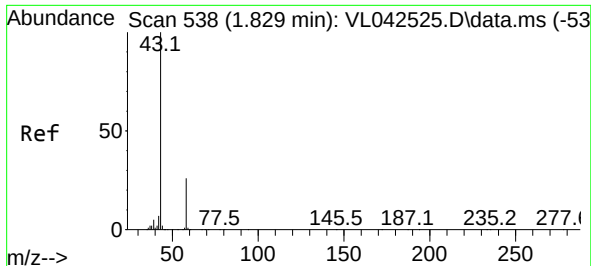
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#13
Ethanol
Concen: 2.951 ppbv m
RT: 1.722 min Scan# 505
Delta R.T. 0.006 min
Lab File: VL042543.D
Acq: 14 May 2025 15:22

Tgt Ion: 45 Resp: 3723
Ion Ratio Lower Upper
45 100
46 0.0 14.8 59.4#





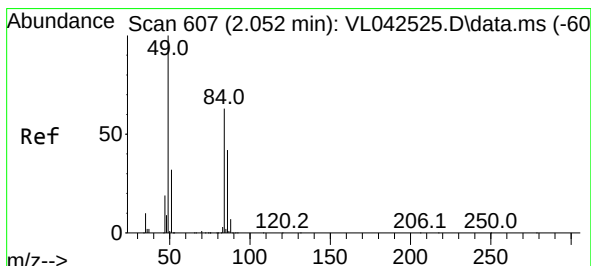
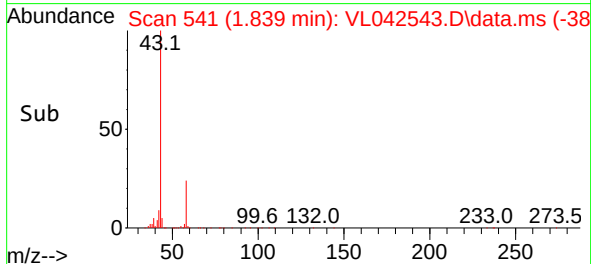
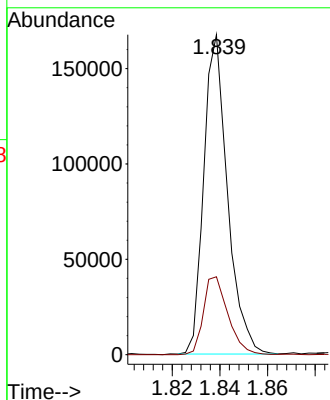
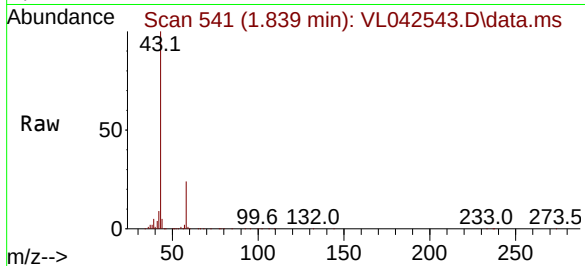
#15
Acetone
Concen: 5.509 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.009 min
Lab File: VL042543.D
Acq: 14 May 2025 15:22

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 43 Resp: 116054
Ion Ratio Lower Upper
43 100
58 25.5 21.3 31.9

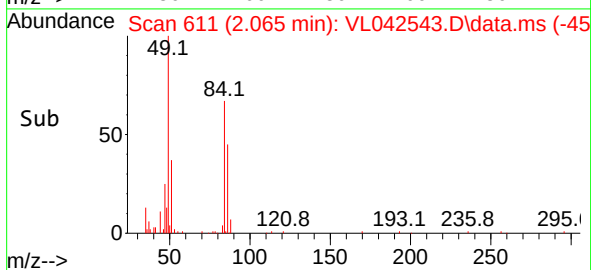
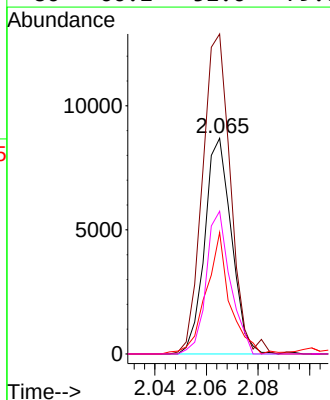
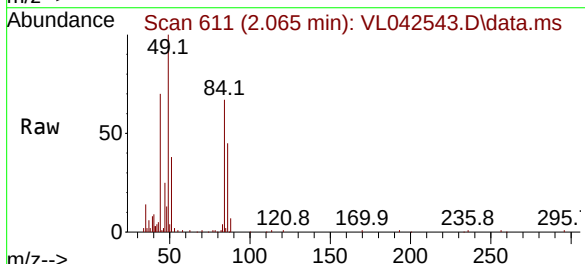
Manual Integrations
APPROVED

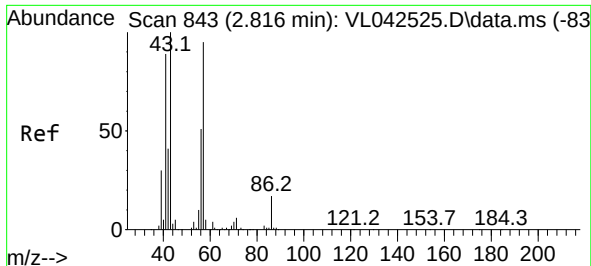
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#20
Methylene Chloride
Concen: 0.861 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.013 min
Lab File: VL042543.D
Acq: 14 May 2025 15:22

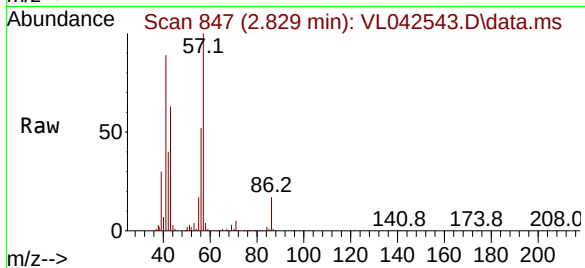
Tgt Ion: 84 Resp: 6263
Ion Ratio Lower Upper
84 100
49 148.4 128.2 192.4
51 55.5 41.7 62.5
86 66.2 52.6 79.0





#26
Hexane
Concen: 3.295 ppbv
RT: 2.829 min Scan# 843
Delta R.T. 0.013 min
Lab File: VL042543.D
Acq: 14 May 2025 15:22

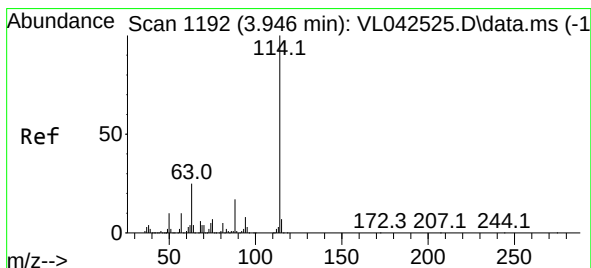
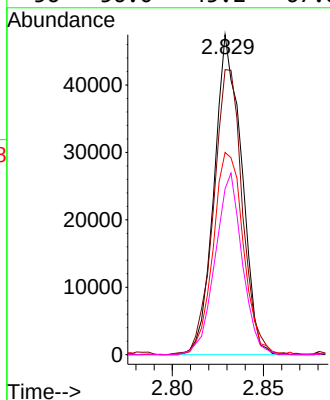
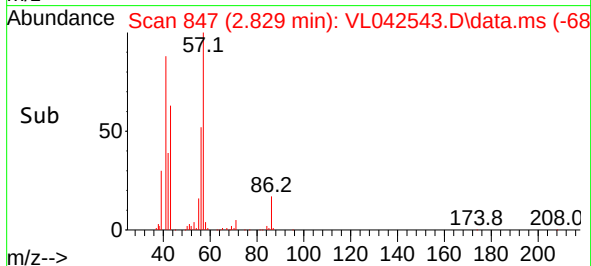
Instrument :
MSVOA_L
ClientSampleId :
SV1



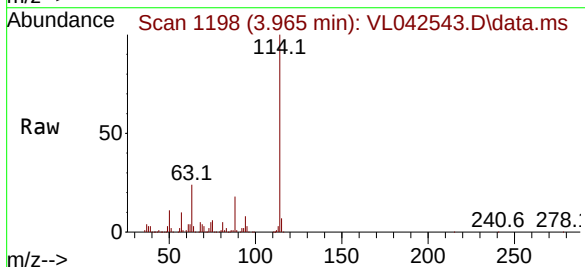
Tgt Ion: 57 Resp: 49602
Ion Ratio Lower Upper
57 100
41 93.9 76.1 114.1
43 70.1 188.9 283.3
56 56.0 45.2 67.8

Manual Integrations
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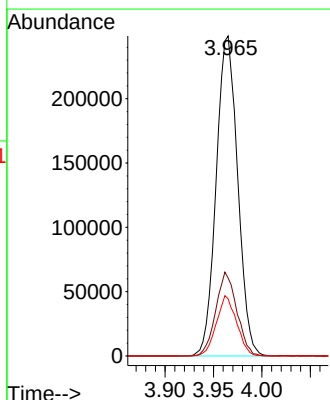
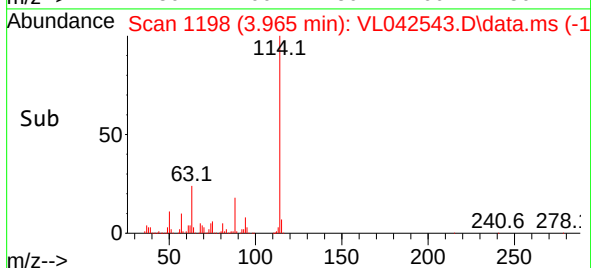
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025

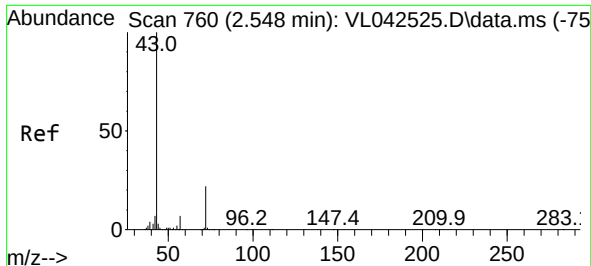


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1198
Delta R.T. 0.019 min
Lab File: VL042543.D
Acq: 14 May 2025 15:22



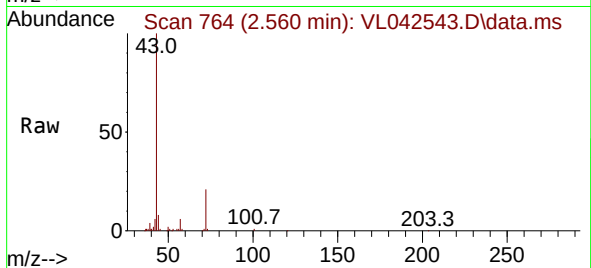
Tgt Ion:114 Resp: 384048
Ion Ratio Lower Upper
114 100
63 25.7 20.4 30.6
88 17.7 14.5 21.7





#34
2-Butanone
Concen: 1.477 ppbv
RT: 2.560 min Scan# 70
Delta R.T. 0.013 min
Lab File: VL042543.D
Acq: 14 May 2025 15:22

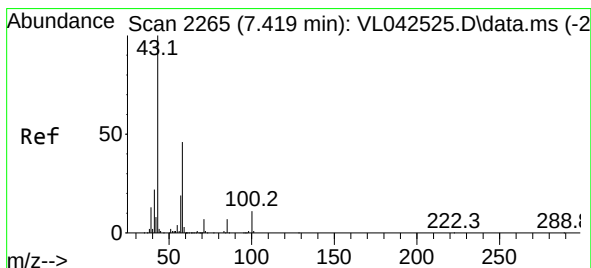
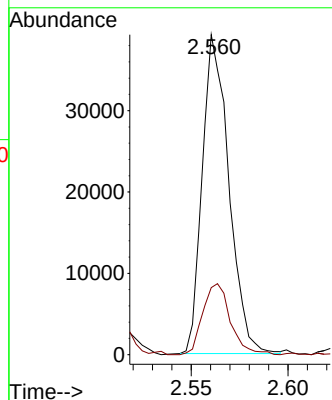
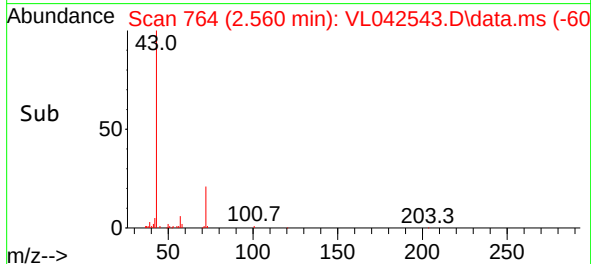
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 43 Resp: 37398
Ion Ratio Lower Upper
43 100
72 23.6 18.7 28.1

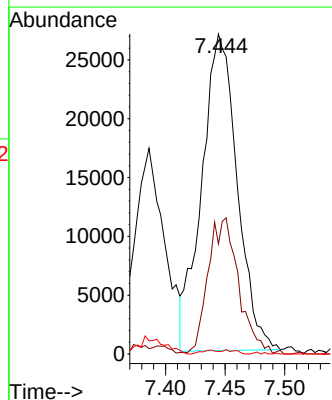
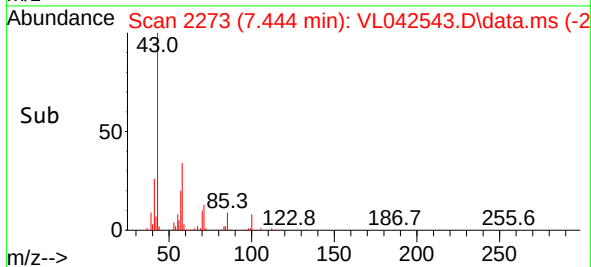
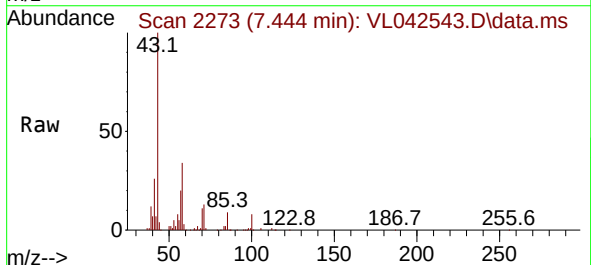
Manual Integrations
APPROVED

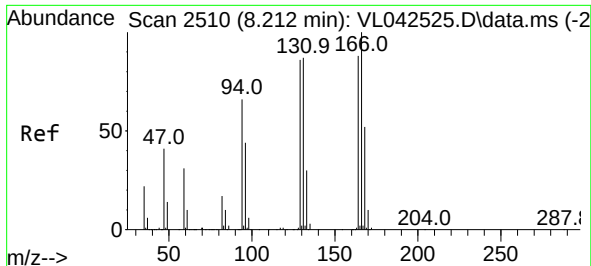
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#51
2-Hexanone
Concen: 2.525 ppbv
RT: 7.444 min Scan# 2273
Delta R.T. 0.026 min
Lab File: VL042543.D
Acq: 14 May 2025 15:22

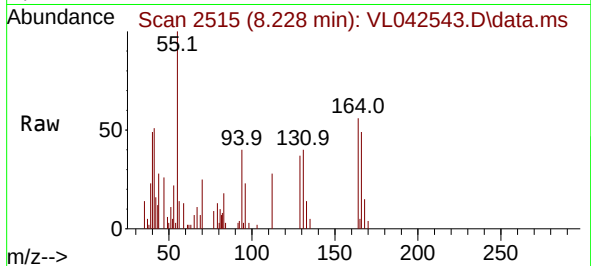
Tgt Ion: 43 Resp: 55848
Ion Ratio Lower Upper
43 100
58 37.2 37.5 56.3#
98 1.2 0.9 1.3





#52
Tetrachloroethene
Concen: 0.151 ppbv m
RT: 8.228 min Scan# 2118
Delta R.T. 0.016 min
Lab File: VL042543.D
Acq: 14 May 2025 15:22

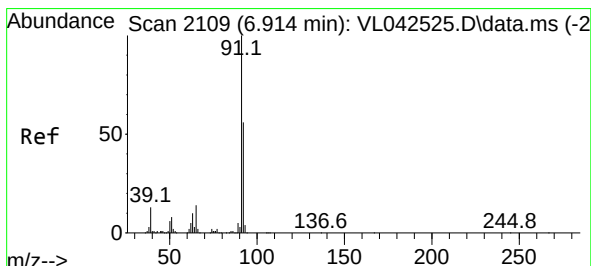
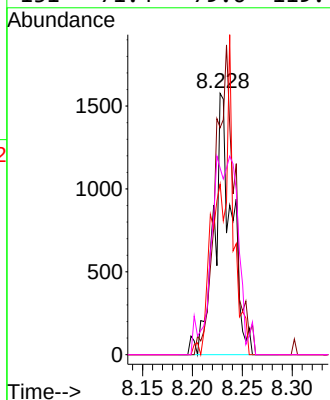
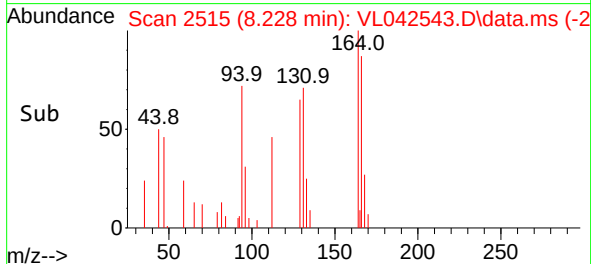
Instrument : MSVOA_L
ClientSampleId : SV1



Tgt Ion:164 Resp: 1968
Ion Ratio Lower Upper
164 100
166 86.9 91.3 136.9
129 65.3 78.9 118.3
131 71.4 79.6 119.4

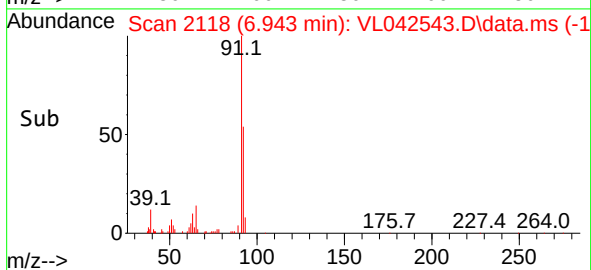
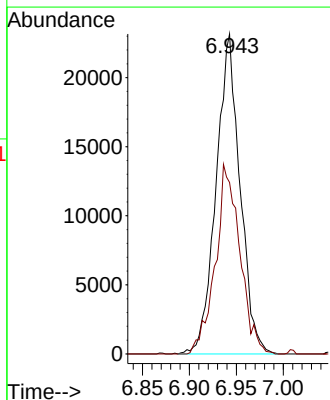
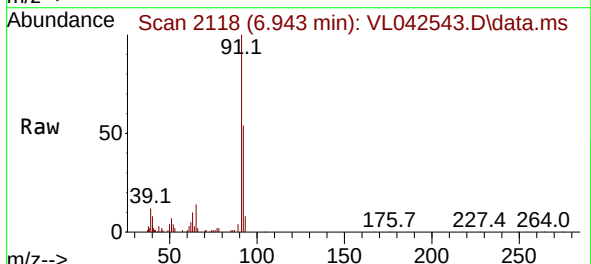
Manual Integrations
APPROVED

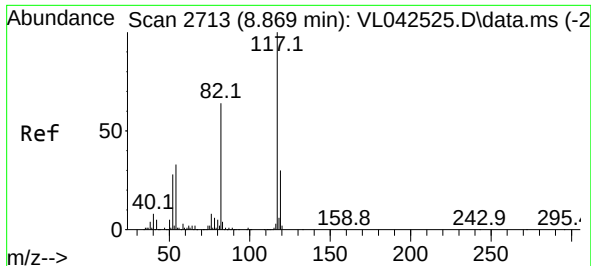
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#53
Toluene
Concen: 1.229 ppbv
RT: 6.943 min Scan# 2118
Delta R.T. 0.029 min
Lab File: VL042543.D
Acq: 14 May 2025 15:22

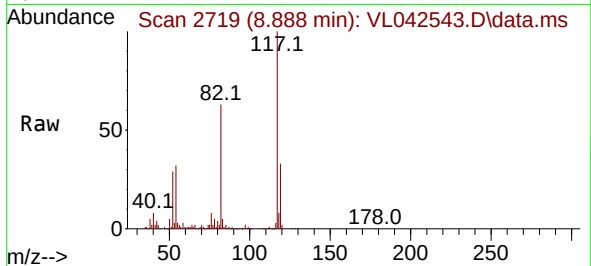
Tgt Ion: 91 Resp: 41032
Ion Ratio Lower Upper
91 100
92 60.5 47.8 71.6





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2719
Delta R.T. 0.019 min
Lab File: VL042543.D
Acq: 14 May 2025 15:22

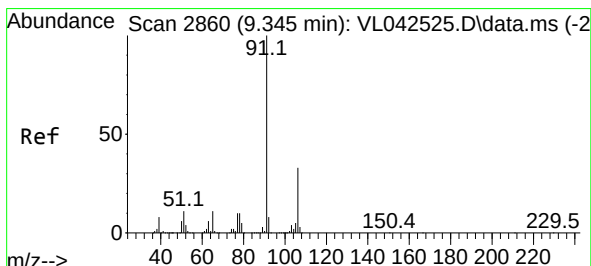
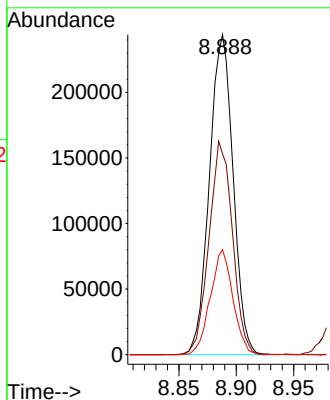
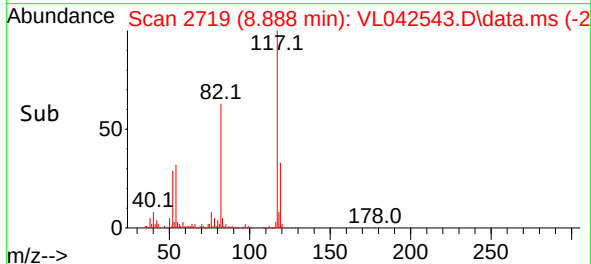
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 117 Resp: 35063
Ion Ratio Lower Upper
117 100
82 66.1 55.0 82.4
119 31.4 25.8 38.6

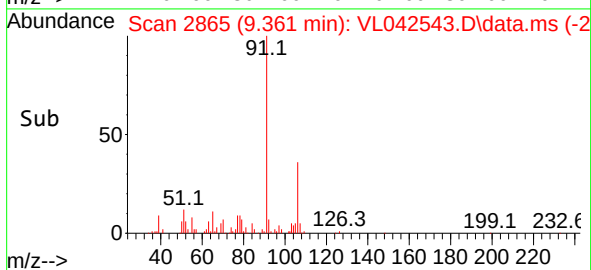
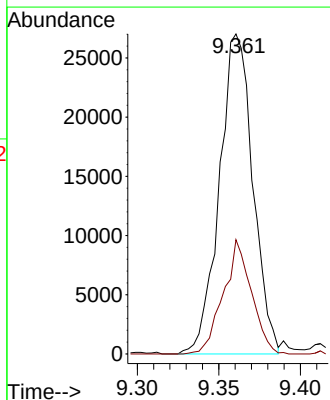
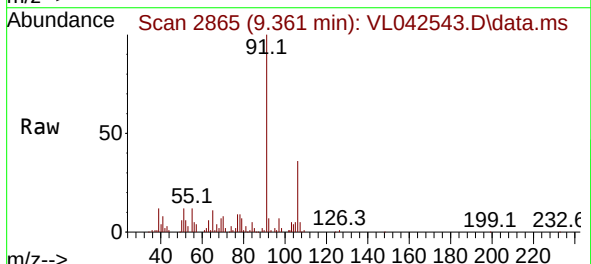
Manual Integrations
APPROVED

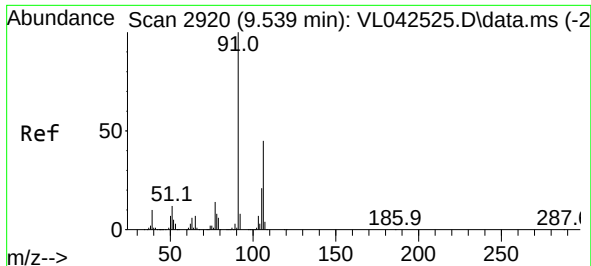
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#58
Ethyl Benzene
Concen: 0.807 ppbv
RT: 9.361 min Scan# 2865
Delta R.T. 0.016 min
Lab File: VL042543.D
Acq: 14 May 2025 15:22

Tgt Ion: 91 Resp: 38568
Ion Ratio Lower Upper
91 100
106 35.7 26.0 39.0





#59

m/p-Xylene

Concen: 2.058 ppbv

RT: 9.535 min Scan# 2919

Delta R.T. -0.003 min

Lab File: VL042543.D

Acq: 14 May 2025 15:22

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion: 91 Resp: 87340

Ion Ratio Lower Upper

91 100

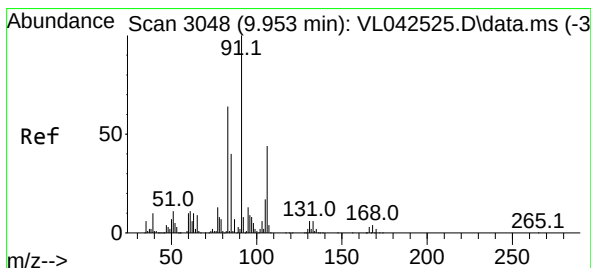
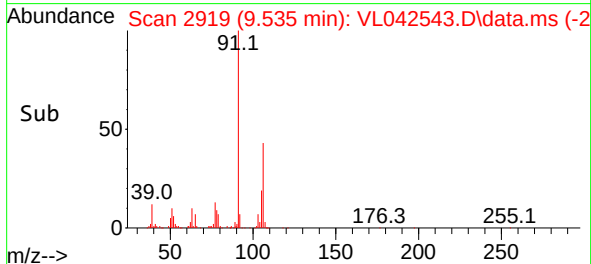
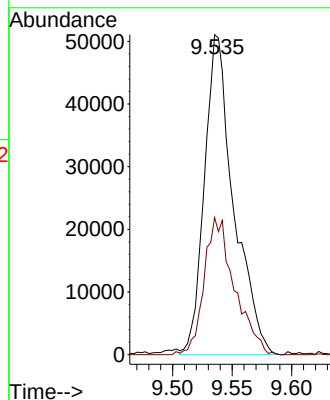
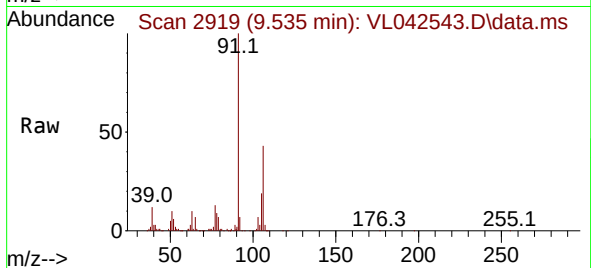
106 44.5 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/15/2025

Supervised By :Mahesh Dadoda 05/15/2025



#60

o-Xylene

Concen: 1.243 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. 0.013 min

Lab File: VL042543.D

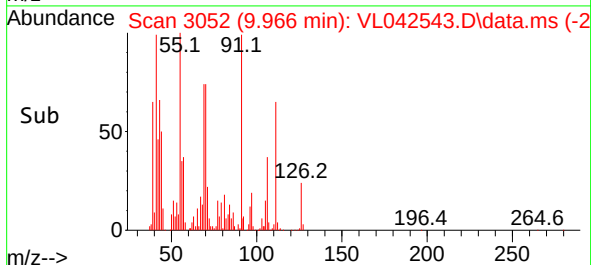
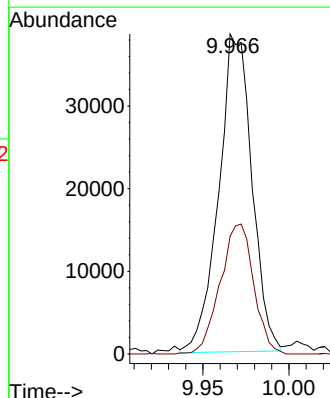
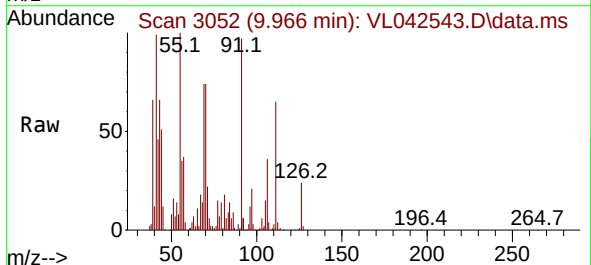
Acq: 14 May 2025 15:22

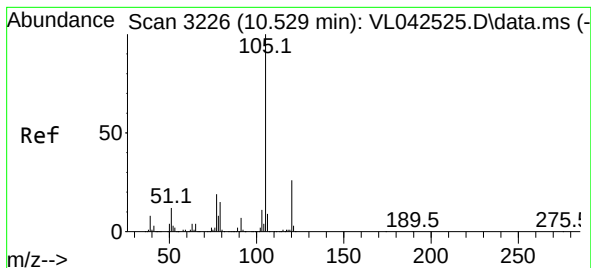
Tgt Ion: 91 Resp: 51527

Ion Ratio Lower Upper

91 100

106 41.3 21.6 64.6





#62

Isopropylbenzene

Concen: 0.381 ppbv

RT: 10.545 min Scan# 31

Delta R.T. 0.016 min

Lab File: VL042543.D

Acq: 14 May 2025 15:22

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion:105 Resp: 2381

Ion Ratio Lower Upper

105 100

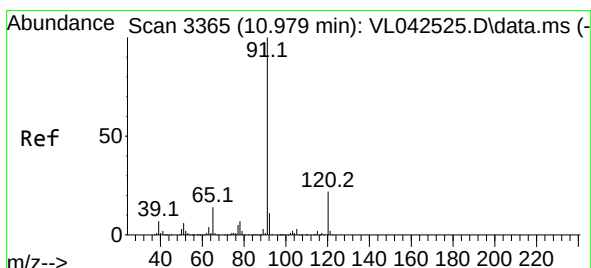
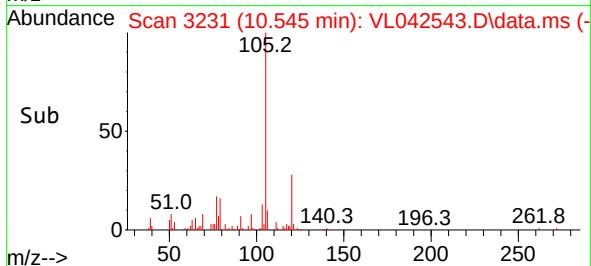
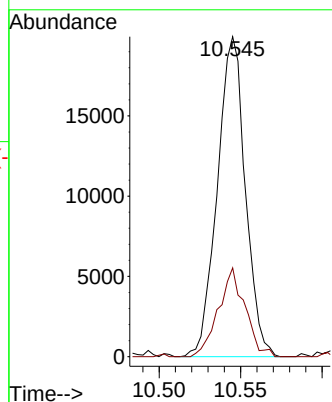
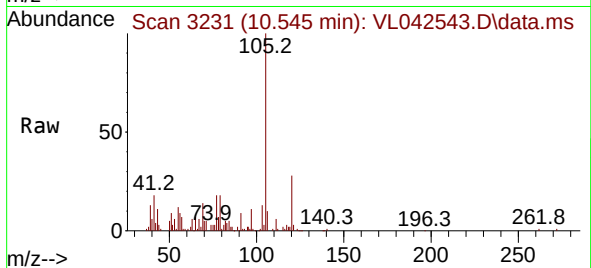
120 26.4 20.1 30.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/15/2025

Supervised By :Mahesh Dadoda 05/15/2025



#64

n-propylbenzene

Concen: 0.900 ppbv

RT: 10.992 min Scan# 3369

Delta R.T. 0.013 min

Lab File: VL042543.D

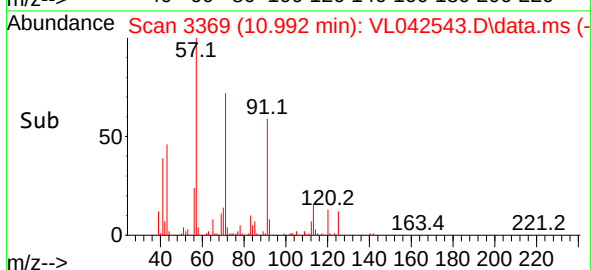
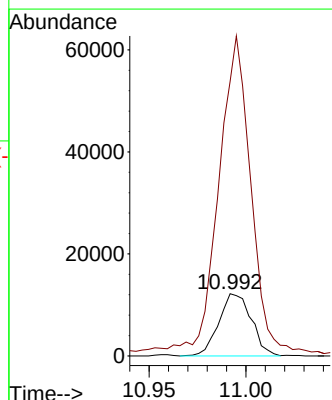
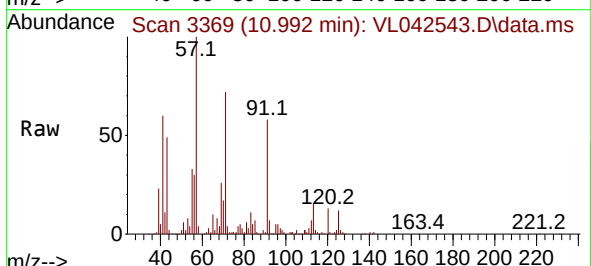
Acq: 14 May 2025 15:22

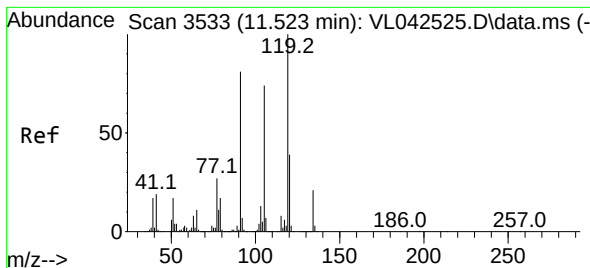
Tgt Ion:120 Resp: 14270

Ion Ratio Lower Upper

120 100

91 499.0 377.7 566.5





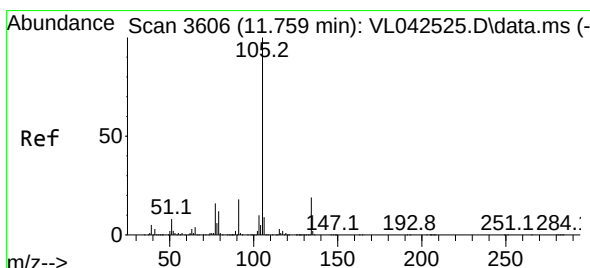
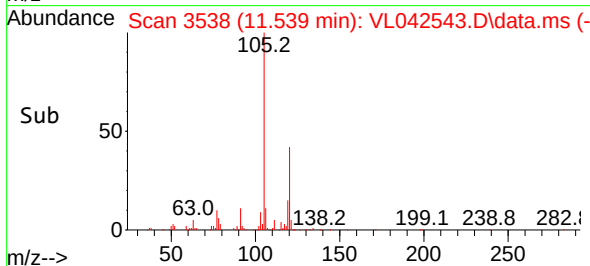
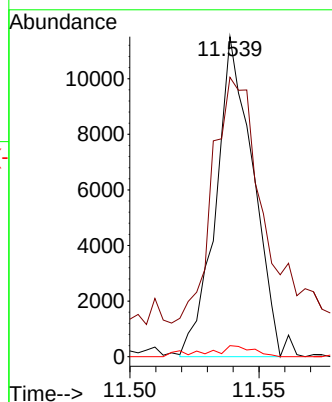
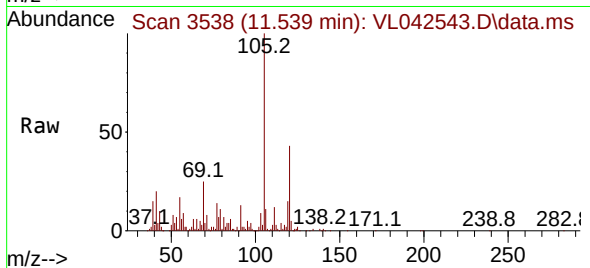
#65
tert-Butylbenzene
Concen: 0.200 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.016 min
Lab File: VL042543.D
Acq: 14 May 2025 15:22

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion:119 Resp: 1146
Ion Ratio Lower Upper
119 100
91 145.8 66.6 99.8
134 4.3 16.3 24.5

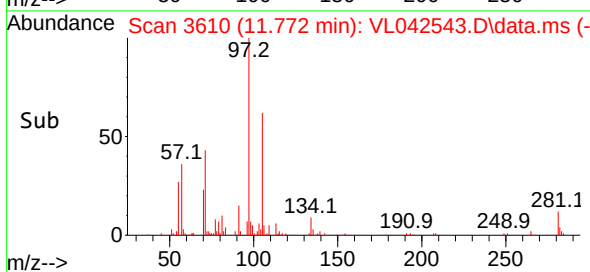
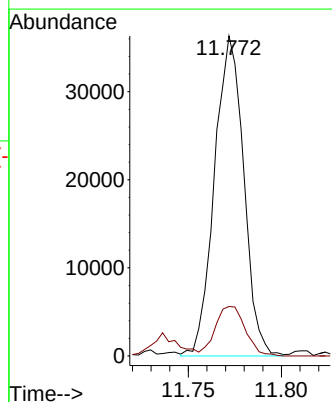
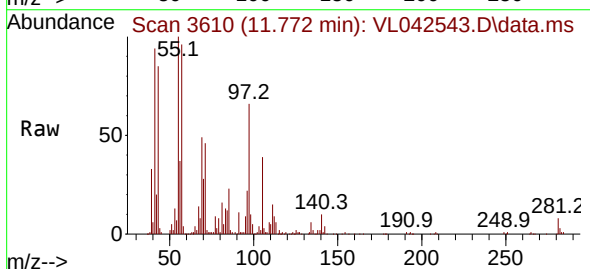
Manual Integrations
APPROVED

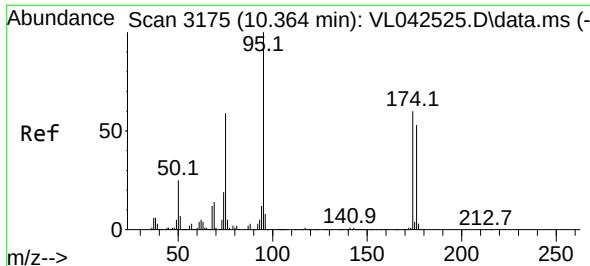
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#67
sec-Butylbenzene
Concen: 0.483 ppbv m
RT: 11.772 min Scan# 3610
Delta R.T. 0.013 min
Lab File: VL042543.D
Acq: 14 May 2025 15:22

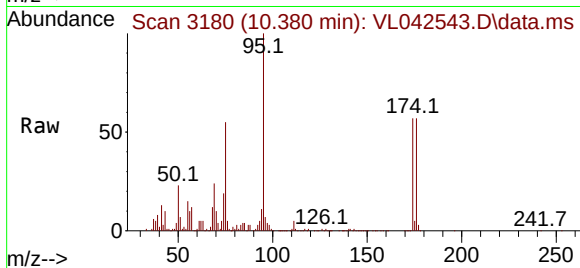
Tgt Ion:105 Resp: 39676
Ion Ratio Lower Upper
105 100
134 1.7 14.9 22.3





#68
1-Bromo-4-Fluorobenzene
Concen: 9.355 ppbv
RT: 10.380 min Scan# 3175
Delta R.T. 0.016 min
Lab File: VL042543.D
Acq: 14 May 2025 15:22

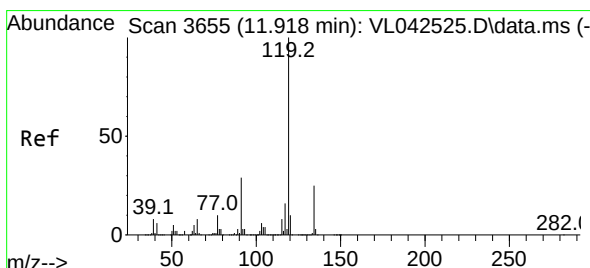
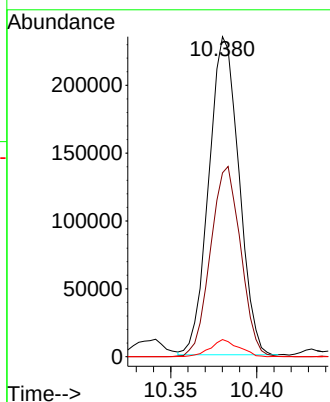
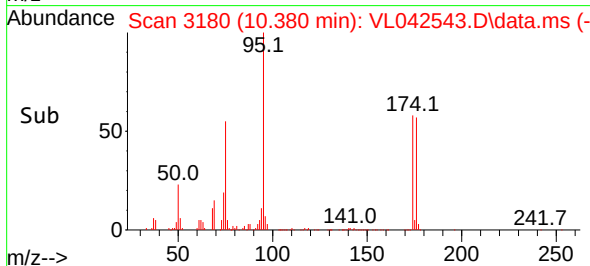
Instrument :
MSVOA_L
ClientSampleId :
SV1



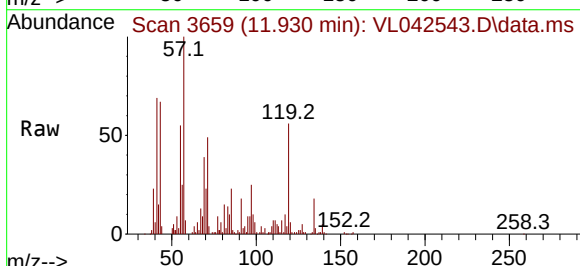
Tgt Ion: 95 Resp: 285410
Ion Ratio Lower Upper
95 100
174 59.9 48.0 72.0
175 5.1 3.5 5.3

Manual Integrations
APPROVED

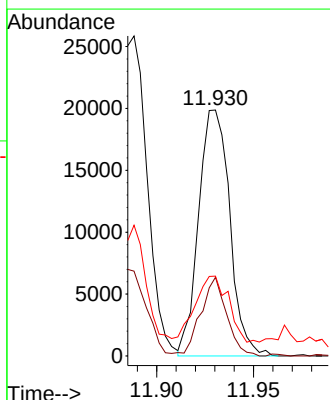
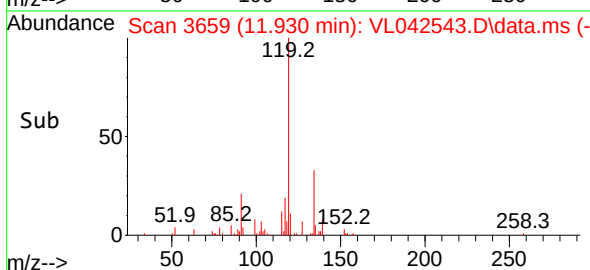
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025

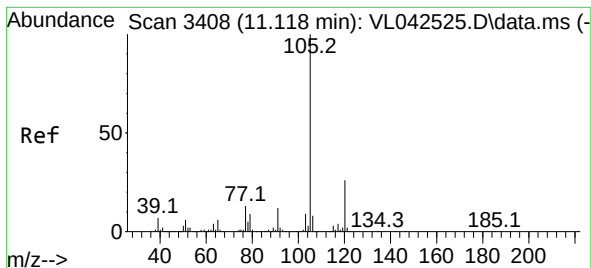


#69
p-Isopropyltoluene
Concen: 0.330 ppbv
RT: 11.930 min Scan# 3659
Delta R.T. 0.013 min
Lab File: VL042543.D
Acq: 14 May 2025 15:22



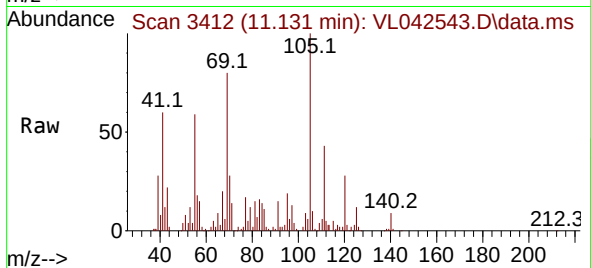
Tgt Ion:119 Resp: 22274
Ion Ratio Lower Upper
119 100
134 26.9 19.8 29.6
91 29.0 23.6 35.4





#72
4-Ethyltoluene
Concen: 0.700 ppbv
RT: 11.131 min Scan# 3408
Delta R.T. 0.013 min
Lab File: VL042543.D
Acq: 14 May 2025 15:22

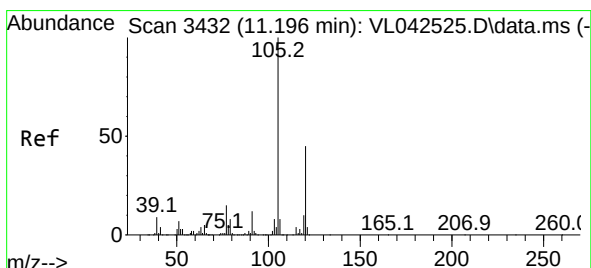
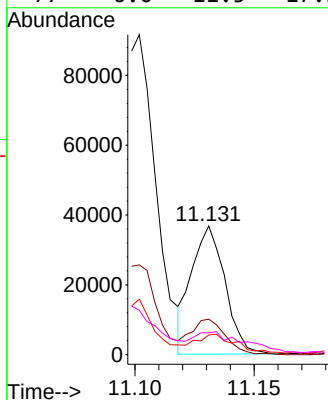
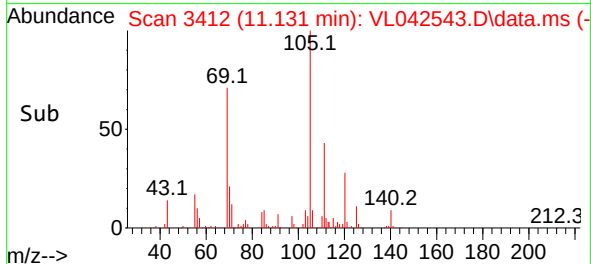
Instrument :
MSVOA_L
ClientSampleId :
SV1



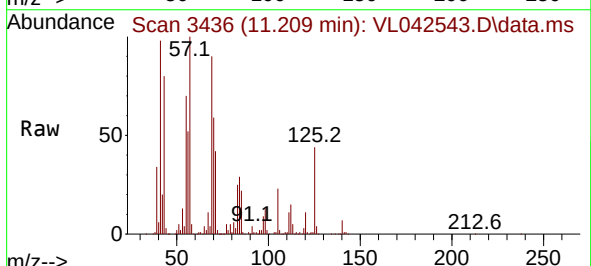
Tgt Ion:105 Resp: 3597
Ion Ratio Lower Upper
105 100
120 0.0 22.9 34.3
91 0.0 10.9 16.3
77 0.0 11.5 17.3#

Manual Integrations
APPROVED

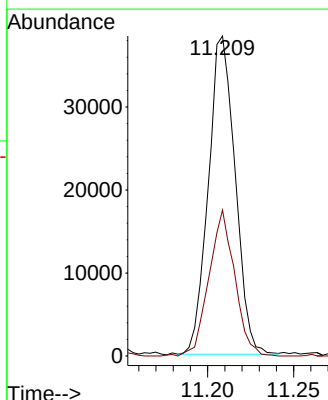
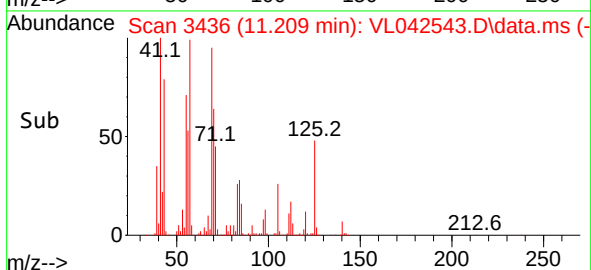
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025

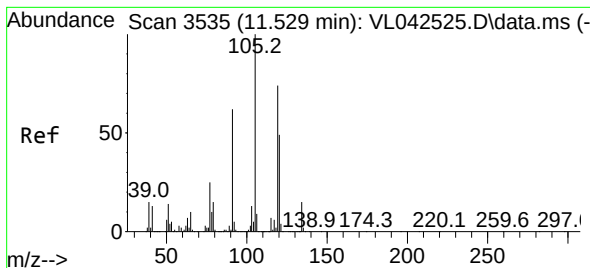


#73
1,3,5-Trimethylbenzene
Concen: 0.930 ppbv
RT: 11.209 min Scan# 3436
Delta R.T. 0.013 min
Lab File: VL042543.D
Acq: 14 May 2025 15:22



Tgt Ion:105 Resp: 41636
Ion Ratio Lower Upper
105 100
120 45.8 36.0 54.0





#74

1,2,4-Trimethylbenzene

Concen: 1.623 ppbv

RT: 11.542 min Scan# 3539

Delta R.T. 0.013 min

Lab File: VL042543.D

Acq: 14 May 2025 15:22

Instrument :

MSVOA_L

ClientSampleId :

SV1

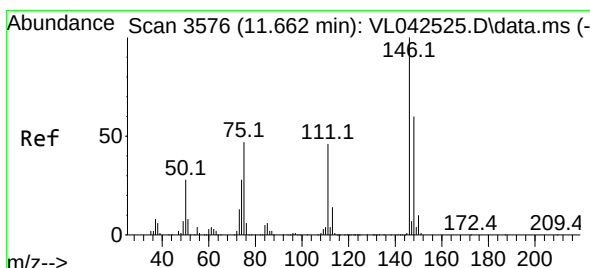
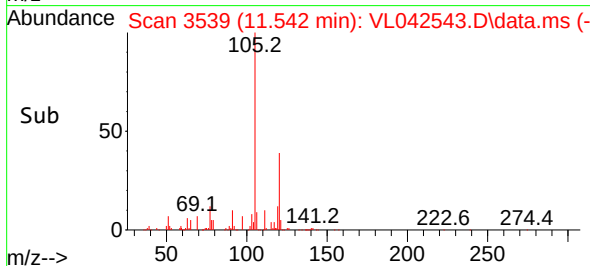
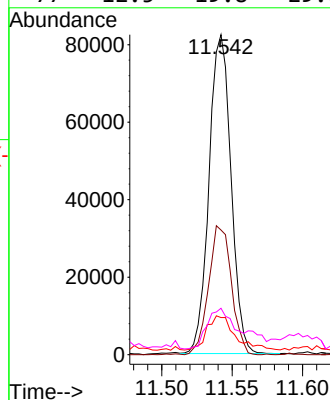
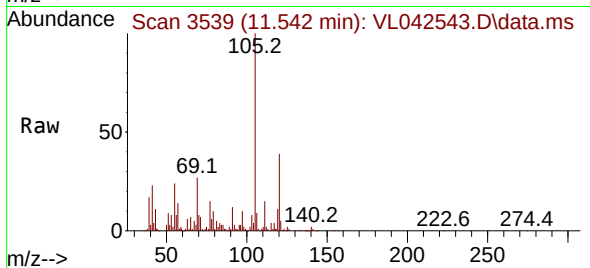
Tgt Ion:	105	Resp:	8941
Ion Ratio	Lower	Upper	
105	100		
120	38.9	39.0	58.6
91	10.1	49.4	74.2
77	12.5	19.8	29.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/15/2025

Supervised By :Mahesh Dadoda 05/15/2025



#76

1,4-Dichlorobenzene

Concen: 0.152 ppbv

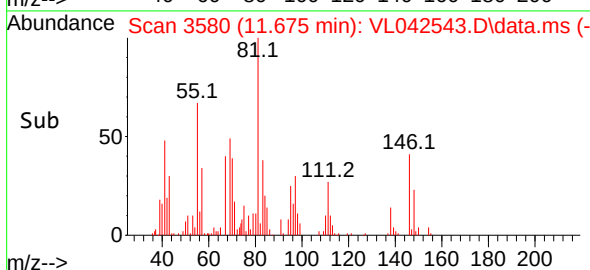
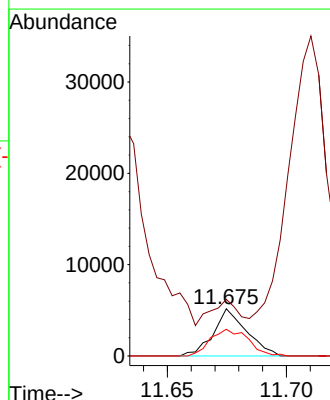
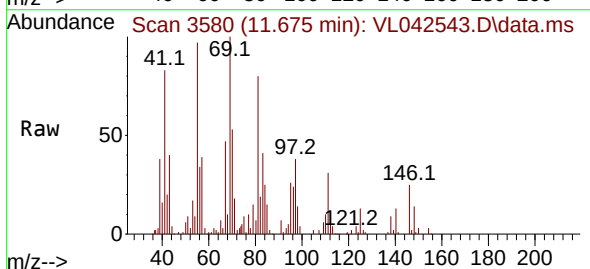
RT: 11.675 min Scan# 3580

Delta R.T. 0.013 min

Lab File: VL042543.D

Acq: 14 May 2025 15:22

Tgt Ion:	146	Resp:	4994
Ion Ratio	Lower	Upper	
146	100		
111	864.8	23.4	70.3
148	65.0	31.6	94.7



Report of Analysis

Client:	GFE LLC	Date Collected:	05/13/25
Project:	4701 White Plains Rd, Bronx NY	Date Received:	05/14/25
Client Sample ID:	IA1	SDG No.:	Q2037
Lab Sample ID:	Q2037-02	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042541.D	1		05/14/25 14:15	VL051425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
127-18-4	Tetrachloroethene	0.25	1.70		0.14	0.20	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.90			65 - 135	99%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	135000		2.79			
540-36-3	1,4-Difluorobenzene	408000		3.965			
3114-55-4	Chlorobenzene-d5	348000		8.885			

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\VL051425\
 Data File : VL042541.D
 Acq On : 14 May 2025 14:15
 Operator : SY/MD
 Sample : Q2037-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 05/15/2025
 Supervised By : Mahesh Dadoda 05/15/2025

Quant Time: May 15 01:34:48 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M

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

QLast Update : Tue May 13 02:07:03 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	134546	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	3.965	114	408032	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.885	117	347758	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	299463	9.897	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.000%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	8985	0.411	ppbv	99
3) Chlorodifluoromethane	1.479	51	44558m	2.001	ppbv	
4) Chloromethane	1.534	50	6285	0.705	ppbv	98
9) Propene	1.489	41	25265	5.232	ppbv #	85
10) Heptane	4.991	43	5875m	0.318	ppbv	
11) Trichlorofluoromethane	1.881	101	4432	0.211	ppbv	83
13) Ethanol	1.722	45	398191	306.595	ppbv	100
15) Acetone	1.839	43	347538m	16.025	ppbv	
17) tert-Butyl alcohol	2.046	59	10606	0.534	ppbv #	72
19) Isopropyl Alcohol	1.887	45	231241	19.799	ppbv #	1
20) Methylene Chloride	2.065	84	6721	0.898	ppbv	91
26) Hexane	2.832	57	56507	3.646	ppbv #	53
29) Chloroform	2.852	83	52359	1.629	ppbv	99
30) Cyclohexane	3.865	84	17180	1.350	ppbv	92
34) 2-Butanone	2.564	43	22109	0.822	ppbv	97
35) Carbon Tetrachloride	3.771	117	4285m	0.117	ppbv	
36) Benzene	3.664	78	17040	0.471	ppbv	98
37) 1,2-Dichloroethane	3.221	62	6929	0.269	ppbv	99
41) Tetrahydrofuran	3.068	42	5133m	0.441	ppbv	
44) 2,2,4-Trimethylpentane	4.654	57	12329m	0.215	ppbv	
52) Tetrachloroethene	8.231	164	3466	0.251	ppbv #	85
53) Toluene	6.943	91	95844	2.701	ppbv	99
58) Ethyl Benzene	9.364	91	14851	0.313	ppbv	98
59) m/p-Xylene	9.539	91	38335	0.911	ppbv #	100
60) o-Xylene	9.969	91	17042	0.415	ppbv	91
61) Styrene	9.878	104	17521	1.151	ppbv	95
64) n-propylbenzene	10.995	120	2044m	0.130	ppbv	
69) p-Isopropyltoluene	11.930	119	8127	0.121	ppbv	95
72) 4-Ethyltoluene	11.131	105	9443	0.185	ppbv #	62
73) 1,3,5-Trimethylbenzene	11.209	105	10634	0.239	ppbv	98
74) 1,2,4-Trimethylbenzene	11.542	105	32735	0.599	ppbv #	64
76) 1,4-Dichlorobenzene	11.678	146	638942	19.620	ppbv	98
79) Naphthalene	13.520	128	7709	0.204	ppbv #	84
80) Naphthalene,2-methyl-	14.468	142	2848	0.130	ppbv #	86

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051425\
Data File : VL042541.D
Acq On : 14 May 2025 14:15
Operator : SY/MD
Sample : Q2037-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025

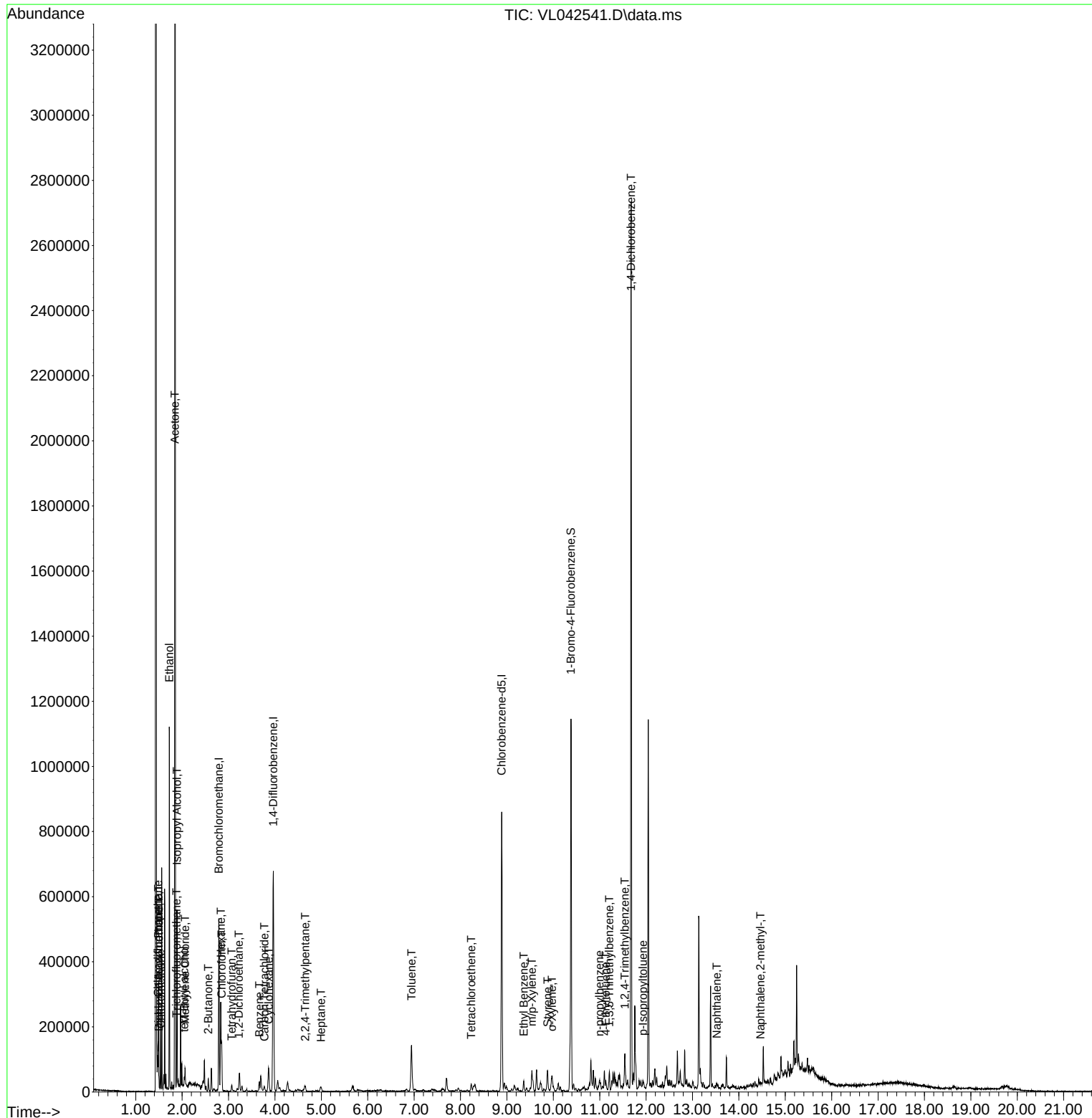
Quant Time: May 15 01:34:48 2025

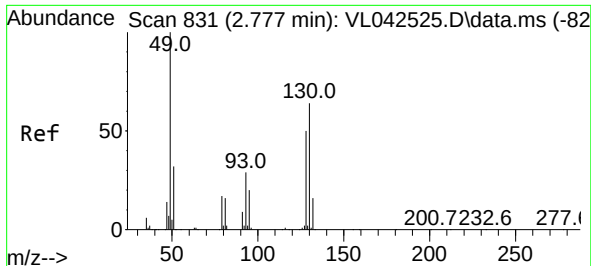
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M

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

QLast Update : Tue May 13 02:07:03 2025

Response via : Initial Calibration





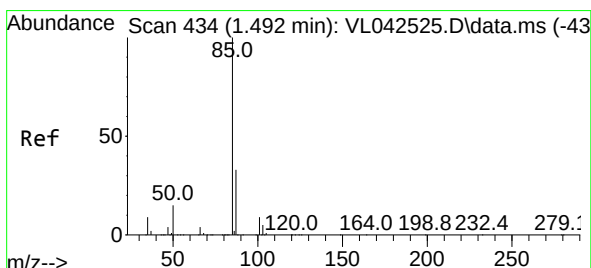
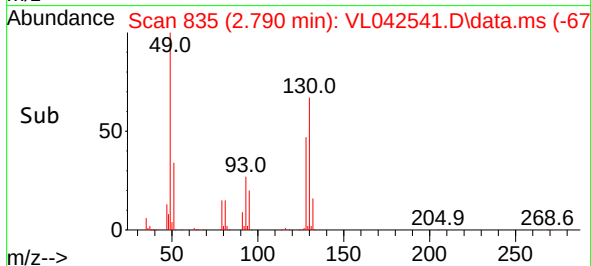
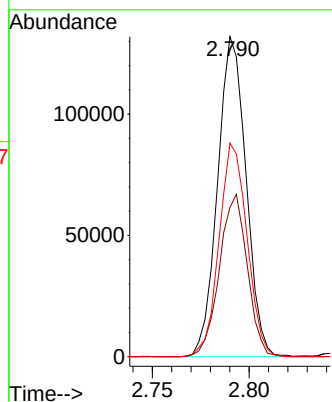
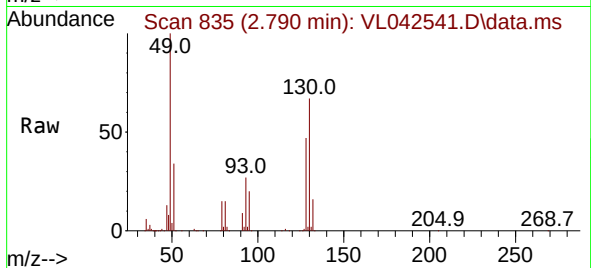
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.013 min
Lab File: VL042541.D
Acq: 14 May 2025 14:15

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 49 Resp: 134540
Ion Ratio Lower Upper
49 100
128 49.7 24.9 74.6
130 65.8 32.5 97.5

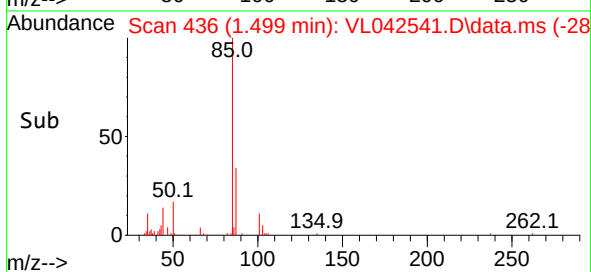
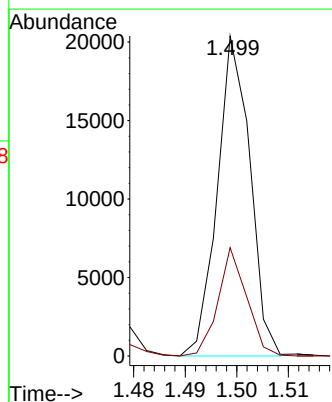
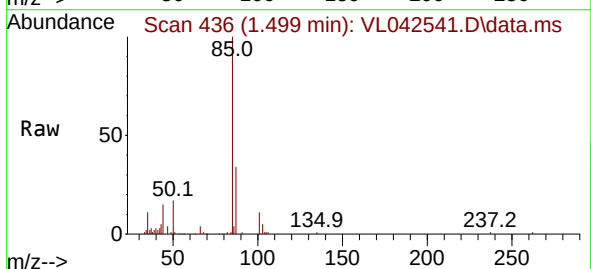
Manual Integrations
APPROVED

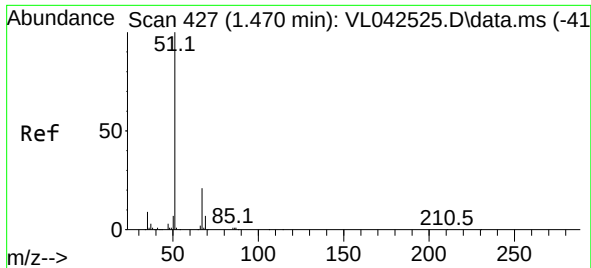
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#2
Dichlorodifluoromethane
Concen: 0.411 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.006 min
Lab File: VL042541.D
Acq: 14 May 2025 14:15

Tgt Ion: 85 Resp: 8985
Ion Ratio Lower Upper
85 100
87 33.8 26.8 40.2





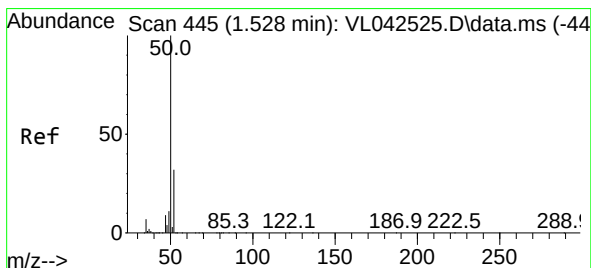
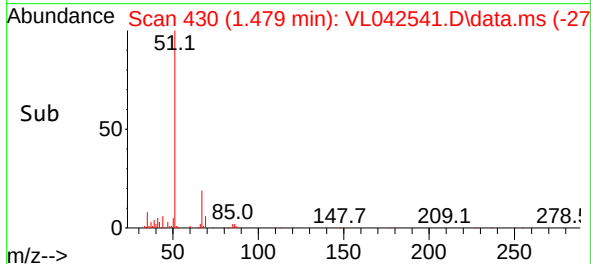
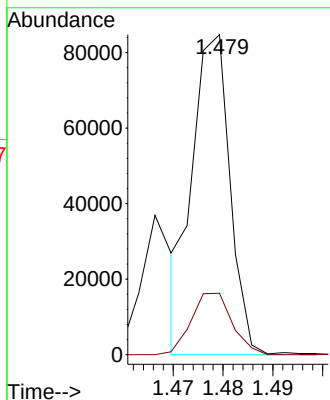
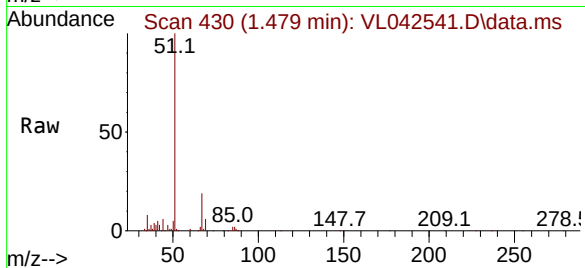
#3
Chlorodifluoromethane
Concen: 2.001 ppbv m
RT: 1.479 min Scan# 41
Delta R.T. 0.009 min
Lab File: VL042541.D
Acq: 14 May 2025 14:15

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 51 Resp: 44558
Ion Ratio Lower Upper
51 100
67 21.0 17.4 26.0

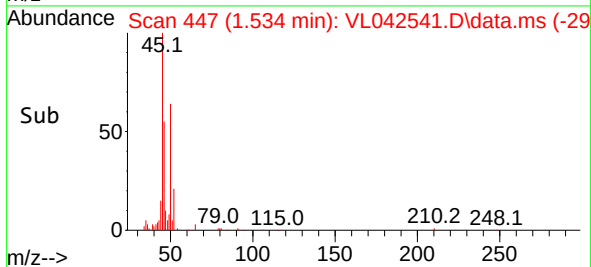
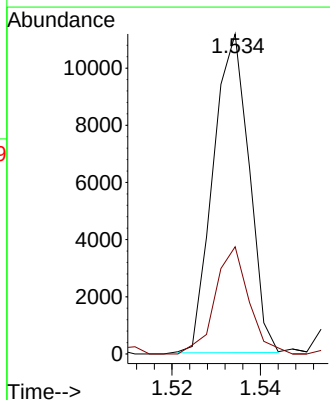
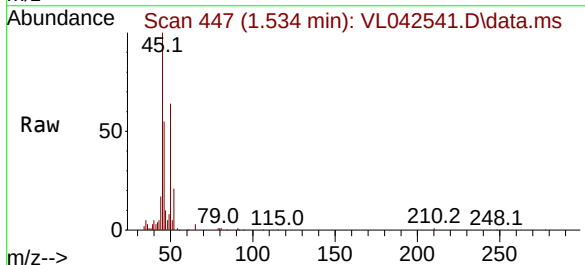
Manual Integrations
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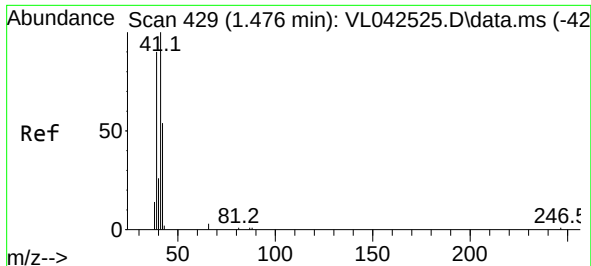
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#4
Chloromethane
Concen: 0.705 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.006 min
Lab File: VL042541.D
Acq: 14 May 2025 14:15

Tgt Ion: 50 Resp: 6285
Ion Ratio Lower Upper
50 100
52 33.7 25.9 38.9





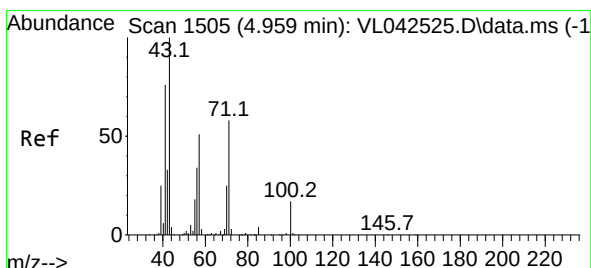
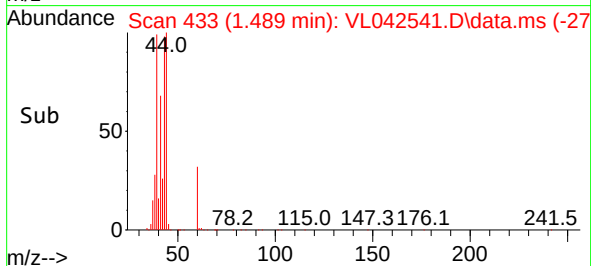
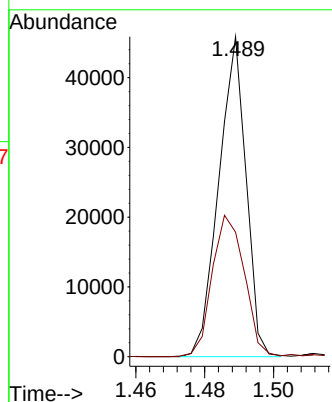
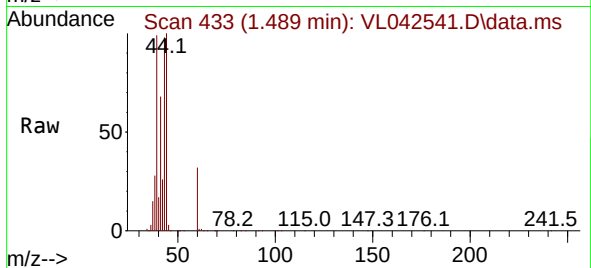
#9
 Propene
 Concen: 5.232 ppbv
 RT: 1.489 min Scan# 41
 Delta R.T. 0.013 min
 Lab File: VL042541.D
 Acq: 14 May 2025 14:15

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Tgt Ion: 41 Resp: 2526
 Ion Ratio Lower Upper
 41 100
 42 0.0 4.1 6.1

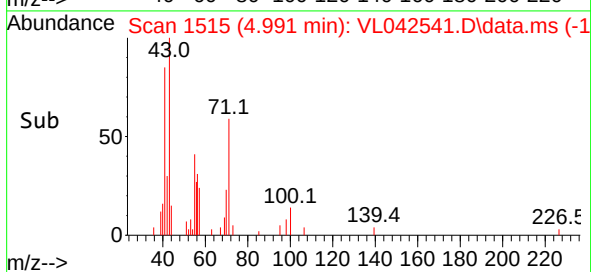
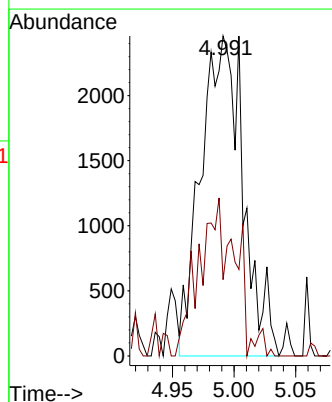
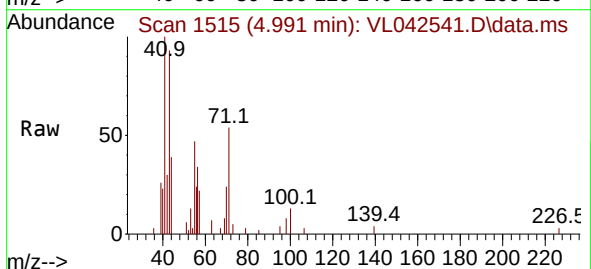
Manual Integrations
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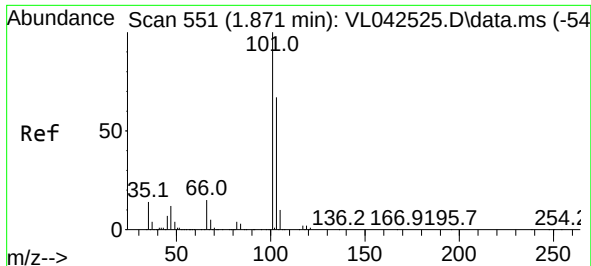
Reviewed By :Semsettin Yesilyurt 05/15/2025
 Supervised By :Mahesh Dadoda 05/15/2025



#10
 Heptane
 Concen: 0.318 ppbv m
 RT: 4.991 min Scan# 1515
 Delta R.T. 0.032 min
 Lab File: VL042541.D
 Acq: 14 May 2025 14:15

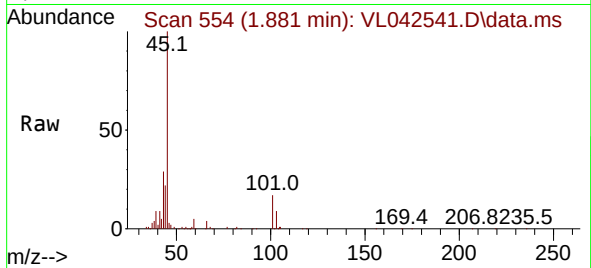
Tgt Ion: 43 Resp: 5875
 Ion Ratio Lower Upper
 43 100
 57 0.0 42.1 63.1





#11
 Trichlorofluoromethane
 Concen: 0.211 ppbv
 RT: 1.881 min Scan# 505
 Delta R.T. 0.009 min
 Lab File: VL042541.D
 Acq: 14 May 2025 14:15

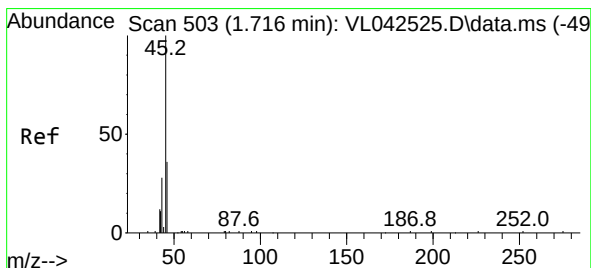
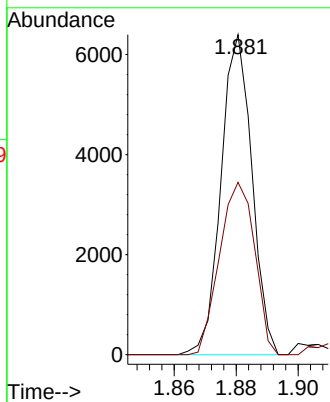
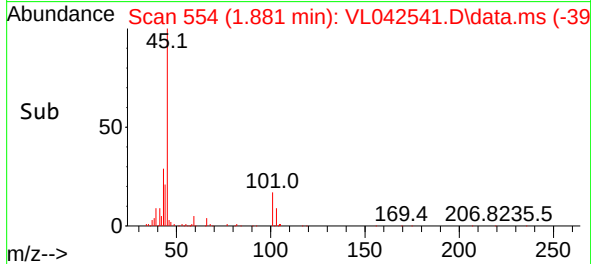
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1



Tgt Ion:101 Resp: 4432
 Ion Ratio Lower Upper
 101 100
 103 53.9 53.8 80.6

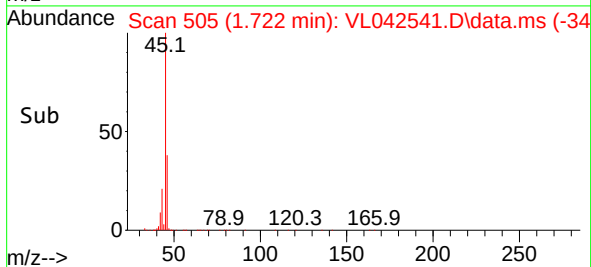
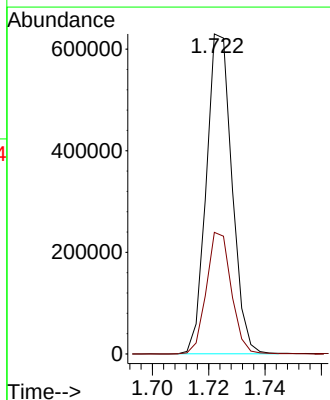
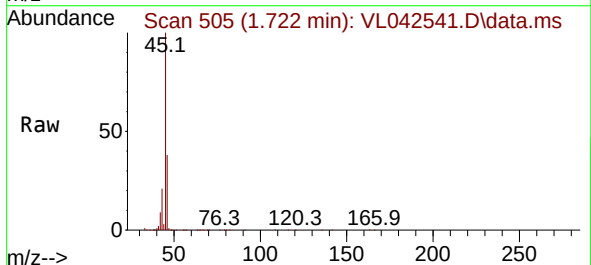
Manual Integrations
 APPROVED

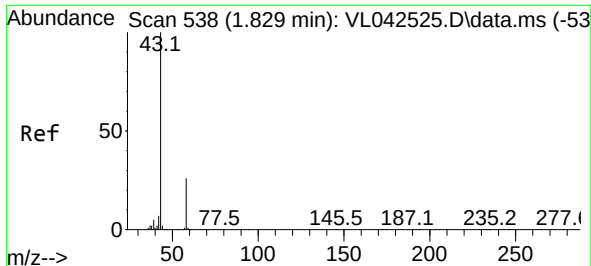
Reviewed By :Semsettin Yesilyurt 05/15/2025
 Supervised By :Mahesh Dadoda 05/15/2025



#13
 Ethanol
 Concen: 306.595 ppbv
 RT: 1.722 min Scan# 505
 Delta R.T. 0.006 min
 Lab File: VL042541.D
 Acq: 14 May 2025 14:15

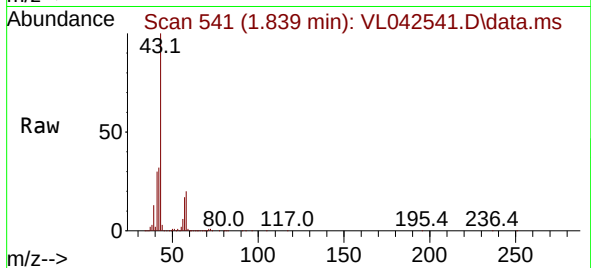
Tgt Ion: 45 Resp: 398191
 Ion Ratio Lower Upper
 45 100
 46 37.3 14.8 59.4





#15
Acetone
Concen: 16.025 ppbv m
RT: 1.839 min Scan# 541
Delta R.T. 0.009 min
Lab File: VL042541.D
Acq: 14 May 2025 14:15

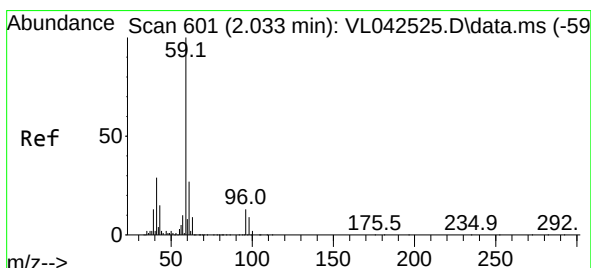
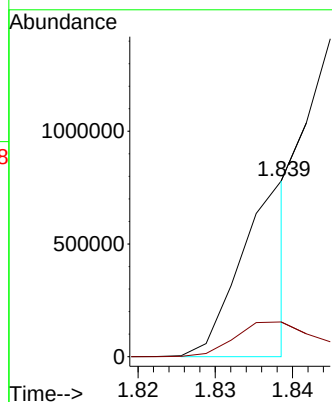
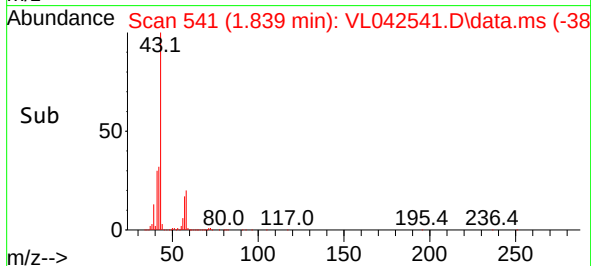
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 43 Resp: 347538
Ion Ratio Lower Upper
43 100
58 36.8 21.3 31.9

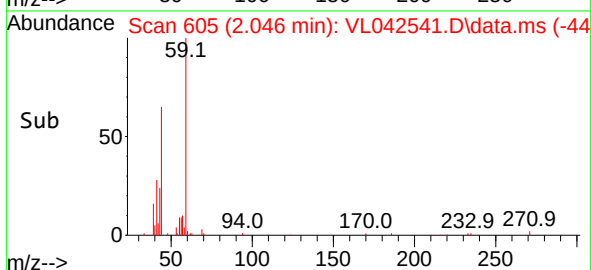
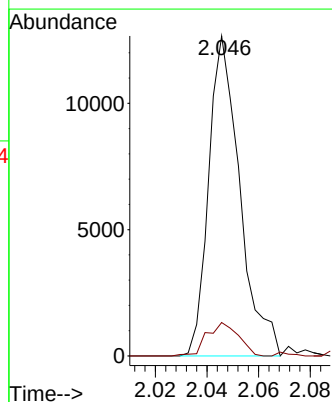
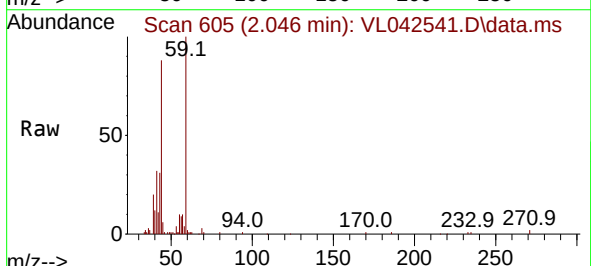
Manual Integrations
APPROVED

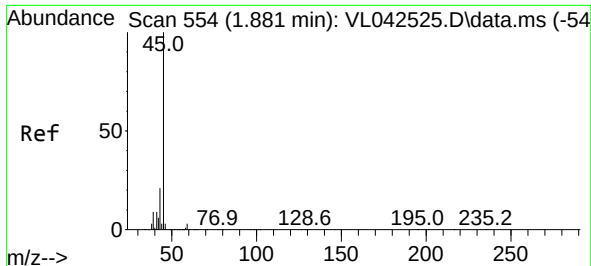
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#17
tert-Butyl alcohol
Concen: 0.534 ppbv
RT: 2.046 min Scan# 605
Delta R.T. 0.013 min
Lab File: VL042541.D
Acq: 14 May 2025 14:15

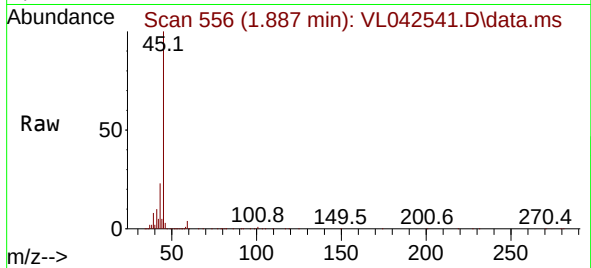
Tgt Ion: 59 Resp: 10606
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4





#19
Isopropyl Alcohol
Concen: 19.799 ppbv
RT: 1.887 min Scan# 511
Delta R.T. 0.006 min
Lab File: VL042541.D
Acq: 14 May 2025 14:15

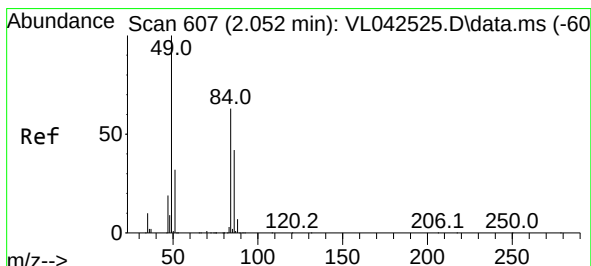
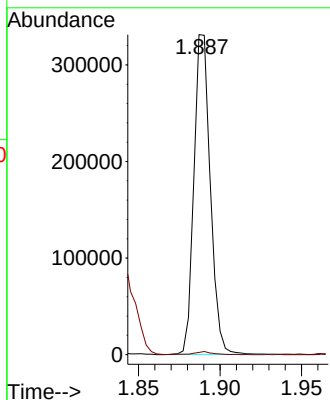
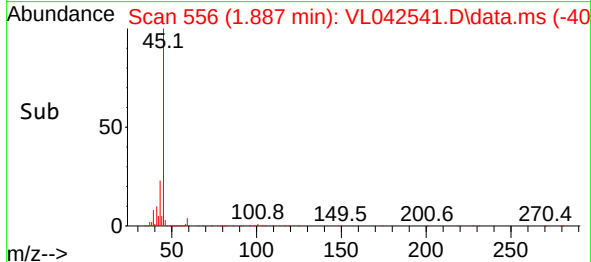
Instrument :
MSVOA_L
ClientSampleId :
IA1



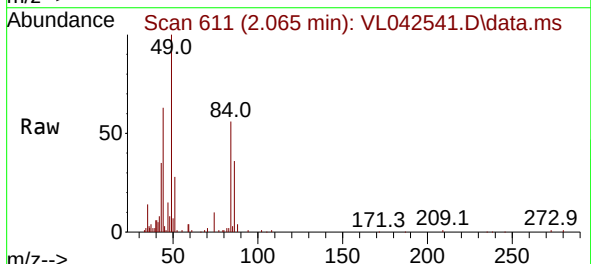
Tgt Ion: 45 Resp: 23124
Ion Ratio Lower Upper
45 100
58 55.3 1.5 2.3

Manual Integrations
APPROVED

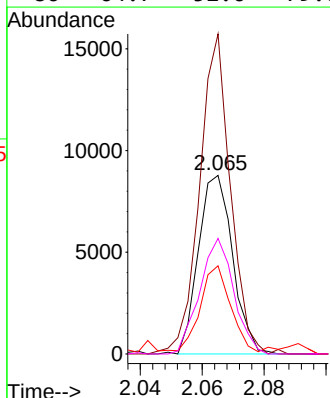
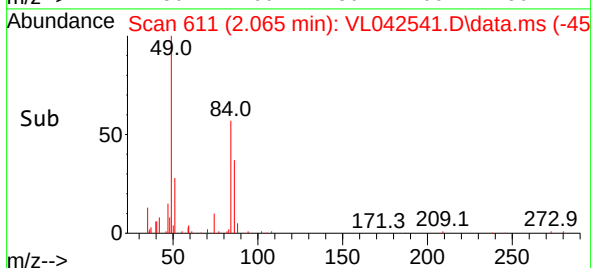
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025

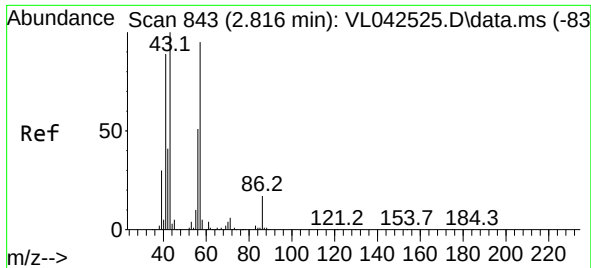


#20
Methylene Chloride
Concen: 0.898 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.013 min
Lab File: VL042541.D
Acq: 14 May 2025 14:15



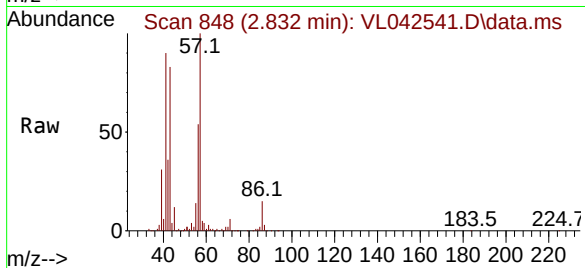
Tgt Ion: 84 Resp: 6721
Ion Ratio Lower Upper
84 100
49 176.6 128.2 192.4
51 47.6 41.7 62.5
86 64.7 52.6 79.0





#26
Hexane
Concen: 3.646 ppbv
RT: 2.832 min Scan# 843
Delta R.T. 0.016 min
Lab File: VL042541.D
Acq: 14 May 2025 14:15

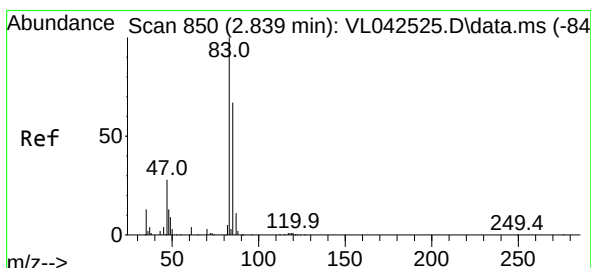
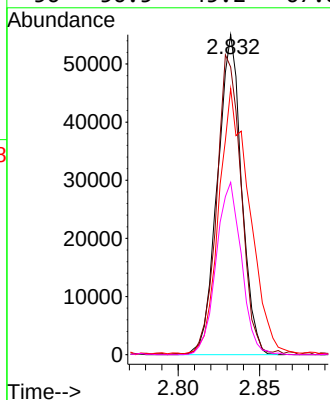
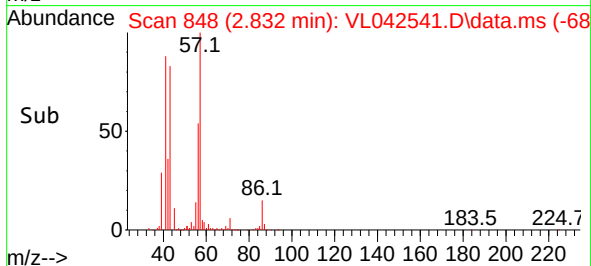
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 57 Resp: 56507
Ion Ratio Lower Upper
57 100
41 96.5 76.1 114.1
43 107.0 188.9 283.3
56 56.5 45.2 67.8

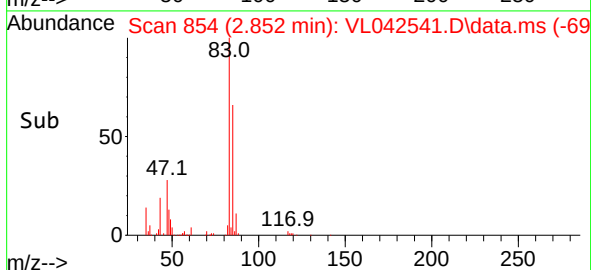
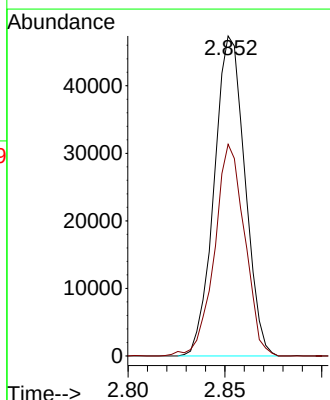
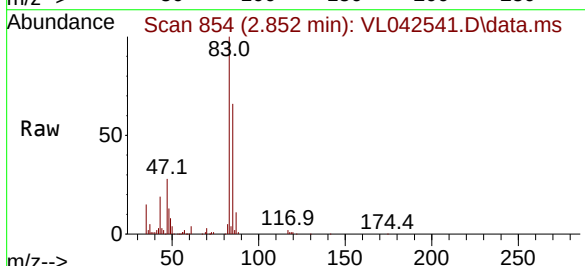
Manual Integrations
APPROVED

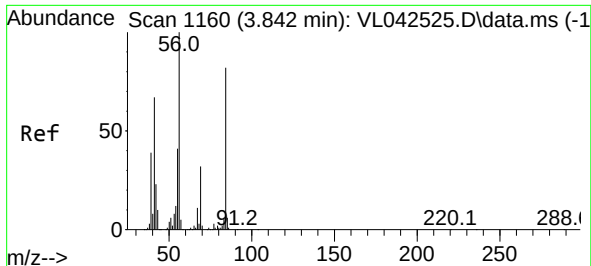
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#29
Chloroform
Concen: 1.629 ppbv
RT: 2.852 min Scan# 854
Delta R.T. 0.013 min
Lab File: VL042541.D
Acq: 14 May 2025 14:15

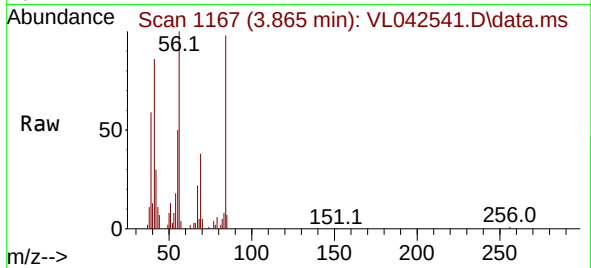
Tgt Ion: 83 Resp: 52359
Ion Ratio Lower Upper
83 100
85 66.2 53.5 80.3





#30
Cyclohexane
Concen: 1.350 ppbv
RT: 3.865 min Scan# 1160
Delta R.T. 0.022 min
Lab File: VL042541.D
Acq: 14 May 2025 14:15

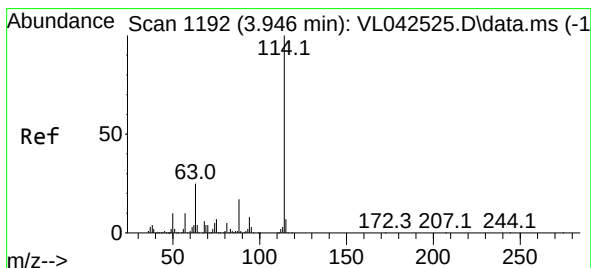
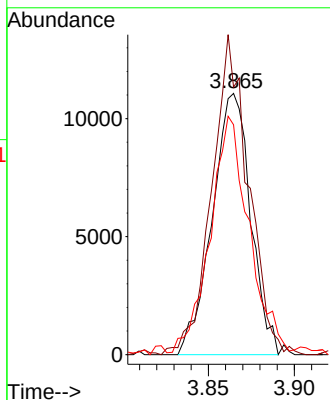
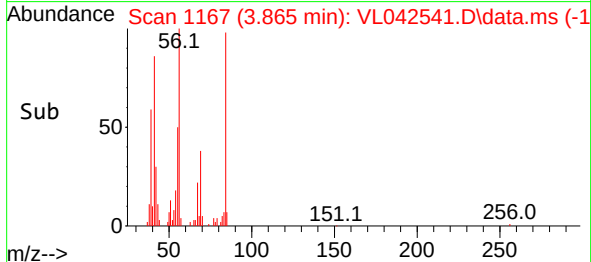
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 84 Resp: 17180
Ion Ratio Lower Upper
84 100
56 117.6 97.1 145.7
41 96.1 66.6 99.8

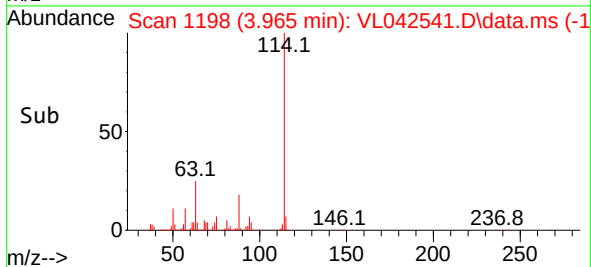
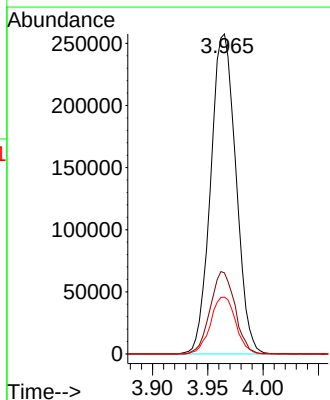
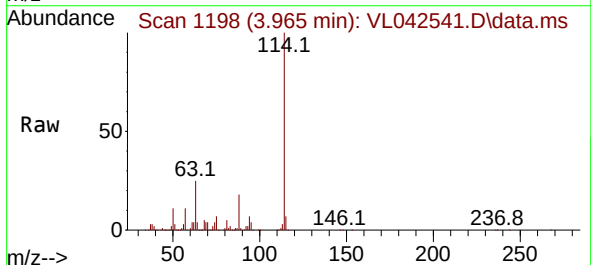
Manual Integrations
APPROVED

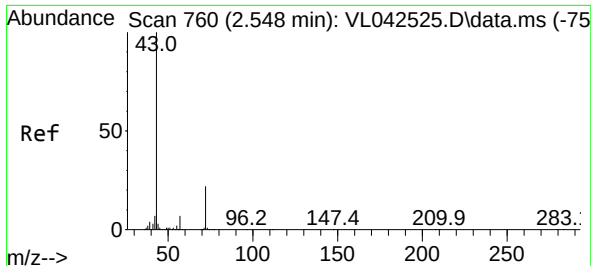
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1198
Delta R.T. 0.019 min
Lab File: VL042541.D
Acq: 14 May 2025 14:15

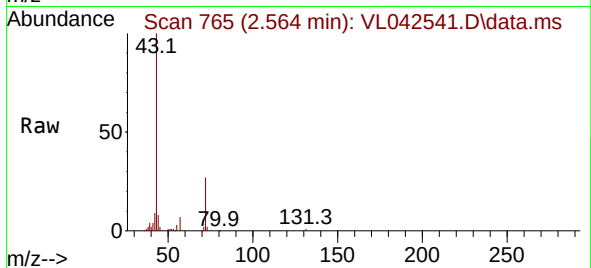
Tgt Ion:114 Resp: 408032
Ion Ratio Lower Upper
114 100
63 25.4 20.4 30.6
88 17.8 14.5 21.7





#34
2-Butanone
Concen: 0.822 ppbv
RT: 2.564 min Scan# 760
Delta R.T. 0.016 min
Lab File: VL042541.D
Acq: 14 May 2025 14:15

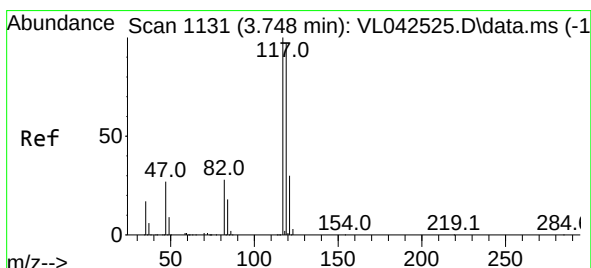
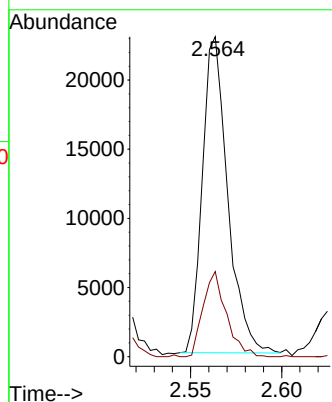
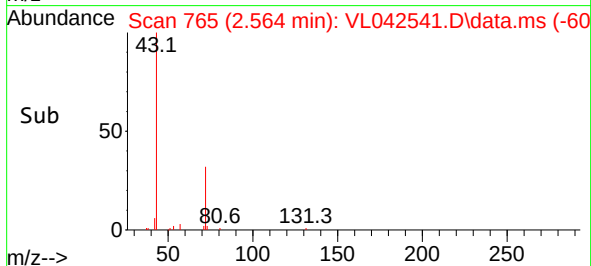
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 43 Resp: 22109
Ion Ratio Lower Upper
43 100
72 24.8 18.7 28.1

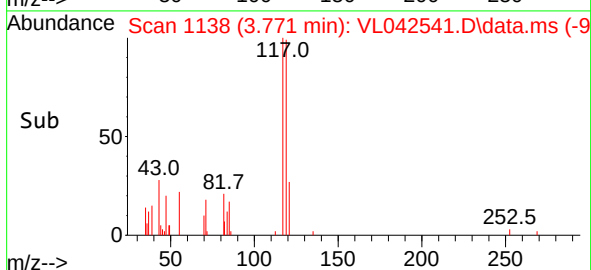
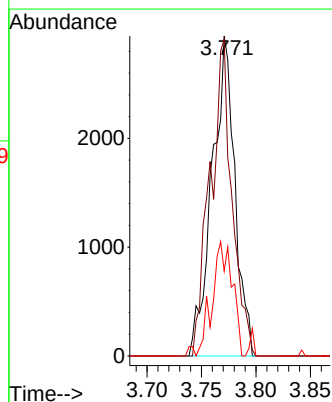
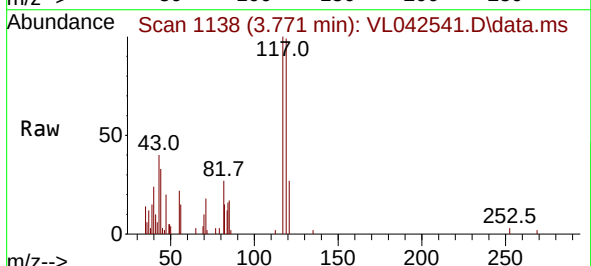
Manual Integrations
APPROVED

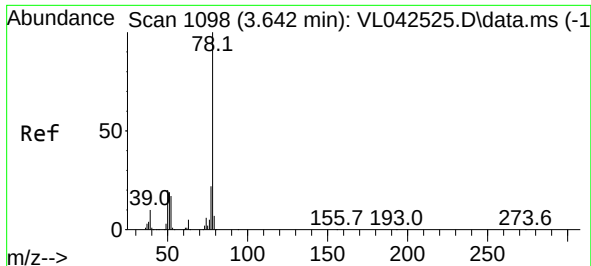
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#35
Carbon Tetrachloride
Concen: 0.117 ppbv m
RT: 3.771 min Scan# 1138
Delta R.T. 0.022 min
Lab File: VL042541.D
Acq: 14 May 2025 14:15

Tgt Ion:117 Resp: 4285
Ion Ratio Lower Upper
117 100
119 99.0 77.7 116.5
121 26.6 24.0 36.0





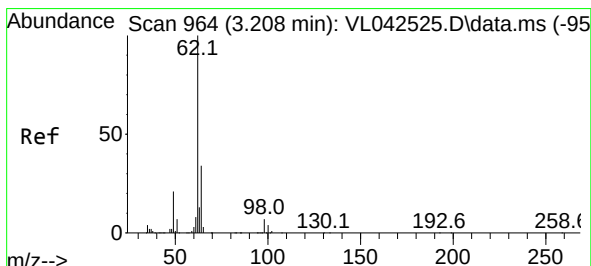
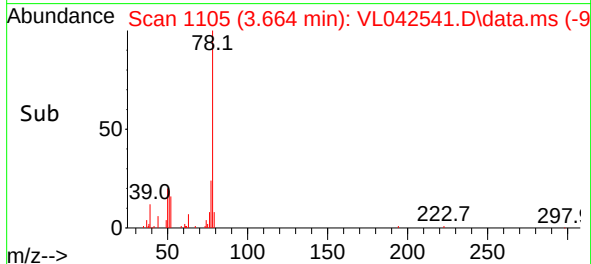
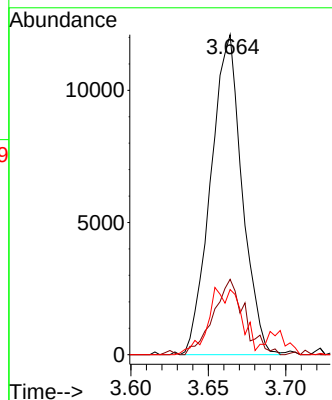
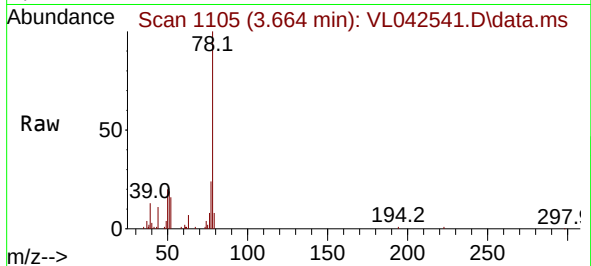
#36
Benzene
Concen: 0.471 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.022 min
Lab File: VL042541.D
Acq: 14 May 2025 14:15

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 78 Resp: 17040
Ion Ratio Lower Upper
78 100
77 23.6 17.4 26.2
50 19.9 16.3 24.5

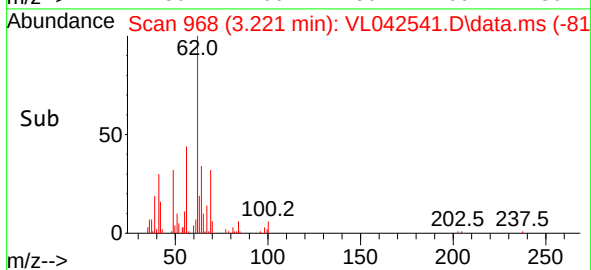
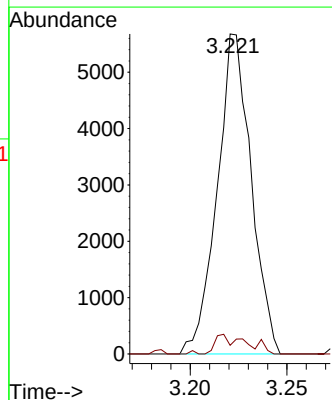
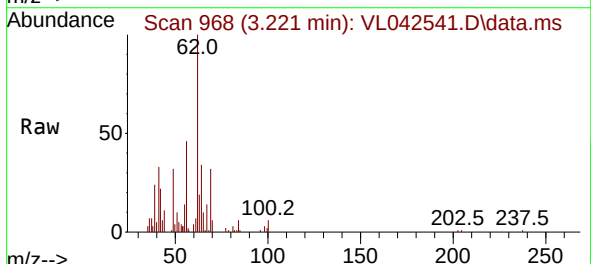
Manual Integrations
APPROVED

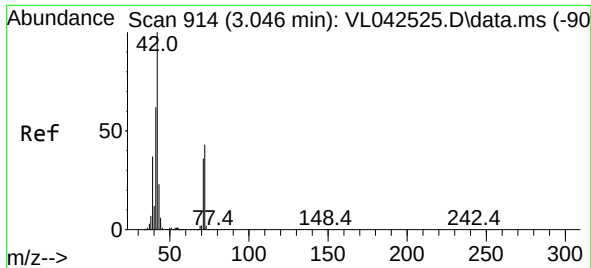
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#37
1,2-Dichloroethane
Concen: 0.269 ppbv
RT: 3.221 min Scan# 968
Delta R.T. 0.013 min
Lab File: VL042541.D
Acq: 14 May 2025 14:15

Tgt Ion: 62 Resp: 6929
Ion Ratio Lower Upper
62 100
98 5.8 5.0 7.4





#41

Tetrahydrofuran

Concen: 0.441 ppbv m

RT: 3.068 min Scan# 914

Delta R.T. 0.022 min

Lab File: VL042541.D

Acq: 14 May 2025 14:15

Instrument :

MSVOA_L

ClientSampleId :

IA1

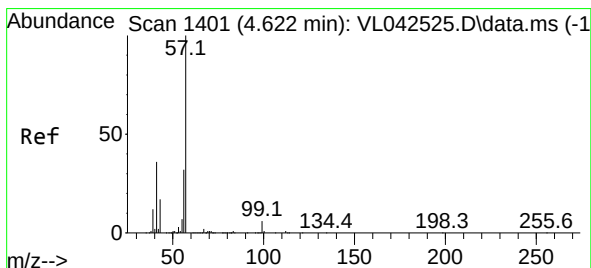
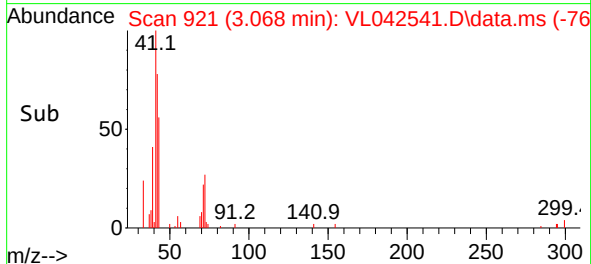
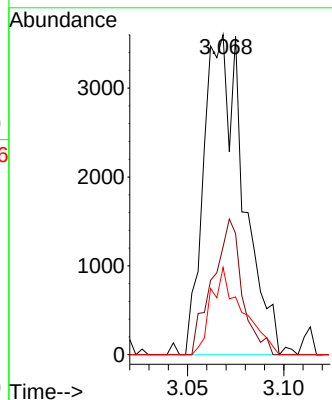
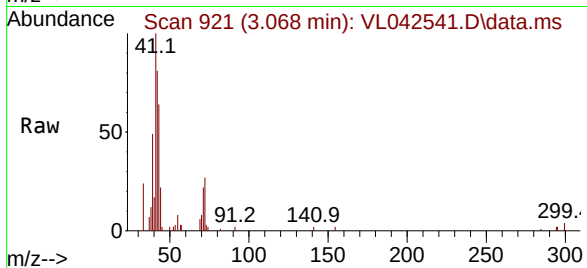
Tgt Ion:	42	Resp:	513
Ion Ratio	Lower	Upper	
42	100		
72	32.0	32.7	49.1
71	21.6	30.4	45.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/15/2025

Supervised By :Mahesh Dadoda 05/15/2025



#44

2,2,4-Trimethylpentane

Concen: 0.215 ppbv m

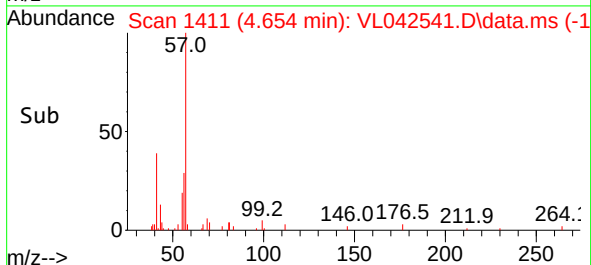
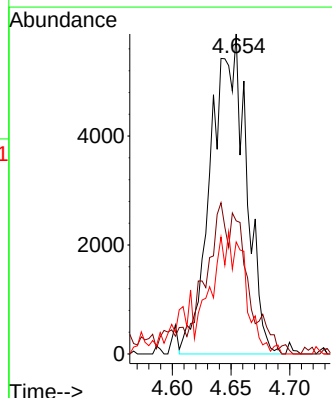
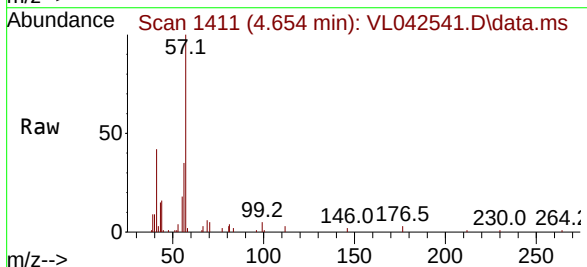
RT: 4.654 min Scan# 1411

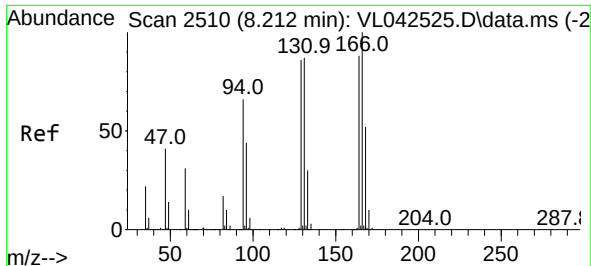
Delta R.T. 0.032 min

Lab File: VL042541.D

Acq: 14 May 2025 14:15

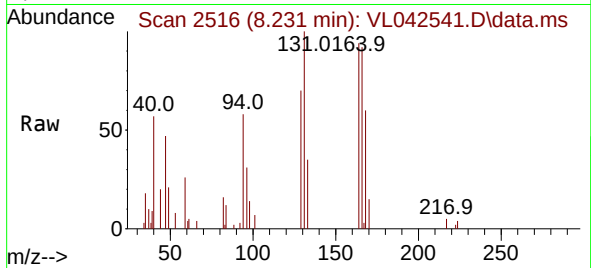
Tgt Ion:	57	Resp:	12329
Ion Ratio	Lower	Upper	
57	100		
41	60.9	28.3	42.5
56	0.0	25.9	38.9





#52
Tetrachloroethene
Concen: 0.251 ppbv
RT: 8.231 min Scan# 2118
Delta R.T. 0.019 min
Lab File: VL042541.D
Acq: 14 May 2025 14:15

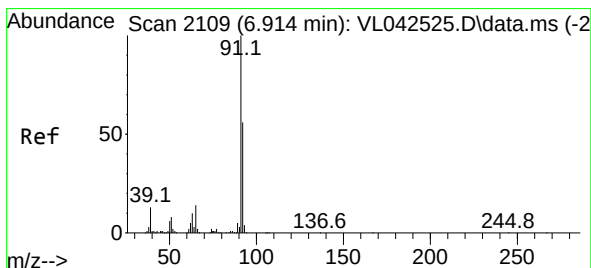
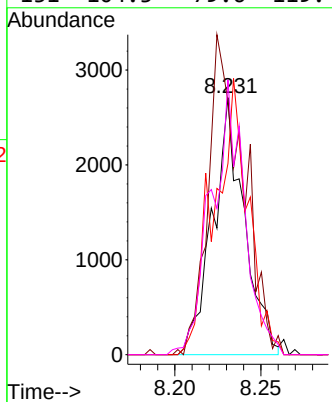
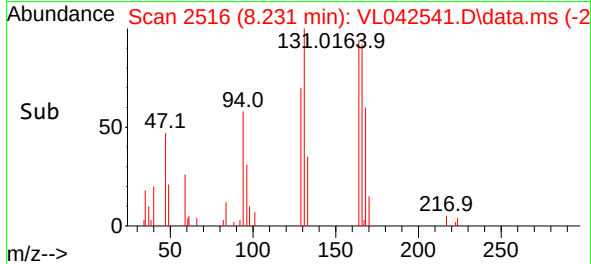
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion:164 Resp: 3460
Ion Ratio Lower Upper
164 100
166 96.6 91.3 136.9
129 74.4 78.9 118.3
131 104.3 79.6 119.4

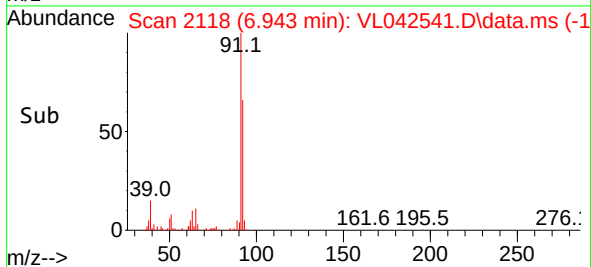
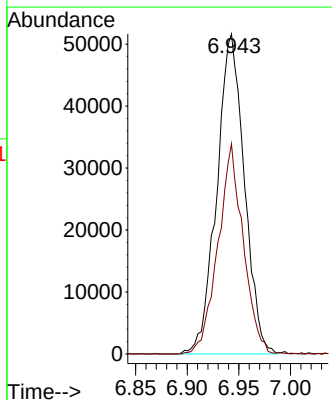
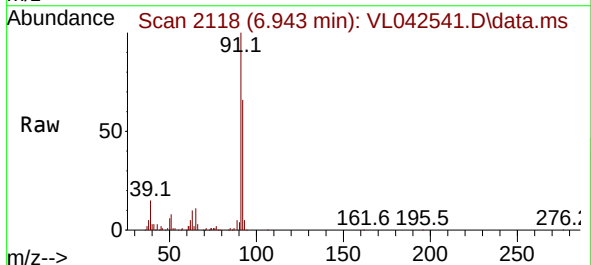
Manual Integrations
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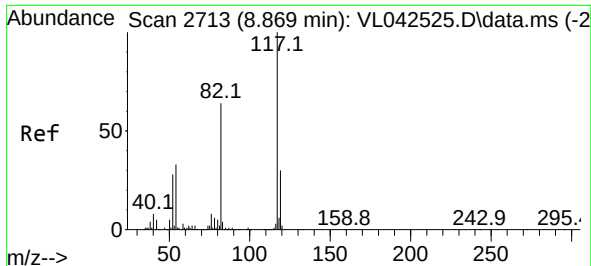
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#53
Toluene
Concen: 2.701 ppbv
RT: 6.943 min Scan# 2118
Delta R.T. 0.029 min
Lab File: VL042541.D
Acq: 14 May 2025 14:15

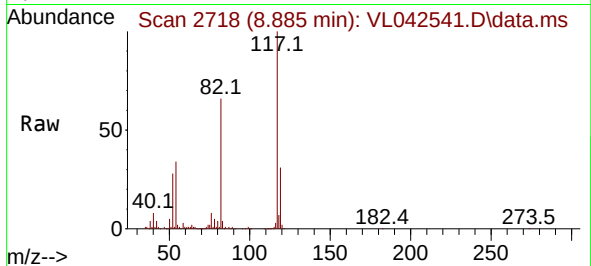
Tgt Ion: 91 Resp: 95844
Ion Ratio Lower Upper
91 100
92 60.2 47.8 71.6





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. 0.016 min
Lab File: VL042541.D
Acq: 14 May 2025 14:15

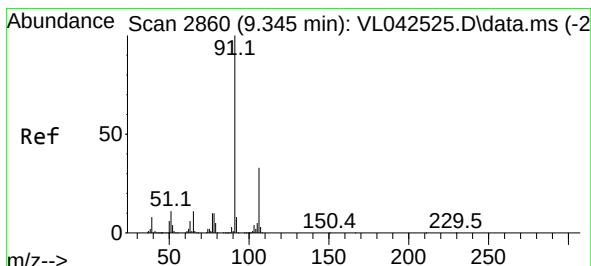
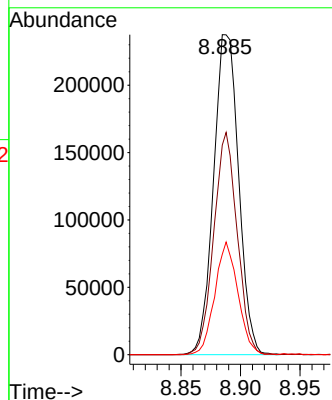
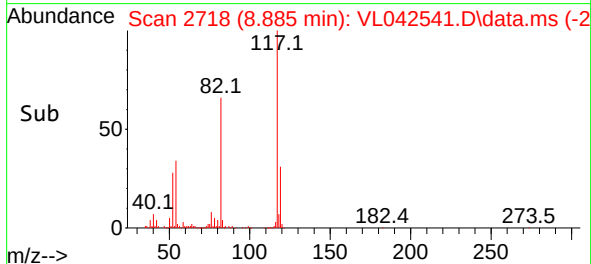
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 117 Resp: 347758
Ion Ratio Lower Upper
117 100
82 64.8 55.0 82.4
119 32.6 25.8 38.6

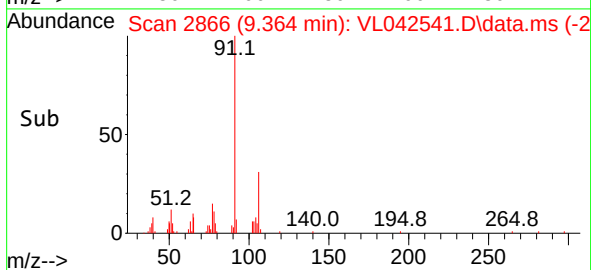
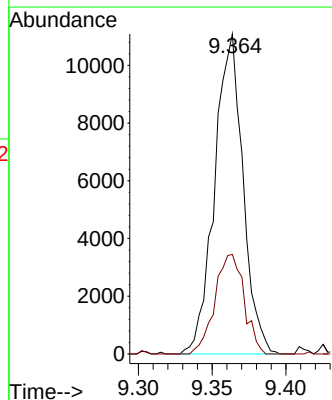
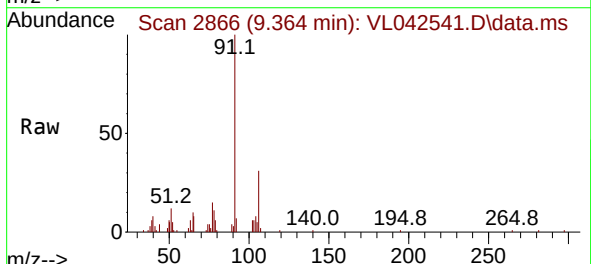
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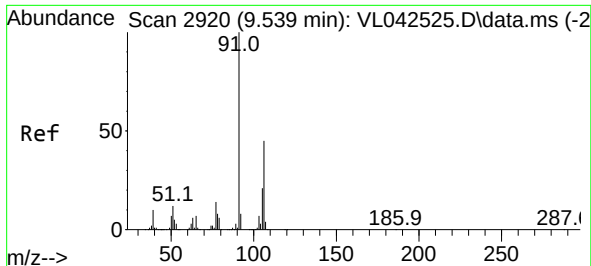
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#58
Ethyl Benzene
Concen: 0.313 ppbv
RT: 9.364 min Scan# 2866
Delta R.T. 0.019 min
Lab File: VL042541.D
Acq: 14 May 2025 14:15

Tgt Ion: 91 Resp: 14851
Ion Ratio Lower Upper
91 100
106 31.1 26.0 39.0





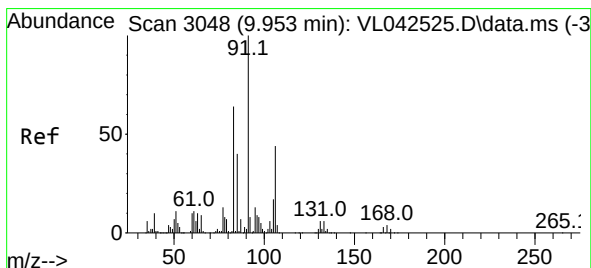
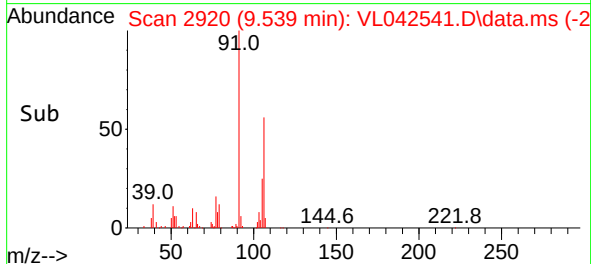
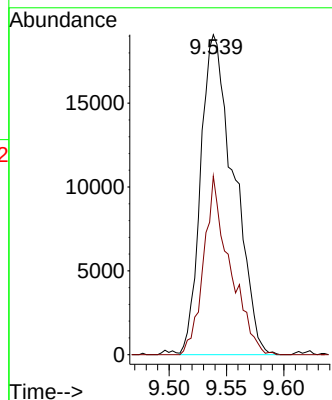
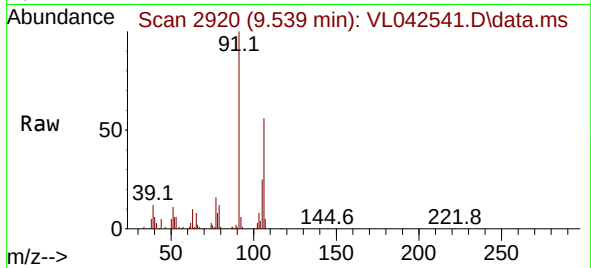
#59
m/p-Xylene
Concen: 0.911 ppbv
RT: 9.539 min Scan# 2920
Delta R.T. -0.000 min
Lab File: VL042541.D
Acq: 14 May 2025 14:15

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 91 Resp: 3833
Ion Ratio Lower Upper
91 100
106 44.2 0.0 0.0

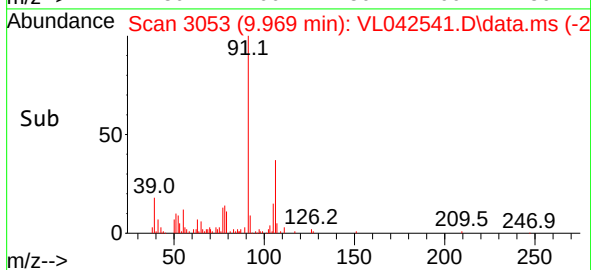
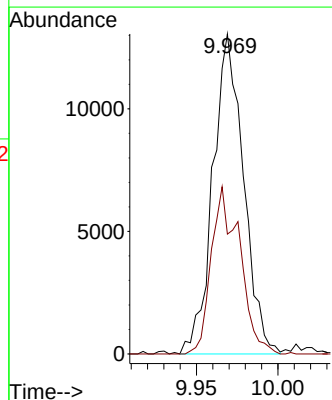
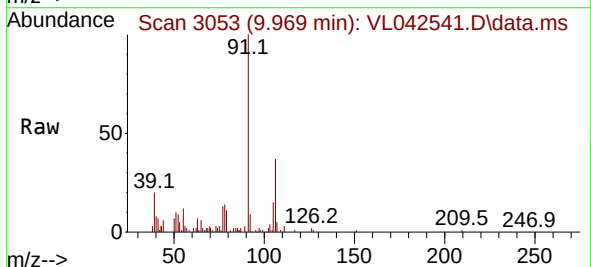
Manual Integrations
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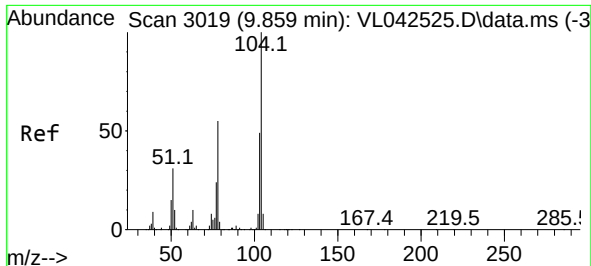
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#60
o-Xylene
Concen: 0.415 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. 0.016 min
Lab File: VL042541.D
Acq: 14 May 2025 14:15

Tgt Ion: 91 Resp: 17042
Ion Ratio Lower Upper
91 100
106 48.7 21.6 64.6





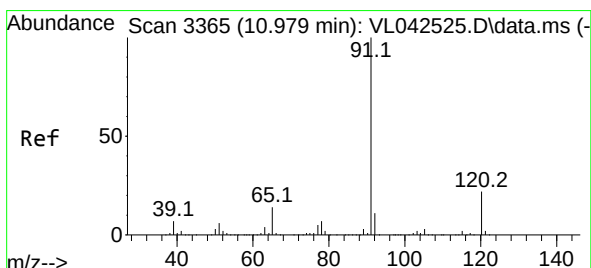
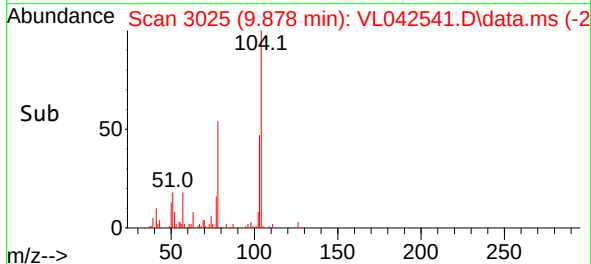
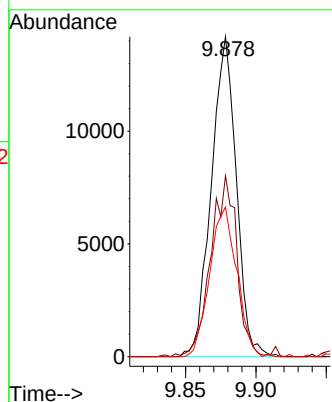
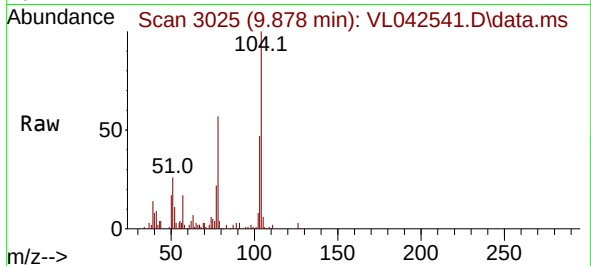
#61
Styrene
Concen: 1.151 ppbv
RT: 9.878 min Scan# 3019
Delta R.T. 0.019 min
Lab File: VL042541.D
Acq: 14 May 2025 14:15

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion:104 Resp: 1752
Ion Ratio Lower Upper
104 100
78 59.7 44.7 67.1
103 50.8 38.6 58.0

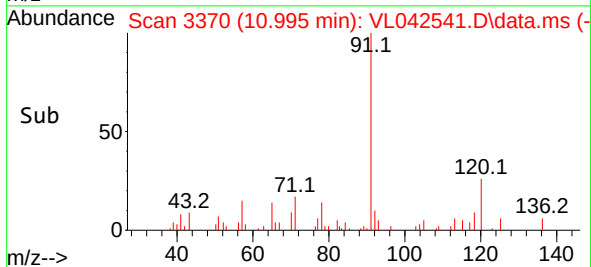
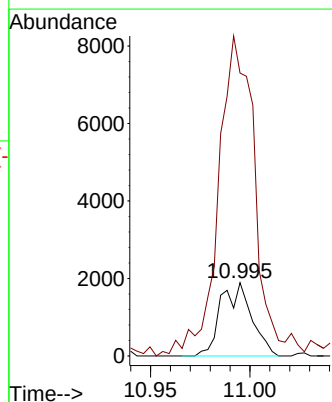
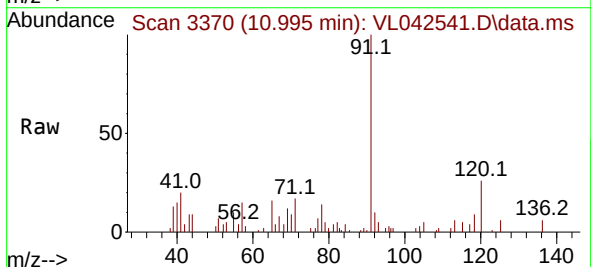
Manual Integrations
APPROVED

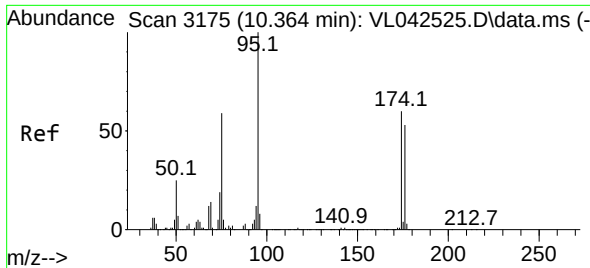
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#64
n-propylbenzene
Concen: 0.130 ppbv m
RT: 10.995 min Scan# 3370
Delta R.T. 0.016 min
Lab File: VL042541.D
Acq: 14 May 2025 14:15

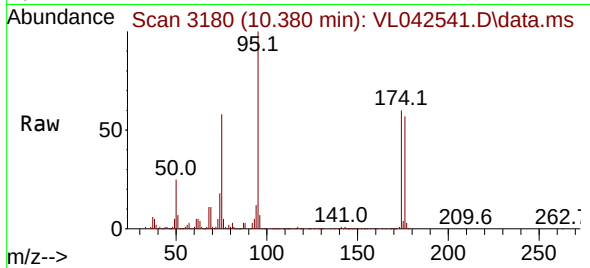
Tgt Ion:120 Resp: 2044
Ion Ratio Lower Upper
120 100
91 24.5 377.7 566.5#





#68
1-Bromo-4-Fluorobenzene
Concen: 9.897 ppbv
RT: 10.380 min Scan# 3175
Delta R.T. 0.016 min
Lab File: VL042541.D
Acq: 14 May 2025 14:15

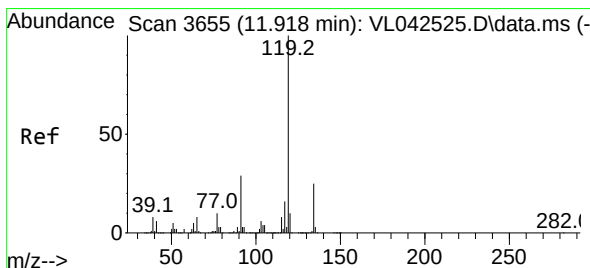
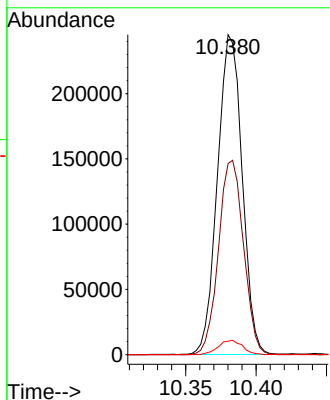
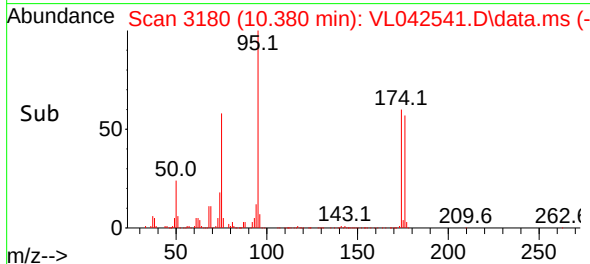
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 95 Resp: 29946
Ion Ratio Lower Upper
95 100
174 61.6 48.0 72.0
175 4.4 3.5 5.3

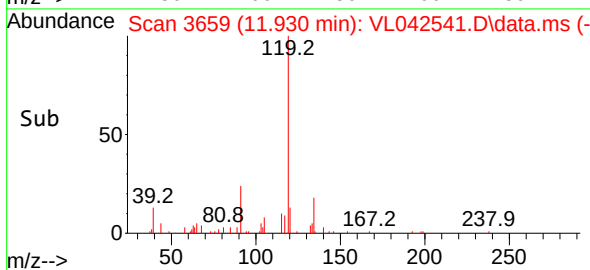
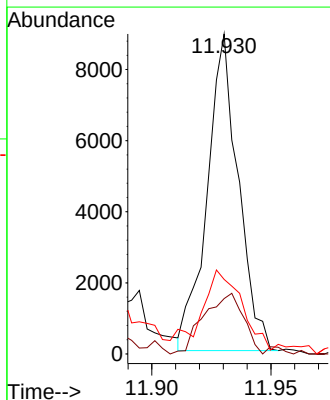
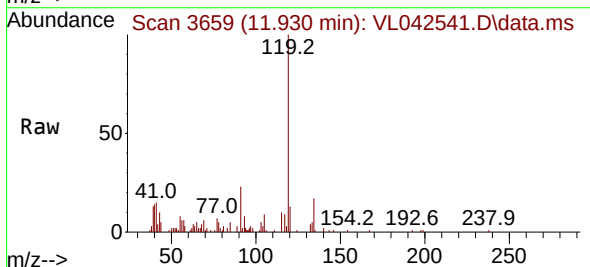
Manual Integrations
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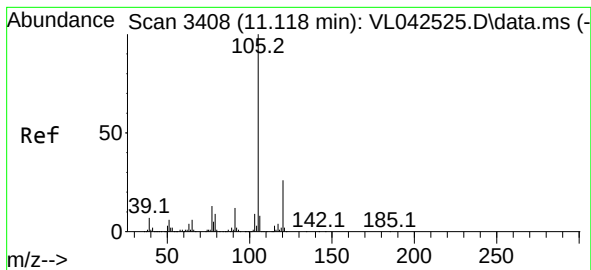
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#69
p-Isopropyltoluene
Concen: 0.121 ppbv
RT: 11.930 min Scan# 3659
Delta R.T. 0.013 min
Lab File: VL042541.D
Acq: 14 May 2025 14:15

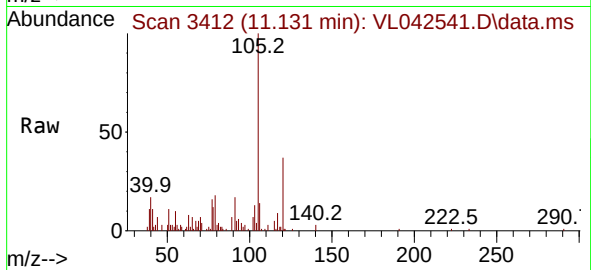
Tgt Ion:119 Resp: 8127
Ion Ratio Lower Upper
119 100
134 25.6 19.8 29.6
91 33.6 23.6 35.4





#72
4-Ethyltoluene
Concen: 0.185 ppbv
RT: 11.131 min Scan# 3408
Delta R.T. 0.013 min
Lab File: VL042541.D
Acq: 14 May 2025 14:15

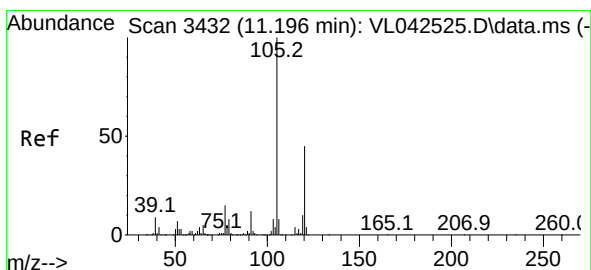
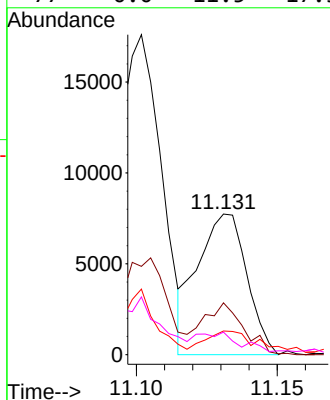
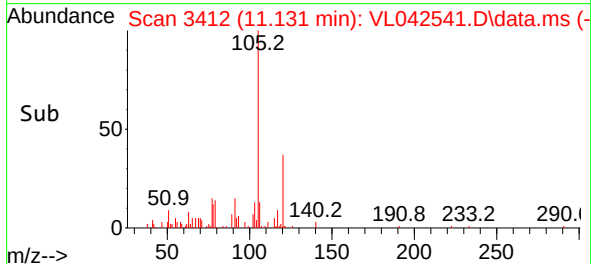
Instrument :
MSVOA_L
ClientSampleId :
IA1



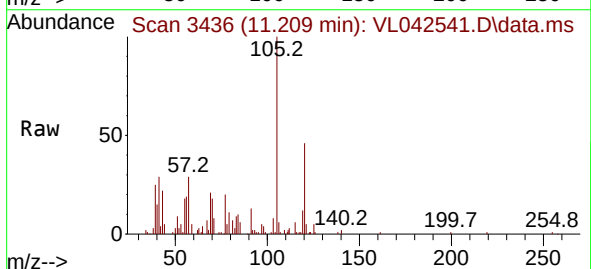
Tgt Ion:105 Resp: 944
Ion Ratio Lower Upper
105 100
120 0.0 22.9 34.3
91 16.8 10.9 16.3
77 0.0 11.5 17.3#

Manual Integrations
APPROVED

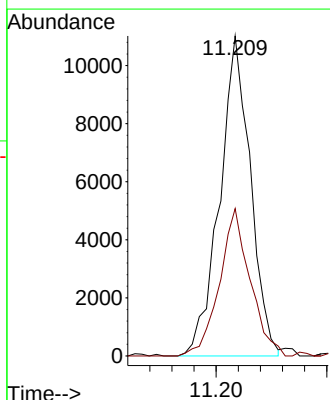
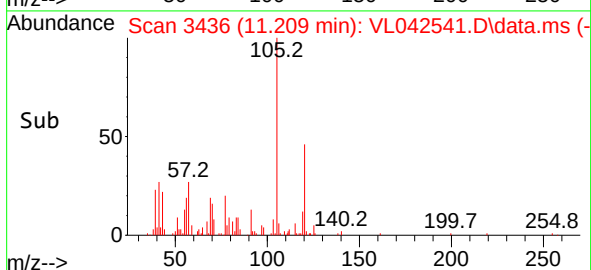
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025

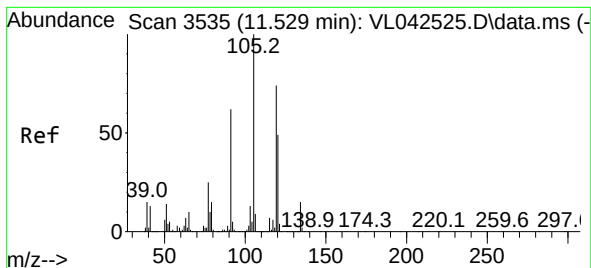


#73
1,3,5-Trimethylbenzene
Concen: 0.239 ppbv
RT: 11.209 min Scan# 3436
Delta R.T. 0.013 min
Lab File: VL042541.D
Acq: 14 May 2025 14:15



Tgt Ion:105 Resp: 10634
Ion Ratio Lower Upper
105 100
120 46.1 36.0 54.0





#74

1,2,4-Trimethylbenzene

Concen: 0.599 ppbv

RT: 11.542 min Scan# 3535

Delta R.T. 0.013 min

Lab File: VL042541.D

Acq: 14 May 2025 14:15

Instrument :

MSVOA_L

ClientSampleId :

IA1

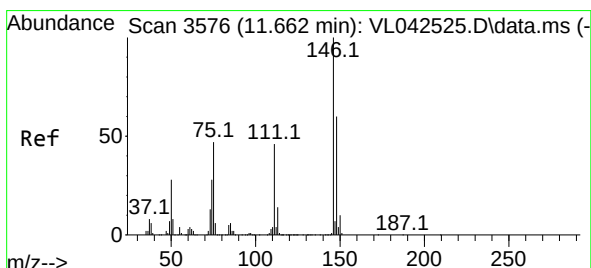
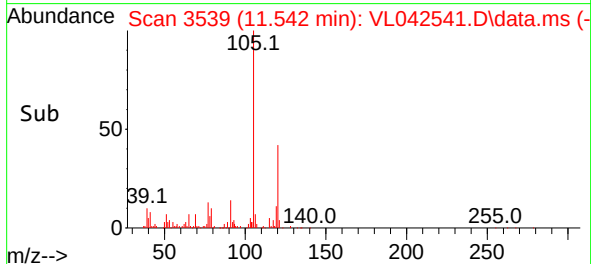
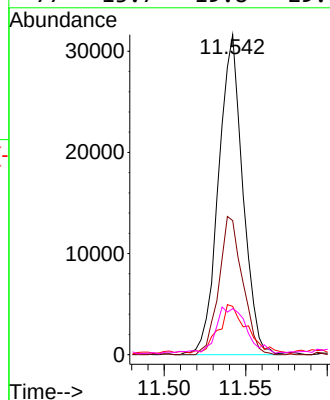
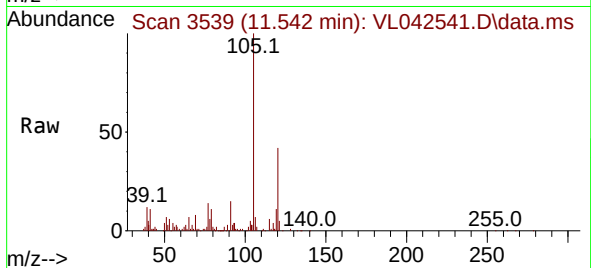
Tgt Ion:	105	Resp:	3273
Ion Ratio	Lower	Upper	
105	100		
120	41.9	39.0	58.6
91	14.1	49.4	74.2
77	13.7	19.8	29.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/15/2025

Supervised By :Mahesh Dadoda 05/15/2025



#76

1,4-Dichlorobenzene

Concen: 19.620 ppbv

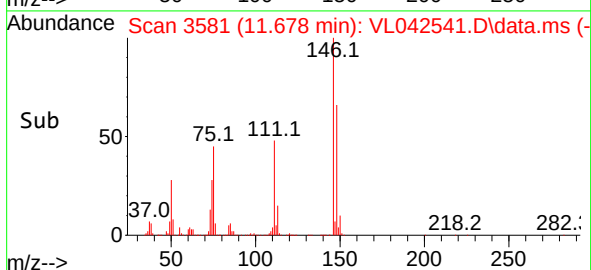
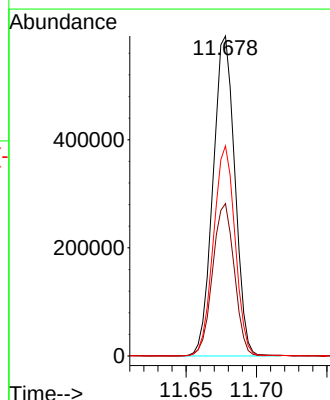
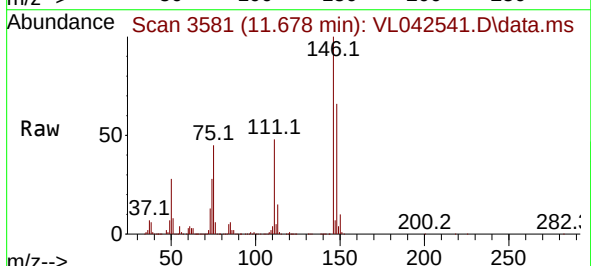
RT: 11.678 min Scan# 3581

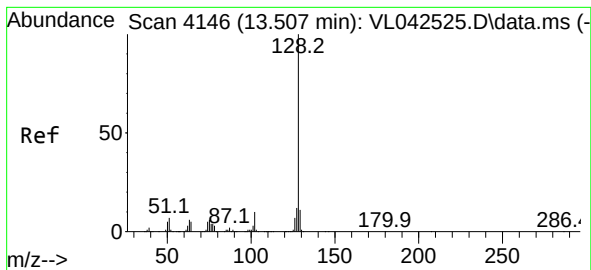
Delta R.T. 0.016 min

Lab File: VL042541.D

Acq: 14 May 2025 14:15

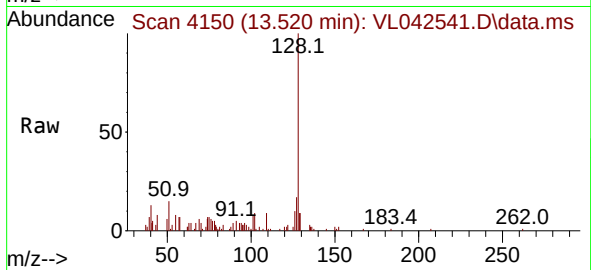
Tgt Ion:	146	Resp:	638942
Ion Ratio	Lower	Upper	
146	100		
111	47.6	23.4	70.3
148	65.1	31.6	94.7





#79
Naphthalene
Concen: 0.204 ppbv
RT: 13.520 min Scan# 4146
Delta R.T. 0.013 min
Lab File: VL042541.D
Acq: 14 May 2025 14:15

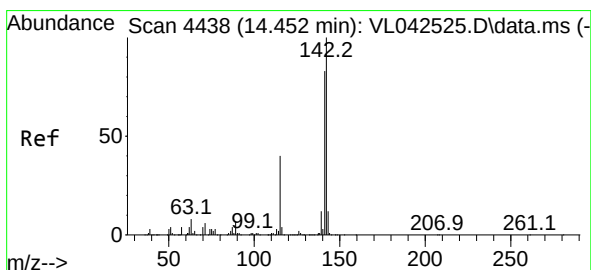
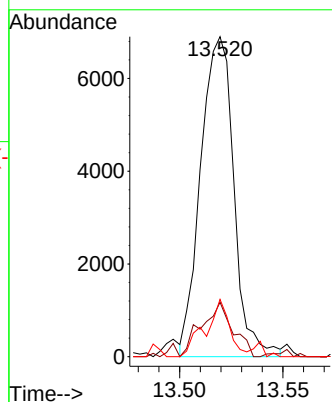
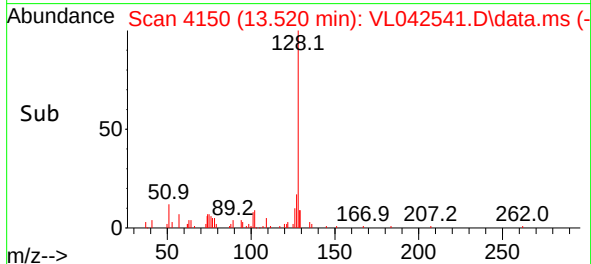
Instrument :
MSVOA_L
ClientSampleId :
IA1



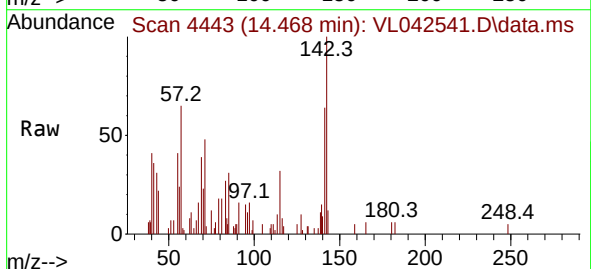
Tgt Ion:128 Resp: 7709
Ion Ratio Lower Upper
128 100
127 17.4 9.8 14.8
129 18.3 8.6 12.8

Manual Integrations
APPROVED

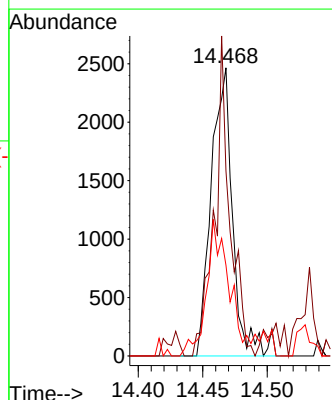
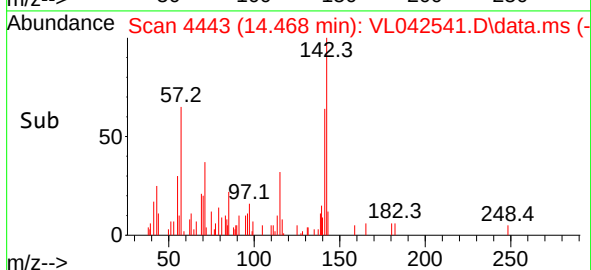
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#80
Naphthalene,2-methyl-
Concen: 0.130 ppbv
RT: 14.468 min Scan# 4443
Delta R.T. 0.016 min
Lab File: VL042541.D
Acq: 14 May 2025 14:15



Tgt Ion:142 Resp: 2848
Ion Ratio Lower Upper
142 100
141 90.7 66.8 100.2
115 57.1 33.0 49.6





CALIBRATION SUMMARY

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: GFEL01
 Lab Code: CHEM Case No.: Q2037 SAS No.: Q2037 SDG No.: Q2037
 Instrument ID: MSVOA_L Calibration Date(s): 05/12/2025 05/12/2025
 Heated Purge: (Y/N) N Calibration Time(s): 08:57 14:28
 GC Column: RTX-1 ID: 0.32 (mm)

LAB FILE ID:		RRF010 = VL042525.D		RRF001 = VL042527.D		RRF0.5 = VL042528.D		
		RRF0.1 = VL042529.D		RRF.03 = VL042530.D		RRF002 = VL042532.D		
COMPOUND	RRF010	RRF001	RRF0.5	RRF0.1	RRF.03	RRF002	RRF	% RSD
Vinyl Chloride	0.554	0.636	0.708	0.804	0.788	0.654	0.678	13.8
1,1-Dichloroethene	0.492	0.542	0.611			0.570	0.550	8
cis-1,2-Dichloroethene	1.273	1.207	1.330			1.271	1.301	6.2
1,1,1-Trichloroethane	2.249	2.301	2.385	2.559	2.897	2.450	2.465	8.7
Trichloroethene	0.360	0.352	0.333	0.397	0.461	0.384	0.385	11
Tetrachloroethene	0.314	0.317	0.326	0.445	0.297	0.318	0.339	14.7
1-Bromo-4-Fluorobenzene	0.873	0.873	0.883	0.839	0.851	0.891	0.870	2.1

* Compounds with required minimum RRF and maximum %RSD values.
 All other compounds must meet a minimum RRF of 0.010.
 RRF of 1,4-Dioxane = Value should be divide by 1000.

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

Method File : VL051225AIR.M

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

Last Update : Tue May 13 02:07:03 2025

Response Via : Initial Calibration

Calibration Files

0.03=VL042530.D 0.1 =VL042529.D 0.5 =VL042528.D 1 =VL042527.D 2 =VL042532.D 10 =VL042525.D 15 =VL042533.D

Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD
-----ISTD-----									
1) I Bromochloromethane									
2) T Dichlorodifluo...			1.836	1.568	1.689	1.461	1.566	1.624	8.83
3) Chlorodifluoro...			1.653	1.639	1.800	1.544	1.638	1.655	5.56
4) Chloromethane			0.697	0.667	0.743	0.585	0.621	0.663	9.38
5) T Vinyl Chloride	0.788	0.804	0.708	0.636	0.654	0.554	0.603	0.678	13.77
6) T Bromomethane			0.357	0.319	0.333	0.292	0.310	0.322	7.68
7) Chloroethane			0.274	0.303	0.300	0.223	0.239	0.268	13.53
8) T Dichlorotetra...			1.617	1.385	1.435	1.234	1.315	1.397	10.33
9) T Propene			0.511	0.426	0.166	0.089	0.602	0.359	61.84
10) T Heptane			1.185	1.153	1.364	1.480	1.675	1.371	15.75
11) T Trichlorofluor...			1.696	1.521	1.688	1.395	1.511	1.562	8.23
12) T 1,1,2-Trichlor...			1.415	1.225	1.343	1.103	1.187	1.255	9.92
13) Ethanol			0.134	0.112	0.096	0.068	0.073	0.097	28.56
14) T Bromoethene			0.452	0.462	0.501	0.409	0.463	0.457	7.25
15) T Acetone			2.017	1.709	1.813	1.209	1.312	1.612	21.17
16) T 1,3-Butadiene			0.798	0.693	0.766	0.643	0.693	0.719	8.70
17) tert-Butyl alc...			1.572	1.527	1.496	1.373	1.416	1.477	5.50
18) T 1,1-Dichloroet...			0.611	0.542	0.570	0.492	0.534	0.550	8.03
19) T Isopropyl Alcohol			1.014	0.840	0.895	0.778	0.813	0.868	10.61
20) T Methylene Chlo...			0.769	0.577	0.549	0.428	0.458	0.556	24.10
21) T Allyl Chloride			1.058	1.094	1.092	0.986	1.060	1.058	4.14
22) T trans-1,2-Dich...			0.698	0.650	0.705	0.563	0.600	0.643	9.58
23) T Vinyl Acetate			1.807	1.527	1.661	1.614	1.756	1.673	6.67
24) T 1,1-Dichloroet...			1.307	1.249	1.327	1.136	1.204	1.244	6.25
25) T Ethyl Acetate			2.551	2.551	2.980	2.855	3.091	2.806	8.80
26) T Hexane			0.953	1.089	1.147	1.209	1.361	1.152	13.06
27) T Carbon Disulfide			1.535	1.456	1.535	1.408	1.501	1.487	3.69
28) T Methyl tert-Bu...			0.689	0.618	0.650	0.604	0.639	0.640	5.14
29) T Chloroform			2.560	2.452	2.506	2.131	2.296	2.389	7.31
30) T Cyclohexane			0.837	0.801	0.916	1.020	1.155	0.946	15.25
31) T cis-1,2-Dichlo...			1.330	1.207	1.271	1.273	1.423	1.301	6.22
32) T 1,1,1-Trichlor...	2.897	2.559	2.385	2.301	2.450	2.249	2.414	2.465	8.74
-----ISTD-----									
33) I 1,4-Difluorobenzene									
34) T 2-Butanone			0.686	0.645	0.663	0.598	0.704	0.659	6.20
35) T Carbon Tetrach...	1.001	0.919	0.884	0.868	0.913	0.805	0.902	0.899	6.59
36) T Benzene			0.874	0.846	0.881	0.844	0.987	0.886	6.61
37) T 1,2-Dichloroet...			0.649	0.640	0.665	0.569	0.638	0.632	5.82
38) T Trichloroethene	0.461	0.397	0.333	0.352	0.384	0.360	0.410	0.385	11.04
39) T 1,2-Dichloropr...			0.346	0.331	0.317	0.308	0.349	0.330	5.37

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\ Method File : VL051225AIR.M										
40)	T	1,4-Dioxane		0.138	0.122	0.124	0.135	0.151	0.134	8.61
41)	T	Tetrahydrofuran		0.218	0.254	0.285	0.308	0.361	0.285	18.98
42)	T	Bromodichlorom...		0.864	0.816	0.872	0.782	0.883	0.844	5.09
43)		Methyl Methacr...		0.240	0.260	0.284	0.322	0.378	0.297	18.37
44)	T	2,2,4-Trimethy...		1.204	1.331	1.439	1.425	1.622	1.404	10.96
45)	T	t-1,3-Dichloro...		0.328	0.342	0.338	0.403	0.485	0.379	17.41
46)	T	cis-1,3-Dichlo...		0.397	0.403	0.417	0.486	0.577	0.456	16.69
47)	T	1,1,2-Trichlor...		0.435	0.372	0.392	0.351	0.394	0.389	8.04
48)	T	Dibromochlorom...		0.608	0.631	0.668	0.618	0.720	0.649	7.05
49)	T	Bromoform		0.490	0.503	0.547	0.522	0.601	0.533	8.24
50)	T	4-Methyl-2-Pen...		0.621	0.694	0.771	0.826	0.960	0.774	16.72
51)	T	2-Hexanone		0.408	0.468	0.550	0.662	0.791	0.576	26.67
52)	T	Tetrachloroethene	0.297 0.445	0.326	0.317	0.318	0.314	0.356	0.339	14.73
53)	T	Toluene		0.720	0.731	0.819	0.953	1.126	0.870	19.65
54)	T	1,2-Dibromoethane	0.593	0.555	0.542	0.556	0.534	0.626	0.568	6.18
-----ISTD-----										
55)	I	Chlorobenzene-d5								
56)		1,1,1,2-Tetrac...		0.661	0.626	0.657	0.552	0.603	0.620	7.20
57)	T	Chlorobenzene		1.046	0.977	1.078	0.911	1.008	1.004	6.40
58)	T	Ethyl Benzene		1.046	1.084	1.318	1.563	1.804	1.363	23.62
59)	T	m/p-Xylene		0.867	1.028	1.325	1.342	1.491	1.211	21.06
60)	T	o-Xylene		0.805	1.009	1.292	1.331	1.473	1.182	22.81
61)	T	Styrene		0.298	0.348	0.392	0.509	0.642	0.438	31.60
62)		Isopropylbenzene		1.347	1.561	1.911	1.933	2.150	1.780	18.03
63)	T	1,1,2,2-Tetrac...	1.170 0.996	0.949	0.881	0.993	0.821	0.907	0.959	11.64
64)		n-propylbenzene		0.309	0.392	0.503	0.507	0.549	0.452	21.79
65)		tert-Butylbenzene		1.125	1.436	1.862	1.779	1.971	1.635	21.30
66)	T	Benzyl Chloride		0.201	0.182	0.226	0.223	0.254	0.217	12.67
67)		sec-Butylbenzene		1.723	2.130	2.714	2.481	2.671	2.344	17.77
68)	S	1-Bromo-4-Fluo...	0.851 0.839	0.883	0.873	0.891	0.873	0.882	0.870	2.13
69)		p-Isopropyltol...		1.223	1.670	2.247	2.151	2.344	1.927	24.45
70)		n-Butylbenzene		1.243	1.575	2.244	2.136	2.323	1.904	24.76
71)		2-Chlorotoluene		1.090	1.131	1.356	1.489	1.675	1.348	18.20
72)	T	4-Ethyltoluene		0.997	1.242	1.585	1.655	1.853	1.466	23.37
73)	T	1,3,5-Trimethy...		0.874	1.107	1.432	1.415	1.558	1.277	21.90
74)	T	1,2,4-Trimethy...		1.064	1.525	1.919	1.621	1.728	1.572	20.31
75)	T	1,3-Dichlorobe...		0.867	0.979	1.093	0.953	1.030	0.984	8.61
76)	T	1,4-Dichlorobe...		0.778	0.886	1.064	0.930	1.023	0.936	12.10
77)	T	1,2-Dichlorobe...		0.996	1.015	1.178	0.913	0.983	1.017	9.63
78)	T	Hexachloro-1,3...		0.936	0.896	0.984	0.733	0.809	0.872	11.54
79)	T	Naphthalene	0.504	0.660	0.918	1.391	1.374	1.688	1.089	42.79
80)	T	Naphthalene,2-...		0.237	0.342	0.581	0.776	1.207	0.629	61.32
81)	T	1,2,4-Trichlor...		0.407	0.549	0.751	0.726	0.879	0.662	27.92

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051225\
 Data File : VL042525.D
 Acq On : 12 May 2025 08:57
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025

Quant Time: May 12 23:45:09 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M

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

QLast Update : Mon May 12 23:42:45 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.777	49	115823	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.946	114	341715	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.869	117	299786	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.364 95 261594 10.029 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.492	85	169160	8.994	ppbv	100
3) Chlorodifluoromethane	1.470	51	178822	9.329	ppbv	100
4) Chloromethane	1.528	50	67750	8.826	ppbv	100
5) Vinyl Chloride	1.573	62	64115	8.163	ppbv	100
6) Bromomethane	1.661	94	33766	9.053	ppbv	100
7) Chloroethane	1.700	64	25777	8.338	ppbv	100
8) Dichlorotetrafluoroethane	1.548	85	142870	8.828	ppbv	100
9) Propene	1.476	41	10300	2.474	ppbv #	1
10) Heptane	4.959	43	171443	10.802	ppbv	100
11) Trichlorofluoromethane	1.871	101	161561	8.930	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.130	101	127743	8.791	ppbv	100
13) Ethanol	1.716	45	7854	6.912	ppbv	100
14) Bromoethene	1.774	108	47318	8.932	ppbv	100
15) Acetone	1.829	43	140078	7.569	ppbv	100
16) 1,3-Butadiene	1.603	39	74449	8.946	ppbv	100
17) tert-Butyl alcohol	2.033	59	159013	9.298	ppbv	100
18) 1,1-Dichloroethene	2.027	96	57005	8.952	ppbv	100
19) Isopropyl Alcohol	1.881	45	90090	8.961	ppbv #	1
20) Methylene Chloride	2.052	84	49582	7.693	ppbv	100
21) Allyl Chloride	2.088	41	114157	9.316	ppbv	100
22) trans-1,2-Dichloroethene	2.331	96	65183	8.750	ppbv	100
23) Vinyl Acetate	2.454	43	186900	9.646	ppbv	100
24) 1,1-Dichloroethane	2.399	63	131534	9.126	ppbv	100
25) Ethyl Acetate	2.826	43	330659	10.175	ppbv	100
26) Hexane	2.816	57	140065	10.498	ppbv	100
27) Carbon Disulfide	2.143	76	163053	9.467	ppbv	99
28) Methyl tert-Butyl Ether	2.431	73	69971	9.440	ppbv	100
29) Chloroform	2.839	83	246790	8.919	ppbv	100
30) Cyclohexane	3.842	84	118162	10.787	ppbv	100
31) cis-1,2-Dichloroethene	2.709	61	147467	9.788	ppbv	100
32) 1,1,1-Trichloroethane	3.357	97	260477	9.331	ppbv	100
34) 2-Butanone	2.548	43	204394	9.075	ppbv	100
35) Carbon Tetrachloride	3.748	117	275147	8.956	ppbv	100
36) Benzene	3.642	78	288357	9.522	ppbv	100
37) 1,2-Dichloroethane	3.208	62	194477	9.003	ppbv	100
38) Trichloroethene	4.528	130	123174	9.520	ppbv	100
39) 1,2-Dichloropropane	4.299	63	105313	9.342	ppbv	100
40) 1,4-Dioxane	4.564	88	46049	10.246	ppbv #	96
41) Tetrahydrofuran	3.046	42	105158	10.824	ppbv	100
42) Bromodichloromethane	4.473	83	267225	9.286	ppbv	100
43) Methyl Methacrylate	4.862	69	110028	10.879	ppbv	100
44) 2,2,4-Trimethylpentane	4.622	57	486999	10.240	ppbv	100
45) t-1,3-Dichloropropene	6.393	75	137698	10.664	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051225\
 Data File : VL042525.D
 Acq On : 12 May 2025 08:57
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025

Quant Time: May 12 23:45:09 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M

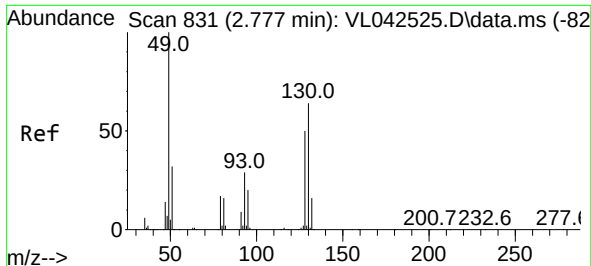
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Mon May 12 23:42:45 2025

Response via : Initial Calibration

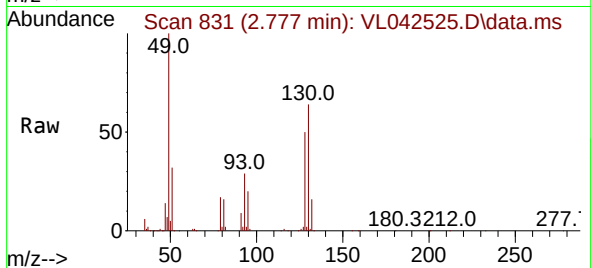
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.580	75	166227	10.673	ppbv	100
47) 1,1,2-Trichloroethane	6.561	97	119791	9.025	ppbv	100
48) Dibromochloromethane	7.373	129	211079	9.517	ppbv	100
49) Bromoform	9.474	173	178401	9.802	ppbv	100
50) 4-Methyl-2-Pentanone	5.736	43	282238m	10.684	ppbv	
51) 2-Hexanone	7.419	43	226227	11.522	ppbv	100
52) Tetrachloroethene	8.212	164	107438	9.209	ppbv	100
53) Toluene	6.914	91	325568	10.955	ppbv	100
54) 1,2-Dibromoethane	7.636	107	182336	9.400	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.914	131	165589	8.909	ppbv	99
57) Chlorobenzene	8.911	112	273225	9.077	ppbv	100
58) Ethyl Benzene	9.345	91	468520	11.466	ppbv	100
59) m/p-Xylene	9.539	91	804567m	22.134	ppbv	
60) o-Xylene	9.953	91	399046	11.266	ppbv	100
61) Styrene	9.859	104	152478	11.686	ppbv	100
62) Isopropylbenzene	10.529	105	579443	10.856	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.953	83	246197	8.666	ppbv	100
64) n-propylbenzene	10.979	120	151897	11.231	ppbv	100
65) tert-Butylbenzene	11.523	119	533457	10.884	ppbv	100
66) Benzyl Chloride	11.607	91	66999	10.331	ppbv	100
67) sec-Butylbenzene	11.759	105	743905	10.586	ppbv	100
69) p-Isopropyltoluene	11.918	119	644903	11.163	ppbv	100
70) n-Butylbenzene	12.274	91	640472	11.219	ppbv	100
71) 2-Chlorotoluene	10.892	91	446467	11.047	ppbv	100
72) 4-Ethyltoluene	11.118	105	496120	11.285	ppbv	100
73) 1,3,5-Trimethylbenzene	11.196	105	424133	11.076	ppbv	100
74) 1,2,4-Trimethylbenzene	11.529	105	485862	10.313	ppbv	100
75) 1,3-Dichlorobenzene	11.601	146	285664	9.681	ppbv	100
76) 1,4-Dichlorobenzene	11.662	146	278935	9.936	ppbv	100
77) 1,2-Dichlorobenzene	11.940	146	273570	8.976	ppbv	100
78) Hexachloro-1,3-Butadiene	13.876	225	219741	8.408	ppbv	100
79) Naphthalene	13.507	128	411831	12.661	ppbv	100
80) Naphthalene,2-methyl-	14.452	142	232576	12.289	ppbv	100
81) 1,2,4-Trichlorobenzene	13.432	180	217565	10.955	ppbv	100

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.777 min Scan# 831
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

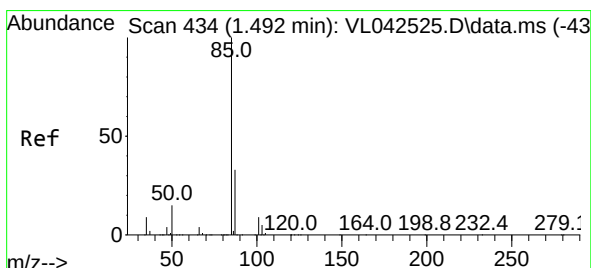
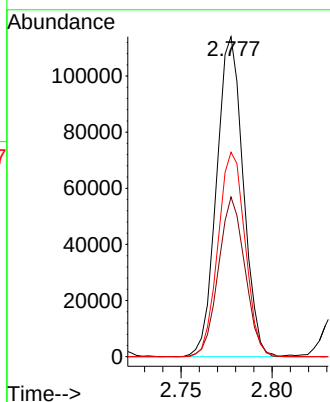
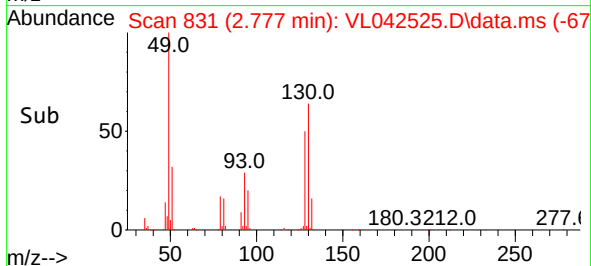
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 49 Resp: 115823
Ion Ratio Lower Upper
49 100
128 49.7 24.9 74.6
130 65.0 32.5 97.5

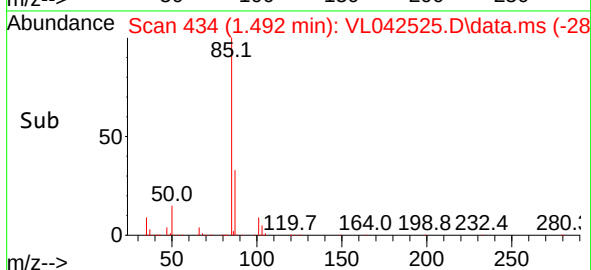
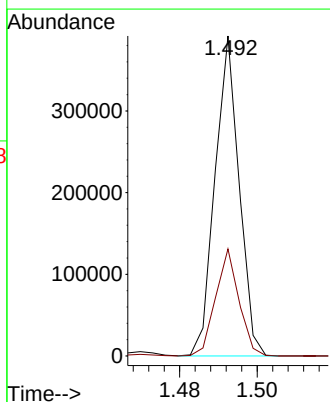
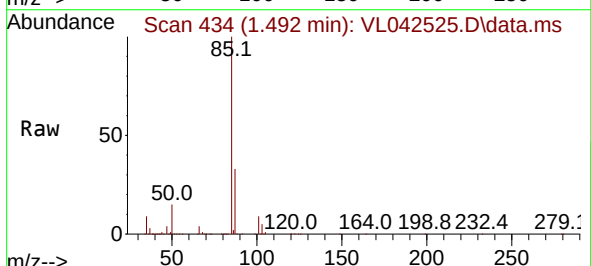
Manual Integrations
APPROVED

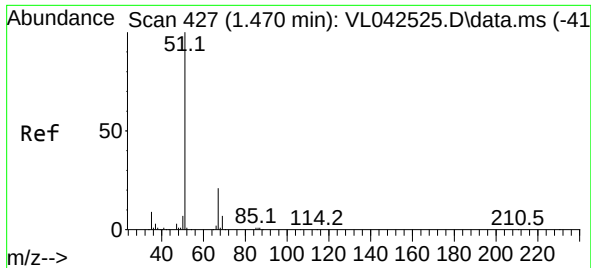
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#2
Dichlorodifluoromethane
Concen: 8.994 ppbv
RT: 1.492 min Scan# 434
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

Tgt Ion: 85 Resp: 169160
Ion Ratio Lower Upper
85 100
87 33.5 26.8 40.2





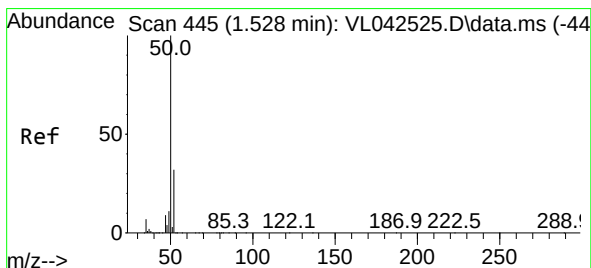
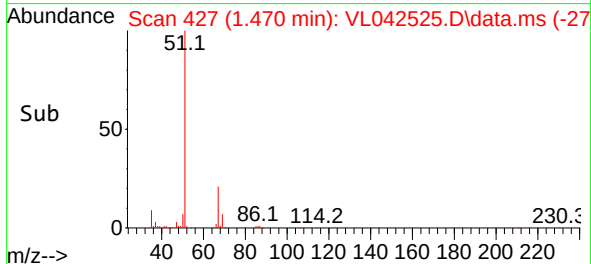
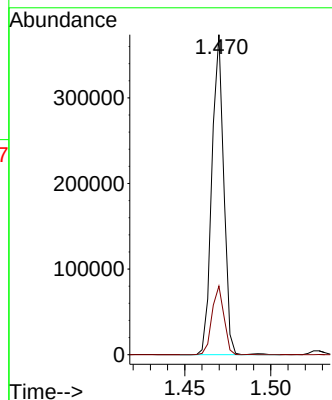
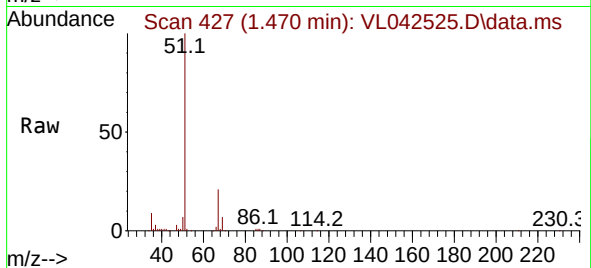
#3
Chlorodifluoromethane
Concen: 9.329 ppbv
RT: 1.470 min Scan# 427
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 51 Resp: 17882
Ion Ratio Lower Upper
51 100
67 21.7 17.4 26.0

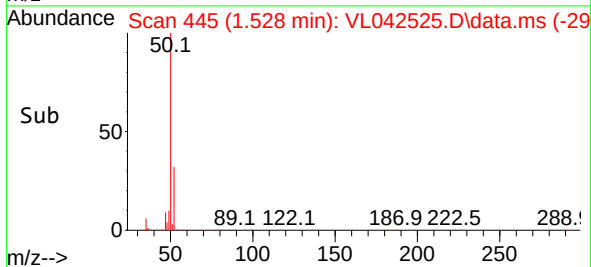
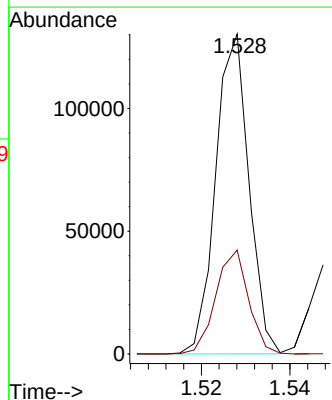
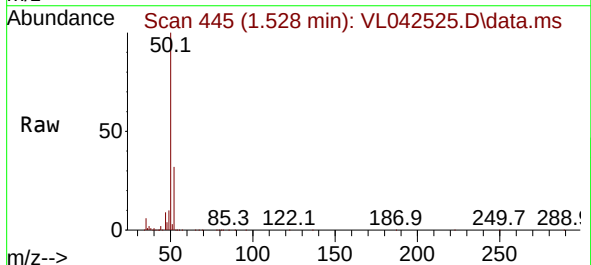
Manual Integrations
APPROVED

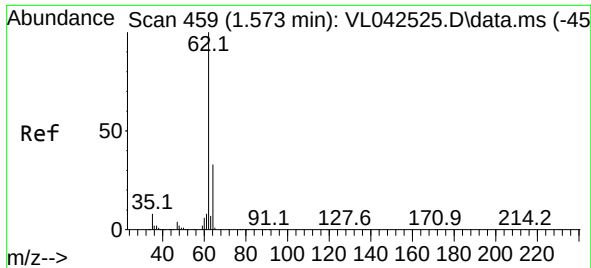
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#4
Chloromethane
Concen: 8.826 ppbv
RT: 1.528 min Scan# 445
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

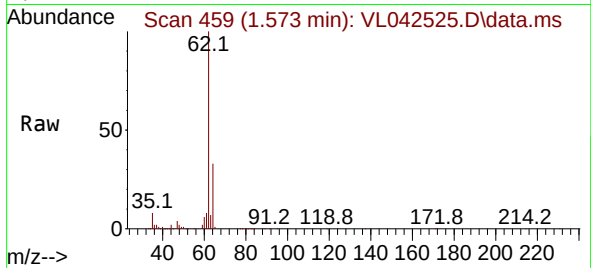
Tgt Ion: 50 Resp: 67750
Ion Ratio Lower Upper
50 100
52 32.4 25.9 38.9





#5
 Vinyl Chloride
 Concen: 8.163 ppbv
 RT: 1.573 min Scan# 459
 Delta R.T. 0.000 min
 Lab File: VL042525.D
 Acq: 12 May 2025 08:57

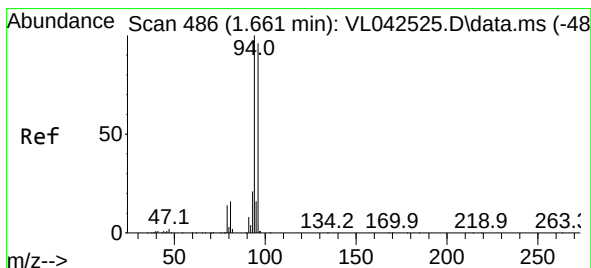
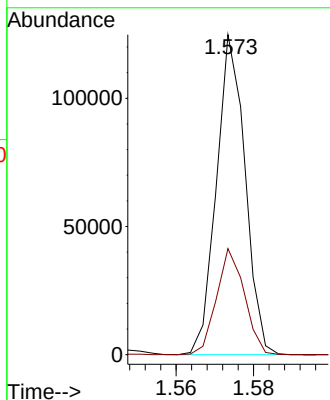
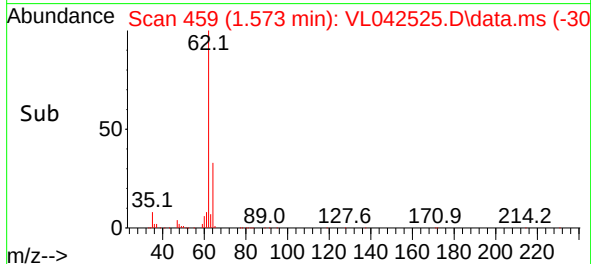
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



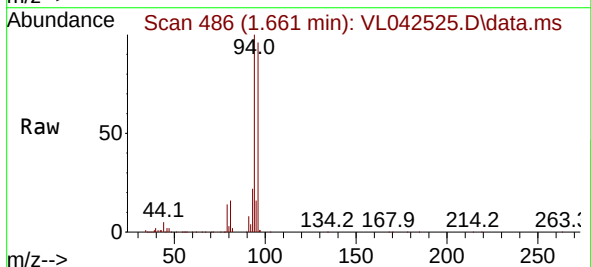
Tgt Ion: 62 Resp: 64115
 Ion Ratio Lower Upper
 62 100
 64 33.1 26.5 39.7

Manual Integrations
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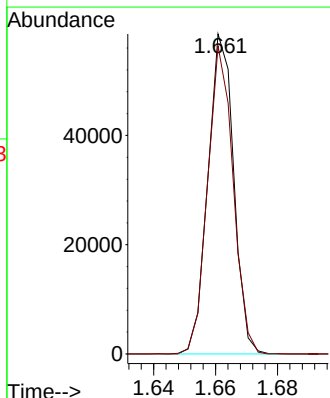
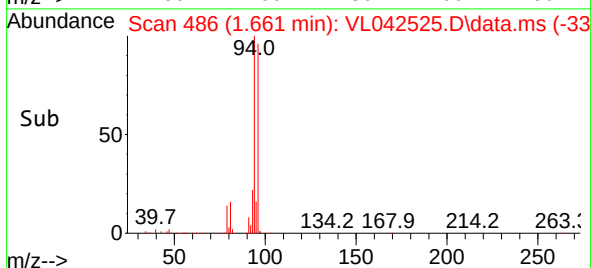
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025

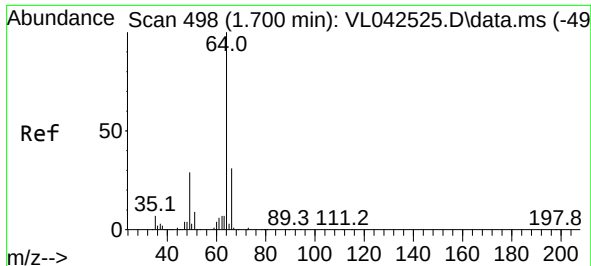


#6
 Bromomethane
 Concen: 9.053 ppbv
 RT: 1.661 min Scan# 486
 Delta R.T. 0.000 min
 Lab File: VL042525.D
 Acq: 12 May 2025 08:57



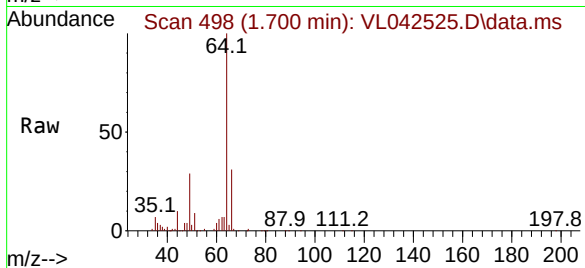
Tgt Ion: 94 Resp: 33766
 Ion Ratio Lower Upper
 94 100
 96 96.1 76.9 115.3





#7
Chloroethane
Concen: 8.338 ppbv
RT: 1.700 min Scan# 498
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

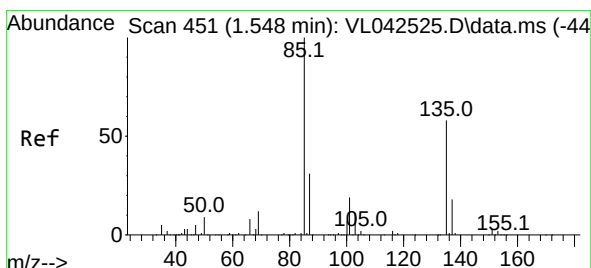
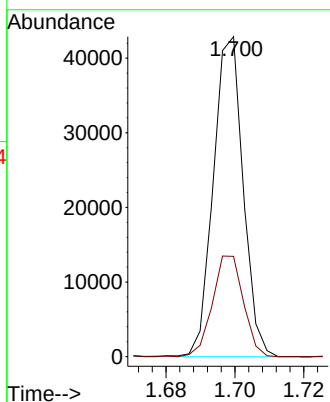
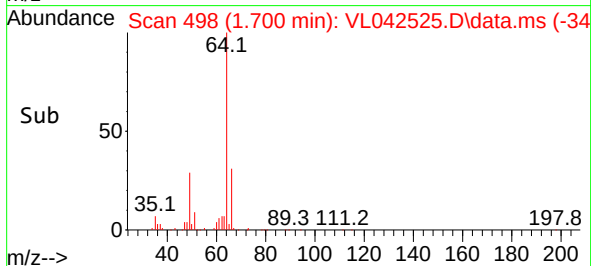
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



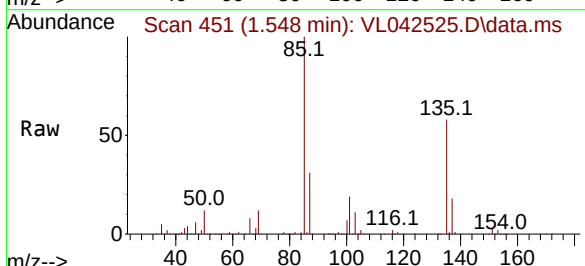
Tgt Ion: 64 Resp: 2577
Ion Ratio Lower Upper
64 100
66 31.4 25.1 37.7

Manual Integrations
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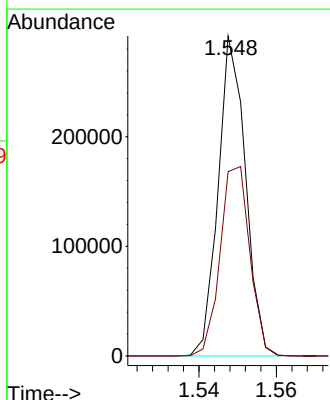
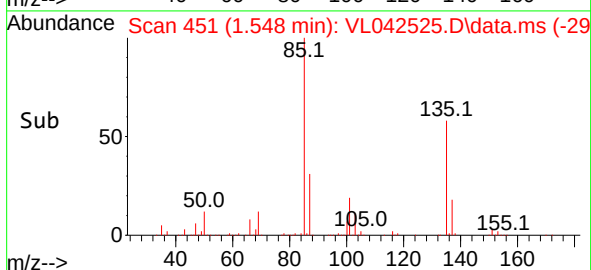
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

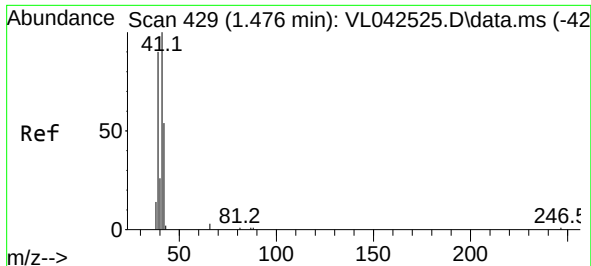


#8
Dichlorotetrafluoroethane
Concen: 8.828 ppbv
RT: 1.548 min Scan# 451
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57



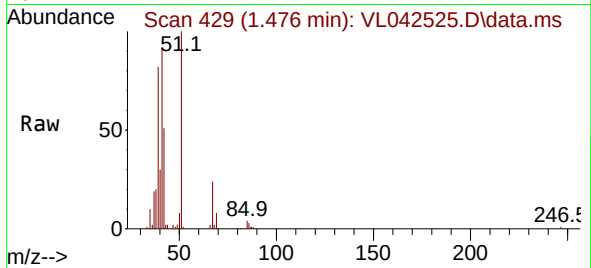
Tgt Ion: 85 Resp: 142870
Ion Ratio Lower Upper
85 100
135 64.8 51.8 77.8





#9
 Propene
 Concen: 2.474 ppbv
 RT: 1.476 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL042525.D
 Acq: 12 May 2025 08:57

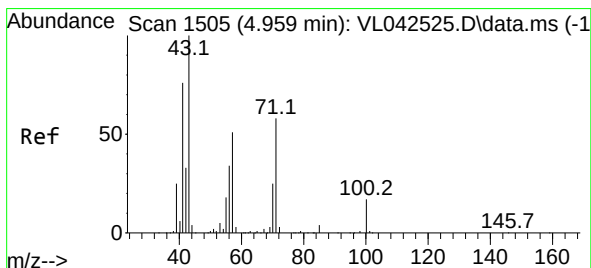
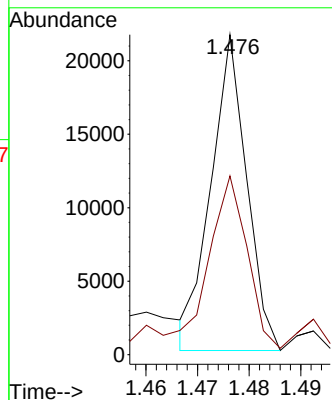
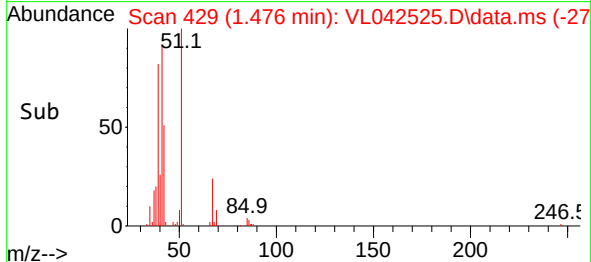
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



Tgt Ion: 41 Resp: 10300
 Ion Ratio Lower Upper
 41 100
 42 81.7 4.1 6.1

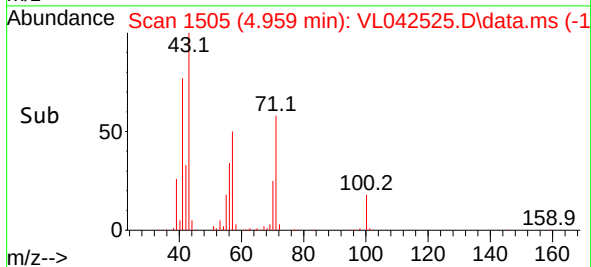
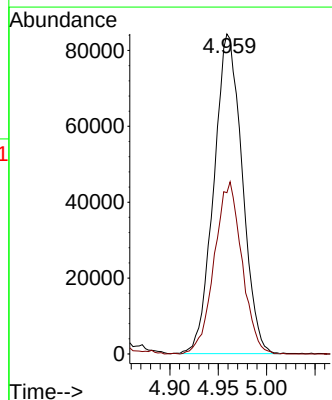
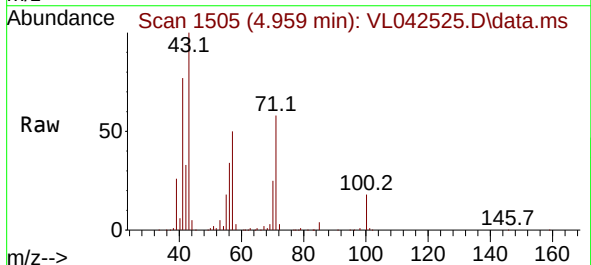
Manual Integrations
 APPROVED

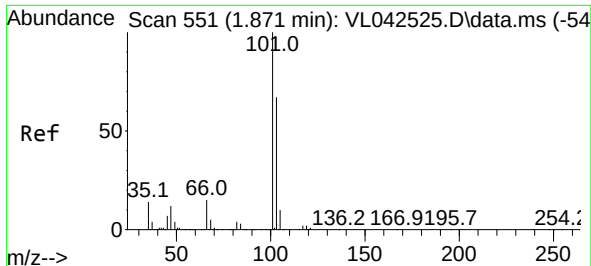
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025



#10
 Heptane
 Concen: 10.802 ppbv
 RT: 4.959 min Scan# 1505
 Delta R.T. 0.000 min
 Lab File: VL042525.D
 Acq: 12 May 2025 08:57

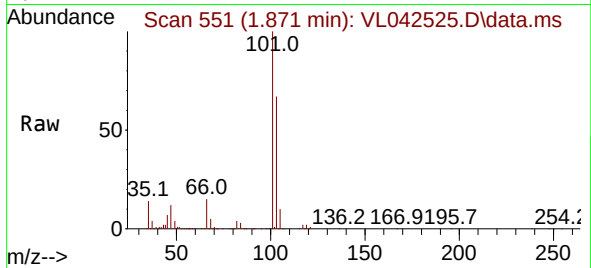
Tgt Ion: 43 Resp: 171443
 Ion Ratio Lower Upper
 43 100
 57 52.6 42.1 63.1





#11
 Trichlorofluoromethane
 Concen: 8.930 ppbv
 RT: 1.871 min Scan# 551
 Delta R.T. 0.000 min
 Lab File: VL042525.D
 Acq: 12 May 2025 08:57

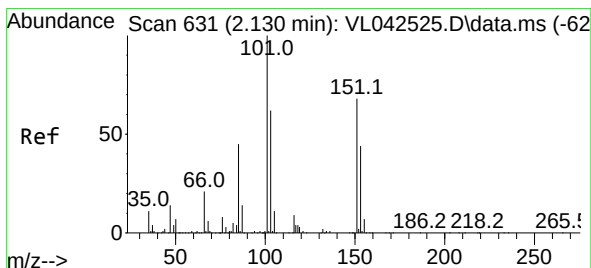
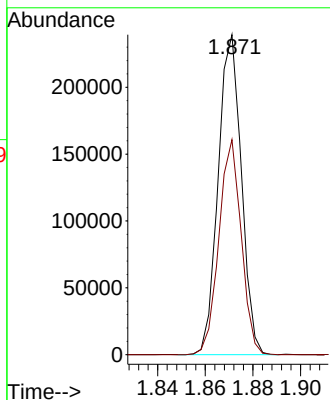
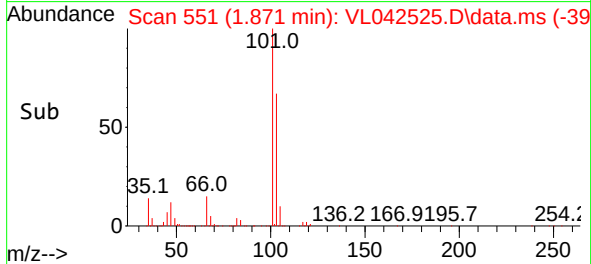
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



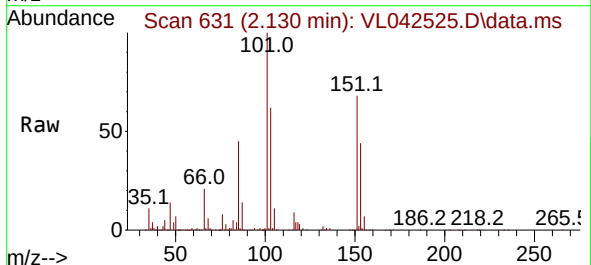
Tgt Ion:101 Resp: 16156
 Ion Ratio Lower Upper
 101 100
 103 67.2 53.8 80.6

Manual Integrations
 APPROVED

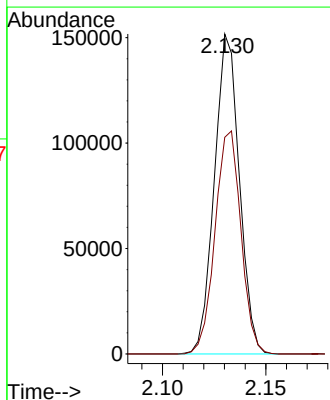
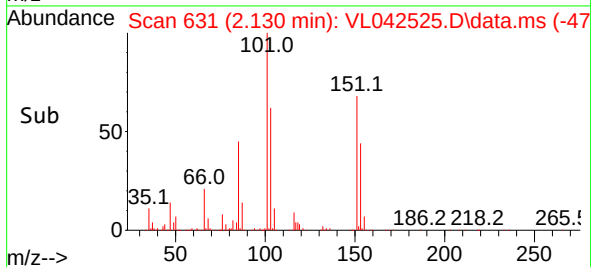
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025

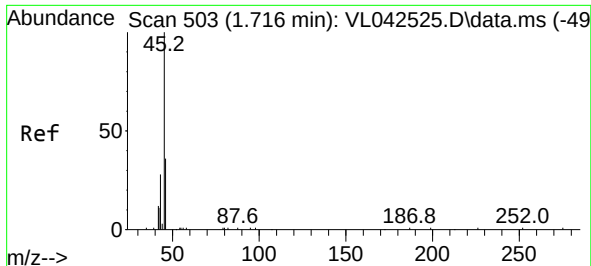


#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 8.791 ppbv
 RT: 2.130 min Scan# 631
 Delta R.T. 0.000 min
 Lab File: VL042525.D
 Acq: 12 May 2025 08:57



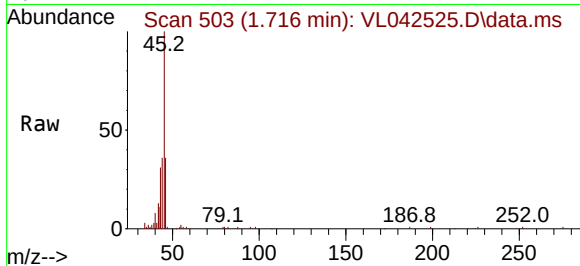
Tgt Ion:101 Resp: 127743
 Ion Ratio Lower Upper
 101 100
 151 72.3 57.8 86.8





#13
Ethanol
Concen: 6.912 ppbv
RT: 1.716 min Scan# 503
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

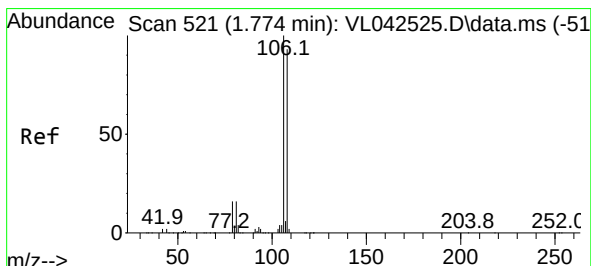
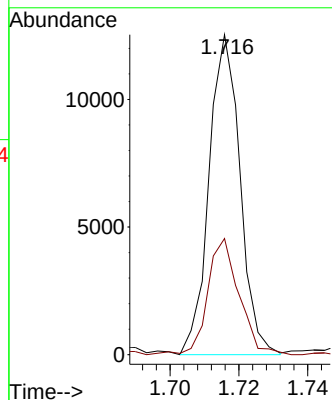
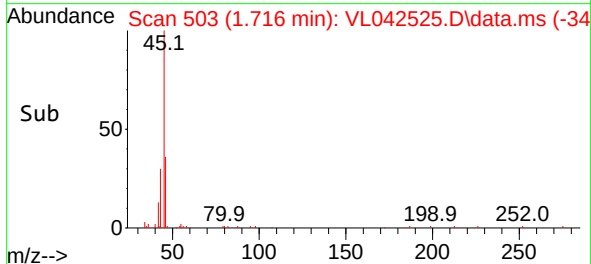
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



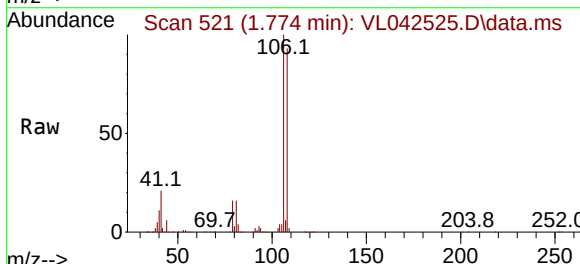
Tgt Ion: 45 Resp: 7854
Ion Ratio Lower Upper
45 100
46 37.1 14.8 59.4

Manual Integrations
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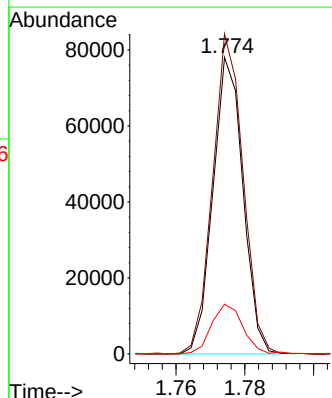
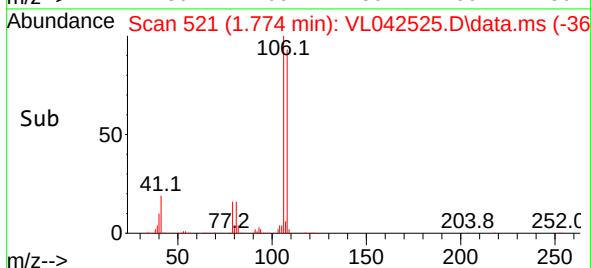
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

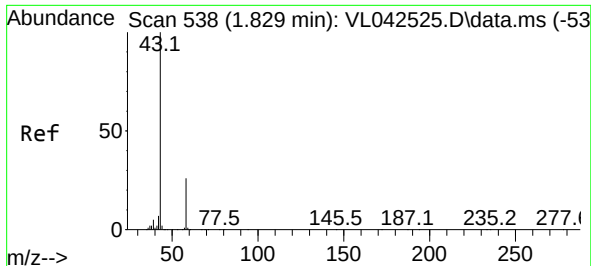


#14
Bromoethene
Concen: 8.932 ppbv
RT: 1.774 min Scan# 521
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57



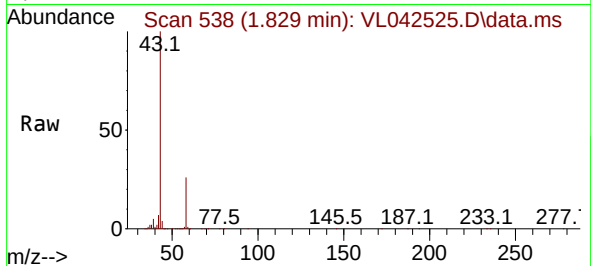
Tgt Ion:108 Resp: 47318
Ion Ratio Lower Upper
108 100
106 109.3 87.4 131.2
79 17.5 15.1 22.7





#15
Acetone
Concen: 7.569 ppbv
RT: 1.829 min Scan# 538
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

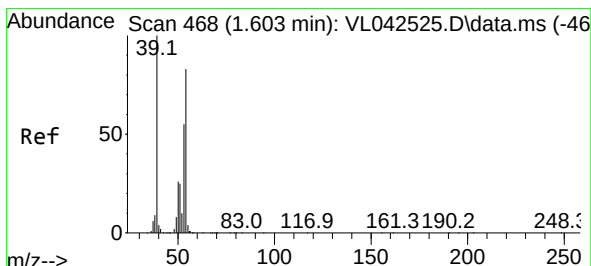
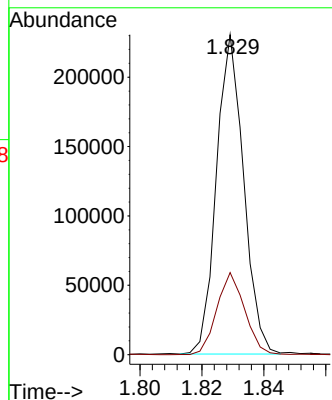
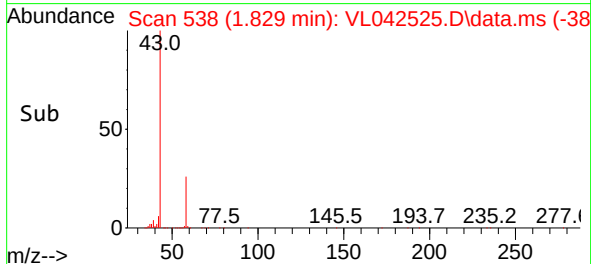
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ClientSampleId :
VSTDICCC010



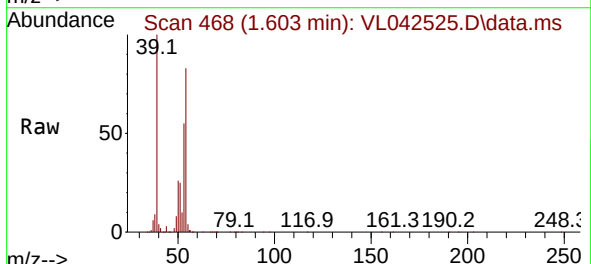
Tgt Ion: 43 Resp: 140078
Ion Ratio Lower Upper
43 100
58 26.6 21.3 31.9

Manual Integrations
APPROVED

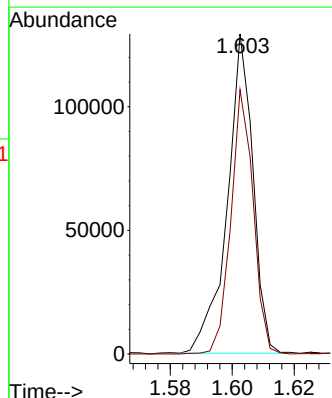
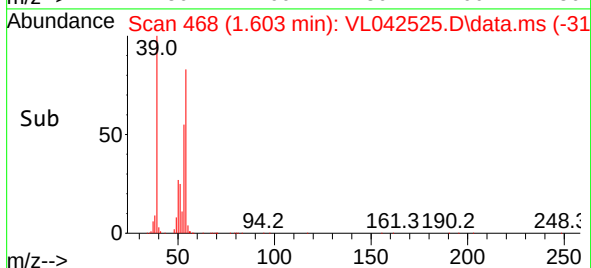
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

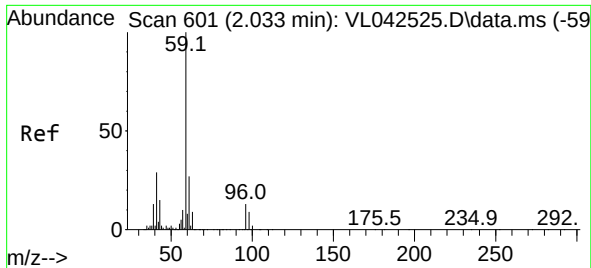


#16
1,3-Butadiene
Concen: 8.946 ppbv
RT: 1.603 min Scan# 468
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57



Tgt Ion: 39 Resp: 74449
Ion Ratio Lower Upper
39 100
54 72.1 57.8 86.6





#17

tert-Butyl alcohol

Concen: 9.298 ppbv

RT: 2.033 min Scan# 601

Delta R.T. 0.000 min

Lab File: VL042525.D

Acq: 12 May 2025 08:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 59 Resp: 15901

Ion Ratio Lower Upper

59 100

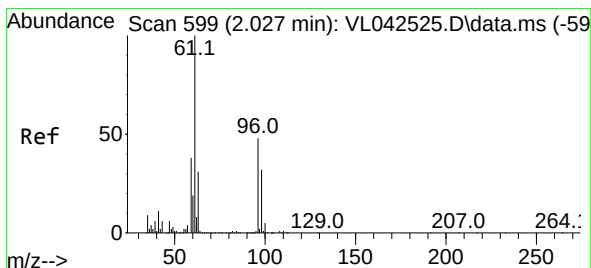
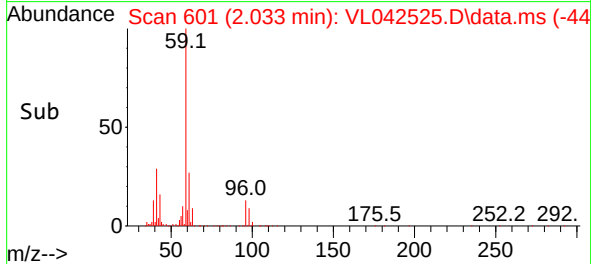
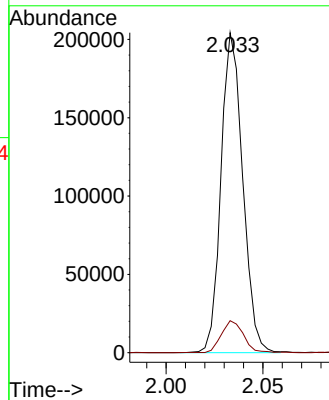
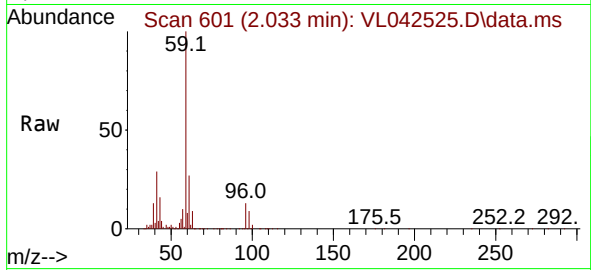
57 10.3 8.2 12.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025

Supervised By :Mahesh Dadoda 05/14/2025



#18

1,1-Dichloroethene

Concen: 8.952 ppbv

RT: 2.027 min Scan# 599

Delta R.T. 0.000 min

Lab File: VL042525.D

Acq: 12 May 2025 08:57

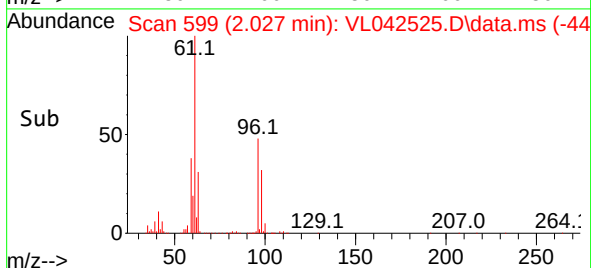
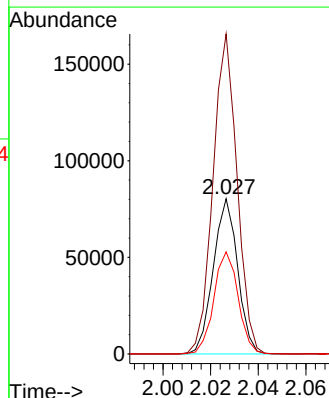
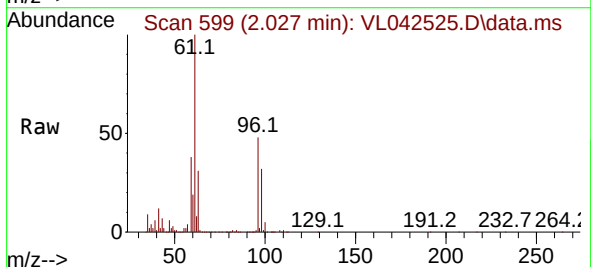
Tgt Ion: 96 Resp: 57005

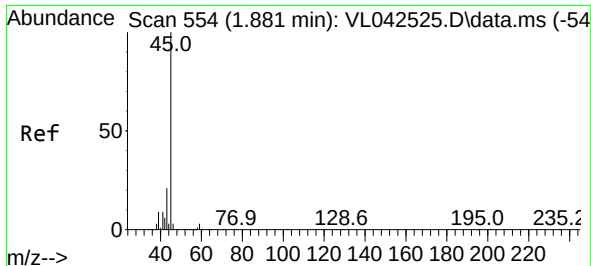
Ion Ratio Lower Upper

96 100

61 206.2 165.0 247.4

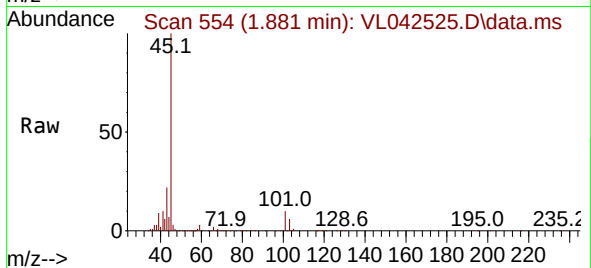
98 65.8 52.6 79.0





#19
Isopropyl Alcohol
Concen: 8.961 ppbv
RT: 1.881 min Scan# 554
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

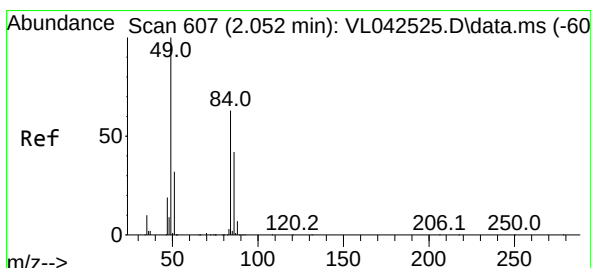
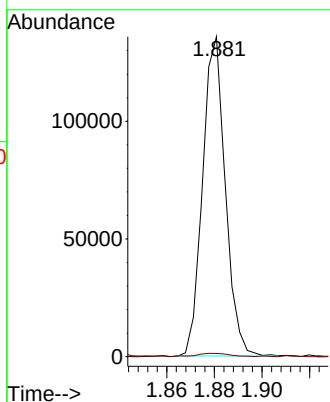
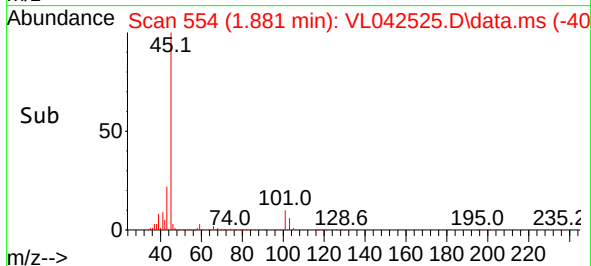
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



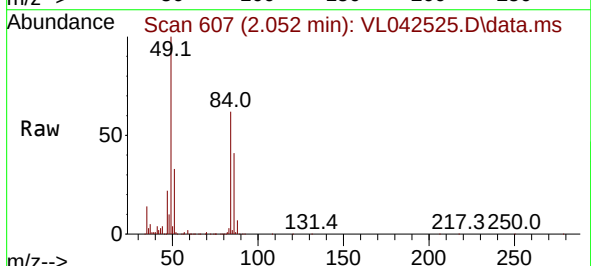
Tgt Ion: 45 Resp: 90090
Ion Ratio Lower Upper
45 100
58 41.4 1.5 2.3

Manual Integrations
APPROVED

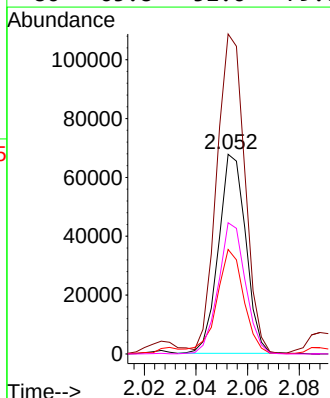
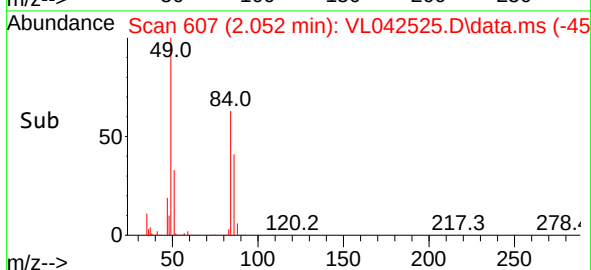
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

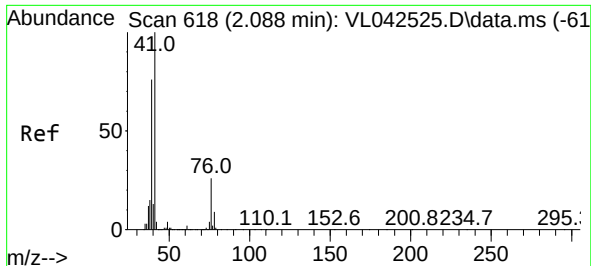


#20
Methylene Chloride
Concen: 7.693 ppbv
RT: 2.052 min Scan# 607
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57



Tgt Ion: 84 Resp: 49582
Ion Ratio Lower Upper
84 100
49 160.3 128.2 192.4
51 52.1 41.7 62.5
86 65.8 52.6 79.0





#21

Allyl Chloride

Concen: 9.316 ppbv

RT: 2.088 min Scan# 618

Delta R.T. 0.000 min

Lab File: VL042525.D

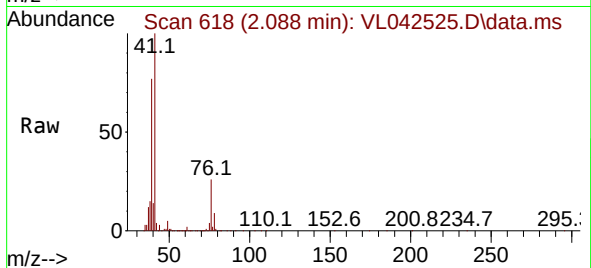
Acq: 12 May 2025 08:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

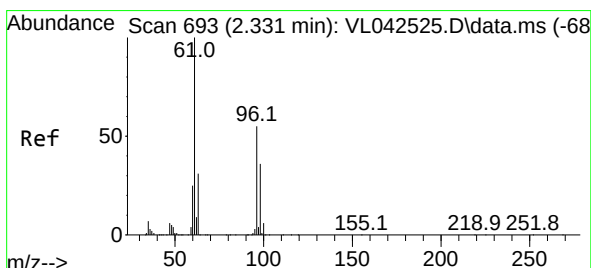
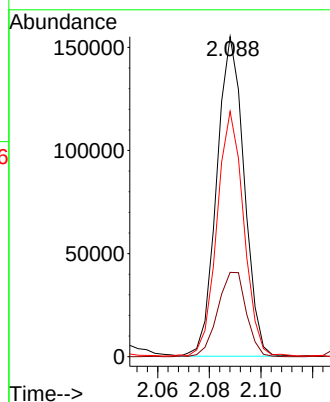
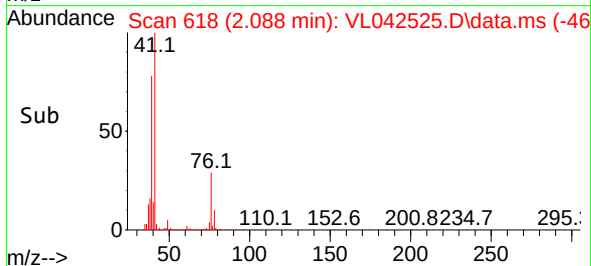


Tgt Ion:	41	Resp:	11415
Ion Ratio	100	Lower	Upper
41	100		
76	27.5	22.0	33.0
39	74.4	59.5	89.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#22

trans-1,2-Dichloroethene

Concen: 8.750 ppbv

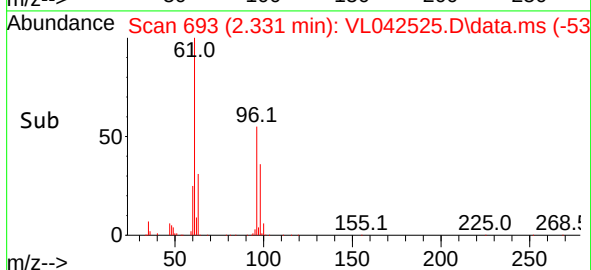
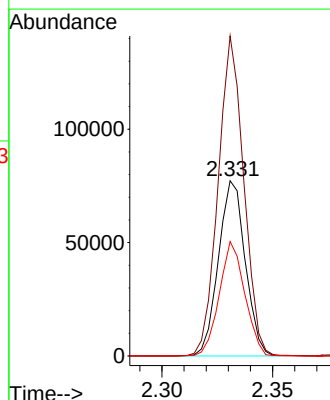
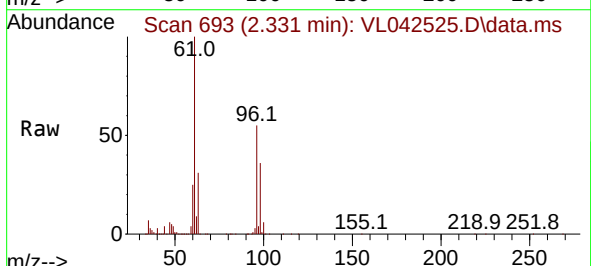
RT: 2.331 min Scan# 693

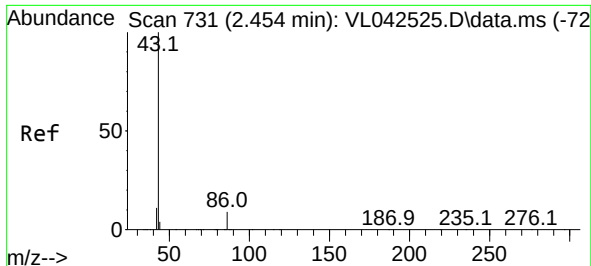
Delta R.T. 0.000 min

Lab File: VL042525.D

Acq: 12 May 2025 08:57

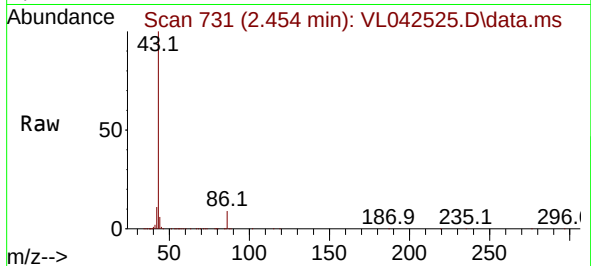
Tgt Ion:	96	Resp:	65183
Ion Ratio	100	Lower	Upper
96	100		
61	182.4	145.9	218.9
98	65.3	52.2	78.4





#23
 Vinyl Acetate
 Concen: 9.646 ppbv
 RT: 2.454 min Scan# 714
 Delta R.T. 0.000 min
 Lab File: VL042525.D
 Acq: 12 May 2025 08:57

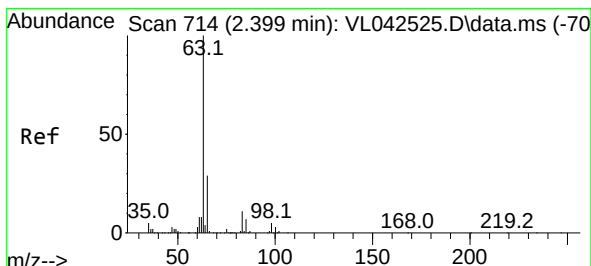
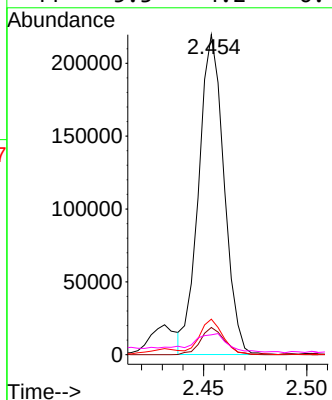
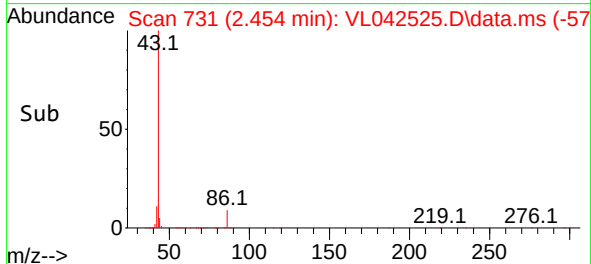
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010



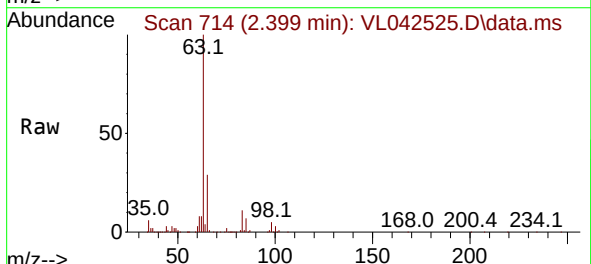
Tgt Ion: 43 Resp: 186900
 Ion Ratio Lower Upper
 43 100
 86 8.5 6.8 10.2
 42 11.0 8.8 13.2
 44 5.3 4.2 6.4

Manual Integrations
 APPROVED

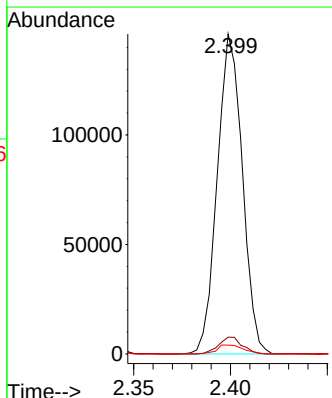
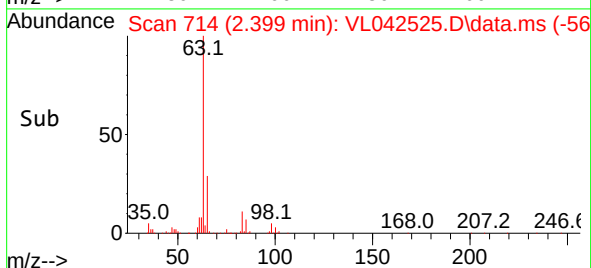
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025

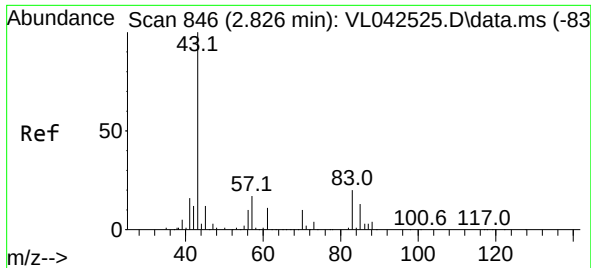


#24
 1,1-Dichloroethane
 Concen: 9.126 ppbv
 RT: 2.399 min Scan# 714
 Delta R.T. 0.000 min
 Lab File: VL042525.D
 Acq: 12 May 2025 08:57



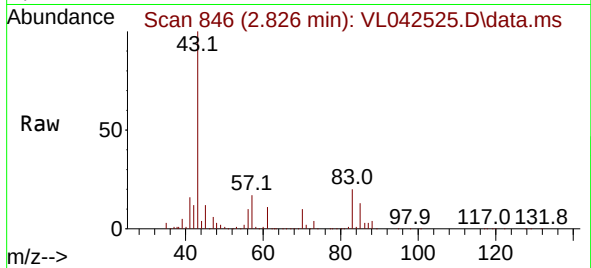
Tgt Ion: 63 Resp: 131534
 Ion Ratio Lower Upper
 63 100
 98 5.3 2.6 8.0
 100 2.8 1.4 4.2





#25
Ethyl Acetate
Concen: 10.175 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

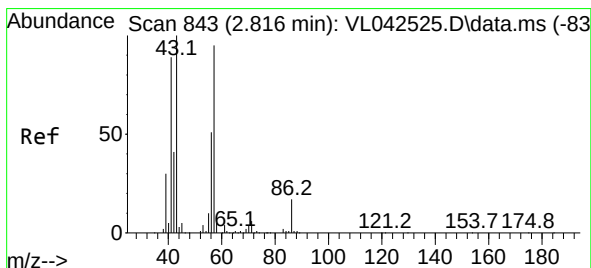
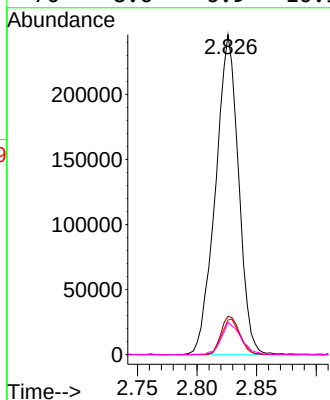
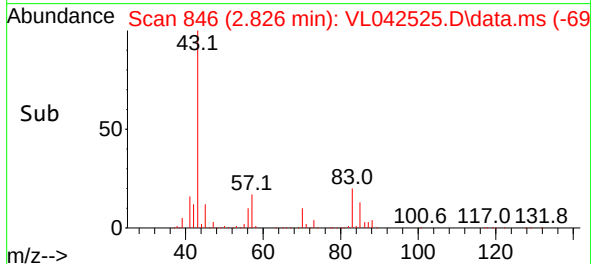
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 43 Resp: 330659
Ion Ratio Lower Upper
43 100
45 9.8 7.9 11.9
61 8.9 7.1 10.7
70 8.6 6.9 10.3

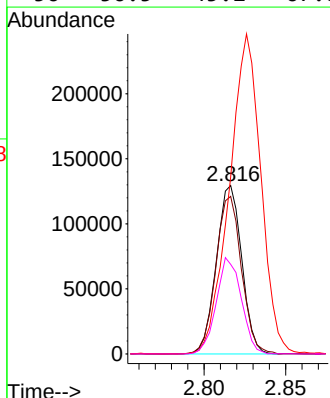
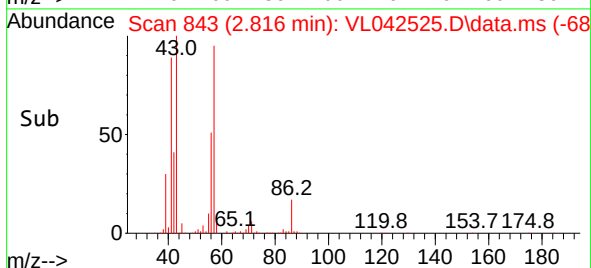
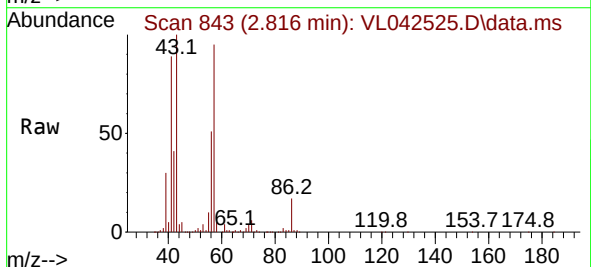
Manual Integrations
APPROVED

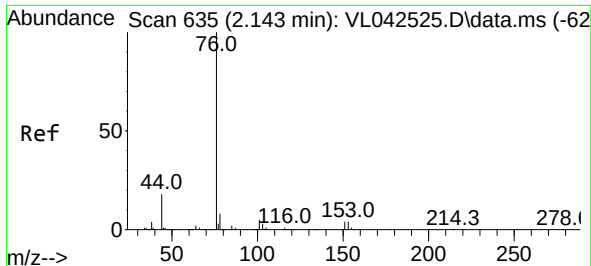
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#26
Hexane
Concen: 10.498 ppbv
RT: 2.816 min Scan# 843
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

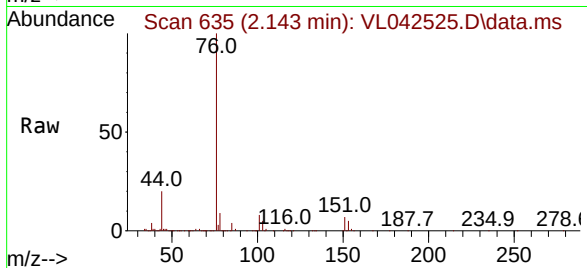
Tgt Ion: 57 Resp: 140065
Ion Ratio Lower Upper
57 100
41 95.1 76.1 114.1
43 236.5 188.9 283.3
56 56.5 45.2 67.8





#27
Carbon Disulfide
Concen: 9.467 ppbv
RT: 2.143 min Scan# 611
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

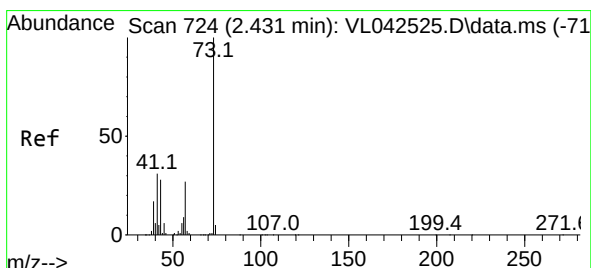
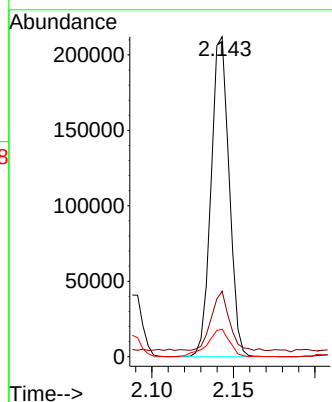
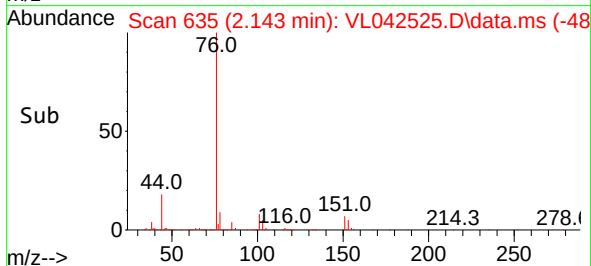
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



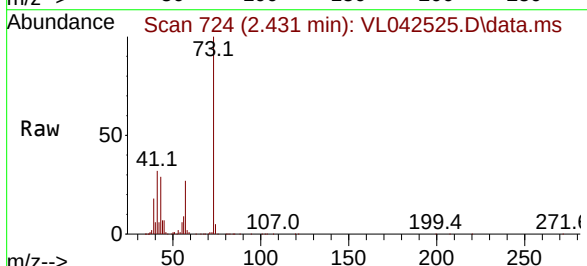
Tgt Ion: 76 Resp: 16305
Ion Ratio Lower Upper
76 100
44 21.0 17.1 25.7
78 10.7 8.6 12.8

Manual Integrations
APPROVED

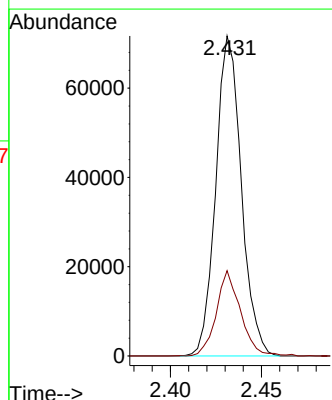
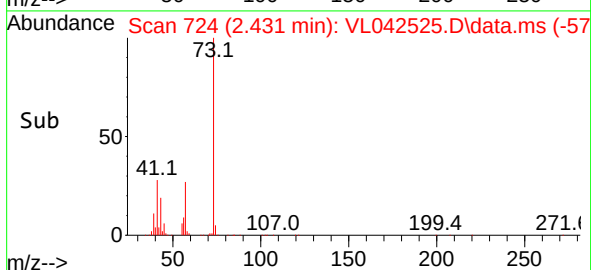
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

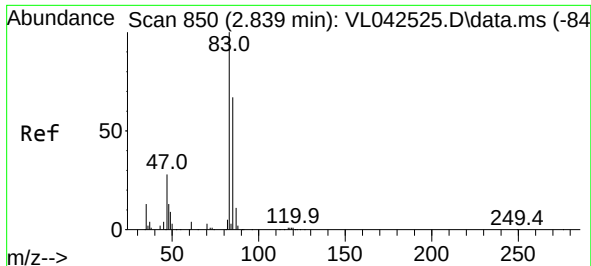


#28
Methyl tert-Butyl Ether
Concen: 9.440 ppbv
RT: 2.431 min Scan# 724
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57



Tgt Ion: 73 Resp: 69971
Ion Ratio Lower Upper
73 100
57 25.4 20.3 30.5





#29

Chloroform

Concen: 8.919 ppbv

RT: 2.839 min Scan# 850

Delta R.T. 0.000 min

Lab File: VL042525.D

Acq: 12 May 2025 08:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 83 Resp: 246790

Ion Ratio Lower Upper

83 100

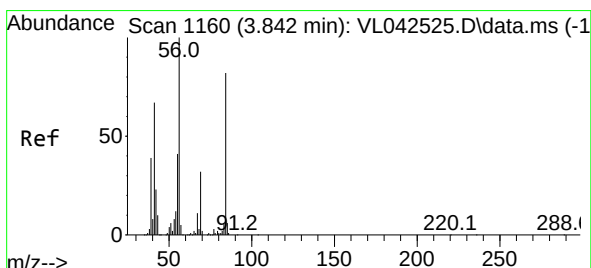
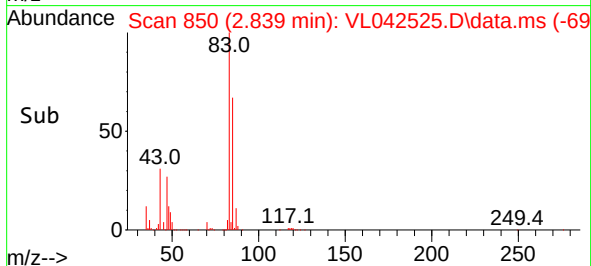
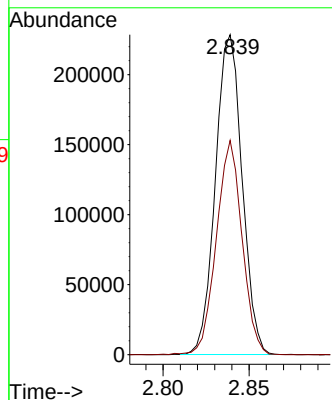
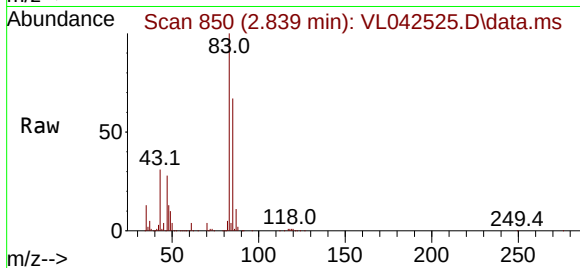
85 66.9 53.5 80.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025

Supervised By :Mahesh Dadoda 05/14/2025



#30

Cyclohexane

Concen: 10.787 ppbv

RT: 3.842 min Scan# 1160

Delta R.T. 0.000 min

Lab File: VL042525.D

Acq: 12 May 2025 08:57

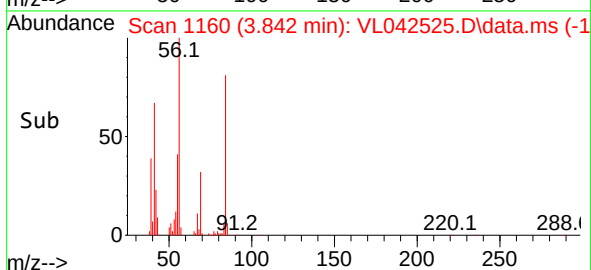
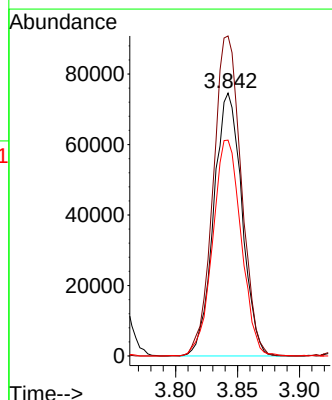
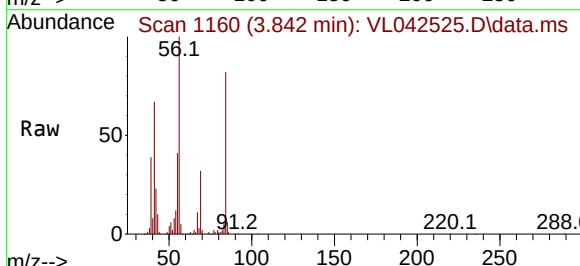
Tgt Ion: 84 Resp: 118162

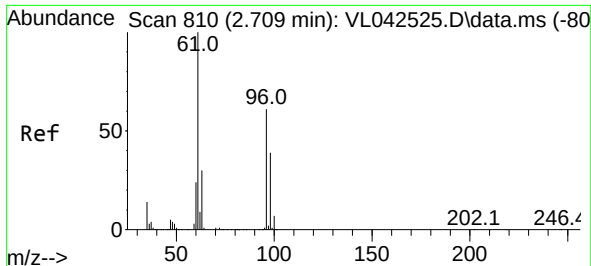
Ion Ratio Lower Upper

84 100

56 121.4 97.1 145.7

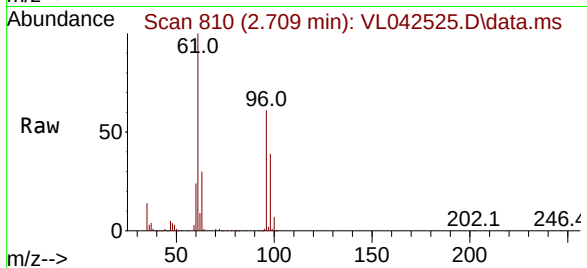
41 83.1 66.6 99.8





#31
 cis-1,2-Dichloroethene
 Concen: 9.788 ppbv
 RT: 2.709 min Scan# 810
 Delta R.T. 0.000 min
 Lab File: VL042525.D
 Acq: 12 May 2025 08:57

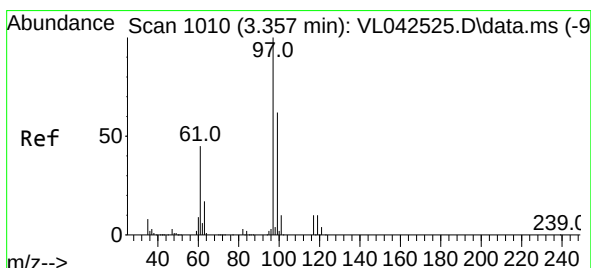
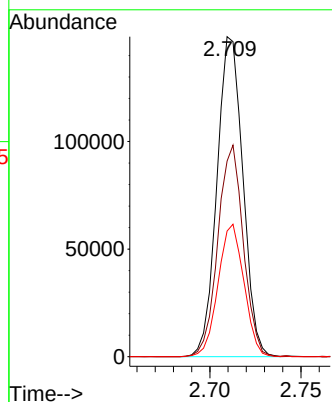
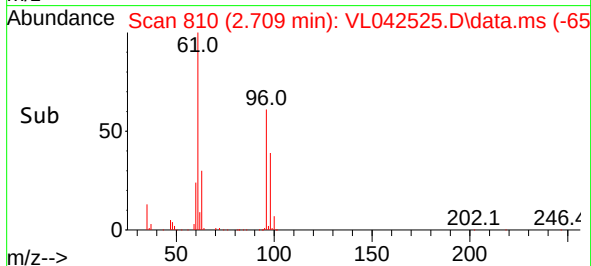
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



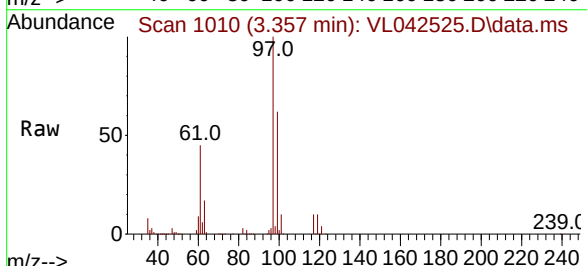
Tgt Ion: 61 Resp: 147461
 Ion Ratio Lower Upper
 61 100
 96 61.1 48.9 73.3
 98 39.3 31.4 47.2

Manual Integrations
 APPROVED

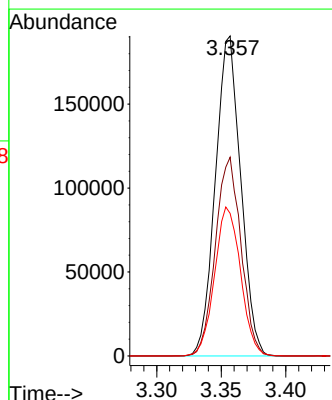
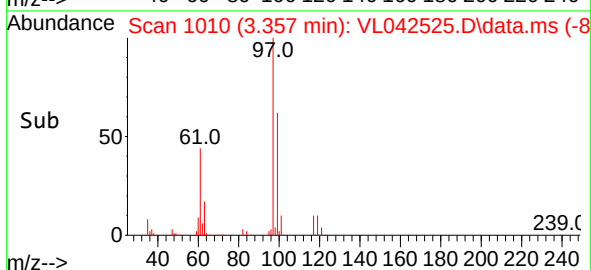
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025

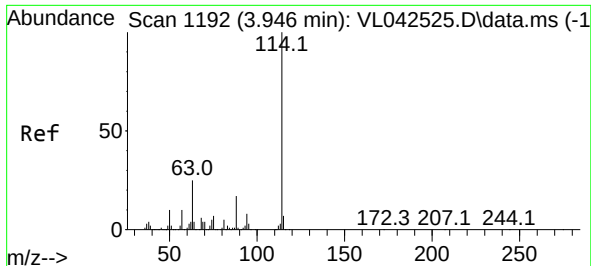


#32
 1,1,1-Trichloroethane
 Concen: 9.331 ppbv
 RT: 3.357 min Scan# 1010
 Delta R.T. 0.000 min
 Lab File: VL042525.D
 Acq: 12 May 2025 08:57



Tgt Ion: 97 Resp: 260477
 Ion Ratio Lower Upper
 97 100
 99 62.6 50.1 75.1
 61 47.7 38.2 57.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.946 min Scan# 1192

Delta R.T. 0.000 min

Lab File: VL042525.D

Acq: 12 May 2025 08:57

Instrument :

MSVOA_L

ClientSampleId :

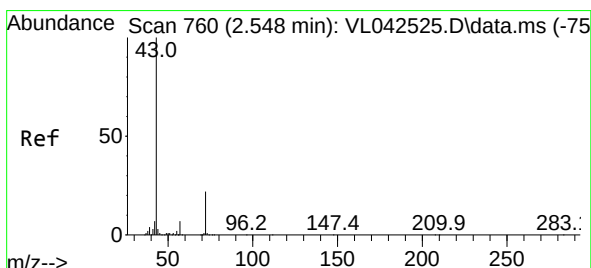
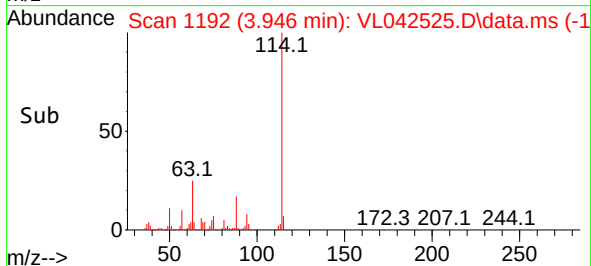
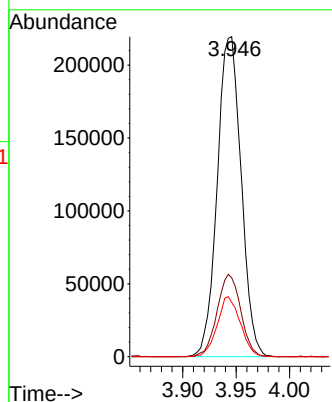
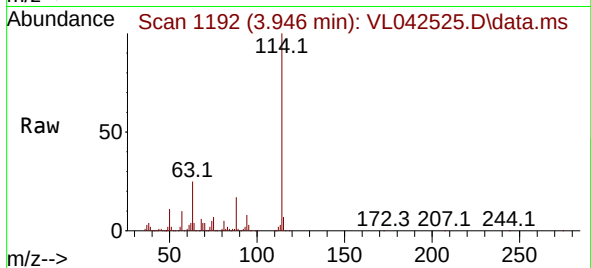
VSTDICCC010

Tgt Ion:	114	Resp:	34171
Ion Ratio	Lower	Upper	
114	100		
63	25.5	20.4	30.6
88	18.1	14.5	21.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#34

2-Butanone

Concen: 9.075 ppbv

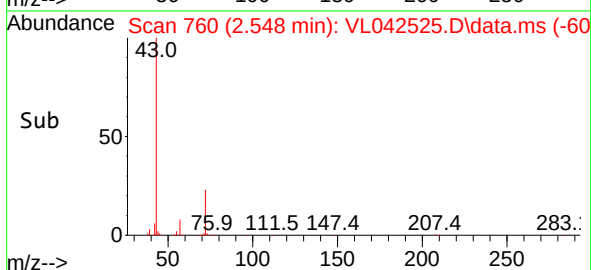
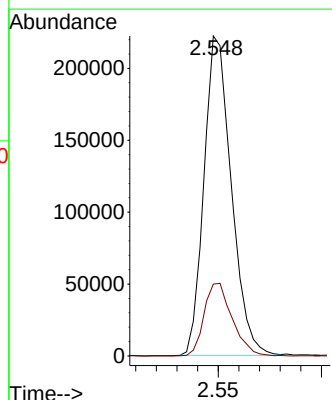
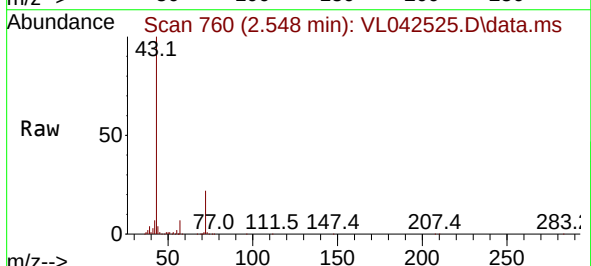
RT: 2.548 min Scan# 760

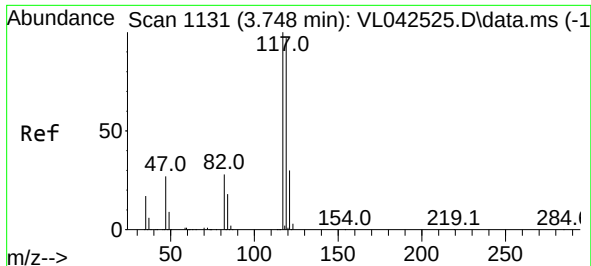
Delta R.T. 0.000 min

Lab File: VL042525.D

Acq: 12 May 2025 08:57

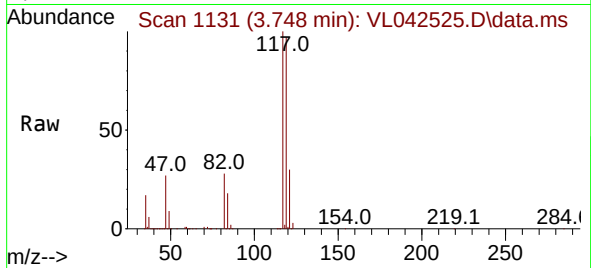
Tgt Ion:	43	Resp:	204394
Ion Ratio	Lower	Upper	
43	100		
72	23.4	18.7	28.1





#35
Carbon Tetrachloride
Concen: 8.956 ppbv
RT: 3.748 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

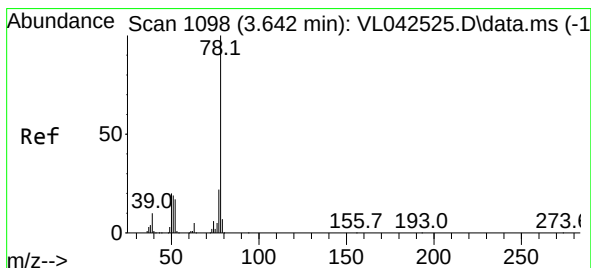
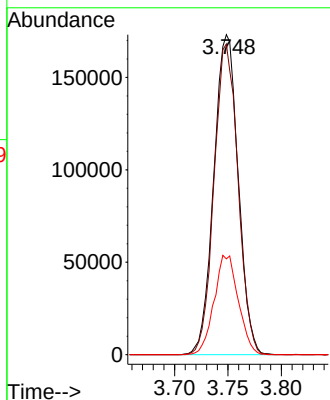
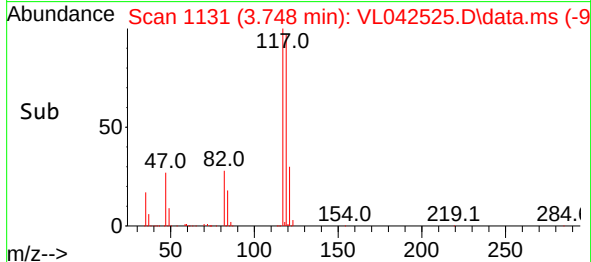
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



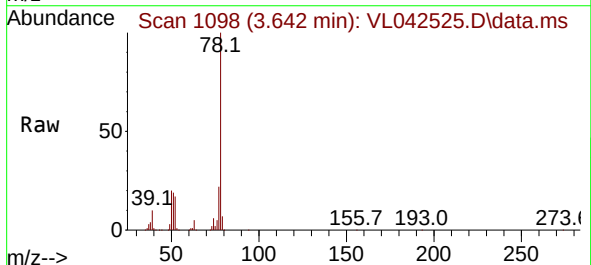
Tgt Ion: 117 Resp: 27514
Ion Ratio Lower Upper
117 100
119 97.1 77.7 116.5
121 30.0 24.0 36.0

Manual Integrations
APPROVED

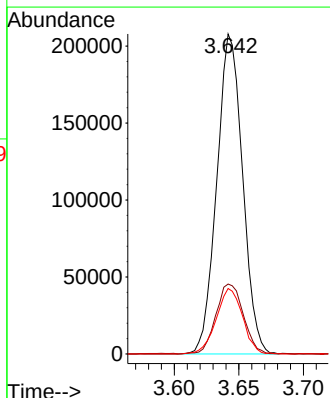
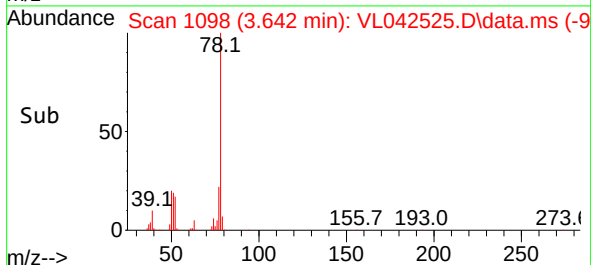
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

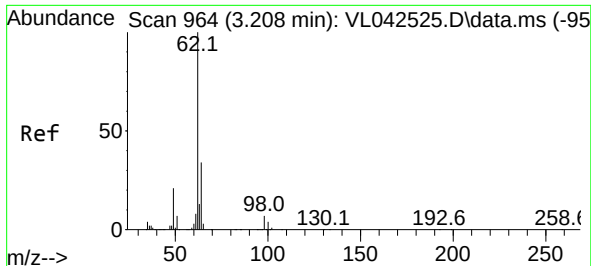


#36
Benzene
Concen: 9.522 ppbv
RT: 3.642 min Scan# 1098
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57



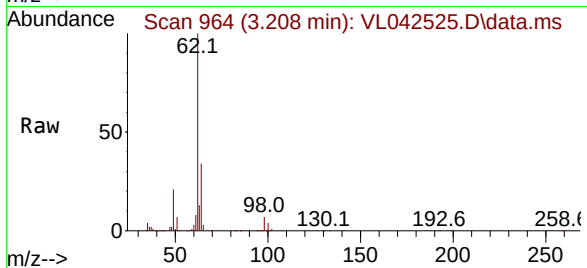
Tgt Ion: 78 Resp: 288357
Ion Ratio Lower Upper
78 100
77 21.8 17.4 26.2
50 20.4 16.3 24.5





#37
1,2-Dichloroethane
Concen: 9.003 ppbv
RT: 3.208 min Scan# 964
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

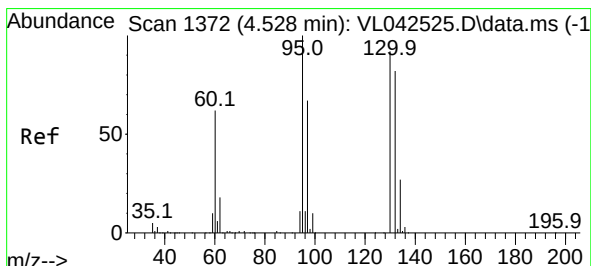
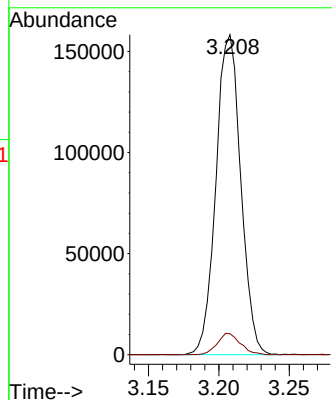
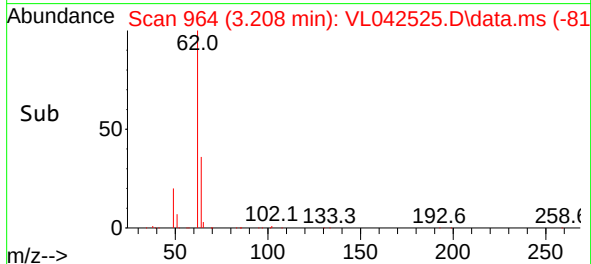
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



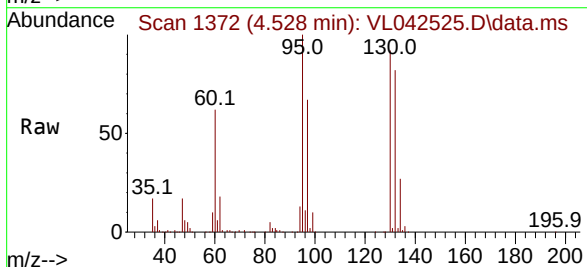
Tgt Ion: 62 Resp: 19447
Ion Ratio Lower Upper
62 100
98 6.2 5.0 7.4

Manual Integrations
APPROVED

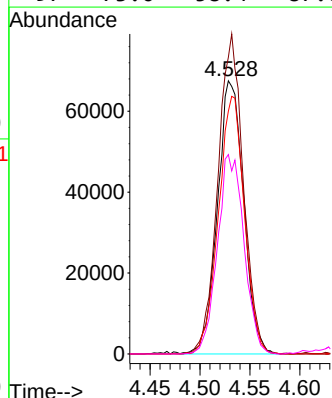
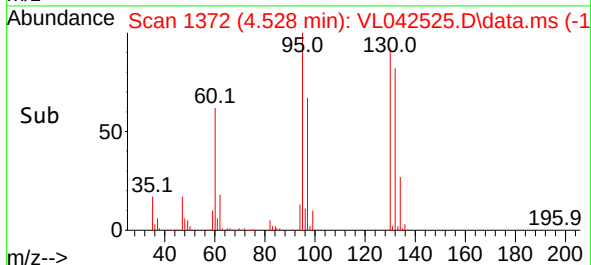
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

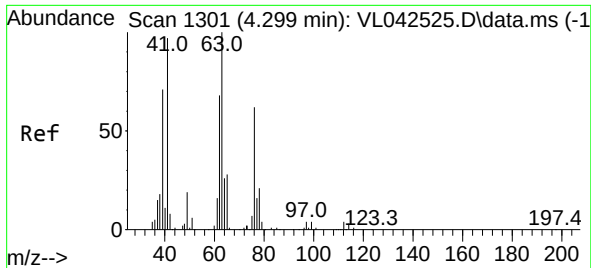


#38
Trichloroethene
Concen: 9.520 ppbv
RT: 4.528 min Scan# 1372
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57



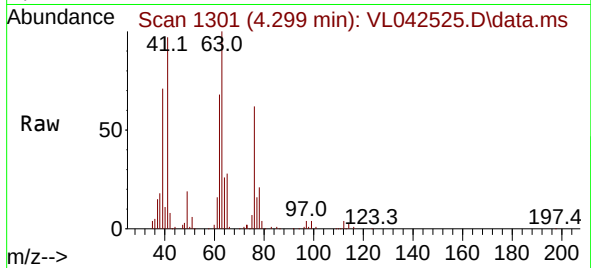
Tgt Ion:130 Resp: 123174
Ion Ratio Lower Upper
130 100
95 108.7 87.0 130.4
132 88.9 71.1 106.7
97 73.0 58.4 87.6





#39
1,2-Dichloropropane
Concen: 9.342 ppbv
RT: 4.299 min Scan# 1301
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

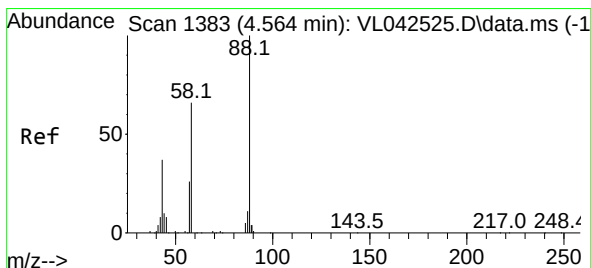
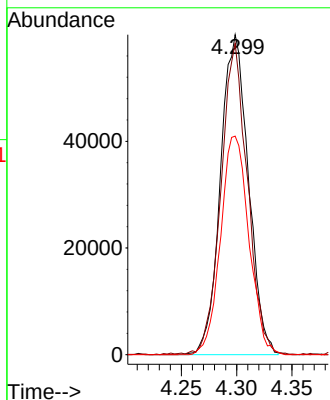
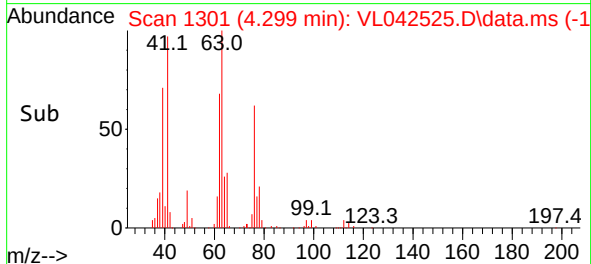
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



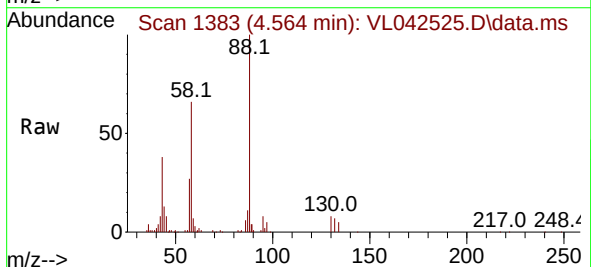
Tgt Ion: 63 Resp: 10531
Ion Ratio Lower Upper
63 100
41 96.9 77.5 116.3
62 68.3 54.6 82.0

Manual Integrations
APPROVED

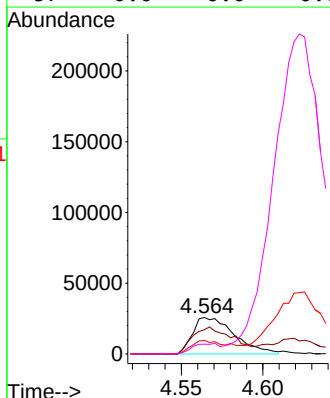
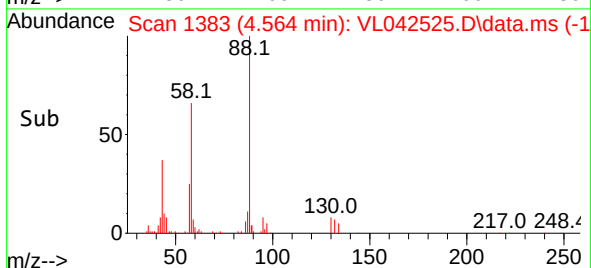
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

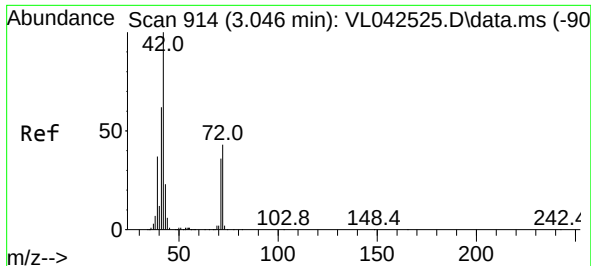


#40
1,4-Dioxane
Concen: 10.246 ppbv
RT: 4.564 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57



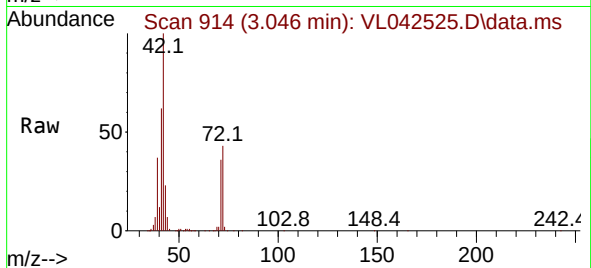
Tgt Ion: 88 Resp: 46049
Ion Ratio Lower Upper
88 100
58 75.5 58.2 87.2
43 37.5 27.9 41.9
57 0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 10.824 ppbv
RT: 3.046 min Scan# 914
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

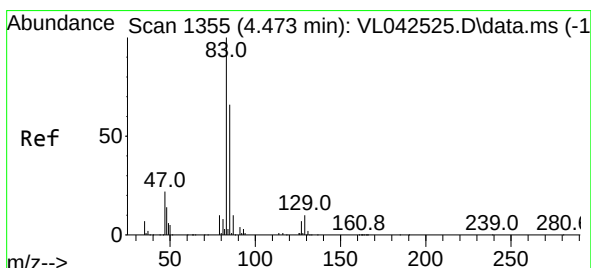
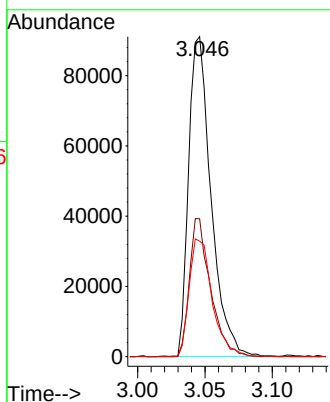
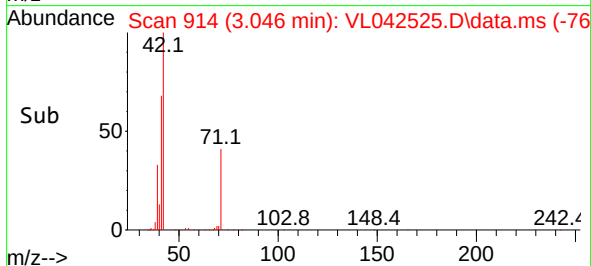
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



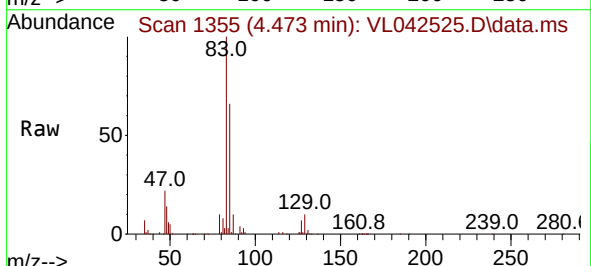
Tgt Ion: 42 Resp: 105158
Ion Ratio Lower Upper
42 100
72 40.9 32.7 49.1
71 38.0 30.4 45.6

Manual Integrations
APPROVED

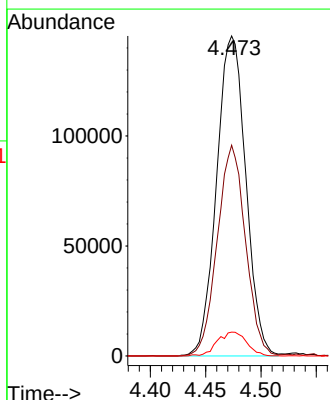
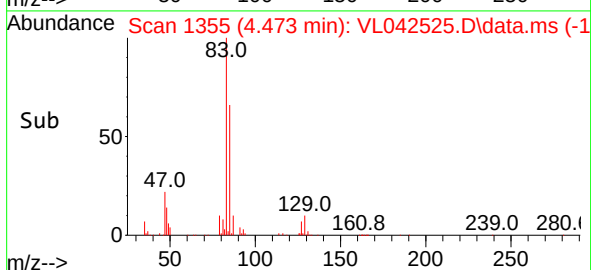
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

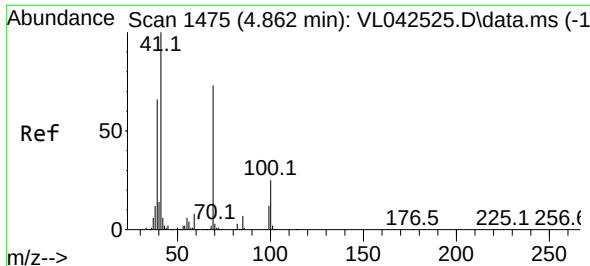


#42
Bromodichloromethane
Concen: 9.286 ppbv
RT: 4.473 min Scan# 1355
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57



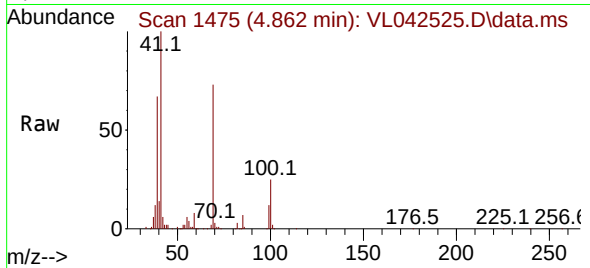
Tgt Ion: 83 Resp: 267225
Ion Ratio Lower Upper
83 100
85 65.8 52.6 79.0
127 7.5 6.0 9.0





#43
Methyl Methacrylate
Concen: 10.879 ppbv
RT: 4.862 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

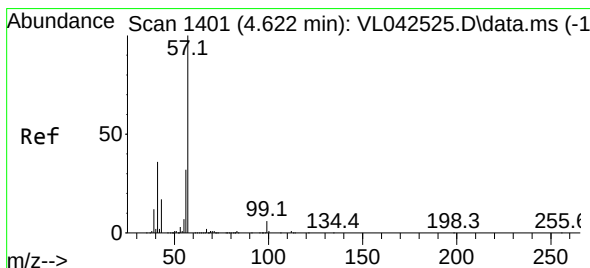
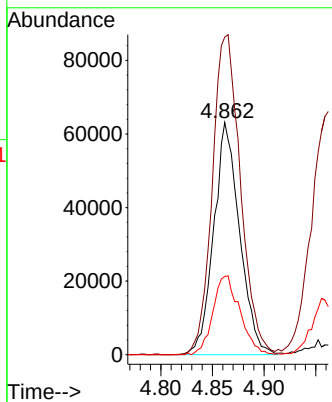
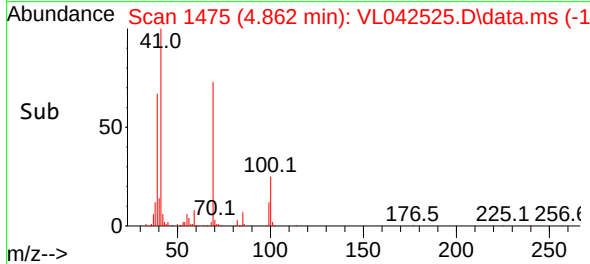
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010



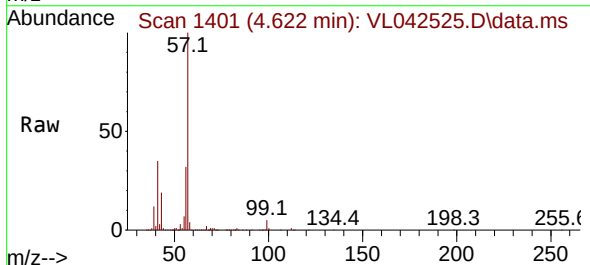
Tgt Ion: 69 Resp: 110028
Ion Ratio Lower Upper
69 100
41 150.0 119.9 179.9
100 35.5 28.4 42.6

Manual Integrations
APPROVED

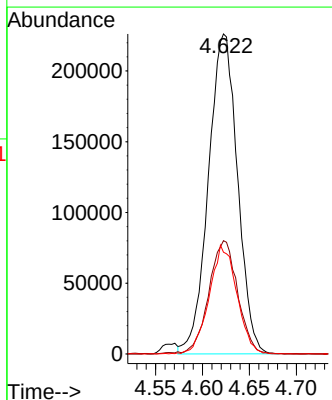
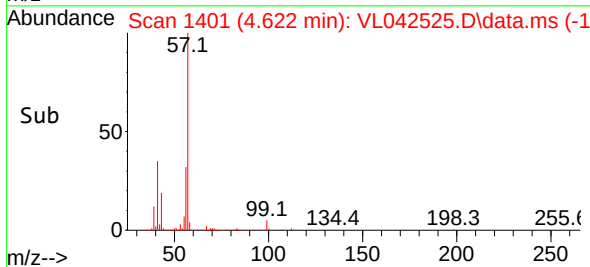
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

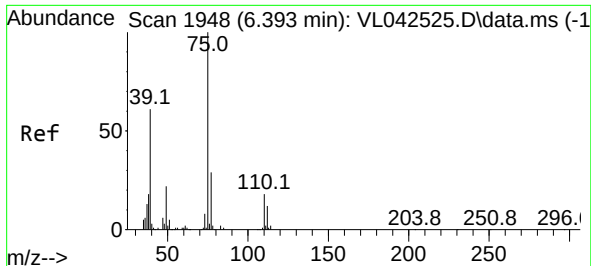


#44
2,2,4-Trimethylpentane
Concen: 10.240 ppbv
RT: 4.622 min Scan# 1401
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57



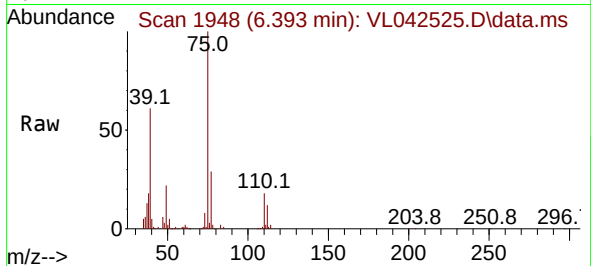
Tgt Ion: 57 Resp: 486999
Ion Ratio Lower Upper
57 100
41 35.4 28.3 42.5
56 32.4 25.9 38.9





#45
 t-1,3-Dichloropropene
 Concen: 10.664 ppbv
 RT: 6.393 min Scan# 1948
 Delta R.T. 0.000 min
 Lab File: VL042525.D
 Acq: 12 May 2025 08:57

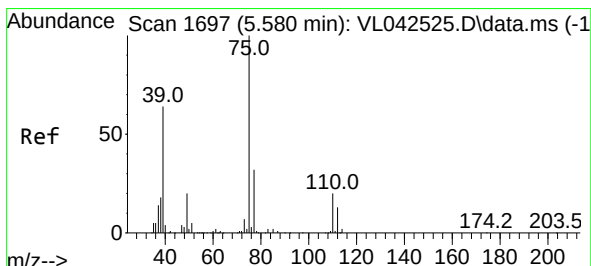
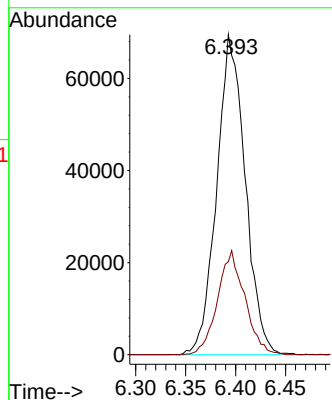
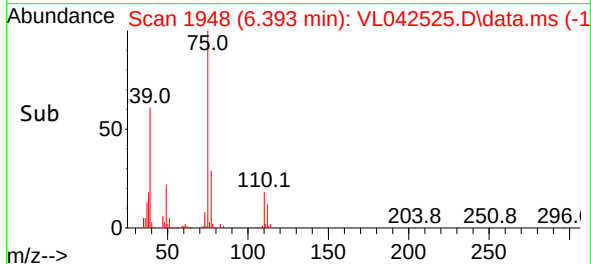
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



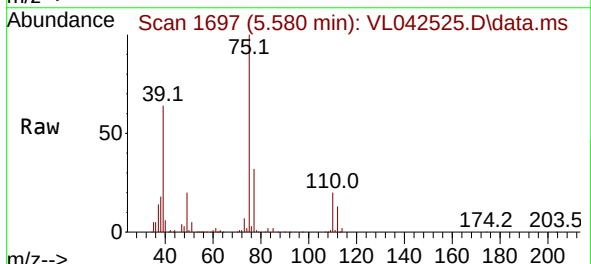
Tgt Ion: 75 Resp: 137698
 Ion Ratio Lower Upper
 75 100
 77 29.1 23.3 34.9

Manual Integrations
 APPROVED

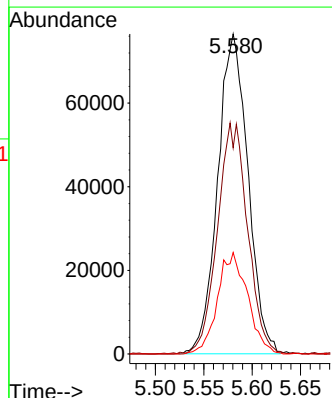
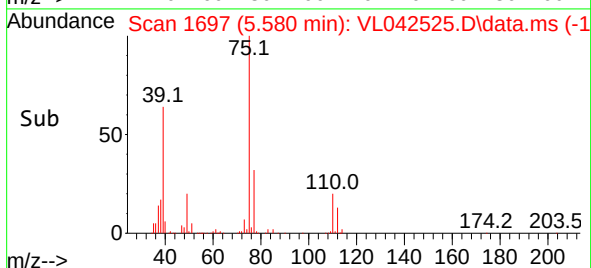
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025

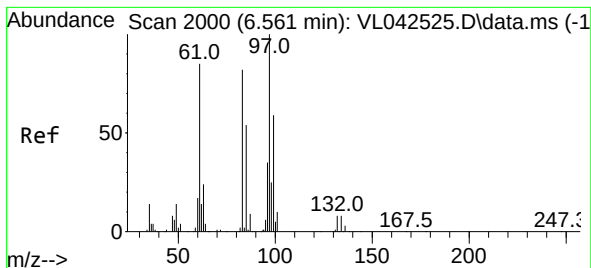


#46
 cis-1,3-Dichloropropene
 Concen: 10.673 ppbv
 RT: 5.580 min Scan# 1697
 Delta R.T. 0.000 min
 Lab File: VL042525.D
 Acq: 12 May 2025 08:57



Tgt Ion: 75 Resp: 166227
 Ion Ratio Lower Upper
 75 100
 39 64.0 51.2 76.8
 77 31.7 25.4 38.0





#47

1,1,2-Trichloroethane

Concen: 9.025 ppbv

RT: 6.561 min Scan# 2000

Delta R.T. 0.000 min

Lab File: VL042525.D

Acq: 12 May 2025 08:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 97 Resp: 11979

Ion Ratio Lower Upper

97 100

83 82.5 66.0 99.0

85 53.5 42.8 64.2

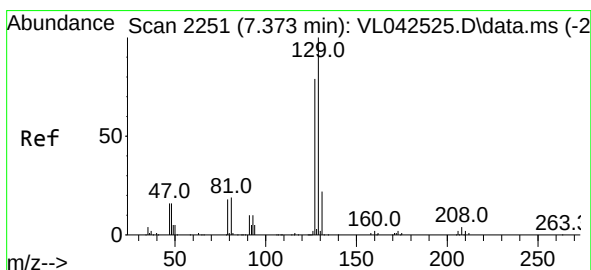
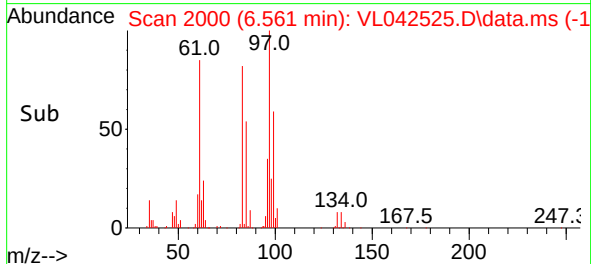
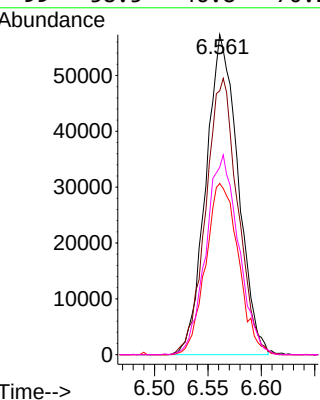
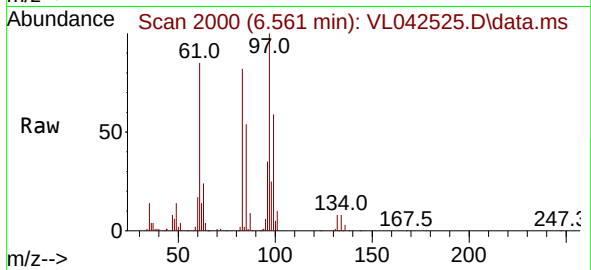
99 58.5 46.8 70.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025

Supervised By :Mahesh Dadoda 05/14/2025



#48

Dibromochloromethane

Concen: 9.517 ppbv

RT: 7.373 min Scan# 2251

Delta R.T. 0.000 min

Lab File: VL042525.D

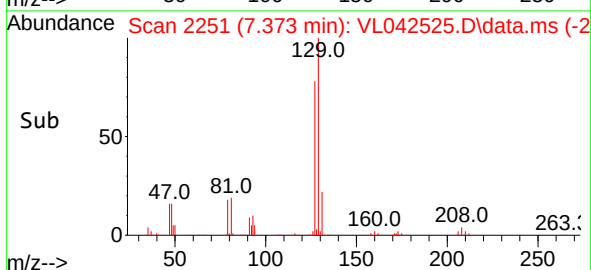
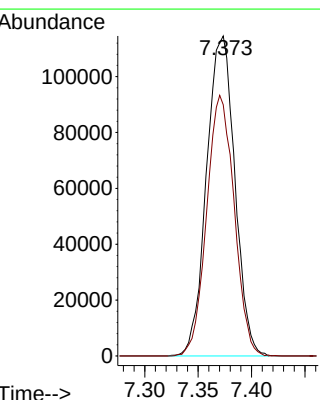
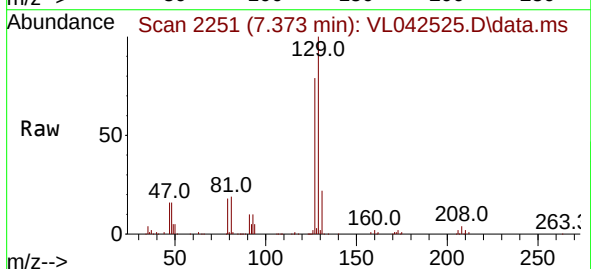
Acq: 12 May 2025 08:57

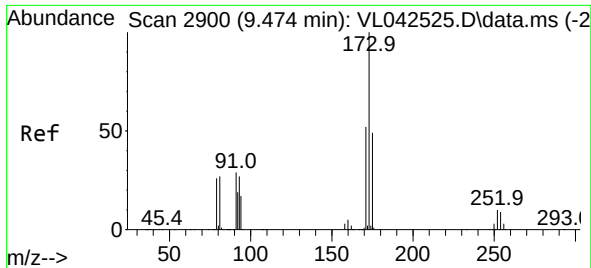
Tgt Ion:129 Resp: 211079

Ion Ratio Lower Upper

129 100

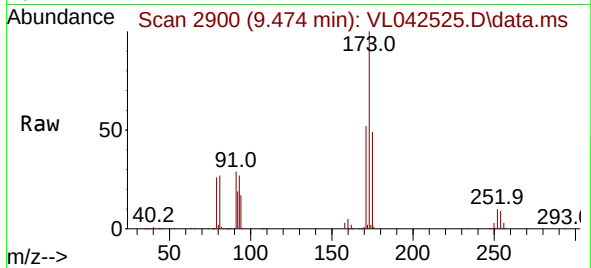
127 79.2 39.6 118.8





#49
Bromoform
Concen: 9.802 ppbv
RT: 9.474 min Scan# 2900
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

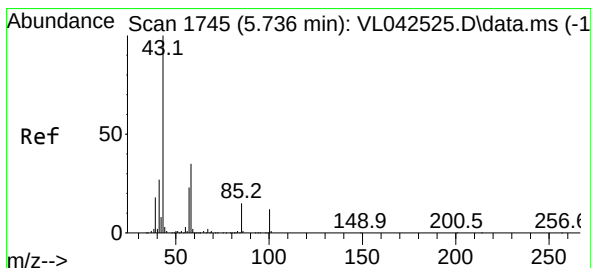
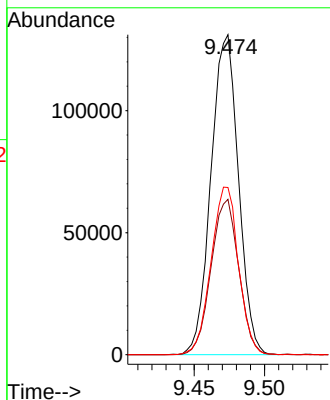
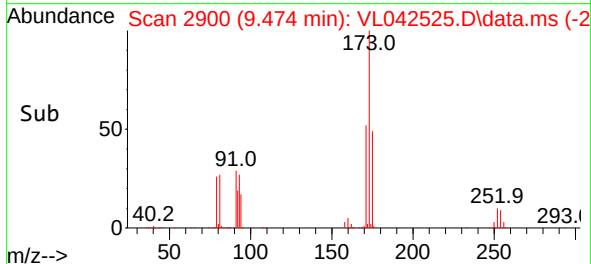
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



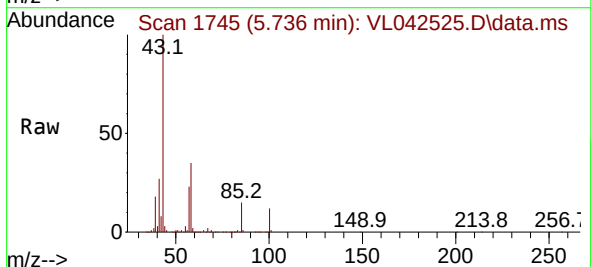
Tgt Ion: 173 Resp: 17840
Ion Ratio Lower Upper
173 100
175 48.9 39.1 58.7
171 52.3 41.8 62.8

Manual Integrations
APPROVED

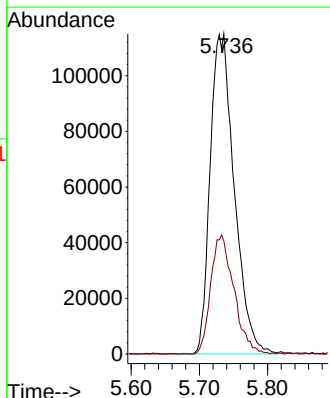
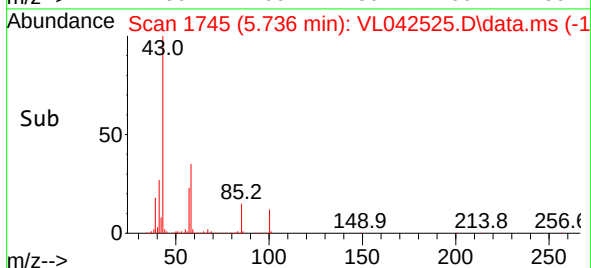
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

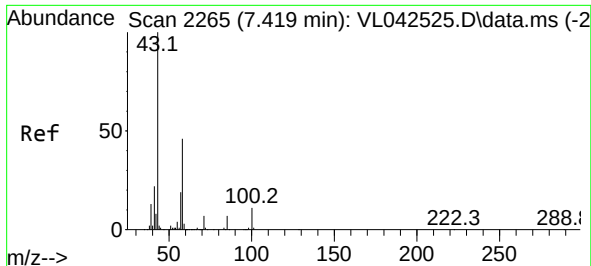


#50
4-Methyl-2-Pentanone
Concen: 10.684 ppbv m
RT: 5.736 min Scan# 1745
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57



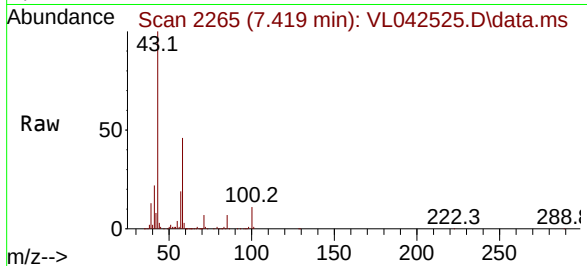
Tgt Ion: 43 Resp: 282238
Ion Ratio Lower Upper
43 100
58 35.8 28.6 42.8





#51
2-Hexanone
Concen: 11.522 ppbv
RT: 7.419 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

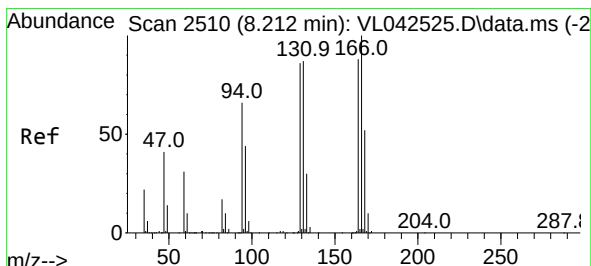
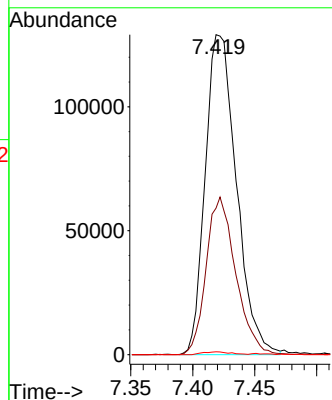
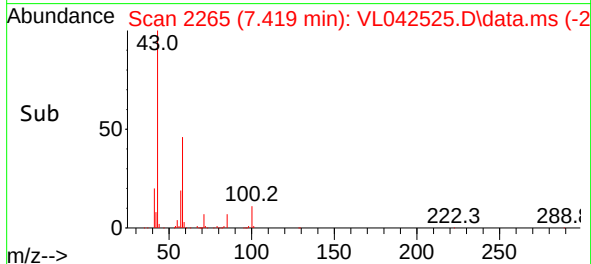
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 43 Resp: 22622
Ion Ratio Lower Upper
43 100
58 46.8 37.5 56.3
98 1.1 0.9 1.3

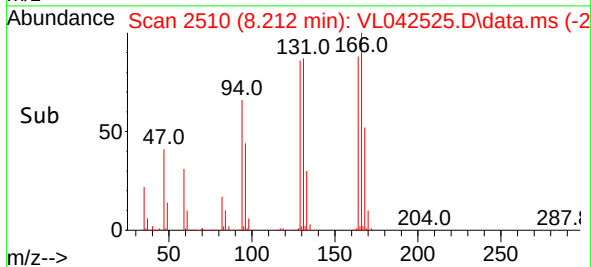
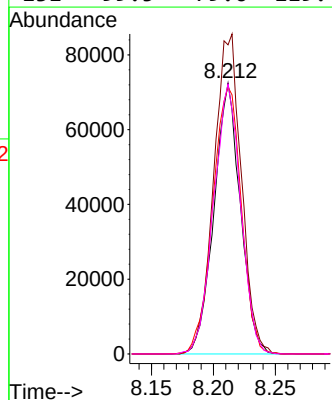
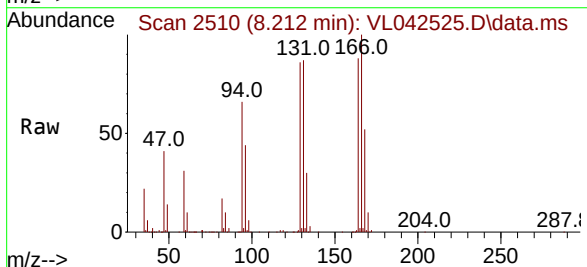
Manual Integrations
APPROVED

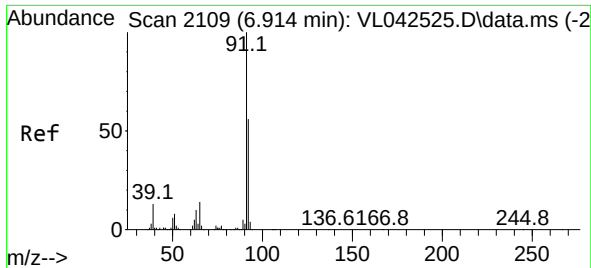
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#52
Tetrachloroethene
Concen: 9.209 ppbv
RT: 8.212 min Scan# 2510
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

Tgt Ion:164 Resp: 107438
Ion Ratio Lower Upper
164 100
166 114.1 91.3 136.9
129 98.6 78.9 118.3
131 99.5 79.6 119.4





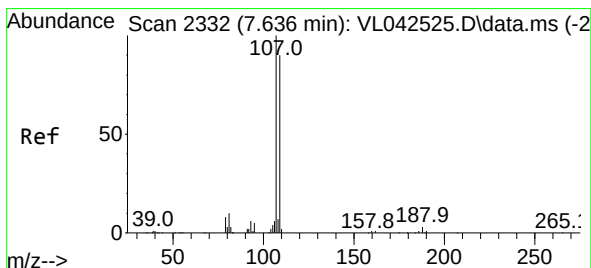
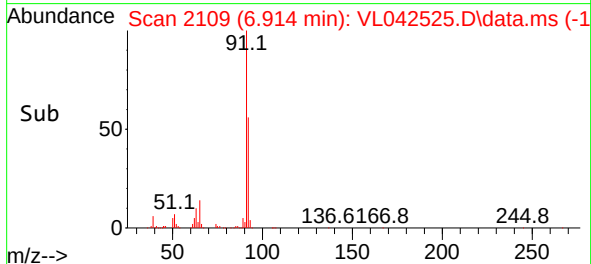
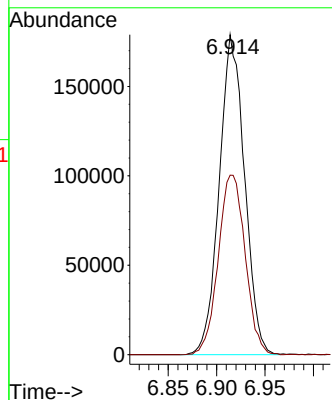
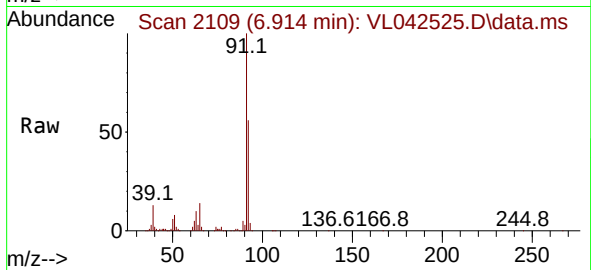
#53
Toluene
Concen: 10.955 ppbv
RT: 6.914 min Scan# 2109
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 91 Resp: 32556
Ion Ratio Lower Upper
91 100
92 59.7 47.8 71.6

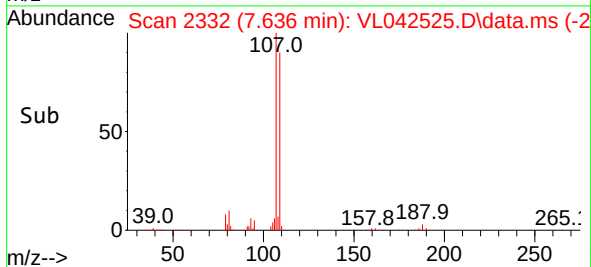
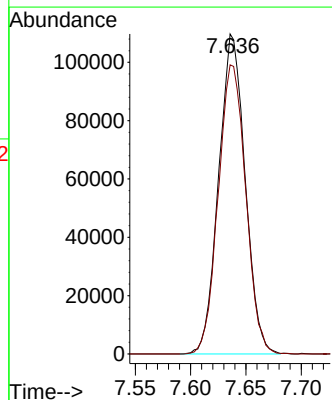
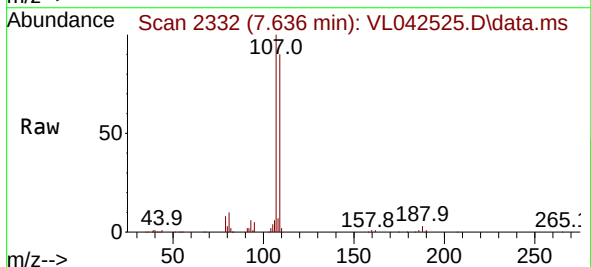
Manual Integrations
APPROVED

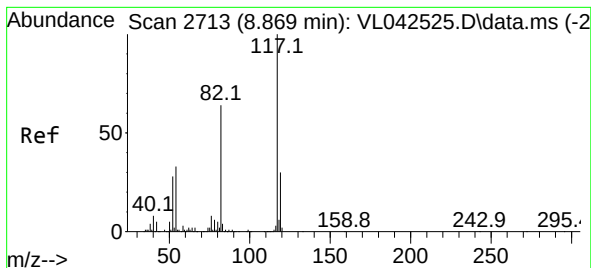
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#54
1,2-Dibromoethane
Concen: 9.400 ppbv
RT: 7.636 min Scan# 2332
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

Tgt Ion:107 Resp: 182336
Ion Ratio Lower Upper
107 100
109 90.3 72.2 108.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.869 min Scan# 2713

Delta R.T. 0.000 min

Lab File: VL042525.D

Acq: 12 May 2025 08:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

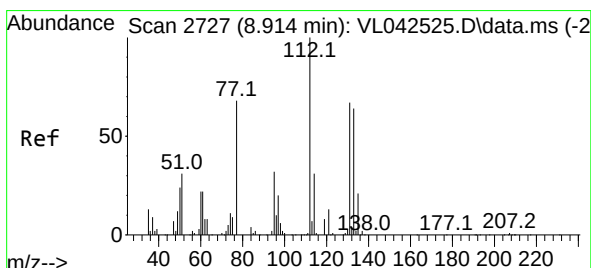
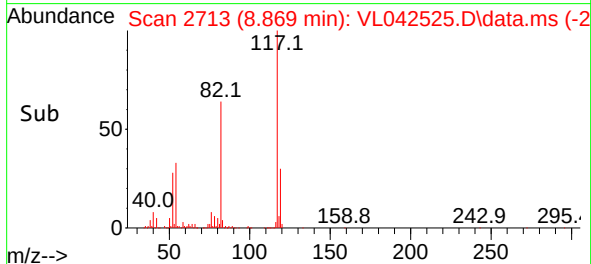
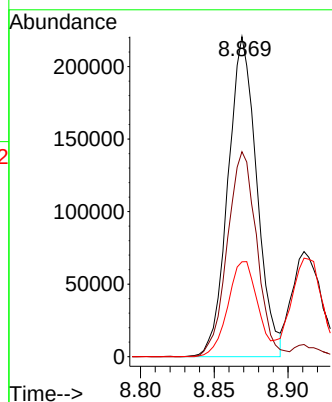
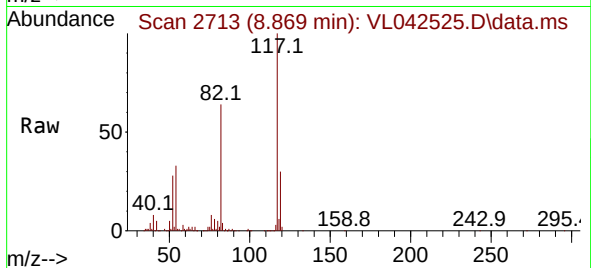
Tgt Ion:117 Resp: 299780

Ion	Ratio	Lower	Upper
117	100		
82	68.7	55.0	82.4
119	32.2	25.8	38.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#56

1,1,1,2-Tetrachloroethane

Concen: 8.909 ppbv

RT: 8.914 min Scan# 2727

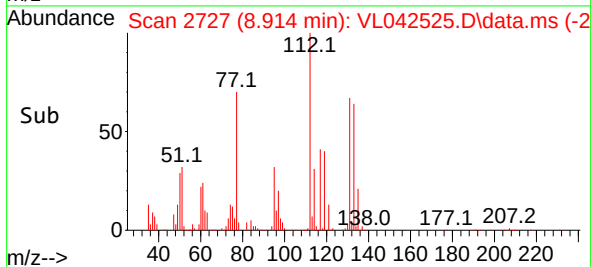
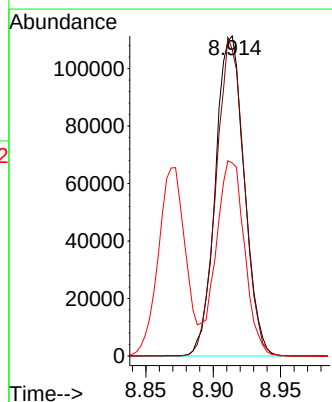
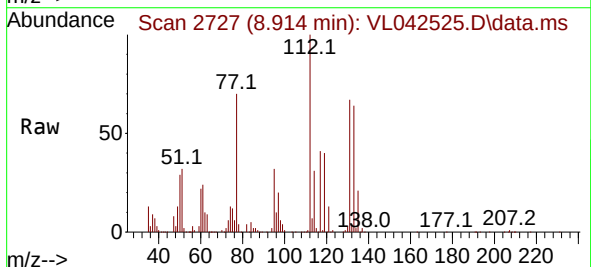
Delta R.T. 0.000 min

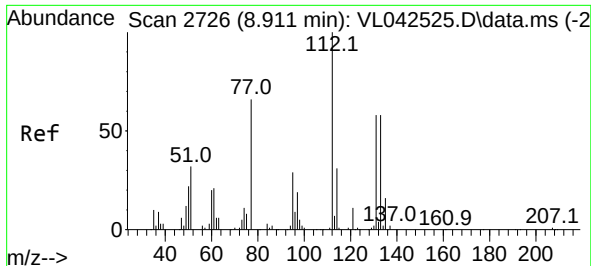
Lab File: VL042525.D

Acq: 12 May 2025 08:57

Tgt Ion:131 Resp: 165589

Ion	Ratio	Lower	Upper
131	100		
133	96.8	77.4	116.2
119	59.8	49.0	73.4





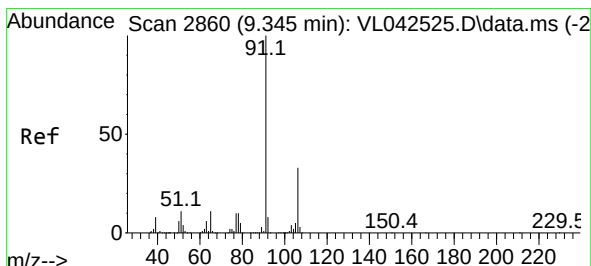
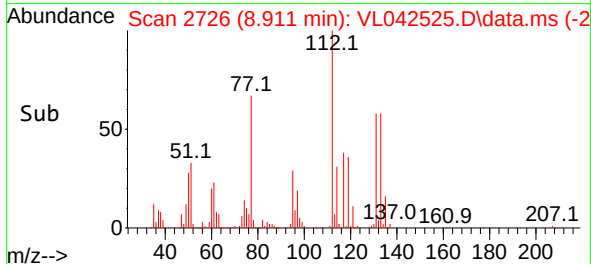
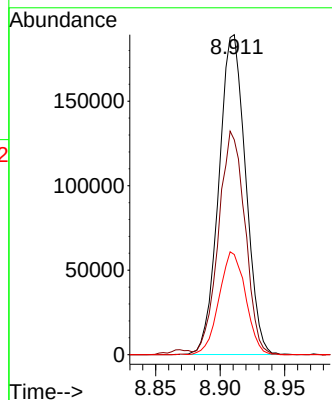
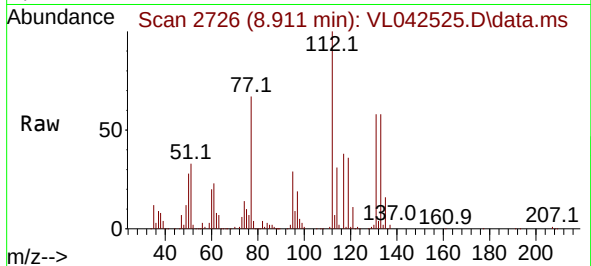
#57
Chlorobenzene
Concen: 9.077 ppbv
RT: 8.911 min Scan# 2726
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 112 Resp: 273225
Ion Ratio Lower Upper
112 100
77 67.0 53.6 80.4
114 31.3 28.2 34.4

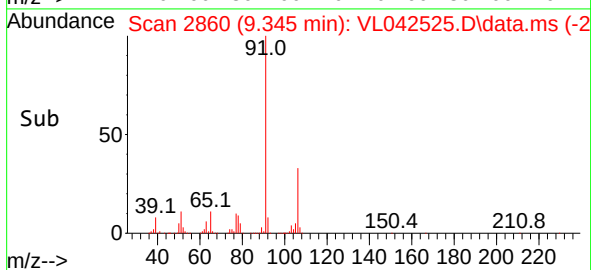
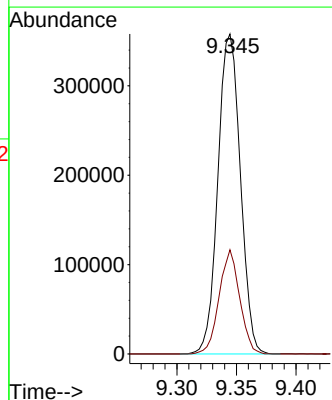
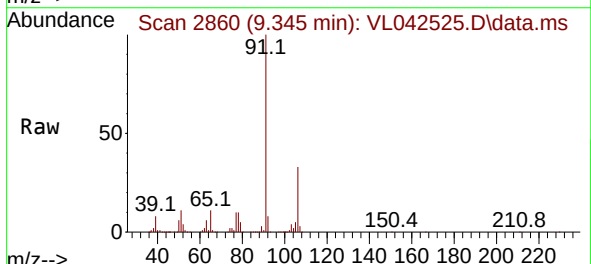
Manual Integrations
APPROVED

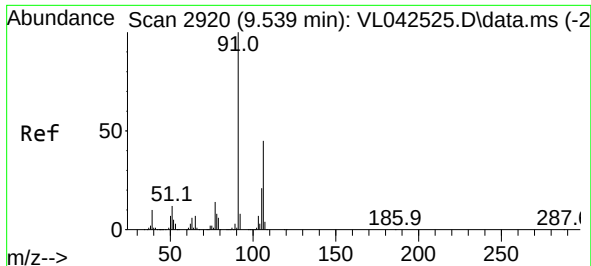
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#58
Ethyl Benzene
Concen: 11.466 ppbv
RT: 9.345 min Scan# 2860
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

Tgt Ion: 91 Resp: 468520
Ion Ratio Lower Upper
91 100
106 32.5 26.0 39.0





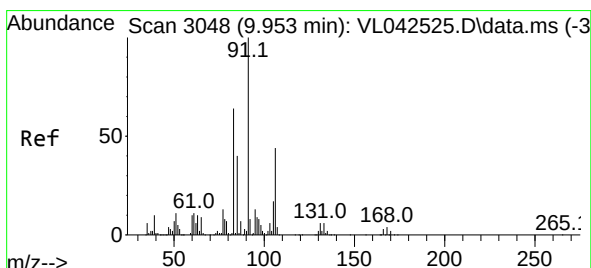
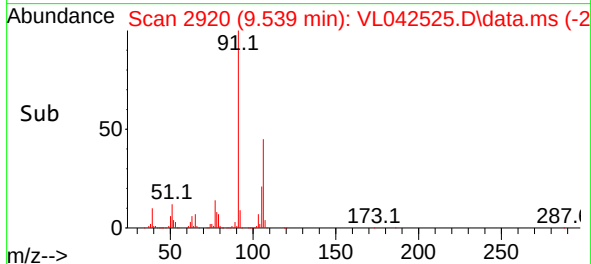
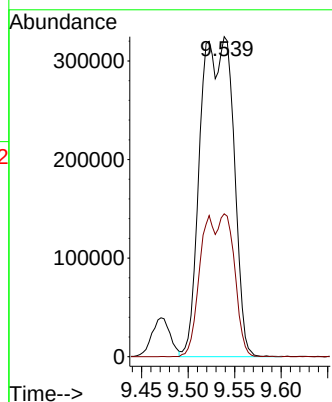
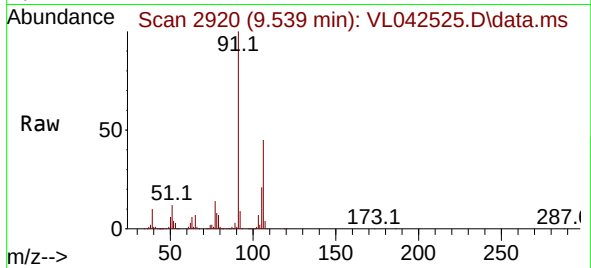
#59
m/p-Xylene
Concen: 22.134 ppbv m
RT: 9.539 min Scan# 2920
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 91 Resp: 80456
Ion Ratio Lower Upper
91 100
106 44.3 0.0 0.0

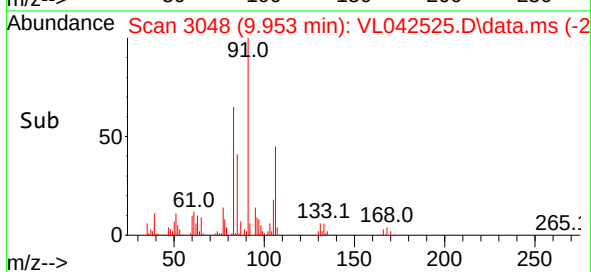
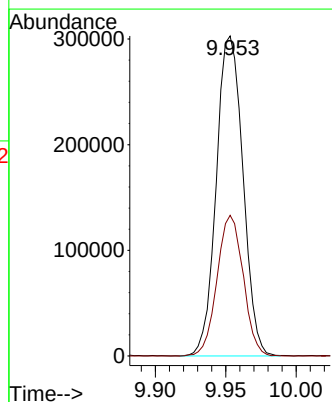
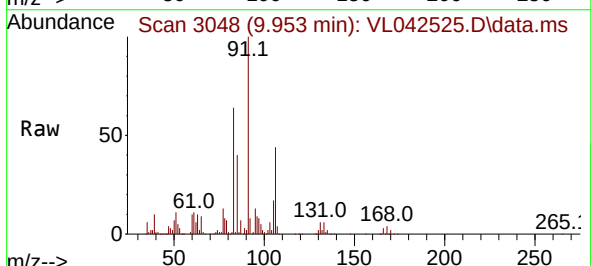
Manual Integrations
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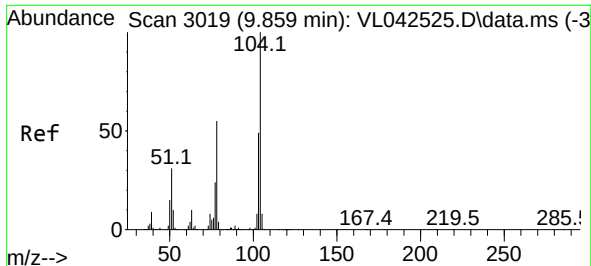
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#60
o-Xylene
Concen: 11.266 ppbv
RT: 9.953 min Scan# 3048
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

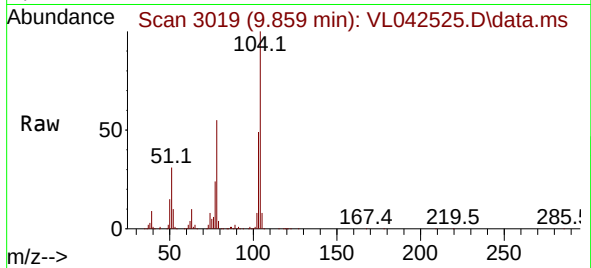
Tgt Ion: 91 Resp: 399046
Ion Ratio Lower Upper
91 100
106 43.1 21.6 64.6





#61
Styrene
Concen: 11.686 ppbv
RT: 9.859 min Scan# 3019
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

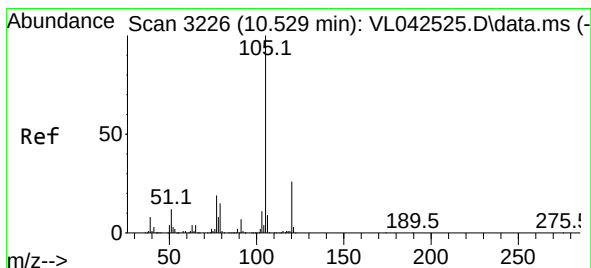
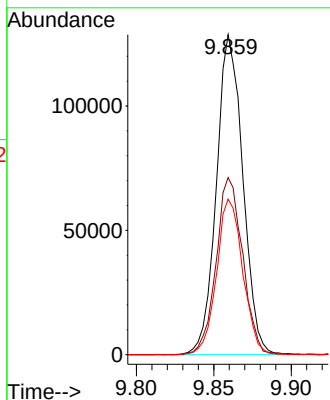
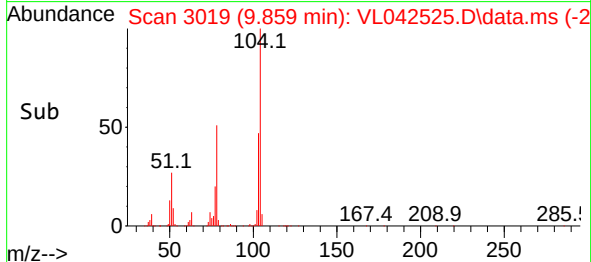
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



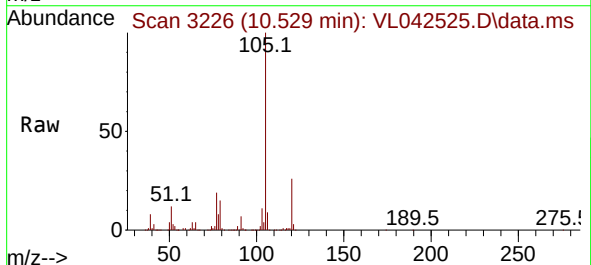
Tgt Ion:104 Resp: 152478
Ion Ratio Lower Upper
104 100
78 55.8 44.7 67.1
103 48.3 38.6 58.0

Manual Integrations
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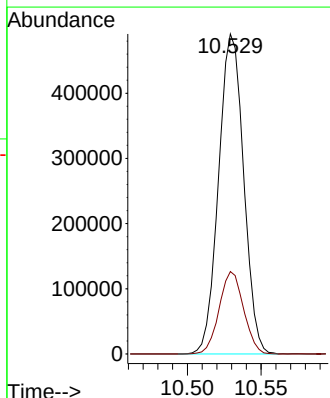
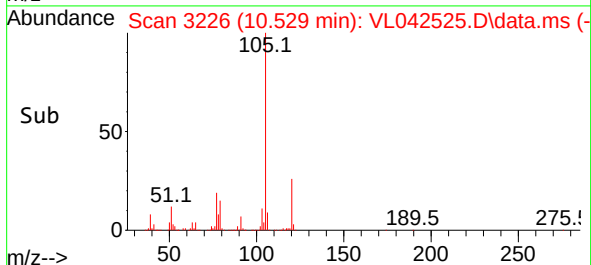
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

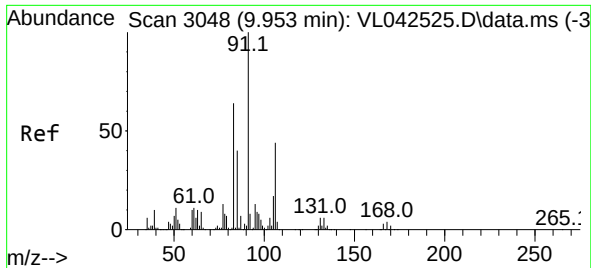


#62
Isopropylbenzene
Concen: 10.856 ppbv
RT: 10.529 min Scan# 3226
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57



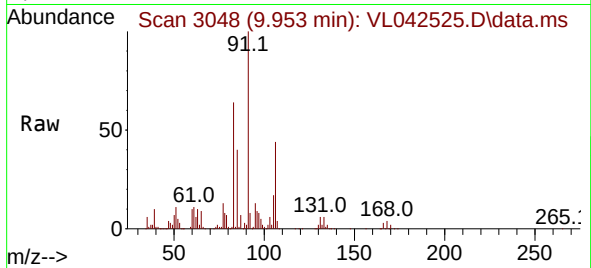
Tgt Ion:105 Resp: 579443
Ion Ratio Lower Upper
105 100
120 25.1 20.1 30.1





#63
1,1,2,2-Tetrachloroethane
Concen: 8.666 ppbv
RT: 9.953 min Scan# 3048
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

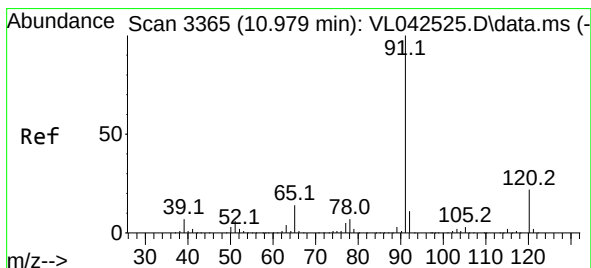
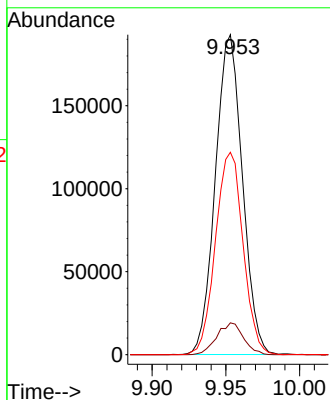
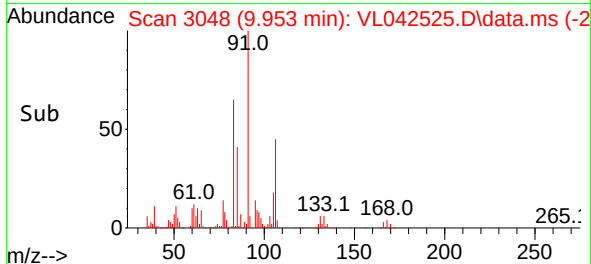
Instrument : MSVOA_L
ClientSampleId : VSTDICCC010



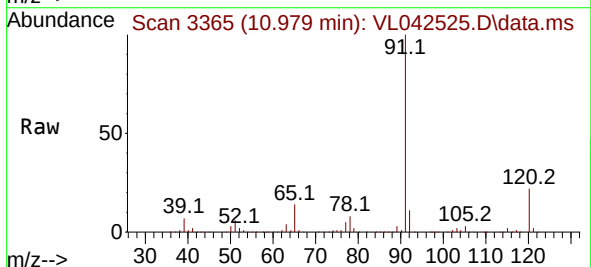
Tgt Ion: 83 Resp: 246197
Ion Ratio Lower Upper
83 100
131 9.8 4.9 14.7
85 64.5 32.3 96.8

Manual Integrations
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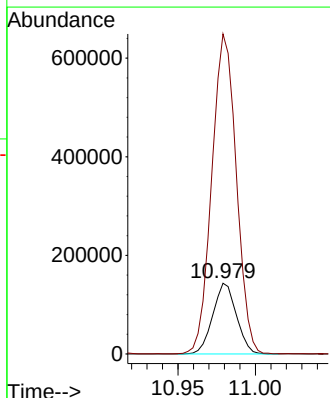
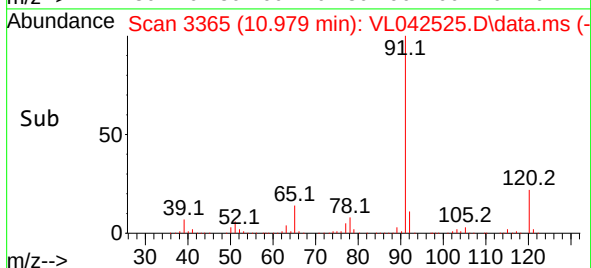
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

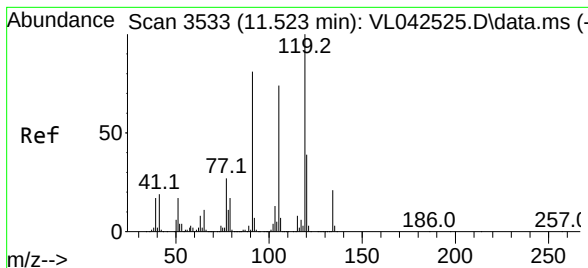


#64
n-propylbenzene
Concen: 11.231 ppbv
RT: 10.979 min Scan# 3365
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57



Tgt Ion:120 Resp: 151897
Ion Ratio Lower Upper
120 100
91 472.0 377.7 566.5





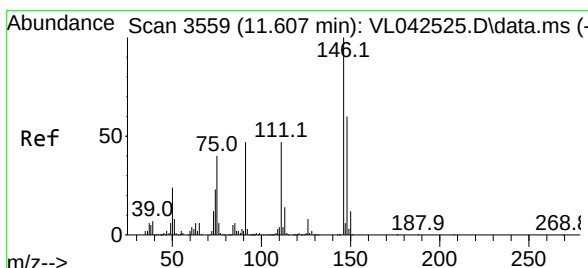
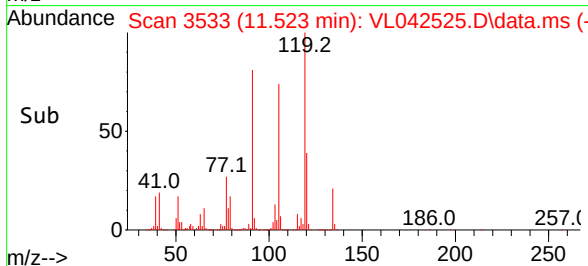
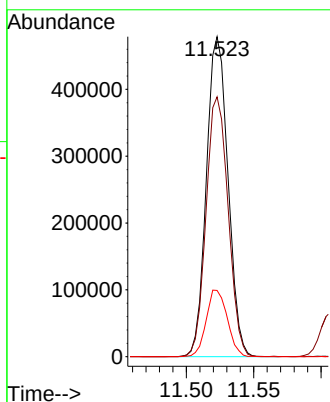
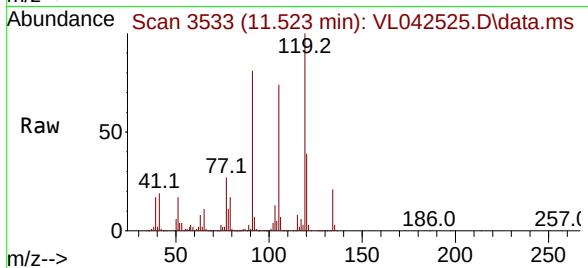
#65
tert-Butylbenzene
Concen: 10.884 ppbv
RT: 11.523 min Scan# 3533
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 119 Resp: 53345
Ion Ratio Lower Upper
119 100
91 83.2 66.6 99.8
134 20.4 16.3 24.5

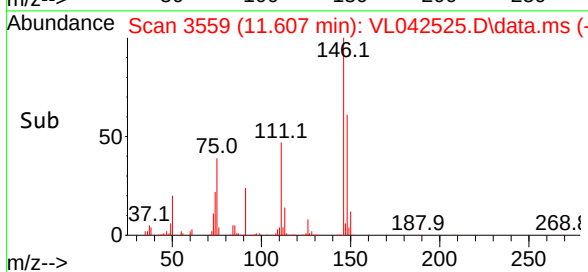
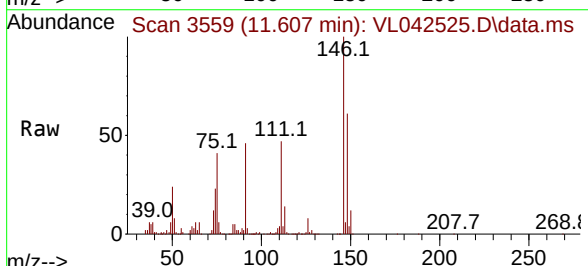
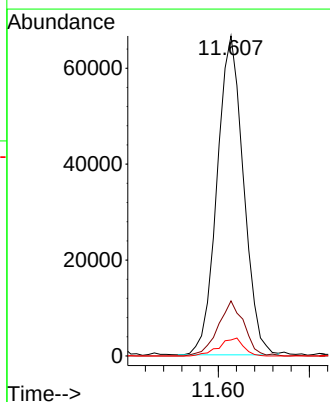
Manual Integrations
APPROVED

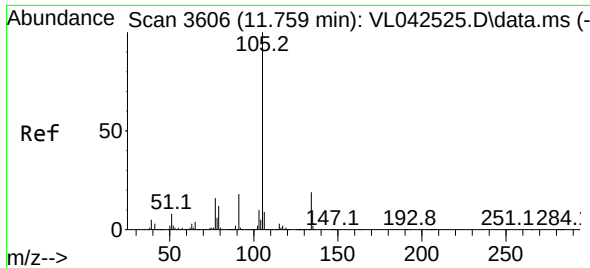
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#66
Benzyl Chloride
Concen: 10.331 ppbv
RT: 11.607 min Scan# 3559
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

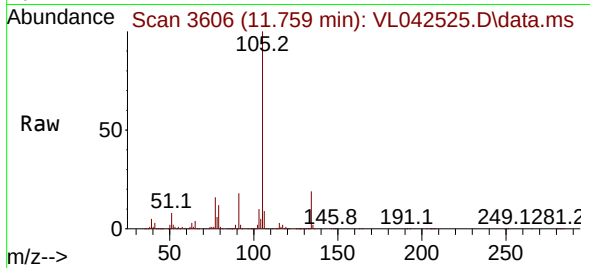
Tgt Ion: 91 Resp: 66999
Ion Ratio Lower Upper
91 100
126 17.1 13.7 20.5
128 5.2 4.2 6.2





#67
 sec-Butylbenzene
 Concen: 10.586 ppbv
 RT: 11.759 min Scan# 3606
 Delta R.T. 0.000 min
 Lab File: VL042525.D
 Acq: 12 May 2025 08:57

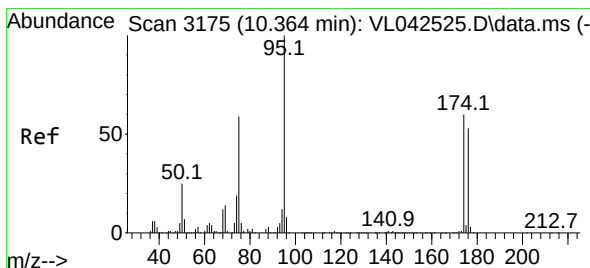
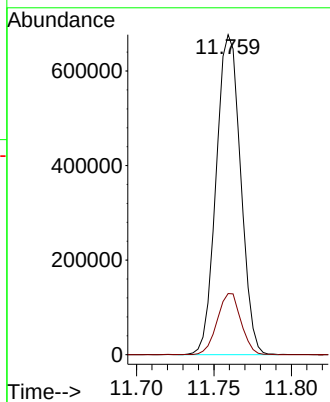
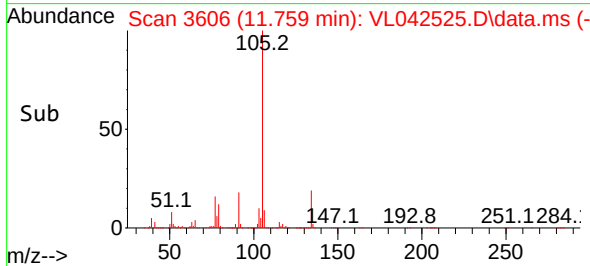
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



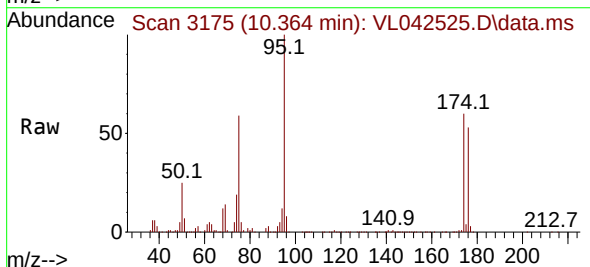
Tgt Ion:105 Resp: 743908
 Ion Ratio Lower Upper
 105 100
 134 18.6 14.9 22.3

Manual Integrations
 APPROVED

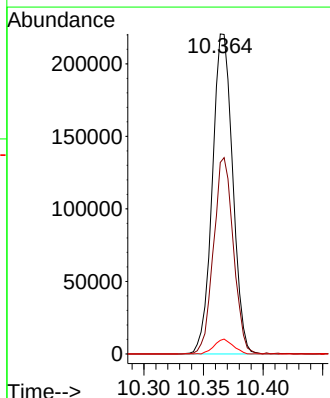
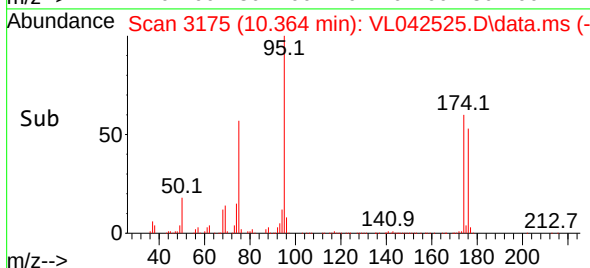
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025

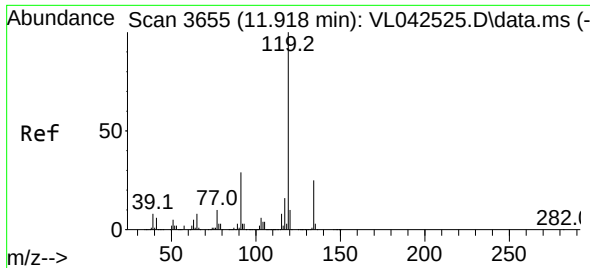


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.029 ppbv
 RT: 10.364 min Scan# 3175
 Delta R.T. 0.000 min
 Lab File: VL042525.D
 Acq: 12 May 2025 08:57



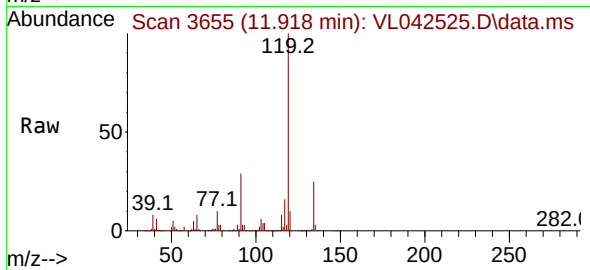
Tgt Ion: 95 Resp: 261594
 Ion Ratio Lower Upper
 95 100
 174 60.1 48.0 72.0
 175 4.4 3.5 5.3





#69
p-Isopropyltoluene
Concen: 11.163 ppbv
RT: 11.918 min Scan# 3655
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

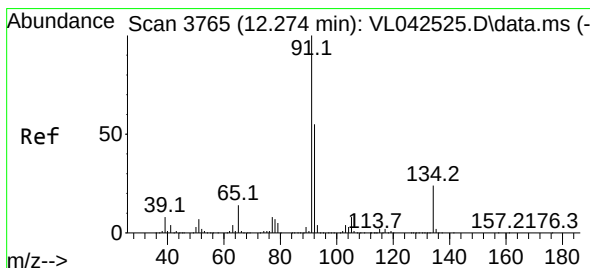
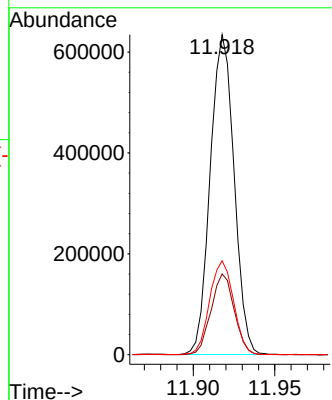
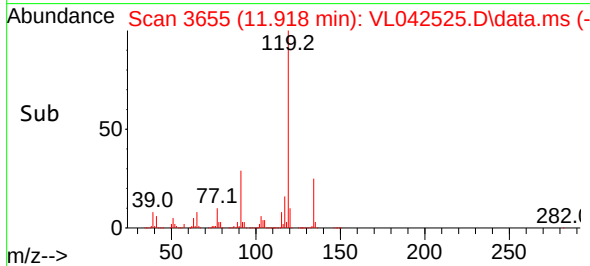
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



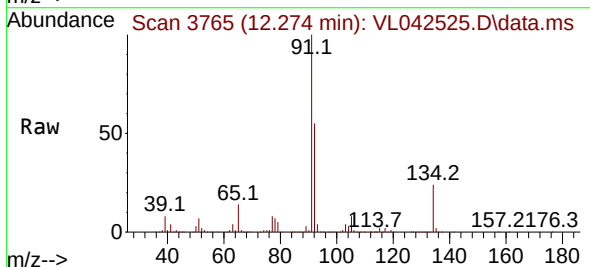
Tgt Ion:119 Resp: 644900
Ion Ratio Lower Upper
119 100
134 24.7 19.8 29.6
91 29.5 23.6 35.4

Manual Integrations
APPROVED

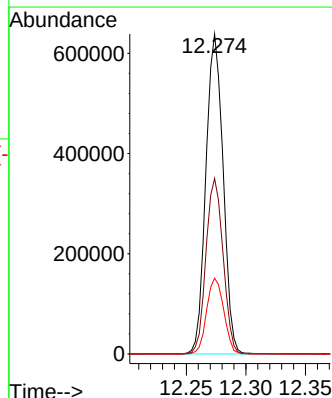
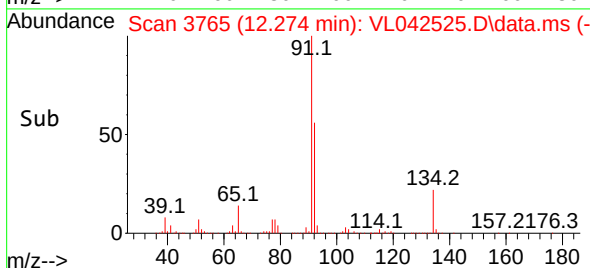
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

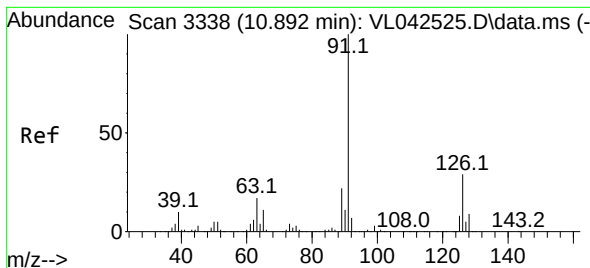


#70
n-Butylbenzene
Concen: 11.219 ppbv
RT: 12.274 min Scan# 3765
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57



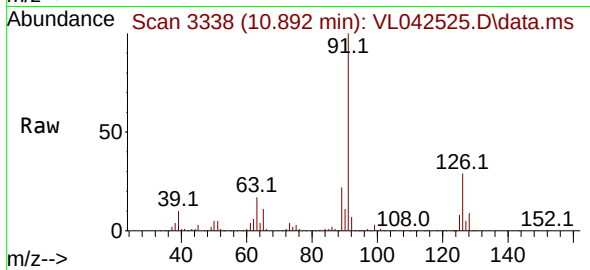
Tgt Ion: 91 Resp: 640472
Ion Ratio Lower Upper
91 100
92 54.6 43.7 65.5
134 23.6 18.9 28.3





#71
2-Chlorotoluene
Concen: 11.047 ppbv
RT: 10.892 min Scan# 3338
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

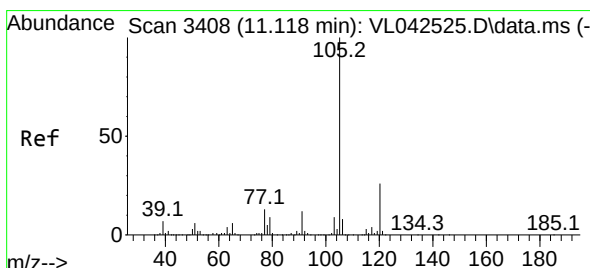
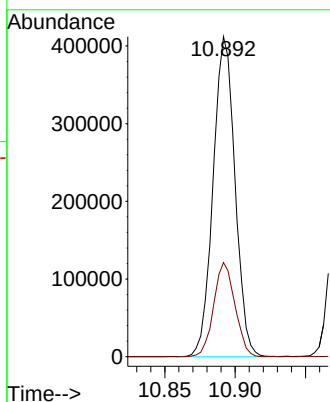
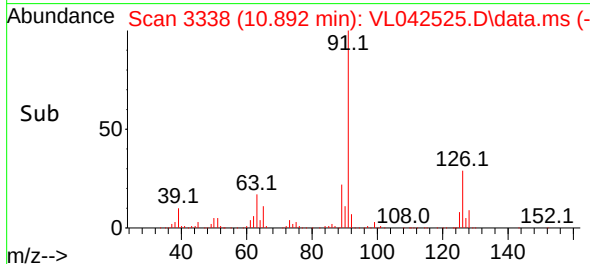
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



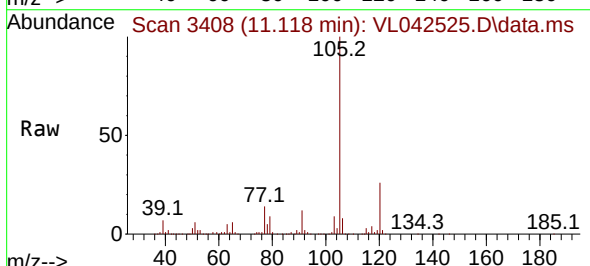
Tgt Ion: 91 Resp: 44646
Ion Ratio Lower Upper
91 100
126 28.5 11.4 45.6

Manual Integrations
APPROVED

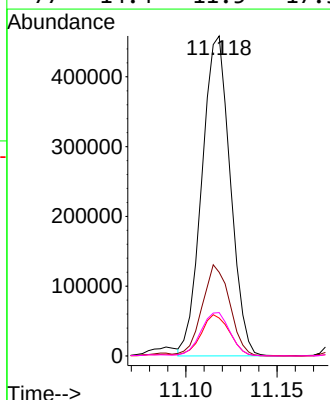
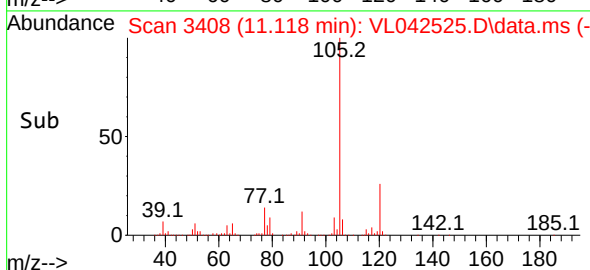
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

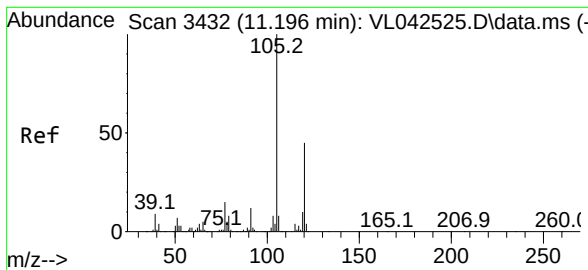


#72
4-Ethyltoluene
Concen: 11.285 ppbv
RT: 11.118 min Scan# 3408
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57



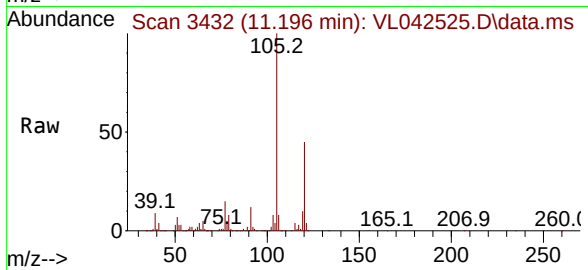
Tgt Ion:105 Resp: 496120
Ion Ratio Lower Upper
105 100
120 28.6 22.9 34.3
91 13.6 10.9 16.3
77 14.4 11.5 17.3





#73
1,3,5-Trimethylbenzene
Concen: 11.076 ppbv
RT: 11.196 min Scan# 3432
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

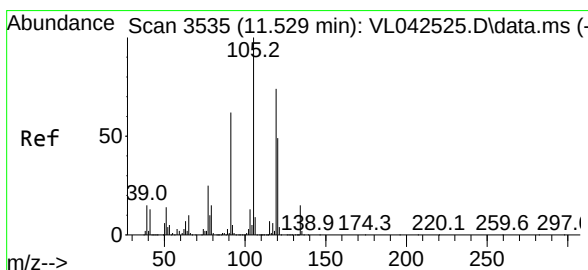
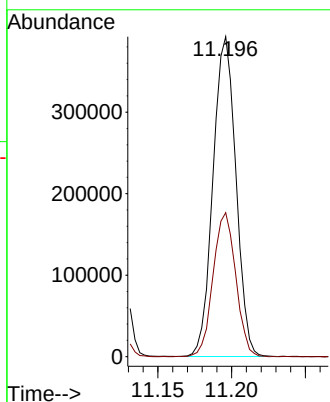
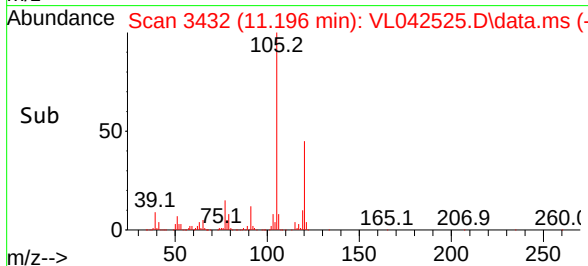
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



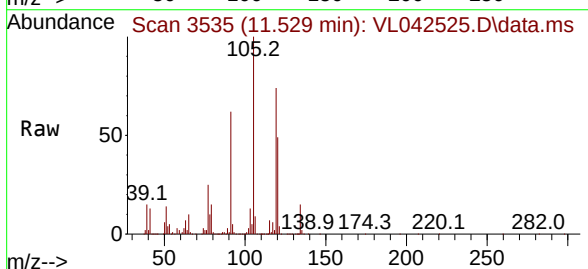
Tgt Ion:105 Resp: 424133
Ion Ratio Lower Upper
105 100
120 45.0 36.0 54.0

Manual Integrations
APPROVED

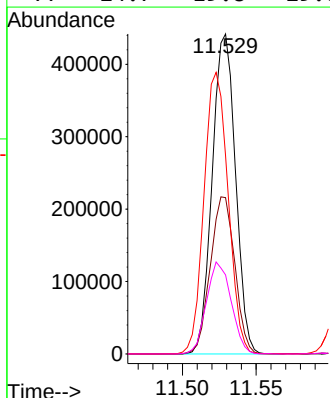
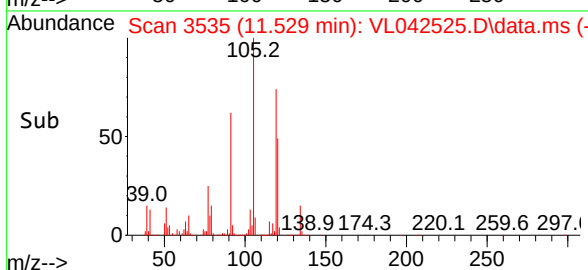
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

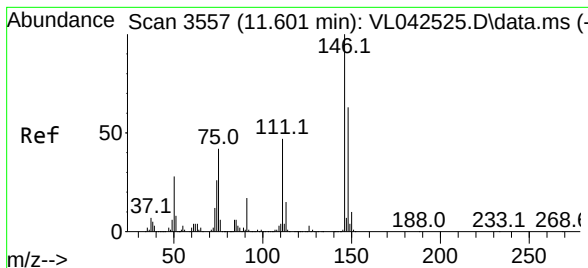


#74
1,2,4-Trimethylbenzene
Concen: 10.313 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57



Tgt Ion:105 Resp: 485862
Ion Ratio Lower Upper
105 100
120 48.8 39.0 58.6
91 61.8 49.4 74.2
77 24.7 19.8 29.6





#75

1,3-Dichlorobenzene

Concen: 9.681 ppbv

RT: 11.601 min Scan# 3557

Delta R.T. 0.000 min

Lab File: VL042525.D

Acq: 12 May 2025 08:57

Instrument :

MSVOA_L

ClientSampleId :

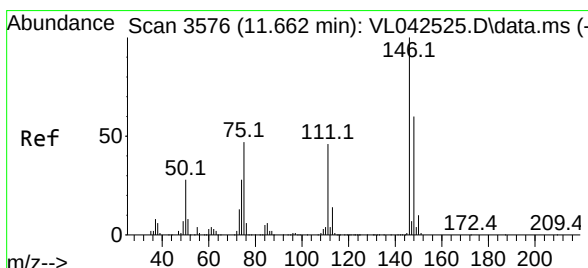
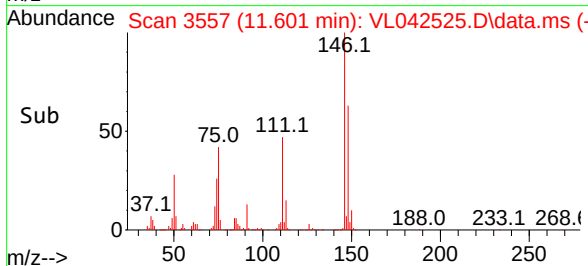
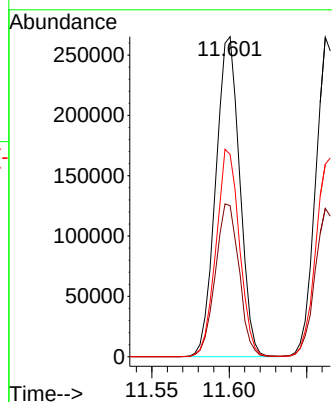
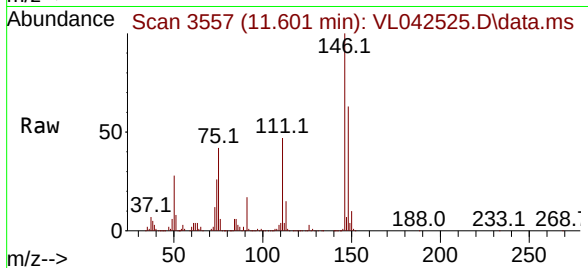
VSTDICCC010

Tgt Ion:	146	Resp:	285664
Ion Ratio	Lower	Upper	
146	100		
111	47.3	23.6	71.0
148	63.2	31.6	94.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#76

1,4-Dichlorobenzene

Concen: 9.936 ppbv

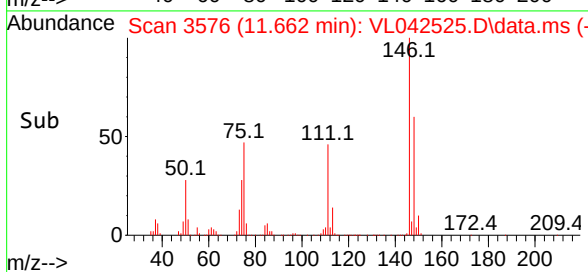
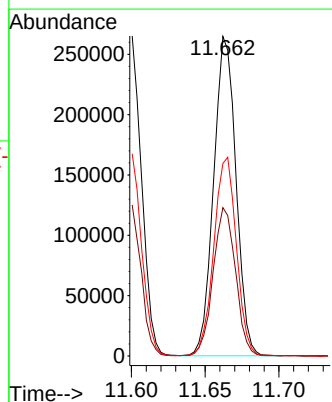
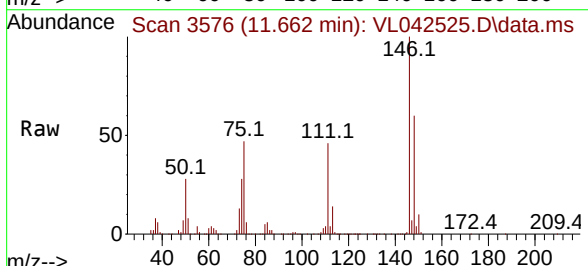
RT: 11.662 min Scan# 3576

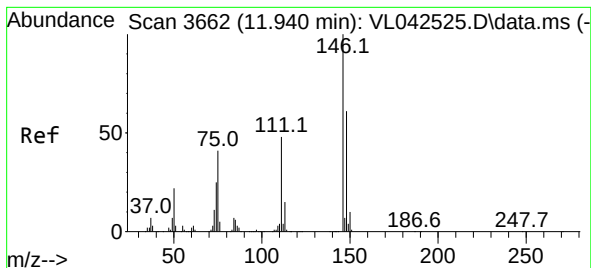
Delta R.T. 0.000 min

Lab File: VL042525.D

Acq: 12 May 2025 08:57

Tgt Ion:	146	Resp:	278935
Ion Ratio	Lower	Upper	
146	100		
111	46.9	23.4	70.3
148	63.1	31.6	94.7





#77

1,2-Dichlorobenzene

Concen: 8.976 ppbv

RT: 11.940 min Scan# 3662

Delta R.T. 0.000 min

Lab File: VL042525.D

Acq: 12 May 2025 08:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion:146 Resp: 273570

Ion Ratio Lower Upper

146 100

111 49.8 24.9 74.8

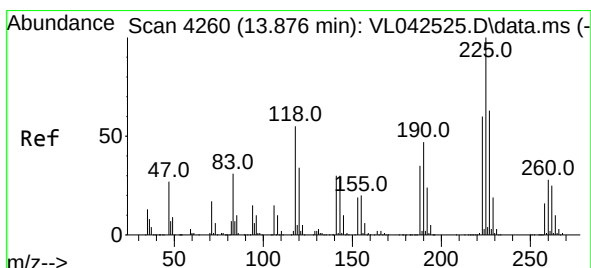
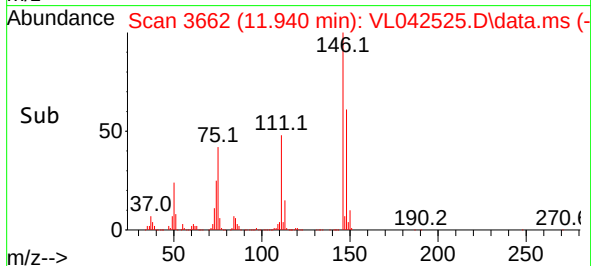
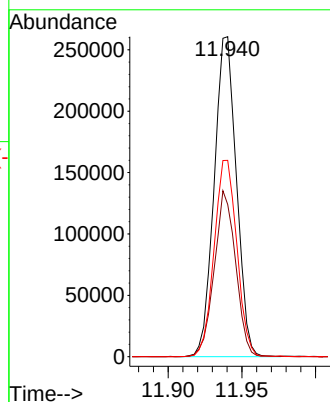
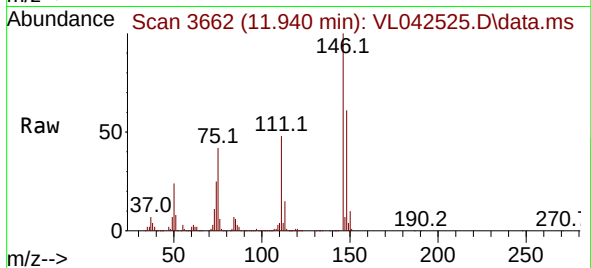
148 62.8 31.4 94.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025

Supervised By :Mahesh Dadoda 05/14/2025



#78

Hexachloro-1,3-Butadiene

Concen: 8.408 ppbv

RT: 13.876 min Scan# 4260

Delta R.T. 0.000 min

Lab File: VL042525.D

Acq: 12 May 2025 08:57

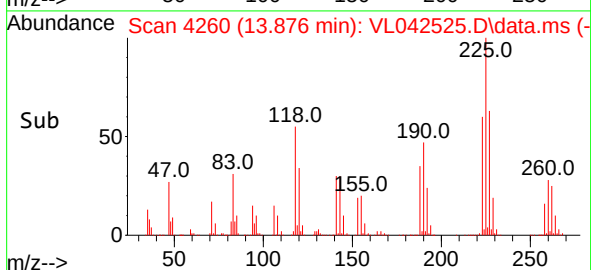
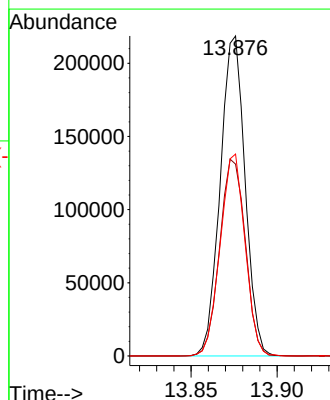
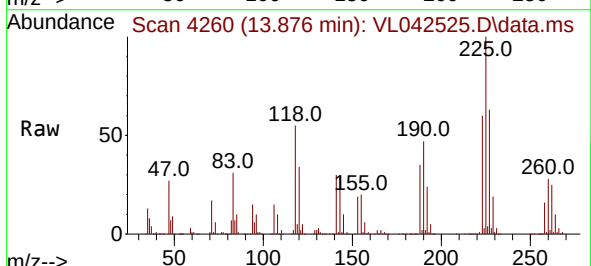
Tgt Ion:225 Resp: 219741

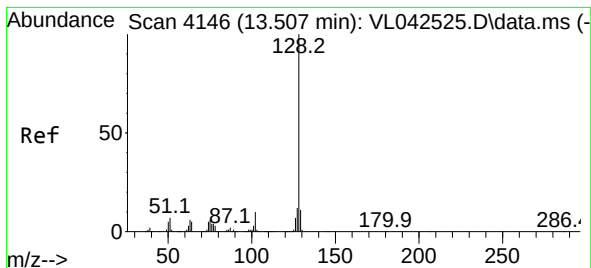
Ion Ratio Lower Upper

225 100

223 63.5 50.8 76.2

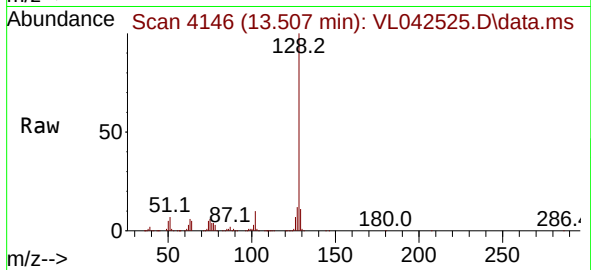
227 63.1 50.5 75.7





#79
Naphthalene
Concen: 12.661 ppbv
RT: 13.507 min Scan# 4146
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

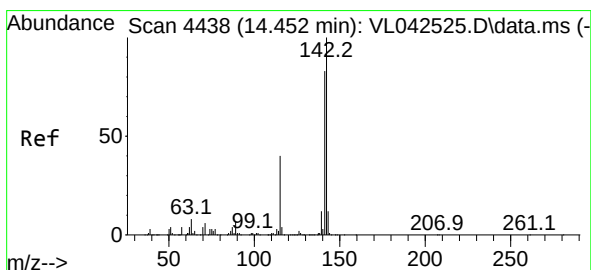
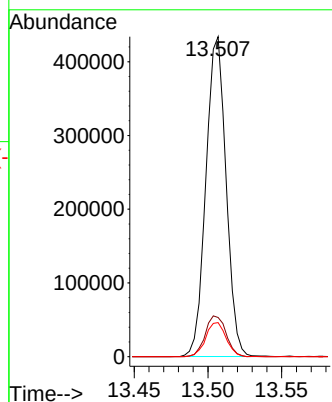
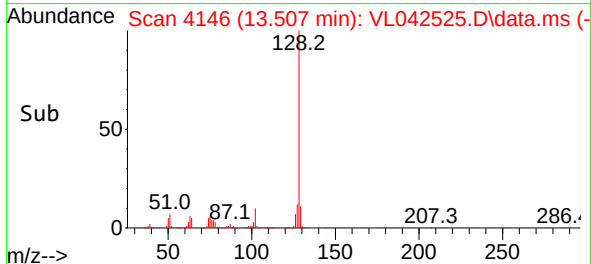
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



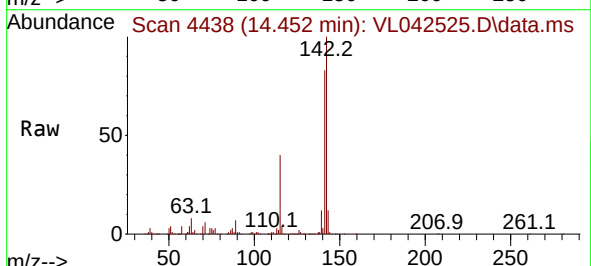
Tgt Ion:128 Resp: 41183
Ion Ratio Lower Upper
128 100
127 12.3 9.8 14.8
129 10.7 8.6 12.8

Manual Integrations
APPROVED

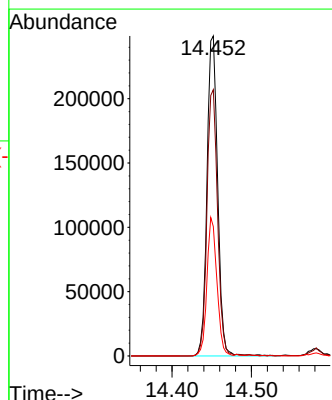
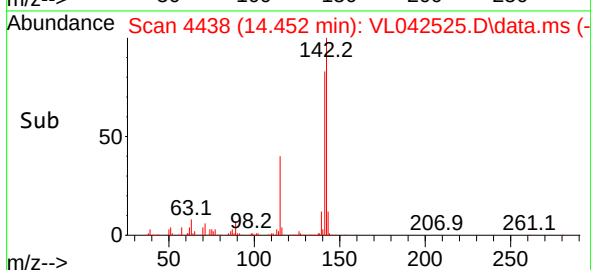
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

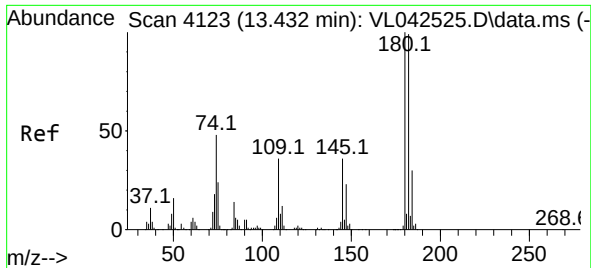


#80
Naphthalene,2-methyl-
Concen: 12.289 ppbv
RT: 14.452 min Scan# 4438
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57



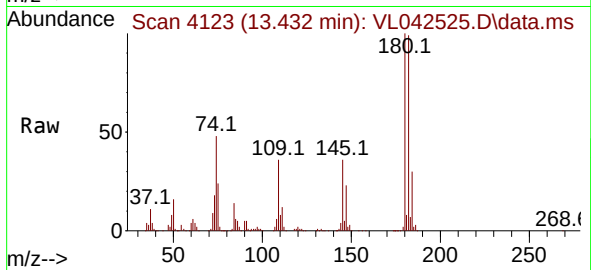
Tgt Ion:142 Resp: 232576
Ion Ratio Lower Upper
142 100
141 83.5 66.8 100.2
115 40.9 33.0 49.6





#81
 1,2,4-Trichlorobenzene
 Concen: 10.955 ppbv
 RT: 13.432 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL042525.D
 Acq: 12 May 2025 08:57

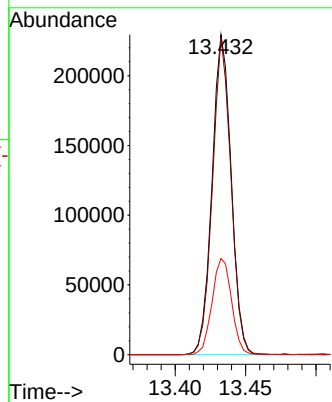
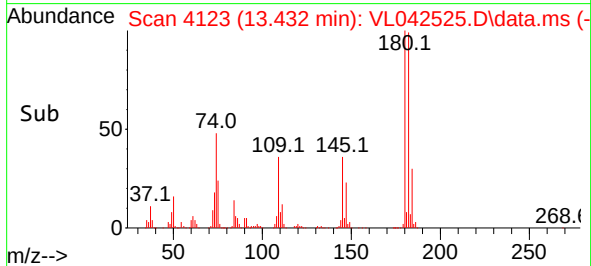
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



Tgt Ion:180 Resp: 21756
 Ion Ratio Lower Upper
 180 100
 182 95.9 76.6 114.8
 184 30.7 24.6 36.8

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051225\
 Data File : VL042527.D
 Acq On : 12 May 2025 10:07
 Operator : SY/MD
 Sample : VSTDIC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 05/14/2025
 Supervised By : Mahesh Dadoda 05/14/2025

Quant Time: May 12 23:47:06 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M

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

QLast Update : Mon May 12 23:42:45 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.781	49	109943	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	312995	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	265845	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.370 95 231970 10.029 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.492	85	17243	0.966	ppbv	93
3) Chlorodifluoromethane	1.470	51	18021	0.990	ppbv	99
4) Chloromethane	1.528	50	7338	1.007	ppbv	89
5) Vinyl Chloride	1.576	62	6995	0.938	ppbv	100
6) Bromomethane	1.664	94	3506	0.990	ppbv	95
7) Chloroethane	1.699	64	3333	1.136	ppbv #	86
8) Dichlorotetrafluoroethane	1.551	85	15232	0.992	ppbv	94
9) Propene	1.479	41	4688	1.186	ppbv #	1
10) Heptane	4.968	43	12679m	0.842	ppbv	
11) Trichlorofluoromethane	1.871	101	16718	0.974	ppbv	95
12) 1,1,2-Trichlorotrifluo...	2.133	101	13472	0.977	ppbv	100
13) Ethanol	1.719	45	1228m	1.138	ppbv	
14) Bromoethene	1.777	108	5081	1.010	ppbv #	98
15) Acetone	1.832	43	18790	1.070	ppbv	95
16) 1,3-Butadiene	1.606	39	7620	0.965	ppbv	100
17) tert-Butyl alcohol	2.039	59	16785	1.034	ppbv	95
18) 1,1-Dichloroethene	2.030	96	5957	0.985	ppbv	89
19) Isopropyl Alcohol	1.884	45	9238	0.968	ppbv #	95
20) Methylene Chloride	2.055	84	6343	1.037	ppbv	95
21) Allyl Chloride	2.091	41	12028	1.034	ppbv	100
22) trans-1,2-Dichloroethene	2.334	96	7150	1.011	ppbv	95
23) Vinyl Acetate	2.457	43	16789	0.913	ppbv #	90
24) 1,1-Dichloroethane	2.402	63	13728	1.003	ppbv	97
25) Ethyl Acetate	2.832	43	28045	0.909	ppbv	98
26) Hexane	2.819	57	11972	0.945	ppbv	95
27) Carbon Disulfide	2.146	76	16011	0.979	ppbv #	1
28) Methyl tert-Butyl Ether	2.437	73	6789	0.965	ppbv	93
29) Chloroform	2.842	83	26959	1.026	ppbv	87
30) Cyclohexane	3.845	84	8805m	0.847	ppbv	
31) cis-1,2-Dichloroethene	2.716	61	13267	0.928	ppbv	90
32) 1,1,1-Trichloroethane	3.360	97	25297	0.955	ppbv	96
34) 2-Butanone	2.554	43	20174	0.978	ppbv	100
35) Carbon Tetrachloride	3.755	117	27182	0.966	ppbv	96
36) Benzene	3.648	78	26465	0.954	ppbv	95
37) 1,2-Dichloroethane	3.208	62	20039	1.013	ppbv	98
38) Trichloroethene	4.541	130	11026m	0.930	ppbv	
39) 1,2-Dichloropropane	4.308	63	10363m	1.004	ppbv	
40) 1,4-Dioxane	4.596	88	3834m	0.931	ppbv	
41) Tetrahydrofuran	3.056	42	7944	0.893	ppbv	97
42) Bromodichloromethane	4.480	83	25549m	0.969	ppbv	
43) Methyl Methacrylate	4.875	69	8149m	0.880	ppbv	
44) 2,2,4-Trimethylpentane	4.632	57	41666m	0.956	ppbv	
45) t-1,3-Dichloropropene	6.399	75	10716m	0.906	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051225\
 Data File : VL042527.D
 Acq On : 12 May 2025 10:07
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025

Quant Time: May 12 23:47:06 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M

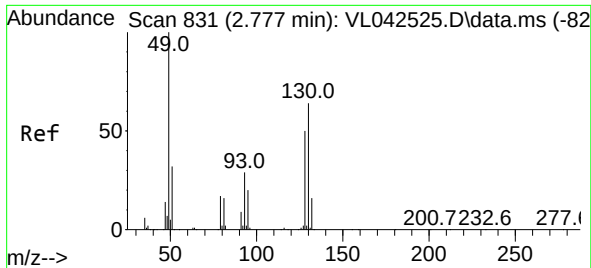
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Mon May 12 23:42:45 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.580	75	12616m	0.884	ppbv	
47) 1,1,2-Trichloroethane	6.580	97	11636m	0.957	ppbv	
48) Dibromochloromethane	7.377	129	19761	0.973	ppbv	97
49) Bromoform	9.474	173	15745	0.944	ppbv	98
50) 4-Methyl-2-Pentanone	5.752	43	21720m	0.898	ppbv	
51) 2-Hexanone	7.428	43	14649m	0.815	ppbv	
52) Tetrachloroethene	8.218	164	9912m	0.928	ppbv	
53) Toluene	6.923	91	22892m	0.841	ppbv	
54) 1,2-Dibromoethane	7.642	107	16971m	0.955	ppbv	
56) 1,1,1,2-Tetrachloroethane	8.914	131	16650	1.010	ppbv #	1
57) Chlorobenzene	8.914	112	25980	0.973	ppbv	94
58) Ethyl Benzene	9.348	91	28807m	0.795	ppbv	
59) m/p-Xylene	9.542	91	54644m	1.695	ppbv	
60) o-Xylene	9.956	91	26834	0.854	ppbv	95
61) Styrene	9.862	104	9259	0.800	ppbv	97
62) Isopropylbenzene	10.532	105	41504	0.877	ppbv	95
63) 1,1,2,2-Tetrachloroethane	9.956	83	23419	0.930	ppbv	99
64) n-propylbenzene	10.985	120	10433	0.870	ppbv	93
65) tert-Butylbenzene	11.526	119	38176	0.878	ppbv	96
66) Benzyl Chloride	11.607	91	4826	0.839	ppbv #	93
67) sec-Butylbenzene	11.762	105	56638	0.909	ppbv	97
69) p-Isopropyltoluene	11.921	119	44406	0.867	ppbv	96
70) n-Butylbenzene	12.277	91	41878	0.827	ppbv	97
71) 2-Chlorotoluene	10.898	91	30070	0.839	ppbv	98
72) 4-Ethyltoluene	11.121	105	33030	0.847	ppbv #	97
73) 1,3,5-Trimethylbenzene	11.199	105	29442	0.867	ppbv	100
74) 1,2,4-Trimethylbenzene	11.532	105	40544	0.970	ppbv	91
75) 1,3-Dichlorobenzene	11.600	146	26018	0.994	ppbv	97
76) 1,4-Dichlorobenzene	11.665	146	23564	0.947	ppbv	98
77) 1,2-Dichlorobenzene	11.940	146	26975	0.998	ppbv	98
78) Hexachloro-1,3-Butadiene	13.879	225	23824	1.028	ppbv	98
79) Naphthalene	13.510	128	24409	0.846	ppbv #	95
80) Naphthalene,2-methyl-	14.455	142	9088	0.541	ppbv	97
81) 1,2,4-Trichlorobenzene	13.436	180	14600	0.829	ppbv	96

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



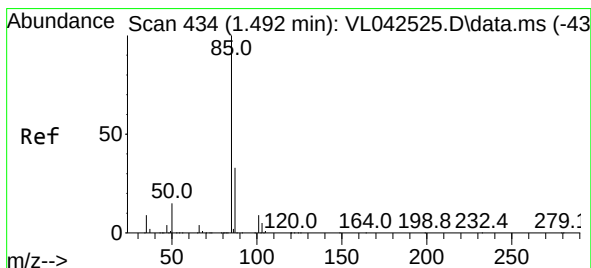
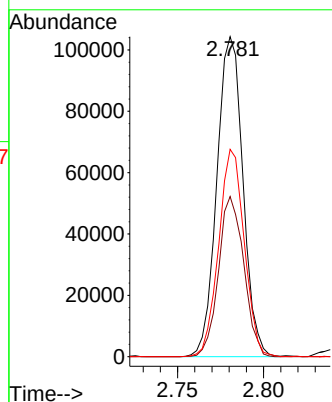
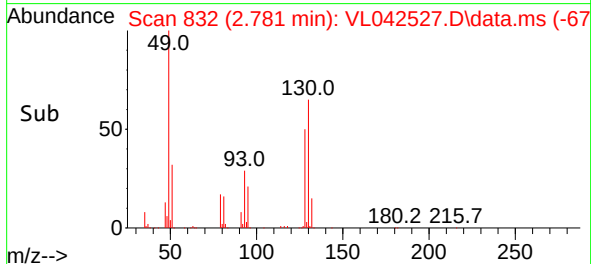
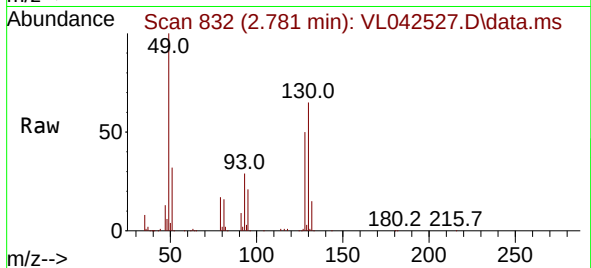
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Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 49 Resp: 10994
Ion Ratio Lower Upper
49 100
128 48.5 24.9 74.6
130 63.6 32.5 97.5

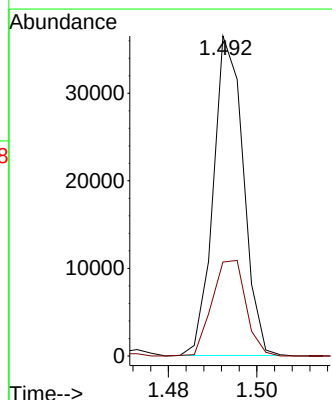
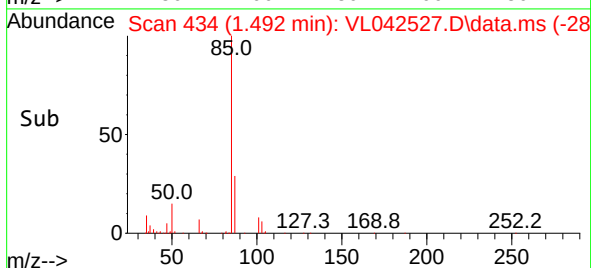
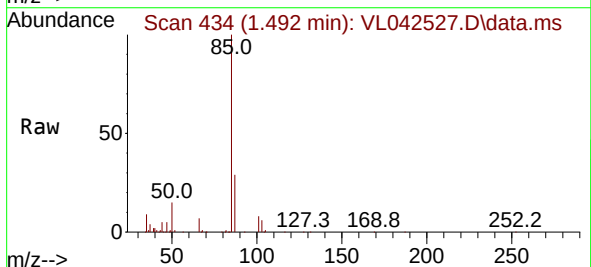
Manual Integrations
APPROVED

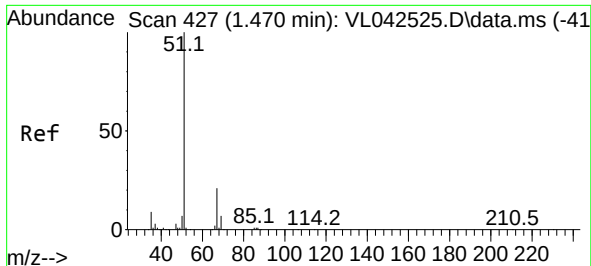
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#2
Dichlorodifluoromethane
Concen: 0.966 ppbv
RT: 1.492 min Scan# 434
Delta R.T. -0.000 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

Tgt Ion: 85 Resp: 17243
Ion Ratio Lower Upper
85 100
87 29.4 26.8 40.2





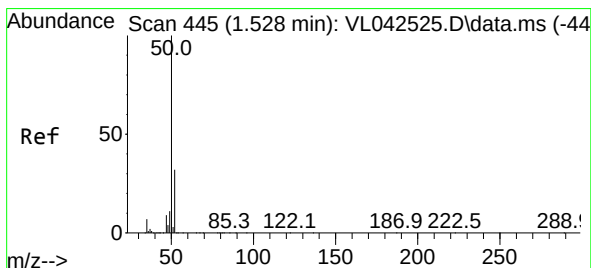
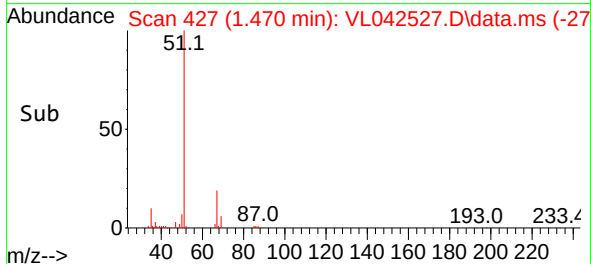
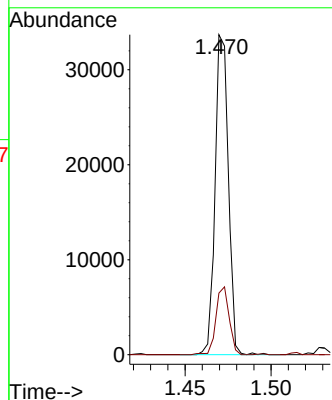
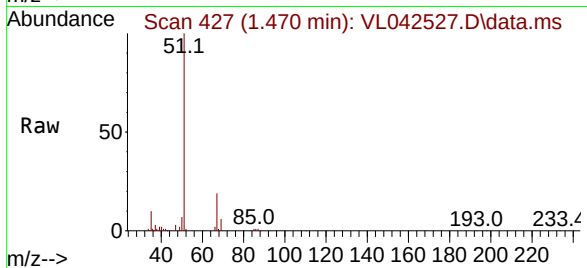
#3
Chlorodifluoromethane
Concen: 0.990 ppbv
RT: 1.470 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 51 Resp: 1802
Ion Ratio Lower Upper
51 100
67 21.2 17.4 26.0

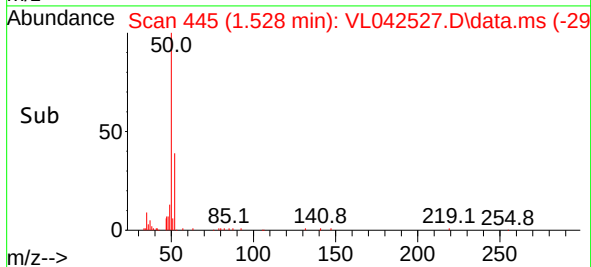
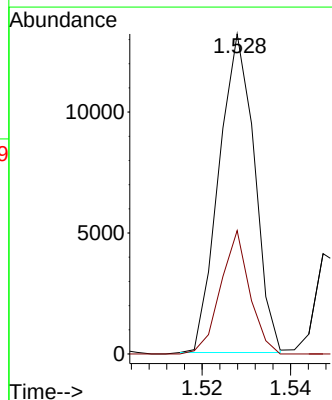
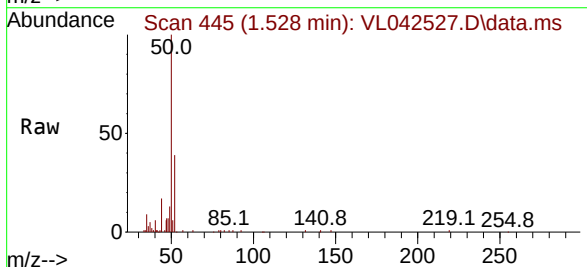
Manual Integrations
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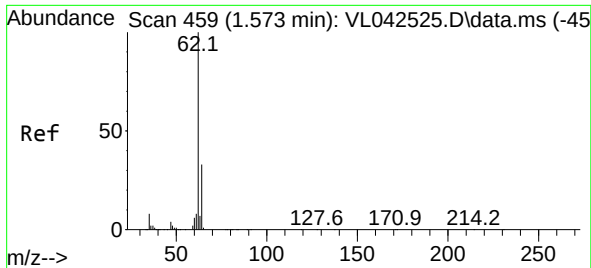
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#4
Chloromethane
Concen: 1.007 ppbv
RT: 1.528 min Scan# 445
Delta R.T. -0.000 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

Tgt Ion: 50 Resp: 7338
Ion Ratio Lower Upper
50 100
52 38.7 25.9 38.9





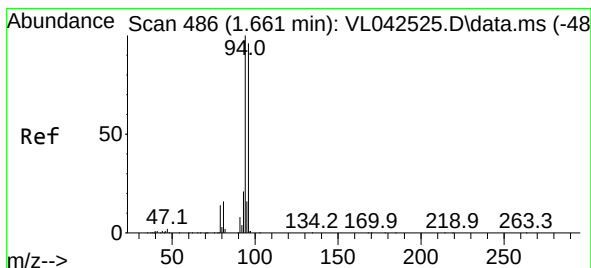
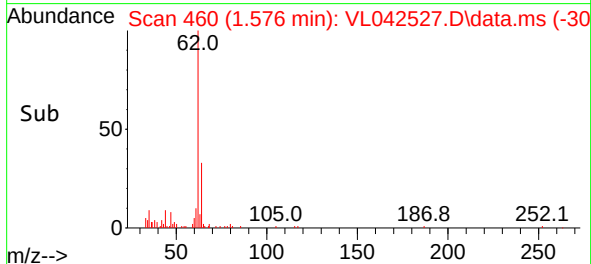
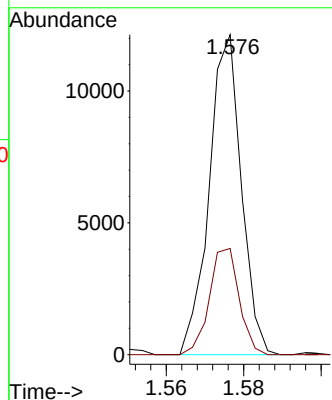
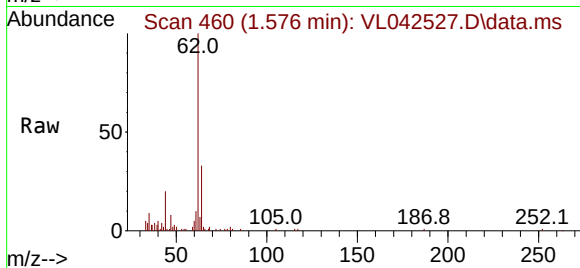
#5
 Vinyl Chloride
 Concen: 0.938 ppbv
 RT: 1.576 min Scan# 459
 Delta R.T. 0.003 min
 Lab File: VL042527.D
 Acq: 12 May 2025 10:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tgt Ion: 62 Resp: 6998
 Ion Ratio Lower Upper
 62 100
 64 33.2 26.5 39.7

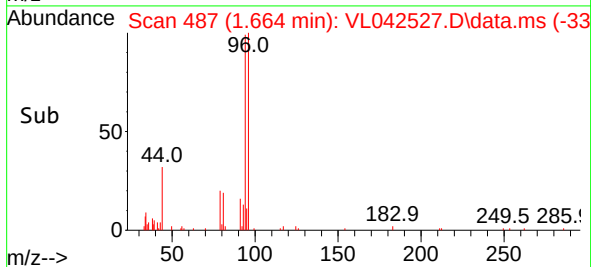
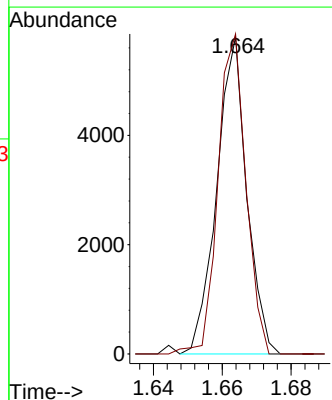
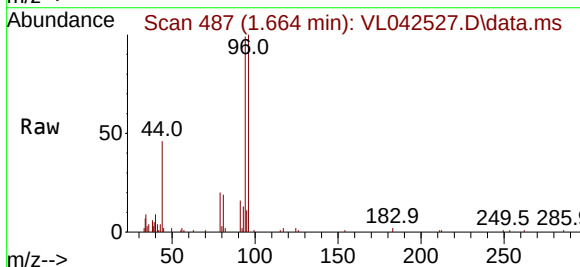
Manual Integrations
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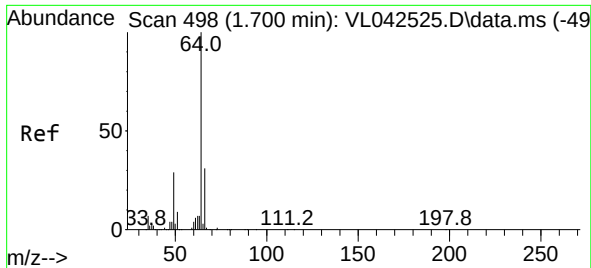
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025



#6
 Bromomethane
 Concen: 0.990 ppbv
 RT: 1.664 min Scan# 487
 Delta R.T. 0.003 min
 Lab File: VL042527.D
 Acq: 12 May 2025 10:07

Tgt Ion: 94 Resp: 3506
 Ion Ratio Lower Upper
 94 100
 96 100.9 76.9 115.3





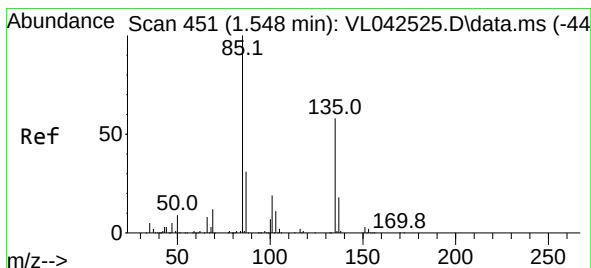
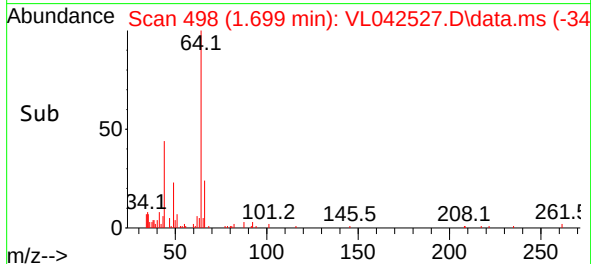
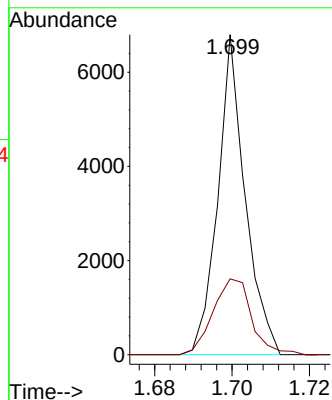
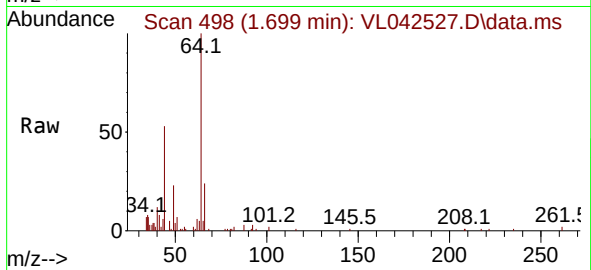
#7
Chloroethane
Concen: 1.136 ppbv
RT: 1.699 min Scan# 498
Delta R.T. -0.000 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 64 Resp: 333
Ion Ratio Lower Upper
64 100
66 23.7 25.1 37.7

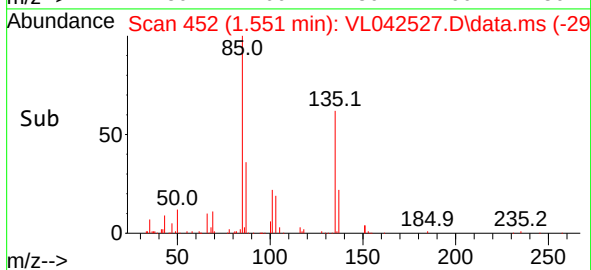
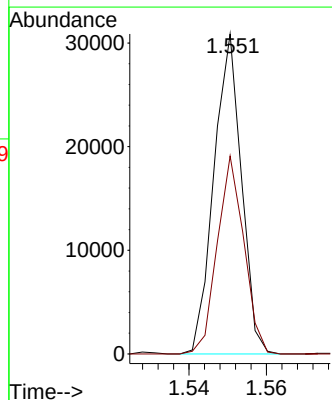
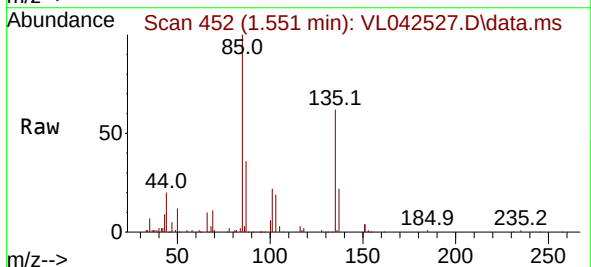
Manual Integrations
APPROVED

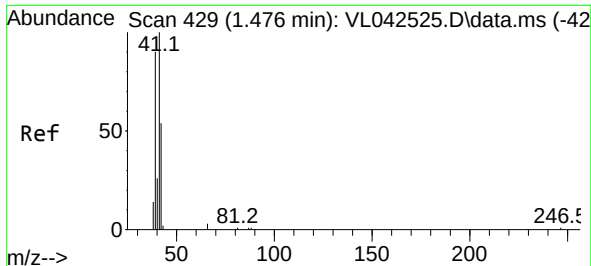
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#8
Dichlorotetrafluoroethane
Concen: 0.992 ppbv
RT: 1.551 min Scan# 452
Delta R.T. 0.003 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

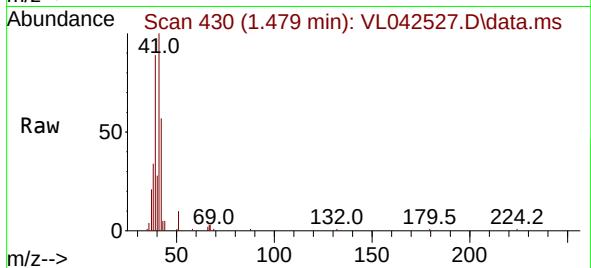
Tgt Ion: 85 Resp: 15232
Ion Ratio Lower Upper
85 100
135 60.0 51.8 77.8





#9
Propene
Concen: 1.186 ppbv
RT: 1.479 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

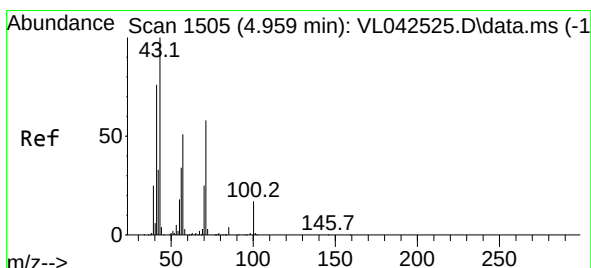
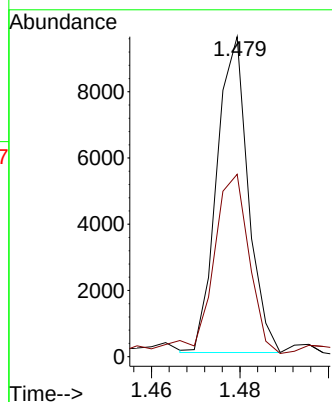
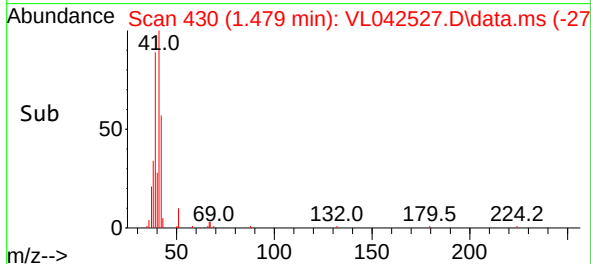
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



Tgt Ion: 41 Resp: 4688
Ion Ratio Lower Upper
41 100
42 78.8 4.1 6.1

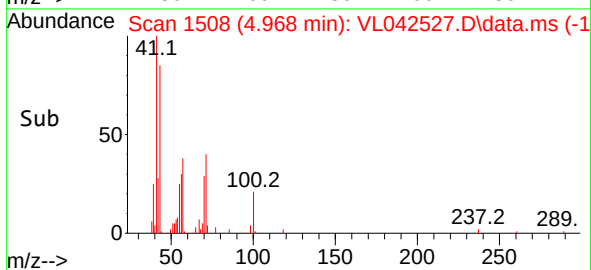
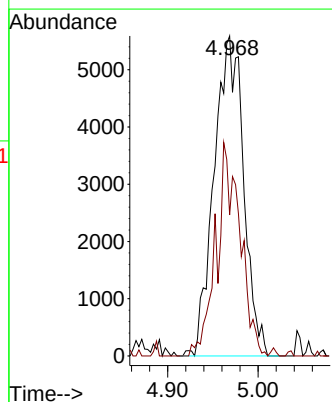
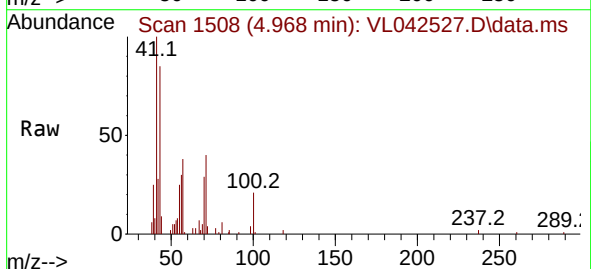
Manual Integrations
APPROVED

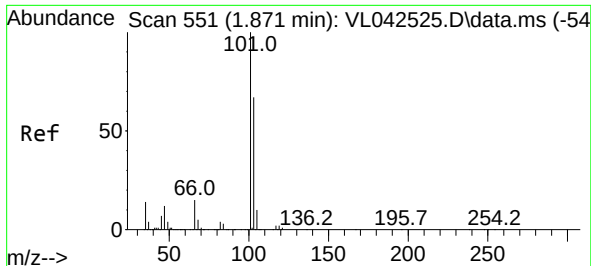
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#10
Heptane
Concen: 0.842 ppbv m
RT: 4.968 min Scan# 1508
Delta R.T. 0.010 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

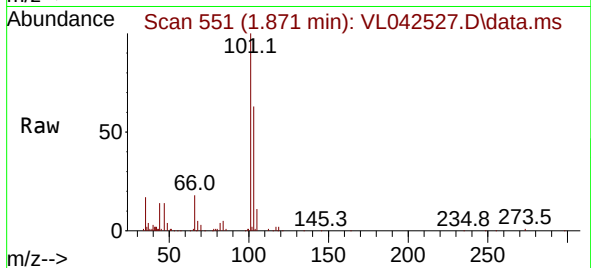
Tgt Ion: 43 Resp: 12679
Ion Ratio Lower Upper
43 100
57 54.4 42.1 63.1





#11
 Trichlorofluoromethane
 Concen: 0.974 ppbv
 RT: 1.871 min Scan# 551
 Delta R.T. -0.000 min
 Lab File: VL042527.D
 Acq: 12 May 2025 10:07

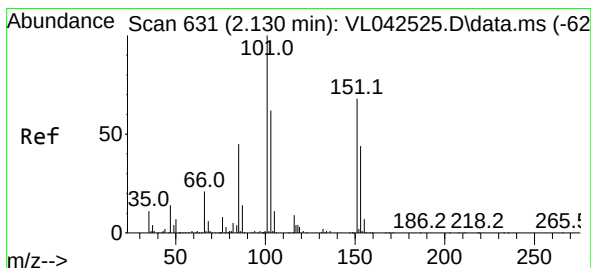
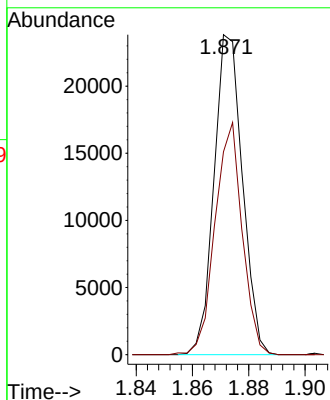
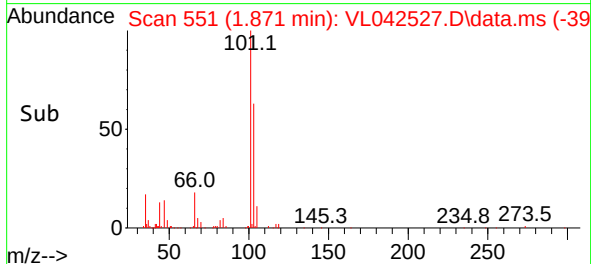
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



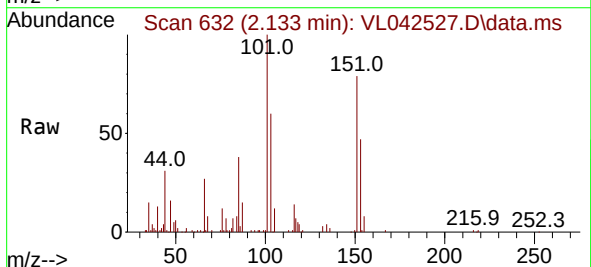
Tgt Ion:101 Resp: 16718
 Ion Ratio Lower Upper
 101 100
 103 63.4 53.8 80.6

Manual Integrations
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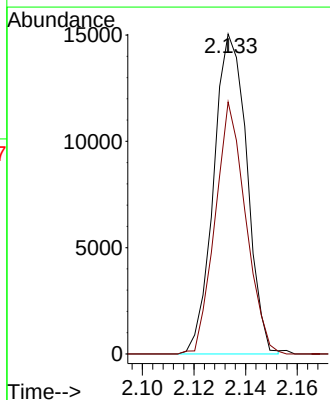
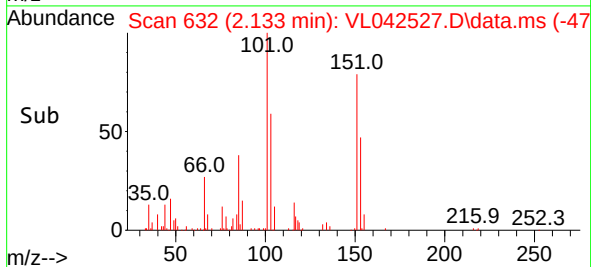
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025

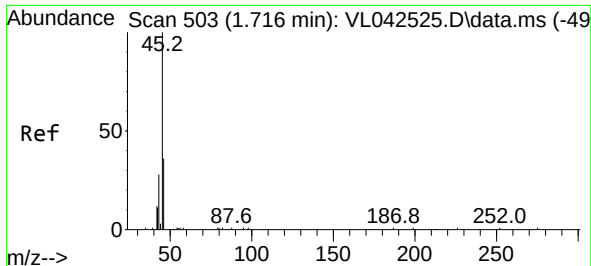


#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.977 ppbv
 RT: 2.133 min Scan# 632
 Delta R.T. 0.003 min
 Lab File: VL042527.D
 Acq: 12 May 2025 10:07



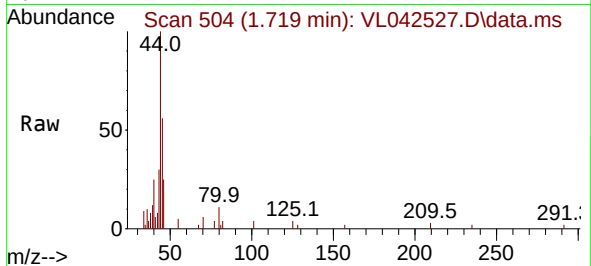
Tgt Ion:101 Resp: 13472
 Ion Ratio Lower Upper
 101 100
 151 72.4 57.8 86.8





#13
Ethanol
Concen: 1.138 ppbv m
RT: 1.719 min Scan# 503
Delta R.T. 0.003 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

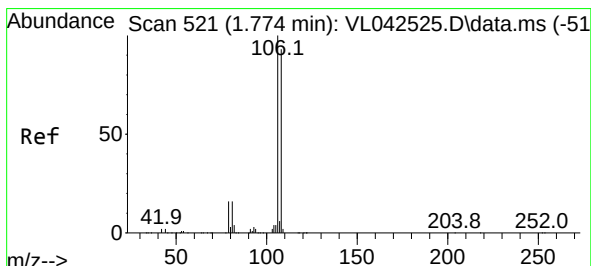
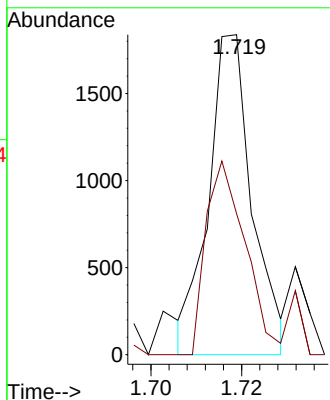
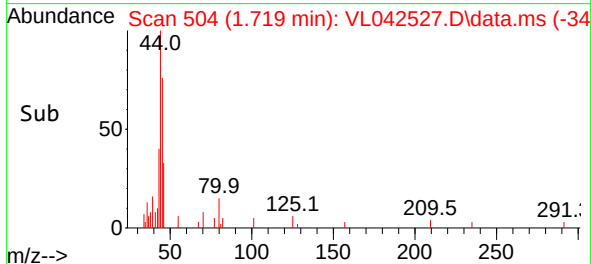
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



Tgt Ion: 45 Resp: 1228
Ion Ratio Lower Upper
45 100
46 61.6 14.8 59.4

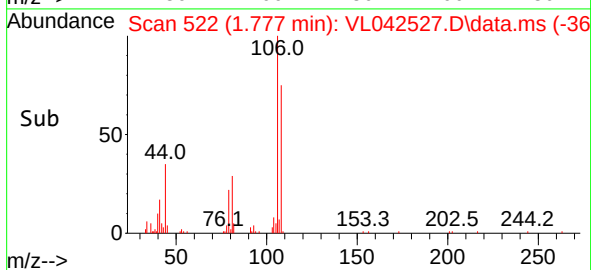
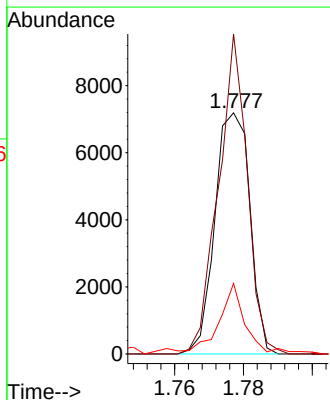
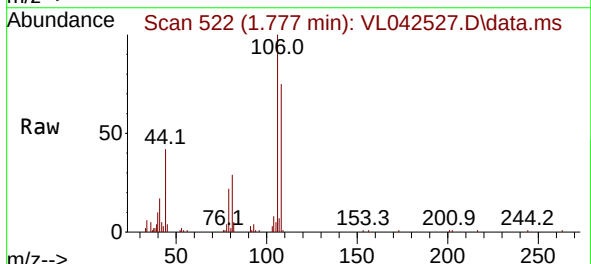
Manual Integrations
APPROVED

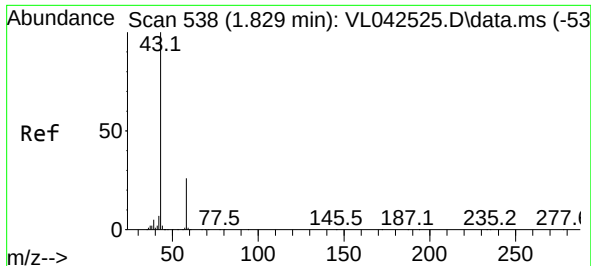
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#14
Bromoethene
Concen: 1.010 ppbv
RT: 1.777 min Scan# 522
Delta R.T. 0.003 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

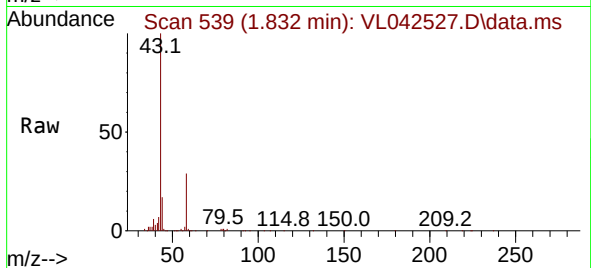
Tgt Ion:108 Resp: 5081
Ion Ratio Lower Upper
108 100
106 109.3 87.4 131.2
79 25.5 15.1 22.7





#15
Acetone
Concen: 1.070 ppbv
RT: 1.832 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

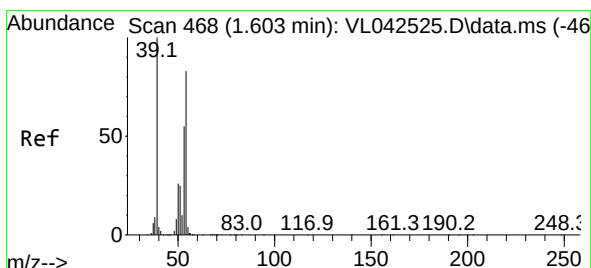
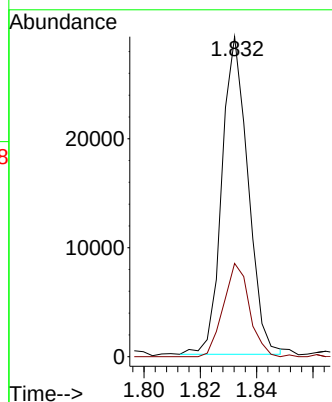
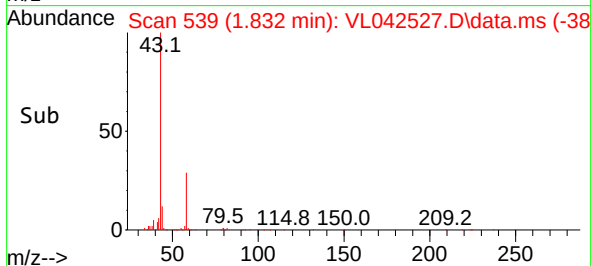
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



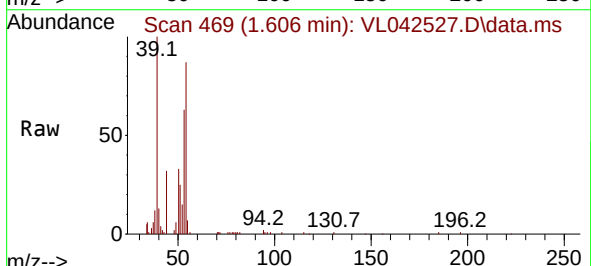
Tgt Ion: 43 Resp: 18790
Ion Ratio Lower Upper
43 100
58 29.3 21.3 31.9

Manual Integrations
APPROVED

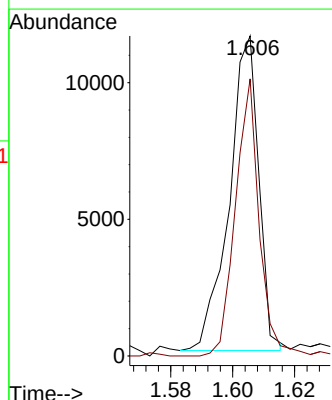
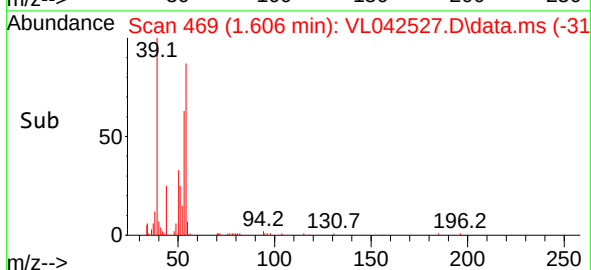
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

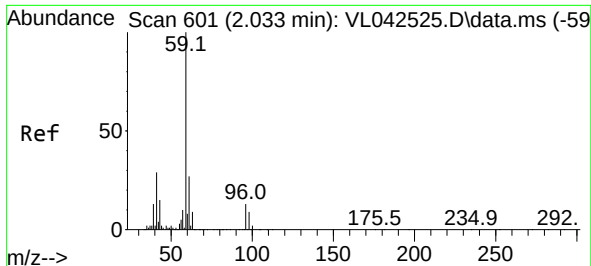


#16
1,3-Butadiene
Concen: 0.965 ppbv
RT: 1.606 min Scan# 469
Delta R.T. 0.003 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07



Tgt Ion: 39 Resp: 7620
Ion Ratio Lower Upper
39 100
54 72.2 57.8 86.6





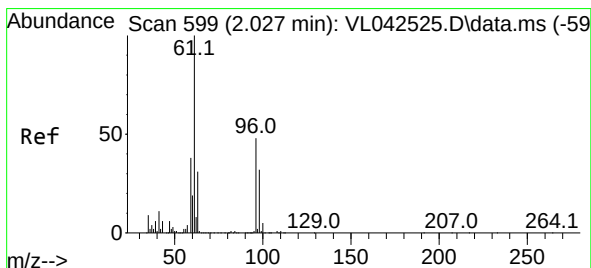
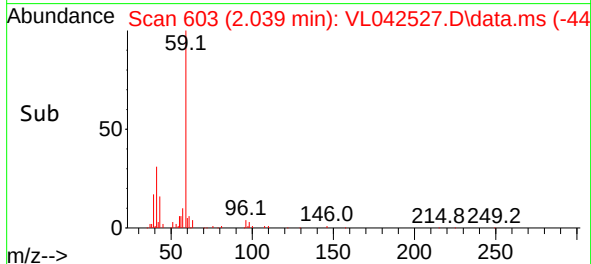
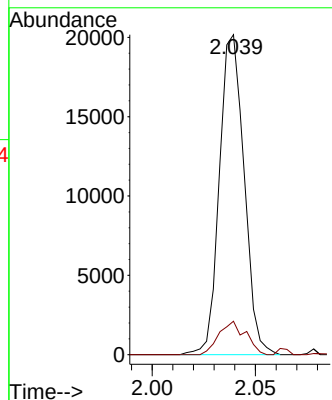
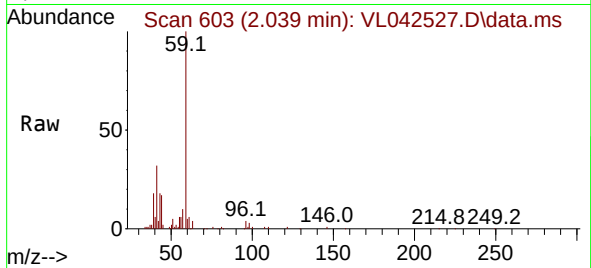
#17
tert-Butyl alcohol
Concen: 1.034 ppbv
RT: 2.039 min Scan# 601
Delta R.T. 0.006 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

Tgt Ion: 59 Resp: 1678
Ion Ratio Lower Upper
59 100
57 12.1 8.2 12.4

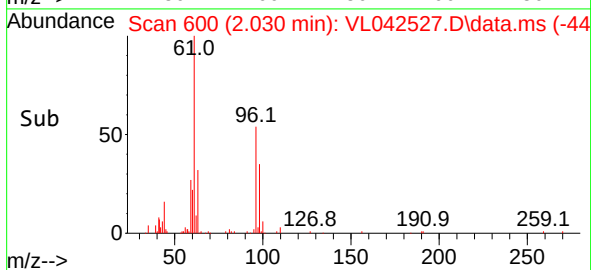
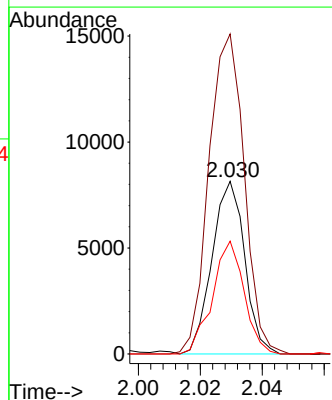
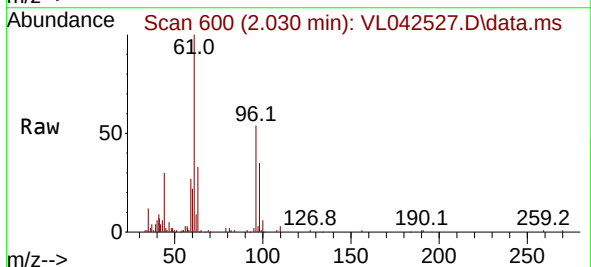
Manual Integrations
APPROVED

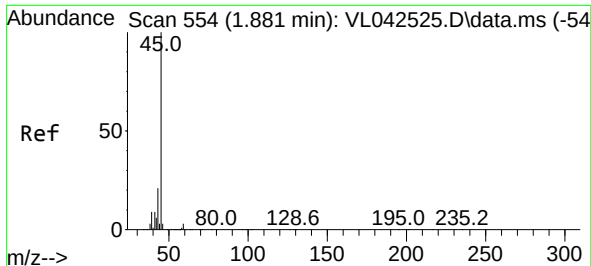
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#18
1,1-Dichloroethene
Concen: 0.985 ppbv
RT: 2.030 min Scan# 600
Delta R.T. 0.003 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

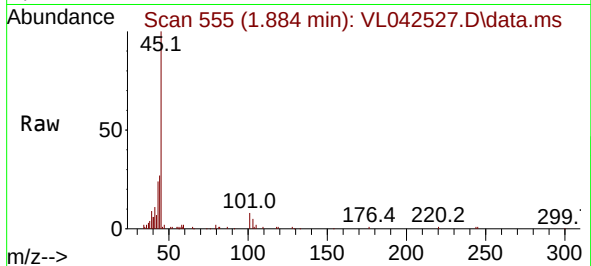
Tgt Ion: 96 Resp: 5957
Ion Ratio Lower Upper
96 100
61 184.1 165.0 247.4
98 65.3 52.6 79.0





#19
Isopropyl Alcohol
Concen: 0.968 ppbv
RT: 1.884 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

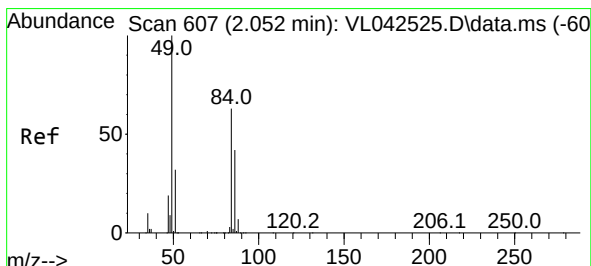
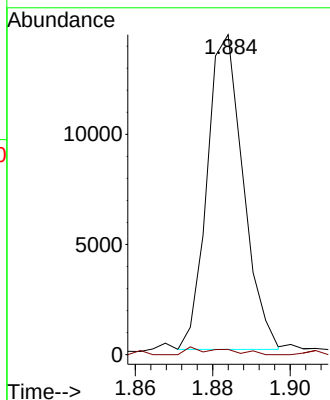
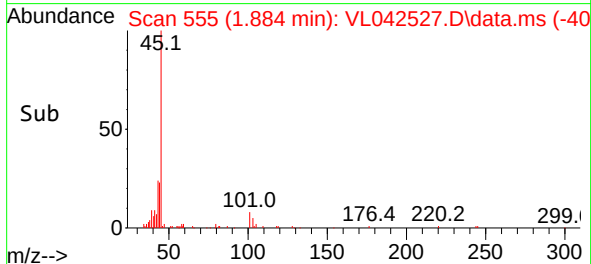
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



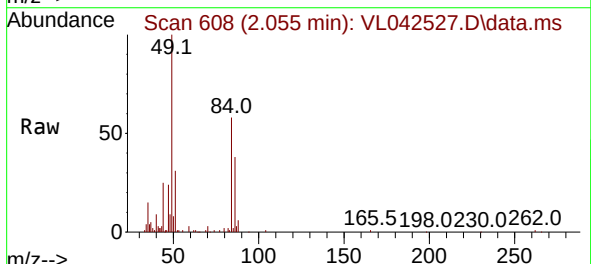
Tgt Ion: 45 Resp: 9238
Ion Ratio Lower Upper
45 100
58 0.0 1.5 2.3

Manual Integrations
APPROVED

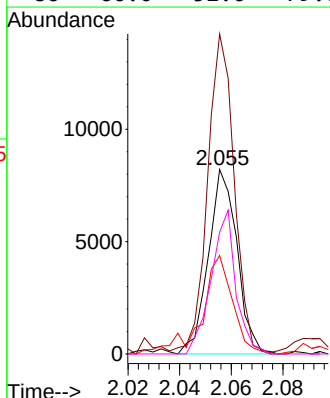
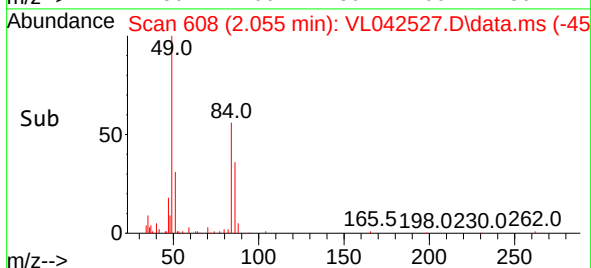
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

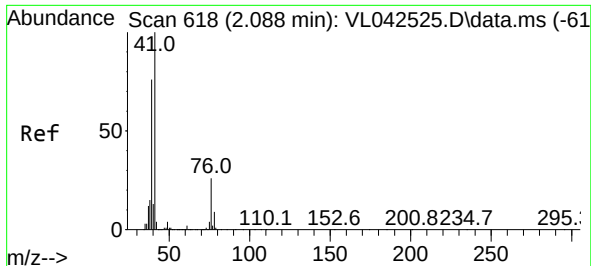


#20
Methylene Chloride
Concen: 1.037 ppbv
RT: 2.055 min Scan# 608
Delta R.T. 0.003 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07



Tgt Ion: 84 Resp: 6343
Ion Ratio Lower Upper
84 100
49 171.7 128.2 192.4
51 52.3 41.7 62.5
86 66.0 52.6 79.0





#21

Allyl Chloride

Concen: 1.034 ppbv

RT: 2.091 min Scan# 618

Delta R.T. 0.003 min

Lab File: VL042527.D

Acq: 12 May 2025 10:07

Instrument :

MSVOA_L

ClientSampleId :

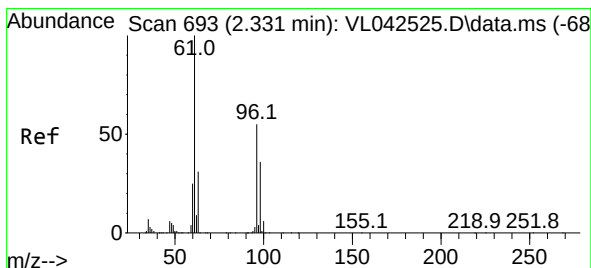
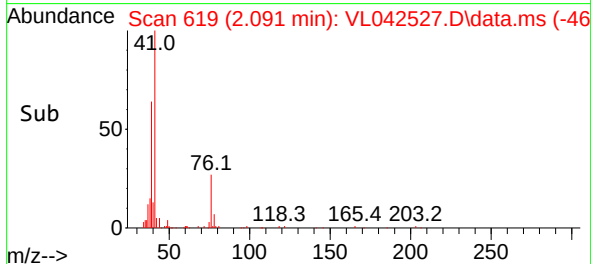
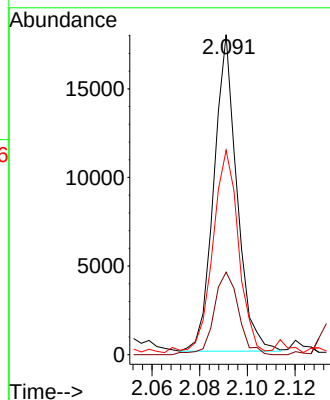
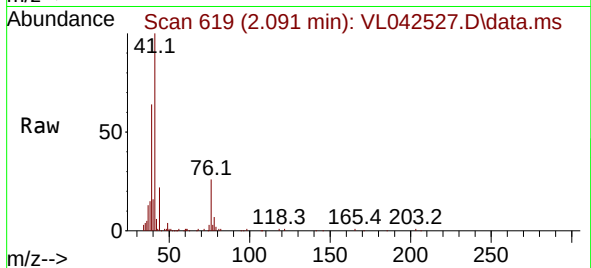
VSTDIC001

Tgt Ion:	41	Resp:	12028
Ion Ratio	Lower	Upper	
41	100		
76	27.5	22.0	33.0
39	74.6	59.5	89.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#22

trans-1,2-Dichloroethene

Concen: 1.011 ppbv

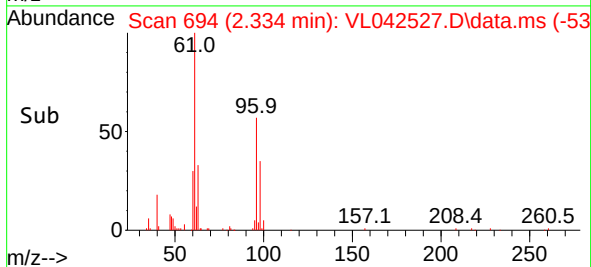
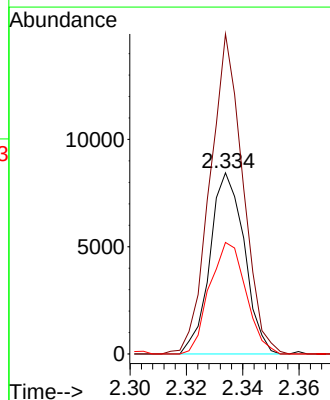
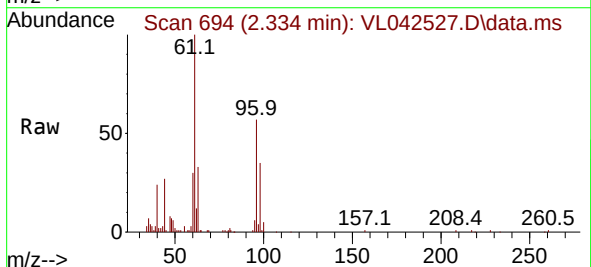
RT: 2.334 min Scan# 694

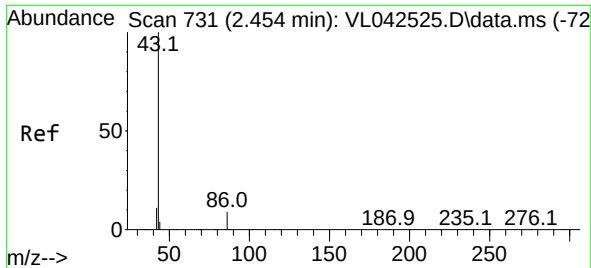
Delta R.T. 0.003 min

Lab File: VL042527.D

Acq: 12 May 2025 10:07

Tgt Ion:	96	Resp:	7150
Ion Ratio	Lower	Upper	
96	100		
61	175.3	145.9	218.9
98	61.6	52.2	78.4





#23
 Vinyl Acetate
 Concen: 0.913 ppbv
 RT: 2.457 min Scan# 715
 Delta R.T. 0.003 min
 Lab File: VL042527.D
 Acq: 12 May 2025 10:07

Instrument :

MSVOA_L

ClientSampleId :

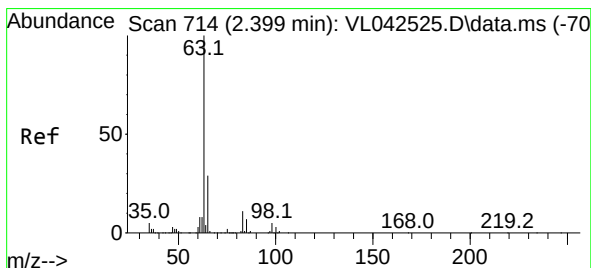
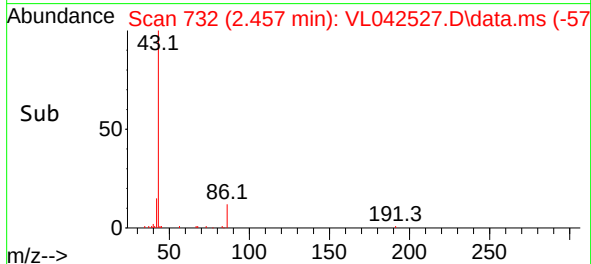
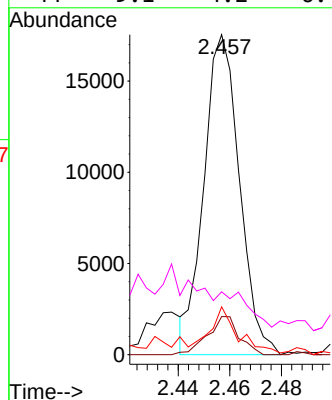
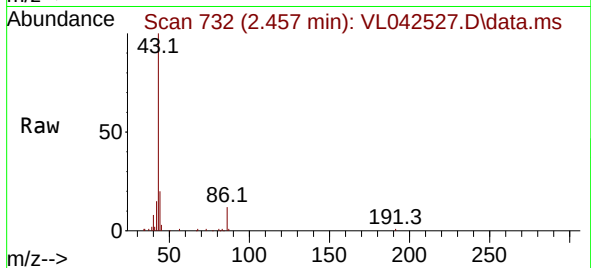
VSTDIC001

Tgt Ion: 43 Resp: 16789
 Ion Ratio Lower Upper
 43 100
 86 11.9 6.8 10.2
 42 14.4 8.8 13.2
 44 9.1 4.2 6.4

Manual Integrations

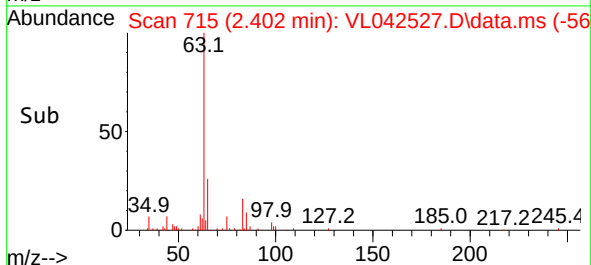
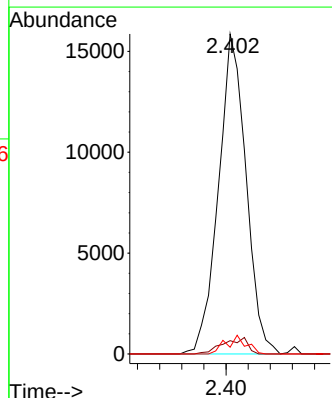
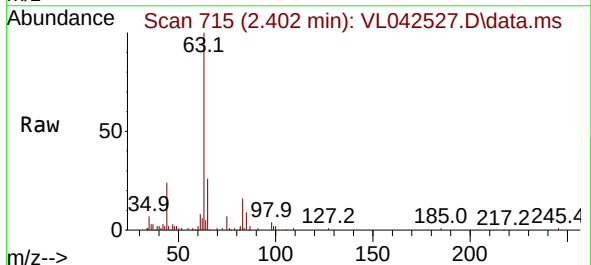
APPROVED

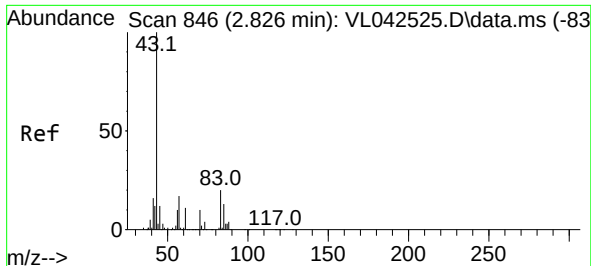
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025



#24
 1,1-Dichloroethane
 Concen: 1.003 ppbv
 RT: 2.402 min Scan# 715
 Delta R.T. 0.003 min
 Lab File: VL042527.D
 Acq: 12 May 2025 10:07

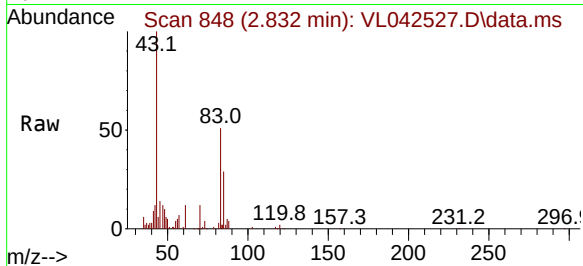
Tgt Ion: 63 Resp: 13728
 Ion Ratio Lower Upper
 63 100
 98 4.2 2.6 8.0
 100 2.1 1.4 4.2





#25
Ethyl Acetate
Concen: 0.909 ppbv
RT: 2.832 min Scan# 844
Delta R.T. 0.006 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

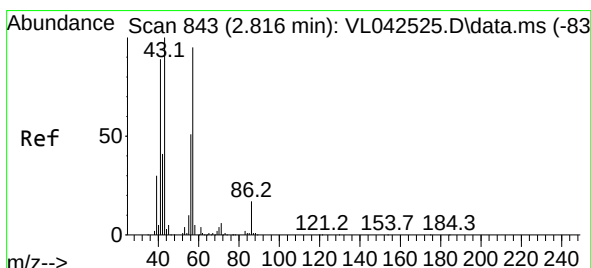
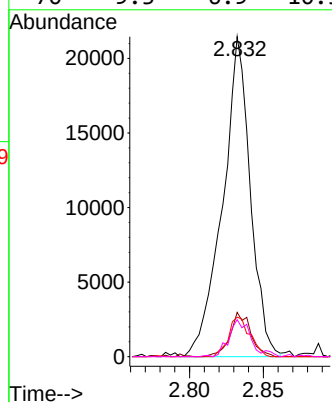
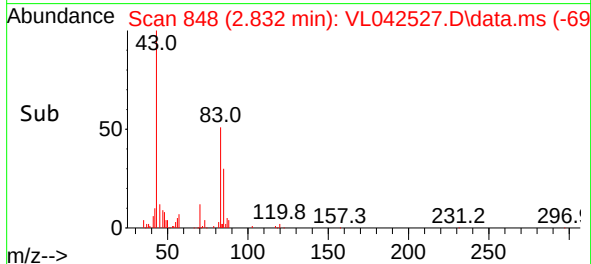
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



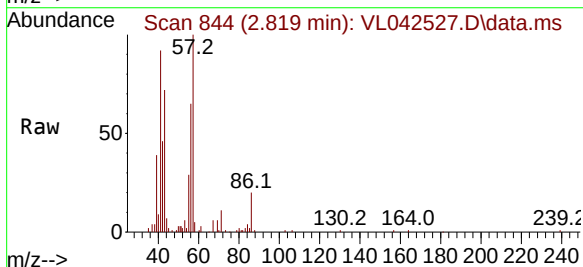
Tgt Ion:	43	Resp:	2804
Ion Ratio	100	Lower	Upper
45	10.7	7.9	11.9
61	9.6	7.1	10.7
70	9.3	6.9	10.3

Manual Integrations
APPROVED

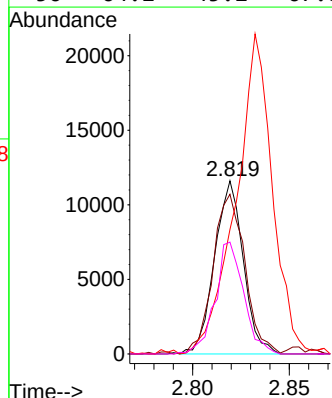
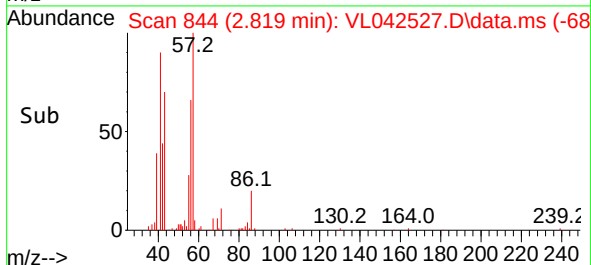
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

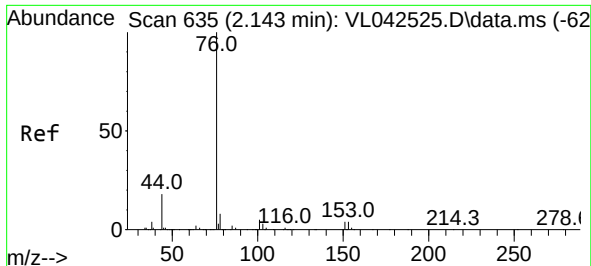


#26
Hexane
Concen: 0.945 ppbv
RT: 2.819 min Scan# 844
Delta R.T. 0.003 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07



Tgt Ion:	57	Resp:	11972
Ion Ratio	100	Lower	Upper
41	106.2	76.1	114.1
43	236.9	188.9	283.3
56	64.2	45.2	67.8





#27

Carbon Disulfide

Concen: 0.979 ppbv

RT: 2.146 min Scan# 61

Delta R.T. 0.003 min

Lab File: VL042527.D

Acq: 12 May 2025 10:07

Instrument :

MSVOA_L

ClientSampleId :

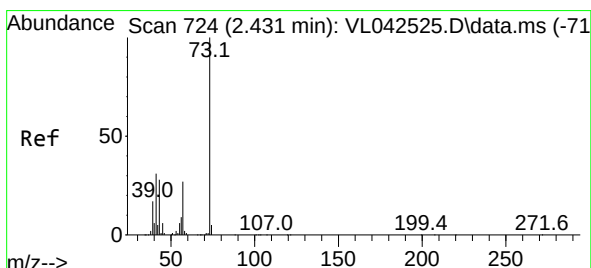
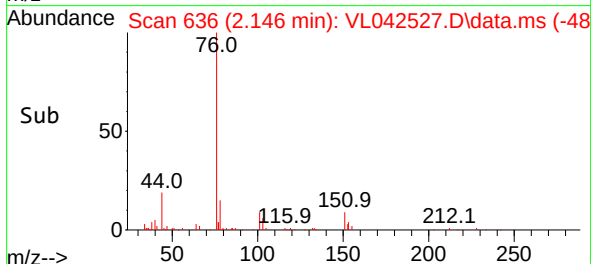
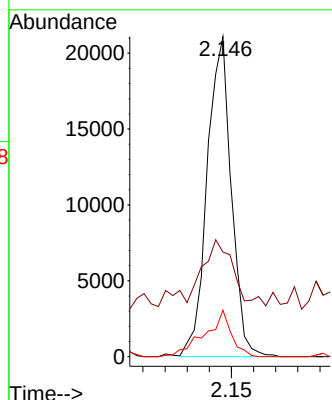
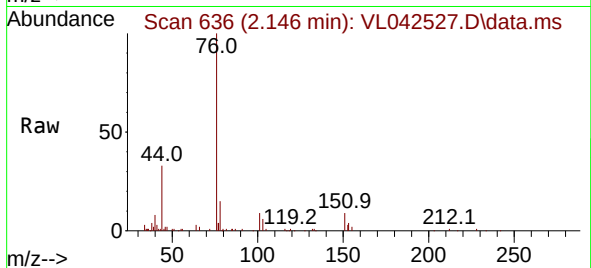
VSTDICC001

Tgt Ion: 76	Resp: 1601
Ion Ratio	Lower Upper
76	100
44	90.3 17.1 25.7
78	15.9 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#28

Methyl tert-Butyl Ether

Concen: 0.965 ppbv

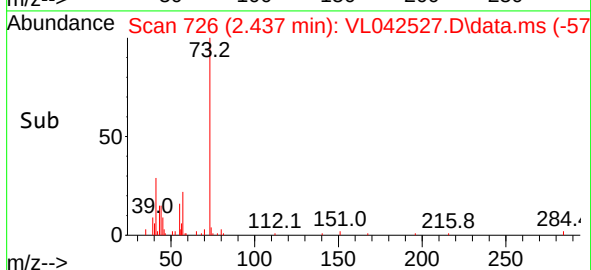
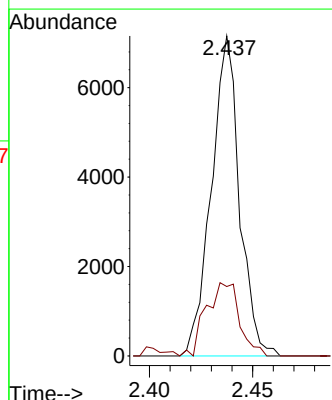
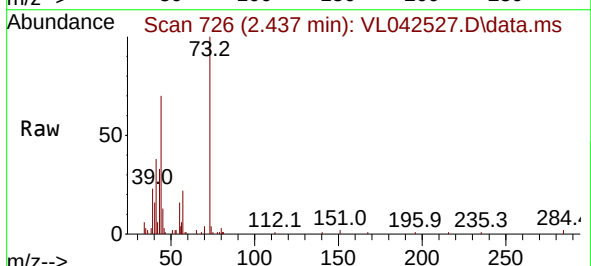
RT: 2.437 min Scan# 726

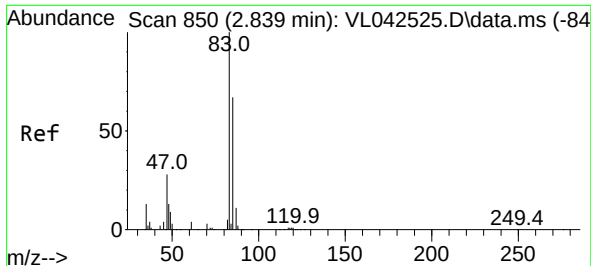
Delta R.T. 0.006 min

Lab File: VL042527.D

Acq: 12 May 2025 10:07

Tgt Ion: 73	Resp: 6789
Ion Ratio	Lower Upper
73	100
57	29.1 20.3 30.5





#29

Chloroform

Concen: 1.026 ppbv

RT: 2.842 min Scan# 851

Delta R.T. 0.003 min

Lab File: VL042527.D

Acq: 12 May 2025 10:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC001

Tgt Ion: 83 Resp: 2695

Ion Ratio Lower Upper

83 100

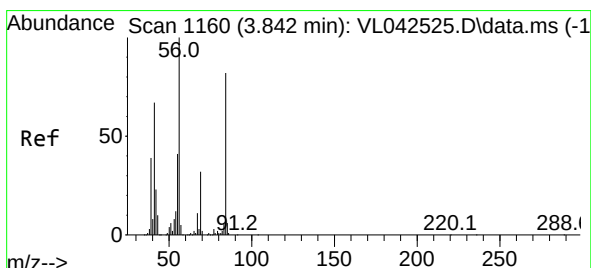
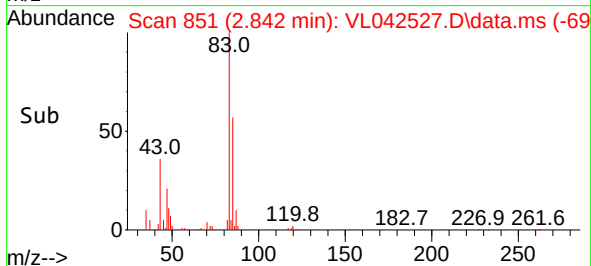
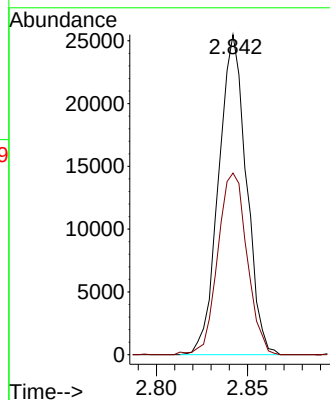
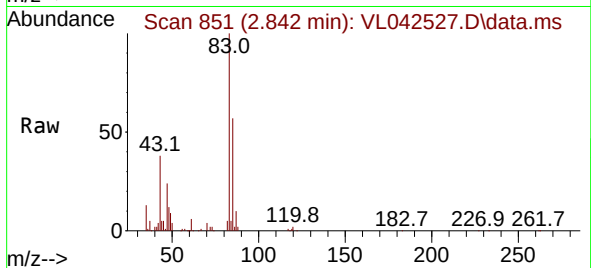
85 56.7 53.5 80.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025

Supervised By :Mahesh Dadoda 05/14/2025



#30

Cyclohexane

Concen: 0.847 ppbv m

RT: 3.845 min Scan# 1161

Delta R.T. 0.003 min

Lab File: VL042527.D

Acq: 12 May 2025 10:07

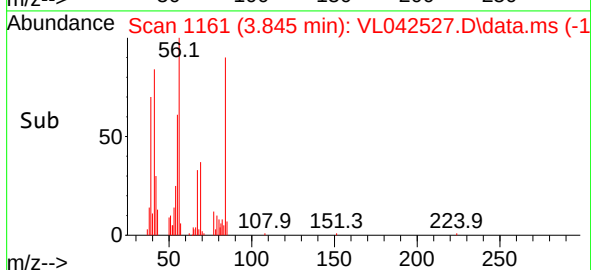
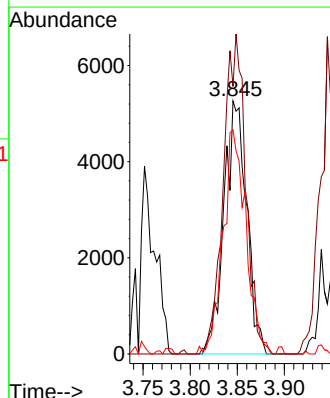
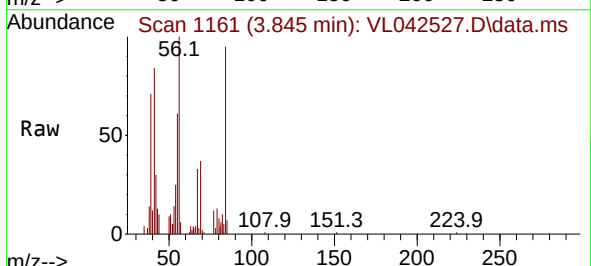
Tgt Ion: 84 Resp: 8805

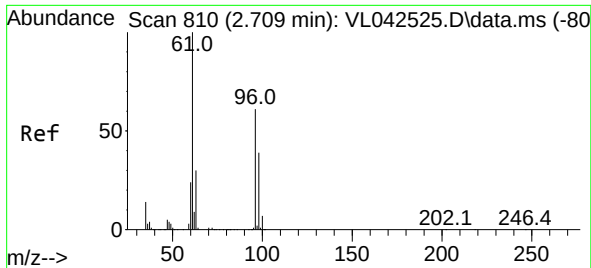
Ion Ratio Lower Upper

84 100

56 125.2 97.1 145.7

41 89.9 66.6 99.8





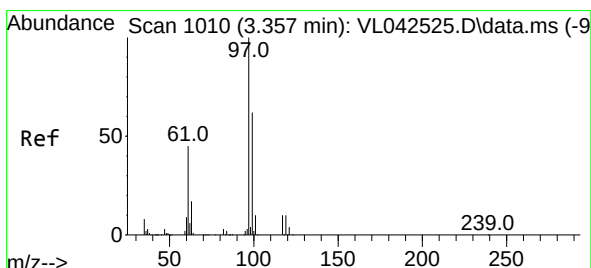
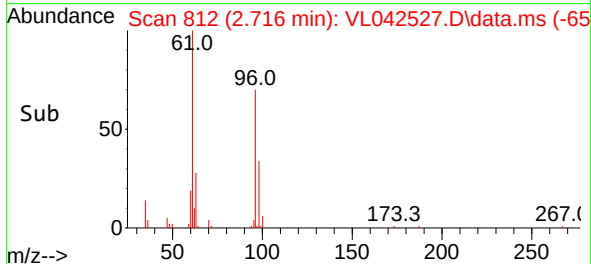
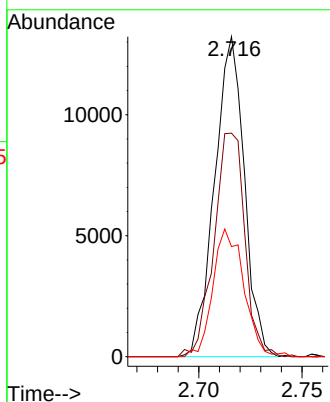
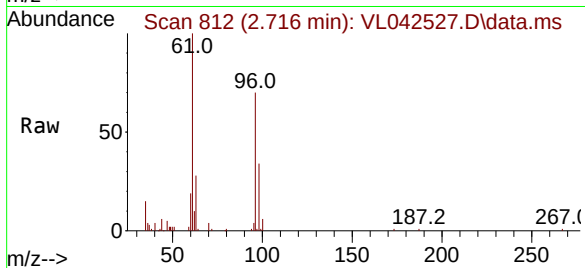
#31
 cis-1,2-Dichloroethene
 Concen: 0.928 ppbv
 RT: 2.716 min Scan# 811
 Delta R.T. 0.006 min
 Lab File: VL042527.D
 Acq: 12 May 2025 10:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Tgt Ion: 61 Resp: 1326
 Ion Ratio Lower Upper
 61 100
 96 69.8 48.9 73.3
 98 34.4 31.4 47.2

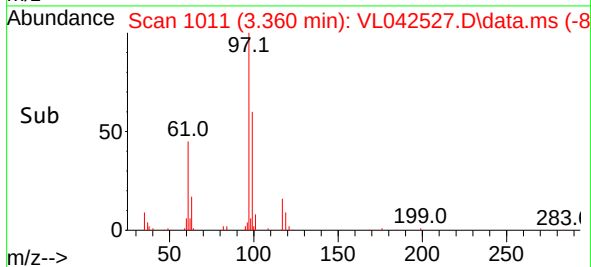
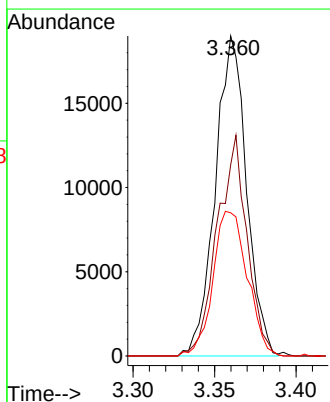
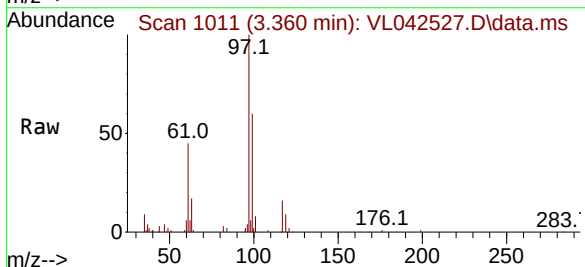
Manual Integrations
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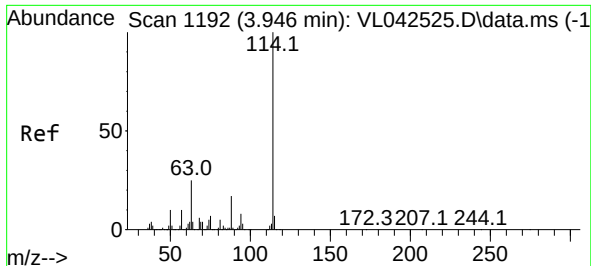
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025



#32
 1,1,1-Trichloroethane
 Concen: 0.955 ppbv
 RT: 3.360 min Scan# 1011
 Delta R.T. 0.003 min
 Lab File: VL042527.D
 Acq: 12 May 2025 10:07

Tgt Ion: 97 Resp: 25297
 Ion Ratio Lower Upper
 97 100
 99 65.8 50.1 75.1
 61 49.8 38.2 57.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.949 min Scan# 1193

Delta R.T. 0.003 min

Lab File: VL042527.D

Acq: 12 May 2025 10:07

Instrument :

MSVOA_L

ClientSampleId :

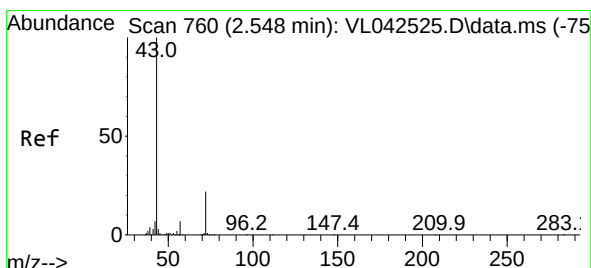
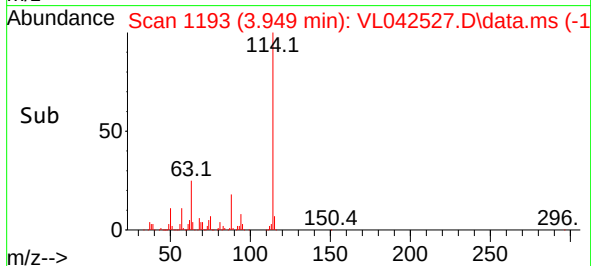
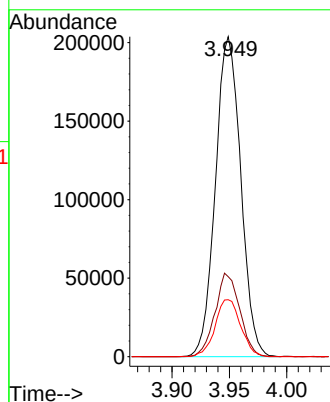
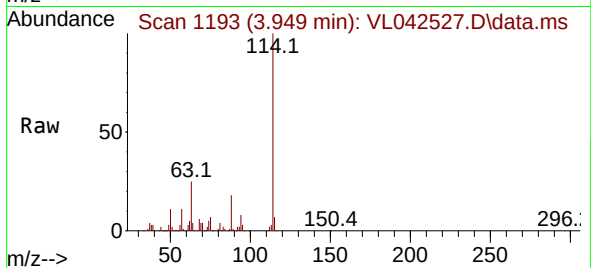
VSTDICC001

Tgt Ion:	114	Resp:	31299
Ion Ratio	Lower	Upper	
114	100		
63	25.5	20.4	30.6
88	18.0	14.5	21.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#34

2-Butanone

Concen: 0.978 ppbv

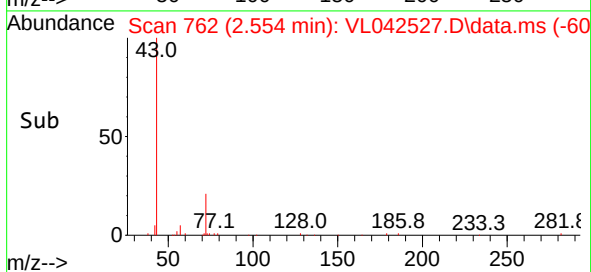
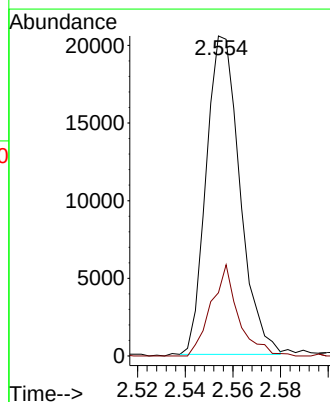
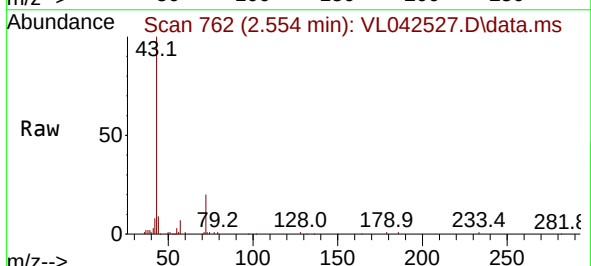
RT: 2.554 min Scan# 762

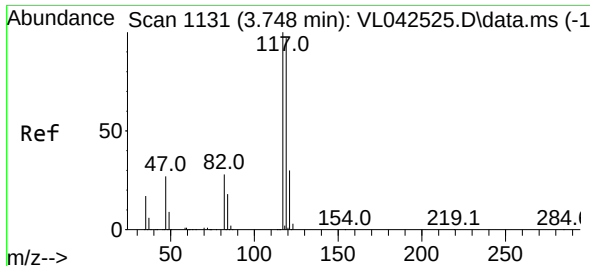
Delta R.T. 0.006 min

Lab File: VL042527.D

Acq: 12 May 2025 10:07

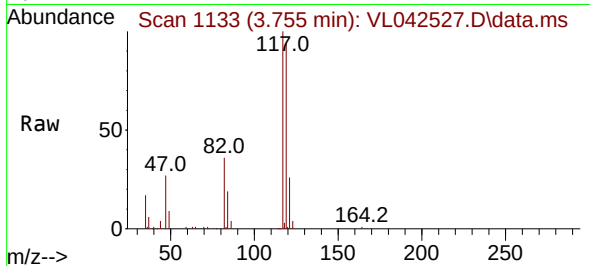
Tgt Ion:	43	Resp:	20174
Ion Ratio	Lower	Upper	
43	100		
72	23.4	18.7	28.1





#35
Carbon Tetrachloride
Concen: 0.966 ppbv
RT: 3.755 min Scan# 1131
Delta R.T. 0.006 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

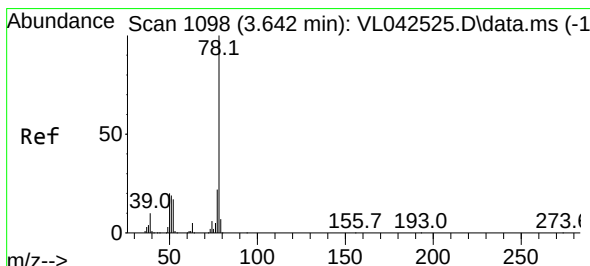
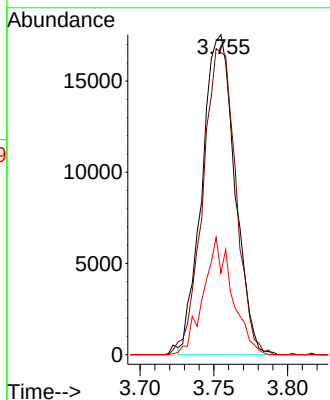
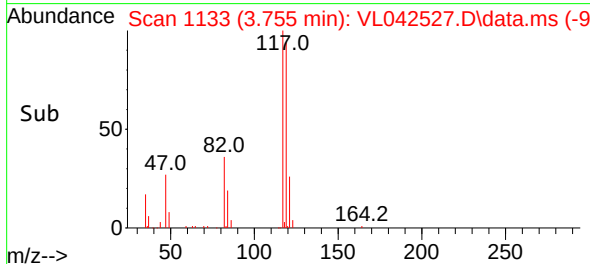
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



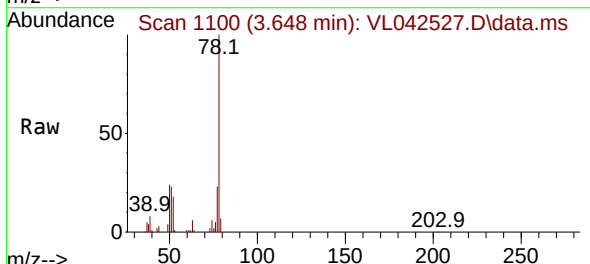
Tgt Ion: 117 Resp: 2718
Ion Ratio Lower Upper
117 100
119 94.4 77.7 116.5
121 25.5 24.0 36.0

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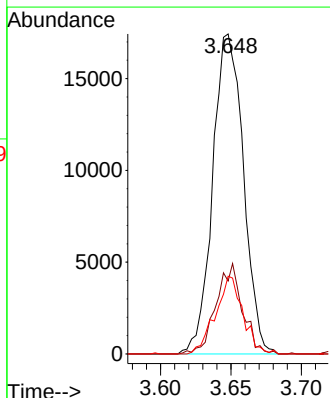
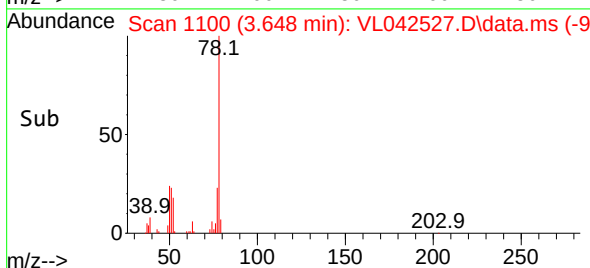
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

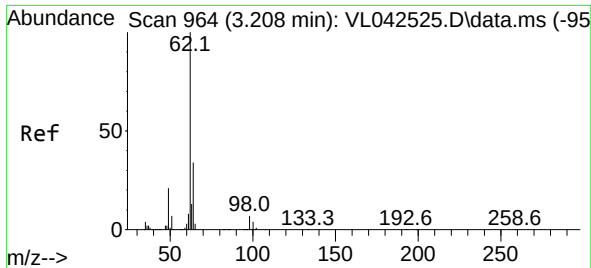


#36
Benzene
Concen: 0.954 ppbv
RT: 3.648 min Scan# 1100
Delta R.T. 0.006 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07



Tgt Ion: 78 Resp: 26465
Ion Ratio Lower Upper
78 100
77 22.8 17.4 26.2
50 24.3 16.3 24.5





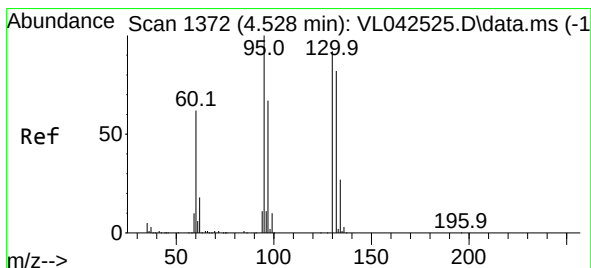
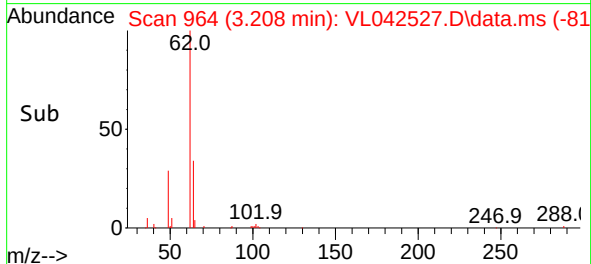
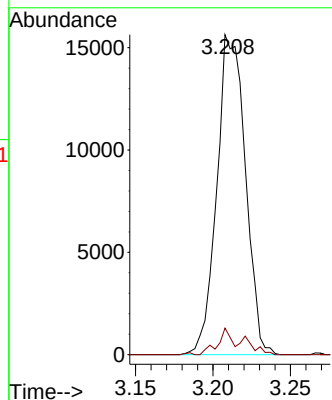
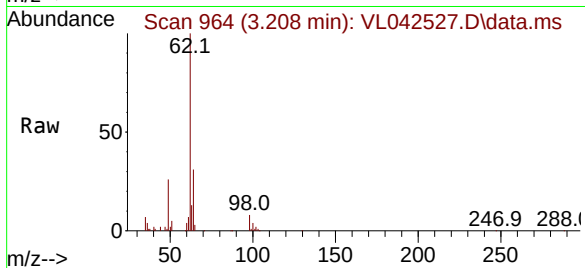
#37
1,2-Dichloroethane
Concen: 1.013 ppbv
RT: 3.208 min Scan# 90
Delta R.T. -0.000 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 62 Resp: 20039
Ion Ratio Lower Upper
62 100
98 6.9 5.0 7.4

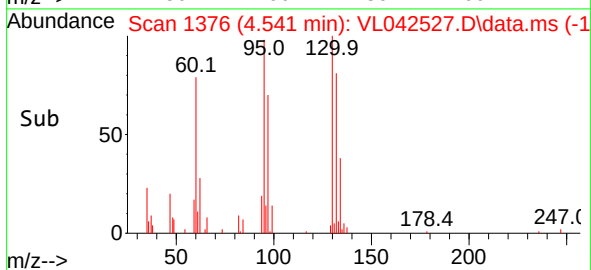
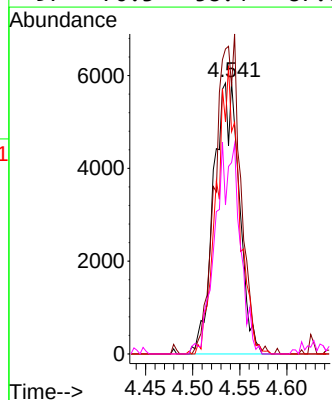
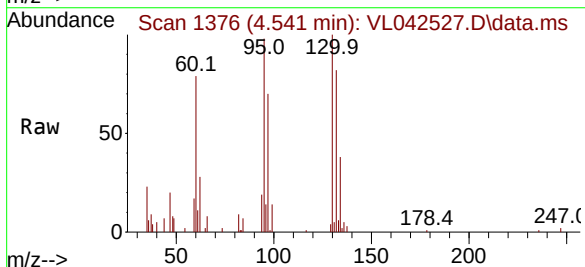
Manual Integrations
APPROVED

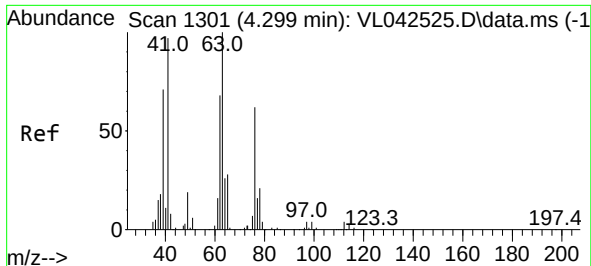
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#38
Trichloroethene
Concen: 0.930 ppbv m
RT: 4.541 min Scan# 1376
Delta R.T. 0.013 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

Tgt Ion:130 Resp: 11026
Ion Ratio Lower Upper
130 100
95 98.4 87.0 130.4
132 81.7 71.1 106.7
97 70.3 58.4 87.6





#39

1,2-Dichloropropane

Concen: 1.004 ppbv m

RT: 4.308 min Scan# 1304

Delta R.T. 0.010 min

Lab File: VL042527.D

Acq: 12 May 2025 10:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC001

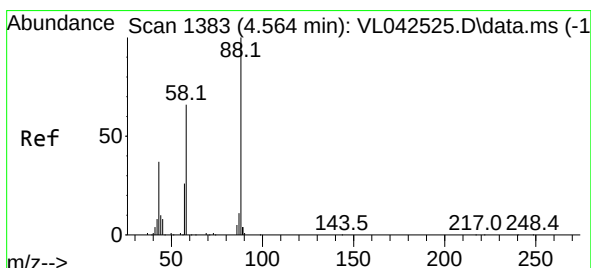
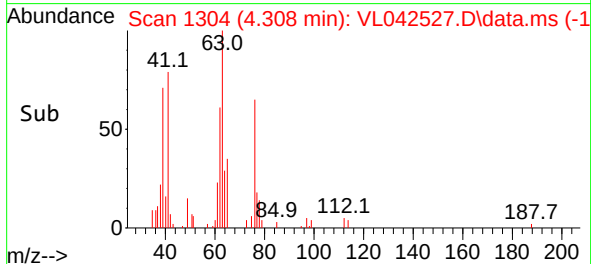
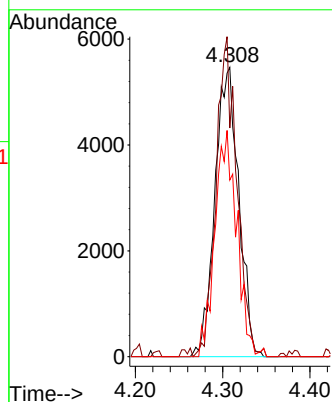
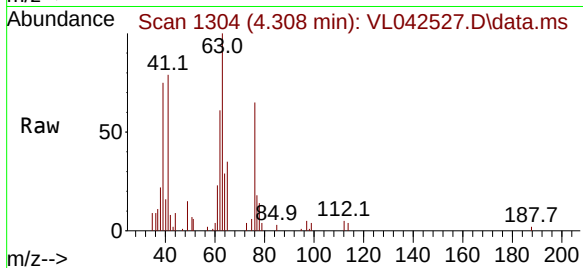
Tgt Ion: 63 Resp: 1036

Ion	Ratio	Lower	Upper
63	100		
41	79.0	77.5	116.3
62	61.1	54.6	82.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#40

1,4-Dioxane

Concen: 0.931 ppbv m

RT: 4.596 min Scan# 1393

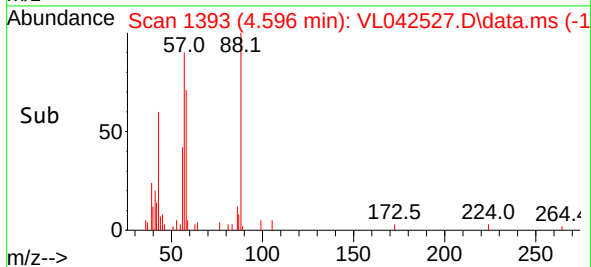
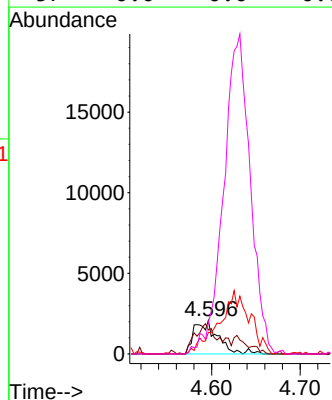
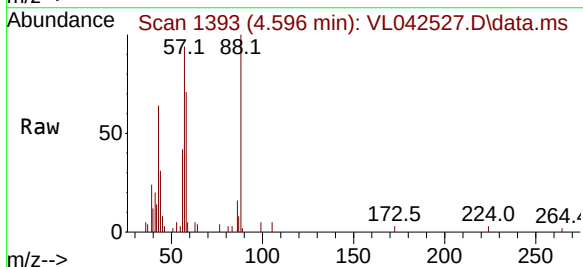
Delta R.T. 0.032 min

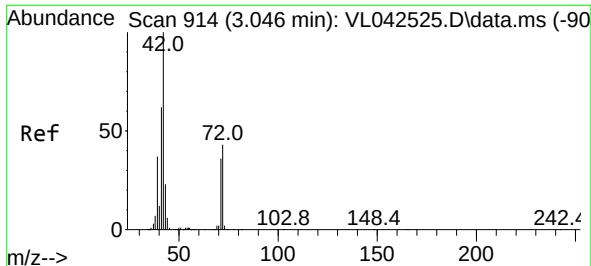
Lab File: VL042527.D

Acq: 12 May 2025 10:07

Tgt Ion: 88 Resp: 3834

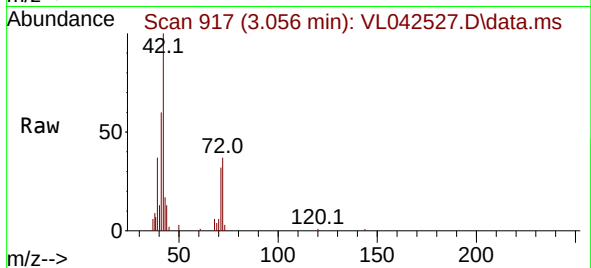
Ion	Ratio	Lower	Upper
88	100		
58	0.0	58.2	87.2#
43	0.0	27.9	41.9#
57	0.0	0.0	0.0





#41
Tetrahydrofuran
Concen: 0.893 ppbv
RT: 3.056 min Scan# 914
Delta R.T. 0.010 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

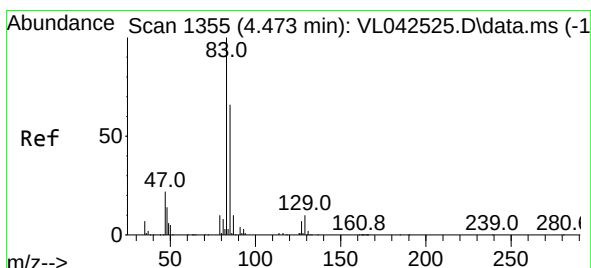
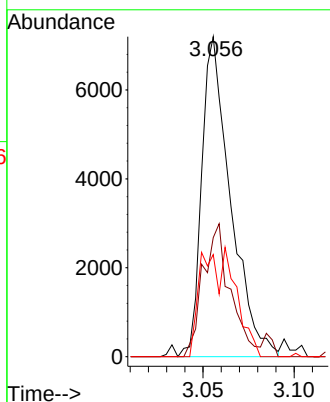
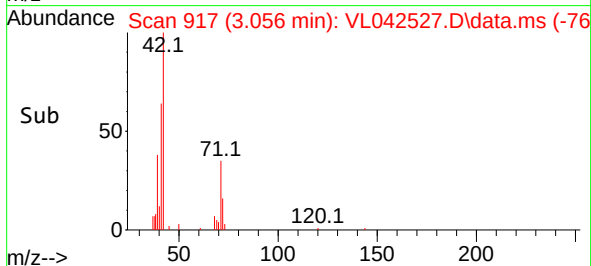
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



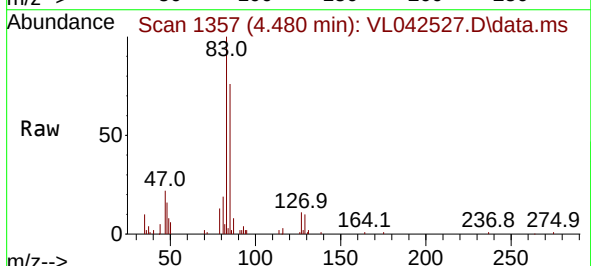
Tgt Ion: 42 Resp: 7944
Ion Ratio Lower Upper
42 100
72 41.7 32.7 49.1
71 40.4 30.4 45.6

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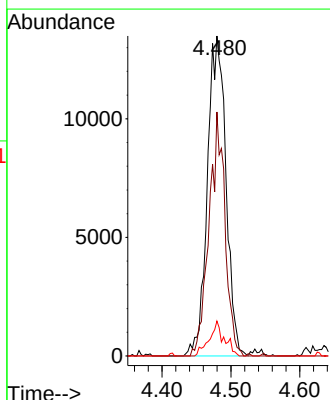
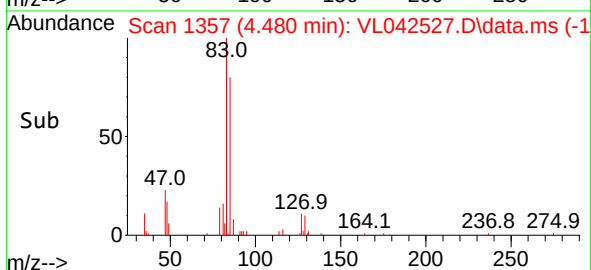
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

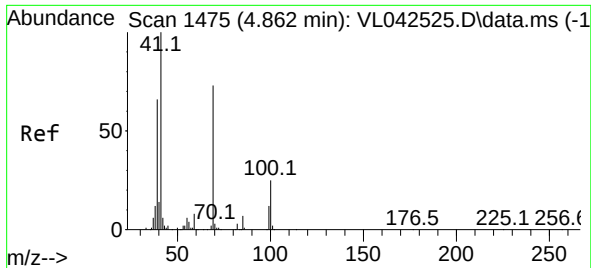


#42
Bromodichloromethane
Concen: 0.969 ppbv m
RT: 4.480 min Scan# 1357
Delta R.T. 0.006 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07



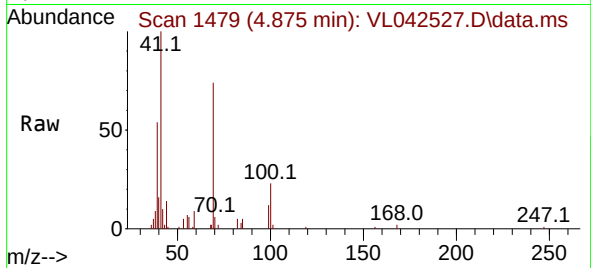
Tgt Ion: 83 Resp: 25549
Ion Ratio Lower Upper
83 100
85 76.3 52.6 79.0
127 10.9 6.0 9.0#





#43
Methyl Methacrylate
Concen: 0.880 ppbv m
RT: 4.875 min Scan# 1475
Delta R.T. 0.013 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

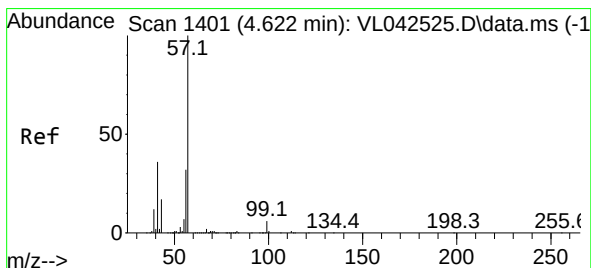
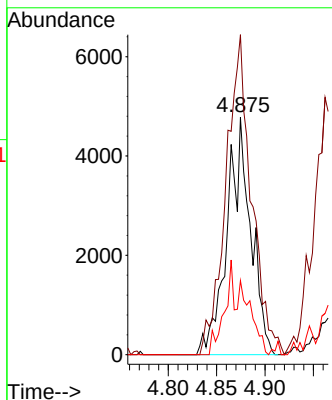
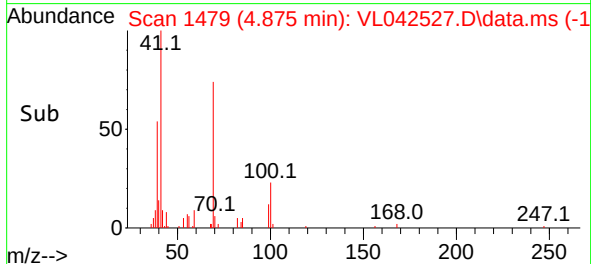
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



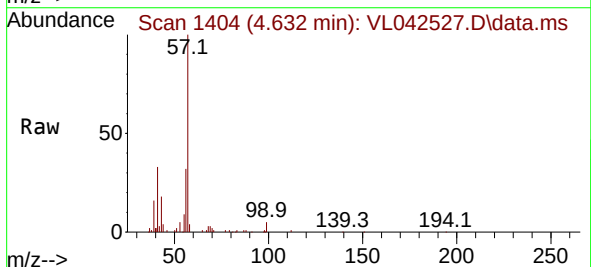
Tgt Ion: 69 Resp: 8149
Ion Ratio Lower Upper
69 100
41 0.0 119.9 179.9
100 35.1 28.4 42.6

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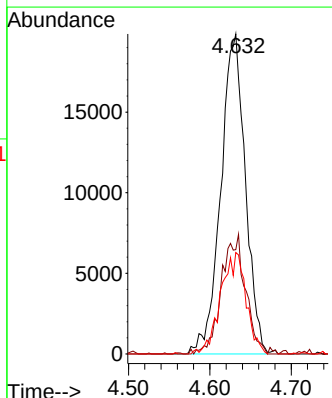
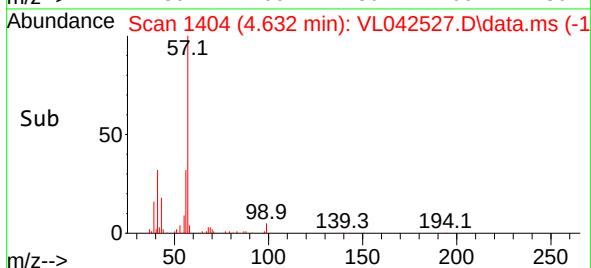
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

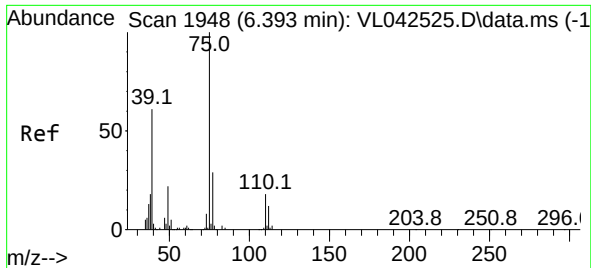


#44
2,2,4-Trimethylpentane
Concen: 0.956 ppbv m
RT: 4.632 min Scan# 1404
Delta R.T. 0.010 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07



Tgt Ion: 57 Resp: 41666
Ion Ratio Lower Upper
57 100
41 37.6 28.3 42.5
56 32.7 25.9 38.9





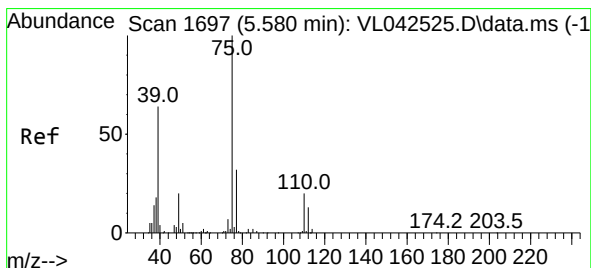
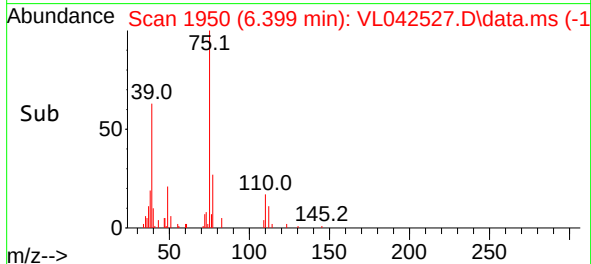
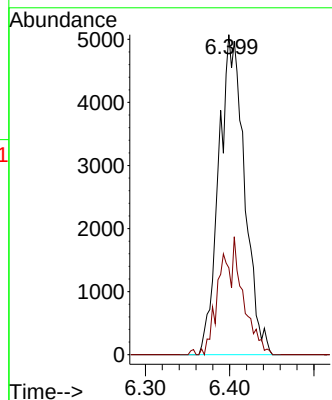
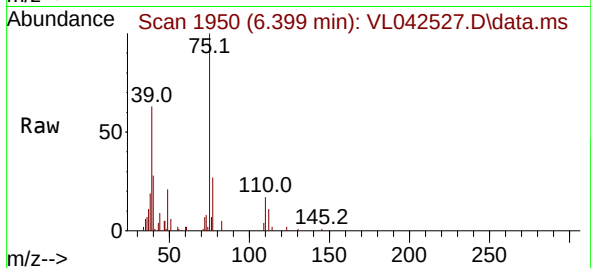
#45
 t-1,3-Dichloropropene
 Concen: 0.906 ppbv m
 RT: 6.399 min Scan# 1948
 Delta R.T. 0.006 min
 Lab File: VL042527.D
 Acq: 12 May 2025 10:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Tgt Ion: 75 Resp: 10710
 Ion Ratio Lower Upper
 75 100
 77 27.2 23.3 34.9

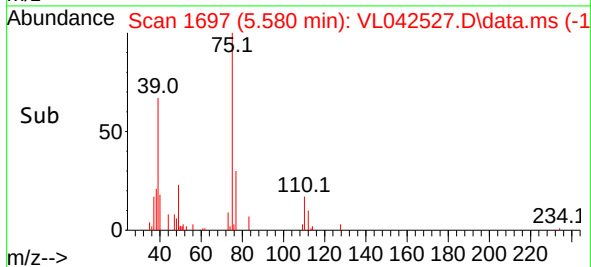
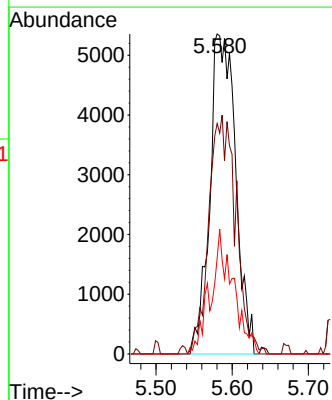
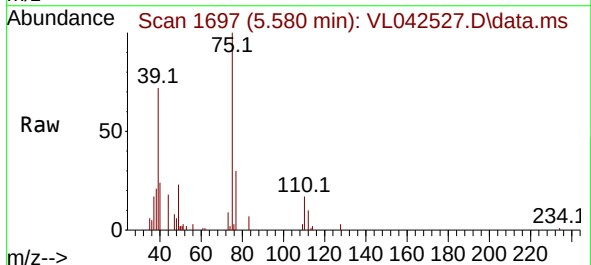
Manual Integrations
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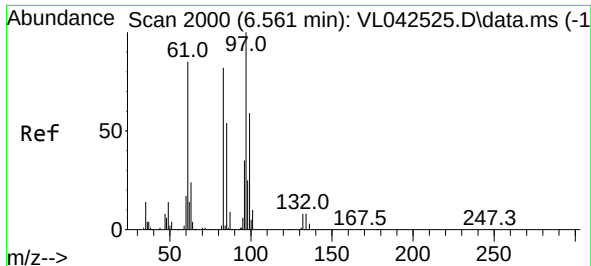
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025



#46
 cis-1,3-Dichloropropene
 Concen: 0.884 ppbv m
 RT: 5.580 min Scan# 1697
 Delta R.T. -0.000 min
 Lab File: VL042527.D
 Acq: 12 May 2025 10:07

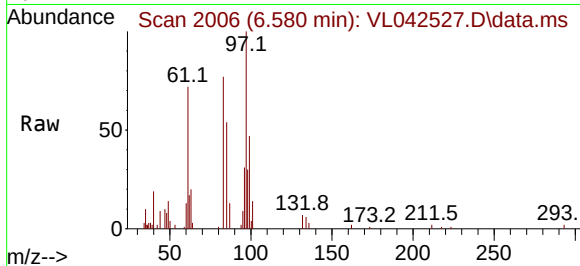
Tgt Ion: 75 Resp: 12616
 Ion Ratio Lower Upper
 75 100
 39 72.0 51.2 76.8
 77 29.9 25.4 38.0





#47
1,1,2-Trichloroethane
Concen: 0.957 ppbv m
RT: 6.580 min Scan# 2006
Delta R.T. 0.019 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

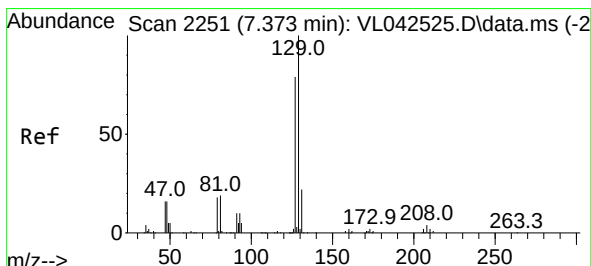
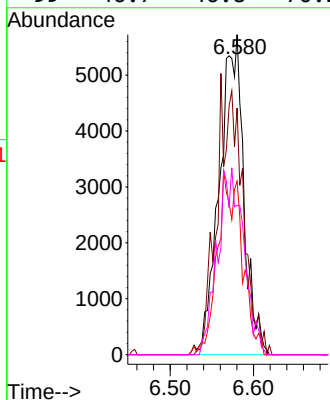
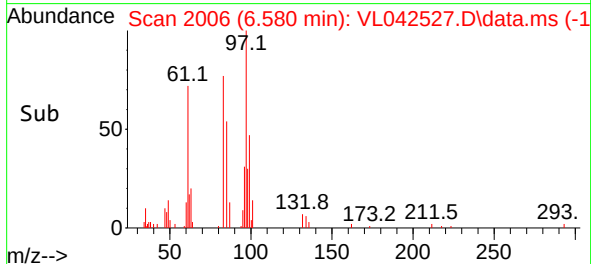
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



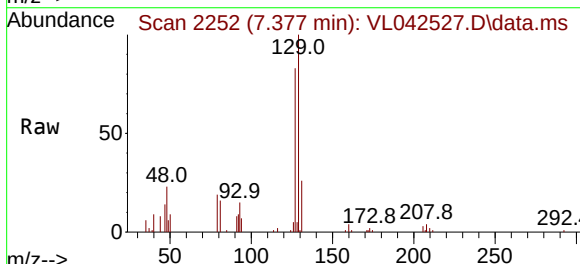
Tgt Ion: 97 Resp: 11630
Ion Ratio Lower Upper
97 100
83 77.1 66.0 99.0
85 54.2 42.8 64.2
99 46.7 46.8 70.2#

Manual Integrations
APPROVED

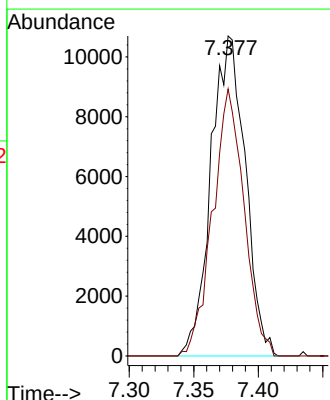
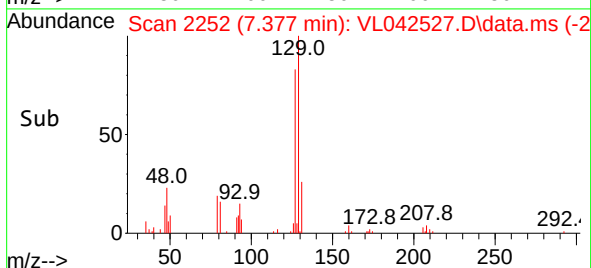
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

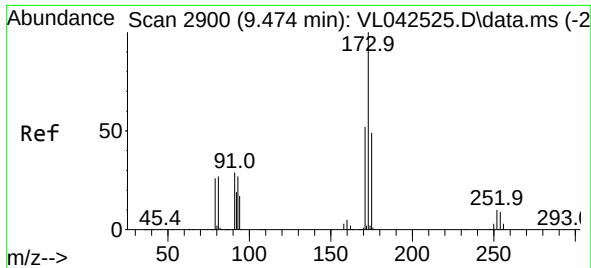


#48
Dibromochloromethane
Concen: 0.973 ppbv
RT: 7.377 min Scan# 2252
Delta R.T. 0.003 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07



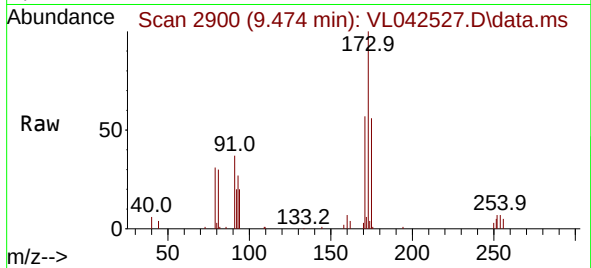
Tgt Ion:129 Resp: 19761
Ion Ratio Lower Upper
129 100
127 76.2 39.6 118.8





#49
Bromoform
Concen: 0.944 ppbv
RT: 9.474 min Scan# 2900
Delta R.T. -0.000 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

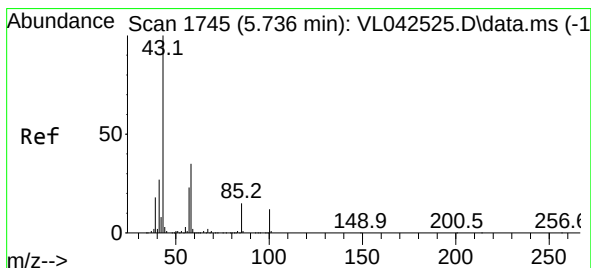
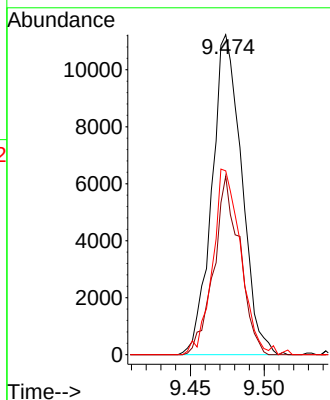
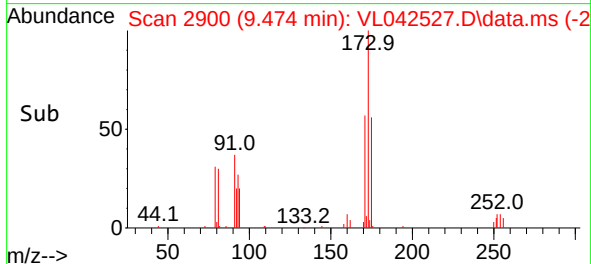
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



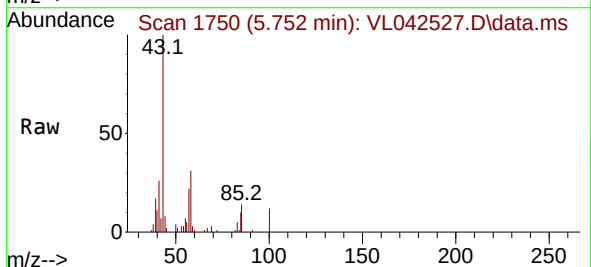
Tgt Ion: 173 Resp: 15749
Ion Ratio Lower Upper
173 100
175 48.8 39.1 58.7
171 55.0 41.8 62.8

Manual Integrations
APPROVED

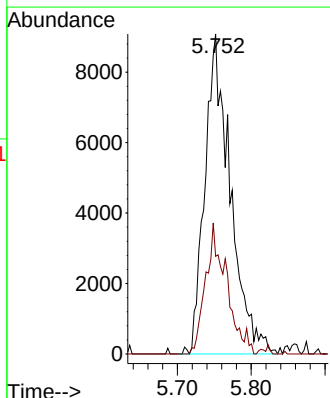
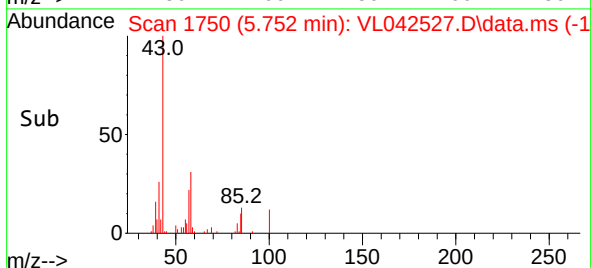
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

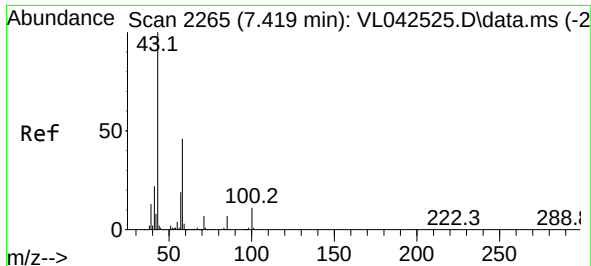


#50
4-Methyl-2-Pentanone
Concen: 0.898 ppbv m
RT: 5.752 min Scan# 1750
Delta R.T. 0.016 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07



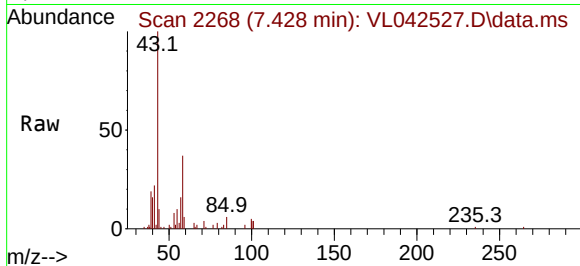
Tgt Ion: 43 Resp: 21720
Ion Ratio Lower Upper
43 100
58 34.1 28.6 42.8





#51
2-Hexanone
Concen: 0.815 ppbv m
RT: 7.428 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

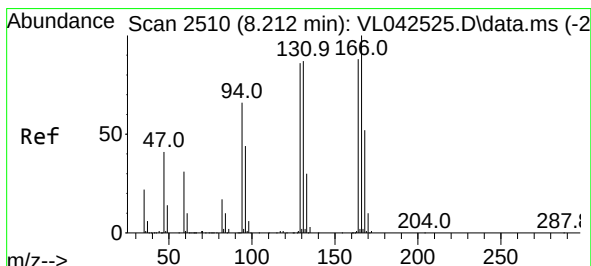
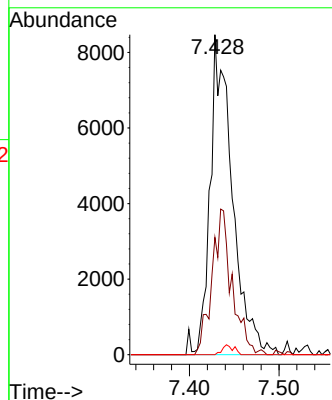
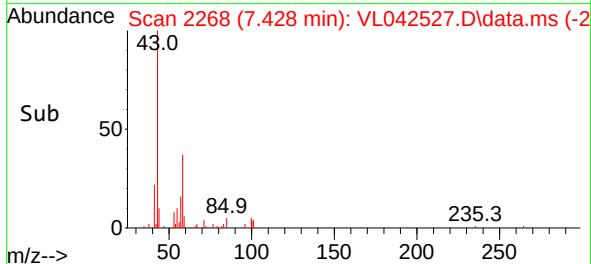
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



Tgt Ion: 43 Resp: 14649
Ion Ratio Lower Upper
43 100
58 0.0 37.5 56.3#
98 0.0 0.9 1.3#

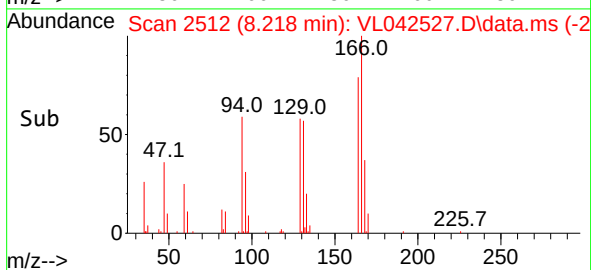
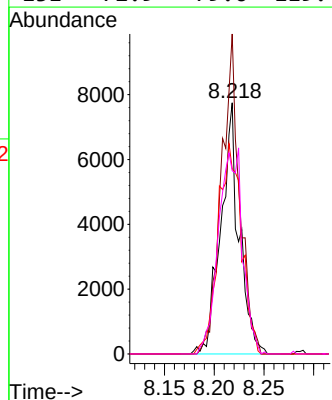
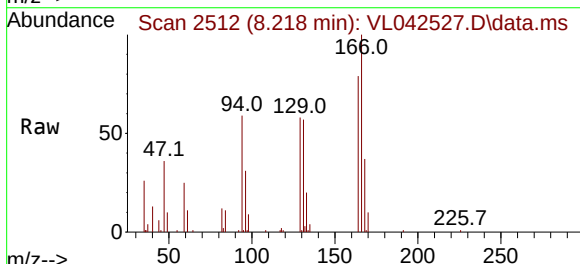
Manual Integrations
APPROVED

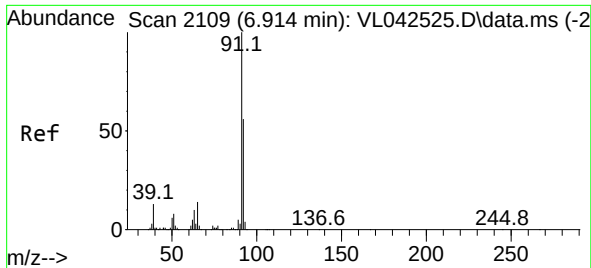
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#52
Tetrachloroethene
Concen: 0.928 ppbv m
RT: 8.218 min Scan# 2512
Delta R.T. 0.006 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

Tgt Ion:164 Resp: 9912
Ion Ratio Lower Upper
164 100
166 127.4 91.3 136.9
129 73.8 78.9 118.3#
131 72.9 79.6 119.4#





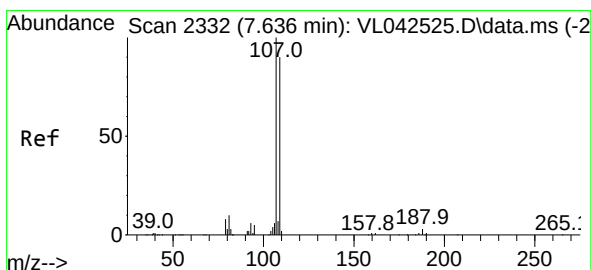
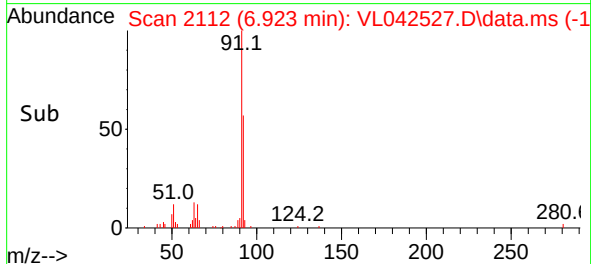
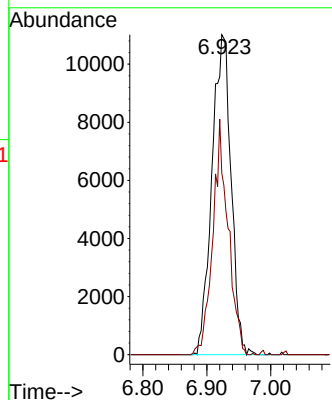
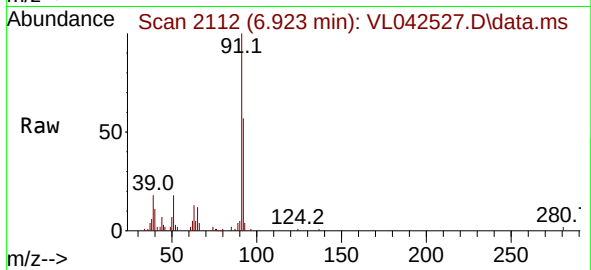
#53
Toluene
Concen: 0.841 ppbv m
RT: 6.923 min Scan# 2109
Delta R.T. 0.010 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 2289
Ion Ratio Lower Upper
91 100
92 59.1 47.8 71.6

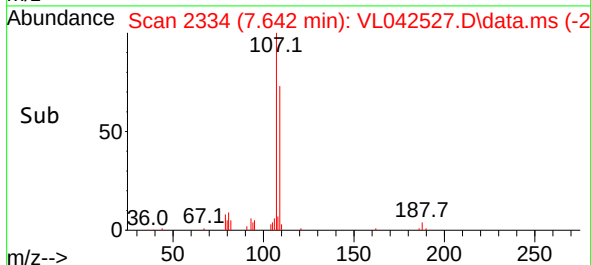
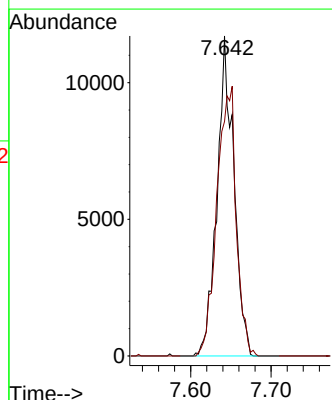
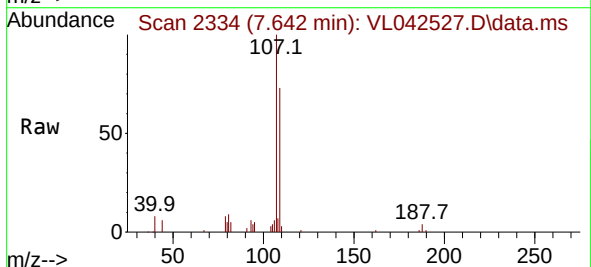
Manual Integrations
APPROVED

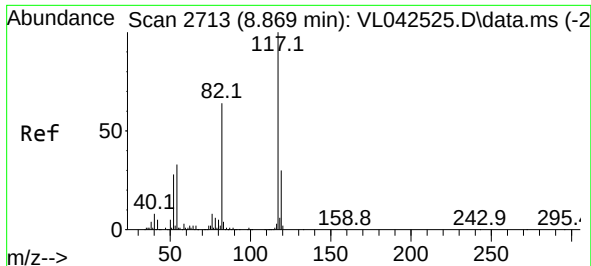
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#54
1,2-Dibromoethane
Concen: 0.955 ppbv m
RT: 7.642 min Scan# 2334
Delta R.T. 0.006 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

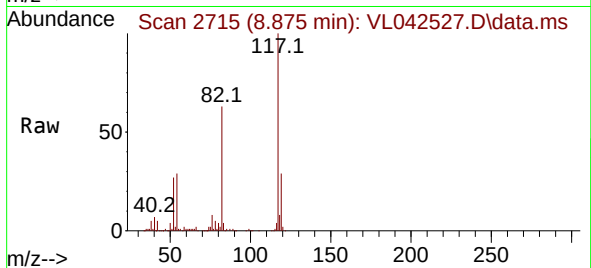
Tgt Ion:107 Resp: 16971
Ion Ratio Lower Upper
107 100
109 73.3 72.2 108.4





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. 0.006 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

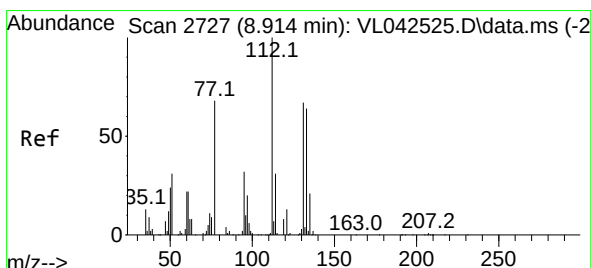
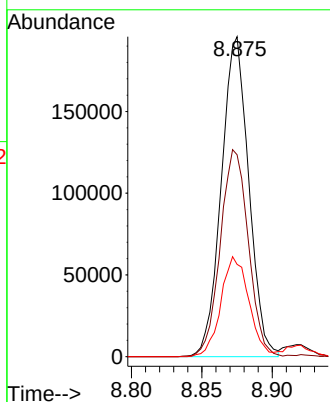
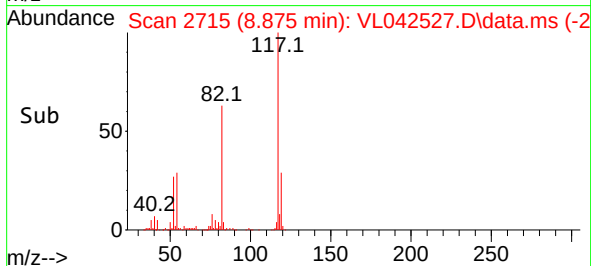
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



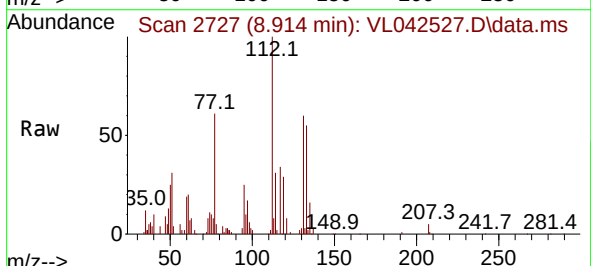
Tgt Ion:117 Resp: 26584
Ion Ratio Lower Upper
117 100
82 66.6 55.0 82.4
119 35.5 25.8 38.6

Manual Integrations
APPROVED

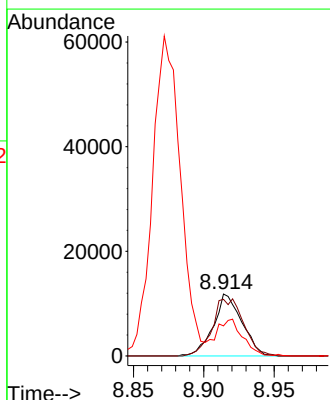
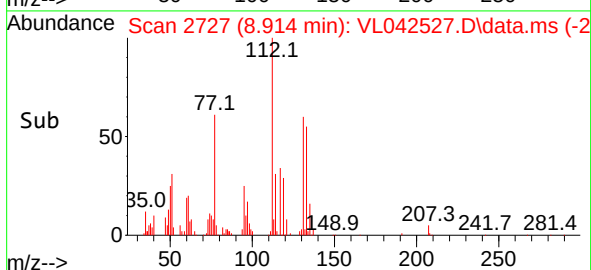
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

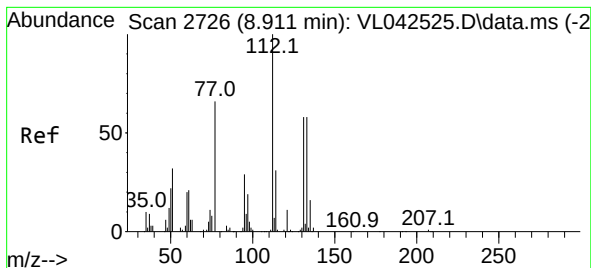


#56
1,1,1,2-Tetrachloroethane
Concen: 1.010 ppbv
RT: 8.914 min Scan# 2727
Delta R.T. -0.000 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07



Tgt Ion:131 Resp: 16650
Ion Ratio Lower Upper
131 100
133 102.2 77.4 116.2
119 566.5 49.0 73.4#





#57

Chlorobenzene

Concen: 0.973 ppbv

RT: 8.914 min Scan# 21

Delta R.T. 0.003 min

Lab File: VL042527.D

Acq: 12 May 2025 10:07

Instrument :

MSVOA_L

ClientSampleId :

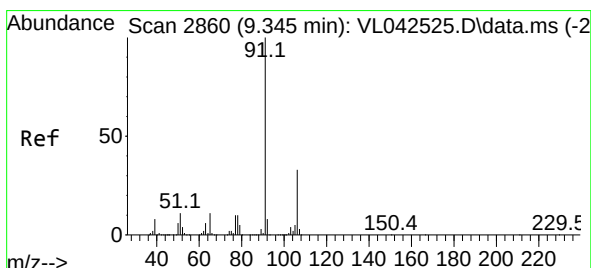
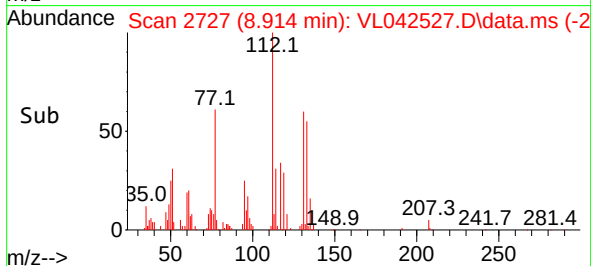
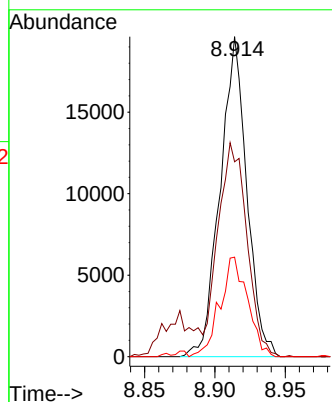
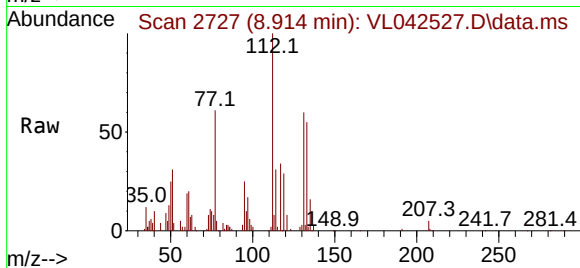
VSTDICC001

Tgt Ion:	112	Resp:	25980
Ion Ratio	Lower	Upper	
112	100		
77	60.9	53.6	80.4
114	30.8	28.2	34.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#58

Ethyl Benzene

Concen: 0.795 ppbv m

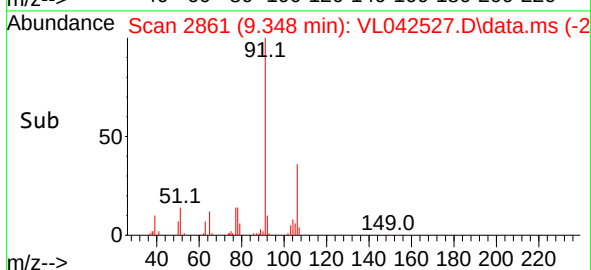
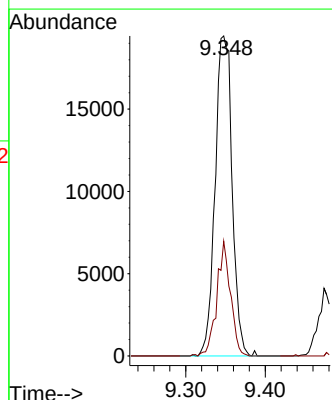
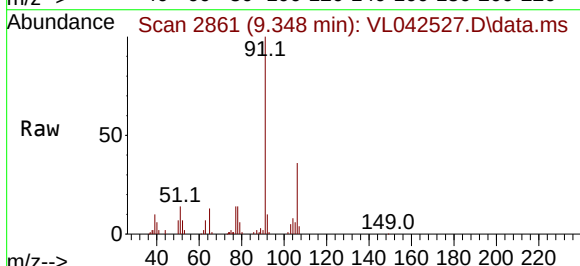
RT: 9.348 min Scan# 2861

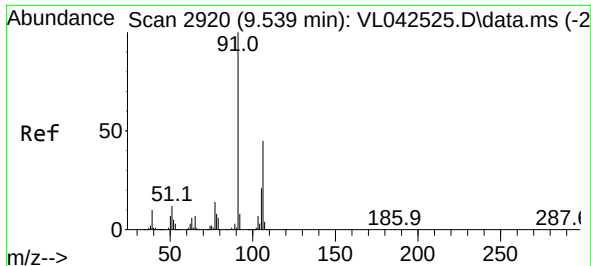
Delta R.T. 0.003 min

Lab File: VL042527.D

Acq: 12 May 2025 10:07

Tgt Ion:	91	Resp:	28807
Ion Ratio	Lower	Upper	
91	100		
106	35.9	26.0	39.0





#59

m/p-Xylene

Concen: 1.695 ppbv m

RT: 9.542 min Scan# 2920

Delta R.T. 0.003 min

Lab File: VL042527.D

Acq: 12 May 2025 10:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion: 91 Resp: 5464

Ion Ratio Lower Upper

91 100

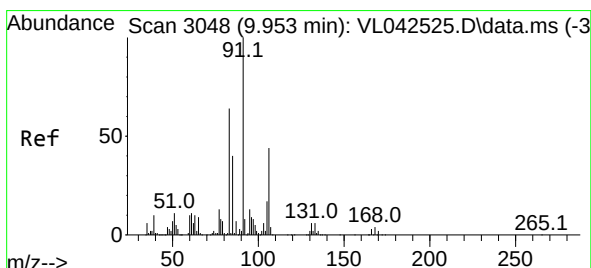
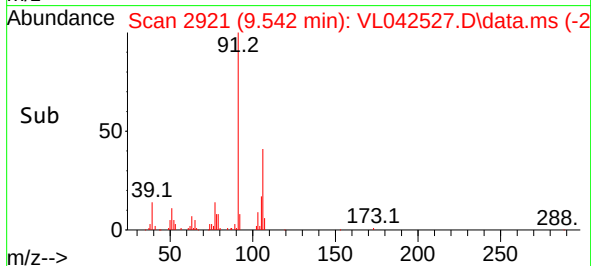
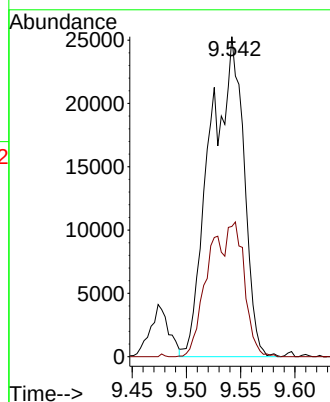
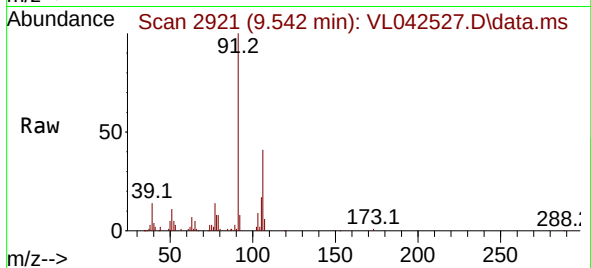
106 44.4 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025

Supervised By :Mahesh Dadoda 05/14/2025



#60

o-Xylene

Concen: 0.854 ppbv

RT: 9.956 min Scan# 3049

Delta R.T. 0.003 min

Lab File: VL042527.D

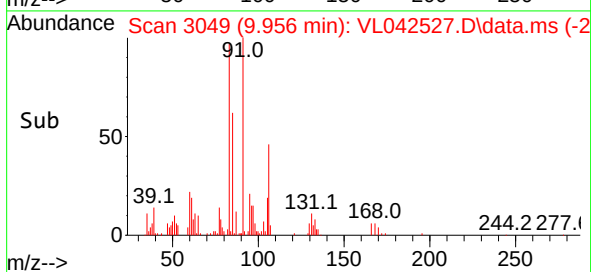
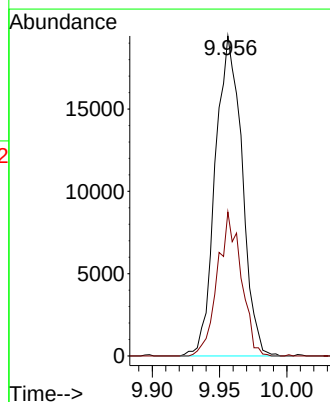
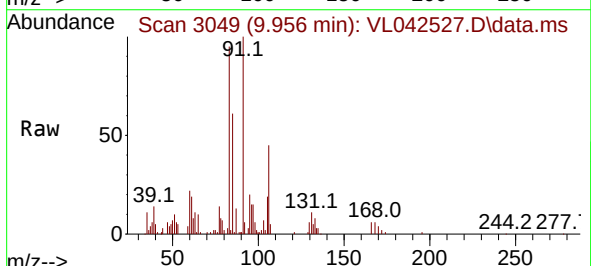
Acq: 12 May 2025 10:07

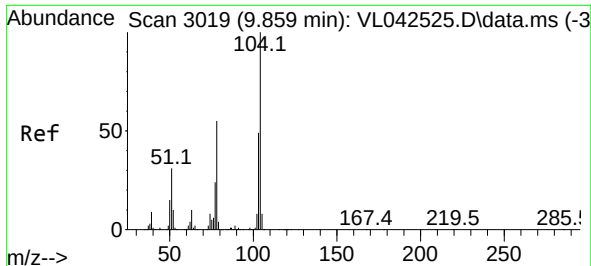
Tgt Ion: 91 Resp: 26834

Ion Ratio Lower Upper

91 100

106 40.1 21.6 64.6





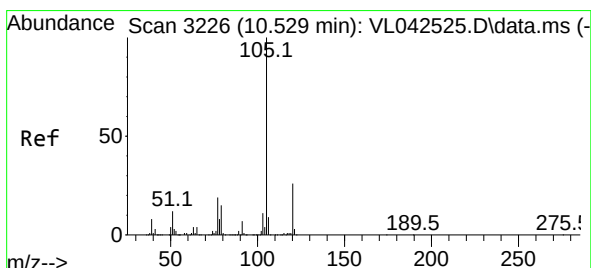
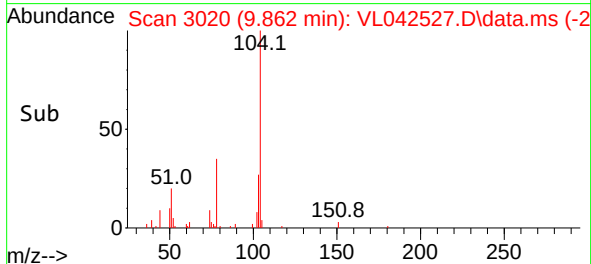
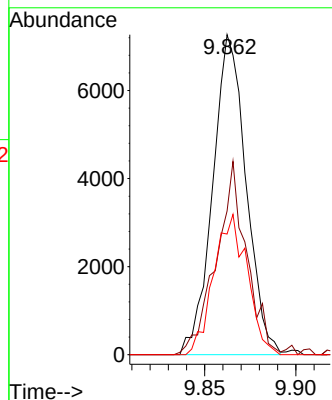
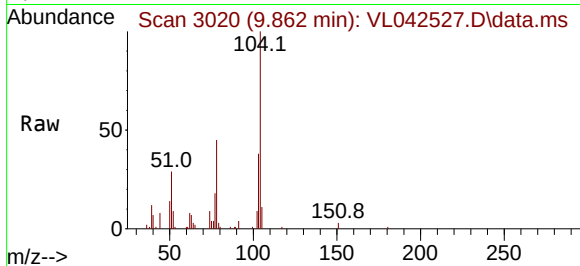
#61
Styrene
Concen: 0.800 ppbv
RT: 9.862 min Scan# 3019
Delta R.T. 0.003 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion:104 Resp: 9259
Ion Ratio Lower Upper
104 100
78 55.5 44.7 67.1
103 44.0 38.6 58.0

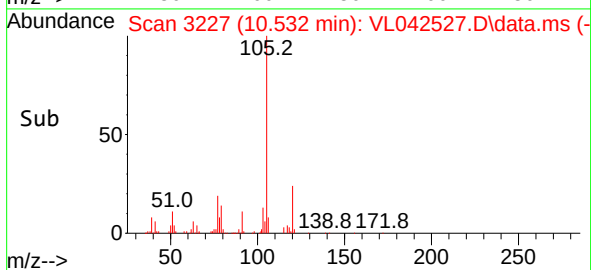
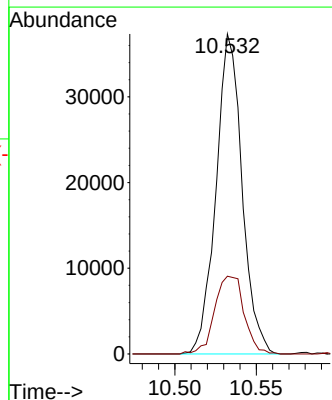
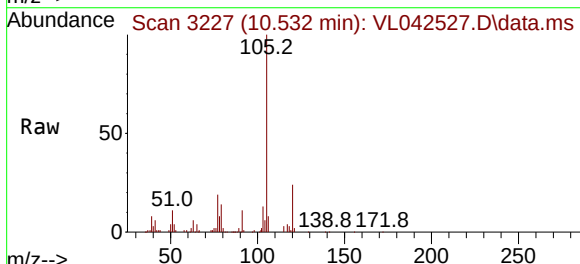
Manual Integrations
APPROVED

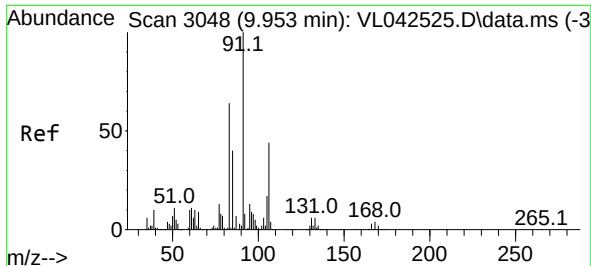
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#62
Isopropylbenzene
Concen: 0.877 ppbv
RT: 10.532 min Scan# 3227
Delta R.T. 0.003 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

Tgt Ion:105 Resp: 41504
Ion Ratio Lower Upper
105 100
120 27.4 20.1 30.1





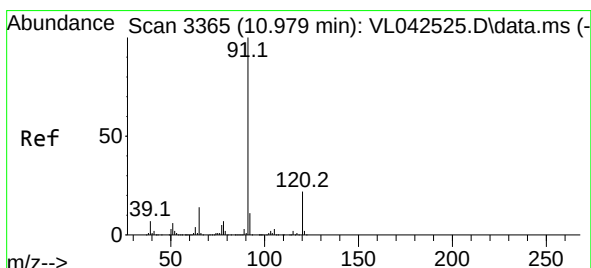
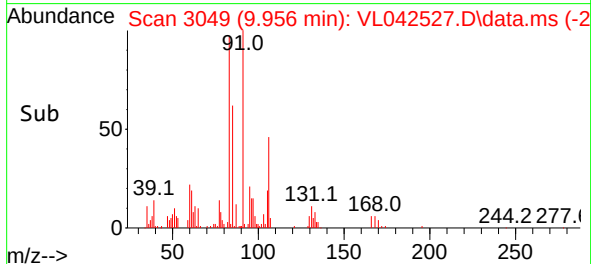
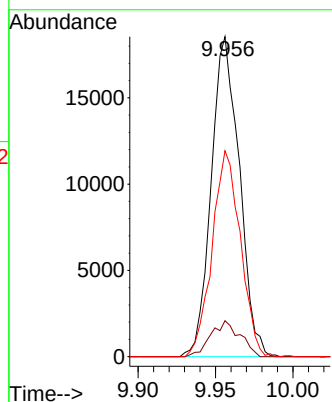
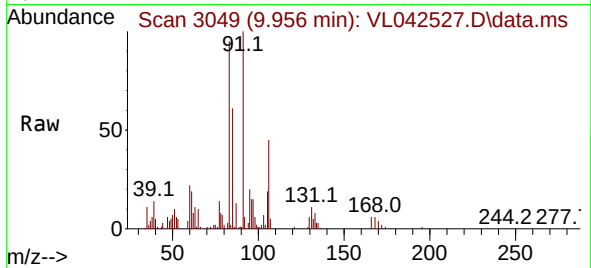
#63
1,1,2,2-Tetrachloroethane
Concen: 0.930 ppbv
RT: 9.956 min Scan# 3048
Delta R.T. 0.003 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 83 Resp: 23419
Ion Ratio Lower Upper
83 100
131 11.7 4.9 14.7
85 64.6 32.3 96.8

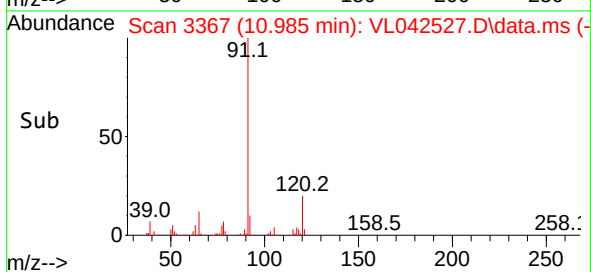
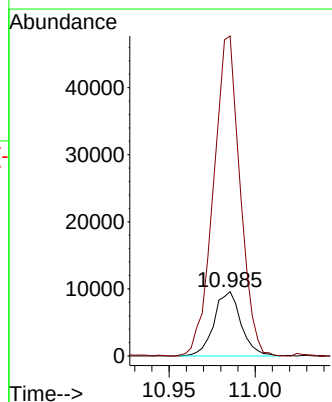
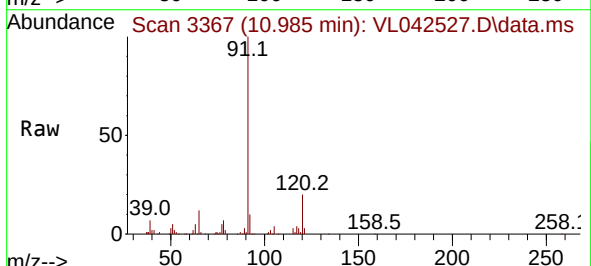
Manual Integrations
APPROVED

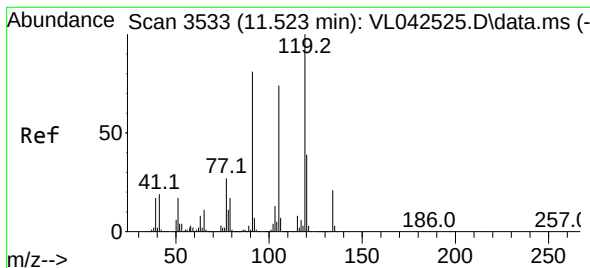
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#64
n-propylbenzene
Concen: 0.870 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. 0.006 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

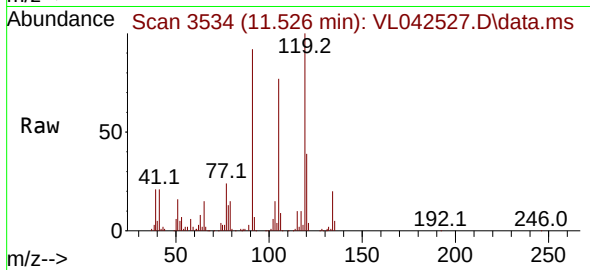
Tgt Ion:120 Resp: 10433
Ion Ratio Lower Upper
120 100
91 491.4 377.7 566.5





#65
tert-Butylbenzene
Concen: 0.878 ppbv
RT: 11.526 min Scan# 3534
Delta R.T. 0.003 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

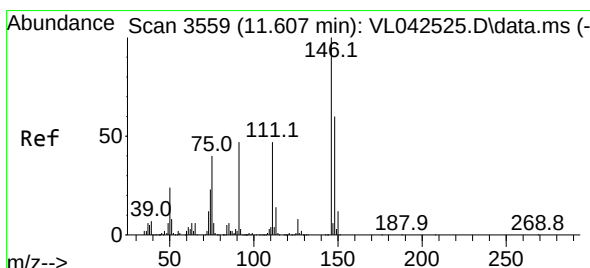
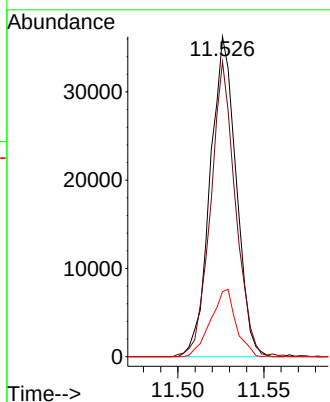
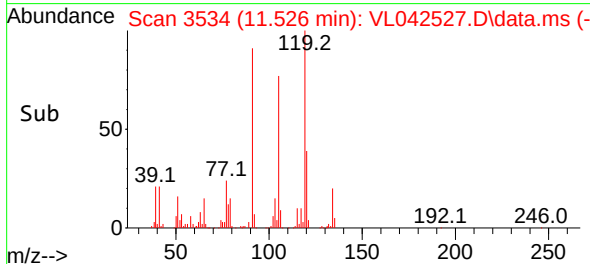
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



Tgt Ion: 119 Resp: 38170
Ion Ratio Lower Upper
119 100
91 87.9 66.6 99.8
134 20.5 16.3 24.5

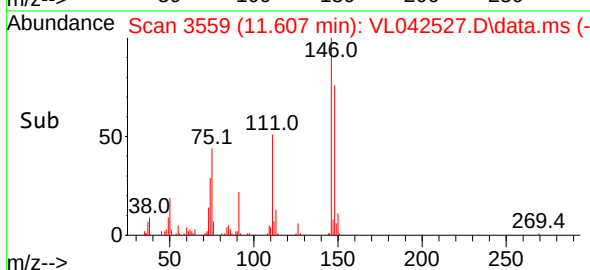
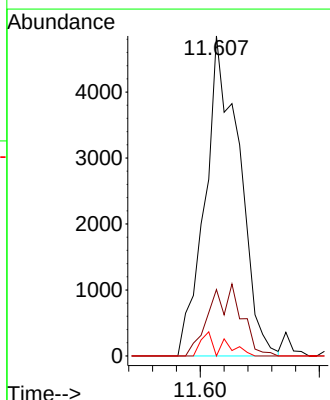
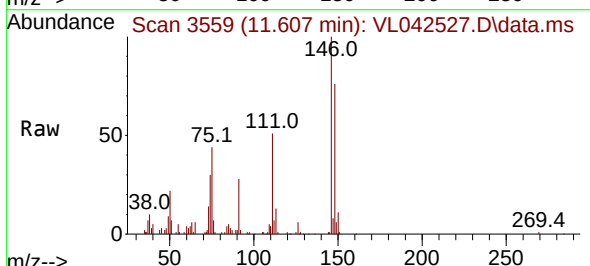
Manual Integrations
APPROVED

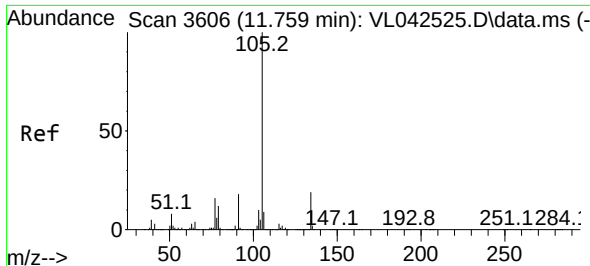
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#66
Benzyl Chloride
Concen: 0.839 ppbv
RT: 11.607 min Scan# 3559
Delta R.T. -0.000 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

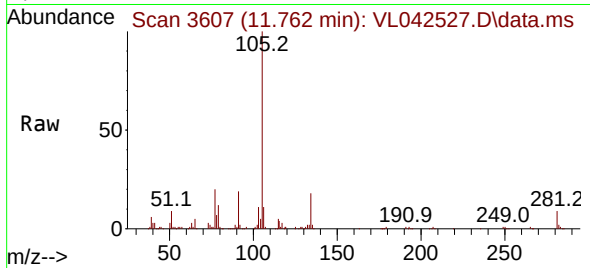
Tgt Ion: 91 Resp: 4826
Ion Ratio Lower Upper
91 100
126 21.0 13.7 20.5#
128 4.6 4.2 6.2





#67
 sec-Butylbenzene
 Concen: 0.909 ppbv
 RT: 11.762 min Scan# 3607
 Delta R.T. 0.003 min
 Lab File: VL042527.D
 Acq: 12 May 2025 10:07

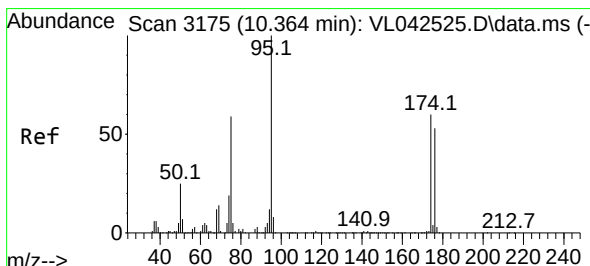
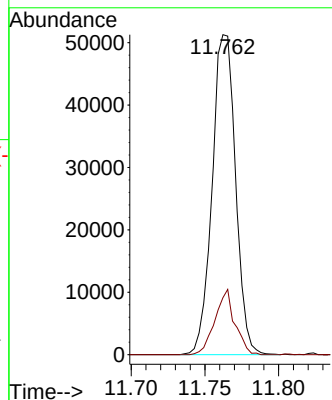
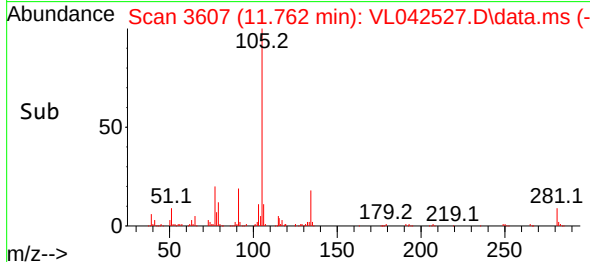
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001



Tgt Ion: 105 Resp: 56638
 Ion Ratio Lower Upper
 105 100
 134 17.2 14.9 22.3

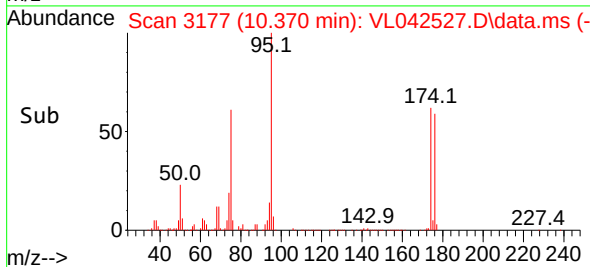
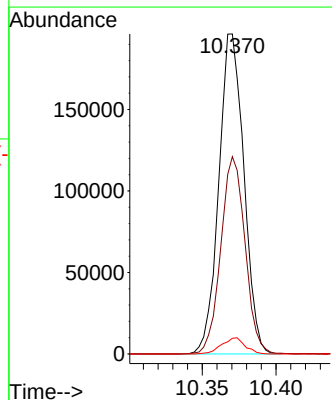
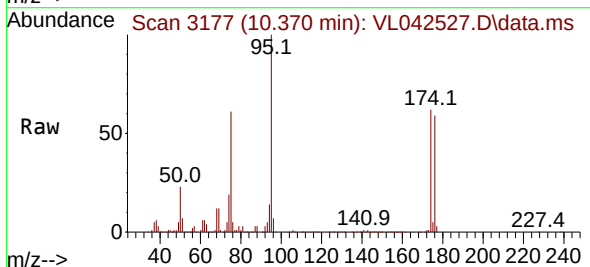
Manual Integrations
 APPROVED

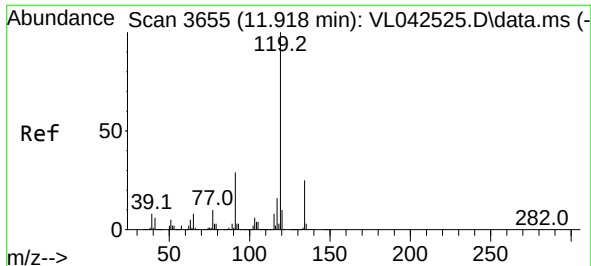
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.029 ppbv
 RT: 10.370 min Scan# 3177
 Delta R.T. 0.006 min
 Lab File: VL042527.D
 Acq: 12 May 2025 10:07

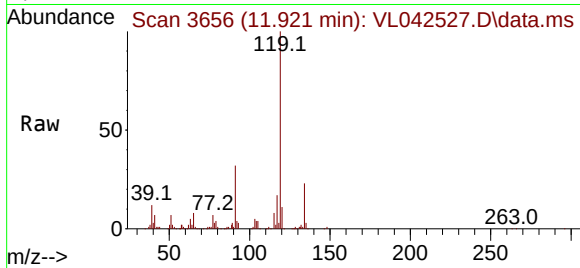
Tgt Ion: 95 Resp: 231970
 Ion Ratio Lower Upper
 95 100
 174 59.8 48.0 72.0
 175 4.7 3.5 5.3





#69
p-Isopropyltoluene
Concen: 0.867 ppbv
RT: 11.921 min Scan# 3656
Delta R.T. 0.003 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

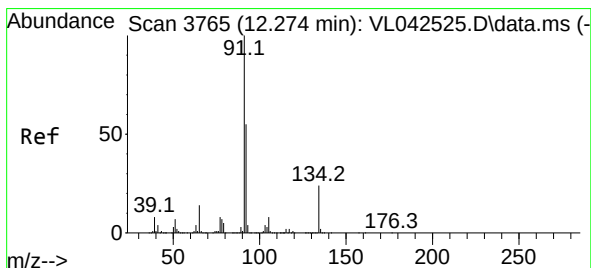
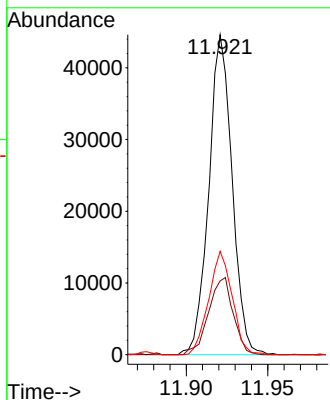
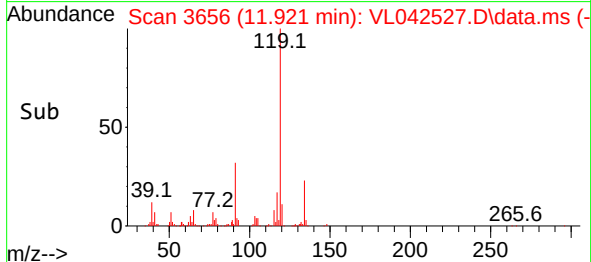
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



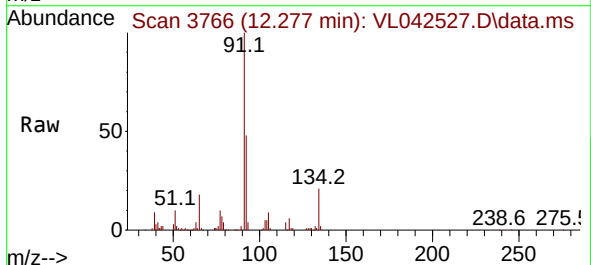
Tgt Ion: 119 Resp: 44400
Ion Ratio Lower Upper
119 100
134 25.4 19.8 29.6
91 32.5 23.6 35.4

Manual Integrations
APPROVED

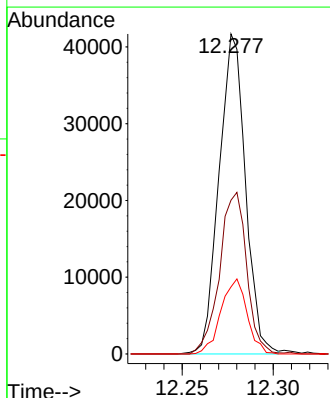
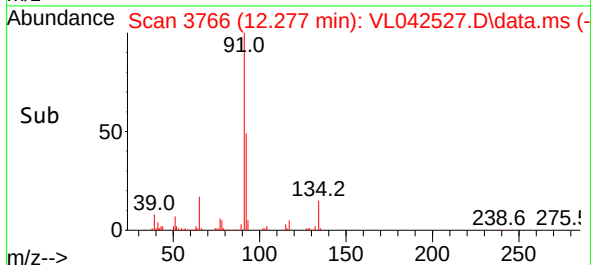
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

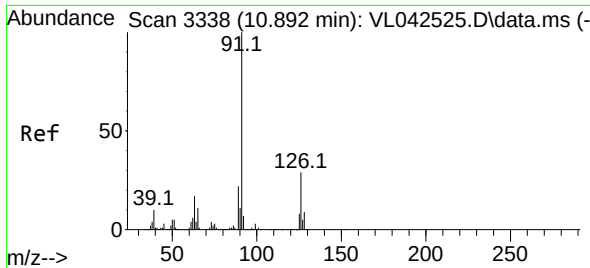


#70
n-Butylbenzene
Concen: 0.827 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. 0.003 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07



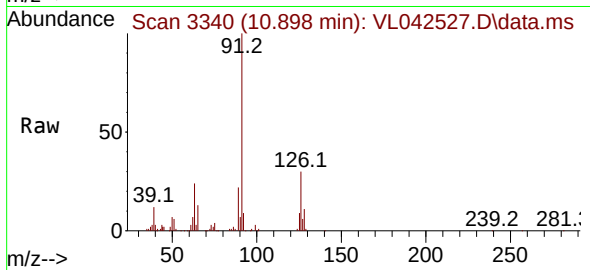
Tgt Ion: 91 Resp: 41878
Ion Ratio Lower Upper
91 100
92 52.0 43.7 65.5
134 23.2 18.9 28.3





#71
2-Chlorotoluene
Concen: 0.839 ppbv
RT: 10.898 min Scan# 31
Delta R.T. 0.006 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

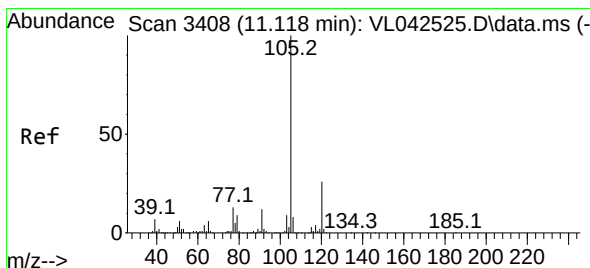
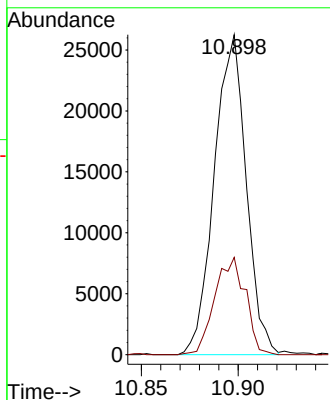
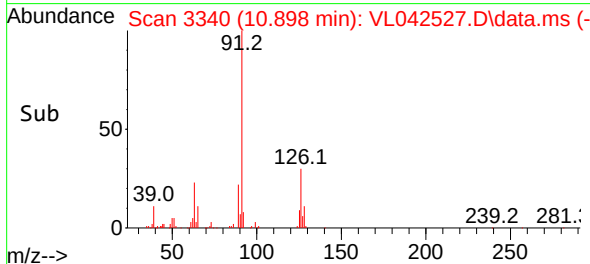
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



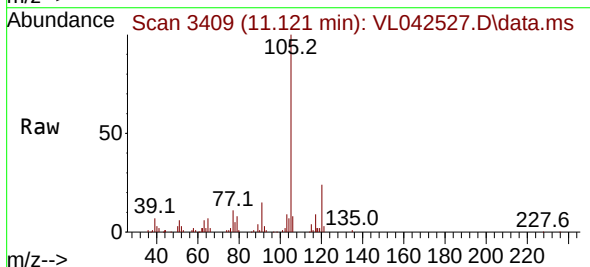
Tgt Ion: 91 Resp: 30070
Ion Ratio Lower Upper
91 100
126 29.3 11.4 45.6

Manual Integrations
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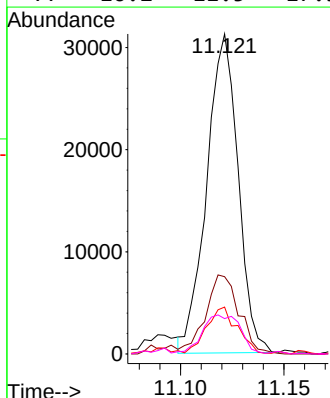
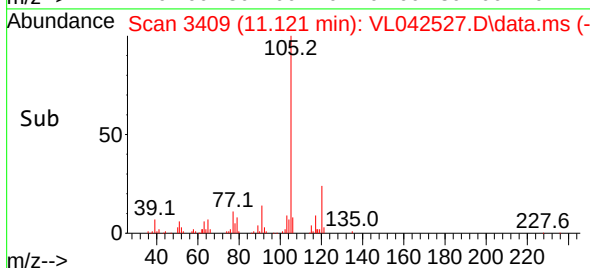
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

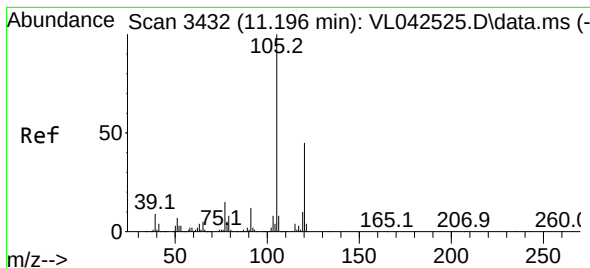


#72
4-Ethyltoluene
Concen: 0.847 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. 0.003 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07



Tgt Ion:105 Resp: 33030
Ion Ratio Lower Upper
105 100
120 28.5 22.9 34.3
91 16.5 10.9 16.3#
77 16.2 11.5 17.3





#73

1,3,5-Trimethylbenzene

Concen: 0.867 ppbv

RT: 11.199 min Scan# 3432

Delta R.T. 0.003 min

Lab File: VL042527.D

Acq: 12 May 2025 10:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion:105 Resp: 2944

Ion Ratio Lower Upper

105 100

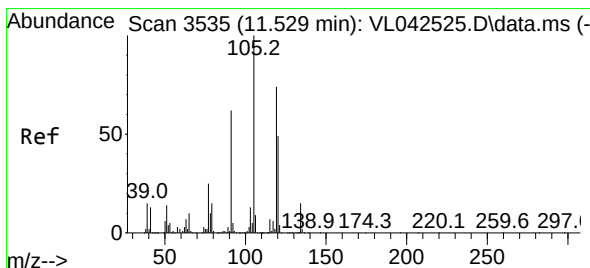
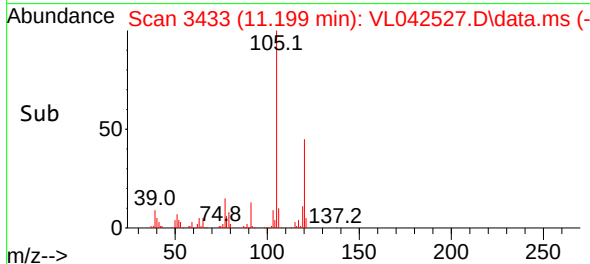
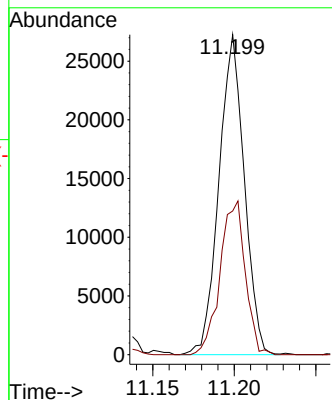
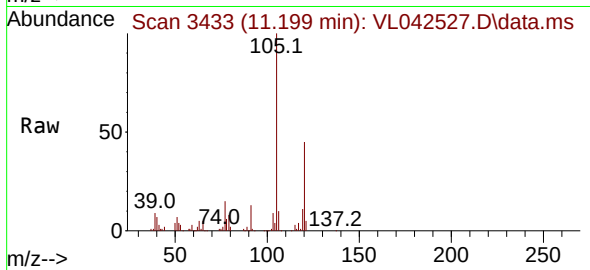
120 44.9 36.0 54.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025

Supervised By :Mahesh Dadoda 05/14/2025



#74

1,2,4-Trimethylbenzene

Concen: 0.970 ppbv

RT: 11.532 min Scan# 3536

Delta R.T. 0.003 min

Lab File: VL042527.D

Acq: 12 May 2025 10:07

Tgt Ion:105 Resp: 40544

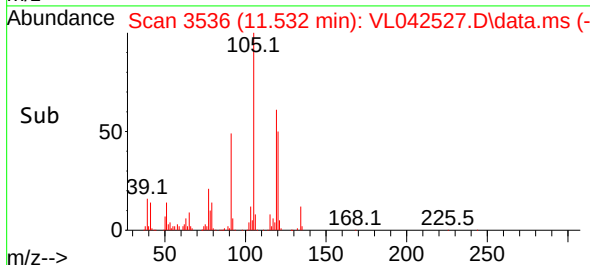
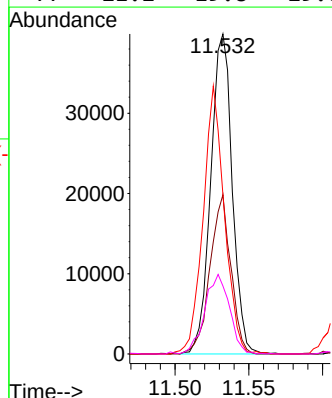
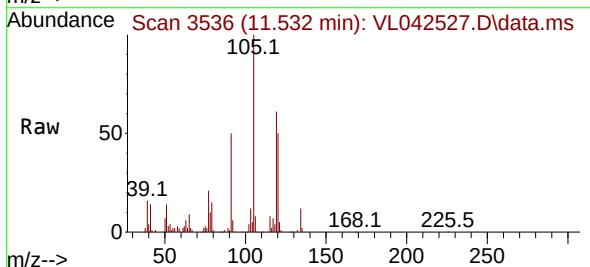
Ion Ratio Lower Upper

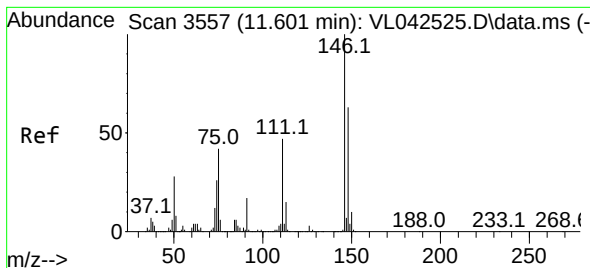
105 100

120 49.7 39.0 58.6

91 49.8 49.4 74.2

77 21.2 19.8 29.6





#75

1,3-Dichlorobenzene

Concen: 0.994 ppbv

RT: 11.600 min Scan# 3557

Delta R.T. -0.000 min

Lab File: VL042527.D

Acq: 12 May 2025 10:07

Instrument :

MSVOA_L

ClientSampleId :

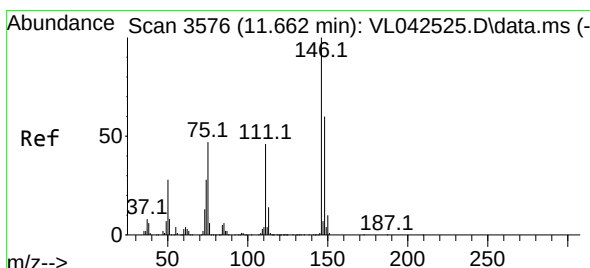
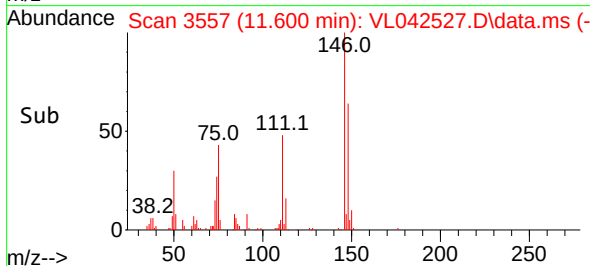
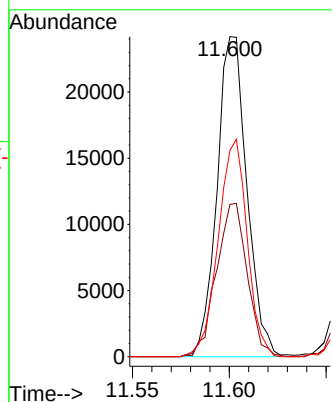
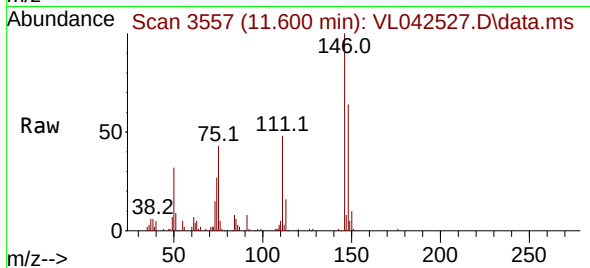
VSTDIC001

Tgt Ion:	146	Resp:	26018
Ion Ratio	Lower	Upper	
146	100		
111	49.3	23.6	71.0
148	65.6	31.6	94.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#76

1,4-Dichlorobenzene

Concen: 0.947 ppbv

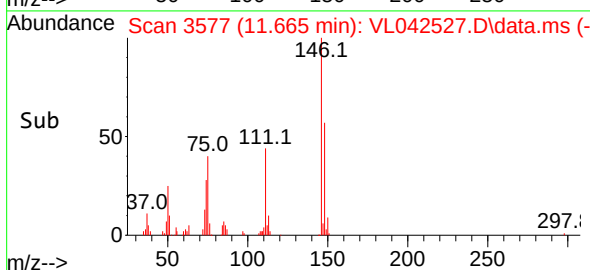
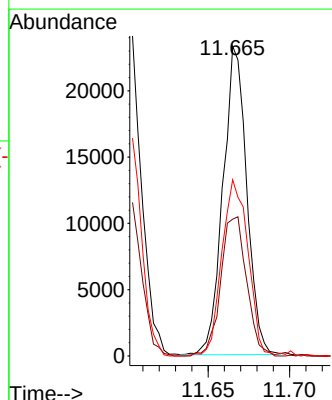
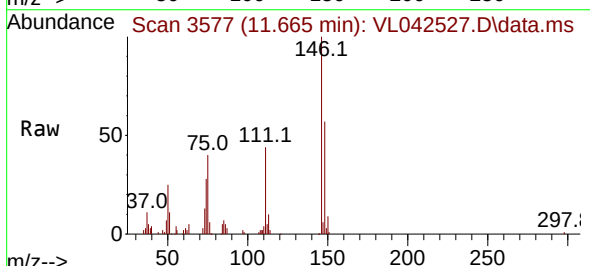
RT: 11.665 min Scan# 3577

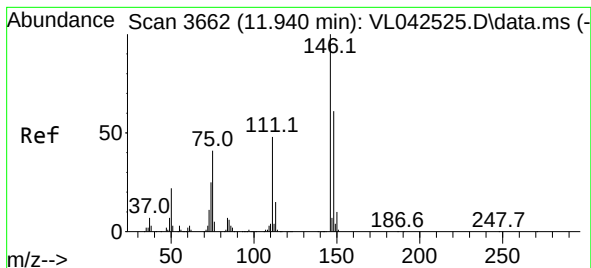
Delta R.T. 0.003 min

Lab File: VL042527.D

Acq: 12 May 2025 10:07

Tgt Ion:	146	Resp:	23564
Ion Ratio	Lower	Upper	
146	100		
111	49.1	23.4	70.3
148	63.4	31.6	94.7





#77

1,2-Dichlorobenzene

Concen: 0.998 ppbv

RT: 11.940 min Scan# 3662

Delta R.T. -0.000 min

Lab File: VL042527.D

Acq: 12 May 2025 10:07

Instrument :

MSVOA_L

ClientSampleId :

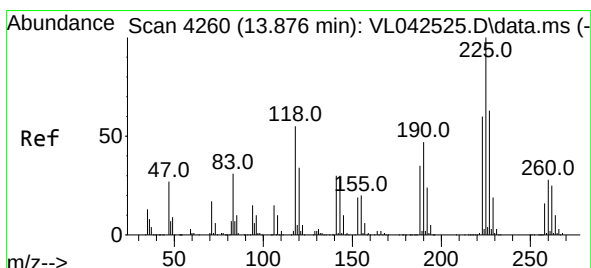
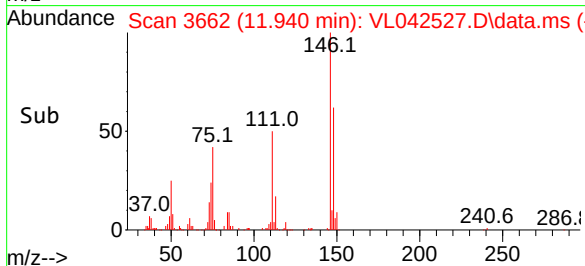
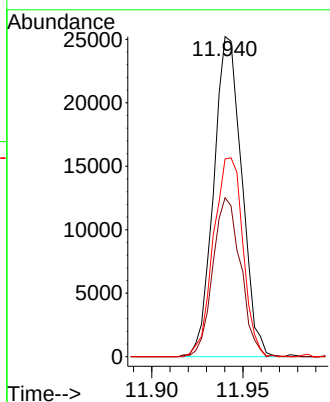
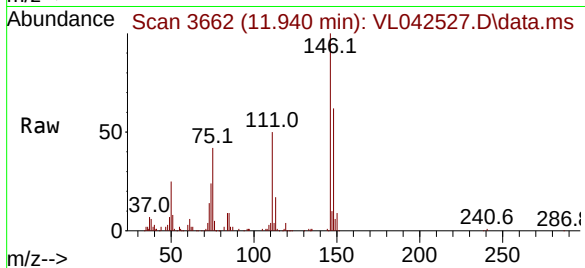
VSTDIC001

Tgt Ion:	146	Resp:	2697
Ion Ratio	Lower	Upper	
146	100		
111	49.1	24.9	74.8
148	65.4	31.4	94.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#78

Hexachloro-1,3-Butadiene

Concen: 1.028 ppbv

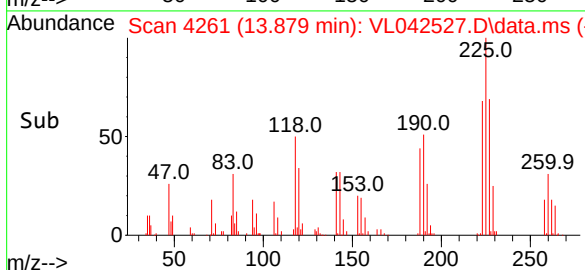
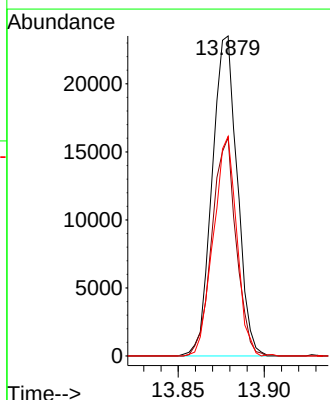
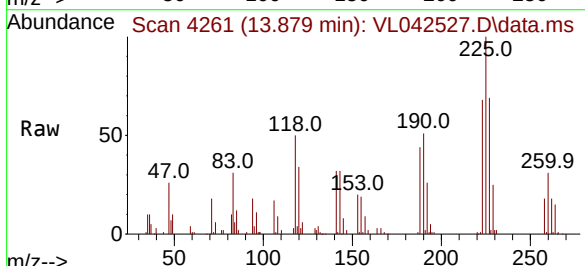
RT: 13.879 min Scan# 4261

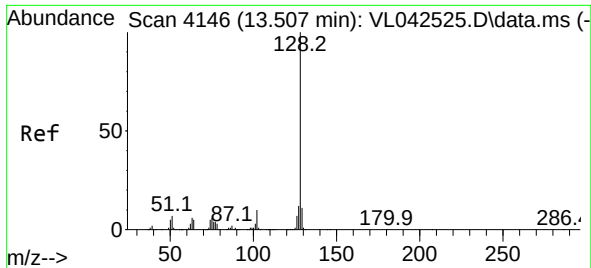
Delta R.T. 0.003 min

Lab File: VL042527.D

Acq: 12 May 2025 10:07

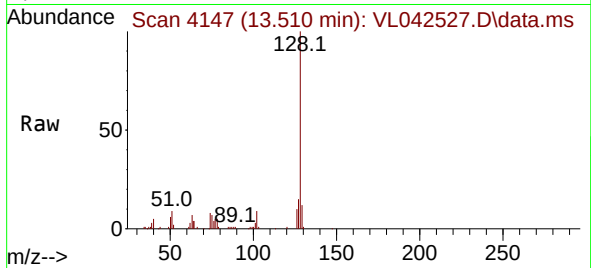
Tgt Ion:	225	Resp:	23824
Ion Ratio	Lower	Upper	
225	100		
223	65.5	50.8	76.2
227	64.1	50.5	75.7





#79
Naphthalene
Concen: 0.846 ppbv
RT: 13.510 min Scan# 4146
Delta R.T. 0.003 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

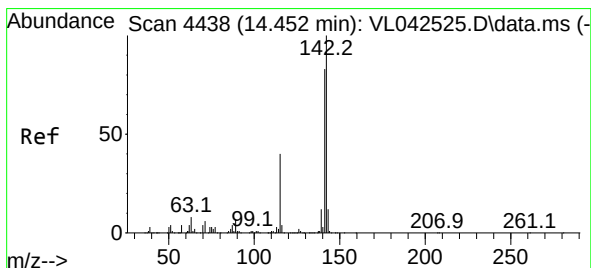
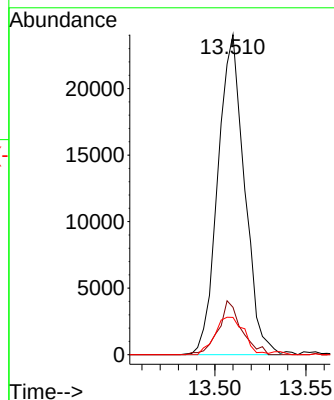
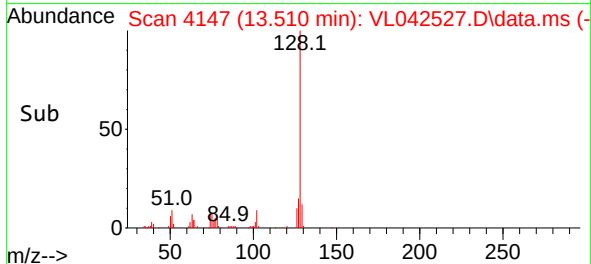
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



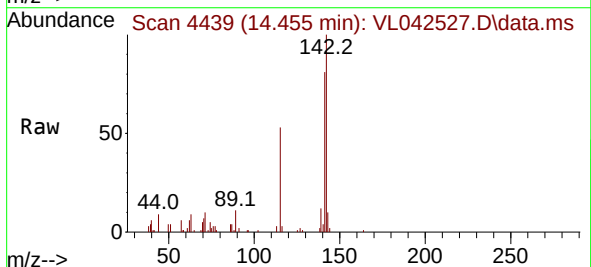
Tgt Ion:128 Resp: 24409
Ion Ratio Lower Upper
128 100
127 14.8 9.8 14.8
129 11.7 8.6 12.8

Manual Integrations
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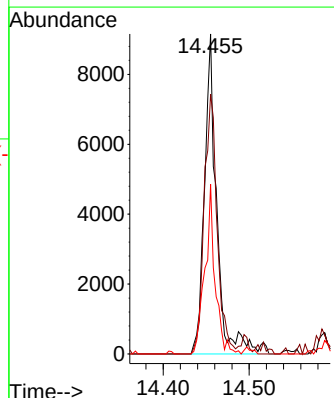
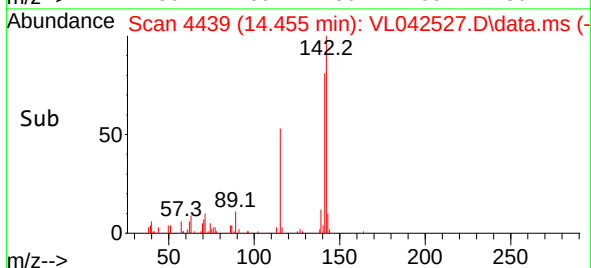
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

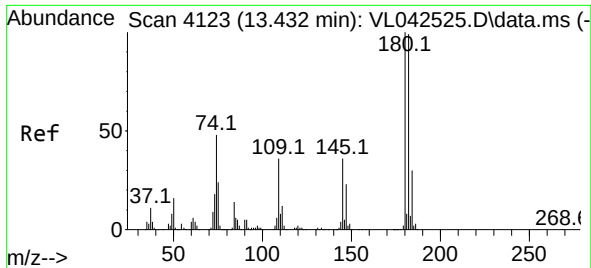


#80
Naphthalene,2-methyl-
Concen: 0.541 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. 0.003 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07



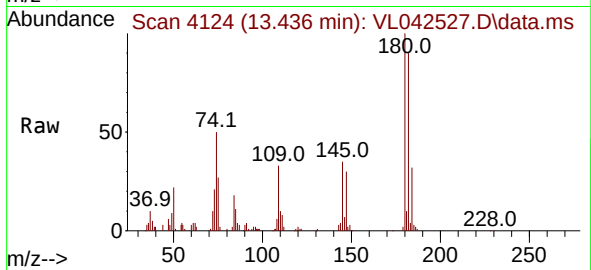
Tgt Ion:142 Resp: 9088
Ion Ratio Lower Upper
142 100
141 85.9 66.8 100.2
115 44.2 33.0 49.6





#81
 1,2,4-Trichlorobenzene
 Concen: 0.829 ppbv
 RT: 13.436 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL042527.D
 Acq: 12 May 2025 10:07

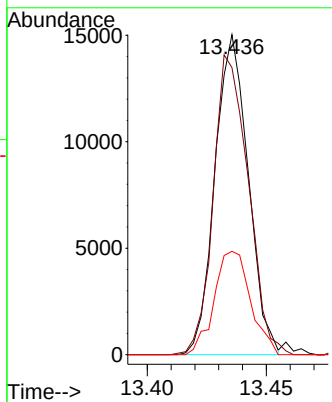
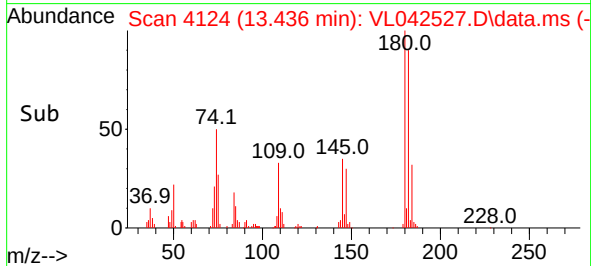
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



Tgt Ion:180 Resp: 14600
 Ion Ratio Lower Upper
 180 100
 182 98.0 76.6 114.8
 184 35.3 24.6 36.8

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051225\
 Data File : VL042528.D
 Acq On : 12 May 2025 10:41
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 05/14/2025
 Supervised By : Mahesh Dadoda 05/14/2025

Quant Time: May 12 23:47:58 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M

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

QLast Update : Mon May 12 23:42:45 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.777	49	103645	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.946	114	291247	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	246447	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.367 95 217536 10.145 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.492	85	9514	0.565	ppbv	99
3) Chlorodifluoromethane	1.470	51	8566	0.499	ppbv	95
4) Chloromethane	1.528	50	3614	0.526	ppbv #	85
5) Vinyl Chloride	1.573	62	3669	0.522	ppbv	89
6) Bromomethane	1.661	94	1851	0.555	ppbv	88
7) Chloroethane	1.696	64	1420	0.513	ppbv #	78
8) Dichlorotetrafluoroethane	1.550	85	8379	0.579	ppbv	88
9) Propene	1.479	41	2647	0.711	ppbv #	1
10) Heptane	4.968	43	6139m	0.432	ppbv	
11) Trichlorofluoromethane	1.871	101	8790	0.543	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.130	101	7332	0.564	ppbv	98
13) Ethanol	1.719	45	696	0.684	ppbv	68
14) Bromoethene	1.774	108	2341	0.494	ppbv #	92
15) Acetone	1.832	43	10451m	0.631	ppbv	
16) 1,3-Butadiene	1.602	39	4136	0.555	ppbv	92
17) tert-Butyl alcohol	2.036	59	8145	0.532	ppbv	96
18) 1,1-Dichloroethene	2.026	96	3167m	0.556	ppbv	
19) Isopropyl Alcohol	1.881	45	5254	0.584	ppbv #	98
20) Methylene Chloride	2.055	84	3987	0.691	ppbv #	74
21) Allyl Chloride	2.091	41	5485	0.500	ppbv #	84
22) trans-1,2-Dichloroethene	2.334	96	3615	0.542	ppbv	95
23) Vinyl Acetate	2.453	43	9366	0.540	ppbv #	91
24) 1,1-Dichloroethane	2.402	63	6774	0.525	ppbv	99
25) Ethyl Acetate	2.832	43	13222m	0.455	ppbv	
26) Hexane	2.819	57	4939	0.414	ppbv #	78
27) Carbon Disulfide	2.143	76	7953	0.516	ppbv #	1
28) Methyl tert-Butyl Ether	2.434	73	3573	0.539	ppbv #	87
29) Chloroform	2.842	83	13265	0.536	ppbv	87
30) Cyclohexane	3.845	84	4336m	0.442	ppbv	
31) cis-1,2-Dichloroethene	2.712	61	6890	0.511	ppbv	89
32) 1,1,1-Trichloroethane	3.353	97	12360	0.495	ppbv	95
34) 2-Butanone	2.554	43	9997	0.521	ppbv	93
35) Carbon Tetrachloride	3.748	117	12876m	0.492	ppbv	
36) Benzene	3.645	78	12733	0.493	ppbv #	94
37) 1,2-Dichloroethane	3.208	62	9449	0.513	ppbv	98
38) Trichloroethene	4.528	130	4849m	0.440	ppbv	
39) 1,2-Dichloropropane	4.305	63	5033m	0.524	ppbv	
40) 1,4-Dioxane	4.599	88	2013m	0.526	ppbv	
41) Tetrahydrofuran	3.052	42	3180m	0.384	ppbv	
42) Bromodichloromethane	4.470	83	12586m	0.513	ppbv	
43) Methyl Methacrylate	4.871	69	3499m	0.406	ppbv	
44) 2,2,4-Trimethylpentane	4.625	57	17528m	0.432	ppbv	
45) t-1,3-Dichloropropene	6.389	75	4770m	0.433	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051225\
 Data File : VL042528.D
 Acq On : 12 May 2025 10:41
 Operator : SY/MD
 Sample : VSTDIC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025

Quant Time: May 12 23:47:58 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M

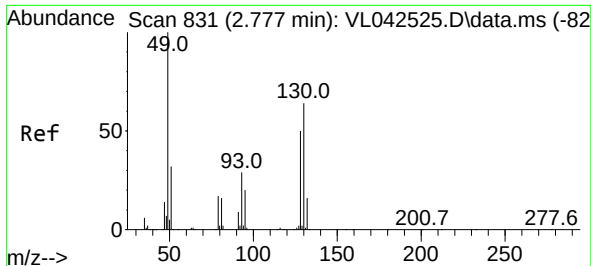
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Mon May 12 23:42:45 2025

Response via : Initial Calibration

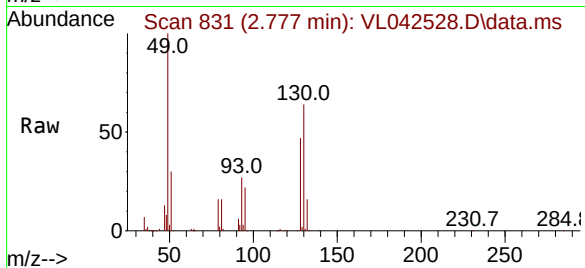
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.580	75	5788m	0.436	ppbv	
47) 1,1,2-Trichloroethane	6.564	97	6332m	0.560	ppbv	
48) Dibromochloromethane	7.370	129	8855m	0.468	ppbv	
49) Bromoform	9.474	173	7130	0.460	ppbv	98
50) 4-Methyl-2-Pentanone	5.755	43	9040m	0.402	ppbv	
51) 2-Hexanone	7.428	43	5937m	0.355	ppbv	
52) Tetrachloroethene	8.208	164	4752m	0.478	ppbv	
53) Toluene	6.920	91	10479m	0.414	ppbv	
54) 1,2-Dibromoethane	7.635	107	8089m	0.489	ppbv	
56) 1,1,1,2-Tetrachloroethane	8.917	131	8150	0.533	ppbv #	1
57) Chlorobenzene	8.907	112	12888	0.521	ppbv #	94
58) Ethyl Benzene	9.348	91	12895	0.384	ppbv	100
59) m/p-Xylene	9.519	91	21373m	0.715	ppbv	
60) o-Xylene	9.950	91	9922m	0.341	ppbv	
61) Styrene	9.859	104	3669m	0.342	ppbv	
62) Isopropylbenzene	10.532	105	16603	0.378	ppbv	97
63) 1,1,2,2-Tetrachloroethane	9.956	83	11693	0.501	ppbv	99
64) n-propylbenzene	10.985	120	3813m	0.343	ppbv	
65) tert-Butylbenzene	11.523	119	13867	0.344	ppbv #	95
66) Benzyl Chloride	11.603	91	2476m	0.464	ppbv	
67) sec-Butylbenzene	11.762	105	21235	0.368	ppbv	100
69) p-Isopropyltoluene	11.917	119	15071	0.317	ppbv #	90
70) n-Butylbenzene	12.277	91	15321	0.326	ppbv	95
71) 2-Chlorotoluene	10.895	91	13426	0.404	ppbv	94
72) 4-Ethyltoluene	11.115	105	12284	0.340	ppbv #	93
73) 1,3,5-Trimethylbenzene	11.199	105	10773m	0.342	ppbv	
74) 1,2,4-Trimethylbenzene	11.529	105	13113	0.339	ppbv	96
75) 1,3-Dichlorobenzene	11.600	146	10683	0.440	ppbv	94
76) 1,4-Dichlorobenzene	11.662	146	9591	0.416	ppbv	98
77) 1,2-Dichlorobenzene	11.940	146	12272	0.490	ppbv	99
78) Hexachloro-1,3-Butadiene	13.876	225	11535	0.537	ppbv	96
79) Naphthalene	13.503	128	8133	0.304	ppbv #	92
80) Naphthalene,2-methyl-	14.448	142	2920	0.188	ppbv #	90
81) 1,2,4-Trichlorobenzene	13.435	180	5016	0.307	ppbv	96

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.777 min Scan# 831
Delta R.T. 0.000 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

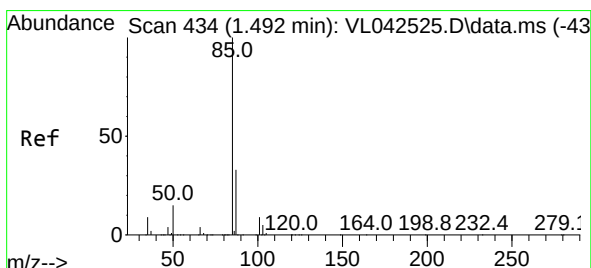
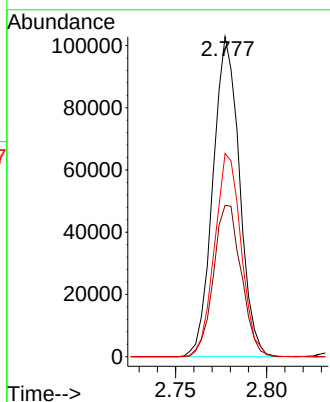
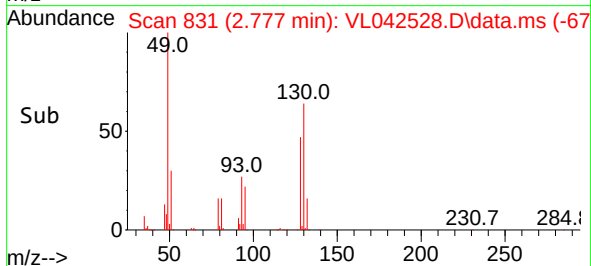
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



Tgt Ion: 49 Resp: 103649
Ion Ratio Lower Upper
49 100
128 49.7 24.9 74.6
130 63.7 32.5 97.5

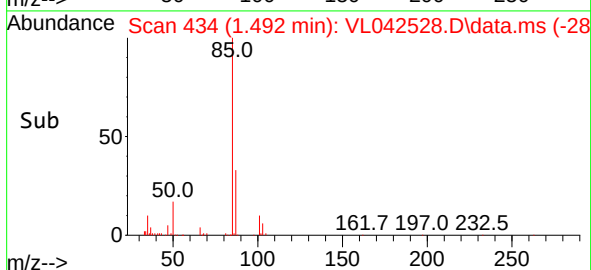
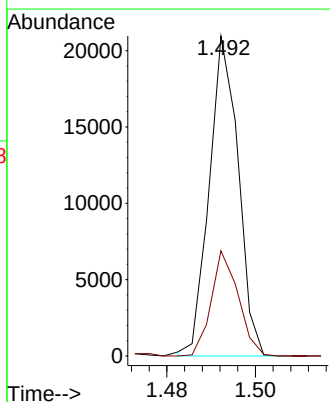
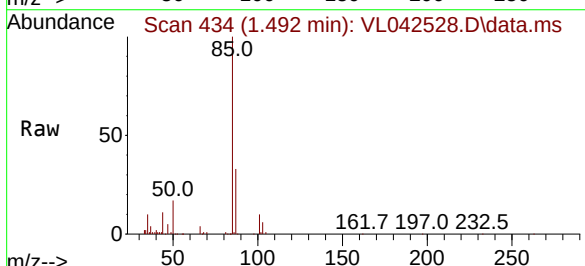
Manual Integrations
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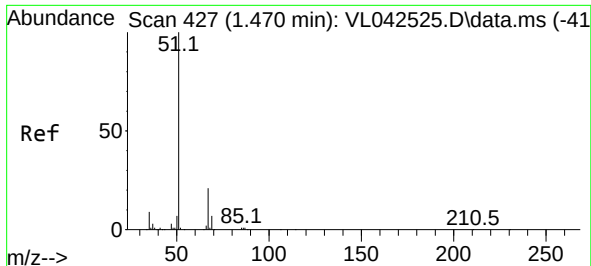
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#2
Dichlorodifluoromethane
Concen: 0.565 ppbv
RT: 1.492 min Scan# 434
Delta R.T. -0.000 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

Tgt Ion: 85 Resp: 9514
Ion Ratio Lower Upper
85 100
87 32.9 26.8 40.2





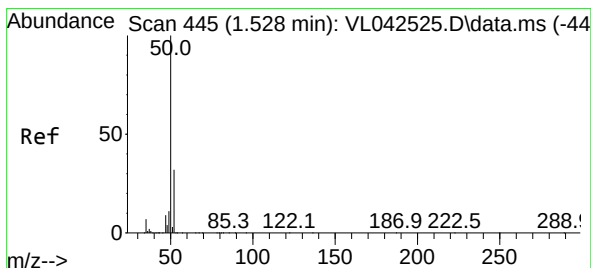
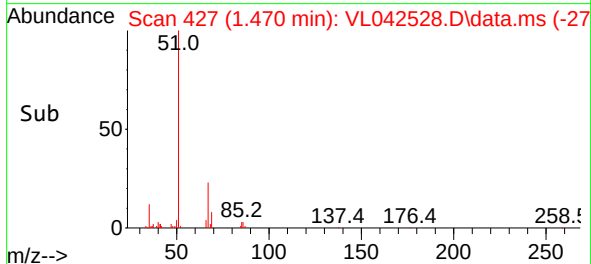
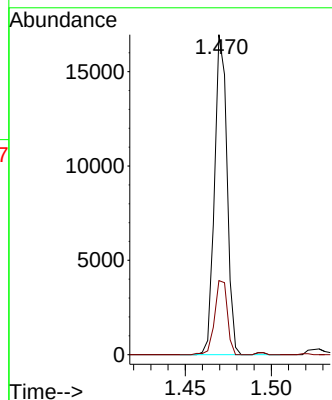
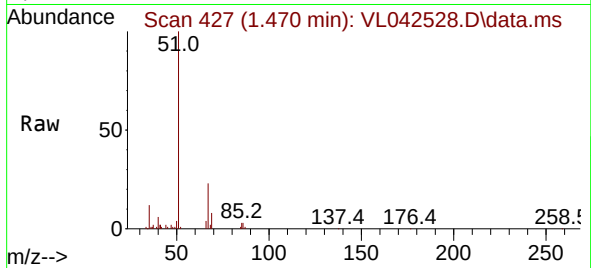
#3
Chlorodifluoromethane
Concen: 0.499 ppbv
RT: 1.470 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 51 Resp: 8560
Ion Ratio Lower Upper
51 100
67 23.9 17.4 26.0

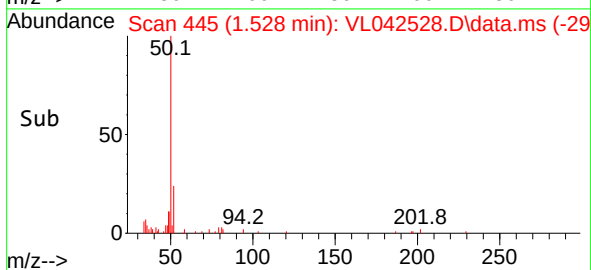
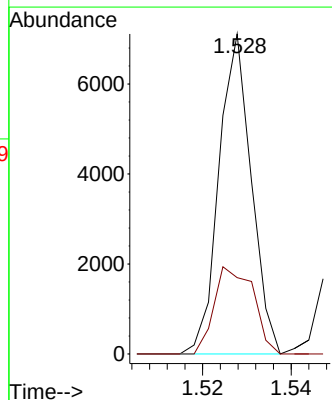
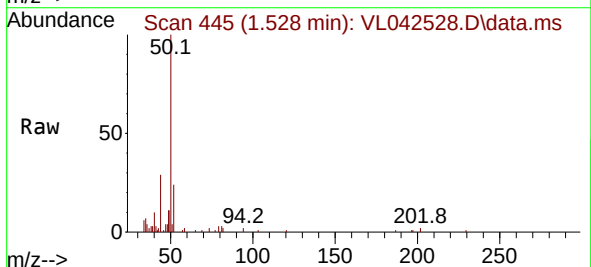
Manual Integrations
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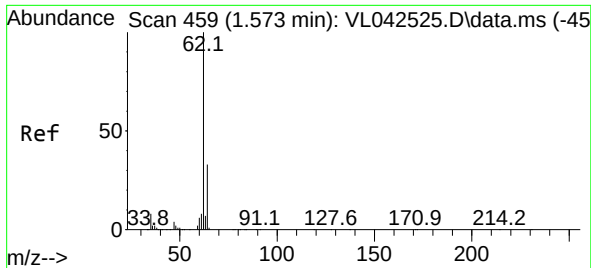
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#4
Chloromethane
Concen: 0.526 ppbv
RT: 1.528 min Scan# 445
Delta R.T. -0.000 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

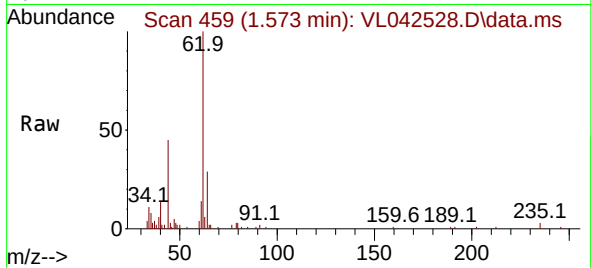
Tgt Ion: 50 Resp: 3614
Ion Ratio Lower Upper
50 100
52 23.9 25.9 38.9#





#5
 Vinyl Chloride
 Concen: 0.522 ppbv
 RT: 1.573 min Scan# 459
 Delta R.T. -0.000 min
 Lab File: VL042528.D
 Acq: 12 May 2025 10:41

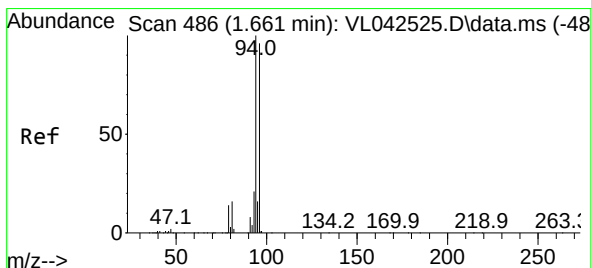
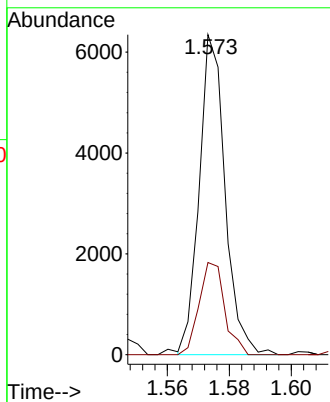
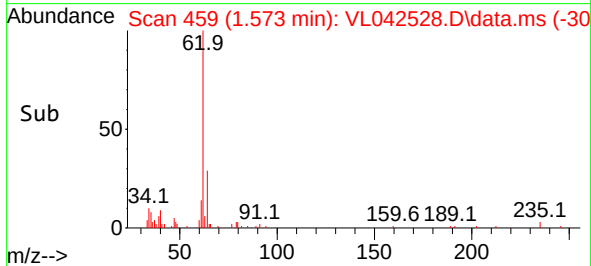
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



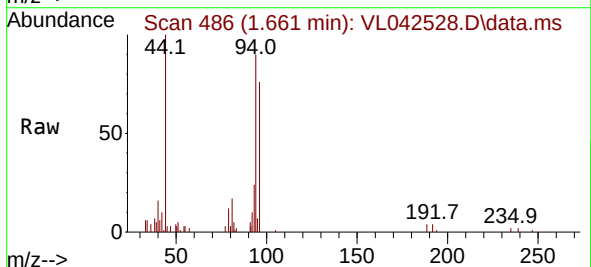
Tgt Ion: 62 Resp: 3669
 Ion Ratio Lower Upper
 62 100
 64 27.1 26.5 39.7

Manual Integrations
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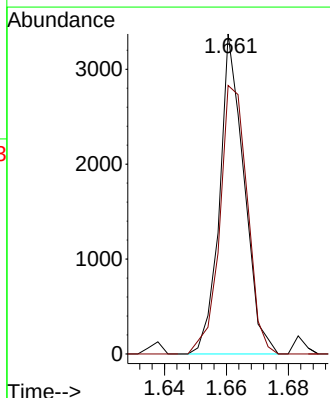
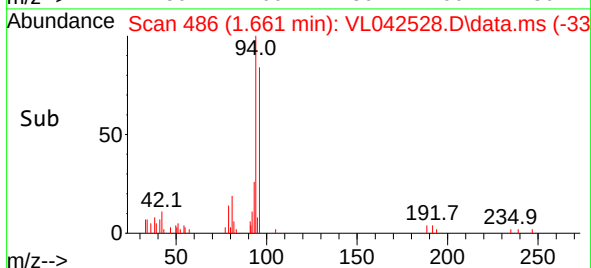
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025

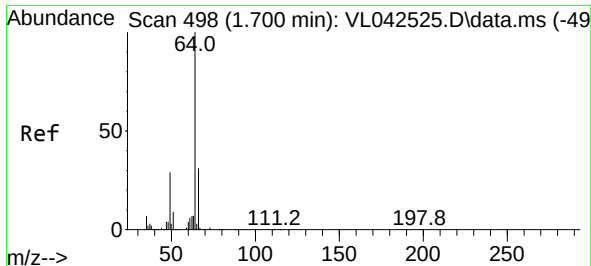


#6
 Bromomethane
 Concen: 0.555 ppbv
 RT: 1.661 min Scan# 486
 Delta R.T. -0.000 min
 Lab File: VL042528.D
 Acq: 12 May 2025 10:41



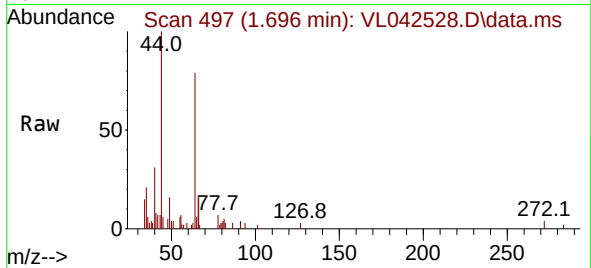
Tgt Ion: 94 Resp: 1851
 Ion Ratio Lower Upper
 94 100
 96 83.9 76.9 115.3





#7
Chloroethane
Concen: 0.513 ppbv
RT: 1.696 min Scan# 498
Delta R.T. -0.004 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

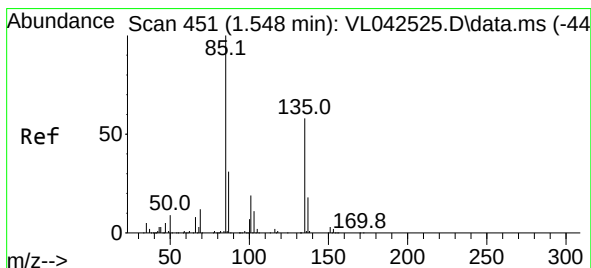
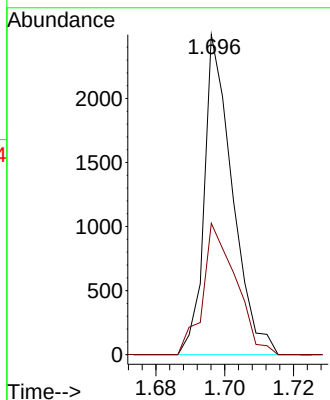
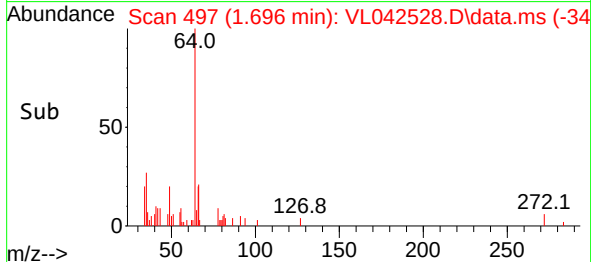
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



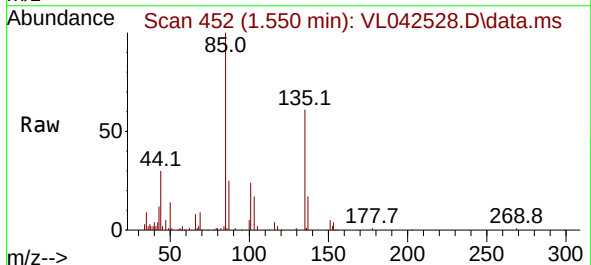
Tgt Ion: 64 Resp: 1420
Ion Ratio Lower Upper
64 100
66 43.6 25.1 37.7

Manual Integrations
APPROVED

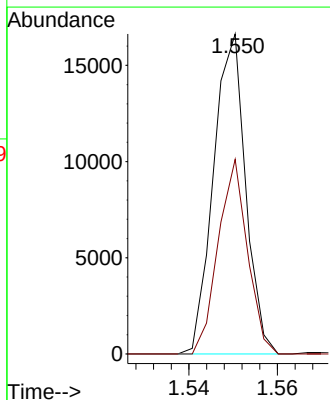
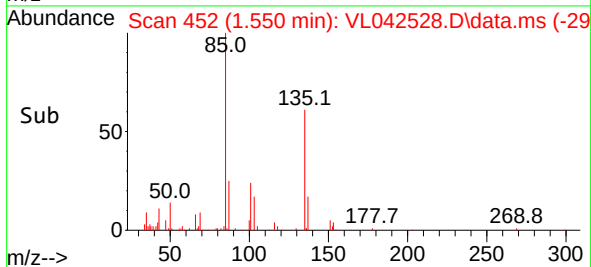
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

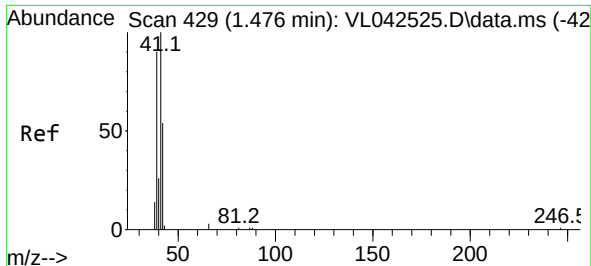


#8
Dichlorotetrafluoroethane
Concen: 0.579 ppbv
RT: 1.550 min Scan# 452
Delta R.T. 0.003 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41



Tgt Ion: 85 Resp: 8379
Ion Ratio Lower Upper
85 100
135 55.5 51.8 77.8





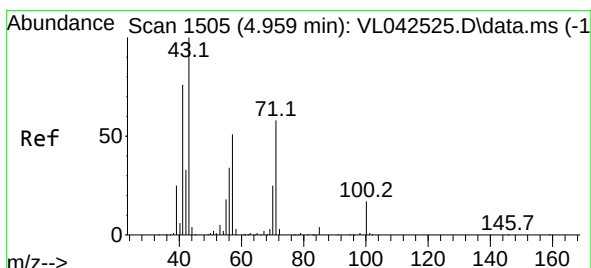
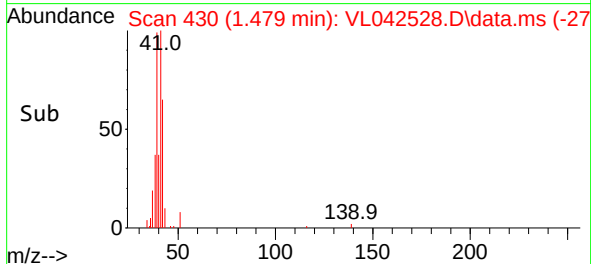
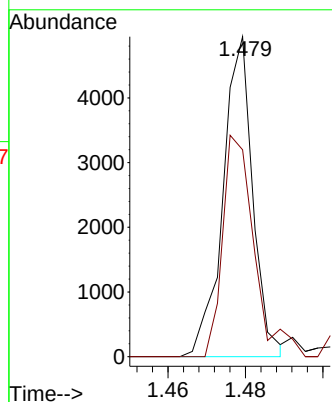
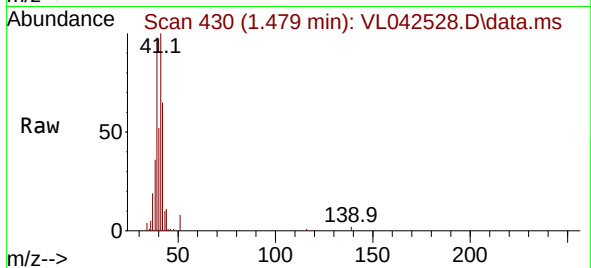
#9
Propene
Concen: 0.711 ppbv
RT: 1.479 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 41 Resp: 264
Ion Ratio Lower Upper
41 100
42 88.5 4.1 6.1

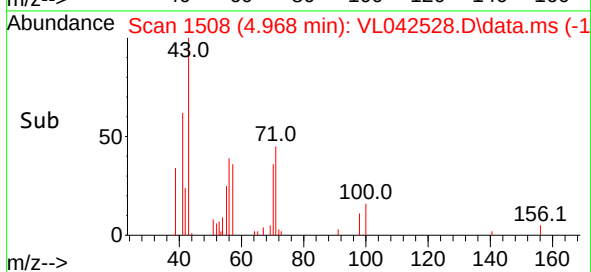
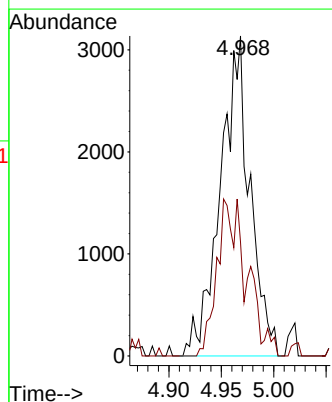
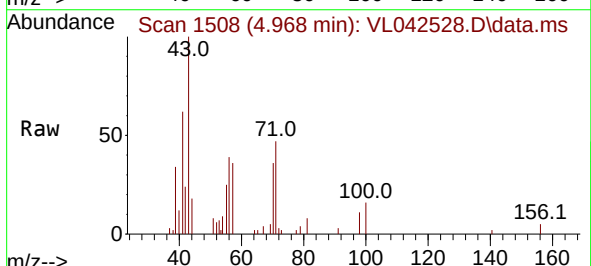
Manual Integrations
APPROVED

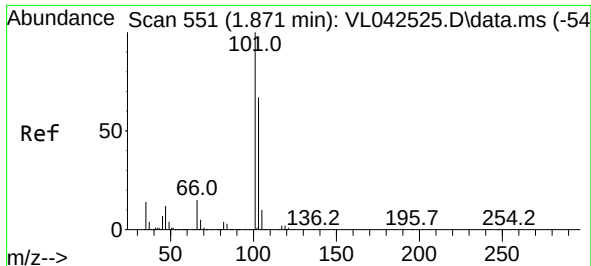
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#10
Heptane
Concen: 0.432 ppbv m
RT: 4.968 min Scan# 1508
Delta R.T. 0.009 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

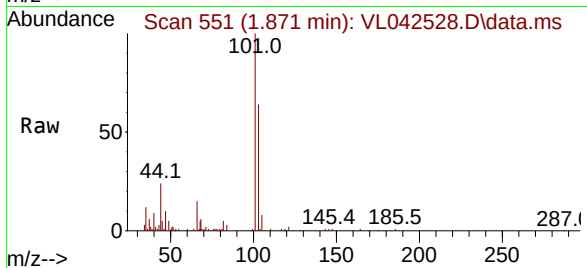
Tgt Ion: 43 Resp: 6139
Ion Ratio Lower Upper
43 100
57 49.0 42.1 63.1





#11
 Trichlorofluoromethane
 Concen: 0.543 ppbv
 RT: 1.871 min Scan# 551
 Delta R.T. -0.000 min
 Lab File: VL042528.D
 Acq: 12 May 2025 10:41

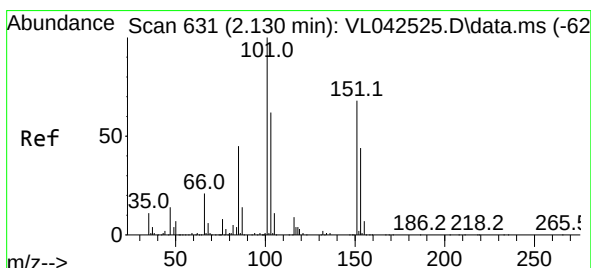
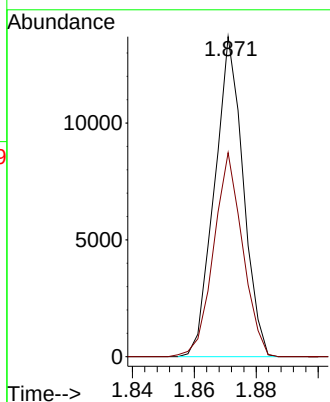
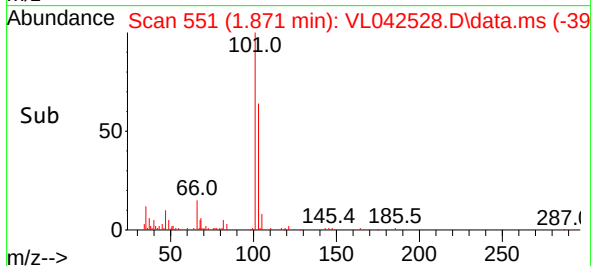
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



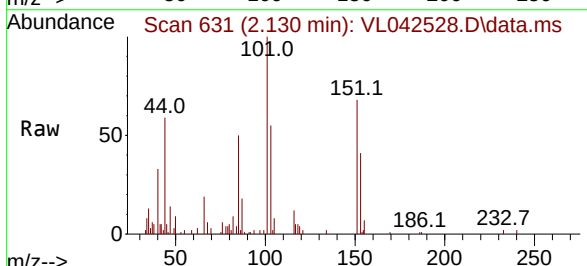
Tgt Ion:101 Resp: 8790
 Ion Ratio Lower Upper
 101 100
 103 63.8 53.8 80.6

Manual Integrations
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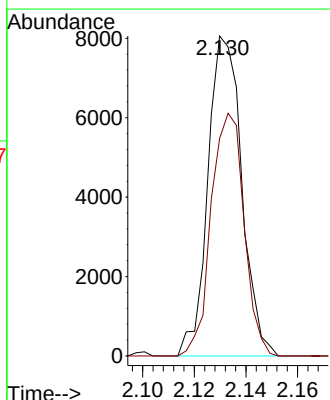
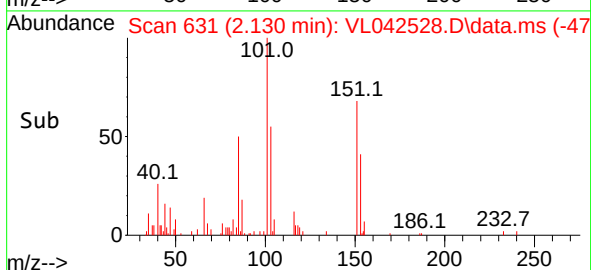
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025

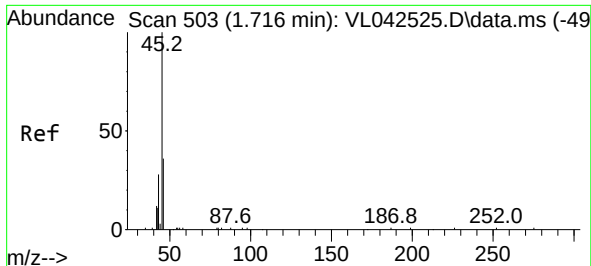


#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.564 ppbv
 RT: 2.130 min Scan# 631
 Delta R.T. -0.000 min
 Lab File: VL042528.D
 Acq: 12 May 2025 10:41



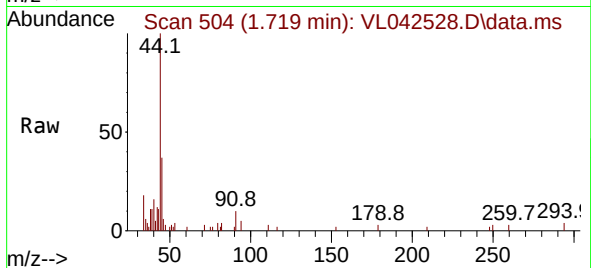
Tgt Ion:101 Resp: 7332
 Ion Ratio Lower Upper
 101 100
 151 73.7 57.8 86.8





#13
Ethanol
Concen: 0.684 ppbv
RT: 1.719 min Scan# 503
Delta R.T. 0.003 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

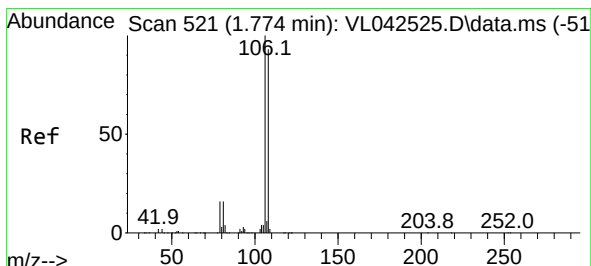
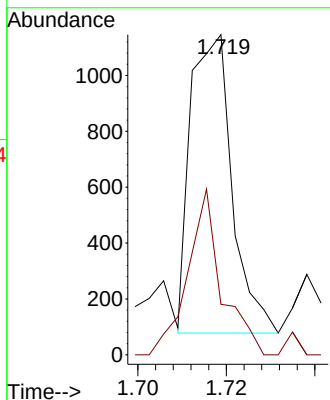
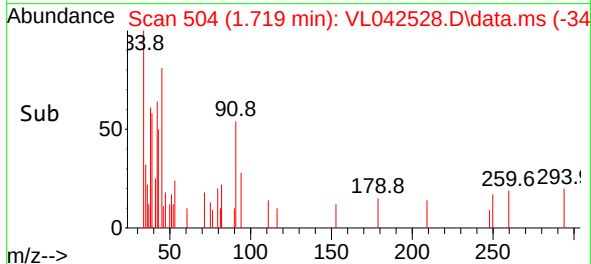
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



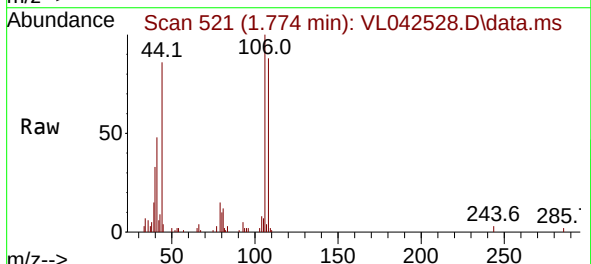
Tgt Ion: 45 Resp: 690
Ion Ratio Lower Upper
45 100
46 56.3 14.8 59.4

Manual Integrations
APPROVED

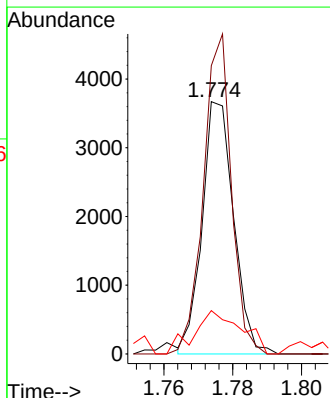
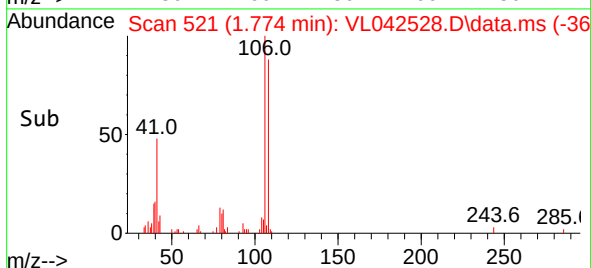
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

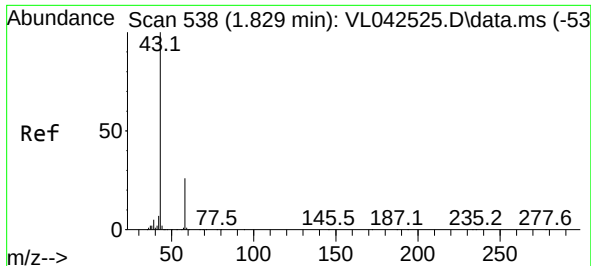


#14
Bromoethene
Concen: 0.494 ppbv
RT: 1.774 min Scan# 521
Delta R.T. -0.000 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41



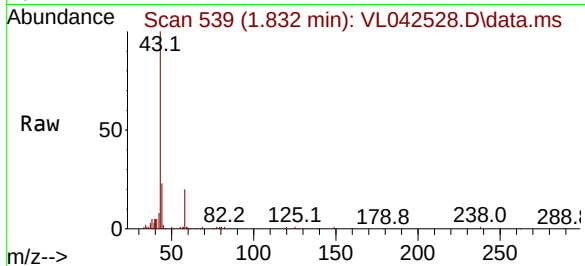
Tgt Ion:108 Resp: 2341
Ion Ratio Lower Upper
108 100
106 112.1 87.4 131.2
79 37.6 15.1 22.7#





#15
Acetone
Concen: 0.631 ppbv m
RT: 1.832 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

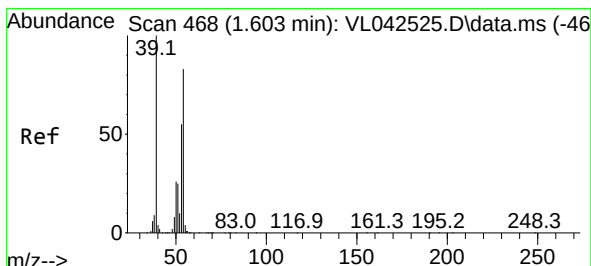
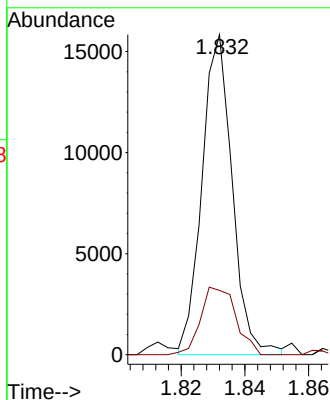
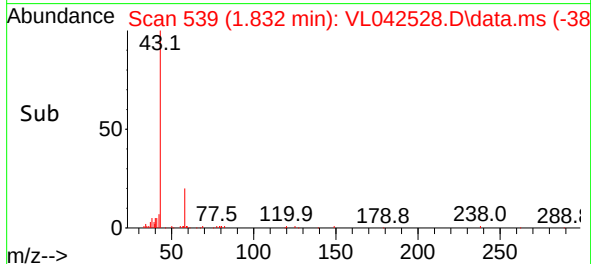
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



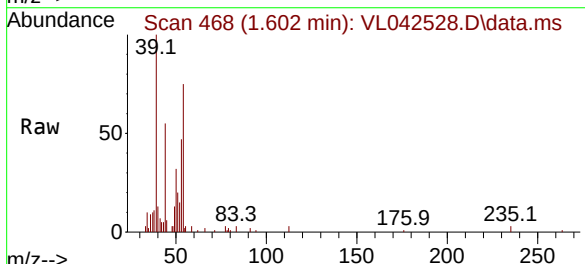
Tgt Ion: 43 Resp: 1045
Ion Ratio Lower Upper
43 100
58 24.9 21.3 31.9

Manual Integrations
APPROVED

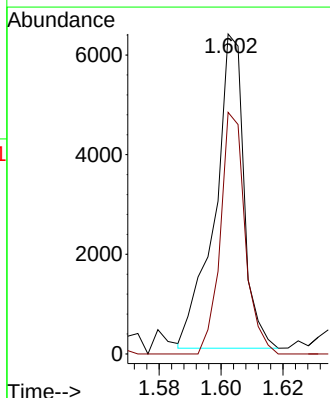
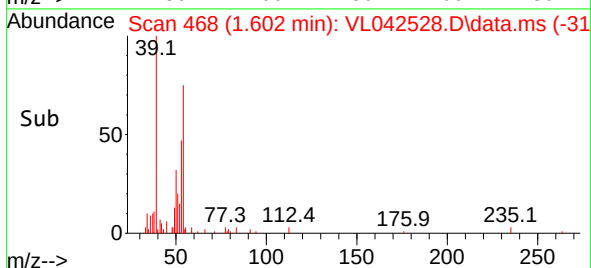
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

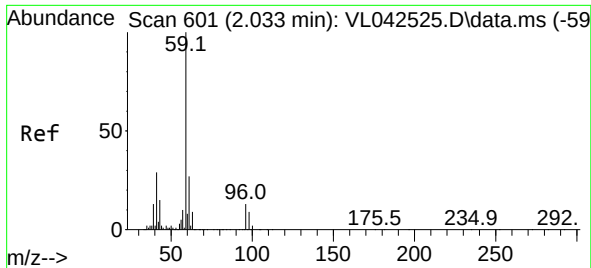


#16
1,3-Butadiene
Concen: 0.555 ppbv
RT: 1.602 min Scan# 468
Delta R.T. -0.000 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41



Tgt Ion: 39 Resp: 4136
Ion Ratio Lower Upper
39 100
54 65.5 57.8 86.6





#17

tert-Butyl alcohol

Concen: 0.532 ppbv

RT: 2.036 min Scan# 601

Delta R.T. 0.003 min

Lab File: VL042528.D

Acq: 12 May 2025 10:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5

Tgt Ion: 59 Resp: 814

Ion Ratio Lower Upper

59 100

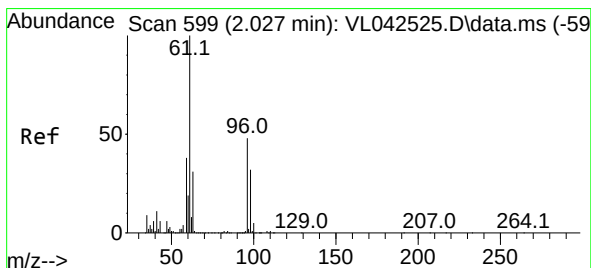
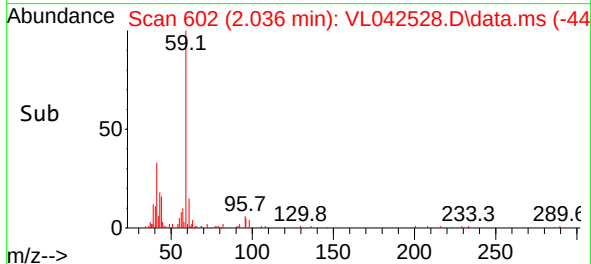
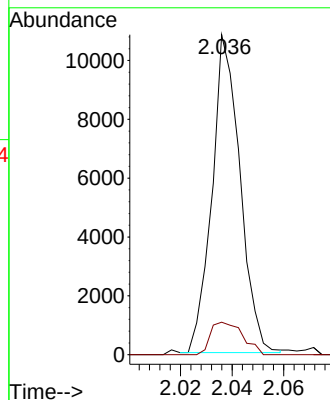
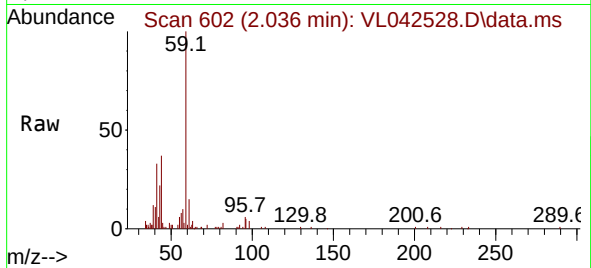
57 11.8 8.2 12.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025

Supervised By :Mahesh Dadoda 05/14/2025



#18

1,1-Dichloroethene

Concen: 0.556 ppbv m

RT: 2.026 min Scan# 599

Delta R.T. -0.000 min

Lab File: VL042528.D

Acq: 12 May 2025 10:41

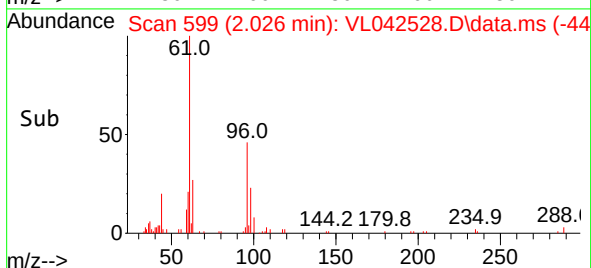
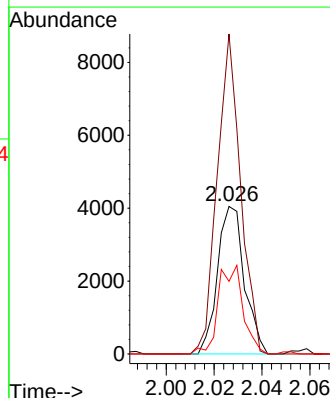
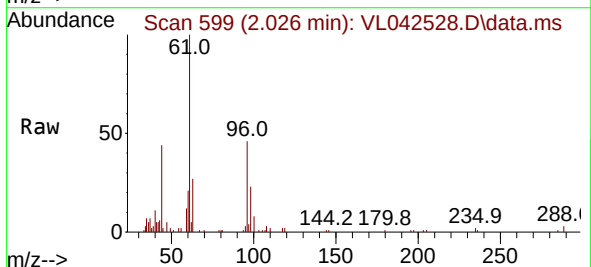
Tgt Ion: 96 Resp: 3167

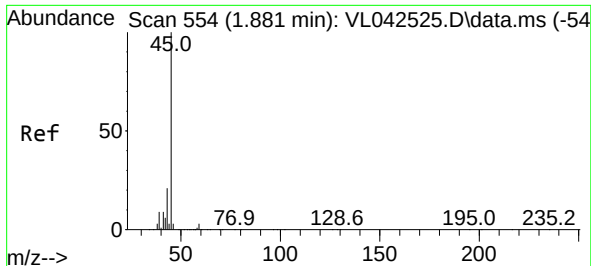
Ion Ratio Lower Upper

96 100

61 216.8 165.0 247.4

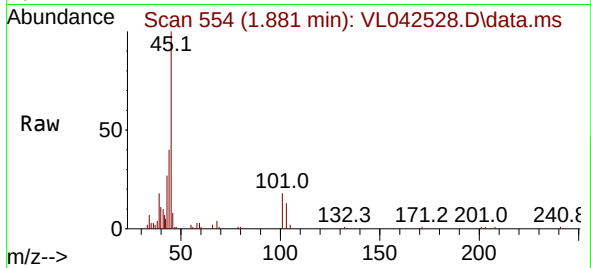
98 49.3 52.6 79.0#





#19
Isopropyl Alcohol
Concen: 0.584 ppbv
RT: 1.881 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

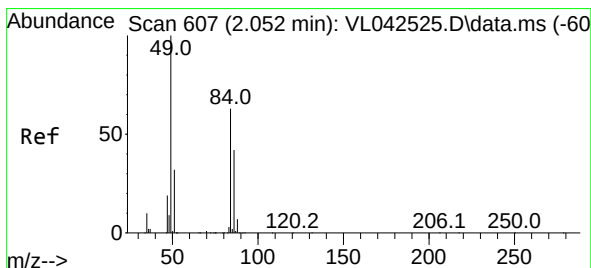
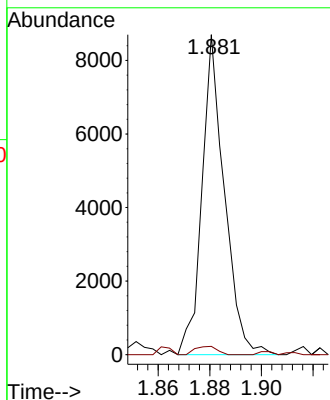
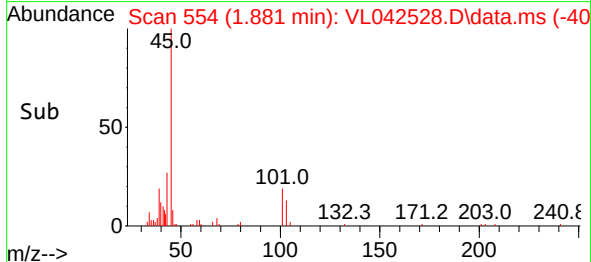
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



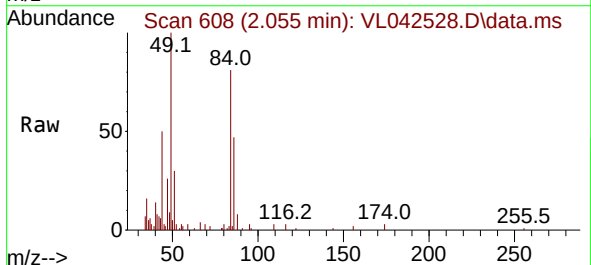
Tgt Ion: 45 Resp: 5254
Ion Ratio Lower Upper
45 100
58 2.6 1.5 2.3

Manual Integrations
APPROVED

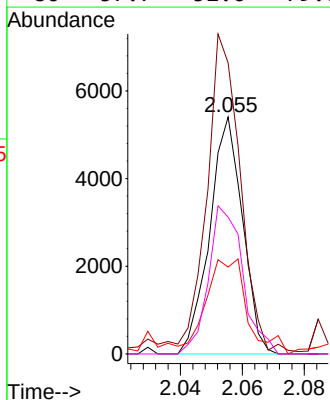
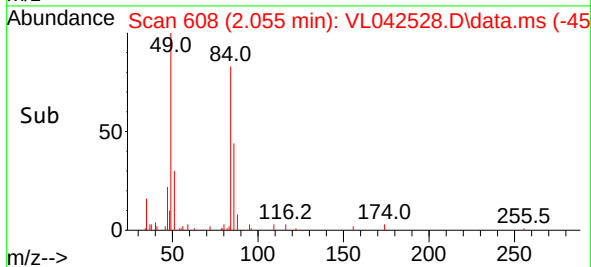
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

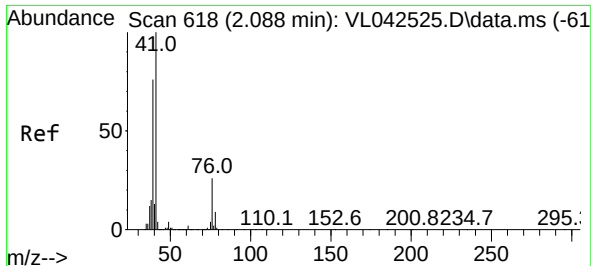


#20
Methylene Chloride
Concen: 0.691 ppbv
RT: 2.055 min Scan# 608
Delta R.T. 0.003 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41



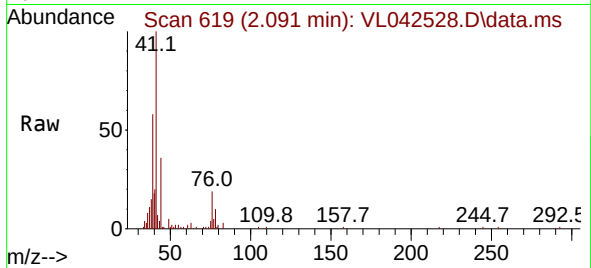
Tgt Ion: 84 Resp: 3987
Ion Ratio Lower Upper
84 100
49 118.7 128.2 192.4#
51 33.4 41.7 62.5#
86 57.7 52.6 79.0





#21
 Allyl Chloride
 Concen: 0.500 ppbv
 RT: 2.091 min Scan# 618
 Delta R.T. 0.003 min
 Lab File: VL042528.D
 Acq: 12 May 2025 10:41

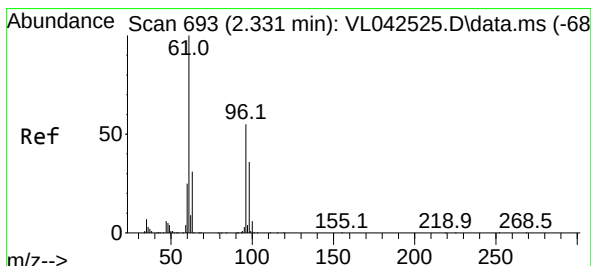
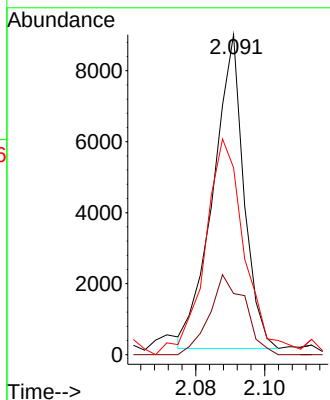
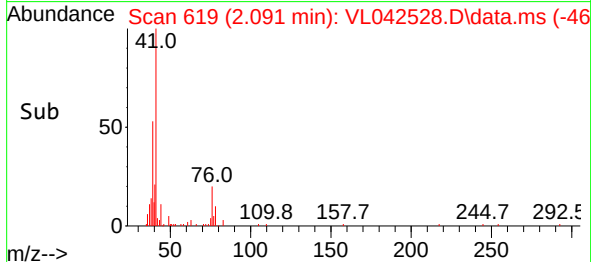
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



Tgt Ion: 41 Resp: 548
 Ion Ratio Lower Upper
 41 100
 76 29.4 22.0 33.0
 39 91.8 59.5 89.3

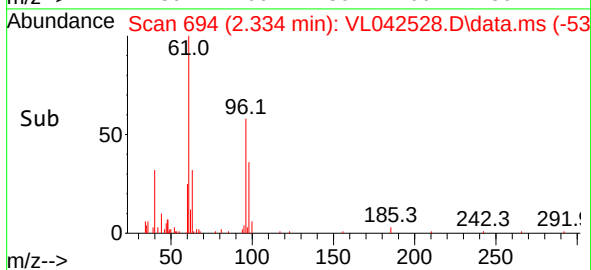
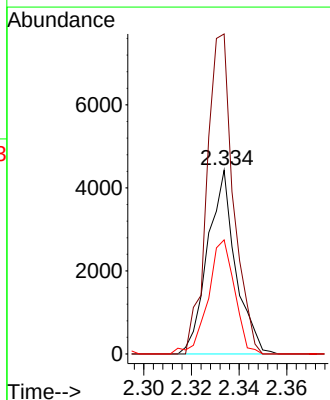
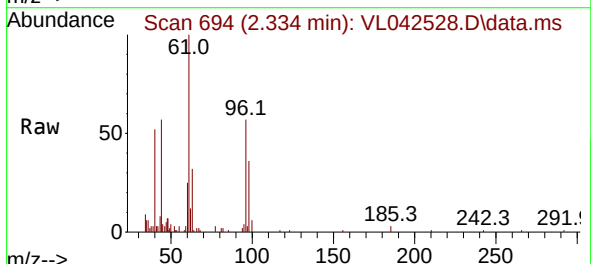
Manual Integrations
 APPROVED

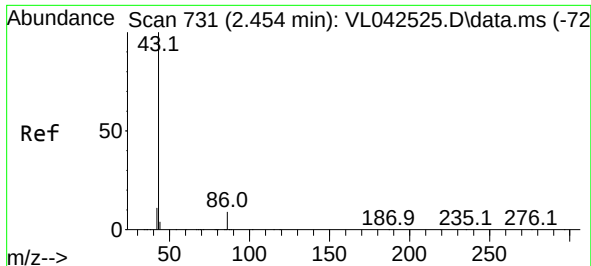
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025



#22
 trans-1,2-Dichloroethene
 Concen: 0.542 ppbv
 RT: 2.334 min Scan# 694
 Delta R.T. 0.003 min
 Lab File: VL042528.D
 Acq: 12 May 2025 10:41

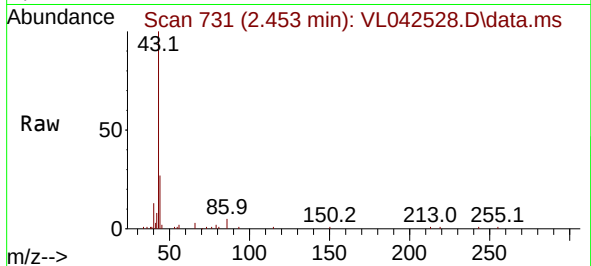
Tgt Ion: 96 Resp: 3615
 Ion Ratio Lower Upper
 96 100
 61 174.1 145.9 218.9
 98 62.1 52.2 78.4





#23
 Vinyl Acetate
 Concen: 0.540 ppbv
 RT: 2.453 min Scan# 715
 Delta R.T. -0.000 min
 Lab File: VL042528.D
 Acq: 12 May 2025 10:41

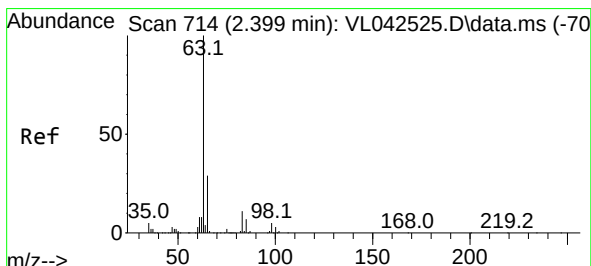
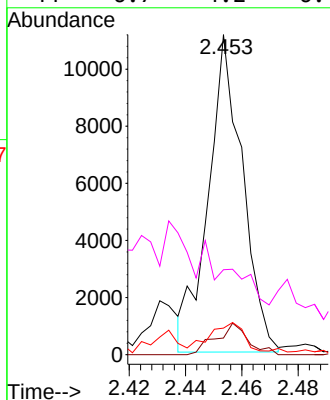
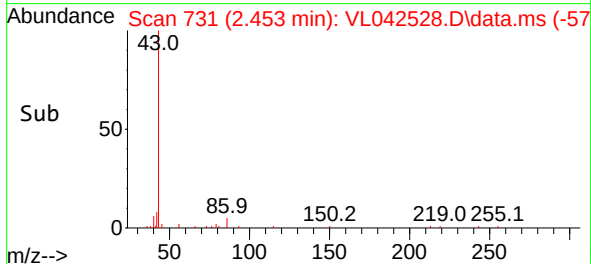
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



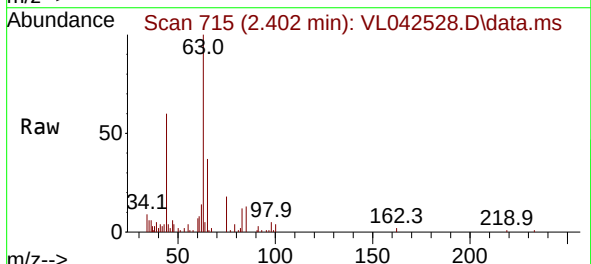
Tgt Ion: 43 Resp: 9360
 Ion Ratio Lower Upper
 43 100
 86 5.3 6.8 10.2
 42 6.5 8.8 13.2
 44 6.7 4.2 6.4

Manual Integrations
 APPROVED

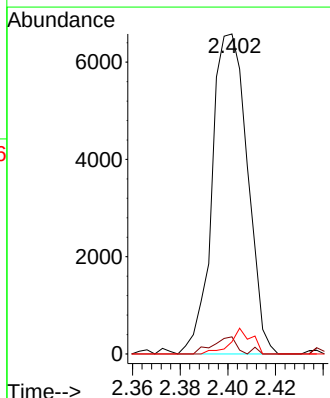
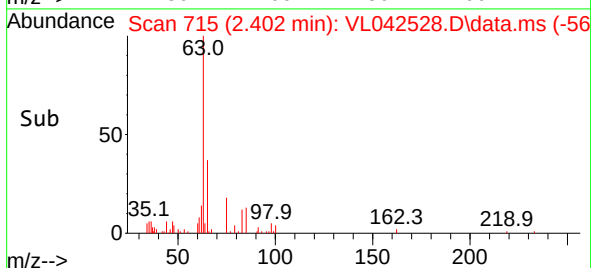
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025

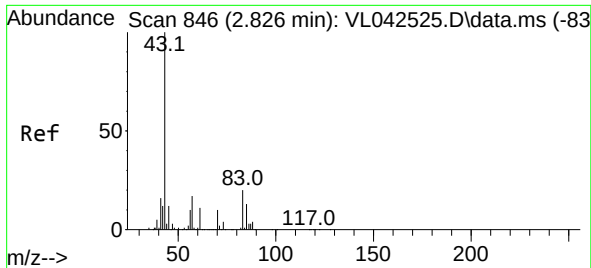


#24
 1,1-Dichloroethane
 Concen: 0.525 ppbv
 RT: 2.402 min Scan# 715
 Delta R.T. 0.003 min
 Lab File: VL042528.D
 Acq: 12 May 2025 10:41



Tgt Ion: 63 Resp: 6774
 Ion Ratio Lower Upper
 63 100
 98 5.1 2.6 8.0
 100 3.6 1.4 4.2





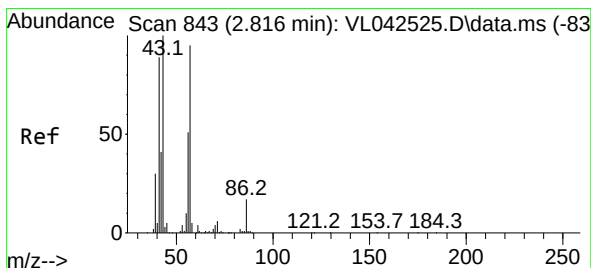
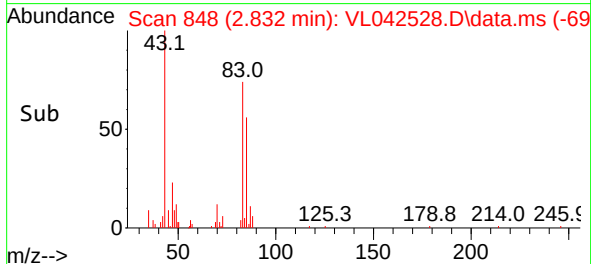
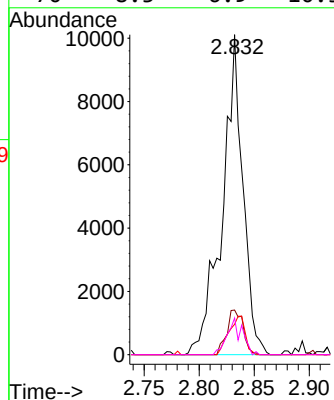
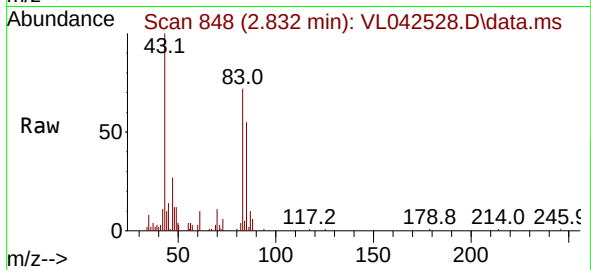
#25
Ethyl Acetate
Concen: 0.455 ppbv m
RT: 2.832 min Scan# 846
Delta R.T. 0.006 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:	43	Resp:	1322
Ion	Ratio	Lower	Upper
43	100		
45	11.0	7.9	11.9
61	9.4	7.1	10.7
70	8.3	6.9	10.3

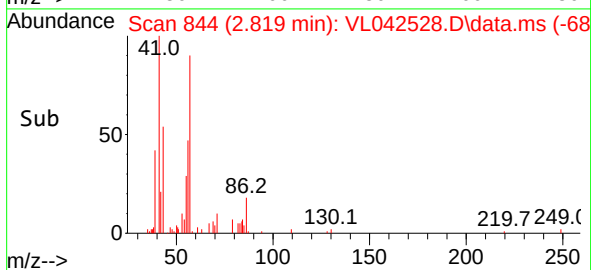
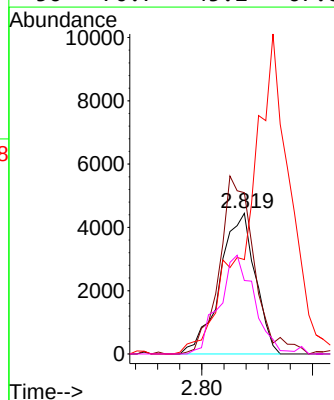
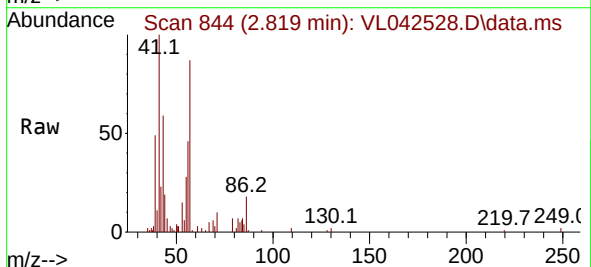
Manual Integrations
APPROVED

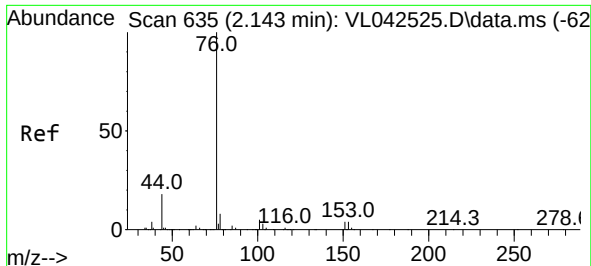
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#26
Hexane
Concen: 0.414 ppbv
RT: 2.819 min Scan# 844
Delta R.T. 0.003 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

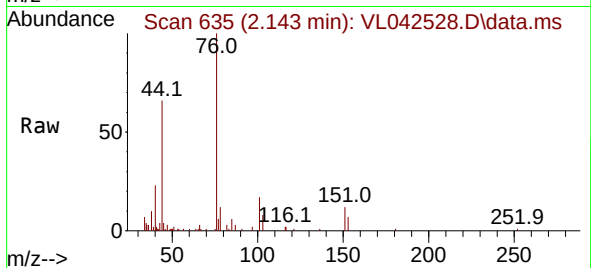
Tgt Ion:	57	Resp:	4939
Ion	Ratio	Lower	Upper
57	100		
41	124.6	76.1	114.1#
43	268.5	188.9	283.3
56	70.7	45.2	67.8#





#27
Carbon Disulfide
Concen: 0.516 ppbv
RT: 2.143 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

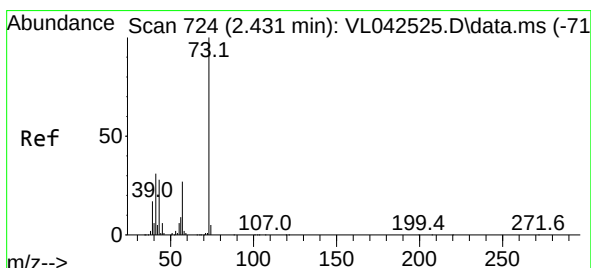
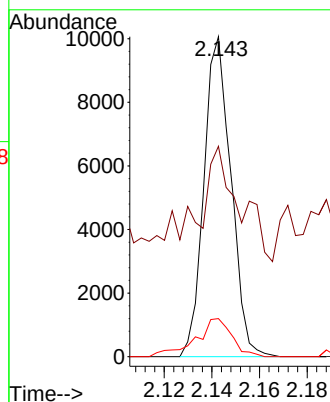
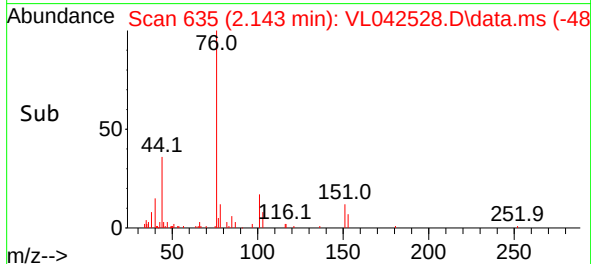
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



Tgt Ion: 76 Resp: 795
Ion Ratio Lower Upper
76 100
44 130.4 17.1 25.7
78 15.9 8.6 12.8

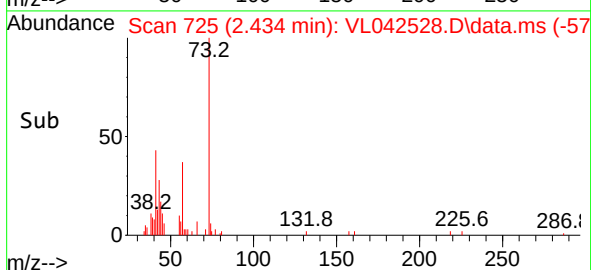
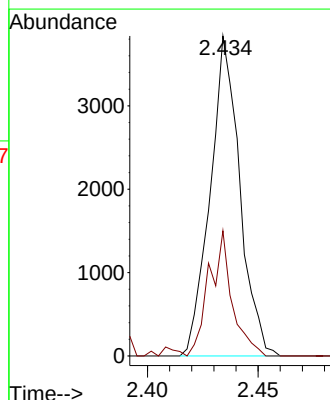
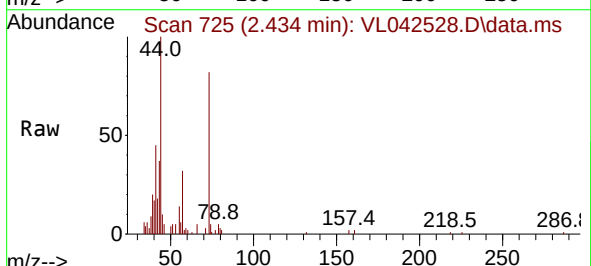
Manual Integrations
APPROVED

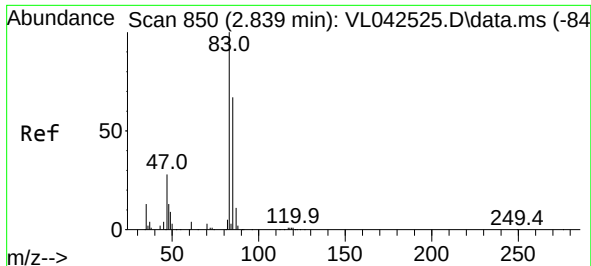
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#28
Methyl tert-Butyl Ether
Concen: 0.539 ppbv
RT: 2.434 min Scan# 725
Delta R.T. 0.003 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

Tgt Ion: 73 Resp: 3573
Ion Ratio Lower Upper
73 100
57 31.9 20.3 30.5





#29

Chloroform

Concen: 0.536 ppbv

RT: 2.842 min Scan# 851

Delta R.T. 0.003 min

Lab File: VL042528.D

Acq: 12 May 2025 10:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 83 Resp: 1326

Ion Ratio Lower Upper

83 100

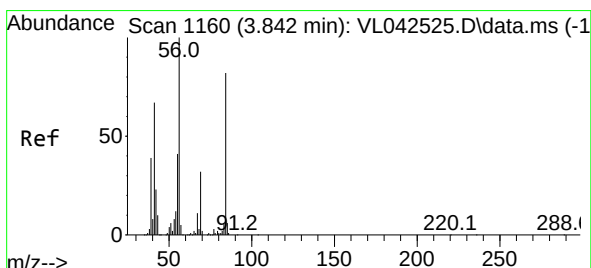
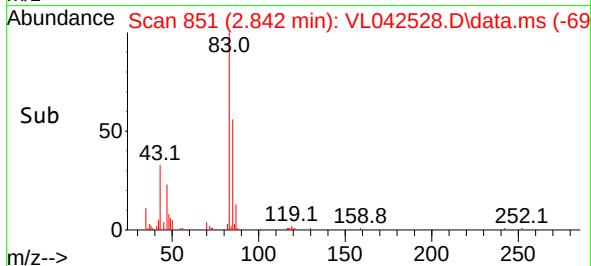
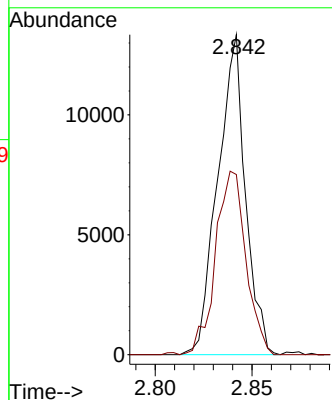
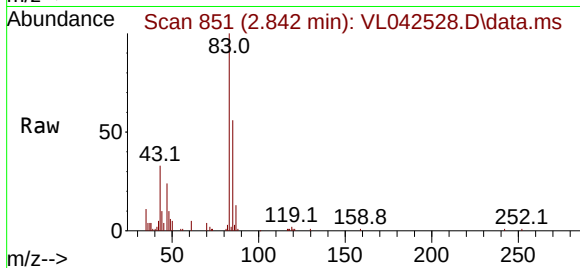
85 56.3 53.5 80.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025

Supervised By :Mahesh Dadoda 05/14/2025



#30

Cyclohexane

Concen: 0.442 ppbv m

RT: 3.845 min Scan# 1161

Delta R.T. 0.003 min

Lab File: VL042528.D

Acq: 12 May 2025 10:41

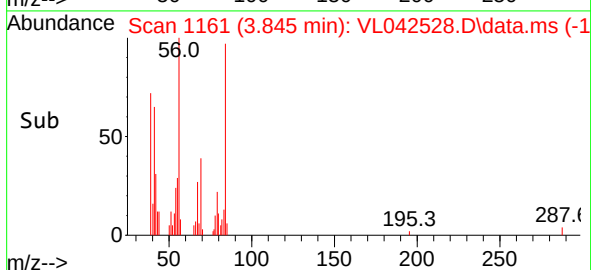
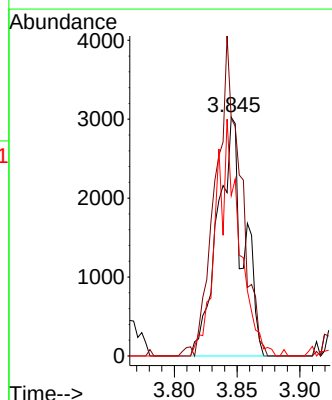
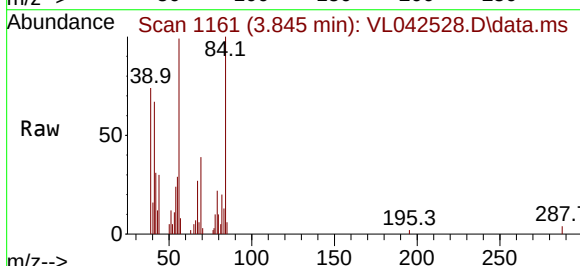
Tgt Ion: 84 Resp: 4336

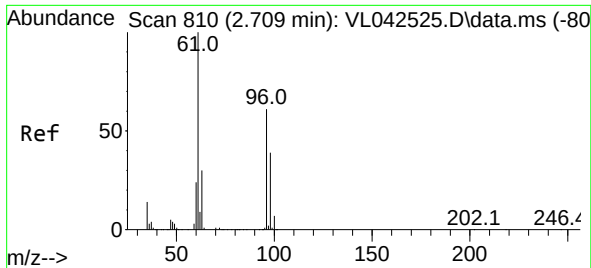
Ion Ratio Lower Upper

84 100

56 129.1 97.1 145.7

41 89.8 66.6 99.8





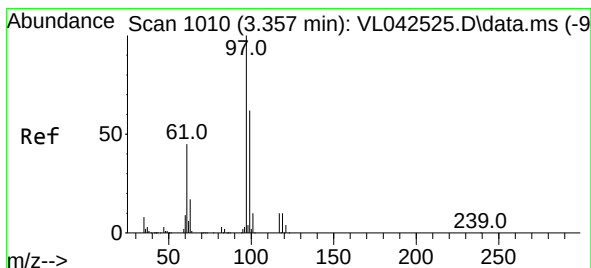
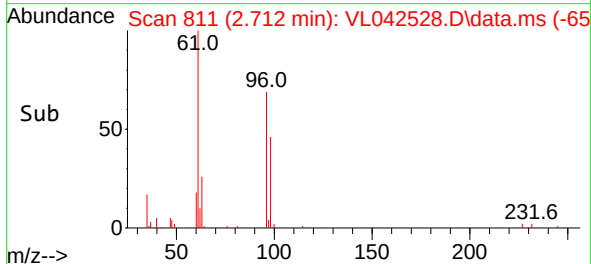
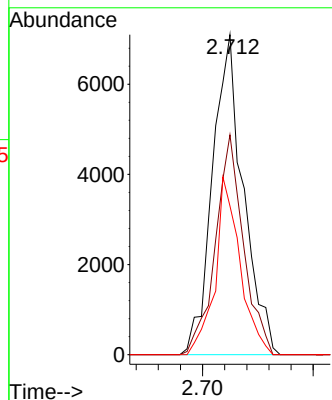
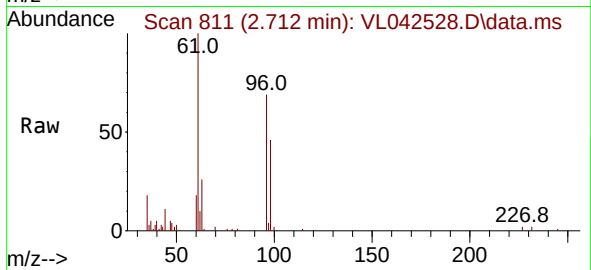
#31
 cis-1,2-Dichloroethene
 Concen: 0.511 ppbv
 RT: 2.712 min Scan# 810
 Delta R.T. 0.003 min
 Lab File: VL042528.D
 Acq: 12 May 2025 10:41

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion: 61 Resp: 6890
 Ion Ratio Lower Upper
 61 100
 96 68.7 48.9 73.3
 98 46.5 31.4 47.2

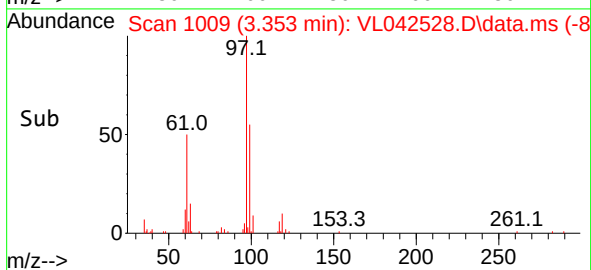
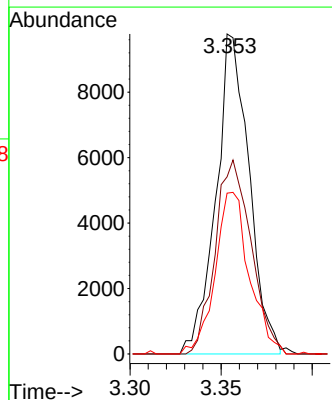
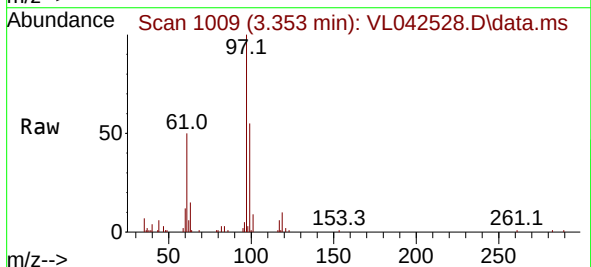
Manual Integrations
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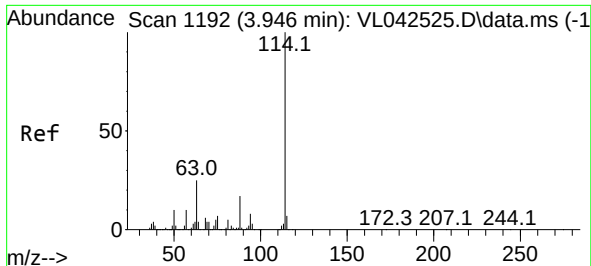
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025



#32
 1,1,1-Trichloroethane
 Concen: 0.495 ppbv
 RT: 3.353 min Scan# 1009
 Delta R.T. -0.004 min
 Lab File: VL042528.D
 Acq: 12 May 2025 10:41

Tgt Ion: 97 Resp: 12360
 Ion Ratio Lower Upper
 97 100
 99 65.9 50.1 75.1
 61 52.3 38.2 57.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.946 min Scan# 1192

Delta R.T. -0.000 min

Lab File: VL042528.D

Acq: 12 May 2025 10:41

Instrument :

MSVOA_L

ClientSampleId :

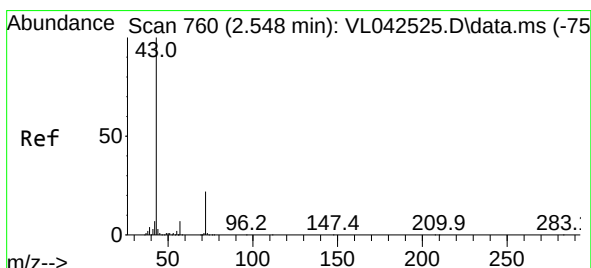
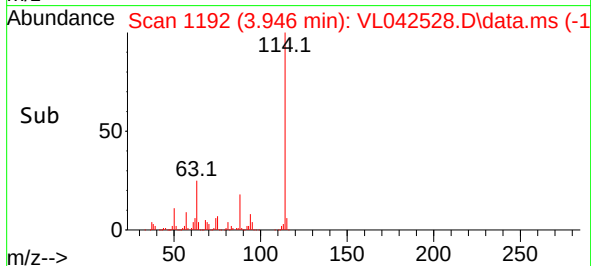
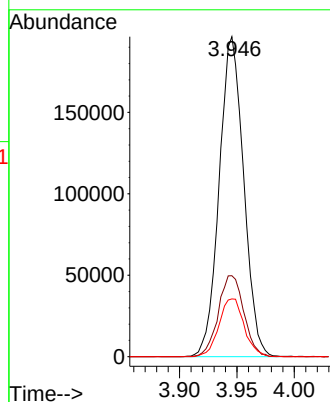
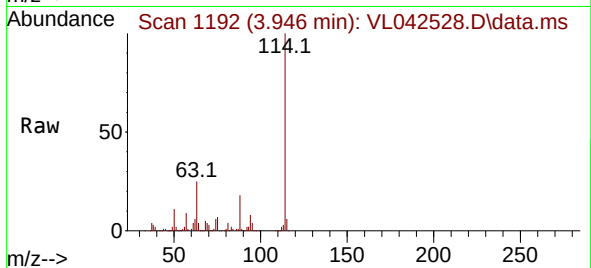
VSTDICC0.5

Tgt Ion:	114	Resp:	29124
Ion Ratio	Lower	Upper	
114	100		
63	26.5	20.4	30.6
88	18.6	14.5	21.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#34

2-Butanone

Concen: 0.521 ppbv

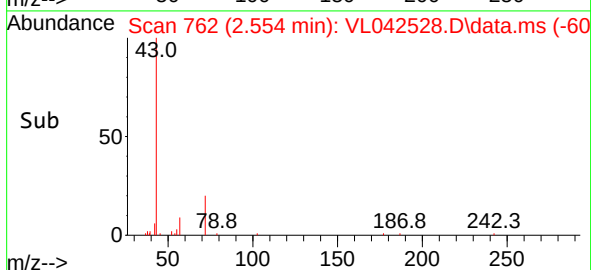
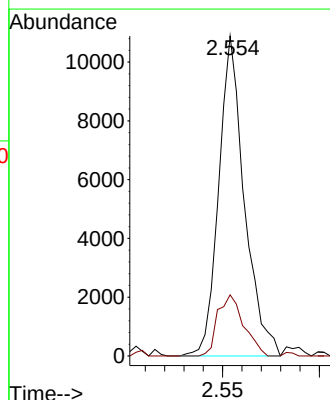
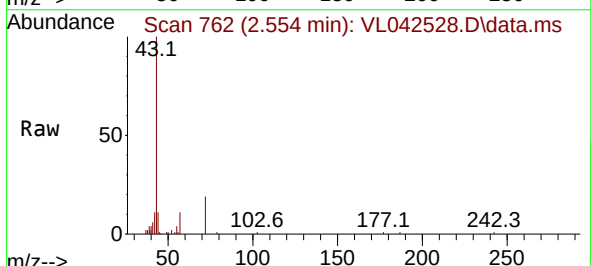
RT: 2.554 min Scan# 762

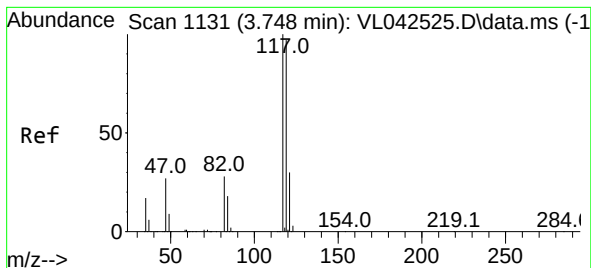
Delta R.T. 0.006 min

Lab File: VL042528.D

Acq: 12 May 2025 10:41

Tgt Ion:	43	Resp:	9997
Ion Ratio	Lower	Upper	
43	100		
72	19.9	18.7	28.1





#35

Carbon Tetrachloride

Concen: 0.492 ppbv m

RT: 3.748 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VL042528.D

Acq: 12 May 2025 10:41

Instrument :

MSVOA_L

ClientSampleId :

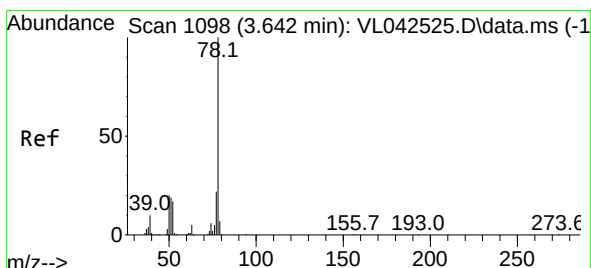
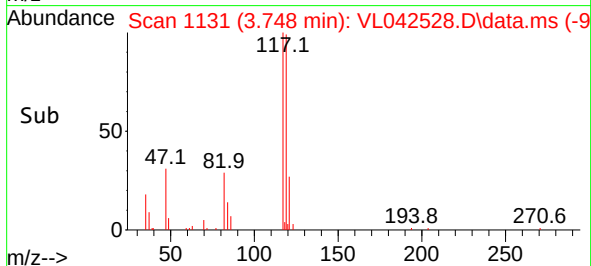
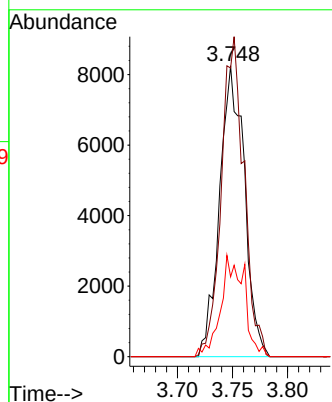
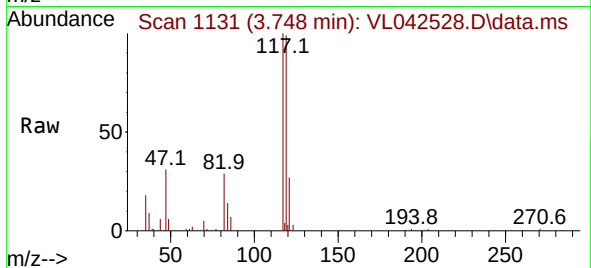
VSTDIC0.5

Tgt Ion:	117	Resp:	12870
Ion	Ratio	Lower	Upper
117	100		
119	99.3	77.7	116.5
121	27.5	24.0	36.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#36

Benzene

Concen: 0.493 ppbv

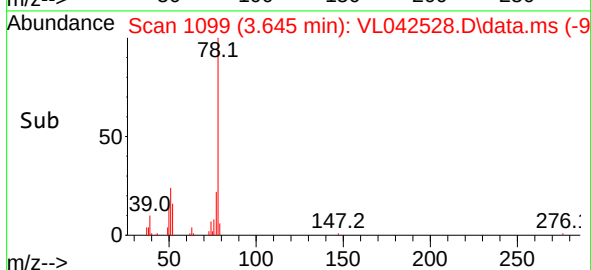
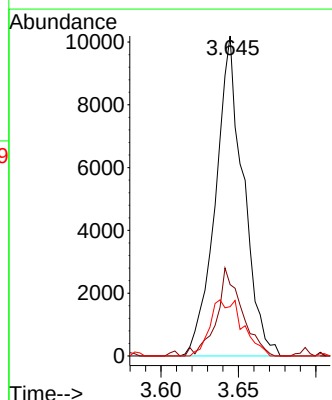
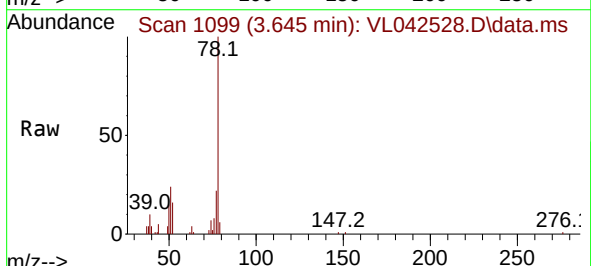
RT: 3.645 min Scan# 1099

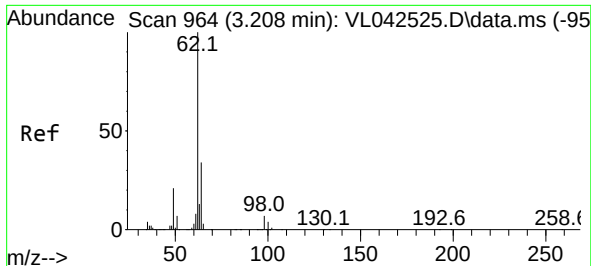
Delta R.T. 0.003 min

Lab File: VL042528.D

Acq: 12 May 2025 10:41

Tgt Ion:	78	Resp:	12733
Ion	Ratio	Lower	Upper
78	100		
77	22.3	17.4	26.2
50	15.4	16.3	24.5





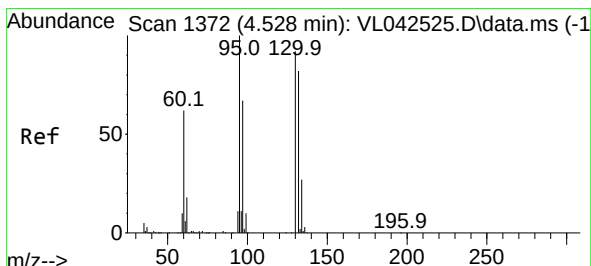
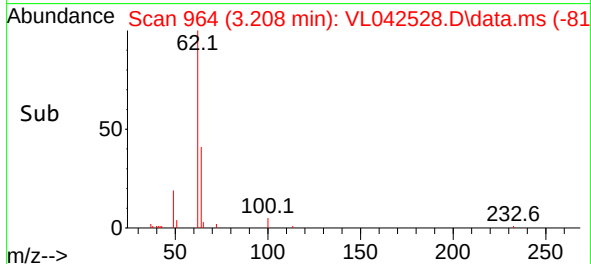
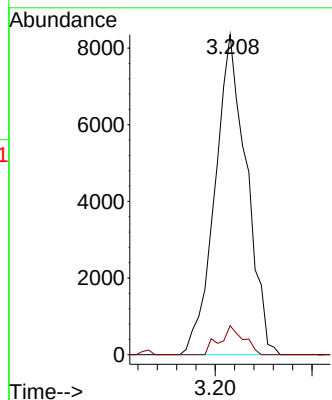
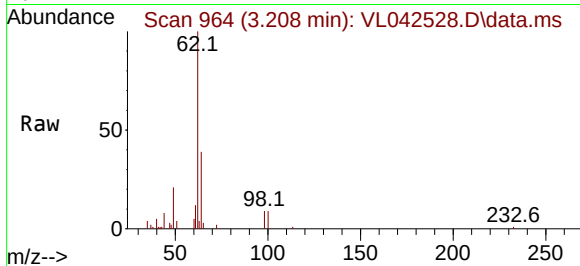
#37
1,2-Dichloroethane
Concen: 0.513 ppbv
RT: 3.208 min Scan# 964
Delta R.T. -0.000 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 62 Resp: 9449
Ion Ratio Lower Upper
62 100
98 6.8 5.0 7.4

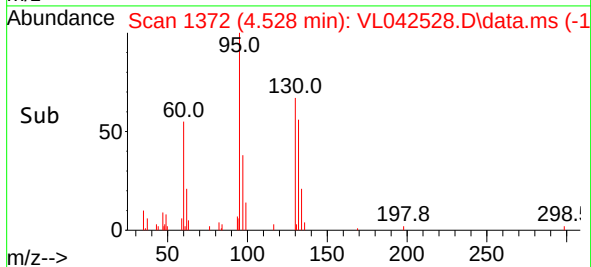
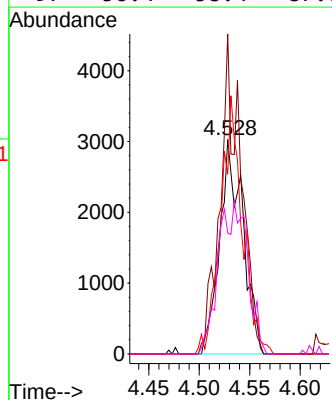
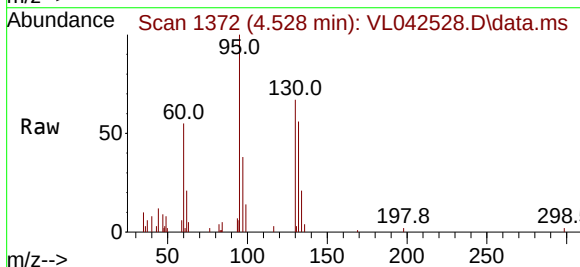
Manual Integrations
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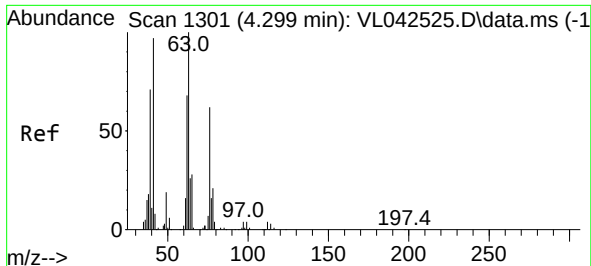
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#38
Trichloroethene
Concen: 0.440 ppbv m
RT: 4.528 min Scan# 1372
Delta R.T. -0.000 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

Tgt Ion:130 Resp: 4849
Ion Ratio Lower Upper
130 100
95 149.3 87.0 130.4#
132 83.8 71.1 106.7
97 56.4 58.4 87.6#





#39

1,2-Dichloropropane

Concen: 0.524 ppbv m

RT: 4.305 min Scan# 1301

Delta R.T. 0.006 min

Lab File: VL042528.D

Acq: 12 May 2025 10:41

Instrument :

MSVOA_L

ClientSampleId :

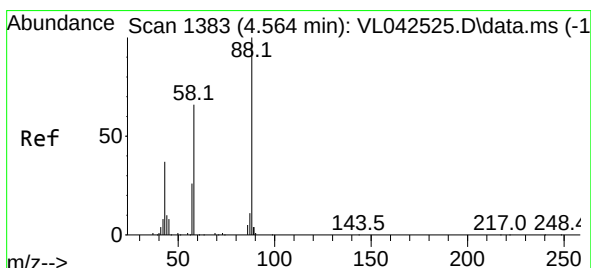
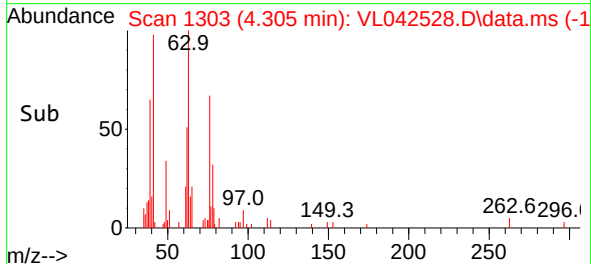
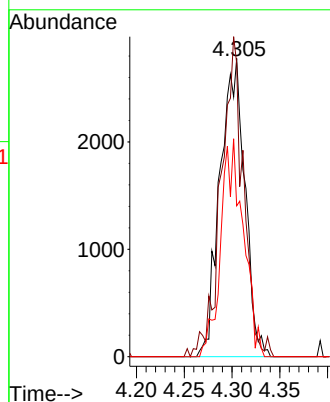
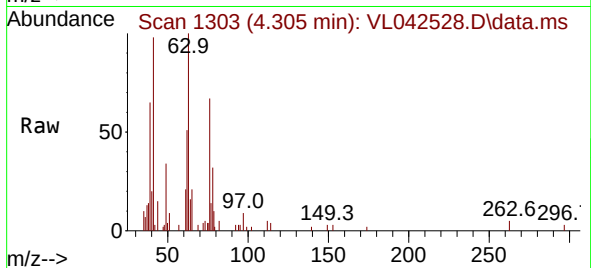
VSTDIC0.5

Tgt Ion: 63	Resp: 503
Ion Ratio	Lower Upper
63	100
41	98.4 77.5 116.3
62	50.6 54.6 82.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#40

1,4-Dioxane

Concen: 0.526 ppbv m

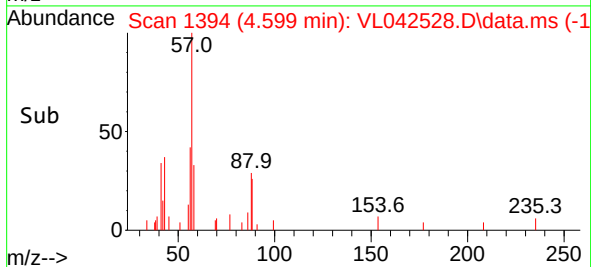
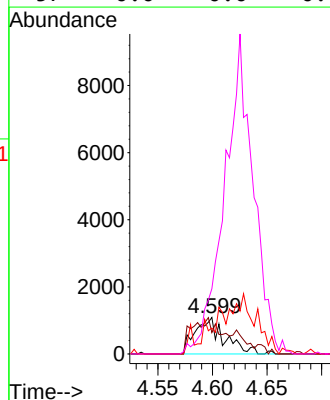
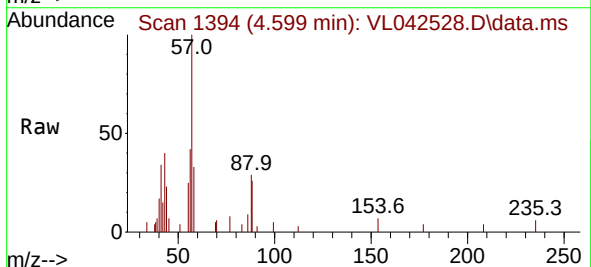
RT: 4.599 min Scan# 1394

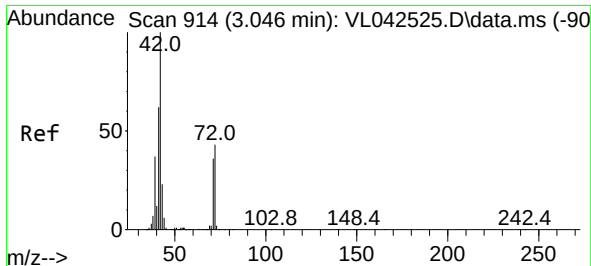
Delta R.T. 0.035 min

Lab File: VL042528.D

Acq: 12 May 2025 10:41

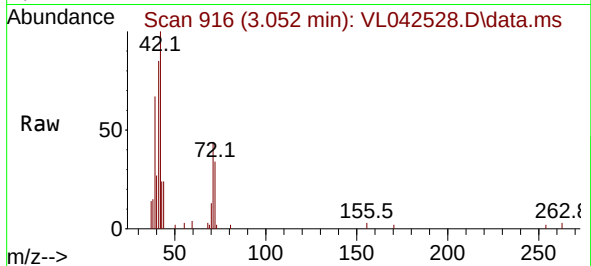
Tgt Ion: 88	Resp: 2013
Ion Ratio	Lower Upper
88	100
58	0.0 58.2 87.2#
43	0.0 27.9 41.9#
57	0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 0.384 ppbv m
RT: 3.052 min Scan# 914
Delta R.T. 0.006 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

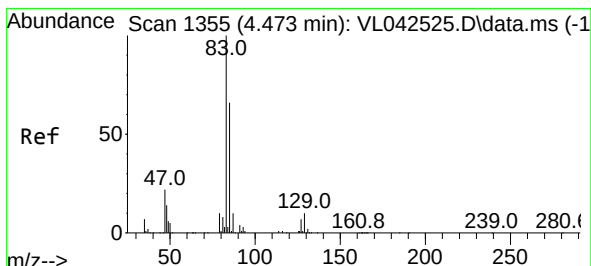
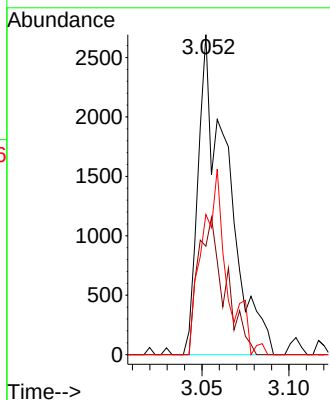
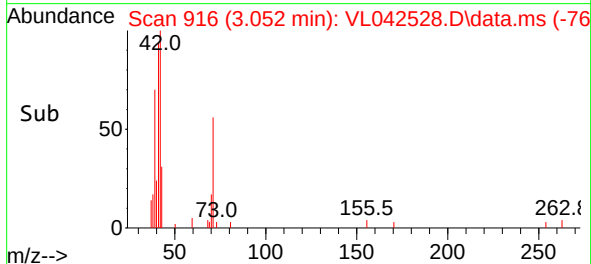
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



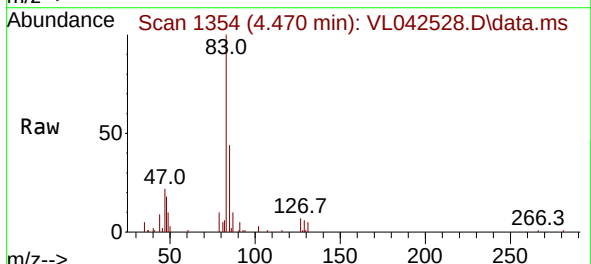
Tgt Ion: 42 Resp: 3180
Ion Ratio Lower Upper
42 100
72 39.0 32.7 49.1
71 0.0 30.4 45.6

Manual Integrations
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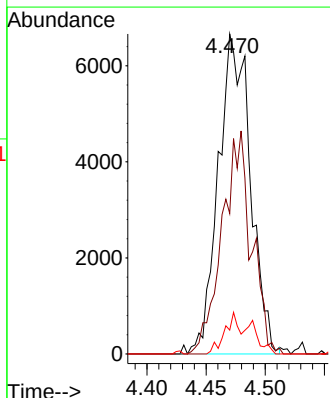
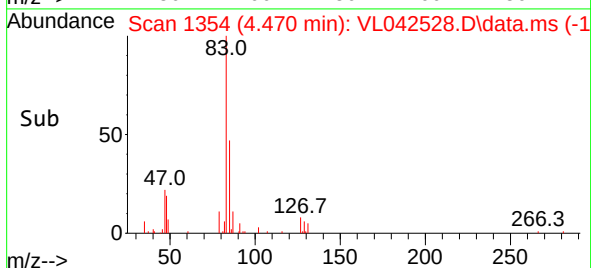
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

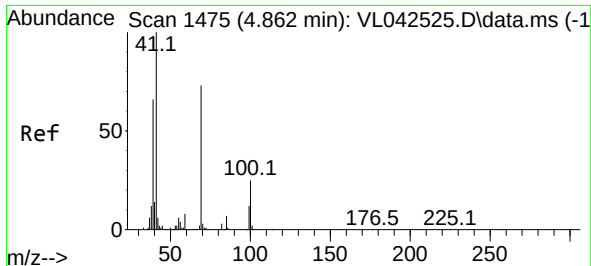


#42
Bromodichloromethane
Concen: 0.513 ppbv m
RT: 4.470 min Scan# 1354
Delta R.T. -0.004 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41



Tgt Ion: 83 Resp: 12586
Ion Ratio Lower Upper
83 100
85 43.9 52.6 79.0#
127 7.4 6.0 9.0





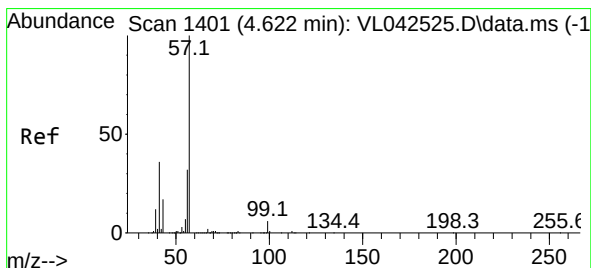
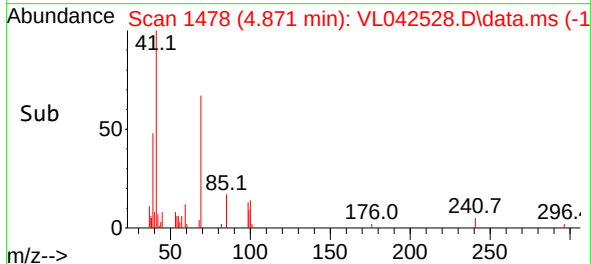
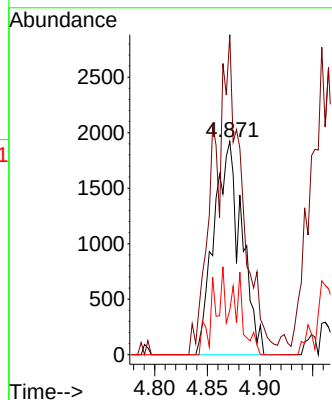
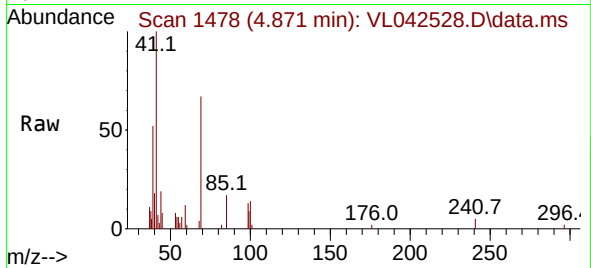
#43
Methyl Methacrylate
Concen: 0.406 ppbv m
RT: 4.871 min Scan# 1475
Delta R.T. 0.009 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 69 Resp: 3498
Ion Ratio Lower Upper
69 100
41 0.0 119.9 179.9
100 32.7 28.4 42.6

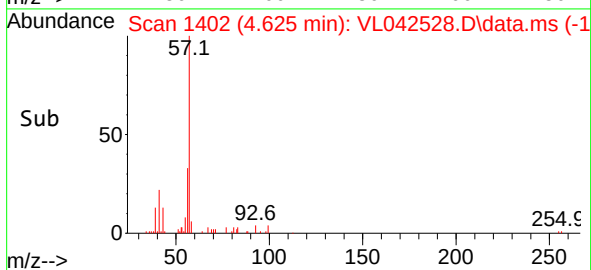
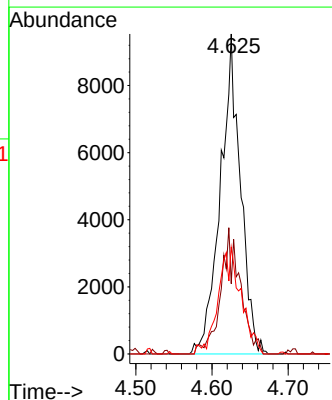
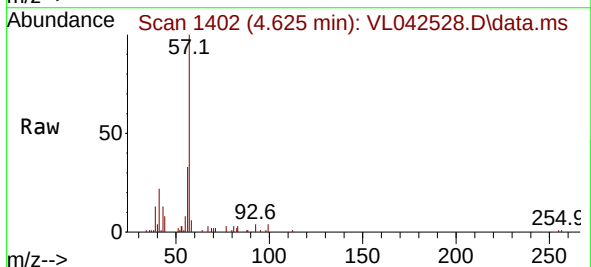
Manual Integrations
APPROVED

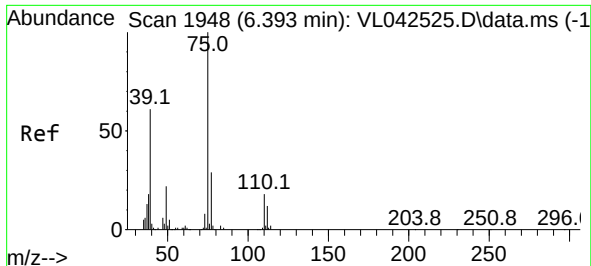
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#44
2,2,4-Trimethylpentane
Concen: 0.432 ppbv m
RT: 4.625 min Scan# 1402
Delta R.T. 0.003 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

Tgt Ion: 57 Resp: 17528
Ion Ratio Lower Upper
57 100
41 38.1 28.3 42.5
56 37.8 25.9 38.9





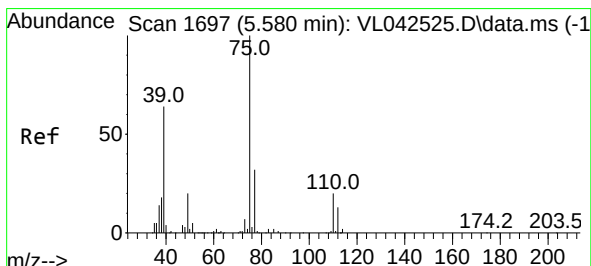
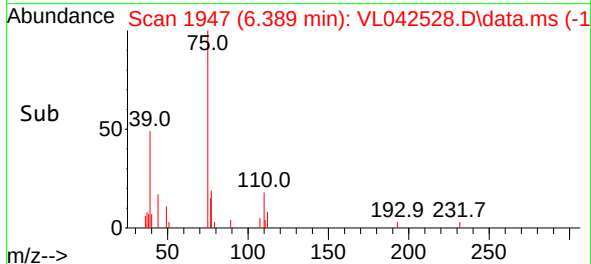
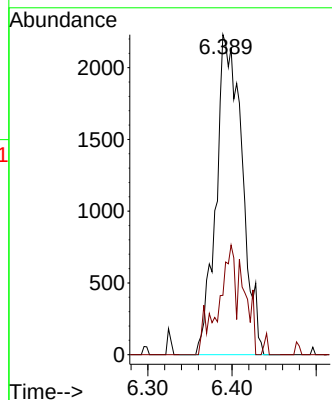
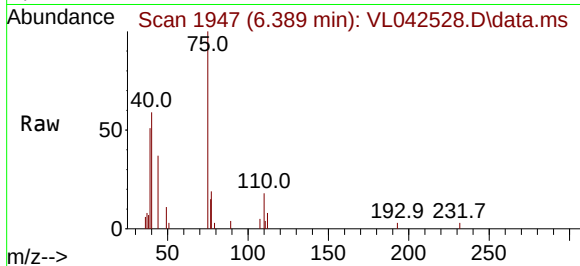
#45
 t-1,3-Dichloropropene
 Concen: 0.433 ppbv m
 RT: 6.389 min Scan# 1948
 Delta R.T. -0.004 min
 Lab File: VL042528.D
 Acq: 12 May 2025 10:41

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion: 75 Resp: 4770
 Ion Ratio Lower Upper
 75 100
 77 18.6 23.3 34.9

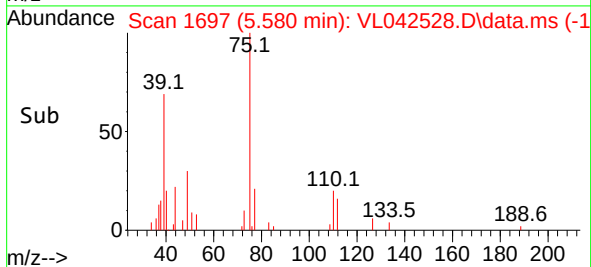
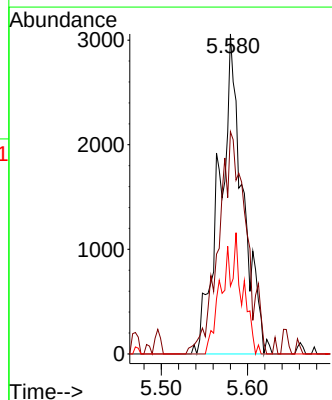
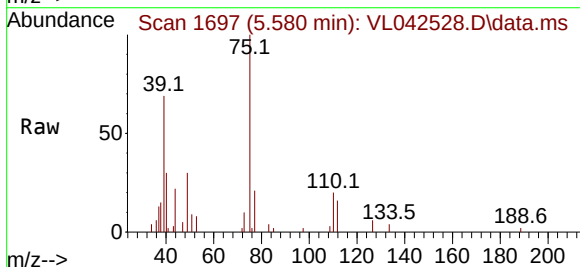
Manual Integrations
 APPROVED

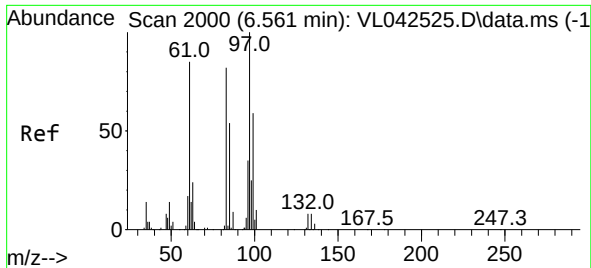
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025



#46
 cis-1,3-Dichloropropene
 Concen: 0.436 ppbv m
 RT: 5.580 min Scan# 1697
 Delta R.T. -0.000 min
 Lab File: VL042528.D
 Acq: 12 May 2025 10:41

Tgt Ion: 75 Resp: 5788
 Ion Ratio Lower Upper
 75 100
 39 69.4 51.2 76.8
 77 21.2 25.4 38.0





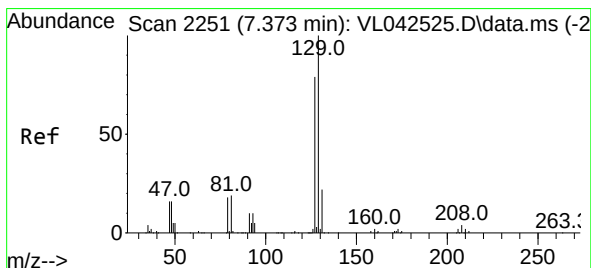
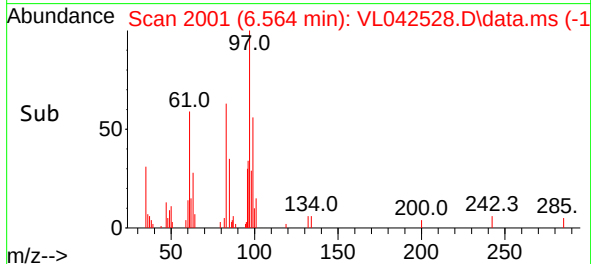
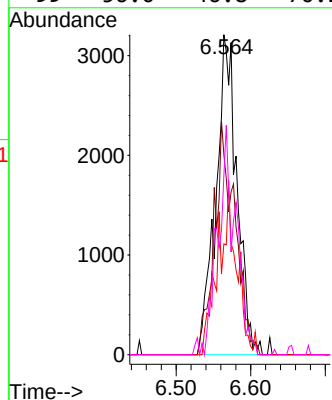
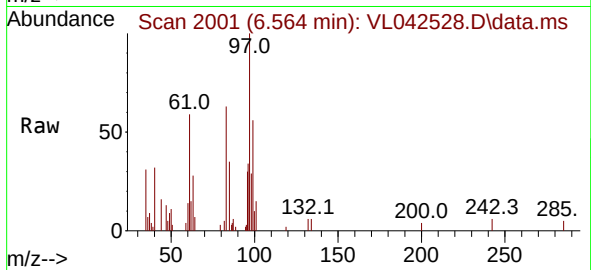
#47
1,1,2-Trichloroethane
Concen: 0.560 ppbv m
RT: 6.564 min Scan# 2000
Delta R.T. 0.003 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 97 Resp: 6332
Ion Ratio Lower Upper
97 100
83 62.5 66.0 99.0
85 34.7 42.8 64.2
99 56.0 46.8 70.2

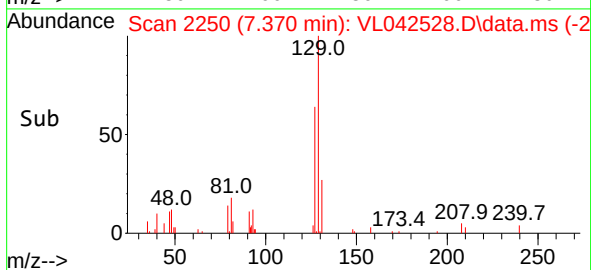
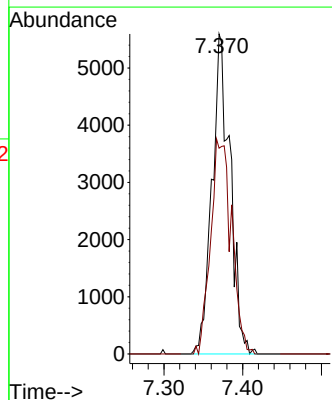
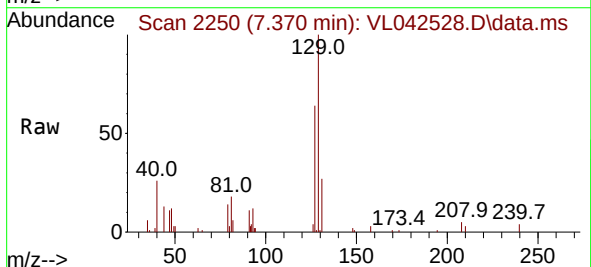
Manual Integrations
APPROVED

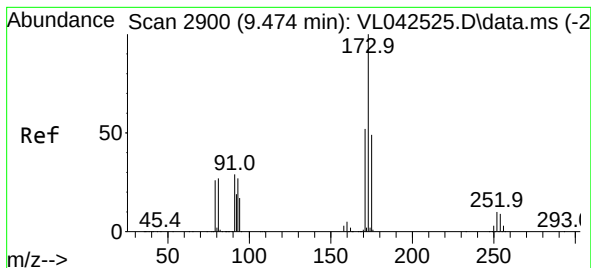
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#48
Dibromochloromethane
Concen: 0.468 ppbv m
RT: 7.370 min Scan# 2250
Delta R.T. -0.004 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

Tgt Ion:129 Resp: 8855
Ion Ratio Lower Upper
129 100
127 78.6 39.6 118.8





#49

Bromoform

Concen: 0.460 ppbv

RT: 9.474 min Scan# 2900

Delta R.T. -0.000 min

Lab File: VL042528.D

Acq: 12 May 2025 10:41

Instrument :

MSVOA_L

ClientSampleId :

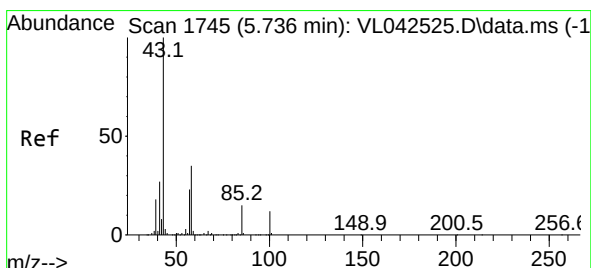
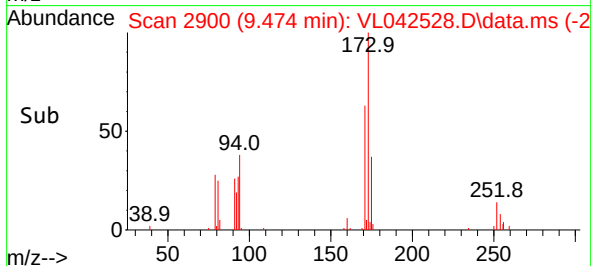
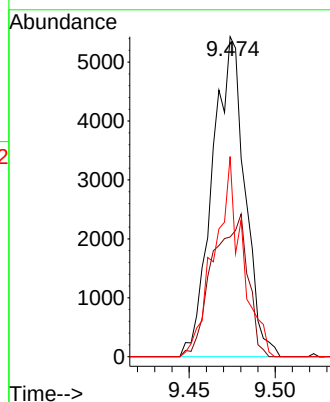
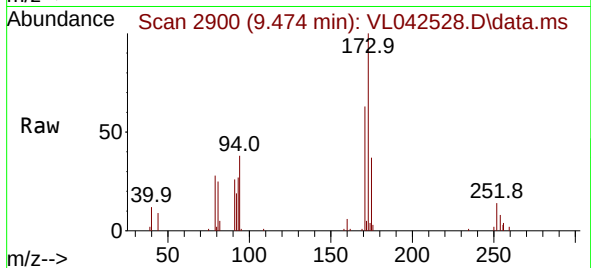
VSTDICC0.5

Tgt Ion:	173	Resp:	7130
Ion	Ratio	Lower	Upper
173	100		
175	48.1	39.1	58.7
171	53.6	41.8	62.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#50

4-Methyl-2-Pentanone

Concen: 0.402 ppbv m

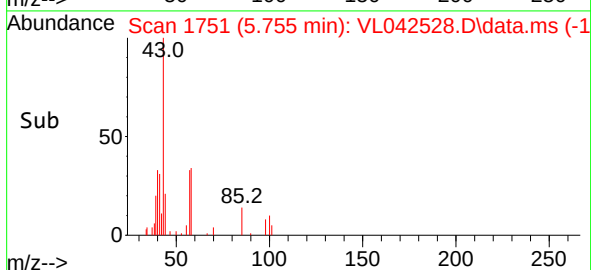
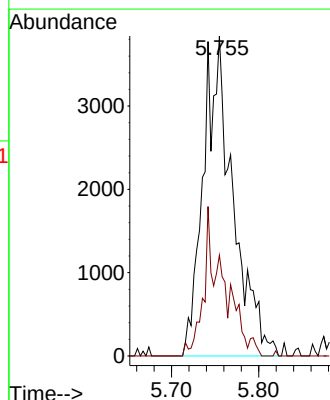
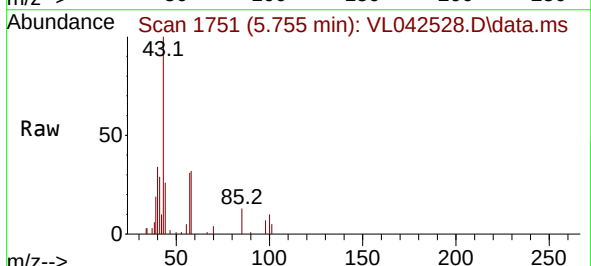
RT: 5.755 min Scan# 1751

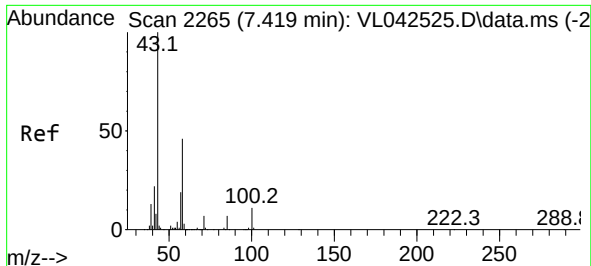
Delta R.T. 0.019 min

Lab File: VL042528.D

Acq: 12 May 2025 10:41

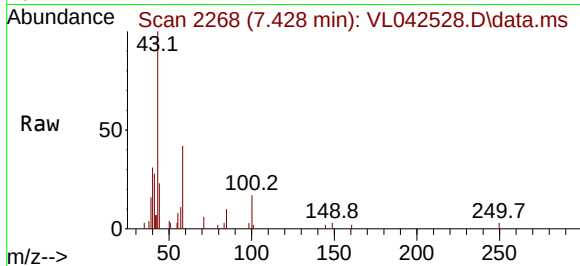
Tgt Ion:	43	Resp:	9040
Ion	Ratio	Lower	Upper
43	100		
58	31.7	28.6	42.8





#51
2-Hexanone
Concen: 0.355 ppbv m
RT: 7.428 min Scan# 2109
Delta R.T. 0.009 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

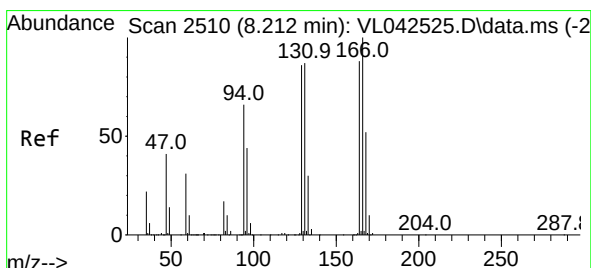
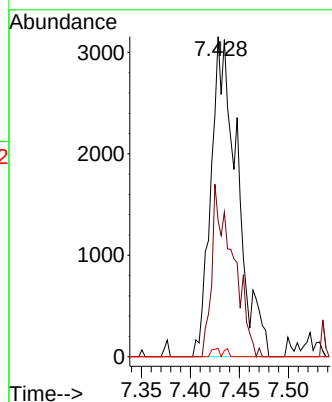
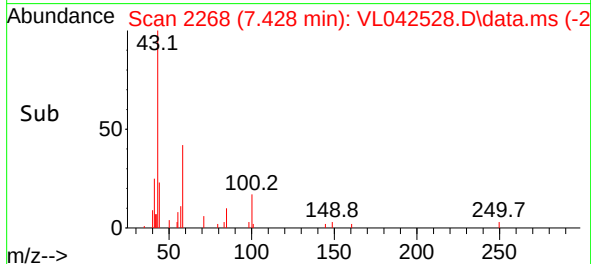
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



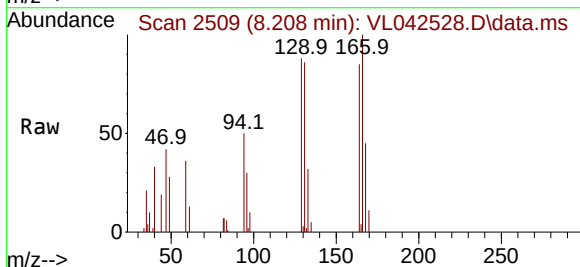
Tgt Ion: 43 Resp: 593
Ion Ratio Lower Upper
43 100
58 43.0 37.5 56.3
98 1.2 0.9 1.3

Manual Integrations
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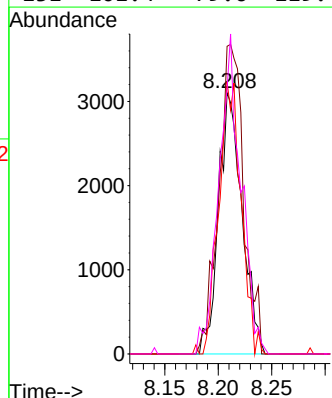
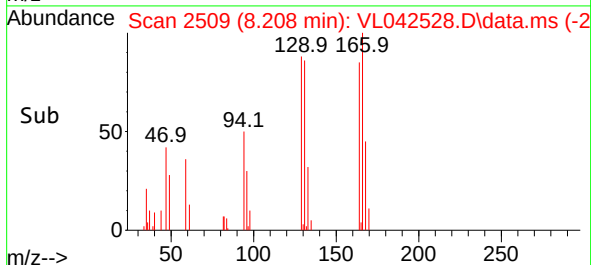
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

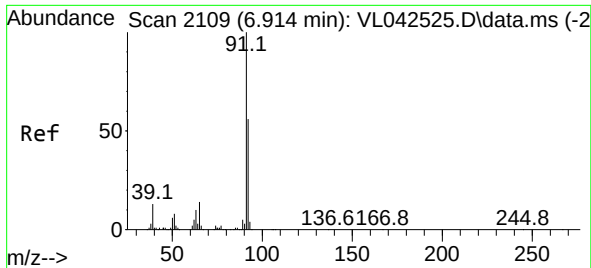


#52
Tetrachloroethene
Concen: 0.478 ppbv m
RT: 8.208 min Scan# 2509
Delta R.T. -0.004 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41



Tgt Ion:164 Resp: 4752
Ion Ratio Lower Upper
164 100
166 117.8 91.3 136.9
129 104.2 78.9 118.3
131 101.4 79.6 119.4





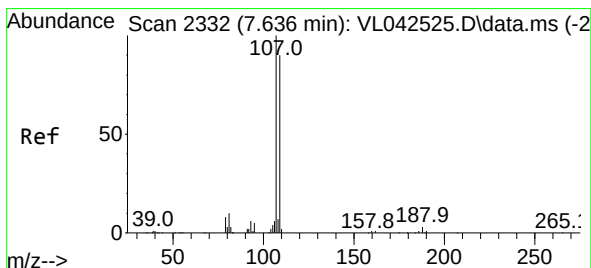
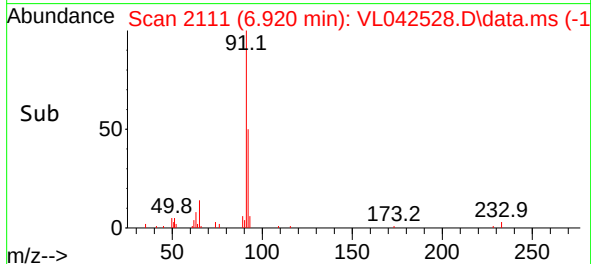
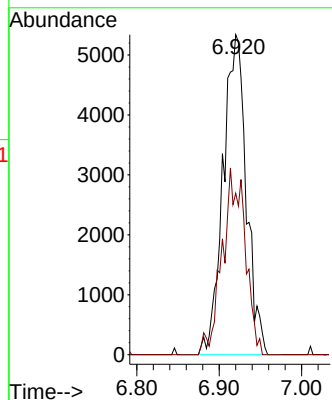
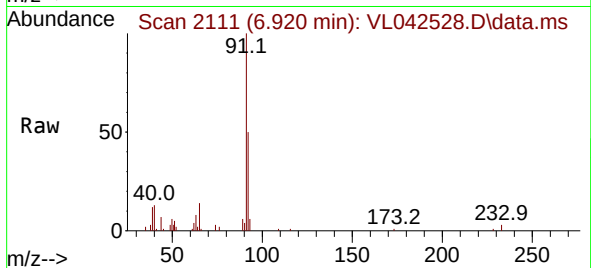
#53
Toluene
Concen: 0.414 ppbv m
RT: 6.920 min Scan# 2111
Delta R.T. 0.006 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 91 Resp: 10479
Ion Ratio Lower Upper
91 100
92 57.5 47.8 71.6

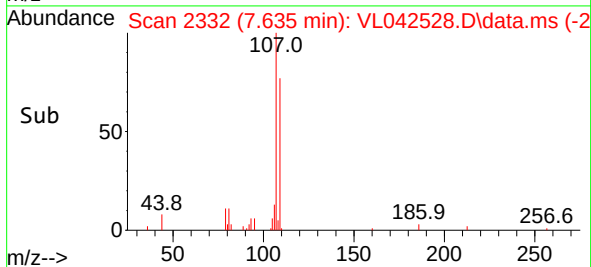
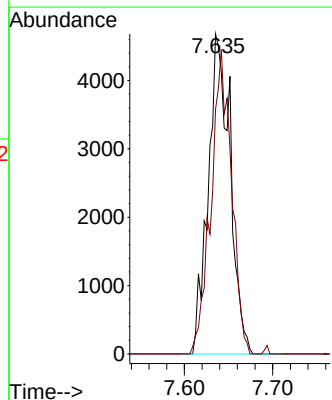
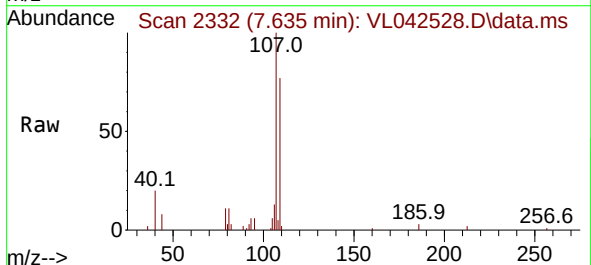
Manual Integrations
APPROVED

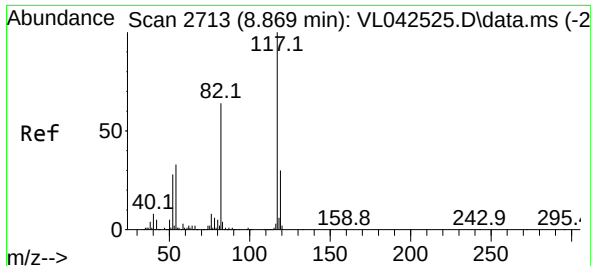
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#54
1,2-Dibromoethane
Concen: 0.489 ppbv m
RT: 7.635 min Scan# 2332
Delta R.T. -0.000 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

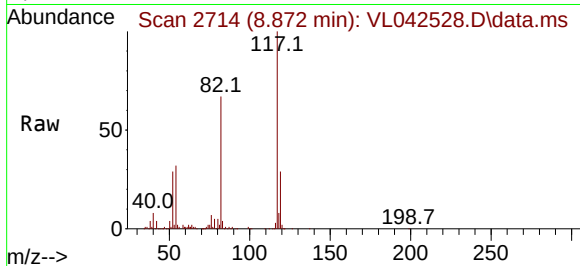
Tgt Ion:107 Resp: 8089
Ion Ratio Lower Upper
107 100
109 76.5 72.2 108.4





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

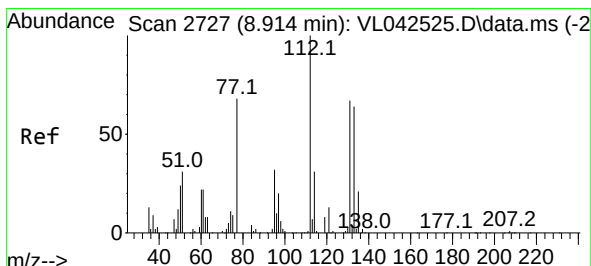
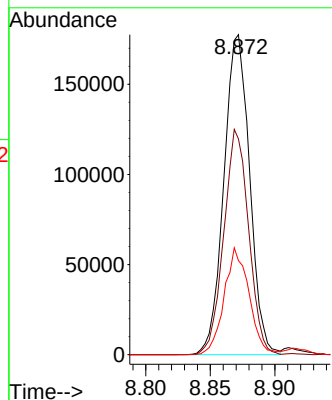
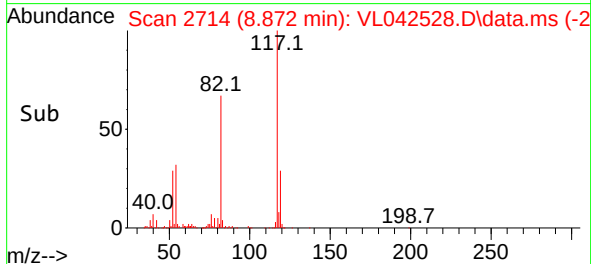
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



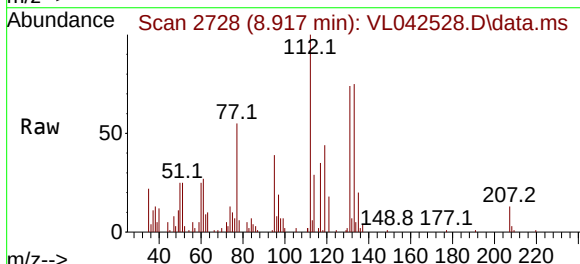
Tgt Ion:117 Resp: 24644
Ion Ratio Lower Upper
117 100
82 68.2 55.0 82.4
119 34.0 25.8 38.6

Manual Integrations
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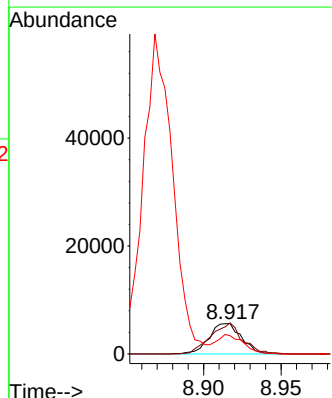
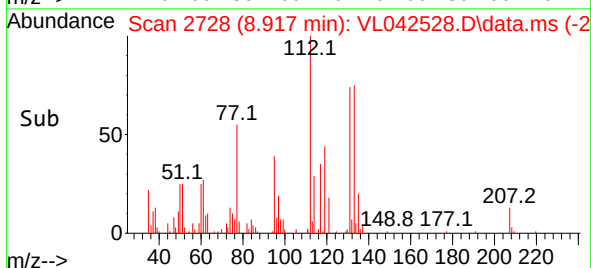
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

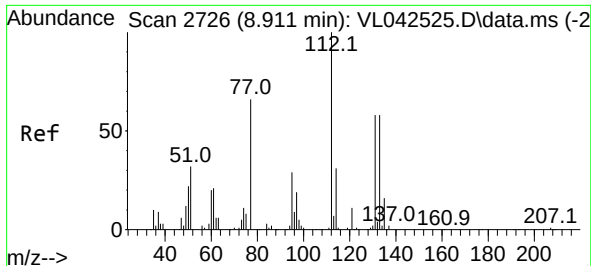


#56
1,1,1,2-Tetrachloroethane
Concen: 0.533 ppbv
RT: 8.917 min Scan# 2728
Delta R.T. 0.003 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41



Tgt Ion:131 Resp: 8150
Ion Ratio Lower Upper
131 100
133 100.6 77.4 116.2
119 1028.9 49.0 73.4#





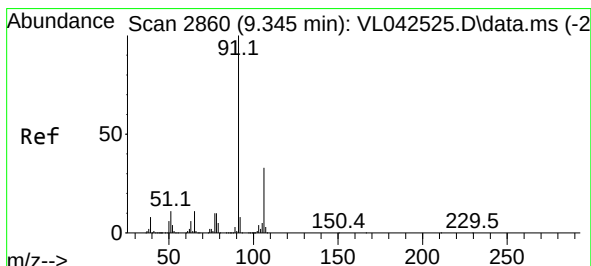
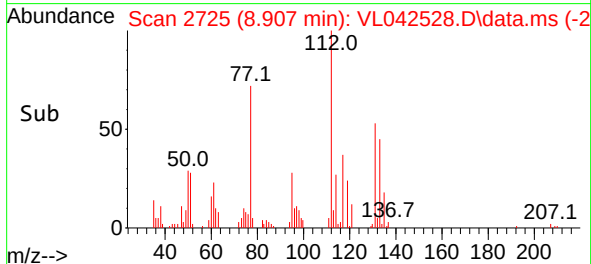
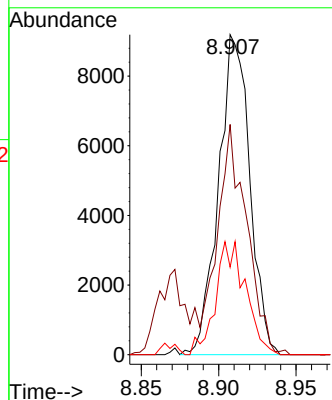
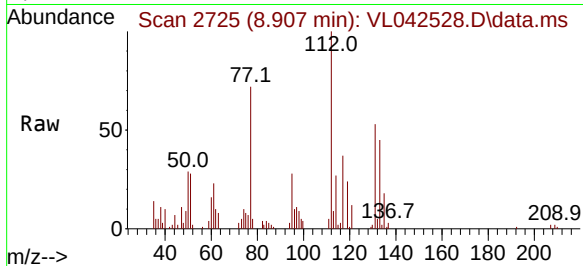
#57
Chlorobenzene
Concen: 0.521 ppbv
RT: 8.907 min Scan# 21
Delta R.T. -0.004 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 112 Resp: 1288
Ion Ratio Lower Upper
112 100
77 70.9 53.6 80.4
114 27.4 28.2 34.4

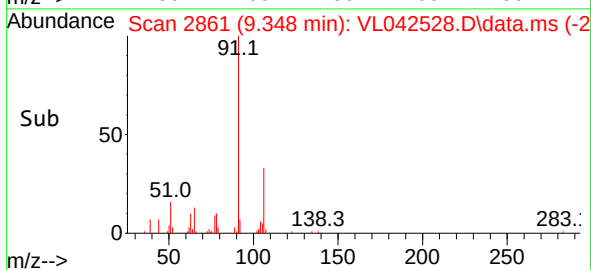
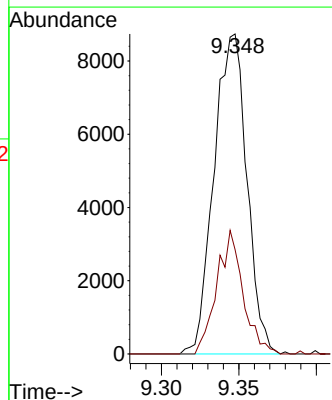
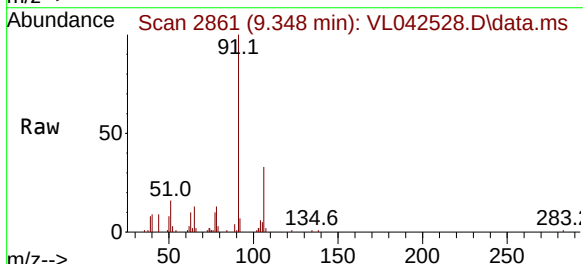
Manual Integrations
APPROVED

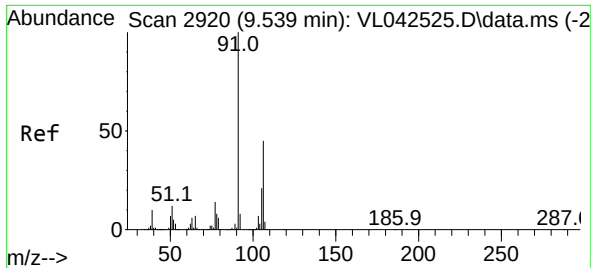
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#58
Ethyl Benzene
Concen: 0.384 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. 0.003 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

Tgt Ion: 91 Resp: 12895
Ion Ratio Lower Upper
91 100
106 32.6 26.0 39.0





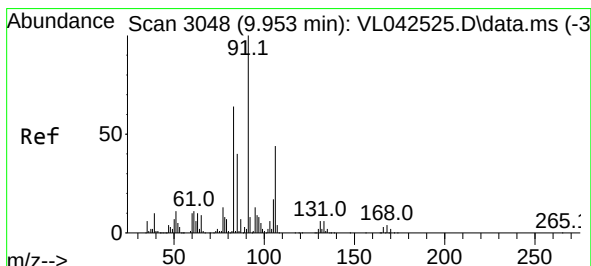
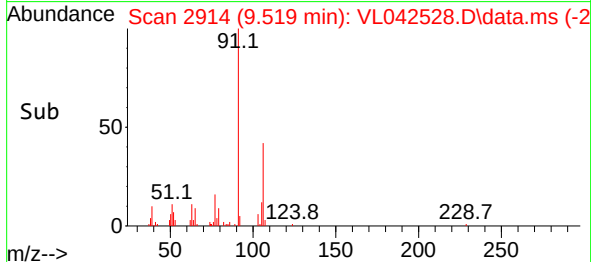
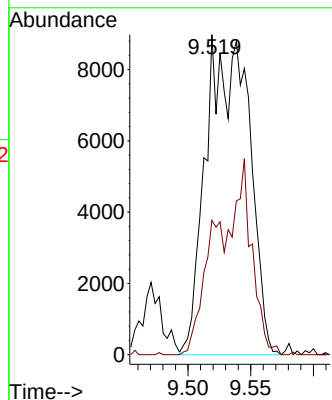
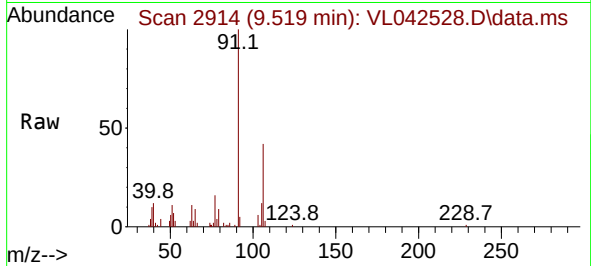
#59
m/p-Xylene
Concen: 0.715 ppbv m
RT: 9.519 min Scan# 2914
Delta R.T. -0.020 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 91 Resp: 2137
Ion Ratio Lower Upper
91 100
106 48.7 0.0 0.0

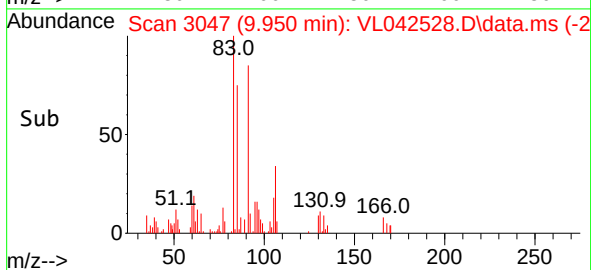
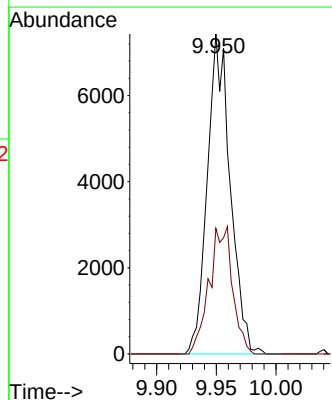
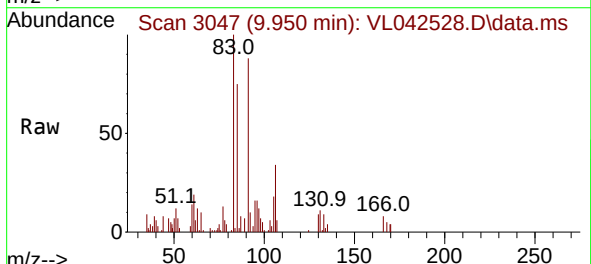
Manual Integrations
APPROVED

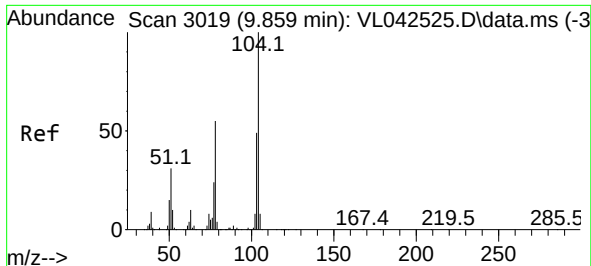
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#60
o-Xylene
Concen: 0.341 ppbv m
RT: 9.950 min Scan# 3047
Delta R.T. -0.004 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

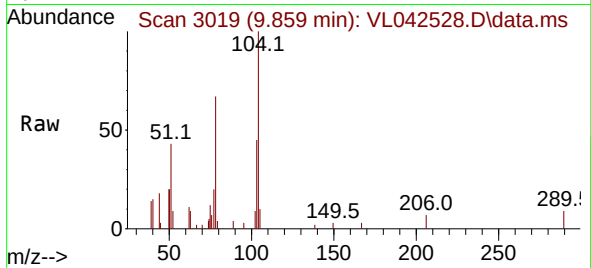
Tgt Ion: 91 Resp: 9922
Ion Ratio Lower Upper
91 100
106 40.6 21.6 64.6





#61
Styrene
Concen: 0.342 ppbv m
RT: 9.859 min Scan# 3019
Delta R.T. -0.000 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

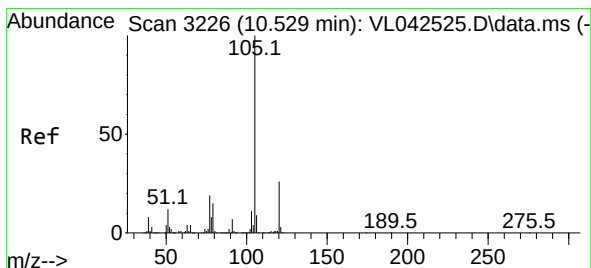
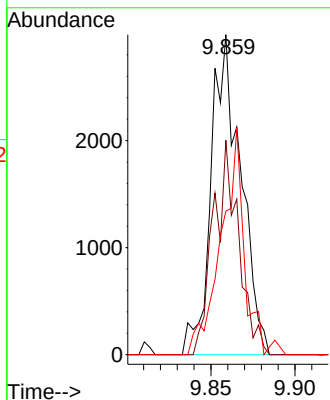
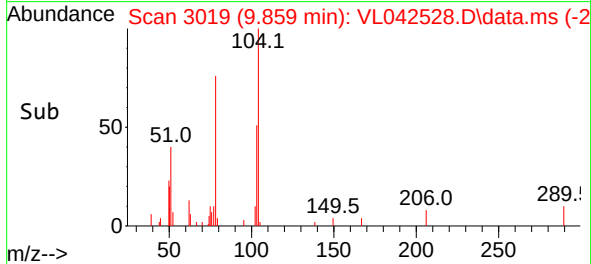
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



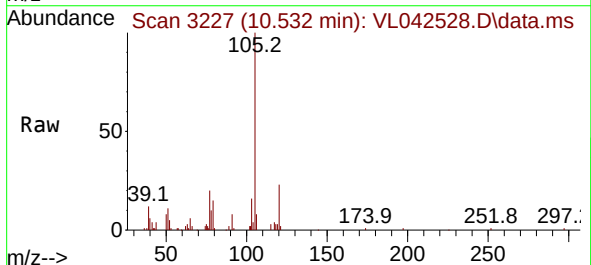
Tgt Ion:104 Resp: 3669
Ion Ratio Lower Upper
104 100
78 56.7 44.7 67.1
103 55.5 38.6 58.0

Manual Integrations
APPROVED

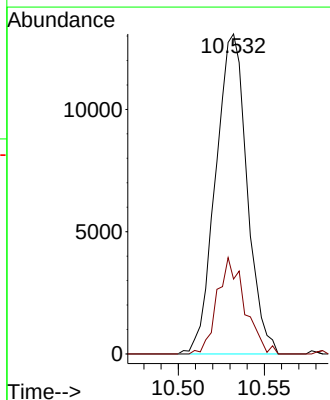
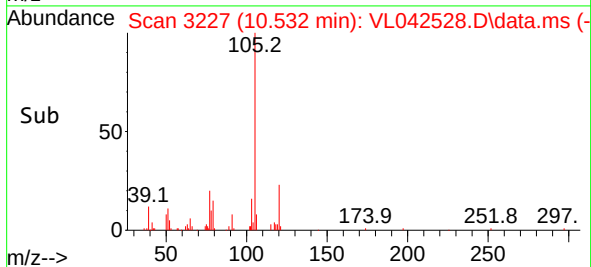
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

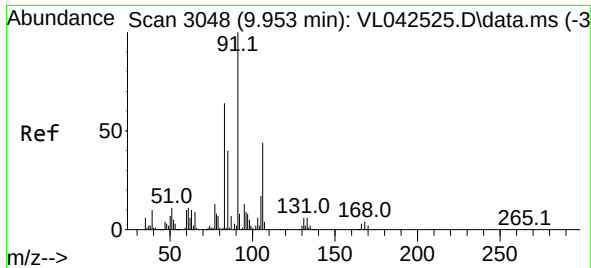


#62
Isopropylbenzene
Concen: 0.378 ppbv
RT: 10.532 min Scan# 3227
Delta R.T. 0.003 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41



Tgt Ion:105 Resp: 16603
Ion Ratio Lower Upper
105 100
120 26.4 20.1 30.1





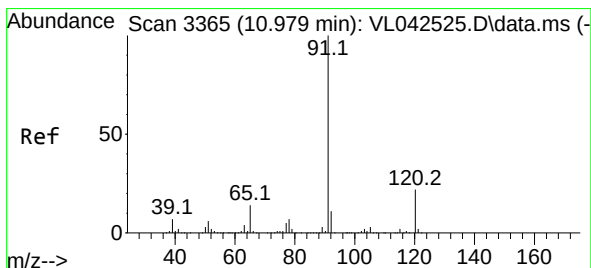
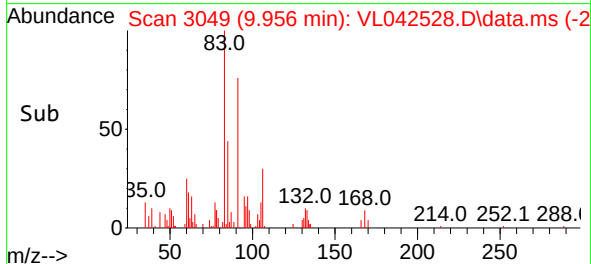
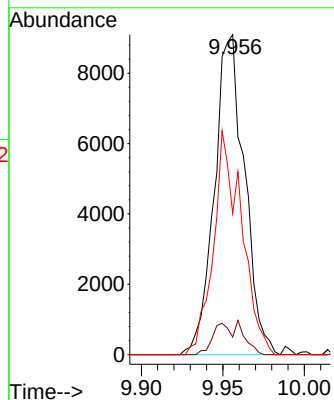
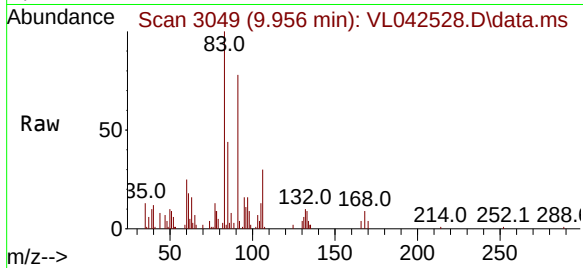
#63
1,1,2,2-Tetrachloroethane
Concen: 0.501 ppbv
RT: 9.956 min Scan# 3048
Delta R.T. 0.003 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 83 Resp: 1169
Ion Ratio Lower Upper
83 100
131 9.6 4.9 14.7
85 65.2 32.3 96.8

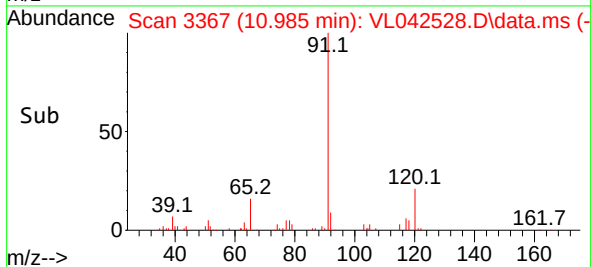
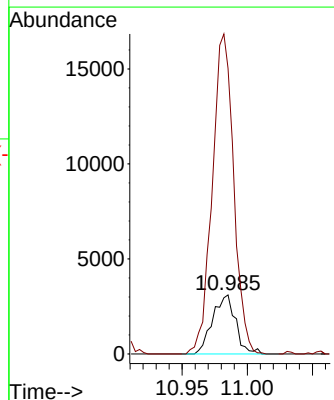
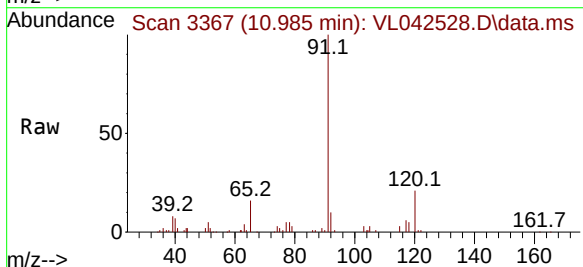
Manual Integrations
APPROVED

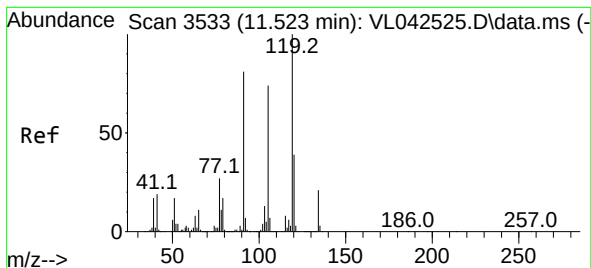
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#64
n-propylbenzene
Concen: 0.343 ppbv m
RT: 10.985 min Scan# 3367
Delta R.T. 0.006 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

Tgt Ion:120 Resp: 3813
Ion Ratio Lower Upper
120 100
91 505.3 377.7 566.5





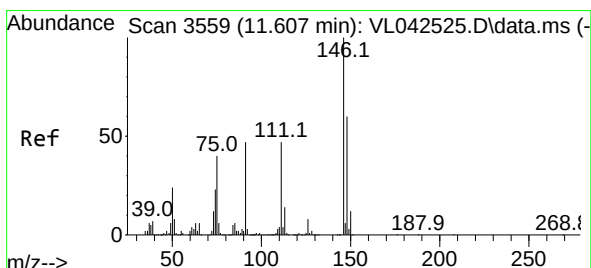
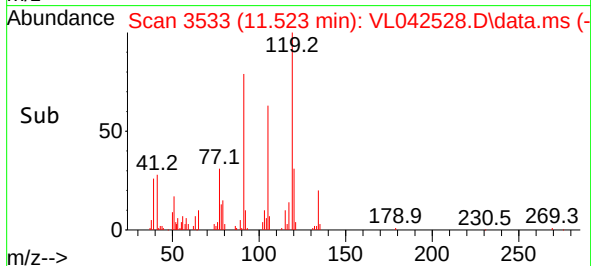
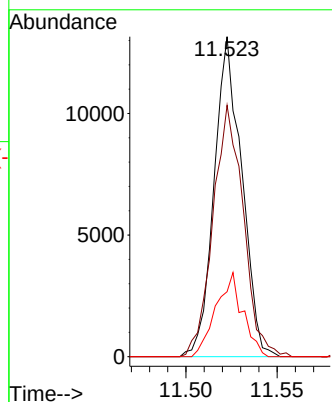
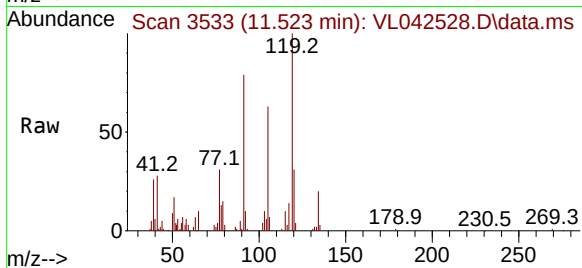
#65
tert-Butylbenzene
Concen: 0.344 ppbv
RT: 11.523 min Scan# 3533
Delta R.T. -0.000 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 119 Resp: 1386
Ion Ratio Lower Upper
119 100
91 86.4 66.6 99.8
134 25.4 16.3 24.5

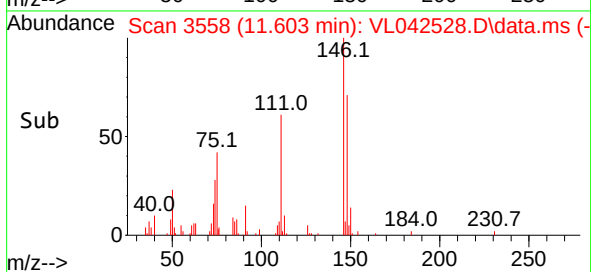
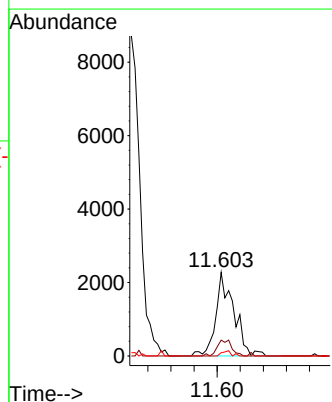
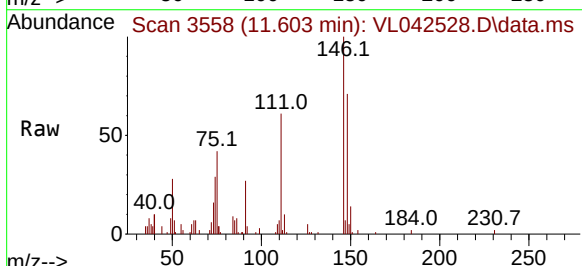
Manual Integrations
APPROVED

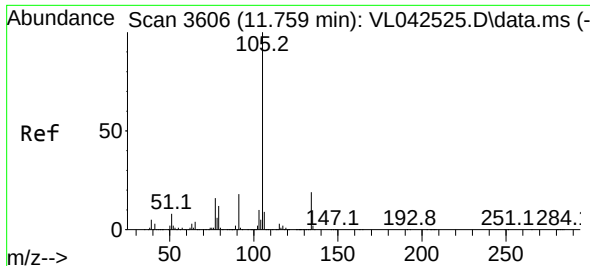
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#66
Benzyl Chloride
Concen: 0.464 ppbv m
RT: 11.603 min Scan# 3558
Delta R.T. -0.004 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

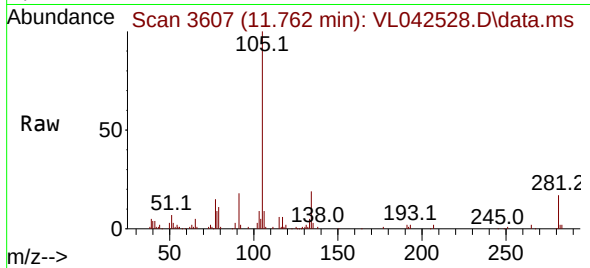
Tgt Ion: 91 Resp: 2476
Ion Ratio Lower Upper
91 100
126 0.0 13.7 20.5#
128 3.2 4.2 6.2#





#67
 sec-Butylbenzene
 Concen: 0.368 ppbv
 RT: 11.762 min Scan# 3607
 Delta R.T. 0.003 min
 Lab File: VL042528.D
 Acq: 12 May 2025 10:41

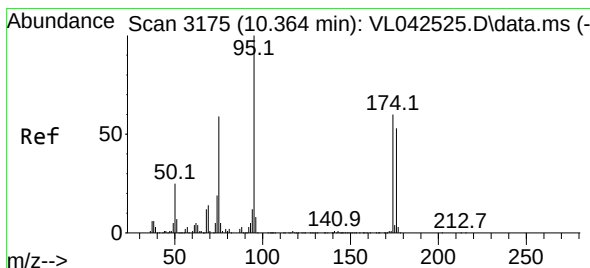
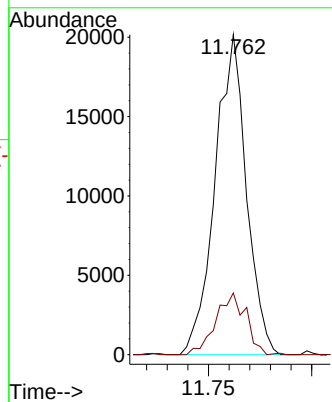
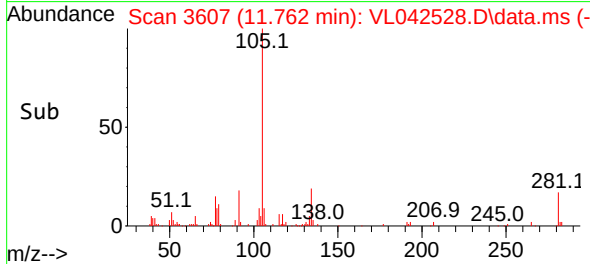
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



Tgt Ion: 105 Resp: 21235
 Ion Ratio Lower Upper
 105 100
 134 18.6 14.9 22.3

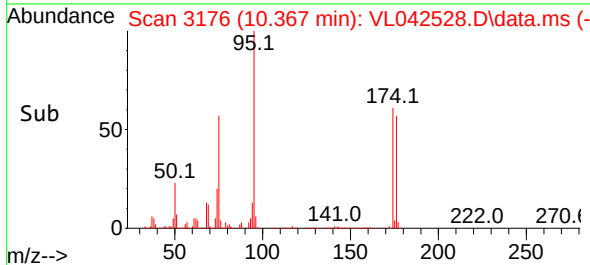
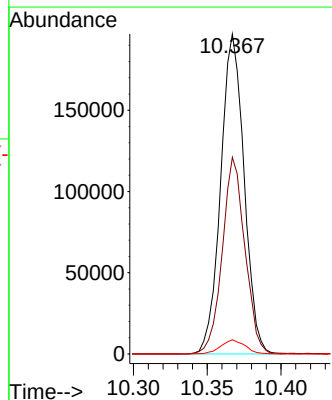
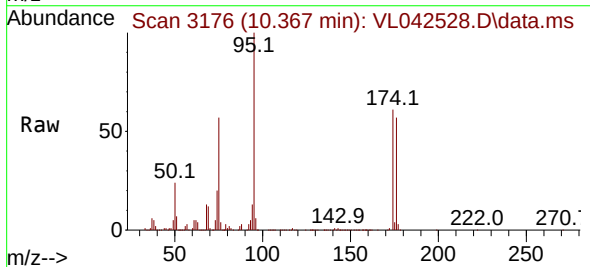
Manual Integrations
 APPROVED

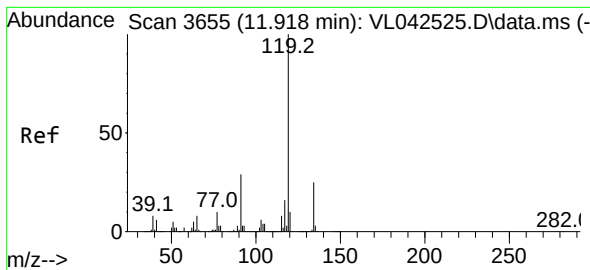
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.145 ppbv
 RT: 10.367 min Scan# 3176
 Delta R.T. 0.003 min
 Lab File: VL042528.D
 Acq: 12 May 2025 10:41

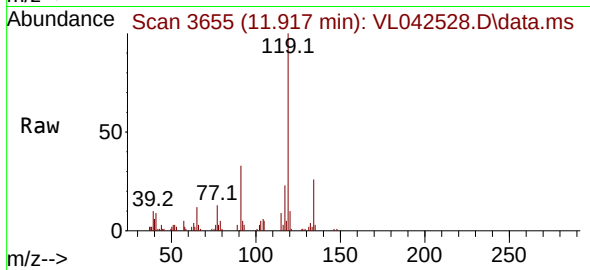
Tgt Ion: 95 Resp: 217536
 Ion Ratio Lower Upper
 95 100
 174 59.4 48.0 72.0
 175 4.6 3.5 5.3





#69
p-Isopropyltoluene
Concen: 0.317 ppbv
RT: 11.917 min Scan# 3655
Delta R.T. -0.000 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

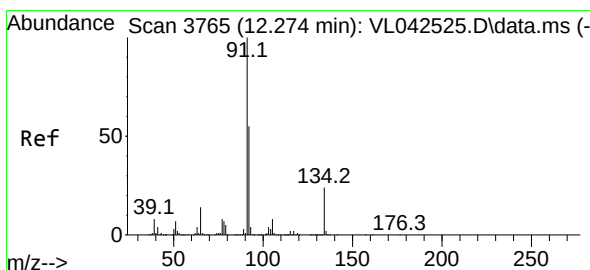
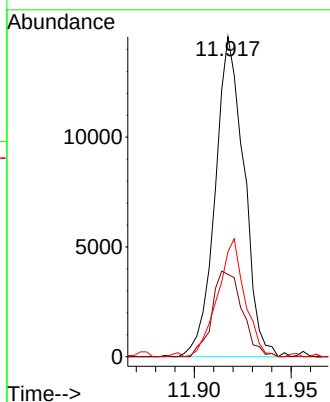
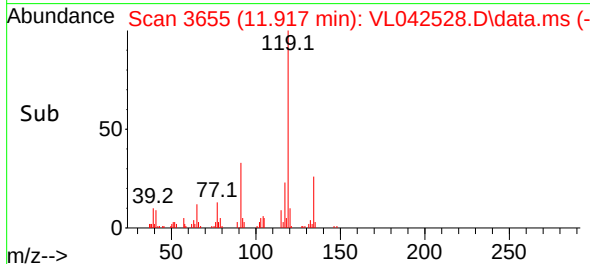
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



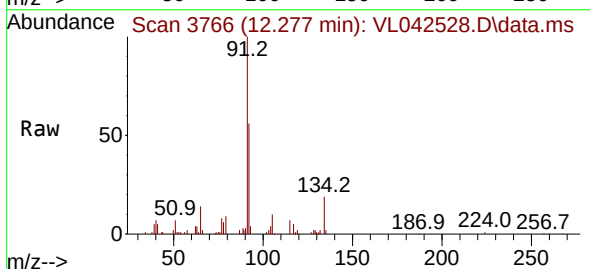
Tgt Ion: 119 Resp: 1507
Ion Ratio Lower Upper
119 100
134 28.1 19.8 29.6
91 36.2 23.6 35.4

Manual Integrations
APPROVED

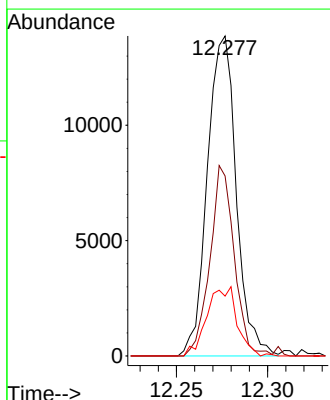
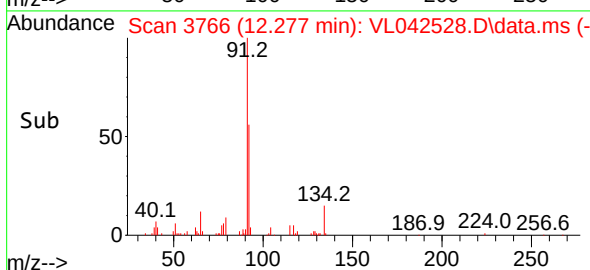
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

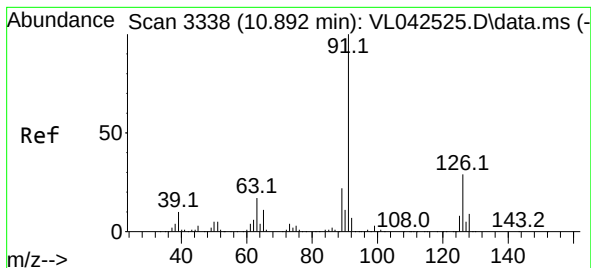


#70
n-Butylbenzene
Concen: 0.326 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. 0.003 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41



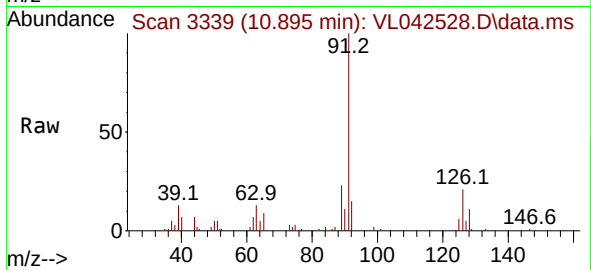
Tgt Ion: 91 Resp: 15321
Ion Ratio Lower Upper
91 100
92 50.6 43.7 65.5
134 22.5 18.9 28.3





#71
2-Chlorotoluene
Concen: 0.404 ppbv
RT: 10.895 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

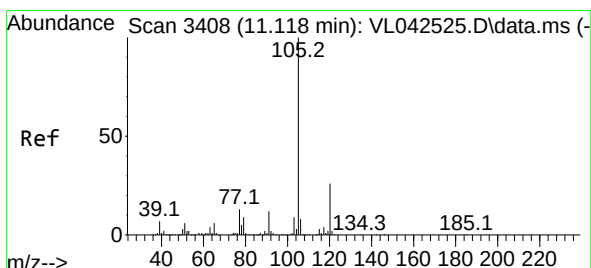
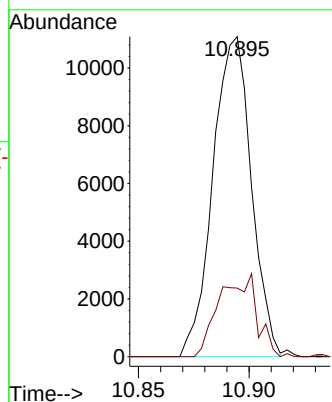
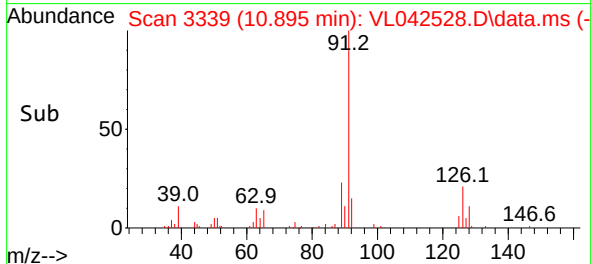
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



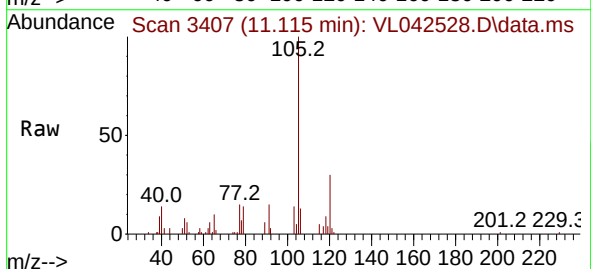
Tgt Ion: 91 Resp: 13420
Ion Ratio Lower Upper
91 100
126 25.4 11.4 45.6

Manual Integrations
APPROVED

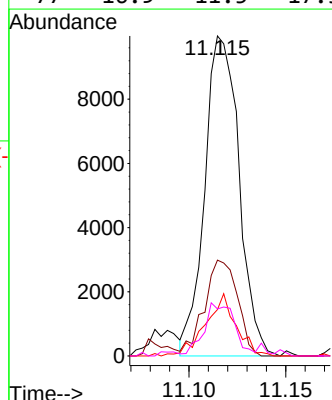
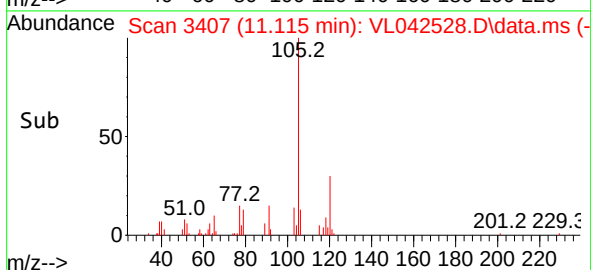
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

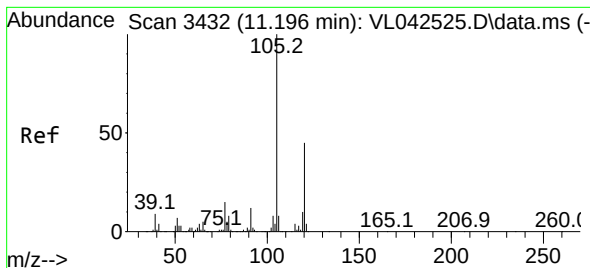


#72
4-Ethyltoluene
Concen: 0.340 ppbv
RT: 11.115 min Scan# 3407
Delta R.T. -0.004 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41



Tgt Ion:105 Resp: 12284
Ion Ratio Lower Upper
105 100
120 31.9 22.9 34.3
91 17.2 10.9 16.3#
77 16.9 11.5 17.3





#73

1,3,5-Trimethylbenzene

Concen: 0.342 ppbv m

RT: 11.199 min Scan# 3432

Delta R.T. 0.003 min

Lab File: VL042528.D

Acq: 12 May 2025 10:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion:105 Resp: 1077

Ion Ratio Lower Upper

105 100

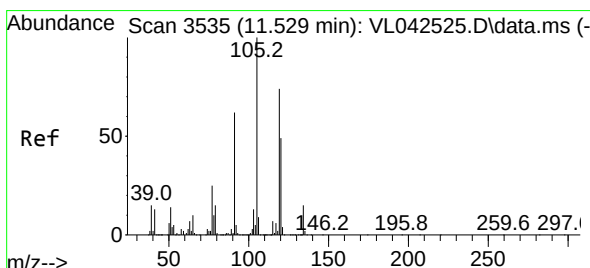
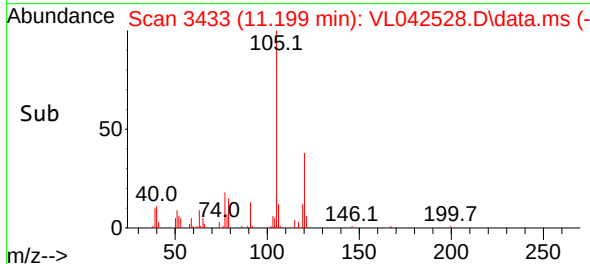
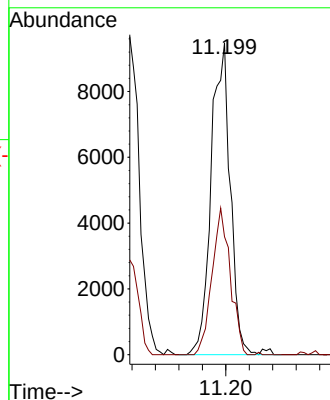
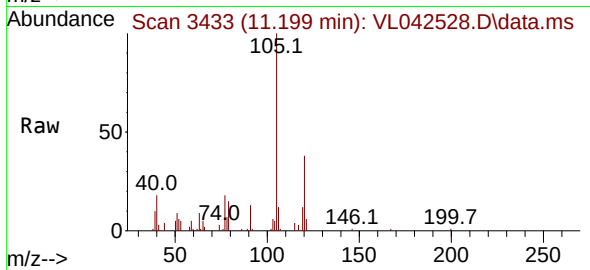
120 37.8 36.0 54.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025

Supervised By :Mahesh Dadoda 05/14/2025



#74

1,2,4-Trimethylbenzene

Concen: 0.339 ppbv

RT: 11.529 min Scan# 3535

Delta R.T. -0.000 min

Lab File: VL042528.D

Acq: 12 May 2025 10:41

Tgt Ion:105 Resp: 13113

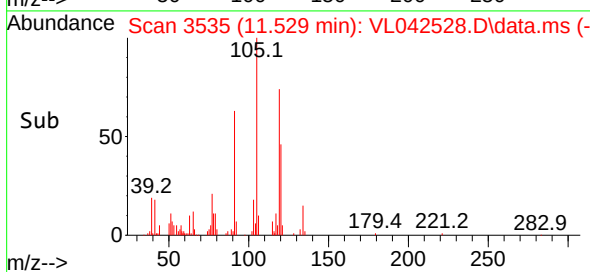
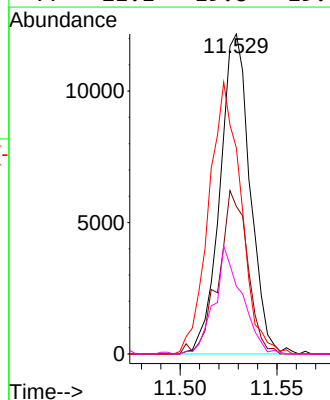
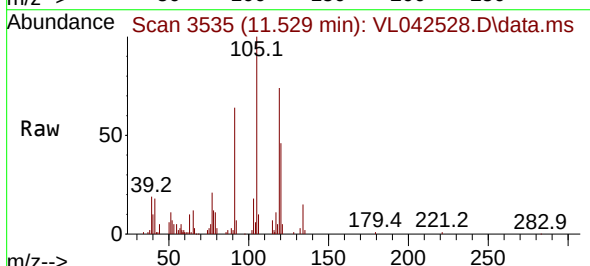
Ion Ratio Lower Upper

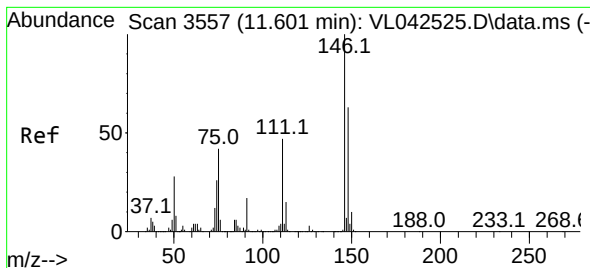
105 100

120 46.1 39.0 58.6

91 63.6 49.4 74.2

77 21.1 19.8 29.6





#75

1,3-Dichlorobenzene

Concen: 0.440 ppbv

RT: 11.600 min Scan# 3557

Delta R.T. -0.000 min

Lab File: VL042528.D

Acq: 12 May 2025 10:41

Instrument :

MSVOA_L

ClientSampleId :

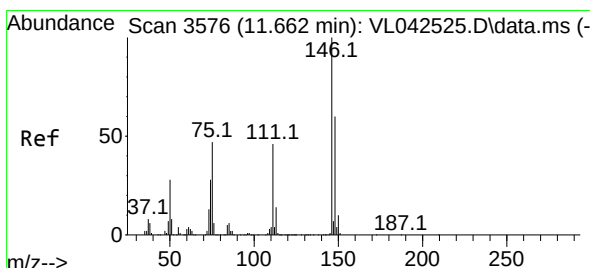
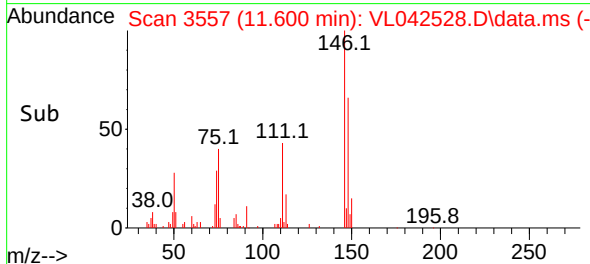
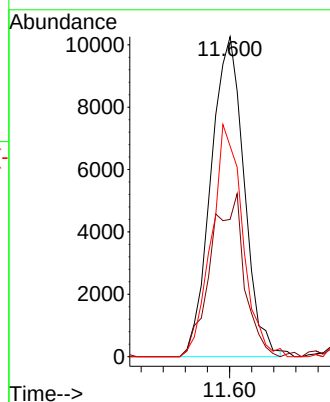
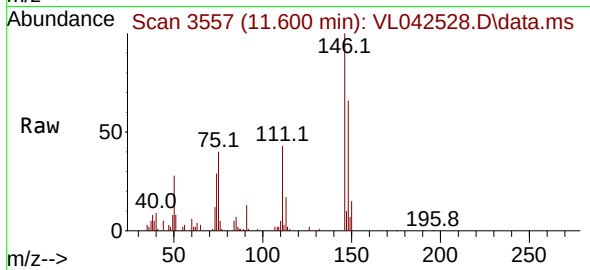
VSTDIC0.5

Tgt Ion:	146	Resp:	1068
Ion Ratio	Lower	Upper	
146	100		
111	51.7	23.6	71.0
148	68.0	31.6	94.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#76

1,4-Dichlorobenzene

Concen: 0.416 ppbv

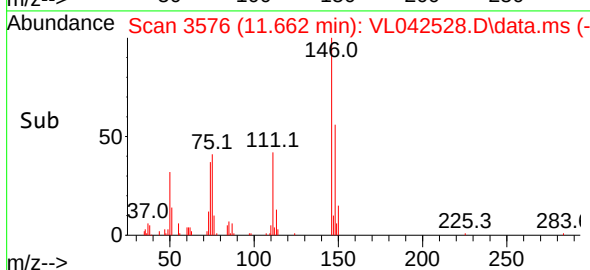
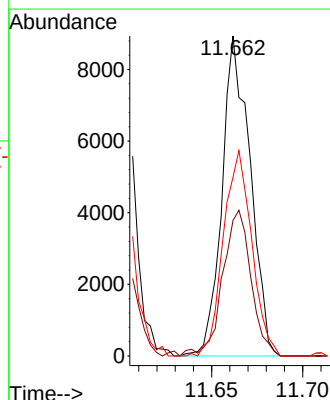
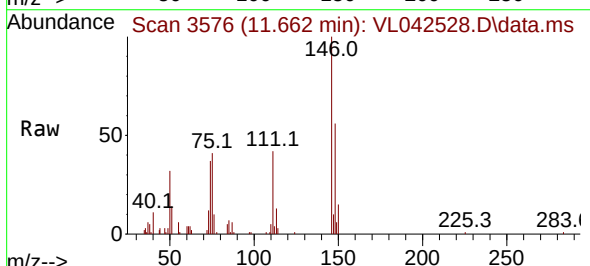
RT: 11.662 min Scan# 3576

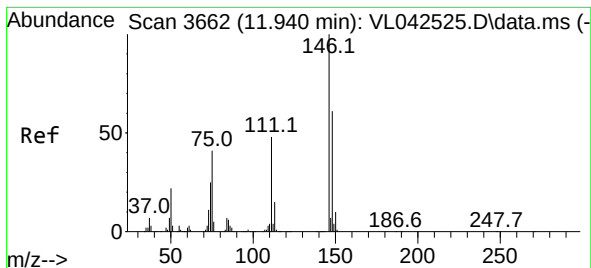
Delta R.T. -0.000 min

Lab File: VL042528.D

Acq: 12 May 2025 10:41

Tgt Ion:	146	Resp:	9591
Ion Ratio	Lower	Upper	
146	100		
111	45.9	23.4	70.3
148	64.7	31.6	94.7





#77

1,2-Dichlorobenzene

Concen: 0.490 ppbv

RT: 11.940 min Scan# 30

Delta R.T. -0.000 min

Lab File: VL042528.D

Acq: 12 May 2025 10:41

Instrument :

MSVOA_L

ClientSampleId :

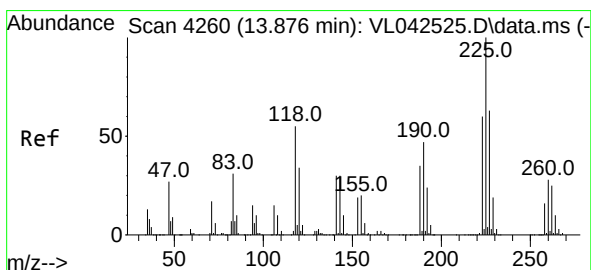
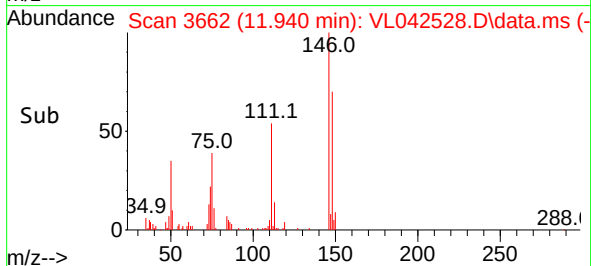
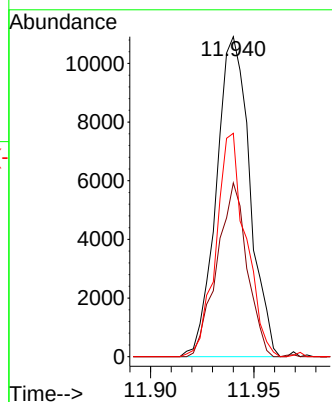
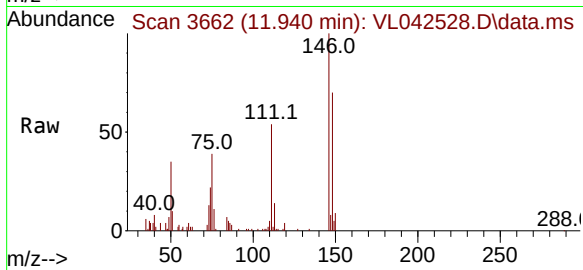
VSTDICC0.5

Tgt Ion:	146	Resp:	1227
Ion Ratio	Lower	Upper	
146	100		
111	49.1	24.9	74.8
148	62.7	31.4	94.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#78

Hexachloro-1,3-Butadiene

Concen: 0.537 ppbv

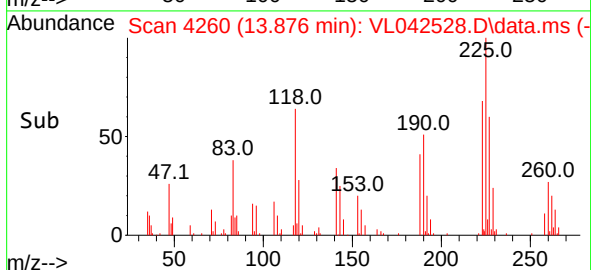
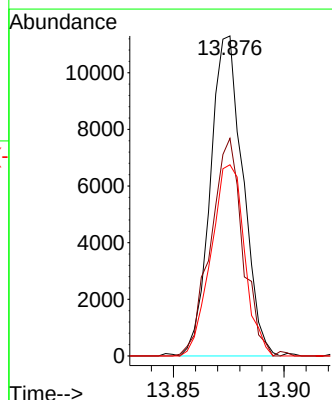
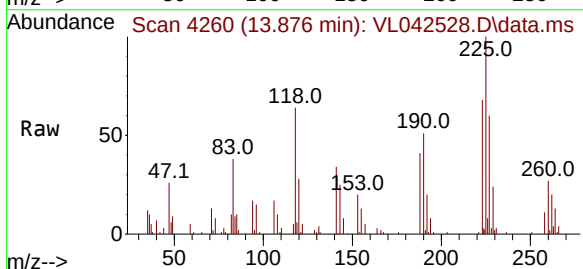
RT: 13.876 min Scan# 4260

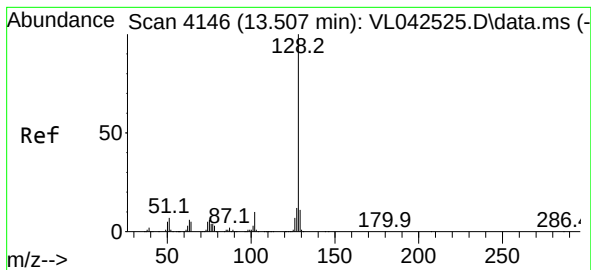
Delta R.T. -0.000 min

Lab File: VL042528.D

Acq: 12 May 2025 10:41

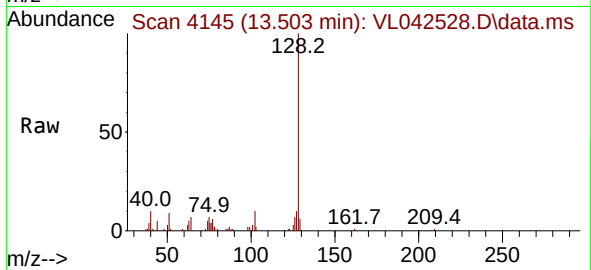
Tgt Ion:	225	Resp:	11535
Ion Ratio	Lower	Upper	
225	100		
223	67.9	50.8	76.2
227	61.5	50.5	75.7





#79
Naphthalene
Concen: 0.304 ppbv
RT: 13.503 min Scan# 4145
Delta R.T. -0.004 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

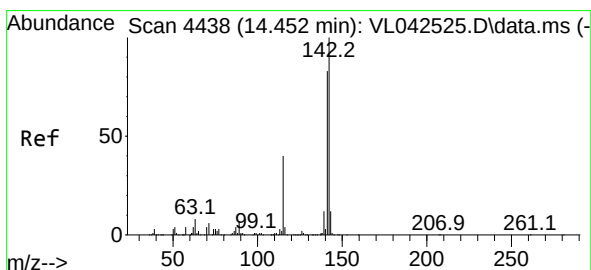
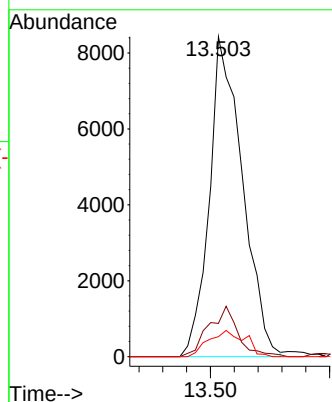
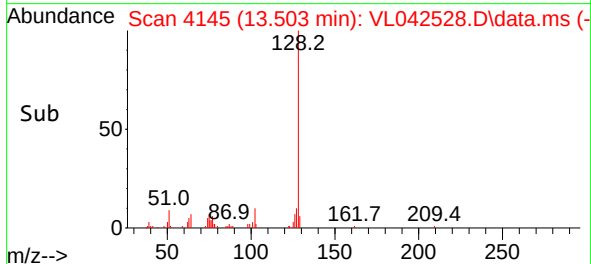
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



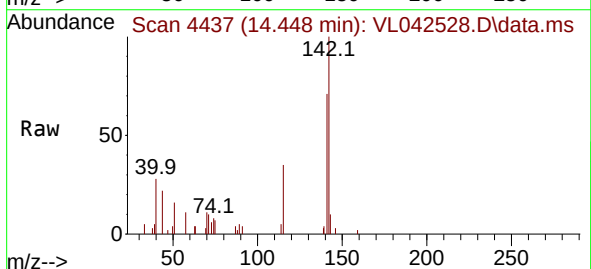
Tgt Ion:128 Resp: 813
Ion Ratio Lower Upper
128 100
127 10.4 9.8 14.8
129 6.2 8.6 12.8

Manual Integrations
APPROVED

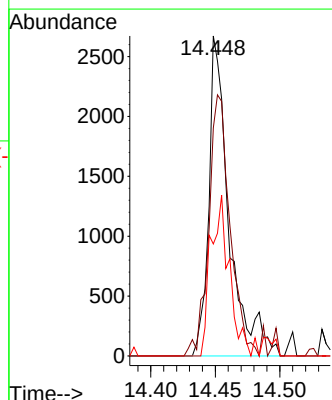
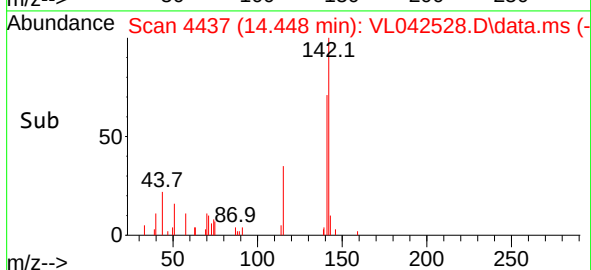
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

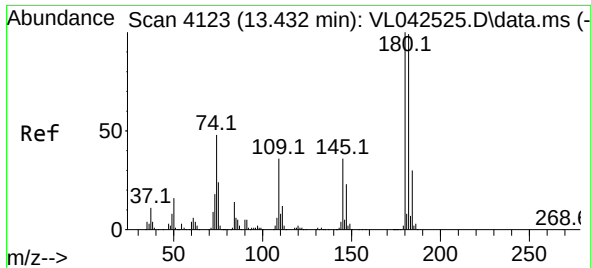


#80
Naphthalene,2-methyl-
Concen: 0.188 ppbv
RT: 14.448 min Scan# 4437
Delta R.T. -0.004 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41



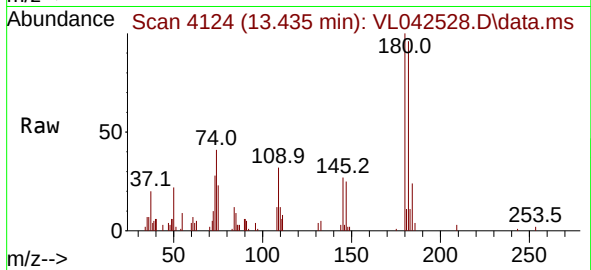
Tgt Ion:142 Resp: 2920
Ion Ratio Lower Upper
142 100
141 89.7 66.8 100.2
115 50.6 33.0 49.6





#81
 1,2,4-Trichlorobenzene
 Concen: 0.307 ppbv
 RT: 13.435 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL042528.D
 Acq: 12 May 2025 10:41

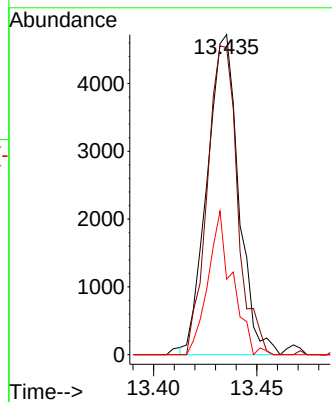
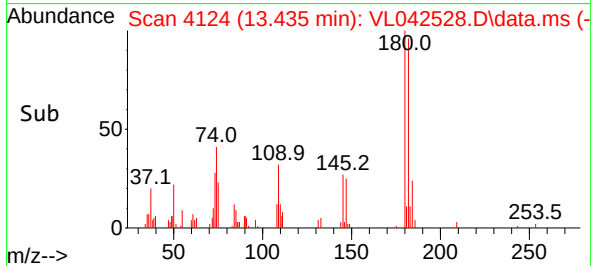
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



Tgt Ion	Ratio	Lower	Upper
180	100		
182	92.7	76.6	114.8
184	34.5	24.6	36.8

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051225\
 Data File : VL042529.D
 Acq On : 12 May 2025 11:15
 Operator : SY/MD
 Sample : VSTDICC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025

Quant Time: May 12 23:48:49 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M

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

QLast Update : Mon May 12 23:42:45 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.777	49	100628	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.946	114	280717	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.869	117	240256	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.367	95	201627	9.645	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.500%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.573	62	809	0.119	ppbv #	81
32) 1,1,1-Trichloroethane	3.353	97	2575	0.106	ppbv	95
35) Carbon Tetrachloride	3.755	117	2579m	0.102	ppbv	
38) Trichloroethene	4.528	130	1114m	0.105	ppbv	
52) Tetrachloroethene	8.212	164	1249m	0.130	ppbv	
54) 1,2-Dibromoethane	7.642	107	1664m	0.104	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.950	83	2392m	0.105	ppbv	
79) Naphthalene	13.510	128	1211m	0.046	ppbv	

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

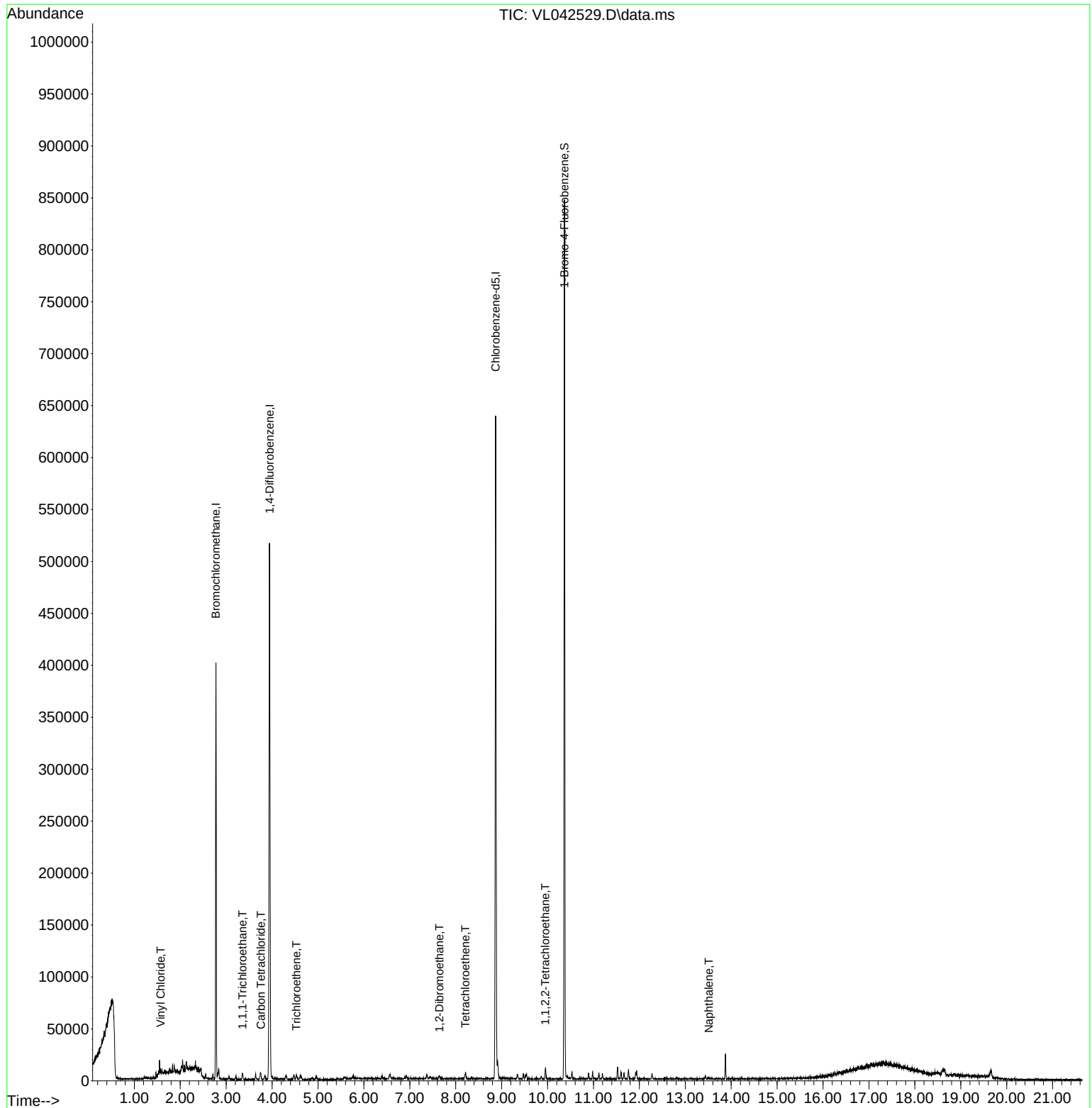
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051225\
Data File : VL042529.D
Acq On : 12 May 2025 11:15
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

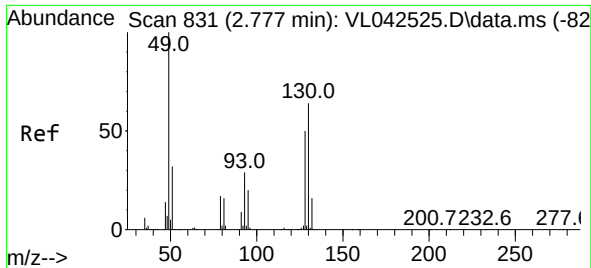
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

Quant Time: May 12 23:48:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Mon May 12 23:42:45 2025
Response via : Initial Calibration





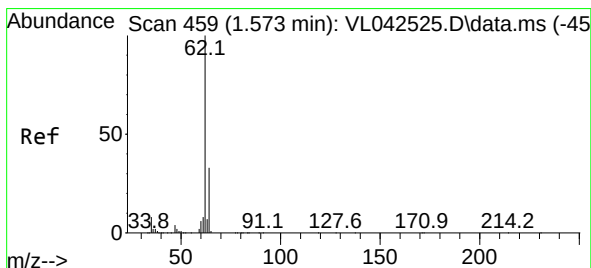
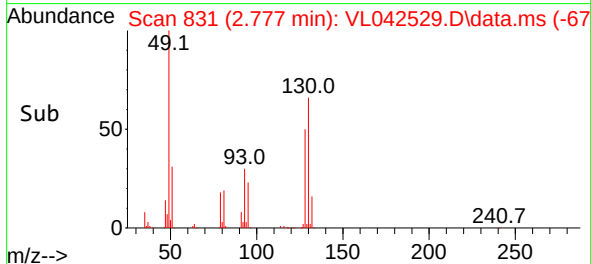
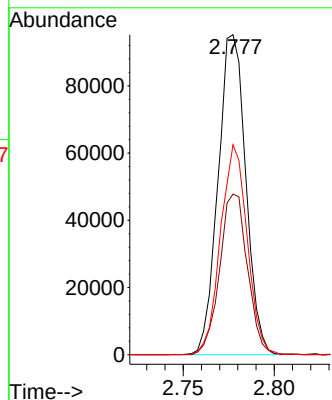
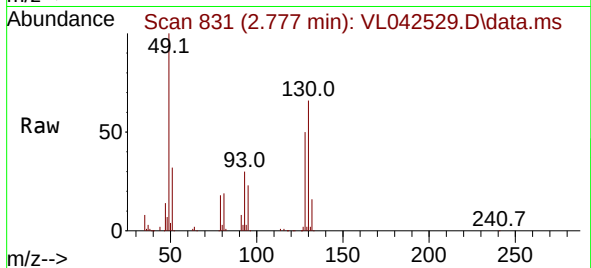
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.777 min Scan# 831
Delta R.T. 0.000 min
Lab File: VL042529.D
Acq: 12 May 2025 11:15

Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

Tgt Ion: 49 Resp: 100628
Ion Ratio Lower Upper
49 100
128 50.3 24.9 74.6
130 63.2 32.5 97.5

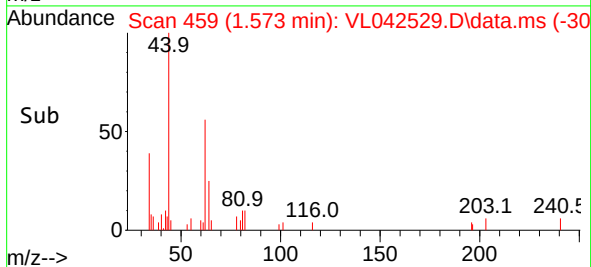
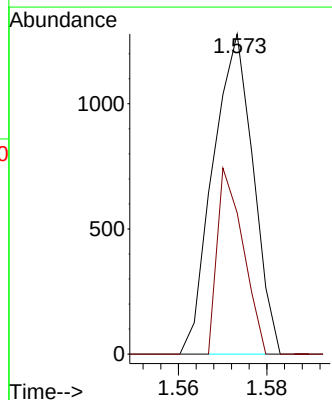
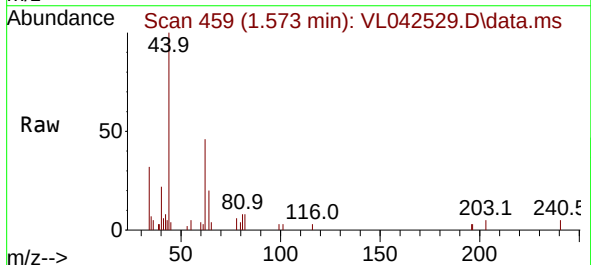
Manual Integrations
APPROVED

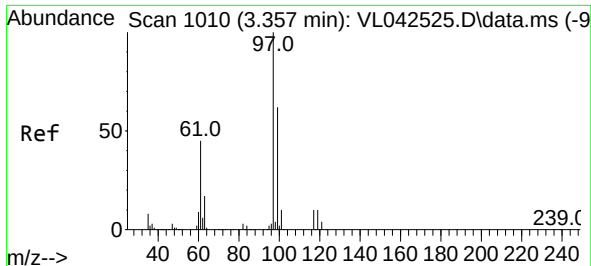
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#5
Vinyl Chloride
Concen: 0.119 ppbv
RT: 1.573 min Scan# 459
Delta R.T. -0.000 min
Lab File: VL042529.D
Acq: 12 May 2025 11:15

Tgt Ion: 62 Resp: 809
Ion Ratio Lower Upper
62 100
64 44.1 26.5 39.7#





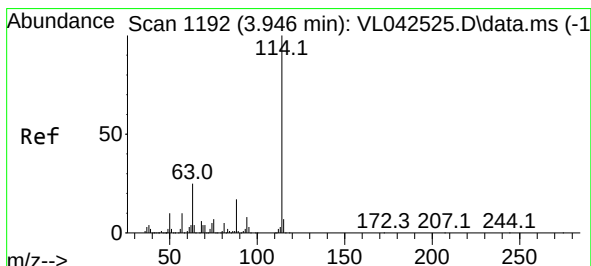
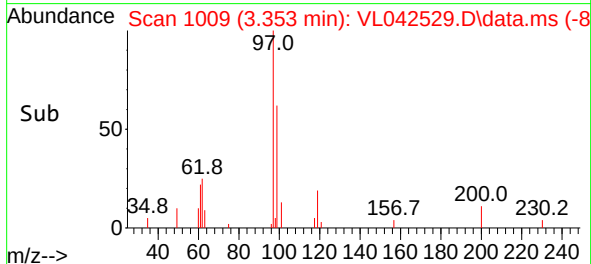
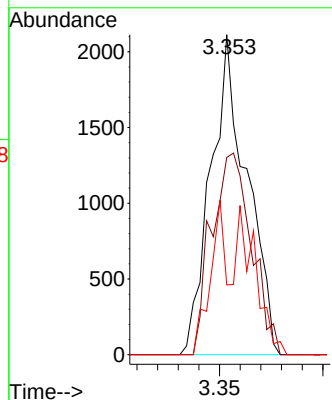
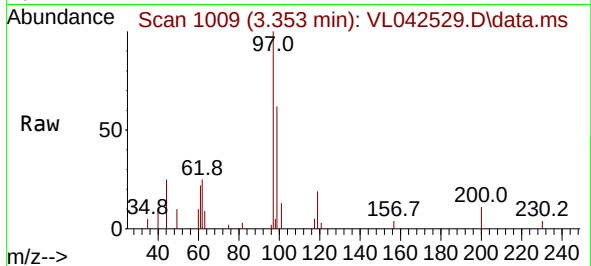
#32
1,1,1-Trichloroethane
Concen: 0.106 ppbv
RT: 3.353 min Scan# 1009
Delta R.T. -0.003 min
Lab File: VL042529.D
Acq: 12 May 2025 11:15

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 97 Resp: 257
Ion Ratio Lower Upper
97 100
99 69.6 50.1 75.1
61 47.6 38.2 57.2

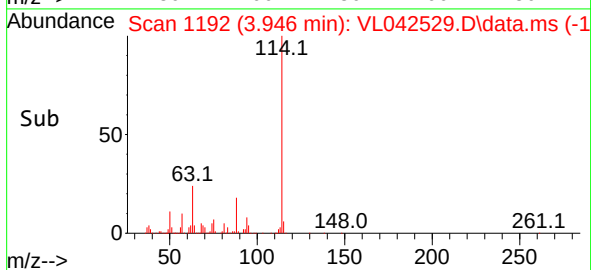
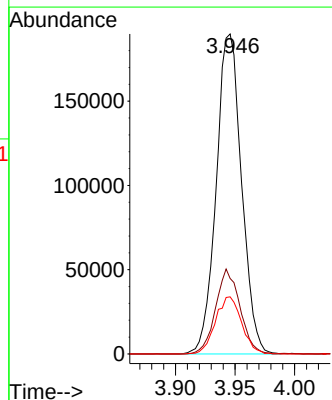
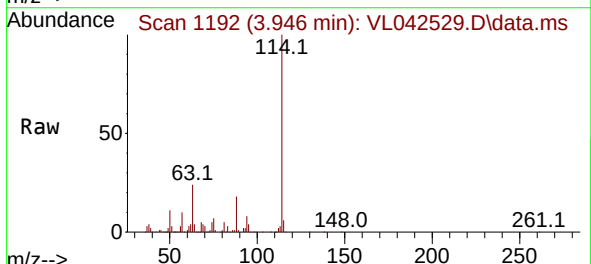
Manual Integrations
APPROVED

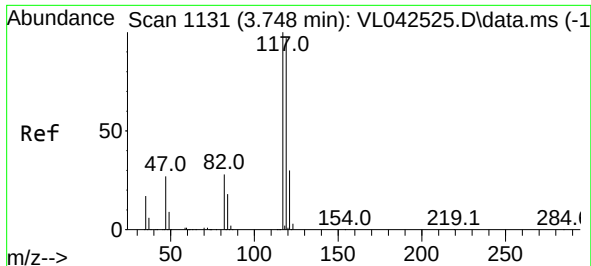
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.946 min Scan# 1192
Delta R.T. -0.000 min
Lab File: VL042529.D
Acq: 12 May 2025 11:15

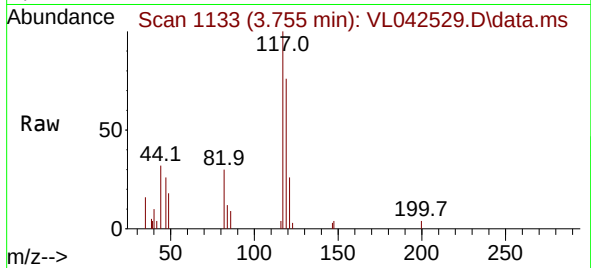
Tgt Ion:114 Resp: 280717
Ion Ratio Lower Upper
114 100
63 25.5 20.4 30.6
88 18.4 14.5 21.7





#35
Carbon Tetrachloride
Concen: 0.102 ppbv m
RT: 3.755 min Scan# 1131
Delta R.T. 0.006 min
Lab File: VL042529.D
Acq: 12 May 2025 11:15

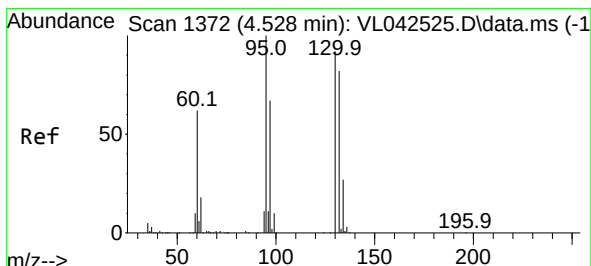
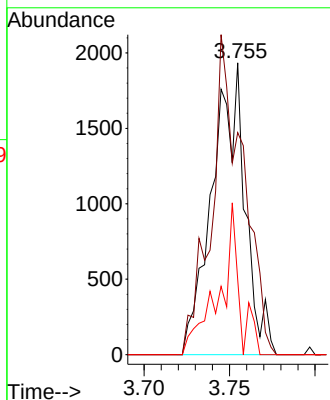
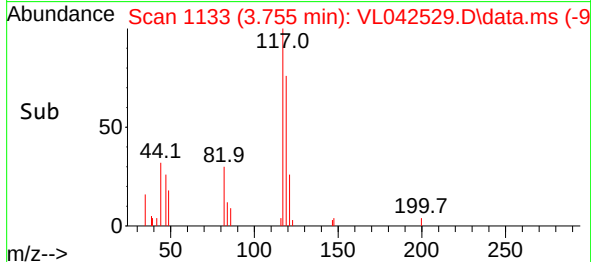
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1



Tgt Ion:117 Resp: 2579
Ion Ratio Lower Upper
117 100
119 76.1 77.7 116.5
121 25.6 24.0 36.0

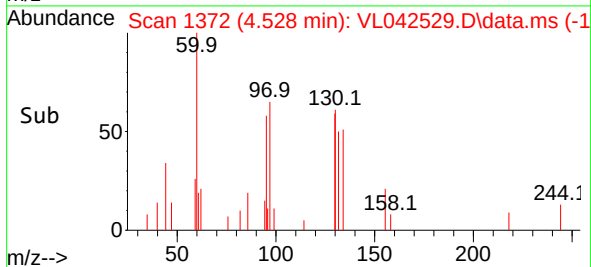
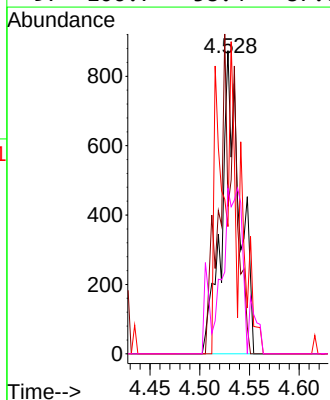
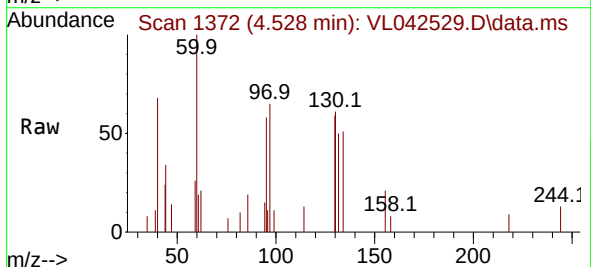
Manual Integrations
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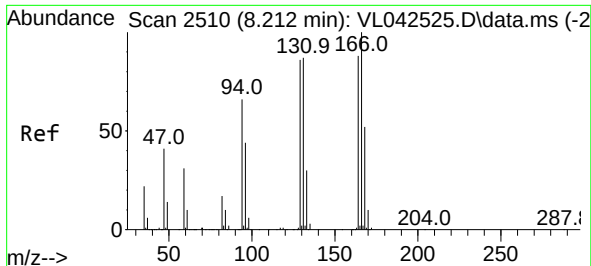
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#38
Trichloroethene
Concen: 0.105 ppbv m
RT: 4.528 min Scan# 1372
Delta R.T. -0.000 min
Lab File: VL042529.D
Acq: 12 May 2025 11:15

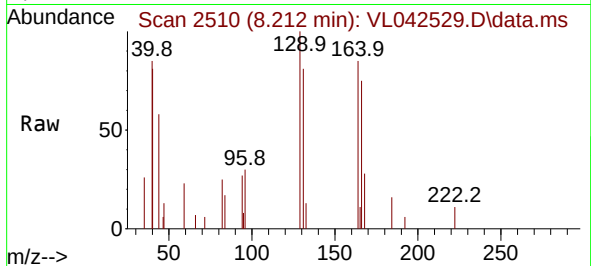
Tgt Ion:130 Resp: 1114
Ion Ratio Lower Upper
130 100
95 95.1 87.0 130.4
132 82.1 71.1 106.7
97 106.7 58.4 87.6#





#52
Tetrachloroethene
Concen: 0.130 ppbv m
RT: 8.212 min Scan# 2510
Delta R.T. -0.000 min
Lab File: VL042529.D
Acq: 12 May 2025 11:15

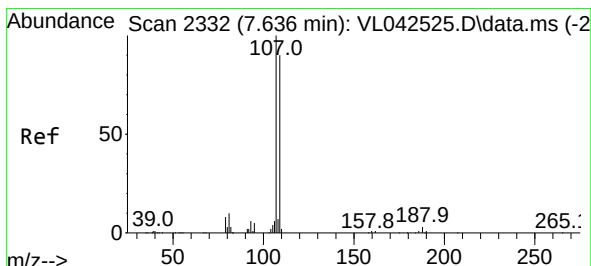
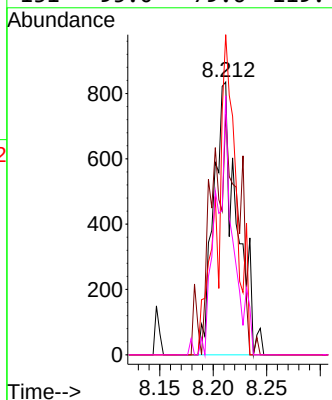
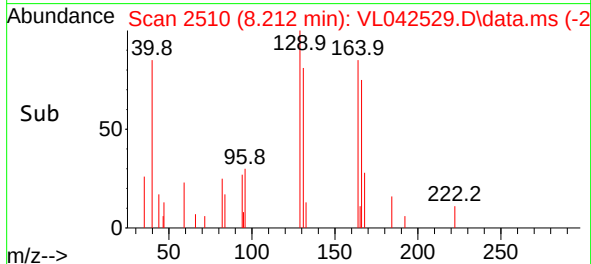
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1



Tgt Ion:164 Resp: 1249
Ion Ratio Lower Upper
164 100
166 88.1 91.3 136.9
129 117.4 78.9 118.3
131 95.0 79.6 119.4

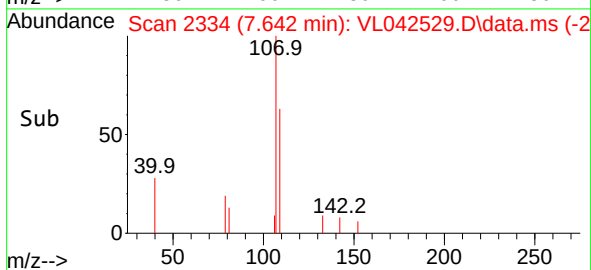
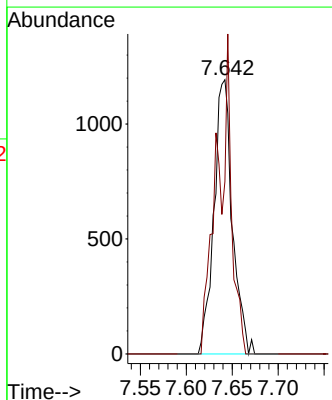
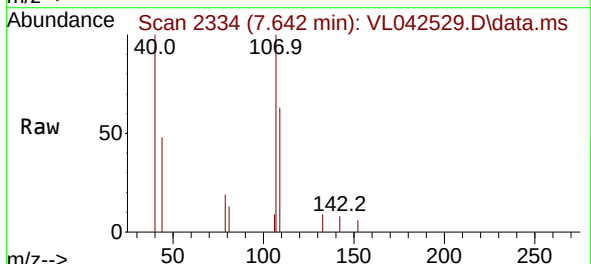
Manual Integrations
APPROVED

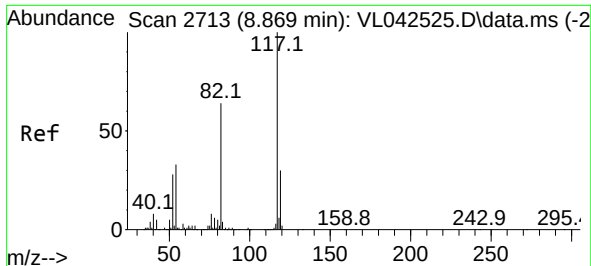
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#54
1,2-Dibromoethane
Concen: 0.104 ppbv m
RT: 7.642 min Scan# 2334
Delta R.T. 0.006 min
Lab File: VL042529.D
Acq: 12 May 2025 11:15

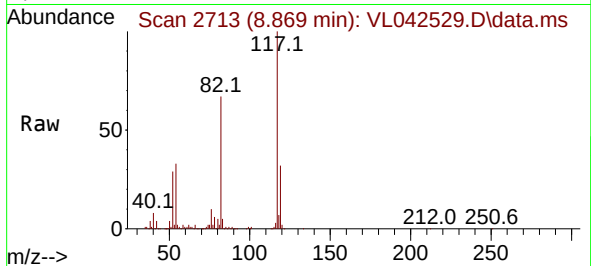
Tgt Ion:107 Resp: 1664
Ion Ratio Lower Upper
107 100
109 62.9 72.2 108.4





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.869 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042529.D
Acq: 12 May 2025 11:15

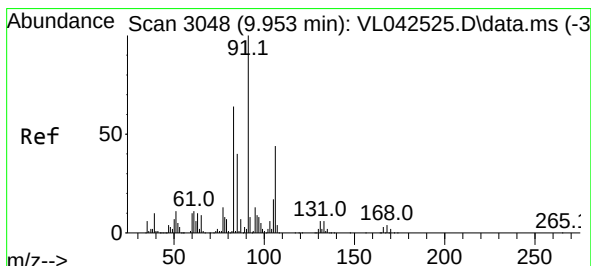
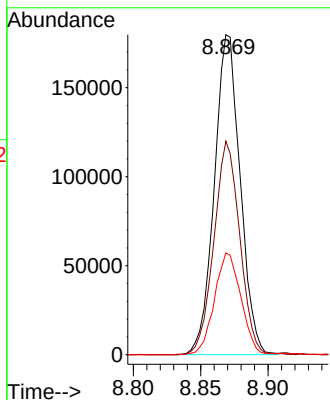
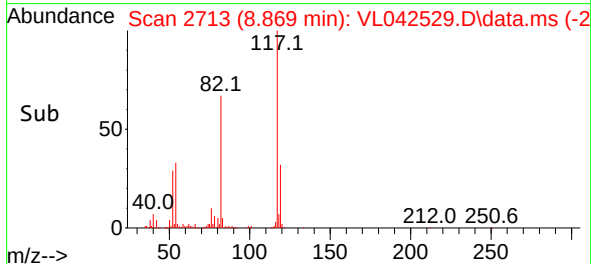
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1



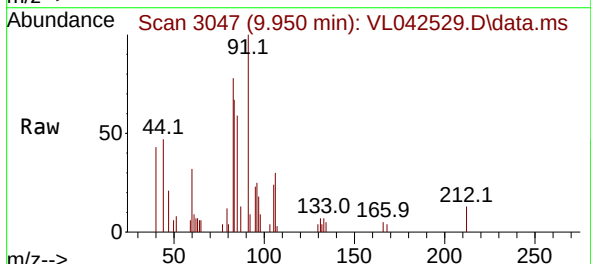
Tgt Ion: 117 Resp: 240250
Ion Ratio Lower Upper
117 100
82 66.7 55.0 82.4
119 32.9 25.8 38.6

Manual Integrations
APPROVED

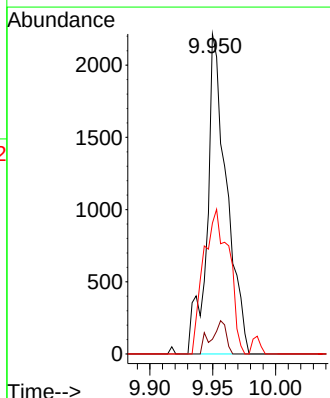
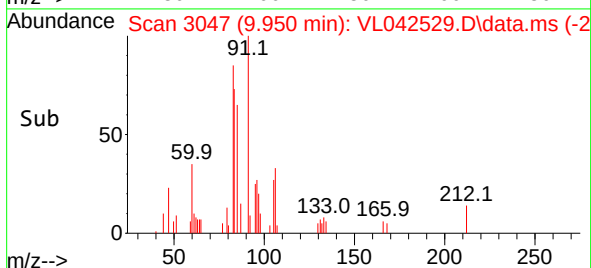
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

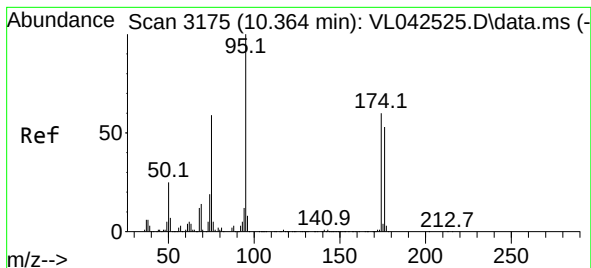


#63
1,1,2,2-Tetrachloroethane
Concen: 0.105 ppbv m
RT: 9.950 min Scan# 3047
Delta R.T. -0.003 min
Lab File: VL042529.D
Acq: 12 May 2025 11:15



Tgt Ion: 83 Resp: 2392
Ion Ratio Lower Upper
83 100
131 7.9 4.9 14.7
85 61.3 32.3 96.8





#68

1-Bromo-4-Fluorobenzene

Concen: 9.645 ppbv

RT: 10.367 min Scan# 3175

Delta R.T. 0.003 min

Lab File: VL042529.D

Acq: 12 May 2025 11:15

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tgt Ion: 95 Resp: 20162

Ion Ratio Lower Upper

95 100

174 59.9 48.0 72.0

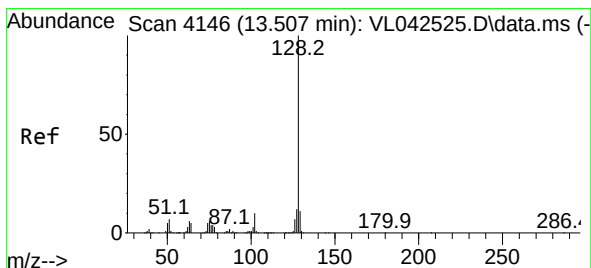
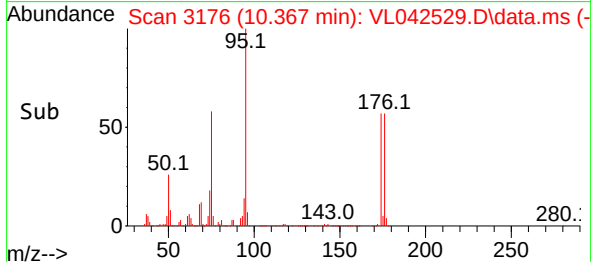
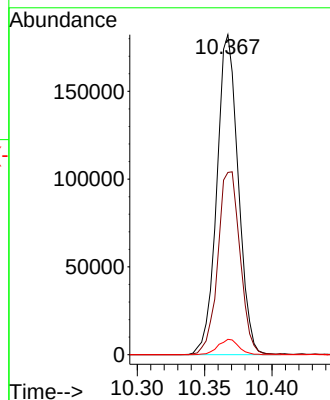
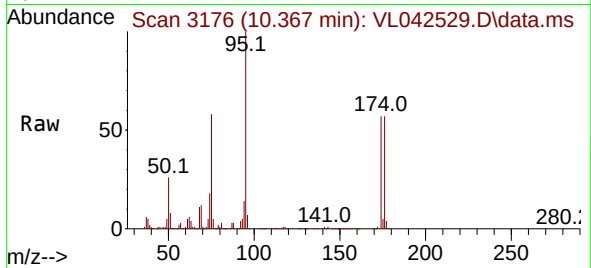
175 4.6 3.5 5.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025

Supervised By :Mahesh Dadoda 05/14/2025



#79

Naphthalene

Concen: 0.046 ppbv m

RT: 13.510 min Scan# 4147

Delta R.T. 0.003 min

Lab File: VL042529.D

Acq: 12 May 2025 11:15

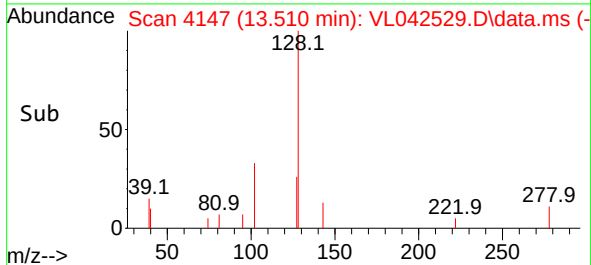
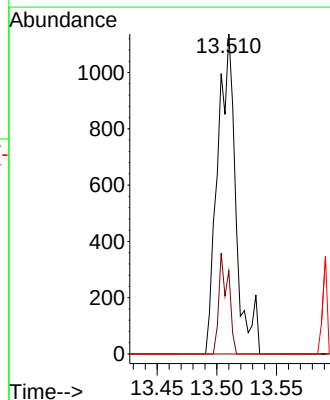
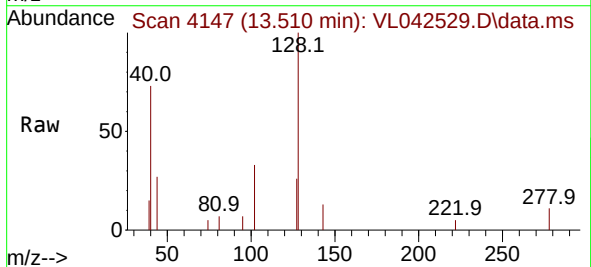
Tgt Ion:128 Resp: 1211

Ion Ratio Lower Upper

128 100

127 26.0 9.8 14.8#

129 0.0 8.6 12.8#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051225\
 Data File : VL042530.D
 Acq On : 12 May 2025 11:49
 Operator : SY/MD
 Sample : VSTDICC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025

Quant Time: May 12 23:49:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Mon May 12 23:42:45 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.780	49	96870	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	261294	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	223954	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	190537	9.778	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.800%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.576	62	229	0.035	ppbv #	4
32) 1,1,1-Trichloroethane	3.360	97	842m	0.036	ppbv	
35) Carbon Tetrachloride	3.761	117	785m	0.033	ppbv	
38) Trichloroethene	4.531	130	361m	0.036	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.959	83	786m	0.037	ppbv	

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

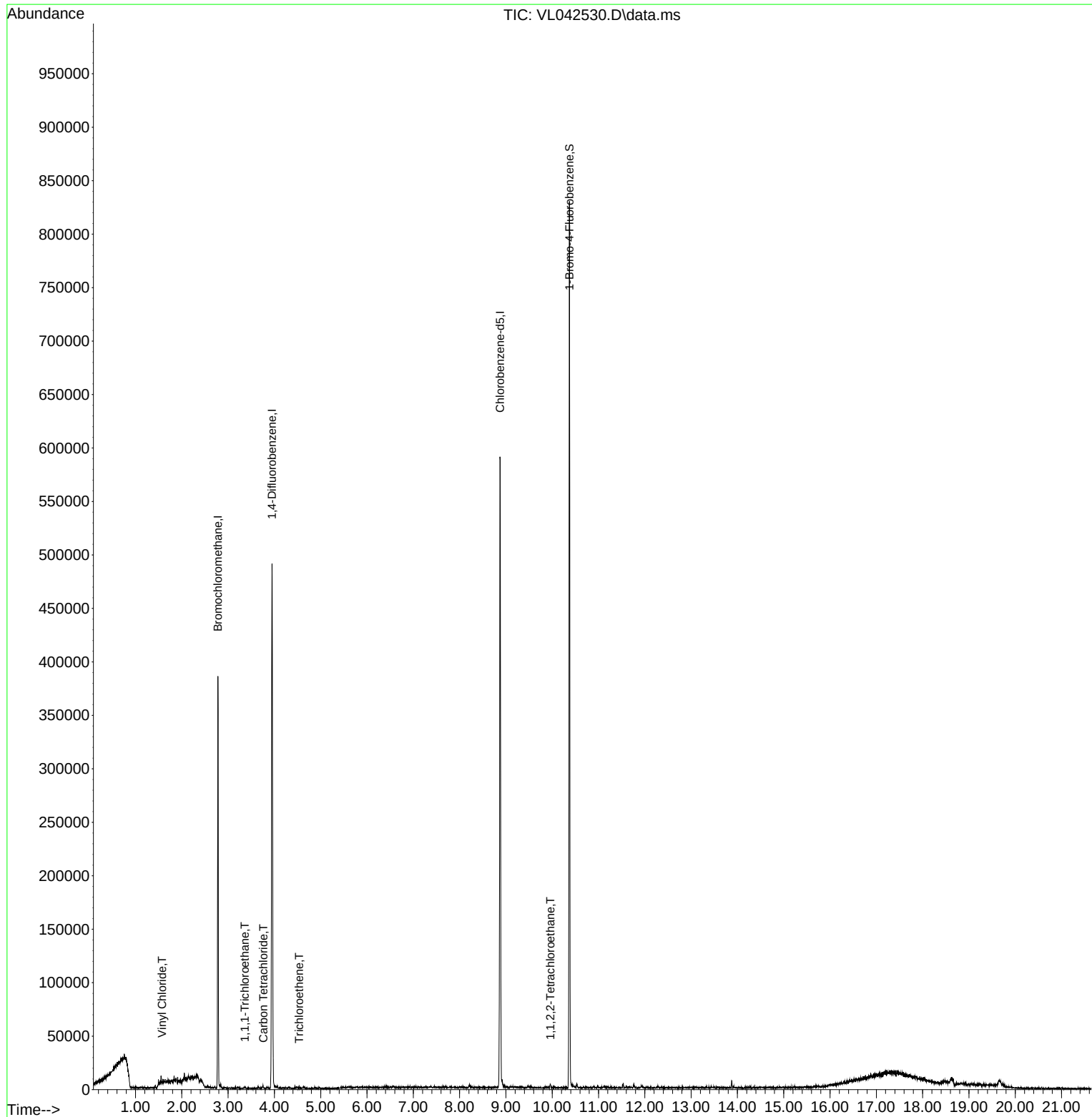
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Data File : VL042530.D
Acq On : 12 May 2025 11:49
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

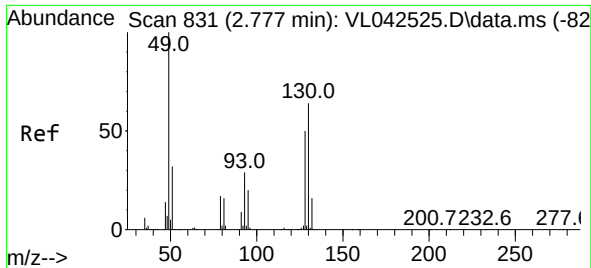
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

Quant Time: May 12 23:49:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Mon May 12 23:42:45 2025
Response via : Initial Calibration





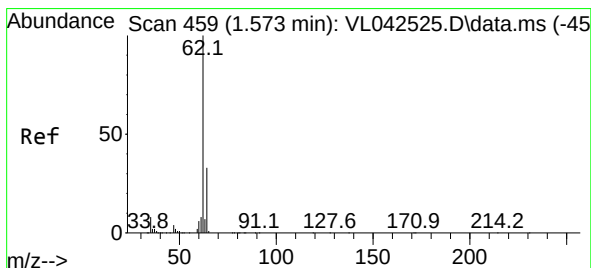
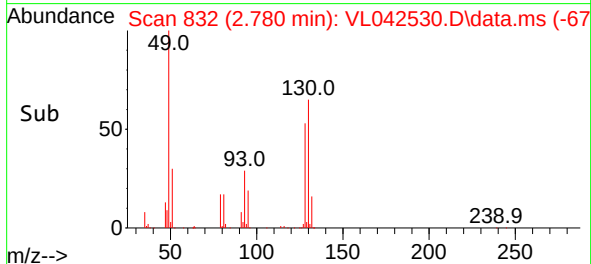
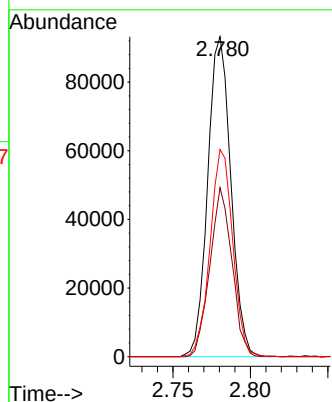
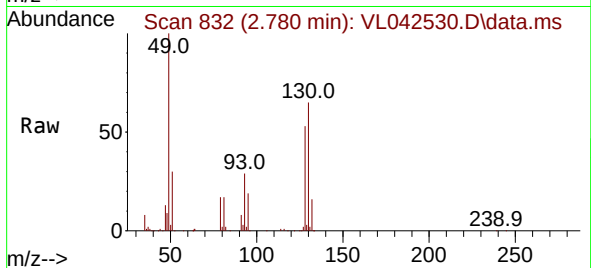
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.780 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042530.D
Acq: 12 May 2025 11:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 49 Resp: 96870
Ion Ratio Lower Upper
49 100
128 50.2 24.9 74.6
130 63.5 32.5 97.5

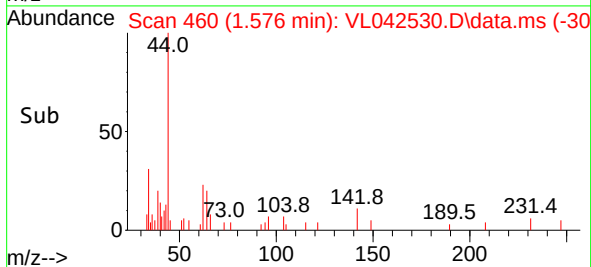
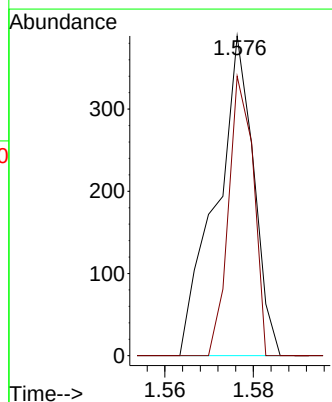
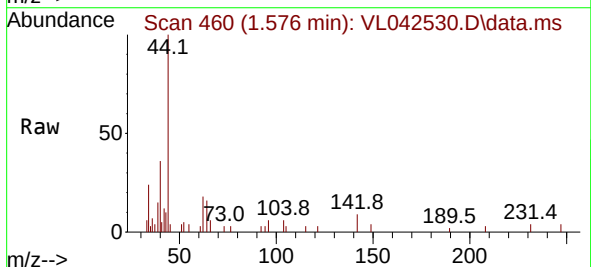
Manual Integrations
APPROVED

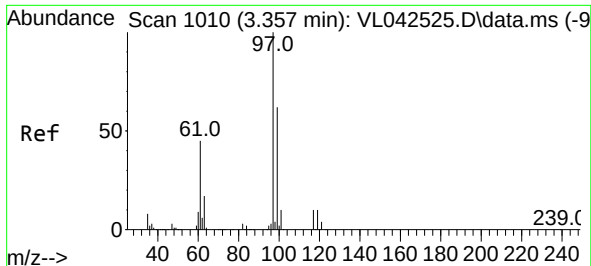
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#5
Vinyl Chloride
Concen: 0.035 ppbv
RT: 1.576 min Scan# 460
Delta R.T. 0.003 min
Lab File: VL042530.D
Acq: 12 May 2025 11:49

Tgt Ion: 62 Resp: 229
Ion Ratio Lower Upper
62 100
64 87.4 26.5 39.7#





#32

1,1,1-Trichloroethane

Concen: 0.036 ppbv m

RT: 3.360 min Scan# 1010

Delta R.T. 0.003 min

Lab File: VL042530.D

Acq: 12 May 2025 11:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.03

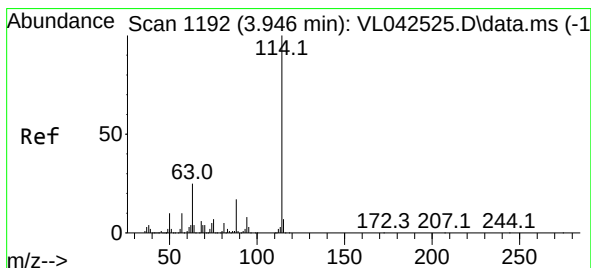
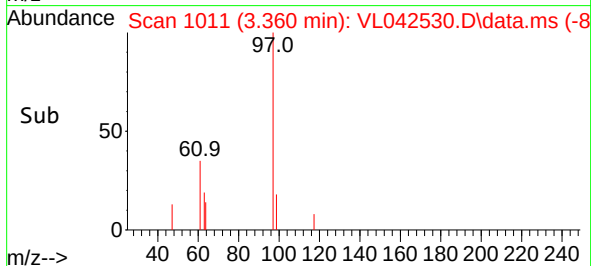
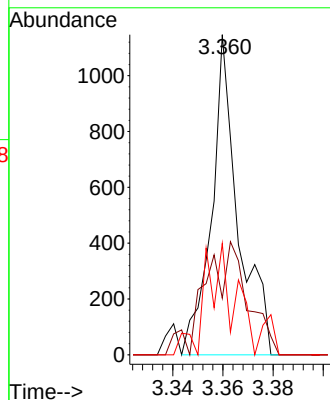
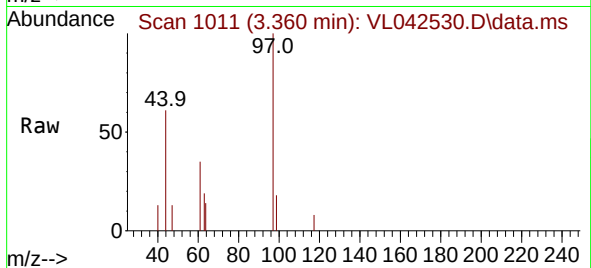
Tgt Ion: 97	Resp: 84
Ion Ratio	Lower Upper
97 100	
99 57.2	50.1 75.1
61 43.5	38.2 57.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025

Supervised By :Mahesh Dadoda 05/14/2025



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

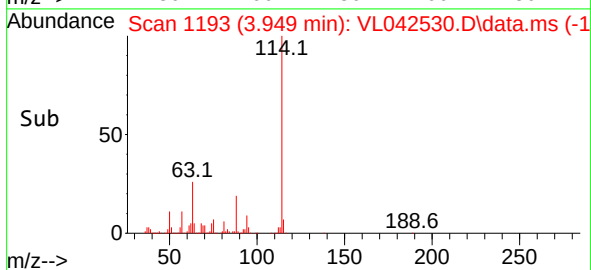
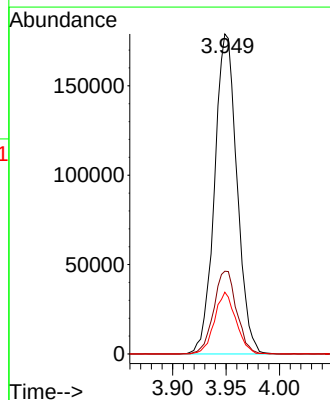
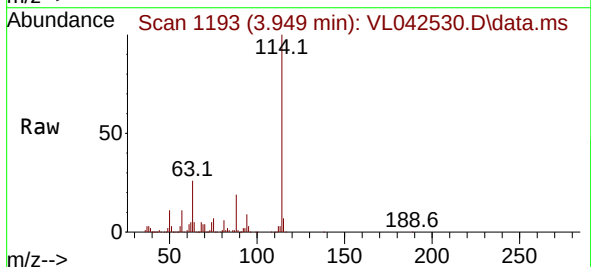
RT: 3.949 min Scan# 1193

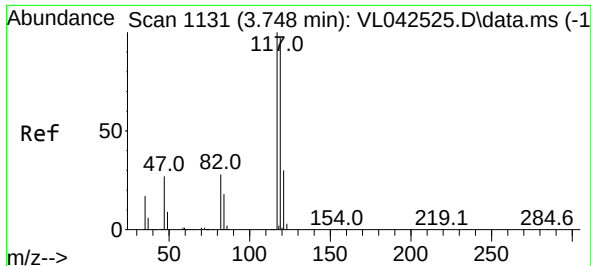
Delta R.T. 0.003 min

Lab File: VL042530.D

Acq: 12 May 2025 11:49

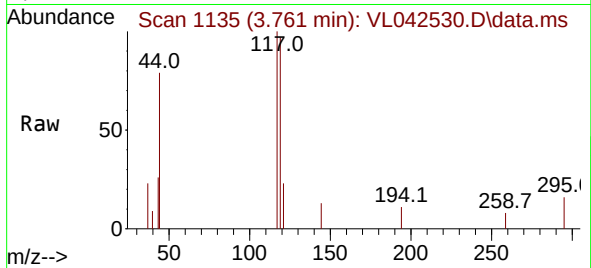
Tgt Ion:114	Resp: 261294
Ion Ratio	Lower Upper
114 100	
63 26.5	20.4 30.6
88 18.6	14.5 21.7





#35
Carbon Tetrachloride
Concen: 0.033 ppbv m
RT: 3.761 min Scan# 1135
Delta R.T. 0.013 min
Lab File: VL042530.D
Acq: 12 May 2025 11:49

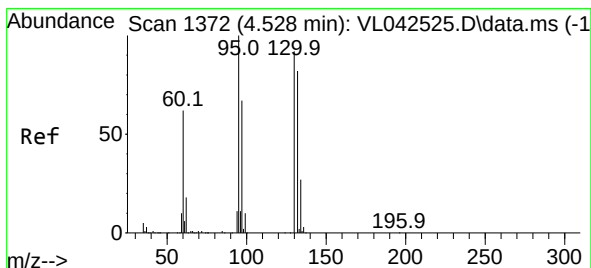
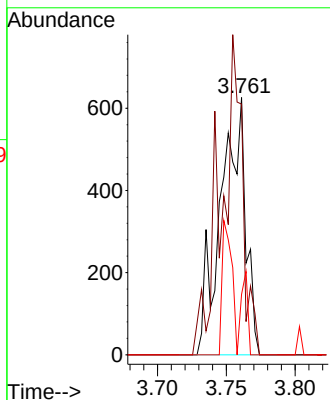
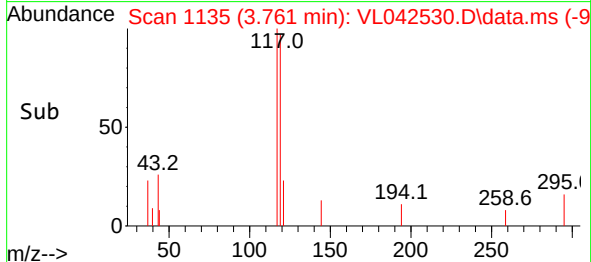
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03



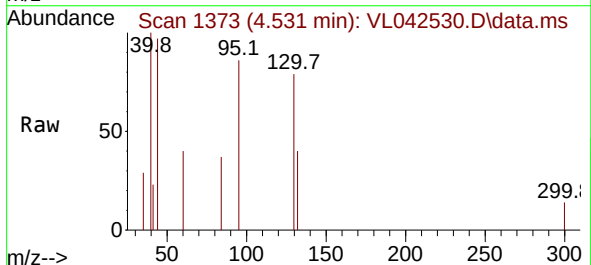
Tgt Ion:117 Resp: 789
Ion Ratio Lower Upper
117 100
119 97.4 77.7 116.5
121 23.5 24.0 36.0

Manual Integrations
APPROVED

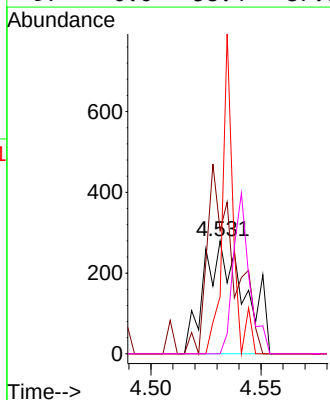
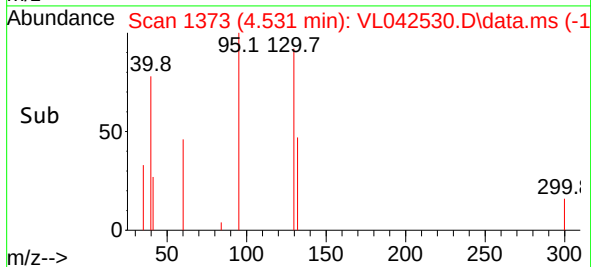
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

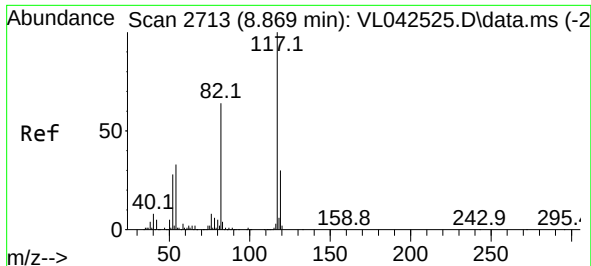


#38
Trichloroethene
Concen: 0.036 ppbv m
RT: 4.531 min Scan# 1373
Delta R.T. 0.003 min
Lab File: VL042530.D
Acq: 12 May 2025 11:49



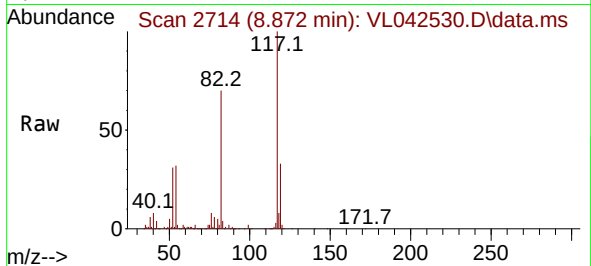
Tgt Ion:130 Resp: 361
Ion Ratio Lower Upper
130 100
95 108.9 87.0 130.4
132 50.7 71.1 106.7#
97 0.0 58.4 87.6#





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042530.D
Acq: 12 May 2025 11:49

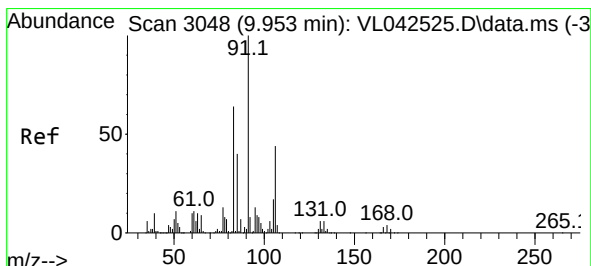
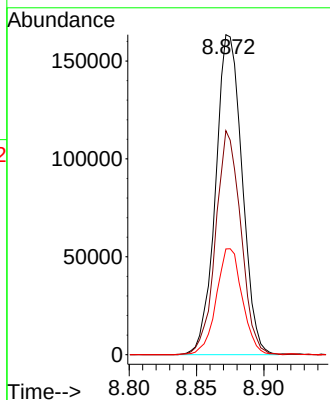
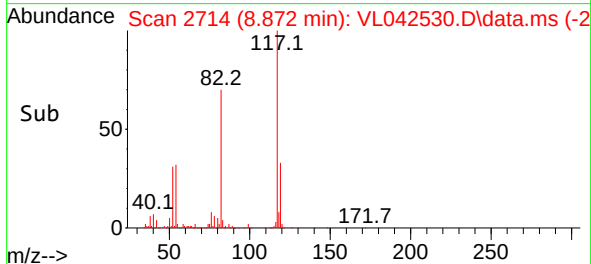
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03



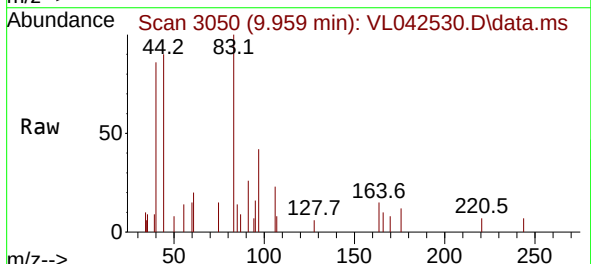
Tgt Ion: 117 Resp: 223954
Ion Ratio Lower Upper
117 100
82 66.6 55.0 82.4
119 32.6 25.8 38.6

Manual Integrations
APPROVED

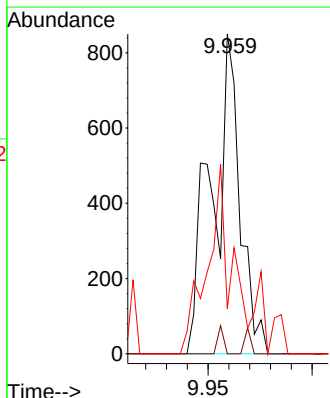
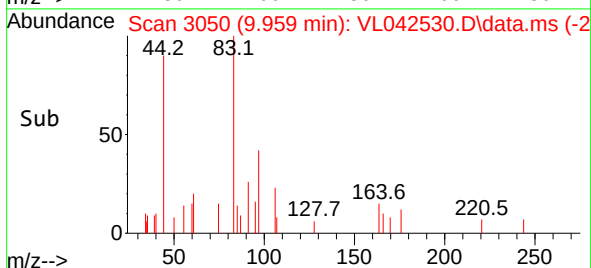
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

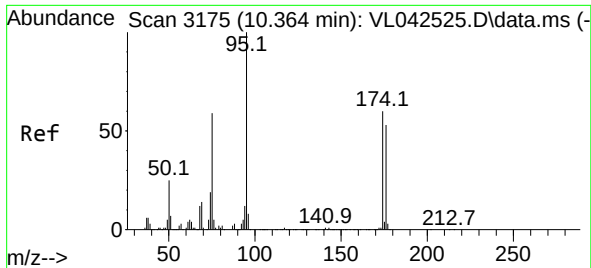


#63
1,1,2,2-Tetrachloroethane
Concen: 0.037 ppbv m
RT: 9.959 min Scan# 3050
Delta R.T. 0.006 min
Lab File: VL042530.D
Acq: 12 May 2025 11:49



Tgt Ion: 83 Resp: 786
Ion Ratio Lower Upper
83 100
131 0.0 4.9 14.7#
85 63.6 32.3 96.8





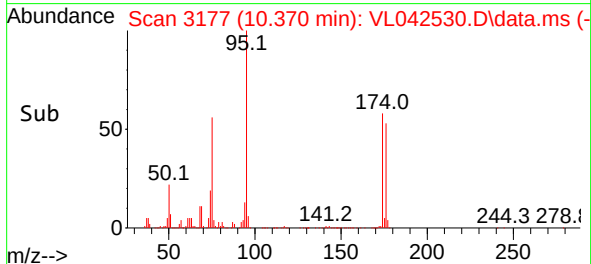
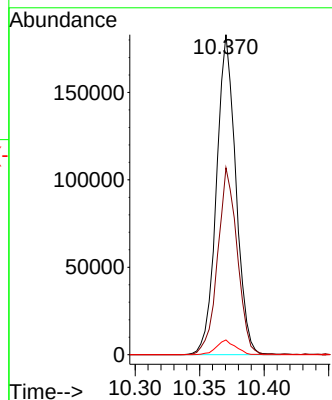
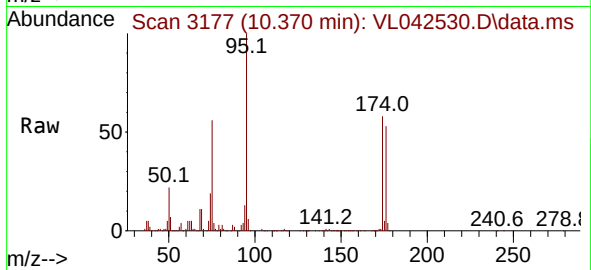
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.778 ppbv
 RT: 10.370 min Scan# 3177
 Delta R.T. 0.006 min
 Lab File: VL042530.D
 Acq: 12 May 2025 11:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

Tgt Ion:	95	Resp:	19053
Ion Ratio	Lower	Upper	
95	100		
174	59.3	48.0	72.0
175	4.5	3.5	5.3

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051225\
 Data File : VL042532.D
 Acq On : 12 May 2025 12:58
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 05/14/2025
 Supervised By : Mahesh Dadoda 05/14/2025

Quant Time: May 12 23:50:30 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M

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

QLast Update : Mon May 12 23:42:45 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	103341	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	300628	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	251305	10.000	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 223868 10.238 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	34904	2.080	ppbv	96
3) Chlorodifluoromethane	1.473	51	37203	2.175	ppbv	99
4) Chloromethane	1.528	50	15355	2.242	ppbv	98
5) Vinyl Chloride	1.577	62	13527	1.930	ppbv	100
6) Bromomethane	1.664	94	6881	2.068	ppbv	92
7) Chloroethane	1.703	64	6208m	2.251	ppbv	
8) Dichlorotetrafluoroethane	1.551	85	29662	2.054	ppbv	98
9) Propene	1.479	41	3429	0.923	ppbv #	1
10) Heptane	4.975	43	28195	1.991	ppbv	97
11) Trichlorofluoromethane	1.874	101	34879	2.161	ppbv	92
12) 1,1,2-Trichlorotrifluo...	2.136	101	27757	2.141	ppbv	95
13) Ethanol	1.719	45	1983	1.956	ppbv	89
14) Bromoethene	1.780	108	10359	2.192	ppbv	95
15) Acetone	1.832	43	37463	2.269	ppbv	98
16) 1,3-Butadiene	1.606	39	15833	2.132	ppbv	95
17) tert-Butyl alcohol	2.039	59	30915	2.026	ppbv	98
18) 1,1-Dichloroethene	2.033	96	11781	2.073	ppbv	87
19) Isopropyl Alcohol	1.884	45	18501	2.062	ppbv #	95
20) Methylene Chloride	2.059	84	11357	1.975	ppbv	93
21) Allyl Chloride	2.094	41	22565	2.064	ppbv	96
22) trans-1,2-Dichloroethene	2.337	96	14573	2.193	ppbv	81
23) Vinyl Acetate	2.460	43	34320	1.985	ppbv #	97
24) 1,1-Dichloroethane	2.405	63	27421	2.132	ppbv	99
25) Ethyl Acetate	2.836	43	61595	2.124	ppbv	100
26) Hexane	2.823	57	23715	1.992	ppbv	86
27) Carbon Disulfide	2.146	76	31735	2.065	ppbv #	94
28) Methyl tert-Butyl Ether	2.438	73	13425	2.030	ppbv	94
29) Chloroform	2.845	83	51800	2.098	ppbv	97
30) Cyclohexane	3.855	84	18925	1.936	ppbv	94
31) cis-1,2-Dichloroethene	2.719	61	26277	1.955	ppbv	88
32) 1,1,1-Trichloroethane	3.363	97	50640	2.033	ppbv	98
34) 2-Butanone	2.557	43	39851	2.011	ppbv	98
35) Carbon Tetrachloride	3.761	117	54873	2.030	ppbv	89
36) Benzene	3.651	78	52942	1.987	ppbv	99
37) 1,2-Dichloroethane	3.214	62	39974	2.103	ppbv	100
38) Trichloroethene	4.541	130	23078m	2.027	ppbv	
39) 1,2-Dichloropropane	4.312	63	19038	1.920	ppbv	92
40) 1,4-Dioxane	4.590	88	7446m	1.883	ppbv	
41) Tetrahydrofuran	3.059	42	17163m	2.008	ppbv	
42) Bromodichloromethane	4.490	83	52451	2.072	ppbv	92
43) Methyl Methacrylate	4.878	69	17050m	1.916	ppbv	
44) 2,2,4-Trimethylpentane	4.638	57	86512m	2.068	ppbv	
45) t-1,3-Dichloropropene	6.412	75	20334m	1.790	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051225\
 Data File : VL042532.D
 Acq On : 12 May 2025 12:58
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025

Quant Time: May 12 23:50:30 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M

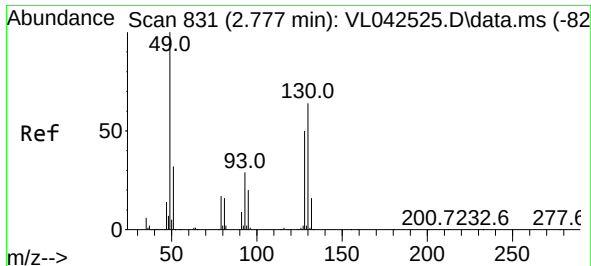
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Mon May 12 23:42:45 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.600	75	25085m	1.831	ppbv	
47) 1,1,2-Trichloroethane	6.584	97	23580m	2.019	ppbv	
48) Dibromochloromethane	7.383	129	40163	2.058	ppbv	99
49) Bromoform	9.480	173	32916	2.056	ppbv	98
50) 4-Methyl-2-Pentanone	5.752	43	46331	1.994	ppbv	96
51) 2-Hexanone	7.438	43	33088	1.916	ppbv #	96
52) Tetrachloroethene	8.221	164	19118	1.863	ppbv	94
53) Toluene	6.930	91	49216	1.882	ppbv	96
54) 1,2-Dibromoethane	7.648	107	33420	1.958	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.924	131	33013	2.119	ppbv	94
57) Chlorobenzene	8.917	112	54172	2.147	ppbv	92
58) Ethyl Benzene	9.351	91	66256	1.934	ppbv	91
59) m/p-Xylene	9.545	91	133205m	4.372	ppbv	
60) o-Xylene	9.963	91	64958	2.188	ppbv	99
61) Styrene	9.869	104	19713m	1.802	ppbv	
62) Isopropylbenzene	10.539	105	96054	2.147	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.959	83	49909	2.096	ppbv	98
64) n-propylbenzene	10.989	120	25286	2.230	ppbv	93
65) tert-Butylbenzene	11.529	119	93604	2.278	ppbv	97
66) Benzyl Chloride	11.613	91	11357m	2.089	ppbv	
67) sec-Butylbenzene	11.765	105	136432	2.316	ppbv	100
69) p-Isopropyltoluene	11.924	119	112913	2.332	ppbv	98
70) n-Butylbenzene	12.280	91	112776	2.357	ppbv	96
71) 2-Chlorotoluene	10.898	91	68153	2.012	ppbv	97
72) 4-Ethyltoluene	11.125	105	79670	2.162	ppbv	96
73) 1,3,5-Trimethylbenzene	11.202	105	71983	2.242	ppbv	99
74) 1,2,4-Trimethylbenzene	11.536	105	96474	2.443	ppbv	94
75) 1,3-Dichlorobenzene	11.604	146	54948	2.221	ppbv	98
76) 1,4-Dichlorobenzene	11.672	146	53480	2.272	ppbv	97
77) 1,2-Dichlorobenzene	11.947	146	59194	2.317	ppbv	98
78) Hexachloro-1,3-Butadiene	13.879	225	49456	2.258	ppbv	97
79) Naphthalene	13.513	128	69902	2.564	ppbv	99
80) Naphthalene,2-methyl-	14.458	142	29203	1.841	ppbv	95
81) 1,2,4-Trichlorobenzene	13.439	180	37757	2.268	ppbv	98

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



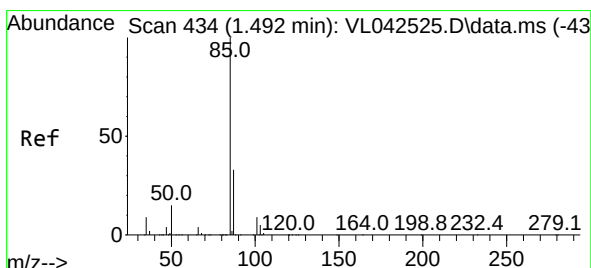
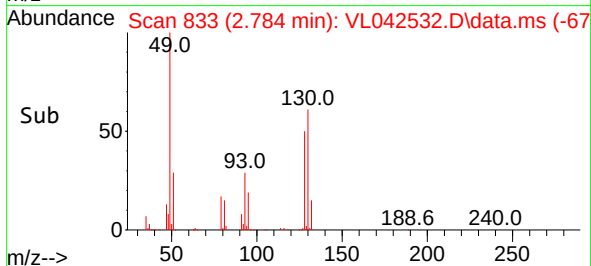
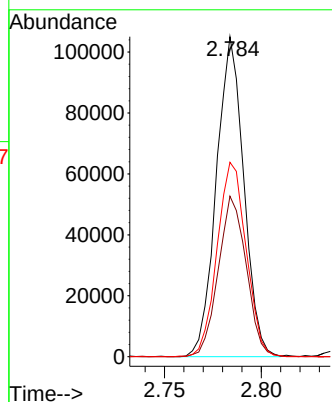
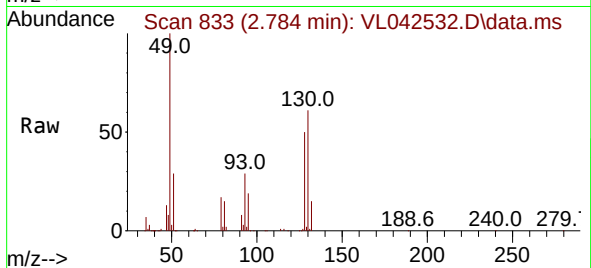
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 811
Delta R.T. 0.007 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion: 49 Resp: 10334
Ion Ratio Lower Upper
49 100
128 51.0 24.9 74.6
130 64.2 32.5 97.5

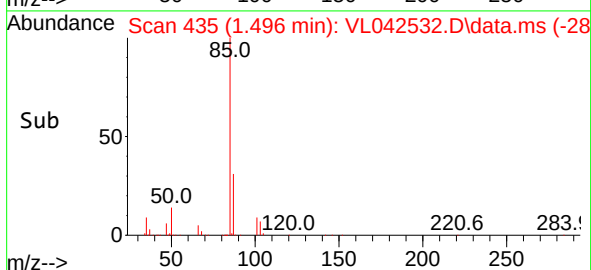
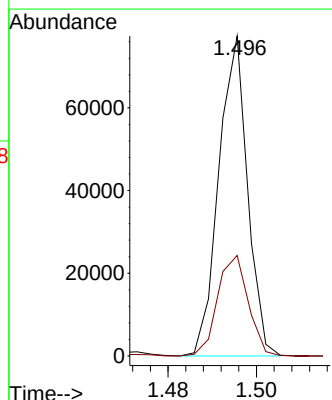
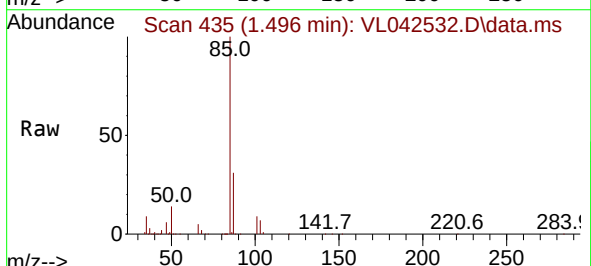
Manual Integrations
APPROVED

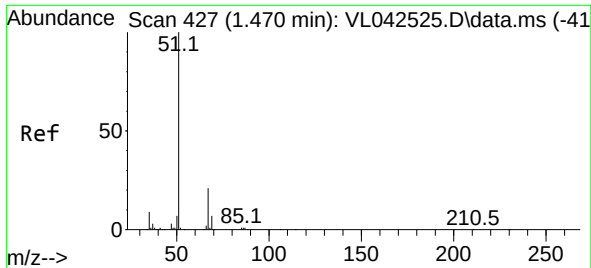
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#2
Dichlorodifluoromethane
Concen: 2.080 ppbv
RT: 1.496 min Scan# 435
Delta R.T. 0.003 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

Tgt Ion: 85 Resp: 34904
Ion Ratio Lower Upper
85 100
87 31.4 26.8 40.2





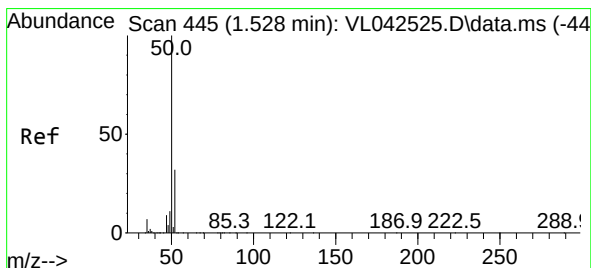
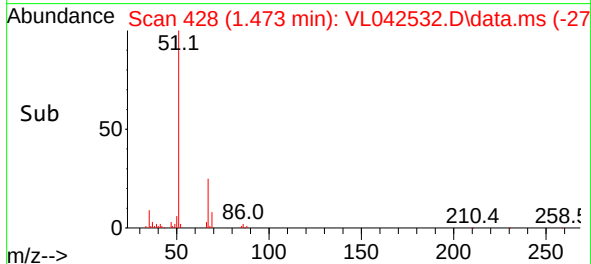
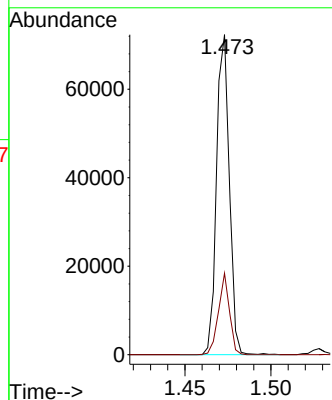
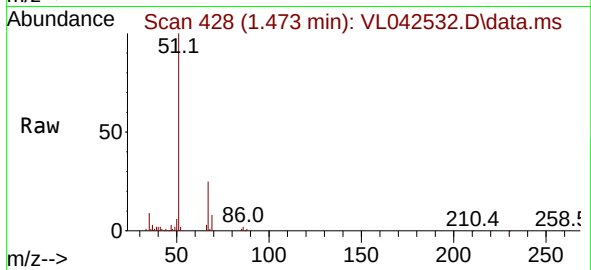
#3
Chlorodifluoromethane
Concen: 2.175 ppbv
RT: 1.473 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion: 51 Resp: 3720
Ion Ratio Lower Upper
51 100
67 22.0 17.4 26.0

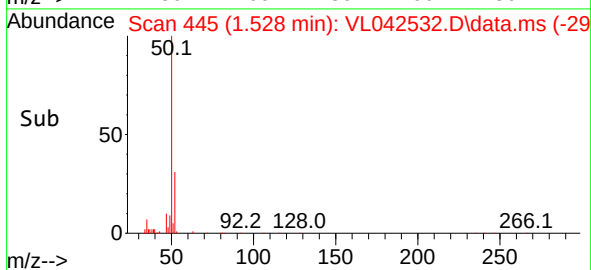
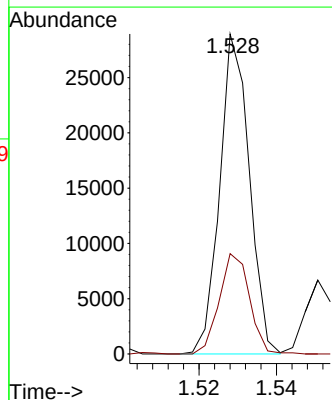
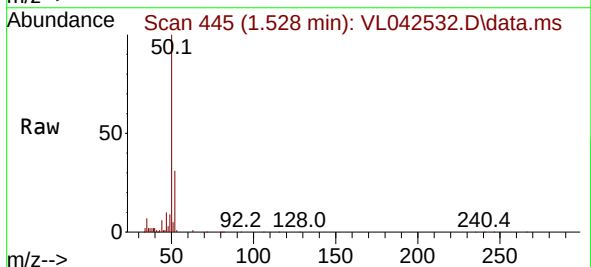
Manual Integrations
APPROVED

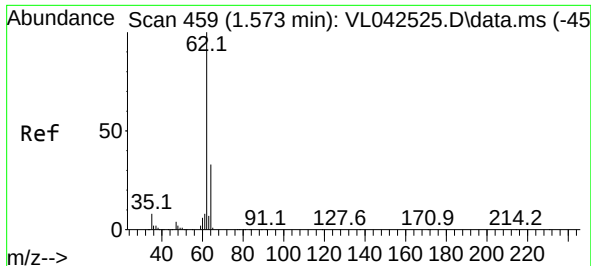
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#4
Chloromethane
Concen: 2.242 ppbv
RT: 1.528 min Scan# 445
Delta R.T. -0.000 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

Tgt Ion: 50 Resp: 15355
Ion Ratio Lower Upper
50 100
52 31.3 25.9 38.9





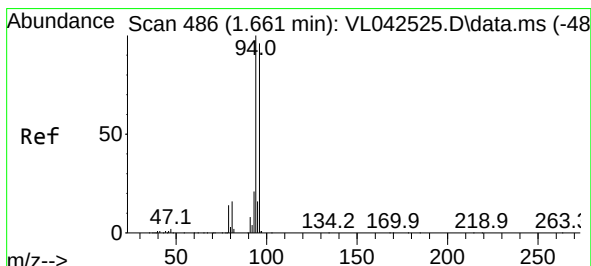
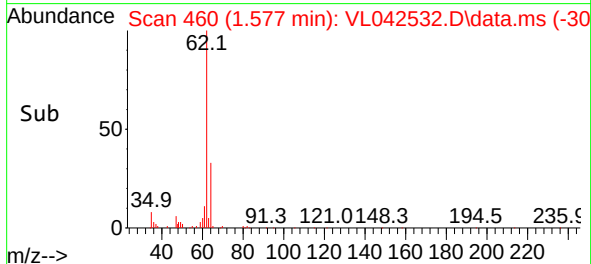
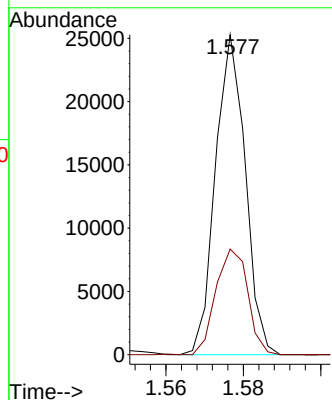
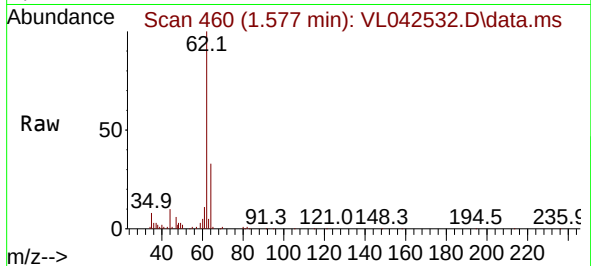
#5
 Vinyl Chloride
 Concen: 1.930 ppbv
 RT: 1.577 min Scan# 459
 Delta R.T. 0.003 min
 Lab File: VL042532.D
 Acq: 12 May 2025 12:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tgt Ion: 62 Resp: 1352
 Ion Ratio Lower Upper
 62 100
 64 33.0 26.5 39.7

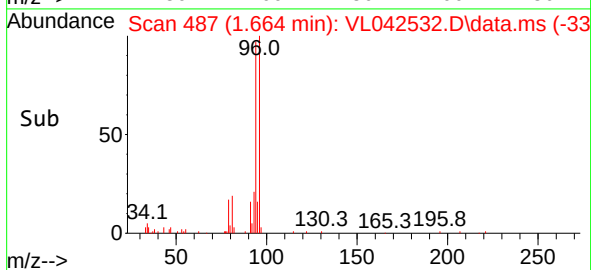
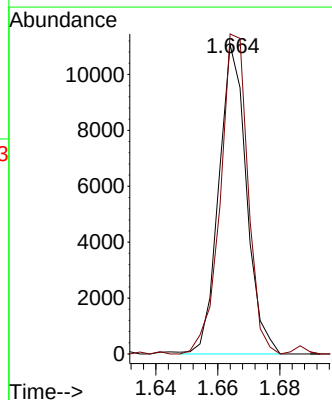
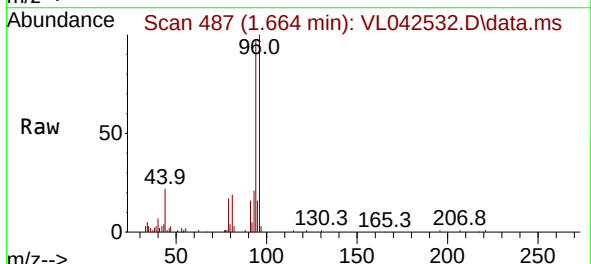
Manual Integrations
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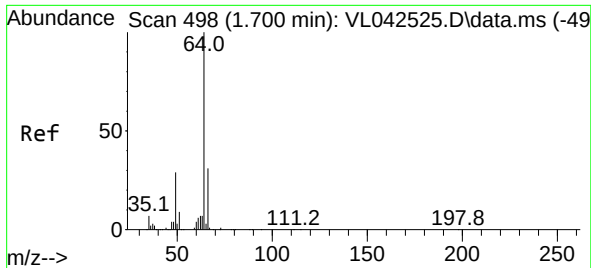
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025



#6
 Bromomethane
 Concen: 2.068 ppbv
 RT: 1.664 min Scan# 487
 Delta R.T. 0.003 min
 Lab File: VL042532.D
 Acq: 12 May 2025 12:58

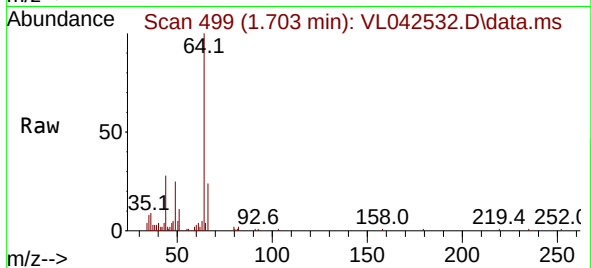
Tgt Ion: 94 Resp: 6881
 Ion Ratio Lower Upper
 94 100
 96 103.4 76.9 115.3





#7
Chloroethane
Concen: 2.251 ppbv m
RT: 1.703 min Scan# 498
Delta R.T. 0.003 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

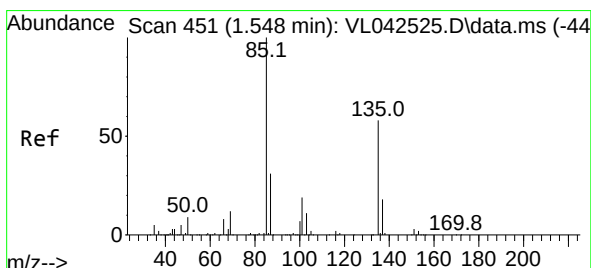
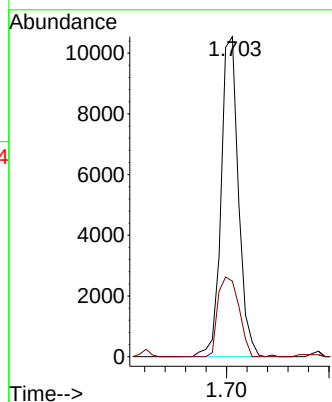
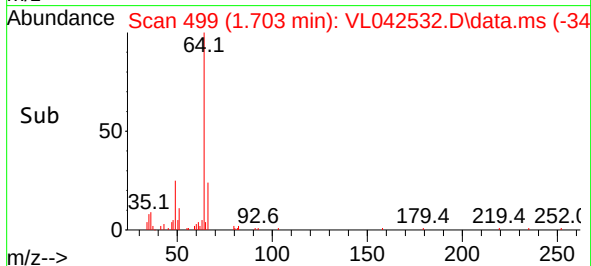
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



Tgt Ion: 64 Resp: 6208
Ion Ratio Lower Upper
64 100
66 23.6 25.1 37.7

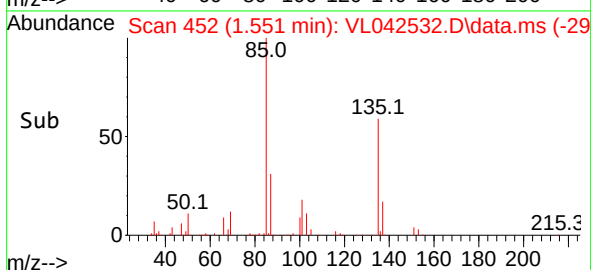
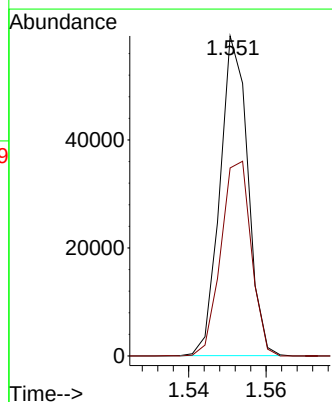
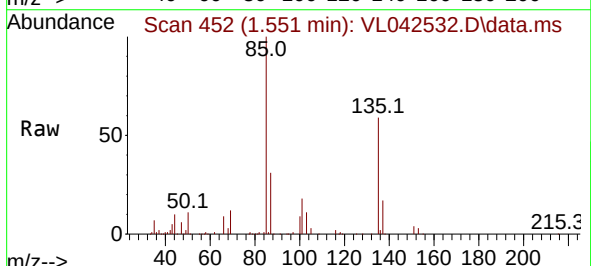
Manual Integrations
APPROVED

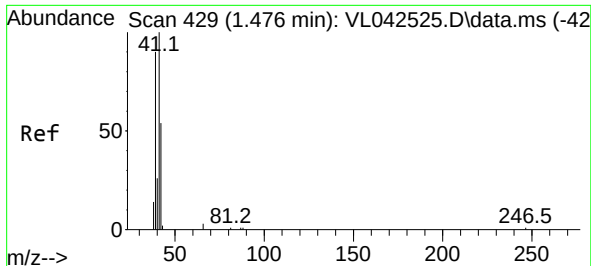
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#8
Dichlorotetrafluoroethane
Concen: 2.054 ppbv
RT: 1.551 min Scan# 452
Delta R.T. 0.003 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

Tgt Ion: 85 Resp: 29662
Ion Ratio Lower Upper
85 100
135 66.6 51.8 77.8





#9

Propene

Concen: 0.923 ppbv

RT: 1.479 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

Instrument :

MSVOA_L

ClientSampleId :

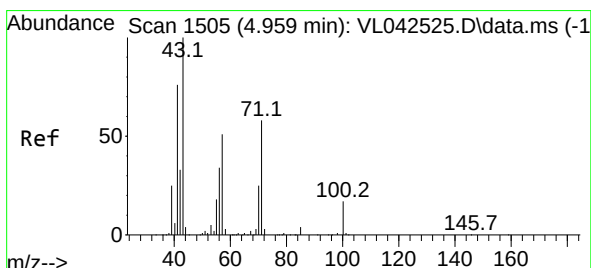
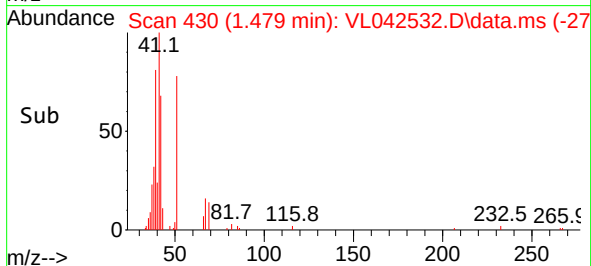
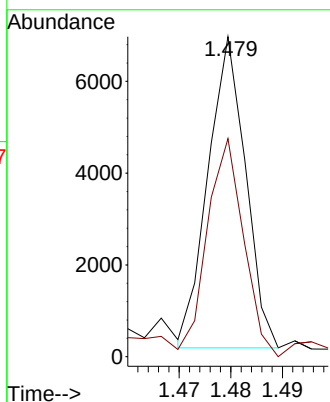
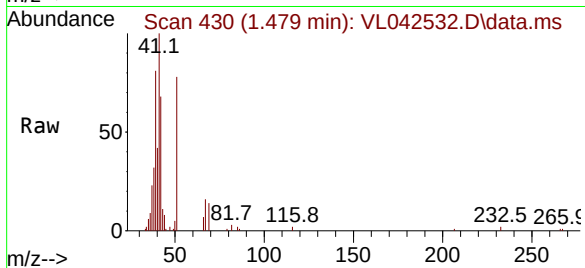
VSTDICC002

Tgt Ion: 41 Resp: 3429
 Ion Ratio Lower Upper
 41 100
 42 86.6 4.1 6.1

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025



#10

Heptane

Concen: 1.991 ppbv

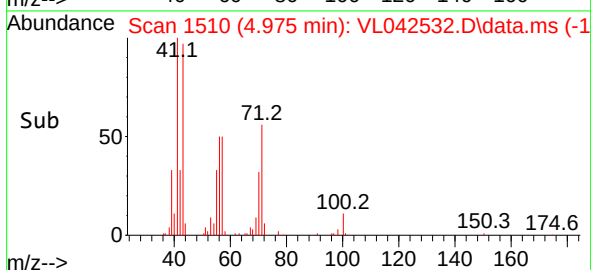
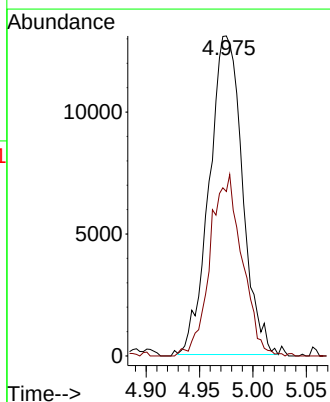
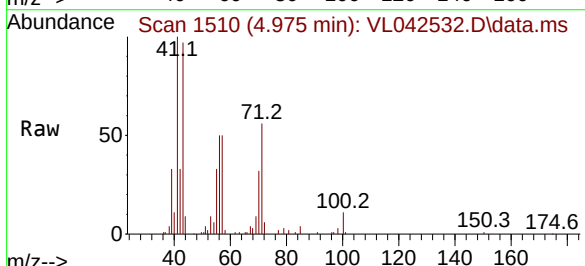
RT: 4.975 min Scan# 1510

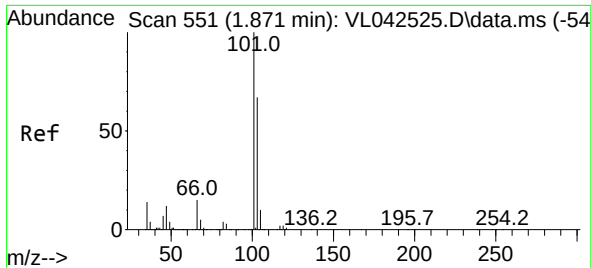
Delta R.T. 0.016 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

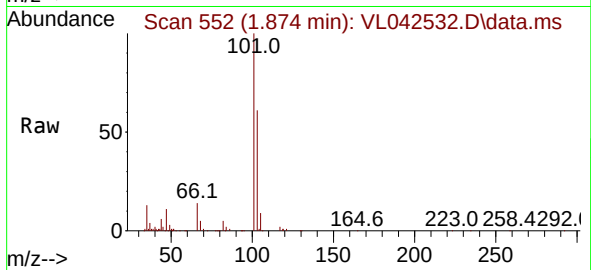
Tgt Ion: 43 Resp: 28195
 Ion Ratio Lower Upper
 43 100
 57 55.0 42.1 63.1





#11
 Trichlorofluoromethane
 Concen: 2.161 ppbv
 RT: 1.874 min Scan# 551
 Delta R.T. 0.003 min
 Lab File: VL042532.D
 Acq: 12 May 2025 12:58

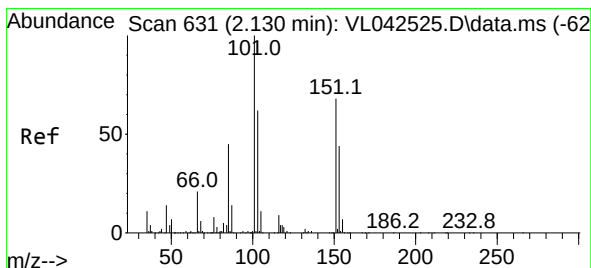
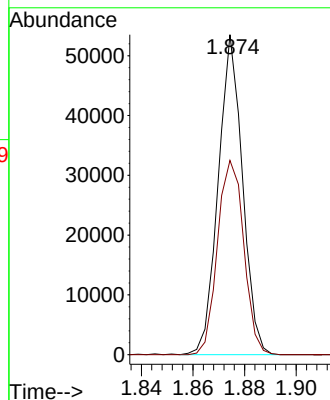
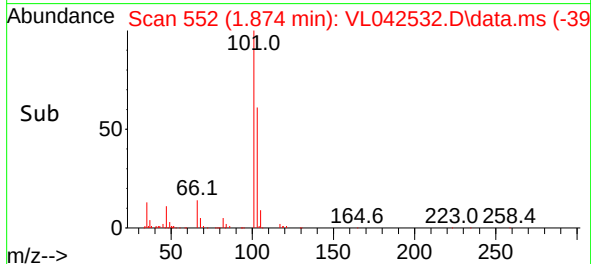
Instrument : MSVOA_L
 ClientSampleId : VSTDIC002



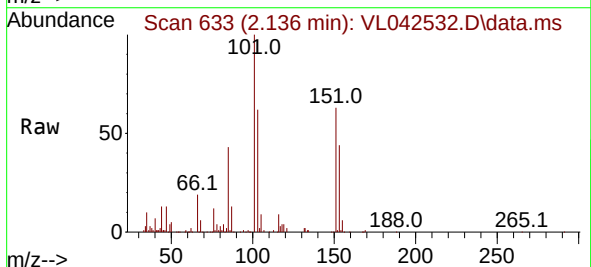
Tgt Ion:101 Resp: 34879
 Ion Ratio Lower Upper
 101 100
 103 60.7 53.8 80.6

Manual Integrations
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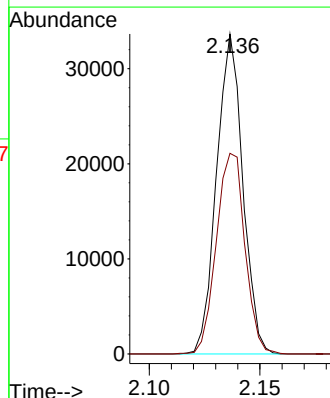
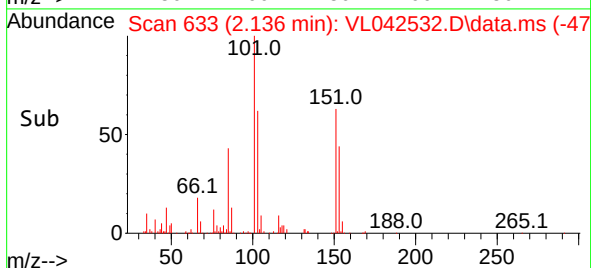
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025

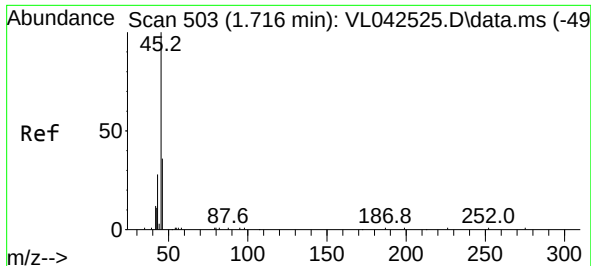


#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 2.141 ppbv
 RT: 2.136 min Scan# 633
 Delta R.T. 0.006 min
 Lab File: VL042532.D
 Acq: 12 May 2025 12:58



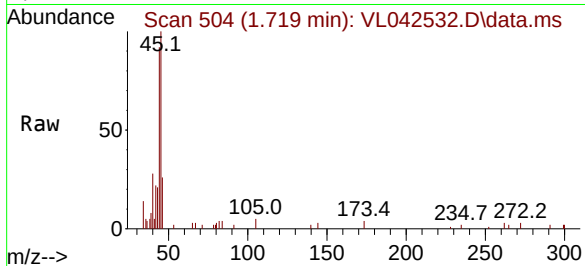
Tgt Ion:101 Resp: 27757
 Ion Ratio Lower Upper
 101 100
 151 68.4 57.8 86.8





#13
Ethanol
Concen: 1.956 ppbv
RT: 1.719 min Scan# 503
Delta R.T. 0.003 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

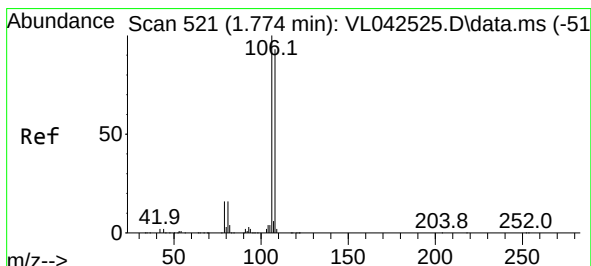
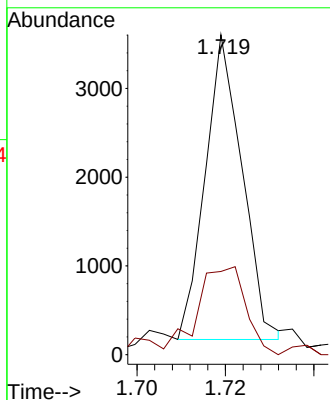
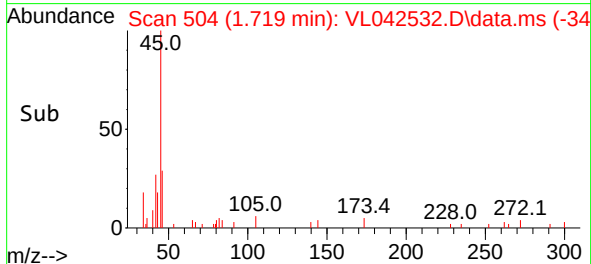
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



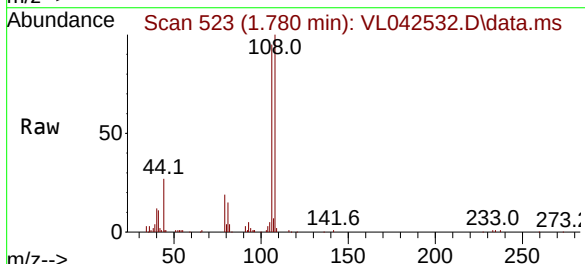
Tgt Ion: 45 Resp: 1983
Ion Ratio Lower Upper
45 100
46 43.7 14.8 59.4

Manual Integrations
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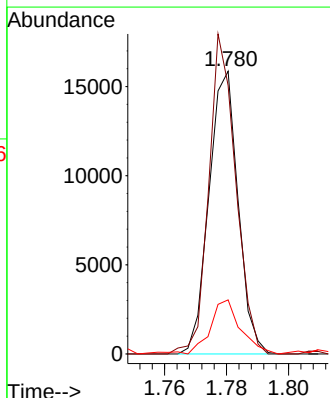
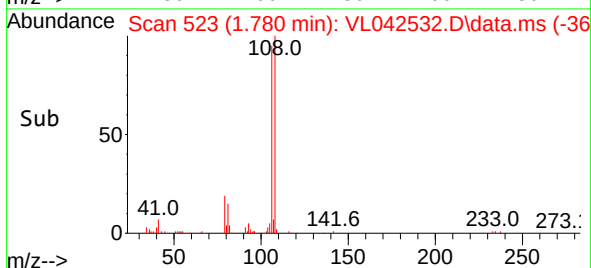
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

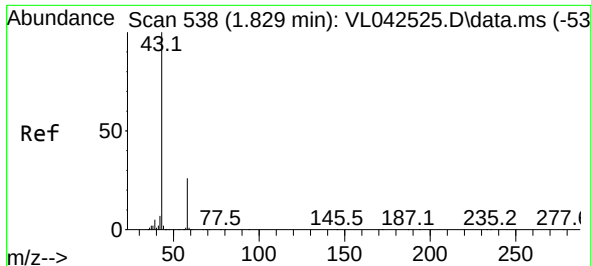


#14
Bromoethene
Concen: 2.192 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.006 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58



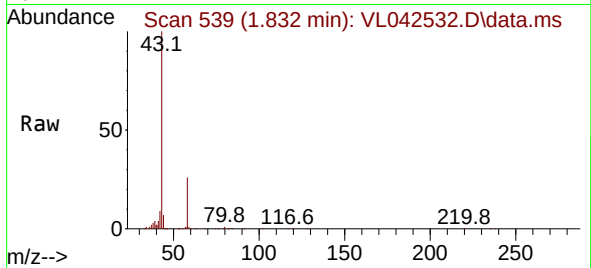
Tgt Ion:108 Resp: 10359
Ion Ratio Lower Upper
108 100
106 104.9 87.4 131.2
79 22.4 15.1 22.7





#15
Acetone
Concen: 2.269 ppbv
RT: 1.832 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

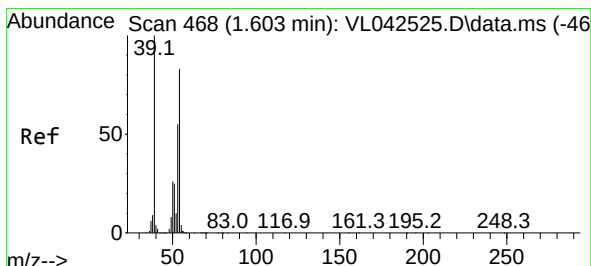
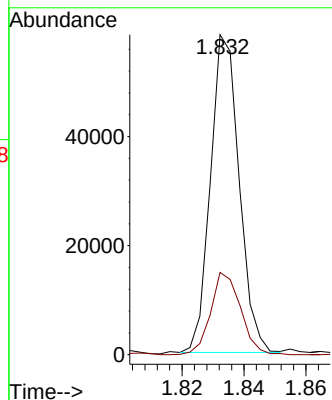
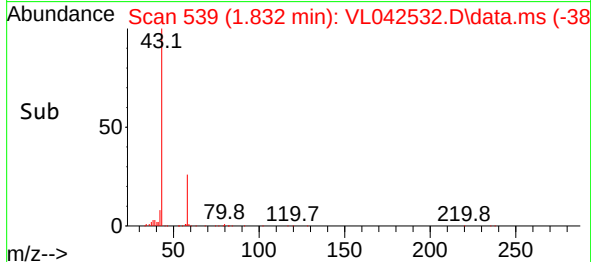
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



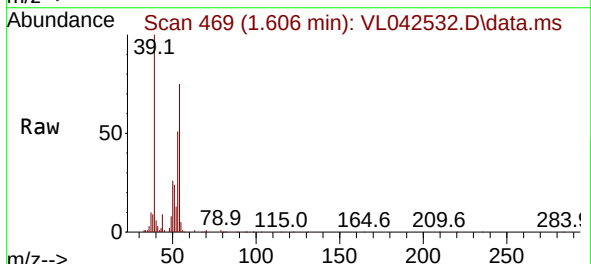
Tgt Ion: 43 Resp: 3746
Ion Ratio Lower Upper
43 100
58 27.4 21.3 31.9

Manual Integrations
APPROVED

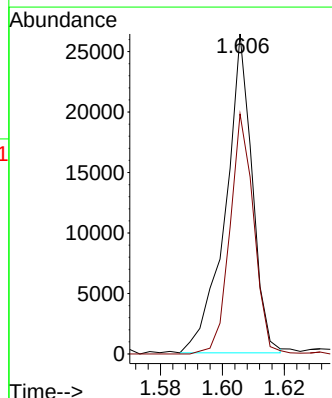
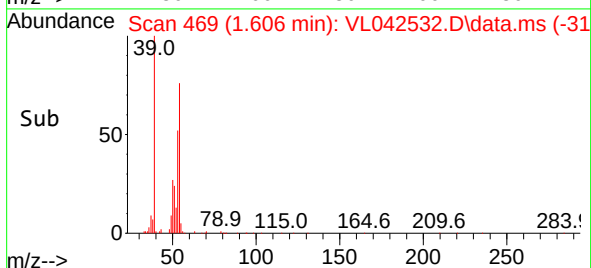
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

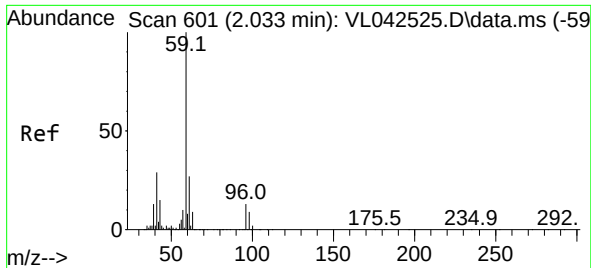


#16
1,3-Butadiene
Concen: 2.132 ppbv
RT: 1.606 min Scan# 469
Delta R.T. 0.003 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58



Tgt Ion: 39 Resp: 15833
Ion Ratio Lower Upper
39 100
54 67.6 57.8 86.6





#17

tert-Butyl alcohol

Concen: 2.026 ppbv

RT: 2.039 min Scan# 601

Delta R.T. 0.006 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

Tgt Ion: 59 Resp: 3091

Ion Ratio Lower Upper

59 100

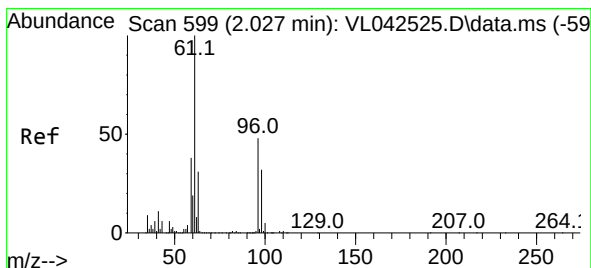
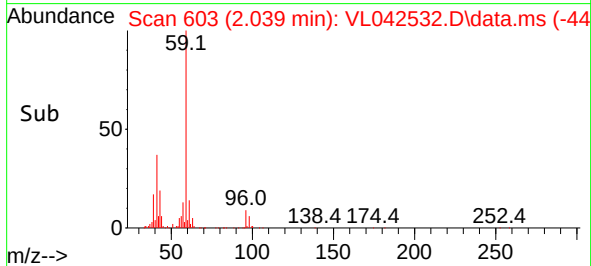
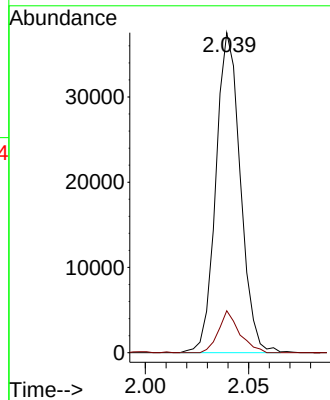
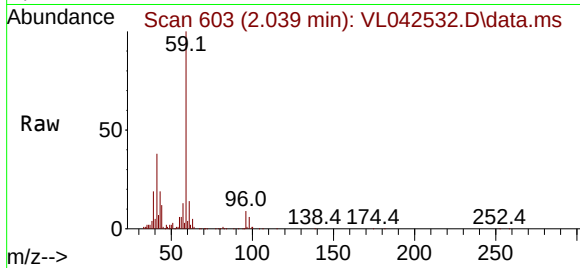
57 11.2 8.2 12.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025

Supervised By :Mahesh Dadoda 05/14/2025



#18

1,1-Dichloroethene

Concen: 2.073 ppbv

RT: 2.033 min Scan# 601

Delta R.T. 0.006 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

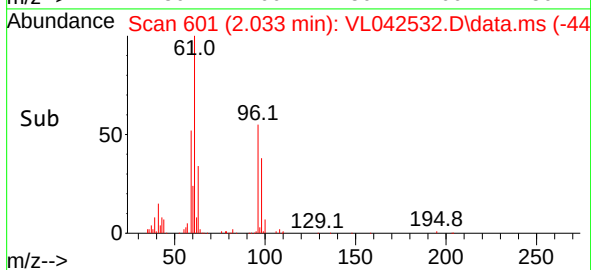
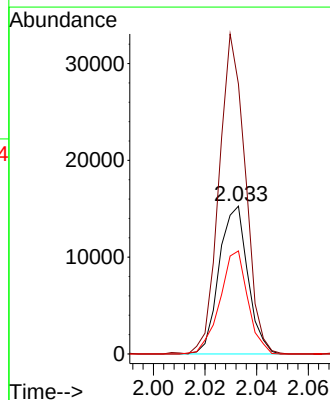
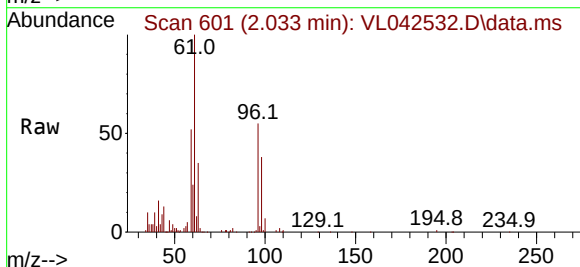
Tgt Ion: 96 Resp: 11781

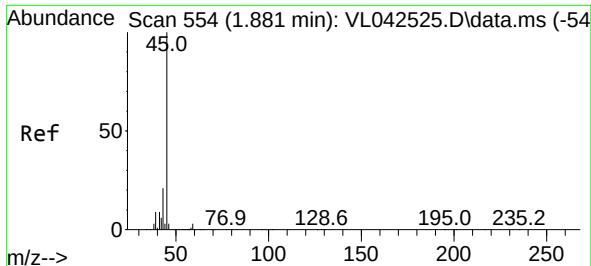
Ion Ratio Lower Upper

96 100

61 182.0 165.0 247.4

98 69.7 52.6 79.0





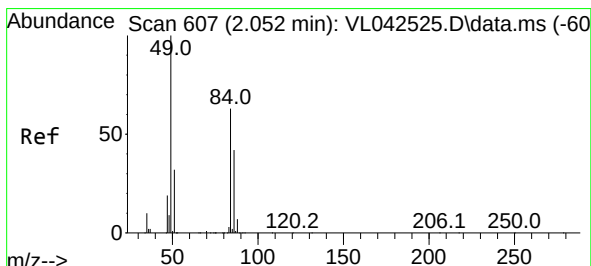
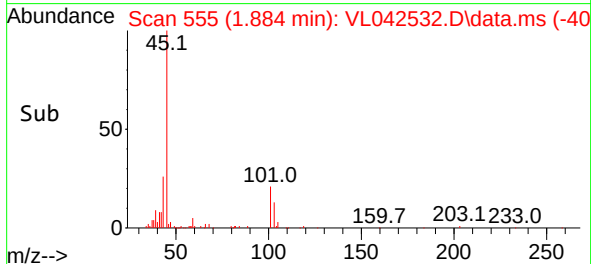
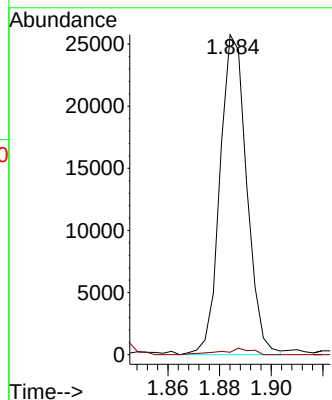
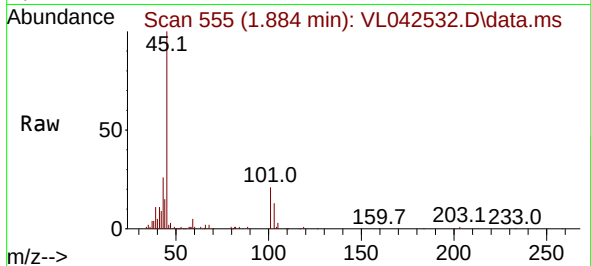
#19
Isopropyl Alcohol
Concen: 2.062 ppbv
RT: 1.884 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion: 45 Resp: 1850
Ion Ratio Lower Upper
45 100
58 0.0 1.5 2.3

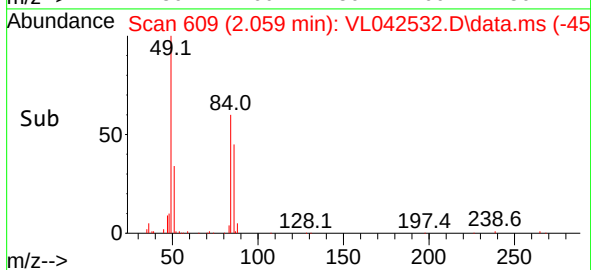
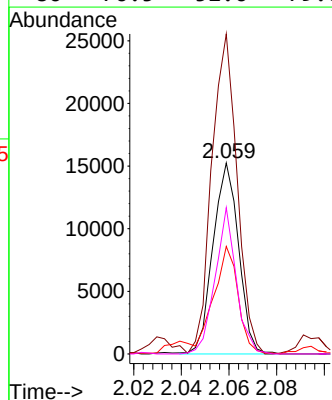
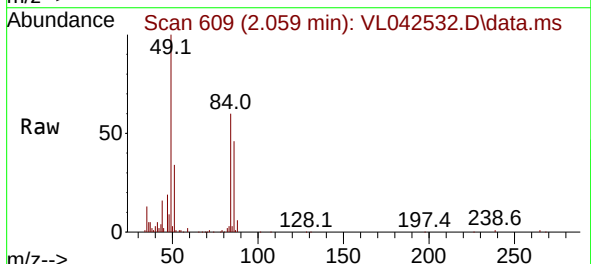
Manual Integrations
APPROVED

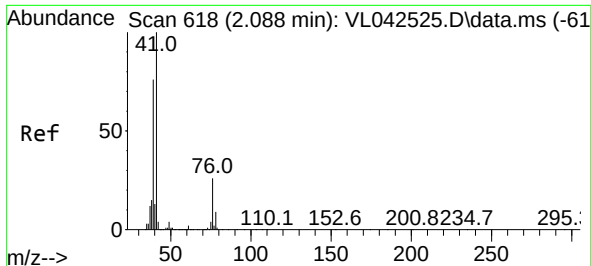
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#20
Methylene Chloride
Concen: 1.975 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.006 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

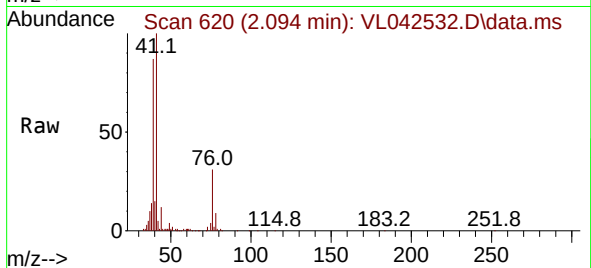
Tgt Ion: 84 Resp: 11357
Ion Ratio Lower Upper
84 100
49 167.0 128.2 192.4
51 56.3 41.7 62.5
86 76.5 52.6 79.0





#21
 Allyl Chloride
 Concen: 2.064 ppbv
 RT: 2.094 min Scan# 618
 Delta R.T. 0.006 min
 Lab File: VL042532.D
 Acq: 12 May 2025 12:58

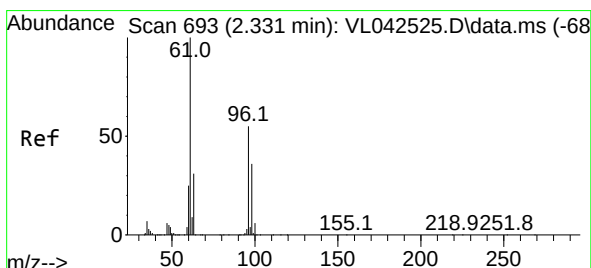
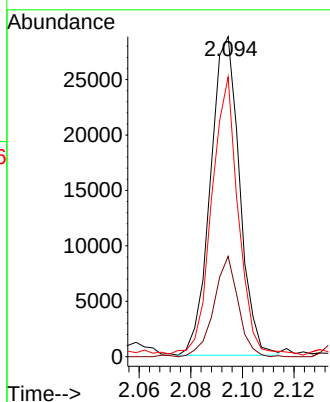
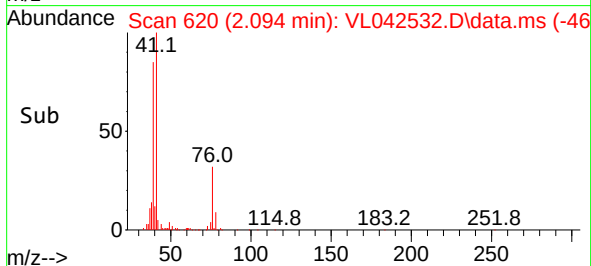
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002



Tgt Ion: 41 Resp: 2256
 Ion Ratio Lower Upper
 41 100
 76 26.5 22.0 33.0
 39 78.9 59.5 89.3

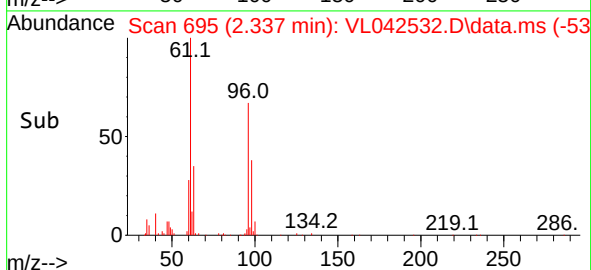
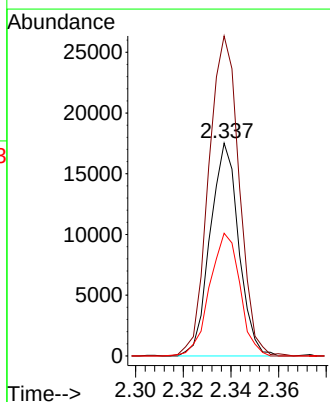
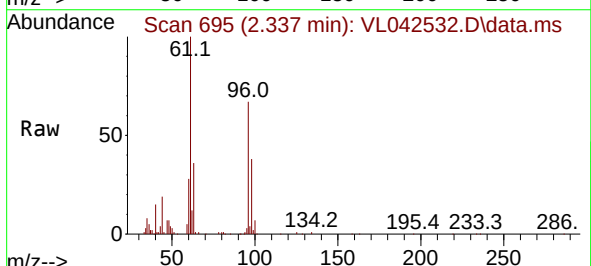
Manual Integrations
 APPROVED

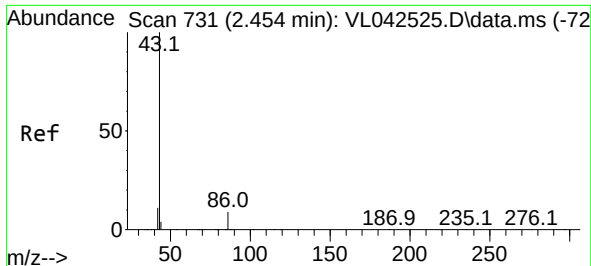
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025



#22
 trans-1,2-Dichloroethene
 Concen: 2.193 ppbv
 RT: 2.337 min Scan# 695
 Delta R.T. 0.006 min
 Lab File: VL042532.D
 Acq: 12 May 2025 12:58

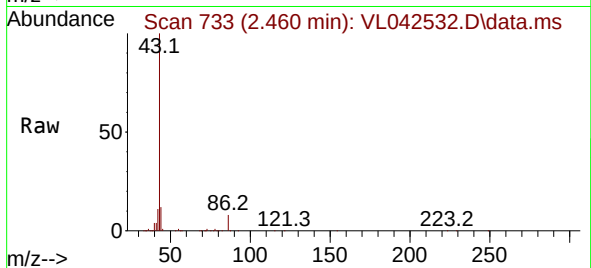
Tgt Ion: 96 Resp: 14573
 Ion Ratio Lower Upper
 96 100
 61 149.6 145.9 218.9
 98 57.7 52.2 78.4





#23
 Vinyl Acetate
 Concen: 1.985 ppbv
 RT: 2.460 min Scan# 716
 Delta R.T. 0.006 min
 Lab File: VL042532.D
 Acq: 12 May 2025 12:58

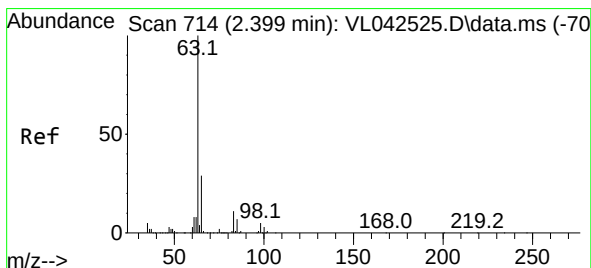
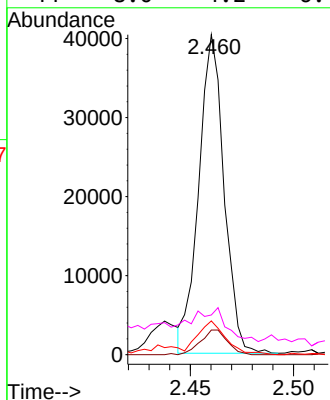
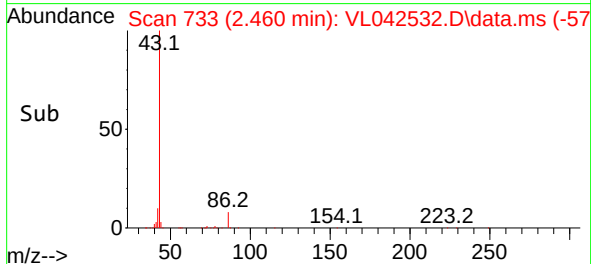
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002



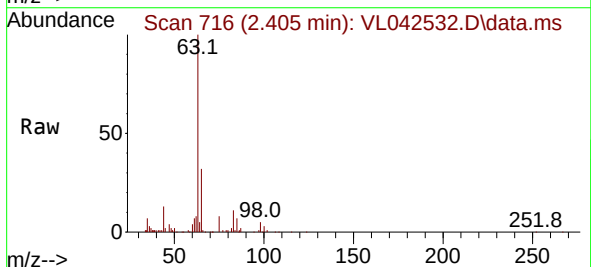
Tgt Ion: 43 Resp: 34320
 Ion Ratio Lower Upper
 43 100
 86 7.7 6.8 10.2
 42 10.6 8.8 13.2
 44 8.0 4.2 6.4#

Manual Integrations
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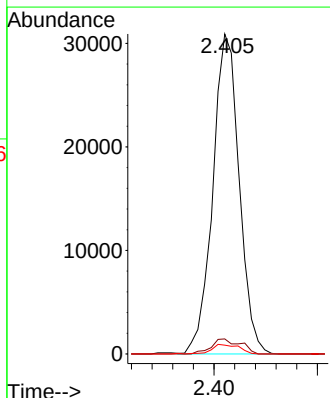
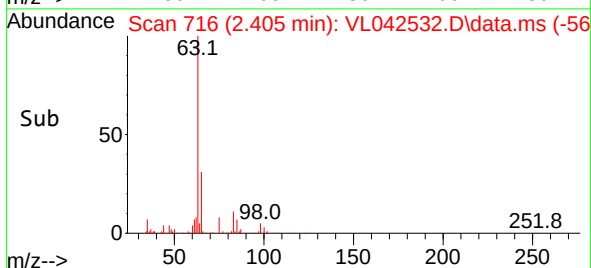
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025

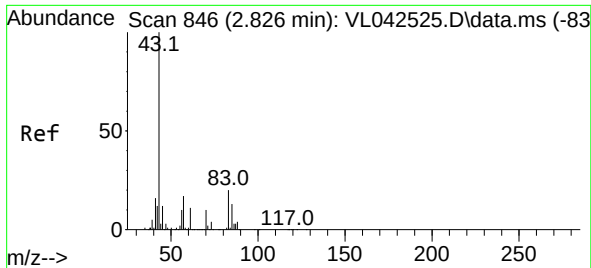


#24
 1,1-Dichloroethane
 Concen: 2.132 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. 0.006 min
 Lab File: VL042532.D
 Acq: 12 May 2025 12:58



Tgt Ion: 63 Resp: 27421
 Ion Ratio Lower Upper
 63 100
 98 4.7 2.6 8.0
 100 2.8 1.4 4.2





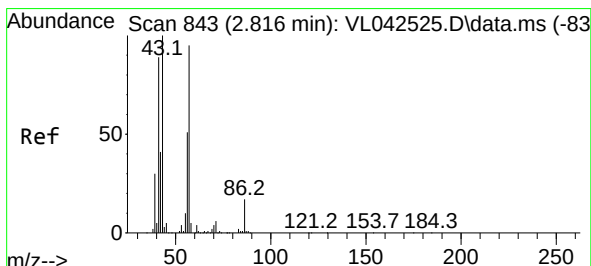
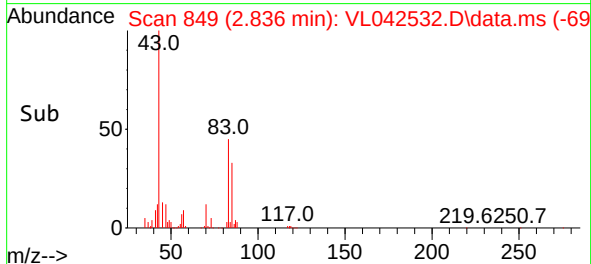
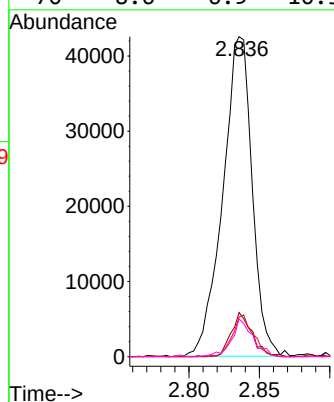
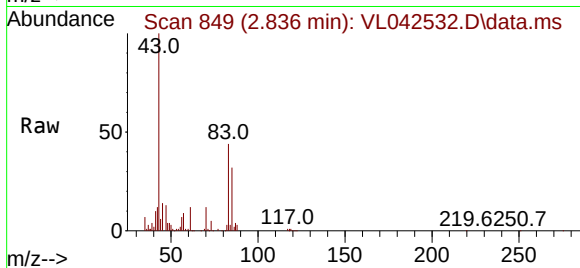
#25
Ethyl Acetate
Concen: 2.124 ppbv
RT: 2.836 min Scan# 846
Delta R.T. 0.010 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 43	Resp: 6159
Ion Ratio	Lower Upper
43 100	
45 10.0	7.9 11.9
61 9.3	7.1 10.7
70 8.6	6.9 10.3

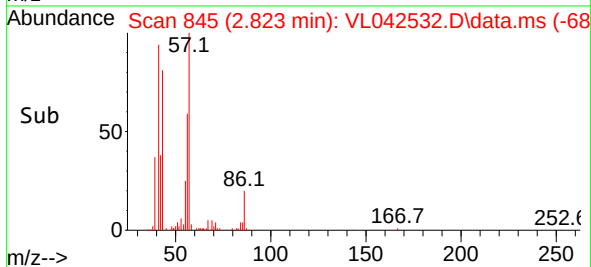
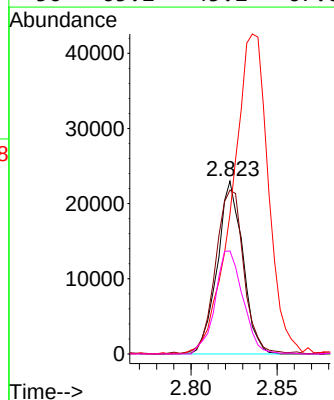
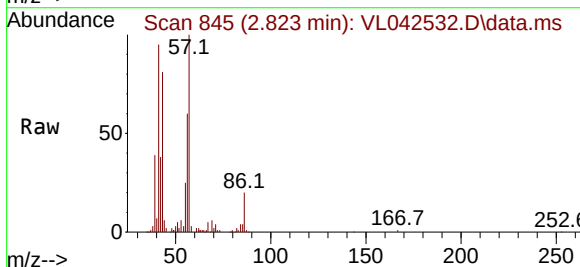
Manual Integrations
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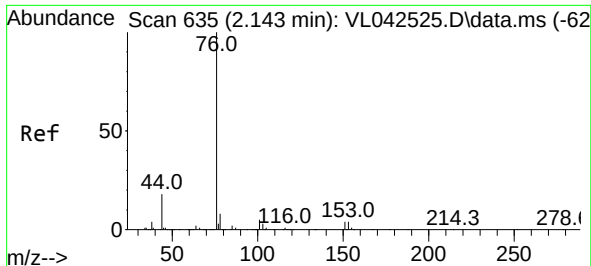
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#26
Hexane
Concen: 1.992 ppbv
RT: 2.823 min Scan# 845
Delta R.T. 0.006 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

Tgt Ion: 57	Resp: 23715
Ion Ratio	Lower Upper
57 100	
41 106.9	76.1 114.1
43 262.3	188.9 283.3
56 65.2	45.2 67.8





#27

Carbon Disulfide

Concen: 2.065 ppbv

RT: 2.146 min Scan# 61

Delta R.T. 0.003 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

Instrument :

MSVOA_L

ClientSampleId :

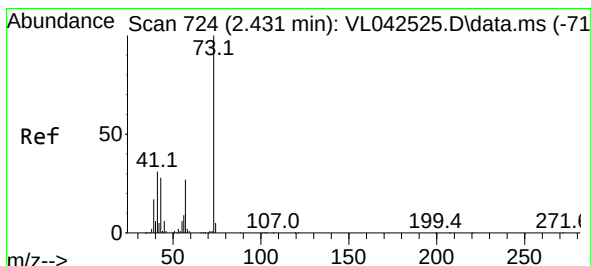
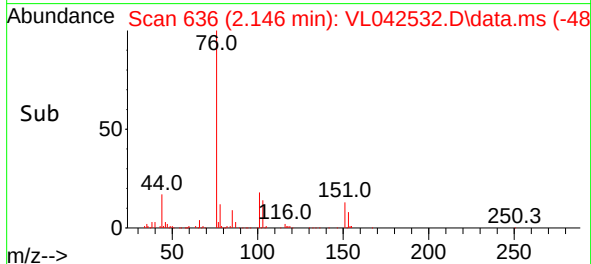
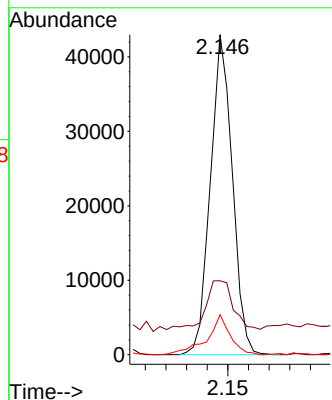
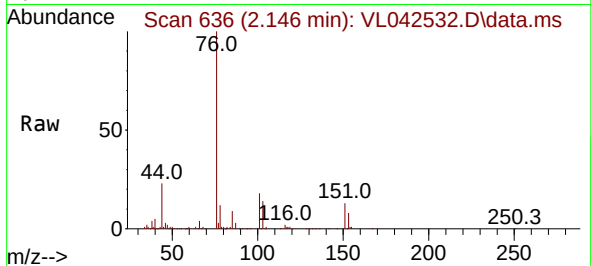
VSTDICC002

Tgt Ion: 76	Resp: 3173
Ion Ratio	Lower Upper
76 100	
44 23.9	17.1 25.7
78 13.7	8.6 12.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#28

Methyl tert-Butyl Ether

Concen: 2.030 ppbv

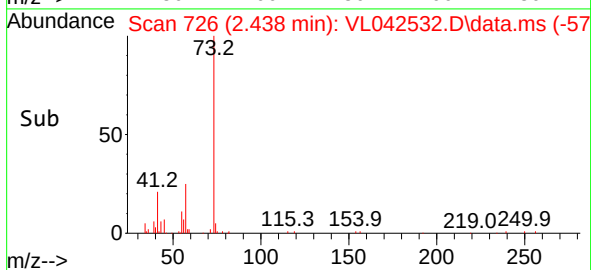
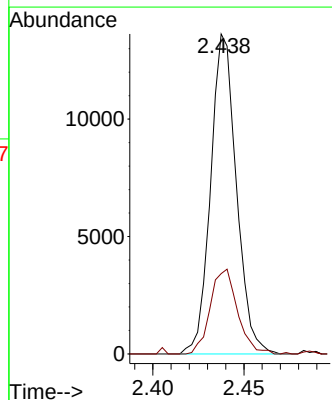
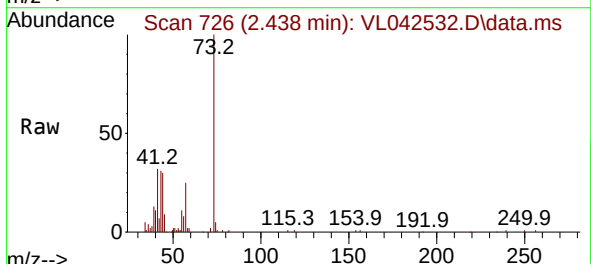
RT: 2.438 min Scan# 726

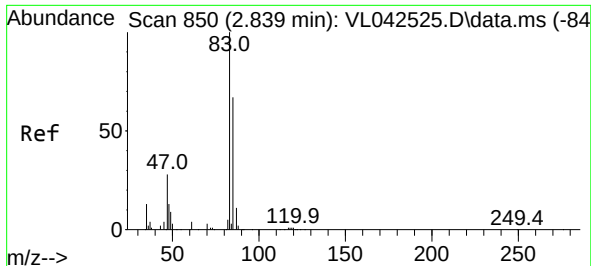
Delta R.T. 0.006 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

Tgt Ion: 73	Resp: 13425
Ion Ratio	Lower Upper
73 100	
57 28.4	20.3 30.5





#29

Chloroform

Concen: 2.098 ppbv

RT: 2.845 min Scan# 81

Delta R.T. 0.006 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

Tgt Ion: 83 Resp: 51800

Ion Ratio Lower Upper

83 100

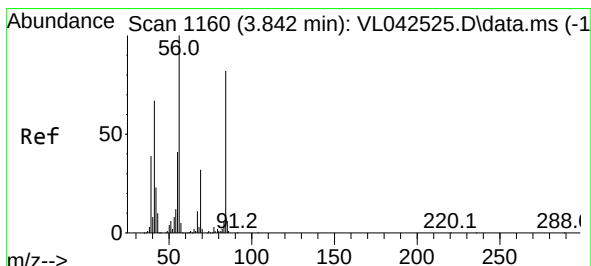
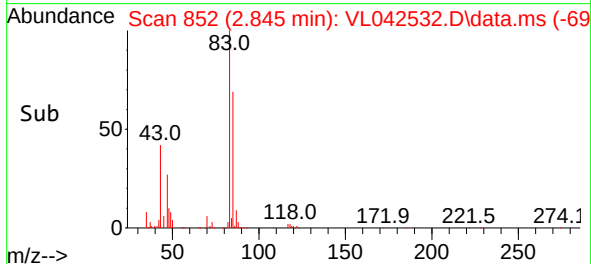
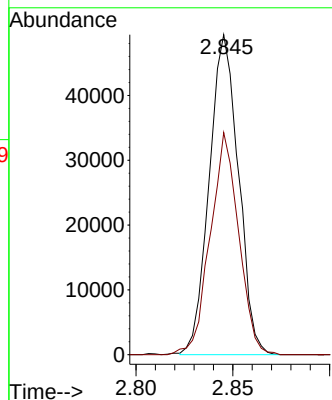
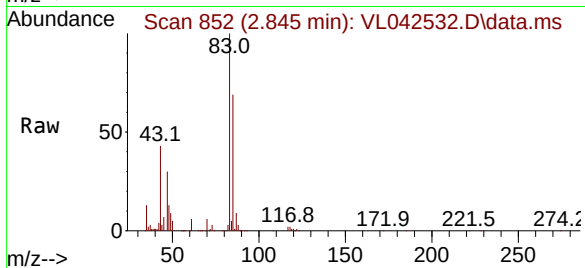
85 69.4 53.5 80.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025

Supervised By :Mahesh Dadoda 05/14/2025



#30

Cyclohexane

Concen: 1.936 ppbv

RT: 3.855 min Scan# 1164

Delta R.T. 0.013 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

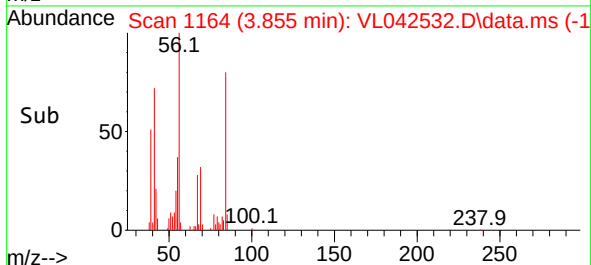
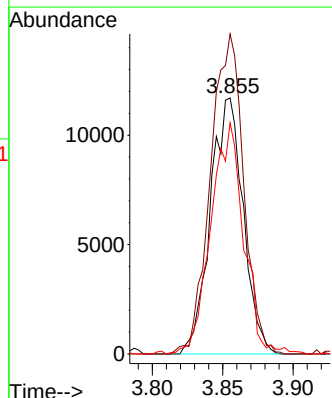
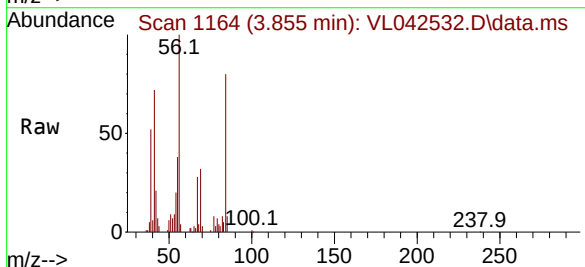
Tgt Ion: 84 Resp: 18925

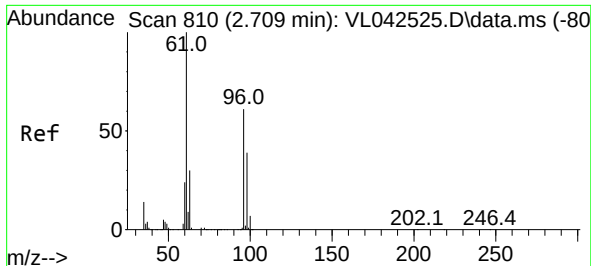
Ion Ratio Lower Upper

84 100

56 126.4 97.1 145.7

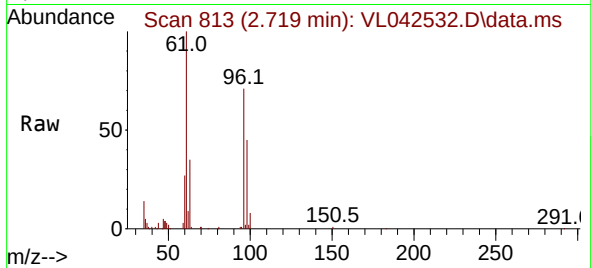
41 90.7 66.6 99.8





#31
 cis-1,2-Dichloroethene
 Concen: 1.955 ppbv
 RT: 2.719 min Scan# 810
 Delta R.T. 0.010 min
 Lab File: VL042532.D
 Acq: 12 May 2025 12:58

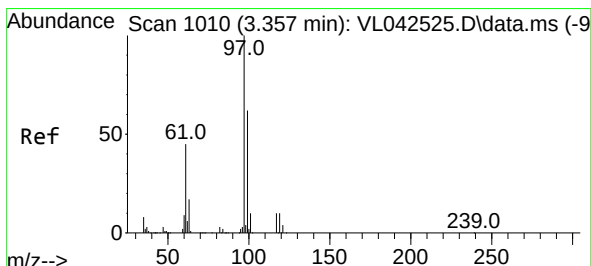
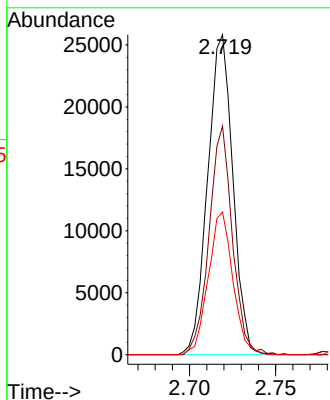
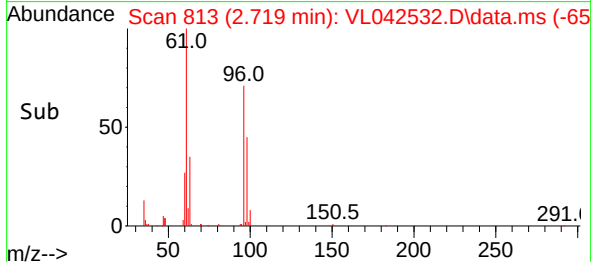
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002



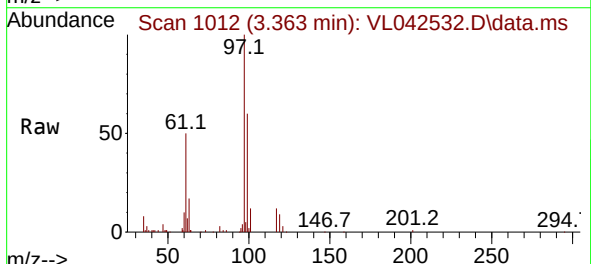
Tgt Ion: 61 Resp: 2627
 Ion Ratio Lower Upper
 61 100
 96 71.4 48.9 73.3
 98 44.5 31.4 47.2

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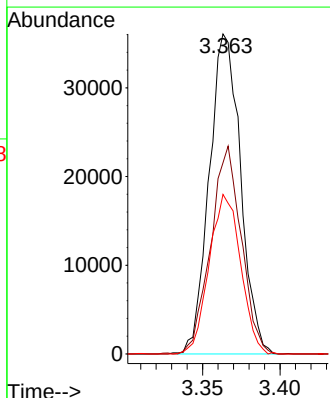
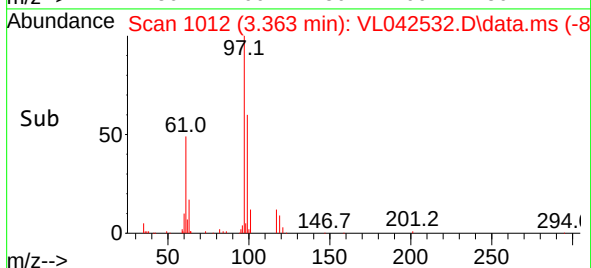
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025

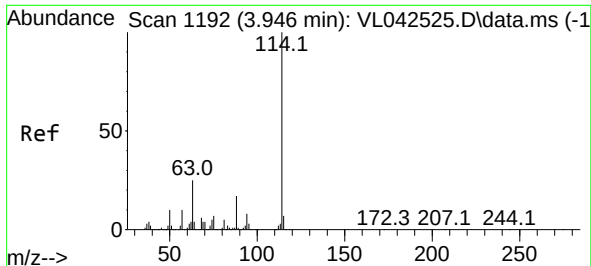


#32
 1,1,1-Trichloroethane
 Concen: 2.033 ppbv
 RT: 3.363 min Scan# 1012
 Delta R.T. 0.006 min
 Lab File: VL042532.D
 Acq: 12 May 2025 12:58



Tgt Ion: 97 Resp: 50640
 Ion Ratio Lower Upper
 97 100
 99 63.6 50.1 75.1
 61 50.3 38.2 57.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. 0.010 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

Instrument :

MSVOA_L

ClientSampleId :

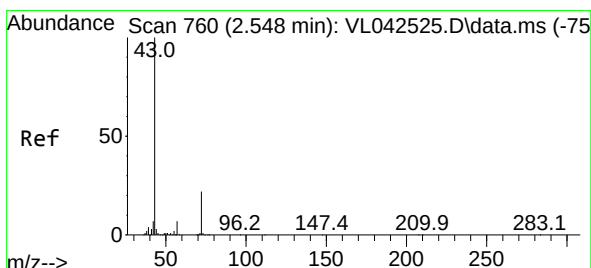
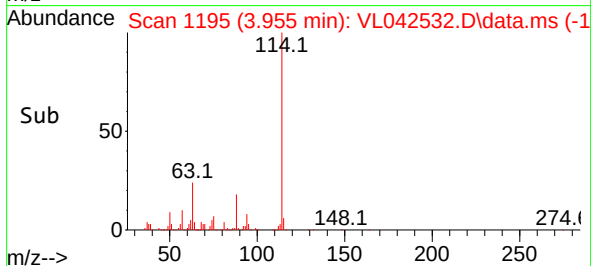
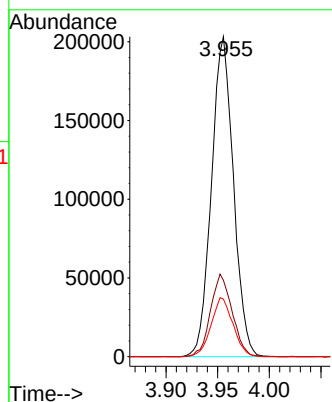
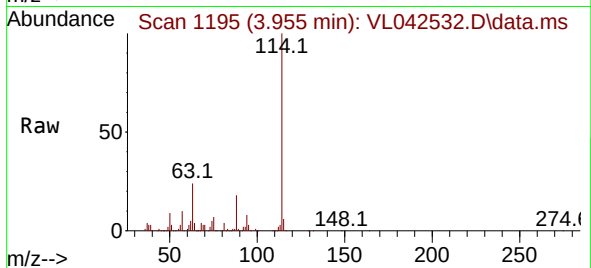
VSTDICC002

Tgt Ion:114	Resp: 300628
Ion Ratio	Lower Upper
114 100	
63 25.4	20.4 30.6
88 18.4	14.5 21.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#34

2-Butanone

Concen: 2.011 ppbv

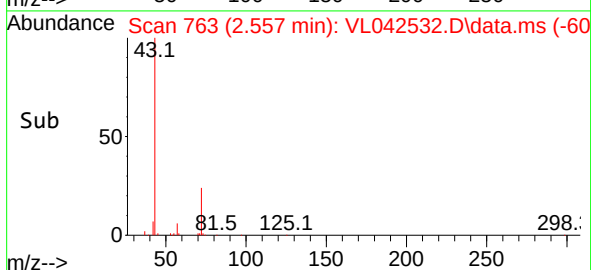
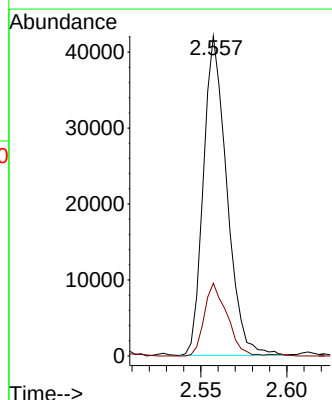
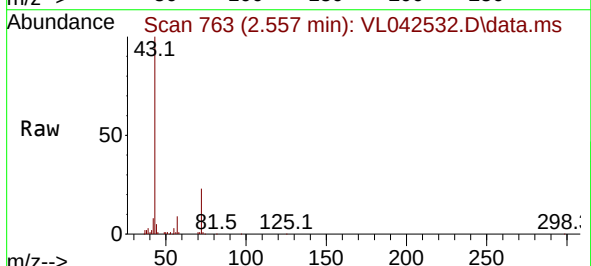
RT: 2.557 min Scan# 763

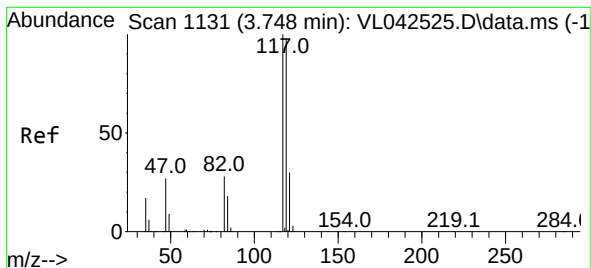
Delta R.T. 0.010 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

Tgt Ion: 43	Resp: 39851
Ion Ratio	Lower Upper
43 100	
72 22.5	18.7 28.1





#35

Carbon Tetrachloride

Concen: 2.030 ppbv

RT: 3.761 min Scan# 1101

Delta R.T. 0.013 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

Instrument :

MSVOA_L

ClientSampleId :

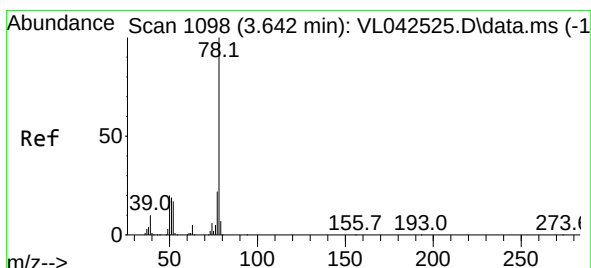
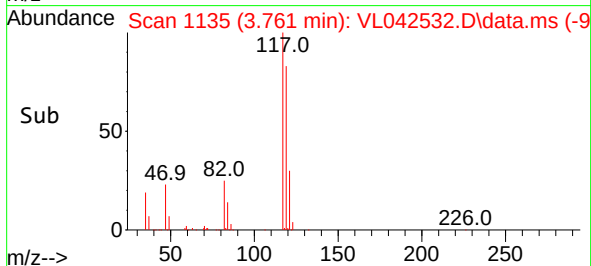
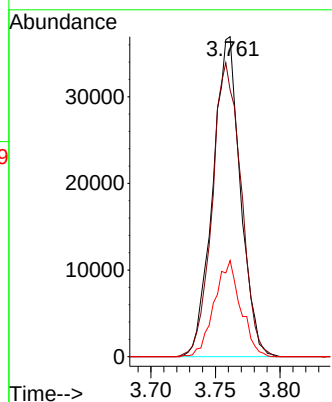
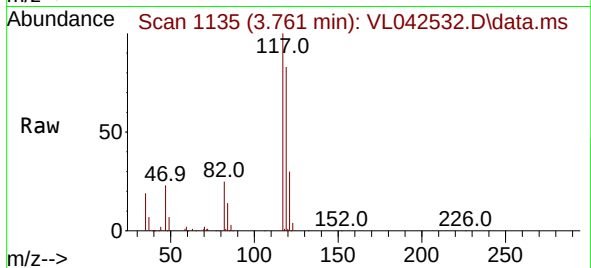
VSTDICC002

Tgt Ion:	117	Resp:	5487
Ion Ratio	Lower	Upper	
117	100		
119	83.4	77.7	116.5
121	30.1	24.0	36.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#36

Benzene

Concen: 1.987 ppbv

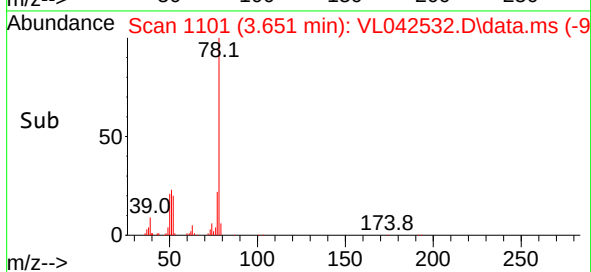
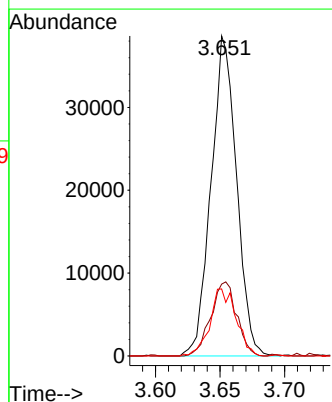
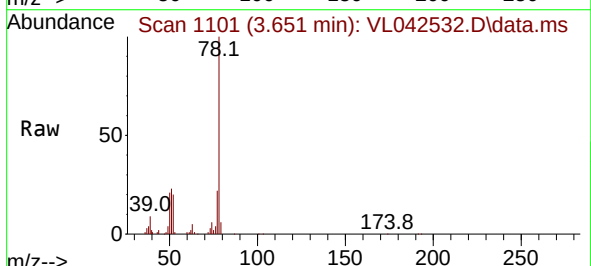
RT: 3.651 min Scan# 1101

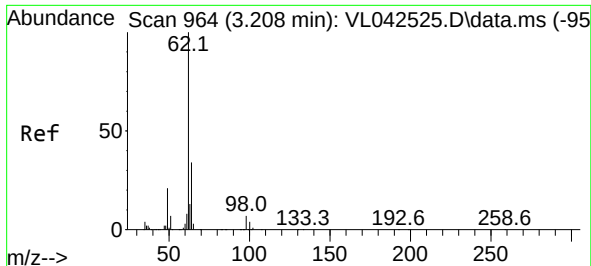
Delta R.T. 0.010 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

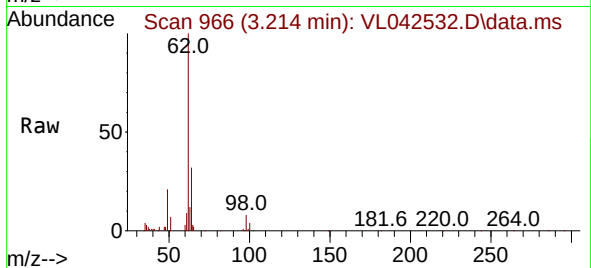
Tgt Ion:	78	Resp:	52942
Ion Ratio	Lower	Upper	
78	100		
77	22.5	17.4	26.2
50	21.0	16.3	24.5





#37
1,2-Dichloroethane
Concen: 2.103 ppbv
RT: 3.214 min Scan# 90
Delta R.T. 0.006 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

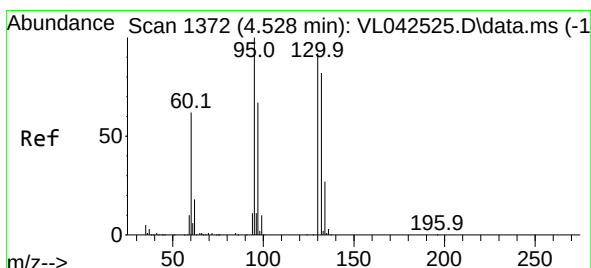
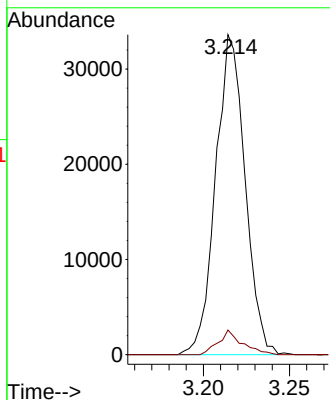
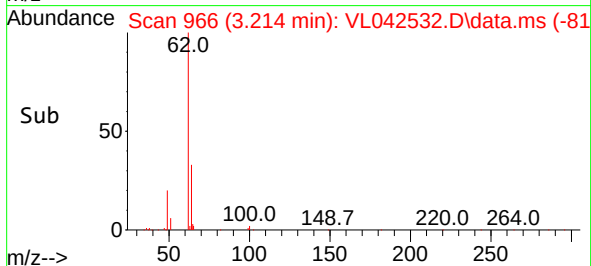
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



Tgt Ion: 62 Resp: 39974
Ion Ratio Lower Upper
62 100
98 6.2 5.0 7.4

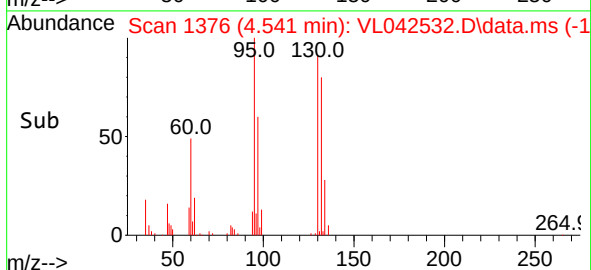
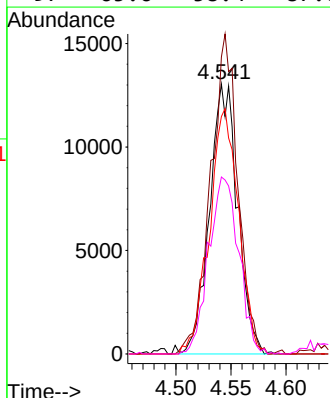
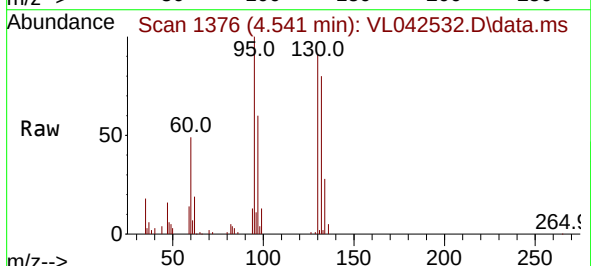
Manual Integrations
APPROVED

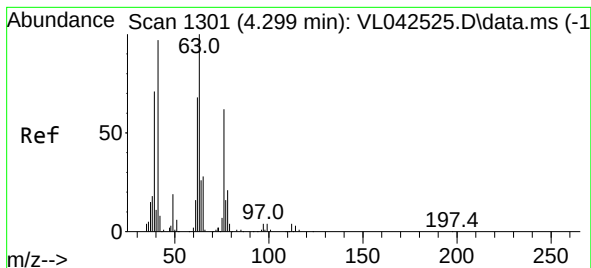
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#38
Trichloroethene
Concen: 2.027 ppbv m
RT: 4.541 min Scan# 1376
Delta R.T. 0.013 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

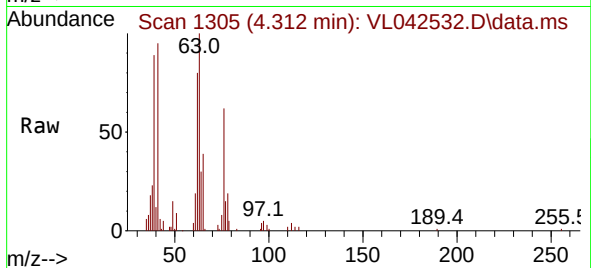
Tgt Ion:130 Resp: 23078
Ion Ratio Lower Upper
130 100
95 110.0 87.0 130.4
132 88.0 71.1 106.7
97 65.6 58.4 87.6





#39
 1,2-Dichloropropane
 Concen: 1.920 ppbv
 RT: 4.312 min Scan# 1305
 Delta R.T. 0.013 min
 Lab File: VL042532.D
 Acq: 12 May 2025 12:58

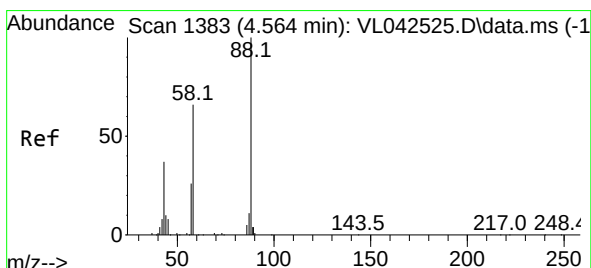
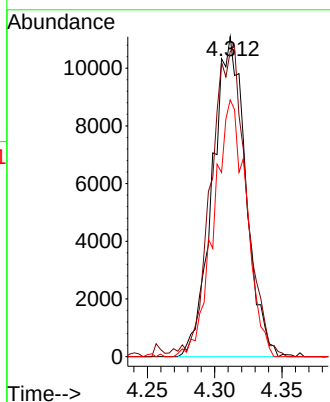
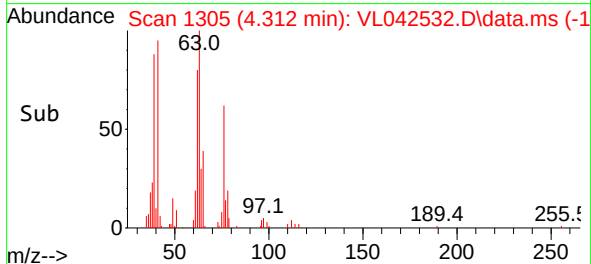
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002



Tgt Ion: 63 Resp: 19038
 Ion Ratio Lower Upper
 63 100
 41 93.7 77.5 116.3
 62 80.2 54.6 82.0

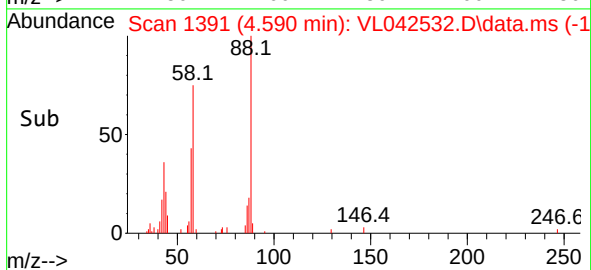
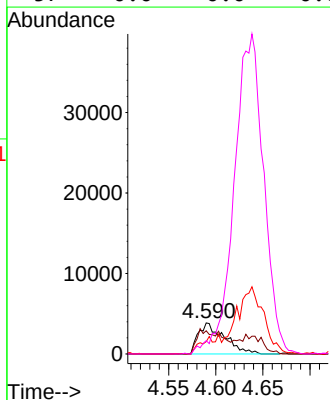
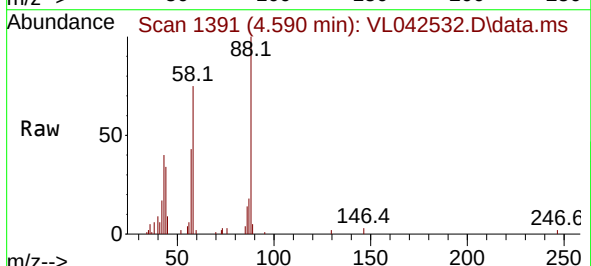
Manual Integrations
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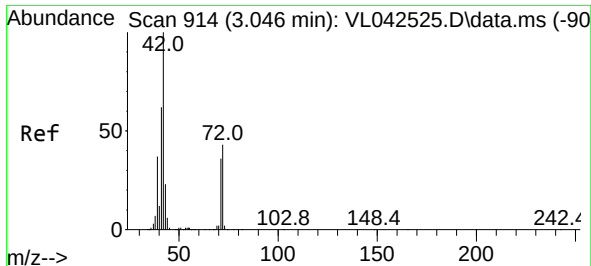
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025



#40
 1,4-Dioxane
 Concen: 1.883 ppbv m
 RT: 4.590 min Scan# 1391
 Delta R.T. 0.026 min
 Lab File: VL042532.D
 Acq: 12 May 2025 12:58

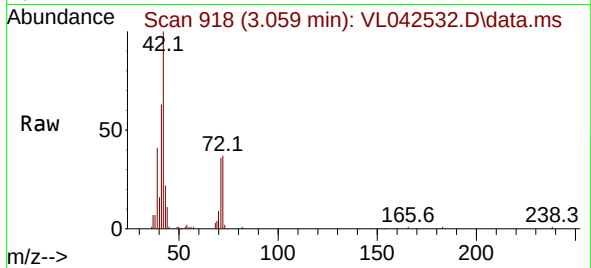
Tgt Ion: 88 Resp: 7446
 Ion Ratio Lower Upper
 88 100
 58 92.2 58.2 87.2#
 43 0.0 27.9 41.9#
 57 0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 2.008 ppbv m
RT: 3.059 min Scan# 914
Delta R.T. 0.013 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

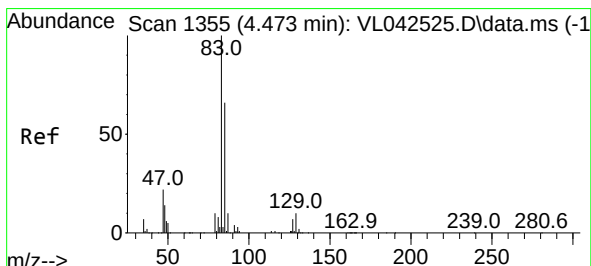
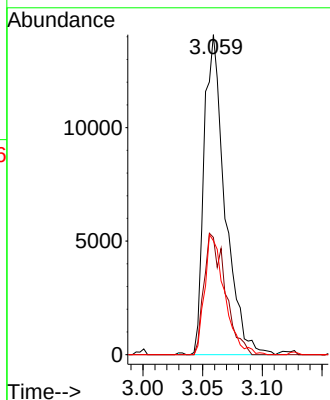
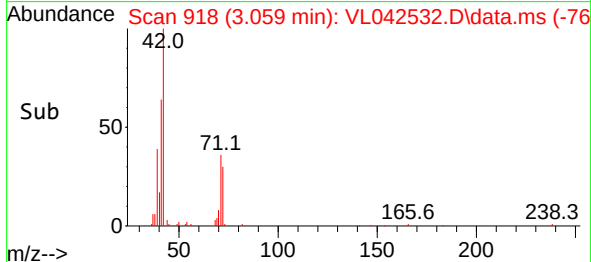
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



Tgt Ion: 42 Resp: 1716
Ion Ratio Lower Upper
42 100
72 38.8 32.7 49.1
71 35.8 30.4 45.6

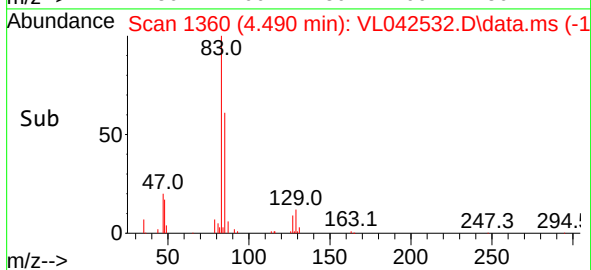
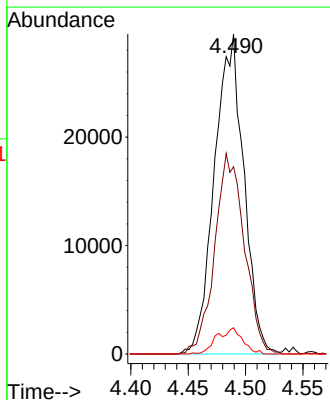
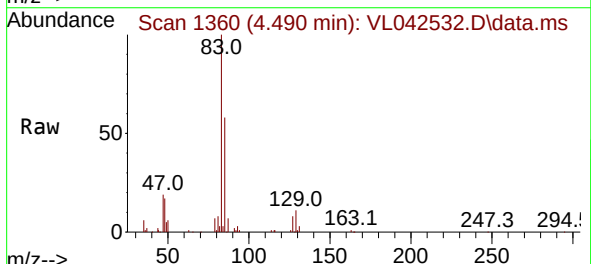
Manual Integrations
APPROVED

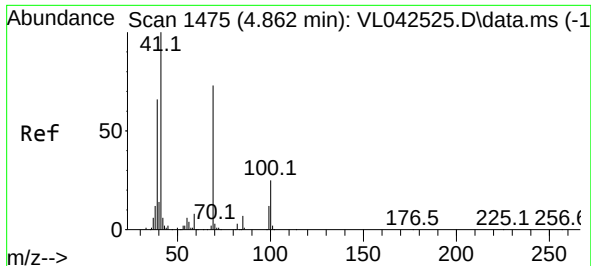
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#42
Bromodichloromethane
Concen: 2.072 ppbv
RT: 4.490 min Scan# 1360
Delta R.T. 0.016 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

Tgt Ion: 83 Resp: 52451
Ion Ratio Lower Upper
83 100
85 58.5 52.6 79.0
127 8.2 6.0 9.0





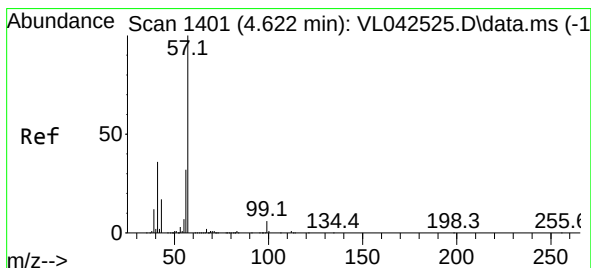
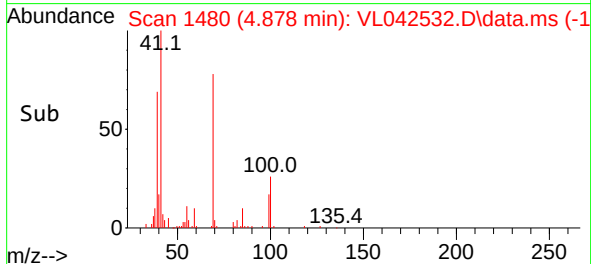
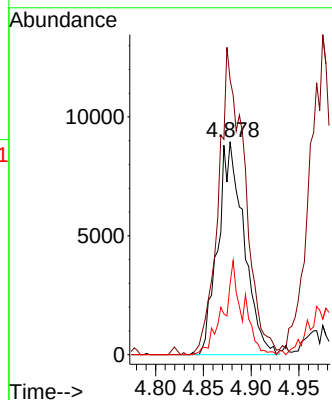
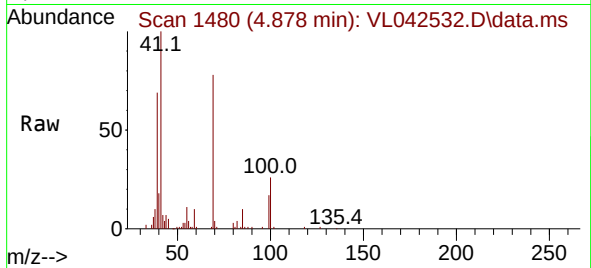
#43
Methyl Methacrylate
Concen: 1.916 ppbv m
RT: 4.878 min Scan# 1475
Delta R.T. 0.016 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 69 Resp: 17050
Ion Ratio Lower Upper
69 100
41 0.0 119.9 179.9
100 0.0 28.4 42.6

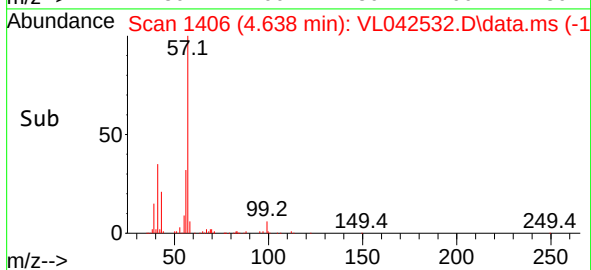
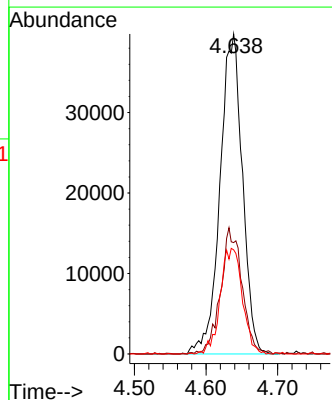
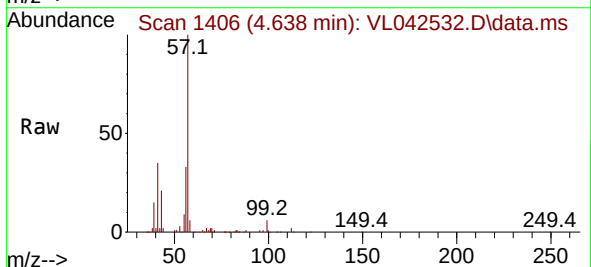
Manual Integrations
APPROVED

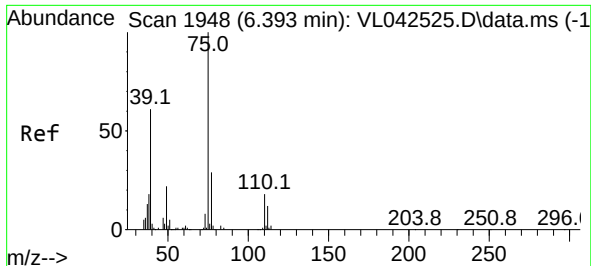
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#44
2,2,4-Trimethylpentane
Concen: 2.068 ppbv m
RT: 4.638 min Scan# 1406
Delta R.T. 0.016 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

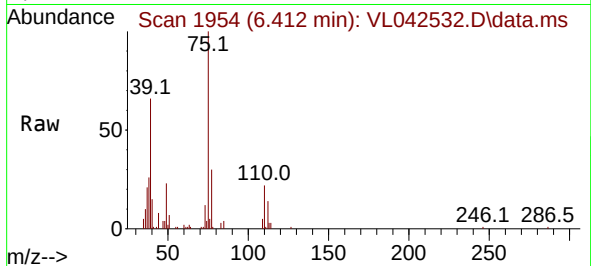
Tgt Ion: 57 Resp: 86512
Ion Ratio Lower Upper
57 100
41 38.0 28.3 42.5
56 0.0 25.9 38.9





#45
t-1,3-Dichloropropene
Concen: 1.790 ppbv m
RT: 6.412 min Scan# 1948
Delta R.T. 0.019 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

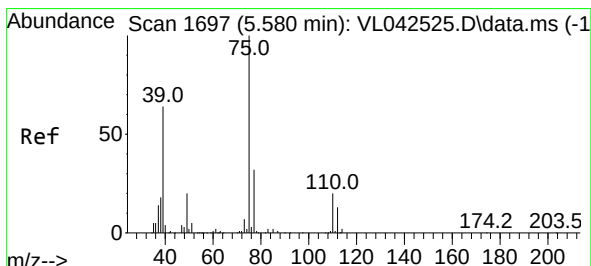
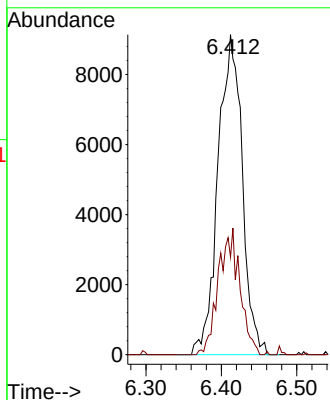
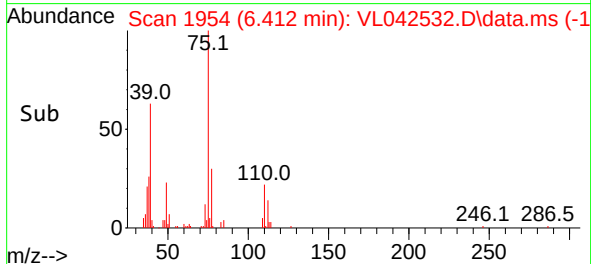
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



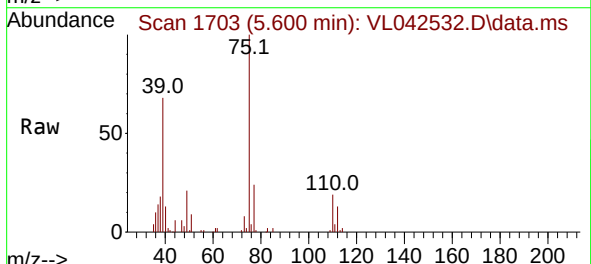
Tgt Ion: 75 Resp: 20334
Ion Ratio Lower Upper
75 100
77 30.4 23.3 34.9

Manual Integrations
APPROVED

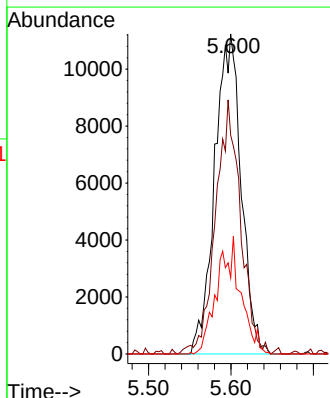
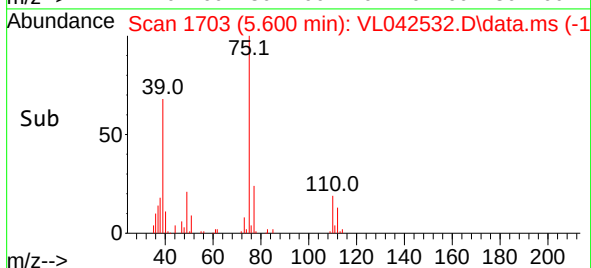
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

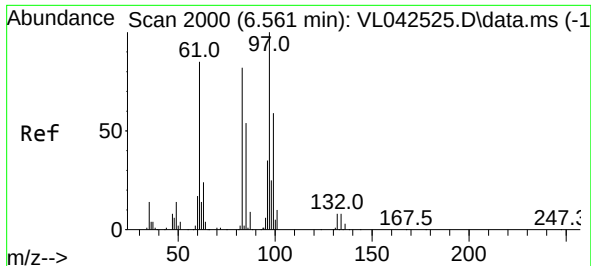


#46
cis-1,3-Dichloropropene
Concen: 1.831 ppbv m
RT: 5.600 min Scan# 1703
Delta R.T. 0.019 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58



Tgt Ion: 75 Resp: 25085
Ion Ratio Lower Upper
75 100
39 68.3 51.2 76.8
77 23.8 25.4 38.0#





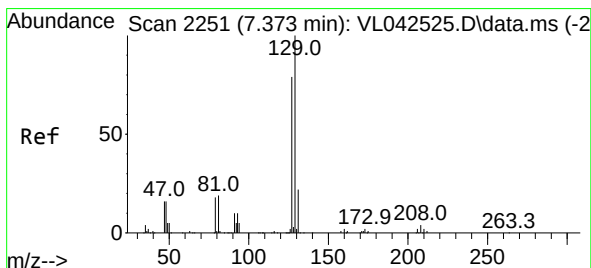
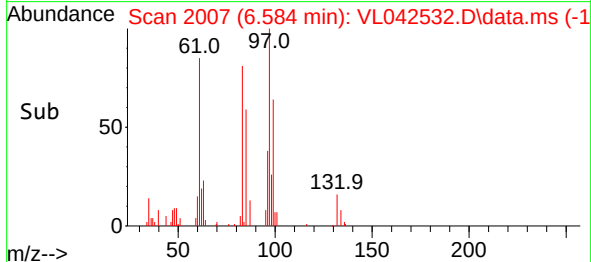
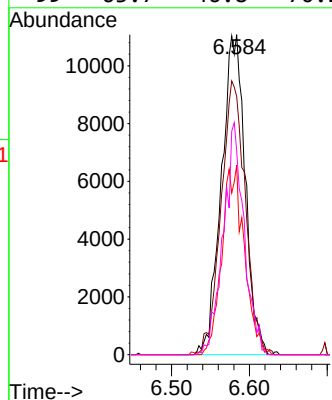
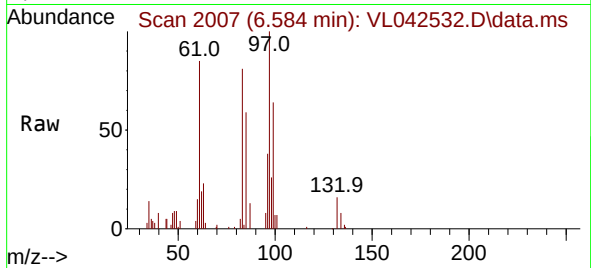
#47
1,1,2-Trichloroethane
Concen: 2.019 ppbv m
RT: 6.584 min Scan# 2000
Delta R.T. 0.023 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion: 97 Resp: 23580
Ion Ratio Lower Upper
97 100
83 80.7 66.0 99.0
85 59.2 42.8 64.2
99 63.7 46.8 70.2

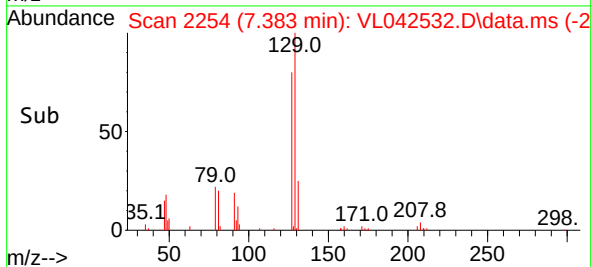
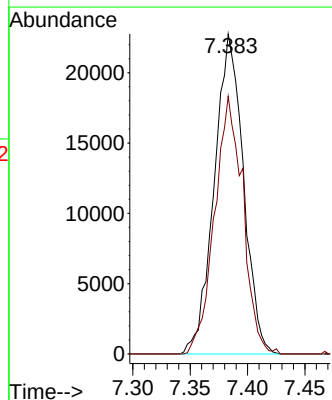
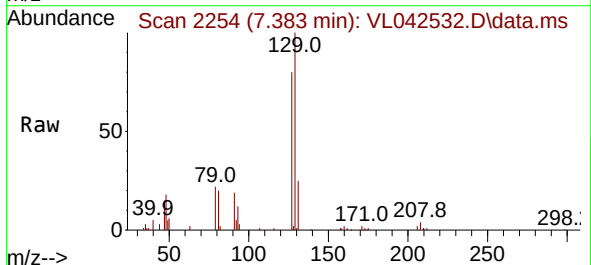
Manual Integrations
APPROVED

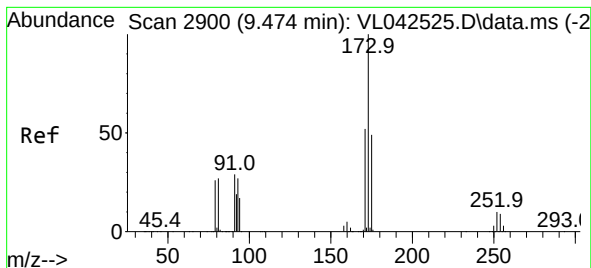
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#48
Dibromochloromethane
Concen: 2.058 ppbv
RT: 7.383 min Scan# 2254
Delta R.T. 0.010 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

Tgt Ion:129 Resp: 40163
Ion Ratio Lower Upper
129 100
127 78.4 39.6 118.8





#49

Bromoform

Concen: 2.056 ppbv

RT: 9.480 min Scan# 2900

Delta R.T. 0.006 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

Instrument :

MSVOA_L

ClientSampleId :

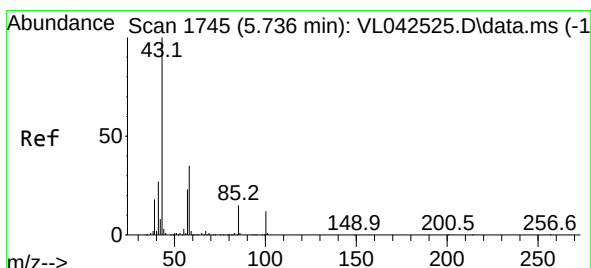
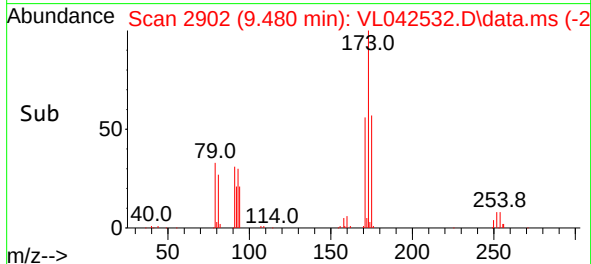
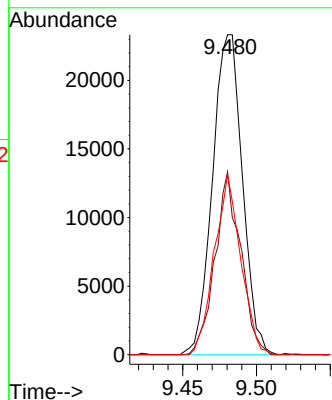
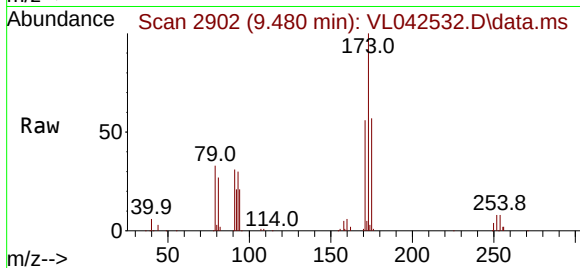
VSTDIC002

Tgt Ion:173 Resp: 32910
 Ion Ratio Lower Upper
 173 100
 175 49.2 39.1 58.7
 171 49.8 41.8 62.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025



#50

4-Methyl-2-Pentanone

Concen: 1.994 ppbv

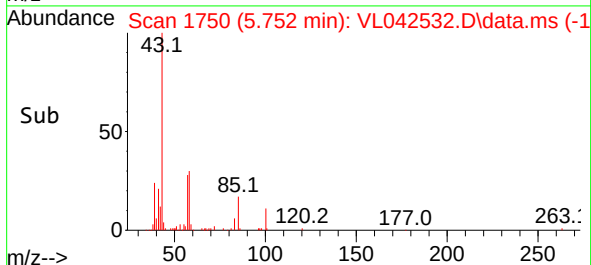
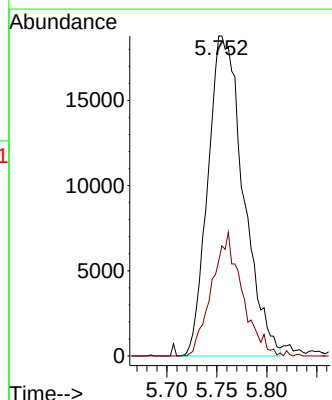
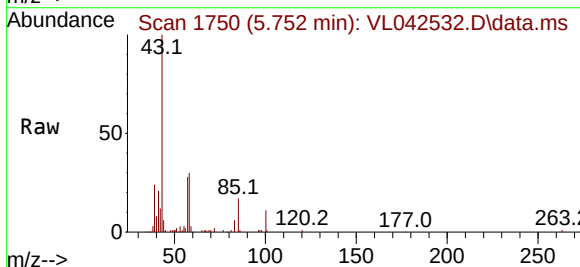
RT: 5.752 min Scan# 1750

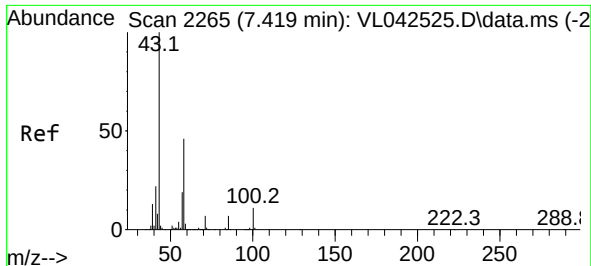
Delta R.T. 0.016 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

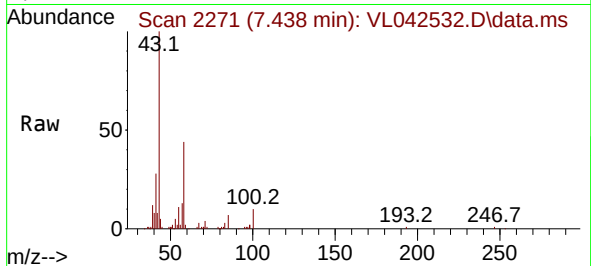
Tgt Ion: 43 Resp: 46331
 Ion Ratio Lower Upper
 43 100
 58 33.4 28.6 42.8





#51
2-Hexanone
Concen: 1.916 ppbv
RT: 7.438 min Scan# 2113
Delta R.T. 0.019 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

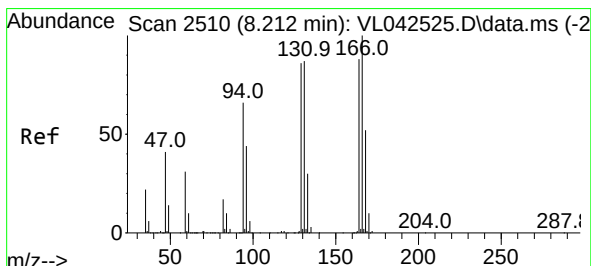
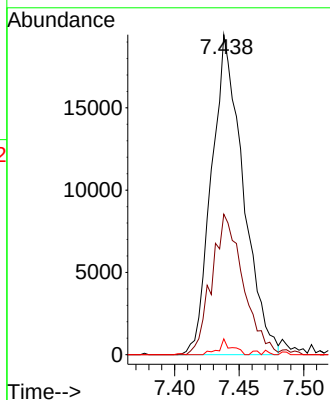
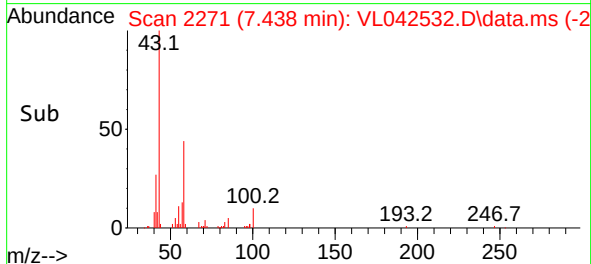
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



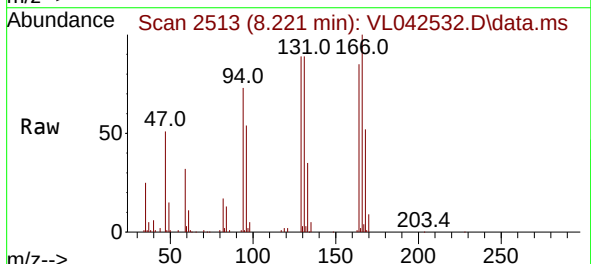
Tgt Ion: 43 Resp: 3308
Ion Ratio Lower Upper
43 100
58 44.3 37.5 56.3
98 2.7 0.9 1.3

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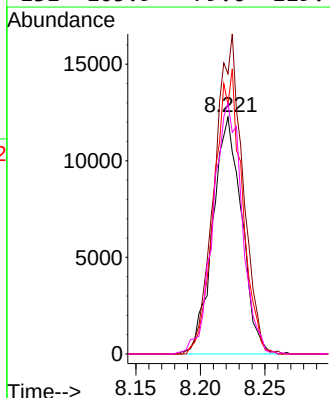
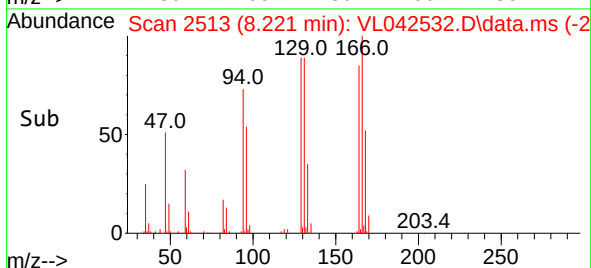
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

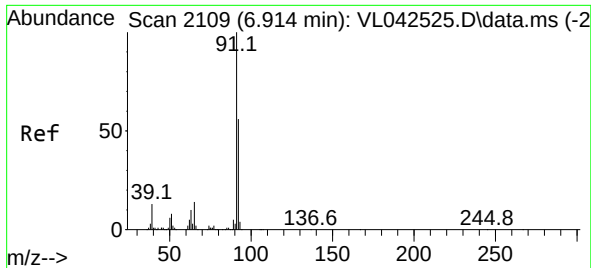


#52
Tetrachloroethene
Concen: 1.863 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. 0.010 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58



Tgt Ion:164 Resp: 19118
Ion Ratio Lower Upper
164 100
166 118.3 91.3 136.9
129 105.4 78.9 118.3
131 105.9 79.6 119.4





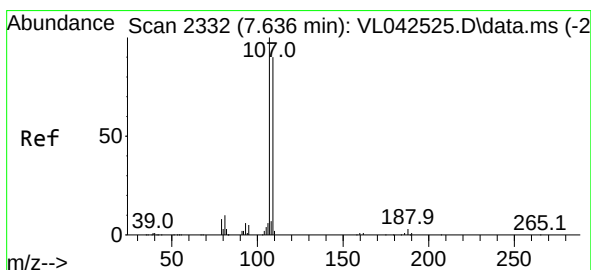
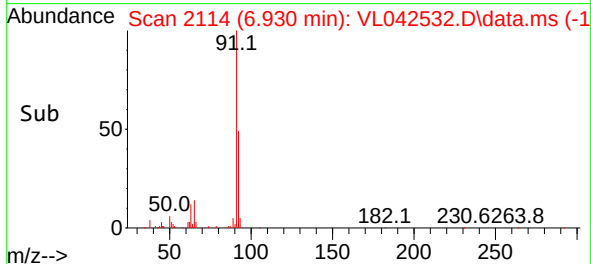
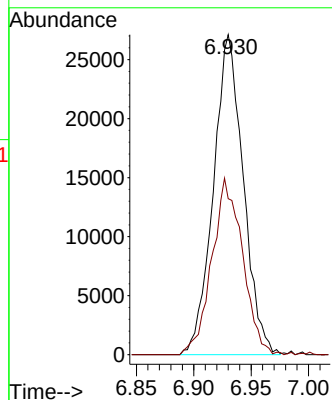
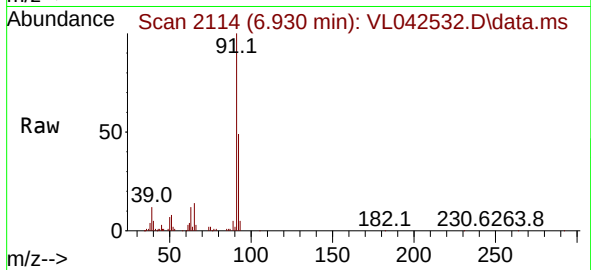
#53
Toluene
Concen: 1.882 ppbv
RT: 6.930 min Scan# 2109
Delta R.T. 0.016 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion: 91 Resp: 49210
Ion Ratio Lower Upper
91 100
92 56.6 47.8 71.6

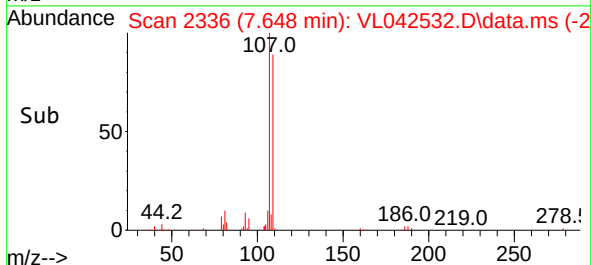
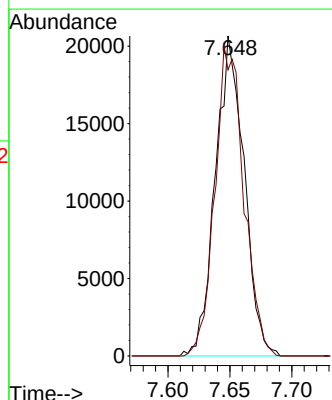
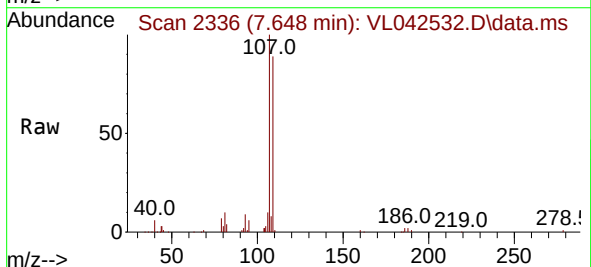
Manual Integrations
APPROVED

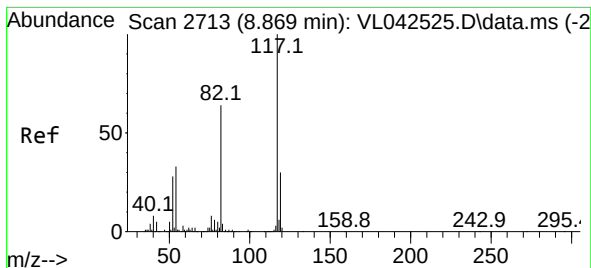
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#54
1,2-Dibromoethane
Concen: 1.958 ppbv
RT: 7.648 min Scan# 2336
Delta R.T. 0.013 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

Tgt Ion:107 Resp: 33420
Ion Ratio Lower Upper
107 100
109 89.5 72.2 108.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.882 min Scan# 2713

Delta R.T. 0.013 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

Instrument :

MSVOA_L

ClientSampleId :

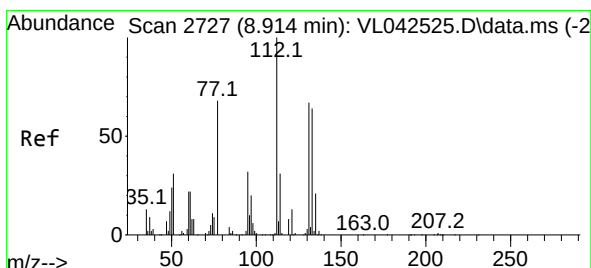
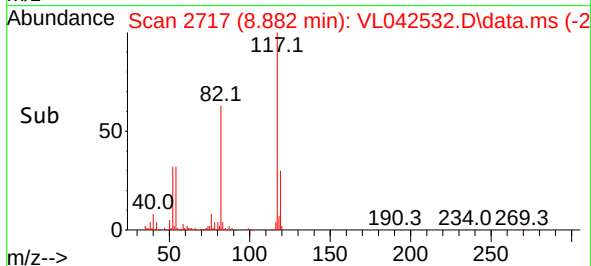
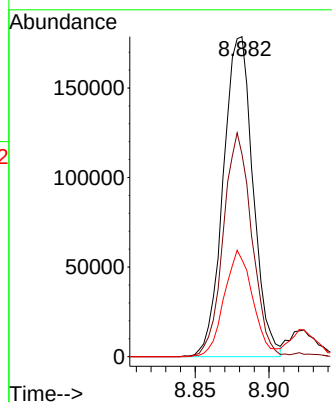
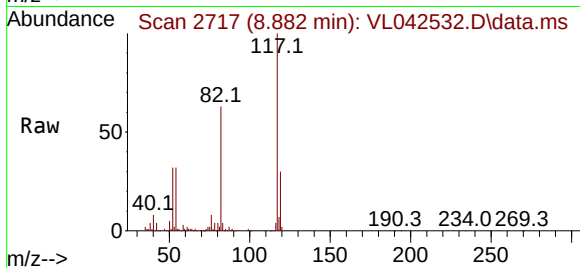
VSTDICC002

Tgt Ion:	117	Resp:	25130
Ion Ratio	Lower	Upper	
117	100		
82	67.6	55.0	82.4
119	31.9	25.8	38.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#56

1,1,1,2-Tetrachloroethane

Concen: 2.119 ppbv

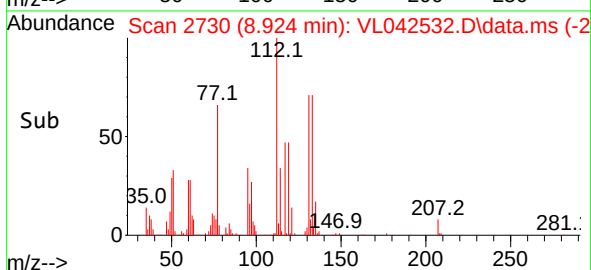
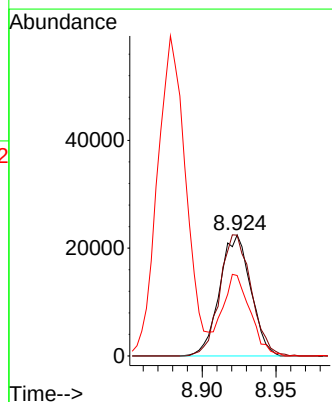
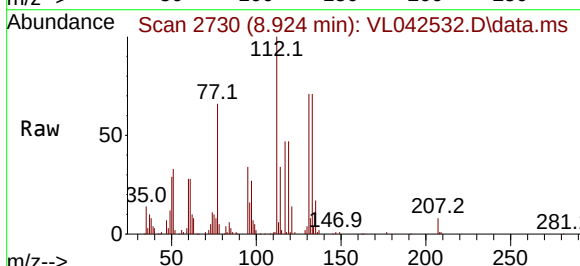
RT: 8.924 min Scan# 2730

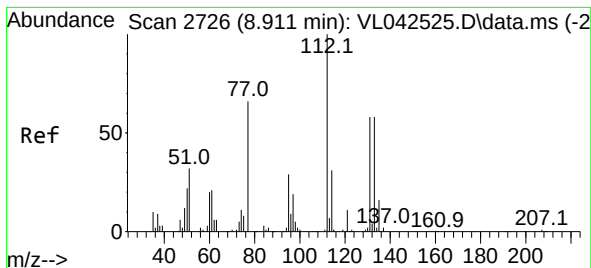
Delta R.T. 0.010 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

Tgt Ion:	131	Resp:	33013
Ion Ratio	Lower	Upper	
131	100		
133	100.7	77.4	116.2
119	54.3	49.0	73.4





#57

Chlorobenzene

Concen: 2.147 ppbv

RT: 8.917 min Scan# 21

Delta R.T. 0.006 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

Instrument :

MSVOA_L

ClientSampleId :

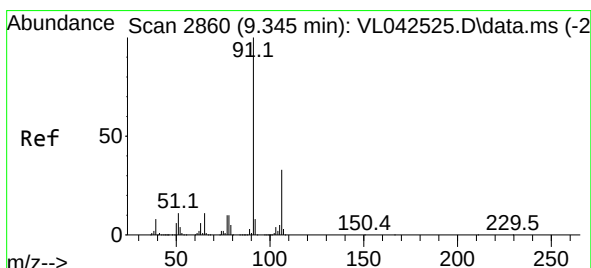
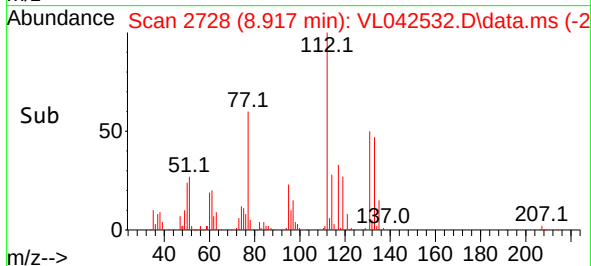
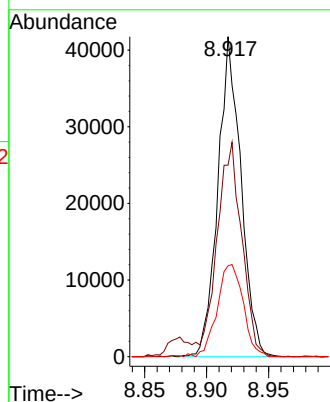
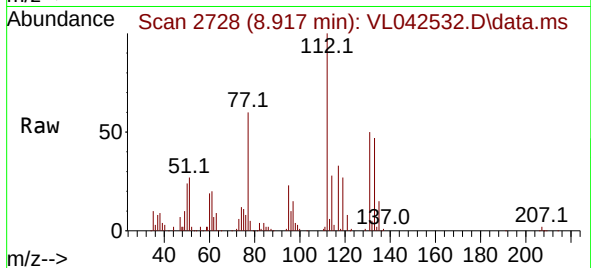
VSTDIC002

Tgt Ion:	112	Resp:	5417
Ion Ratio	Lower	Upper	
112	100		
77	59.7	53.6	80.4
114	28.4	28.2	34.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#58

Ethyl Benzene

Concen: 1.934 ppbv

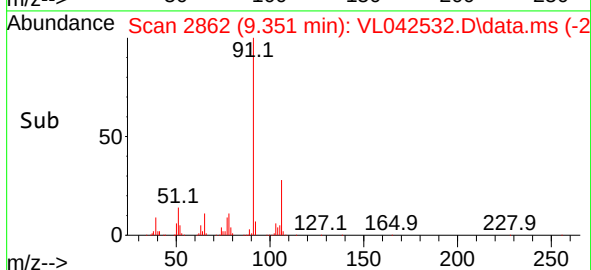
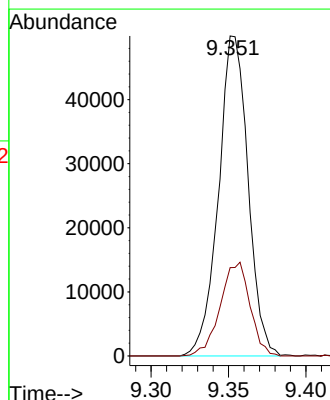
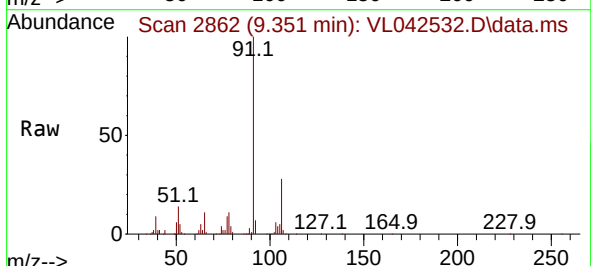
RT: 9.351 min Scan# 2862

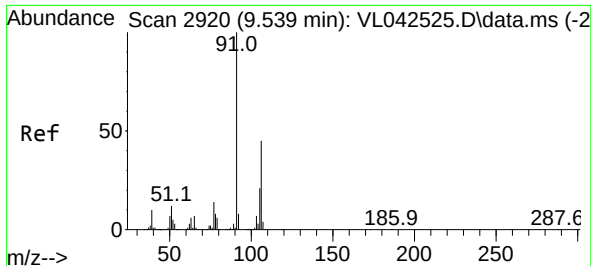
Delta R.T. 0.006 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

Tgt Ion:	91	Resp:	66256
Ion Ratio	Lower	Upper	
91	100		
106	27.6	26.0	39.0





#59

m/p-Xylene

Concen: 4.372 ppbv m

RT: 9.545 min Scan# 2920

Delta R.T. 0.006 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion: 91 Resp: 13320

Ion Ratio Lower Upper

91 100

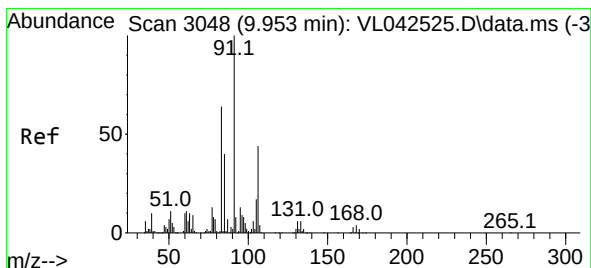
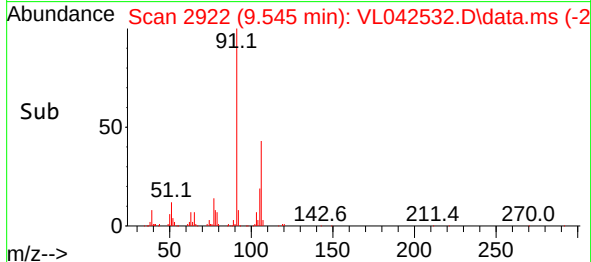
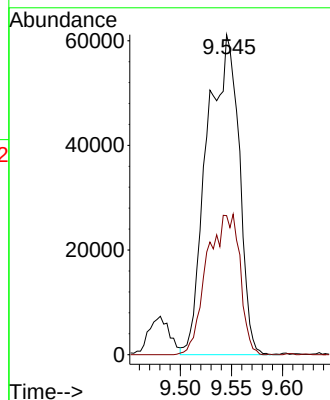
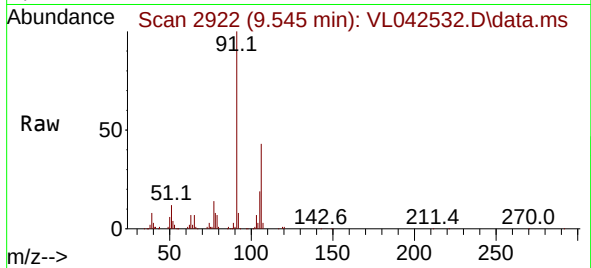
106 45.0 0.0 0.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/14/2025

Supervised By :Mahesh Dadoda 05/14/2025



#60

o-Xylene

Concen: 2.188 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. 0.010 min

Lab File: VL042532.D

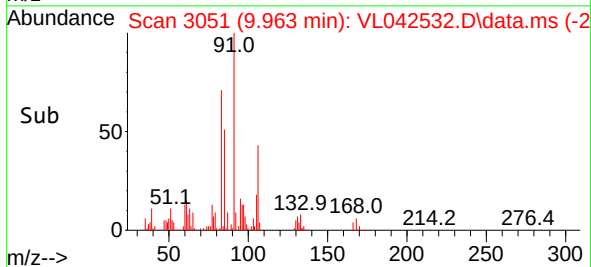
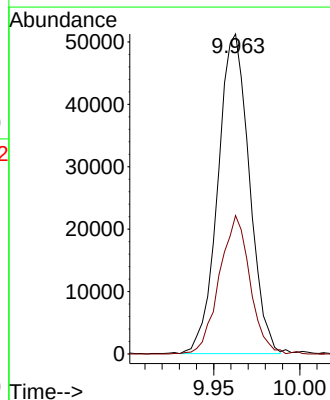
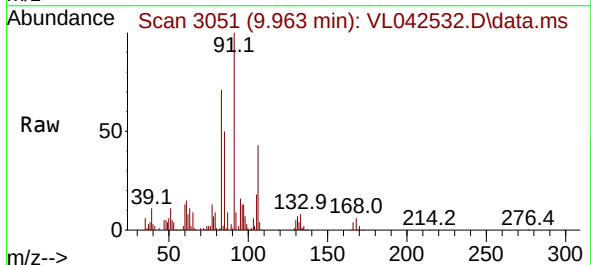
Acq: 12 May 2025 12:58

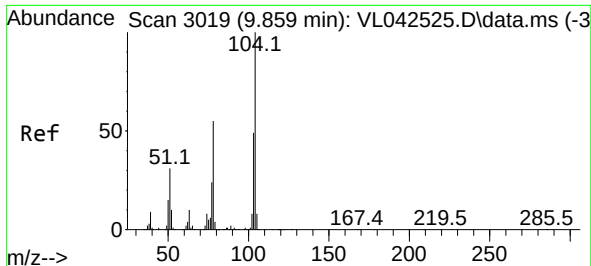
Tgt Ion: 91 Resp: 64958

Ion Ratio Lower Upper

91 100

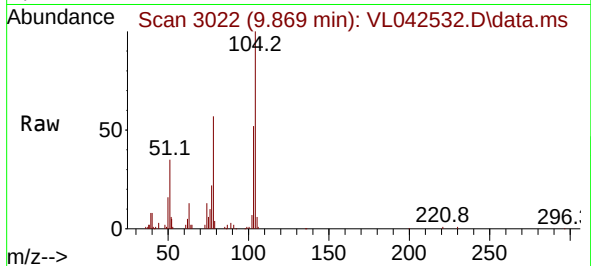
106 42.3 21.6 64.6





#61
Styrene
Concen: 1.802 ppbv m
RT: 9.869 min Scan# 3019
Delta R.T. 0.010 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

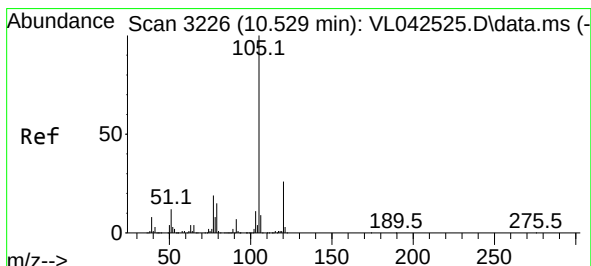
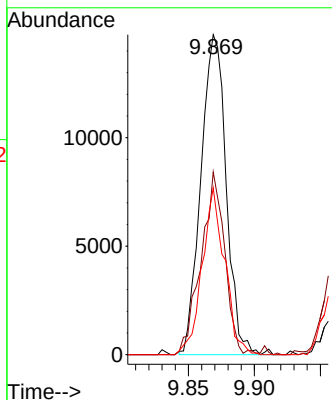
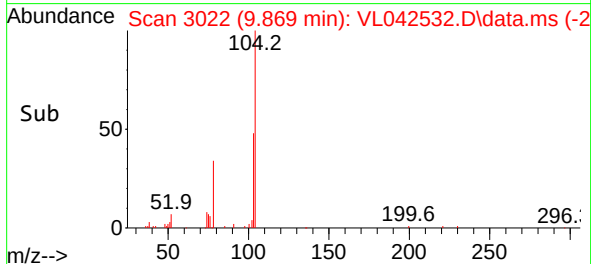
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



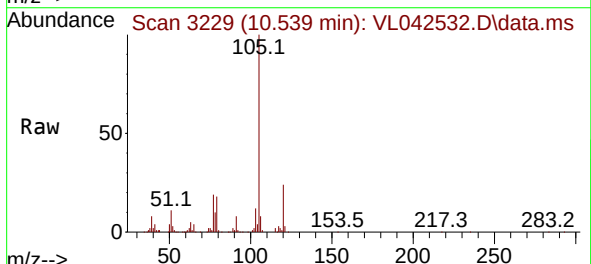
Tgt Ion:104 Resp: 1971
Ion Ratio Lower Upper
104 100
78 53.9 44.7 67.1
103 46.5 38.6 58.0

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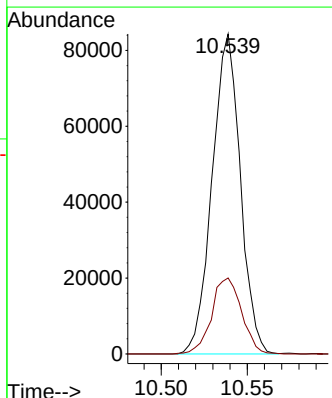
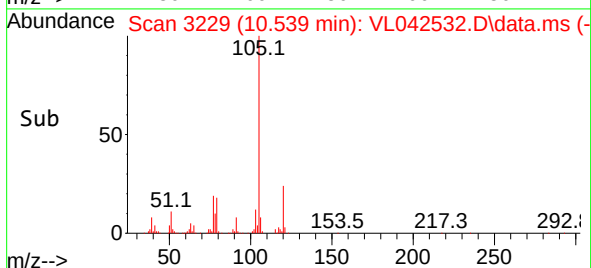
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

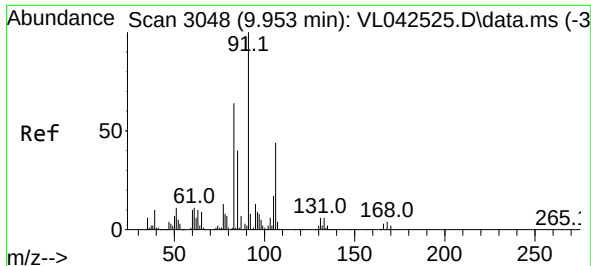


#62
Isopropylbenzene
Concen: 2.147 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. 0.010 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58



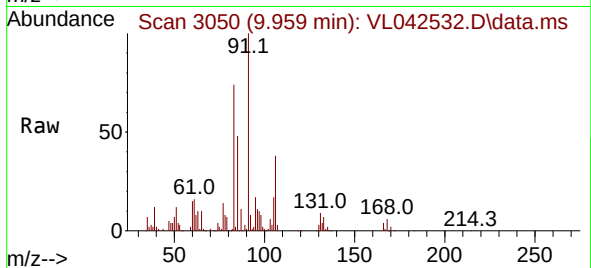
Tgt Ion:105 Resp: 96054
Ion Ratio Lower Upper
105 100
120 25.3 20.1 30.1





#63
1,1,2,2-Tetrachloroethane
Concen: 2.096 ppbv
RT: 9.959 min Scan# 3048
Delta R.T. 0.006 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

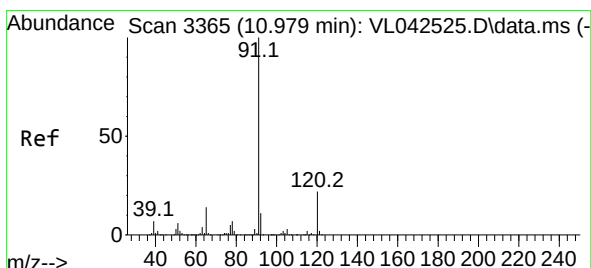
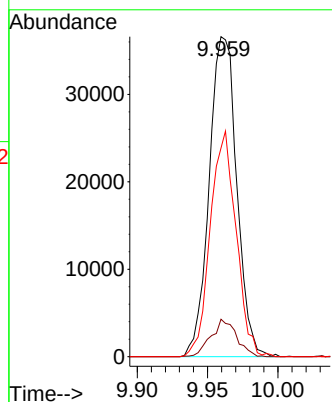
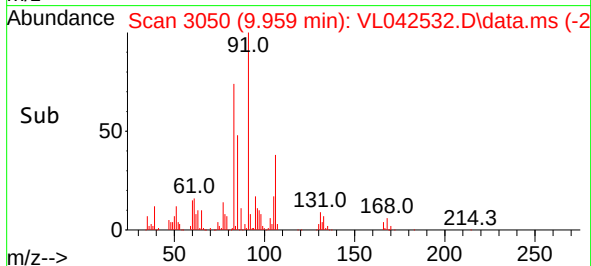
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



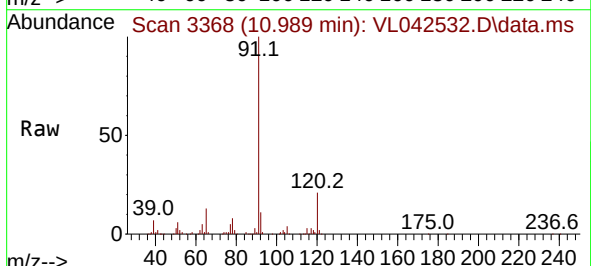
Tgt Ion: 83 Resp: 4990
Ion Ratio Lower Upper
83 100
131 10.8 4.9 14.7
85 65.9 32.3 96.8

Manual Integrations
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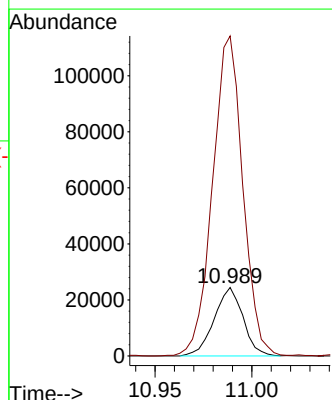
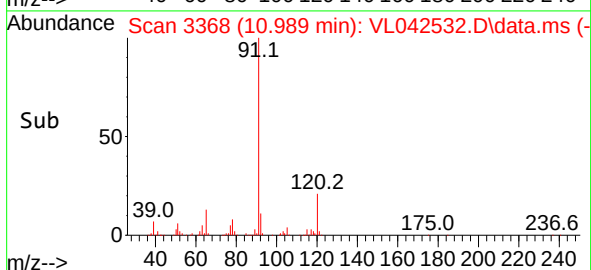
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

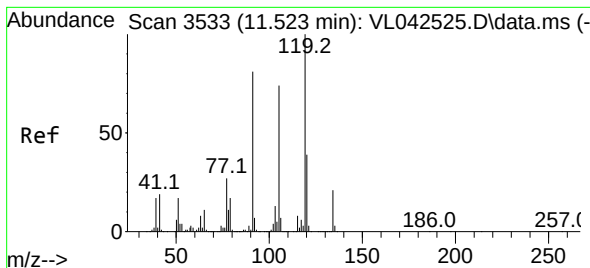


#64
n-propylbenzene
Concen: 2.230 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. 0.010 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58



Tgt Ion:120 Resp: 25286
Ion Ratio Lower Upper
120 100
91 491.5 377.7 566.5





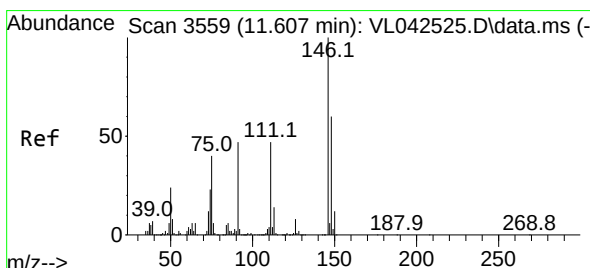
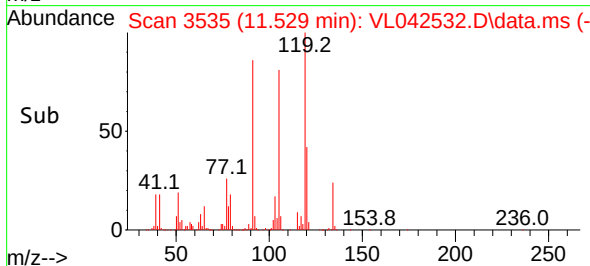
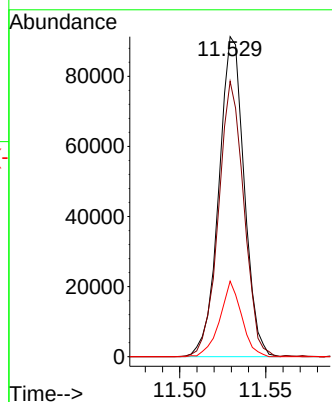
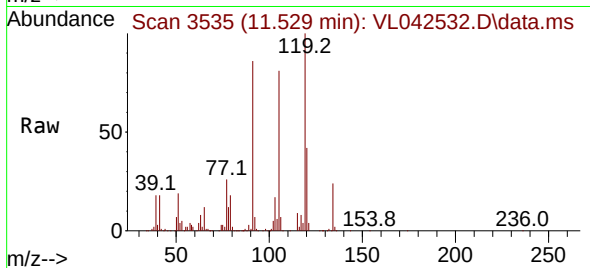
#65
tert-Butylbenzene
Concen: 2.278 ppbv
RT: 11.529 min Scan# 3533
Delta R.T. 0.006 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion:	119	Resp:	93604
Ion Ratio	Lower	Upper	
119	100		
91	86.3	66.6	99.8
134	20.3	16.3	24.5

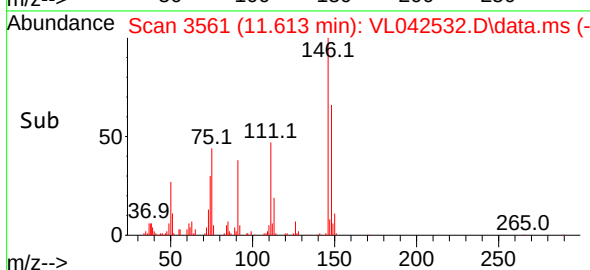
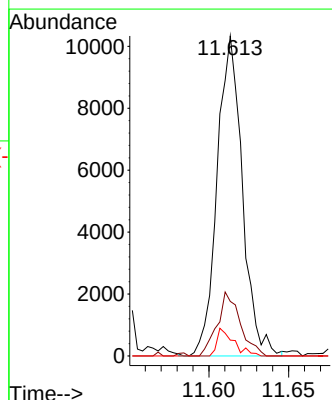
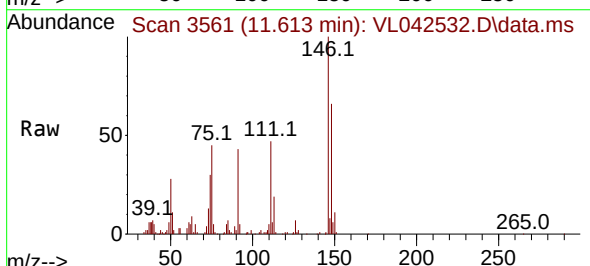
Manual Integrations
APPROVED

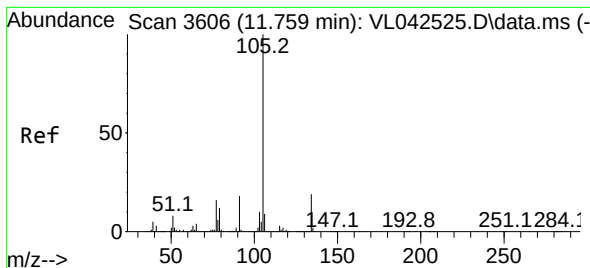
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#66
Benzyl Chloride
Concen: 2.089 ppbv m
RT: 11.613 min Scan# 3561
Delta R.T. 0.006 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

Tgt Ion:	91	Resp:	11357
Ion Ratio	Lower	Upper	
91	100		
126	18.7	13.7	20.5
128	5.8	4.2	6.2





#67

sec-Butylbenzene

Concen: 2.316 ppbv

RT: 11.765 min Scan# 3608

Delta R.T. 0.006 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

Tgt Ion:105 Resp: 136432

Ion Ratio Lower Upper

105 100

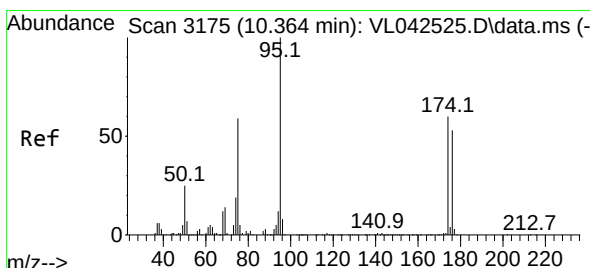
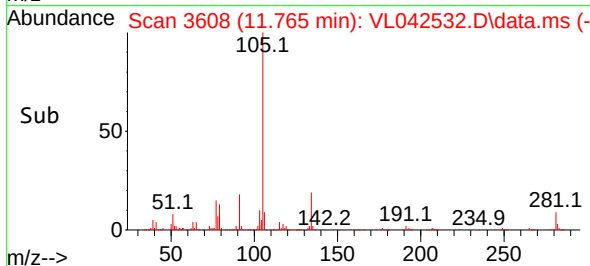
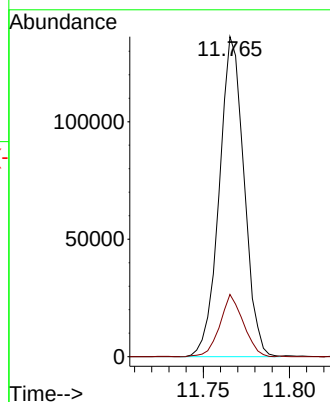
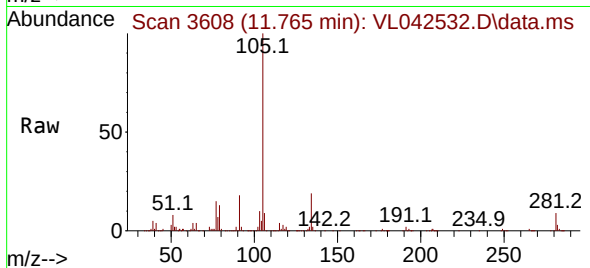
134 18.5 14.9 22.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025

Supervised By :Mahesh Dadoda 05/14/2025



#68

1-Bromo-4-Fluorobenzene

Concen: 10.238 ppbv

RT: 10.374 min Scan# 3178

Delta R.T. 0.010 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

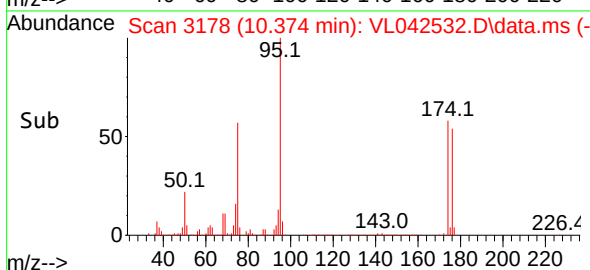
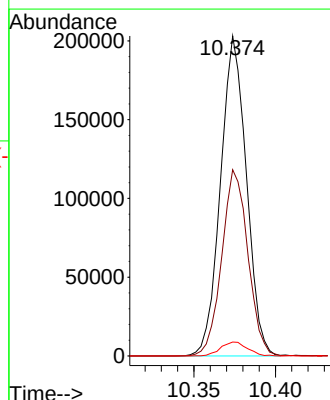
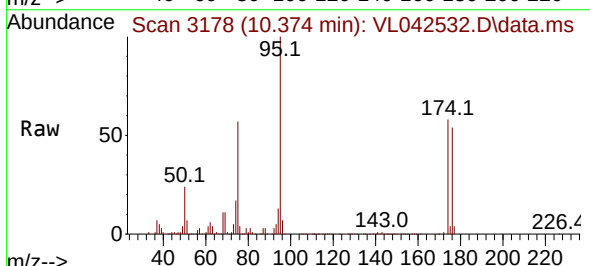
Tgt Ion: 95 Resp: 223868

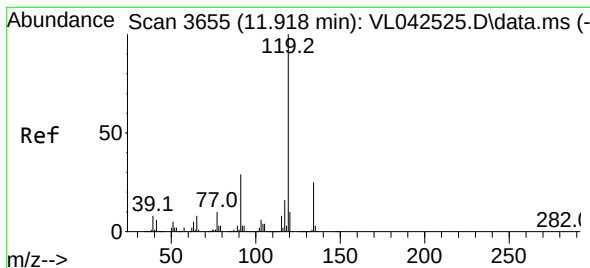
Ion Ratio Lower Upper

95 100

174 59.0 48.0 72.0

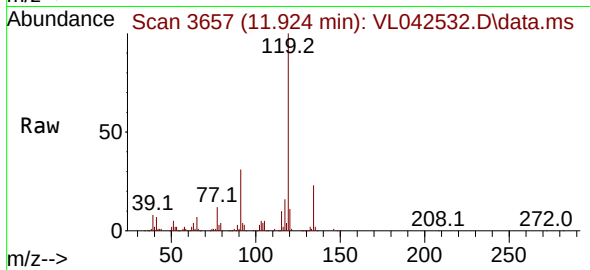
175 4.6 3.5 5.3





#69
p-Isopropyltoluene
Concen: 2.332 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. 0.006 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

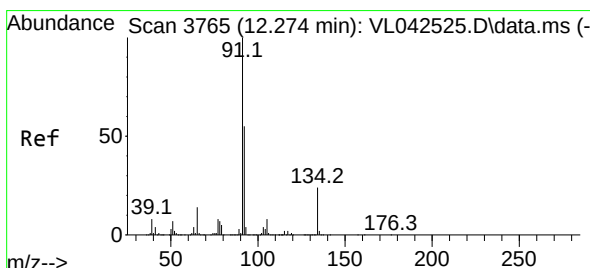
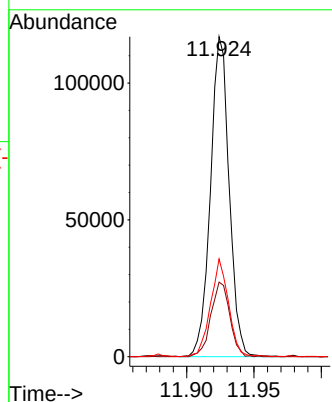
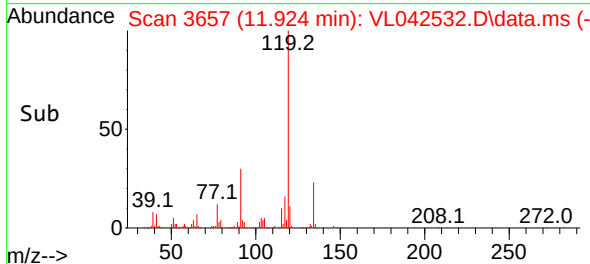
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



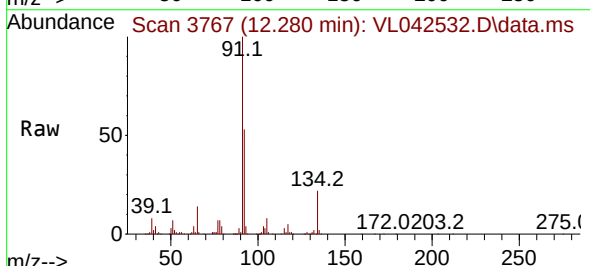
Tgt Ion: 119 Resp: 112911
Ion Ratio Lower Upper
119 100
134 23.5 19.8 29.6
91 30.3 23.6 35.4

Manual Integrations
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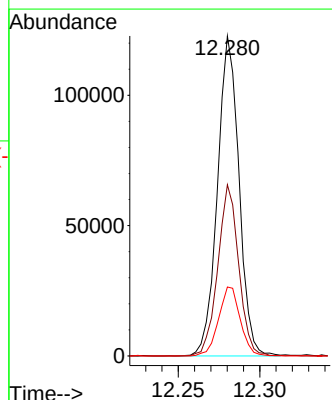
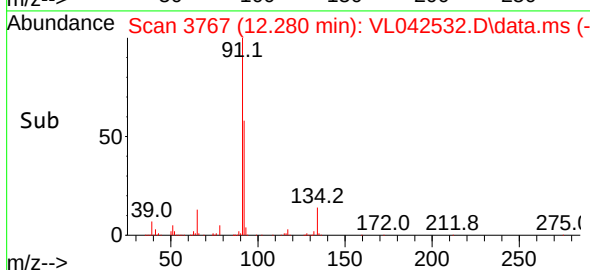
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

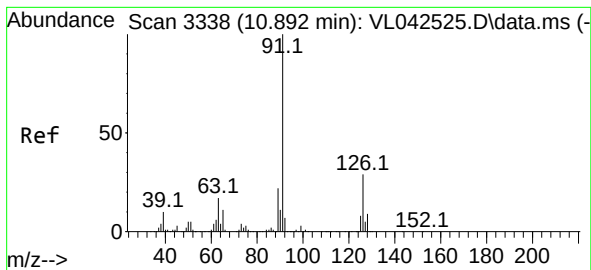


#70
n-Butylbenzene
Concen: 2.357 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. 0.006 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58



Tgt Ion: 91 Resp: 112776
Ion Ratio Lower Upper
91 100
92 51.8 43.7 65.5
134 21.7 18.9 28.3





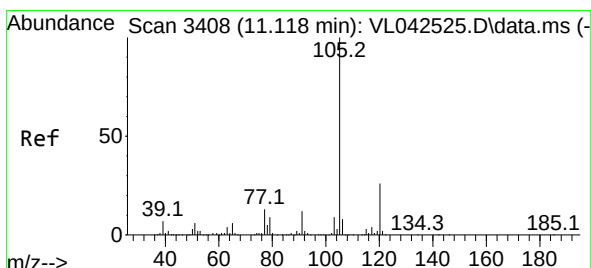
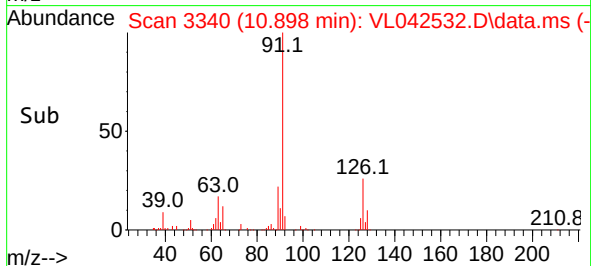
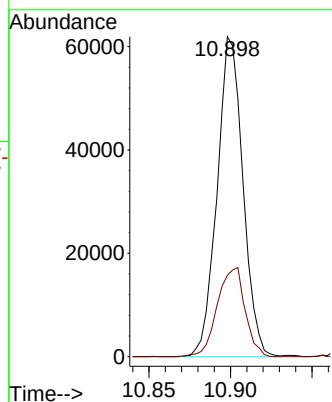
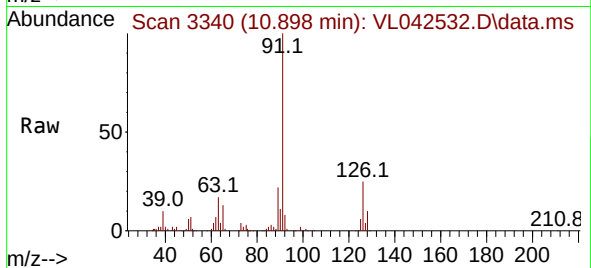
#71
2-Chlorotoluene
Concen: 2.012 ppbv
RT: 10.898 min Scan# 311
Delta R.T. 0.006 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 91 Resp: 6815
Ion Ratio Lower Upper
91 100
126 29.9 11.4 45.6

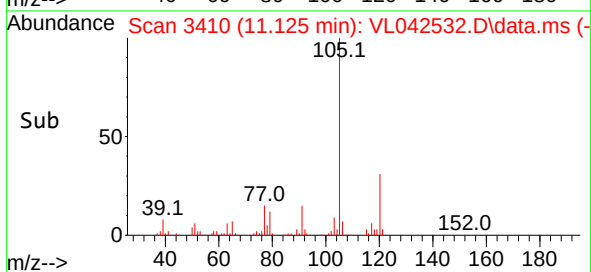
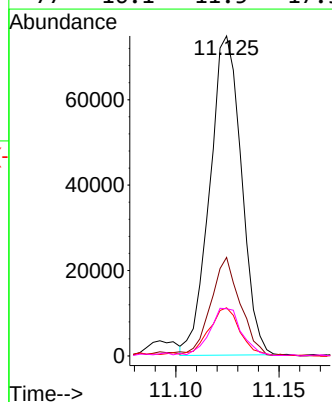
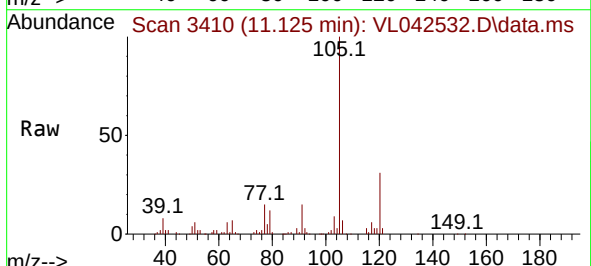
Manual Integrations
APPROVED

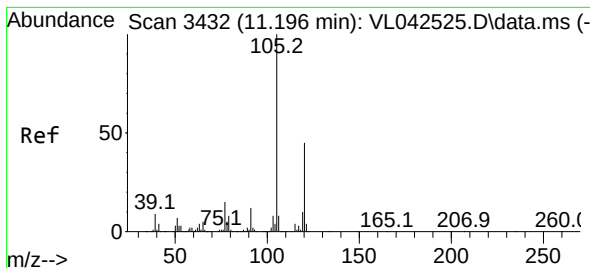
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#72
4-Ethyltoluene
Concen: 2.162 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.006 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

Tgt Ion:105 Resp: 79670
Ion Ratio Lower Upper
105 100
120 30.3 22.9 34.3
91 16.3 10.9 16.3
77 16.1 11.5 17.3





#73

1,3,5-Trimethylbenzene

Concen: 2.242 ppbv

RT: 11.202 min Scan# 3432

Delta R.T. 0.006 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion:105 Resp: 7198

Ion Ratio Lower Upper

105 100

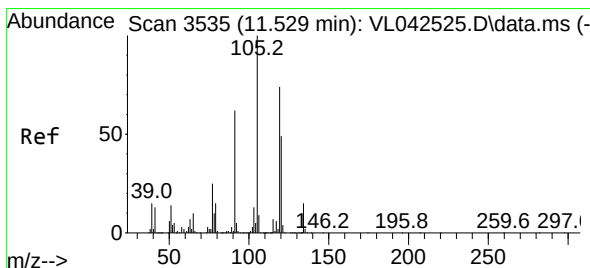
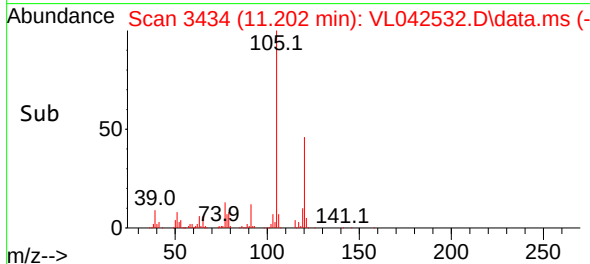
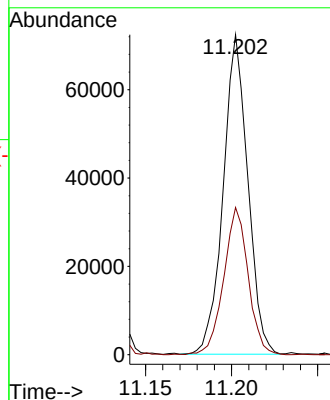
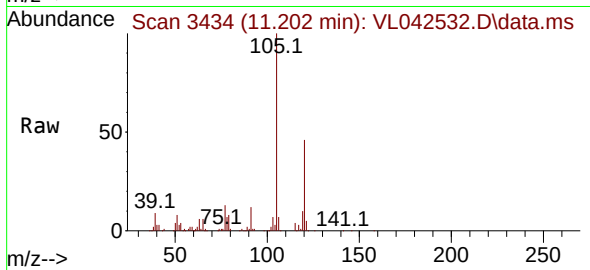
120 46.0 36.0 54.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025

Supervised By :Mahesh Dadoda 05/14/2025



#74

1,2,4-Trimethylbenzene

Concen: 2.443 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. 0.006 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

Tgt Ion:105 Resp: 96474

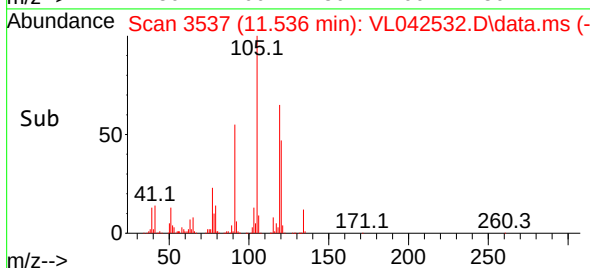
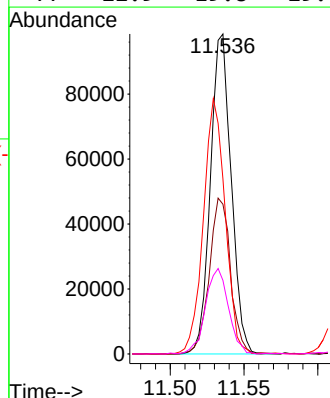
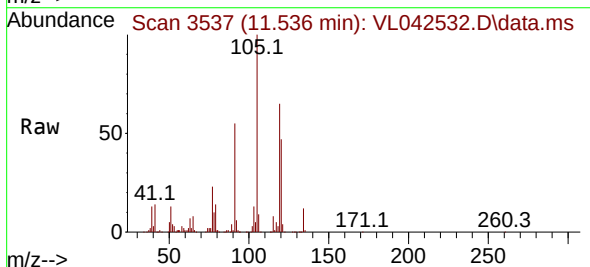
Ion Ratio Lower Upper

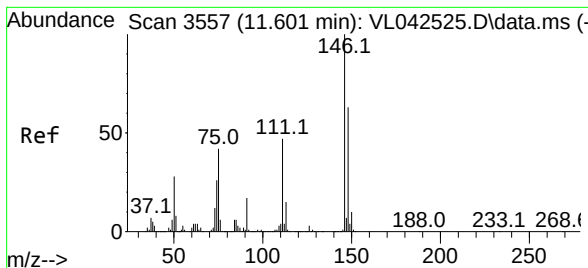
105 100

120 46.8 39.0 58.6

91 54.6 49.4 74.2

77 22.9 19.8 29.6





#75

1,3-Dichlorobenzene

Concen: 2.221 ppbv

RT: 11.604 min Scan# 3557

Delta R.T. 0.003 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

Instrument :

MSVOA_L

ClientSampleId :

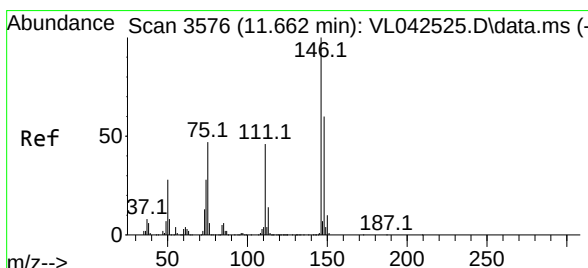
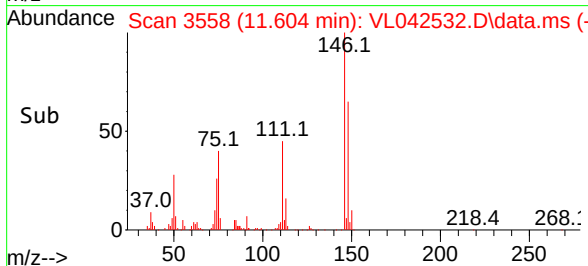
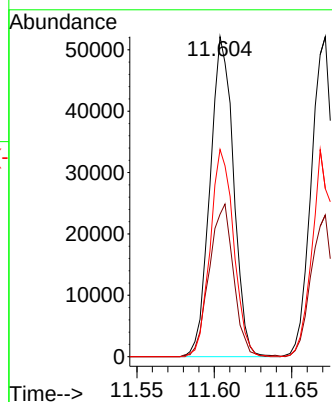
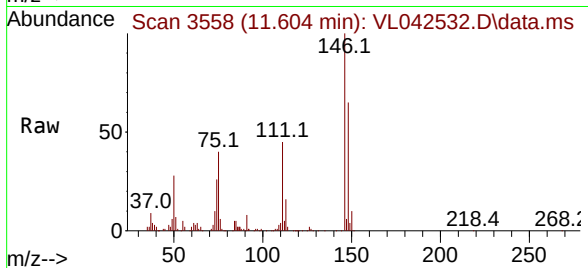
VSTDIC002

Tgt Ion:	146	Resp:	5494
Ion Ratio	Lower	Upper	
146	100		
111	49.2	23.6	71.0
148	65.0	31.6	94.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#76

1,4-Dichlorobenzene

Concen: 2.272 ppbv

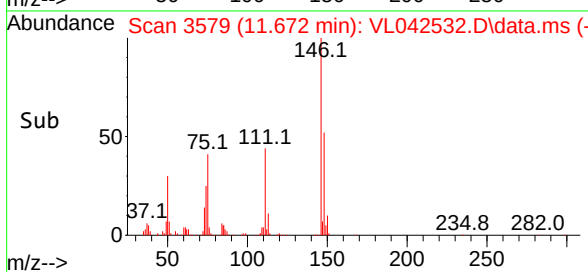
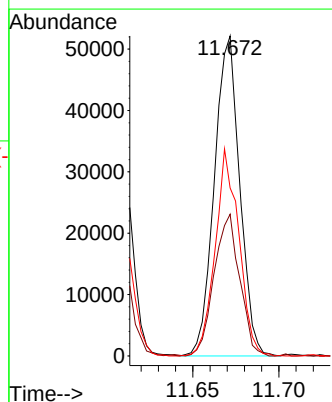
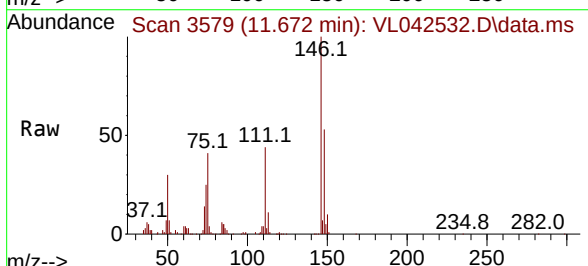
RT: 11.672 min Scan# 3579

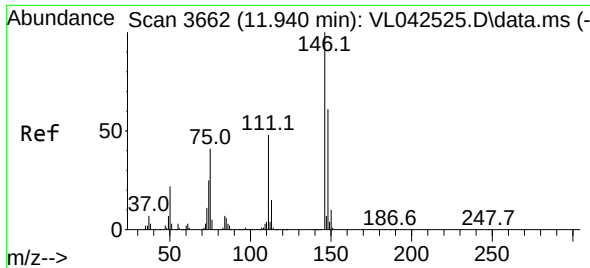
Delta R.T. 0.010 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

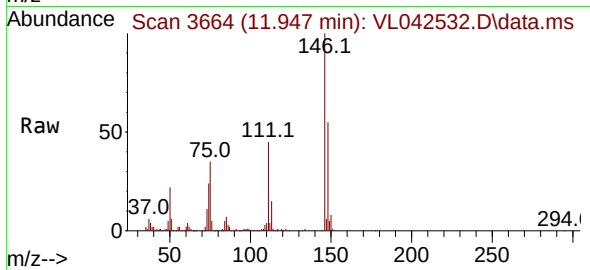
Tgt Ion:	146	Resp:	53480
Ion Ratio	Lower	Upper	
146	100		
111	44.8	23.4	70.3
148	60.3	31.6	94.7





#77
1,2-Dichlorobenzene
Concen: 2.317 ppbv
RT: 11.947 min Scan# 3664
Delta R.T. 0.006 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

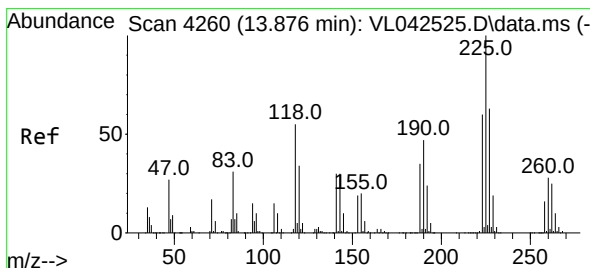
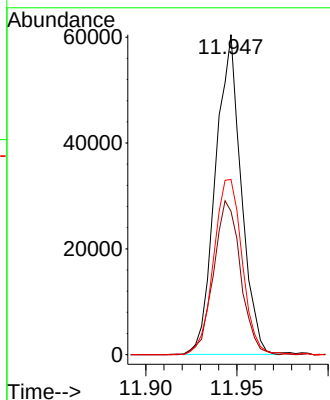
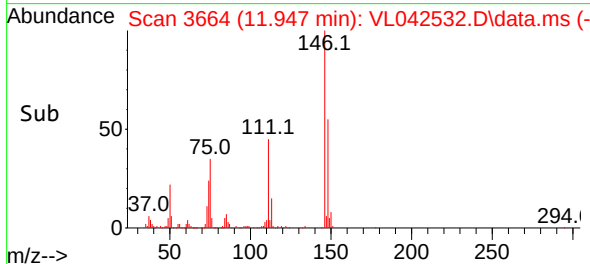
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



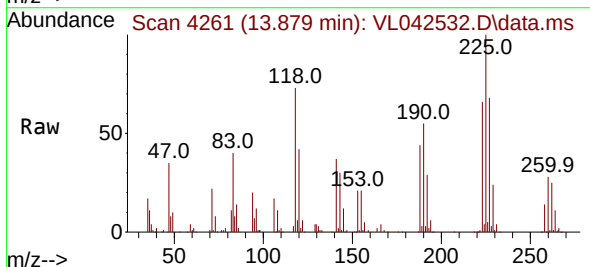
Tgt Ion:146 Resp: 59194
Ion Ratio Lower Upper
146 100
111 50.9 24.9 74.8
148 60.9 31.4 94.2

Manual Integrations
APPROVED

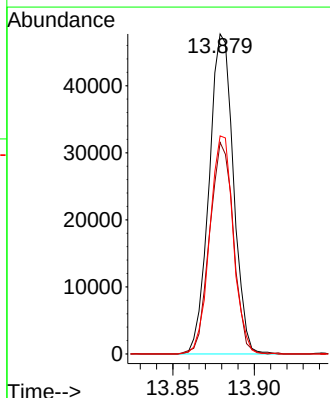
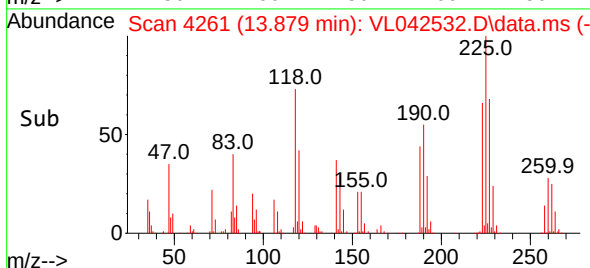
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

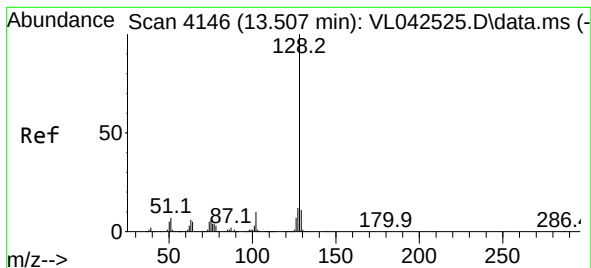


#78
Hexachloro-1,3-Butadiene
Concen: 2.258 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. 0.003 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58



Tgt Ion:225 Resp: 49456
Ion Ratio Lower Upper
225 100
223 64.6 50.8 76.2
227 65.9 50.5 75.7





#79

Naphthalene

Concen: 2.564 ppbv

RT: 13.513 min Scan# 4146

Delta R.T. 0.006 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

Instrument :

MSVOA_L

ClientSampleId :

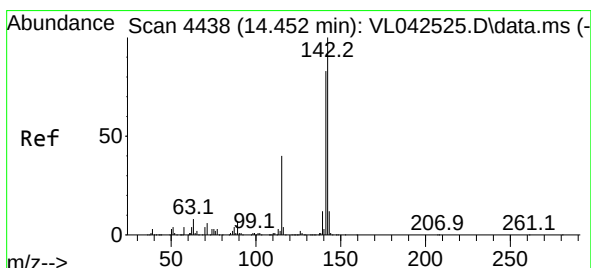
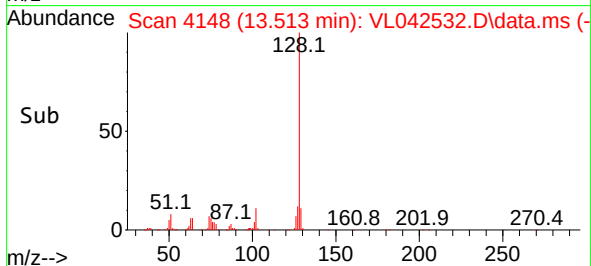
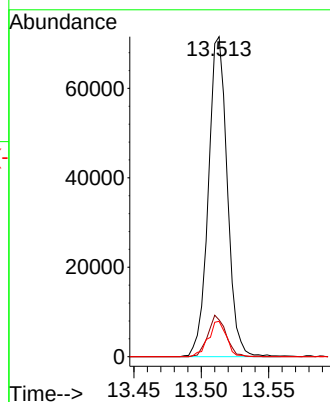
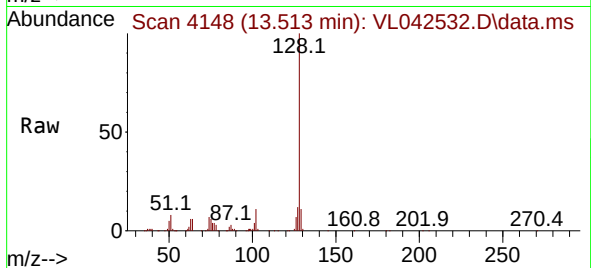
VSTDIC002

Tgt Ion:	128	Resp:	6990
Ion Ratio	Lower	Upper	
128	100		
127	11.5	9.8	14.8
129	11.0	8.6	12.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#80

Naphthalene,2-methyl-

Concen: 1.841 ppbv

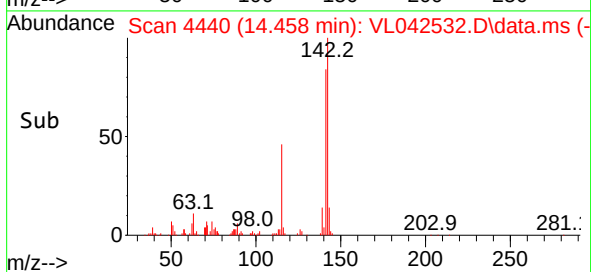
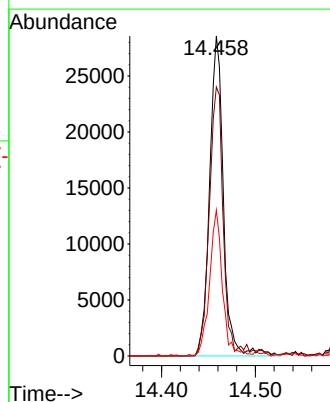
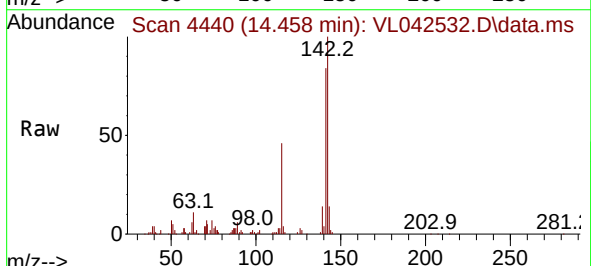
RT: 14.458 min Scan# 4440

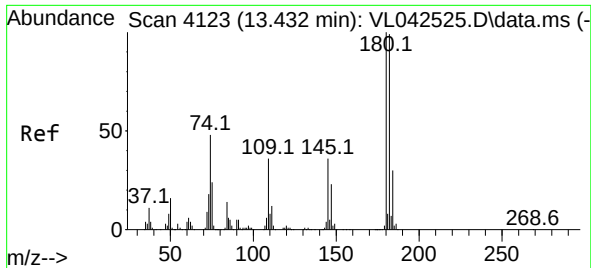
Delta R.T. 0.006 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

Tgt Ion:	142	Resp:	29203
Ion Ratio	Lower	Upper	
142	100		
141	88.4	66.8	100.2
115	43.9	33.0	49.6





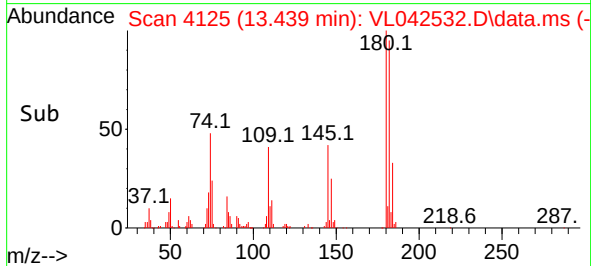
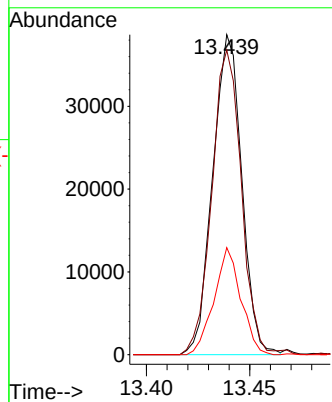
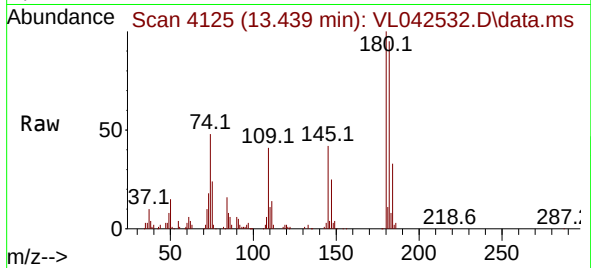
#81
 1,2,4-Trichlorobenzene
 Concen: 2.268 ppbv
 RT: 13.439 min Scan# 41
 Delta R.T. 0.006 min
 Lab File: VL042532.D
 Acq: 12 May 2025 12:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tgt Ion:180 Resp: 3775
 Ion Ratio Lower Upper
 180 100
 182 97.5 76.6 114.8
 184 31.0 24.6 36.8

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051225\
 Data File : VL042533.D
 Acq On : 12 May 2025 14:28
 Operator : SY/MD
 Sample : VSTDICC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 05/14/2025
 Supervised By : Mahesh Dadoda 05/14/2025

Quant Time: May 12 23:51:20 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M

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

QLast Update : Mon May 12 23:42:45 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	108558	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	309586	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	279828	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 246798 10.136 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.495	85	254959	14.463	ppbv	99
3) Chlorodifluoromethane	1.473	51	266796	14.850	ppbv	98
4) Chloromethane	1.531	50	101130	14.056	ppbv	99
5) Vinyl Chloride	1.576	62	98136	13.331	ppbv	97
6) Bromomethane	1.664	94	50426	14.424	ppbv	98
7) Chloroethane	1.703	64	38860	13.411	ppbv	99
8) Dichlorotetrafluoroethane	1.550	85	214140	14.118	ppbv	98
9) Propene	1.479	41	98085	25.137	ppbv #	1
10) Heptane	4.968	43	272741	18.334	ppbv	98
11) Trichlorofluoromethane	1.874	101	245994	14.507	ppbv	94
12) 1,1,2-Trichlorotrifluo...	2.136	101	193238	14.189	ppbv	99
13) Ethanol	1.719	45	11869	11.144	ppbv	99
14) Bromoethene	1.780	108	75429	15.192	ppbv	96
15) Acetone	1.832	43	213564	12.311	ppbv	99
16) 1,3-Butadiene	1.605	39	112792	14.460	ppbv	99
17) tert-Butyl alcohol	2.036	59	230498	14.380	ppbv	99
18) 1,1-Dichloroethene	2.029	96	86943	14.567	ppbv	98
19) Isopropyl Alcohol	1.884	45	132417	14.052	ppbv #	1
20) Methylene Chloride	2.059	84	74621	12.354	ppbv	98
21) Allyl Chloride	2.091	41	172596	15.028	ppbv	100
22) trans-1,2-Dichloroethene	2.337	96	97705	13.994	ppbv	98
23) Vinyl Acetate	2.460	43	285911	15.744	ppbv	97
24) 1,1-Dichloroethane	2.405	63	196043	14.512	ppbv	98
25) Ethyl Acetate	2.832	43	503336	16.525	ppbv	100
26) Hexane	2.819	57	221600	17.721	ppbv	96
27) Carbon Disulfide	2.146	76	244368	15.138	ppbv	99
28) Methyl tert-Butyl Ether	2.437	73	104072	14.980	ppbv	99
29) Chloroform	2.845	83	373949	14.419	ppbv	97
30) Cyclohexane	3.852	84	188093	18.321	ppbv	99
31) cis-1,2-Dichloroethene	2.716	61	231689	16.408	ppbv	96
32) 1,1,1-Trichloroethane	3.363	97	393153	15.027	ppbv	99
34) 2-Butanone	2.554	43	326787	16.014	ppbv	99
35) Carbon Tetrachloride	3.758	117	419052	15.056	ppbv	99
36) Benzene	3.651	78	458244	16.702	ppbv	96
37) 1,2-Dichloroethane	3.214	62	296168	15.133	ppbv	99
38) Trichloroethene	4.544	130	190538	16.255	ppbv	99
39) 1,2-Dichloropropane	4.308	63	162049	15.867	ppbv	96
40) 1,4-Dioxane	4.580	88	69978m	17.187	ppbv	
41) Tetrahydrofuran	3.049	42	167734	19.057	ppbv	98
42) Bromodichloromethane	4.483	83	410197	15.734	ppbv	95
43) Methyl Methacrylate	4.874	69	175429	19.145	ppbv	100
44) 2,2,4-Trimethylpentane	4.632	57	753360	17.485	ppbv	99
45) t-1,3-Dichloropropene	6.409	75	225163	19.247	ppbv	93

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051225\
 Data File : VL042533.D
 Acq On : 12 May 2025 14:28
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025

Quant Time: May 12 23:51:20 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M

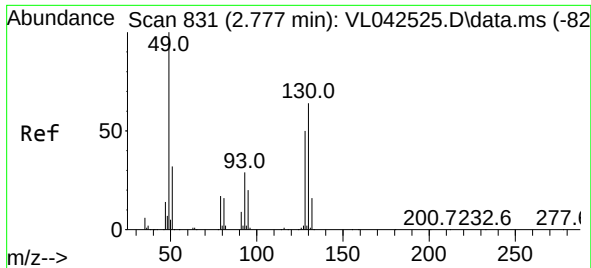
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Mon May 12 23:42:45 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	267742	18.975	ppbv	96
47) 1,1,2-Trichloroethane	6.574	97	183088	15.225	ppbv	96
48) Dibromochloromethane	7.383	129	334374	16.641	ppbv	98
49) Bromoform	9.480	173	279015	16.922	ppbv	99
50) 4-Methyl-2-Pentanone	5.745	43	445638	18.621	ppbv	100
51) 2-Hexanone	7.431	43	367397	20.654	ppbv #	97
52) Tetrachloroethene	8.221	164	165300	15.639	ppbv	93
53) Toluene	6.927	91	522877	19.420	ppbv	100
54) 1,2-Dibromoethane	7.648	107	290801	16.547	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.920	131	253110	14.589	ppbv	98
57) Chlorobenzene	8.917	112	423059	15.057	ppbv	99
58) Ethyl Benzene	9.351	91	757160	19.852	ppbv	95
59) m/p-Xylene	9.548	91	1251252m	36.878	ppbv	
60) o-Xylene	9.962	91	618234	18.698	ppbv	99
61) Styrene	9.869	104	269609	22.137	ppbv	97
62) Isopropylbenzene	10.535	105	902388	18.112	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.959	83	380582	14.351	ppbv	99
64) n-propylbenzene	10.985	120	230244	18.238	ppbv	99
65) tert-Butylbenzene	11.529	119	827491	18.087	ppbv	100
66) Benzyl Chloride	11.613	91	106741	17.633	ppbv #	98
67) sec-Butylbenzene	11.765	105	1120950	17.089	ppbv	99
69) p-Isopropyltoluene	11.924	119	983988	18.247	ppbv	99
70) n-Butylbenzene	12.280	91	974868	18.295	ppbv	100
71) 2-Chlorotoluene	10.898	91	703053	18.636	ppbv	99
72) 4-Ethyltoluene	11.124	105	777799	18.954	ppbv	99
73) 1,3,5-Trimethylbenzene	11.202	105	654009	18.296	ppbv	97
74) 1,2,4-Trimethylbenzene	11.535	105	725454	16.496	ppbv	98
75) 1,3-Dichlorobenzene	11.607	146	432126	15.690	ppbv	99
76) 1,4-Dichlorobenzene	11.668	146	429425	16.387	ppbv	100
77) 1,2-Dichlorobenzene	11.947	146	412453	14.497	ppbv	99
78) Hexachloro-1,3-Butadiene	13.879	225	339749	13.928	ppbv	100
79) Naphthalene	13.510	128	708419	23.333	ppbv	98
80) Naphthalene,2-methyl-	14.455	142	506723	28.683	ppbv	99
81) 1,2,4-Trichlorobenzene	13.439	180	368964	19.904	ppbv	100

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



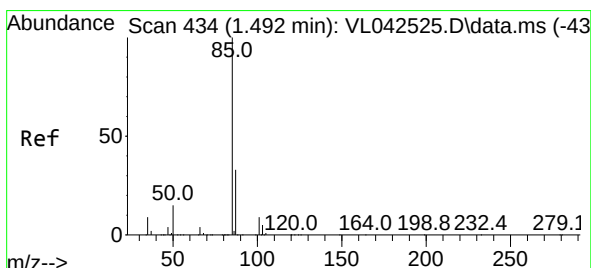
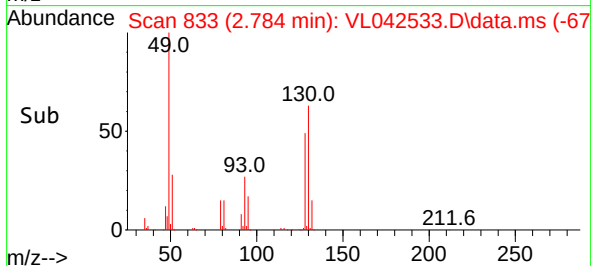
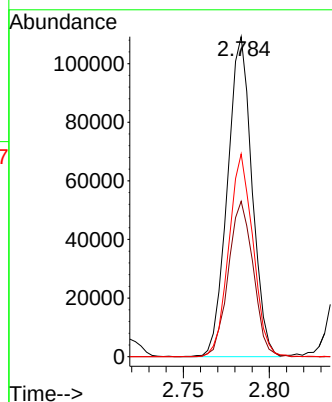
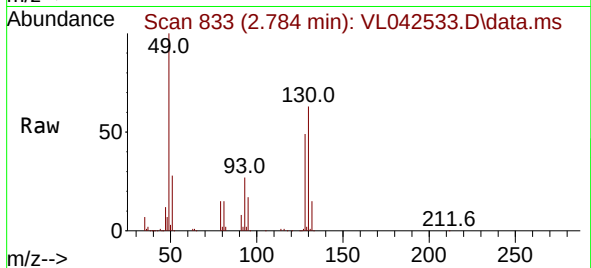
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Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 811
Delta R.T. 0.007 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 49 Resp: 108558
Ion Ratio Lower Upper
49 100
128 49.0 24.9 74.6
130 62.4 32.5 97.5

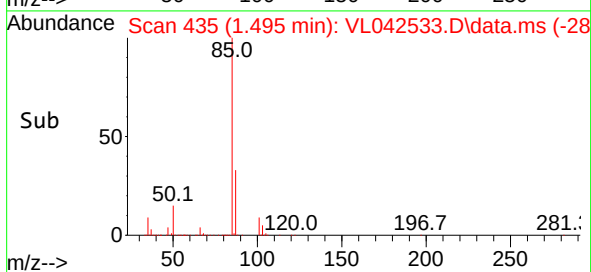
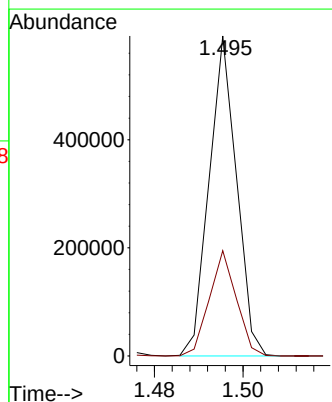
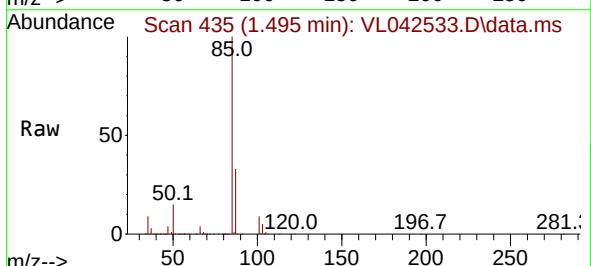
Manual Integrations
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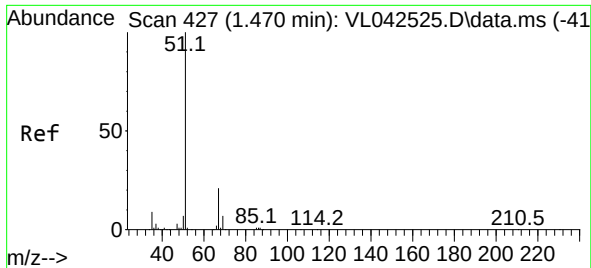
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#2
Dichlorodifluoromethane
Concen: 14.463 ppbv
RT: 1.495 min Scan# 435
Delta R.T. 0.003 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

Tgt Ion: 85 Resp: 254959
Ion Ratio Lower Upper
85 100
87 32.9 26.8 40.2





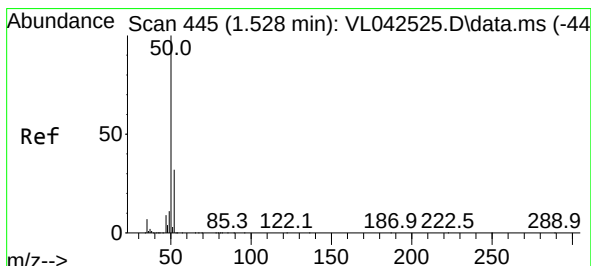
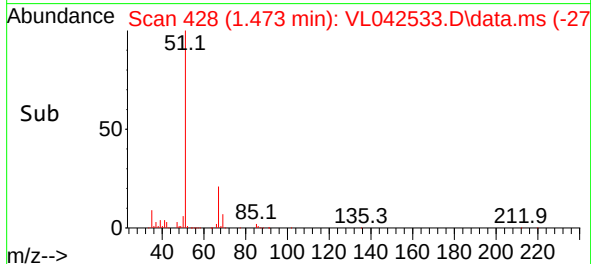
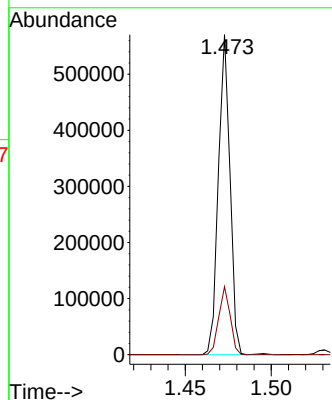
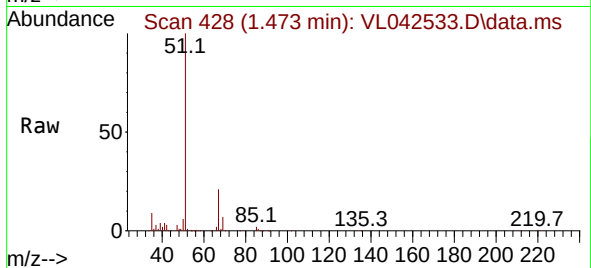
#3
Chlorodifluoromethane
Concen: 14.850 ppbv
RT: 1.473 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 51 Resp: 266790
Ion Ratio Lower Upper
51 100
67 21.0 17.4 26.0

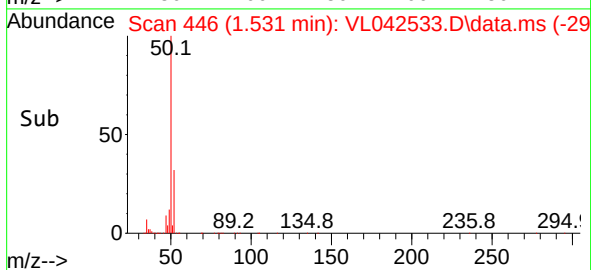
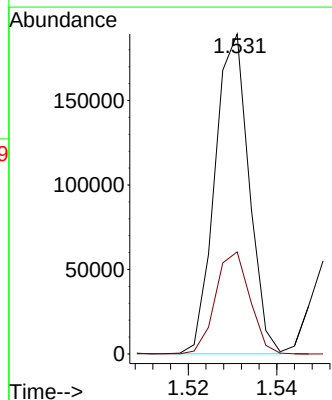
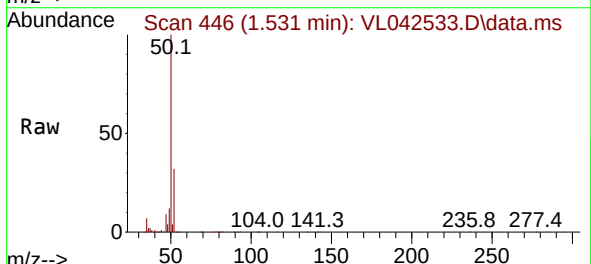
Manual Integrations
APPROVED

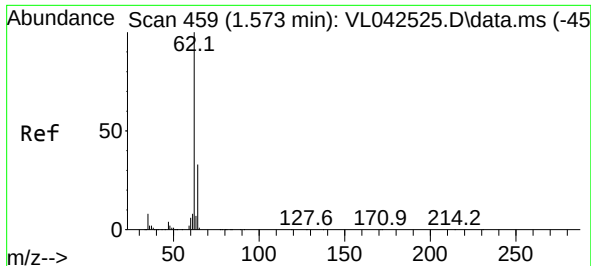
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#4
Chloromethane
Concen: 14.056 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.003 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

Tgt Ion: 50 Resp: 101130
Ion Ratio Lower Upper
50 100
52 31.9 25.9 38.9





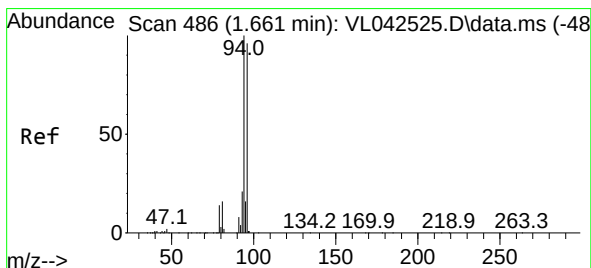
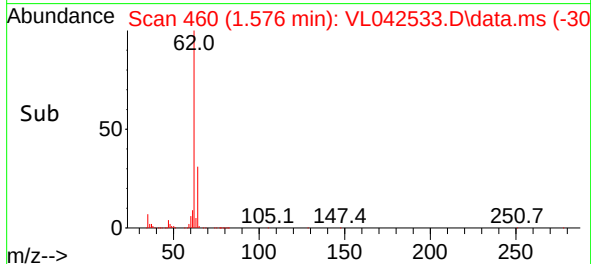
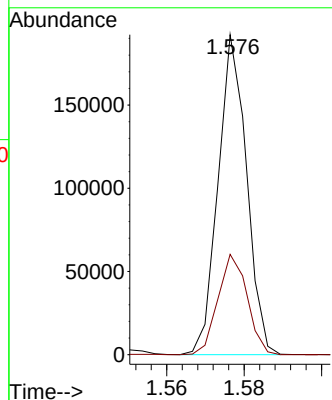
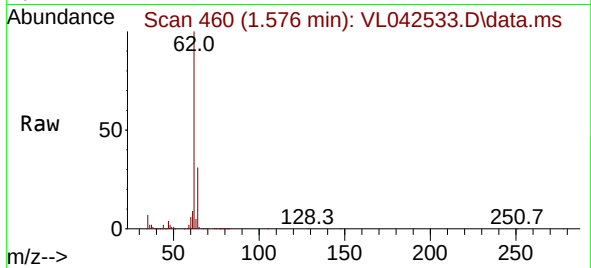
#5
 Vinyl Chloride
 Concen: 13.331 ppbv
 RT: 1.576 min Scan# 459
 Delta R.T. 0.003 min
 Lab File: VL042533.D
 Acq: 12 May 2025 14:28

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion: 62 Resp: 98130
 Ion Ratio Lower Upper
 62 100
 64 31.4 26.5 39.7

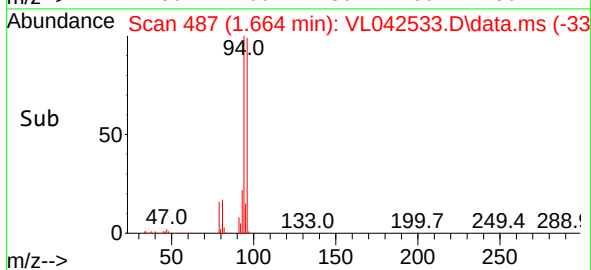
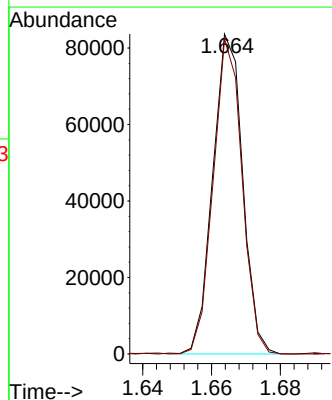
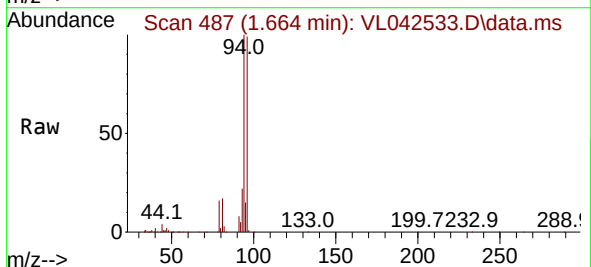
Manual Integrations
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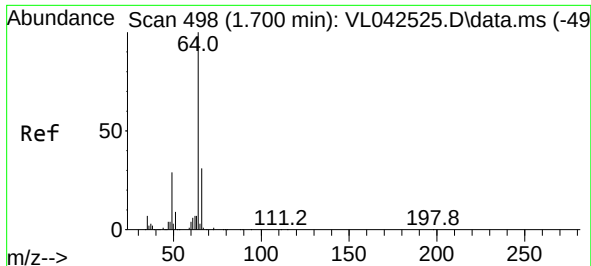
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025



#6
 Bromomethane
 Concen: 14.424 ppbv
 RT: 1.664 min Scan# 487
 Delta R.T. 0.003 min
 Lab File: VL042533.D
 Acq: 12 May 2025 14:28

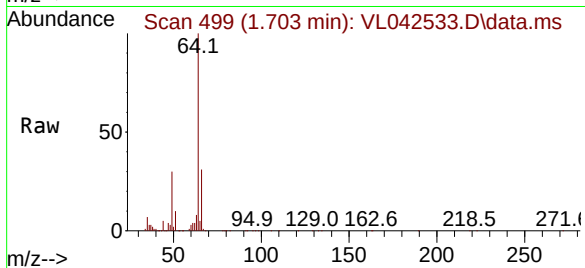
Tgt Ion: 94 Resp: 50426
 Ion Ratio Lower Upper
 94 100
 96 98.5 76.9 115.3





#7
Chloroethane
Concen: 13.411 ppbv
RT: 1.703 min Scan# 499
Delta R.T. 0.003 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

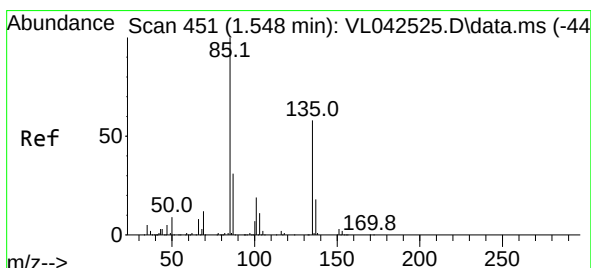
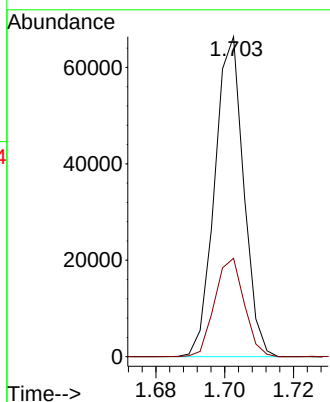
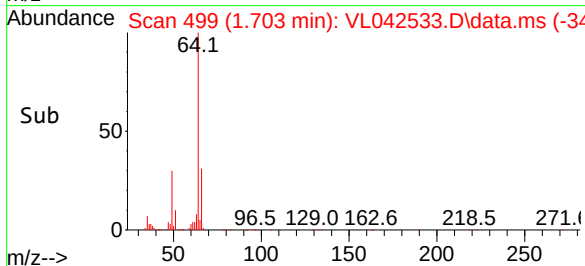
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion: 64 Resp: 38860
Ion Ratio Lower Upper
64 100
66 30.7 25.1 37.7

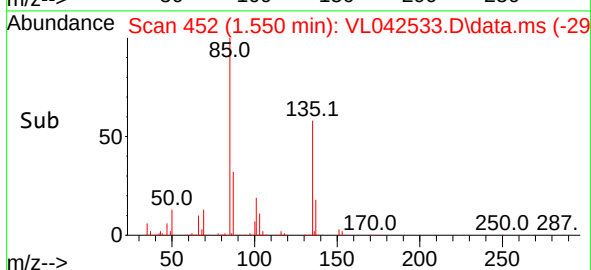
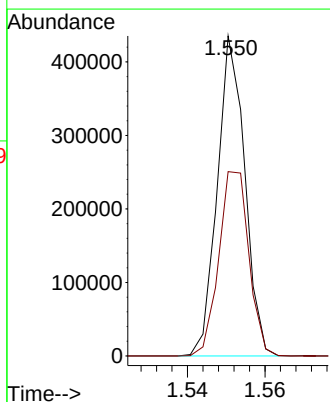
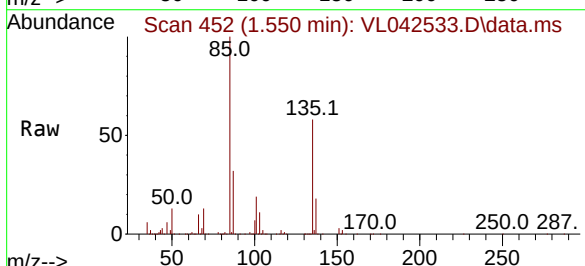
Manual Integrations
APPROVED

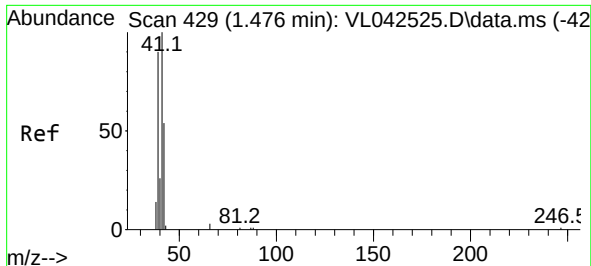
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#8
Dichlorotetrafluoroethane
Concen: 14.118 ppbv
RT: 1.550 min Scan# 452
Delta R.T. 0.003 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

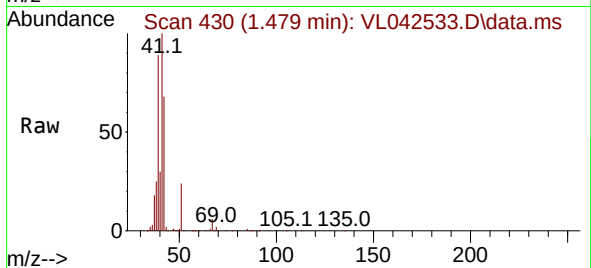
Tgt Ion: 85 Resp: 214140
Ion Ratio Lower Upper
85 100
135 63.4 51.8 77.8





#9
 Propene
 Concen: 25.137 ppbv
 RT: 1.479 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL042533.D
 Acq: 12 May 2025 14:28

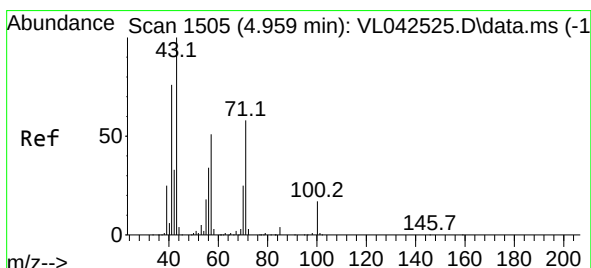
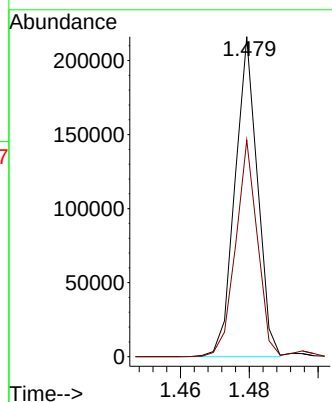
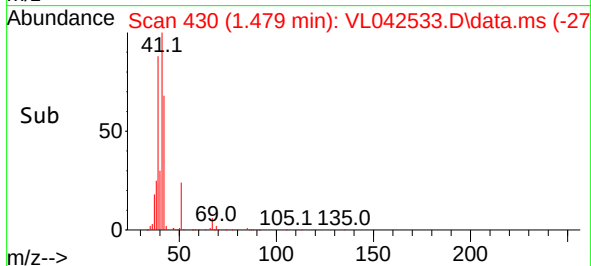
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



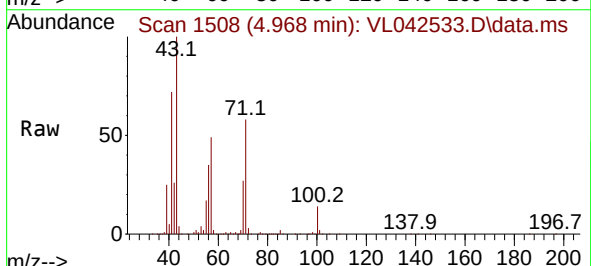
Tgt Ion: 41 Resp: 98085
 Ion Ratio Lower Upper
 41 100
 42 67.7 4.1 6.1

Manual Integrations
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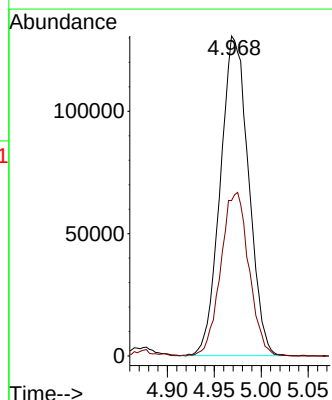
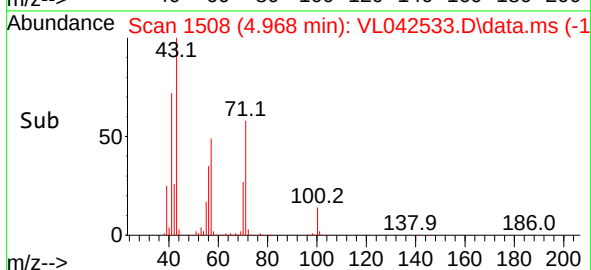
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025

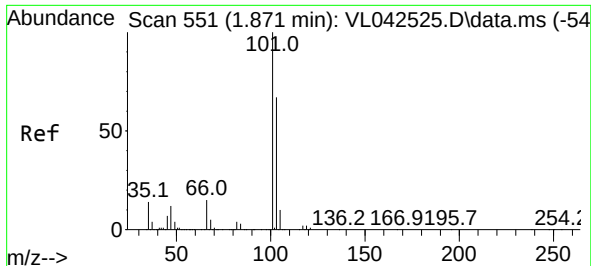


#10
 Heptane
 Concen: 18.334 ppbv
 RT: 4.968 min Scan# 1508
 Delta R.T. 0.009 min
 Lab File: VL042533.D
 Acq: 12 May 2025 14:28



Tgt Ion: 43 Resp: 272741
 Ion Ratio Lower Upper
 43 100
 57 51.1 42.1 63.1





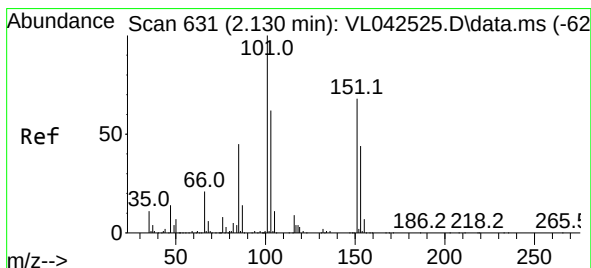
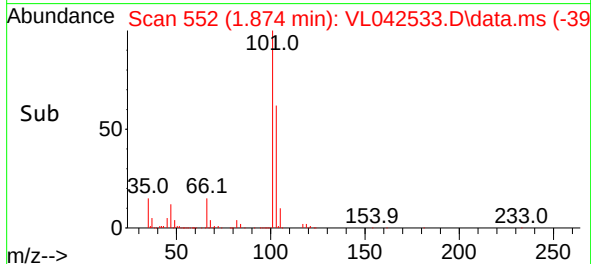
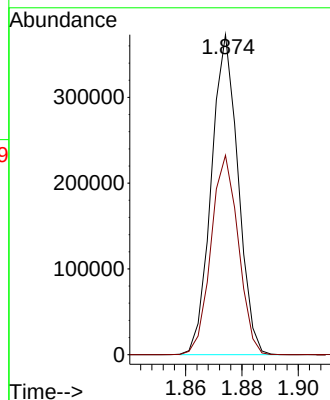
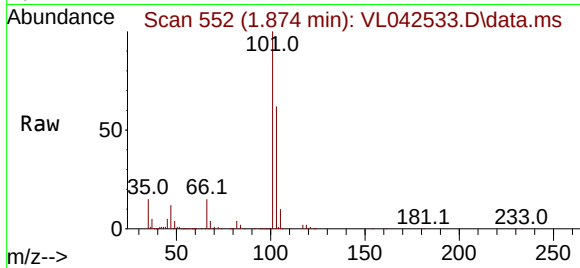
#11
Trichlorofluoromethane
Concen: 14.507 ppbv
RT: 1.874 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion:101 Resp: 245994
Ion Ratio Lower Upper
101 100
103 62.3 53.8 80.6

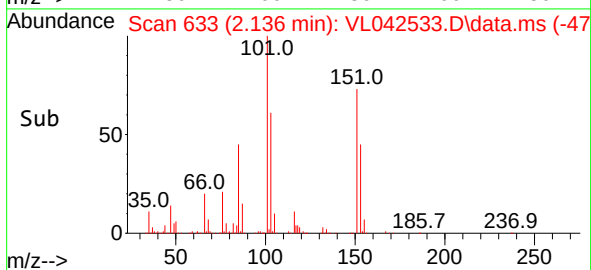
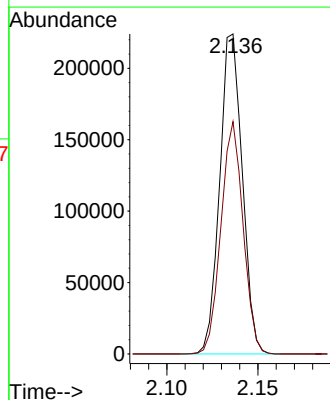
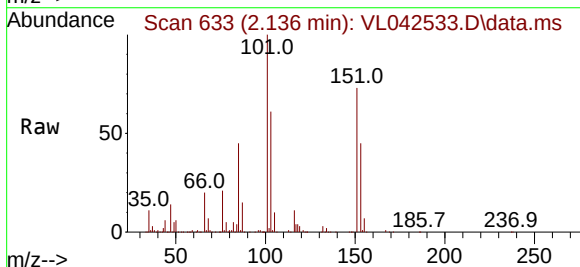
Manual Integrations
APPROVED

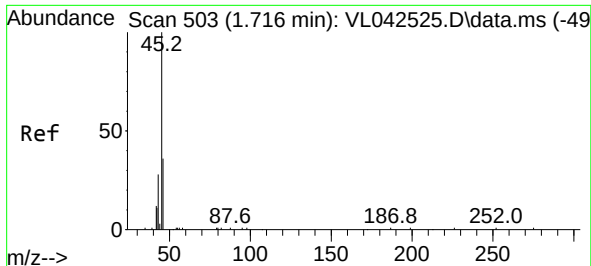
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#12
1,1,2-Trichlorotrifluoroethane
Concen: 14.189 ppbv
RT: 2.136 min Scan# 633
Delta R.T. 0.006 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

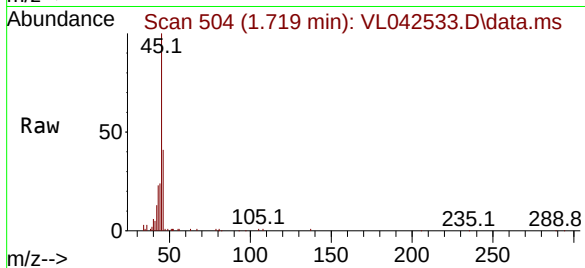
Tgt Ion:101 Resp: 193238
Ion Ratio Lower Upper
101 100
151 71.1 57.8 86.8





#13
Ethanol
Concen: 11.144 ppbv
RT: 1.719 min Scan# 503
Delta R.T. 0.003 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

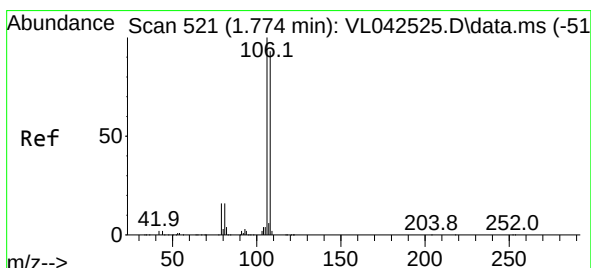
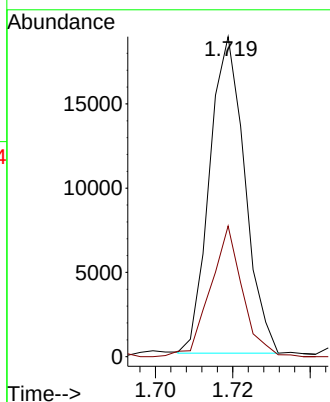
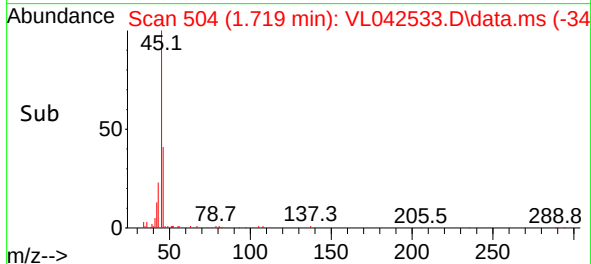
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



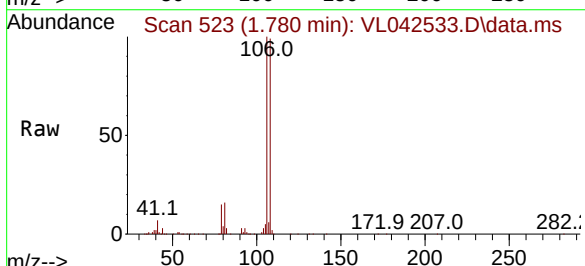
Tgt Ion: 45 Resp: 11869
Ion Ratio Lower Upper
45 100
46 37.6 14.8 59.4

Manual Integrations
APPROVED

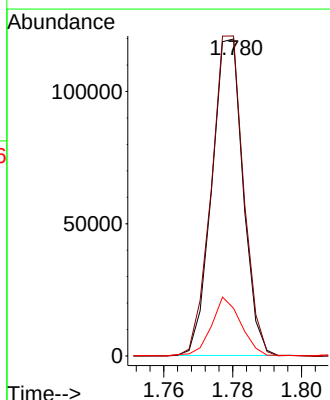
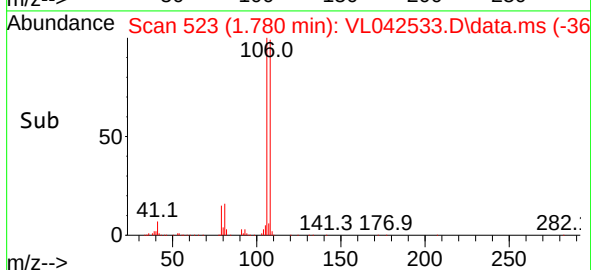
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

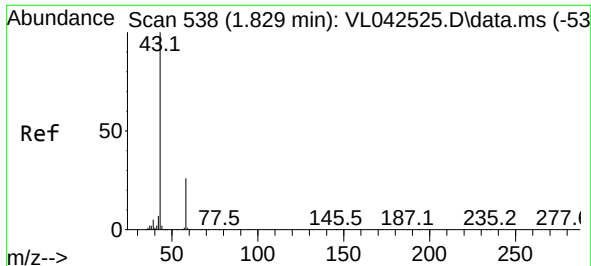


#14
Bromoethene
Concen: 15.192 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.006 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28



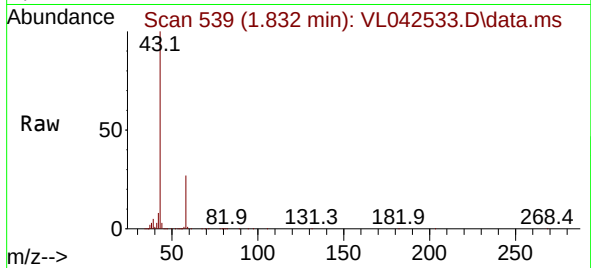
Tgt Ion:108 Resp: 75429
Ion Ratio Lower Upper
108 100
106 104.0 87.4 131.2
79 18.7 15.1 22.7





#15
Acetone
Concen: 12.311 ppbv
RT: 1.832 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

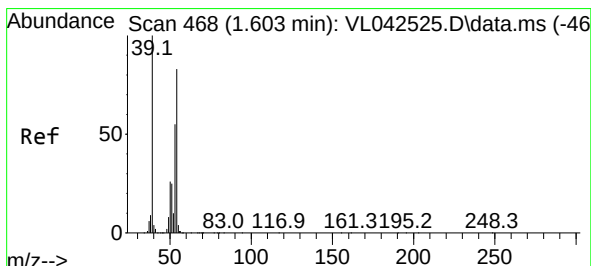
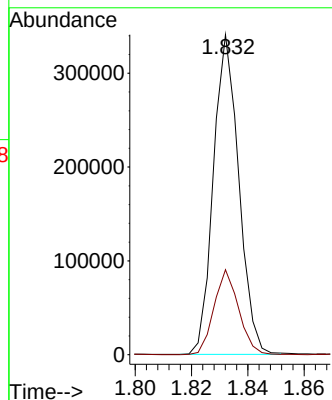
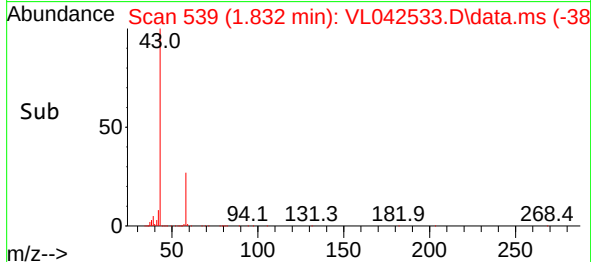
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



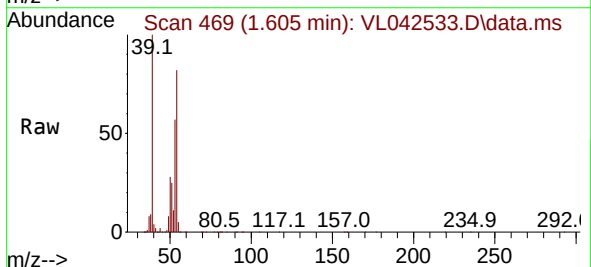
Tgt Ion: 43 Resp: 213564
Ion Ratio Lower Upper
43 100
58 26.0 21.3 31.9

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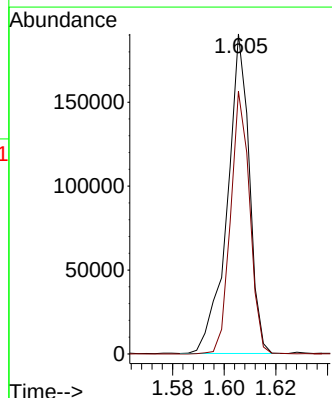
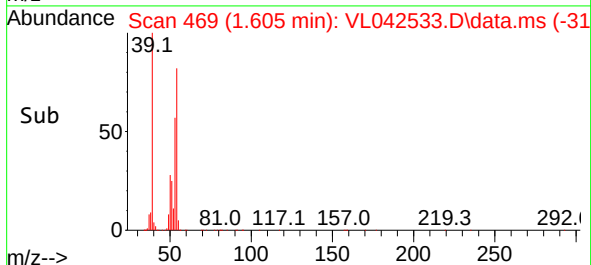
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

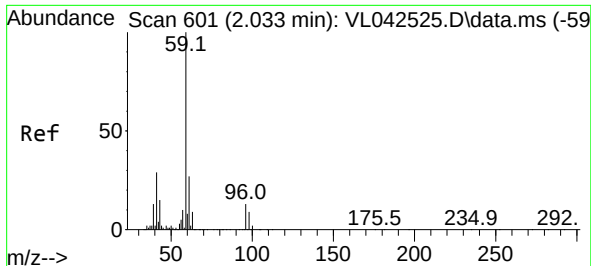


#16
1,3-Butadiene
Concen: 14.460 ppbv
RT: 1.605 min Scan# 469
Delta R.T. 0.003 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28



Tgt Ion: 39 Resp: 112792
Ion Ratio Lower Upper
39 100
54 71.3 57.8 86.6





#17

tert-Butyl alcohol

Concen: 14.380 ppbv

RT: 2.036 min Scan# 601

Delta R.T. 0.003 min

Lab File: VL042533.D

Acq: 12 May 2025 14:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 59 Resp: 230498

Ion Ratio Lower Upper

59 100

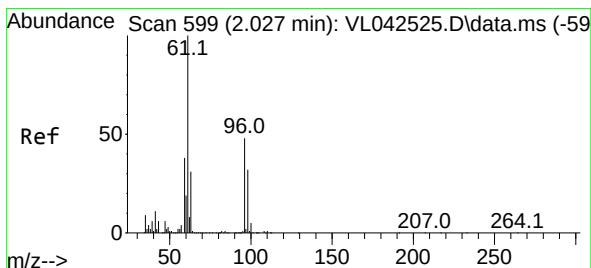
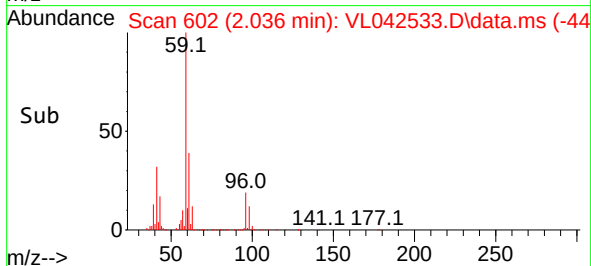
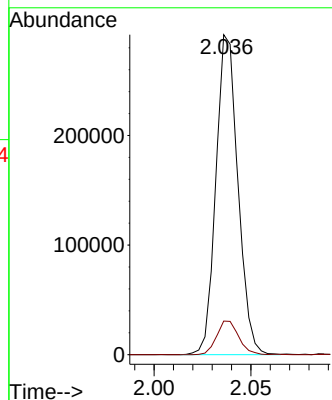
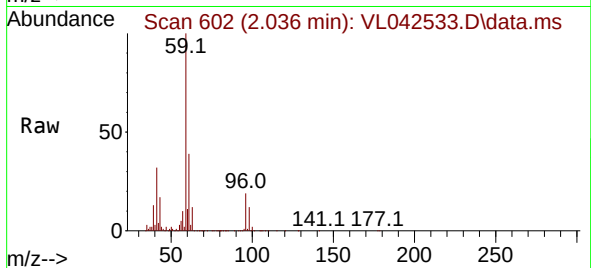
57 10.7 8.2 12.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/14/2025

Supervised By :Mahesh Dadoda 05/14/2025



#18

1,1-Dichloroethene

Concen: 14.567 ppbv

RT: 2.029 min Scan# 600

Delta R.T. 0.003 min

Lab File: VL042533.D

Acq: 12 May 2025 14:28

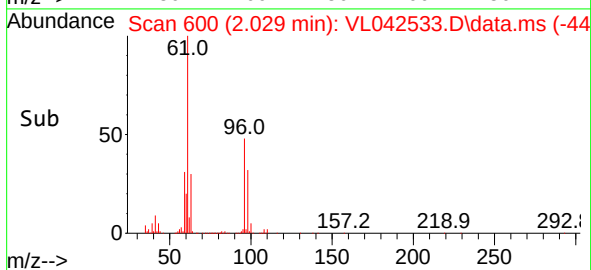
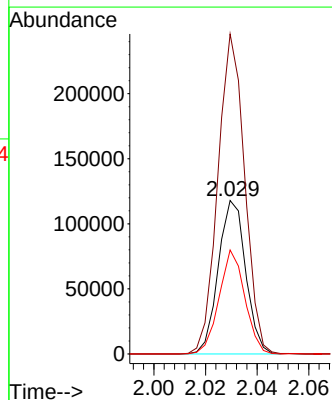
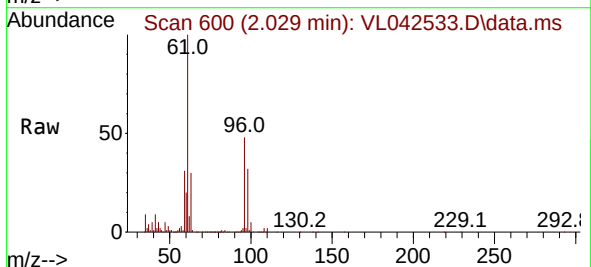
Tgt Ion: 96 Resp: 86943

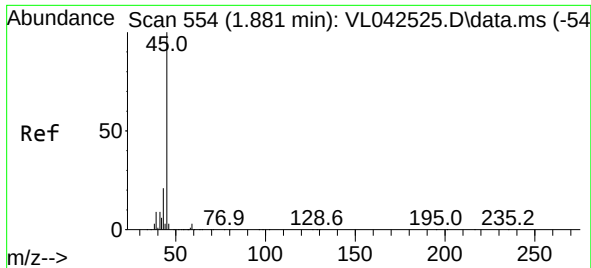
Ion Ratio Lower Upper

96 100

61 208.5 165.0 247.4

98 67.7 52.6 79.0





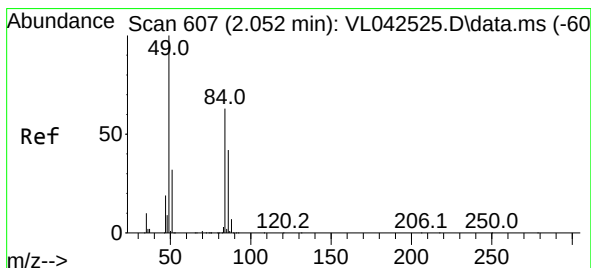
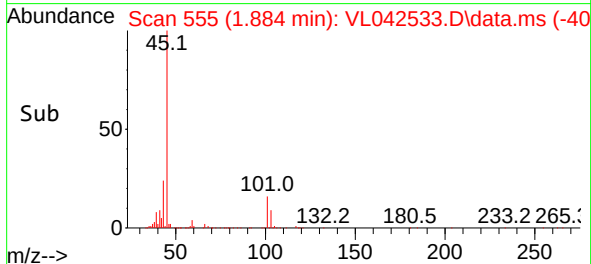
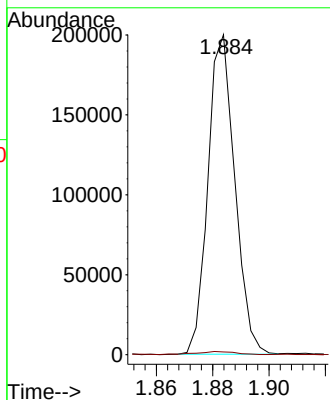
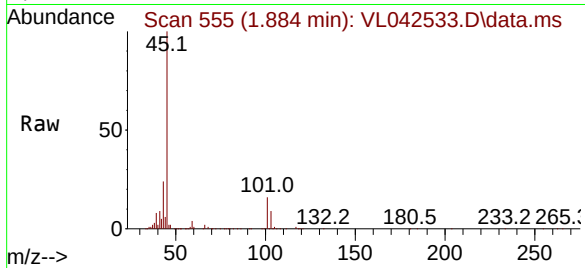
#19
Isopropyl Alcohol
Concen: 14.052 ppbv
RT: 1.884 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 45 Resp: 13241
Ion Ratio Lower Upper
45 100
58 41.9 1.5 2.3

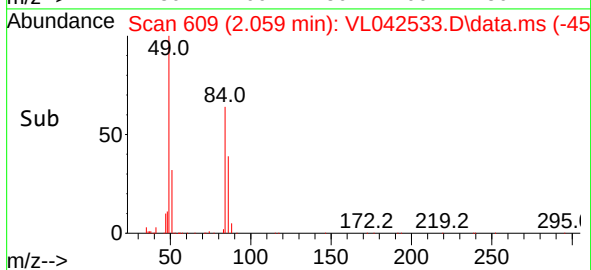
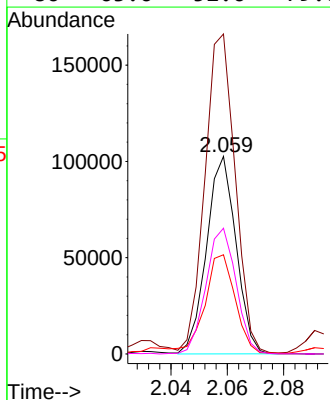
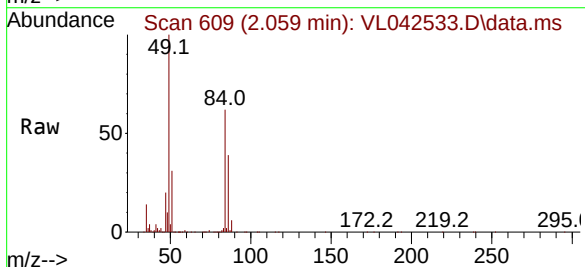
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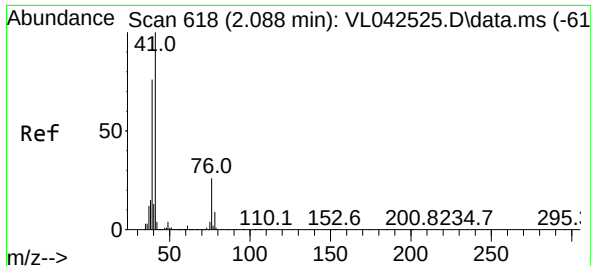
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#20
Methylene Chloride
Concen: 12.354 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.006 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

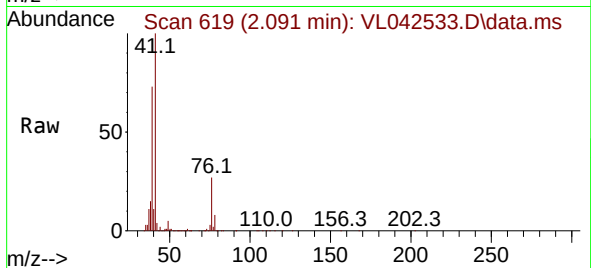
Tgt Ion: 84 Resp: 74621
Ion Ratio Lower Upper
84 100
49 161.6 128.2 192.4
51 49.9 41.7 62.5
86 63.6 52.6 79.0





#21
 Allyl Chloride
 Concen: 15.028 ppbv
 RT: 2.091 min Scan# 618
 Delta R.T. 0.003 min
 Lab File: VL042533.D
 Acq: 12 May 2025 14:28

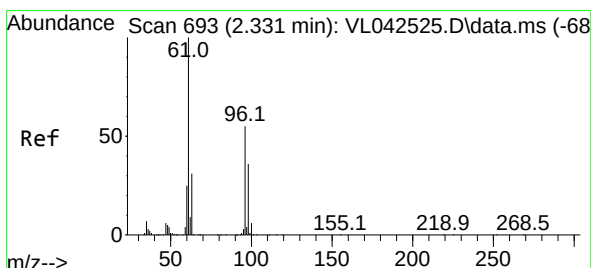
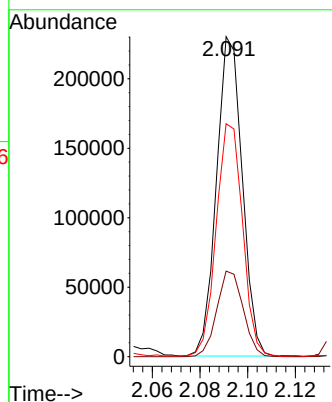
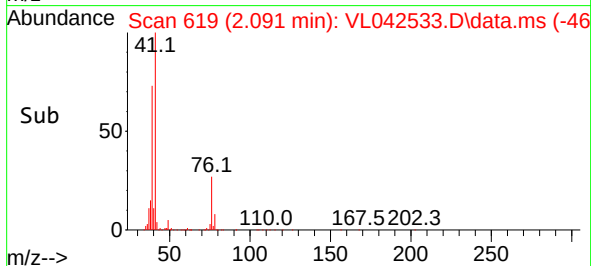
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



Tgt Ion: 41 Resp: 172590
 Ion Ratio Lower Upper
 41 100
 76 27.4 22.0 33.0
 39 74.2 59.5 89.3

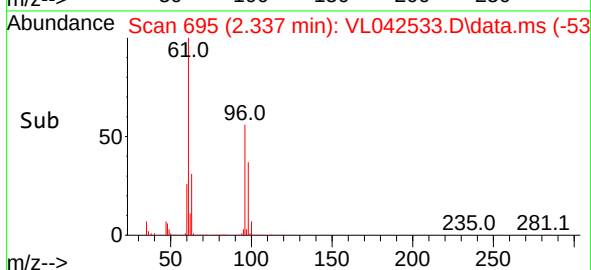
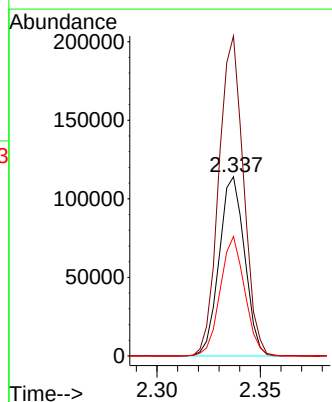
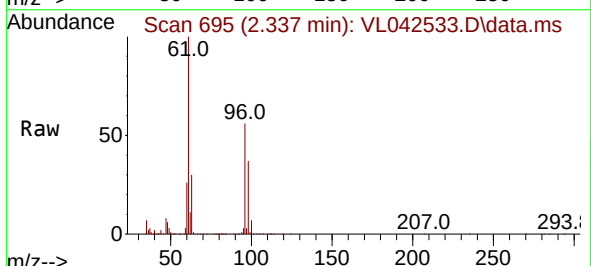
Manual Integrations
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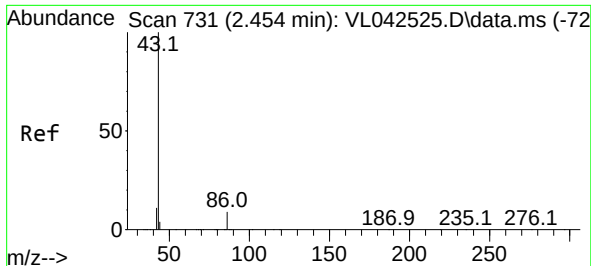
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025



#22
 trans-1,2-Dichloroethene
 Concen: 13.994 ppbv
 RT: 2.337 min Scan# 695
 Delta R.T. 0.006 min
 Lab File: VL042533.D
 Acq: 12 May 2025 14:28

Tgt Ion: 96 Resp: 97705
 Ion Ratio Lower Upper
 96 100
 61 178.5 145.9 218.9
 98 66.7 52.2 78.4





#23
 Vinyl Acetate
 Concen: 15.744 ppbv
 RT: 2.460 min Scan# 716
 Delta R.T. 0.006 min
 Lab File: VL042533.D
 Acq: 12 May 2025 14:28

Instrument :

MSVOA_L

ClientSampleId :

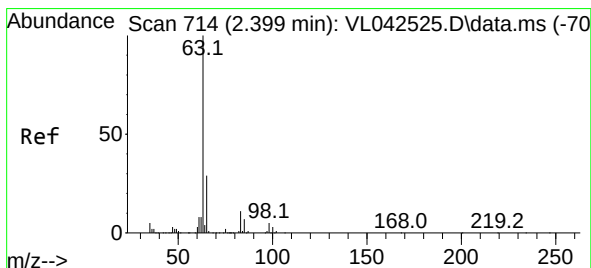
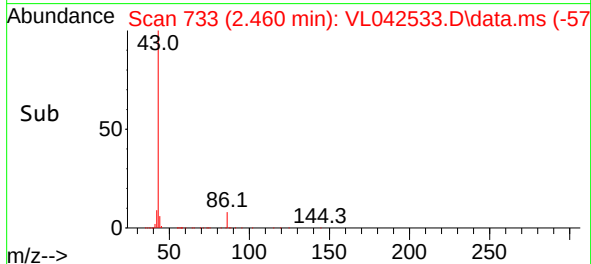
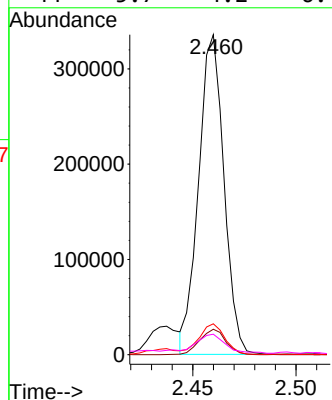
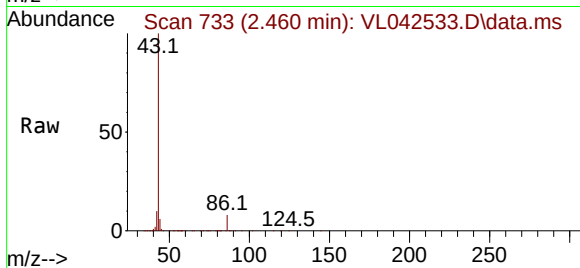
VSTDICC015

Tgt Ion: 43 Resp: 28591
 Ion Ratio Lower Upper
 43 100
 86 8.0 6.8 10.2
 42 9.5 8.8 13.2
 44 5.7 4.2 6.4

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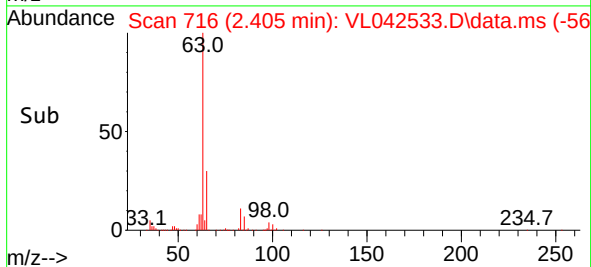
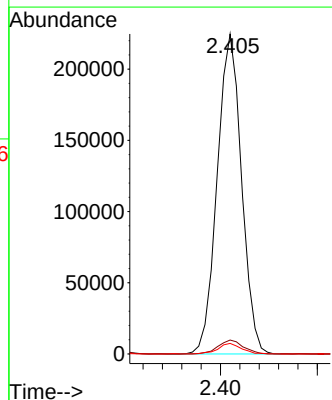
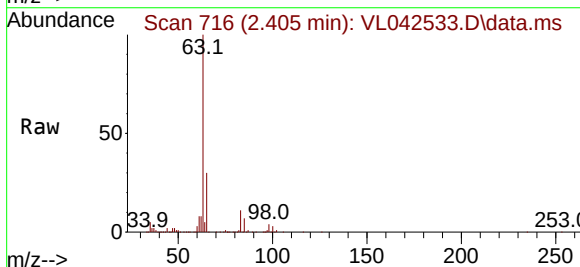
APPROVED

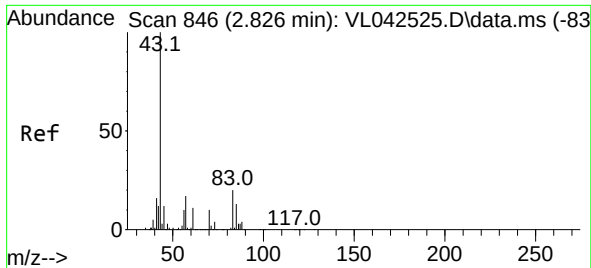
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025



#24
 1,1-Dichloroethane
 Concen: 14.512 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. 0.006 min
 Lab File: VL042533.D
 Acq: 12 May 2025 14:28

Tgt Ion: 63 Resp: 196043
 Ion Ratio Lower Upper
 63 100
 98 4.4 2.6 8.0
 100 3.3 1.4 4.2





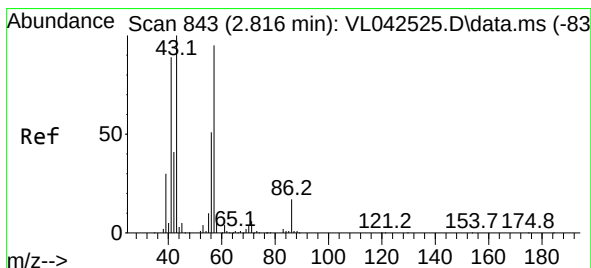
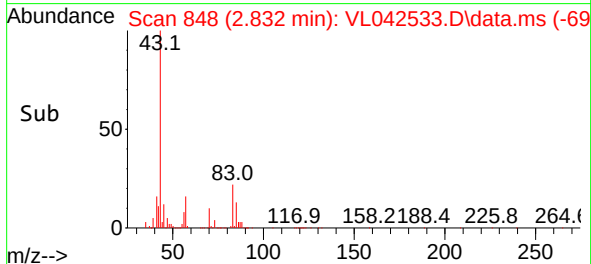
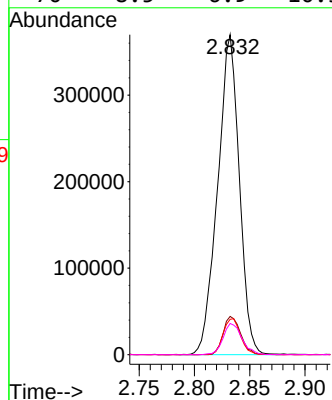
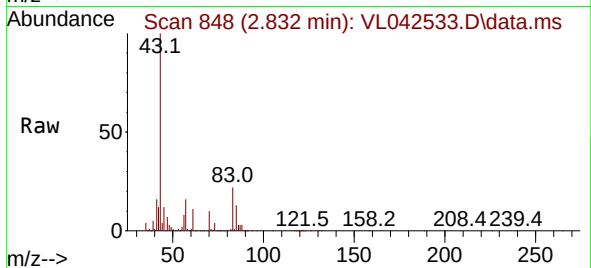
#25
Ethyl Acetate
Concen: 16.525 ppbv
RT: 2.832 min Scan# 846
Delta R.T. 0.006 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 43 Resp: 503330
Ion Ratio Lower Upper
43 100
45 9.8 7.9 11.9
61 9.1 7.1 10.7
70 8.5 6.9 10.3

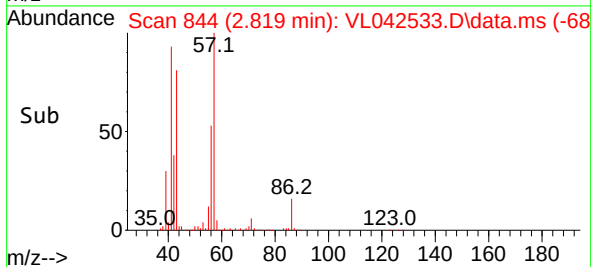
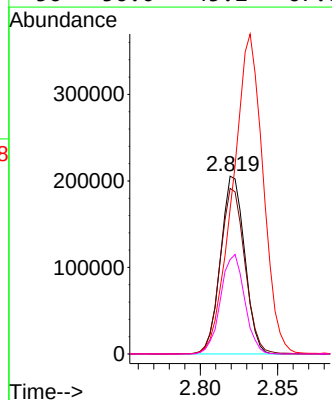
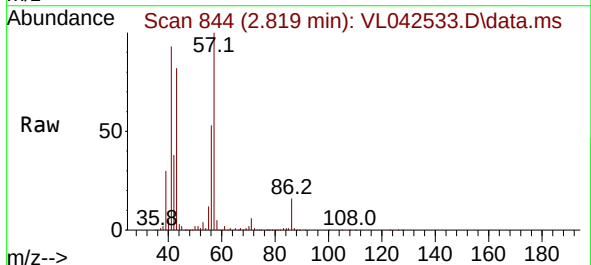
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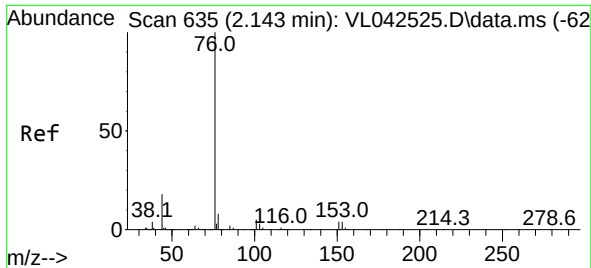
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#26
Hexane
Concen: 17.721 ppbv
RT: 2.819 min Scan# 844
Delta R.T. 0.003 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

Tgt Ion: 57 Resp: 221600
Ion Ratio Lower Upper
57 100
41 96.6 76.1 114.1
43 227.5 188.9 283.3
56 56.0 45.2 67.8





#27

Carbon Disulfide

Concen: 15.138 ppbv

RT: 2.146 min Scan# 61

Delta R.T. 0.003 min

Lab File: VL042533.D

Acq: 12 May 2025 14:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 76 Resp: 244368

Ion Ratio Lower Upper

76 100

44 21.3 17.1 25.7

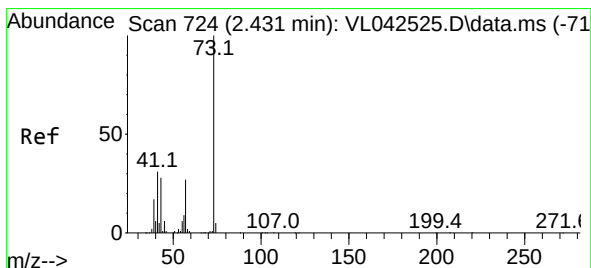
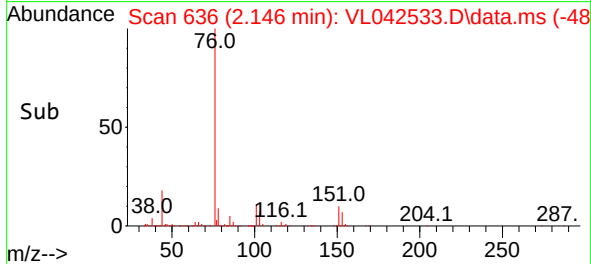
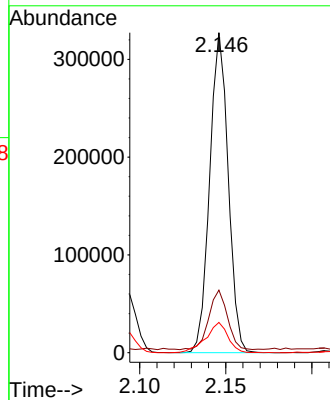
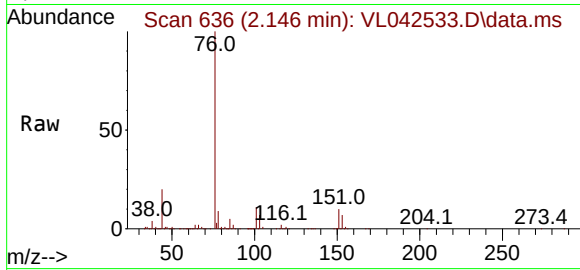
78 11.3 8.6 12.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/14/2025

Supervised By :Mahesh Dadoda 05/14/2025



#28

Methyl tert-Butyl Ether

Concen: 14.980 ppbv

RT: 2.437 min Scan# 726

Delta R.T. 0.006 min

Lab File: VL042533.D

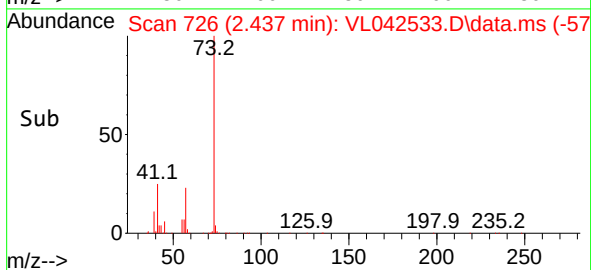
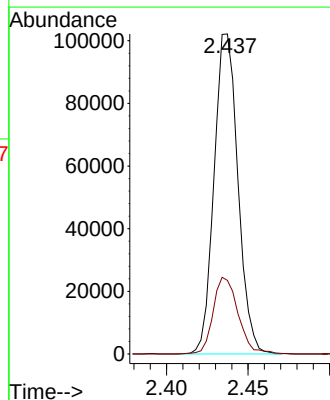
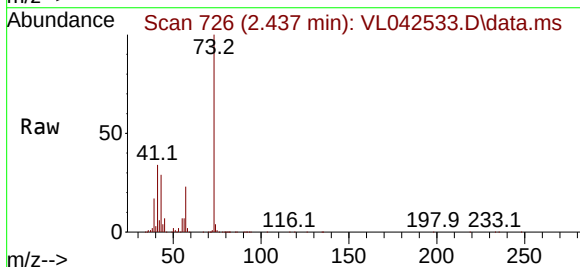
Acq: 12 May 2025 14:28

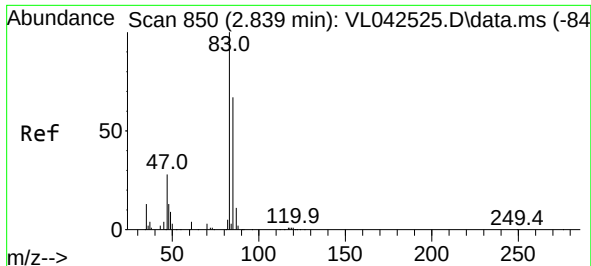
Tgt Ion: 73 Resp: 104072

Ion Ratio Lower Upper

73 100

57 25.1 20.3 30.5





#29

Chloroform

Concen: 14.419 ppbv

RT: 2.845 min Scan# 81

Delta R.T. 0.006 min

Lab File: VL042533.D

Acq: 12 May 2025 14:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

Tgt Ion: 83 Resp: 373949

Ion Ratio Lower Upper

83 100

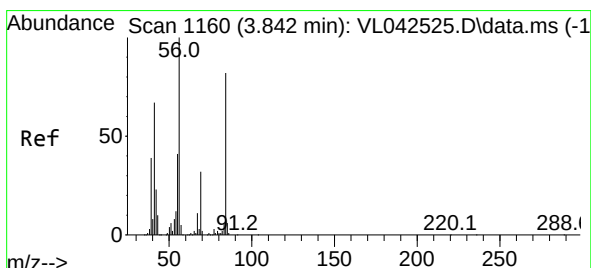
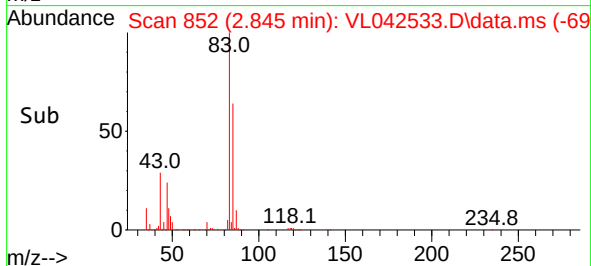
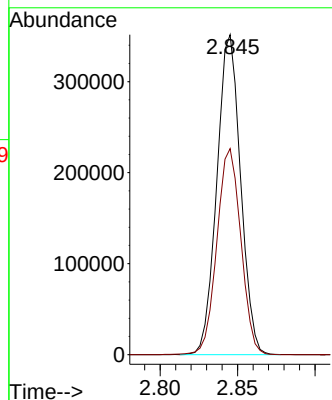
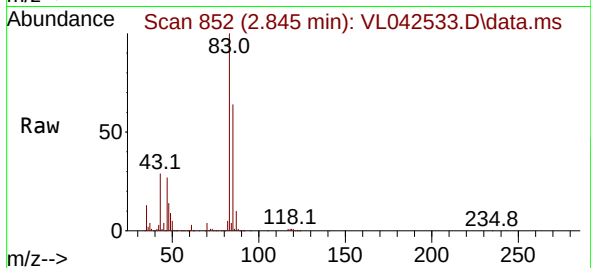
85 64.4 53.5 80.3

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/14/2025

Supervised By :Mahesh Dadoda 05/14/2025



#30

Cyclohexane

Concen: 18.321 ppbv

RT: 3.852 min Scan# 1163

Delta R.T. 0.009 min

Lab File: VL042533.D

Acq: 12 May 2025 14:28

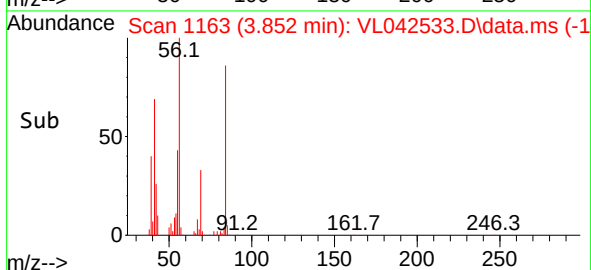
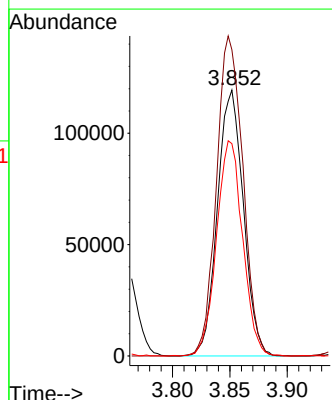
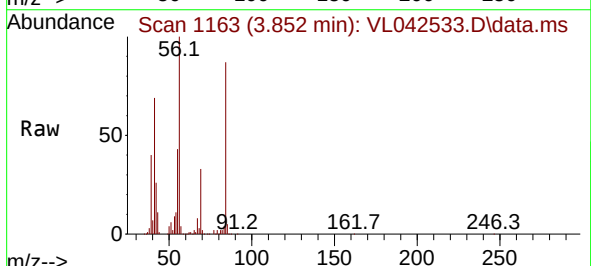
Tgt Ion: 84 Resp: 188093

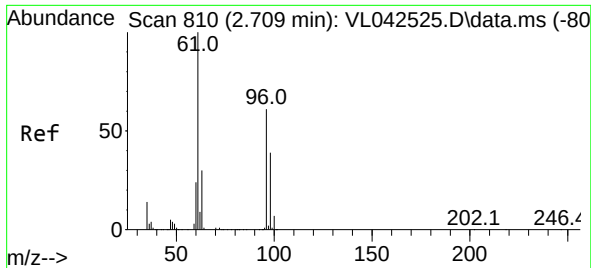
Ion Ratio Lower Upper

84 100

56 122.2 97.1 145.7

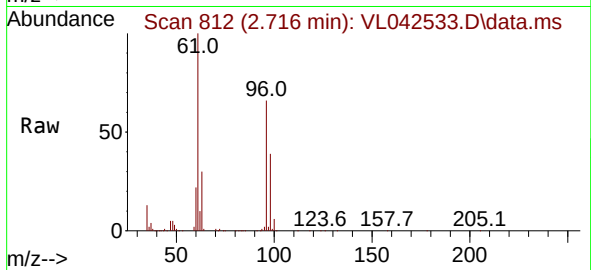
41 81.4 66.6 99.8





#31
 cis-1,2-Dichloroethene
 Concen: 16.408 ppbv
 RT: 2.716 min Scan# 810
 Delta R.T. 0.006 min
 Lab File: VL042533.D
 Acq: 12 May 2025 14:28

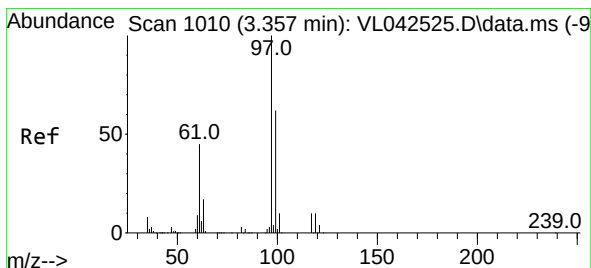
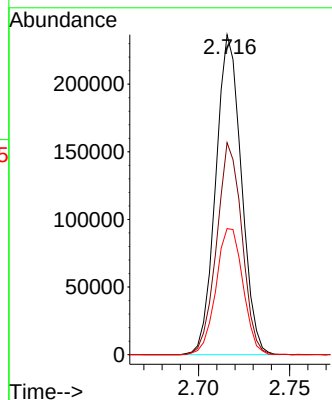
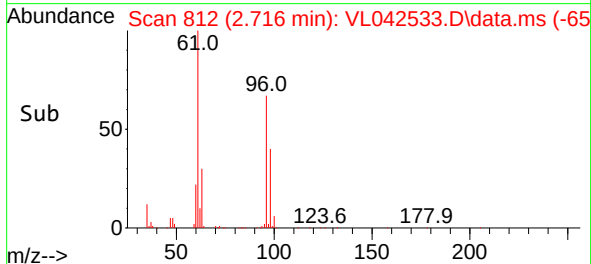
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



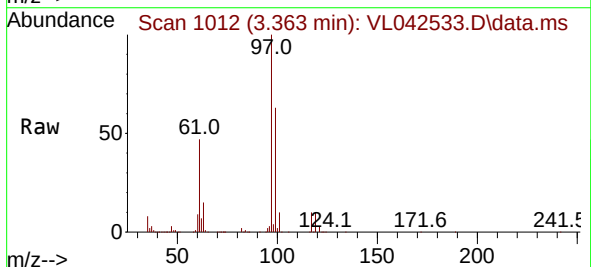
Tgt Ion: 61 Resp: 231689
 Ion Ratio Lower Upper
 61 100
 96 66.2 48.9 73.3
 98 39.4 31.4 47.2

Manual Integrations
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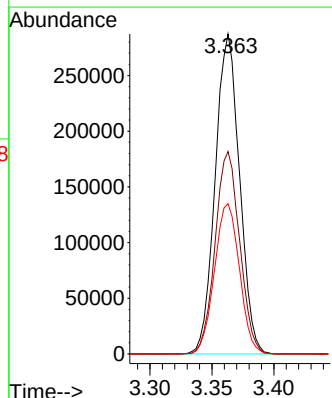
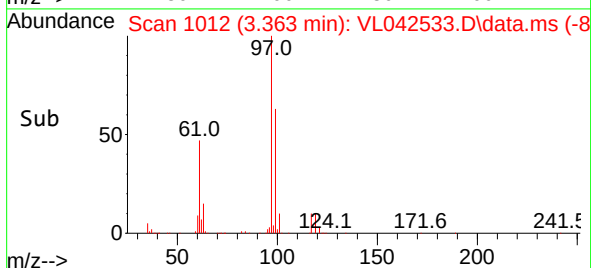
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025

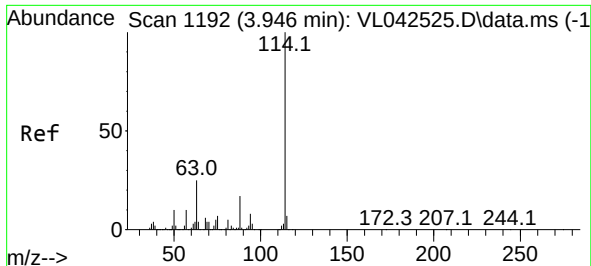


#32
 1,1,1-Trichloroethane
 Concen: 15.027 ppbv
 RT: 3.363 min Scan# 1012
 Delta R.T. 0.006 min
 Lab File: VL042533.D
 Acq: 12 May 2025 14:28



Tgt Ion: 97 Resp: 393153
 Ion Ratio Lower Upper
 97 100
 99 63.8 50.1 75.1
 61 48.3 38.2 57.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. 0.006 min

Lab File: VL042533.D

Acq: 12 May 2025 14:28

Instrument :

MSVOA_L

ClientSampleId :

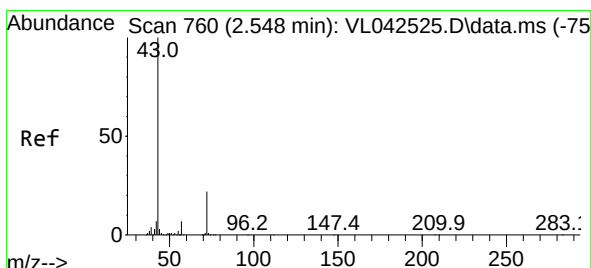
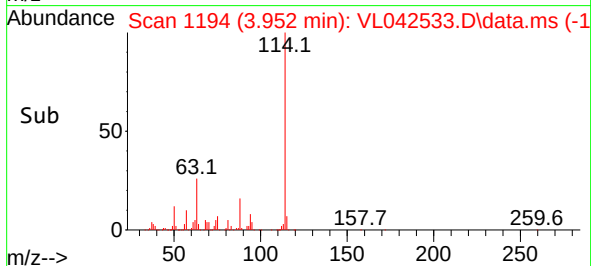
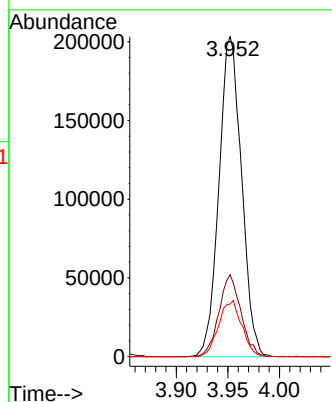
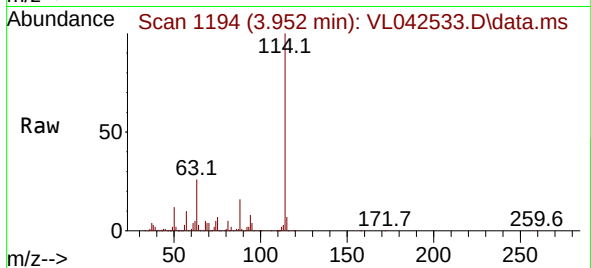
VSTDIC015

Tgt Ion:114	Resp: 309580
Ion Ratio	Lower Upper
114 100	
63 25.0	20.4 30.6
88 17.9	14.5 21.7

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#34

2-Butanone

Concen: 16.014 ppbv

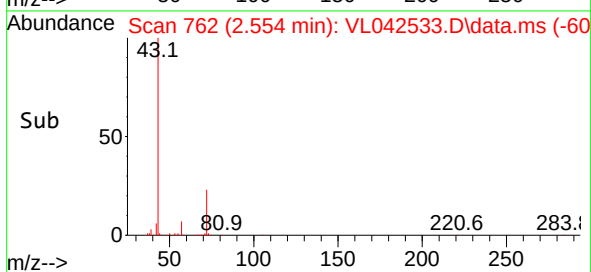
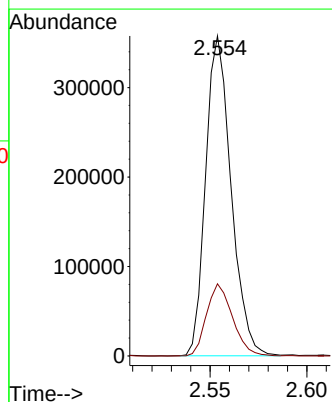
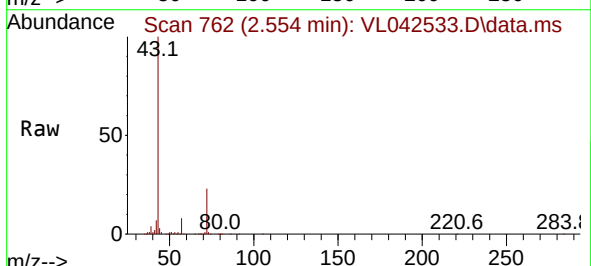
RT: 2.554 min Scan# 762

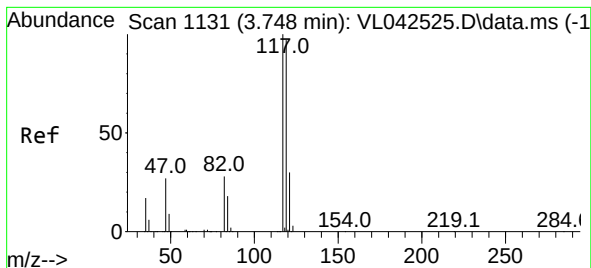
Delta R.T. 0.006 min

Lab File: VL042533.D

Acq: 12 May 2025 14:28

Tgt Ion: 43	Resp: 326787
Ion Ratio	Lower Upper
43 100	
72 23.1	18.7 28.1





#35

Carbon Tetrachloride

Concen: 15.056 ppbv

RT: 3.758 min Scan# 1101

Delta R.T. 0.009 min

Lab File: VL042533.D

Acq: 12 May 2025 14:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

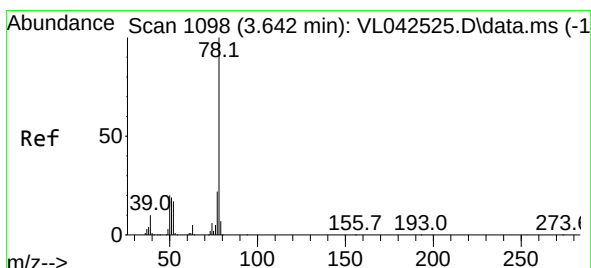
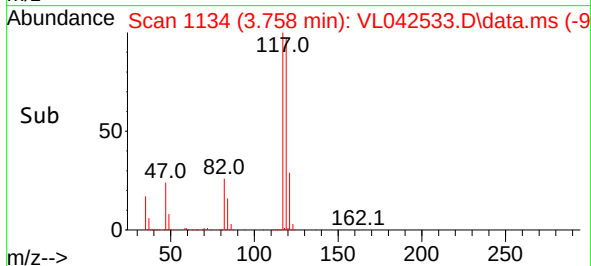
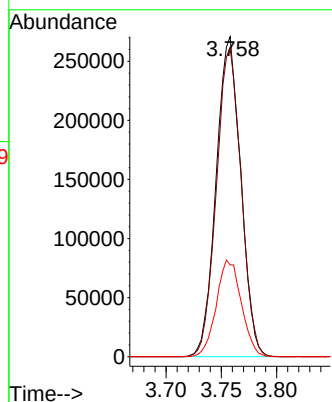
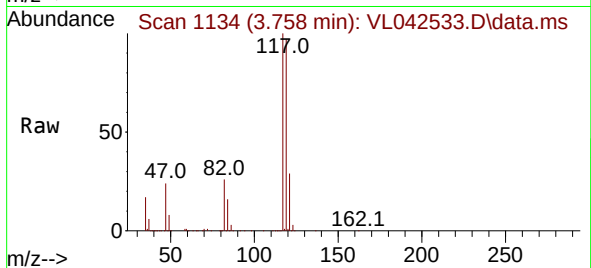
Tgt Ion: 117 Resp: 419052

Ion	Ratio	Lower	Upper
117	100		
119	96.6	77.7	116.5
121	28.7	24.0	36.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#36

Benzene

Concen: 16.702 ppbv

RT: 3.651 min Scan# 1101

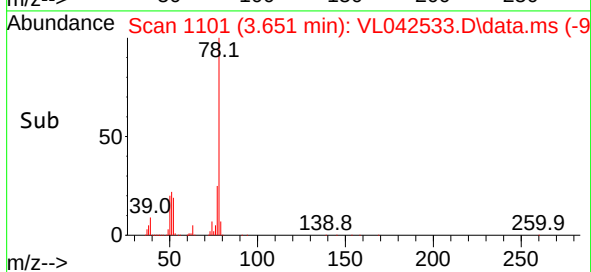
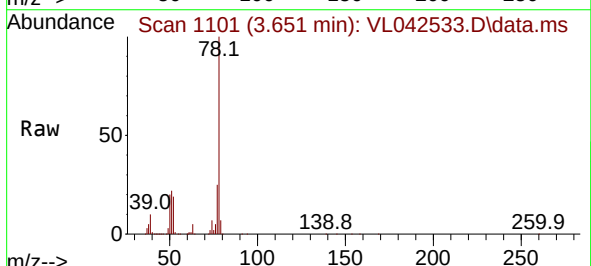
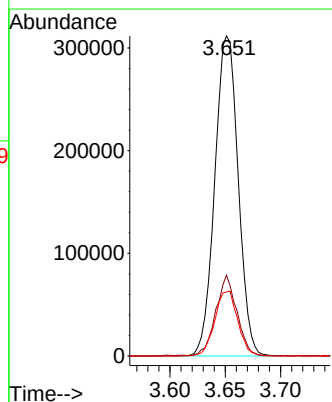
Delta R.T. 0.009 min

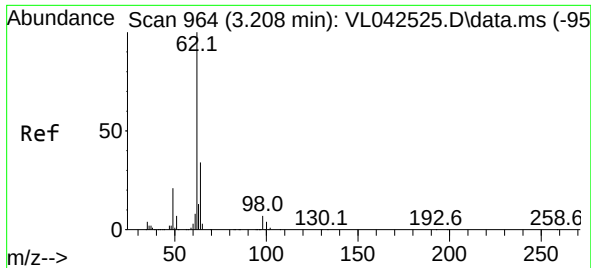
Lab File: VL042533.D

Acq: 12 May 2025 14:28

Tgt Ion: 78 Resp: 458244

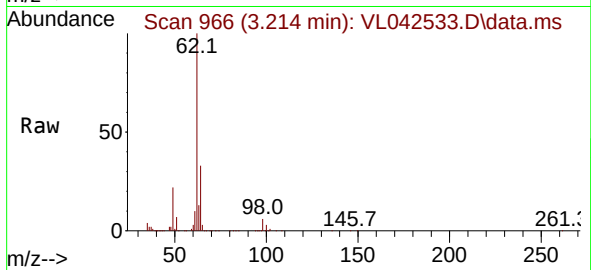
Ion	Ratio	Lower	Upper
78	100		
77	25.2	17.4	26.2
50	20.0	16.3	24.5





#37
1,2-Dichloroethane
Concen: 15.133 ppbv
RT: 3.214 min Scan# 966
Delta R.T. 0.006 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

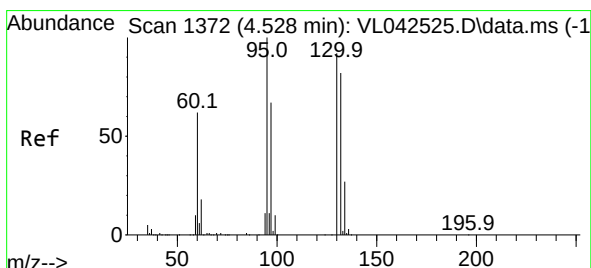
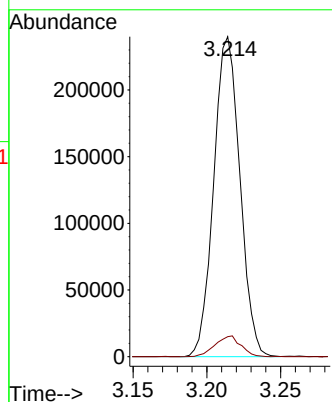
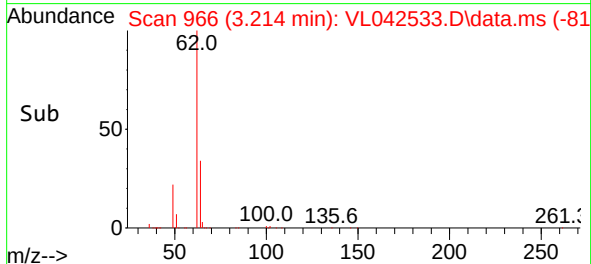
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



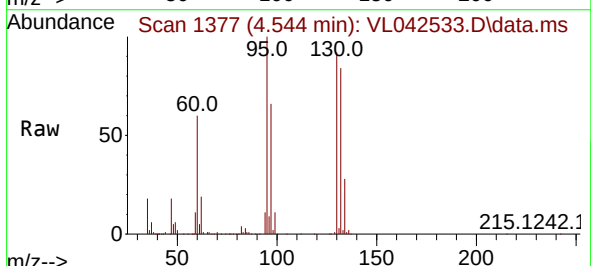
Tgt Ion: 62 Resp: 296168
Ion Ratio Lower Upper
62 100
98 6.4 5.0 7.4

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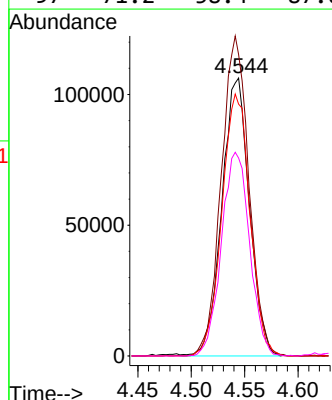
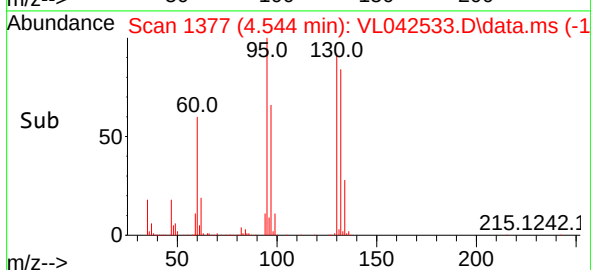
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

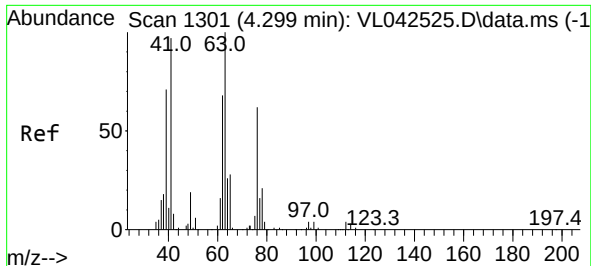


#38
Trichloroethene
Concen: 16.255 ppbv
RT: 4.544 min Scan# 1377
Delta R.T. 0.016 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28



Tgt Ion:130 Resp: 190538
Ion Ratio Lower Upper
130 100
95 108.3 87.0 130.4
132 90.6 71.1 106.7
97 71.2 58.4 87.6





#39

1,2-Dichloropropane

Concen: 15.867 ppbv

RT: 4.308 min Scan# 1304

Delta R.T. 0.009 min

Lab File: VL042533.D

Acq: 12 May 2025 14:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 63 Resp: 162049

Ion Ratio Lower Upper

63 100

41 90.7 77.5 116.3

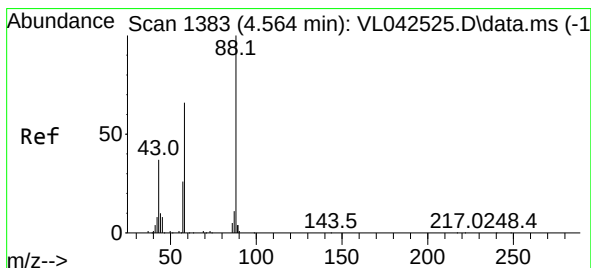
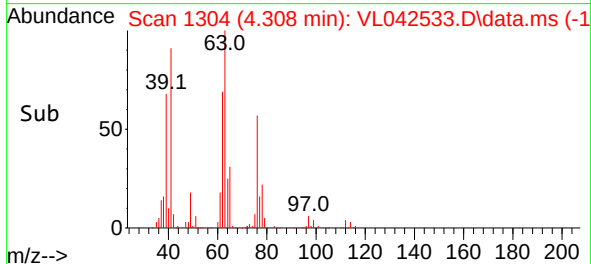
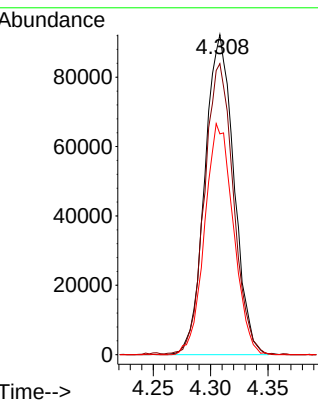
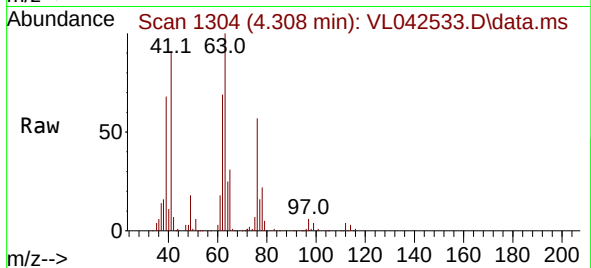
62 69.0 54.6 82.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/14/2025

Supervised By :Mahesh Dadoda 05/14/2025



#40

1,4-Dioxane

Concen: 17.187 ppbv m

RT: 4.580 min Scan# 1388

Delta R.T. 0.016 min

Lab File: VL042533.D

Acq: 12 May 2025 14:28

Tgt Ion: 88 Resp: 69978

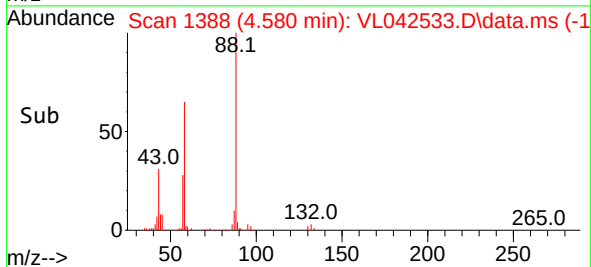
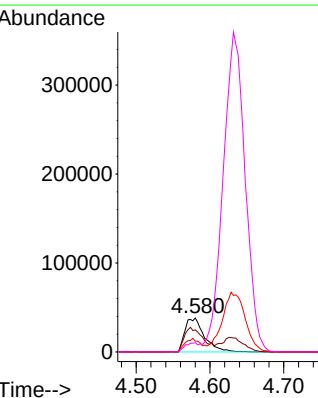
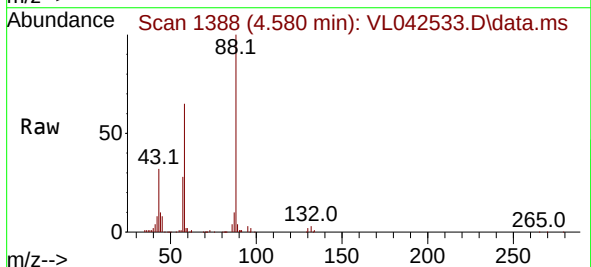
Ion Ratio Lower Upper

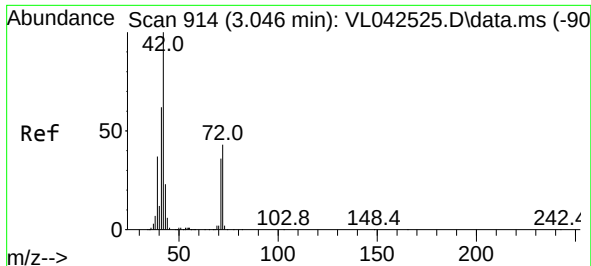
88 100

58 69.8 58.2 87.2

43 0.0 27.9 41.9#

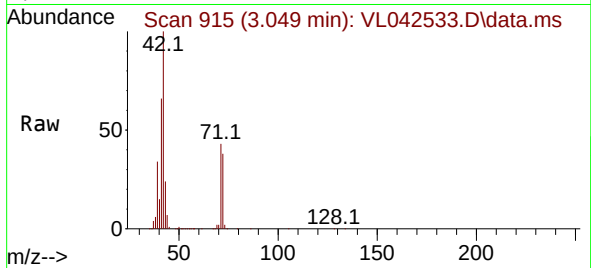
57 0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 19.057 ppbv
RT: 3.049 min Scan# 914
Delta R.T. 0.003 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

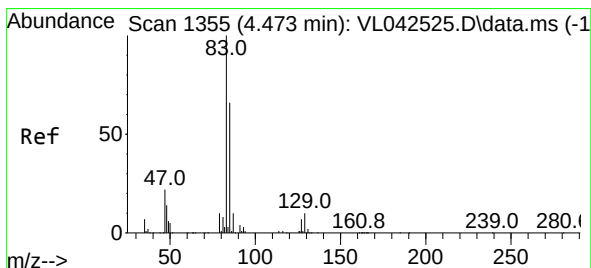
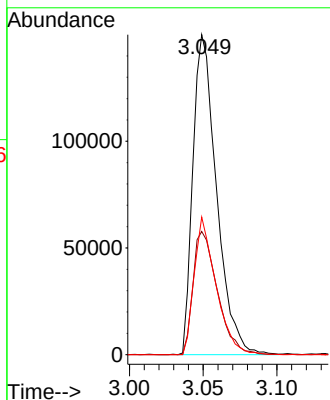
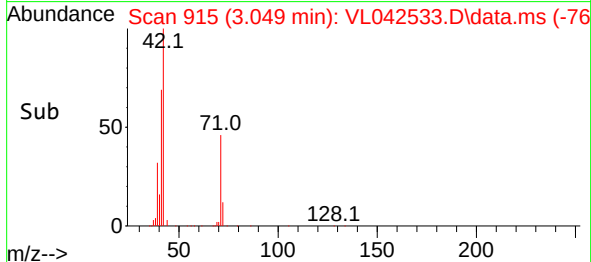
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



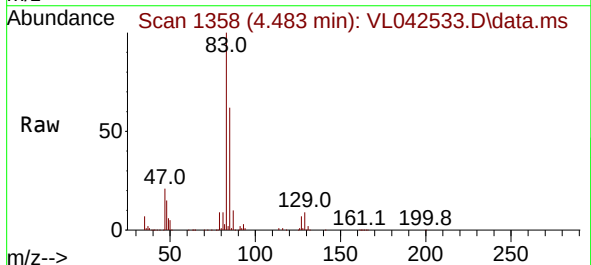
Tgt Ion: 42 Resp: 167734
Ion Ratio Lower Upper
42 100
72 39.6 32.7 49.1
71 39.6 30.4 45.6

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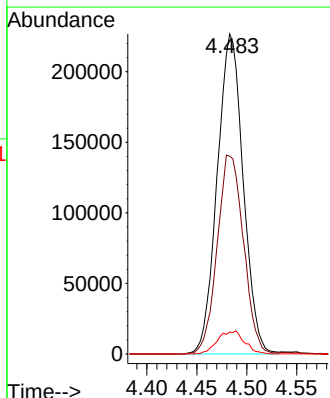
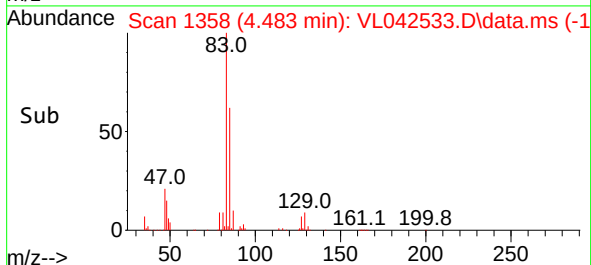
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

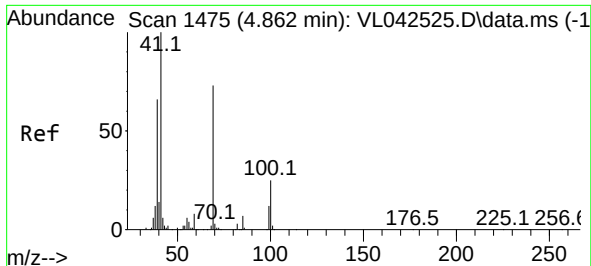


#42
Bromodichloromethane
Concen: 15.734 ppbv
RT: 4.483 min Scan# 1358
Delta R.T. 0.009 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28



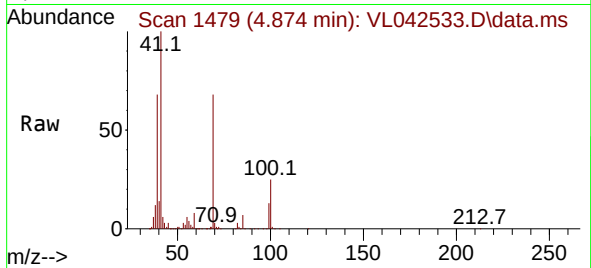
Tgt Ion: 83 Resp: 410197
Ion Ratio Lower Upper
83 100
85 61.8 52.6 79.0
127 6.8 6.0 9.0





#43
Methyl Methacrylate
Concen: 19.145 ppbv
RT: 4.874 min Scan# 1475
Delta R.T. 0.013 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

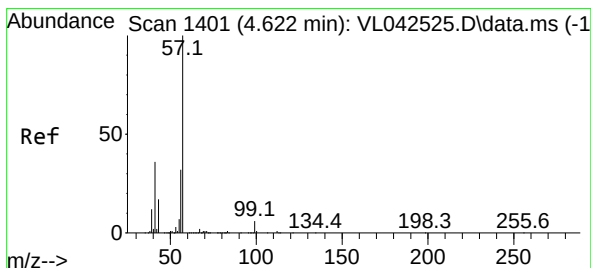
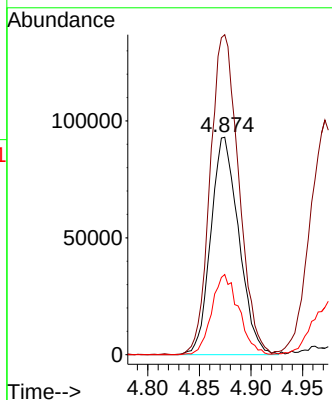
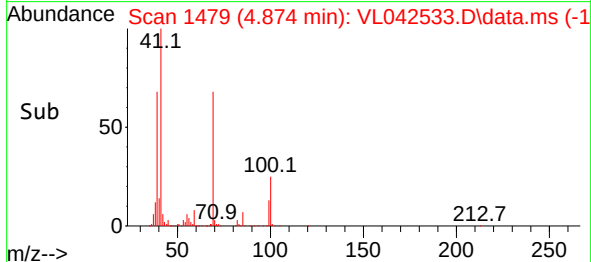
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion: 69 Resp: 175429
Ion Ratio Lower Upper
69 100
41 150.3 119.9 179.9
100 35.7 28.4 42.6

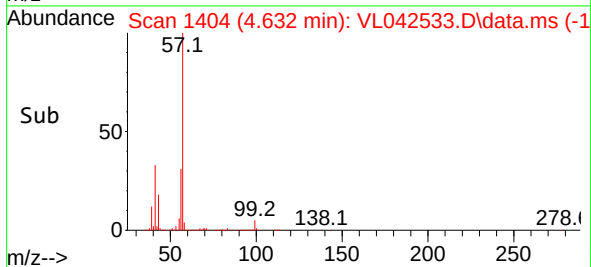
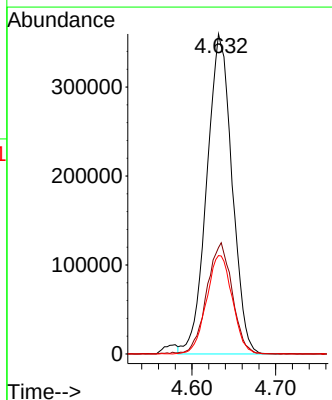
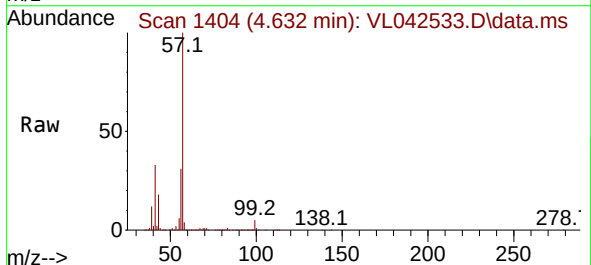
Manual Integrations
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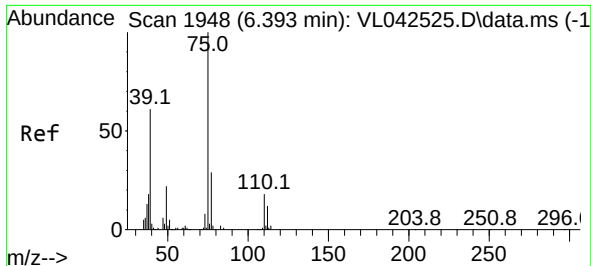
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#44
2,2,4-Trimethylpentane
Concen: 17.485 ppbv
RT: 4.632 min Scan# 1404
Delta R.T. 0.009 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

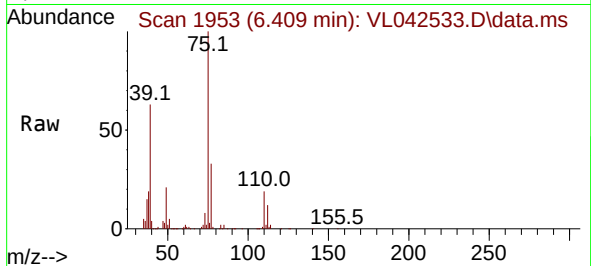
Tgt Ion: 57 Resp: 753360
Ion Ratio Lower Upper
57 100
41 35.5 28.3 42.5
56 31.5 25.9 38.9





#45
t-1,3-Dichloropropene
Concen: 19.247 ppbv
RT: 6.409 min Scan# 1948
Delta R.T. 0.016 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

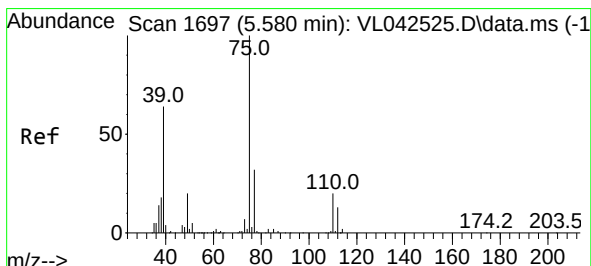
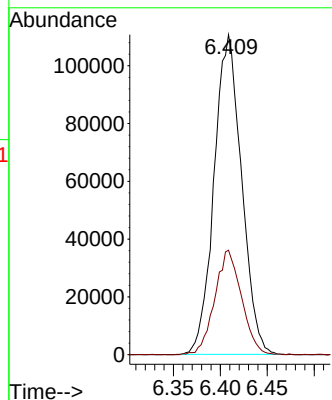
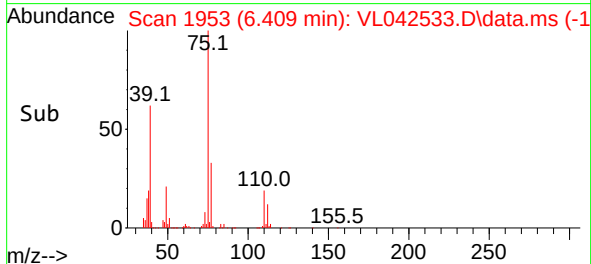
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion: 75 Resp: 22516
Ion Ratio Lower Upper
75 100
77 32.7 23.3 34.9

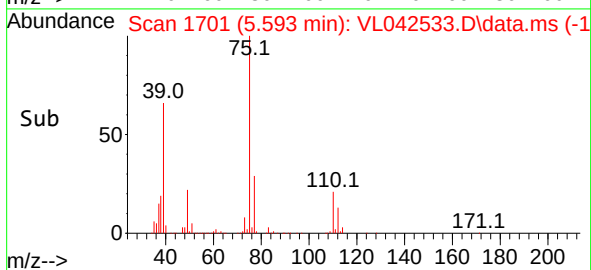
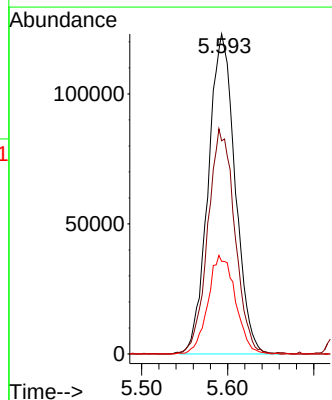
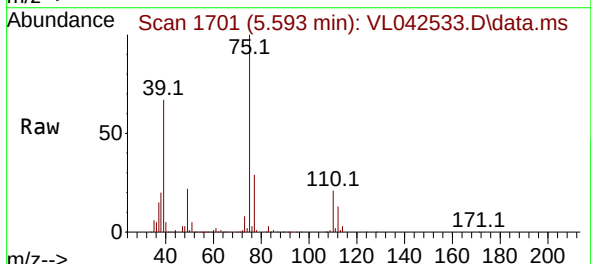
Manual Integrations
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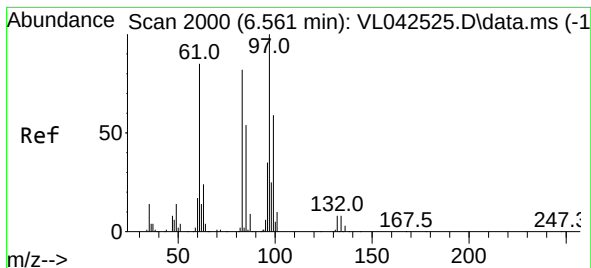
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#46
cis-1,3-Dichloropropene
Concen: 18.975 ppbv
RT: 5.593 min Scan# 1701
Delta R.T. 0.013 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

Tgt Ion: 75 Resp: 267742
Ion Ratio Lower Upper
75 100
39 66.2 51.2 76.8
77 29.0 25.4 38.0





#47

1,1,2-Trichloroethane

Concen: 15.225 ppbv

RT: 6.574 min Scan# 2004

Delta R.T. 0.013 min

Lab File: VL042533.D

Acq: 12 May 2025 14:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

Tgt Ion: 97 Resp: 18308

Ion Ratio Lower Upper

97 100

83 78.4 66.0 99.0

85 48.4 42.8 64.2

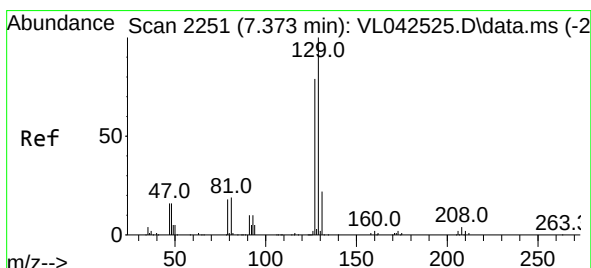
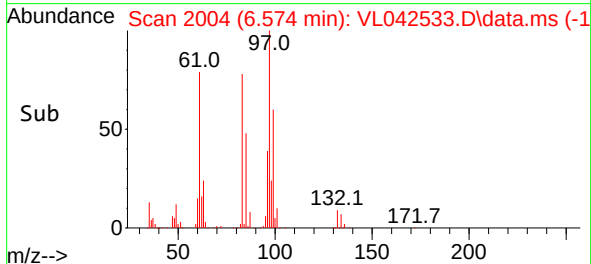
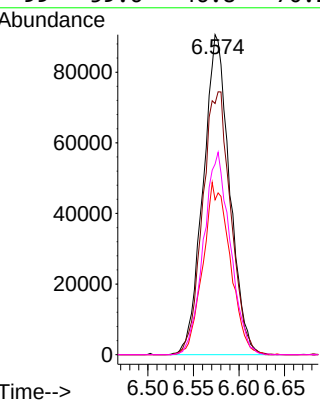
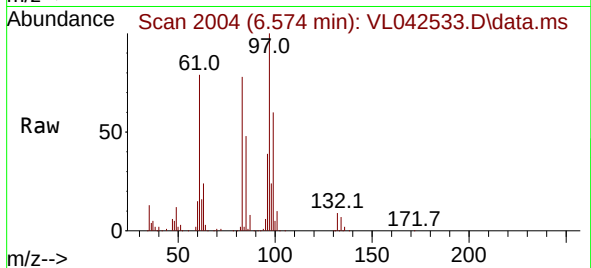
99 59.6 46.8 70.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/14/2025

Supervised By :Mahesh Dadoda 05/14/2025



#48

Dibromochloromethane

Concen: 16.641 ppbv

RT: 7.383 min Scan# 2254

Delta R.T. 0.009 min

Lab File: VL042533.D

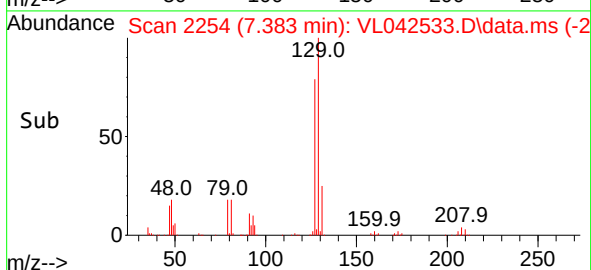
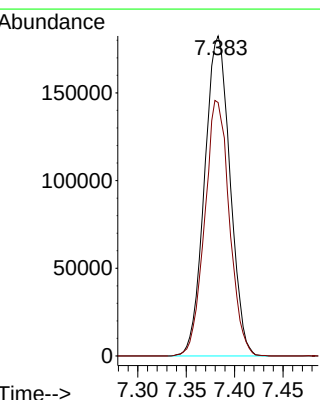
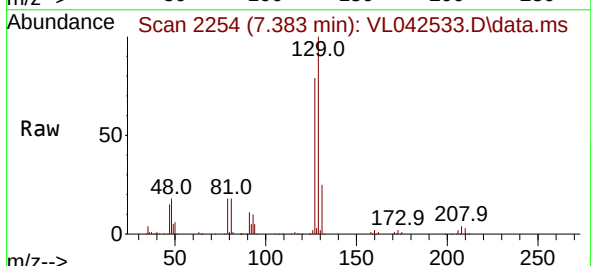
Acq: 12 May 2025 14:28

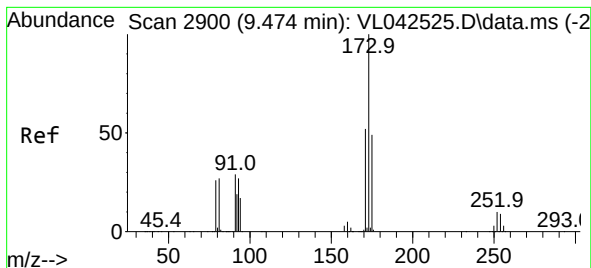
Tgt Ion:129 Resp: 334374

Ion Ratio Lower Upper

129 100

127 77.5 39.6 118.8





#49

Bromoform

Concen: 16.922 ppbv

RT: 9.480 min Scan# 2900

Delta R.T. 0.006 min

Lab File: VL042533.D

Acq: 12 May 2025 14:28

Instrument :

MSVOA_L

ClientSampleId :

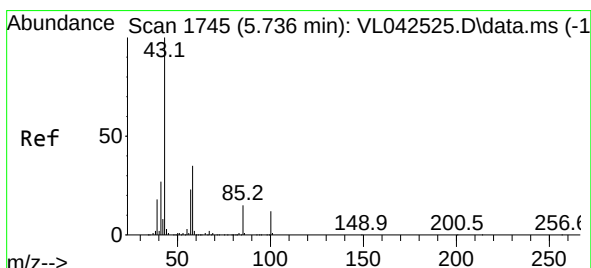
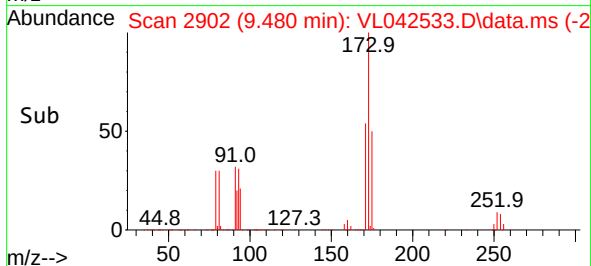
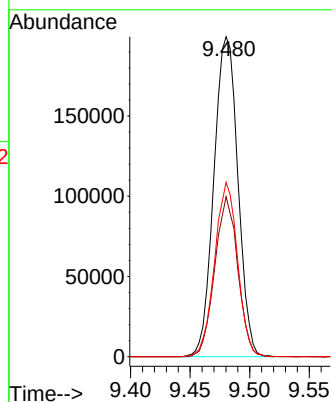
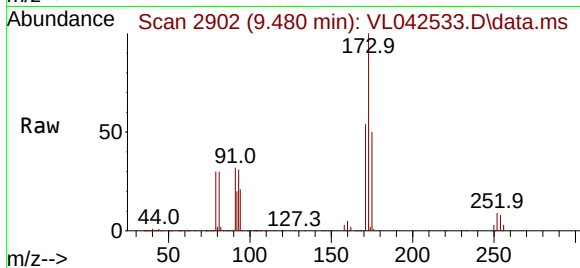
VSTDIC015

Tgt Ion:173 Resp: 279015
 Ion Ratio Lower Upper
 173 100
 175 47.9 39.1 58.7
 171 52.1 41.8 62.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025



#50

4-Methyl-2-Pentanone

Concen: 18.621 ppbv

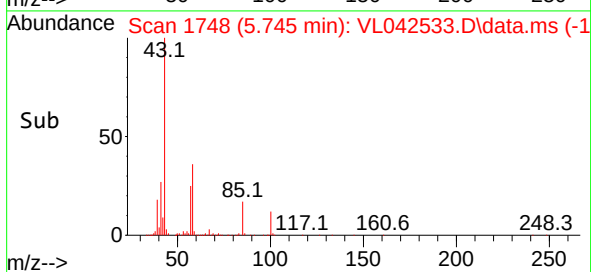
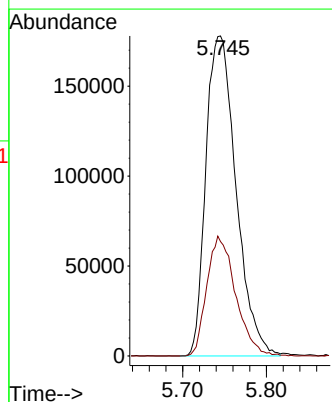
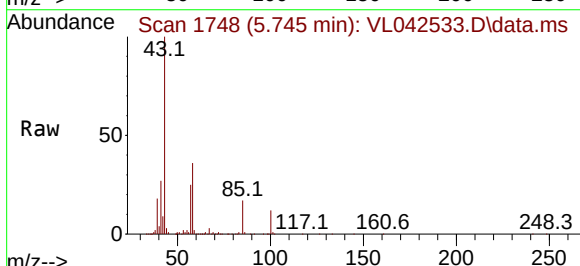
RT: 5.745 min Scan# 1748

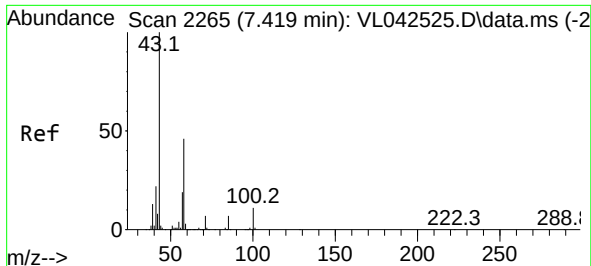
Delta R.T. 0.009 min

Lab File: VL042533.D

Acq: 12 May 2025 14:28

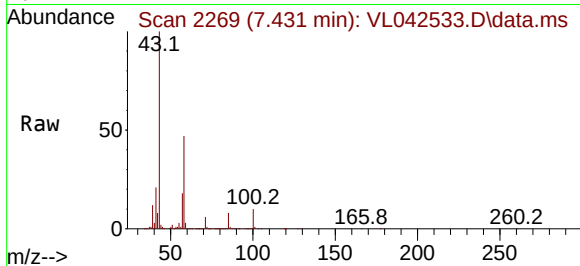
Tgt Ion: 43 Resp: 445638
 Ion Ratio Lower Upper
 43 100
 58 35.7 28.6 42.8





#51
2-Hexanone
Concen: 20.654 ppbv
RT: 7.431 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

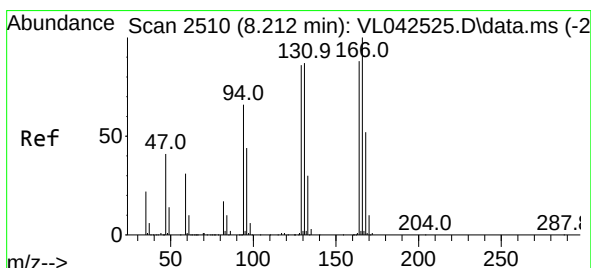
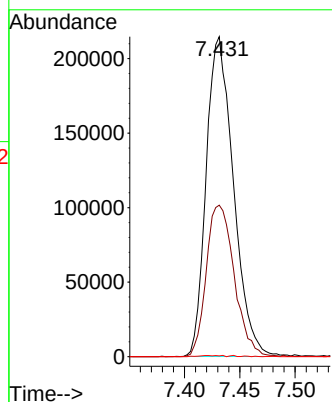
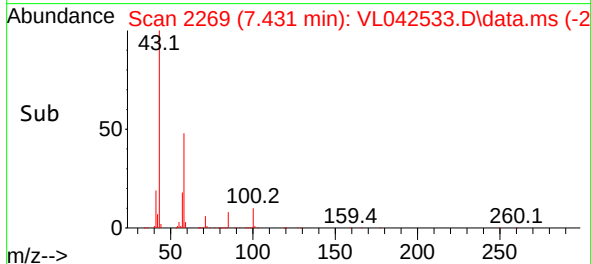
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion: 43 Resp: 36739
Ion Ratio Lower Upper
43 100
58 48.8 37.5 56.3
98 0.5 0.9 1.3

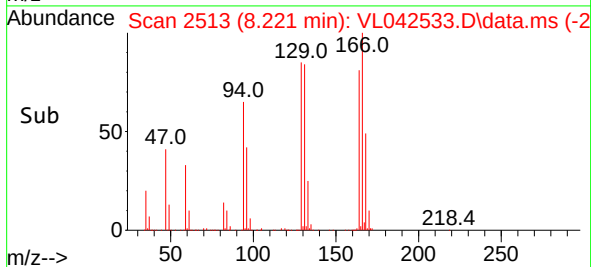
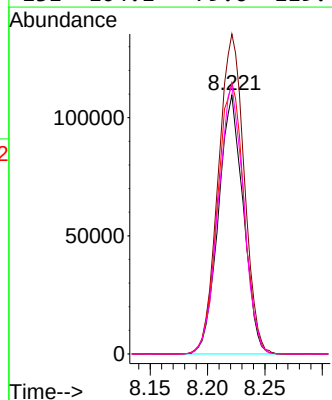
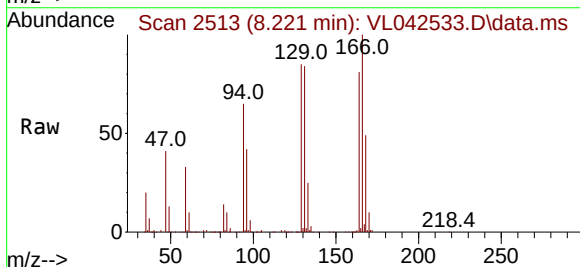
Manual Integrations
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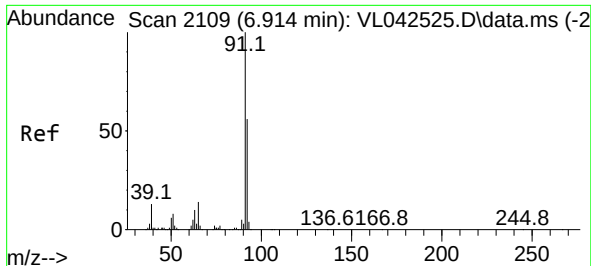
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#52
Tetrachloroethene
Concen: 15.639 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. 0.009 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

Tgt Ion:164 Resp: 165300
Ion Ratio Lower Upper
164 100
166 123.6 91.3 136.9
129 104.8 78.9 118.3
131 104.1 79.6 119.4





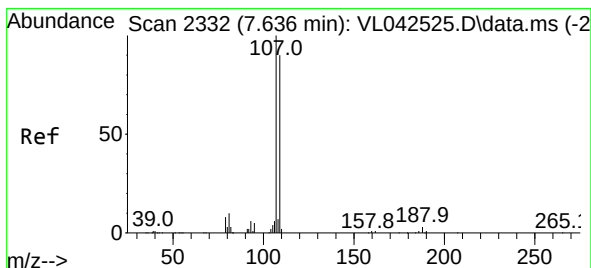
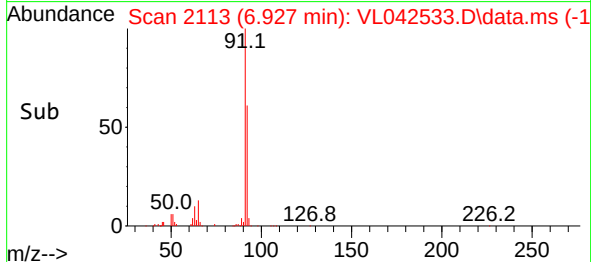
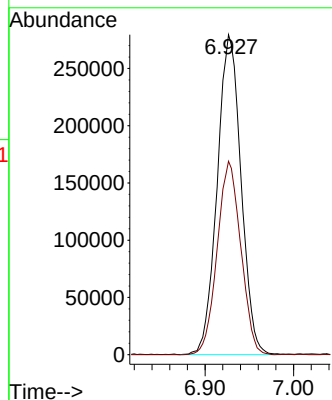
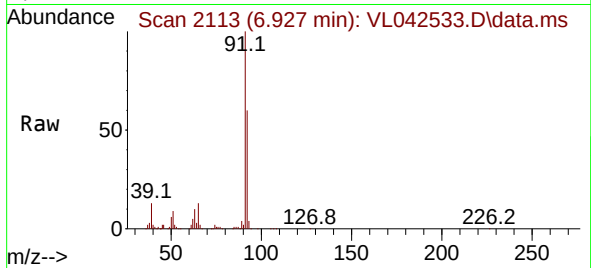
#53
Toluene
Concen: 19.420 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. 0.013 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 91 Resp: 52287
Ion Ratio Lower Upper
91 100
92 59.9 47.8 71.6

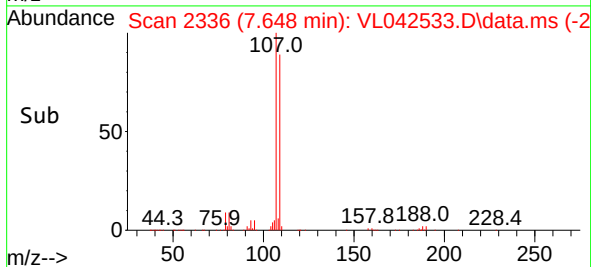
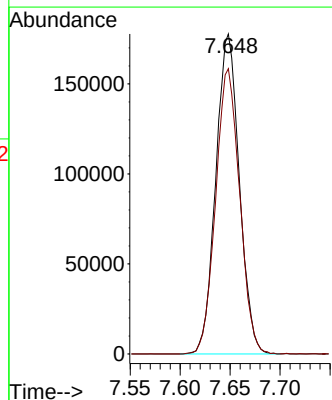
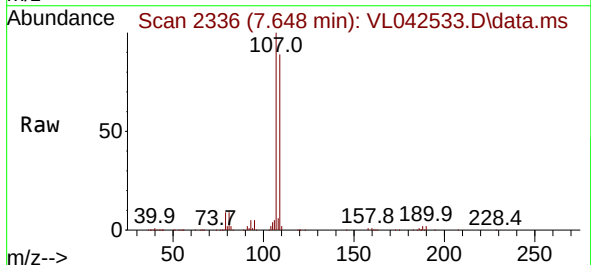
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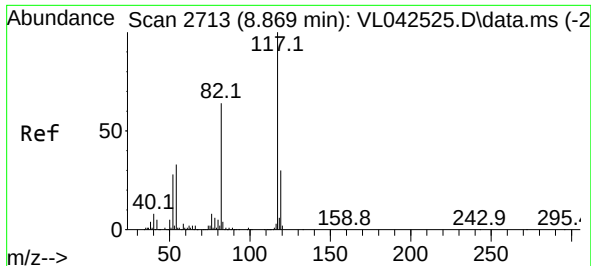
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#54
1,2-Dibromoethane
Concen: 16.547 ppbv
RT: 7.648 min Scan# 2336
Delta R.T. 0.013 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

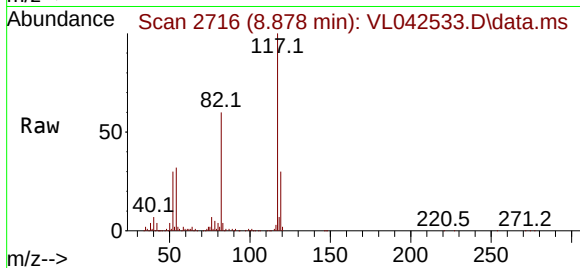
Tgt Ion:107 Resp: 290801
Ion Ratio Lower Upper
107 100
109 89.2 72.2 108.4





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2716
Delta R.T. 0.009 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

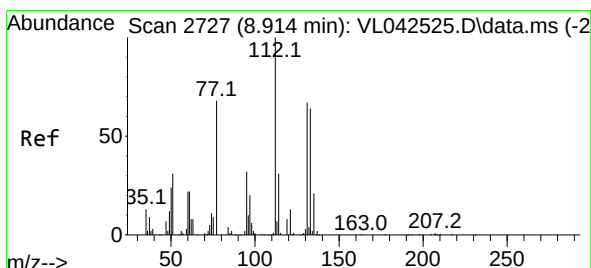
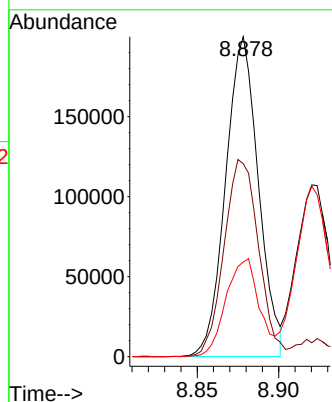
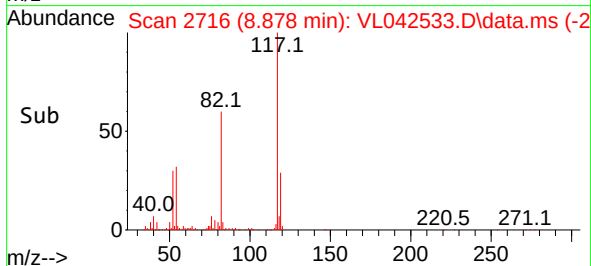
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion:117 Resp: 279828
Ion Ratio Lower Upper
117 100
82 65.2 55.0 82.4
119 31.1 25.8 38.6

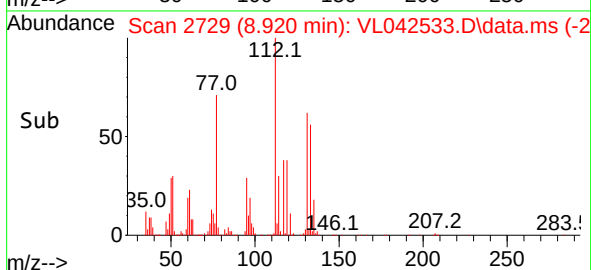
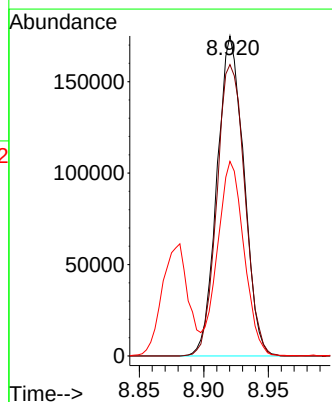
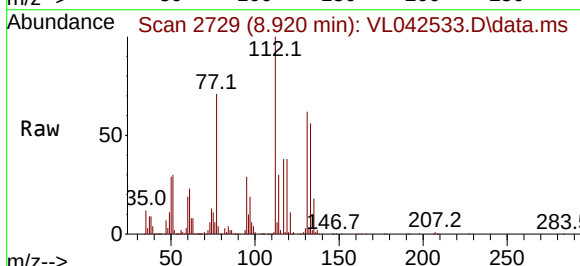
Manual Integrations
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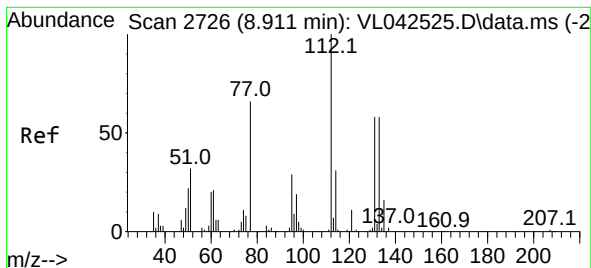
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#56
1,1,1,2-Tetrachloroethane
Concen: 14.589 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. 0.006 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

Tgt Ion:131 Resp: 253110
Ion Ratio Lower Upper
131 100
133 94.8 77.4 116.2
119 60.0 49.0 73.4





#57

Chlorobenzene

Concen: 15.057 ppbv

RT: 8.917 min Scan# 21

Delta R.T. 0.006 min

Lab File: VL042533.D

Acq: 12 May 2025 14:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion:112 Resp: 423059

Ion Ratio Lower Upper

112 100

77 66.6 53.6 80.4

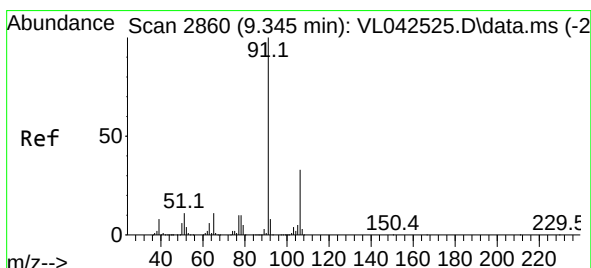
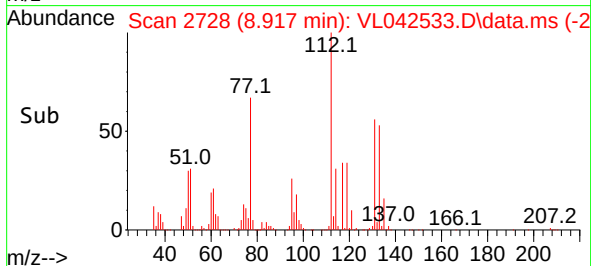
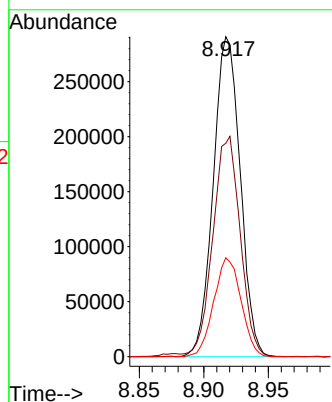
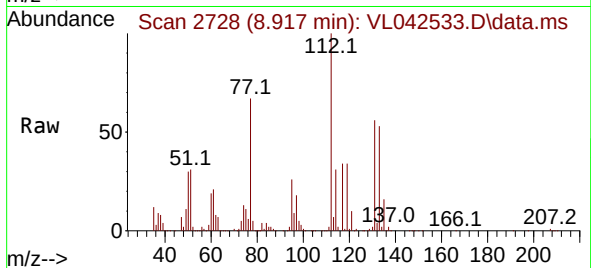
114 30.8 28.2 34.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/14/2025

Supervised By :Mahesh Dadoda 05/14/2025



#58

Ethyl Benzene

Concen: 19.852 ppbv

RT: 9.351 min Scan# 2862

Delta R.T. 0.006 min

Lab File: VL042533.D

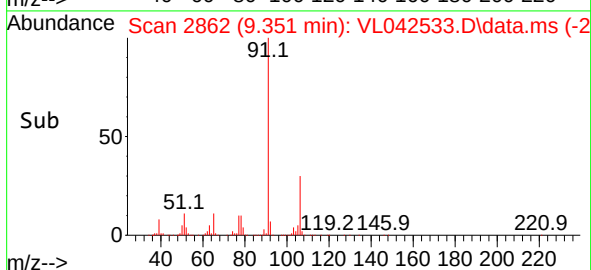
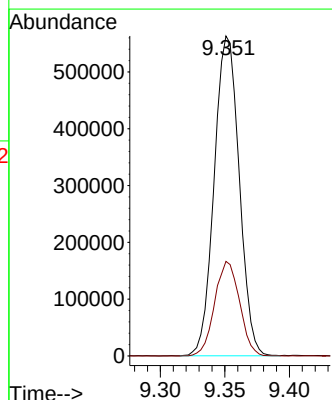
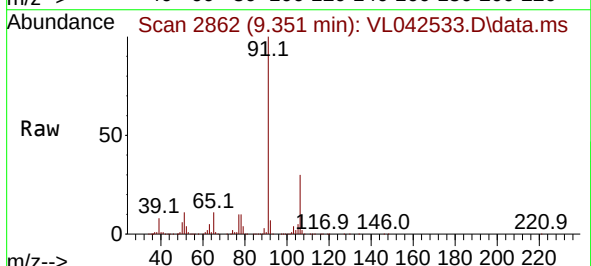
Acq: 12 May 2025 14:28

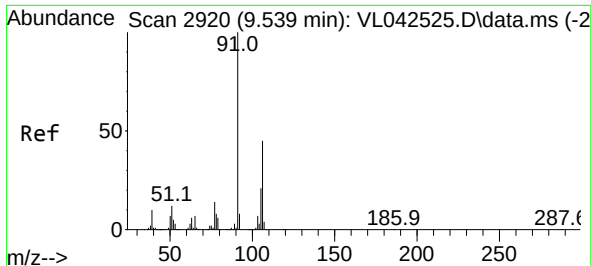
Tgt Ion: 91 Resp: 757160

Ion Ratio Lower Upper

91 100

106 29.6 26.0 39.0





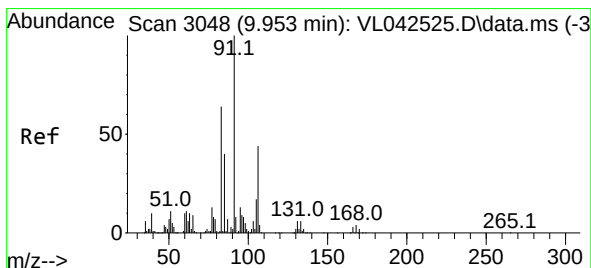
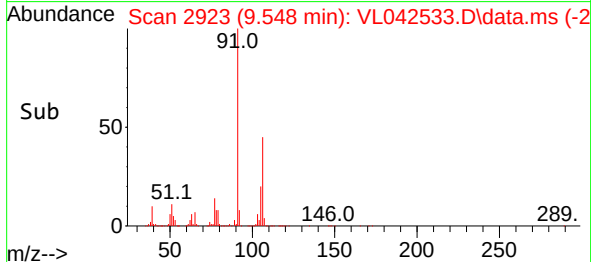
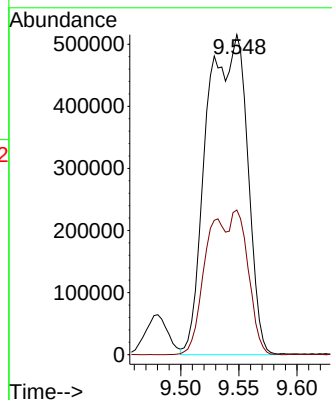
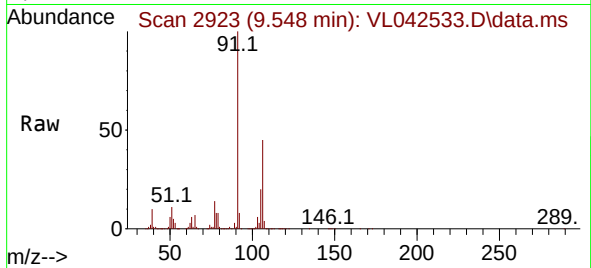
#59
m/p-Xylene
Concen: 36.878 ppbv m
RT: 9.548 min Scan# 2920
Delta R.T. 0.009 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 91 Resp: 125125
Ion Ratio Lower Upper
91 100
106 45.3 0.0 0.0

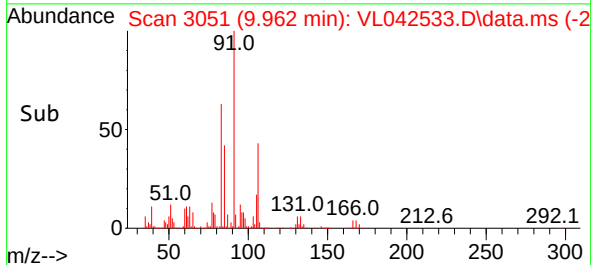
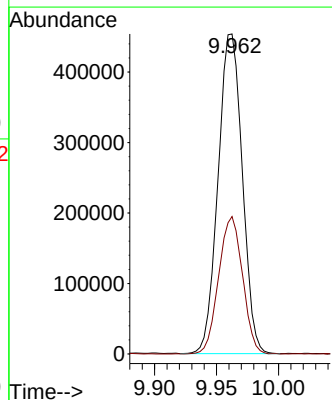
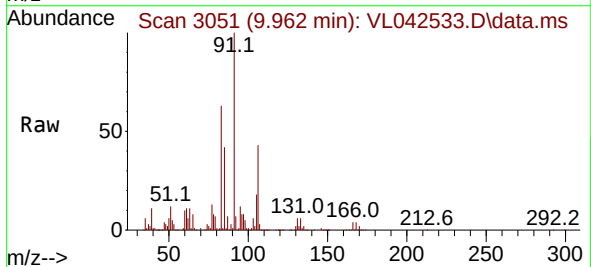
Manual Integrations
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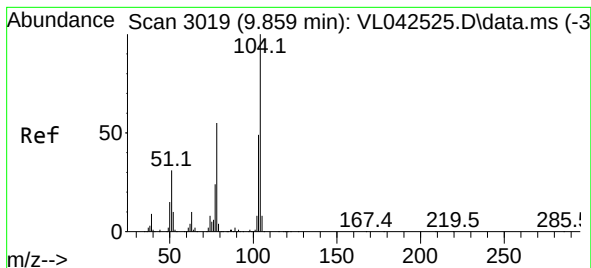
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#60
o-Xylene
Concen: 18.698 ppbv
RT: 9.962 min Scan# 3051
Delta R.T. 0.009 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

Tgt Ion: 91 Resp: 618234
Ion Ratio Lower Upper
91 100
106 42.4 21.6 64.6





#61

Styrene

Concen: 22.137 ppbv

RT: 9.869 min Scan# 3019

Delta R.T. 0.009 min

Lab File: VL042533.D

Acq: 12 May 2025 14:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion:104 Resp: 269609

Ion Ratio Lower Upper

104 100

78 53.7 44.7 67.1

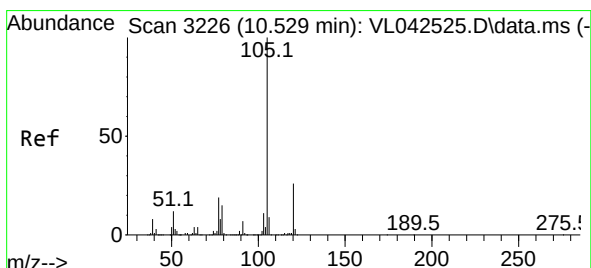
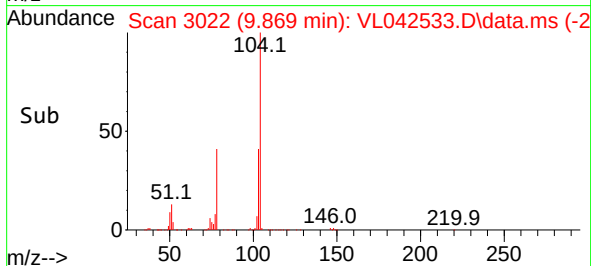
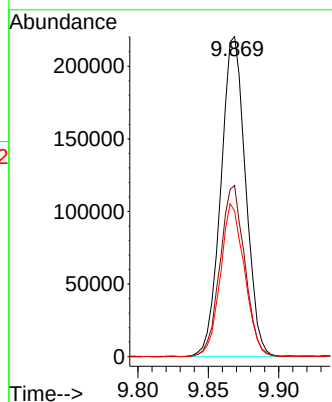
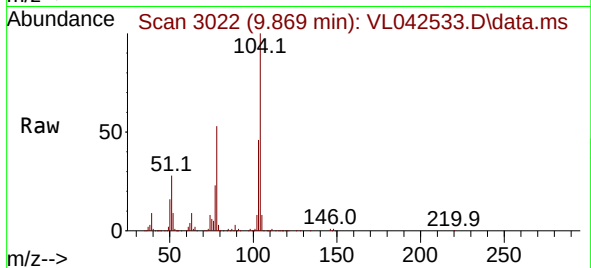
103 47.0 38.6 58.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025

Supervised By :Mahesh Dadoda 05/14/2025



#62

Isopropylbenzene

Concen: 18.112 ppbv

RT: 10.535 min Scan# 3228

Delta R.T. 0.006 min

Lab File: VL042533.D

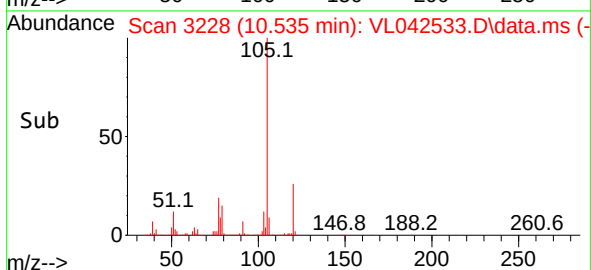
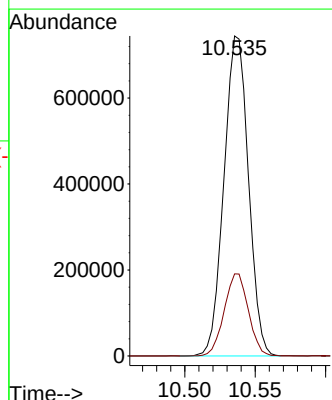
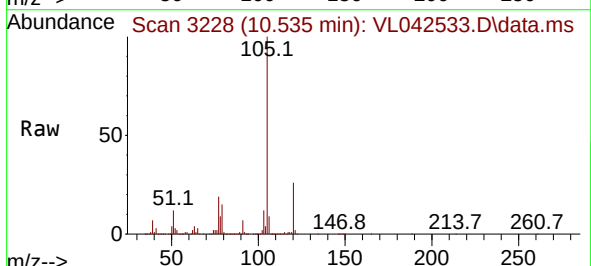
Acq: 12 May 2025 14:28

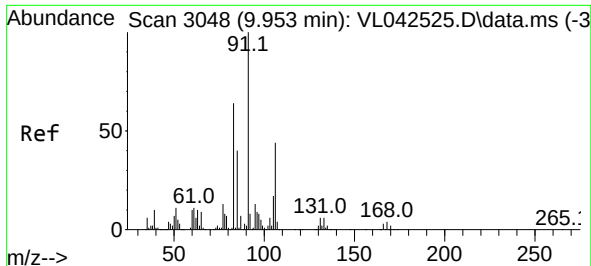
Tgt Ion:105 Resp: 902388

Ion Ratio Lower Upper

105 100

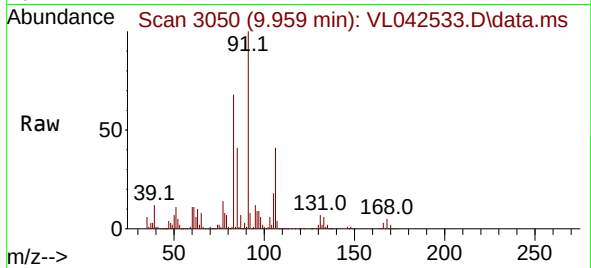
120 25.4 20.1 30.1





#63
1,1,2,2-Tetrachloroethane
Concen: 14.351 ppbv
RT: 9.959 min Scan# 3048
Delta R.T. 0.006 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

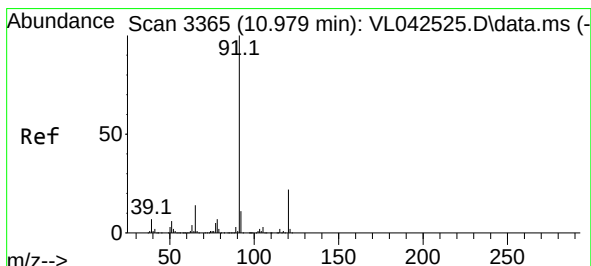
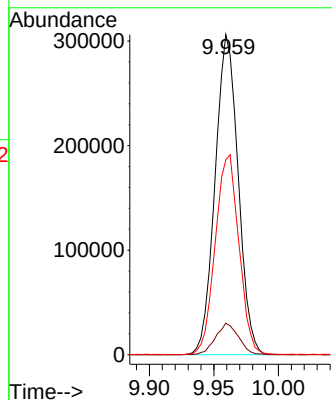
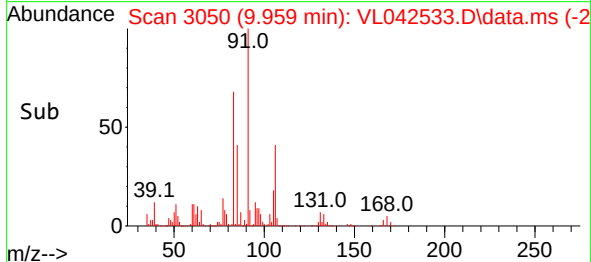
Instrument : MSVOA_L
ClientSampleId : VSTDIC015



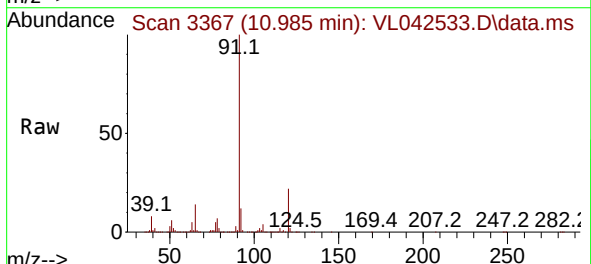
Tgt Ion: 83 Resp: 38058
Ion Ratio Lower Upper
83 100
131 9.8 4.9 14.7
85 63.9 32.3 96.8

Manual Integrations
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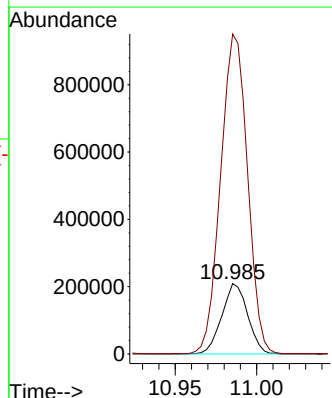
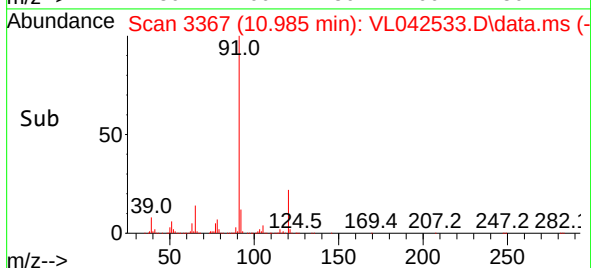
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

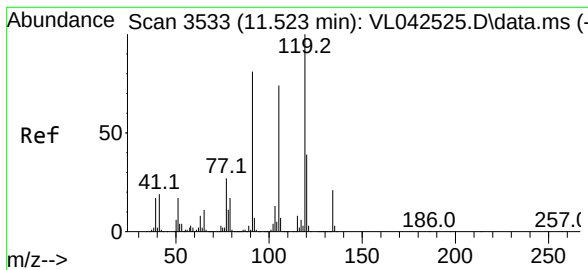


#64
n-propylbenzene
Concen: 18.238 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. 0.006 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28



Tgt Ion:120 Resp: 230244
Ion Ratio Lower Upper
120 100
91 473.5 377.7 566.5





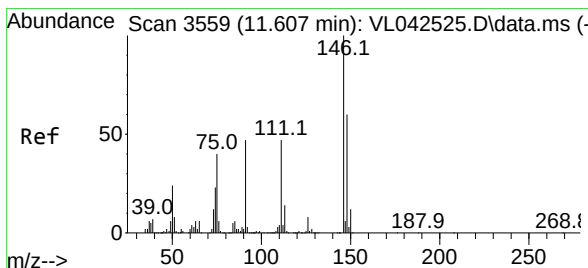
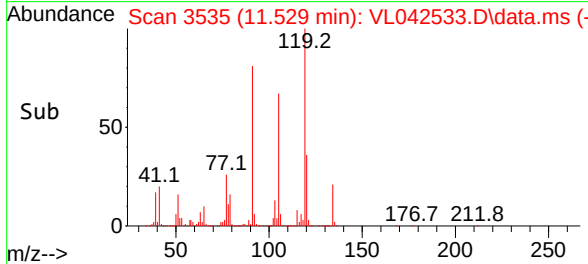
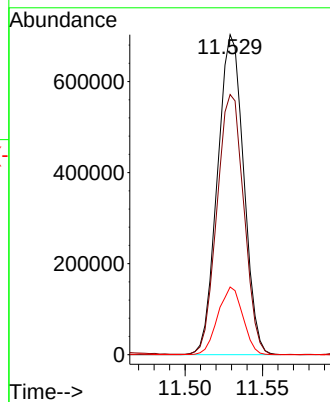
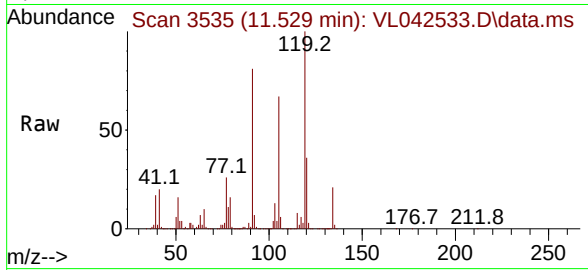
#65
tert-Butylbenzene
Concen: 18.087 ppbv
RT: 11.529 min Scan# 3533
Delta R.T. 0.006 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion:119 Resp: 82749
Ion Ratio Lower Upper
119 100
91 83.0 66.6 99.8
134 20.1 16.3 24.5

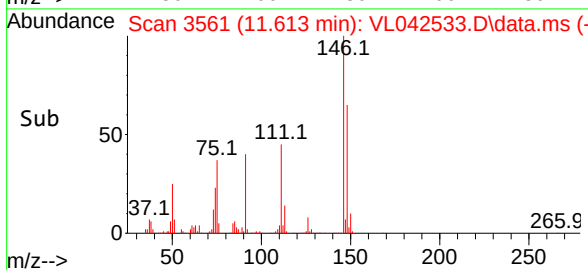
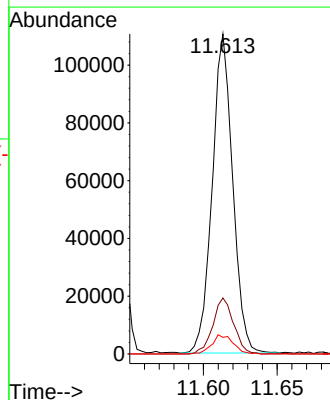
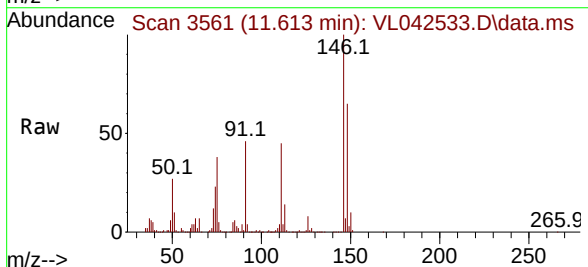
Manual Integrations
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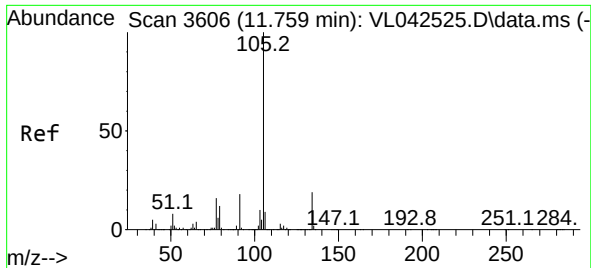
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#66
Benzyl Chloride
Concen: 17.633 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. 0.006 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

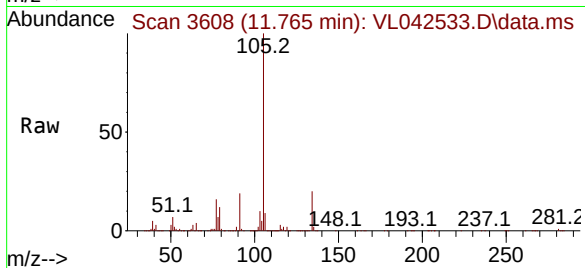
Tgt Ion: 91 Resp: 106741
Ion Ratio Lower Upper
91 100
126 17.9 13.7 20.5
128 6.3 4.2 6.2#





#67
 sec-Butylbenzene
 Concen: 17.089 ppbv
 RT: 11.765 min Scan# 3608
 Delta R.T. 0.006 min
 Lab File: VL042533.D
 Acq: 12 May 2025 14:28

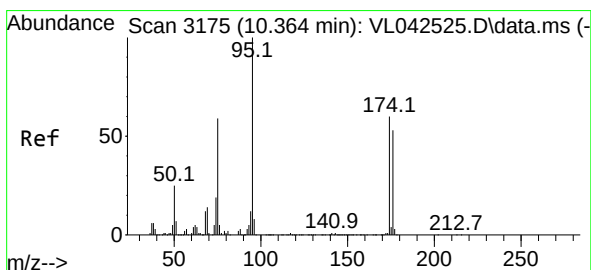
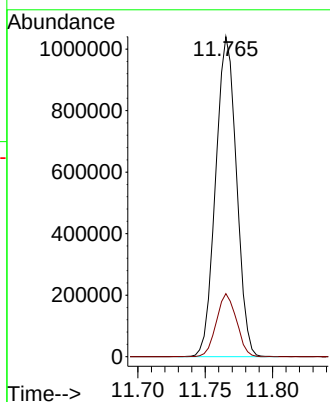
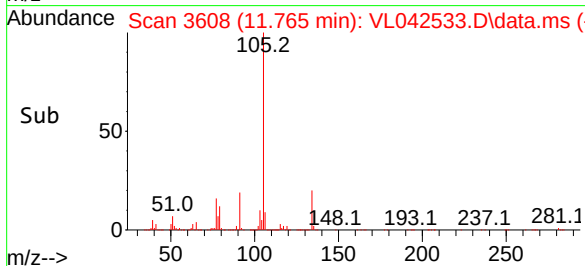
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



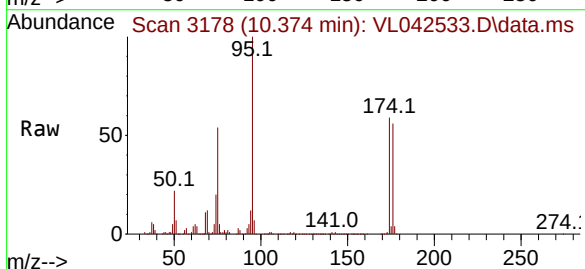
Tgt Ion:105 Resp: 1120950
 Ion Ratio Lower Upper
 105 100
 134 19.0 14.9 22.3

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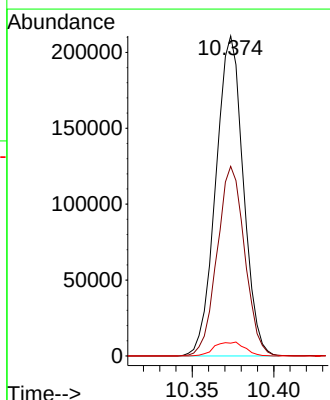
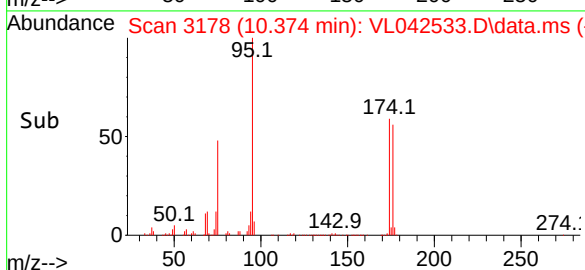
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025

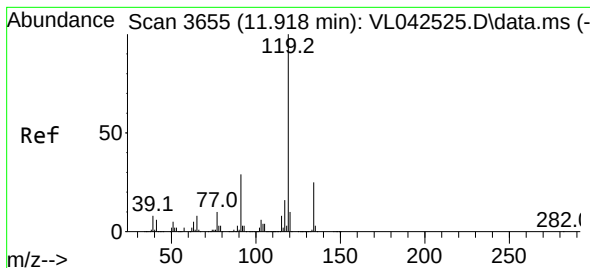


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.136 ppbv
 RT: 10.374 min Scan# 3178
 Delta R.T. 0.009 min
 Lab File: VL042533.D
 Acq: 12 May 2025 14:28



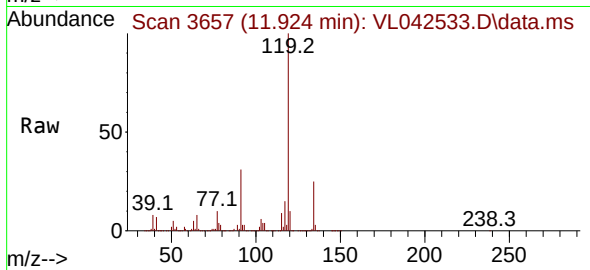
Tgt Ion: 95 Resp: 246798
 Ion Ratio Lower Upper
 95 100
 174 59.5 48.0 72.0
 175 4.8 3.5 5.3





#69
p-Isopropyltoluene
Concen: 18.247 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. 0.006 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

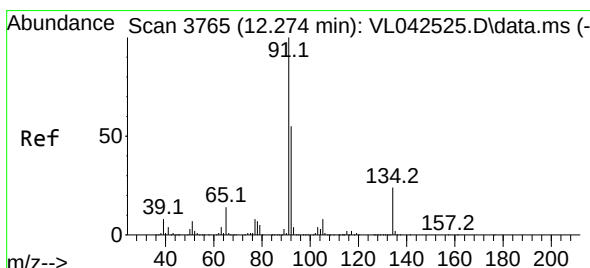
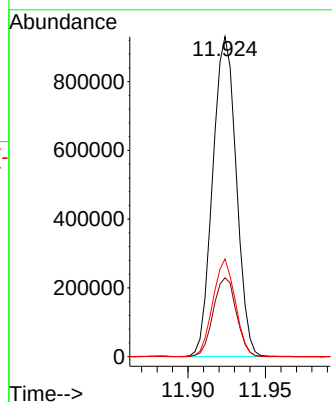
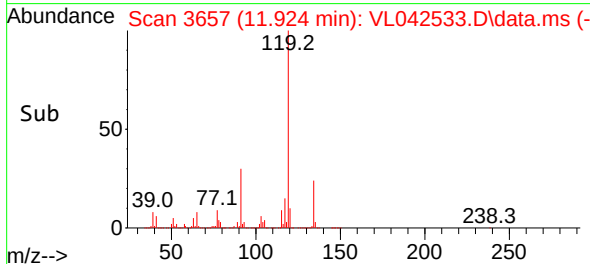
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



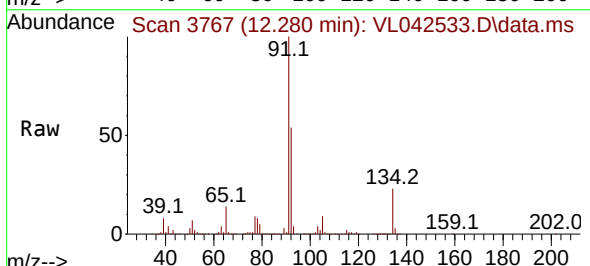
Tgt Ion: 119 Resp: 983988
Ion Ratio Lower Upper
119 100
134 24.3 19.8 29.6
91 29.2 23.6 35.4

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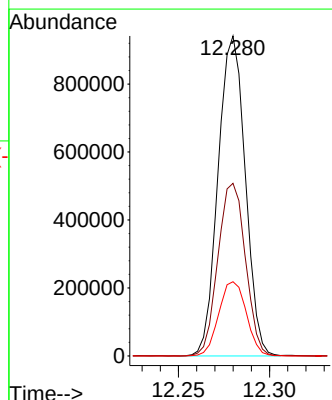
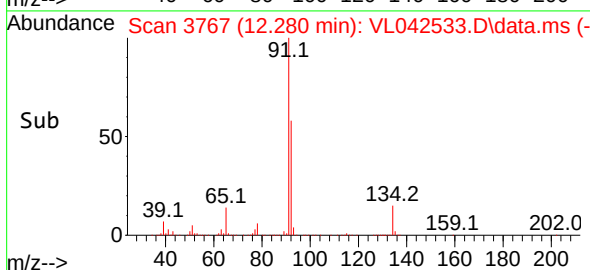
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

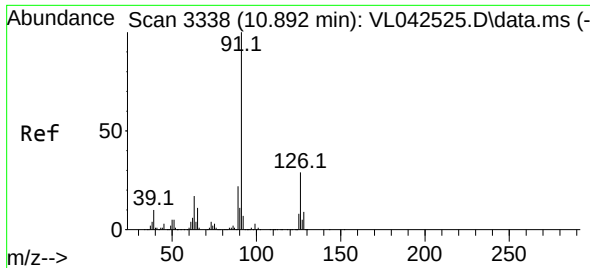


#70
n-Butylbenzene
Concen: 18.295 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. 0.006 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28



Tgt Ion: 91 Resp: 974868
Ion Ratio Lower Upper
91 100
92 54.8 43.7 65.5
134 23.6 18.9 28.3





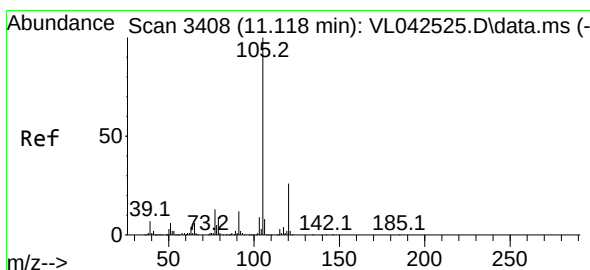
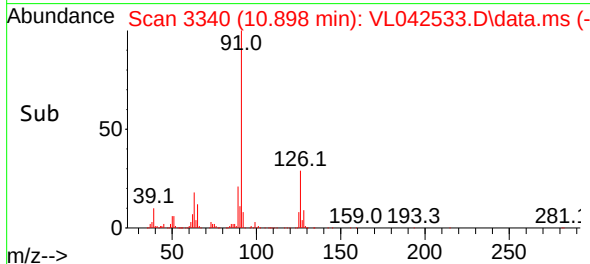
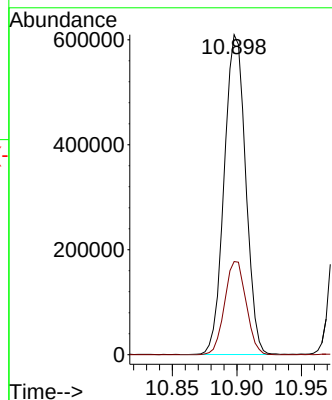
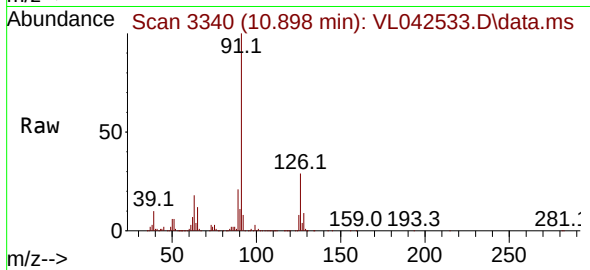
#71
2-Chlorotoluene
Concen: 18.636 ppbv
RT: 10.898 min Scan# 31
Delta R.T. 0.006 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 91 Resp: 70305
Ion Ratio Lower Upper
91 100
126 29.1 11.4 45.6

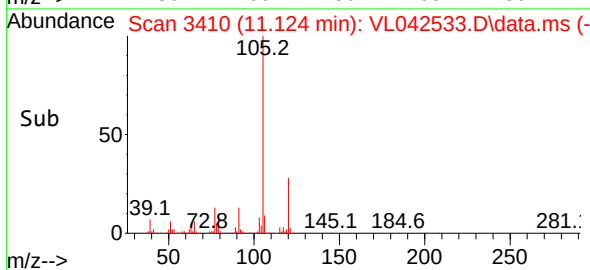
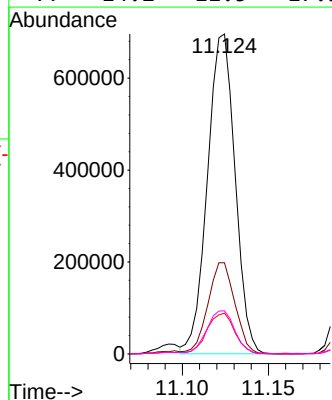
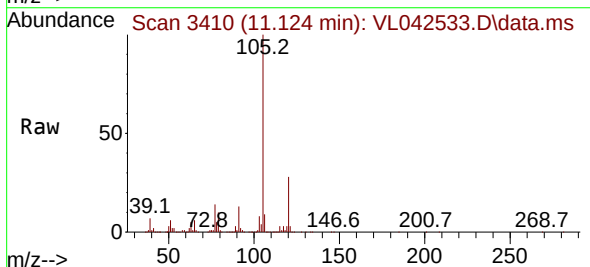
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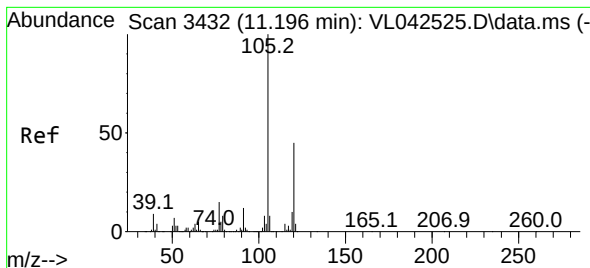
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#72
4-Ethyltoluene
Concen: 18.954 ppbv
RT: 11.124 min Scan# 3410
Delta R.T. 0.006 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

Tgt Ion:105 Resp: 777799
Ion Ratio Lower Upper
105 100
120 28.7 22.9 34.3
91 13.1 10.9 16.3
77 14.2 11.5 17.3





#73

1,3,5-Trimethylbenzene

Concen: 18.296 ppbv

RT: 11.202 min Scan# 3434

Delta R.T. 0.006 min

Lab File: VL042533.D

Acq: 12 May 2025 14:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion:105 Resp: 654009

Ion Ratio Lower Upper

105 100

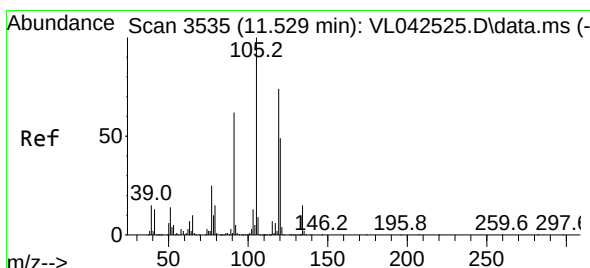
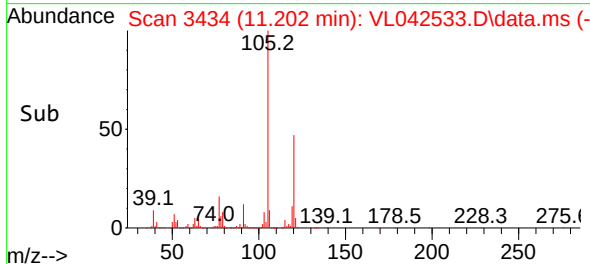
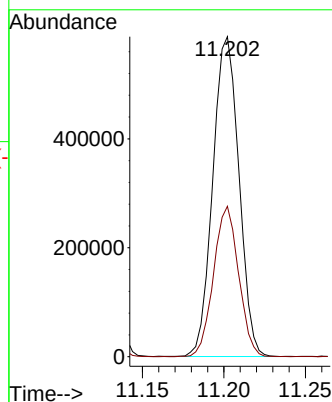
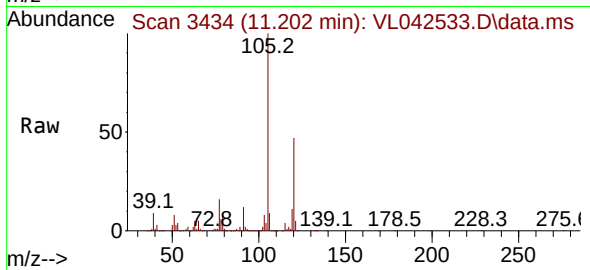
120 47.0 36.0 54.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/14/2025

Supervised By :Mahesh Dadoda 05/14/2025



#74

1,2,4-Trimethylbenzene

Concen: 16.496 ppbv

RT: 11.535 min Scan# 3537

Delta R.T. 0.006 min

Lab File: VL042533.D

Acq: 12 May 2025 14:28

Tgt Ion:105 Resp: 725454

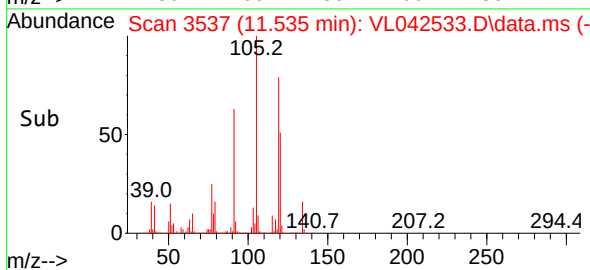
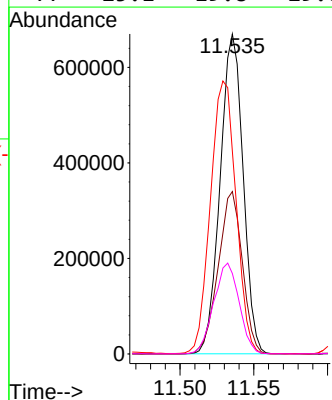
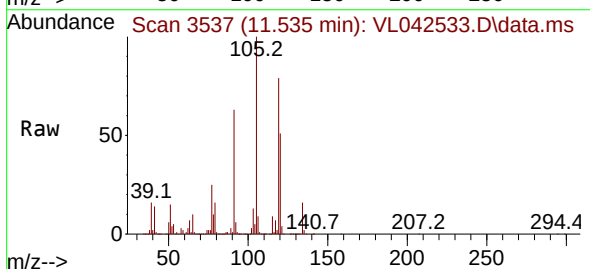
Ion Ratio Lower Upper

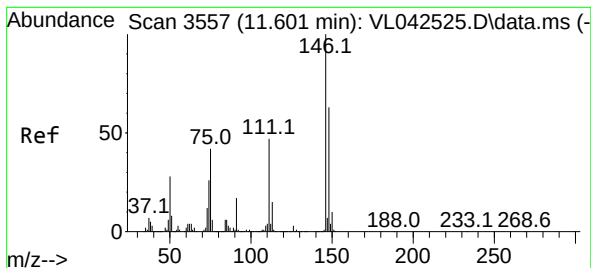
105 100

120 50.8 39.0 58.6

91 63.2 49.4 74.2

77 25.1 19.8 29.6





#75

1,3-Dichlorobenzene

Concen: 15.690 ppbv

RT: 11.607 min Scan# 3557

Delta R.T. 0.006 min

Lab File: VL042533.D

Acq: 12 May 2025 14:28

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC015

Tgt Ion:146 Resp: 432120

Ion Ratio Lower Upper

146 100

111 48.2 23.6 71.0

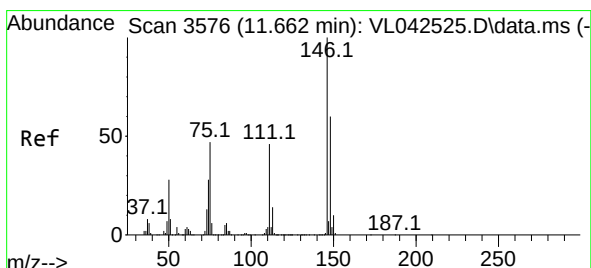
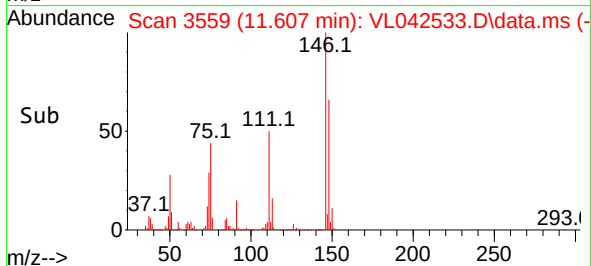
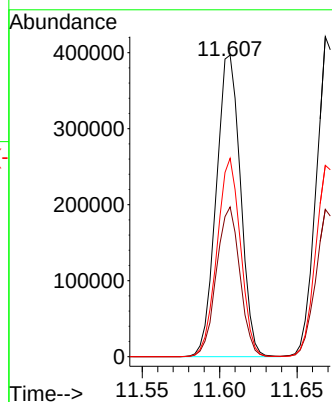
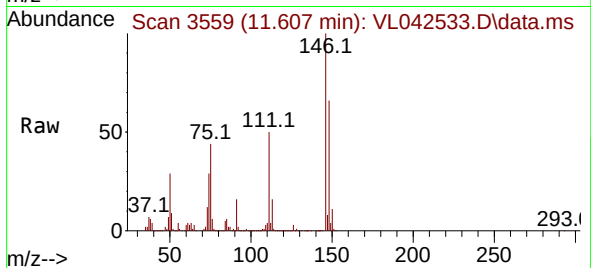
148 63.7 31.6 94.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/14/2025

Supervised By :Mahesh Dadoda 05/14/2025



#76

1,4-Dichlorobenzene

Concen: 16.387 ppbv

RT: 11.668 min Scan# 3578

Delta R.T. 0.006 min

Lab File: VL042533.D

Acq: 12 May 2025 14:28

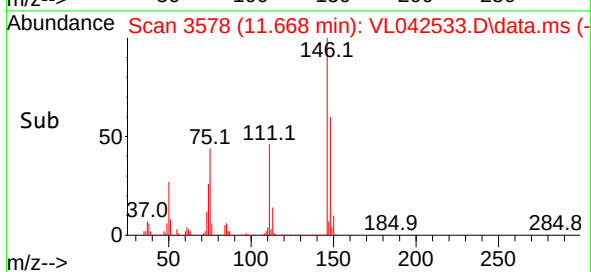
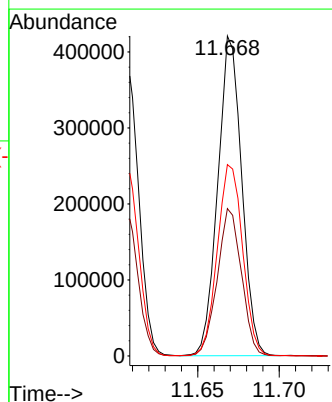
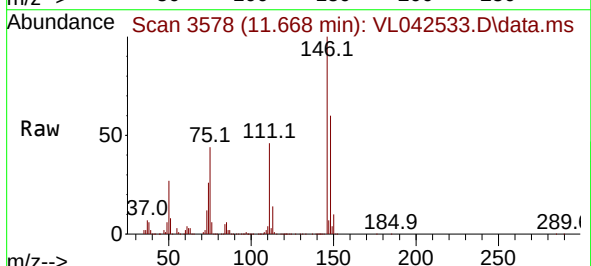
Tgt Ion:146 Resp: 429425

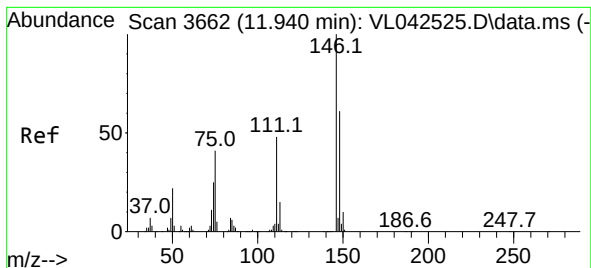
Ion Ratio Lower Upper

146 100

111 46.7 23.4 70.3

148 63.5 31.6 94.7





#77

1,2-Dichlorobenzene

Concen: 14.497 ppbv

RT: 11.947 min Scan# 3662

Delta R.T. 0.006 min

Lab File: VL042533.D

Acq: 12 May 2025 14:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

Tgt Ion:146 Resp: 41245

Ion Ratio Lower Upper

146 100

111 50.0 24.9 74.8

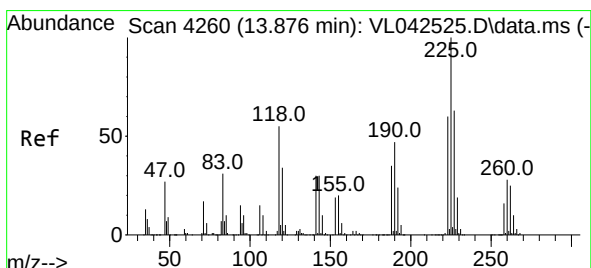
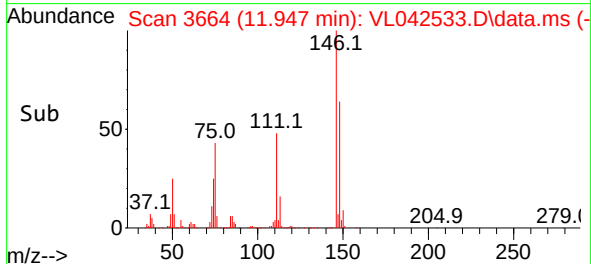
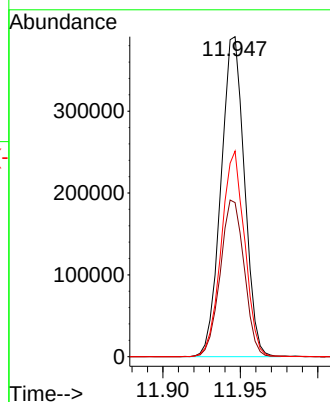
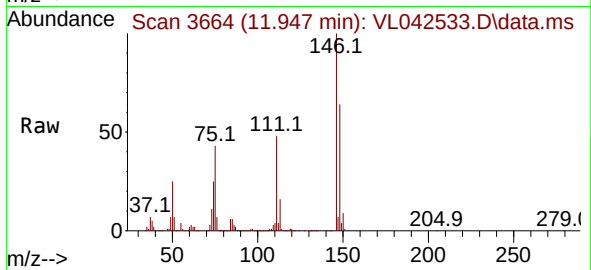
148 64.1 31.4 94.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/14/2025

Supervised By :Mahesh Dadoda 05/14/2025



#78

Hexachloro-1,3-Butadiene

Concen: 13.928 ppbv

RT: 13.879 min Scan# 4261

Delta R.T. 0.003 min

Lab File: VL042533.D

Acq: 12 May 2025 14:28

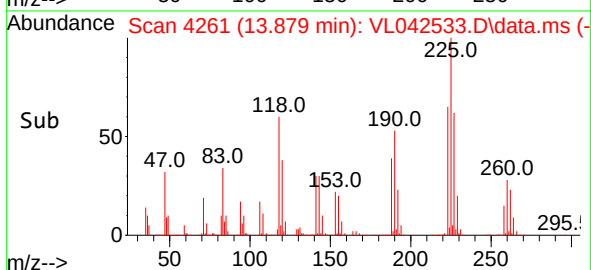
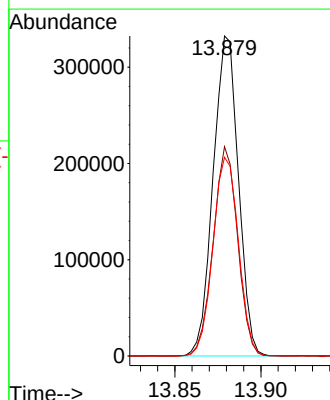
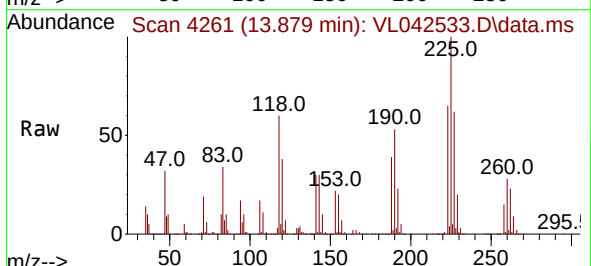
Tgt Ion:225 Resp: 339749

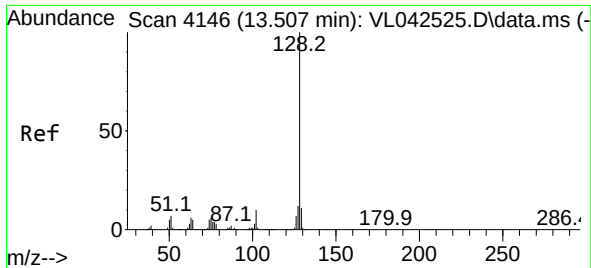
Ion Ratio Lower Upper

225 100

223 63.2 50.8 76.2

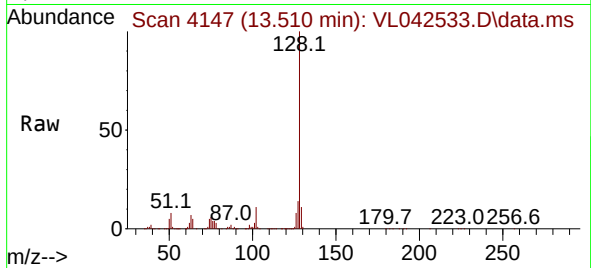
227 62.8 50.5 75.7





#79
Naphthalene
Concen: 23.333 ppbv
RT: 13.510 min Scan# 4146
Delta R.T. 0.003 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

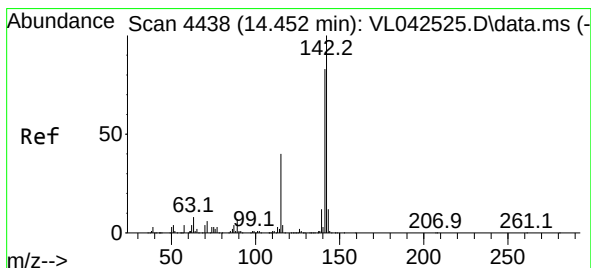
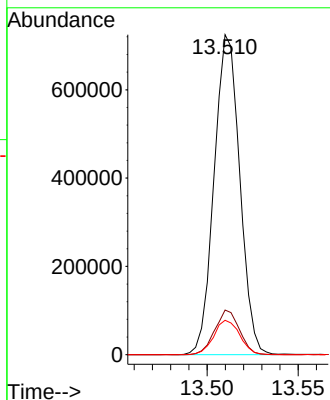
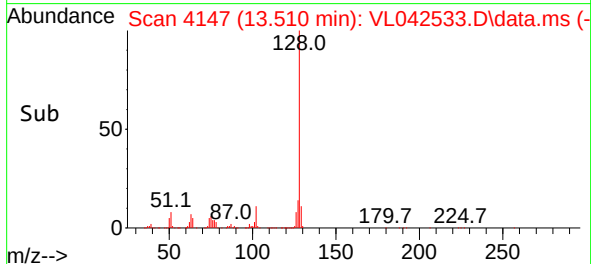
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



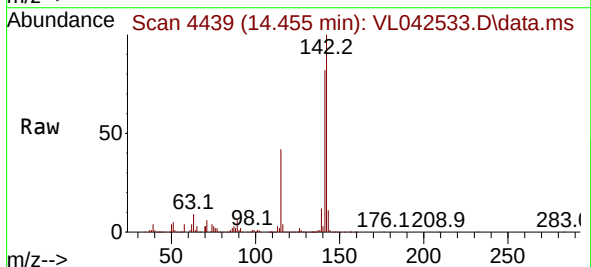
Tgt Ion:128 Resp: 708419
Ion Ratio Lower Upper
128 100
127 13.9 9.8 14.8
129 10.8 8.6 12.8

Manual Integrations
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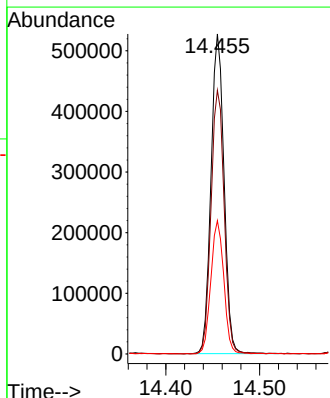
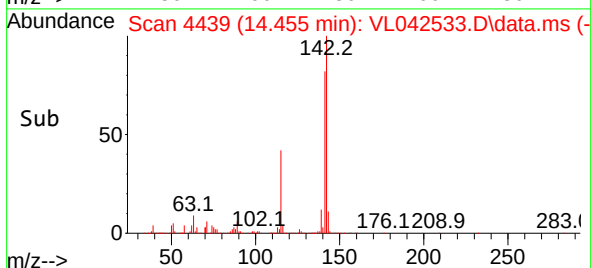
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

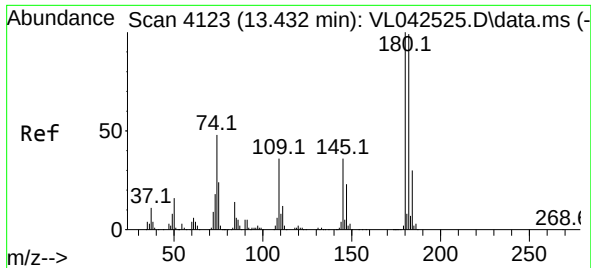


#80
Naphthalene,2-methyl-
Concen: 28.683 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. 0.003 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28



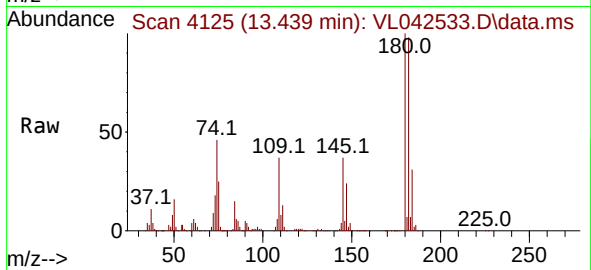
Tgt Ion:142 Resp: 506723
Ion Ratio Lower Upper
142 100
141 84.2 66.8 100.2
115 41.6 33.0 49.6





#81
 1,2,4-Trichlorobenzene
 Concen: 19.904 ppbv
 RT: 13.439 min Scan# 41
 Delta R.T. 0.006 min
 Lab File: VL042533.D
 Acq: 12 May 2025 14:28

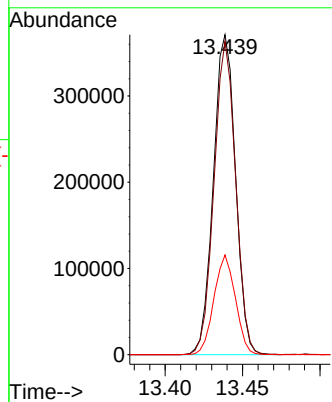
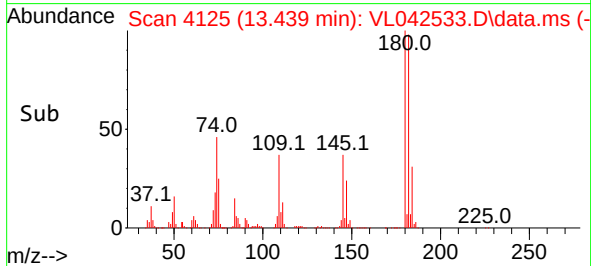
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



Tgt Ion:180 Resp: 368964
 Ion Ratio Lower Upper
 180 100
 182 95.7 76.6 114.8
 184 30.2 24.6 36.8

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051225\
 Data File : VL042534.D
 Acq On : 12 May 2025 16:10
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL051225

Quant Time: May 13 02:12:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025
 QLast Update : Tue May 13 02:07:03 2025
 Response via : Initial Calibration

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Reviewed By : Semsettin Yesilyurt 05/14/2025
 Supervised By : Mahesh Dadoda 05/14/2025

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

Internal Standards						
1) Bromochloromethane	2.781	49	104793	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	308722	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	276426	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	237168	9.861	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.600%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	169352	9.952	ppbv	99
3) Chlorodifluoromethane	1.473	51	179743	10.365	ppbv	99
4) Chloromethane	1.528	50	67307	9.691	ppbv	99
5) Vinyl Chloride	1.577	62	65875	9.270	ppbv	98
6) Bromomethane	1.664	94	33010	9.781	ppbv	96
7) Chloroethane	1.700	64	25071	8.935	ppbv	98
8) Dichlorotetrafluoroethane	1.551	85	141921	9.693	ppbv	99
9) Propene	1.479	41	37590m	9.995	ppbv	
10) Heptane	4.972	43	176857	12.306	ppbv	98
11) Trichlorofluoromethane	1.871	101	160862	9.828	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.133	101	130708	9.942	ppbv	98
13) Ethanol	1.716	45	7859	7.769	ppbv	97
14) Bromoethene	1.777	108	49763	10.383	ppbv	97
15) Acetone	1.832	43	140624	8.325	ppbv	99
16) 1,3-Butadiene	1.606	39	74698	9.920	ppbv	98
17) tert-Butyl alcohol	2.036	59	160597	10.379	ppbv	99
18) 1,1-Dichloroethene	2.030	96	57778	10.028	ppbv	93
19) Isopropyl Alcohol	1.881	45	91861	10.098	ppbv	100
20) Methylene Chloride	2.056	84	50836	8.718	ppbv	97
21) Allyl Chloride	2.091	41	113385	10.227	ppbv	97
22) trans-1,2-Dichloroethene	2.334	96	66384	9.849	ppbv	96
23) Vinyl Acetate	2.457	43	181814	10.371	ppbv #	97
24) 1,1-Dichloroethane	2.402	63	129353	9.919	ppbv	99
25) Ethyl Acetate	2.832	43	335010	11.394	ppbv	99
26) Hexane	2.819	57	145797	12.078	ppbv	98
27) Carbon Disulfide	2.146	76	159609	10.243	ppbv	98
28) Methyl tert-Butyl Ether	2.434	73	71357	10.640	ppbv	98
29) Chloroform	2.842	83	248251	9.916	ppbv	100
30) Cyclohexane	3.849	84	125731	12.687	ppbv	98
31) cis-1,2-Dichloroethene	2.716	61	156337	11.469	ppbv	96
32) 1,1,1-Trichloroethane	3.363	97	260615	10.089	ppbv	99
34) 2-Butanone	2.554	43	215548	10.593	ppbv	99
35) Carbon Tetrachloride	3.755	117	275996	9.944	ppbv	99
36) Benzene	3.648	78	302608	11.060	ppbv	95
37) 1,2-Dichloroethane	3.211	62	197759	10.133	ppbv	99
38) Trichloroethene	4.541	130	124443	10.461	ppbv	92
39) 1,2-Dichloropropane	4.308	63	105794	10.381	ppbv	94
40) 1,4-Dioxane	4.577	88	46856	11.326	ppbv #	98
41) Tetrahydrofuran	3.049	42	108235	12.288	ppbv	98
42) Bromodichloromethane	4.480	83	269411	10.344	ppbv	96
43) Methyl Methacrylate	4.875	69	115023	12.553	ppbv	99
44) 2,2,4-Trimethylpentane	4.629	57	488308	11.264	ppbv	99
45) t-1,3-Dichloropropene	6.406	75	145771	12.452	ppbv	100

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 Data File : VL042534.D
 Acq On : 12 May 2025 16:10
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL051225

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025

Quant Time: May 13 02:12:03 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M

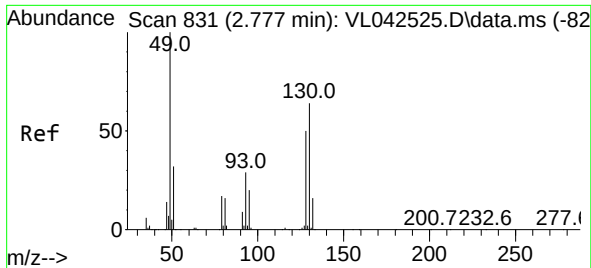
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Tue May 13 02:07:03 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	173741	12.337	ppbv	89
47) 1,1,2-Trichloroethane	6.574	97	122312	10.192	ppbv	95
48) Dibromochloromethane	7.380	129	213991	10.680	ppbv	99
49) Bromoform	9.480	173	179114	10.893	ppbv	99
50) 4-Methyl-2-Pentanone	5.742	43	283584	11.865	ppbv	100
51) 2-Hexanone	7.428	43	234324	13.181	ppbv #	98
52) Tetrachloroethene	8.218	164	108772	10.391	ppbv	92
53) Toluene	6.927	91	336112	12.519	ppbv	99
54) 1,2-Dibromoethane	7.645	107	185157	10.565	ppbv	93
56) 1,1,1,2-Tetrachloroethane	8.920	131	160912	9.389	ppbv	100
57) Chlorobenzene	8.917	112	274500	9.890	ppbv	94
58) Ethyl Benzene	9.351	91	487590	12.941	ppbv	92
59) m/p-Xylene	9.529	91	803149m	24.002	ppbv	
60) o-Xylene	9.959	91	408333	12.495	ppbv	98
61) Styrene	9.866	104	166262	13.737	ppbv	99
62) Isopropylbenzene	10.536	105	589527	11.978	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.959	83	244748	9.228	ppbv	100
64) n-propylbenzene	10.985	120	149858	11.993	ppbv	96
65) tert-Butylbenzene	11.529	119	540642	11.963	ppbv	96
66) Benzyl Chloride	11.610	91	78976	13.151	ppbv	95
67) sec-Butylbenzene	11.765	105	731113	11.283	ppbv	100
69) p-Isopropyltoluene	11.924	119	635040	11.921	ppbv	99
70) n-Butylbenzene	12.277	91	641756	12.192	ppbv	99
71) 2-Chlorotoluene	10.898	91	460416	12.354	ppbv	100
72) 4-Ethyltoluene	11.121	105	504066	12.435	ppbv	99
73) 1,3,5-Trimethylbenzene	11.199	105	420393	11.906	ppbv	97
74) 1,2,4-Trimethylbenzene	11.532	105	477131	10.983	ppbv	91
75) 1,3-Dichlorobenzene	11.604	146	285094	10.479	ppbv	99
76) 1,4-Dichlorobenzene	11.668	146	280324	10.829	ppbv	99
77) 1,2-Dichlorobenzene	11.943	146	269510	9.590	ppbv	100
78) Hexachloro-1,3-Butadiene	13.879	225	223250	9.265	ppbv	99
79) Naphthalene	13.510	128	452623	15.035	ppbv	99
80) Naphthalene,2-methyl-	14.455	142	312897	18.008	ppbv	98
81) 1,2,4-Trichlorobenzene	13.436	180	241524	13.190	ppbv	98

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



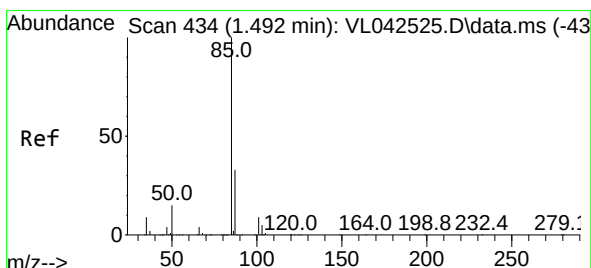
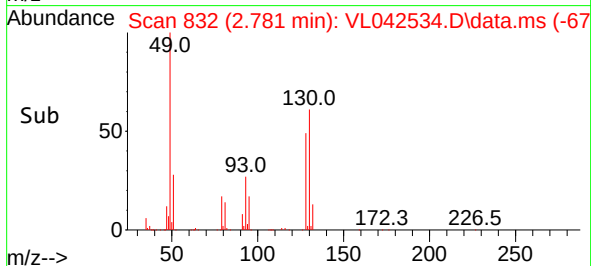
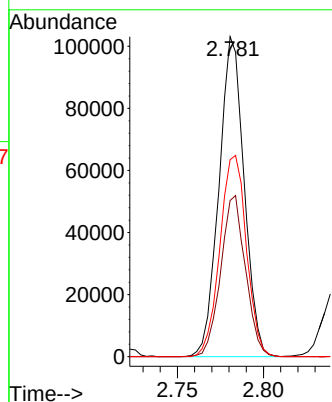
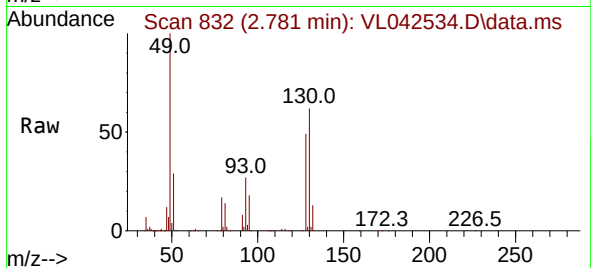
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Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 81
Delta R.T. 0.004 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

Instrument :
MSVOA_L
ClientSampleId :
ICVVL051225

Tgt Ion: 49 Resp: 10479
Ion Ratio Lower Upper
49 100
128 49.6 24.9 74.6
130 66.3 32.5 97.5

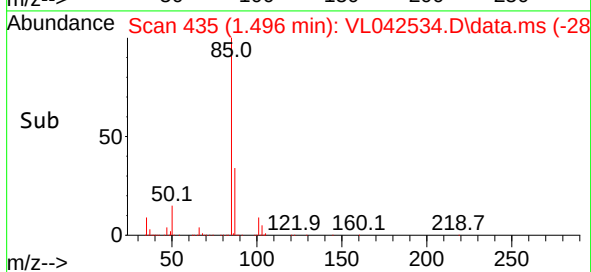
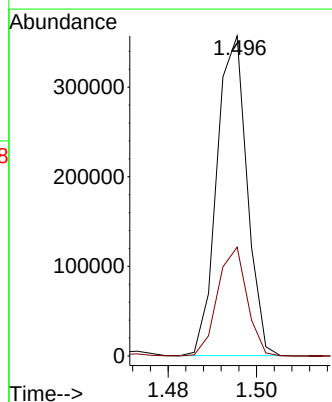
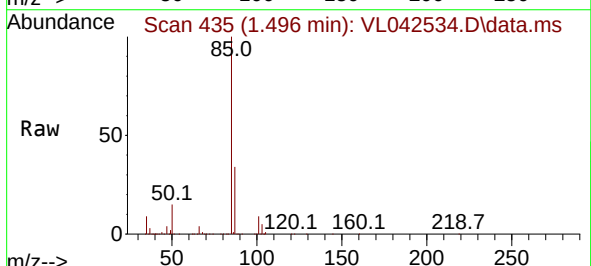
Manual Integrations
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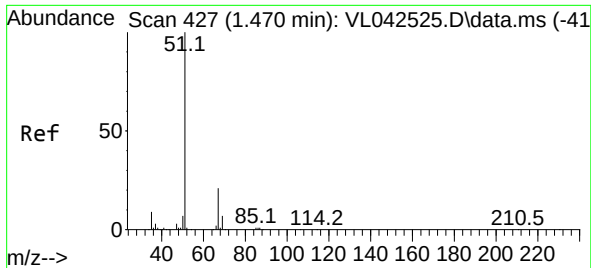
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#2
Dichlorodifluoromethane
Concen: 9.952 ppbv
RT: 1.496 min Scan# 435
Delta R.T. 0.003 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

Tgt Ion: 85 Resp: 169352
Ion Ratio Lower Upper
85 100
87 34.0 26.8 40.2





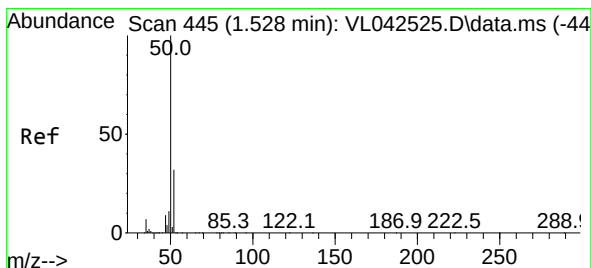
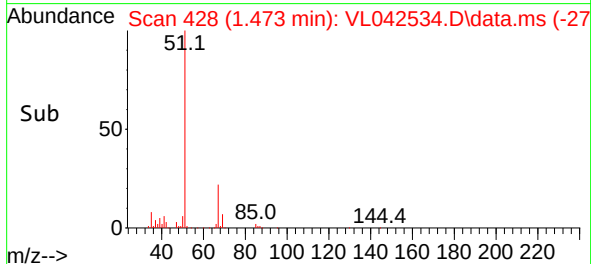
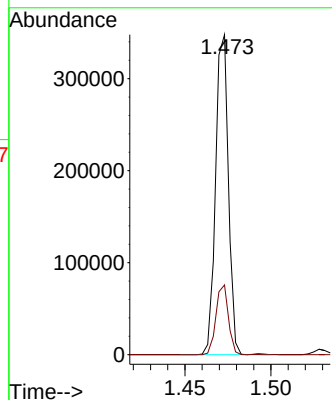
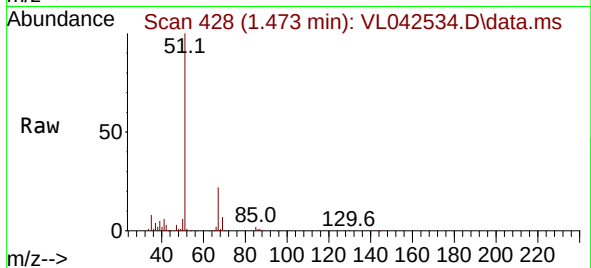
#3
Chlorodifluoromethane
Concen: 10.365 ppbv
RT: 1.473 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

Instrument :
MSVOA_L
ClientSampleId :
ICVVL051225

Tgt Ion: 51 Resp: 17974
Ion Ratio Lower Upper
51 100
67 21.1 17.4 26.0

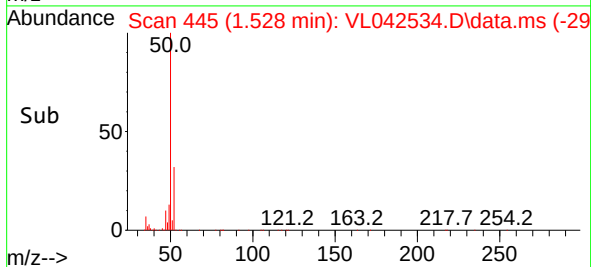
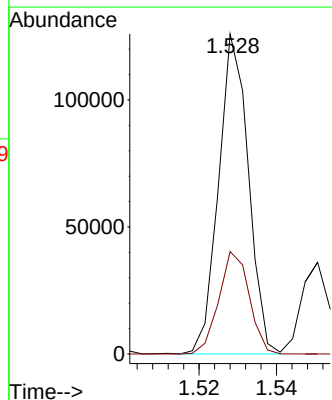
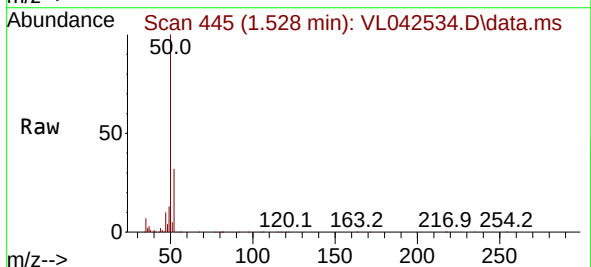
Manual Integrations
APPROVED

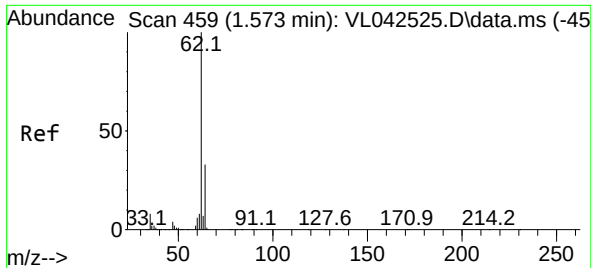
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#4
Chloromethane
Concen: 9.691 ppbv
RT: 1.528 min Scan# 445
Delta R.T. -0.000 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

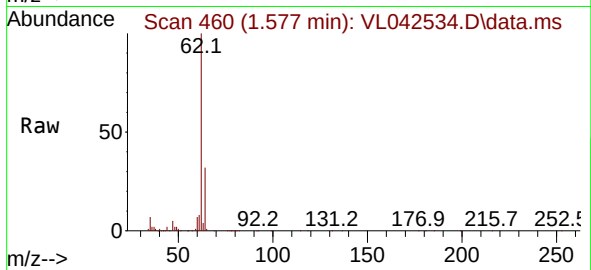
Tgt Ion: 50 Resp: 67307
Ion Ratio Lower Upper
50 100
52 32.0 25.9 38.9





#5
 Vinyl Chloride
 Concen: 9.270 ppbv
 RT: 1.577 min Scan# 459
 Delta R.T. 0.003 min
 Lab File: VL042534.D
 Acq: 12 May 2025 16:10

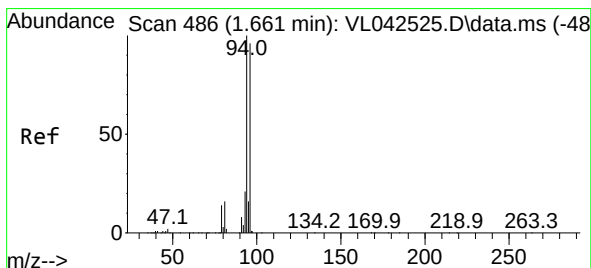
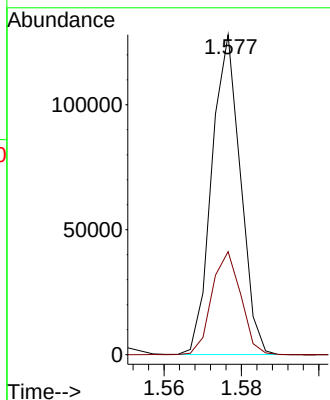
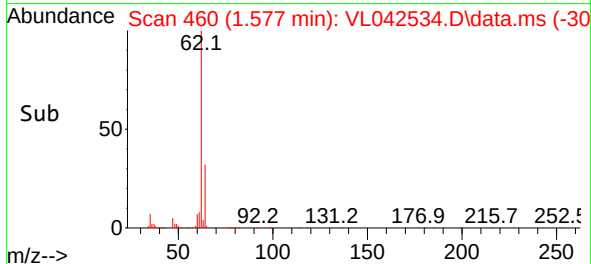
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL051225



Tgt Ion: 62 Resp: 65879
 Ion Ratio Lower Upper
 62 100
 64 32.2 26.5 39.7

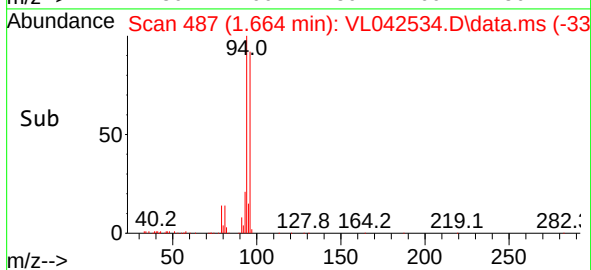
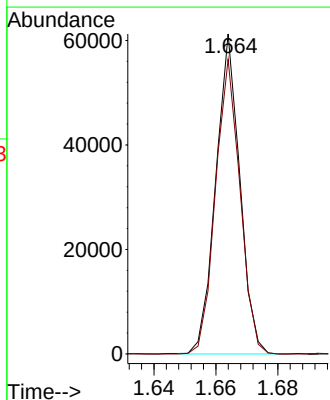
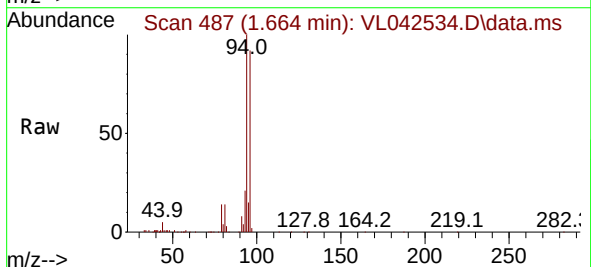
Manual Integrations
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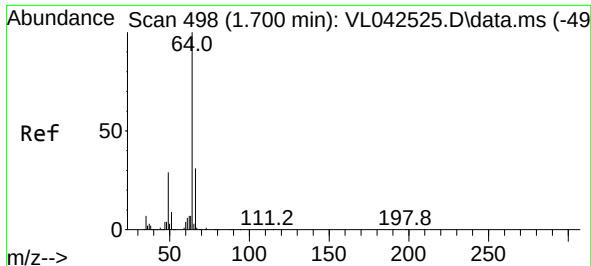
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025



#6
 Bromomethane
 Concen: 9.781 ppbv
 RT: 1.664 min Scan# 487
 Delta R.T. 0.003 min
 Lab File: VL042534.D
 Acq: 12 May 2025 16:10

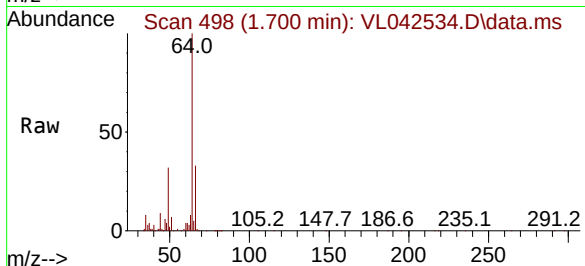
Tgt Ion: 94 Resp: 33010
 Ion Ratio Lower Upper
 94 100
 96 92.1 76.9 115.3





#7
Chloroethane
Concen: 8.935 ppbv
RT: 1.700 min Scan# 498
Delta R.T. -0.000 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

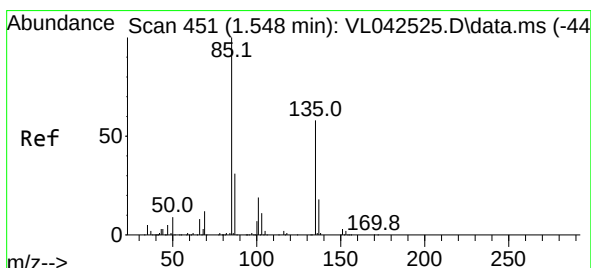
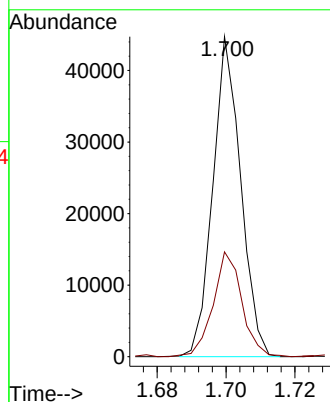
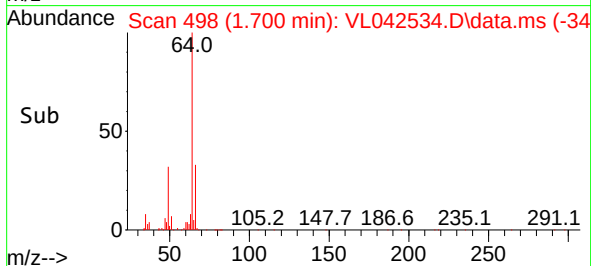
Instrument :
MSVOA_L
ClientSampleId :
ICVVL051225



Tgt Ion: 64 Resp: 2507
Ion Ratio Lower Upper
64 100
66 32.8 25.1 37.7

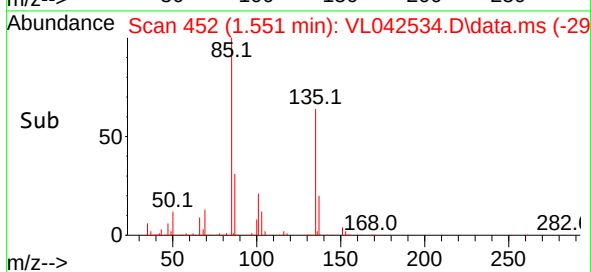
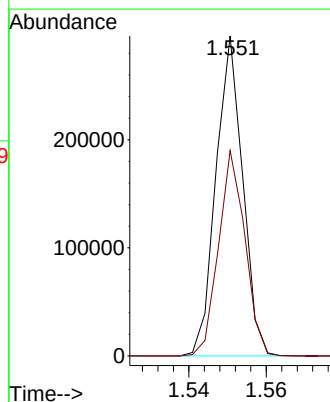
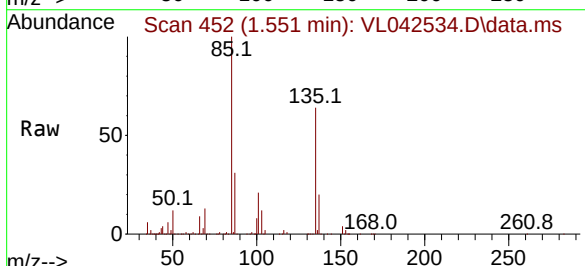
Manual Integrations
APPROVED

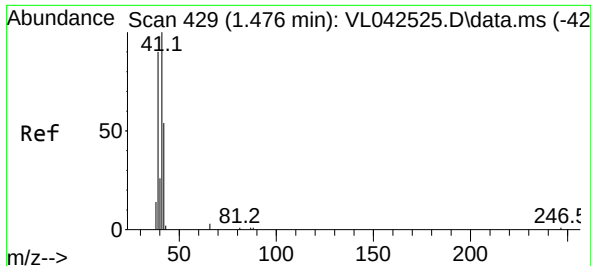
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#8
Dichlorotetrafluoroethane
Concen: 9.693 ppbv
RT: 1.551 min Scan# 452
Delta R.T. 0.003 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

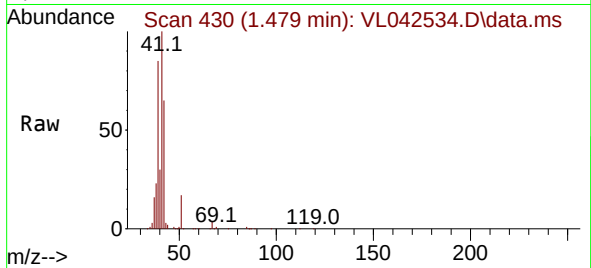
Tgt Ion: 85 Resp: 141921
Ion Ratio Lower Upper
85 100
135 63.7 51.8 77.8





#9
Propene
Concen: 9.995 ppbv m
RT: 1.479 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

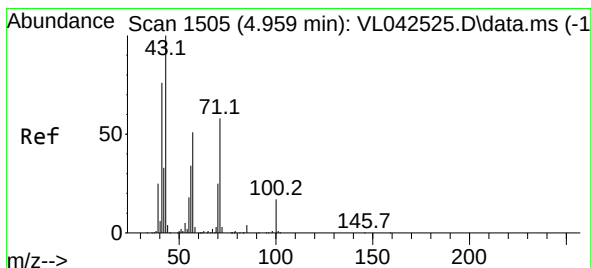
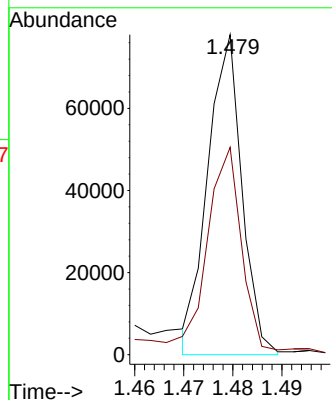
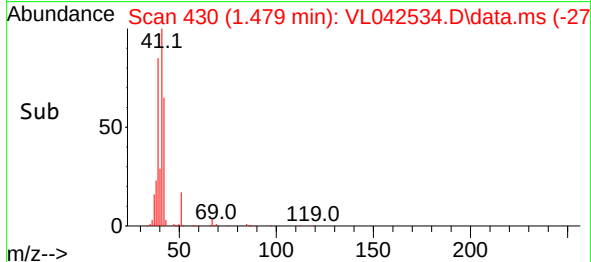
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ClientSampleId :
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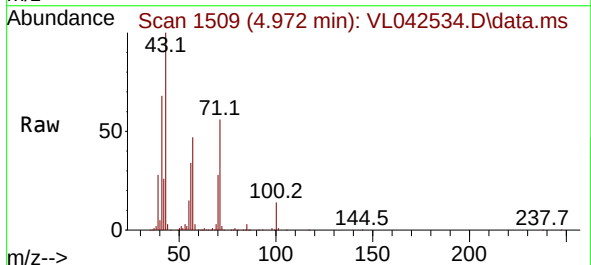
Tgt Ion: 41 Resp: 37590
Ion Ratio Lower Upper
41 100
42 7.2 4.1 6.1

Manual Integrations
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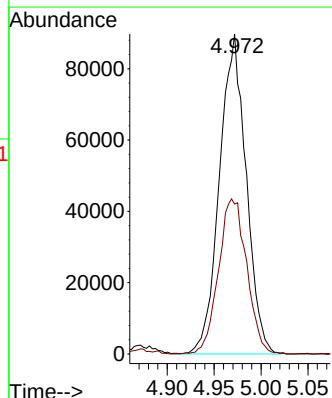
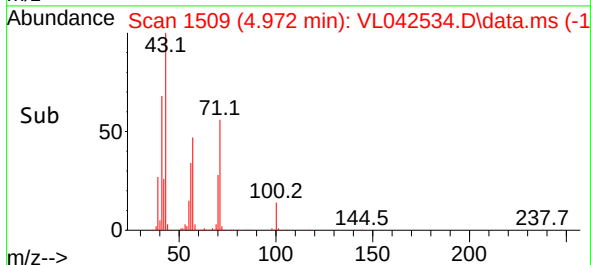
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

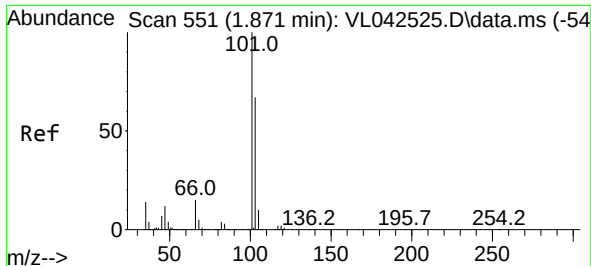


#10
Heptane
Concen: 12.306 ppbv
RT: 4.972 min Scan# 1509
Delta R.T. 0.013 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10



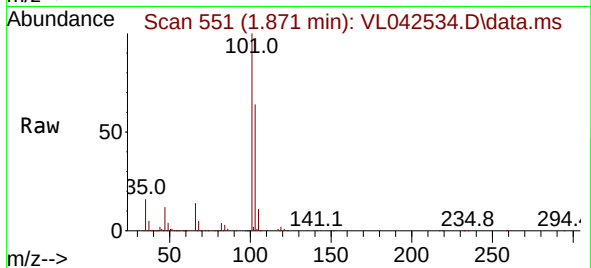
Tgt Ion: 43 Resp: 176857
Ion Ratio Lower Upper
43 100
57 51.4 42.1 63.1





#11
 Trichlorofluoromethane
 Concen: 9.828 ppbv
 RT: 1.871 min Scan# 551
 Delta R.T. -0.000 min
 Lab File: VL042534.D
 Acq: 12 May 2025 16:10

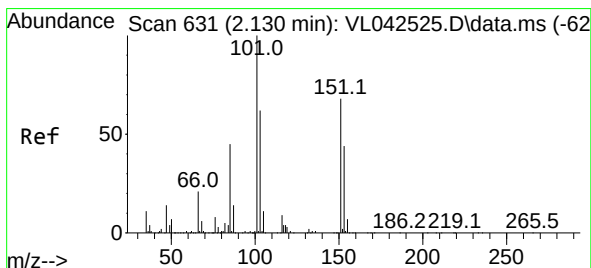
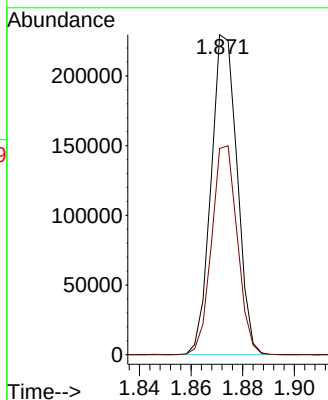
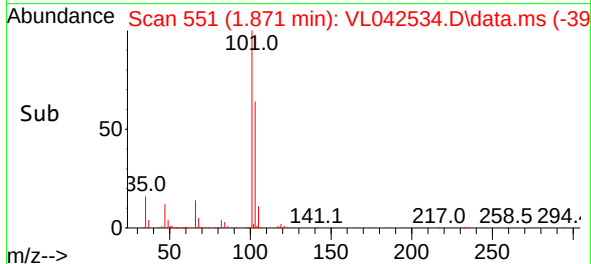
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 ClientSampleId : ICVVL051225



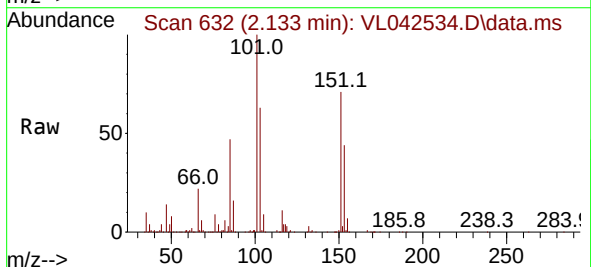
Tgt Ion:101 Resp: 160862
 Ion Ratio Lower Upper
 101 100
 103 64.5 53.8 80.6

Manual Integrations
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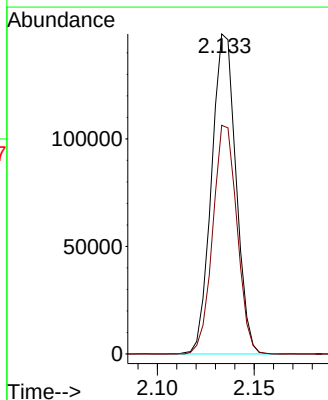
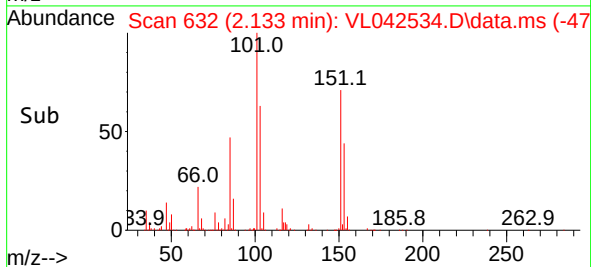
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025

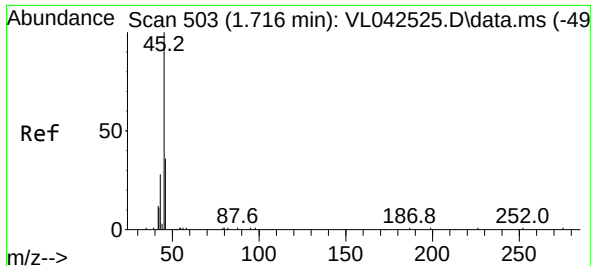


#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.942 ppbv
 RT: 2.133 min Scan# 632
 Delta R.T. 0.003 min
 Lab File: VL042534.D
 Acq: 12 May 2025 16:10



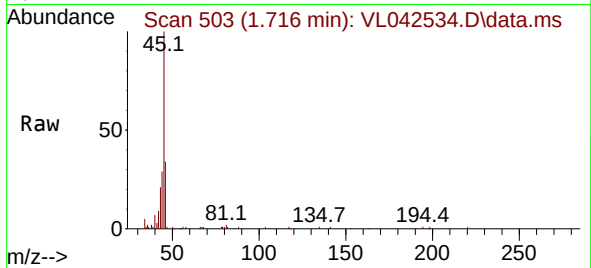
Tgt Ion:101 Resp: 130708
 Ion Ratio Lower Upper
 101 100
 151 70.7 57.8 86.8





#13
Ethanol
Concen: 7.769 ppbv
RT: 1.716 min Scan# 503
Delta R.T. -0.000 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

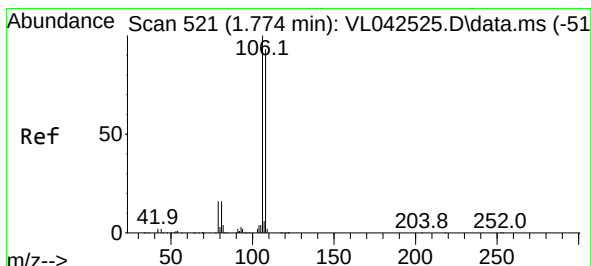
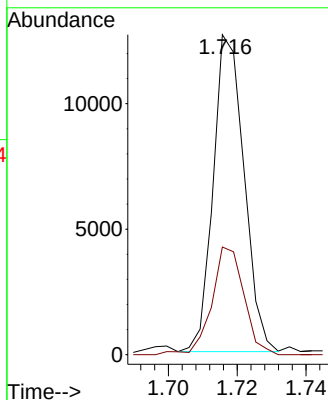
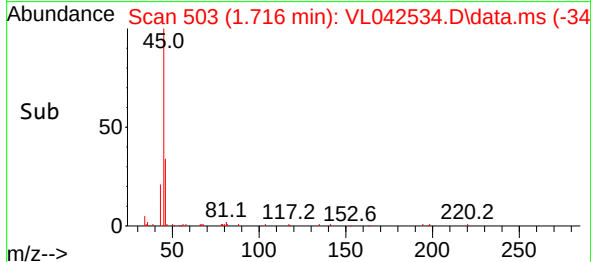
Instrument :
MSVOA_L
ClientSampleId :
ICVVL051225



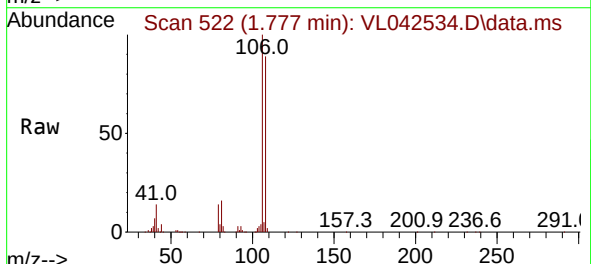
Tgt Ion: 45 Resp: 7859
Ion Ratio Lower Upper
45 100
46 35.4 14.8 59.4

Manual Integrations
APPROVED

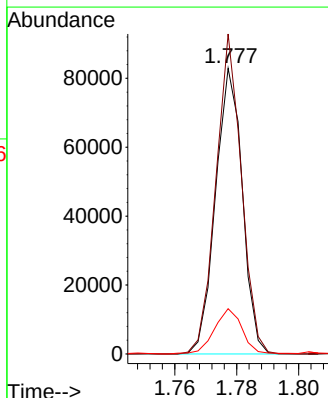
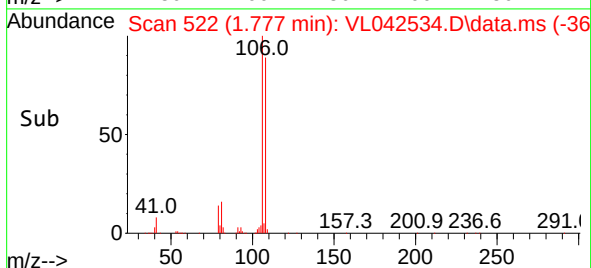
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

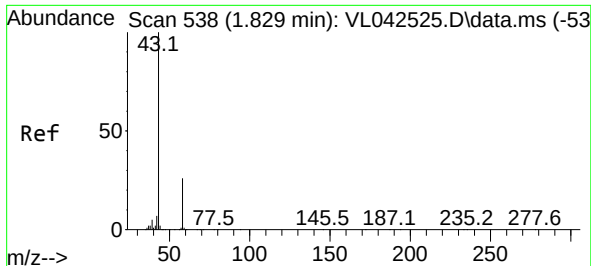


#14
Bromoethene
Concen: 10.383 ppbv
RT: 1.777 min Scan# 522
Delta R.T. 0.003 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10



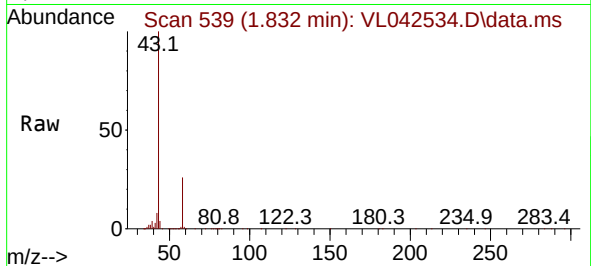
Tgt Ion:108 Resp: 49763
Ion Ratio Lower Upper
108 100
106 106.9 87.4 131.2
79 16.0 15.1 22.7





#15
Acetone
Concen: 8.325 ppbv
RT: 1.832 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

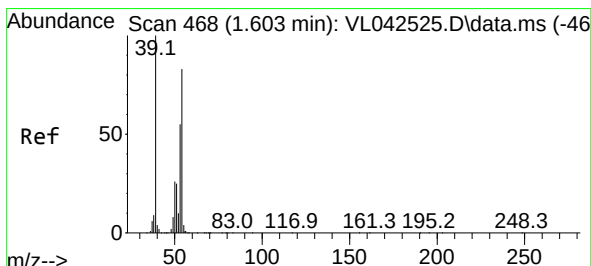
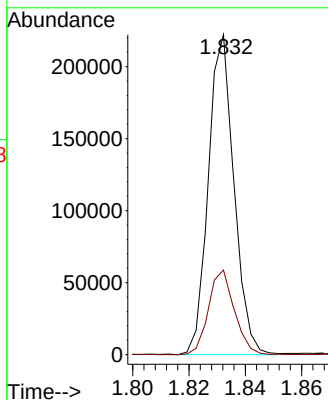
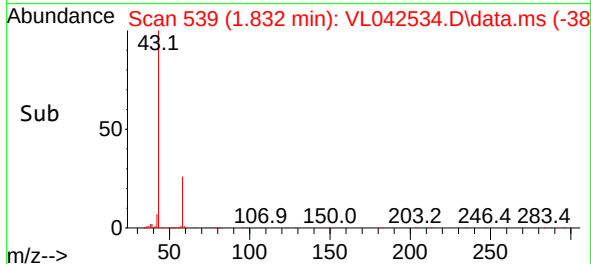
Instrument :
MSVOA_L
ClientSampleId :
ICVVL051225



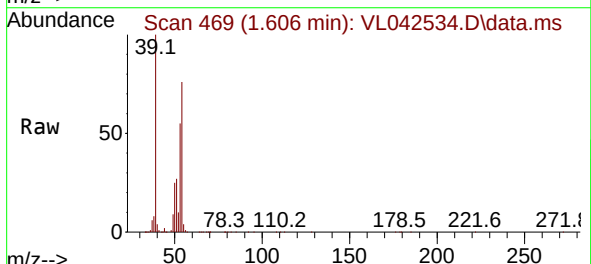
Tgt Ion: 43 Resp: 140624
Ion Ratio Lower Upper
43 100
58 26.9 21.3 31.9

Manual Integrations
APPROVED

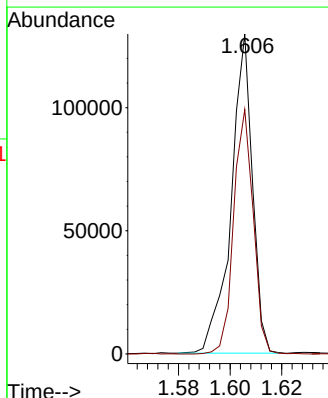
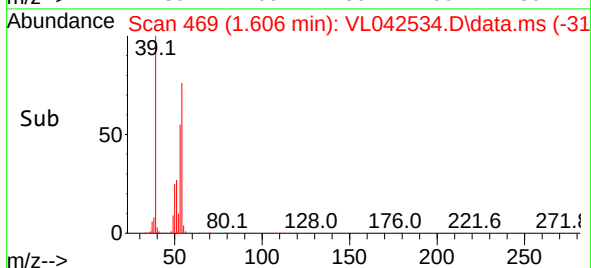
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

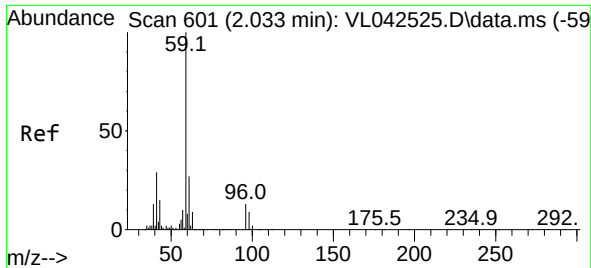


#16
1,3-Butadiene
Concen: 9.920 ppbv
RT: 1.606 min Scan# 469
Delta R.T. 0.003 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10



Tgt Ion: 39 Resp: 74698
Ion Ratio Lower Upper
39 100
54 70.3 57.8 86.6





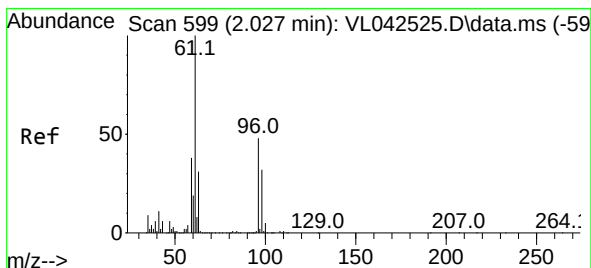
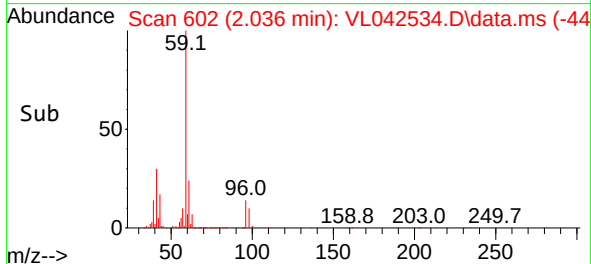
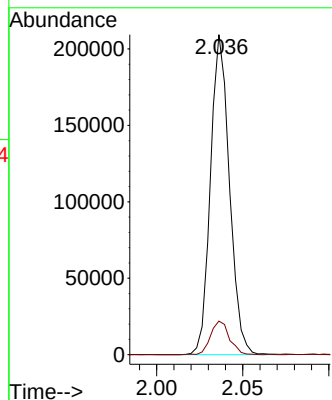
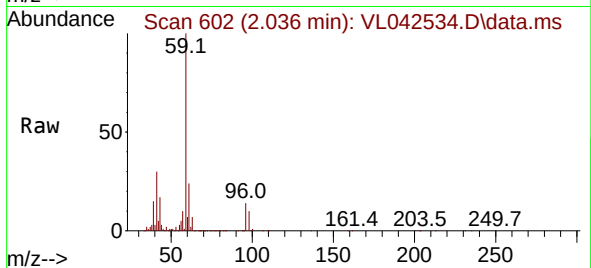
#17
tert-Butyl alcohol
Concen: 10.379 ppbv
RT: 2.036 min Scan# 601
Delta R.T. 0.003 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

Instrument :
MSVOA_L
ClientSampleId :
ICVVL051225

Tgt Ion: 59 Resp: 160597
Ion Ratio Lower Upper
59 100
57 10.5 8.2 12.4

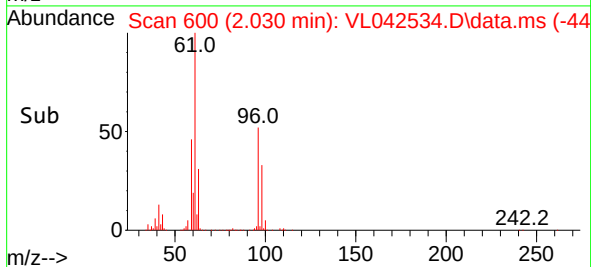
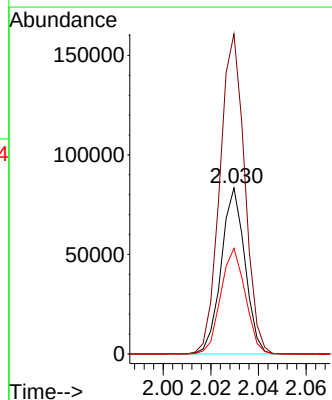
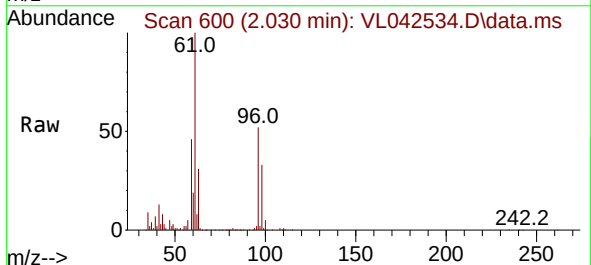
Manual Integrations
APPROVED

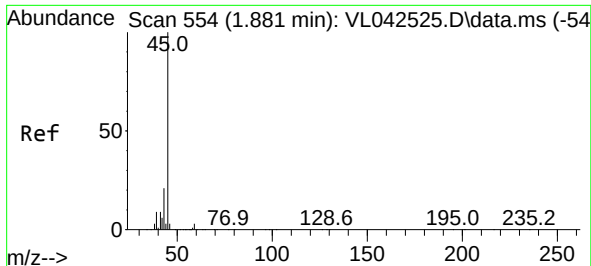
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#18
1,1-Dichloroethene
Concen: 10.028 ppbv
RT: 2.030 min Scan# 600
Delta R.T. 0.003 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

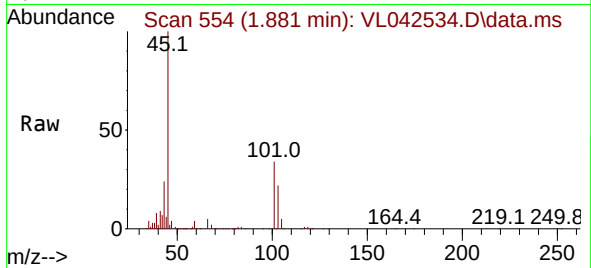
Tgt Ion: 96 Resp: 57778
Ion Ratio Lower Upper
96 100
61 192.6 165.0 247.4
98 63.4 52.6 79.0





#19
Isopropyl Alcohol
Concen: 10.098 ppbv
RT: 1.881 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

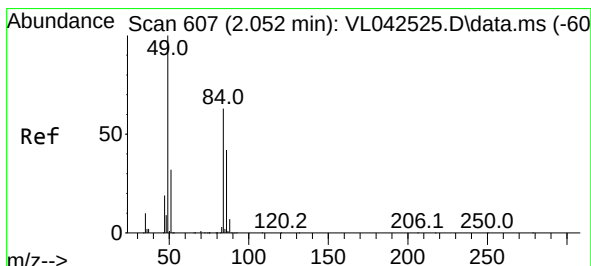
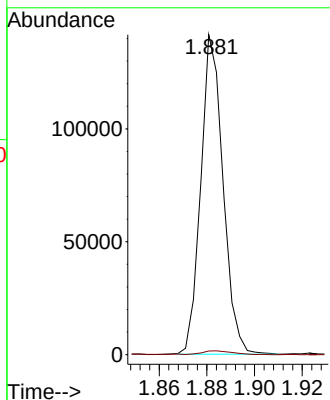
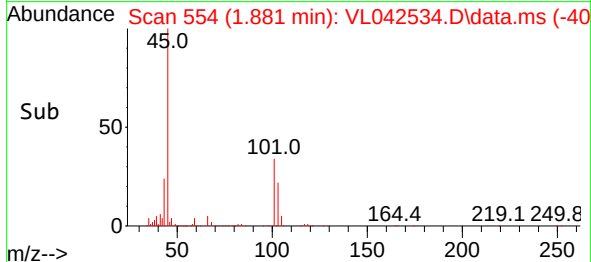
Instrument :
MSVOA_L
ClientSampleId :
ICVVL051225



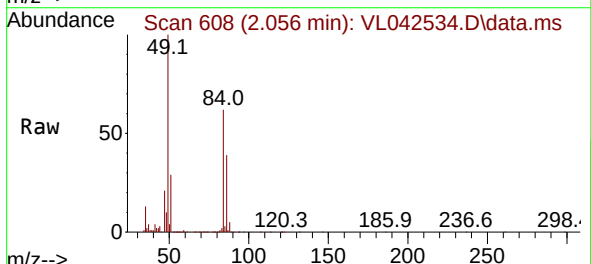
Tgt Ion: 45 Resp: 9186
Ion Ratio Lower Upper
45 100
58 1.9 1.5 2.3

Manual Integrations
APPROVED

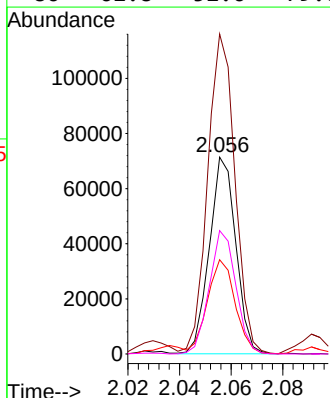
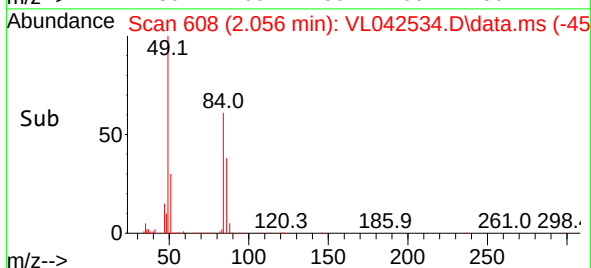
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

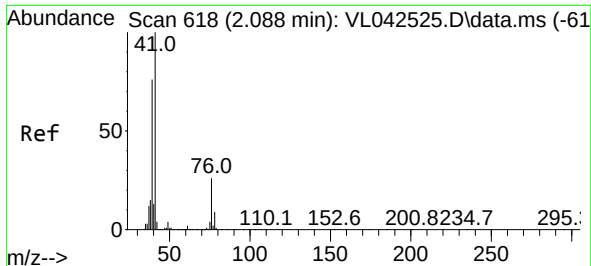


#20
Methylene Chloride
Concen: 8.718 ppbv
RT: 2.056 min Scan# 608
Delta R.T. 0.003 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10



Tgt Ion: 84 Resp: 50836
Ion Ratio Lower Upper
84 100
49 162.7 128.2 192.4
51 47.7 41.7 62.5
86 62.8 52.6 79.0





#21

Allyl Chloride

Concen: 10.227 ppbv

RT: 2.091 min Scan# 618

Delta R.T. 0.003 min

Lab File: VL042534.D

Acq: 12 May 2025 16:10

Instrument :

MSVOA_L

ClientSampleId :

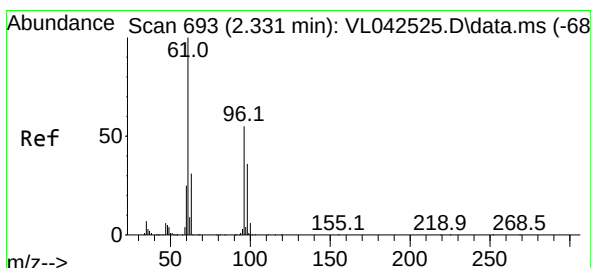
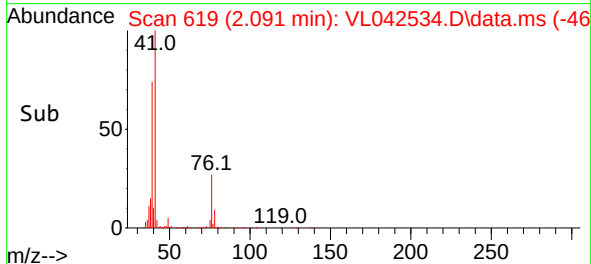
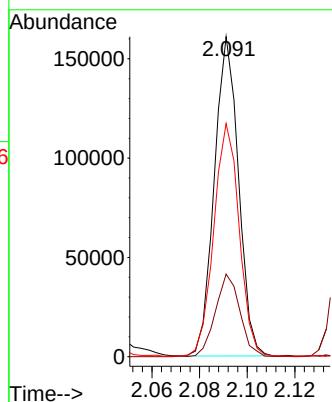
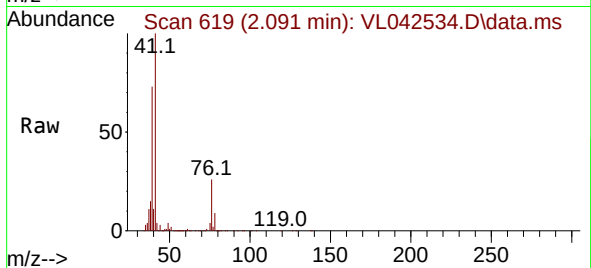
ICVVL051225

Tgt Ion:	41	Resp:	11338
Ion Ratio	Lower	Upper	
41	100		
76	26.3	22.0	33.0
39	76.7	59.5	89.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#22

trans-1,2-Dichloroethene

Concen: 9.849 ppbv

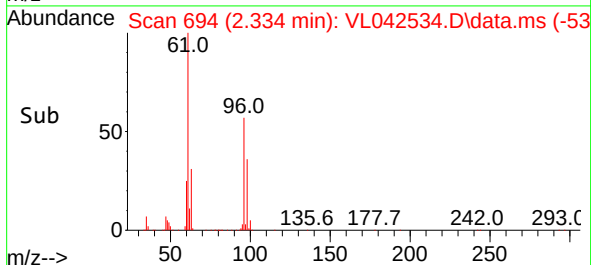
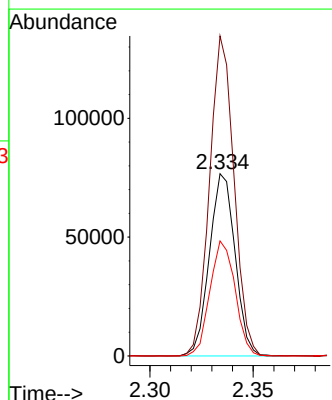
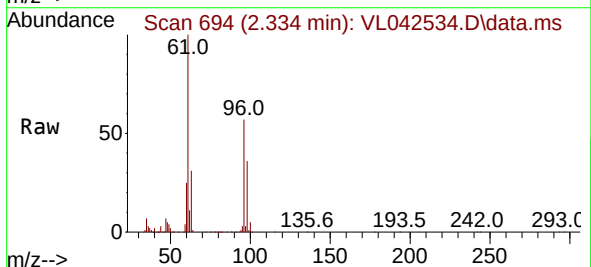
RT: 2.334 min Scan# 694

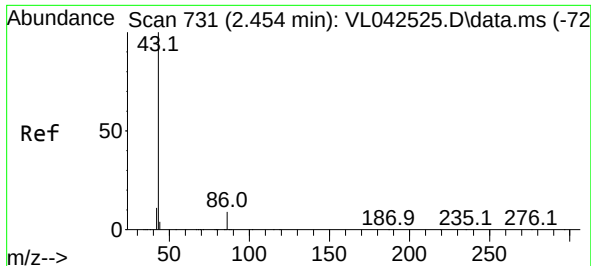
Delta R.T. 0.003 min

Lab File: VL042534.D

Acq: 12 May 2025 16:10

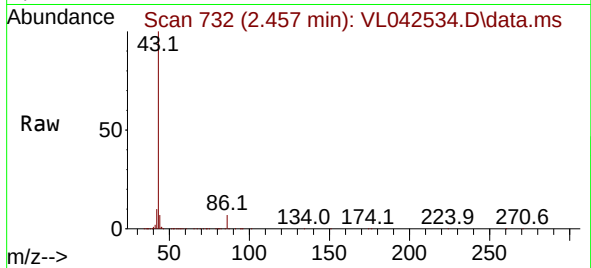
Tgt Ion:	96	Resp:	66384
Ion Ratio	Lower	Upper	
96	100		
61	175.4	145.9	218.9
98	63.2	52.2	78.4





#23
 Vinyl Acetate
 Concen: 10.371 ppbv
 RT: 2.457 min Scan# 714
 Delta R.T. 0.003 min
 Lab File: VL042534.D
 Acq: 12 May 2025 16:10

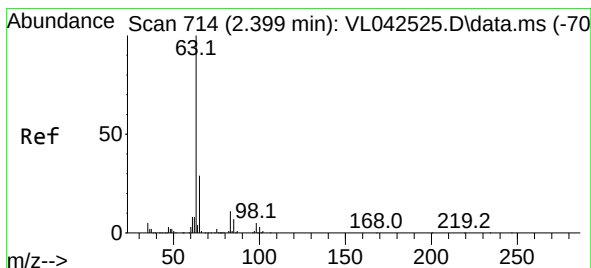
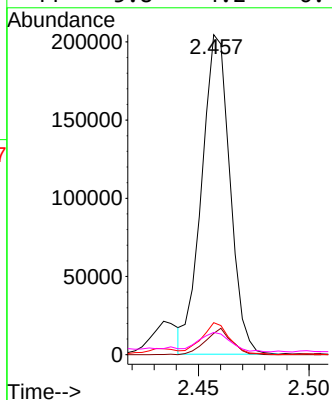
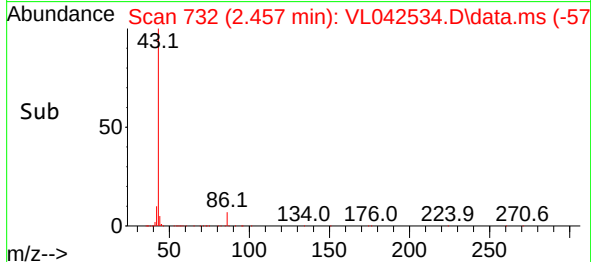
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL051225



Tgt Ion: 43 Resp: 181814
 Ion Ratio Lower Upper
 43 100
 86 6.7 6.8 10.2
 42 10.0 8.8 13.2
 44 5.8 4.2 6.4

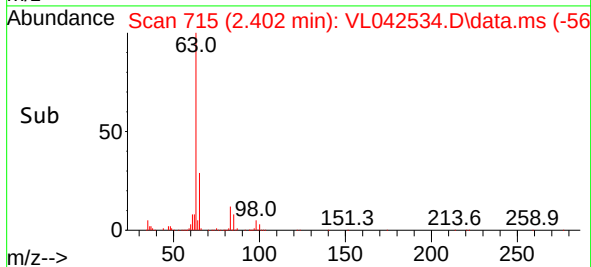
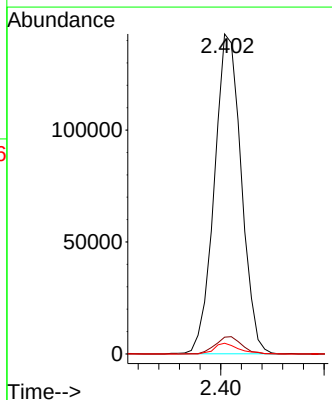
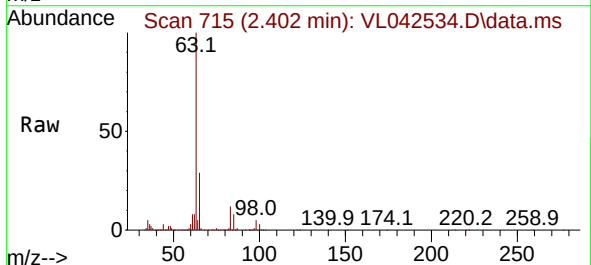
Manual Integrations
 APPROVED

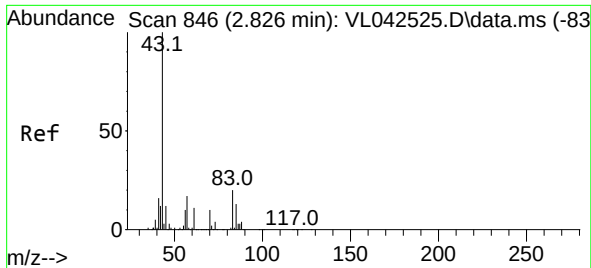
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025



#24
 1,1-Dichloroethane
 Concen: 9.919 ppbv
 RT: 2.402 min Scan# 715
 Delta R.T. 0.003 min
 Lab File: VL042534.D
 Acq: 12 May 2025 16:10

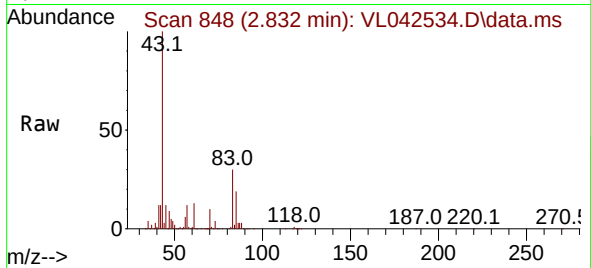
Tgt Ion: 63 Resp: 129353
 Ion Ratio Lower Upper
 63 100
 98 5.3 2.6 8.0
 100 3.4 1.4 4.2





#25
Ethyl Acetate
Concen: 11.394 ppbv
RT: 2.832 min Scan# 846
Delta R.T. 0.006 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

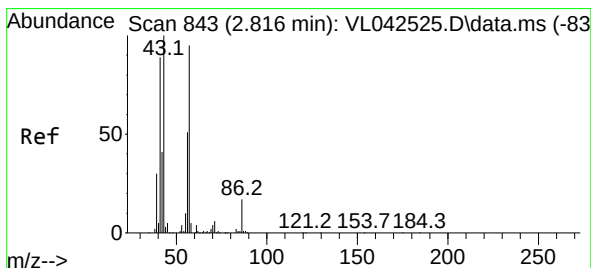
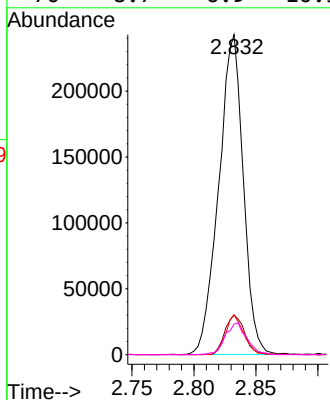
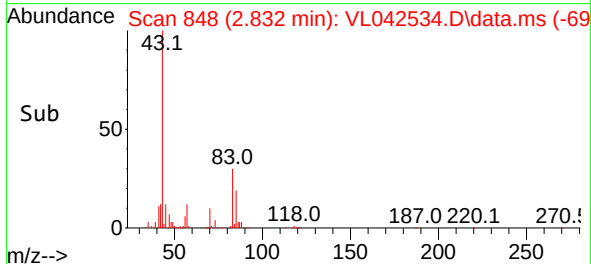
Instrument :
MSVOA_L
ClientSampleId :
ICVVL051225



Tgt Ion: 43 Resp: 335010
Ion Ratio Lower Upper
43 100
45 10.1 7.9 11.9
61 9.3 7.1 10.7
70 8.7 6.9 10.3

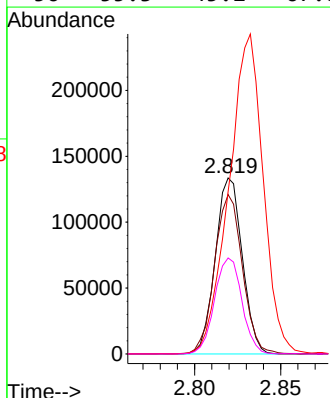
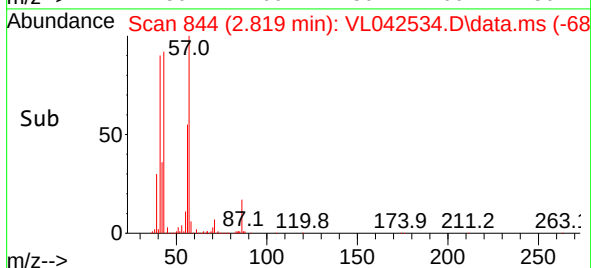
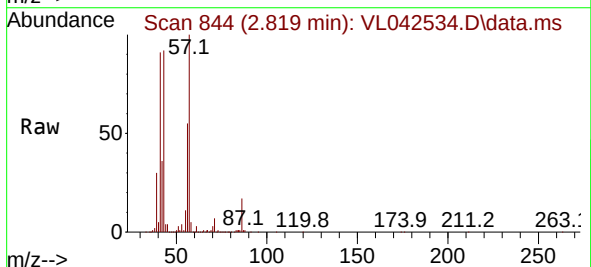
Manual Integrations
APPROVED

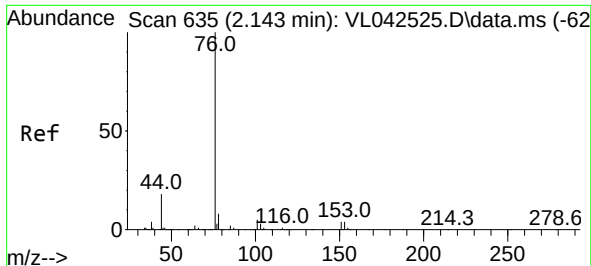
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#26
Hexane
Concen: 12.078 ppbv
RT: 2.819 min Scan# 844
Delta R.T. 0.003 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

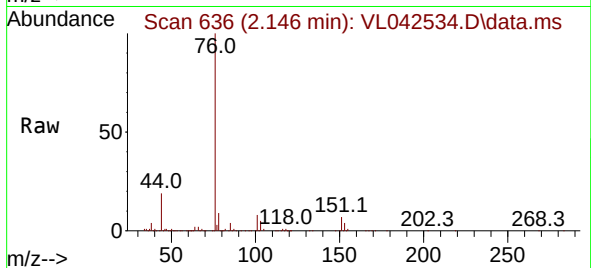
Tgt Ion: 57 Resp: 145797
Ion Ratio Lower Upper
57 100
41 93.6 76.1 114.1
43 231.0 188.9 283.3
56 55.3 45.2 67.8





#27
Carbon Disulfide
Concen: 10.243 ppbv
RT: 2.146 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

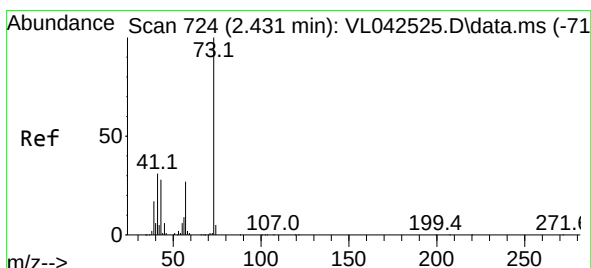
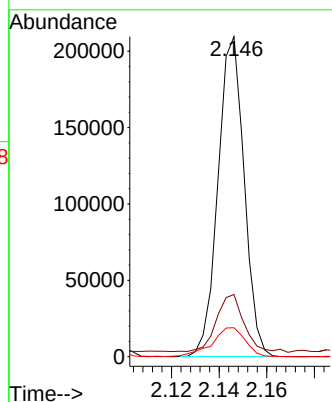
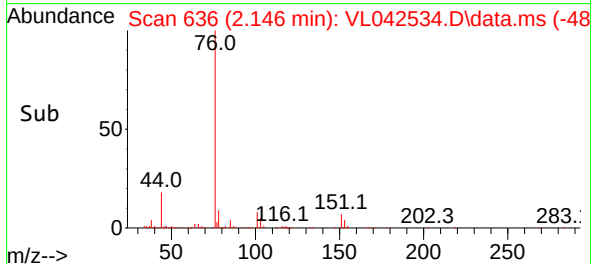
Instrument :
MSVOA_L
ClientSampleId :
ICVVL051225



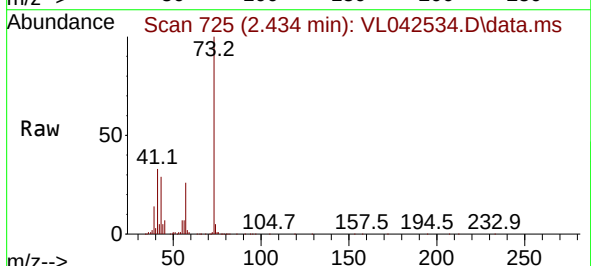
Tgt Ion: 76 Resp: 159609
Ion Ratio Lower Upper
76 100
44 20.5 17.1 25.7
78 11.6 8.6 12.8

Manual Integrations
APPROVED

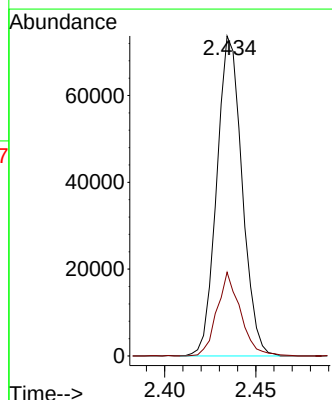
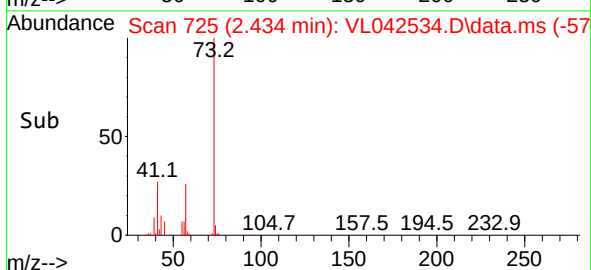
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

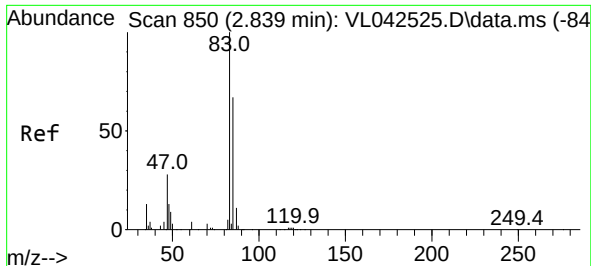


#28
Methyl tert-Butyl Ether
Concen: 10.640 ppbv
RT: 2.434 min Scan# 725
Delta R.T. 0.003 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10



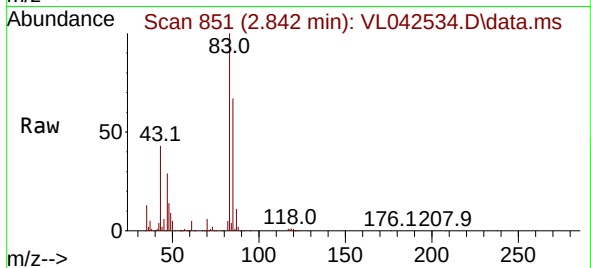
Tgt Ion: 73 Resp: 71357
Ion Ratio Lower Upper
73 100
57 24.4 20.3 30.5





#29
Chloroform
Concen: 9.916 ppbv
RT: 2.842 min Scan# 851
Delta R.T. 0.003 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

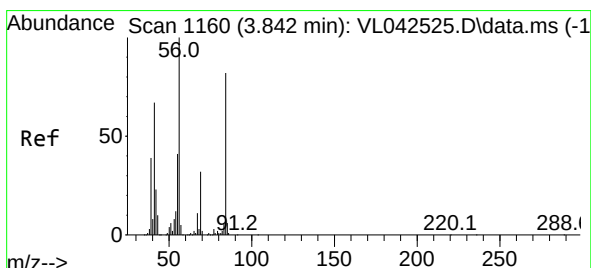
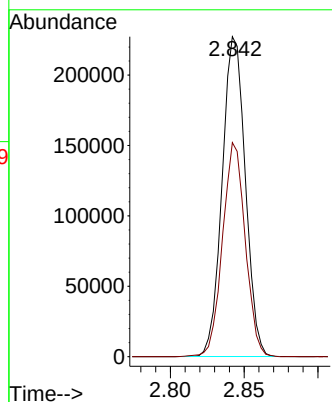
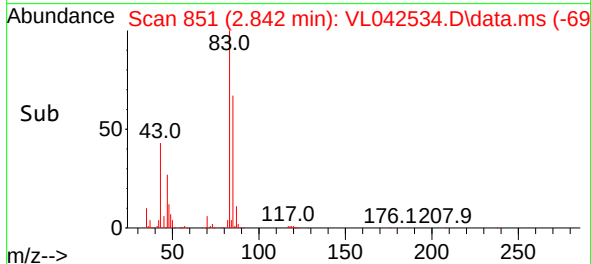
Instrument :
MSVOA_L
ClientSampleId :
ICVVL051225



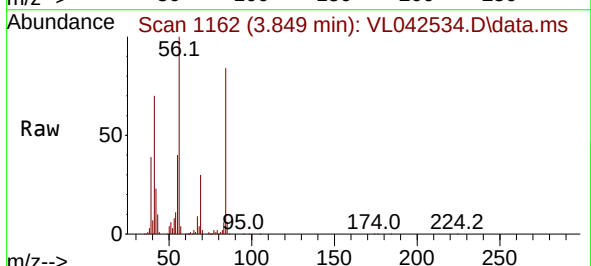
Tgt Ion: 83 Resp: 24825
Ion Ratio Lower Upper
83 100
85 66.9 53.5 80.3

Manual Integrations
APPROVED

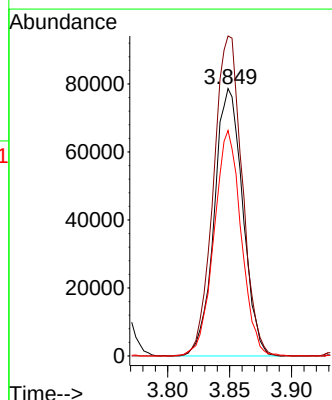
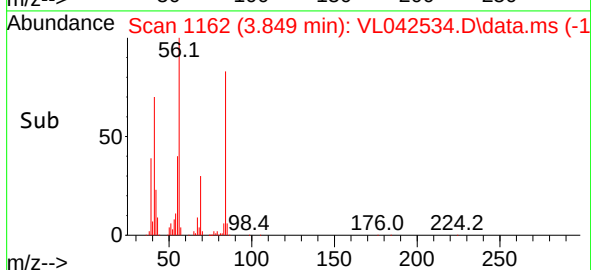
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

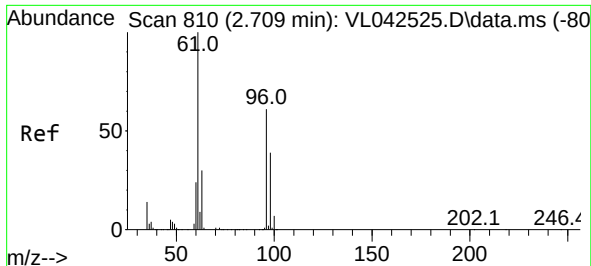


#30
Cyclohexane
Concen: 12.687 ppbv
RT: 3.849 min Scan# 1162
Delta R.T. 0.006 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10



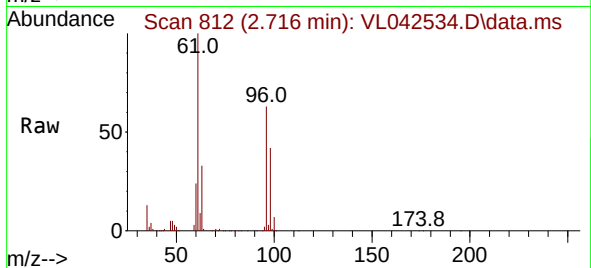
Tgt Ion: 84 Resp: 125731
Ion Ratio Lower Upper
84 100
56 120.5 97.1 145.7
41 80.8 66.6 99.8





#31
 cis-1,2-Dichloroethene
 Concen: 11.469 ppbv
 RT: 2.716 min Scan# 810
 Delta R.T. 0.006 min
 Lab File: VL042534.D
 Acq: 12 May 2025 16:10

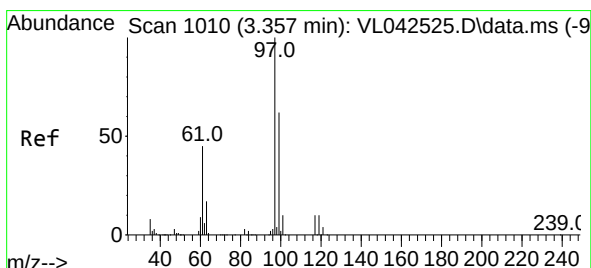
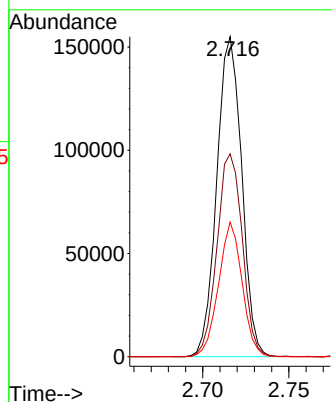
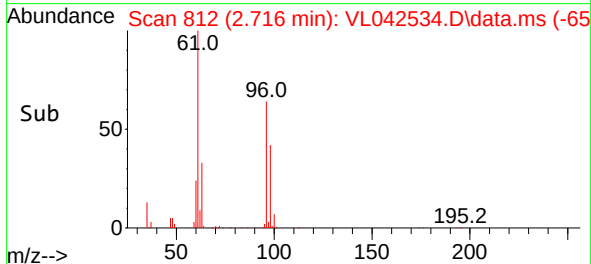
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL051225



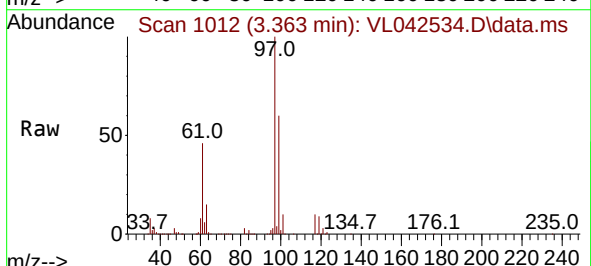
Tgt Ion: 61 Resp: 15633
 Ion Ratio Lower Upper
 61 100
 96 63.4 48.9 73.3
 98 42.1 31.4 47.2

Manual Integrations
 APPROVED

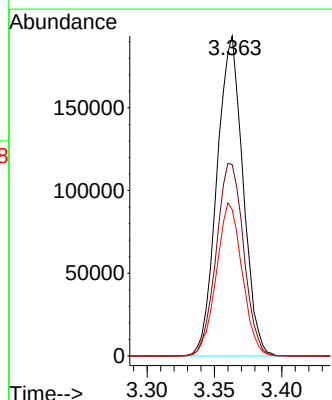
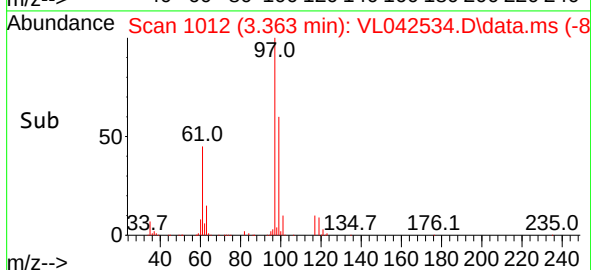
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025

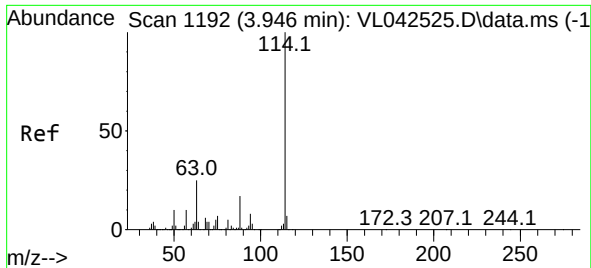


#32
 1,1,1-Trichloroethane
 Concen: 10.089 ppbv
 RT: 3.363 min Scan# 1012
 Delta R.T. 0.006 min
 Lab File: VL042534.D
 Acq: 12 May 2025 16:10



Tgt Ion: 97 Resp: 260615
 Ion Ratio Lower Upper
 97 100
 99 63.2 50.1 75.1
 61 47.6 38.2 57.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. 0.006 min

Lab File: VL042534.D

Acq: 12 May 2025 16:10

Instrument :

MSVOA_L

ClientSampleId :

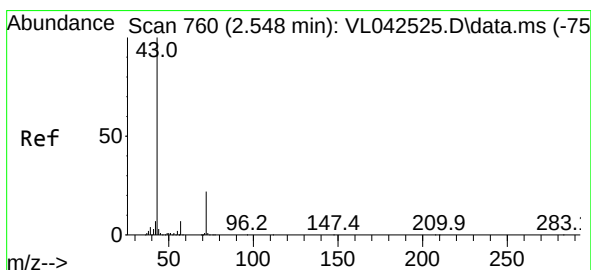
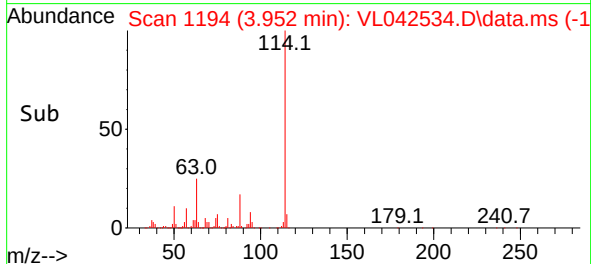
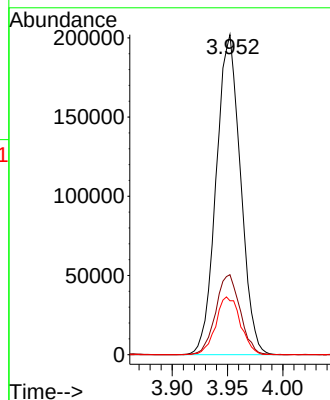
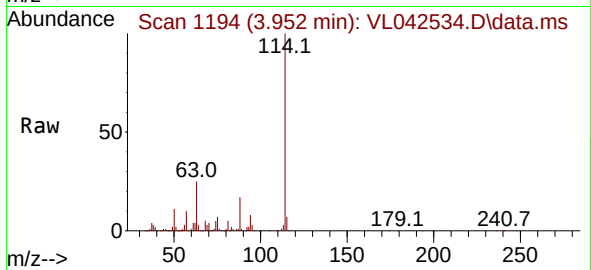
ICVVL051225

Tgt Ion:	114	Resp:	30872
Ion Ratio	Lower	Upper	
114	100		
63	25.2	20.4	30.6
88	18.3	14.5	21.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#34

2-Butanone

Concen: 10.593 ppbv

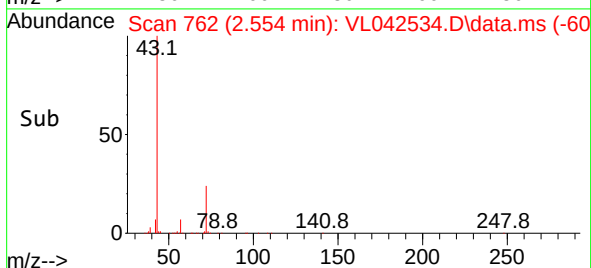
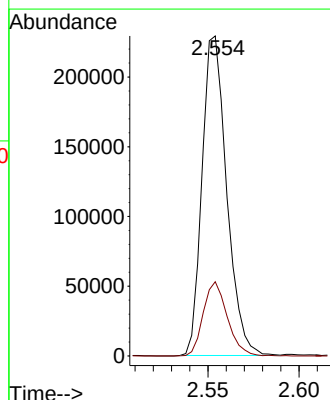
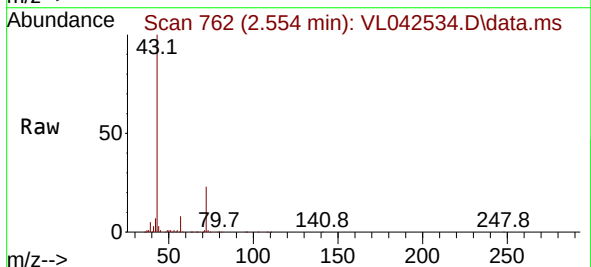
RT: 2.554 min Scan# 762

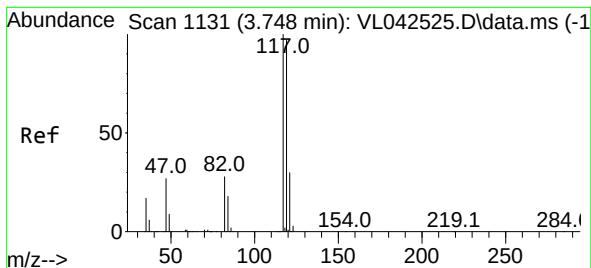
Delta R.T. 0.006 min

Lab File: VL042534.D

Acq: 12 May 2025 16:10

Tgt Ion:	43	Resp:	215548
Ion Ratio	Lower	Upper	
43	100		
72	22.7	18.7	28.1





#35

Carbon Tetrachloride

Concen: 9.944 ppbv

RT: 3.755 min Scan# 1131

Delta R.T. 0.006 min

Lab File: VL042534.D

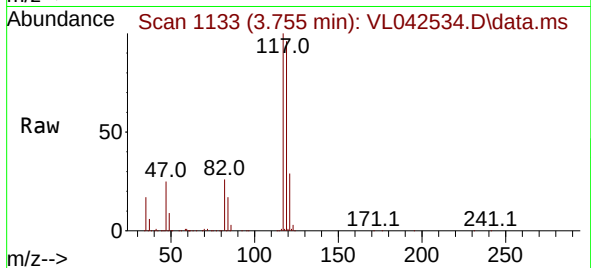
Acq: 12 May 2025 16:10

Instrument :

MSVOA_L

ClientSampleId :

ICVVL051225



Tgt Ion:117 Resp: 275990

Ion Ratio Lower Upper

117 100

119 95.5 77.7 116.5

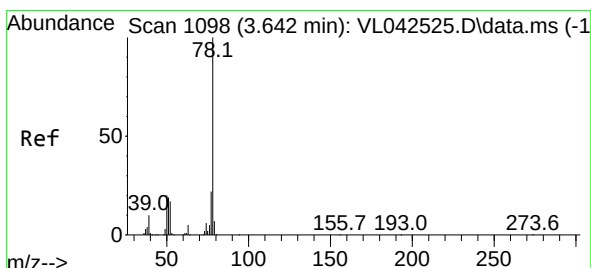
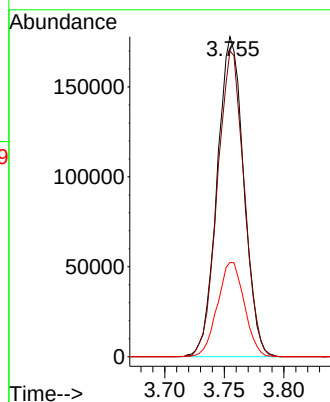
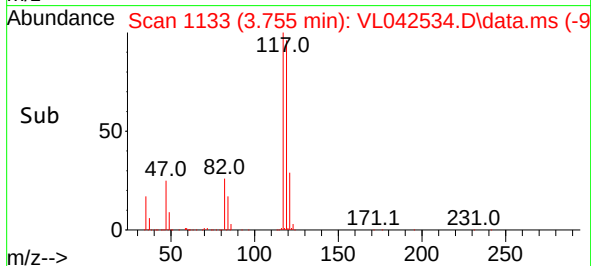
121 29.5 24.0 36.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025

Supervised By :Mahesh Dadoda 05/14/2025



#36

Benzene

Concen: 11.060 ppbv

RT: 3.648 min Scan# 1100

Delta R.T. 0.006 min

Lab File: VL042534.D

Acq: 12 May 2025 16:10

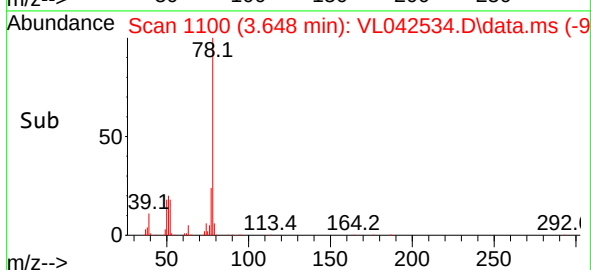
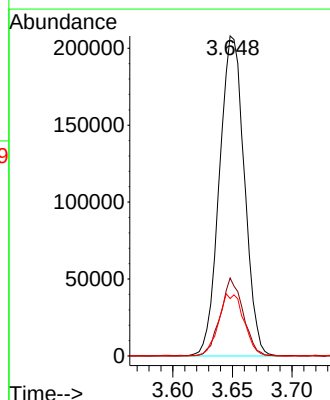
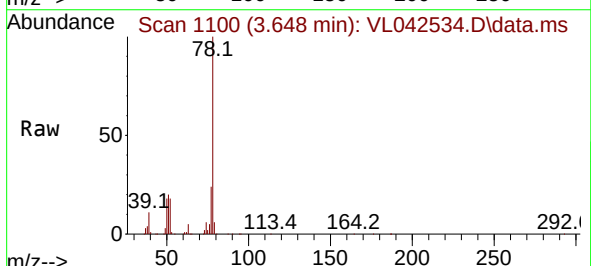
Tgt Ion: 78 Resp: 302608

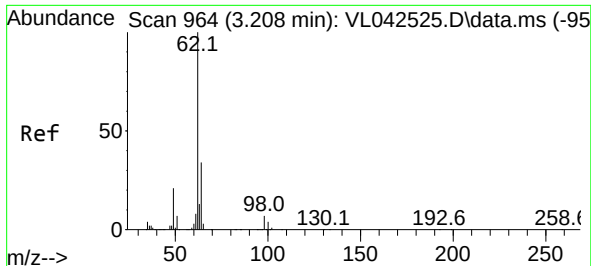
Ion Ratio Lower Upper

78 100

77 24.3 17.4 26.2

50 18.0 16.3 24.5





#37

1,2-Dichloroethane

Concen: 10.133 ppbv

RT: 3.211 min Scan# 9

Delta R.T. 0.003 min

Lab File: VL042534.D

Acq: 12 May 2025 16:10

Instrument :

MSVOA_L

ClientSampleId :

ICVVL051225

Tgt Ion: 62 Resp: 19775

Ion Ratio Lower Upper

62 100

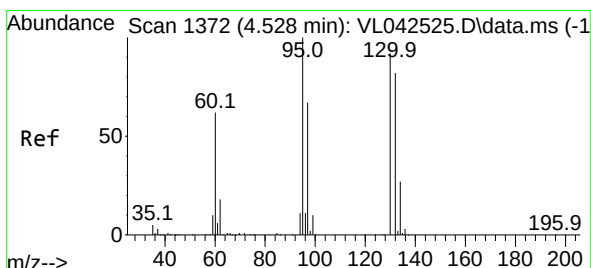
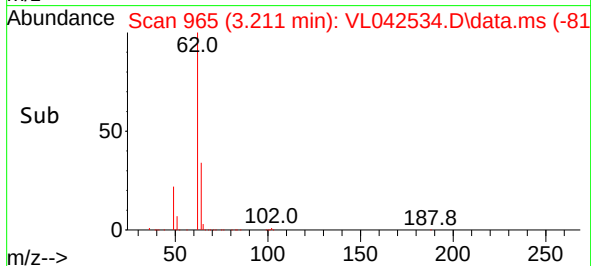
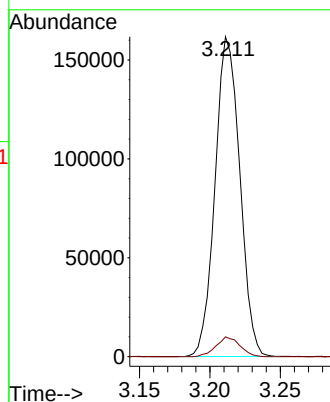
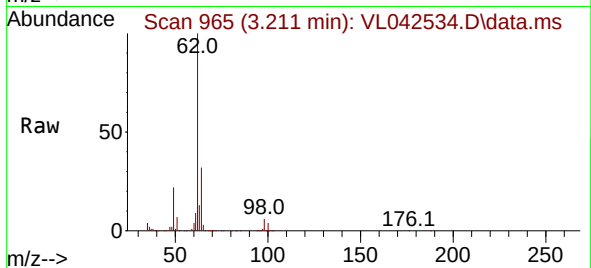
98 6.0 5.0 7.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025

Supervised By :Mahesh Dadoda 05/14/2025



#38

Trichloroethene

Concen: 10.461 ppbv

RT: 4.541 min Scan# 1376

Delta R.T. 0.013 min

Lab File: VL042534.D

Acq: 12 May 2025 16:10

Tgt Ion:130 Resp: 124443

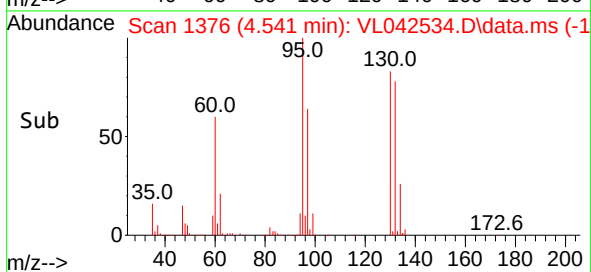
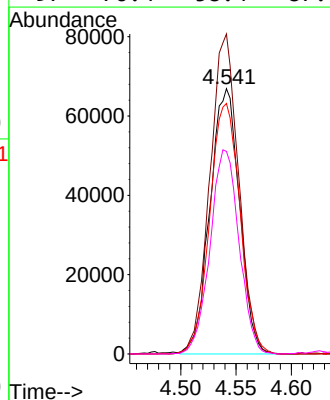
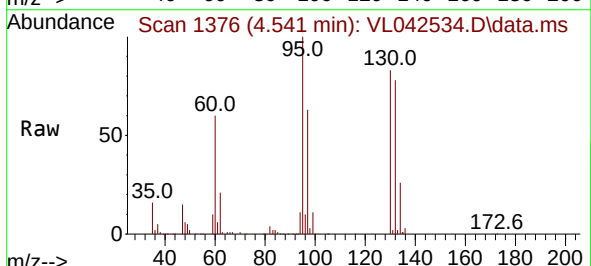
Ion Ratio Lower Upper

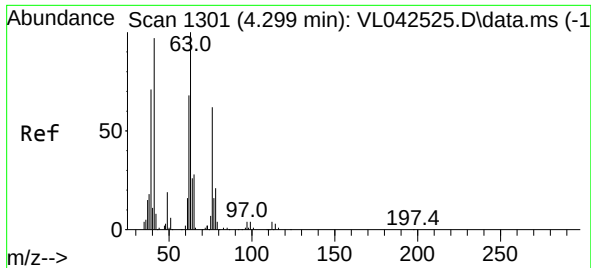
130 100

95 120.7 87.0 130.4

132 94.5 71.1 106.7

97 76.4 58.4 87.6





#39

1,2-Dichloropropane

Concen: 10.381 ppbv

RT: 4.308 min Scan# 11

Delta R.T. 0.010 min

Lab File: VL042534.D

Acq: 12 May 2025 16:10

Instrument :

MSVOA_L

ClientSampleId :

ICVVL051225

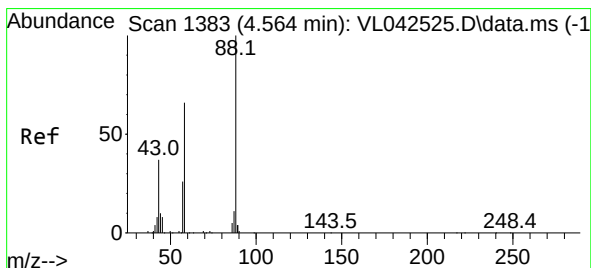
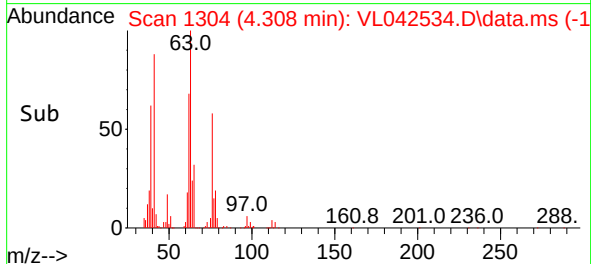
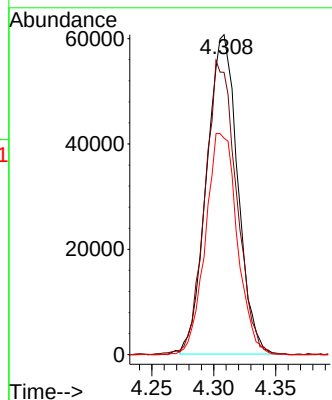
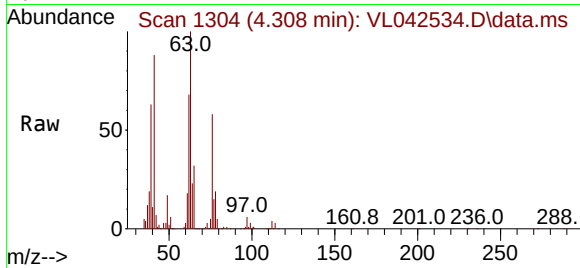
Tgt Ion: 63 Resp: 105794

Ion	Ratio	Lower	Upper
63	100		
41	88.2	77.5	116.3
62	67.4	54.6	82.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#40

1,4-Dioxane

Concen: 11.326 ppbv

RT: 4.577 min Scan# 1387

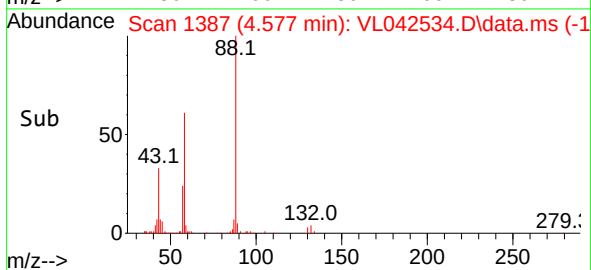
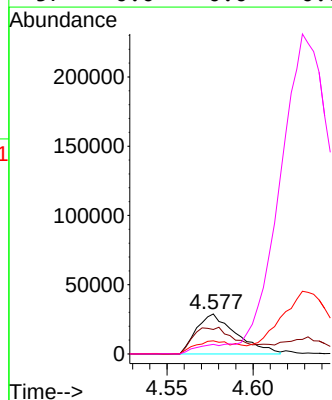
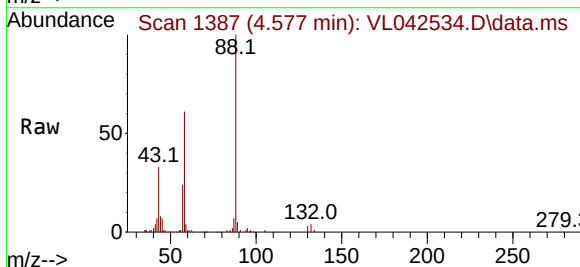
Delta R.T. 0.013 min

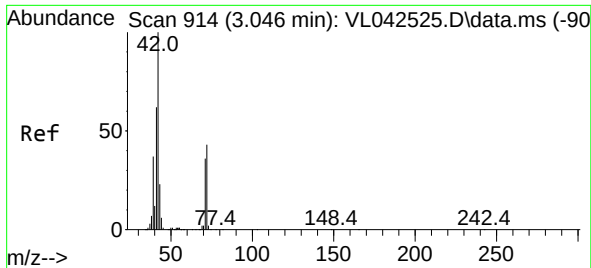
Lab File: VL042534.D

Acq: 12 May 2025 16:10

Tgt Ion: 88 Resp: 46856

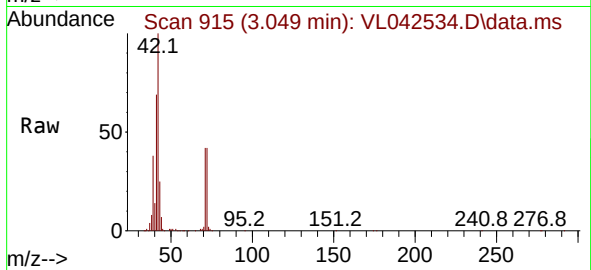
Ion	Ratio	Lower	Upper
88	100		
58	75.2	58.2	87.2
43	35.2	27.9	41.9
57	0.0	0.0	0.0





#41
Tetrahydrofuran
Concen: 12.288 ppbv
RT: 3.049 min Scan# 914
Delta R.T. 0.003 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

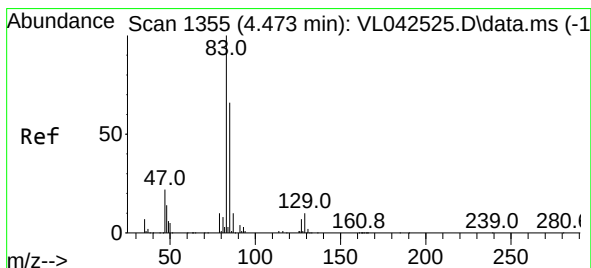
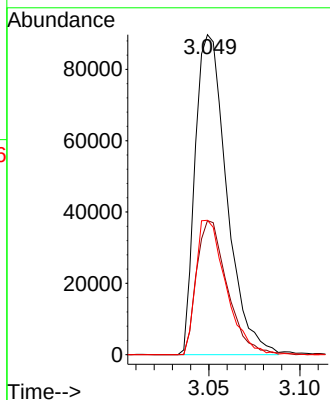
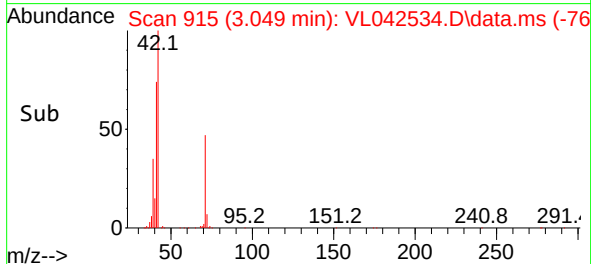
Instrument :
MSVOA_L
ClientSampleId :
ICVVL051225



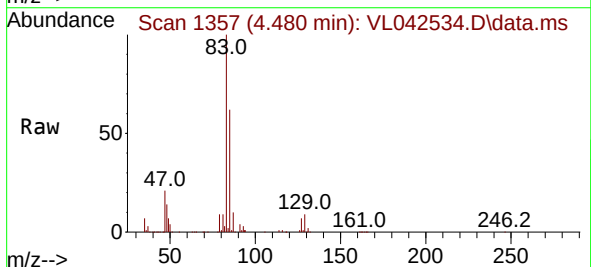
Tgt Ion: 42 Resp: 108235
Ion Ratio Lower Upper
42 100
72 40.9 32.7 49.1
71 40.3 30.4 45.6

Manual Integrations
APPROVED

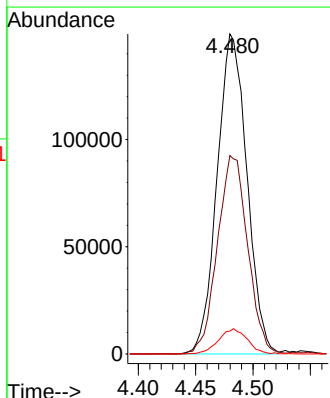
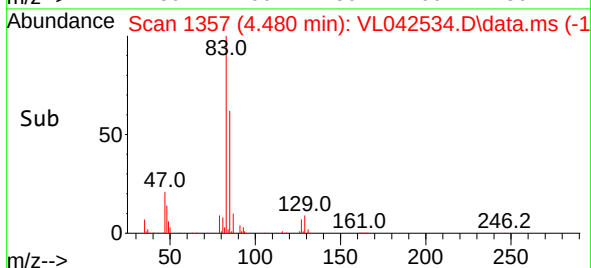
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

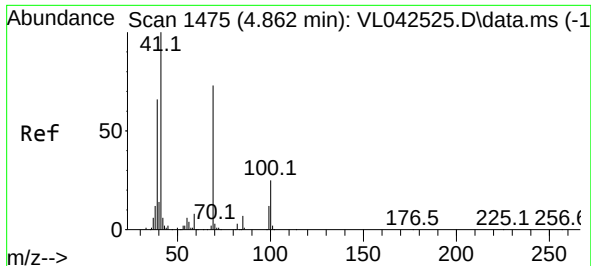


#42
Bromodichloromethane
Concen: 10.344 ppbv
RT: 4.480 min Scan# 1357
Delta R.T. 0.006 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10



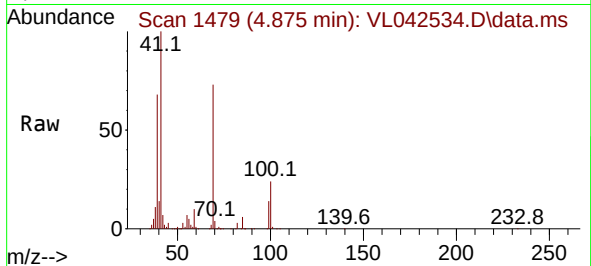
Tgt Ion: 83 Resp: 269411
Ion Ratio Lower Upper
83 100
85 62.0 52.6 79.0
127 7.2 6.0 9.0





#43
Methyl Methacrylate
Concen: 12.553 ppbv
RT: 4.875 min Scan# 1475
Delta R.T. 0.013 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

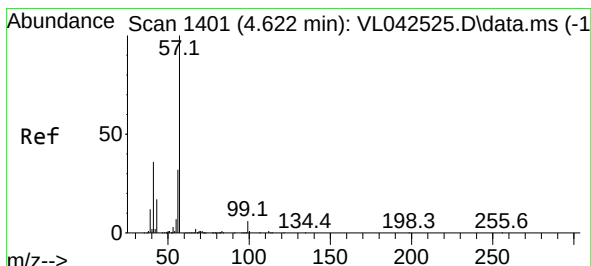
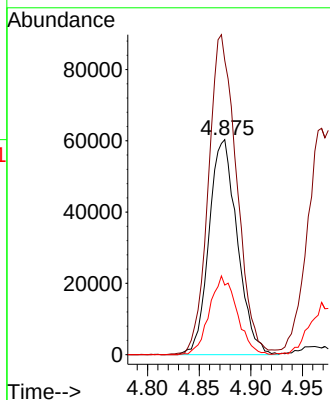
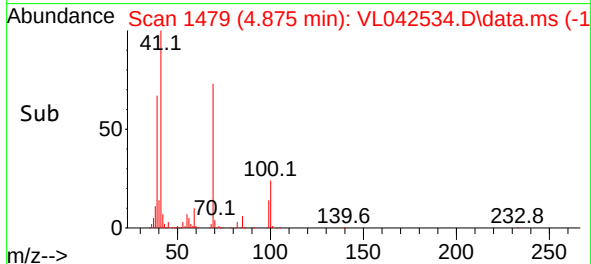
Instrument :
MSVOA_L
ClientSampleId :
ICVVL051225



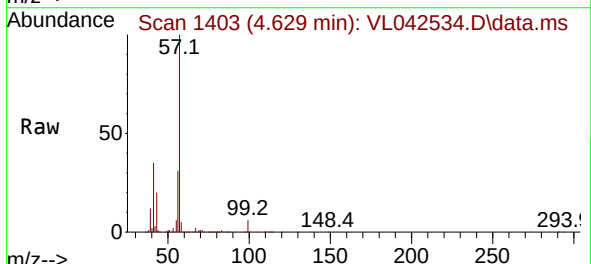
Tgt Ion: 69 Resp: 115023
Ion Ratio Lower Upper
69 100
41 148.6 119.9 179.9
100 35.6 28.4 42.6

Manual Integrations
APPROVED

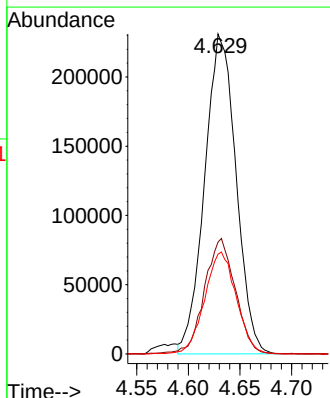
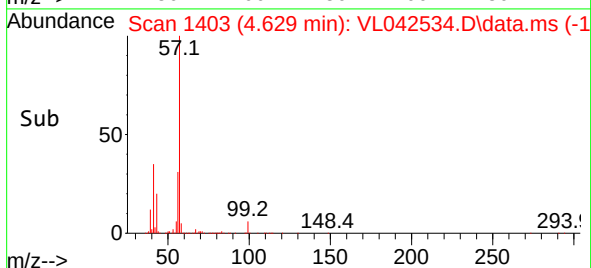
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

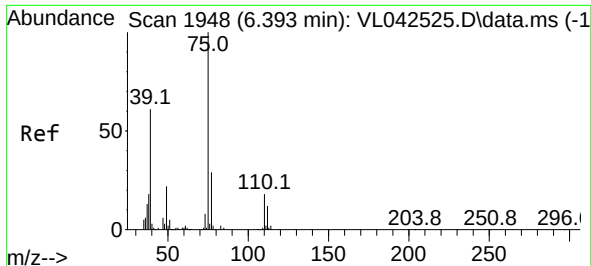


#44
2,2,4-Trimethylpentane
Concen: 11.264 ppbv
RT: 4.629 min Scan# 1403
Delta R.T. 0.006 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10



Tgt Ion: 57 Resp: 488308
Ion Ratio Lower Upper
57 100
41 35.8 28.3 42.5
56 32.1 25.9 38.9





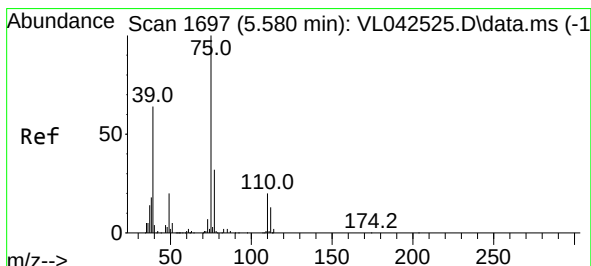
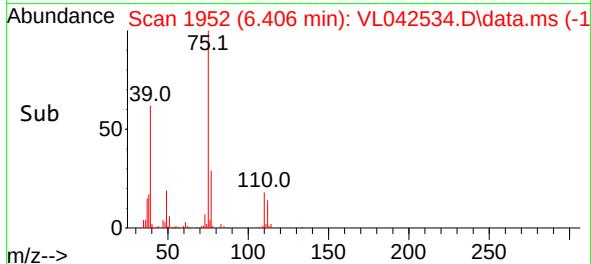
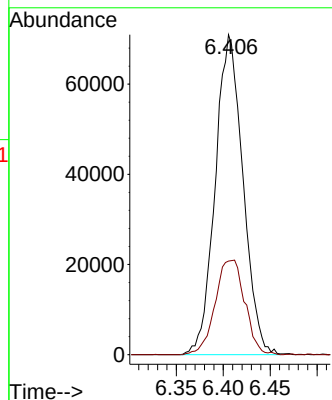
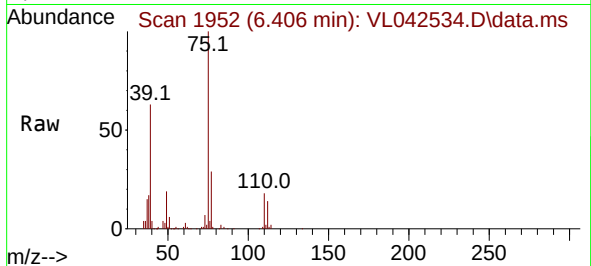
#45
 t-1,3-Dichloropropene
 Concen: 12.452 ppbv
 RT: 6.406 min Scan# 1948
 Delta R.T. 0.013 min
 Lab File: VL042534.D
 Acq: 12 May 2025 16:10

Instrument : MSVOA_L
 ClientSampleId : ICVVL051225

Tgt Ion: 75 Resp: 14577
 Ion Ratio Lower Upper
 75 100
 77 29.3 23.3 34.9

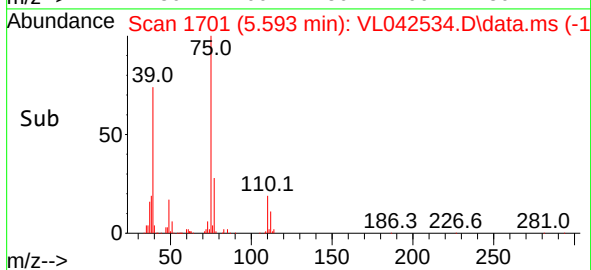
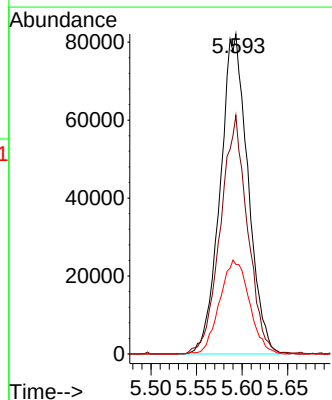
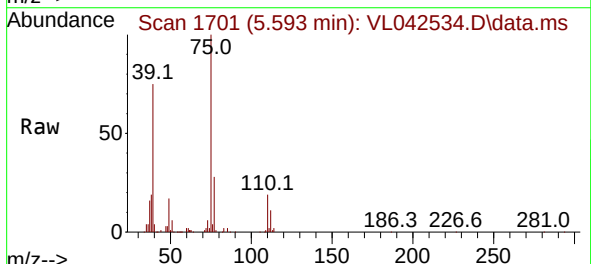
Manual Integrations
 APPROVED

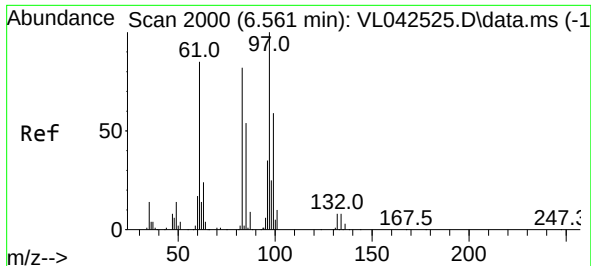
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025



#46
 cis-1,3-Dichloropropene
 Concen: 12.337 ppbv
 RT: 5.593 min Scan# 1701
 Delta R.T. 0.013 min
 Lab File: VL042534.D
 Acq: 12 May 2025 16:10

Tgt Ion: 75 Resp: 173741
 Ion Ratio Lower Upper
 75 100
 39 74.5 51.2 76.8
 77 27.9 25.4 38.0





#47

1,1,2-Trichloroethane

Concen: 10.192 ppbv

RT: 6.574 min Scan# 2004

Delta R.T. 0.013 min

Lab File: VL042534.D

Acq: 12 May 2025 16:10

Instrument :

MSVOA_L

ClientSampleId :

ICVVL051225

Tgt Ion: 97 Resp: 12231

Ion Ratio Lower Upper

97 100

83 77.7 66.0 99.0

85 51.6 42.8 64.2

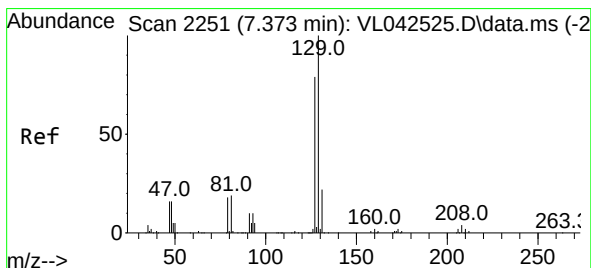
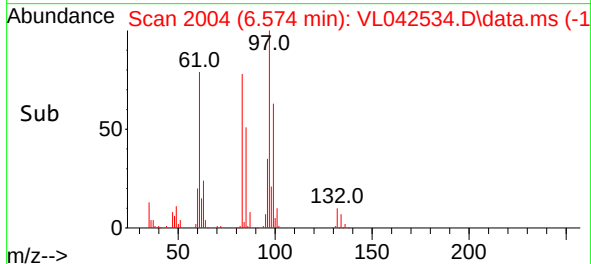
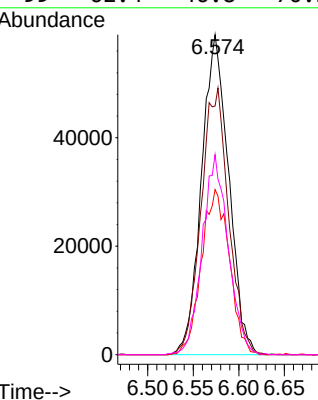
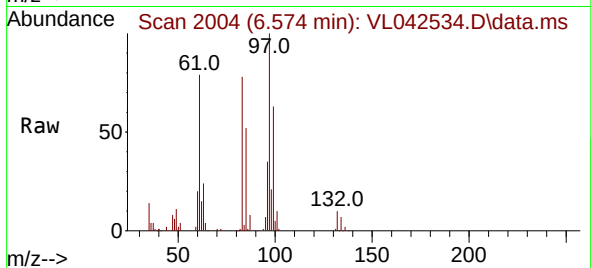
99 62.4 46.8 70.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025

Supervised By :Mahesh Dadoda 05/14/2025



#48

Dibromochloromethane

Concen: 10.680 ppbv

RT: 7.380 min Scan# 2253

Delta R.T. 0.006 min

Lab File: VL042534.D

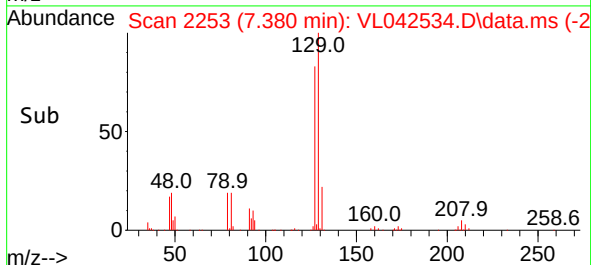
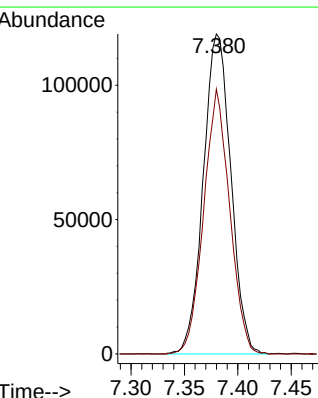
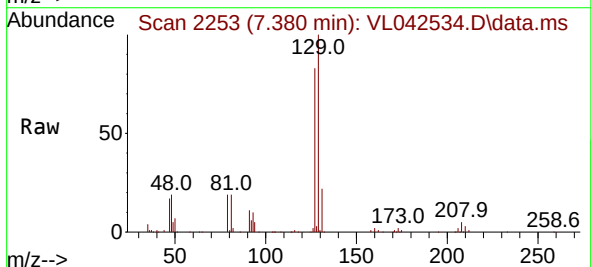
Acq: 12 May 2025 16:10

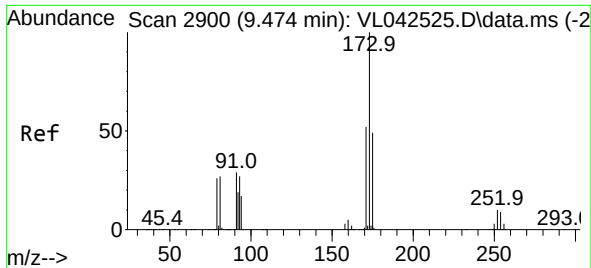
Tgt Ion:129 Resp: 213991

Ion Ratio Lower Upper

129 100

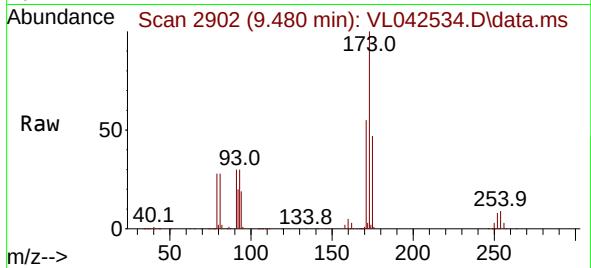
127 78.0 39.6 118.8





#49
Bromoform
Concen: 10.893 ppbv
RT: 9.480 min Scan# 2900
Delta R.T. 0.006 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

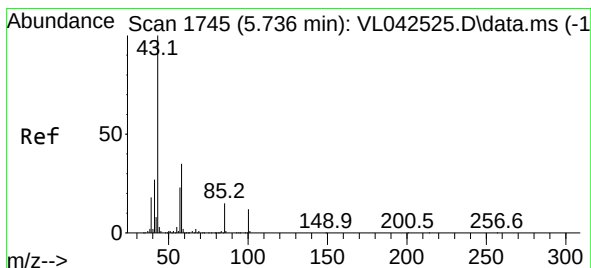
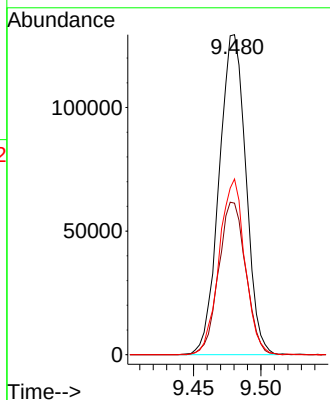
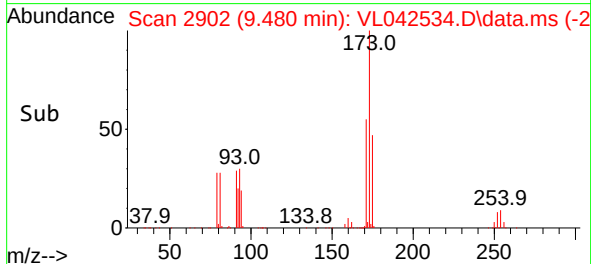
Instrument :
MSVOA_L
ClientSampleId :
ICVVL051225



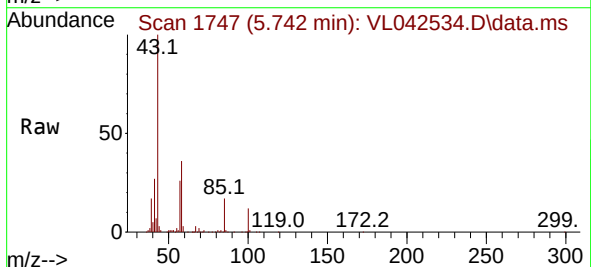
Tgt Ion:173 Resp: 179114
Ion Ratio Lower Upper
173 100
175 48.3 39.1 58.7
171 52.8 41.8 62.8

Manual Integrations
APPROVED

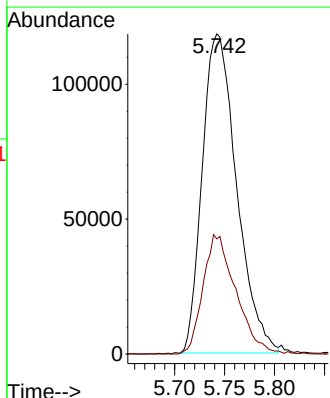
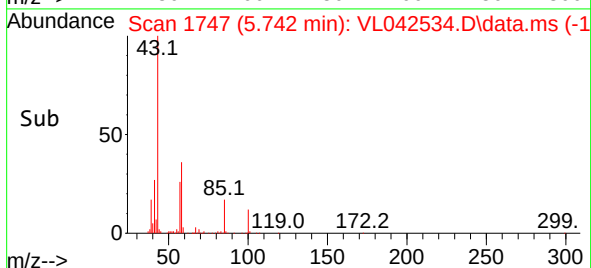
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

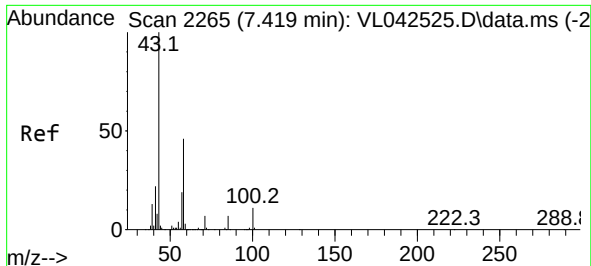


#50
4-Methyl-2-Pentanone
Concen: 11.865 ppbv
RT: 5.742 min Scan# 1747
Delta R.T. 0.006 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10



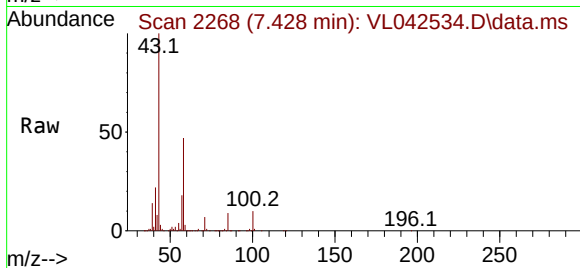
Tgt Ion: 43 Resp: 283584
Ion Ratio Lower Upper
43 100
58 35.7 28.6 42.8





#51
2-Hexanone
Concen: 13.181 ppbv
RT: 7.428 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

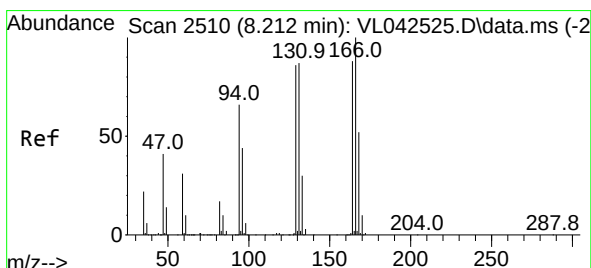
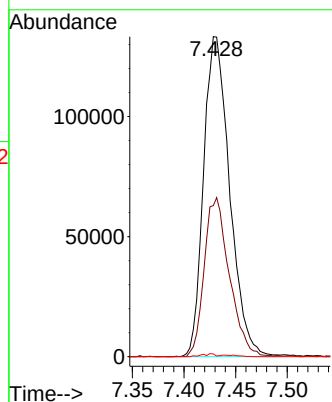
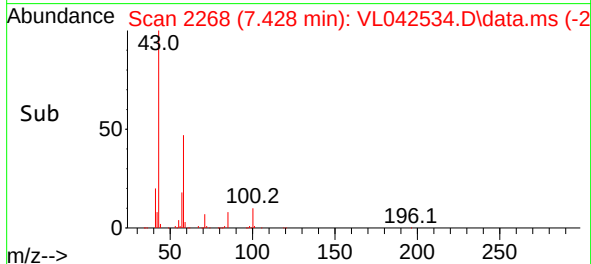
Instrument :
MSVOA_L
ClientSampleId :
ICVVL051225



Tgt Ion: 43 Resp: 234324
Ion Ratio Lower Upper
43 100
58 48.0 37.5 56.3
98 0.8 0.9 1.3

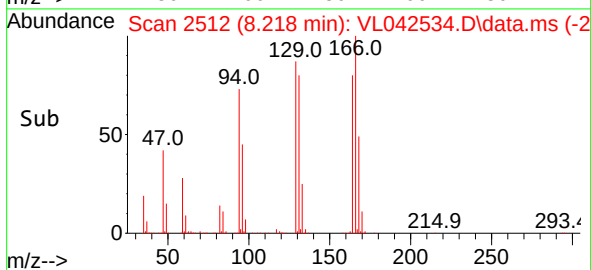
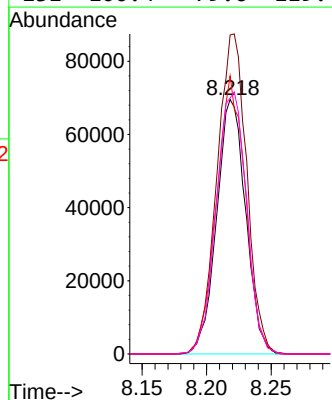
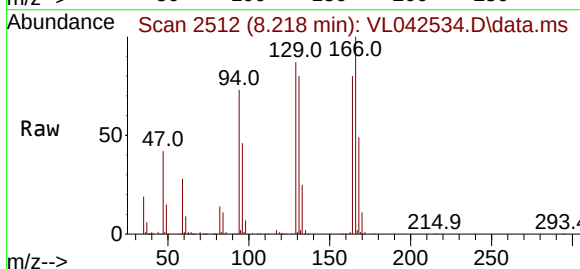
Manual Integrations
APPROVED

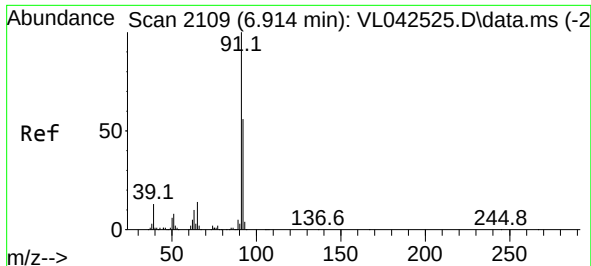
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#52
Tetrachloroethene
Concen: 10.391 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. 0.006 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

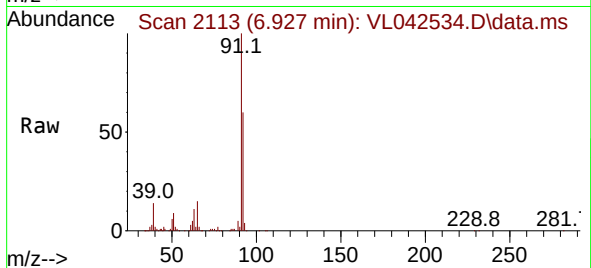
Tgt Ion:164 Resp: 108772
Ion Ratio Lower Upper
164 100
166 125.4 91.3 136.9
129 109.3 78.9 118.3
131 100.4 79.6 119.4





#53
Toluene
Concen: 12.519 ppbv
RT: 6.927 min Scan# 2109
Delta R.T. 0.013 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

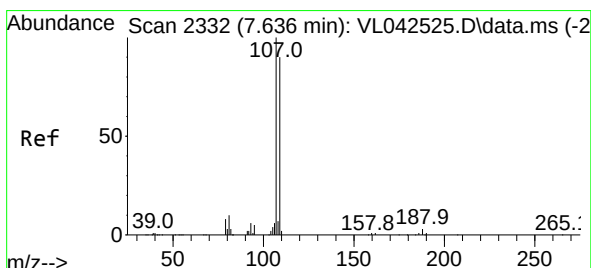
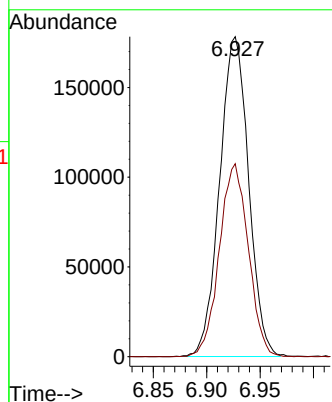
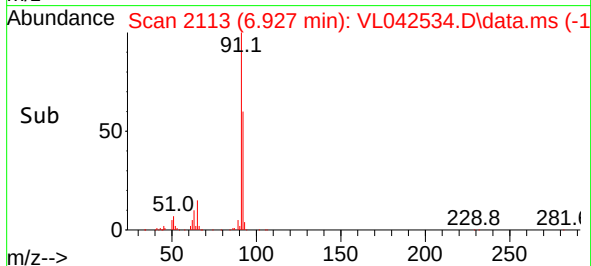
Instrument :
MSVOA_L
ClientSampleId :
ICVVL051225



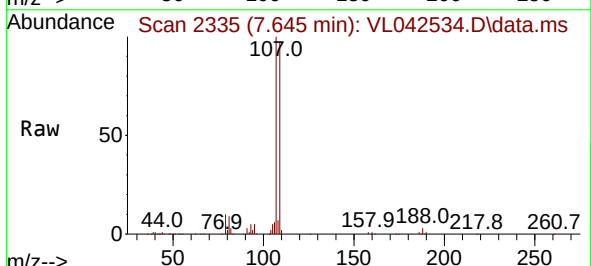
Tgt Ion: 91 Resp: 336112
Ion Ratio Lower Upper
91 100
92 60.5 47.8 71.6

Manual Integrations
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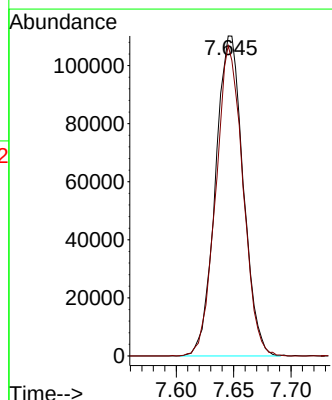
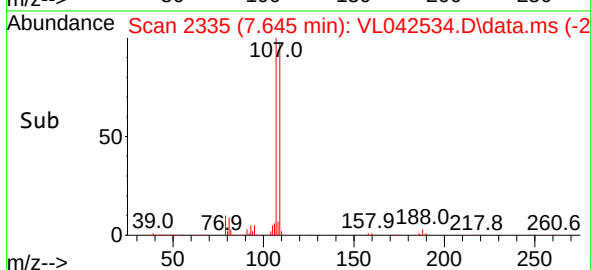
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

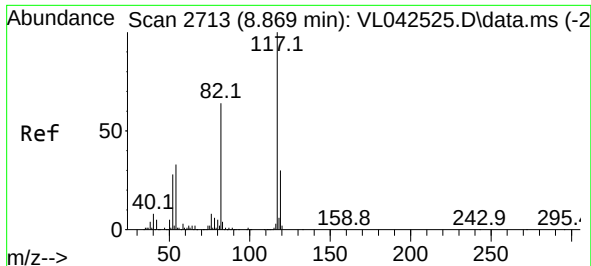


#54
1,2-Dibromoethane
Concen: 10.565 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. 0.010 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10



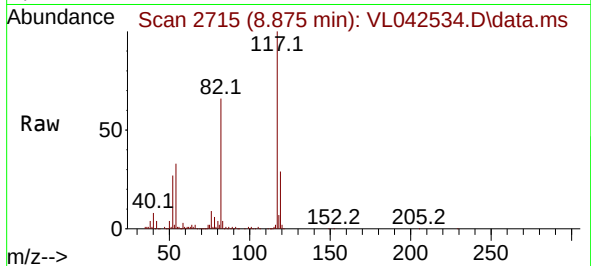
Tgt Ion:107 Resp: 185157
Ion Ratio Lower Upper
107 100
109 96.8 72.2 108.4





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. 0.006 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

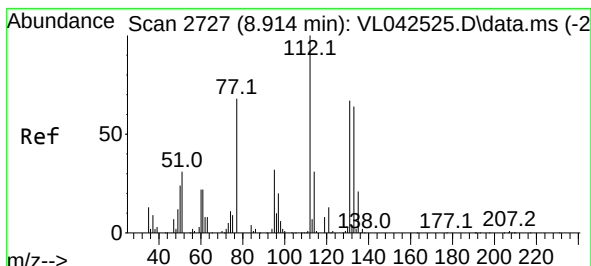
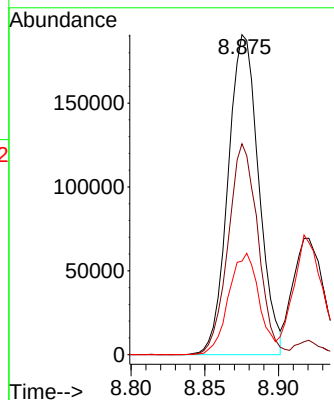
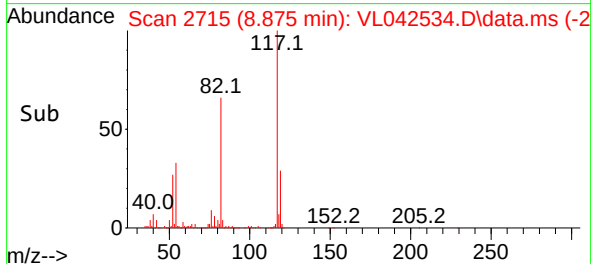
Instrument :
MSVOA_L
ClientSampleId :
ICVVL051225



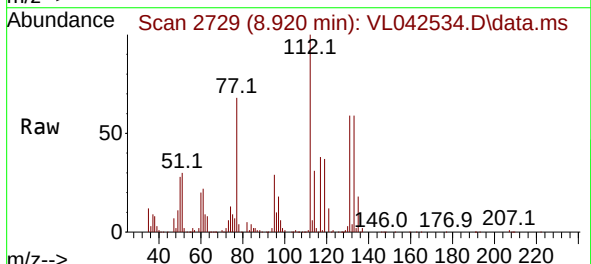
Tgt Ion:117 Resp: 276420
Ion Ratio Lower Upper
117 100
82 67.5 55.0 82.4
119 31.6 25.8 38.6

Manual Integrations
APPROVED

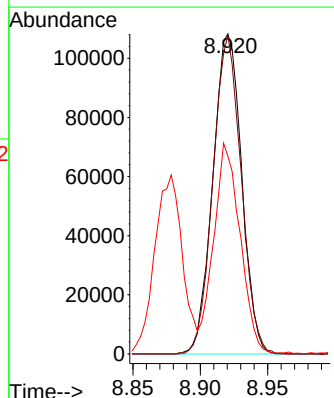
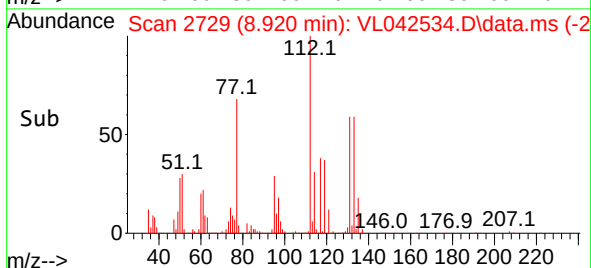
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

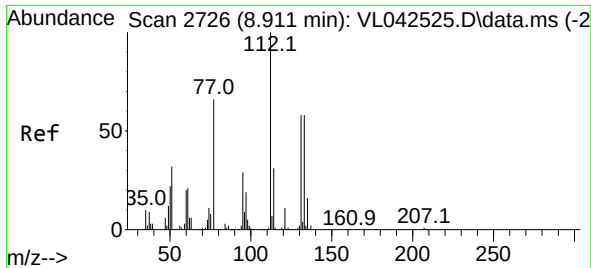


#56
1,1,1,2-Tetrachloroethane
Concen: 9.389 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. 0.006 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10



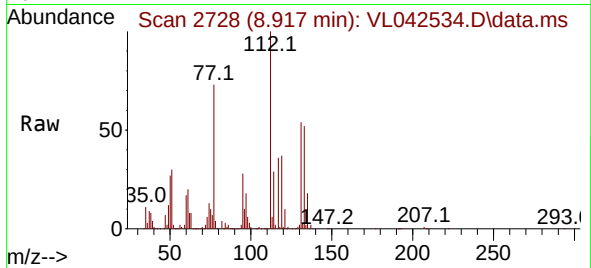
Tgt Ion:131 Resp: 160912
Ion Ratio Lower Upper
131 100
133 97.4 77.4 116.2
119 61.2 49.0 73.4





#57
Chlorobenzene
Concen: 9.890 ppbv
RT: 8.917 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

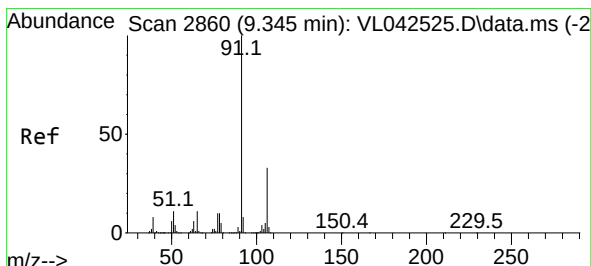
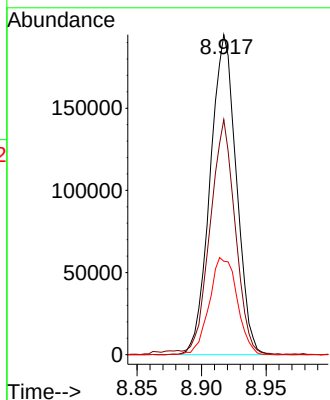
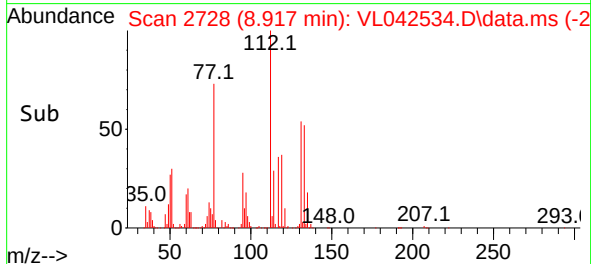
Instrument :
MSVOA_L
ClientSampleId :
ICVVL051225



Tgt Ion:112 Resp: 274500
Ion Ratio Lower Upper
112 100
77 73.1 53.6 80.4
114 29.2 28.2 34.4

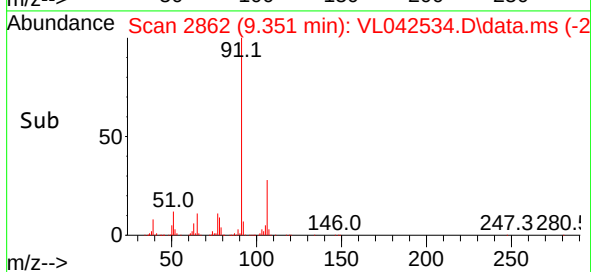
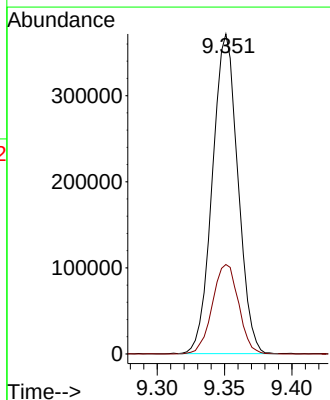
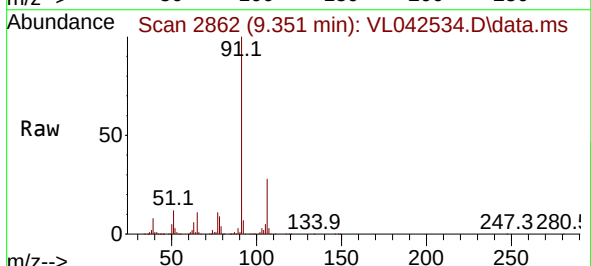
Manual Integrations
APPROVED

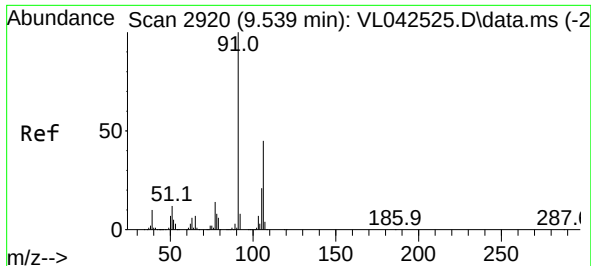
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#58
Ethyl Benzene
Concen: 12.941 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. 0.006 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

Tgt Ion: 91 Resp: 487590
Ion Ratio Lower Upper
91 100
106 28.0 26.0 39.0





#59

m/p-Xylene

Concen: 24.002 ppbv m

RT: 9.529 min Scan# 2920

Delta R.T. -0.010 min

Lab File: VL042534.D

Acq: 12 May 2025 16:10

Instrument :

MSVOA_L

ClientSampleId :

ICVVL051225

Tgt Ion: 91 Resp: 803149

Ion Ratio Lower Upper

91 100

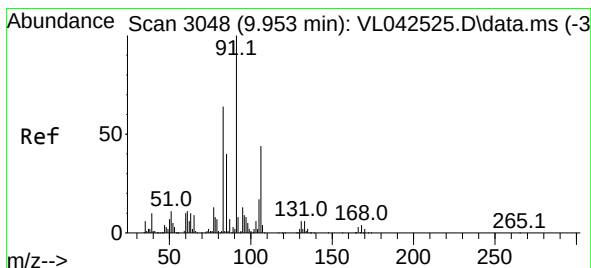
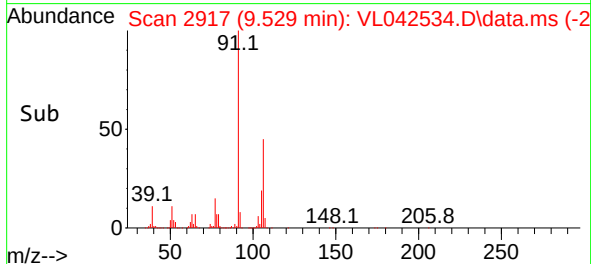
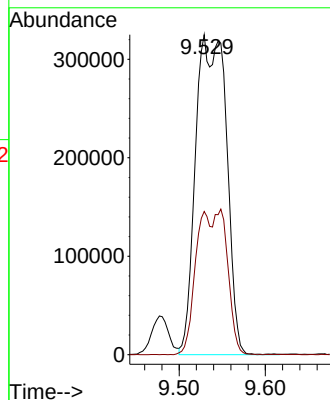
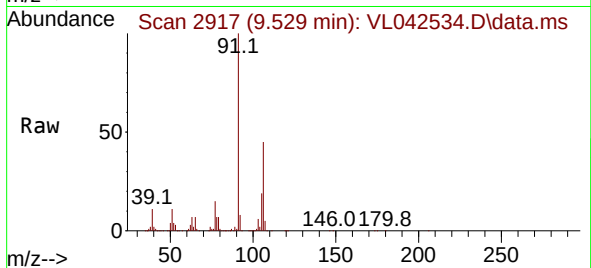
106 45.6 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025

Supervised By :Mahesh Dadoda 05/14/2025



#60

o-Xylene

Concen: 12.495 ppbv

RT: 9.959 min Scan# 3050

Delta R.T. 0.006 min

Lab File: VL042534.D

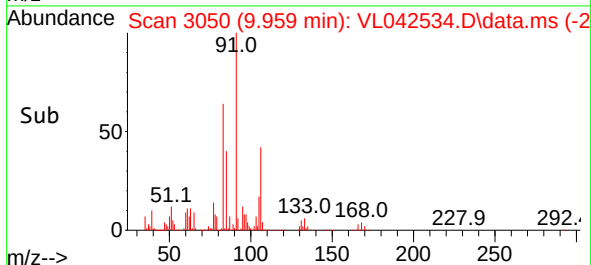
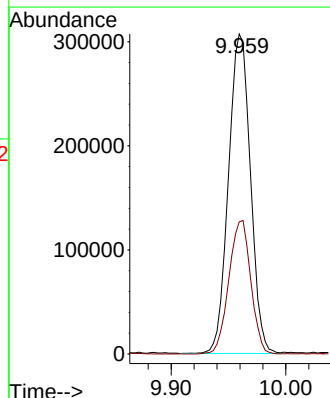
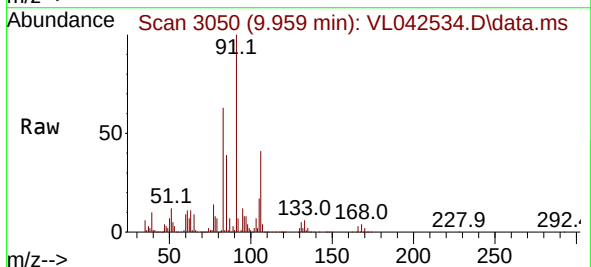
Acq: 12 May 2025 16:10

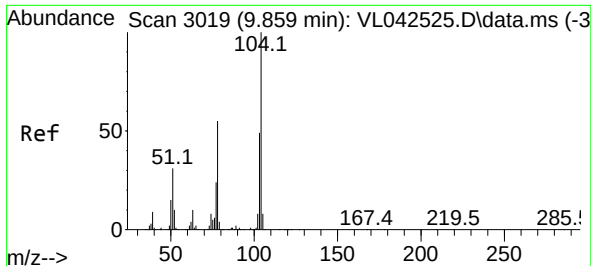
Tgt Ion: 91 Resp: 408333

Ion Ratio Lower Upper

91 100

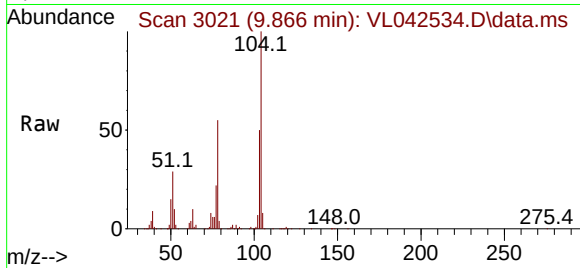
106 41.7 21.6 64.6





#61
Styrene
Concen: 13.737 ppbv
RT: 9.866 min Scan# 3019
Delta R.T. 0.006 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

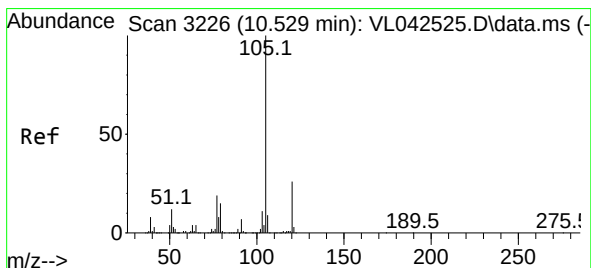
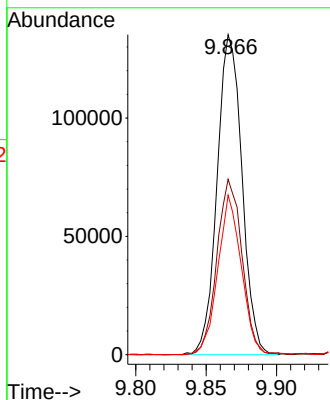
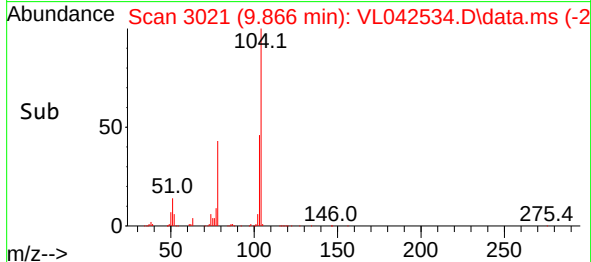
Instrument :
MSVOA_L
ClientSampleId :
ICVVL051225



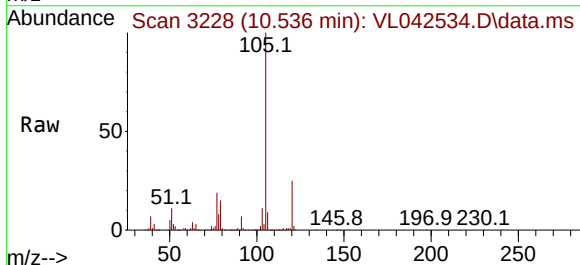
Tgt Ion:104 Resp: 166262
Ion Ratio Lower Upper
104 100
78 55.6 44.7 67.1
103 47.5 38.6 58.0

Manual Integrations
APPROVED

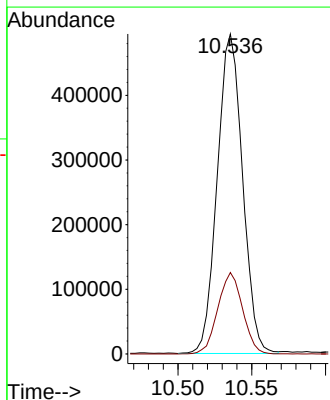
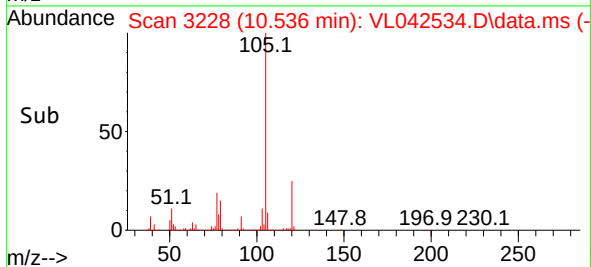
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

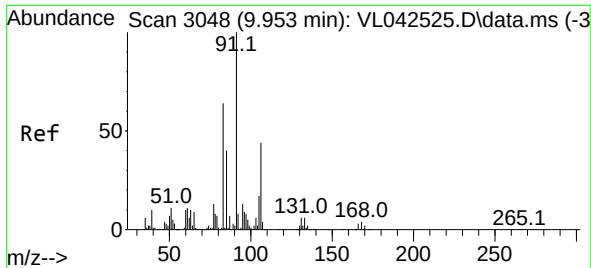


#62
Isopropylbenzene
Concen: 11.978 ppbv
RT: 10.536 min Scan# 3228
Delta R.T. 0.006 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10



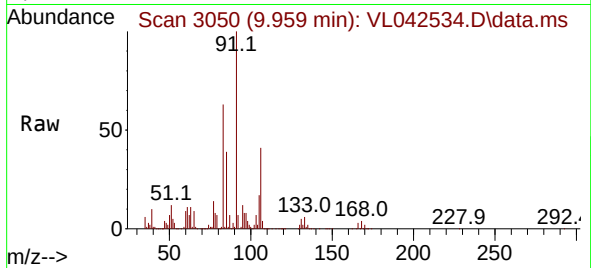
Tgt Ion:105 Resp: 589527
Ion Ratio Lower Upper
105 100
120 24.9 20.1 30.1





#63
1,1,2,2-Tetrachloroethane
Concen: 9.228 ppbv
RT: 9.959 min Scan# 3048
Delta R.T. 0.006 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

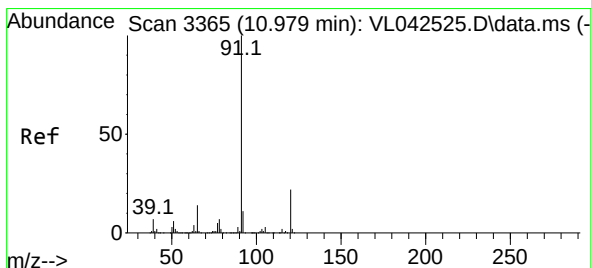
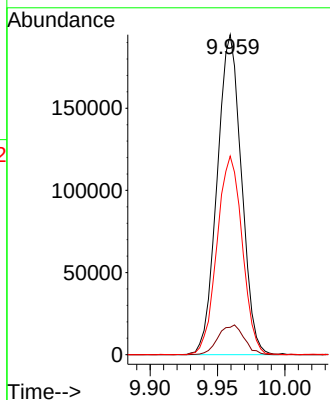
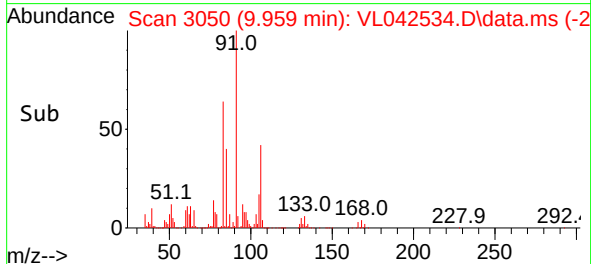
Instrument : MSVOA_L
ClientSampleId : ICVVL051225



Tgt Ion: 83 Resp: 244748
Ion Ratio Lower Upper
83 100
131 9.9 4.9 14.7
85 64.4 32.3 96.8

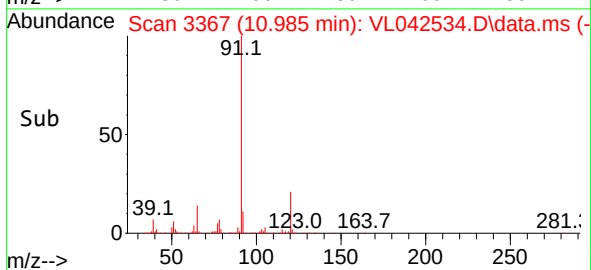
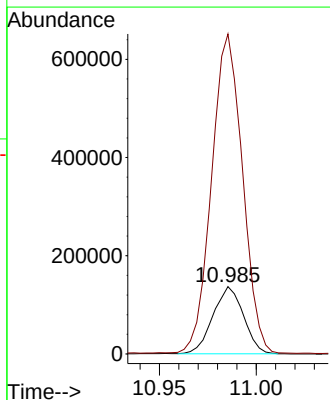
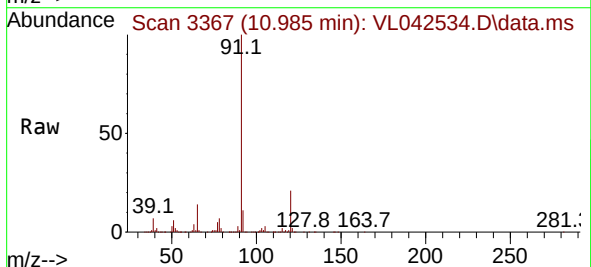
Manual Integrations
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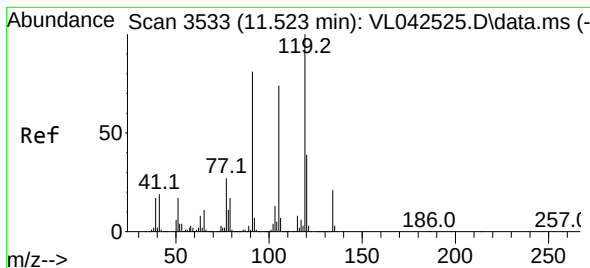
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#64
n-propylbenzene
Concen: 11.993 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. 0.006 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

Tgt Ion:120 Resp: 149858
Ion Ratio Lower Upper
120 100
91 484.0 377.7 566.5





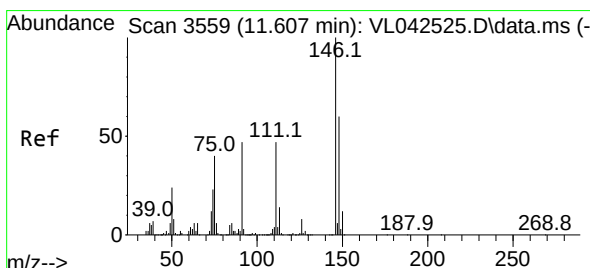
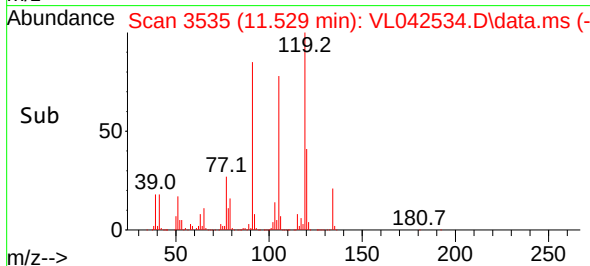
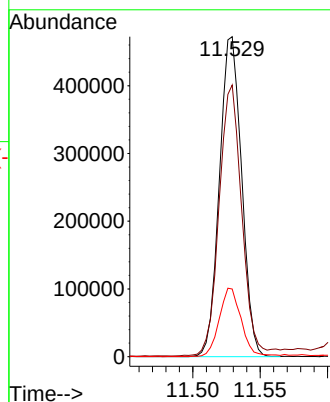
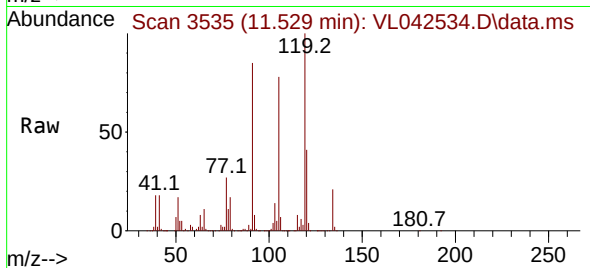
#65
tert-Butylbenzene
Concen: 11.963 ppbv
RT: 11.529 min Scan# 3533
Delta R.T. 0.006 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

Instrument :
MSVOA_L
ClientSampleId :
ICVVL051225

Tgt Ion: 119 Resp: 54064
Ion Ratio Lower Upper
119 100
91 87.6 66.6 99.8
134 21.3 16.3 24.5

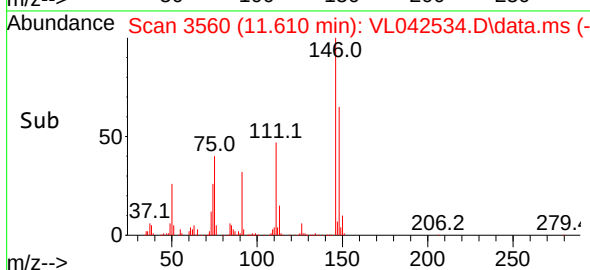
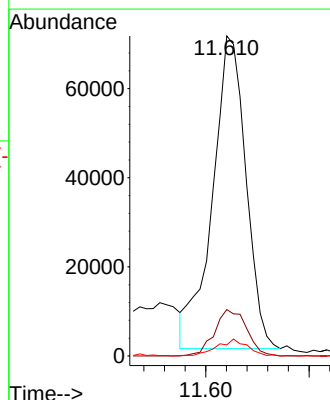
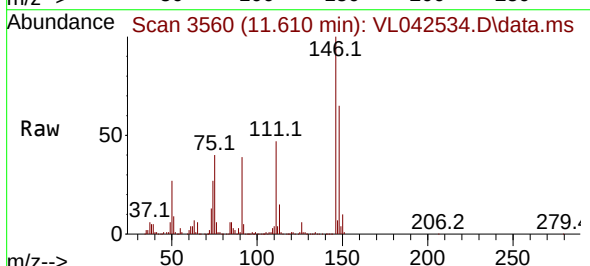
Manual Integrations
APPROVED

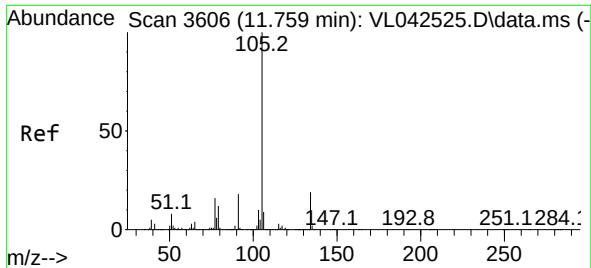
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#66
Benzyl Chloride
Concen: 13.151 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. 0.003 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

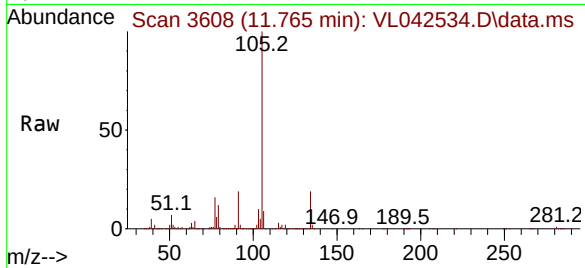
Tgt Ion: 91 Resp: 78976
Ion Ratio Lower Upper
91 100
126 14.4 13.7 20.5
128 5.1 4.2 6.2





#67
 sec-Butylbenzene
 Concen: 11.283 ppbv
 RT: 11.765 min Scan# 3608
 Delta R.T. 0.006 min
 Lab File: VL042534.D
 Acq: 12 May 2025 16:10

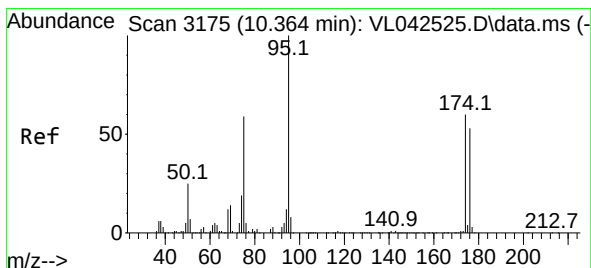
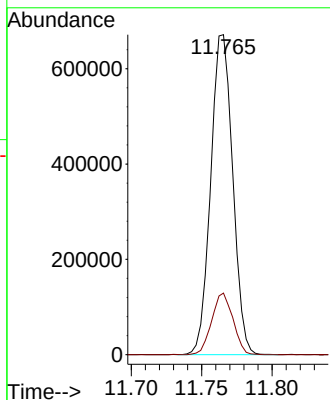
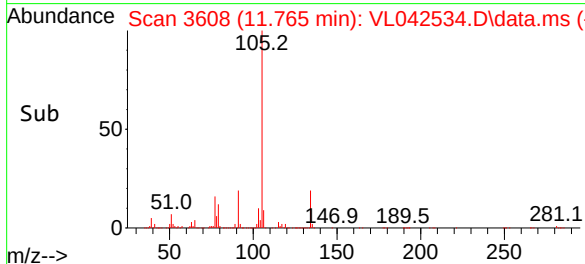
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL051225



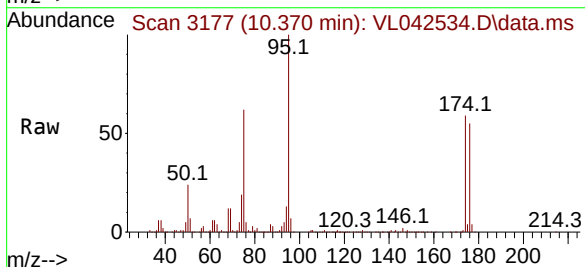
Tgt Ion:105 Resp: 73111
 Ion Ratio Lower Upper
 105 100
 134 18.7 14.9 22.3

Manual Integrations
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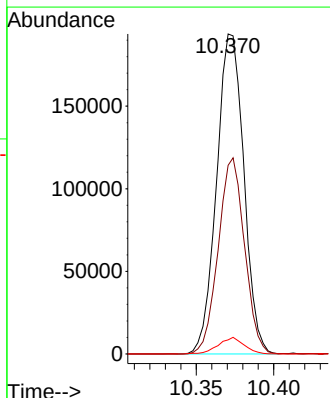
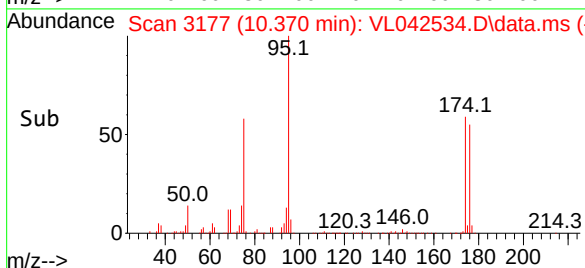
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025

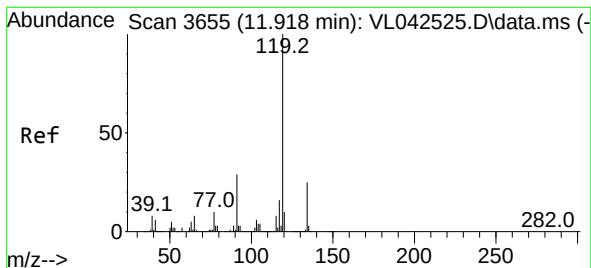


#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.861 ppbv
 RT: 10.370 min Scan# 3177
 Delta R.T. 0.006 min
 Lab File: VL042534.D
 Acq: 12 May 2025 16:10



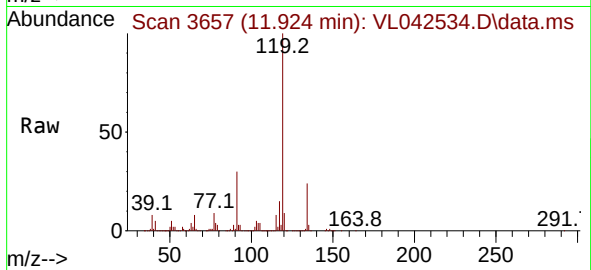
Tgt Ion: 95 Resp: 237168
 Ion Ratio Lower Upper
 95 100
 174 59.3 48.0 72.0
 175 4.9 3.5 5.3





#69
p-Isopropyltoluene
Concen: 11.921 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. 0.006 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

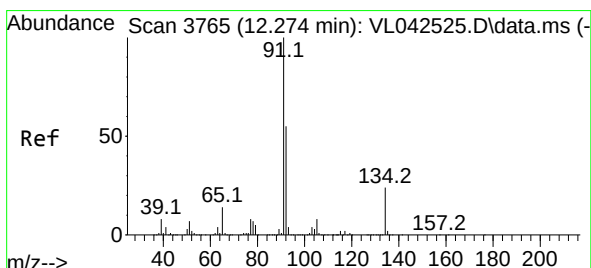
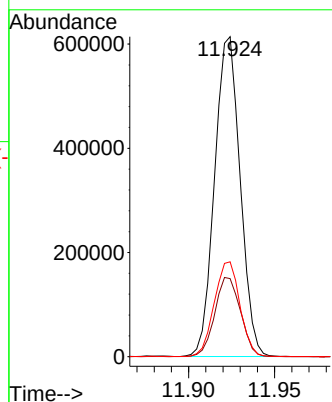
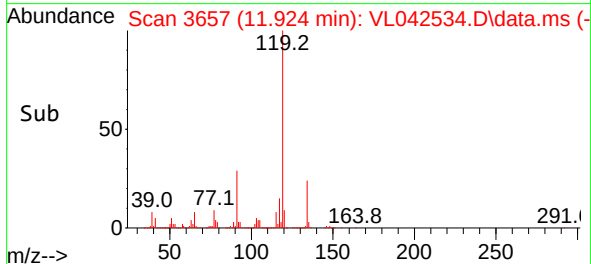
Instrument :
MSVOA_L
ClientSampleId :
ICVVL051225



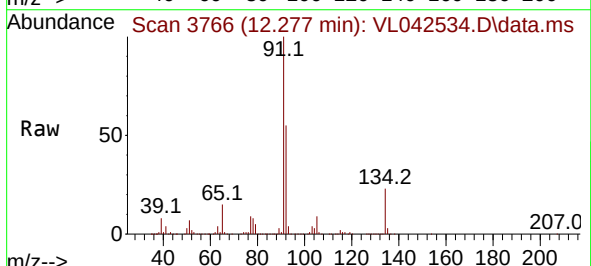
Tgt Ion: 119 Resp: 635040
Ion Ratio Lower Upper
119 100
134 25.1 19.8 29.6
91 29.9 23.6 35.4

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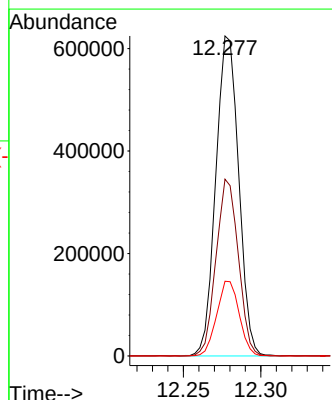
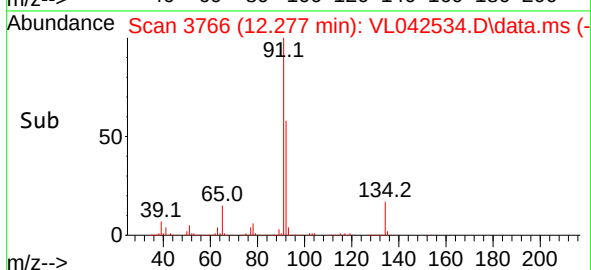
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

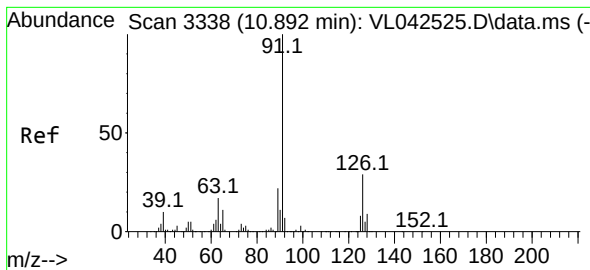


#70
n-Butylbenzene
Concen: 12.192 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. 0.003 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10



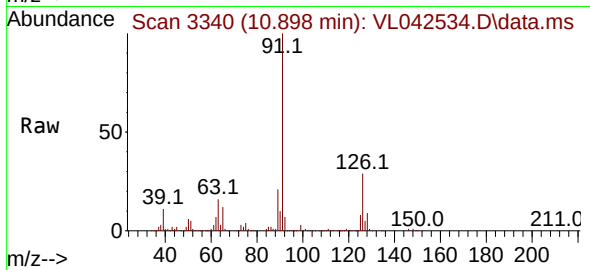
Tgt Ion: 91 Resp: 641756
Ion Ratio Lower Upper
91 100
92 53.8 43.7 65.5
134 23.0 18.9 28.3





#71
2-Chlorotoluene
Concen: 12.354 ppbv
RT: 10.898 min Scan# 3338
Delta R.T. 0.006 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

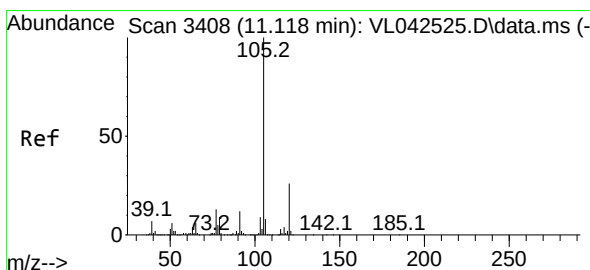
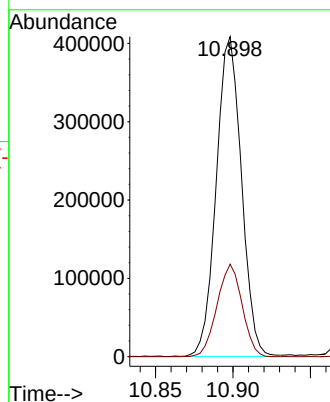
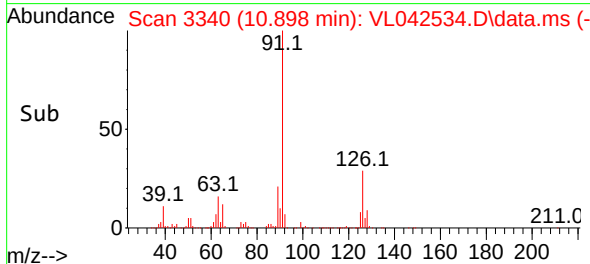
Instrument :
MSVOA_L
ClientSampleId :
ICVVL051225



Tgt Ion: 91 Resp: 460410
Ion Ratio Lower Upper
91 100
126 28.8 11.4 45.6

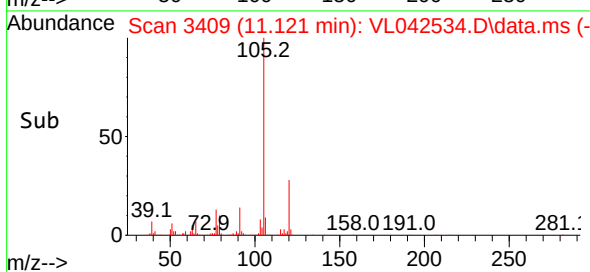
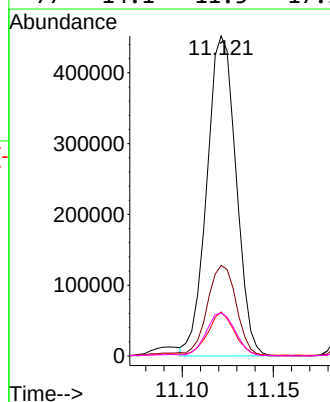
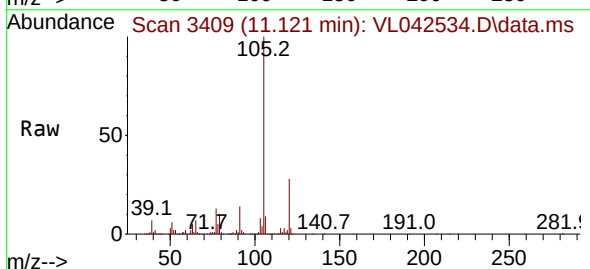
Manual Integrations
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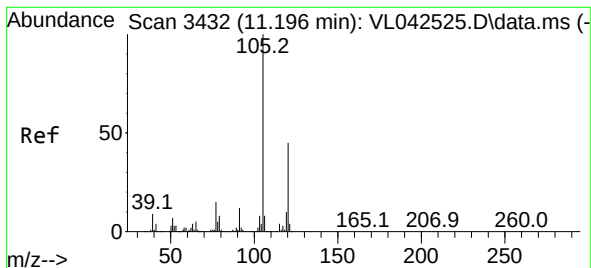
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#72
4-Ethyltoluene
Concen: 12.435 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. 0.003 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

Tgt Ion:105 Resp: 504066
Ion Ratio Lower Upper
105 100
120 29.2 22.9 34.3
91 12.9 10.9 16.3
77 14.1 11.5 17.3





#73

1,3,5-Trimethylbenzene

Concen: 11.906 ppbv

RT: 11.199 min Scan# 3432

Delta R.T. 0.003 min

Lab File: VL042534.D

Acq: 12 May 2025 16:10

Instrument :

MSVOA_L

ClientSampleId :

ICVVL051225

Tgt Ion:105 Resp: 42039

Ion Ratio Lower Upper

105 100

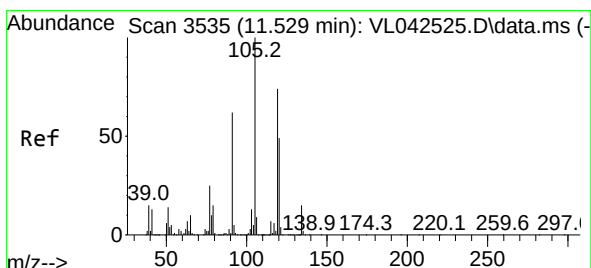
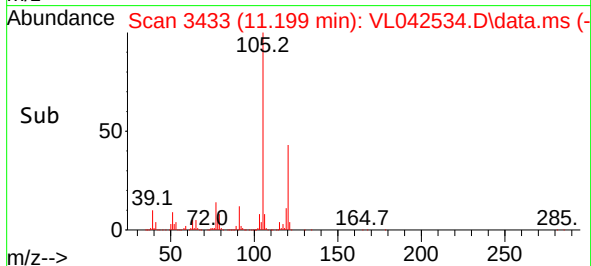
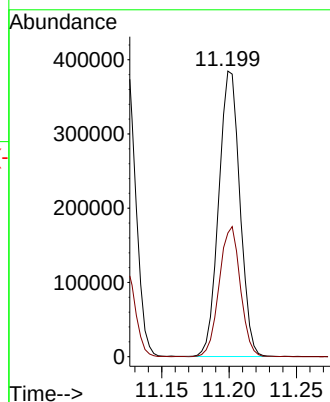
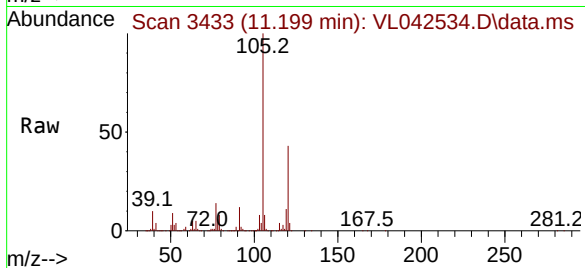
120 43.3 36.0 54.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/14/2025

Supervised By :Mahesh Dadoda 05/14/2025



#74

1,2,4-Trimethylbenzene

Concen: 10.983 ppbv

RT: 11.532 min Scan# 3536

Delta R.T. 0.003 min

Lab File: VL042534.D

Acq: 12 May 2025 16:10

Tgt Ion:105 Resp: 477131

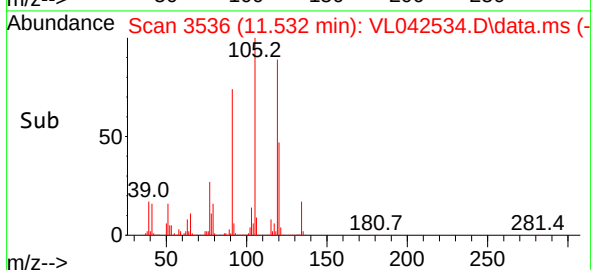
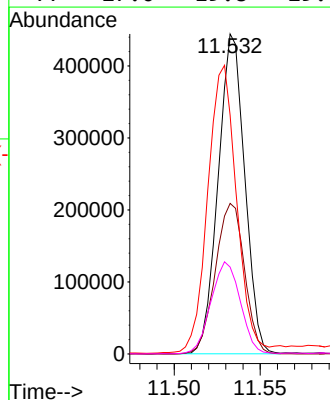
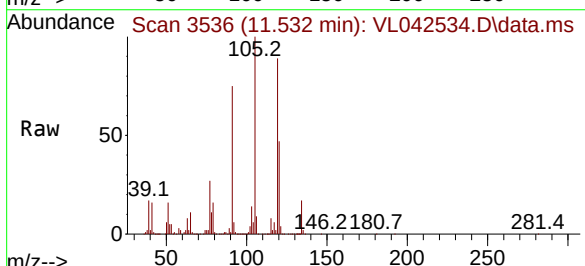
Ion Ratio Lower Upper

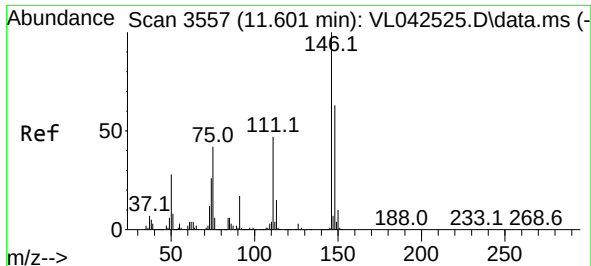
105 100

120 47.0 39.0 58.6

91 73.8 49.4 74.2

77 27.0 19.8 29.6





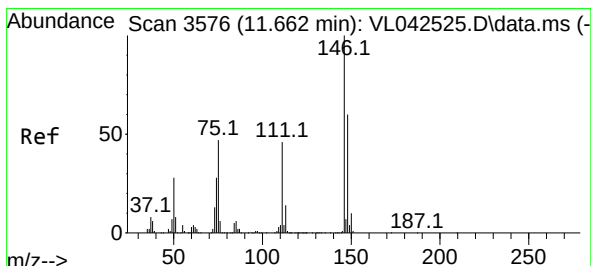
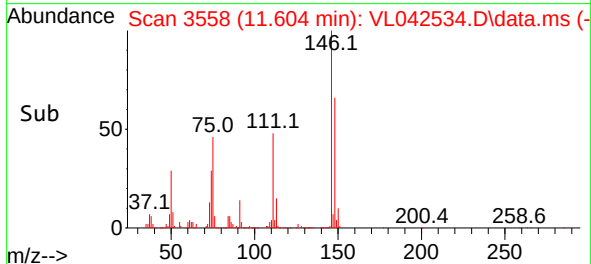
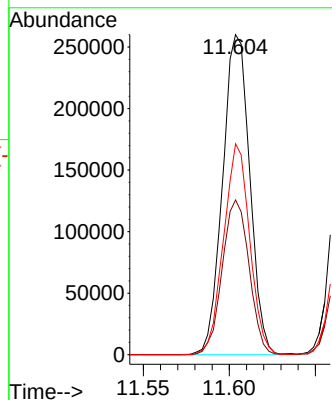
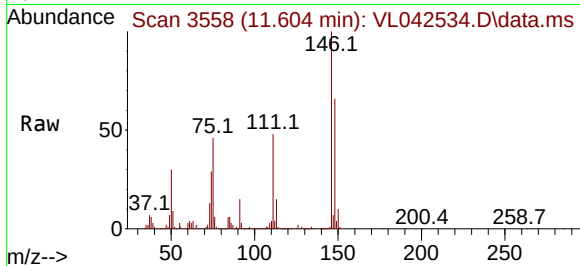
#75
1,3-Dichlorobenzene
Concen: 10.479 ppbv
RT: 11.604 min Scan# 3557
Delta R.T. 0.003 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

Instrument :
MSVOA_L
ClientSampleId :
ICVVL051225

Tgt Ion:146 Resp: 285094
Ion Ratio Lower Upper
146 100
111 47.9 23.6 71.0
148 63.5 31.6 94.8

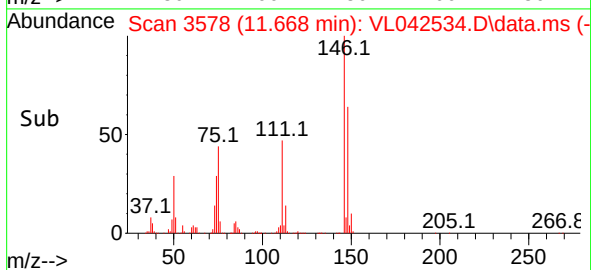
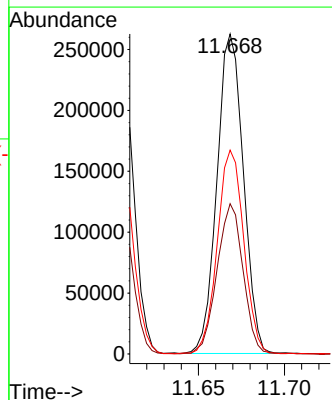
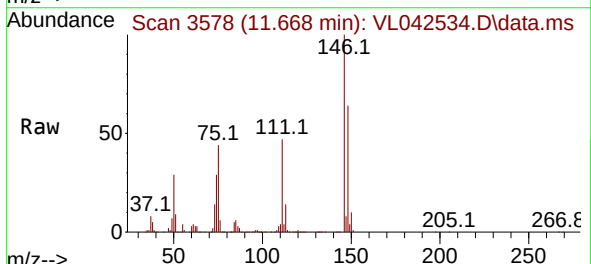
Manual Integrations
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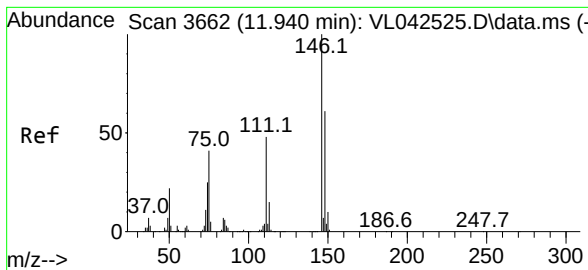
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#76
1,4-Dichlorobenzene
Concen: 10.829 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. 0.006 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

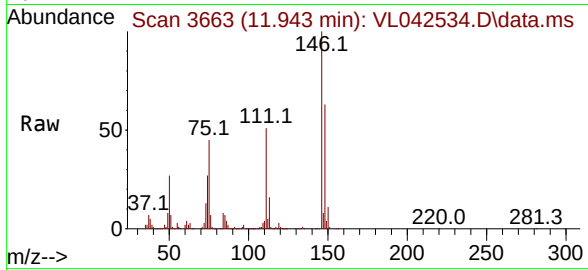
Tgt Ion:146 Resp: 280324
Ion Ratio Lower Upper
146 100
111 46.5 23.4 70.3
148 64.1 31.6 94.7





#77
1,2-Dichlorobenzene
Concen: 9.590 ppbv
RT: 11.943 min Scan# 30
Delta R.T. 0.003 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

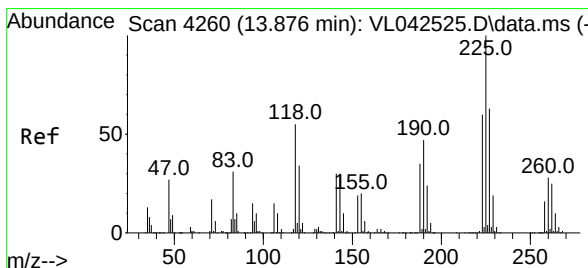
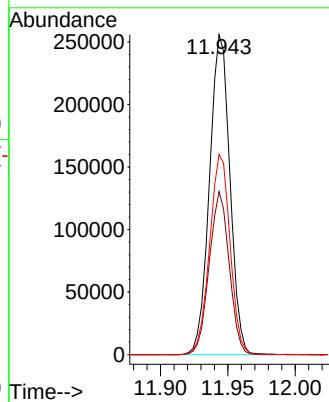
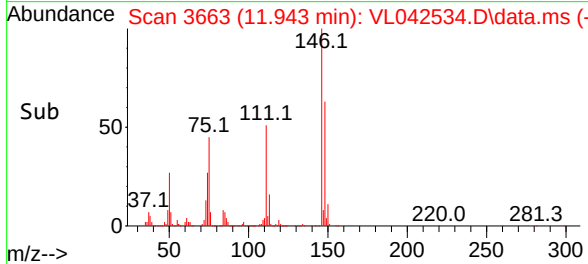
Instrument :
MSVOA_L
ClientSampleId :
ICVVL051225



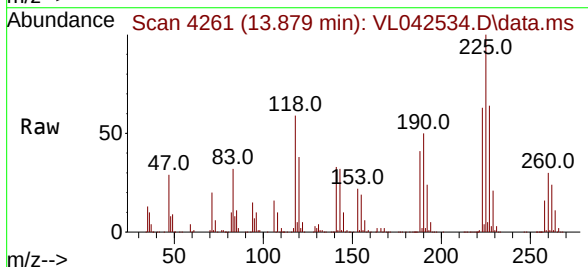
Tgt Ion:146 Resp: 269510
Ion Ratio Lower Upper
146 100
111 49.9 24.9 74.8
148 62.9 31.4 94.2

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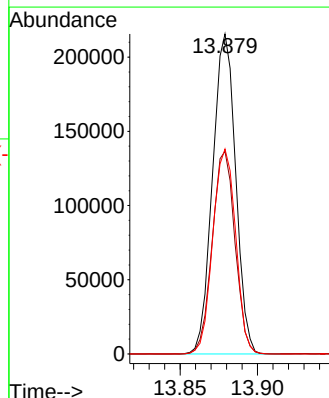
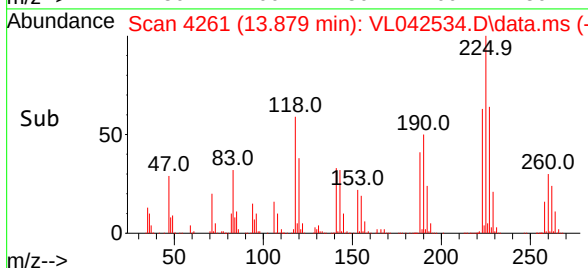
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

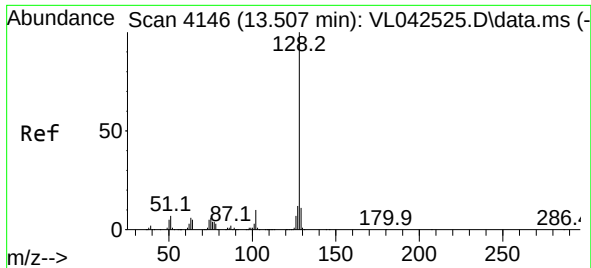


#78
Hexachloro-1,3-Butadiene
Concen: 9.265 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. 0.003 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10



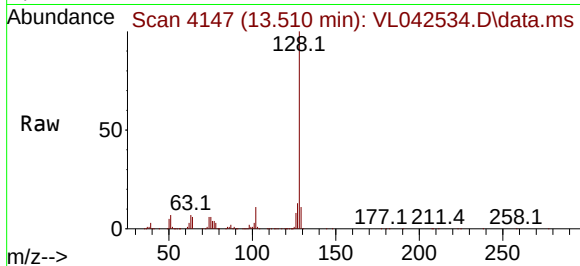
Tgt Ion:225 Resp: 223250
Ion Ratio Lower Upper
225 100
223 62.5 50.8 76.2
227 63.4 50.5 75.7





#79
Naphthalene
Concen: 15.035 ppbv
RT: 13.510 min Scan# 4146
Delta R.T. 0.003 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

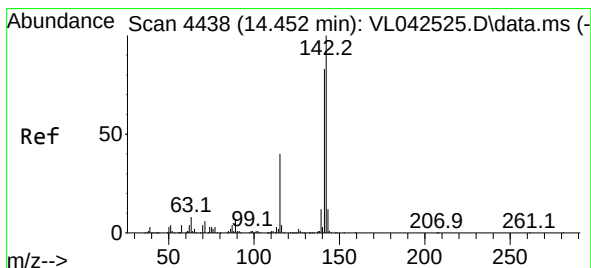
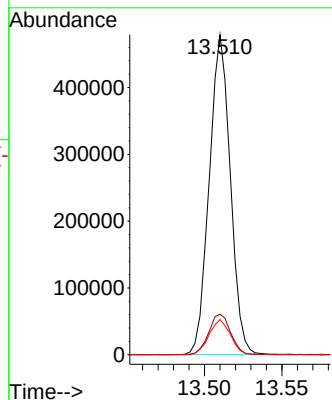
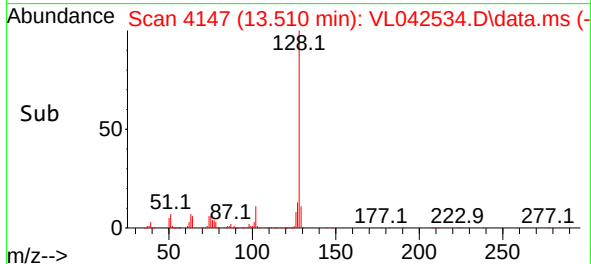
Instrument :
MSVOA_L
ClientSampleId :
ICVVL051225



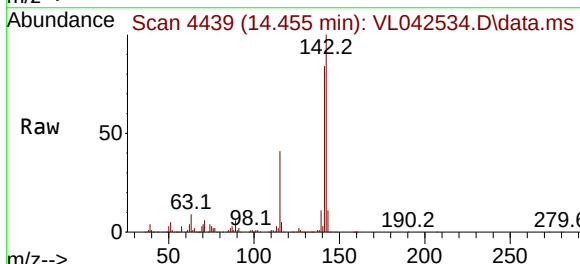
Tgt Ion:128 Resp: 452623
Ion Ratio Lower Upper
128 100
127 12.6 9.8 14.8
129 11.0 8.6 12.8

Manual Integrations
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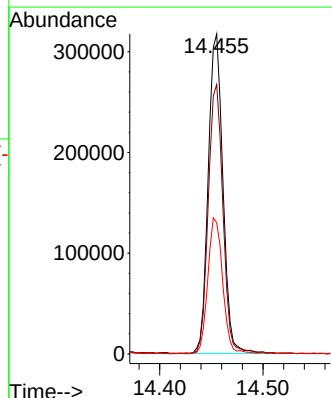
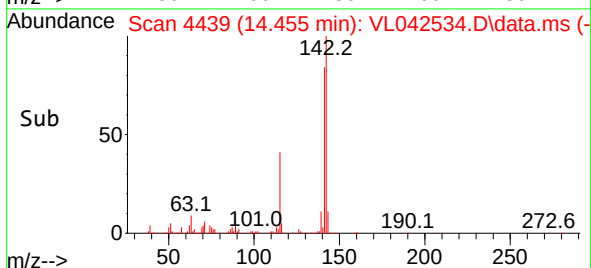
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

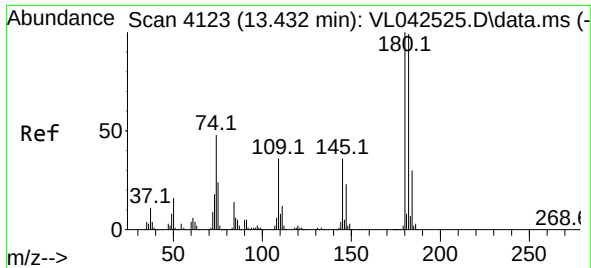


#80
Naphthalene,2-methyl-
Concen: 18.008 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. 0.003 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10



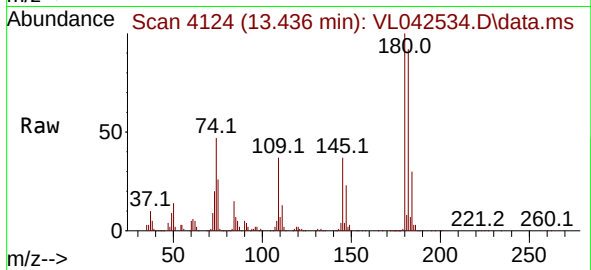
Tgt Ion:142 Resp: 312897
Ion Ratio Lower Upper
142 100
141 84.7 66.8 100.2
115 43.7 33.0 49.6





#81
1,2,4-Trichlorobenzene
Concen: 13.190 ppbv
RT: 13.436 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

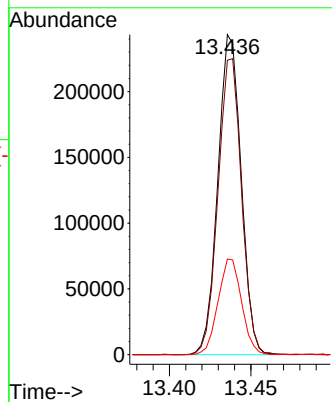
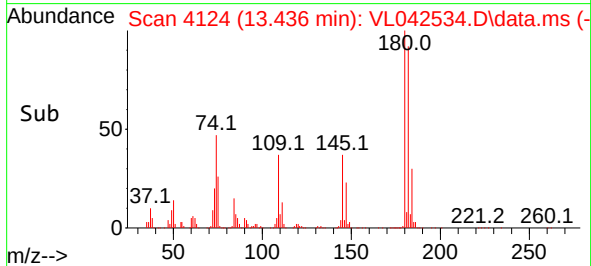
Instrument :
MSVOA_L
ClientSampleId :
ICVVL051225



Tgt Ion:180 Resp: 241524
Ion Ratio Lower Upper
180 100
182 93.7 76.6 114.8
184 30.2 24.6 36.8

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051225\
 Data File : VL042534.D
 Acq On : 12 May 2025 16:10
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL051225

Quant Time: May 13 02:12:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue May 13 02:07:03 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	90	0.00
2 T	Dichlorodifluoromethane	1.624	1.616	0.5	100	0.00
3	Chlorodifluoromethane	1.655	1.715	-3.6	101	0.00
4	Chloromethane	0.663	0.642	3.2	99	0.00
5 T	Vinyl Chloride	0.678	0.629	7.2	103	0.00
6 T	Bromomethane	0.322	0.315	2.2	98	0.00
7	Chloroethane	0.268	0.239	10.8	97	0.00
8 T	Dichlorotetrafluoroethane	1.397	1.354	3.1	99	0.00
9 T	Propene	0.359	0.359	0.0	365#	0.00
10 T	Heptane	1.371	1.688	-23.1	103	0.01
11 T	Trichlorofluoromethane	1.562	1.535	1.7	100	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.255	1.247	0.6	102	0.00
13	Ethanol	0.097	0.075	22.7	100	0.00
14 T	Bromoethene	0.457	0.475	-3.9	105	0.00
15 T	Acetone	1.612	1.342	16.7	100	0.00
16 T	1,3-Butadiene	0.719	0.713	0.8	100	0.00
17	tert-Butyl alcohol	1.477	1.533	-3.8	101	0.00
18 T	1,1-Dichloroethene	0.550	0.551	-0.2	101	0.00
19 T	Isopropyl Alcohol	0.868	0.877	-1.0	102	0.00
20 T	Methylene Chloride	0.556	0.485	12.8	103	0.00
21 T	Allyl Chloride	1.058	1.082	-2.3	99	0.00
22 T	trans-1,2-Dichloroethene	0.643	0.633	1.6	102	0.00
23 T	Vinyl Acetate	1.673	1.735	-3.7	97	0.00
24 T	1,1-Dichloroethane	1.244	1.234	0.8	98	0.00
25 T	Ethyl Acetate	2.806	3.197	-13.9	101	0.00
26 T	Hexane	1.152	1.391	-20.7	104	0.00
27 T	Carbon Disulfide	1.487	1.523	-2.4	98	0.00
28 T	Methyl tert-Butyl Ether	0.640	0.681	-6.4	102	0.00
29 T	Chloroform	2.389	2.369	0.8	101	0.00
30 T	Cyclohexane	0.946	1.200	-26.8	106	0.00
31 T	cis-1,2-Dichloroethene	1.301	1.492	-14.7	106	0.00
32 T	1,1,1-Trichloroethane	2.465	2.487	-0.9	100	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	90	0.00
34 T	2-Butanone	0.659	0.698	-5.9	105	0.00
35 T	Carbon Tetrachloride	0.899	0.894	0.6	100	0.00
36 T	Benzene	0.886	0.980	-10.6	105	0.00
37 T	1,2-Dichloroethane	0.632	0.641	-1.4	102	0.00
38 T	Trichloroethene	0.385	0.403	-4.7	101	0.01
39 T	1,2-Dichloropropane	0.330	0.343	-3.9	100	0.00
40 T	1,4-Dioxane	0.134	0.152	-13.4	102	0.01
41 T	Tetrahydrofuran	0.285	0.351	-23.2	103	0.00
42 T	Bromodichloromethane	0.844	0.873	-3.4	101	0.00
43	Methyl Methacrylate	0.297	0.373	-25.6	105	0.01
44 T	2,2,4-Trimethylpentane	1.404	1.582	-12.7	100	0.00
45 T	t-1,3-Dichloropropene	0.379	0.472	-24.5	106	0.01
46 T	cis-1,3-Dichloropropene	0.456	0.563	-23.5	105	0.01
47 T	1,1,2-Trichloroethane	0.389	0.396	-1.8	102	0.01
48 T	Dibromochloromethane	0.649	0.693	-6.8	101	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051225\
 Data File : VL042534.D
 Acq On : 12 May 2025 16:10
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL051225

Quant Time: May 13 02:12:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue May 13 02:07:03 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	0.533	0.580	-8.8	100	0.00
50 T	4-Methyl-2-Pentanone	0.774	0.919	-18.7	100	0.00
51 T	2-Hexanone	0.576	0.759	-31.8#	104	0.00
52 T	Tetrachloroethene	0.339	0.352	-3.8	101	0.00
53 T	Toluene	0.870	1.089	-25.2	103	0.01
54 T	1,2-Dibromoethane	0.568	0.600	-5.6	102	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	92	0.00
56	1,1,1,2-Tetrachloroethane	0.620	0.582	6.1	97	0.00
57 T	Chlorobenzene	1.004	0.993	1.1	100	0.00
58 T	Ethyl Benzene	1.363	1.764	-29.4	104	0.00
59 T	m/p-Xylene	1.211	1.453	-20.0	100	0.00
60 T	o-Xylene	1.182	1.477	-25.0	102	0.00
61 T	Styrene	0.438	0.601	-37.2#	109	0.00
62	Isopropylbenzene	1.780	2.133	-19.8	102	0.00
63 T	1,1,2,2-Tetrachloroethane	0.959	0.885	7.7	99	0.00
64	n-propylbenzene	0.452	0.542	-19.9	99	0.00
65	tert-Butylbenzene	1.635	1.956	-19.6	101	0.00
66 T	Benzyl Chloride	0.217	0.286	-31.8#	118	0.00
67	sec-Butylbenzene	2.344	2.645	-12.8	98	0.00
68 S	1-Bromo-4-Fluorobenzene	0.870	0.858	1.4	91	0.00
69	p-Isopropyltoluene	1.927	2.297	-19.2	98	0.00
70	n-Butylbenzene	1.904	2.322	-22.0	100	0.00
71	2-Chlorotoluene	1.348	1.666	-23.6	103	0.00
72 T	4-Ethyltoluene	1.466	1.824	-24.4	102	0.00
73 T	1,3,5-Trimethylbenzene	1.277	1.521	-19.1	99	0.00
74 T	1,2,4-Trimethylbenzene	1.572	1.726	-9.8	98	0.00
75 T	1,3-Dichlorobenzene	0.984	1.031	-4.8	100	0.00
76 T	1,4-Dichlorobenzene	0.936	1.014	-8.3	100	0.00
77 T	1,2-Dichlorobenzene	1.017	0.975	4.1	99	0.00
78 T	Hexachloro-1,3-Butadiene	0.872	0.808	7.3	102	0.00
79 T	Naphthalene	1.089	1.637	-50.3#	110	0.00
80 T	Naphthalene,2-methyl-	0.629	1.132	-80.0#	135	0.00
81 T	1,2,4-Trichlorobenzene	0.662	0.874	-32.0#	111	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051225\
 Data File : VL042534.D
 Acq On : 12 May 2025 16:10
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL051225

Quant Time: May 13 02:12:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue May 13 02:07:03 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	90	0.00
2 T	Dichlorodifluoromethane	10.000	9.952	0.5	100	0.00
3	Chlorodifluoromethane	10.000	10.365	-3.7	101	0.00
4	Chloromethane	10.000	9.691	3.1	99	0.00
5 T	Vinyl Chloride	10.000	9.270	7.3	103	0.00
6 T	Bromomethane	10.000	9.781	2.2	98	0.00
7	Chloroethane	10.000	8.935	10.6	97	0.00
8 T	Dichlorotetrafluoroethane	10.000	9.693	3.1	99	0.00
9 T	Propene	10.000	9.995	0.1	365	0.00
10 T	Heptane	10.000	12.306	-23.1	103	0.01
11 T	Trichlorofluoromethane	10.000	9.828	1.7	100	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	9.942	0.6	102	0.00
13	Ethanol	10.000	7.769	22.3	100	0.00
14 T	Bromoethene	10.000	10.383	-3.8	105	0.00
15 T	Acetone	10.000	8.325	16.8	100	0.00
16 T	1,3-Butadiene	10.000	9.920	0.8	100	0.00
17	tert-Butyl alcohol	10.000	10.379	-3.8	101	0.00
18 T	1,1-Dichloroethene	10.000	10.028	-0.3	101	0.00
19 T	Isopropyl Alcohol	10.000	10.098	-1.0	102	0.00
20 T	Methylene Chloride	10.000	8.718	12.8	103	0.00
21 T	Allyl Chloride	10.000	10.227	-2.3	99	0.00
22 T	trans-1,2-Dichloroethene	10.000	9.849	1.5	102	0.00
23 T	Vinyl Acetate	10.000	10.371	-3.7	97	0.00
24 T	1,1-Dichloroethane	10.000	9.919	0.8	98	0.00
25 T	Ethyl Acetate	10.000	11.394	-13.9	101	0.00
26 T	Hexane	10.000	12.078	-20.8	104	0.00
27 T	Carbon Disulfide	10.000	10.243	-2.4	98	0.00
28 T	Methyl tert-Butyl Ether	10.000	10.640	-6.4	102	0.00
29 T	Chloroform	10.000	9.916	0.8	101	0.00
30 T	Cyclohexane	10.000	12.687	-26.9	106	0.00
31 T	cis-1,2-Dichloroethene	10.000	11.469	-14.7	106	0.00
32 T	1,1,1-Trichloroethane	10.000	10.089	-0.9	100	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	90	0.00
34 T	2-Butanone	10.000	10.593	-5.9	105	0.00
35 T	Carbon Tetrachloride	10.000	9.944	0.6	100	0.00
36 T	Benzene	10.000	11.060	-10.6	105	0.00
37 T	1,2-Dichloroethane	10.000	10.133	-1.3	102	0.00
38 T	Trichloroethene	10.000	10.461	-4.6	101	0.01
39 T	1,2-Dichloropropane	10.000	10.381	-3.8	100	0.00
40 T	1,4-Dioxane	10.000	11.326	-13.3	102	0.01
41 T	Tetrahydrofuran	10.000	12.288	-22.9	103	0.00
42 T	Bromodichloromethane	10.000	10.344	-3.4	101	0.00
43	Methyl Methacrylate	10.000	12.553	-25.5	105	0.01
44 T	2,2,4-Trimethylpentane	10.000	11.264	-12.6	100	0.00
45 T	t-1,3-Dichloropropene	10.000	12.452	-24.5	106	0.01
46 T	cis-1,3-Dichloropropene	10.000	12.337	-23.4	105	0.01
47 T	1,1,2-Trichloroethane	10.000	10.192	-1.9	102	0.01
48 T	Dibromochloromethane	10.000	10.680	-6.8	101	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051225\
 Data File : VL042534.D
 Acq On : 12 May 2025 16:10
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL051225

Quant Time: May 13 02:12:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue May 13 02:07:03 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	Bromoform	10.000	10.893	-8.9	100	0.00
50 T	4-Methyl-2-Pentanone	10.000	11.865	-18.7	100	0.00
51 T	2-Hexanone	10.000	13.181	-31.8#	104	0.00
52 T	Tetrachloroethene	10.000	10.391	-3.9	101	0.00
53 T	Toluene	10.000	12.519	-25.2	103	0.01
54 T	1,2-Dibromoethane	10.000	10.565	-5.6	102	0.00
55 I	Chlorobenzene-d5	10.000	10.000	0.0	92	0.00
56	1,1,1,2-Tetrachloroethane	10.000	9.389	6.1	97	0.00
57 T	Chlorobenzene	10.000	9.890	1.1	100	0.00
58 T	Ethyl Benzene	10.000	12.941	-29.4	104	0.00
59 T	m/p-Xylene	20.000	24.002	-20.0	100	0.00
60 T	o-Xylene	10.000	12.495	-24.9	102	0.00
61 T	Styrene	10.000	13.737	-37.4#	109	0.00
62	Isopropylbenzene	10.000	11.978	-19.8	102	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	9.228	7.7	99	0.00
64	n-propylbenzene	10.000	11.993	-19.9	99	0.00
65	tert-Butylbenzene	10.000	11.963	-19.6	101	0.00
66 T	Benzyl Chloride	10.000	13.151	-31.5#	118	0.00
67	sec-Butylbenzene	10.000	11.283	-12.8	98	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	9.861	1.4	91	0.00
69	p-Isopropyltoluene	10.000	11.921	-19.2	98	0.00
70	n-Butylbenzene	10.000	12.192	-21.9	100	0.00
71	2-Chlorotoluene	10.000	12.354	-23.5	103	0.00
72 T	4-Ethyltoluene	10.000	12.435	-24.4	102	0.00
73 T	1,3,5-Trimethylbenzene	10.000	11.906	-19.1	99	0.00
74 T	1,2,4-Trimethylbenzene	10.000	10.983	-9.8	98	0.00
75 T	1,3-Dichlorobenzene	10.000	10.479	-4.8	100	0.00
76 T	1,4-Dichlorobenzene	10.000	10.829	-8.3	100	0.00
77 T	1,2-Dichlorobenzene	10.000	9.590	4.1	99	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	9.265	7.3	102	0.00
79 T	Naphthalene	10.000	15.035	-50.4#	110	0.00
80 T	Naphthalene,2-methyl-	10.000	18.008	-80.1#	135	0.00
81 T	1,2,4-Trichlorobenzene	10.000	13.190	-31.9#	111	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GFEL01

Lab Code: CHEM Case No.: Q2037 SAS No.: Q2037 SDG No.: Q2037

Instrument ID: MSVOA_L Calibration Date/Time: 05/14/2025 10:23

Lab File ID: VL042536.D Init. Calib. Date(s): 05/12/2025 05/12/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 08:57 14:28

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

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Vinyl Chloride	0.678	0.550		-18.88	30
1,1-Dichloroethene	0.550	0.528		-4	30
cis-1,2-Dichloroethene	1.301	1.220		-6.23	30
1,1,1-Trichloroethane	2.465	2.166		-12.13	30
Trichloroethene	0.385	0.350		-9.09	30
Tetrachloroethene	0.339	0.304		-10.32	30
1-Bromo-4-Fluorobenzene	0.870	0.871		0.12	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\VL051425\
 Data File : VL042536.D
 Acq On : 14 May 2025 10:23
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 05/15/2025
 Supervised By : Mahesh Dadoda 05/15/2025

Quant Time: May 15 01:31:30 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M

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

QLast Update : Tue May 13 02:07:03 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.791	49	118016	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	3.962	114	346885	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.885	117	301246	10.000	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 262420 10.012 ppbv 0.02
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.100%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	171613	8.955	ppbv	98
3) Chlorodifluoromethane	1.476	51	178542	9.142	ppbv	99
4) Chloromethane	1.535	50	70011	8.951	ppbv	94
5) Vinyl Chloride	1.580	62	64926	8.113	ppbv	99
6) Bromomethane	1.671	94	34232	9.007	ppbv	94
7) Chloroethane	1.706	64	25275	7.999	ppbv	95
8) Dichlorotetrafluoroethane	1.554	85	145026	8.795	ppbv	97
9) Propene	1.486	41	58640m	13.846	ppbv	
10) Heptane	4.985	43	167648	10.358	ppbv	100
11) Trichlorofluoromethane	1.878	101	174991	9.493	ppbv	95
12) 1,1,2-Trichlorotrifluo...	2.143	101	140590	9.496	ppbv	99
13) Ethanol	1.722	45	8187	7.187	ppbv	95
14) Bromoethene	1.784	108	49951	9.254	ppbv	99
15) Acetone	1.836	43	144309	7.586	ppbv	99
16) 1,3-Butadiene	1.609	39	76085	8.972	ppbv	97
17) tert-Butyl alcohol	2.043	59	167624	9.620	ppbv	99
18) 1,1-Dichloroethene	2.036	96	62337	9.607	ppbv	97
19) Isopropyl Alcohol	1.888	45	93610	9.138	ppbv	100
20) Methylene Chloride	2.062	84	55969	8.523	ppbv	98
21) Allyl Chloride	2.098	41	119972	9.609	ppbv	98
22) trans-1,2-Dichloroethene	2.344	96	70366	9.270	ppbv	92
23) Vinyl Acetate	2.464	43	194509	9.852	ppbv #	99
24) 1,1-Dichloroethane	2.412	63	139379	9.491	ppbv	98
25) Ethyl Acetate	2.839	43	320825	9.689	ppbv	100
26) Hexane	2.826	57	142712	10.498	ppbv	95
27) Carbon Disulfide	2.153	76	173546	9.889	ppbv	97
28) Methyl tert-Butyl Ether	2.444	73	84256	11.156	ppbv	96
29) Chloroform	2.852	83	250373	8.880	ppbv	98
30) Cyclohexane	3.862	84	117210	10.502	ppbv	99
31) cis-1,2-Dichloroethene	2.723	61	144036	9.383	ppbv	94
32) 1,1,1-Trichloroethane	3.370	97	255645	8.787	ppbv	97
34) 2-Butanone	2.557	43	198101	8.664	ppbv	100
35) Carbon Tetrachloride	3.765	117	279020	8.947	ppbv	98
36) Benzene	3.661	78	292705	9.521	ppbv	99
37) 1,2-Dichloroethane	3.221	62	194846	8.885	ppbv	99
38) Trichloroethene	4.551	130	121523	9.092	ppbv	98
39) 1,2-Dichloropropane	4.318	63	102683	8.967	ppbv	94
40) 1,4-Dioxane	4.584	88	45600	9.810	ppbv #	90
41) Tetrahydrofuran	3.056	42	103053	10.412	ppbv	99
42) Bromodichloromethane	4.493	83	268737	9.183	ppbv	94
43) Methyl Methacrylate	4.888	69	107482m	10.440	ppbv	
44) 2,2,4-Trimethylpentane	4.645	57	482249	9.900	ppbv	99
45) t-1,3-Dichloropropene	6.419	75	135101	10.271	ppbv	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051425\
 Data File : VL042536.D
 Acq On : 14 May 2025 10:23
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/15/2025
 Supervised By :Mahesh Dadoda 05/15/2025

Quant Time: May 15 01:31:30 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M

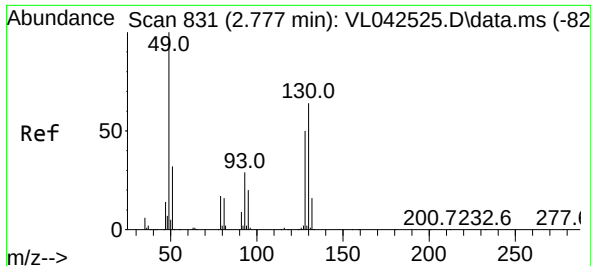
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue May 13 02:07:03 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.606	75	162473	10.268	ppbv	94
47) 1,1,2-Trichloroethane	6.587	97	121339	8.999	ppbv	97
48) Dibromochloromethane	7.393	129	214390	9.523	ppbv	98
49) Bromoform	9.487	173	180872	9.790	ppbv	99
50) 4-Methyl-2-Pentanone	5.759	43	277297	10.326	ppbv	99
51) 2-Hexanone	7.442	43	226925	11.360	ppbv #	99
52) Tetrachloroethene	8.231	164	105432	8.964	ppbv	97
53) Toluene	6.940	91	324628	10.761	ppbv	99
54) 1,2-Dibromoethane	7.655	107	182645	9.275	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.930	131	166298	8.904	ppbv	98
57) Chlorobenzene	8.927	112	271874	8.989	ppbv	96
58) Ethyl Benzene	9.361	91	470778	11.466	ppbv	90
59) m/p-Xylene	9.558	91	796362m	21.838	ppbv	
60) o-Xylene	9.966	91	400752	11.253	ppbv	99
61) Styrene	9.876	104	155757	11.809	ppbv	99
62) Isopropylbenzene	10.542	105	582836	10.866	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.969	83	247714	8.570	ppbv	100
64) n-propylbenzene	10.992	120	149494	10.978	ppbv	97
65) tert-Butylbenzene	11.536	119	531415	10.790	ppbv	100
66) Benzyl Chloride	11.620	91	68005	10.391	ppbv	97
67) sec-Butylbenzene	11.772	105	733701	10.390	ppbv	100
69) p-Isopropyltoluene	11.928	119	641428	11.049	ppbv	100
70) n-Butylbenzene	12.284	91	637479	11.113	ppbv	99
71) 2-Chlorotoluene	10.905	91	449790	11.075	ppbv	99
72) 4-Ethyltoluene	11.128	105	497072	11.252	ppbv	99
73) 1,3,5-Trimethylbenzene	11.206	105	417484	10.849	ppbv	100
74) 1,2,4-Trimethylbenzene	11.539	105	474163	10.016	ppbv	93
75) 1,3-Dichlorobenzene	11.610	146	280626	9.464	ppbv	99
76) 1,4-Dichlorobenzene	11.675	146	280915	9.958	ppbv	100
77) 1,2-Dichlorobenzene	11.950	146	272842	8.908	ppbv	99
78) Hexachloro-1,3-Butadiene	13.886	225	225532	8.588	ppbv	99
79) Naphthalene	13.517	128	441576	13.459	ppbv	96
80) Naphthalene,2-methyl-	14.459	142	275041	14.525	ppbv	99
81) 1,2,4-Trichlorobenzene	13.442	180	227198	11.385	ppbv	99

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



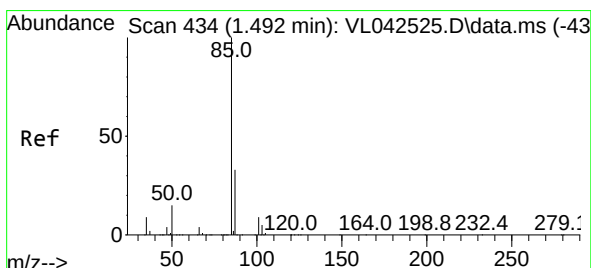
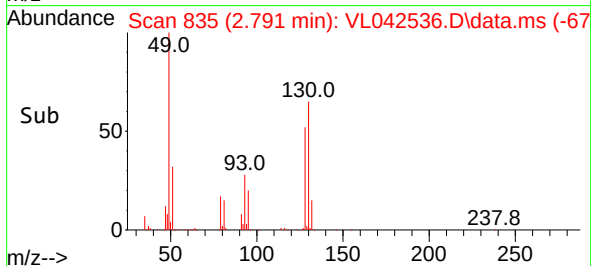
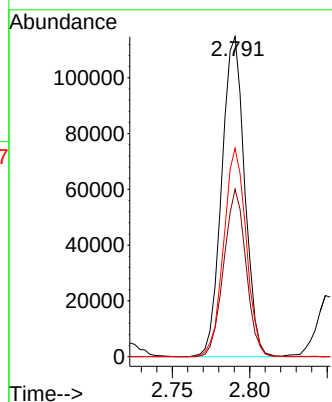
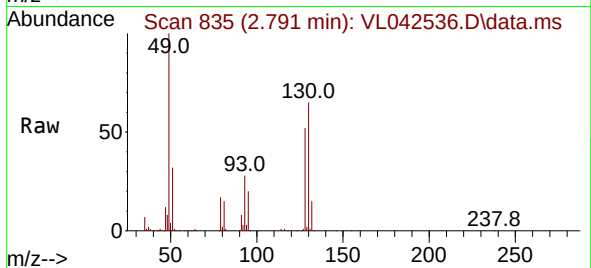
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Bromochloromethane
Concen: 10.000 ppbv
RT: 2.791 min Scan# 81
Delta R.T. 0.014 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 49 Resp: 118010
Ion Ratio Lower Upper
49 100
128 50.7 24.9 74.6
130 64.0 32.5 97.5

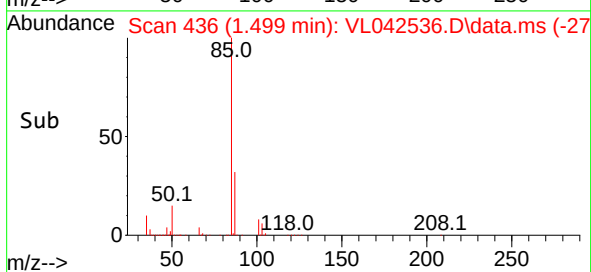
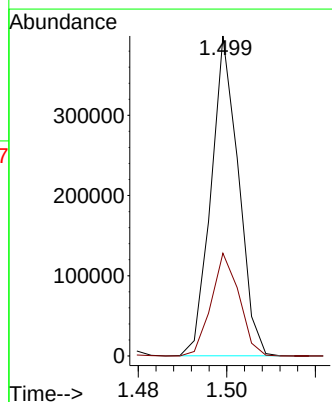
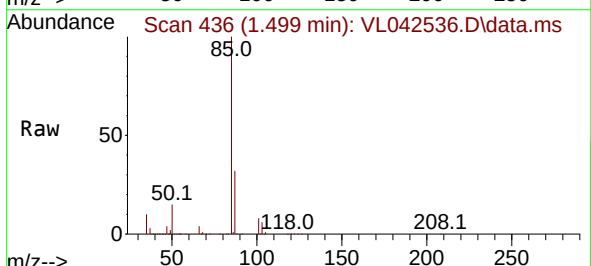
Manual Integrations
APPROVED

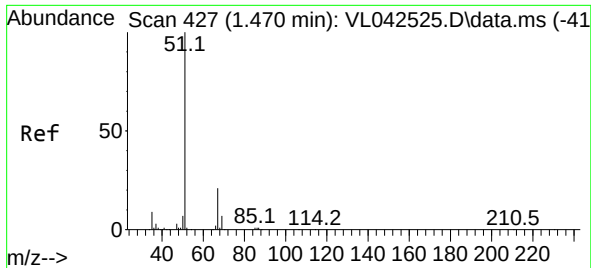
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#2
Dichlorodifluoromethane
Concen: 8.955 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.007 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

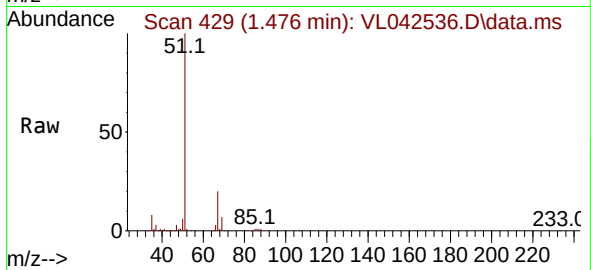
Tgt Ion: 85 Resp: 171613
Ion Ratio Lower Upper
85 100
87 32.1 26.8 40.2





#3
Chlorodifluoromethane
Concen: 9.142 ppbv
RT: 1.476 min Scan# 41
Delta R.T. 0.007 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

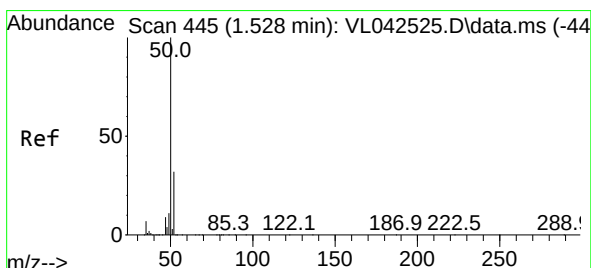
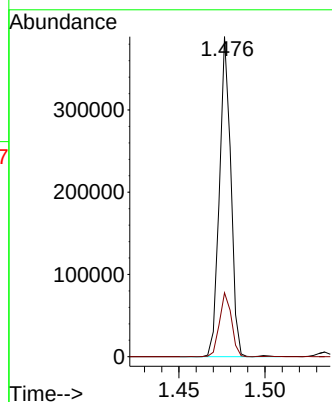
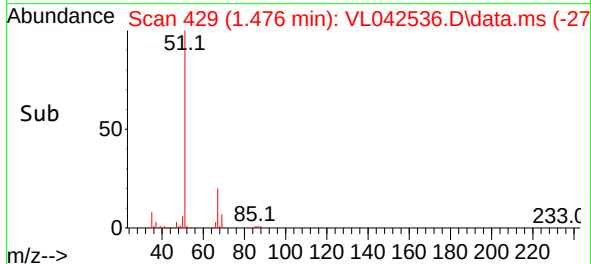
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



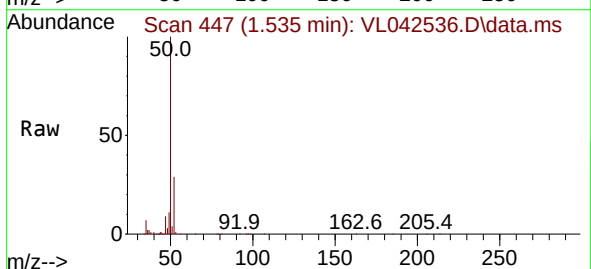
Tgt Ion: 51 Resp: 17854
Ion Ratio Lower Upper
51 100
67 21.3 17.4 26.0

Manual Integrations
APPROVED

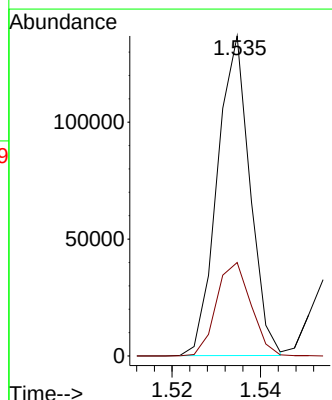
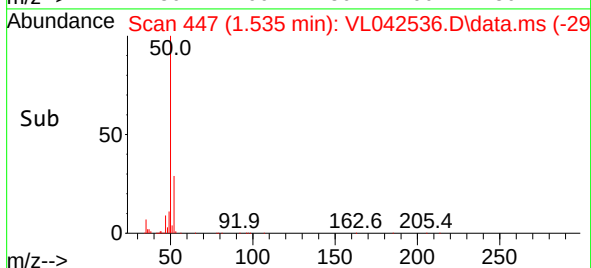
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025

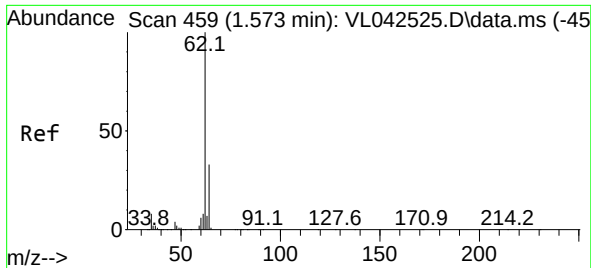


#4
Chloromethane
Concen: 8.951 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.007 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23



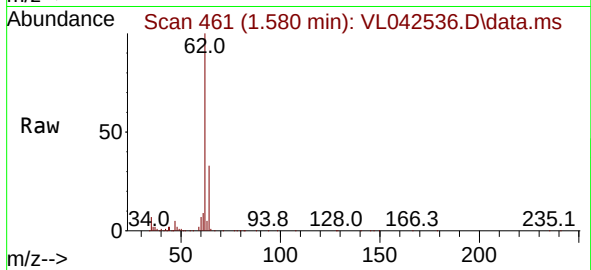
Tgt Ion: 50 Resp: 70011
Ion Ratio Lower Upper
50 100
52 29.2 25.9 38.9





#5
 Vinyl Chloride
 Concen: 8.113 ppbv
 RT: 1.580 min Scan# 40
 Delta R.T. 0.007 min
 Lab File: VL042536.D
 Acq: 14 May 2025 10:23

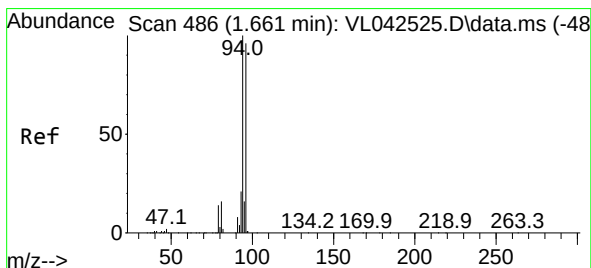
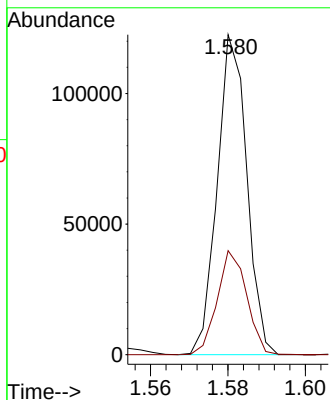
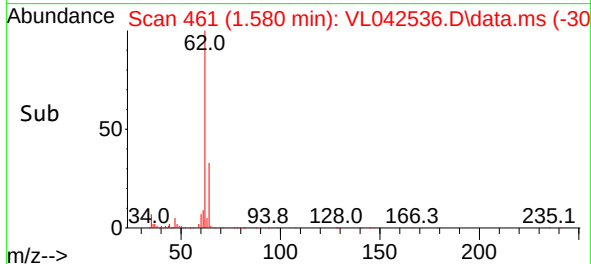
Instrument :
 MSVOA_L
 ClientSampleId :
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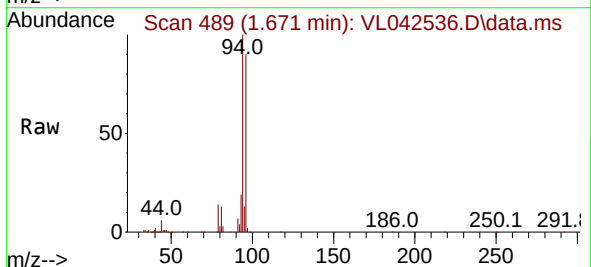
Tgt Ion: 62 Resp: 64920
 Ion Ratio Lower Upper
 62 100
 64 32.5 26.5 39.7

Manual Integrations
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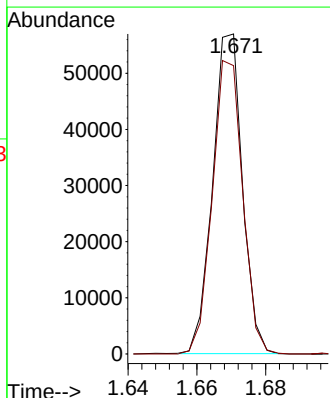
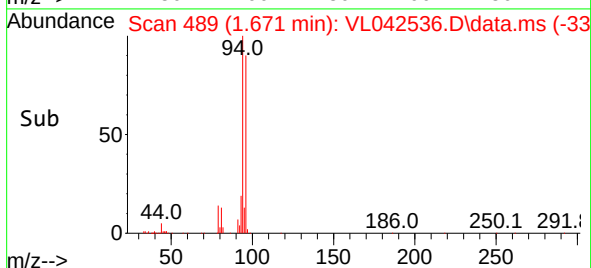
Reviewed By :Semsettin Yesilyurt 05/15/2025
 Supervised By :Mahesh Dadoda 05/15/2025

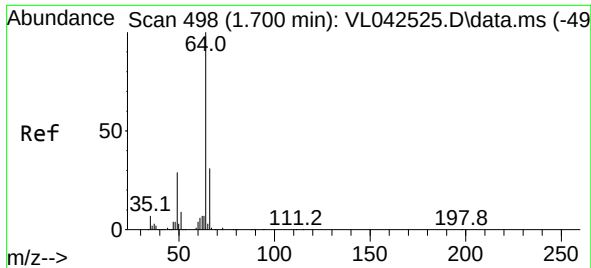


#6
 Bromomethane
 Concen: 9.007 ppbv
 RT: 1.671 min Scan# 489
 Delta R.T. 0.010 min
 Lab File: VL042536.D
 Acq: 14 May 2025 10:23



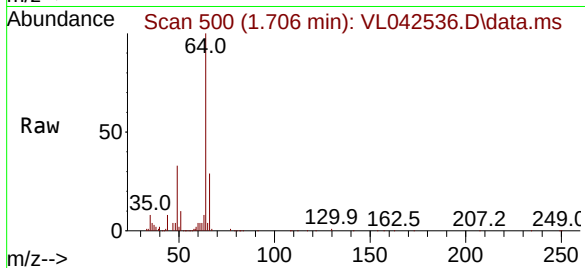
Tgt Ion: 94 Resp: 34232
 Ion Ratio Lower Upper
 94 100
 96 90.2 76.9 115.3





#7
Chloroethane
Concen: 7.999 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.007 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

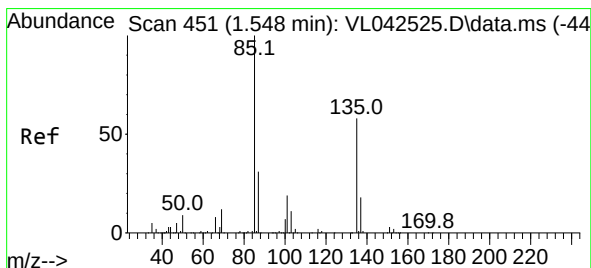
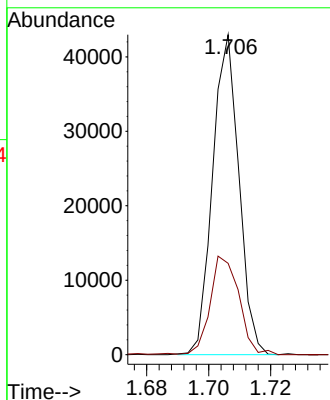
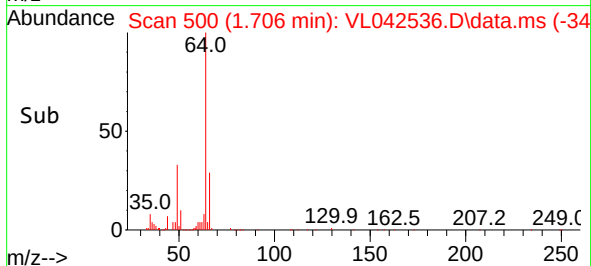
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



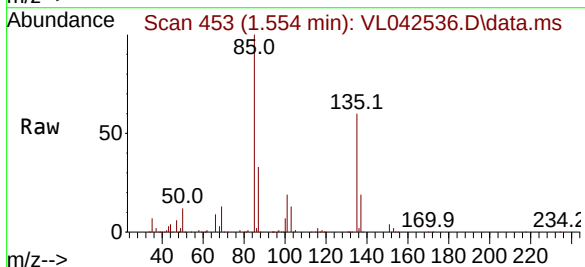
Tgt Ion: 64 Resp: 25279
Ion Ratio Lower Upper
64 100
66 28.6 25.1 37.7

Manual Integrations
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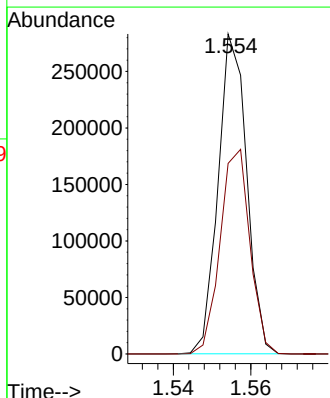
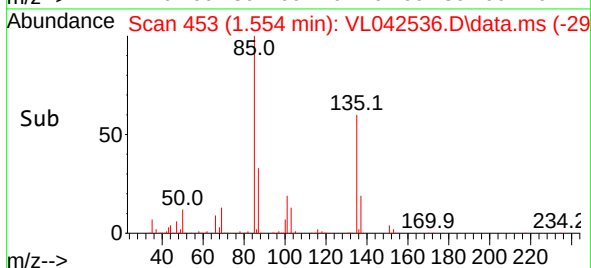
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025

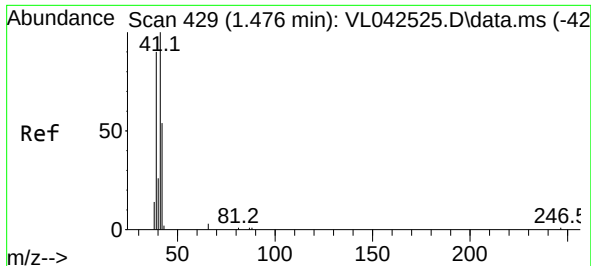


#8
Dichlorotetrafluoroethane
Concen: 8.795 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.007 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23



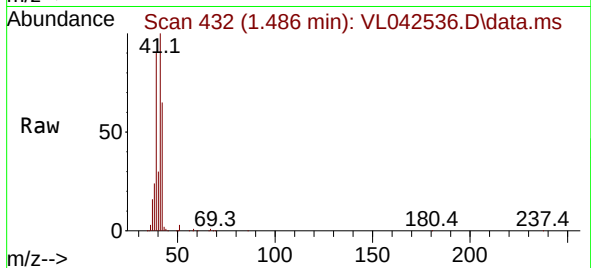
Tgt Ion: 85 Resp: 145026
Ion Ratio Lower Upper
85 100
135 66.9 51.8 77.8





#9
 Propene
 Concen: 13.846 ppbv m
 RT: 1.486 min Scan# 41
 Delta R.T. 0.010 min
 Lab File: VL042536.D
 Acq: 14 May 2025 10:23

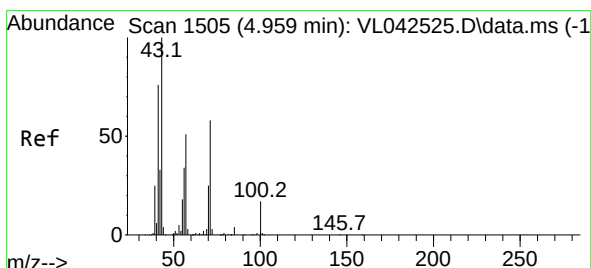
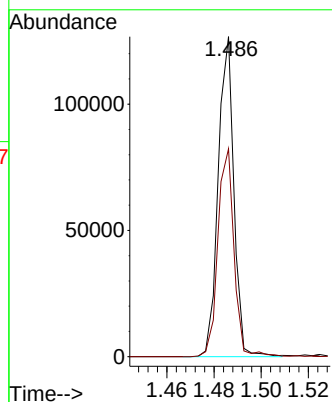
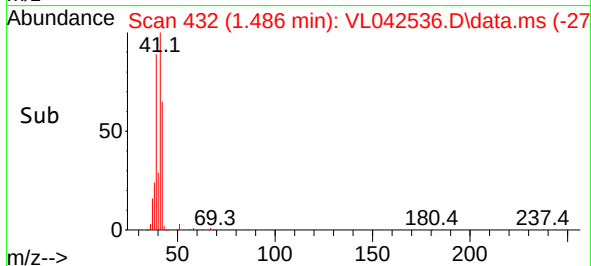
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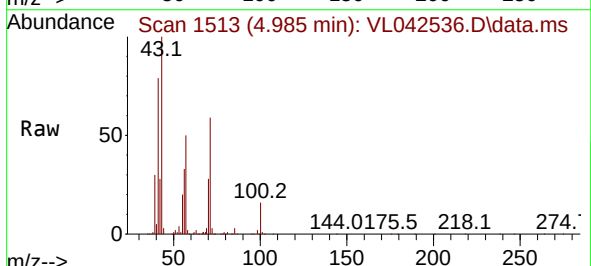
Tgt Ion: 41 Resp: 58640
 Ion Ratio Lower Upper
 41 100
 42 4.4 4.1 6.1

Manual Integrations
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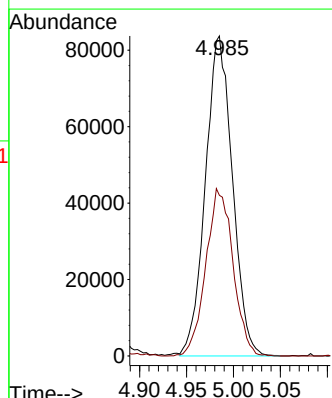
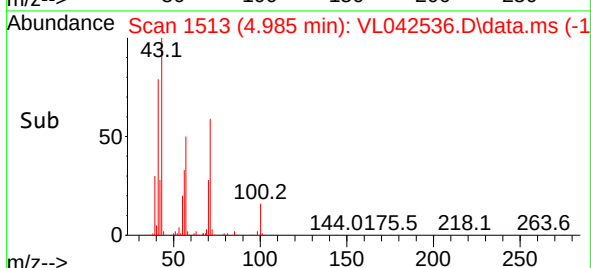
Reviewed By :Semsettin Yesilyurt 05/15/2025
 Supervised By :Mahesh Dadoda 05/15/2025

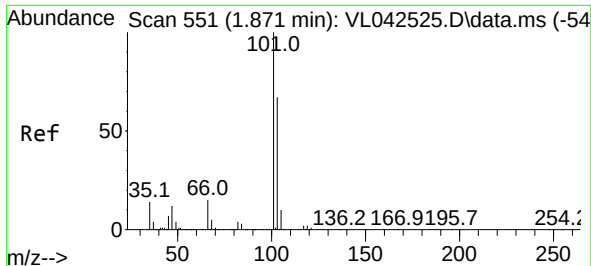


#10
 Heptane
 Concen: 10.358 ppbv
 RT: 4.985 min Scan# 1513
 Delta R.T. 0.026 min
 Lab File: VL042536.D
 Acq: 14 May 2025 10:23



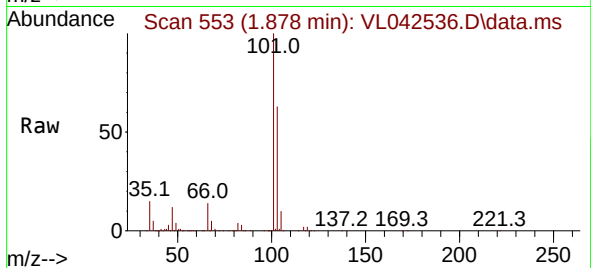
Tgt Ion: 43 Resp: 167648
 Ion Ratio Lower Upper
 43 100
 57 52.5 42.1 63.1





#11
Trichlorofluoromethane
Concen: 9.493 ppbv
RT: 1.878 min Scan# 511
Delta R.T. 0.007 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

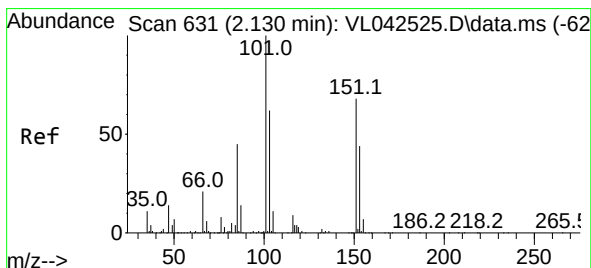
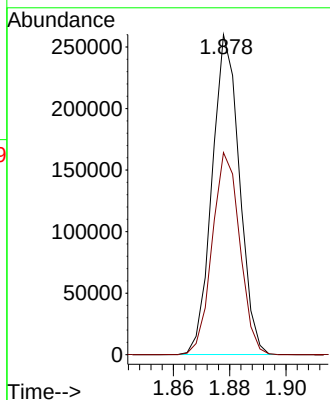
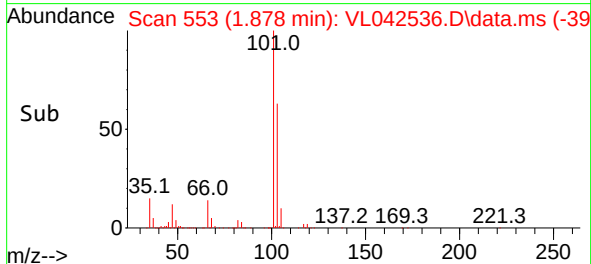
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MSVOA_L
ClientSampleId :
VSTDCCC010



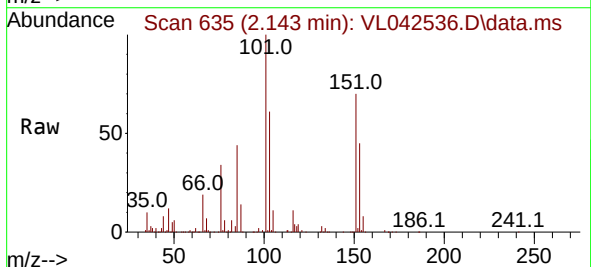
Tgt Ion:101 Resp: 17499
Ion Ratio Lower Upper
101 100
103 63.2 53.8 80.6

Manual Integrations
APPROVED

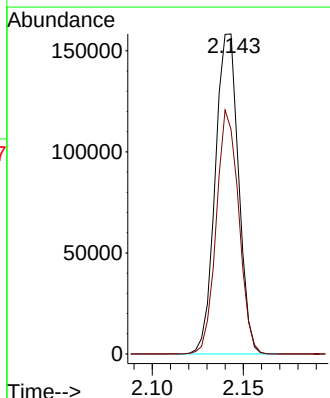
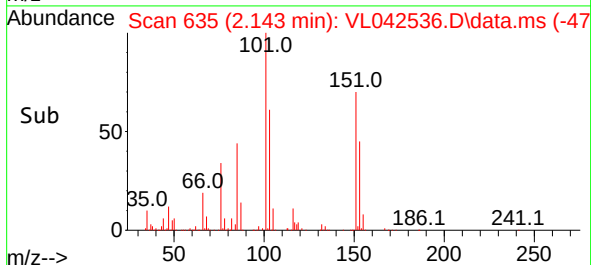
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025

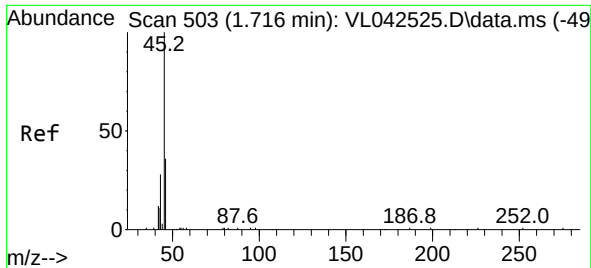


#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.496 ppbv
RT: 2.143 min Scan# 635
Delta R.T. 0.013 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23



Tgt Ion:101 Resp: 140590
Ion Ratio Lower Upper
101 100
151 73.4 57.8 86.8





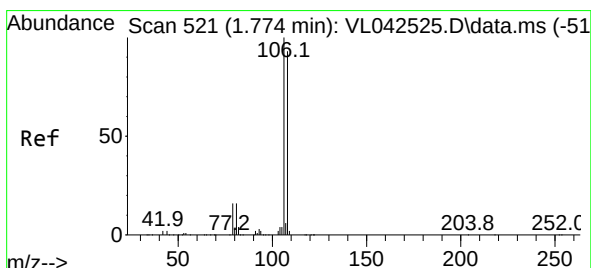
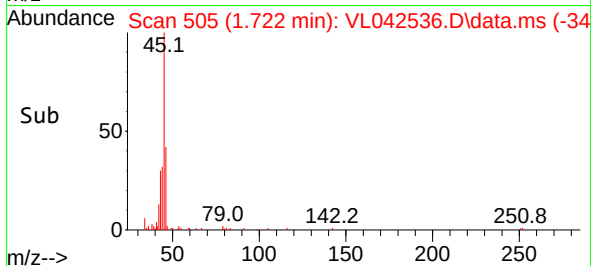
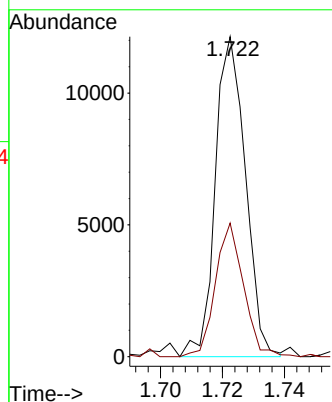
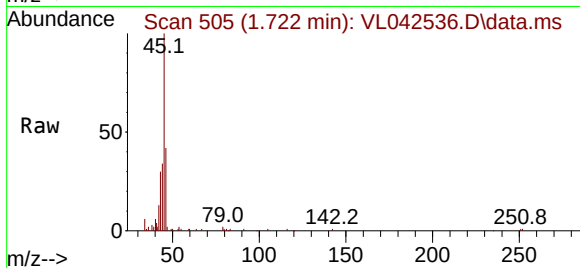
#13
Ethanol
Concen: 7.187 ppbv
RT: 1.722 min Scan# 503
Delta R.T. 0.007 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 45 Resp: 818
Ion Ratio Lower Upper
45 100
46 40.0 14.8 59.4

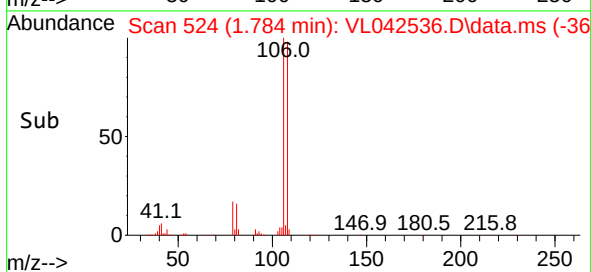
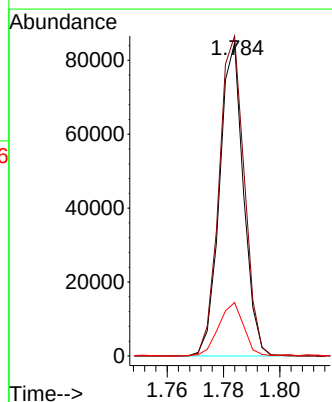
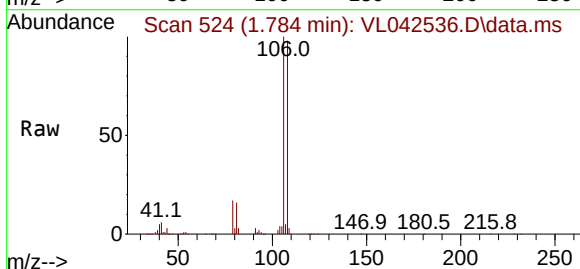
Manual Integrations
APPROVED

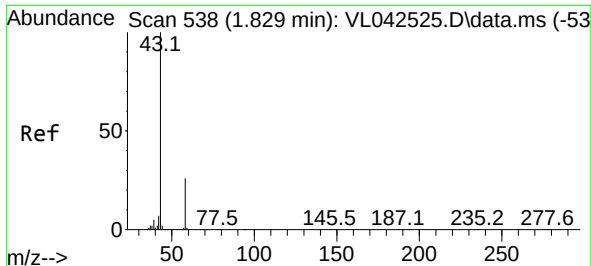
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#14
Bromoethene
Concen: 9.254 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.010 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

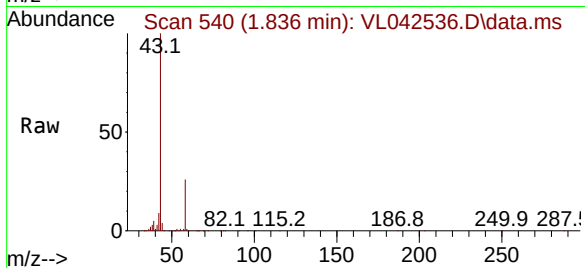
Tgt Ion:108 Resp: 49951
Ion Ratio Lower Upper
108 100
106 107.9 87.4 131.2
79 18.6 15.1 22.7





#15
Acetone
Concen: 7.586 ppbv
RT: 1.836 min Scan# 54
Delta R.T. 0.007 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

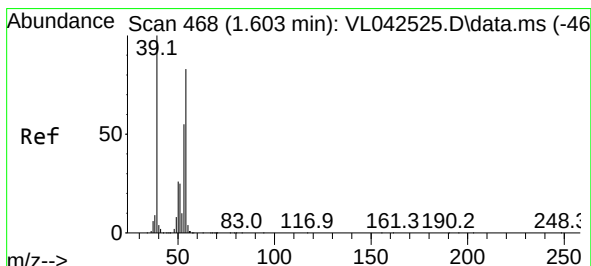
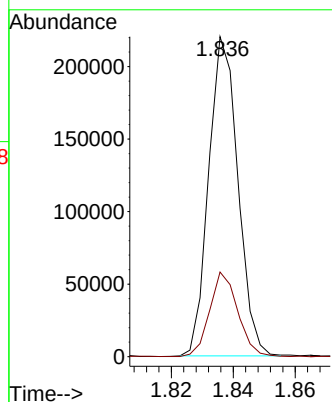
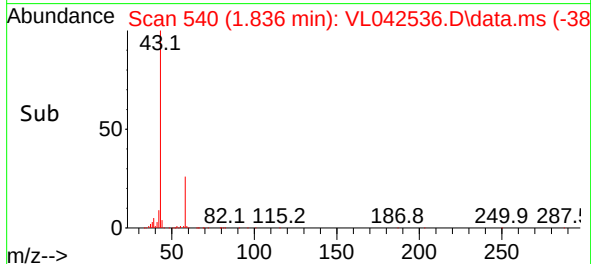
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion: 43 Resp: 144309
Ion Ratio Lower Upper
43 100
58 25.9 21.3 31.9

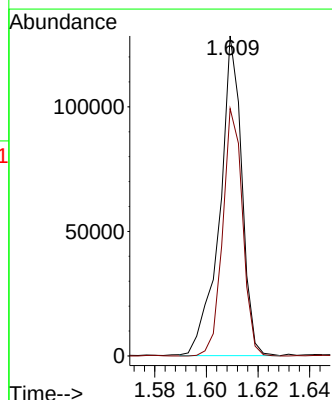
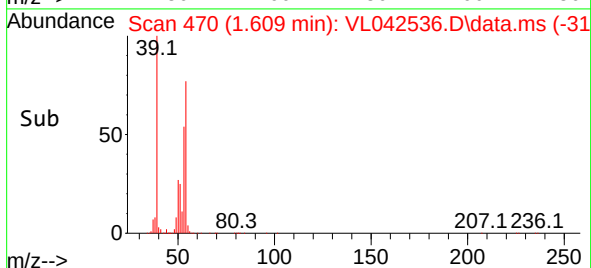
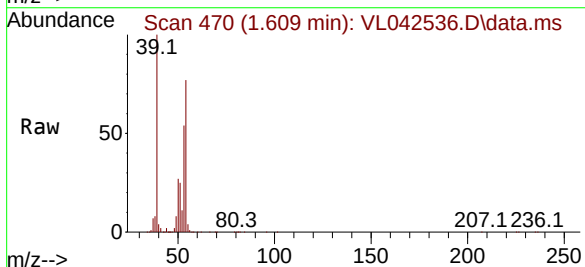
Manual Integrations
APPROVED

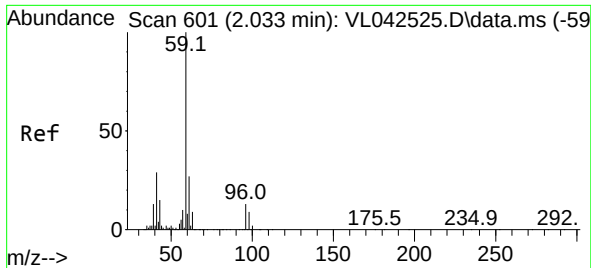
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#16
1,3-Butadiene
Concen: 8.972 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.007 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

Tgt Ion: 39 Resp: 76085
Ion Ratio Lower Upper
39 100
54 69.8 57.8 86.6





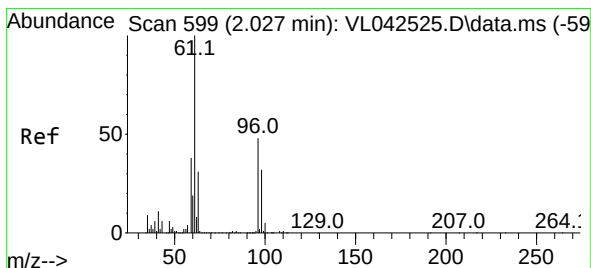
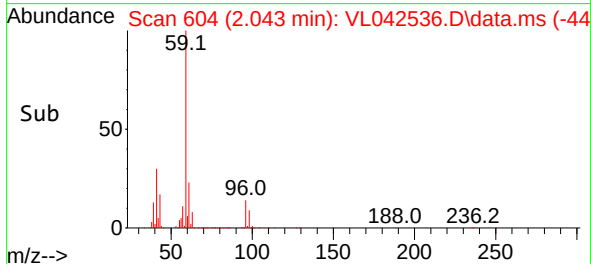
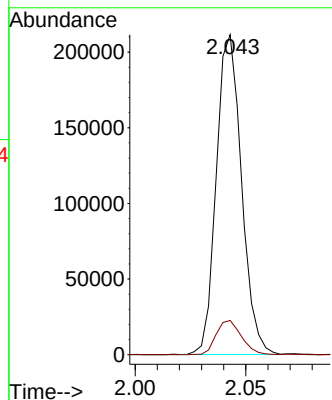
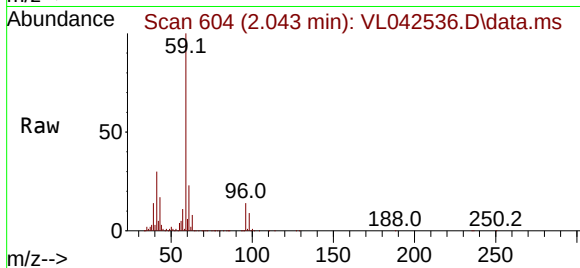
#17
tert-Butyl alcohol
Concen: 9.620 ppbv
RT: 2.043 min Scan# 601
Delta R.T. 0.010 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 59 Resp: 167624
Ion Ratio Lower Upper
59 100
57 10.8 8.2 12.4

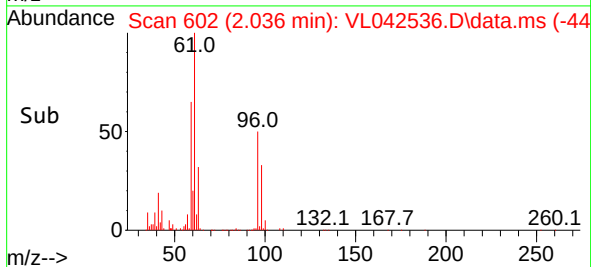
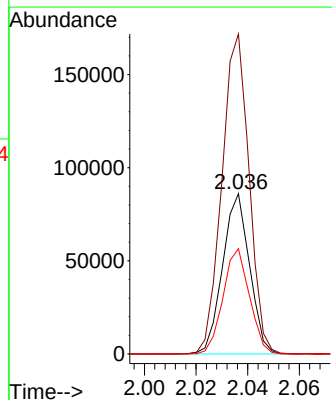
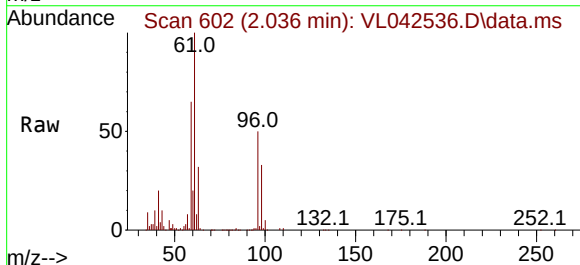
Manual Integrations
APPROVED

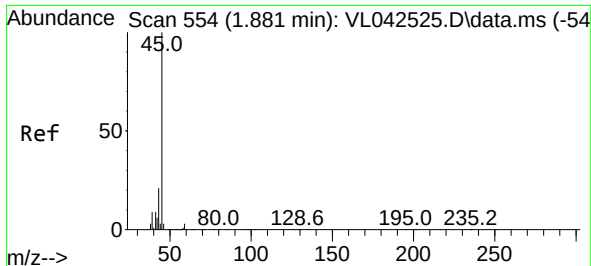
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#18
1,1-Dichloroethene
Concen: 9.607 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.010 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

Tgt Ion: 96 Resp: 62337
Ion Ratio Lower Upper
96 100
61 199.5 165.0 247.4
98 65.7 52.6 79.0





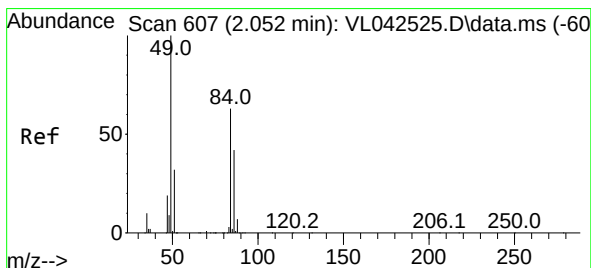
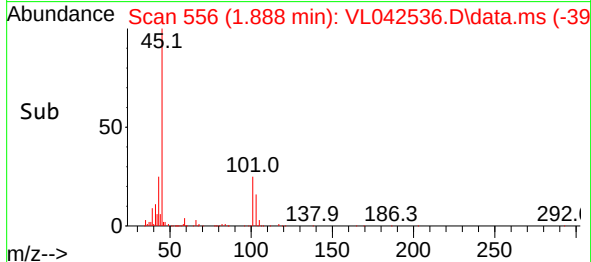
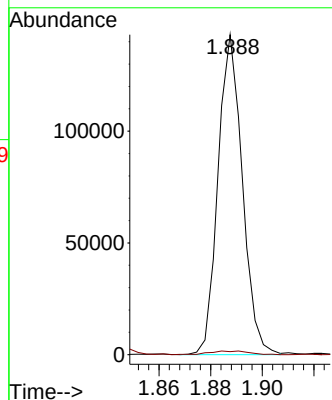
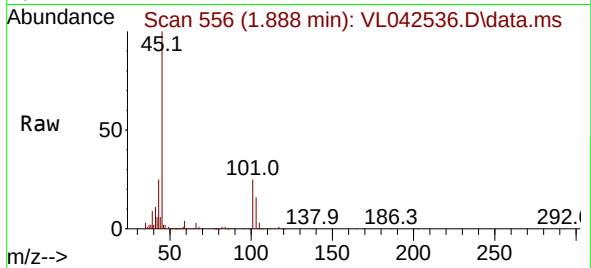
#19
Isopropyl Alcohol
Concen: 9.138 ppbv
RT: 1.888 min Scan# 511
Delta R.T. 0.007 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 45 Resp: 93610
Ion Ratio Lower Upper
45 100
58 2.0 1.5 2.3

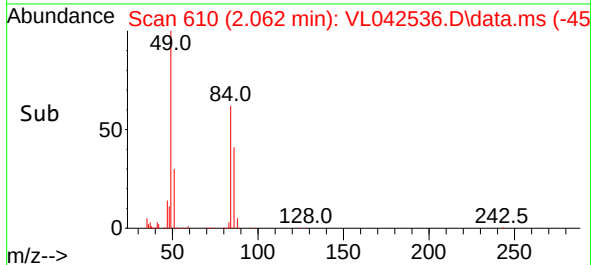
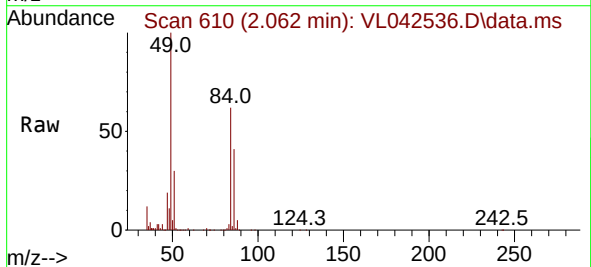
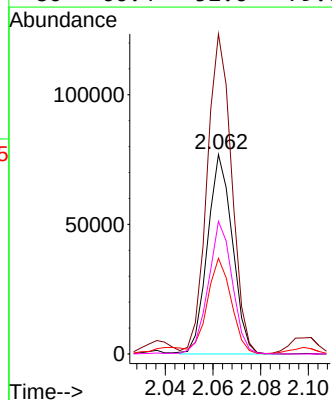
Manual Integrations
APPROVED

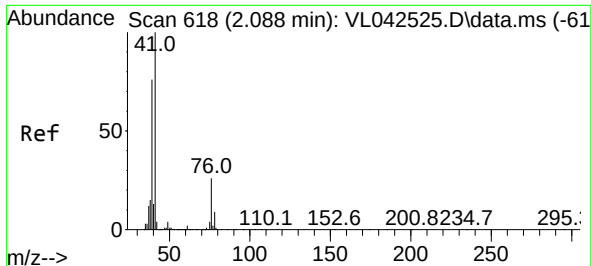
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#20
Methylene Chloride
Concen: 8.523 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.010 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

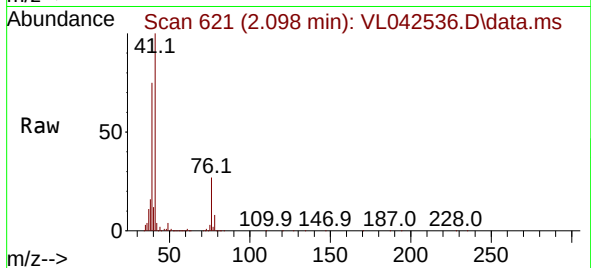
Tgt Ion: 84 Resp: 55969
Ion Ratio Lower Upper
84 100
49 158.8 128.2 192.4
51 47.2 41.7 62.5
86 66.4 52.6 79.0





#21
 Allyl Chloride
 Concen: 9.609 ppbv
 RT: 2.098 min Scan# 618
 Delta R.T. 0.010 min
 Lab File: VL042536.D
 Acq: 14 May 2025 10:23

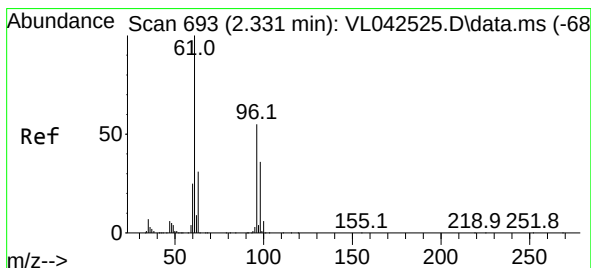
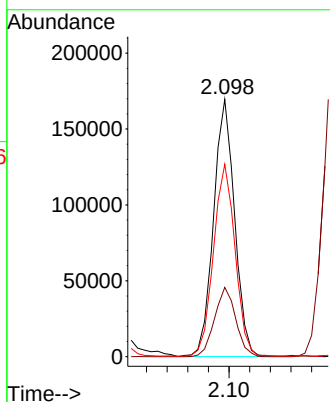
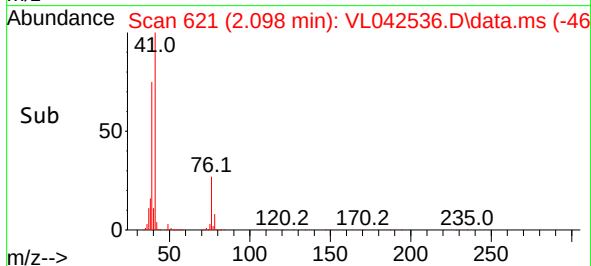
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



Tgt Ion: 41 Resp: 119972
 Ion Ratio Lower Upper
 41 100
 76 27.2 22.0 33.0
 39 76.8 59.5 89.3

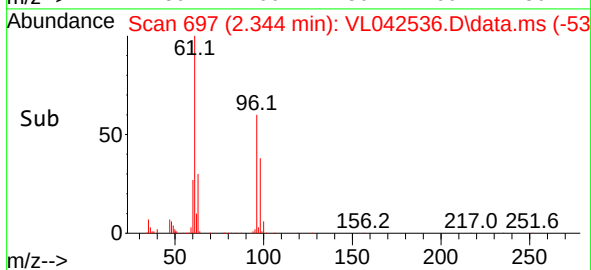
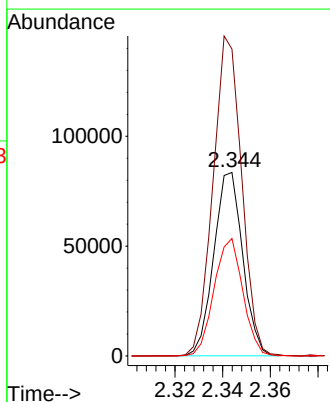
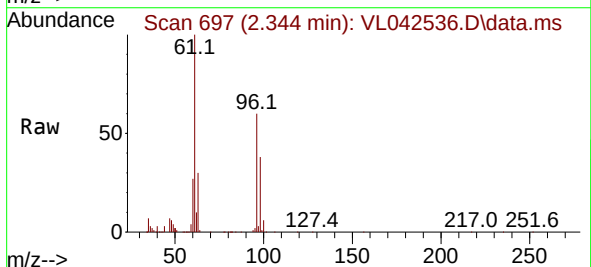
Manual Integrations
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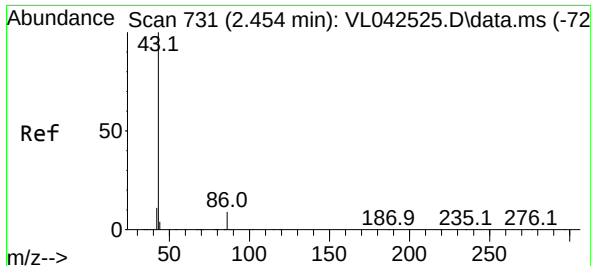
Reviewed By :Semsettin Yesilyurt 05/15/2025
 Supervised By :Mahesh Dadoda 05/15/2025



#22
 trans-1,2-Dichloroethene
 Concen: 9.270 ppbv
 RT: 2.344 min Scan# 697
 Delta R.T. 0.013 min
 Lab File: VL042536.D
 Acq: 14 May 2025 10:23

Tgt Ion: 96 Resp: 70366
 Ion Ratio Lower Upper
 96 100
 61 167.2 145.9 218.9
 98 63.9 52.2 78.4





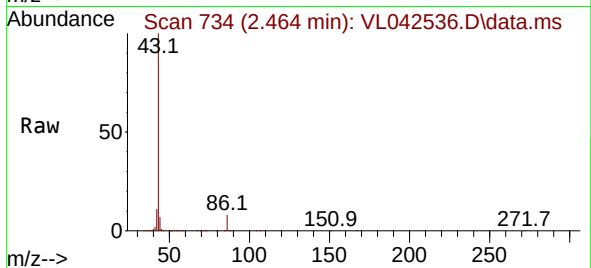
#23
 Vinyl Acetate
 Concen: 9.852 ppbv
 RT: 2.464 min Scan# 718
 Delta R.T. 0.010 min
 Lab File: VL042536.D
 Acq: 14 May 2025 10:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

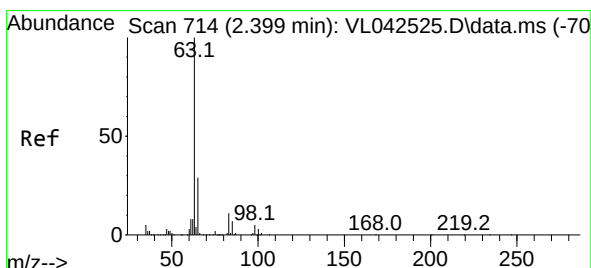
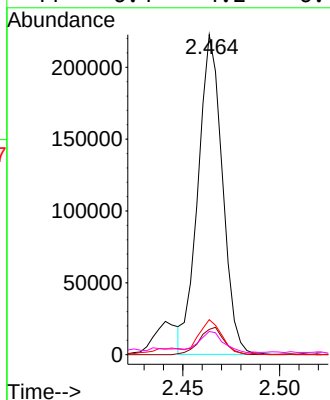
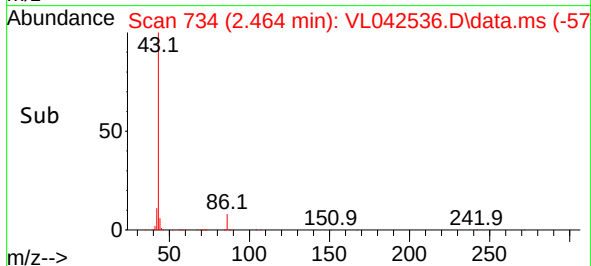


Tgt Ion: 43 Resp: 194509
 Ion Ratio Lower Upper
 43 100
 86 7.9 6.8 10.2
 42 10.9 8.8 13.2
 44 6.4 4.2 6.4#

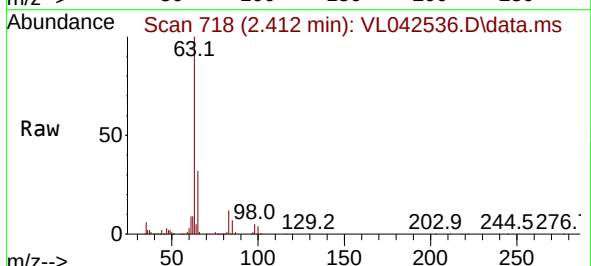
Manual Integrations

APPROVED

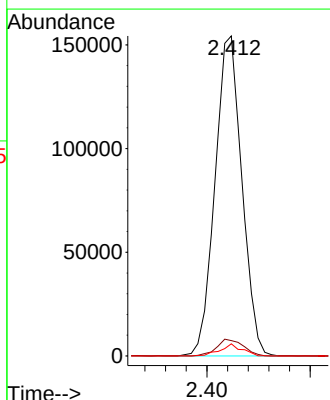
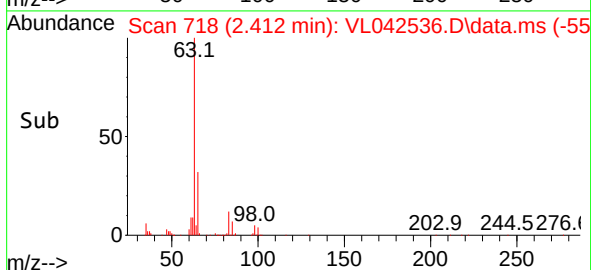
Reviewed By :Semsettin Yesilyurt 05/15/2025
 Supervised By :Mahesh Dadoda 05/15/2025

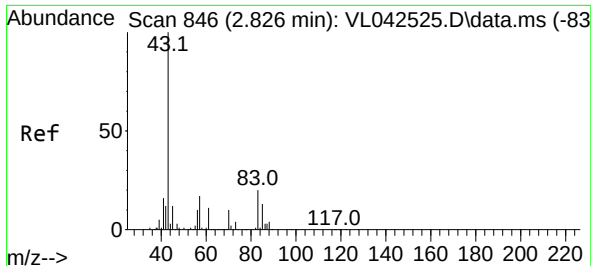


#24
 1,1-Dichloroethane
 Concen: 9.491 ppbv
 RT: 2.412 min Scan# 718
 Delta R.T. 0.013 min
 Lab File: VL042536.D
 Acq: 14 May 2025 10:23



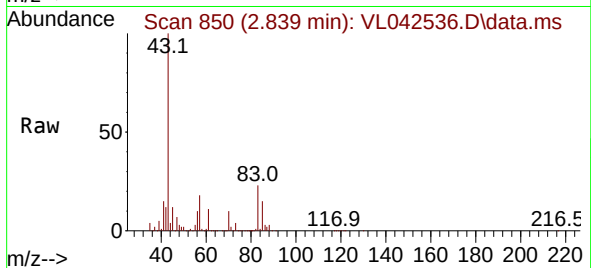
Tgt Ion: 63 Resp: 139379
 Ion Ratio Lower Upper
 63 100
 98 4.8 2.6 8.0
 100 3.8 1.4 4.2





#25
Ethyl Acetate
Concen: 9.689 ppbv
RT: 2.839 min Scan# 846
Delta R.T. 0.013 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

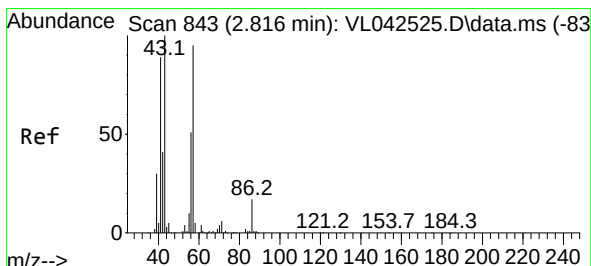
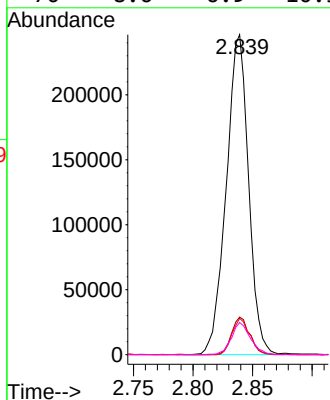
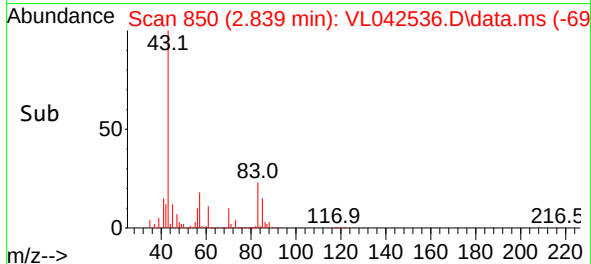
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



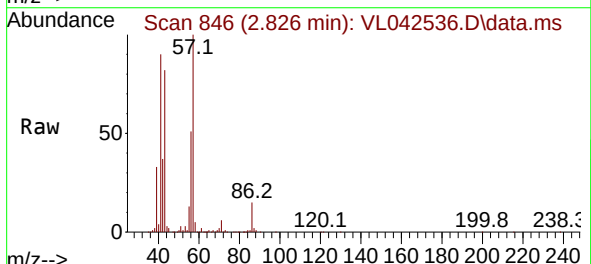
Tgt Ion: 43 Resp: 320825
Ion Ratio Lower Upper
43 100
45 9.6 7.9 11.9
61 9.1 7.1 10.7
70 8.6 6.9 10.3

Manual Integrations
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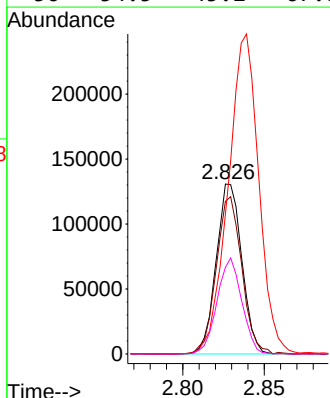
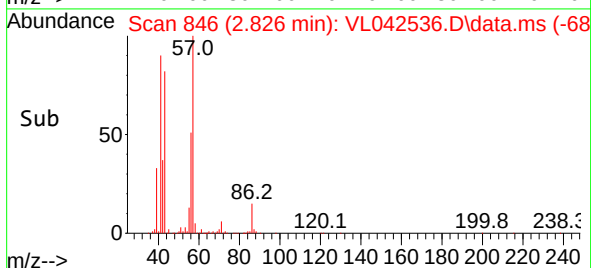
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025

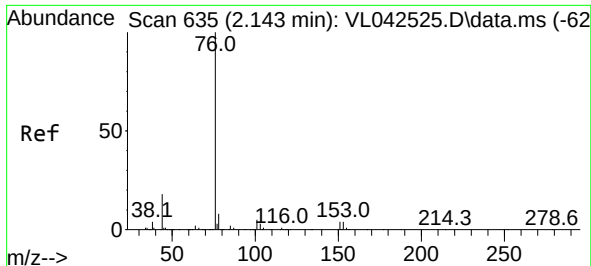


#26
Hexane
Concen: 10.498 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.010 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23



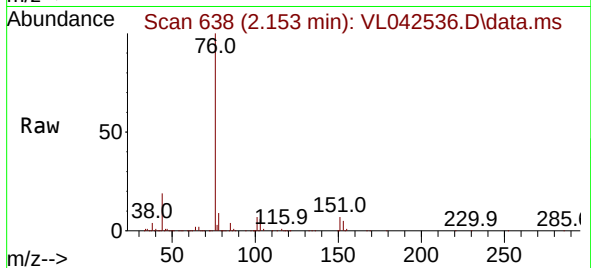
Tgt Ion: 57 Resp: 142712
Ion Ratio Lower Upper
57 100
41 92.6 76.1 114.1
43 225.0 188.9 283.3
56 54.5 45.2 67.8





#27
Carbon Disulfide
Concen: 9.889 ppbv
RT: 2.153 min Scan# 61
Delta R.T. 0.010 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

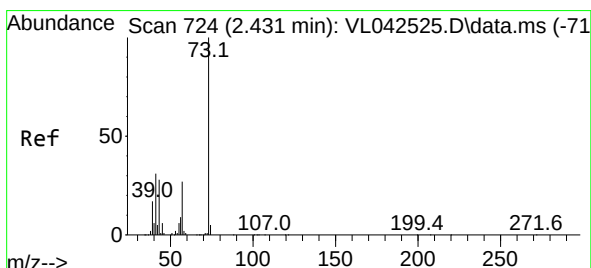
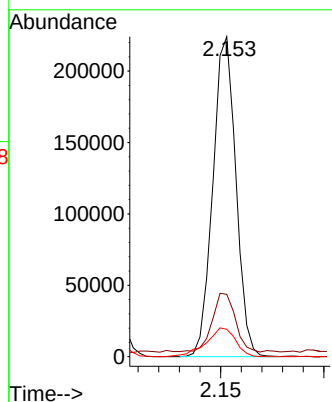
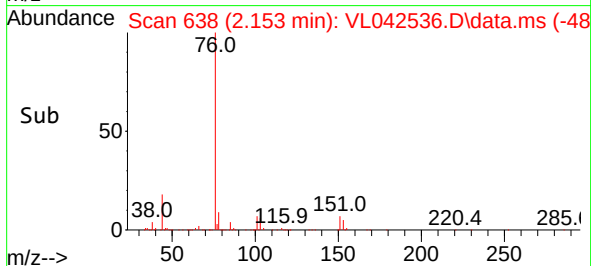
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



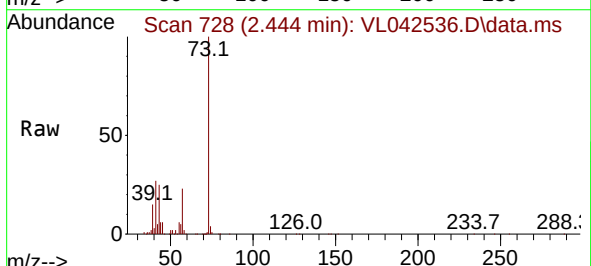
Tgt Ion: 76 Resp: 173540
Ion Ratio Lower Upper
76 100
44 20.0 17.1 25.7
78 11.5 8.6 12.8

Manual Integrations
APPROVED

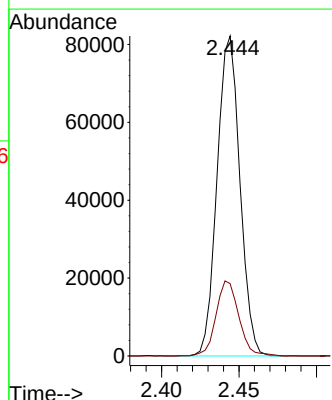
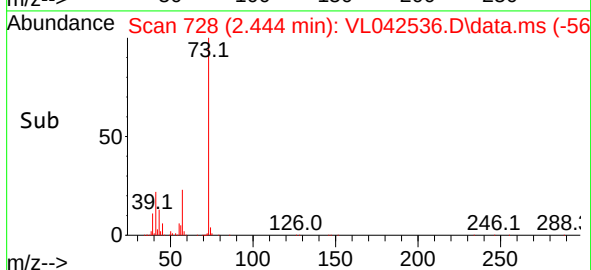
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025

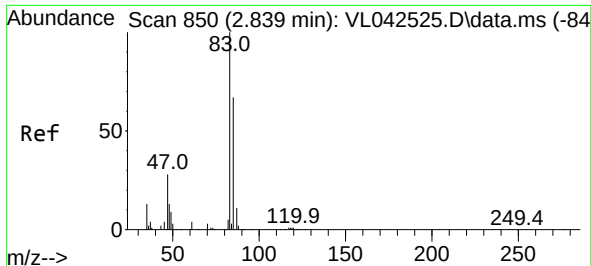


#28
Methyl tert-Butyl Ether
Concen: 11.156 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.013 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23



Tgt Ion: 73 Resp: 84256
Ion Ratio Lower Upper
73 100
57 23.4 20.3 30.5





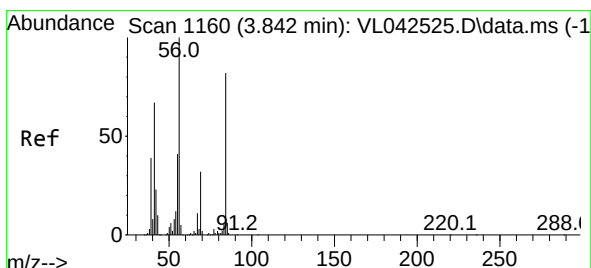
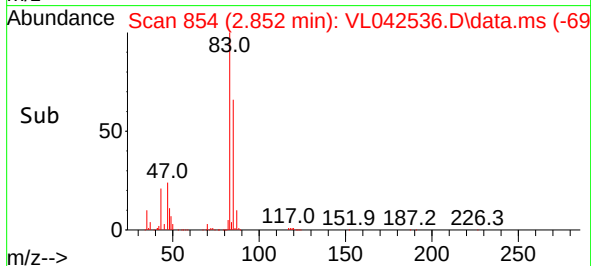
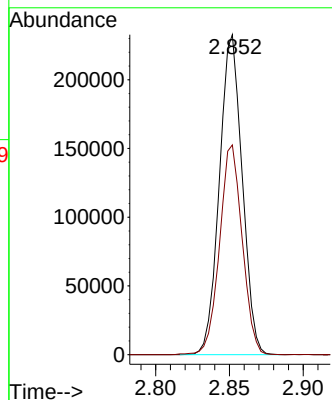
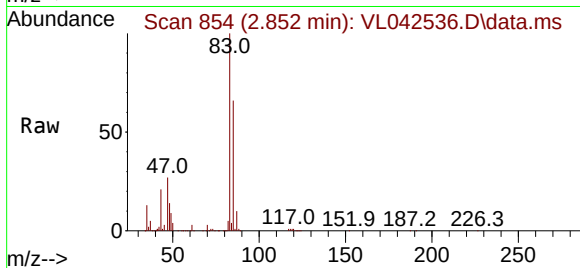
#29
Chloroform
Concen: 8.880 ppbv
RT: 2.852 min Scan# 850
Delta R.T. 0.013 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 83 Resp: 25037
Ion Ratio Lower Upper
83 100
85 65.5 53.5 80.3

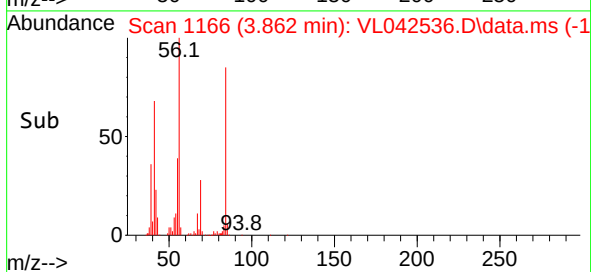
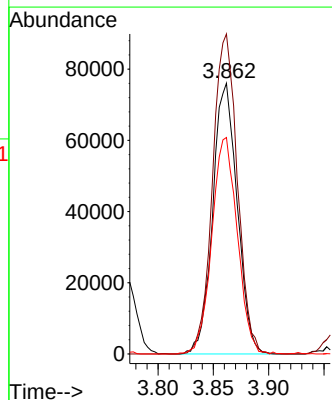
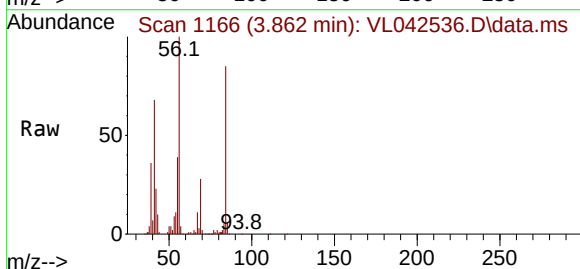
Manual Integrations
APPROVED

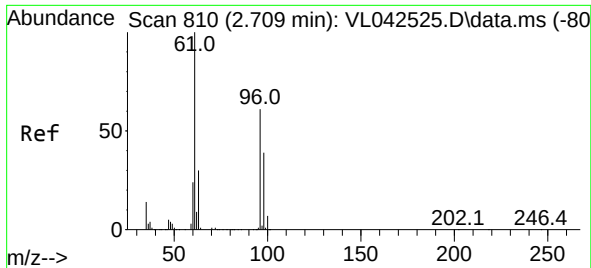
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#30
Cyclohexane
Concen: 10.502 ppbv
RT: 3.862 min Scan# 1166
Delta R.T. 0.020 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

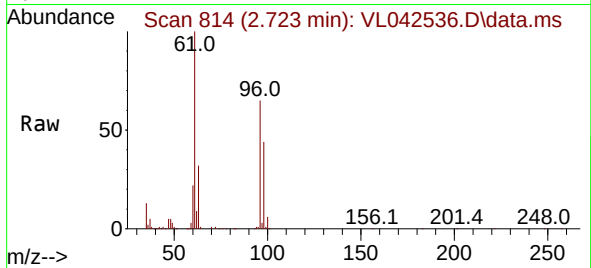
Tgt Ion: 84 Resp: 117210
Ion Ratio Lower Upper
84 100
56 119.1 97.1 145.7
41 83.0 66.6 99.8





#31
 cis-1,2-Dichloroethene
 Concen: 9.383 ppbv
 RT: 2.723 min Scan# 810
 Delta R.T. 0.013 min
 Lab File: VL042536.D
 Acq: 14 May 2025 10:23

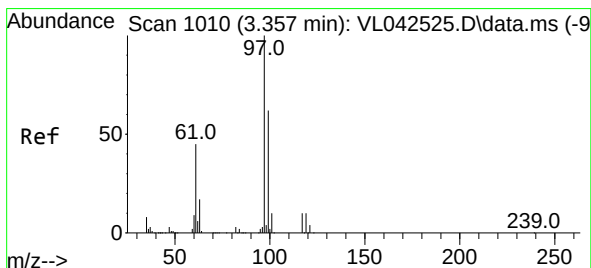
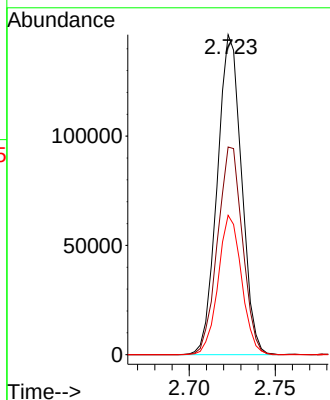
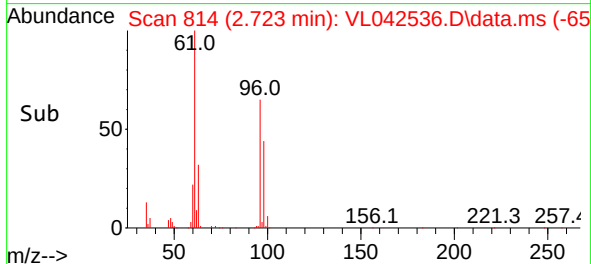
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



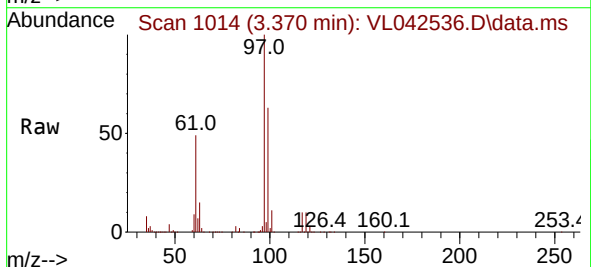
Tgt Ion: 61 Resp: 144036
 Ion Ratio Lower Upper
 61 100
 96 64.9 48.9 73.3
 98 43.6 31.4 47.2

Manual Integrations
 APPROVED

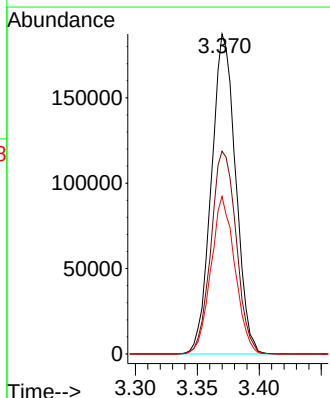
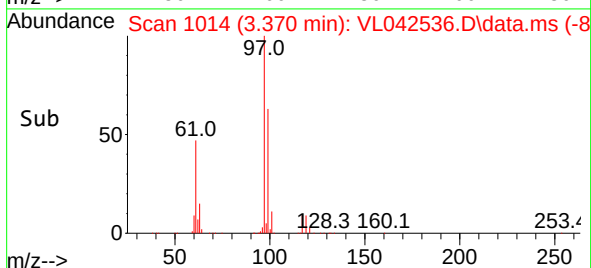
Reviewed By :Semsettin Yesilyurt 05/15/2025
 Supervised By :Mahesh Dadoda 05/15/2025

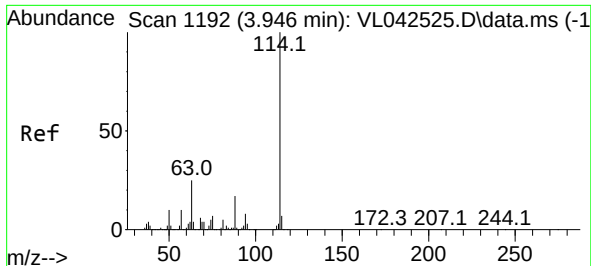


#32
 1,1,1-Trichloroethane
 Concen: 8.787 ppbv
 RT: 3.370 min Scan# 1014
 Delta R.T. 0.013 min
 Lab File: VL042536.D
 Acq: 14 May 2025 10:23



Tgt Ion: 97 Resp: 255645
 Ion Ratio Lower Upper
 97 100
 99 65.9 50.1 75.1
 61 48.7 38.2 57.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. 0.016 min

Lab File: VL042536.D

Acq: 14 May 2025 10:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

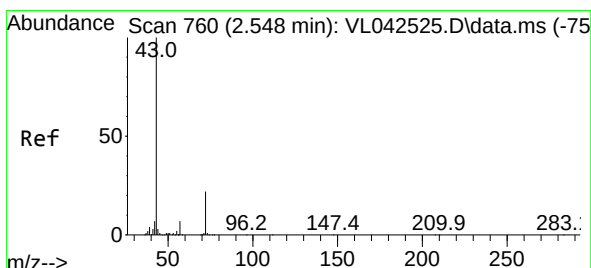
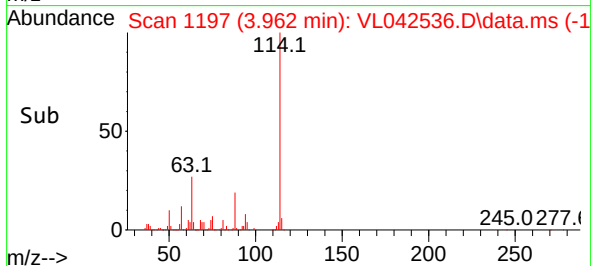
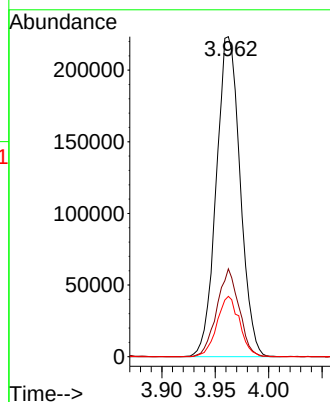
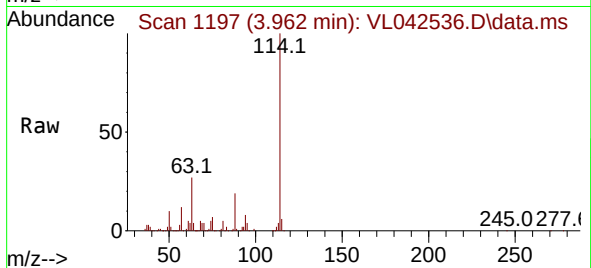
Tgt Ion:114 Resp: 34688

Ion	Ratio	Lower	Upper
114	100		
63	25.6	20.4	30.6
88	18.0	14.5	21.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#34

2-Butanone

Concen: 8.664 ppbv

RT: 2.557 min Scan# 763

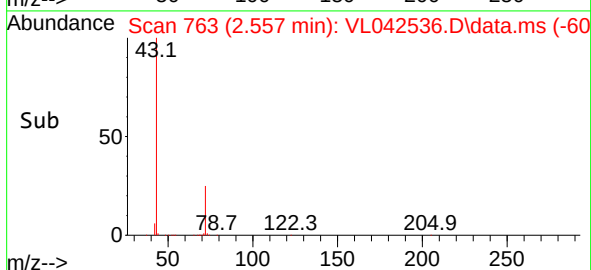
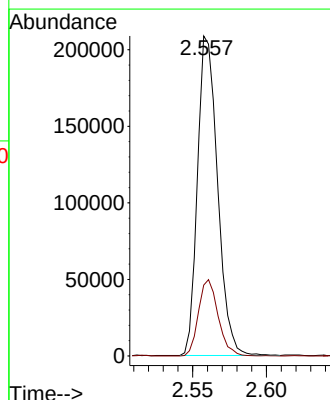
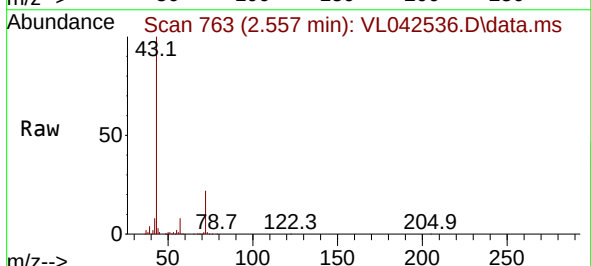
Delta R.T. 0.010 min

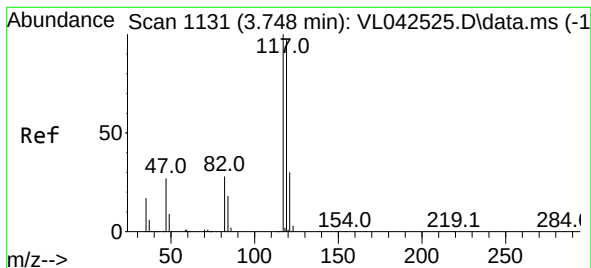
Lab File: VL042536.D

Acq: 14 May 2025 10:23

Tgt Ion: 43 Resp: 198101

Ion	Ratio	Lower	Upper
43	100		
72	23.5	18.7	28.1





#35

Carbon Tetrachloride

Concen: 8.947 ppbv

RT: 3.765 min Scan# 1131

Delta R.T. 0.016 min

Lab File: VL042536.D

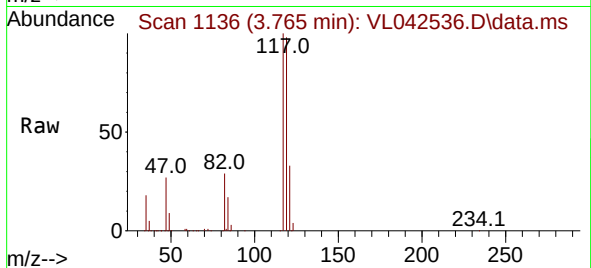
Acq: 14 May 2025 10:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010



Tgt Ion: 117 Resp: 279020

Ion Ratio Lower Upper

117 100

119 98.4 77.7 116.5

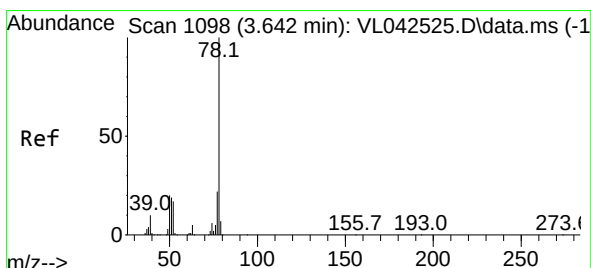
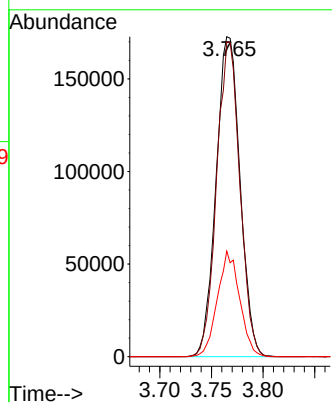
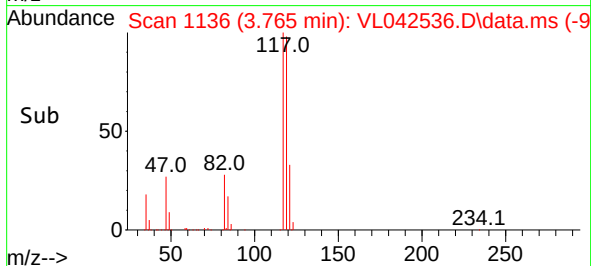
121 33.0 24.0 36.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/15/2025

Supervised By :Mahesh Dadoda 05/15/2025



#36

Benzene

Concen: 9.521 ppbv

RT: 3.661 min Scan# 1104

Delta R.T. 0.020 min

Lab File: VL042536.D

Acq: 14 May 2025 10:23

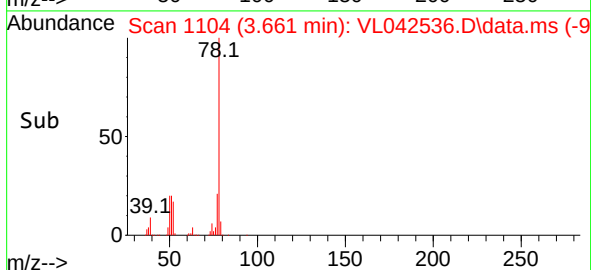
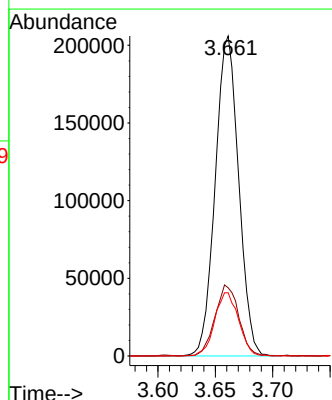
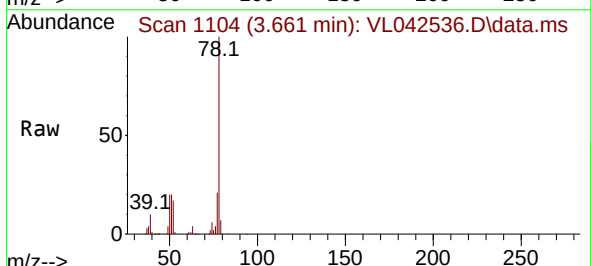
Tgt Ion: 78 Resp: 292705

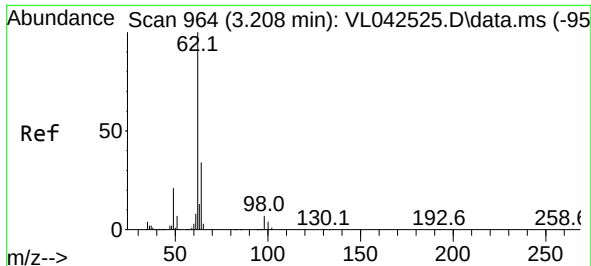
Ion Ratio Lower Upper

78 100

77 21.3 17.4 26.2

50 19.7 16.3 24.5





#37

1,2-Dichloroethane

Concen: 8.885 ppbv

RT: 3.221 min Scan# 90

Delta R.T. 0.013 min

Lab File: VL042536.D

Acq: 14 May 2025 10:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 62 Resp: 19484

Ion Ratio Lower Upper

62 100

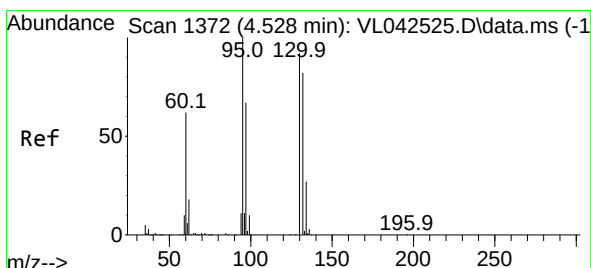
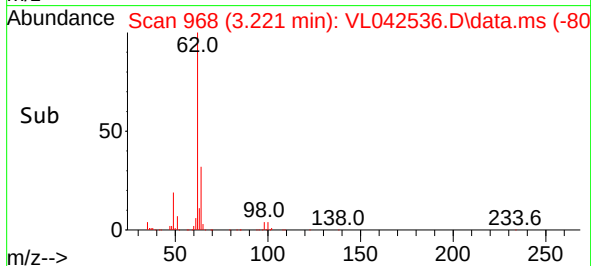
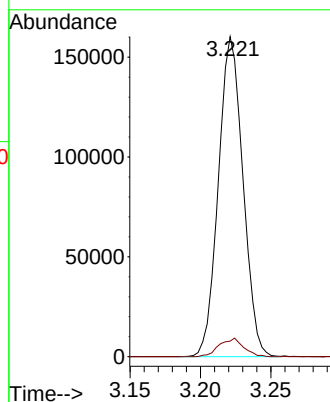
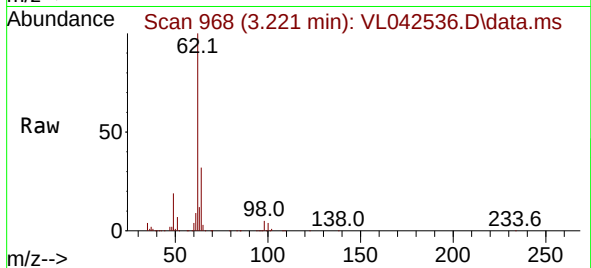
98 5.7 5.0 7.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/15/2025

Supervised By :Mahesh Dadoda 05/15/2025



#38

Trichloroethene

Concen: 9.092 ppbv

RT: 4.551 min Scan# 1379

Delta R.T. 0.023 min

Lab File: VL042536.D

Acq: 14 May 2025 10:23

Tgt Ion:130 Resp: 121523

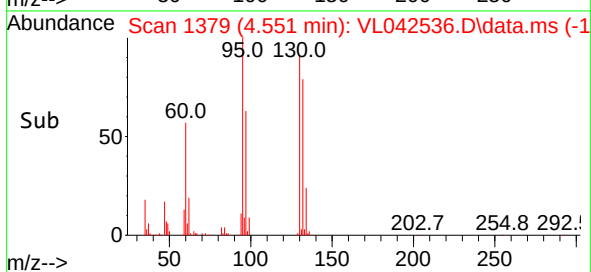
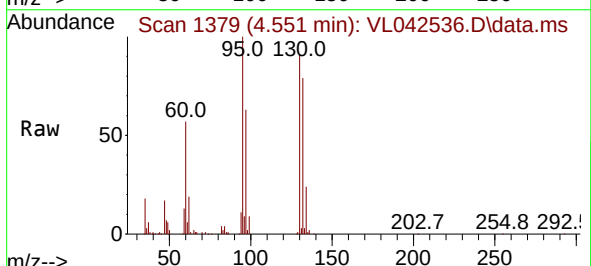
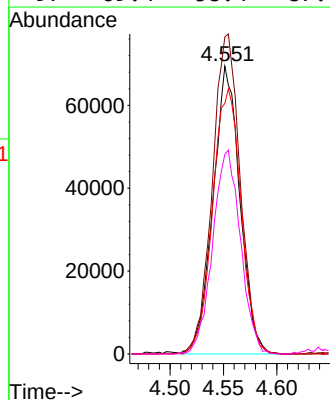
Ion Ratio Lower Upper

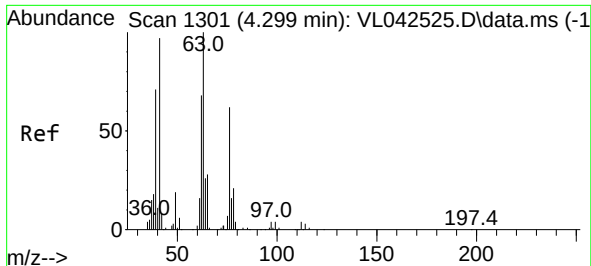
130 100

95 110.0 87.0 130.4

132 87.1 71.1 106.7

97 69.4 58.4 87.6





#39

1,2-Dichloropropane

Concen: 8.967 ppbv

RT: 4.318 min Scan# 1307

Delta R.T. 0.020 min

Lab File: VL042536.D

Acq: 14 May 2025 10:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 63 Resp: 10268

Ion Ratio Lower Upper

63 100

41 89.5 77.5 116.3

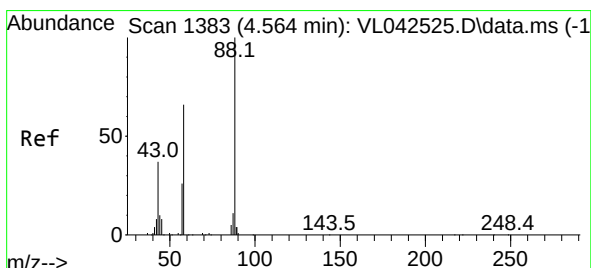
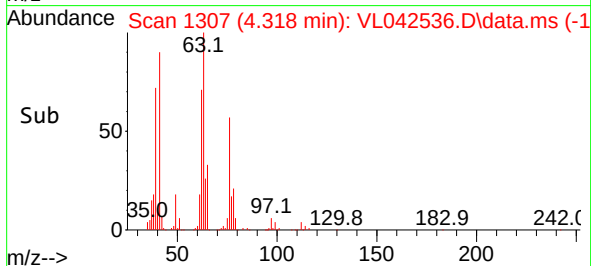
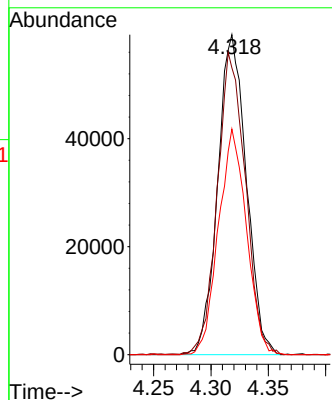
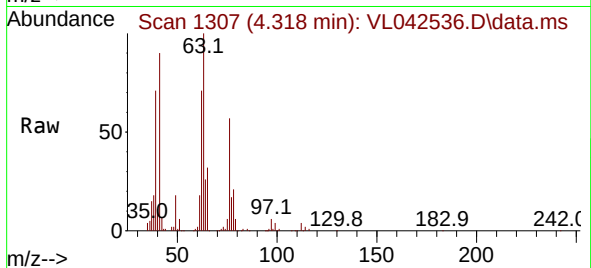
62 70.5 54.6 82.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/15/2025

Supervised By :Mahesh Dadoda 05/15/2025



#40

1,4-Dioxane

Concen: 9.810 ppbv

RT: 4.584 min Scan# 1389

Delta R.T. 0.020 min

Lab File: VL042536.D

Acq: 14 May 2025 10:23

Tgt Ion: 88 Resp: 45600

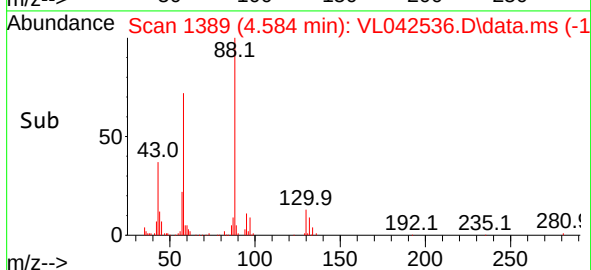
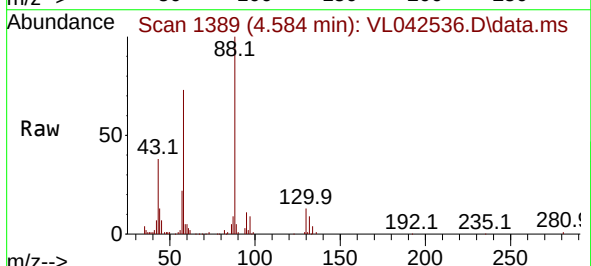
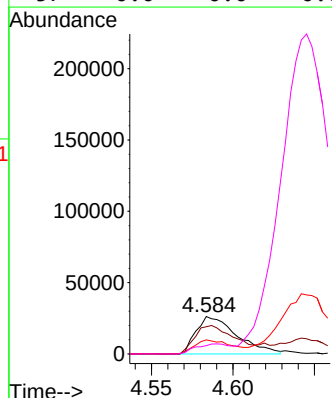
Ion Ratio Lower Upper

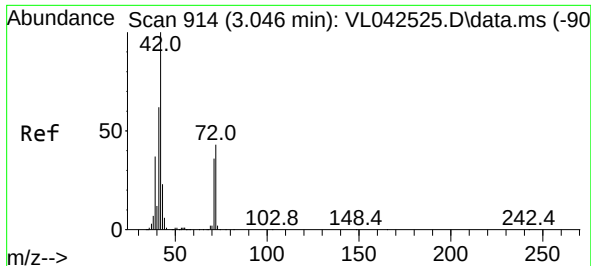
88 100

58 85.2 58.2 87.2

43 34.2 27.9 41.9

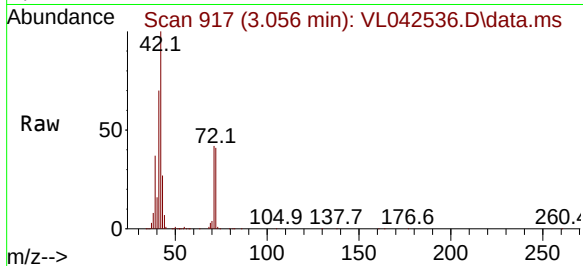
57 0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 10.412 ppbv
RT: 3.056 min Scan# 914
Delta R.T. 0.010 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

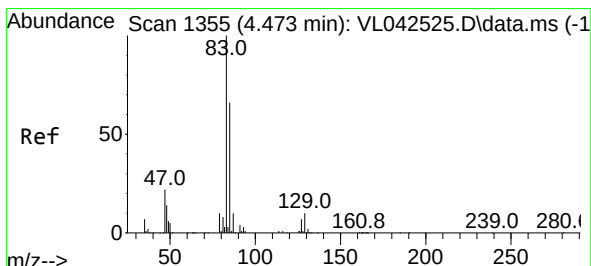
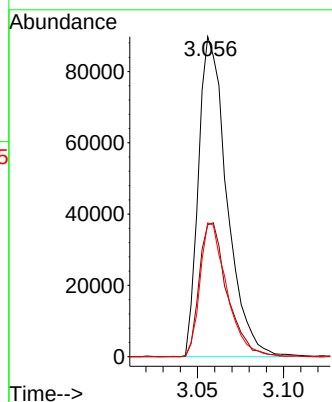
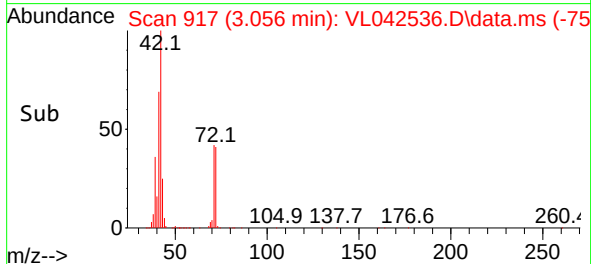
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



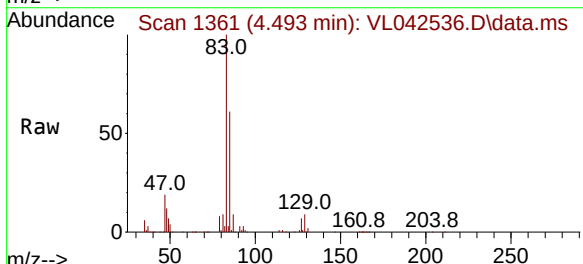
Tgt Ion: 42 Resp: 10305
Ion Ratio Lower Upper
42 100
72 41.0 32.7 49.1
71 39.6 30.4 45.6

Manual Integrations
APPROVED

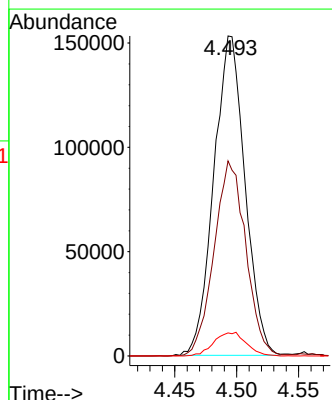
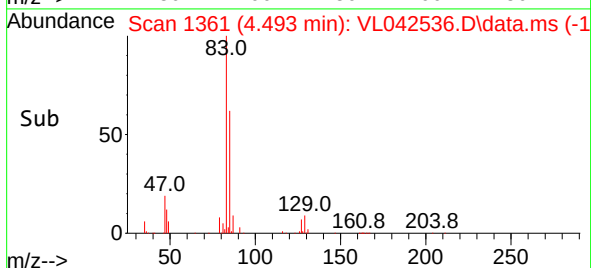
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025

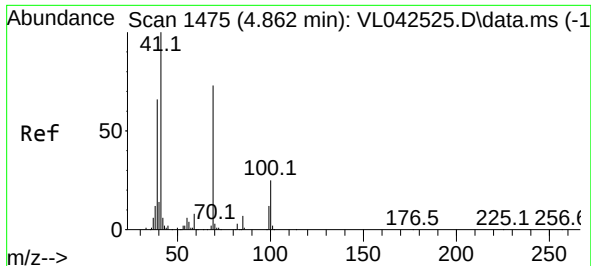


#42
Bromodichloromethane
Concen: 9.183 ppbv
RT: 4.493 min Scan# 1361
Delta R.T. 0.020 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23



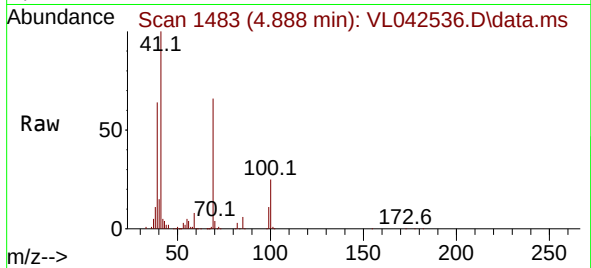
Tgt Ion: 83 Resp: 268737
Ion Ratio Lower Upper
83 100
85 61.0 52.6 79.0
127 7.2 6.0 9.0





#43
Methyl Methacrylate
Concen: 10.440 ppbv m
RT: 4.888 min Scan# 1475
Delta R.T. 0.026 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

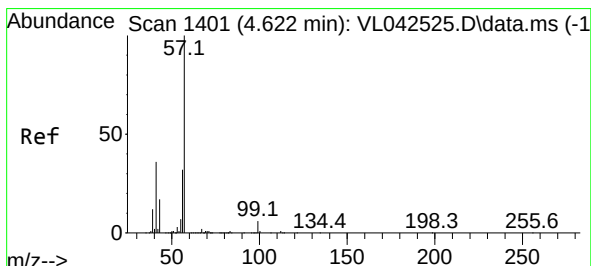
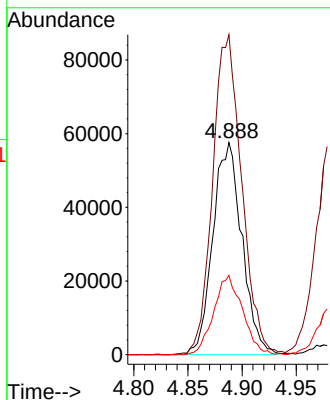
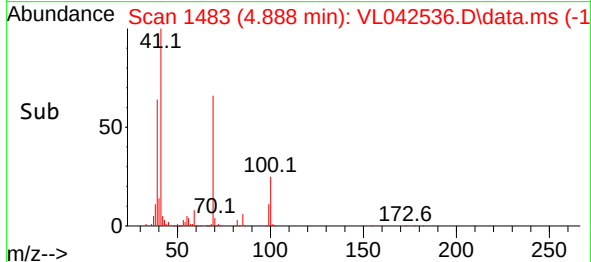
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion: 69 Resp: 10748
Ion Ratio Lower Upper
69 100
41 150.6 119.9 179.9
100 37.0 28.4 42.6

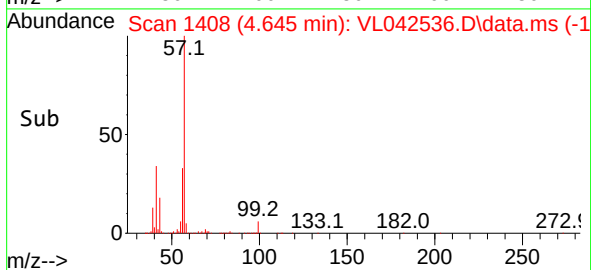
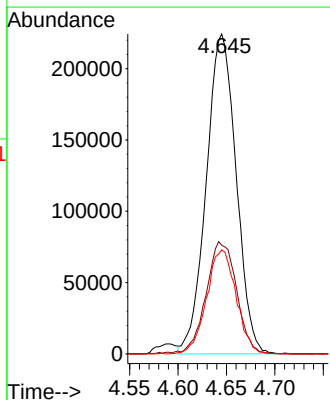
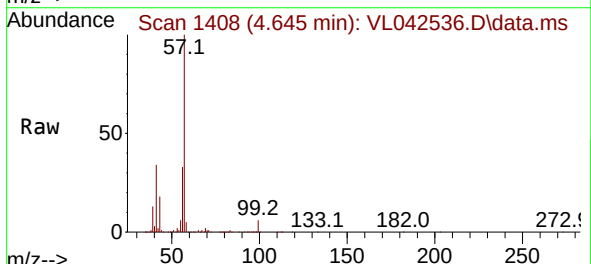
Manual Integrations
APPROVED

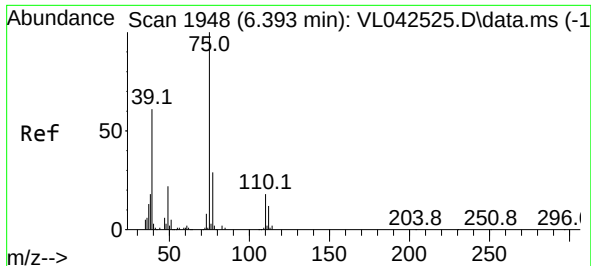
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#44
2,2,4-Trimethylpentane
Concen: 9.900 ppbv
RT: 4.645 min Scan# 1408
Delta R.T. 0.023 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

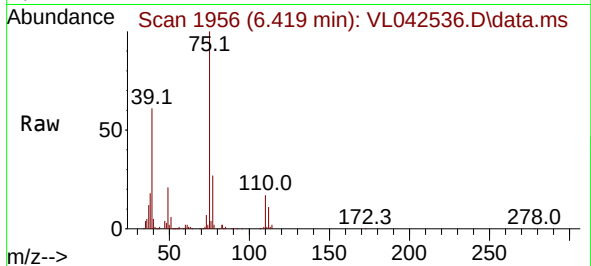
Tgt Ion: 57 Resp: 482249
Ion Ratio Lower Upper
57 100
41 36.2 28.3 42.5
56 32.2 25.9 38.9





#45
t-1,3-Dichloropropene
Concen: 10.271 ppbv
RT: 6.419 min Scan# 1948
Delta R.T. 0.026 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

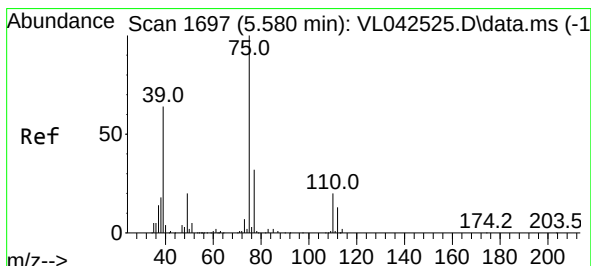
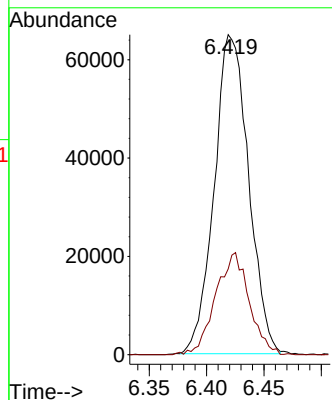
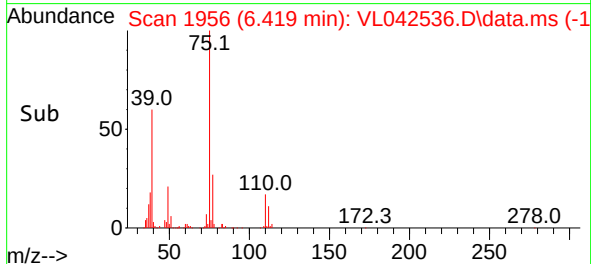
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion: 75 Resp: 13510
Ion Ratio Lower Upper
75 100
77 26.8 23.3 34.9

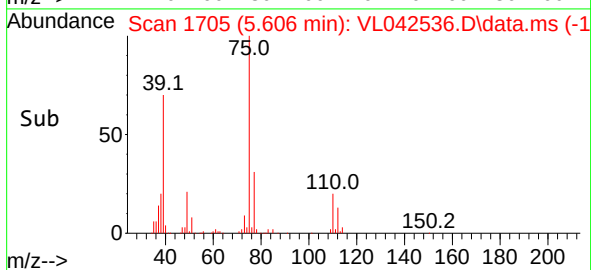
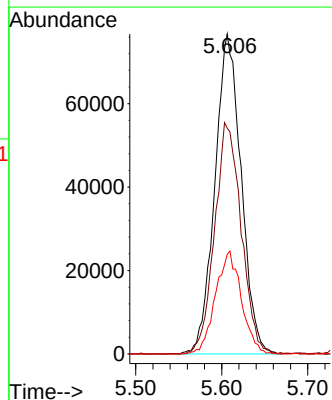
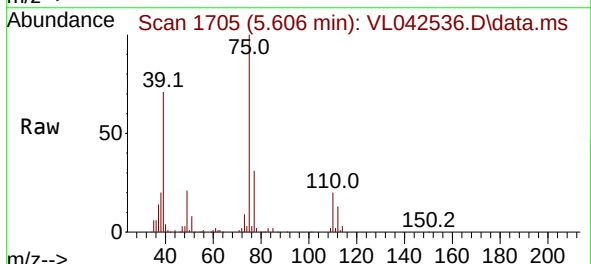
Manual Integrations
APPROVED

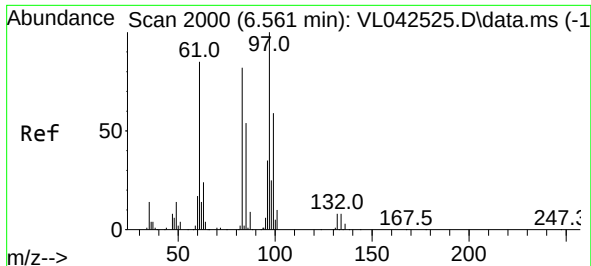
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#46
cis-1,3-Dichloropropene
Concen: 10.268 ppbv
RT: 5.606 min Scan# 1705
Delta R.T. 0.026 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

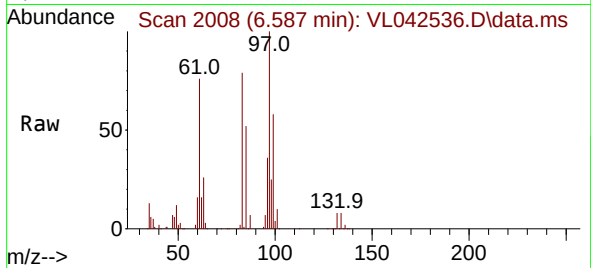
Tgt Ion: 75 Resp: 162473
Ion Ratio Lower Upper
75 100
39 70.5 51.2 76.8
77 31.2 25.4 38.0





#47
1,1,2-Trichloroethane
Concen: 8.999 ppbv
RT: 6.587 min Scan# 2008
Delta R.T. 0.026 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

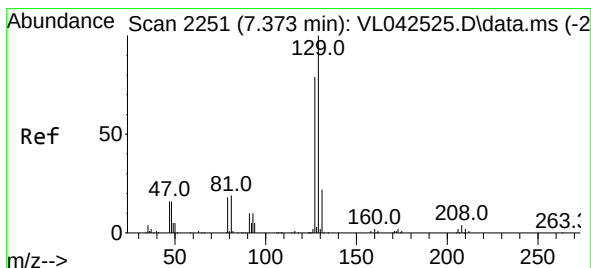
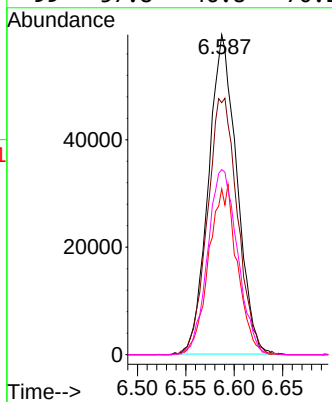
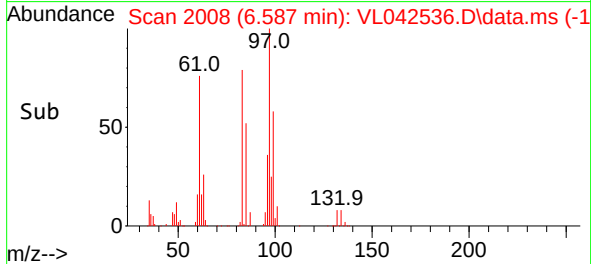
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



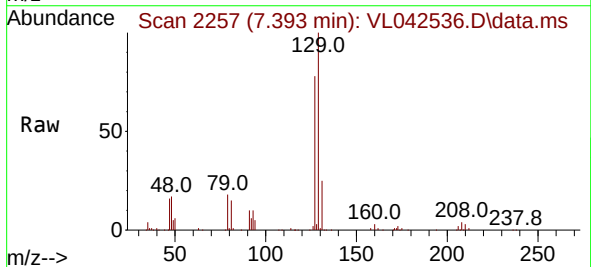
Tgt Ion	Ratio	Lower	Upper
97	100		
83	78.6	66.0	99.0
85	51.9	42.8	64.2
99	57.8	46.8	70.2

Manual Integrations
APPROVED

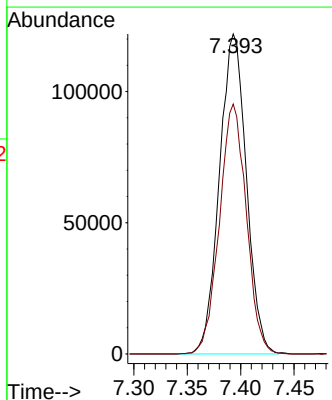
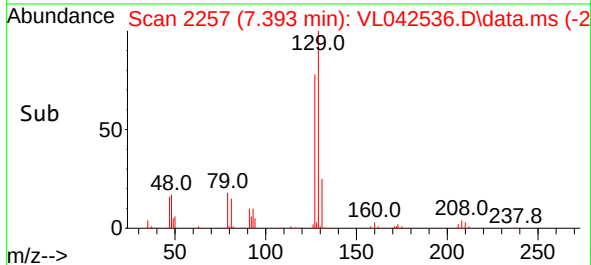
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025

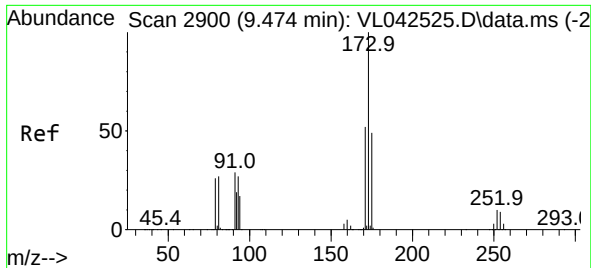


#48
Dibromochloromethane
Concen: 9.523 ppbv
RT: 7.393 min Scan# 2257
Delta R.T. 0.020 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23



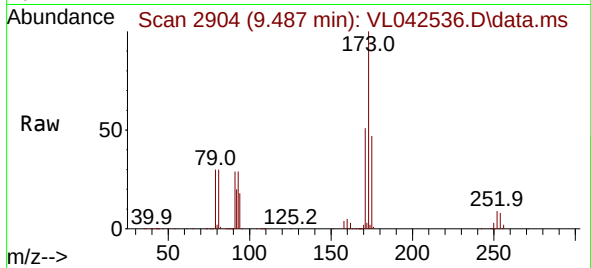
Tgt Ion	Ratio	Lower	Upper
129	100		
127	77.8	39.6	118.8





#49
Bromoform
Concen: 9.790 ppbv
RT: 9.487 min Scan# 2900
Delta R.T. 0.013 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

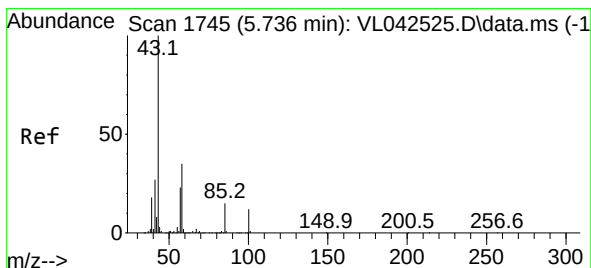
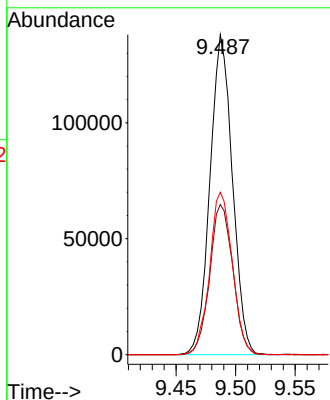
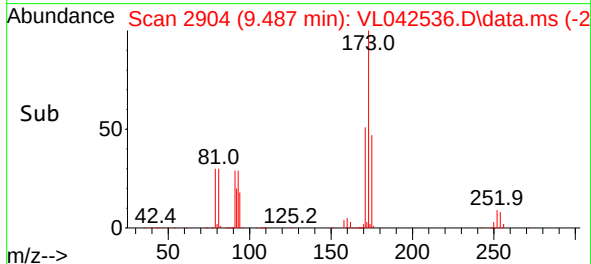
Instrument : MSVOA_L
ClientSampleId : VSTDCCC010



Tgt Ion:173 Resp: 180872
Ion Ratio Lower Upper
173 100
175 48.3 39.1 58.7
171 51.5 41.8 62.8

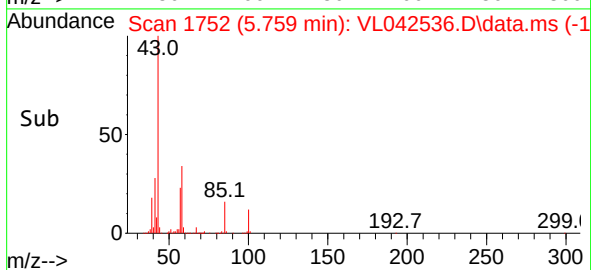
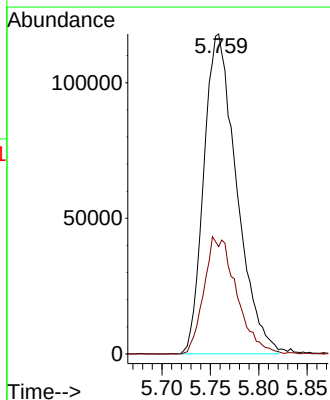
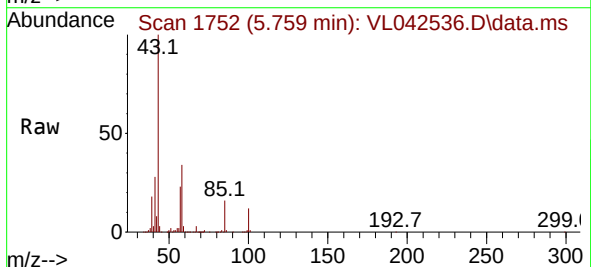
Manual Integrations
APPROVED

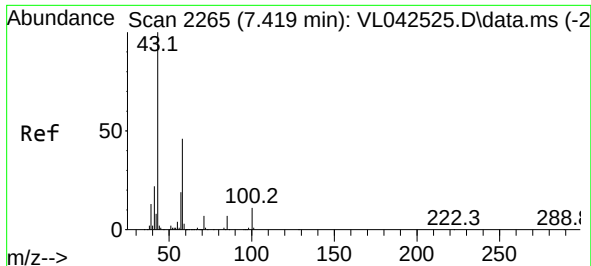
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#50
4-Methyl-2-Pentanone
Concen: 10.326 ppbv
RT: 5.759 min Scan# 1752
Delta R.T. 0.023 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

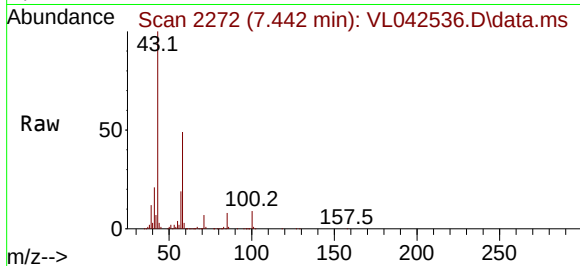
Tgt Ion: 43 Resp: 277297
Ion Ratio Lower Upper
43 100
58 36.5 28.6 42.8





#51
2-Hexanone
Concen: 11.360 ppbv
RT: 7.442 min Scan# 21
Delta R.T. 0.023 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

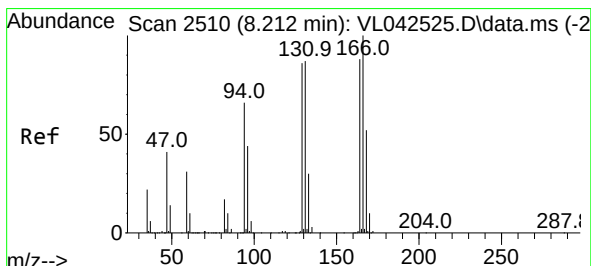
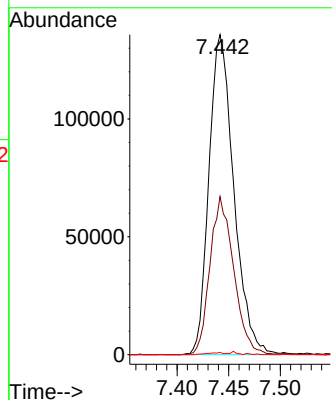
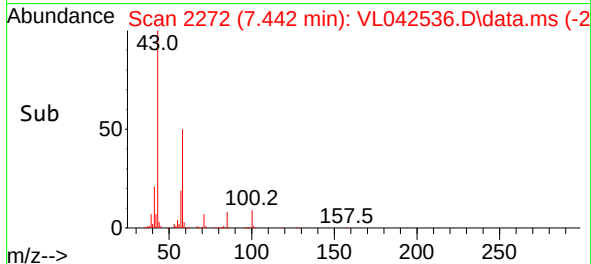
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



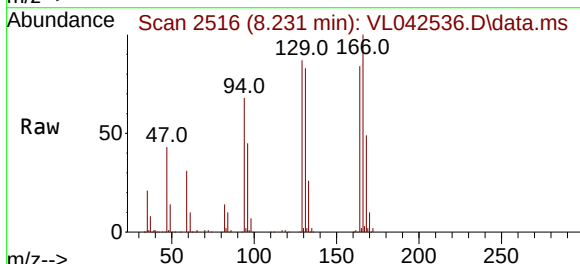
Tgt Ion: 43 Resp: 226925
Ion Ratio Lower Upper
43 100
58 47.4 37.5 56.3
98 0.8 0.9 1.3

Manual Integrations
APPROVED

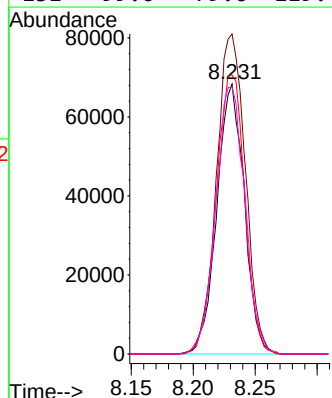
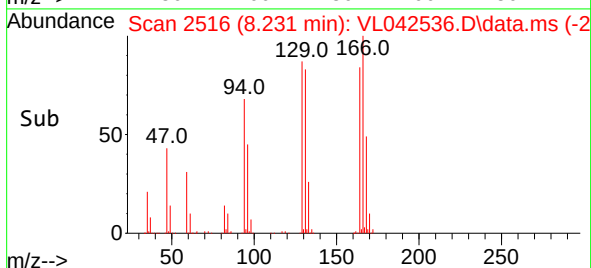
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025

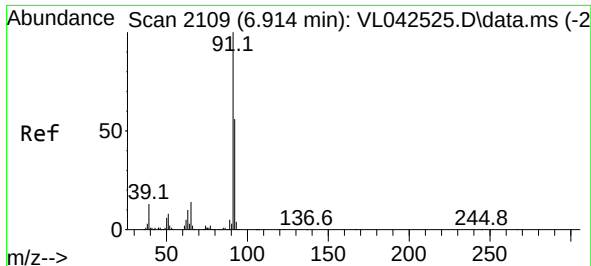


#52
Tetrachloroethene
Concen: 8.964 ppbv
RT: 8.231 min Scan# 2516
Delta R.T. 0.020 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23



Tgt Ion:164 Resp: 105432
Ion Ratio Lower Upper
164 100
166 118.6 91.3 136.9
129 103.4 78.9 118.3
131 99.0 79.6 119.4





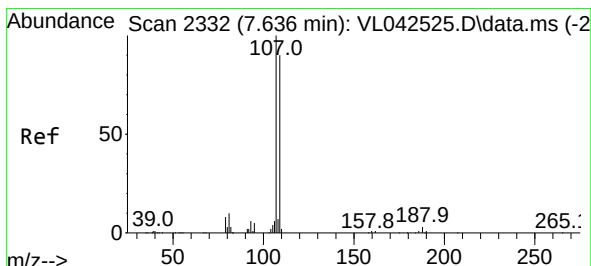
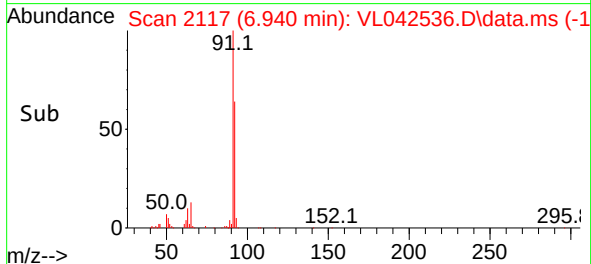
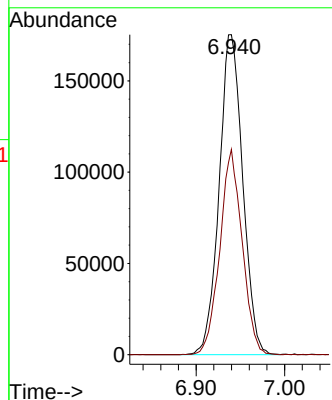
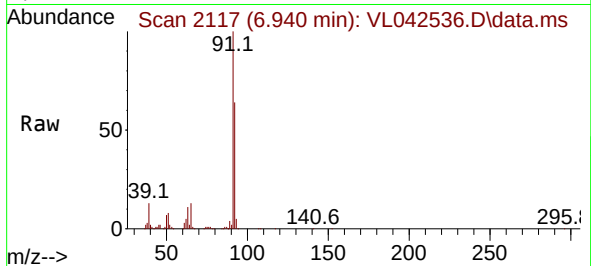
#53
Toluene
Concen: 10.761 ppbv
RT: 6.940 min Scan# 2109
Delta R.T. 0.026 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 91 Resp: 324628
Ion Ratio Lower Upper
91 100
92 60.7 47.8 71.6

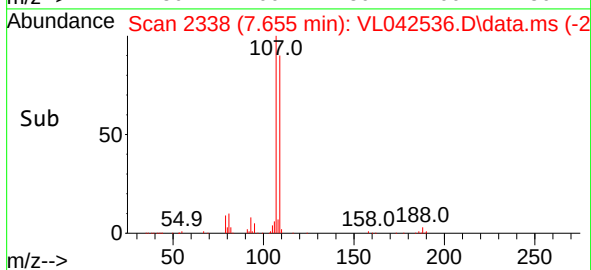
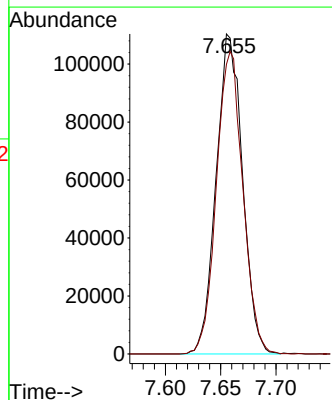
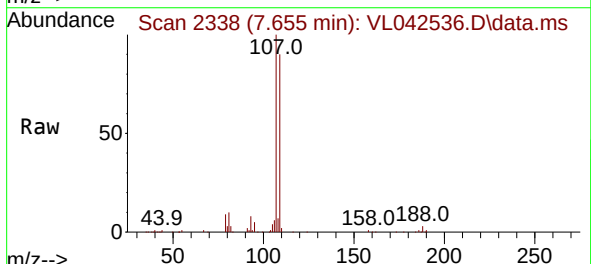
Manual Integrations
APPROVED

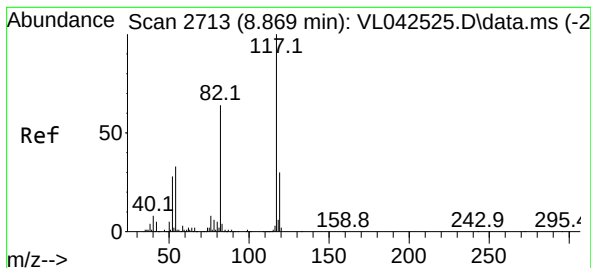
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#54
1,2-Dibromoethane
Concen: 9.275 ppbv
RT: 7.655 min Scan# 2338
Delta R.T. 0.020 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

Tgt Ion:107 Resp: 182645
Ion Ratio Lower Upper
107 100
109 90.5 72.2 108.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.885 min Scan# 2718

Delta R.T. 0.016 min

Lab File: VL042536.D

Acq: 14 May 2025 10:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

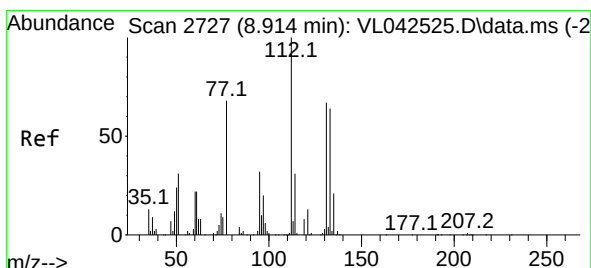
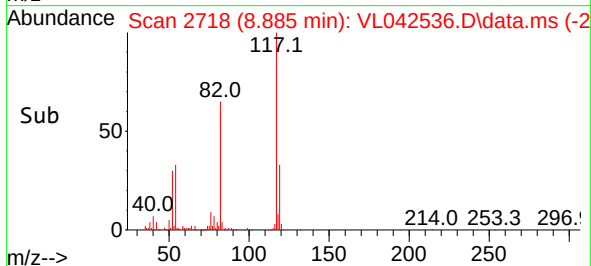
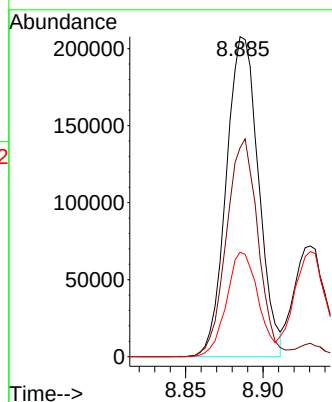
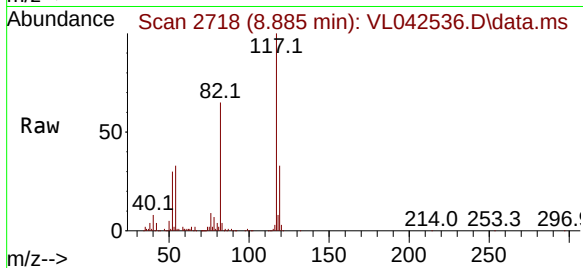
Tgt Ion:117 Resp: 301240

Ion	Ratio	Lower	Upper
117	100		
82	70.2	55.0	82.4
119	32.1	25.8	38.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#56

1,1,1,2-Tetrachloroethane

Concen: 8.904 ppbv

RT: 8.930 min Scan# 2732

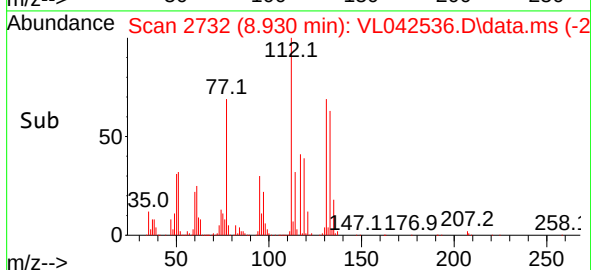
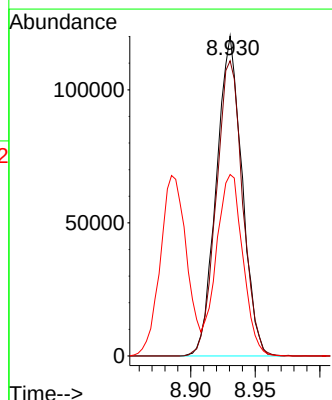
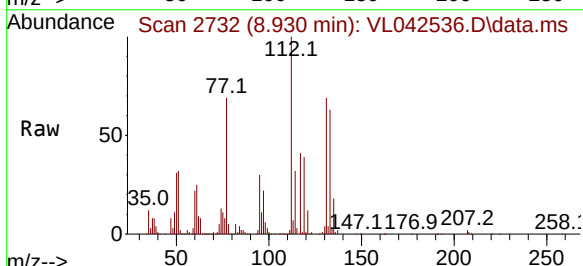
Delta R.T. 0.016 min

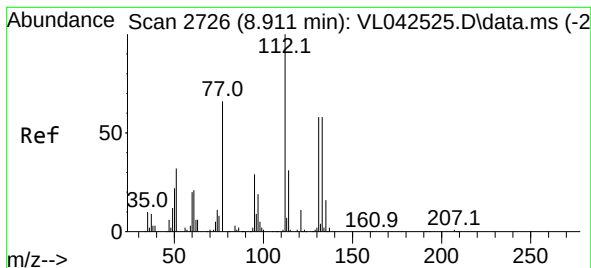
Lab File: VL042536.D

Acq: 14 May 2025 10:23

Tgt Ion:131 Resp: 166298

Ion	Ratio	Lower	Upper
131	100		
133	94.7	77.4	116.2
119	59.8	49.0	73.4





#57

Chlorobenzene

Concen: 8.989 ppbv

RT: 8.927 min Scan# 21

Delta R.T. 0.016 min

Lab File: VL042536.D

Acq: 14 May 2025 10:23

Instrument :

MSVOA_L

ClientSampleId :

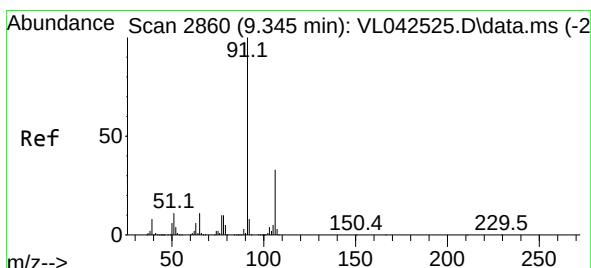
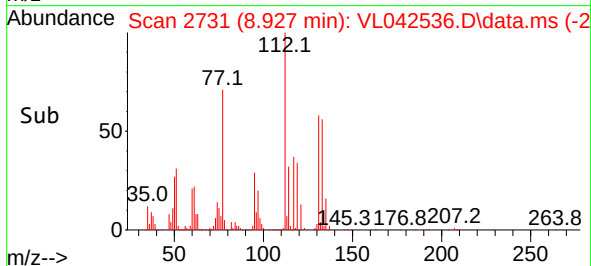
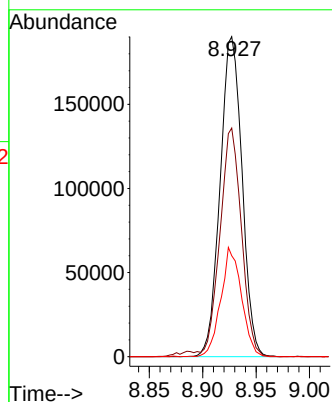
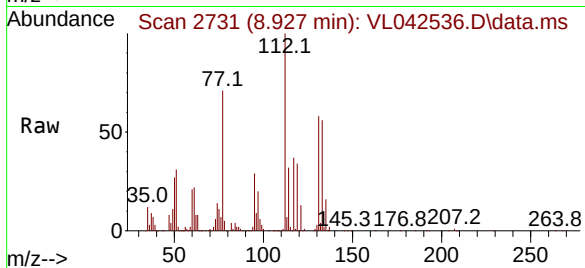
VSTDCCC010

Tgt Ion:	112	Resp:	271874
Ion Ratio	Lower	Upper	
112	100		
77	71.5	53.6	80.4
114	31.6	28.2	34.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#58

Ethyl Benzene

Concen: 11.466 ppbv

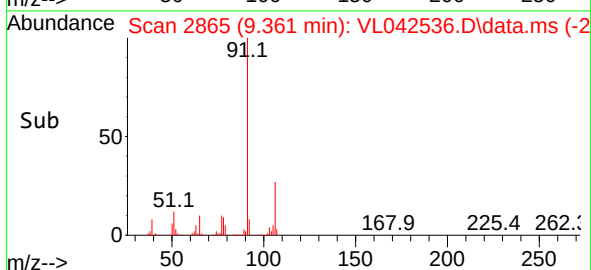
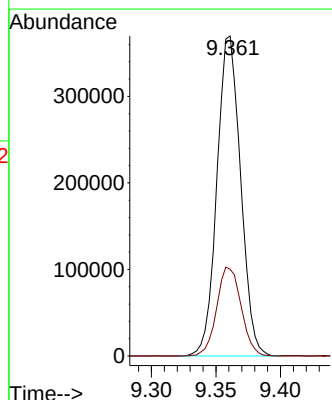
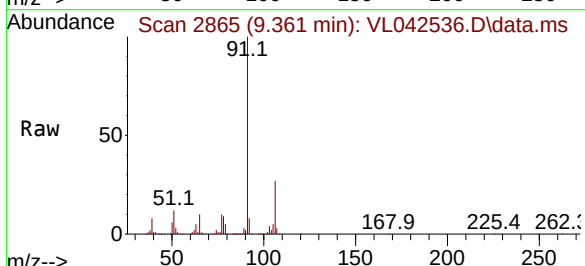
RT: 9.361 min Scan# 2865

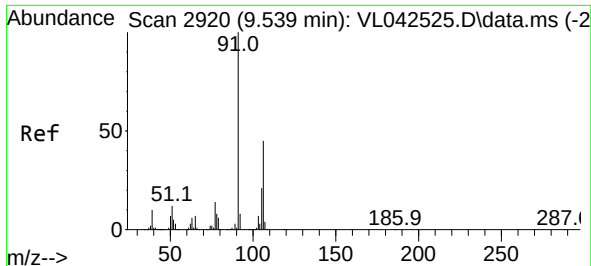
Delta R.T. 0.016 min

Lab File: VL042536.D

Acq: 14 May 2025 10:23

Tgt Ion:	91	Resp:	470778
Ion Ratio	Lower	Upper	
91	100		
106	27.1	26.0	39.0





#59

m/p-Xylene

Concen: 21.838 ppbv m

RT: 9.558 min Scan# 2920

Delta R.T. 0.020 min

Lab File: VL042536.D

Acq: 14 May 2025 10:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 91 Resp: 796362

Ion Ratio Lower Upper

91 100

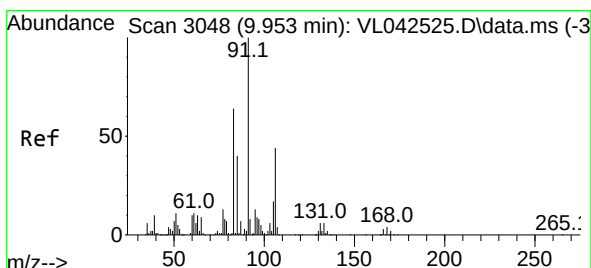
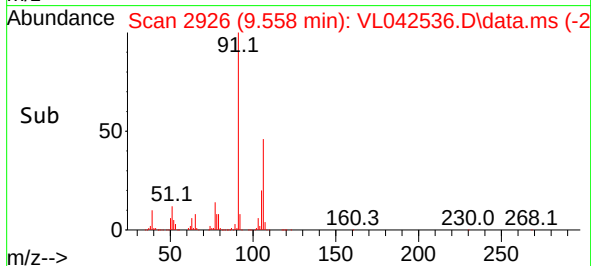
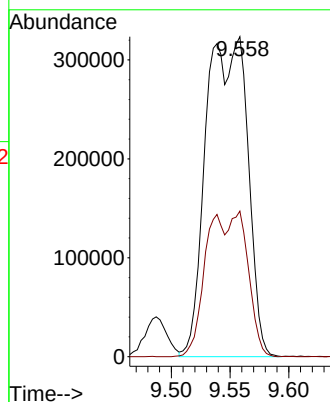
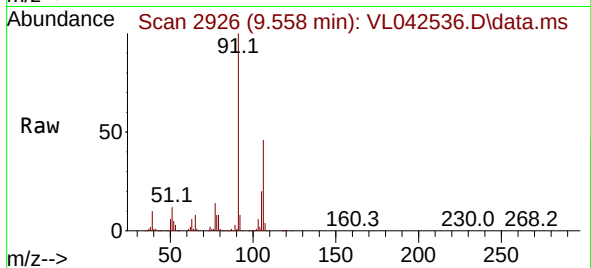
106 44.9 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/15/2025

Supervised By :Mahesh Dadoda 05/15/2025



#60

o-Xylene

Concen: 11.253 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. 0.013 min

Lab File: VL042536.D

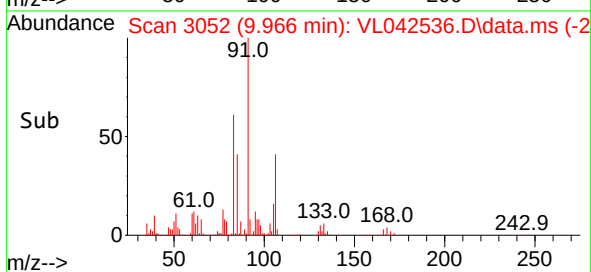
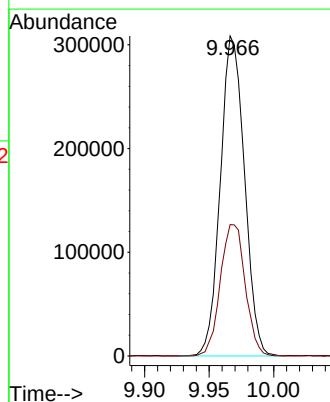
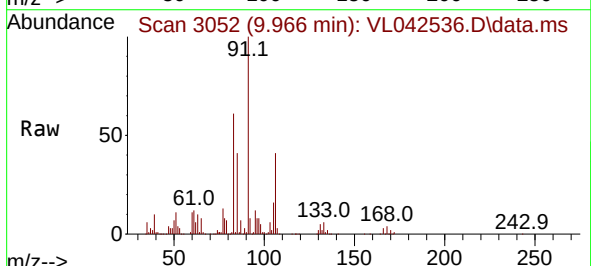
Acq: 14 May 2025 10:23

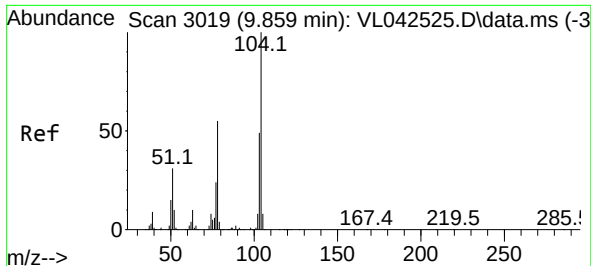
Tgt Ion: 91 Resp: 400752

Ion Ratio Lower Upper

91 100

106 42.4 21.6 64.6





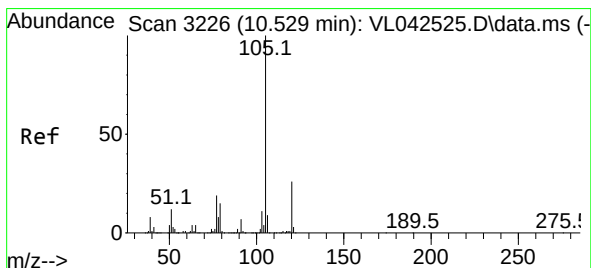
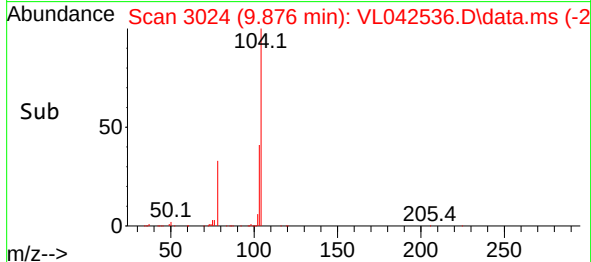
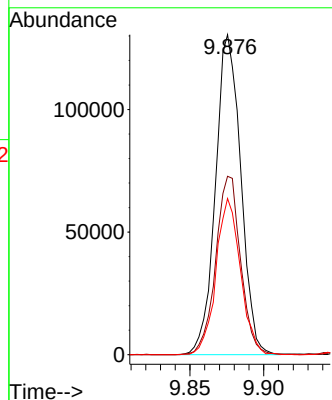
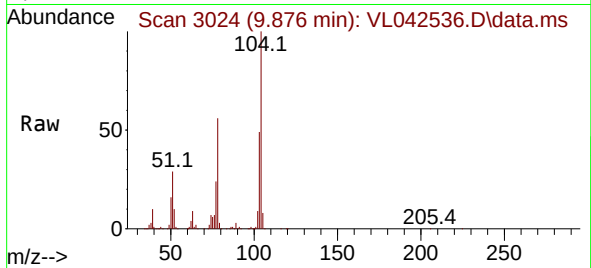
#61
Styrene
Concen: 11.809 ppbv
RT: 9.876 min Scan# 3019
Delta R.T. 0.016 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:104 Resp: 15575
Ion Ratio Lower Upper
104 100
78 54.9 44.7 67.1
103 47.2 38.6 58.0

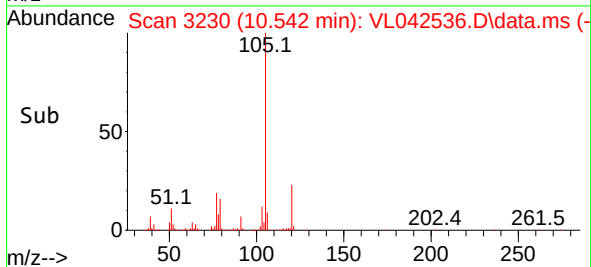
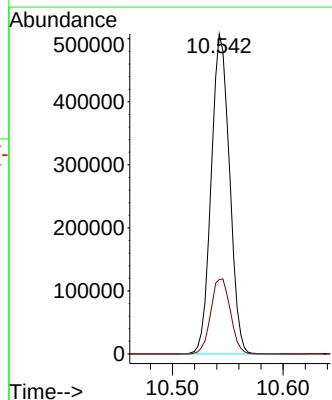
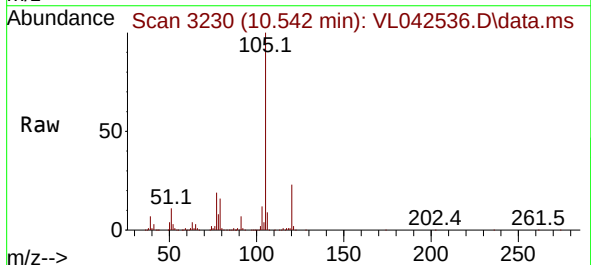
Manual Integrations
APPROVED

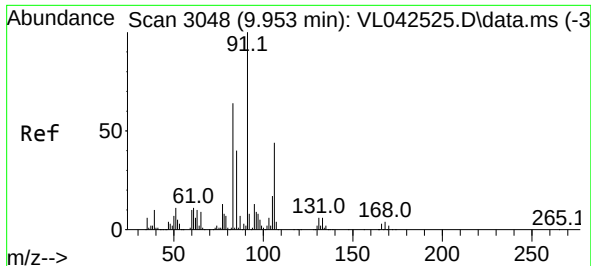
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#62
Isopropylbenzene
Concen: 10.866 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. 0.013 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

Tgt Ion:105 Resp: 582836
Ion Ratio Lower Upper
105 100
120 25.2 20.1 30.1





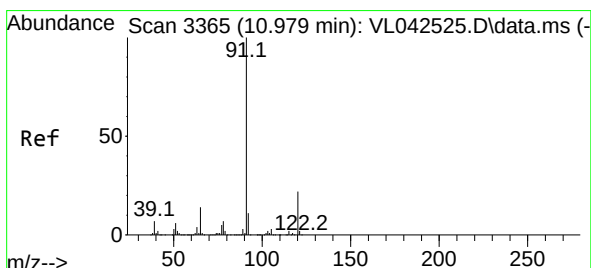
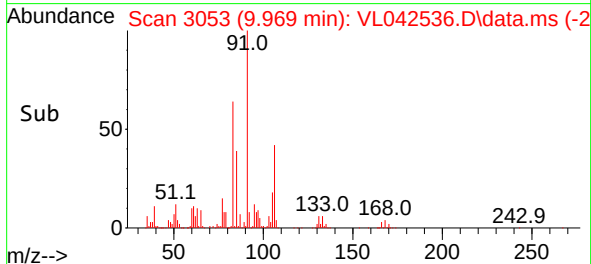
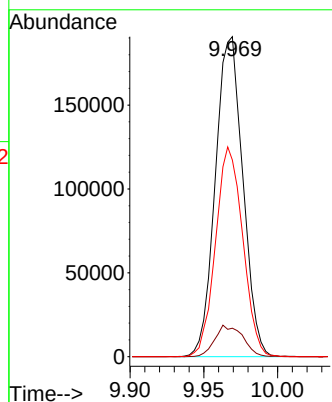
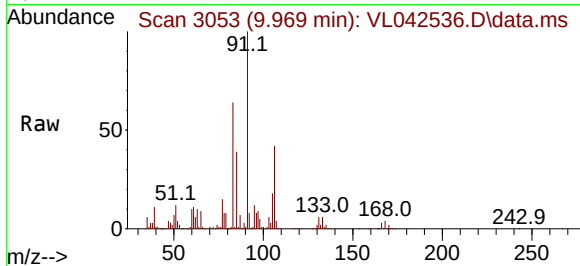
#63
1,1,2,2-Tetrachloroethane
Concen: 8.570 ppbv
RT: 9.969 min Scan# 3048
Delta R.T. 0.016 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 83 Resp: 247714
Ion Ratio Lower Upper
83 100
131 10.0 4.9 14.7
85 64.8 32.3 96.8

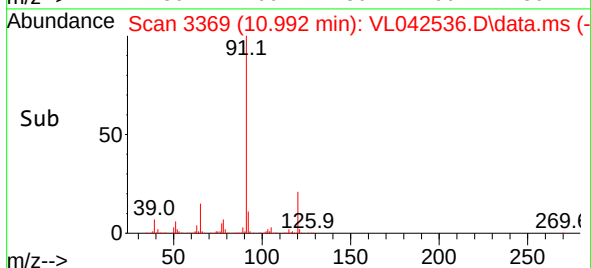
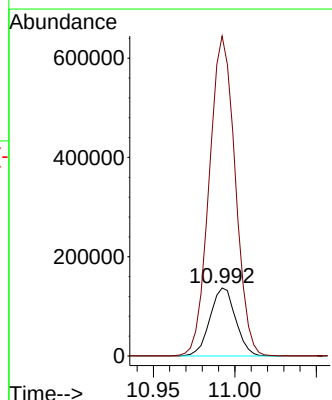
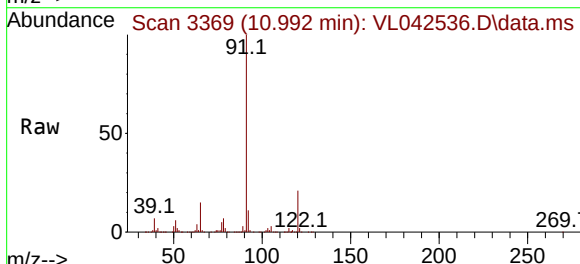
Manual Integrations
APPROVED

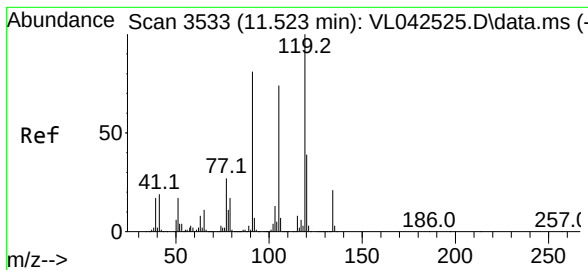
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#64
n-propylbenzene
Concen: 10.978 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. 0.013 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

Tgt Ion:120 Resp: 149494
Ion Ratio Lower Upper
120 100
91 479.1 377.7 566.5





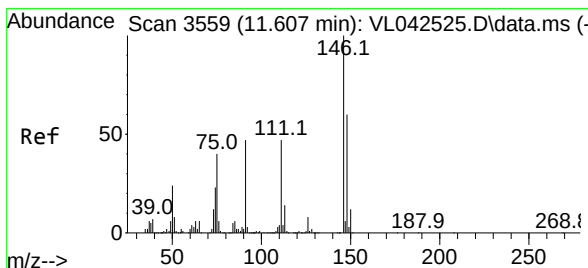
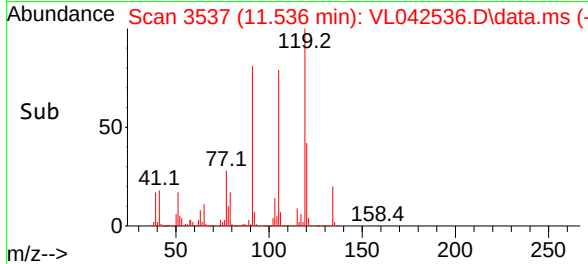
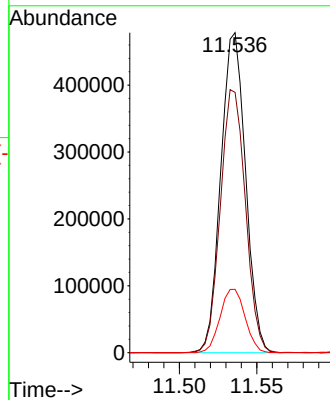
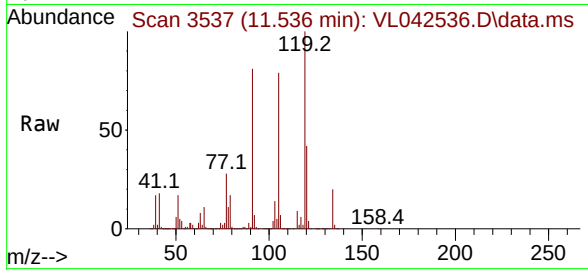
#65
tert-Butylbenzene
Concen: 10.790 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. 0.013 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 119 Resp: 531415
Ion Ratio Lower Upper
119 100
91 83.5 66.6 99.8
134 20.0 16.3 24.5

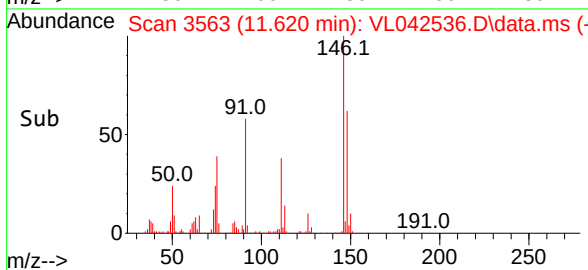
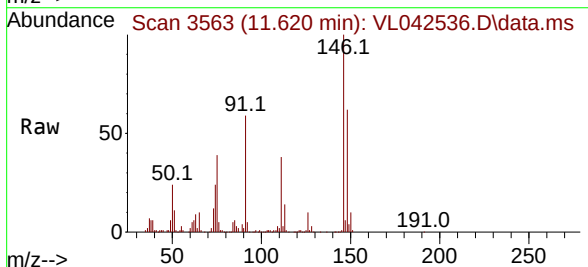
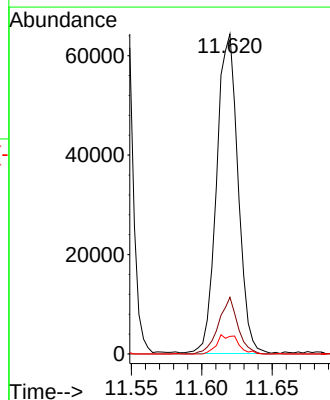
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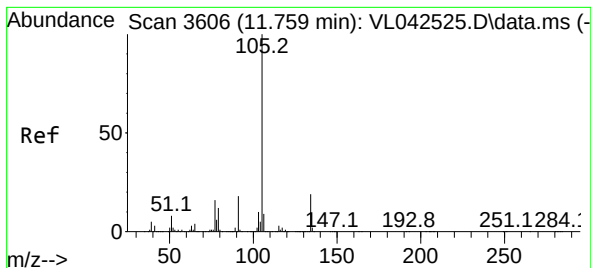
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#66
Benzyl Chloride
Concen: 10.391 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. 0.013 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

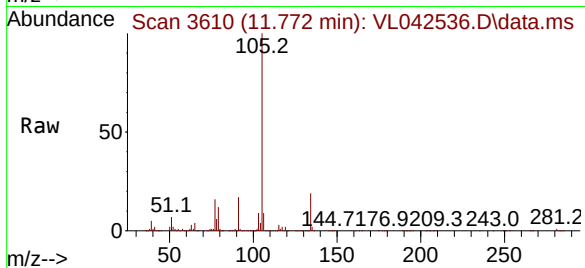
Tgt Ion: 91 Resp: 68005
Ion Ratio Lower Upper
91 100
126 16.0 13.7 20.5
128 6.1 4.2 6.2





#67
 sec-Butylbenzene
 Concen: 10.390 ppbv
 RT: 11.772 min Scan# 3610
 Delta R.T. 0.013 min
 Lab File: VL042536.D
 Acq: 14 May 2025 10:23

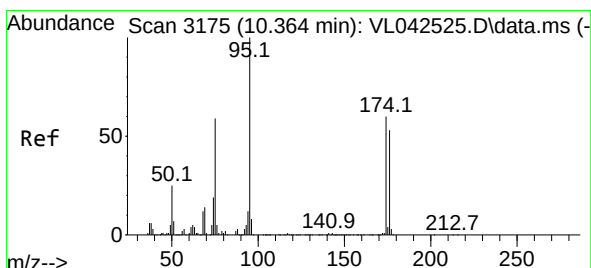
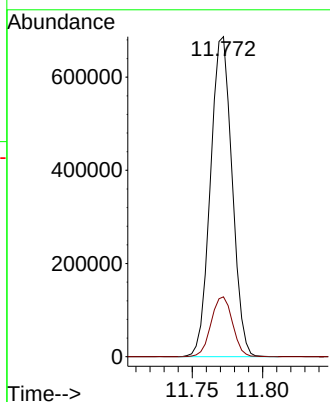
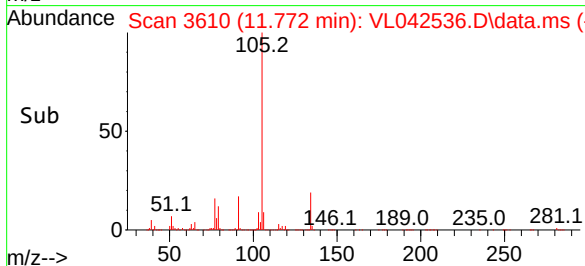
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



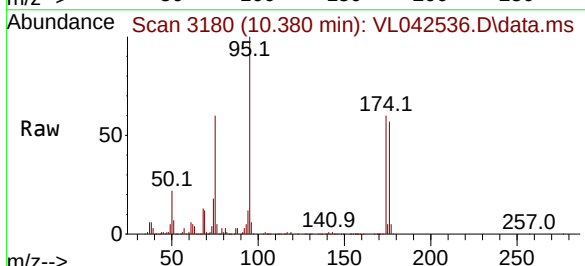
Tgt Ion:105 Resp: 73370
 Ion Ratio Lower Upper
 105 100
 134 18.6 14.9 22.3

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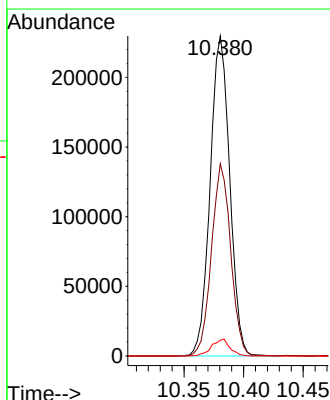
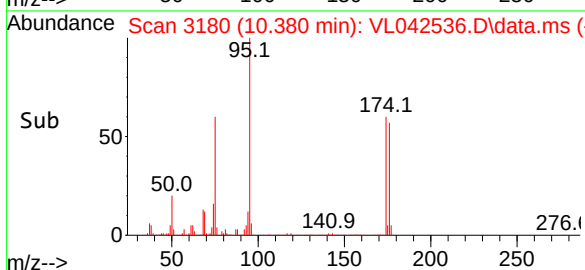
Reviewed By :Semsettin Yesilyurt 05/15/2025
 Supervised By :Mahesh Dadoda 05/15/2025

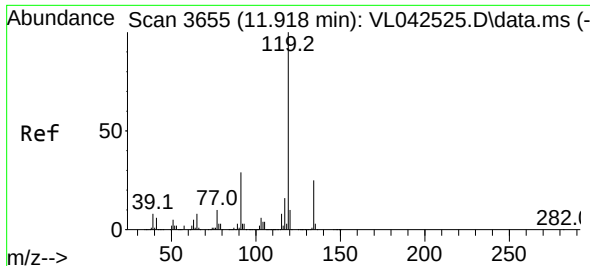


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.012 ppbv
 RT: 10.380 min Scan# 3180
 Delta R.T. 0.016 min
 Lab File: VL042536.D
 Acq: 14 May 2025 10:23



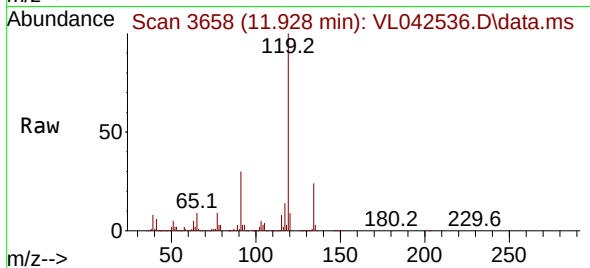
Tgt Ion: 95 Resp: 262420
 Ion Ratio Lower Upper
 95 100
 174 58.9 48.0 72.0
 175 4.9 3.5 5.3





#69
p-Isopropyltoluene
Concen: 11.049 ppbv
RT: 11.928 min Scan# 3658
Delta R.T. 0.010 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

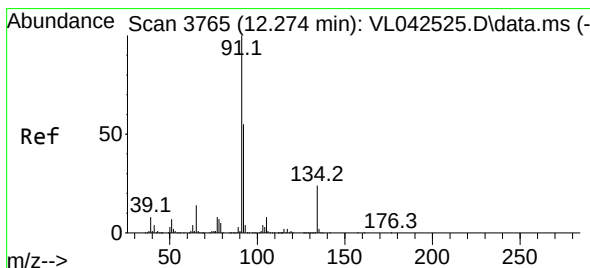
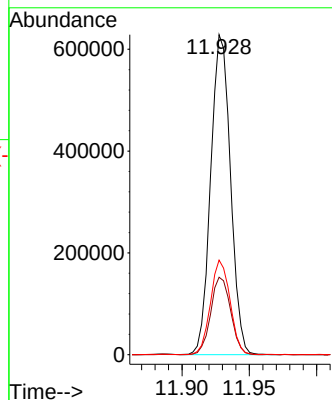
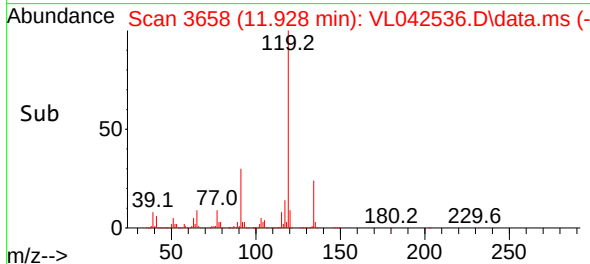
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



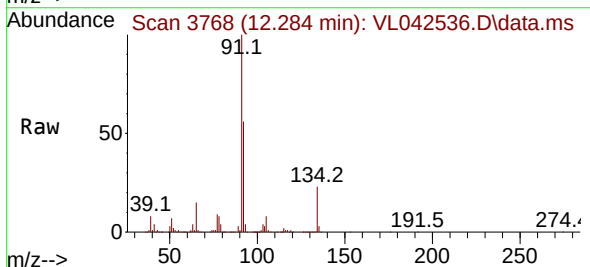
Tgt Ion:119 Resp: 641428
Ion Ratio Lower Upper
119 100
134 24.5 19.8 29.6
91 29.4 23.6 35.4

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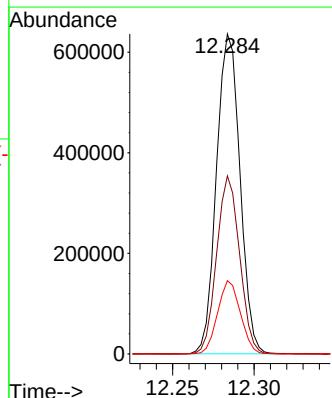
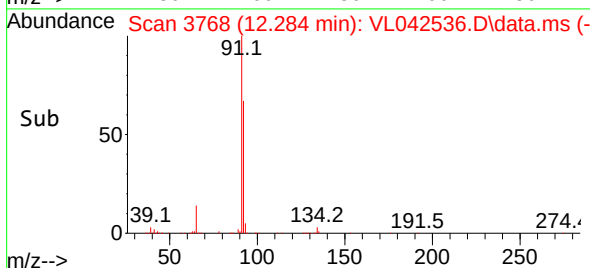
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025

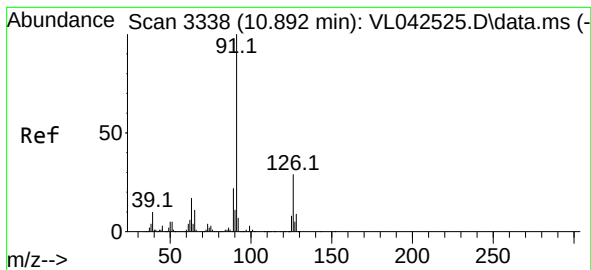


#70
n-Butylbenzene
Concen: 11.113 ppbv
RT: 12.284 min Scan# 3768
Delta R.T. 0.010 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23



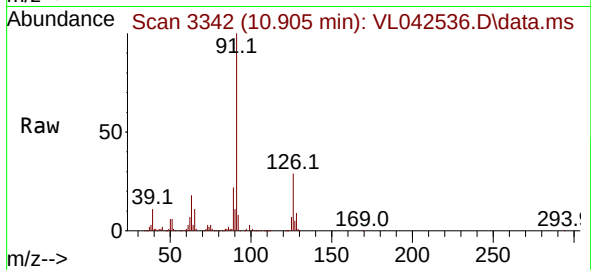
Tgt Ion: 91 Resp: 637479
Ion Ratio Lower Upper
91 100
92 54.4 43.7 65.5
134 22.3 18.9 28.3





#71
2-Chlorotoluene
Concen: 11.075 ppbv
RT: 10.905 min Scan# 3411
Delta R.T. 0.013 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

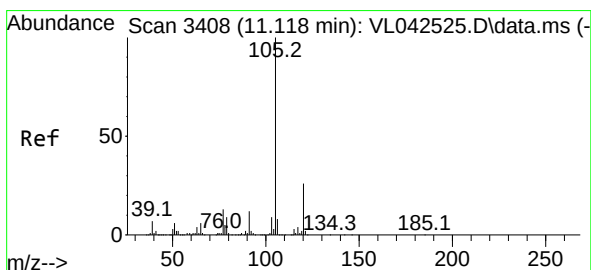
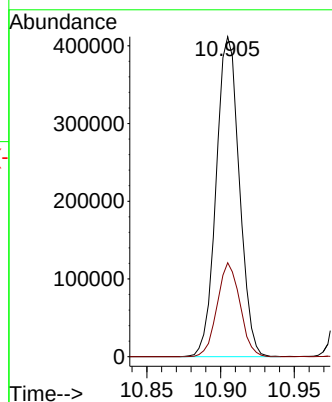
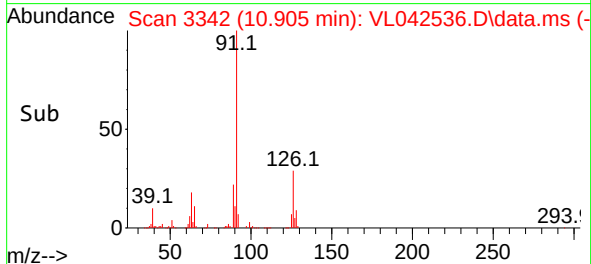
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion: 91 Resp: 449790
Ion Ratio Lower Upper
91 100
126 28.8 11.4 45.6

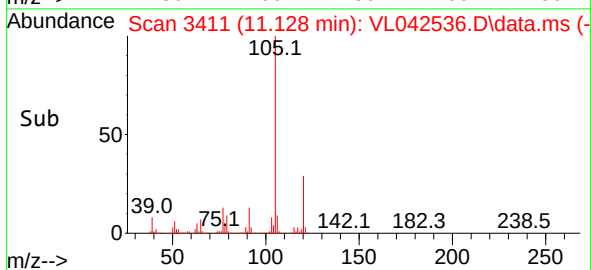
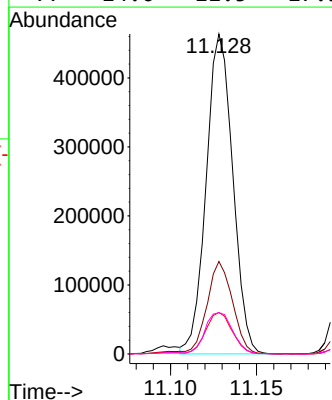
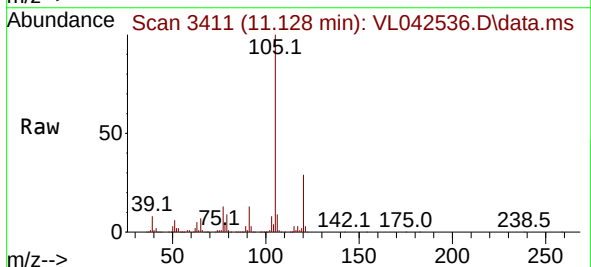
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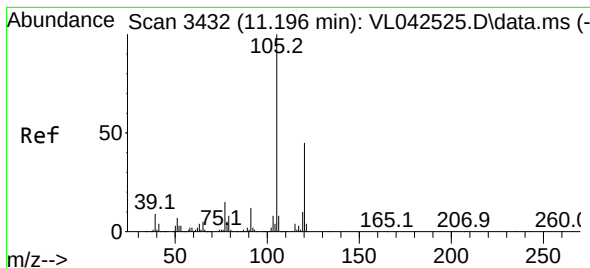
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#72
4-Ethyltoluene
Concen: 11.252 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.010 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

Tgt Ion:105 Resp: 497072
Ion Ratio Lower Upper
105 100
120 28.5 22.9 34.3
91 13.4 10.9 16.3
77 14.0 11.5 17.3





#73

1,3,5-Trimethylbenzene

Concen: 10.849 ppbv

RT: 11.206 min Scan# 3432

Delta R.T. 0.010 min

Lab File: VL042536.D

Acq: 14 May 2025 10:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion:105 Resp: 417484

Ion Ratio Lower Upper

105 100

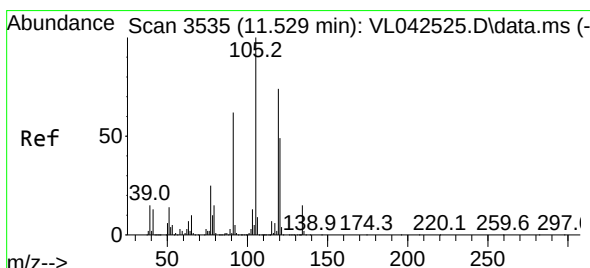
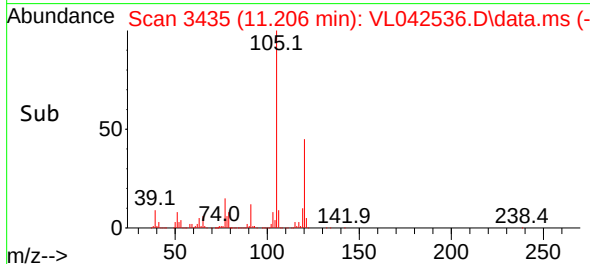
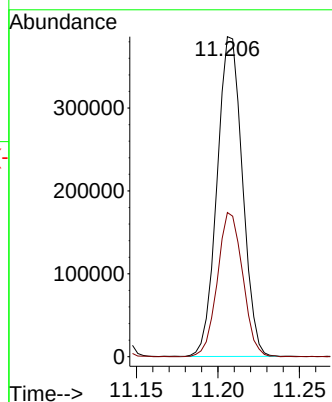
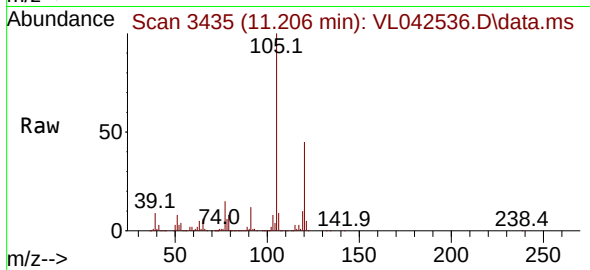
120 45.1 36.0 54.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/15/2025

Supervised By :Mahesh Dadoda 05/15/2025



#74

1,2,4-Trimethylbenzene

Concen: 10.016 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. 0.010 min

Lab File: VL042536.D

Acq: 14 May 2025 10:23

Tgt Ion:105 Resp: 474163

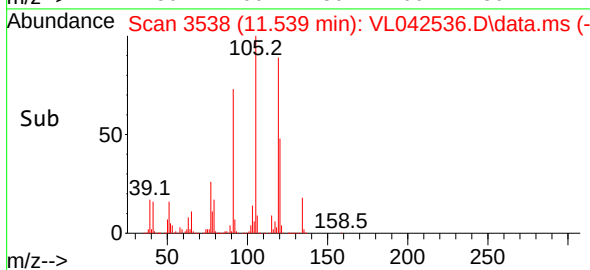
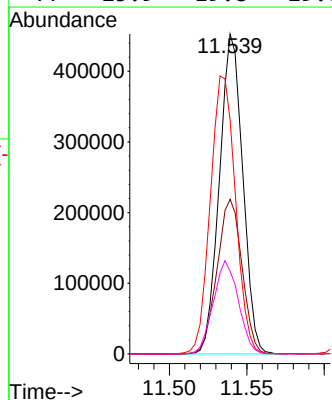
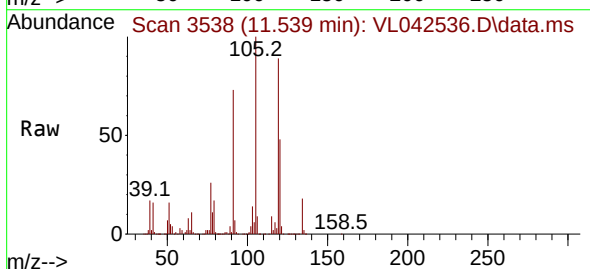
Ion Ratio Lower Upper

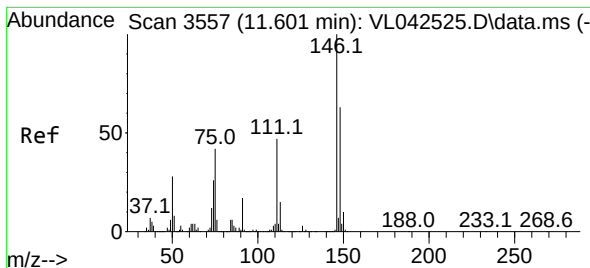
105 100

120 48.4 39.0 58.6

91 73.1 49.4 74.2

77 25.9 19.8 29.6





#75

1,3-Dichlorobenzene

Concen: 9.464 ppbv

RT: 11.610 min Scan# 3557

Delta R.T. 0.010 min

Lab File: VL042536.D

Acq: 14 May 2025 10:23

Instrument :

MSVOA_L

ClientSampleId :

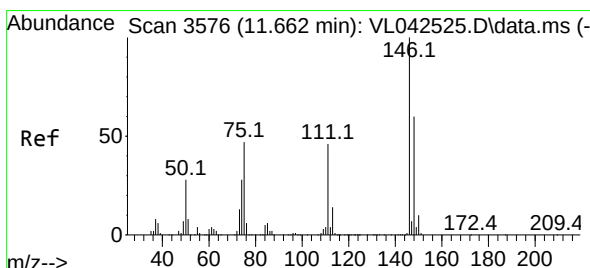
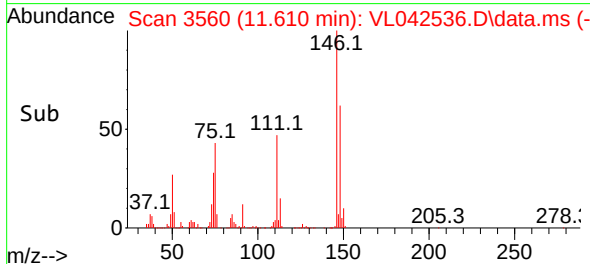
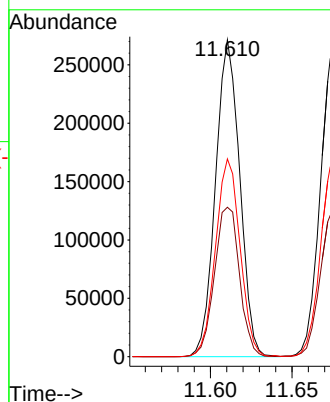
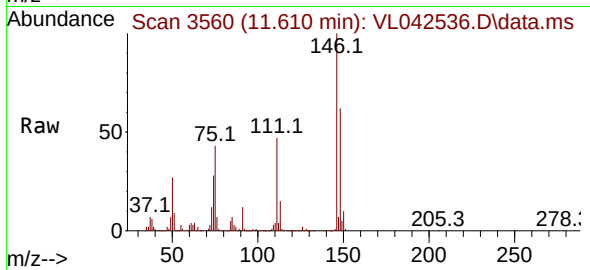
VSTDCCC010

Tgt Ion:146 Resp: 280620
 Ion Ratio Lower Upper
 146 100
 111 48.9 23.6 71.0
 148 63.2 31.6 94.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/15/2025
 Supervised By :Mahesh Dadoda 05/15/2025



#76

1,4-Dichlorobenzene

Concen: 9.958 ppbv

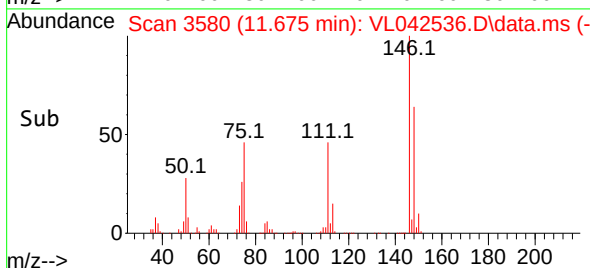
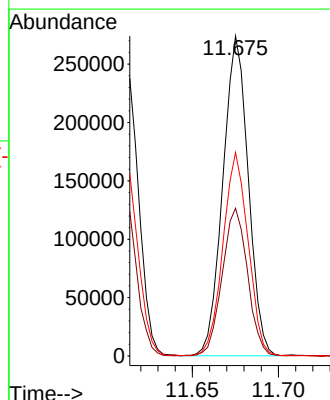
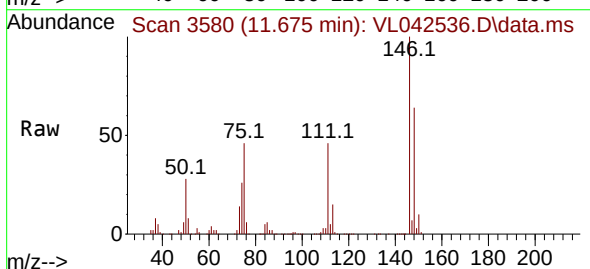
RT: 11.675 min Scan# 3580

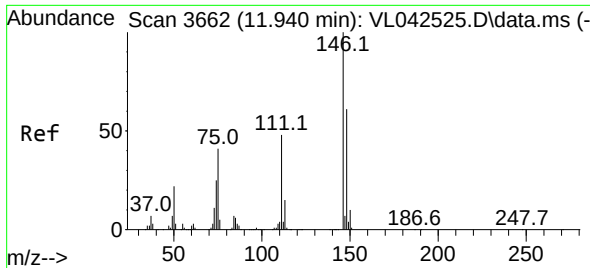
Delta R.T. 0.013 min

Lab File: VL042536.D

Acq: 14 May 2025 10:23

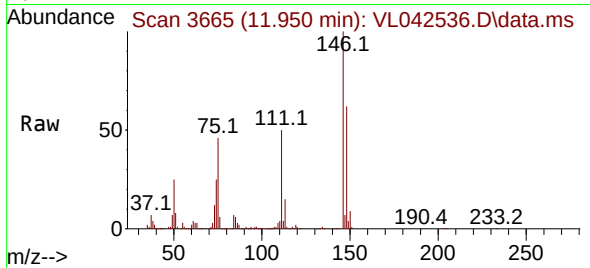
Tgt Ion:146 Resp: 280915
 Ion Ratio Lower Upper
 146 100
 111 46.4 23.4 70.3
 148 63.2 31.6 94.7





#77
1,2-Dichlorobenzene
Concen: 8.908 ppbv
RT: 11.950 min Scan# 3665
Delta R.T. 0.010 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

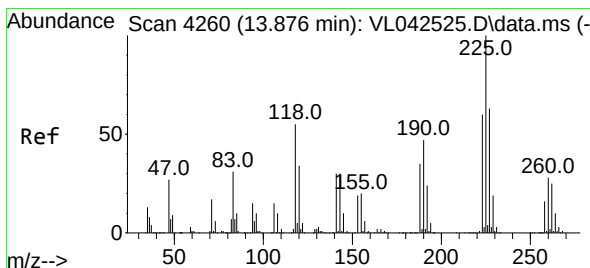
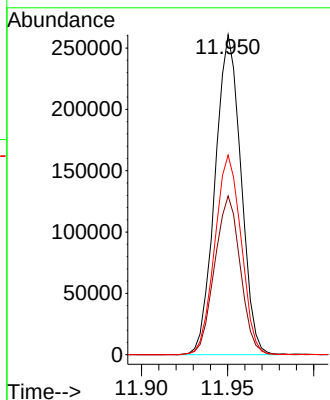
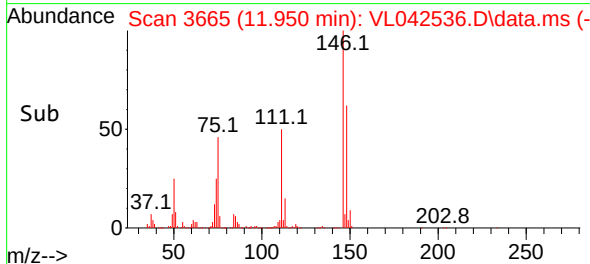
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



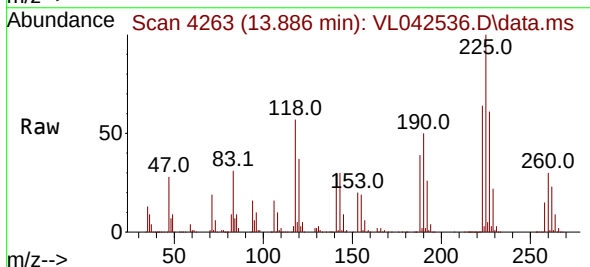
Tgt Ion:146 Resp: 272842
Ion Ratio Lower Upper
146 100
111 49.4 24.9 74.8
148 63.5 31.4 94.2

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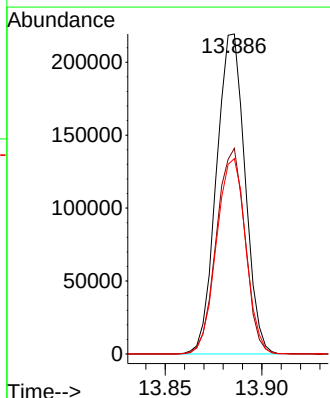
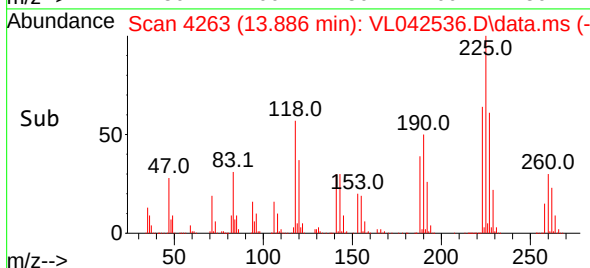
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025

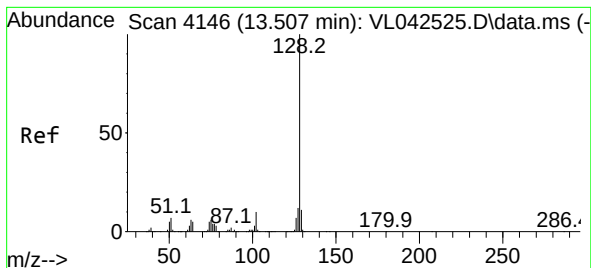


#78
Hexachloro-1,3-Butadiene
Concen: 8.588 ppbv
RT: 13.886 min Scan# 4263
Delta R.T. 0.010 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23



Tgt Ion:225 Resp: 225532
Ion Ratio Lower Upper
225 100
223 64.0 50.8 76.2
227 62.5 50.5 75.7





#79

Naphthalene

Concen: 13.459 ppbv

RT: 13.517 min Scan# 4149

Delta R.T. 0.010 min

Lab File: VL042536.D

Acq: 14 May 2025 10:23

Instrument :

MSVOA_L

ClientSampleId :

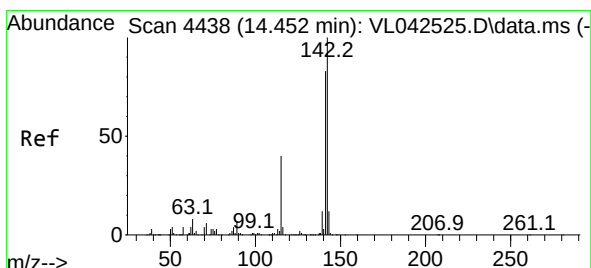
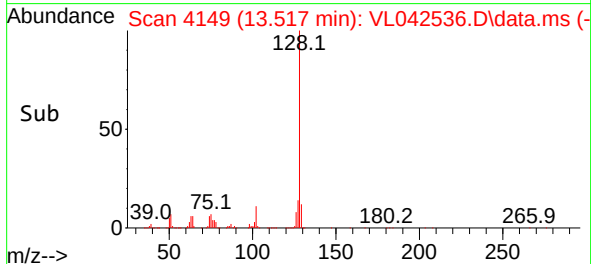
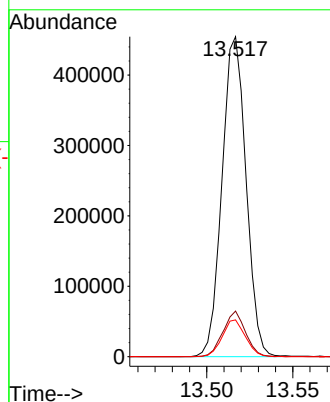
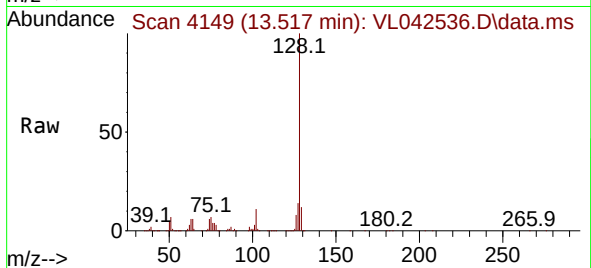
VSTDCCC010

Tgt Ion:128	Resp: 441570
Ion Ratio	Lower Upper
128 100	
127 14.2	9.8 14.8
129 11.5	8.6 12.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#80

Naphthalene,2-methyl-

Concen: 14.525 ppbv

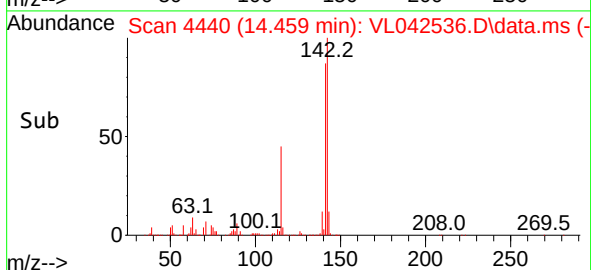
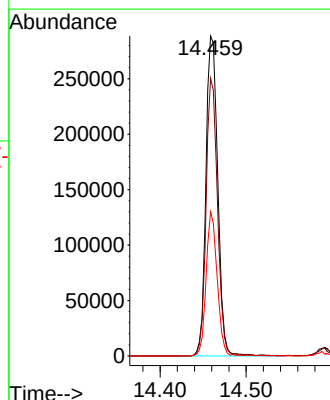
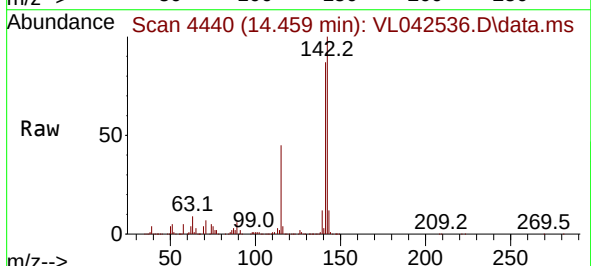
RT: 14.459 min Scan# 4440

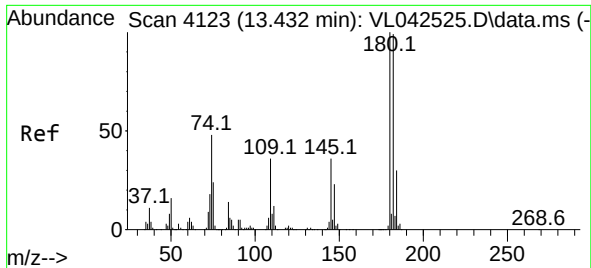
Delta R.T. 0.007 min

Lab File: VL042536.D

Acq: 14 May 2025 10:23

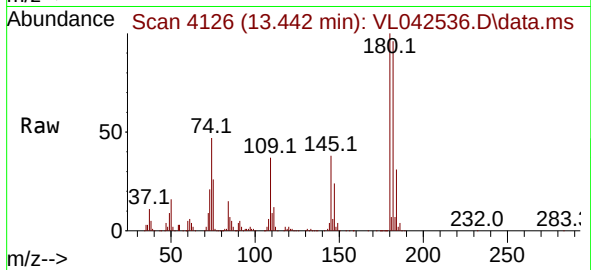
Tgt Ion:142	Resp: 275041
Ion Ratio	Lower Upper
142 100	
141 84.4	66.8 100.2
115 42.5	33.0 49.6





#81
 1,2,4-Trichlorobenzene
 Concen: 11.385 ppbv
 RT: 13.442 min Scan# 41
 Delta R.T. 0.010 min
 Lab File: VL042536.D
 Acq: 14 May 2025 10:23

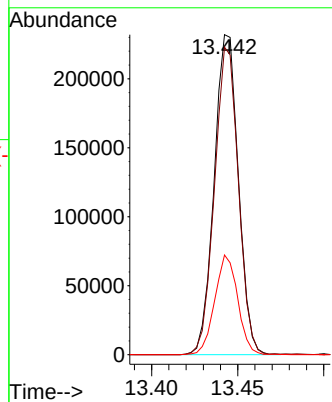
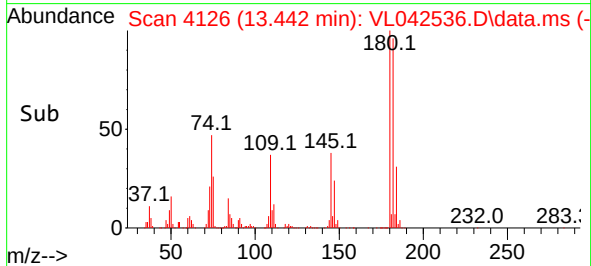
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



Tgt Ion:180 Resp: 227198
 Ion Ratio Lower Upper
 180 100
 182 95.0 76.6 114.8
 184 29.5 24.6 36.8

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 05/15/2025
 Supervised By :Mahesh Dadoda 05/15/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051425\
 Data File : VL042536.D
 Acq On : 14 May 2025 10:23
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: May 15 01:31:30 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue May 13 02:07:03 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	102	0.01
2 T	Dichlorodifluoromethane	1.624	1.454	10.5	101	0.00
3	Chlorodifluoromethane	1.655	1.513	8.6	100	0.00
4	Chloromethane	0.663	0.593	10.6	103	0.00
5 T	Vinyl Chloride	0.678	0.550	18.9	101	0.00
6 T	Bromomethane	0.322	0.290	9.9	101	0.00
7	Chloroethane	0.268	0.214	20.1	98	0.00
8 T	Dichlorotetrafluoroethane	1.397	1.229	12.0	102	0.00
9 T	Propene	0.359	0.497	-38.4#	569#	0.00
10 T	Heptane	1.371	1.421	-3.6	98	0.03
11 T	Trichlorofluoromethane	1.562	1.483	5.1	108	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.255	1.191	5.1	110	0.01
13	Ethanol	0.097	0.069	28.9	104	0.00
14 T	Bromoethene	0.457	0.423	7.4	106	0.00
15 T	Acetone	1.612	1.223	24.1	103	0.00
16 T	1,3-Butadiene	0.719	0.645	10.3	102	0.00
17	tert-Butyl alcohol	1.477	1.420	3.9	105	0.00
18 T	1,1-Dichloroethene	0.550	0.528	4.0	109	0.00
19 T	Isopropyl Alcohol	0.868	0.793	8.6	104	0.00
20 T	Methylene Chloride	0.556	0.474	14.7	113	0.00
21 T	Allyl Chloride	1.058	1.017	3.9	105	0.00
22 T	trans-1,2-Dichloroethene	0.643	0.596	7.3	108	0.01
23 T	Vinyl Acetate	1.673	1.648	1.5	104	0.00
24 T	1,1-Dichloroethane	1.244	1.181	5.1	106	0.01
25 T	Ethyl Acetate	2.806	2.718	3.1	97	0.01
26 T	Hexane	1.152	1.209	-4.9	102	0.00
27 T	Carbon Disulfide	1.487	1.471	1.1	106	0.00
28 T	Methyl tert-Butyl Ether	0.640	0.714	-11.6	120	0.01
29 T	Chloroform	2.389	2.122	11.2	101	0.01
30 T	Cyclohexane	0.946	0.993	-5.0	99	0.02
31 T	cis-1,2-Dichloroethene	1.301	1.220	6.2	98	0.01
32 T	1,1,1-Trichloroethane	2.465	2.166	12.1	98	0.01
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	102	0.02
34 T	2-Butanone	0.659	0.571	13.4	97	0.00
35 T	Carbon Tetrachloride	0.899	0.804	10.6	101	0.02
36 T	Benzene	0.886	0.844	4.7	102	0.02
37 T	1,2-Dichloroethane	0.632	0.562	11.1	100	0.01
38 T	Trichloroethene	0.385	0.350	9.1	99	0.02
39 T	1,2-Dichloropropane	0.330	0.296	10.3	98	0.02
40 T	1,4-Dioxane	0.134	0.131	2.2	99	0.02
41 T	Tetrahydrofuran	0.285	0.297	-4.2	98	0.00
42 T	Bromodichloromethane	0.844	0.775	8.2	101	0.02
43	Methyl Methacrylate	0.297	0.310	-4.4	98	0.03
44 T	2,2,4-Trimethylpentane	1.404	1.390	1.0	99	0.02
45 T	t-1,3-Dichloropropene	0.379	0.389	-2.6	98	0.03
46 T	cis-1,3-Dichloropropene	0.456	0.468	-2.6	98	0.03
47 T	1,1,2-Trichloroethane	0.389	0.350	10.0	101	0.03
48 T	Dibromochloromethane	0.649	0.618	4.8	102	0.02

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051425\
 Data File : VL042536.D
 Acq On : 14 May 2025 10:23
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: May 15 01:31:30 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue May 13 02:07:03 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	0.533	0.521	2.3	101	0.01
50 T	4-Methyl-2-Pentanone	0.774	0.799	-3.2	98	0.02
51 T	2-Hexanone	0.576	0.654	-13.5	100	0.02
52 T	Tetrachloroethene	0.339	0.304	10.3	98	0.02
53 T	Toluene	0.870	0.936	-7.6	100	0.03
54 T	1,2-Dibromoethane	0.568	0.527	7.2	100	0.02
55 I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.02
56	1,1,1,2-Tetrachloroethane	0.620	0.552	11.0	100	0.02
57 T	Chlorobenzene	1.004	0.902	10.2	100	0.02
58 T	Ethyl Benzene	1.363	1.563	-14.7	100	0.02
59 T	m/p-Xylene	1.211	1.322	-9.2	99	0.02
60 T	o-Xylene	1.182	1.330	-12.5	100	0.01
61 T	Styrene	0.438	0.517	-18.0	102	0.02
62	Isopropylbenzene	1.780	1.935	-8.7	101	0.01
63 T	1,1,2,2-Tetrachloroethane	0.959	0.822	14.3	101	0.02
64	n-propylbenzene	0.452	0.496	-9.7	98	0.01
65	tert-Butylbenzene	1.635	1.764	-7.9	100	0.01
66 T	Benzyl Chloride	0.217	0.226	-4.1	102	0.01
67	sec-Butylbenzene	2.344	2.436	-3.9	99	0.01
68 S	1-Bromo-4-Fluorobenzene	0.870	0.871	-0.1	100	0.02
69	p-Isopropyltoluene	1.927	2.129	-10.5	99	0.00
70	n-Butylbenzene	1.904	2.116	-11.1	100	0.00
71	2-Chlorotoluene	1.348	1.493	-10.8	101	0.01
72 T	4-Ethyltoluene	1.466	1.650	-12.6	100	0.00
73 T	1,3,5-Trimethylbenzene	1.277	1.386	-8.5	98	0.00
74 T	1,2,4-Trimethylbenzene	1.572	1.574	-0.1	98	0.00
75 T	1,3-Dichlorobenzene	0.984	0.932	5.3	98	0.00
76 T	1,4-Dichlorobenzene	0.936	0.933	0.3	101	0.01
77 T	1,2-Dichlorobenzene	1.017	0.906	10.9	100	0.00
78 T	Hexachloro-1,3-Butadiene	0.872	0.749	14.1	103	0.00
79 T	Naphthalene	1.089	1.466	-34.6#	107	0.00
80 T	Naphthalene,2-methyl-	0.629	0.913	-45.2#	118	0.00
81 T	1,2,4-Trichlorobenzene	0.662	0.754	-13.9	104	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051425\
 Data File : VL042536.D
 Acq On : 14 May 2025 10:23
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: May 15 01:31:30 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue May 13 02:07:03 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	102	0.01
2 T	Dichlorodifluoromethane	10.000	8.955	10.4	101	0.00
3	Chlorodifluoromethane	10.000	9.142	8.6	100	0.00
4	Chloromethane	10.000	8.951	10.5	103	0.00
5 T	Vinyl Chloride	10.000	8.113	18.9	101	0.00
6 T	Bromomethane	10.000	9.007	9.9	101	0.00
7	Chloroethane	10.000	7.999	20.0	98	0.00
8 T	Dichlorotetrafluoroethane	10.000	8.795	12.1	102	0.00
9 T	Propene	10.000	13.846	-38.5#	569	0.00
10 T	Heptane	10.000	10.358	-3.6	98	0.03
11 T	Trichlorofluoromethane	10.000	9.493	5.1	108	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	9.496	5.0	110	0.01
13	Ethanol	10.000	7.187	28.1	104	0.00
14 T	Bromoethene	10.000	9.254	7.5	106	0.00
15 T	Acetone	10.000	7.586	24.1	103	0.00
16 T	1,3-Butadiene	10.000	8.972	10.3	102	0.00
17	tert-Butyl alcohol	10.000	9.620	3.8	105	0.00
18 T	1,1-Dichloroethene	10.000	9.607	3.9	109	0.00
19 T	Isopropyl Alcohol	10.000	9.138	8.6	104	0.00
20 T	Methylene Chloride	10.000	8.523	14.8	113	0.00
21 T	Allyl Chloride	10.000	9.609	3.9	105	0.00
22 T	trans-1,2-Dichloroethene	10.000	9.270	7.3	108	0.01
23 T	Vinyl Acetate	10.000	9.852	1.5	104	0.00
24 T	1,1-Dichloroethane	10.000	9.491	5.1	106	0.01
25 T	Ethyl Acetate	10.000	9.689	3.1	97	0.01
26 T	Hexane	10.000	10.498	-5.0	102	0.00
27 T	Carbon Disulfide	10.000	9.889	1.1	106	0.00
28 T	Methyl tert-Butyl Ether	10.000	11.156	-11.6	120	0.01
29 T	Chloroform	10.000	8.880	11.2	101	0.01
30 T	Cyclohexane	10.000	10.502	-5.0	99	0.02
31 T	cis-1,2-Dichloroethene	10.000	9.383	6.2	98	0.01
32 T	1,1,1-Trichloroethane	10.000	8.787	12.1	98	0.01
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	102	0.02
34 T	2-Butanone	10.000	8.664	13.4	97	0.00
35 T	Carbon Tetrachloride	10.000	8.947	10.5	101	0.02
36 T	Benzene	10.000	9.521	4.8	102	0.02
37 T	1,2-Dichloroethane	10.000	8.885	11.2	100	0.01
38 T	Trichloroethene	10.000	9.092	9.1	99	0.02
39 T	1,2-Dichloropropane	10.000	8.967	10.3	98	0.02
40 T	1,4-Dioxane	10.000	9.810	1.9	99	0.02
41 T	Tetrahydrofuran	10.000	10.412	-4.1	98	0.00
42 T	Bromodichloromethane	10.000	9.183	8.2	101	0.02
43	Methyl Methacrylate	10.000	10.440	-4.4	98	0.03
44 T	2,2,4-Trimethylpentane	10.000	9.900	1.0	99	0.02
45 T	t-1,3-Dichloropropene	10.000	10.271	-2.7	98	0.03
46 T	cis-1,3-Dichloropropene	10.000	10.268	-2.7	98	0.03
47 T	1,1,2-Trichloroethane	10.000	8.999	10.0	101	0.03
48 T	Dibromochloromethane	10.000	9.523	4.8	102	0.02

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051425\
 Data File : VL042536.D
 Acq On : 14 May 2025 10:23
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: May 15 01:31:30 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue May 13 02:07:03 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	9.790	2.1	101	0.01
50 T	4-Methyl-2-Pentanone	10.000	10.326	-3.3	98	0.02
51 T	2-Hexanone	10.000	11.360	-13.6	100	0.02
52 T	Tetrachloroethene	10.000	8.964	10.4	98	0.02
53 T	Toluene	10.000	10.761	-7.6	100	0.03
54 T	1,2-Dibromoethane	10.000	9.275	7.2	100	0.02
55 I	Chlorobenzene-d5	10.000	10.000	0.0	100	0.02
56	1,1,1,2-Tetrachloroethane	10.000	8.904	11.0	100	0.02
57 T	Chlorobenzene	10.000	8.989	10.1	100	0.02
58 T	Ethyl Benzene	10.000	11.466	-14.7	100	0.02
59 T	m/p-Xylene	20.000	21.838	-9.2	99	0.02
60 T	o-Xylene	10.000	11.253	-12.5	100	0.01
61 T	Styrene	10.000	11.809	-18.1	102	0.02
62	Isopropylbenzene	10.000	10.866	-8.7	101	0.01
63 T	1,1,2,2-Tetrachloroethane	10.000	8.570	14.3	101	0.02
64	n-propylbenzene	10.000	10.978	-9.8	98	0.01
65	tert-Butylbenzene	10.000	10.790	-7.9	100	0.01
66 T	Benzyl Chloride	10.000	10.391	-3.9	102	0.01
67	sec-Butylbenzene	10.000	10.390	-3.9	99	0.01
68 S	1-Bromo-4-Fluorobenzene	10.000	10.012	-0.1	100	0.02
69	p-Isopropyltoluene	10.000	11.049	-10.5	99	0.00
70	n-Butylbenzene	10.000	11.113	-11.1	100	0.00
71	2-Chlorotoluene	10.000	11.075	-10.7	101	0.01
72 T	4-Ethyltoluene	10.000	11.252	-12.5	100	0.00
73 T	1,3,5-Trimethylbenzene	10.000	10.849	-8.5	98	0.00
74 T	1,2,4-Trimethylbenzene	10.000	10.016	-0.2	98	0.00
75 T	1,3-Dichlorobenzene	10.000	9.464	5.4	98	0.00
76 T	1,4-Dichlorobenzene	10.000	9.958	0.4	101	0.01
77 T	1,2-Dichlorobenzene	10.000	8.908	10.9	100	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	8.588	14.1	103	0.00
79 T	Naphthalene	10.000	13.459	-34.6#	107	0.00
80 T	Naphthalene,2-methyl-	10.000	14.525	-45.3#	118	0.00
81 T	1,2,4-Trichlorobenzene	10.000	11.385	-13.8	104	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



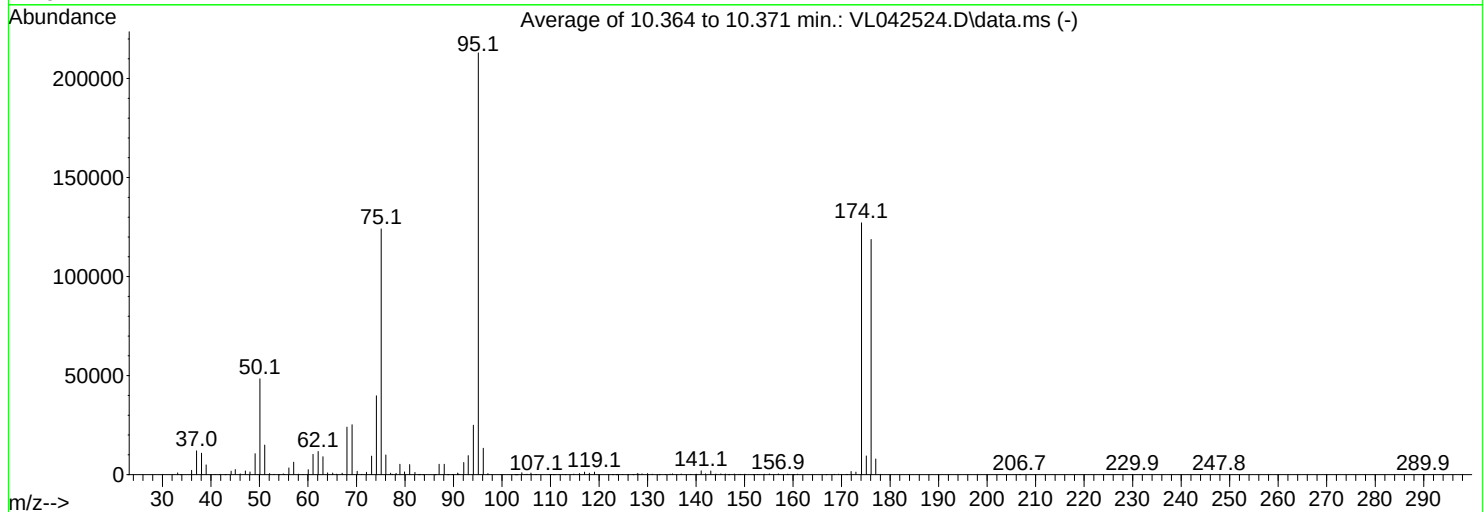
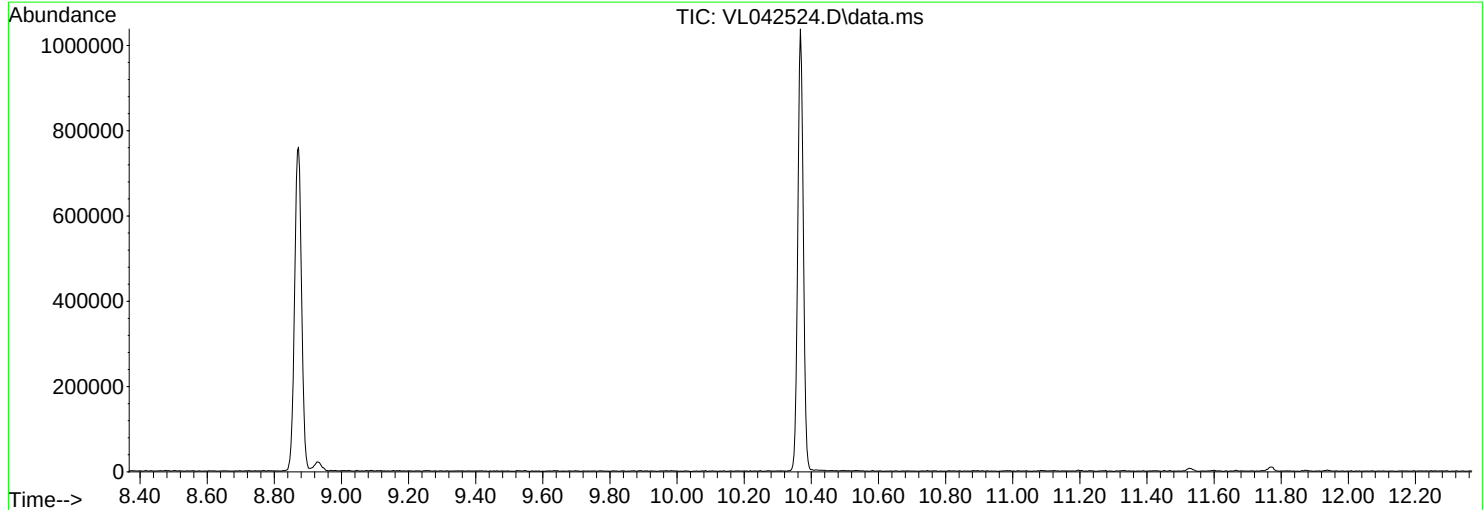
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051225\
Data File : VL042524.D
Acq On : 12 May 2025 07:58
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\VL051225AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Tue May 13 02:07:03 2025



AutoFind: Scans 3175, 3176, 3177; Background Corrected with Scan 3159

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	22.7	48371	PASS
75	95	30	66	58.3	124085	PASS
95	95	100	100	100.0	212971	PASS
96	95	5	9	6.3	13350	PASS
173	174	0.00	2	1.0	1276	PASS
174	95	50	120	59.7	127141	PASS
175	174	4	9	7.4	9432	PASS
176	174	93	101	93.4	118768	PASS
177	176	5	9	6.7	7924	PASS

Average of 10.364 to 10.371 min.: VL042524.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
33.15	868	45.00	2557	55.20	95	65.85	23
33.70	39	46.05	386	56.05	3385	67.05	76
36.00	2167	47.10	1839	57.05	6316	68.05	2397
37.05	12047	48.05	1342	58.05	287	69.10	2519
38.05	10800	49.10	10630	59.00	57	70.15	1666
39.00	4939	50.10	48371	60.05	2504	71.10	140
39.95	104	51.10	14914	61.05	10298	72.05	1243
40.85	57	52.10	608	62.10	11719	73.10	9363
41.85	135	53.00	182	63.10	9057	74.10	39824
42.90	31	54.00	32	64.05	890	75.10	124085
44.15	1778	54.90	412	65.10	838	76.05	9975

Average of 10.364 to 10.371 min.: VL042524.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
77.05	752	87.05	5236	97.10	611	109.85	70
77.40	137	88.10	5237	99.80	50	110.20	83
78.15	629	88.80	28	102.70	40	110.60	38
78.95	5264	89.80	40	102.90	39	111.05	95
79.90	1363	90.85	809	103.10	21	111.75	118
80.95	5062	91.10	297	104.10	977	112.55	148
82.05	1164	92.10	6139	104.75	111	113.00	37
82.80	30	93.05	9614	105.15	252	114.80	282
83.20	164	94.10	24992	105.95	832	115.95	562
83.70	37	95.10	212971	106.85	107	117.00	1265
86.20	44	96.15	13350	107.10	110	118.00	762

Average of 10.364 to 10.371 min.: VL042524.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
119.05	1319	130.00	547	141.95	384	151.80	24
121.90	49	130.95	252	143.05	1855	152.05	63
122.80	31	132.40	24	144.10	364	152.65	109
123.50	40	133.65	63	145.10	399	153.00	112
123.80	139	134.65	258	146.05	353	154.05	247
124.90	89	135.15	380	146.70	29	155.10	393
125.90	17	135.95	104	146.90	130	156.95	440
127.00	18	136.95	359	147.90	332	158.85	237
127.90	569	138.90	182	148.85	144	159.10	85
128.20	348	140.05	255	149.20	149	160.10	19
128.85	429	141.05	1965	150.05	234	160.90	266

Average of 10.364 to 10.371 min.: VL042524.D\data.ms

BFB

Modified:subtracted

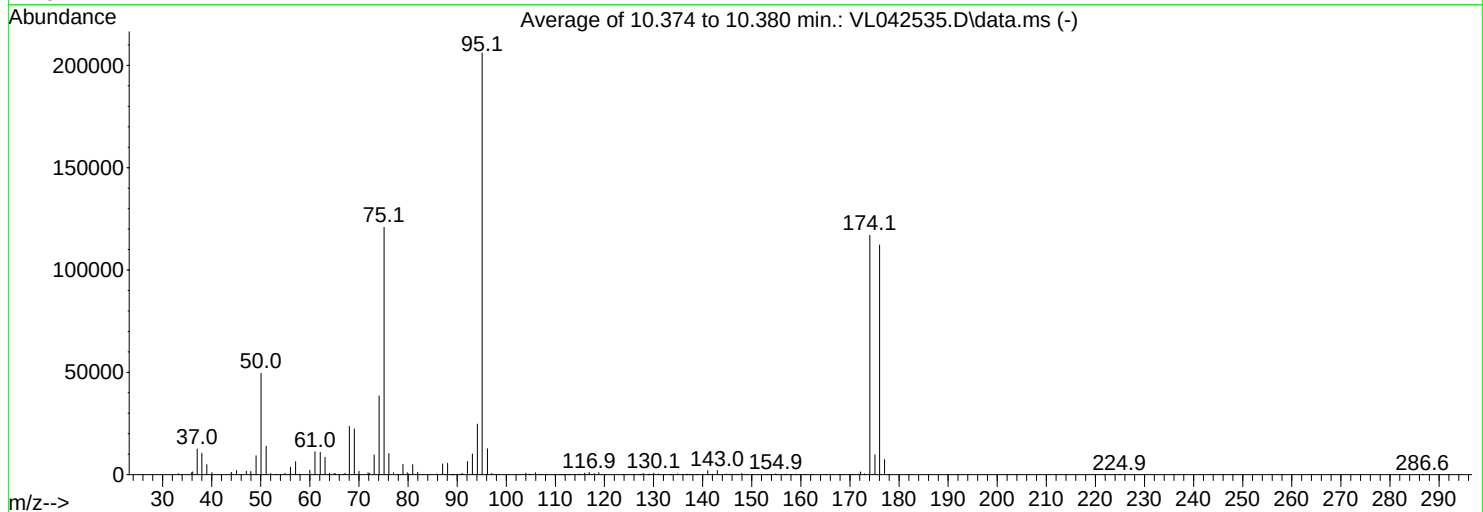
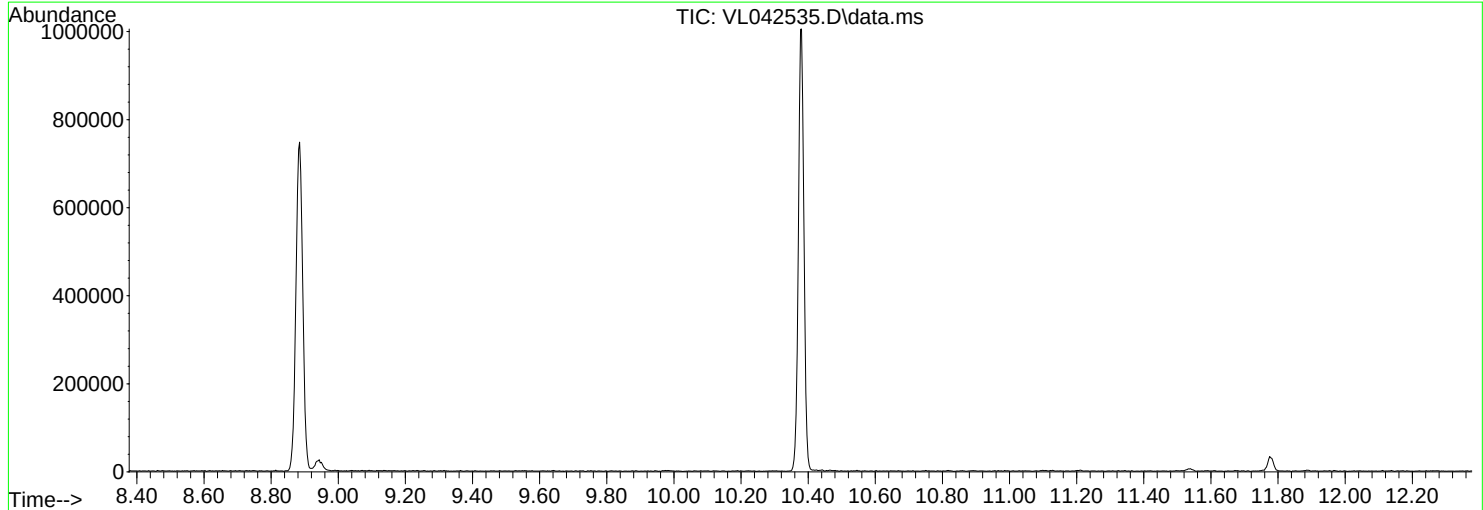
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
166.80	42	177.05	7924				
168.50	151	178.00	150				
169.35	220	206.70	26				
170.00	83	229.95	84				
170.95	194	247.85	96				
171.20	124	289.90	39				
171.95	1635						
172.95	1276						
174.10	127141						
175.10	9432						
176.10	118768						

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051425\
Data File : VL042535.D
Acq On : 14 May 2025 09:38
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\VL051225AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Tue May 13 02:07:03 2025



AutoFind: Scans 3178, 3179, 3180; Background Corrected with Scan 3165

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	8	40	24.0	49571	PASS
75	95	30	66	58.7	120923	PASS
95	95	100	100	100.0	206144	PASS
96	95	5	9	6.1	12656	PASS
173	174	0.00	2	0.3	380	PASS
174	95	50	120	56.7	116965	PASS
175	174	4	9	8.3	9688	PASS
176	174	93	101	95.9	112221	PASS
177	176	5	9	6.6	7384	PASS

Average of 10.374 to 10.380 min.: VL042535.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
33.20	509	45.05	2002	54.95	664	65.80	41
33.75	20	46.05	167	56.05	3620	66.05	24
35.90	920	47.05	1739	57.10	6311	66.90	18
36.15	1326	47.95	1582	57.90	352	67.15	69
37.05	12527	49.05	9223	60.00	2175	68.05	23653
38.00	10489	50.05	49571	61.05	11173	69.05	22405
39.00	4948	51.10	13889	62.10	10894	70.00	1687
40.05	1008	52.05	625	63.10	8527	71.85	925
41.80	24	52.85	103	64.00	697	72.15	646
43.90	286	53.20	138	64.95	562	73.10	9584
44.05	1067	54.00	33	65.20	499	74.10	38464

Average of 10.374 to 10.380 min.: VL042535.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
75.10	120923	87.05	5232	96.15	12656	109.80	35
76.10	10335	88.05	5557	97.05	517	110.15	136
77.05	958	88.90	22	97.95	57	110.90	70
77.80	114	89.20	26	102.80	48	111.10	35
78.95	4993	90.40	108	104.00	823	111.70	43
79.85	962	90.80	155	104.80	229	111.90	129
80.10	416	91.00	605	105.00	97	112.60	65
80.95	4943	92.10	6453	105.95	916	112.80	47
81.95	1211	93.10	10104	106.75	135	114.75	202
83.00	98	94.10	24733	107.20	95	115.00	80
85.90	404	95.10	206144	108.15	36	115.95	659

Average of 10.374 to 10.380 min.: VL042535.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
116.90	1080	127.95	564	136.95	278	145.55	224
117.90	548	128.90	145	137.30	31	146.05	212
118.85	1032	129.15	248	138.80	75	146.90	125
120.10	26	129.80	189	139.05	53	147.95	538
122.90	52	130.05	758	139.90	68	148.90	94
123.70	20	131.00	346	140.10	218	149.90	115
124.65	99	132.00	43	141.05	1978	152.90	49
125.85	41	133.40	29	142.00	231	153.20	59
127.00	59	134.95	383	143.00	2028	153.80	34
127.40	23	135.80	56	144.00	181	154.05	78
127.70	235	136.60	31	144.90	311	154.90	476

Average of 10.374 to 10.380 min.: VL042535.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
155.95	194	166.65	137	175.10	9688		
156.60	37	167.80	29	176.05	112221		
157.15	274	168.60	61	177.05	7384		
157.90	18	170.30	70	177.90	30		
158.35	64	170.50	108	178.10	190		
159.00	246	170.90	85	221.70	27		
159.85	43	171.20	116	224.90	32		
160.60	93	171.70	232	286.65	47		
161.05	130	172.15	1354				
162.10	23	173.00	380				
165.10	24	174.05	116965				

Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	4701 White Plains Rd, Bronx NY	Date Received:	
Client Sample ID:	VL0514ABL01	SDG No.:	Q2037
Lab Sample ID:	VL0514ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042537.D	1		05/14/25 11:09	VL051425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.50			65 - 135	95%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	117000		2.79			
540-36-3	1,4-Difluorobenzene	336000		3.965			
3114-55-4	Chlorobenzene-d5	289000		8.888			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051425\
 Data File : VL042537.D
 Acq On : 14 May 2025 11:09
 Operator : SY/MD
 Sample : VL0514ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0514ABL01

Quant Time: May 15 01:32:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue May 13 02:07:03 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	116915	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	3.965	114	336117	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.888	117	289273	10.000	ppbv	0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	238085	9.459	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.600%

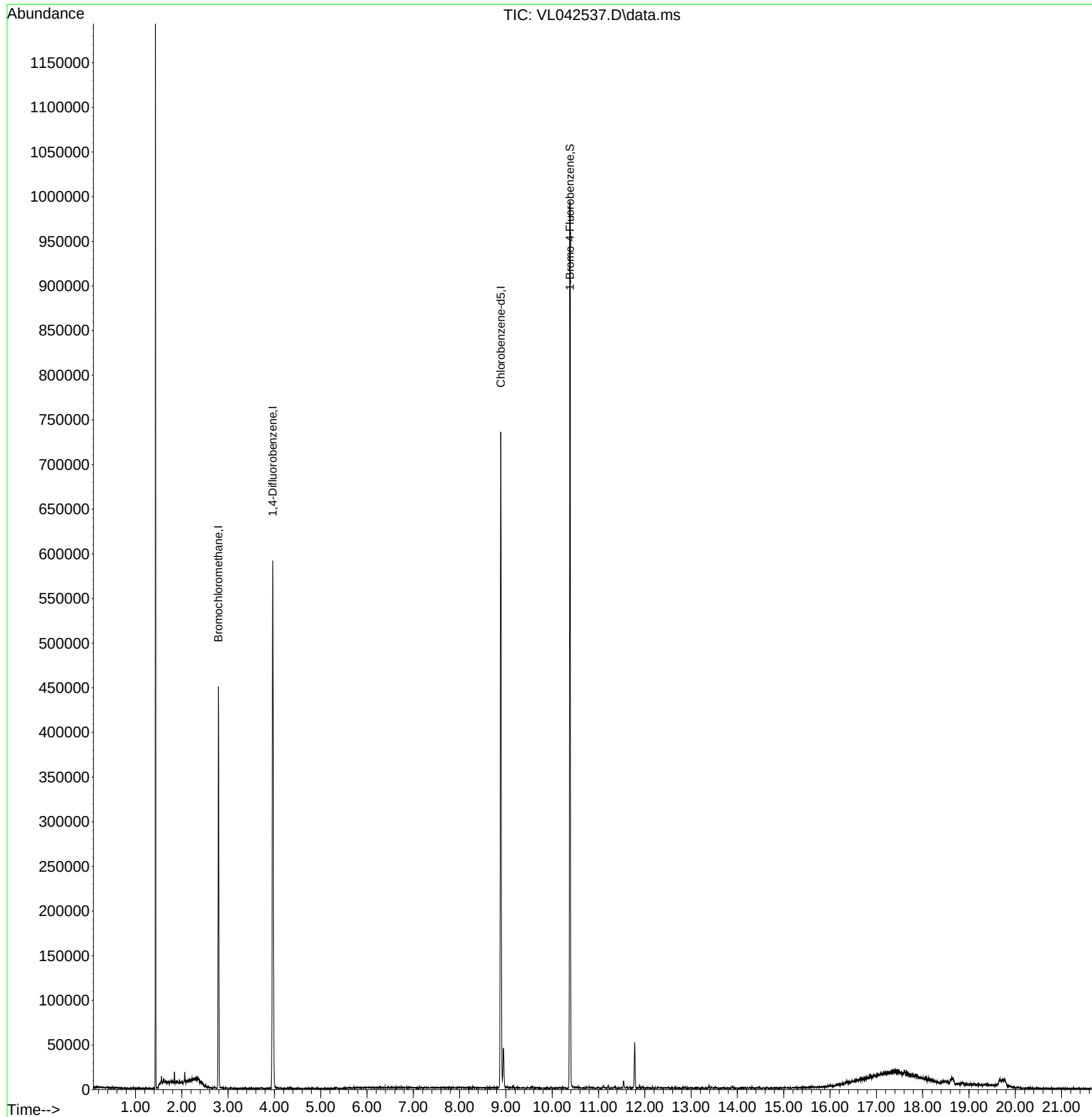
Target Compounds	Qvalue

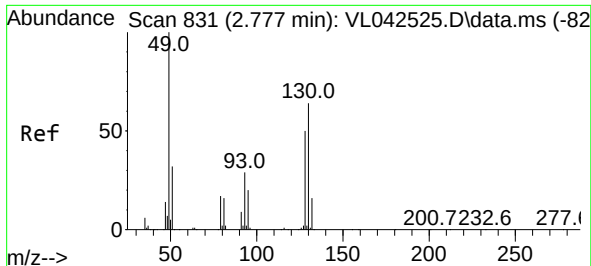
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051425\
Data File : VL042537.D
Acq On : 14 May 2025 11:09
Operator : SY/MD
Sample : VL0514ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0514ABL01

Quant Time: May 15 01:32:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue May 13 02:07:03 2025
Response via : Initial Calibration

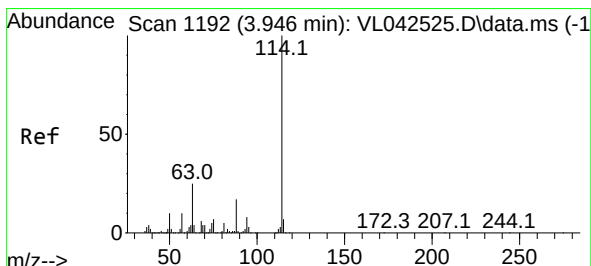
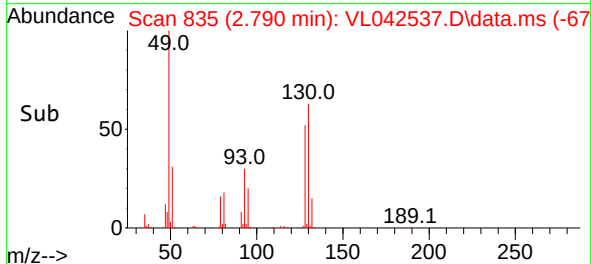
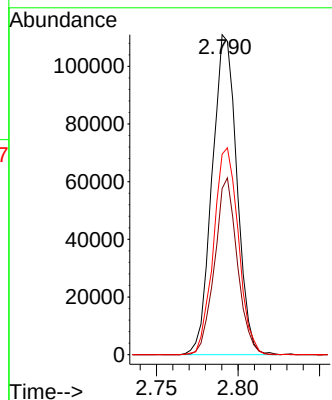
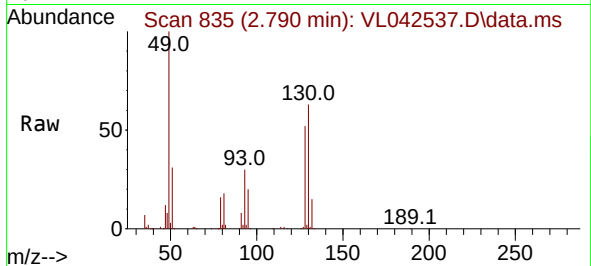




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.013 min
Lab File: VL042537.D
Acq: 14 May 2025 11:09

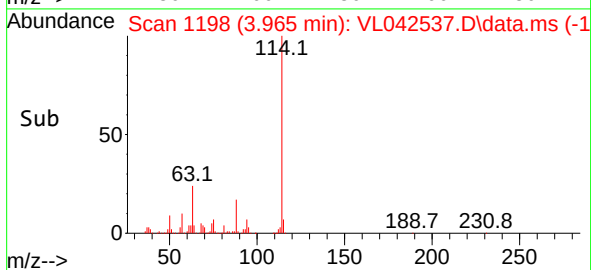
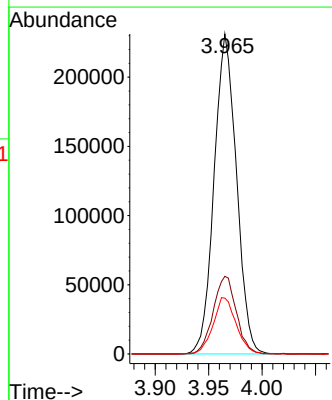
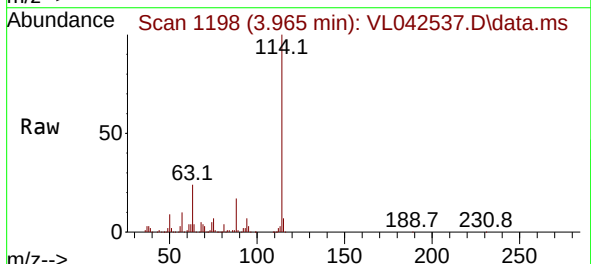
Instrument :
MSVOA_1
ClientSampleId :
VL0514ABL01

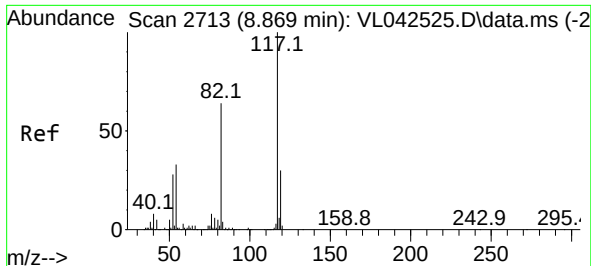
Tgt Ion: 49 Resp: 116915
Ion Ratio Lower Upper
49 100
128 50.8 24.9 74.6
130 65.0 32.5 97.5



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1198
Delta R.T. 0.019 min
Lab File: VL042537.D
Acq: 14 May 2025 11:09

Tgt Ion: 114 Resp: 336117
Ion Ratio Lower Upper
114 100
63 25.2 20.4 30.6
88 18.1 14.5 21.7

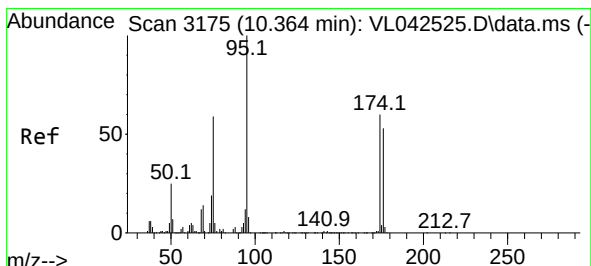
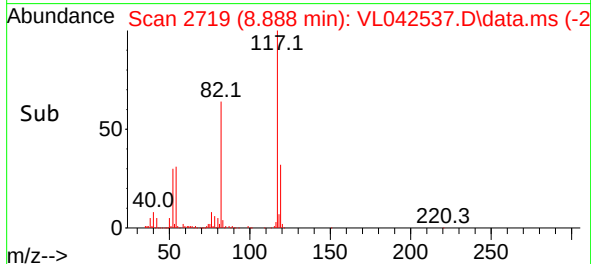
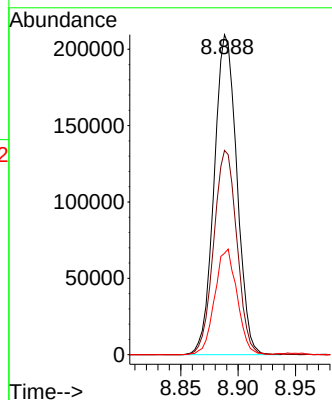
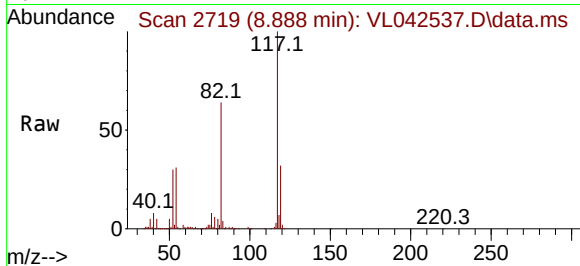




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 21
Delta R.T. 0.019 min
Lab File: VL042537.D
Acq: 14 May 2025 11:09

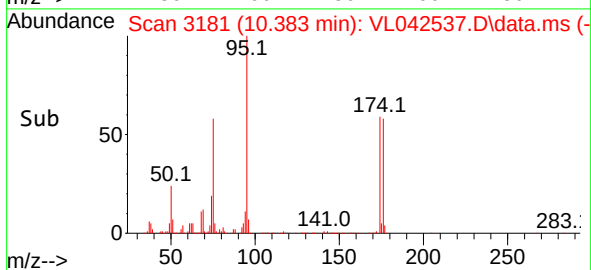
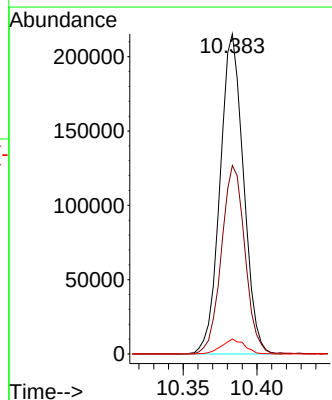
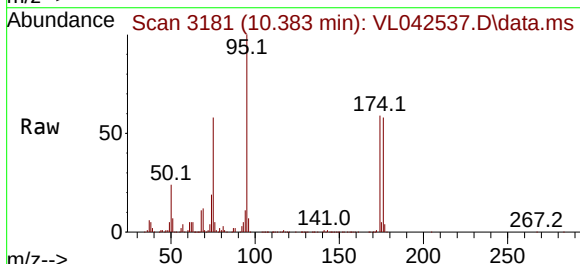
Instrument :
MSVOA_L
ClientSampleId :
VL0514ABL01

Tgt Ion:117 Resp: 289273
Ion Ratio Lower Upper
117 100
82 65.1 55.0 82.4
119 32.5 25.8 38.6



#68
1-Bromo-4-Fluorobenzene
Concen: 9.459 ppbv
RT: 10.383 min Scan# 3181
Delta R.T. 0.019 min
Lab File: VL042537.D
Acq: 14 May 2025 11:09

Tgt Ion: 95 Resp: 238085
Ion Ratio Lower Upper
95 100
174 59.4 48.0 72.0
175 4.6 3.5 5.3



Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	4701 White Plains Rd, Bronx NY	Date Received:	
Client Sample ID:	VL0514ABS01	SDG No.:	Q2037
Lab Sample ID:	VL0514ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042538.D	1		05/14/25 11:53	VL051425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	8.60	22.0		0.030	0.080	ug/m3
75-35-4	1,1-Dichloroethene	10.0	39.6		0.56	1.98	ug/m3
156-59-2	cis-1,2-Dichloroethene	9.60	38.1		0.36	1.98	ug/m3
71-55-6	1,1,1-Trichloroethane	8.90	48.6		0.050	0.16	ug/m3
79-01-6	Trichloroethene	9.30	50.0		0.11	0.16	ug/m3
127-18-4	Tetrachloroethene	9.00	61.0		0.14	0.20	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.1			65 - 135	101%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	117000		2.79			
540-36-3	1,4-Difluorobenzene	343000		3.962			
3114-55-4	Chlorobenzene-d5	296000		8.885			

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\VL051425\
 Data File : VL042538.D
 Acq On : 14 May 2025 11:53
 Operator : SY/MD
 Sample : VL0514ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0514ABS01

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 05/15/2025
 Supervised By : Mahesh Dadoda 05/15/2025

Quant Time: May 15 01:32:42 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M

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

QLast Update : Tue May 13 02:07:03 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	116911	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	3.962	114	342869	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.885	117	296340	10.000	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 260716 10.111 ppbv 0.02
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.100%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	177349	9.342	ppbv	98
3) Chlorodifluoromethane	1.476	51	171430	8.861	ppbv	100
4) Chloromethane	1.534	50	69630	8.987	ppbv	100
5) Vinyl Chloride	1.580	62	68261	8.610	ppbv	94
6) Bromomethane	1.667	94	37101	9.854	ppbv	94
7) Chloroethane	1.706	64	28035	8.956	ppbv	97
8) Dichlorotetrafluoroethane	1.554	85	146902	8.993	ppbv	100
9) Propene	1.486	41	58217	13.876	ppbv #	1
10) Heptane	4.981	43	171029	10.667	ppbv	97
11) Trichlorofluoromethane	1.877	101	183595	10.054	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.140	101	148178	10.103	ppbv	100
13) Ethanol	1.722	45	8751	7.754	ppbv	98
14) Bromoethene	1.784	108	51275	9.589	ppbv	99
15) Acetone	1.835	43	152999	8.119	ppbv	99
16) 1,3-Butadiene	1.609	39	76378	9.092	ppbv	97
17) tert-Butyl alcohol	2.039	59	172075	9.968	ppbv	99
18) 1,1-Dichloroethene	2.036	96	63992	9.955	ppbv	99
19) Isopropyl Alcohol	1.887	45	97672	9.624	ppbv	100
20) Methylene Chloride	2.062	84	56851	8.739	ppbv	96
21) Allyl Chloride	2.098	41	120871	9.772	ppbv	96
22) trans-1,2-Dichloroethene	2.340	96	72704	9.669	ppbv	95
23) Vinyl Acetate	2.463	43	184141	9.415	ppbv #	98
24) 1,1-Dichloroethane	2.408	63	146965	10.102	ppbv	98
25) Ethyl Acetate	2.836	43	312927	9.540	ppbv	100
26) Hexane	2.829	57	138195	10.262	ppbv	97
27) Carbon Disulfide	2.153	76	181278	10.428	ppbv	95
28) Methyl tert-Butyl Ether	2.441	73	84826	11.338	ppbv	97
29) Chloroform	2.852	83	247796	8.872	ppbv	99
30) Cyclohexane	3.858	84	119963	10.850	ppbv	97
31) cis-1,2-Dichloroethene	2.722	61	145273	9.553	ppbv	95
32) 1,1,1-Trichloroethane	3.370	97	255956	8.881	ppbv	99
34) 2-Butanone	2.557	43	197074	8.720	ppbv	98
35) Carbon Tetrachloride	3.768	117	277335	8.997	ppbv	98
36) Benzene	3.661	78	293547	9.661	ppbv	99
37) 1,2-Dichloroethane	3.221	62	193600	8.932	ppbv	100
38) Trichloroethene	4.551	130	122351	9.261	ppbv	97
39) 1,2-Dichloropropane	4.315	63	103541	9.148	ppbv	88
40) 1,4-Dioxane	4.583	88	47286	10.292	ppbv #	99
41) Tetrahydrofuran	3.056	42	101765	10.403	ppbv	98
42) Bromodichloromethane	4.493	83	263548	9.111	ppbv	98
43) Methyl Methacrylate	4.884	69	106126	10.429	ppbv	99
44) 2,2,4-Trimethylpentane	4.645	57	476041	9.887	ppbv	99
45) t-1,3-Dichloropropene	6.418	75	132911	10.223	ppbv	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051425\
 Data File : VL042538.D
 Acq On : 14 May 2025 11:53
 Operator : SY/MD
 Sample : VL0514ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0514ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/15/2025
 Supervised By :Mahesh Dadoda 05/15/2025

Quant Time: May 15 01:32:42 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M

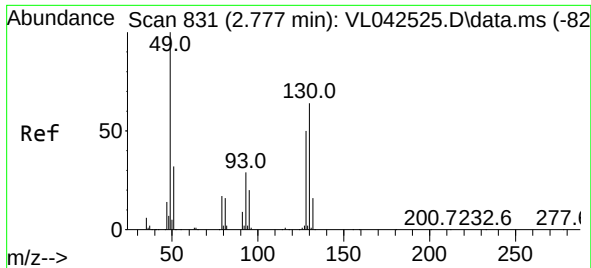
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Tue May 13 02:07:03 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.606	75	160141	10.239	ppbv	92
47) 1,1,2-Trichloroethane	6.587	97	119517	8.967	ppbv	97
48) Dibromochloromethane	7.389	129	215320	9.676	ppbv	98
49) Bromoform	9.487	173	177871	9.740	ppbv	98
50) 4-Methyl-2-Pentanone	5.755	43	268277	10.107	ppbv	99
51) 2-Hexanone	7.438	43	221041	11.195	ppbv #	99
52) Tetrachloroethene	8.228	164	104385	8.979	ppbv	91
53) Toluene	6.940	91	320104	10.735	ppbv	100
54) 1,2-Dibromoethane	7.658	107	181316	9.315	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.930	131	166531	9.064	ppbv	98
57) Chlorobenzene	8.924	112	275176	9.248	ppbv	99
58) Ethyl Benzene	9.357	91	466684	11.554	ppbv	94
59) m/p-Xylene	9.555	91	794877m	22.159	ppbv	
60) o-Xylene	9.969	91	395533	11.290	ppbv	100
61) Styrene	9.875	104	152625	11.763	ppbv	98
62) Isopropylbenzene	10.542	105	572300	10.847	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.966	83	248344	8.734	ppbv	99
64) n-propylbenzene	10.992	120	149437	11.156	ppbv	100
65) tert-Butylbenzene	11.532	119	527031	10.878	ppbv	100
66) Benzyl Chloride	11.617	91	67242	10.445	ppbv	99
67) sec-Butylbenzene	11.772	105	733606	10.561	ppbv	100
69) p-Isopropyltoluene	11.927	119	635567	11.129	ppbv	99
70) n-Butylbenzene	12.283	91	632577	11.210	ppbv	100
71) 2-Chlorotoluene	10.904	91	439880	11.010	ppbv	99
72) 4-Ethyltoluene	11.128	105	496655	11.428	ppbv	100
73) 1,3,5-Trimethylbenzene	11.205	105	415787	10.984	ppbv	97
74) 1,2,4-Trimethylbenzene	11.539	105	471038	10.114	ppbv	91
75) 1,3-Dichlorobenzene	11.610	146	282203	9.675	ppbv	100
76) 1,4-Dichlorobenzene	11.675	146	274722	9.900	ppbv	98
77) 1,2-Dichlorobenzene	11.950	146	269587	8.948	ppbv	99
78) Hexachloro-1,3-Butadiene	13.882	225	219747	8.506	ppbv	99
79) Naphthalene	13.513	128	437553	13.557	ppbv	98
80) Naphthalene,2-methyl-	14.458	142	278888	14.972	ppbv	99
81) 1,2,4-Trichlorobenzene	13.442	180	219152	11.164	ppbv	99

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



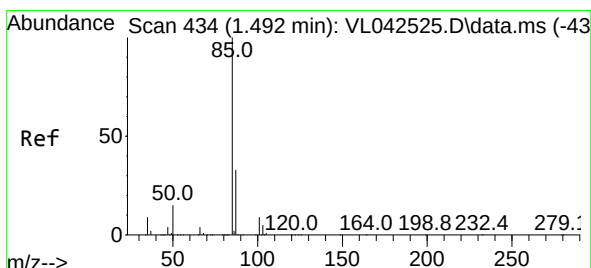
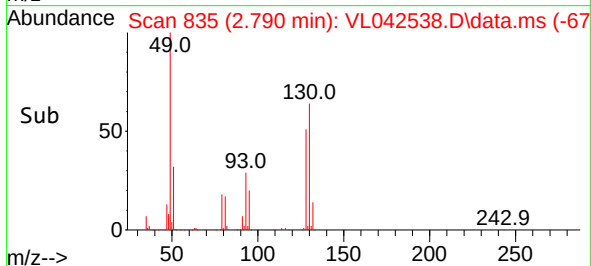
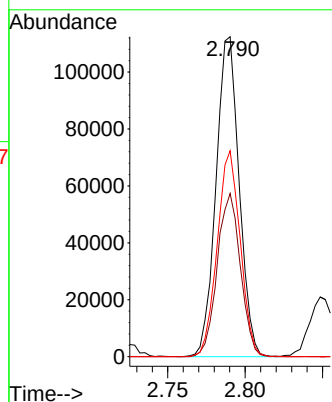
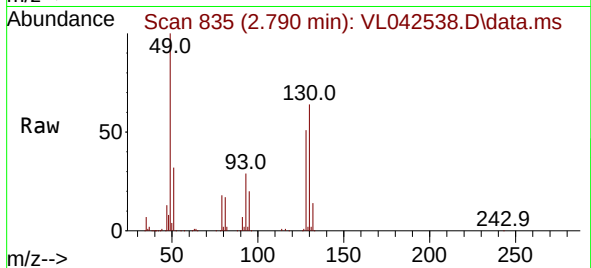
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 831
Delta R.T. 0.013 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

Instrument :
MSVOA_L
ClientSampleId :
VL0514ABS01

Tgt Ion: 49 Resp: 11691
Ion Ratio Lower Upper
49 100
128 51.1 24.9 74.6
130 63.8 32.5 97.5

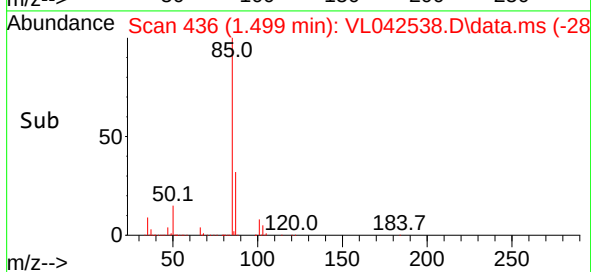
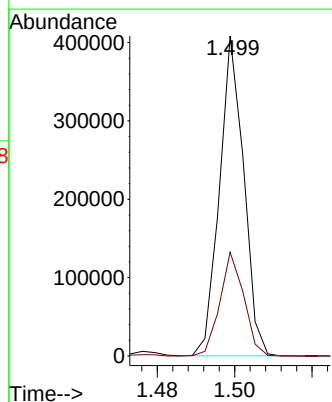
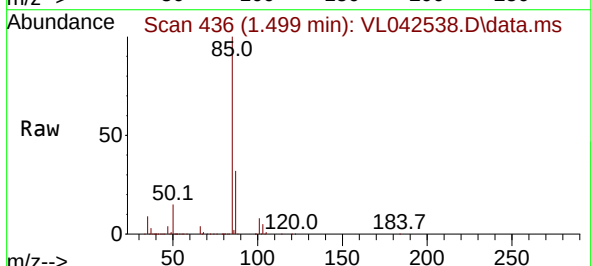
Manual Integrations
APPROVED

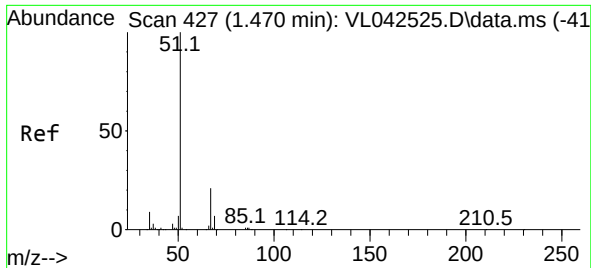
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#2
Dichlorodifluoromethane
Concen: 9.342 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.006 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

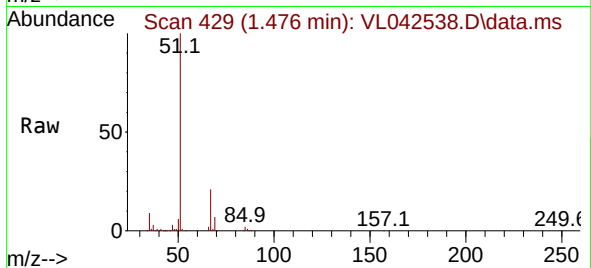
Tgt Ion: 85 Resp: 177349
Ion Ratio Lower Upper
85 100
87 32.4 26.8 40.2





#3
Chlorodifluoromethane
Concen: 8.861 ppbv
RT: 1.476 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

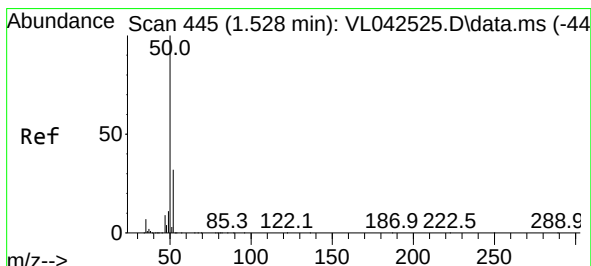
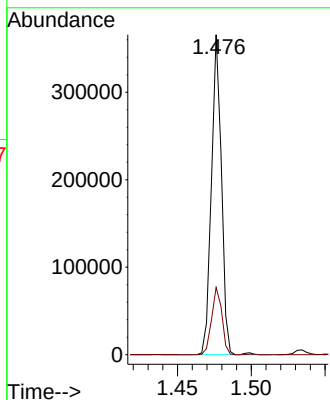
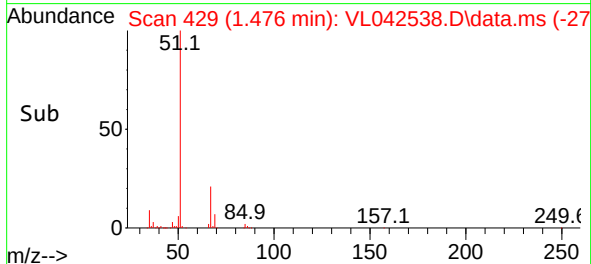
Instrument :
MSVOA_L
ClientSampleId :
VL0514ABS01



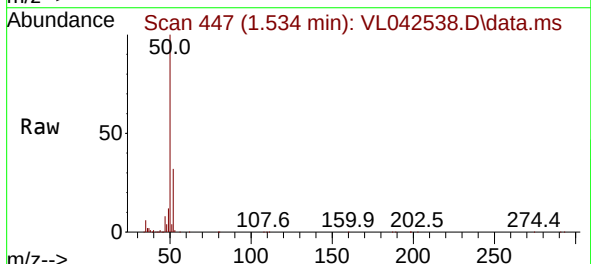
Tgt Ion: 51 Resp: 171430
Ion Ratio Lower Upper
51 100
67 21.7 17.4 26.0

Manual Integrations
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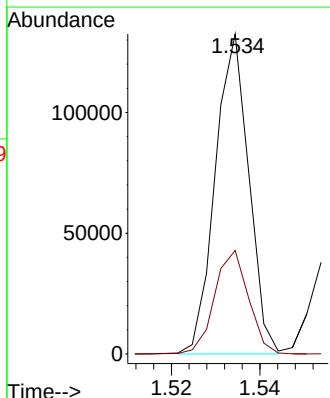
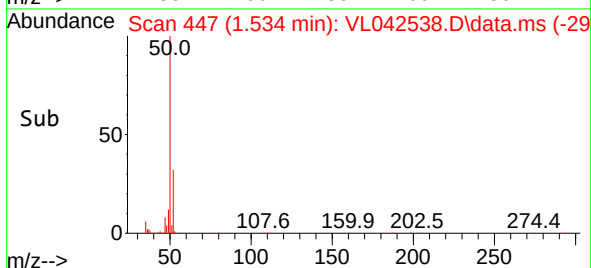
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025

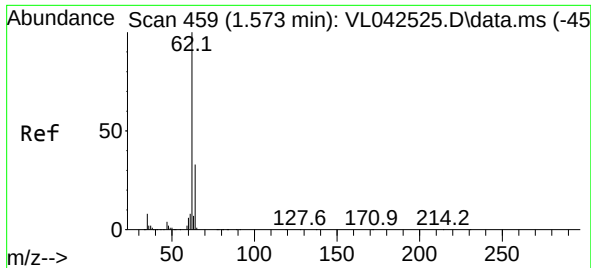


#4
Chloromethane
Concen: 8.987 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.006 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53



Tgt Ion: 50 Resp: 69630
Ion Ratio Lower Upper
50 100
52 32.3 25.9 38.9





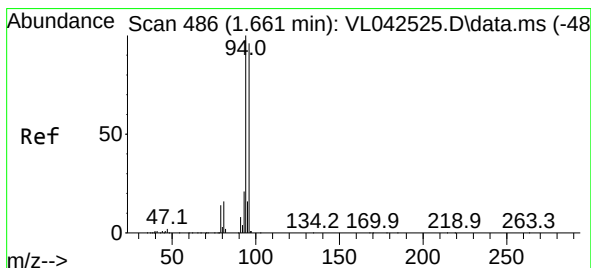
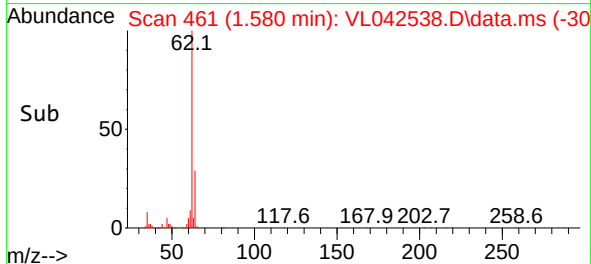
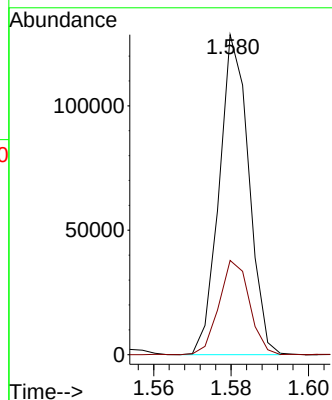
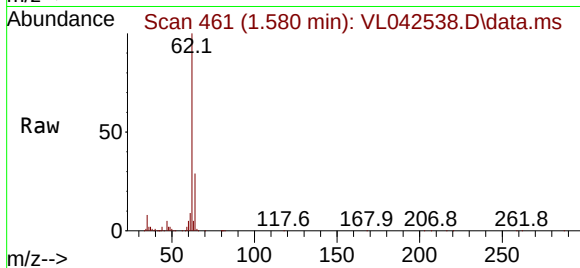
#5
 Vinyl Chloride
 Concen: 8.610 ppbv
 RT: 1.580 min Scan# 459
 Delta R.T. 0.006 min
 Lab File: VL042538.D
 Acq: 14 May 2025 11:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0514ABS01

Tgt Ion: 62 Resp: 6826
 Ion Ratio Lower Upper
 62 100
 64 29.4 26.5 39.7

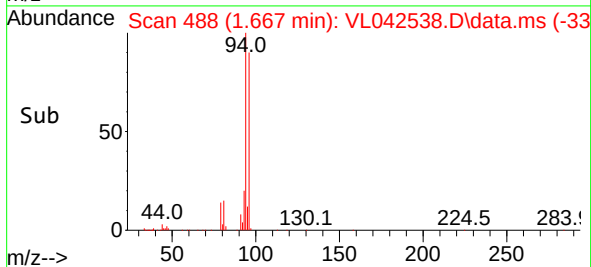
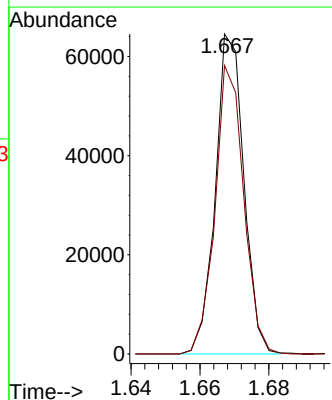
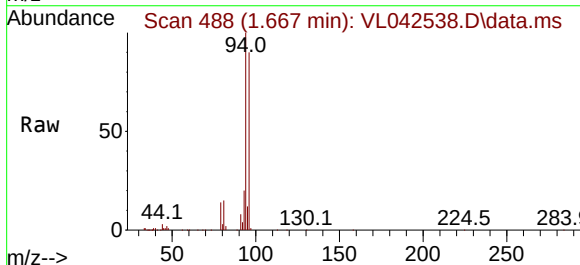
Manual Integrations
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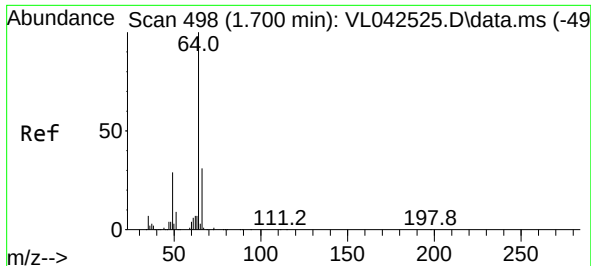
Reviewed By :Semsettin Yesilyurt 05/15/2025
 Supervised By :Mahesh Dadoda 05/15/2025



#6
 Bromomethane
 Concen: 9.854 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. 0.006 min
 Lab File: VL042538.D
 Acq: 14 May 2025 11:53

Tgt Ion: 94 Resp: 37101
 Ion Ratio Lower Upper
 94 100
 96 90.2 76.9 115.3





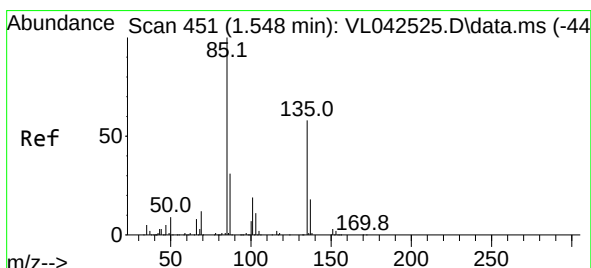
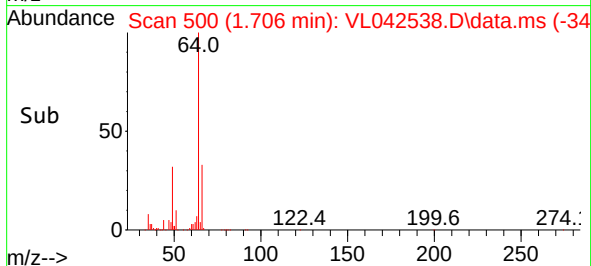
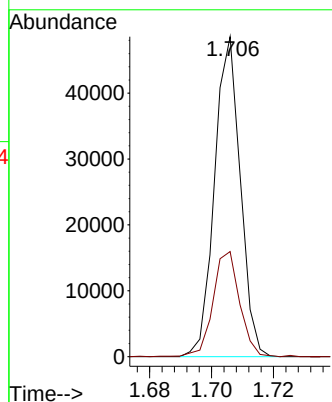
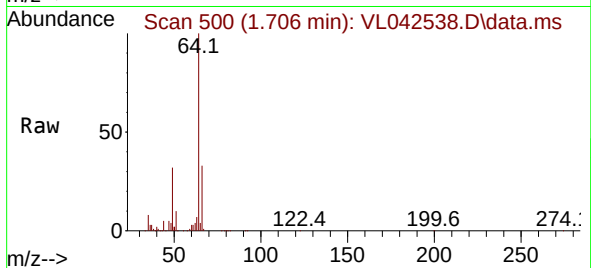
#7
Chloroethane
Concen: 8.956 ppbv
RT: 1.706 min Scan# 501
Delta R.T. 0.006 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

Instrument :
MSVOA_L
ClientSampleId :
VL0514ABS01

Tgt Ion: 64 Resp: 28035
Ion Ratio Lower Upper
64 100
66 32.9 25.1 37.7

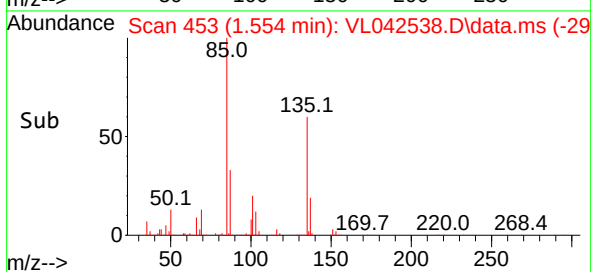
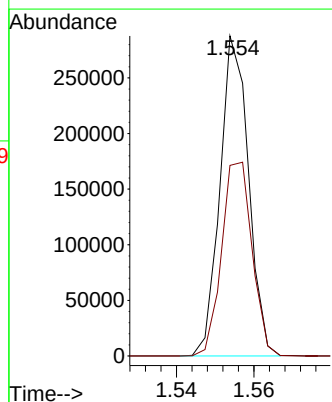
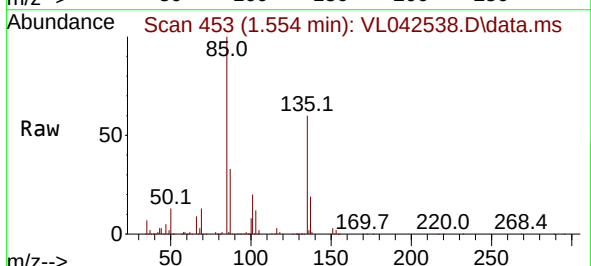
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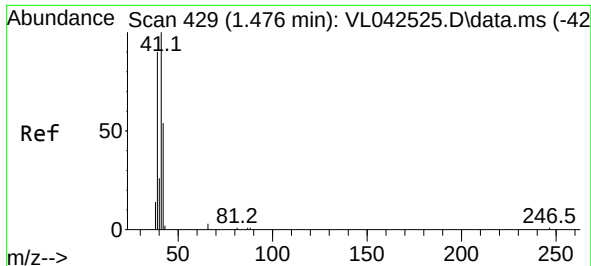
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#8
Dichlorotetrafluoroethane
Concen: 8.993 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.006 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

Tgt Ion: 85 Resp: 146902
Ion Ratio Lower Upper
85 100
135 64.8 51.8 77.8





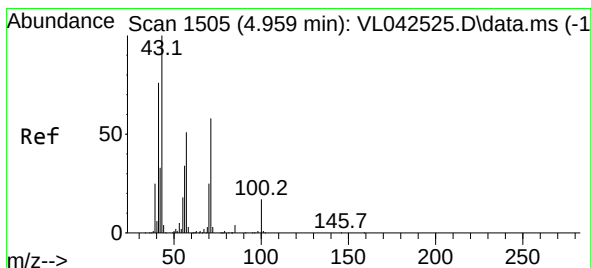
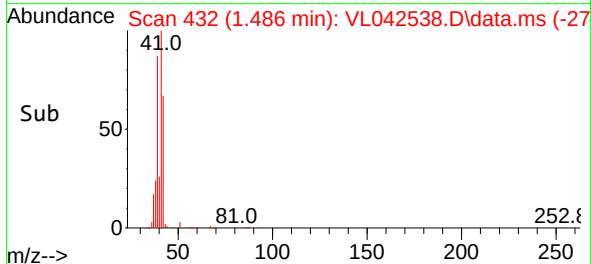
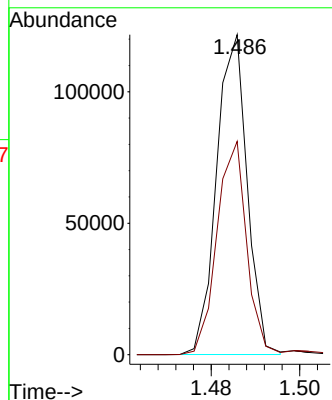
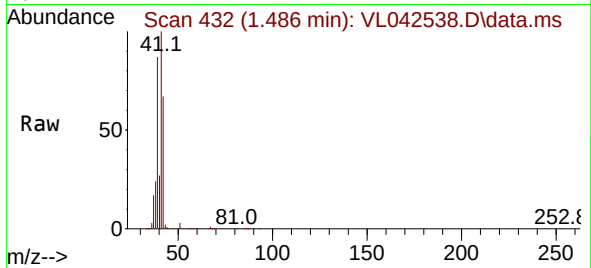
#9
 Propene
 Concen: 13.876 ppbv
 RT: 1.486 min Scan# 41
 Delta R.T. 0.010 min
 Lab File: VL042538.D
 Acq: 14 May 2025 11:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0514ABS01

Tgt Ion: 41 Resp: 5821
 Ion Ratio Lower Upper
 41 100
 42 66.8 4.1 6.1

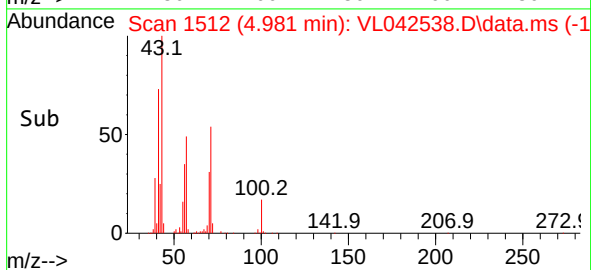
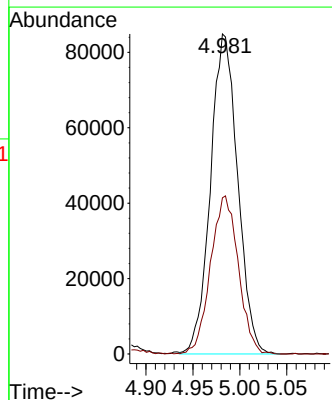
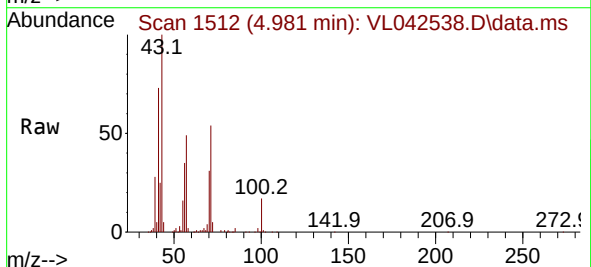
Manual Integrations
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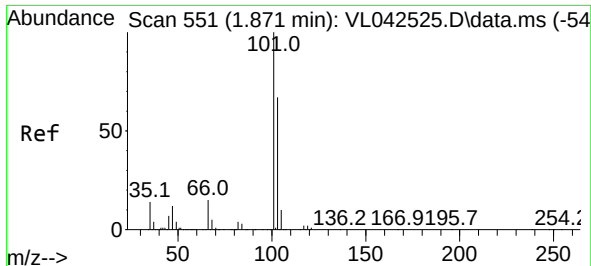
Reviewed By :Semsettin Yesilyurt 05/15/2025
 Supervised By :Mahesh Dadoda 05/15/2025



#10
 Heptane
 Concen: 10.667 ppbv
 RT: 4.981 min Scan# 1512
 Delta R.T. 0.022 min
 Lab File: VL042538.D
 Acq: 14 May 2025 11:53

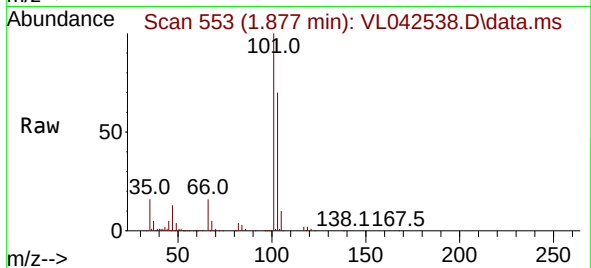
Tgt Ion: 43 Resp: 171029
 Ion Ratio Lower Upper
 43 100
 57 50.3 42.1 63.1





#11
 Trichlorofluoromethane
 Concen: 10.054 ppbv
 RT: 1.877 min Scan# 511
 Delta R.T. 0.006 min
 Lab File: VL042538.D
 Acq: 14 May 2025 11:53

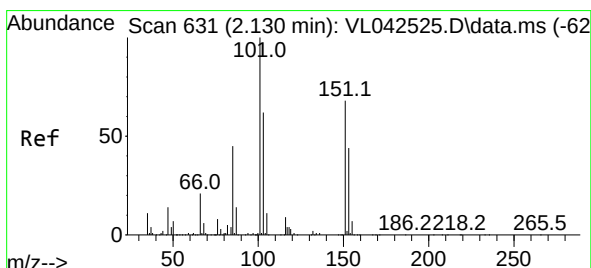
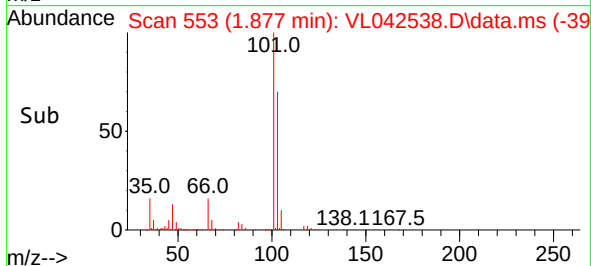
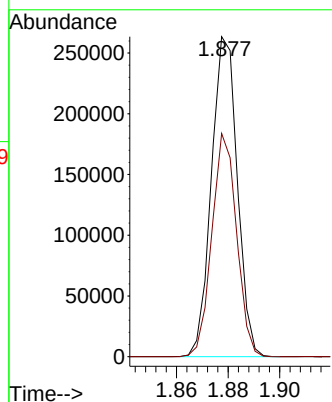
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0514ABS01



Tgt Ion:101 Resp: 183598
 Ion Ratio Lower Upper
 101 100
 103 69.8 53.8 80.6

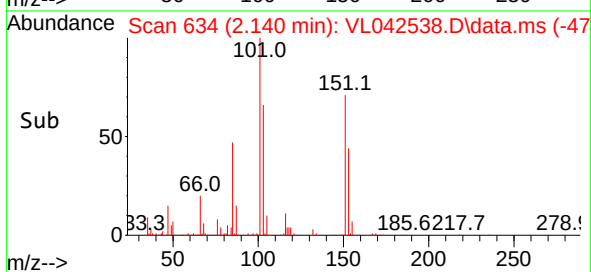
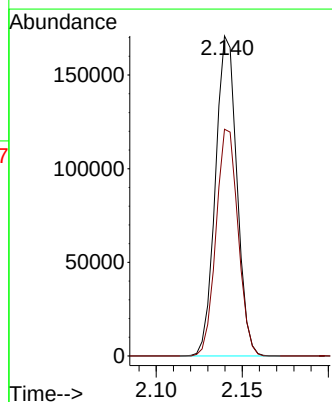
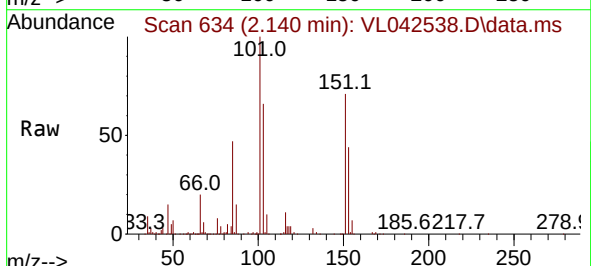
Manual Integrations
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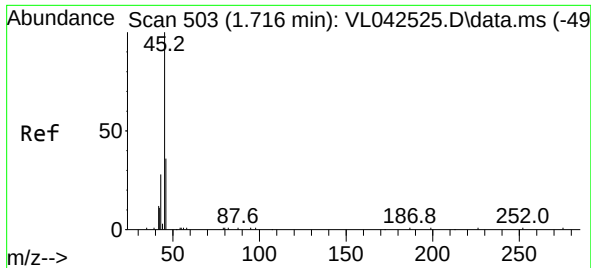
Reviewed By :Semsettin Yesilyurt 05/15/2025
 Supervised By :Mahesh Dadoda 05/15/2025



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 10.103 ppbv
 RT: 2.140 min Scan# 634
 Delta R.T. 0.010 min
 Lab File: VL042538.D
 Acq: 14 May 2025 11:53

Tgt Ion:101 Resp: 148178
 Ion Ratio Lower Upper
 101 100
 151 72.6 57.8 86.8





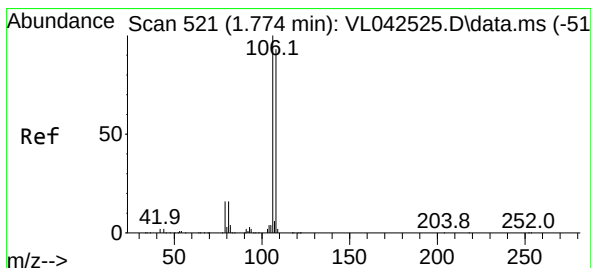
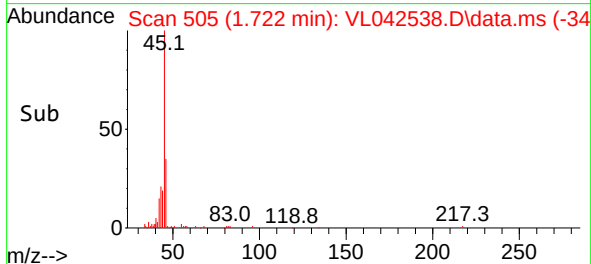
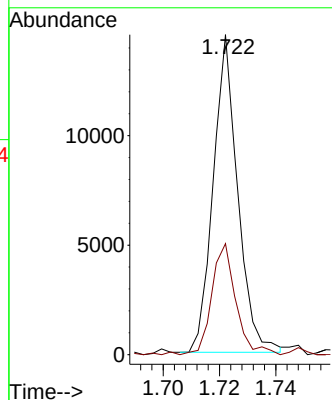
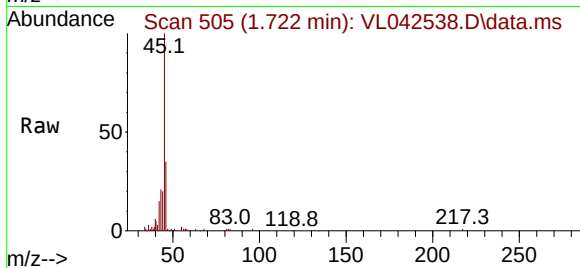
#13
Ethanol
Concen: 7.754 ppbv
RT: 1.722 min Scan# 503
Delta R.T. 0.006 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

Instrument :
MSVOA_L
ClientSampleId :
VL0514ABS01

Tgt Ion: 45 Resp: 875
Ion Ratio Lower Upper
45 100
46 36.1 14.8 59.4

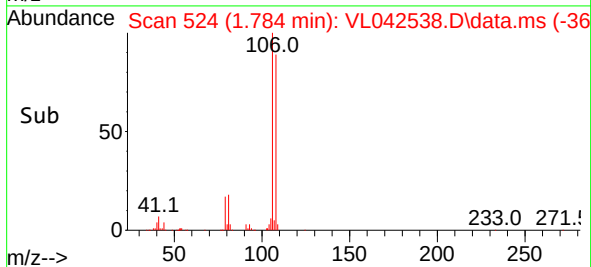
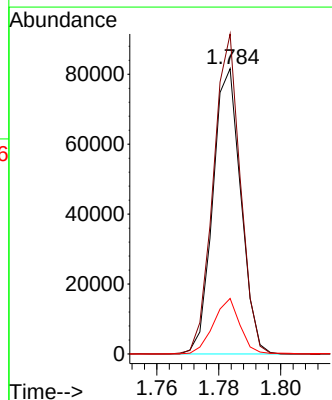
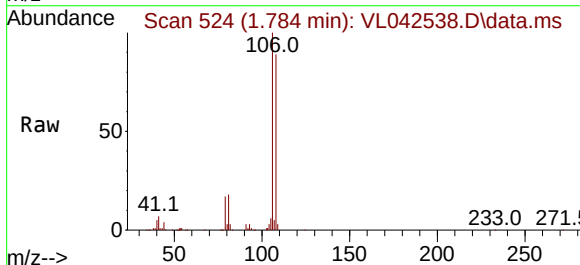
Manual Integrations
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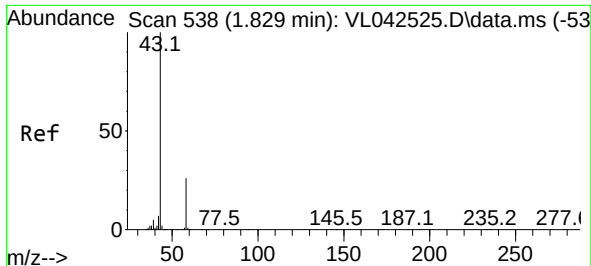
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#14
Bromoethene
Concen: 9.589 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.010 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

Tgt Ion:108 Resp: 51275
Ion Ratio Lower Upper
108 100
106 108.1 87.4 131.2
79 19.0 15.1 22.7





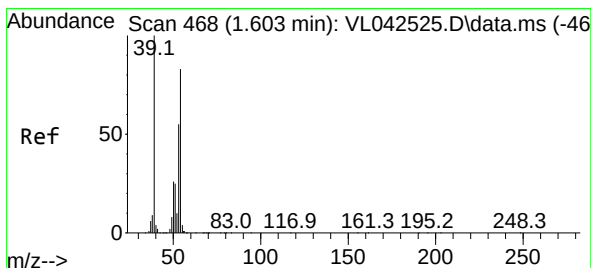
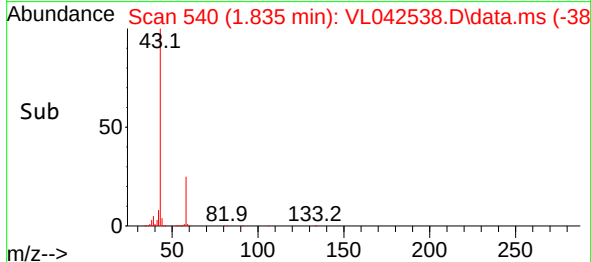
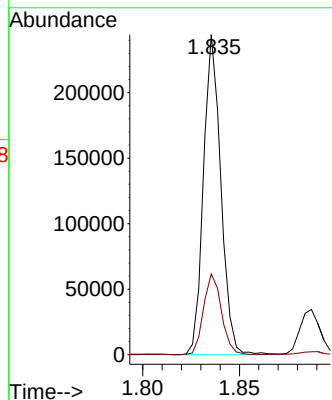
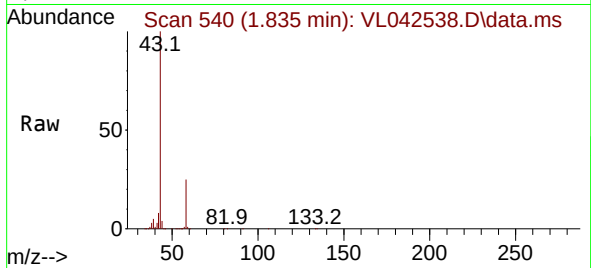
#15
Acetone
Concen: 8.119 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.006 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

Instrument :
MSVOA_L
ClientSampleId :
VL0514ABS01

Tgt Ion: 43 Resp: 152999
Ion Ratio Lower Upper
43 100
58 26.2 21.3 31.9

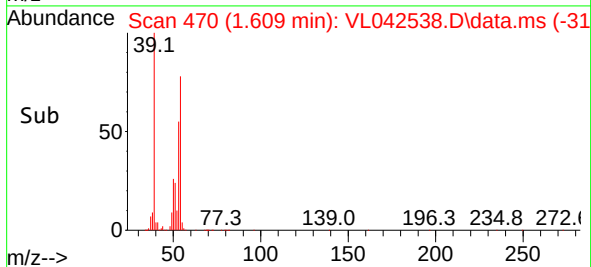
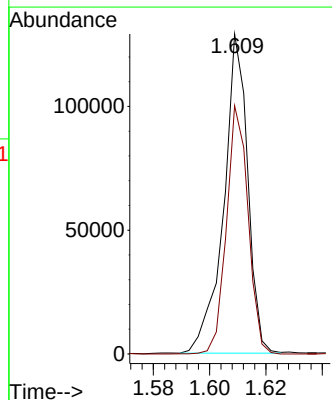
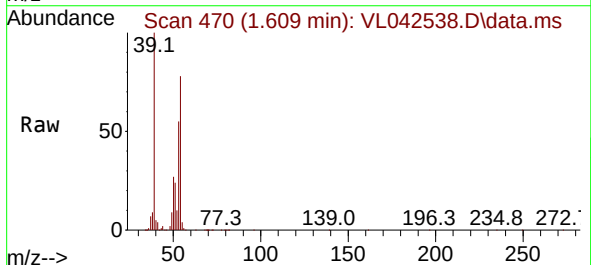
Manual Integrations
APPROVED

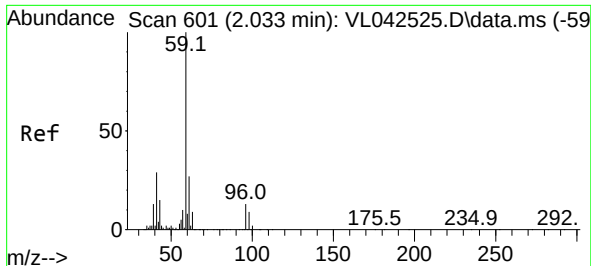
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#16
1,3-Butadiene
Concen: 9.092 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.006 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

Tgt Ion: 39 Resp: 76378
Ion Ratio Lower Upper
39 100
54 70.0 57.8 86.6





#17

tert-Butyl alcohol

Concen: 9.968 ppbv

RT: 2.039 min Scan# 601

Delta R.T. 0.006 min

Lab File: VL042538.D

Acq: 14 May 2025 11:53

Instrument :

MSVOA_L

ClientSampleId :

VL0514ABS01

Tgt Ion: 59 Resp: 172079

Ion Ratio Lower Upper

59 100

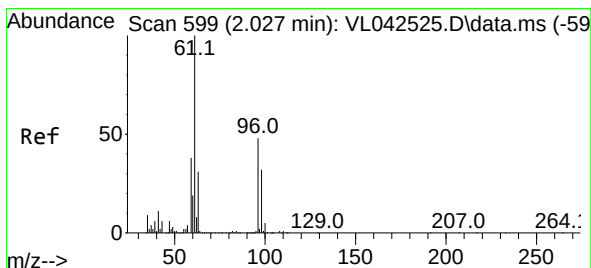
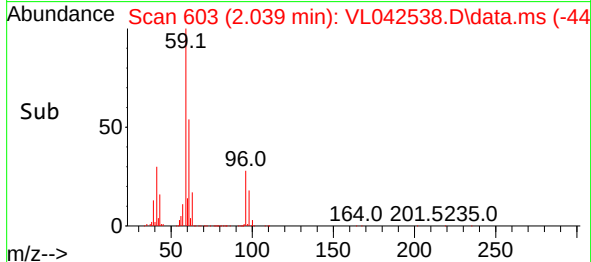
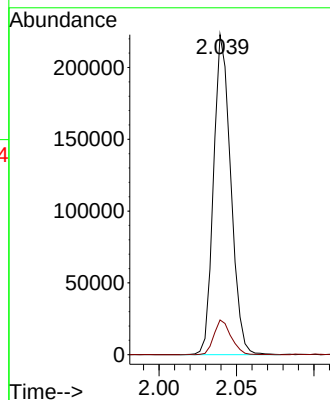
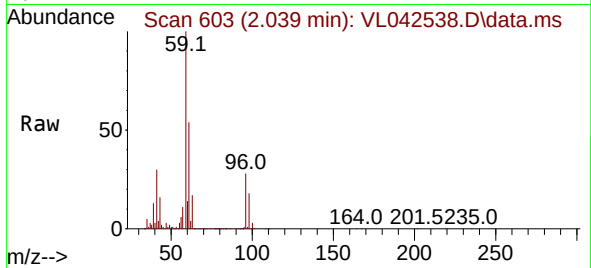
57 10.8 8.2 12.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/15/2025

Supervised By :Mahesh Dadoda 05/15/2025



#18

1,1-Dichloroethene

Concen: 9.955 ppbv

RT: 2.036 min Scan# 602

Delta R.T. 0.010 min

Lab File: VL042538.D

Acq: 14 May 2025 11:53

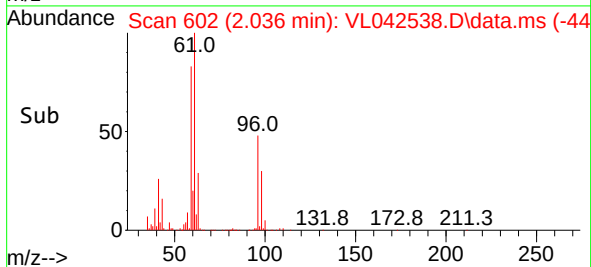
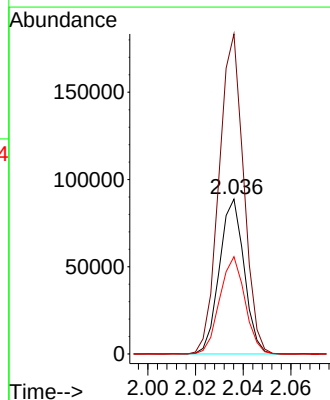
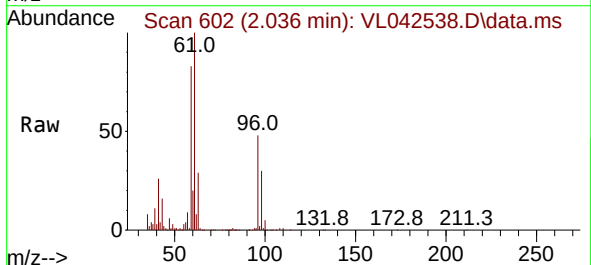
Tgt Ion: 96 Resp: 63992

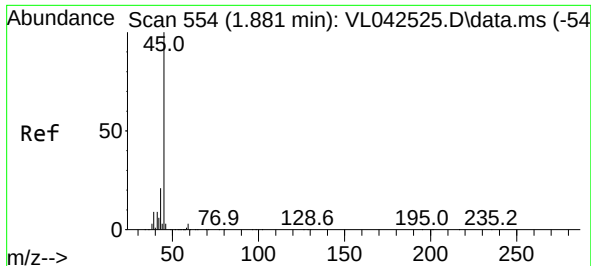
Ion Ratio Lower Upper

96 100

61 206.6 165.0 247.4

98 62.8 52.6 79.0





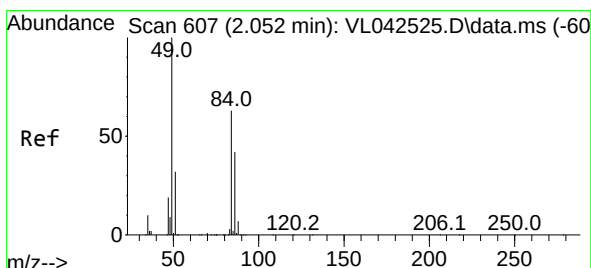
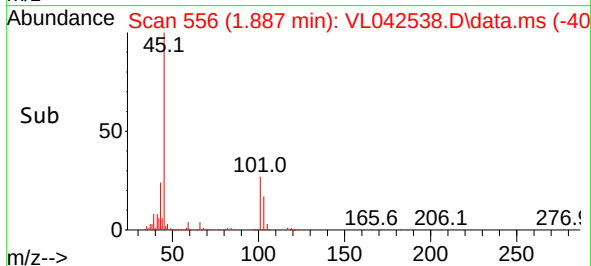
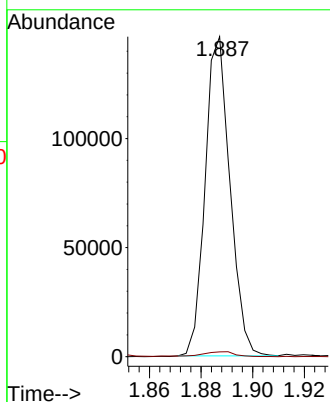
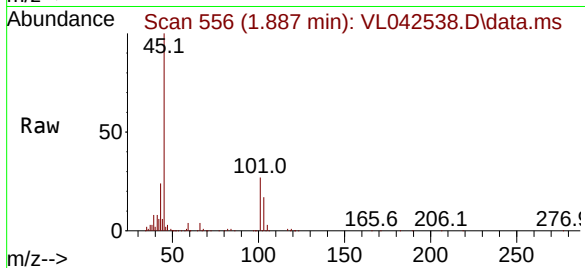
#19
Isopropyl Alcohol
Concen: 9.624 ppbv
RT: 1.887 min Scan# 51
Delta R.T. 0.006 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

Instrument :
MSVOA_L
ClientSampleId :
VL0514ABS01

Tgt Ion: 45 Resp: 97672
Ion Ratio Lower Upper
45 100
58 2.0 1.5 2.3

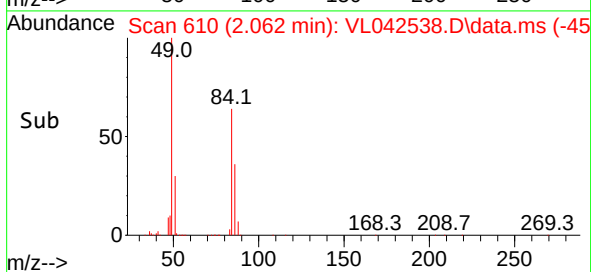
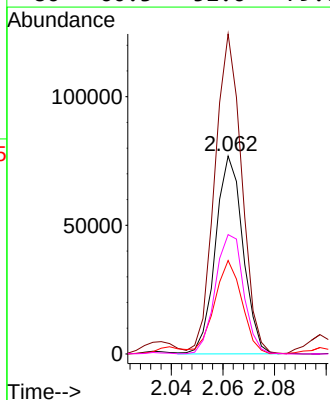
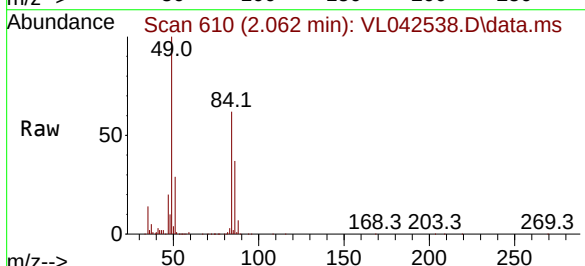
Manual Integrations
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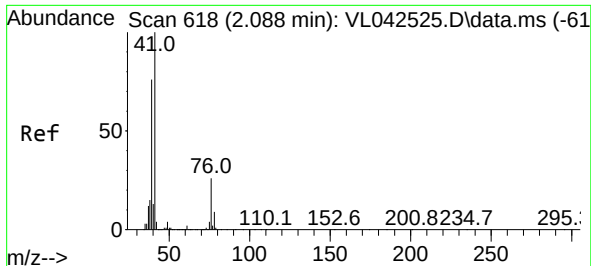
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#20
Methylene Chloride
Concen: 8.739 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.010 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

Tgt Ion: 84 Resp: 56851
Ion Ratio Lower Upper
84 100
49 161.5 128.2 192.4
51 46.9 41.7 62.5
86 60.3 52.6 79.0





#21

Allyl Chloride

Concen: 9.772 ppbv

RT: 2.098 min Scan# 61

Delta R.T. 0.010 min

Lab File: VL042538.D

Acq: 14 May 2025 11:53

Instrument :

MSVOA_L

ClientSampleId :

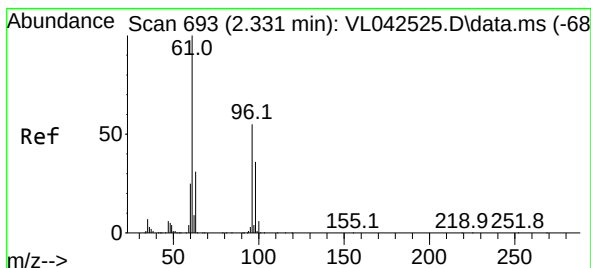
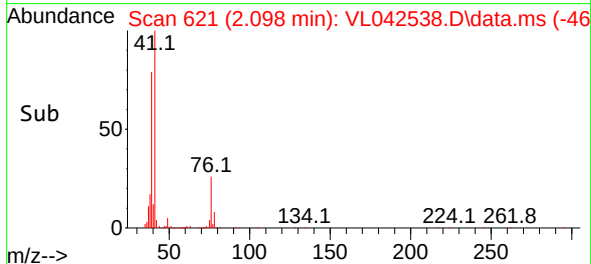
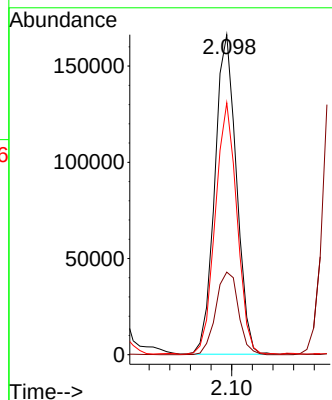
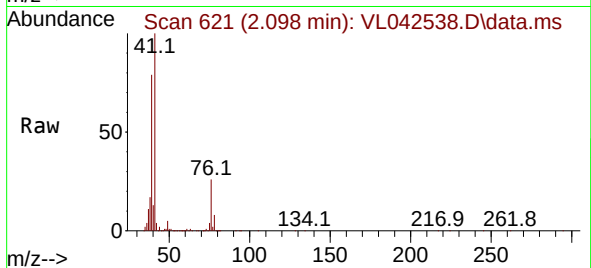
VL0514ABS01

Tgt Ion:	41	Resp:	12087
Ion Ratio	Lower	Upper	
41	100		
76	27.1	22.0	33.0
39	78.9	59.5	89.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#22

trans-1,2-Dichloroethene

Concen: 9.669 ppbv

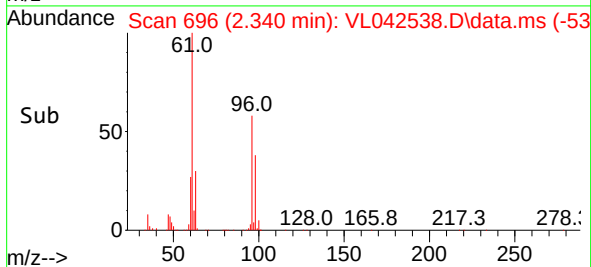
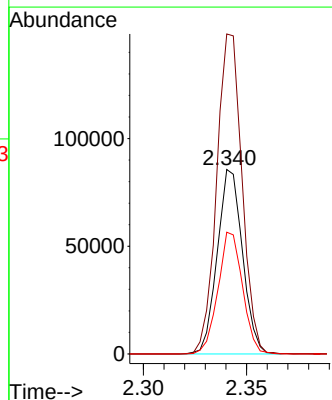
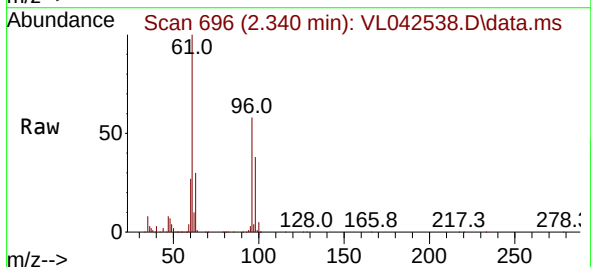
RT: 2.340 min Scan# 696

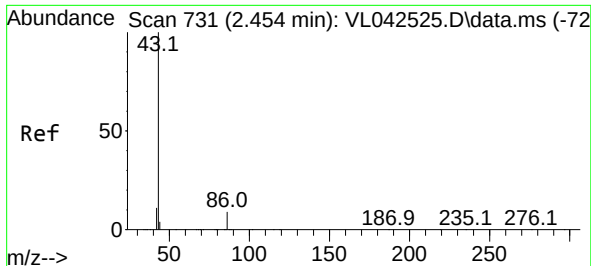
Delta R.T. 0.010 min

Lab File: VL042538.D

Acq: 14 May 2025 11:53

Tgt Ion:	96	Resp:	72704
Ion Ratio	Lower	Upper	
96	100		
61	173.4	145.9	218.9
98	66.0	52.2	78.4





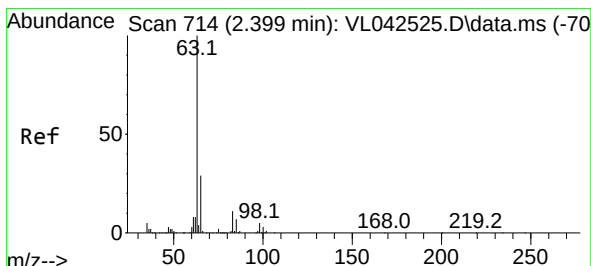
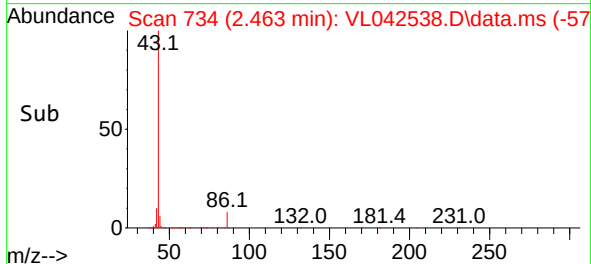
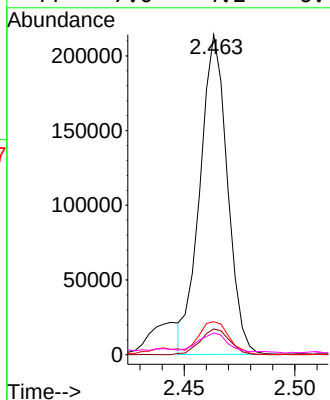
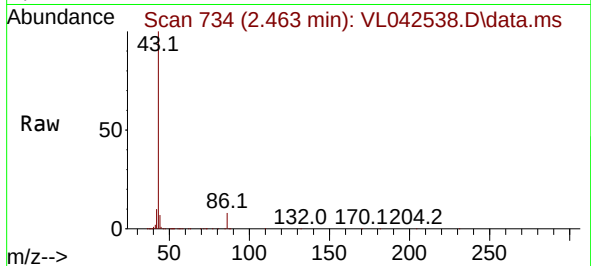
#23
 Vinyl Acetate
 Concen: 9.415 ppbv
 RT: 2.463 min Scan# 714
 Delta R.T. 0.010 min
 Lab File: VL042538.D
 Acq: 14 May 2025 11:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0514ABS01

Tgt Ion: 43 Resp: 18414
 Ion Ratio Lower Upper
 43 100
 86 8.0 6.8 10.2
 42 10.2 8.8 13.2
 44 7.0 4.2 6.4#

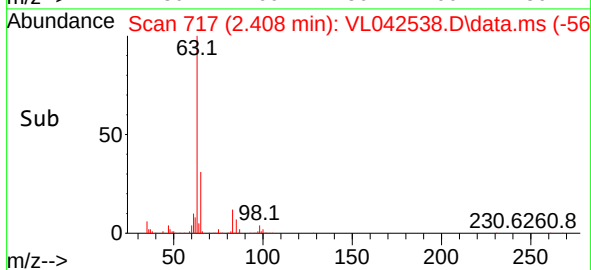
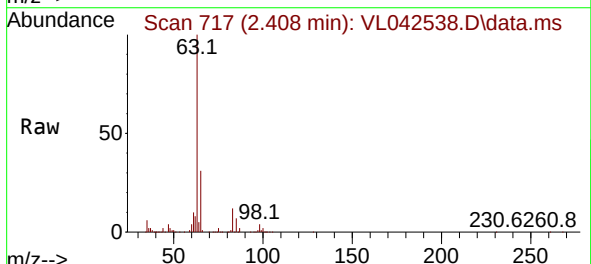
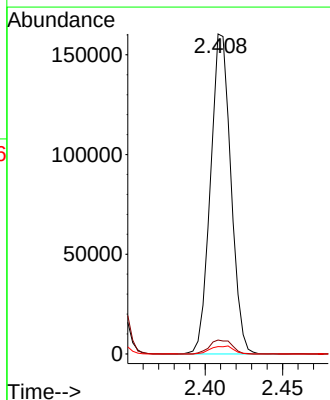
Manual Integrations
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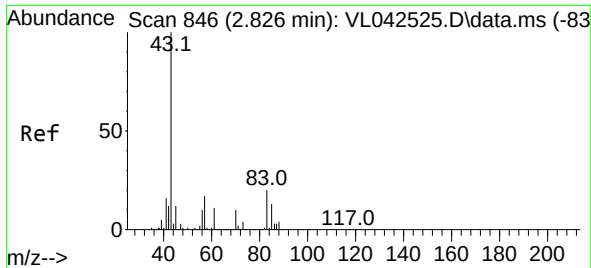
Reviewed By :Semsettin Yesilyurt 05/15/2025
 Supervised By :Mahesh Dadoda 05/15/2025



#24
 1,1-Dichloroethane
 Concen: 10.102 ppbv
 RT: 2.408 min Scan# 717
 Delta R.T. 0.010 min
 Lab File: VL042538.D
 Acq: 14 May 2025 11:53

Tgt Ion: 63 Resp: 146965
 Ion Ratio Lower Upper
 63 100
 98 4.4 2.6 8.0
 100 2.3 1.4 4.2





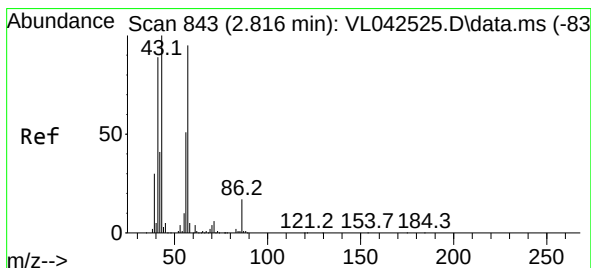
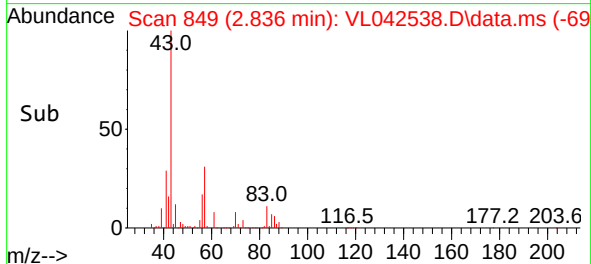
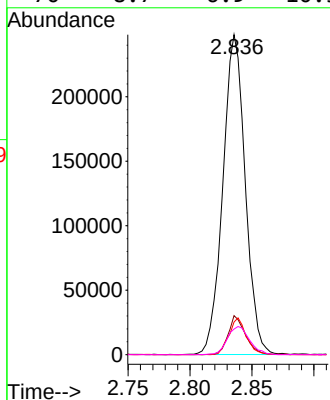
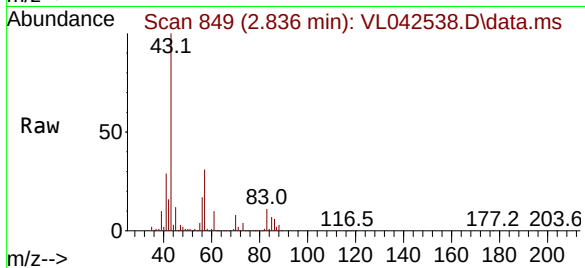
#25
Ethyl Acetate
Concen: 9.540 ppbv
RT: 2.836 min Scan# 846
Delta R.T. 0.010 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

Instrument :
MSVOA_L
ClientSampleId :
VL0514ABS01

Tgt Ion: 43 Resp: 31292
Ion Ratio Lower Upper
43 100
45 9.6 7.9 11.9
61 9.0 7.1 10.7
70 8.7 6.9 10.3

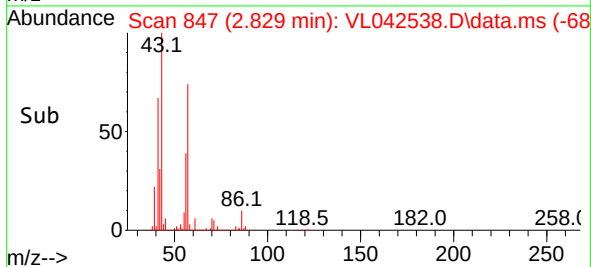
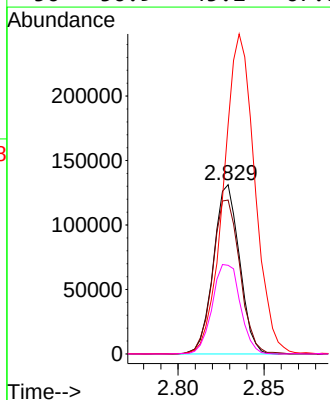
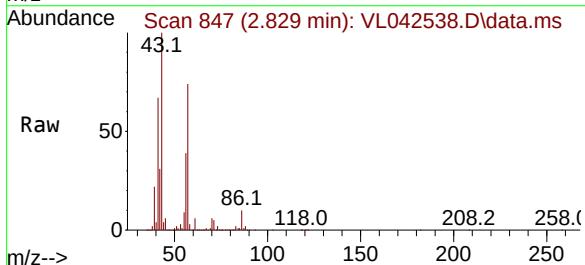
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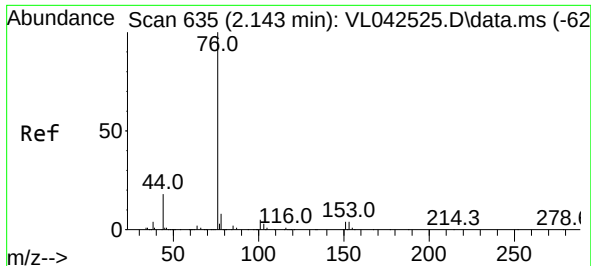
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#26
Hexane
Concen: 10.262 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.013 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

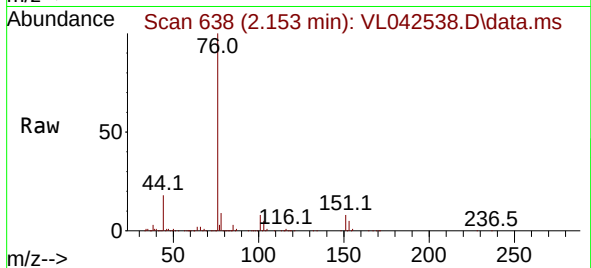
Tgt Ion: 57 Resp: 138195
Ion Ratio Lower Upper
57 100
41 95.6 76.1 114.1
43 227.4 188.9 283.3
56 56.9 45.2 67.8





#27
Carbon Disulfide
Concen: 10.428 ppbv
RT: 2.153 min Scan# 61
Delta R.T. 0.010 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

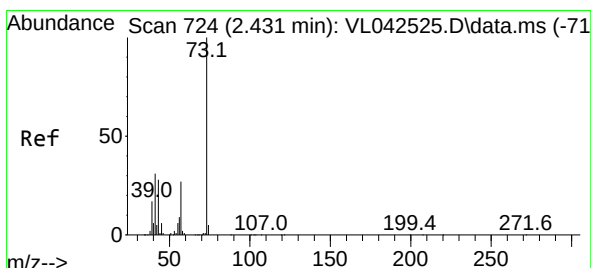
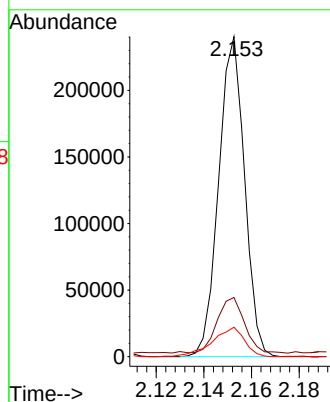
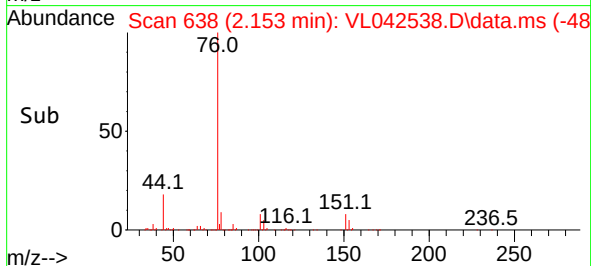
Instrument :
MSVOA_L
ClientSampleId :
VL0514ABS01



Tgt Ion: 76 Resp: 181278
Ion Ratio Lower Upper
76 100
44 18.5 17.1 25.7
78 11.4 8.6 12.8

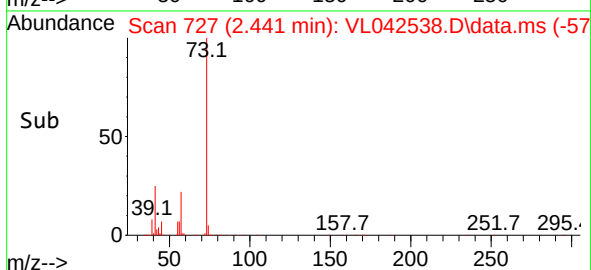
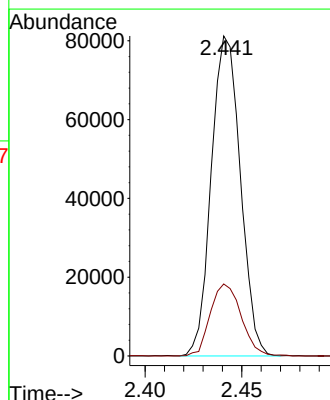
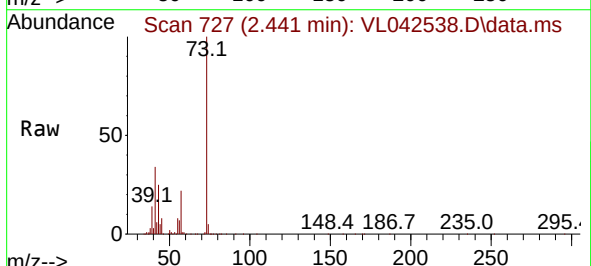
Manual Integrations
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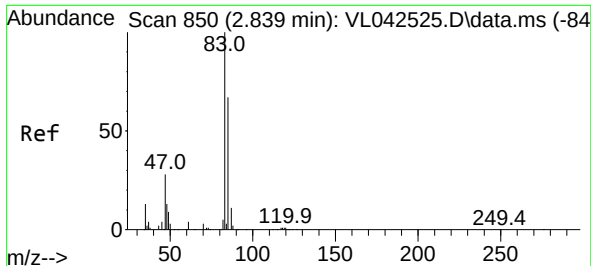
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#28
Methyl tert-Butyl Ether
Concen: 11.338 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.010 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

Tgt Ion: 73 Resp: 84826
Ion Ratio Lower Upper
73 100
57 24.0 20.3 30.5





#29

Chloroform

Concen: 8.872 ppbv

RT: 2.852 min Scan# 850

Delta R.T. 0.013 min

Lab File: VL042538.D

Acq: 14 May 2025 11:53

Instrument :

MSVOA_L

ClientSampleId :

VL0514ABS01

Tgt Ion: 83 Resp: 247790

Ion Ratio Lower Upper

83 100

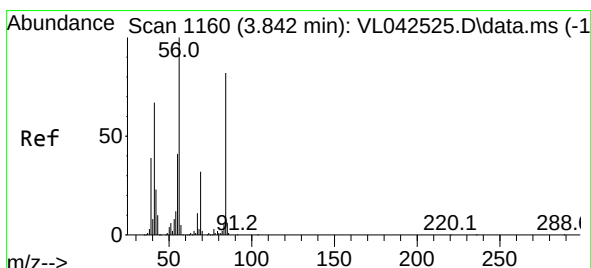
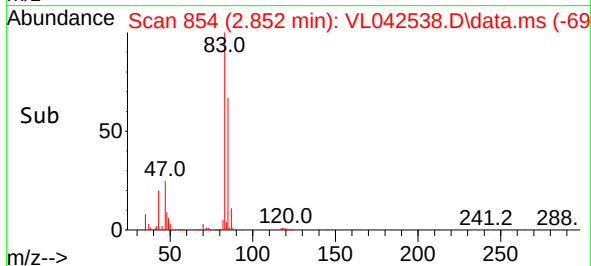
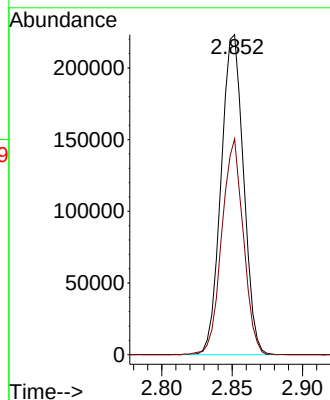
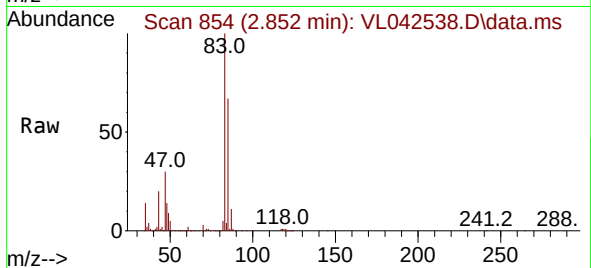
85 67.4 53.5 80.3

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/15/2025

Supervised By :Mahesh Dadoda 05/15/2025



#30

Cyclohexane

Concen: 10.850 ppbv

RT: 3.858 min Scan# 1165

Delta R.T. 0.016 min

Lab File: VL042538.D

Acq: 14 May 2025 11:53

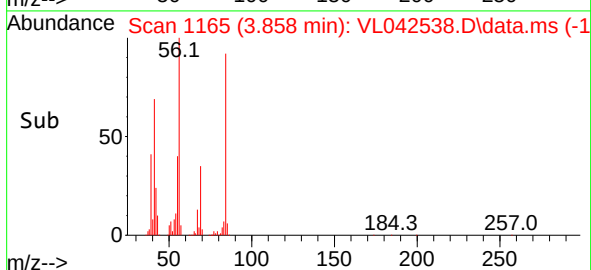
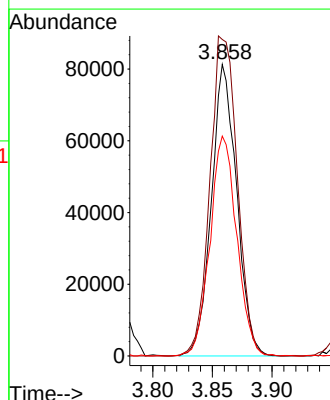
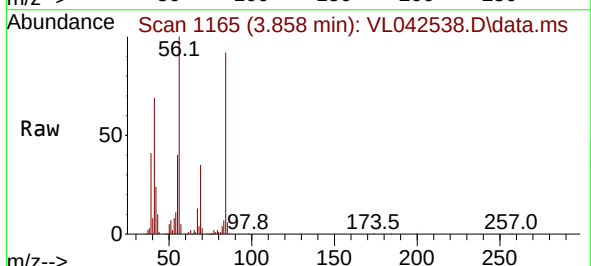
Tgt Ion: 84 Resp: 119963

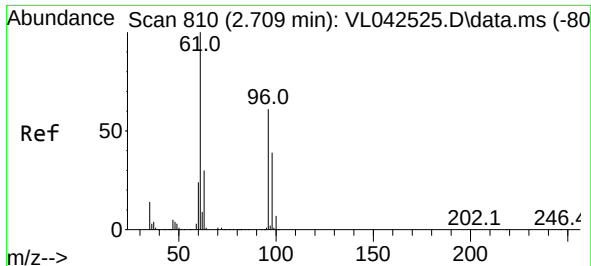
Ion Ratio Lower Upper

84 100

56 118.8 97.1 145.7

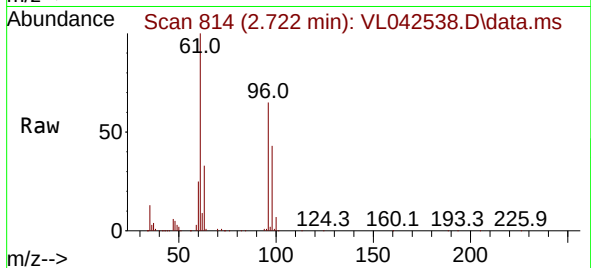
41 79.9 66.6 99.8





#31
 cis-1,2-Dichloroethene
 Concen: 9.553 ppbv
 RT: 2.722 min Scan# 810
 Delta R.T. 0.013 min
 Lab File: VL042538.D
 Acq: 14 May 2025 11:53

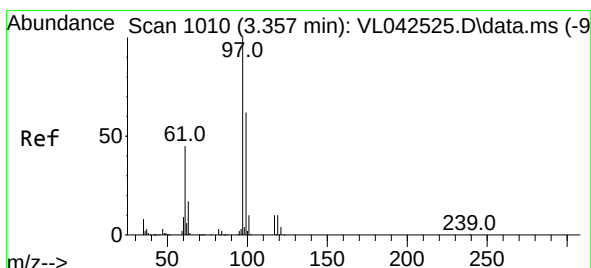
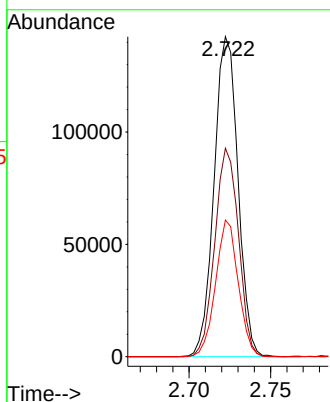
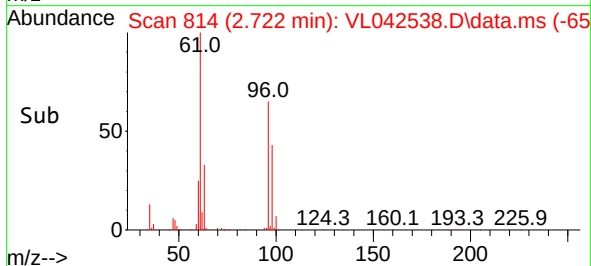
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0514ABS01



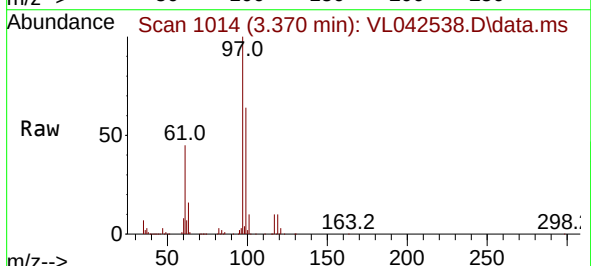
Tgt Ion: 61 Resp: 145270
 Ion Ratio Lower Upper
 61 100
 96 65.1 48.9 73.3
 98 42.7 31.4 47.2

Manual Integrations
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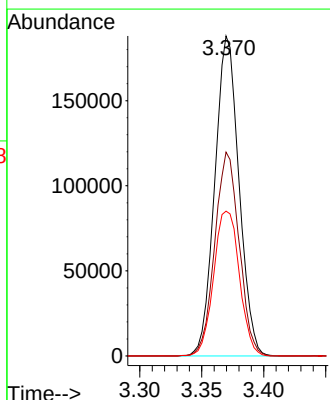
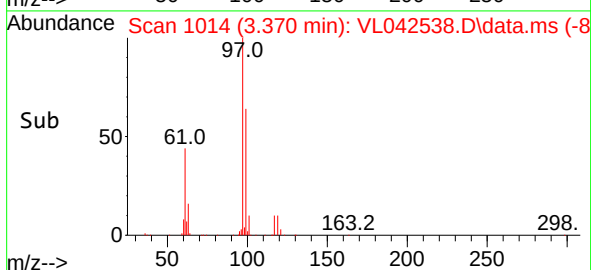
Reviewed By :Semsettin Yesilyurt 05/15/2025
 Supervised By :Mahesh Dadoda 05/15/2025

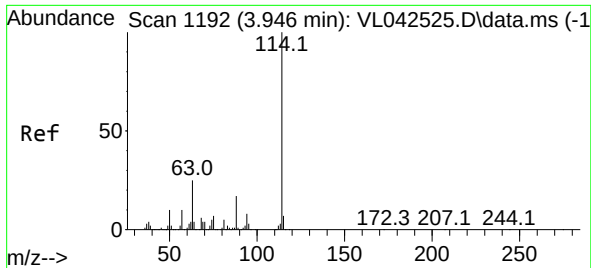


#32
 1,1,1-Trichloroethane
 Concen: 8.881 ppbv
 RT: 3.370 min Scan# 1014
 Delta R.T. 0.013 min
 Lab File: VL042538.D
 Acq: 14 May 2025 11:53



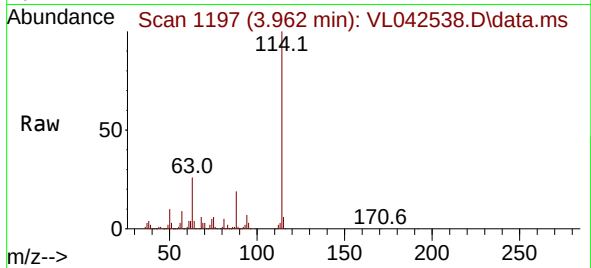
Tgt Ion: 97 Resp: 255956
 Ion Ratio Lower Upper
 97 100
 99 64.1 50.1 75.1
 61 48.3 38.2 57.2





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. 0.016 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

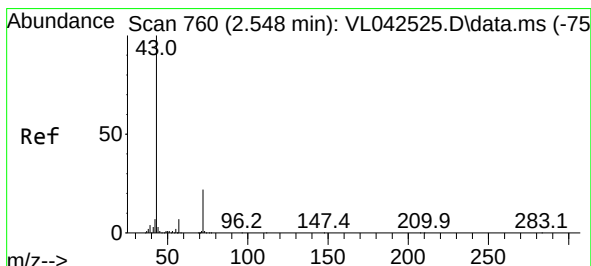
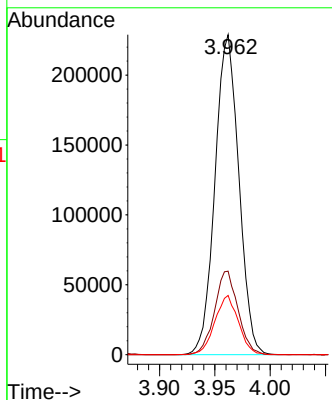
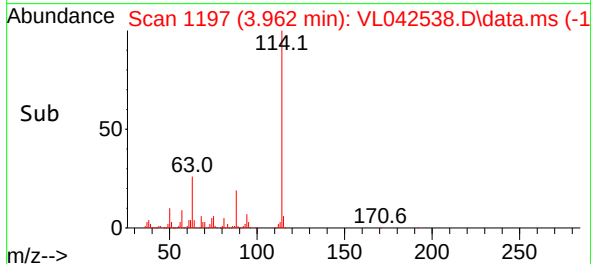
Instrument :
MSVOA_L
ClientSampleId :
VL0514ABS01



Tgt Ion:114 Resp: 342869
Ion Ratio Lower Upper
114 100
63 25.8 20.4 30.6
88 18.4 14.5 21.7

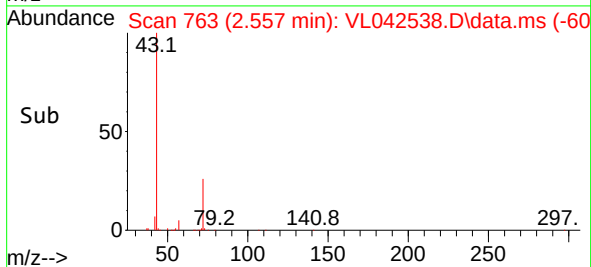
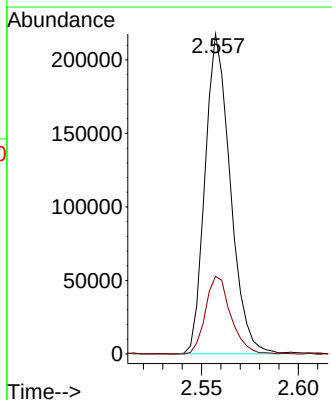
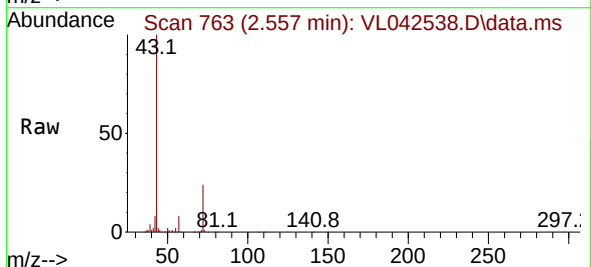
Manual Integrations
APPROVED

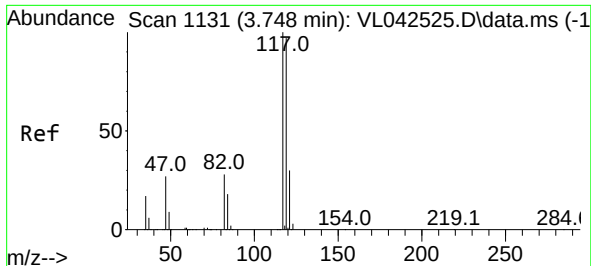
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#34
2-Butanone
Concen: 8.720 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.010 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

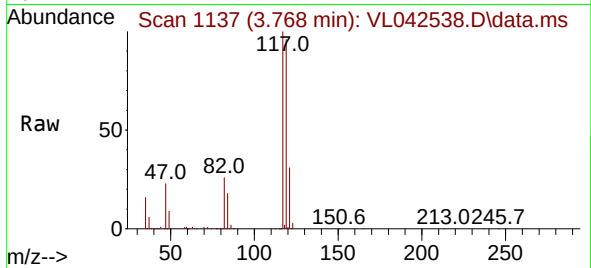
Tgt Ion: 43 Resp: 197074
Ion Ratio Lower Upper
43 100
72 24.4 18.7 28.1





#35
Carbon Tetrachloride
Concen: 8.997 ppbv
RT: 3.768 min Scan# 1131
Delta R.T. 0.019 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

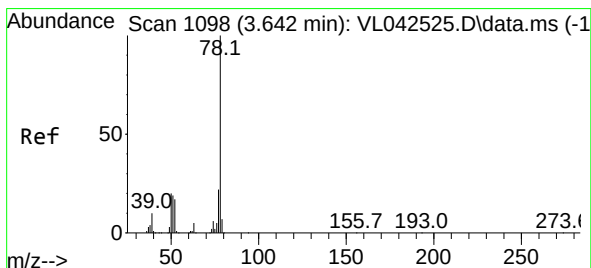
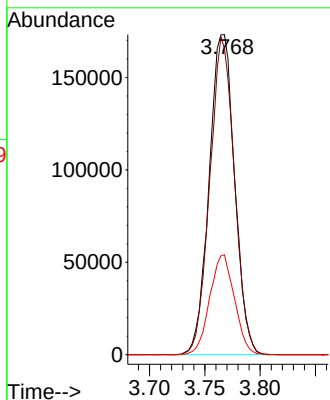
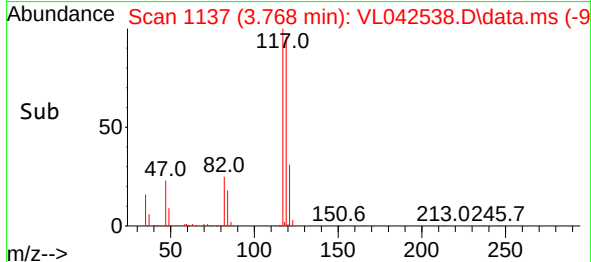
Instrument :
MSVOA_L
ClientSampleId :
VL0514ABS01



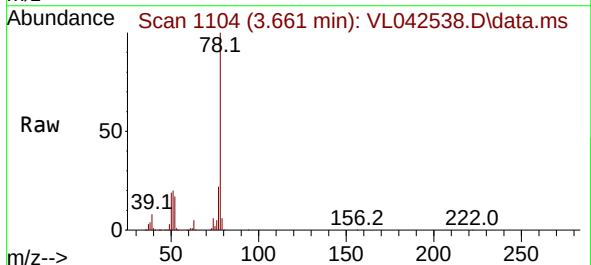
Tgt Ion: 117 Resp: 277335
Ion Ratio Lower Upper
117 100
119 95.8 77.7 116.5
121 31.2 24.0 36.0

Manual Integrations
APPROVED

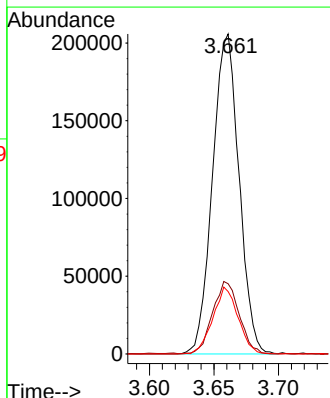
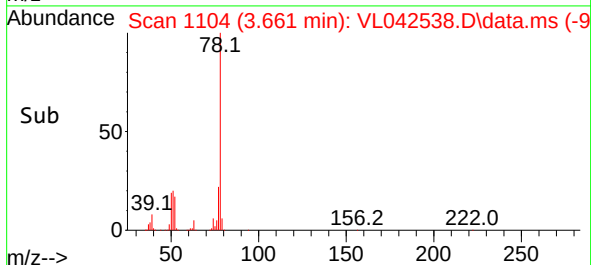
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025

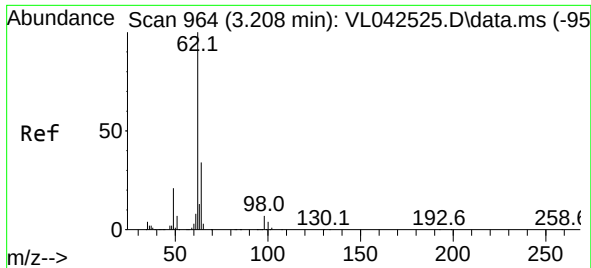


#36
Benzene
Concen: 9.661 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. 0.019 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53



Tgt Ion: 78 Resp: 293547
Ion Ratio Lower Upper
78 100
77 21.9 17.4 26.2
50 19.5 16.3 24.5





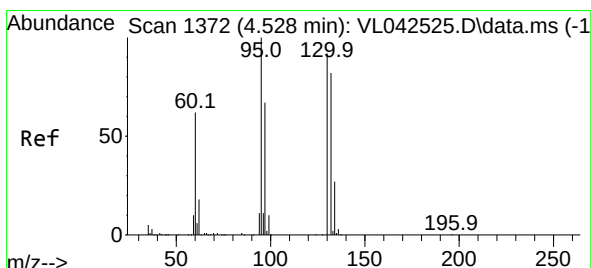
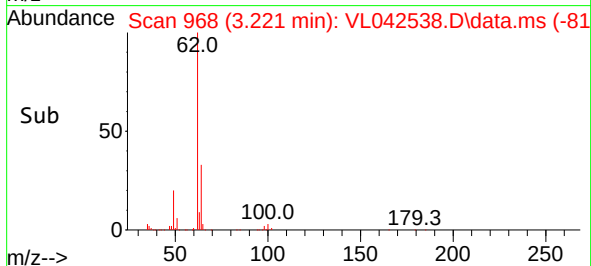
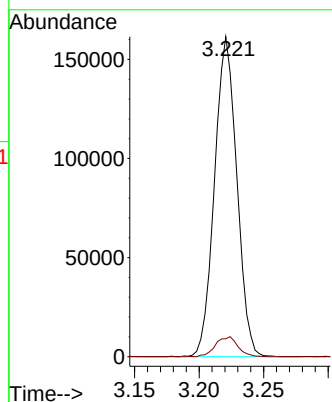
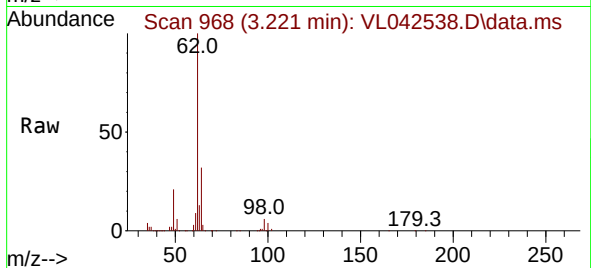
#37
1,2-Dichloroethane
Concen: 8.932 ppbv
RT: 3.221 min Scan# 90
Delta R.T. 0.013 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

Instrument :
MSVOA_L
ClientSampleId :
VL0514ABS01

Tgt Ion: 62 Resp: 193600
Ion Ratio Lower Upper
62 100
98 6.3 5.0 7.4

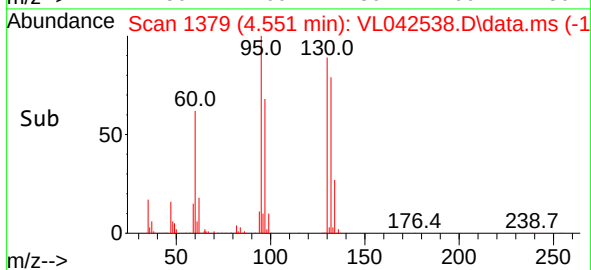
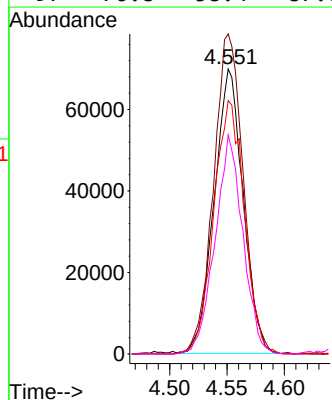
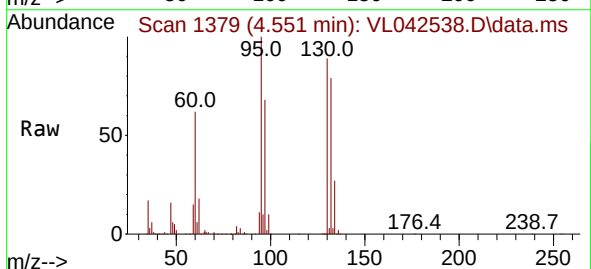
Manual Integrations
APPROVED

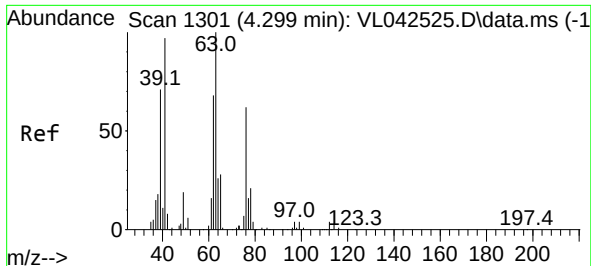
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#38
Trichloroethene
Concen: 9.261 ppbv
RT: 4.551 min Scan# 1379
Delta R.T. 0.023 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

Tgt Ion:130 Resp: 122351
Ion Ratio Lower Upper
130 100
95 112.3 87.0 130.4
132 89.0 71.1 106.7
97 76.8 58.4 87.6





#39

1,2-Dichloropropane

Concen: 9.148 ppbv

RT: 4.315 min Scan# 11

Delta R.T. 0.016 min

Lab File: VL042538.D

Acq: 14 May 2025 11:53

Instrument :

MSVOA_L

ClientSampleId :

VL0514ABS01

Tgt Ion: 63 Resp: 10354

Ion Ratio Lower Upper

63 100

41 82.9 77.5 116.3

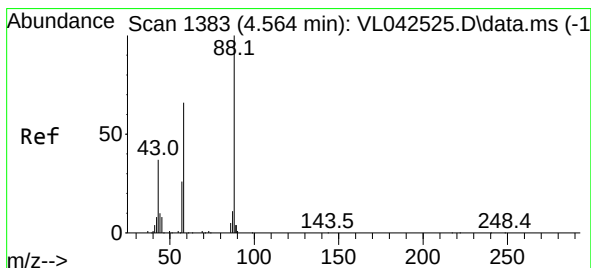
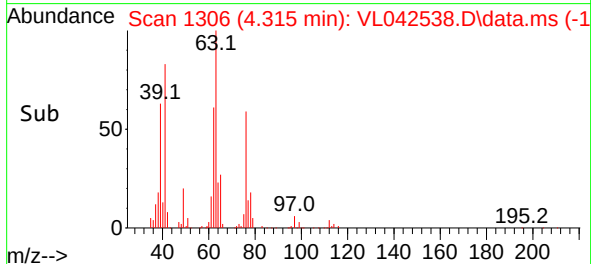
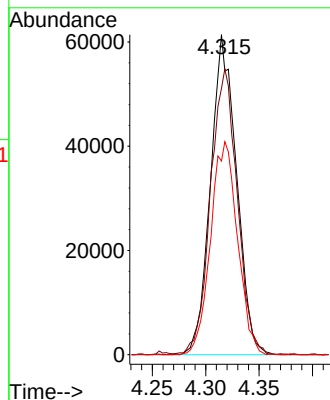
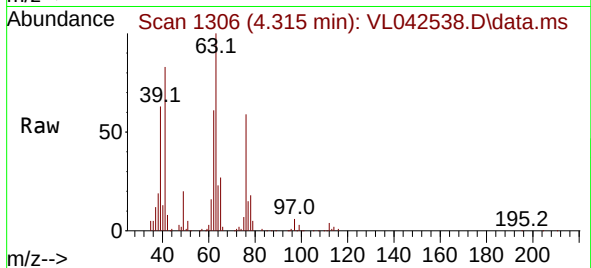
62 60.5 54.6 82.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/15/2025

Supervised By :Mahesh Dadoda 05/15/2025



#40

1,4-Dioxane

Concen: 10.292 ppbv

RT: 4.583 min Scan# 1389

Delta R.T. 0.019 min

Lab File: VL042538.D

Acq: 14 May 2025 11:53

Tgt Ion: 88 Resp: 47286

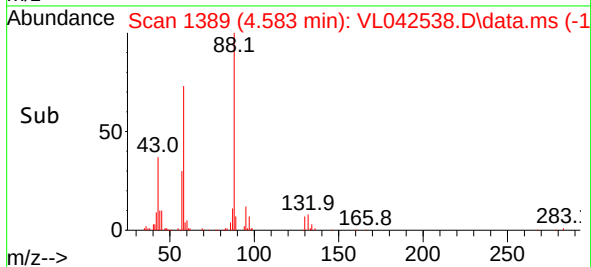
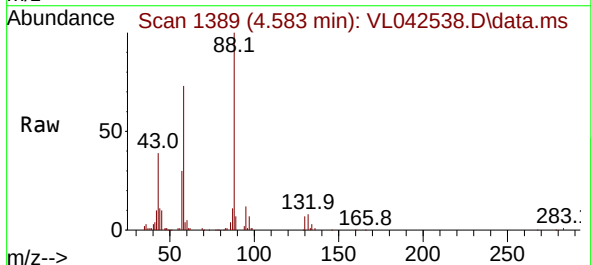
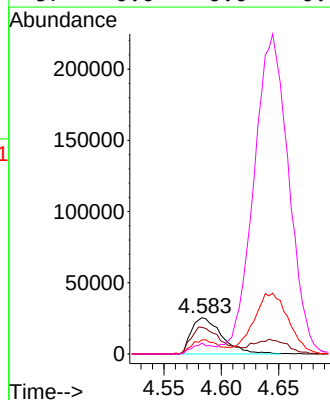
Ion Ratio Lower Upper

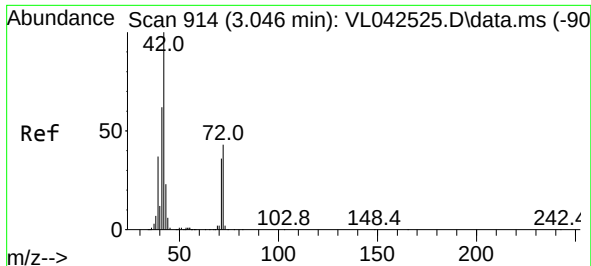
88 100

58 71.7 58.2 87.2

43 35.4 27.9 41.9

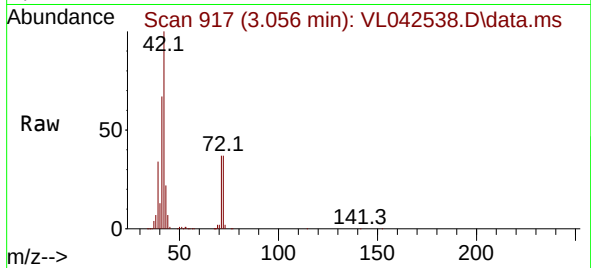
57 0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 10.403 ppbv
RT: 3.056 min Scan# 914
Delta R.T. 0.010 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

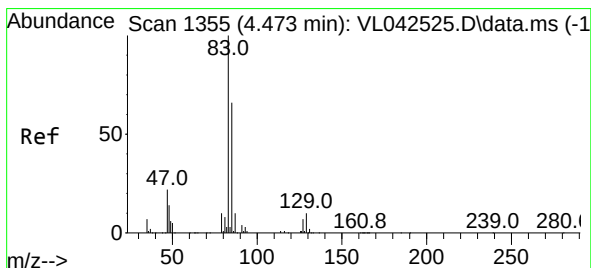
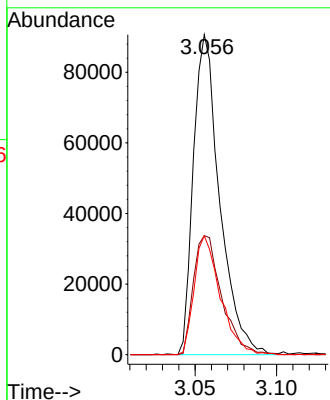
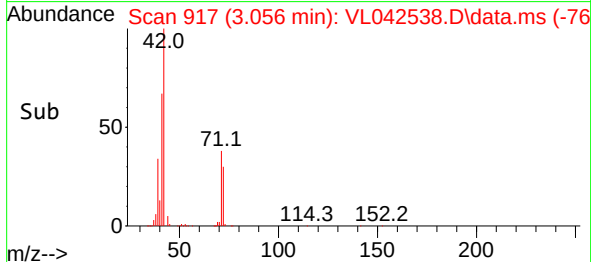
Instrument :
MSVOA_L
ClientSampleId :
VL0514ABS01



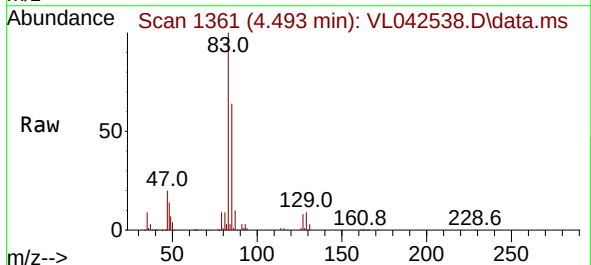
Tgt Ion: 42 Resp: 101768
Ion Ratio Lower Upper
42 100
72 40.0 32.7 49.1
71 37.0 30.4 45.6

Manual Integrations
APPROVED

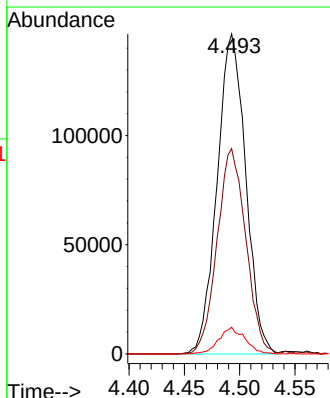
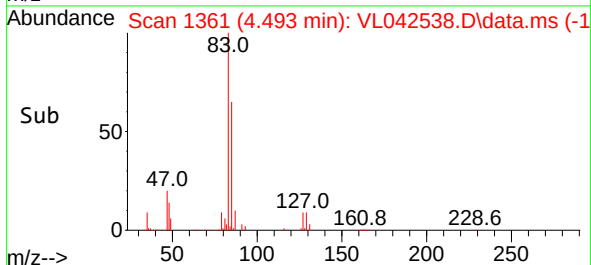
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025

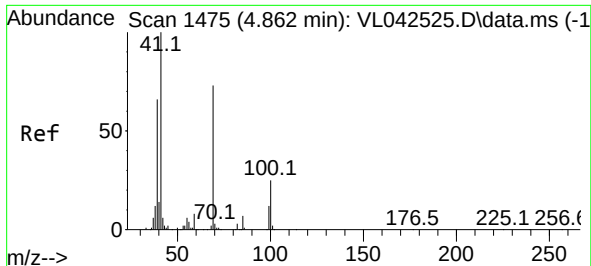


#42
Bromodichloromethane
Concen: 9.111 ppbv
RT: 4.493 min Scan# 1361
Delta R.T. 0.019 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53



Tgt Ion: 83 Resp: 263548
Ion Ratio Lower Upper
83 100
85 64.1 52.6 79.0
127 8.4 6.0 9.0





#43

Methyl Methacrylate

Concen: 10.429 ppbv

RT: 4.884 min Scan# 1475

Delta R.T. 0.023 min

Lab File: VL042538.D

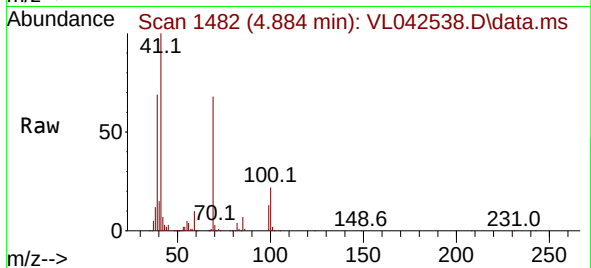
Acq: 14 May 2025 11:53

Instrument :

MSVOA_L

ClientSampleId :

VL0514ABS01

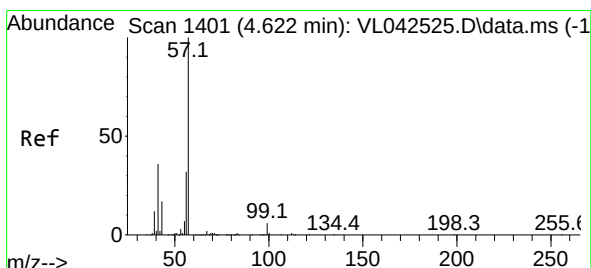
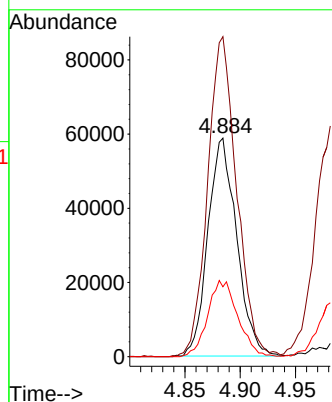
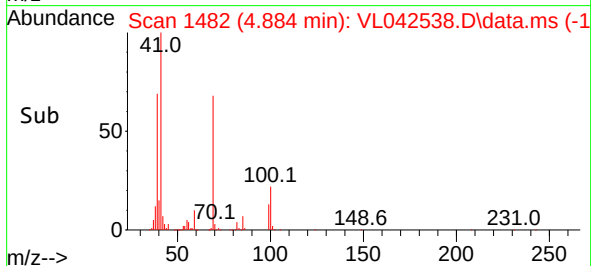


Tgt Ion:	69	Resp:	106120
Ion Ratio	Lower	Upper	
69	100		
41	148.3	119.9	179.9
100	36.5	28.4	42.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#44

2,2,4-Trimethylpentane

Concen: 9.887 ppbv

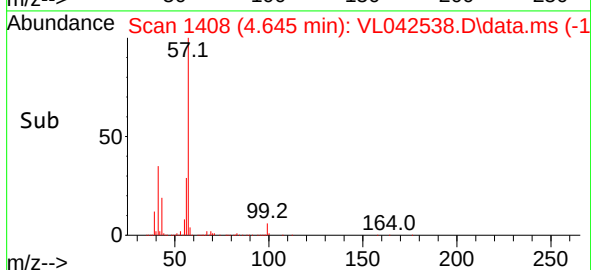
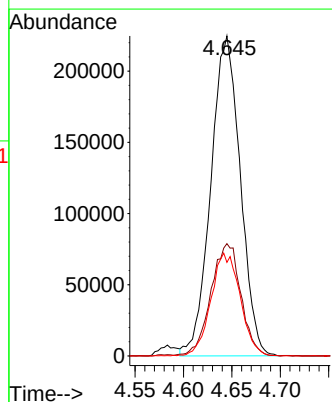
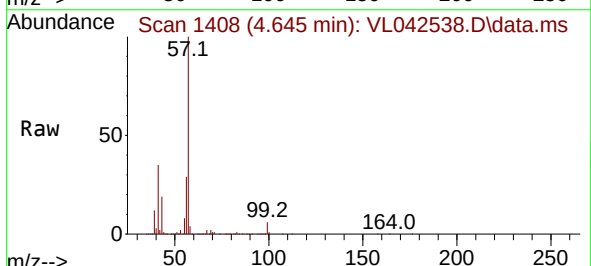
RT: 4.645 min Scan# 1408

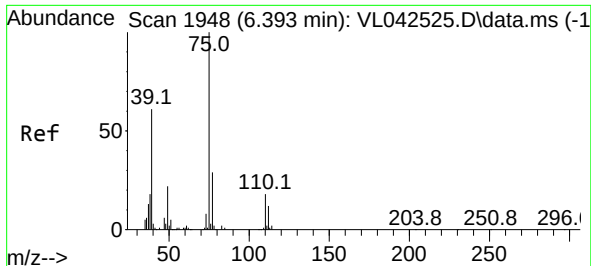
Delta R.T. 0.023 min

Lab File: VL042538.D

Acq: 14 May 2025 11:53

Tgt Ion:	57	Resp:	476041
Ion Ratio	Lower	Upper	
57	100		
41	36.0	28.3	42.5
56	32.1	25.9	38.9





#45

t-1,3-Dichloropropene

Concen: 10.223 ppbv

RT: 6.418 min Scan# 1948

Delta R.T. 0.026 min

Lab File: VL042538.D

Acq: 14 May 2025 11:53

Instrument :

MSVOA_L

ClientSampleId :

VL0514ABS01

Tgt Ion: 75 Resp: 13291

Ion Ratio Lower Upper

75 100

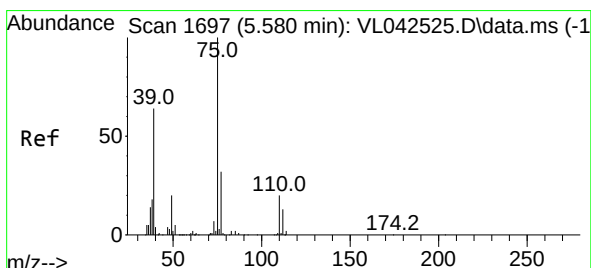
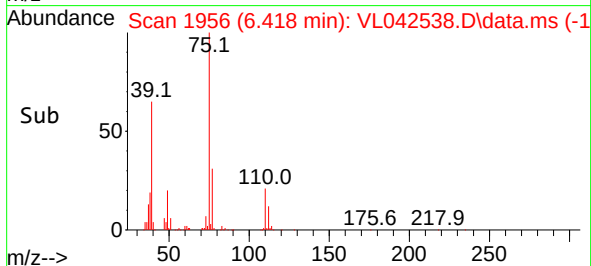
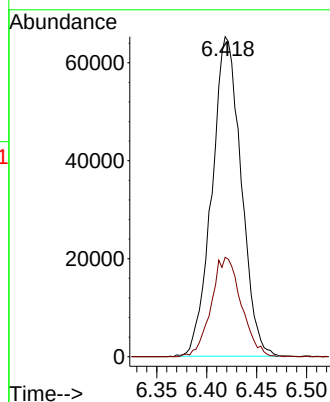
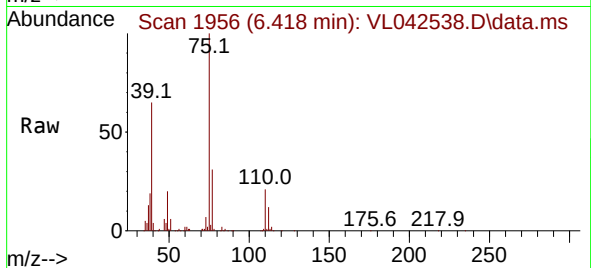
77 31.1 23.3 34.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/15/2025

Supervised By :Mahesh Dadoda 05/15/2025



#46

cis-1,3-Dichloropropene

Concen: 10.239 ppbv

RT: 5.606 min Scan# 1705

Delta R.T. 0.026 min

Lab File: VL042538.D

Acq: 14 May 2025 11:53

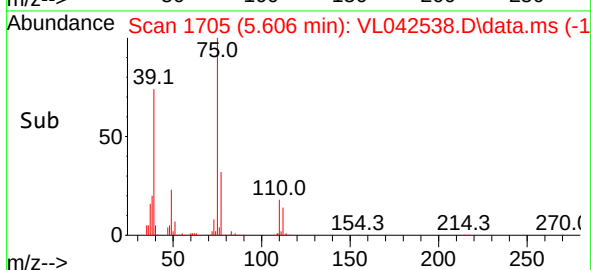
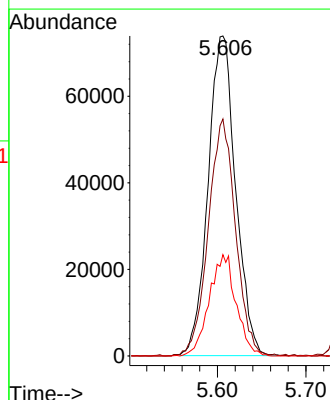
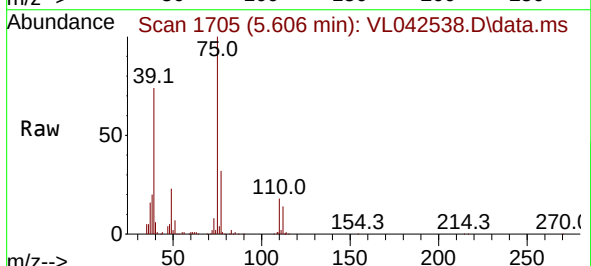
Tgt Ion: 75 Resp: 160141

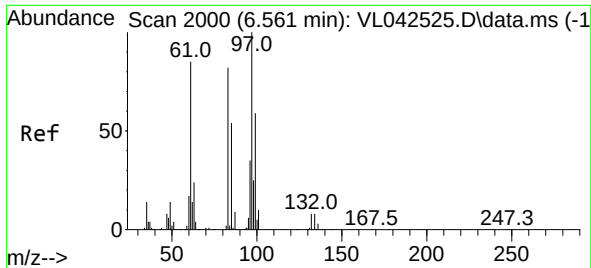
Ion Ratio Lower Upper

75 100

39 73.9 51.2 76.8

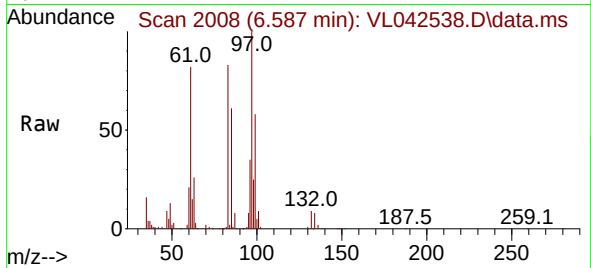
77 31.7 25.4 38.0





#47
1,1,2-Trichloroethane
Concen: 8.967 ppbv
RT: 6.587 min Scan# 2008
Delta R.T. 0.026 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

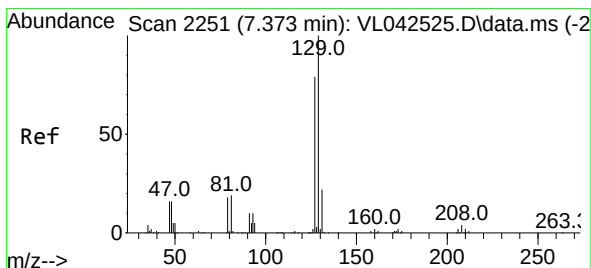
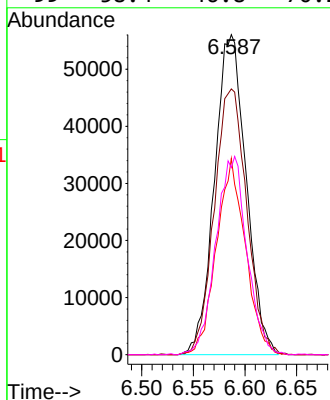
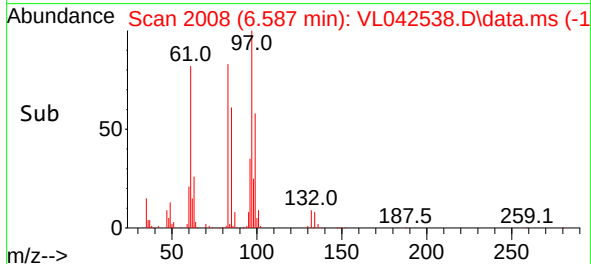
Instrument :
MSVOA_L
ClientSampleId :
VL0514ABS01



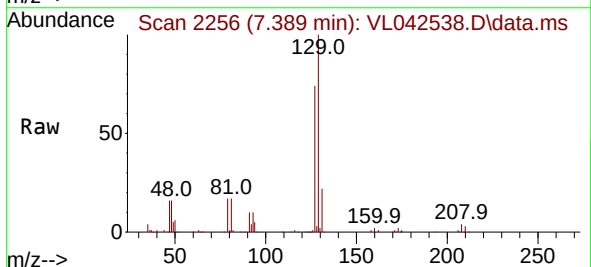
Tgt Ion: 97 Resp: 11951
Ion Ratio Lower Upper
97 100
83 83.1 66.0 99.0
85 61.3 42.8 64.2
99 58.4 46.8 70.2

Manual Integrations
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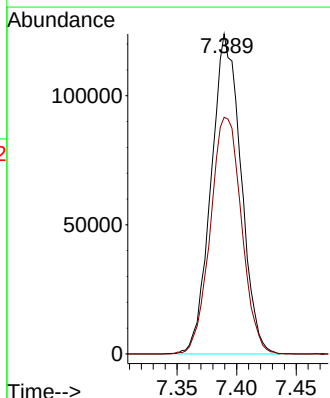
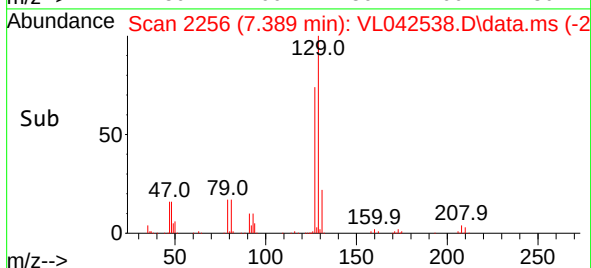
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025

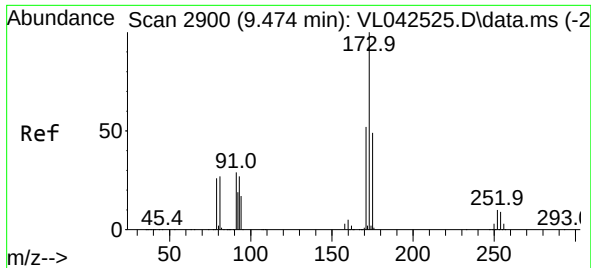


#48
Dibromochloromethane
Concen: 9.676 ppbv
RT: 7.389 min Scan# 2256
Delta R.T. 0.016 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53



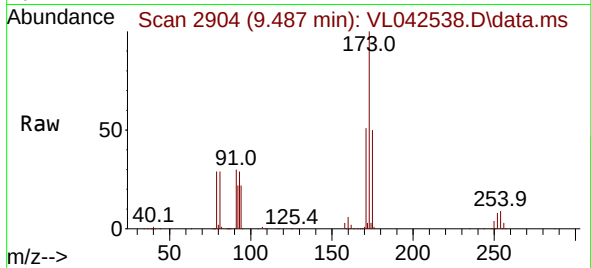
Tgt Ion:129 Resp: 215320
Ion Ratio Lower Upper
129 100
127 77.3 39.6 118.8





#49
Bromoform
Concen: 9.740 ppbv
RT: 9.487 min Scan# 2904
Delta R.T. 0.013 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

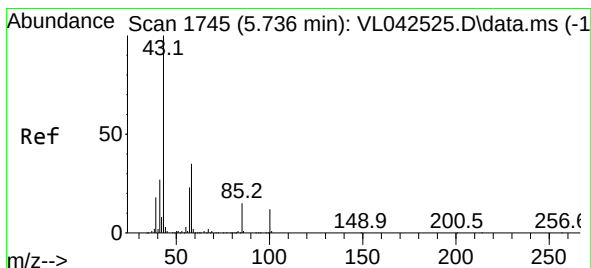
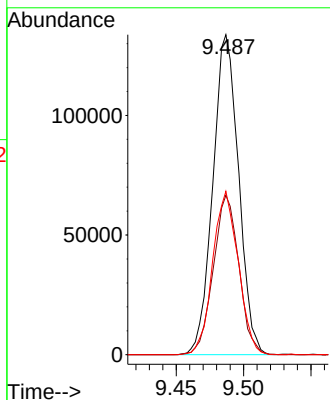
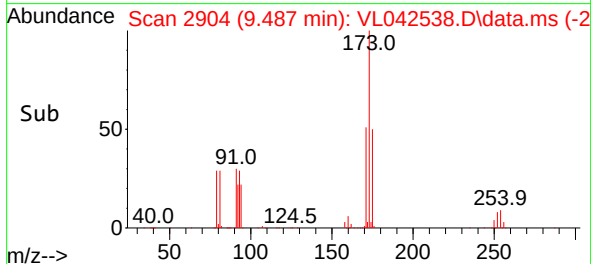
Instrument : MSVOA_L
ClientSampleId : VL0514ABS01



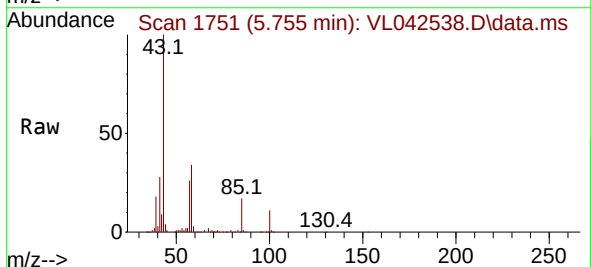
Tgt Ion:173 Resp: 17787
Ion Ratio Lower Upper
173 100
175 49.5 39.1 58.7
171 50.7 41.8 62.8

Manual Integrations
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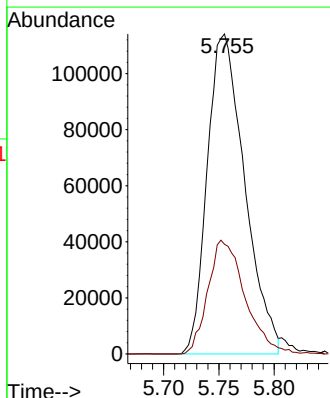
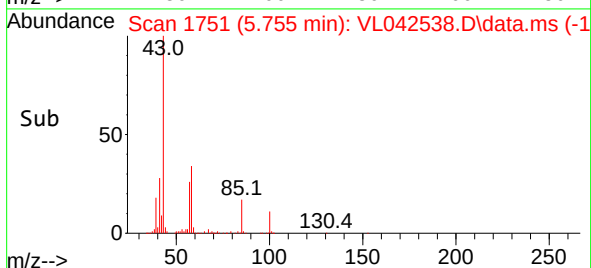
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025

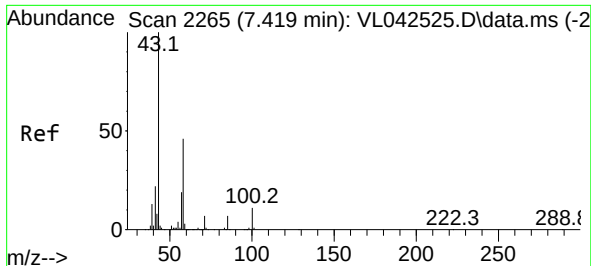


#50
4-Methyl-2-Pentanone
Concen: 10.107 ppbv
RT: 5.755 min Scan# 1751
Delta R.T. 0.019 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53



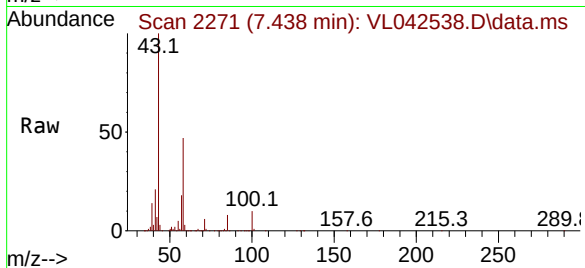
Tgt Ion: 43 Resp: 268277
Ion Ratio Lower Upper
43 100
58 35.4 28.6 42.8





#51
2-Hexanone
Concen: 11.195 ppbv
RT: 7.438 min Scan# 21104
Delta R.T. 0.019 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

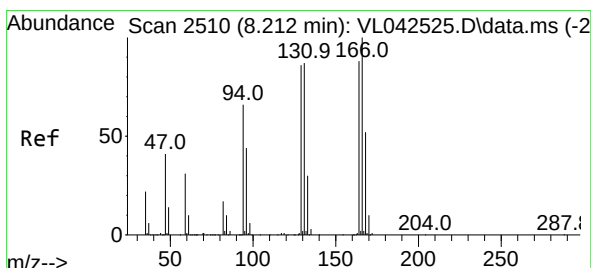
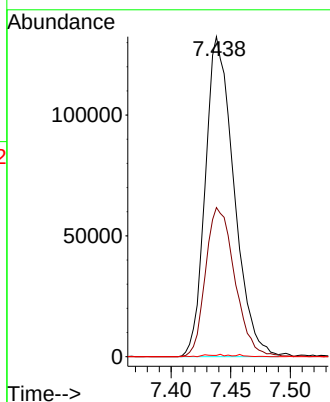
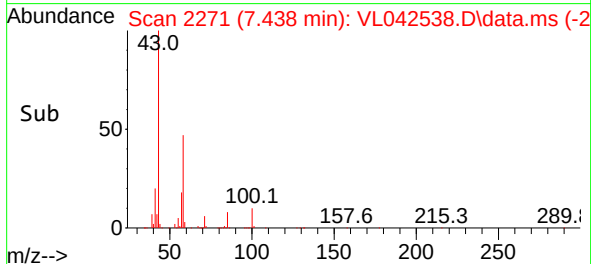
Instrument :
MSVOA_L
ClientSampleId :
VL0514ABS01



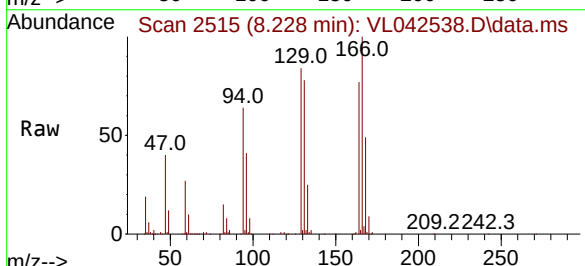
Tgt Ion: 43 Resp: 22104
Ion Ratio Lower Upper
43 100
58 47.7 37.5 56.3
98 0.7 0.9 1.3

Manual Integrations
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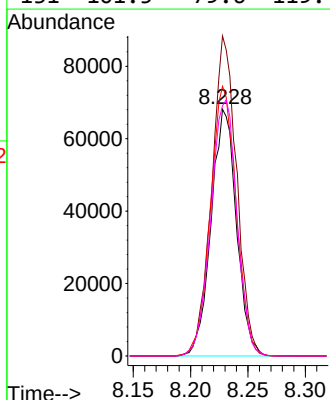
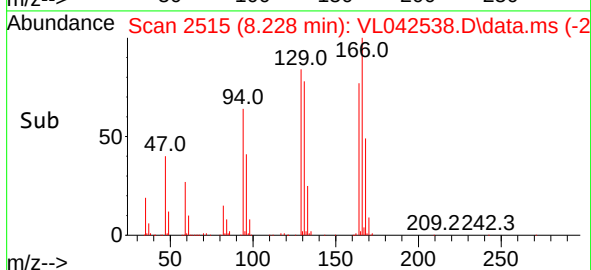
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025

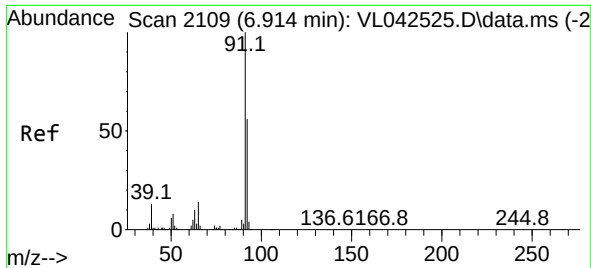


#52
Tetrachloroethene
Concen: 8.979 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. 0.016 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53



Tgt Ion:164 Resp: 104385
Ion Ratio Lower Upper
164 100
166 129.7 91.3 136.9
129 109.3 78.9 118.3
131 101.5 79.6 119.4





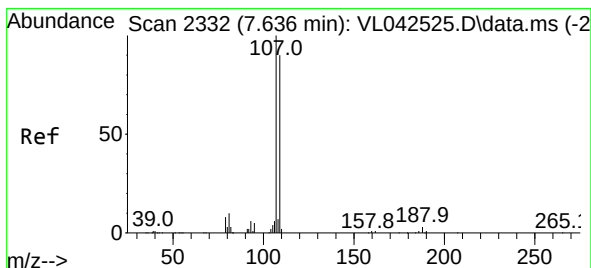
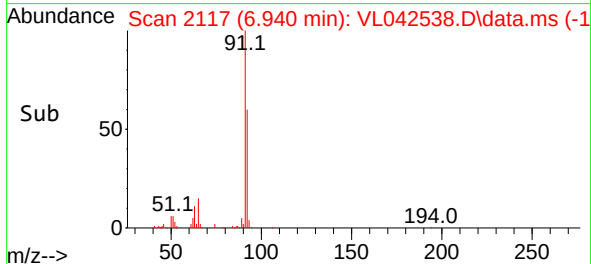
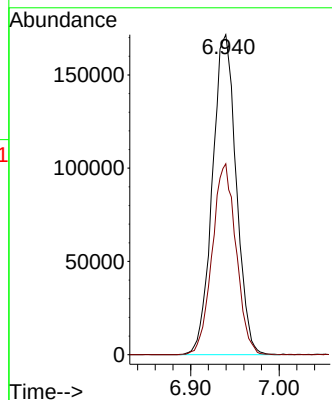
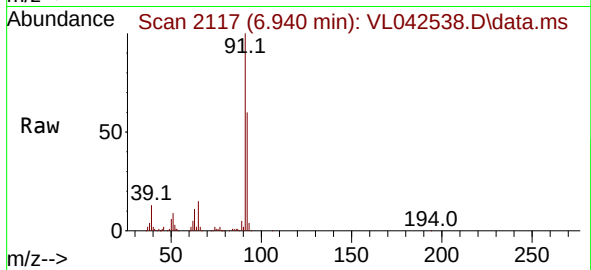
#53
Toluene
Concen: 10.735 ppbv
RT: 6.940 min Scan# 2109
Delta R.T. 0.026 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

Instrument :
MSVOA_L
ClientSampleId :
VL0514ABS01

Tgt Ion: 91 Resp: 320104
Ion Ratio Lower Upper
91 100
92 59.9 47.8 71.6

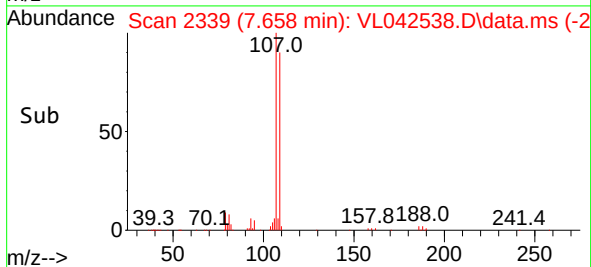
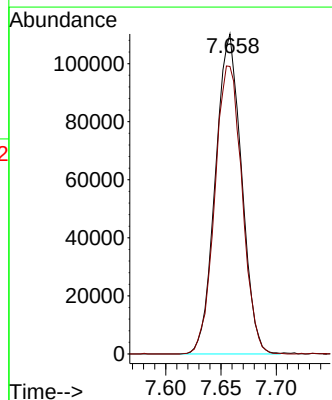
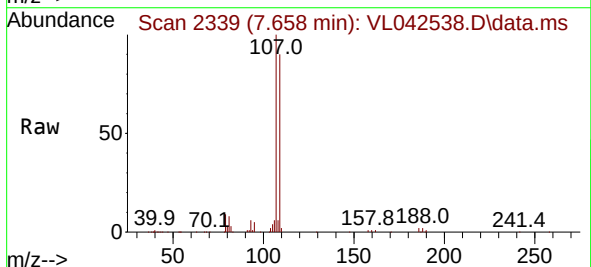
Manual Integrations
APPROVED

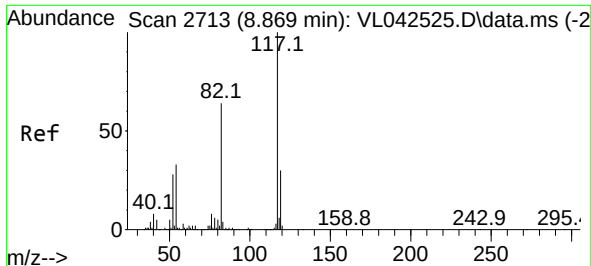
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#54
1,2-Dibromoethane
Concen: 9.315 ppbv
RT: 7.658 min Scan# 2339
Delta R.T. 0.022 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

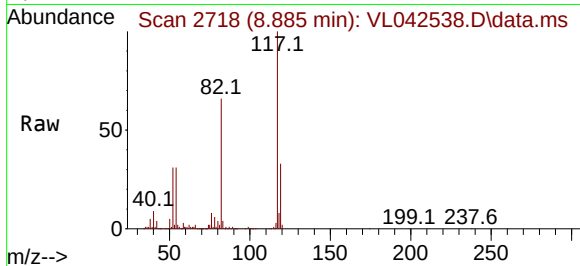
Tgt Ion:107 Resp: 181316
Ion Ratio Lower Upper
107 100
109 89.9 72.2 108.4





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. 0.016 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

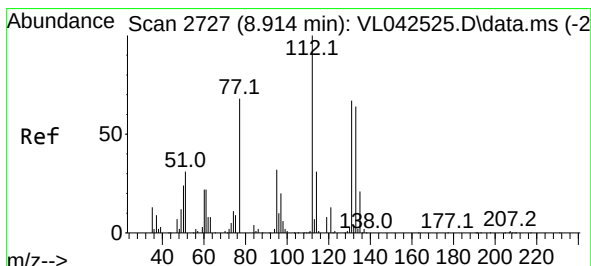
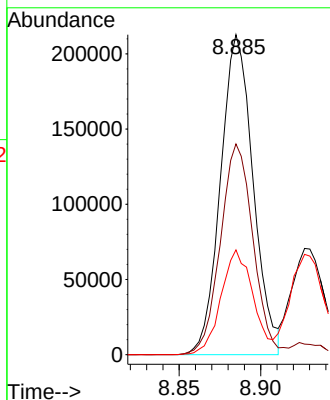
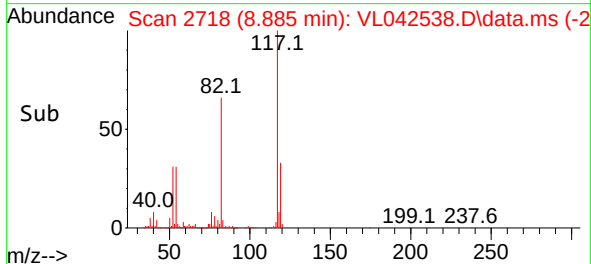
Instrument :
MSVOA_L
ClientSampleId :
VL0514ABS01



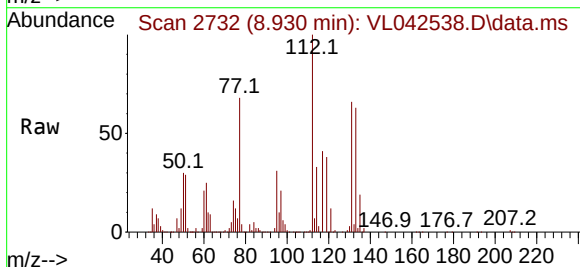
Tgt Ion:117 Resp: 296340
Ion Ratio Lower Upper
117 100
82 69.2 55.0 82.4
119 32.3 25.8 38.6

Manual Integrations
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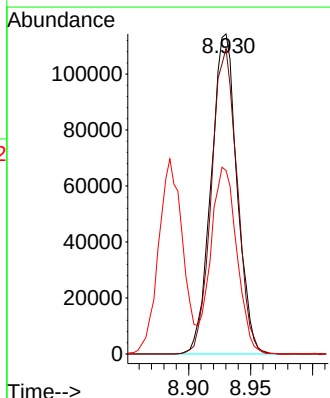
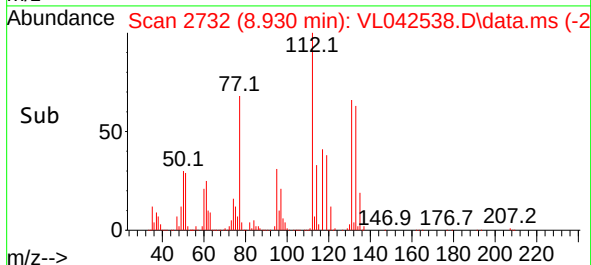
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025

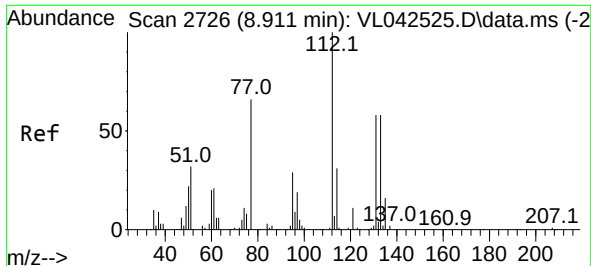


#56
1,1,1,2-Tetrachloroethane
Concen: 9.064 ppbv
RT: 8.930 min Scan# 2732
Delta R.T. 0.016 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53



Tgt Ion:131 Resp: 166531
Ion Ratio Lower Upper
131 100
133 94.4 77.4 116.2
119 59.5 49.0 73.4





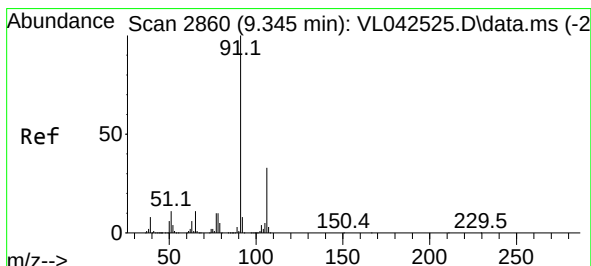
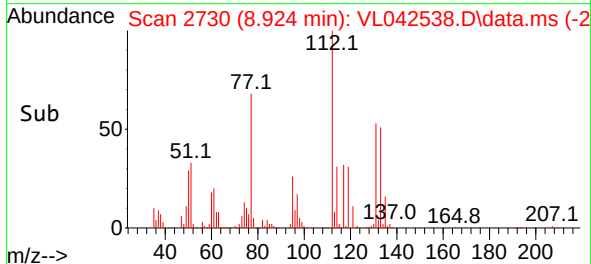
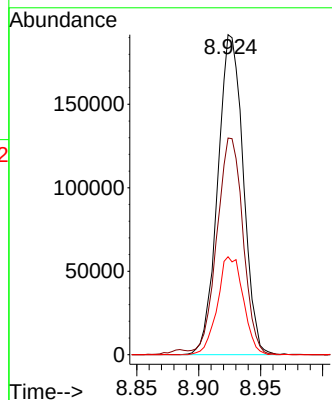
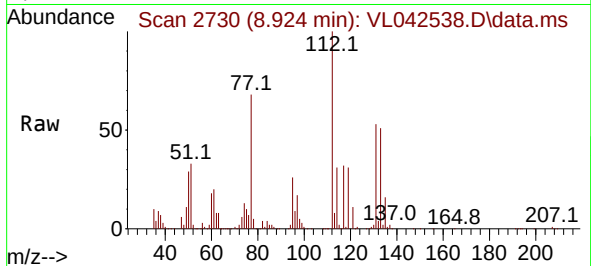
#57
Chlorobenzene
Concen: 9.248 ppbv
RT: 8.924 min Scan# 2726
Delta R.T. 0.013 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

Instrument :
MSVOA_L
ClientSampleId :
VL0514ABS01

Tgt Ion: 112 Resp: 275170
Ion Ratio Lower Upper
112 100
77 67.6 53.6 80.4
114 30.6 28.2 34.4

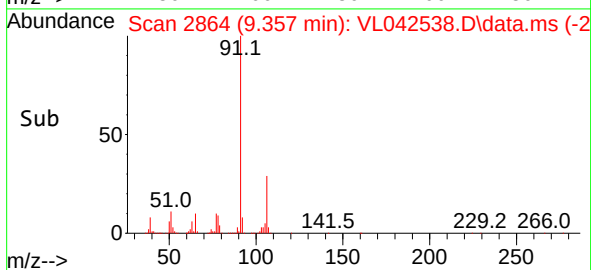
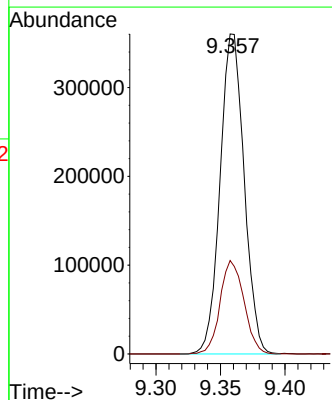
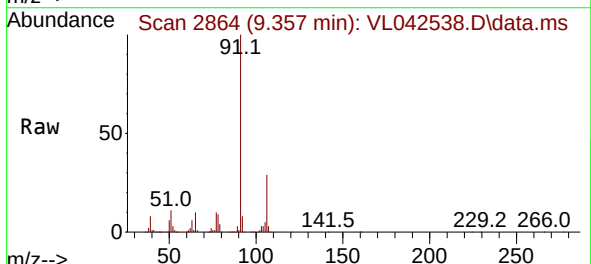
Manual Integrations
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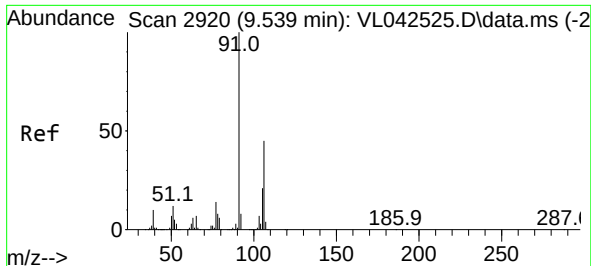
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#58
Ethyl Benzene
Concen: 11.554 ppbv
RT: 9.357 min Scan# 2864
Delta R.T. 0.013 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

Tgt Ion: 91 Resp: 466684
Ion Ratio Lower Upper
91 100
106 29.2 26.0 39.0





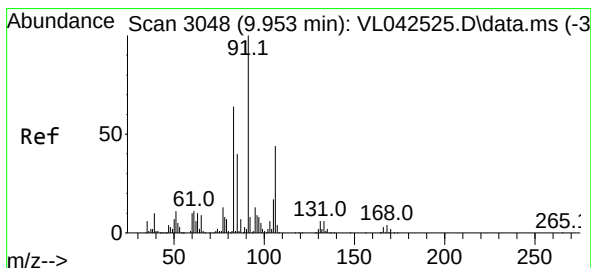
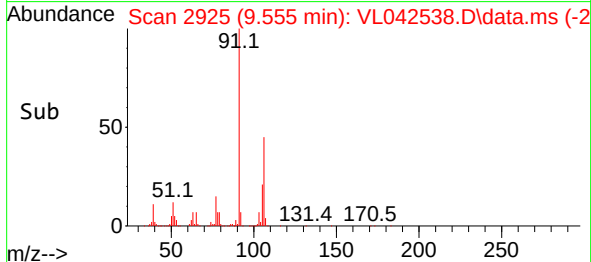
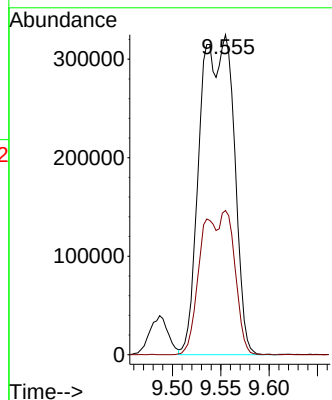
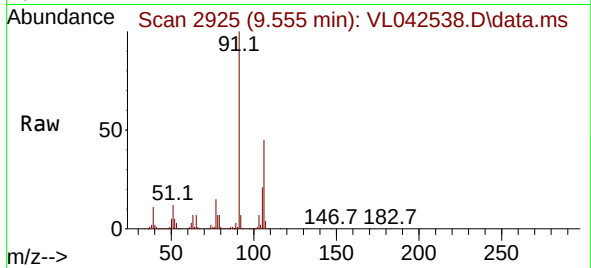
#59
m/p-Xylene
Concen: 22.159 ppbv m
RT: 9.555 min Scan# 2920
Delta R.T. 0.016 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

Instrument :
MSVOA_L
ClientSampleId :
VL0514ABS01

Tgt Ion: 91 Resp: 79487
Ion Ratio Lower Upper
91 100
106 44.5 0.0 0.0

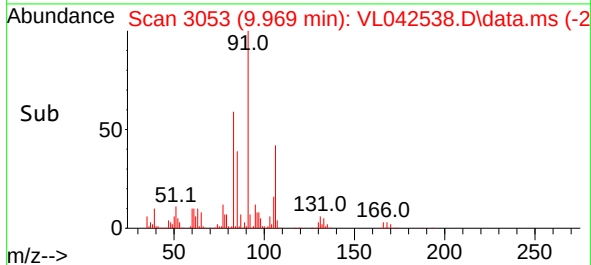
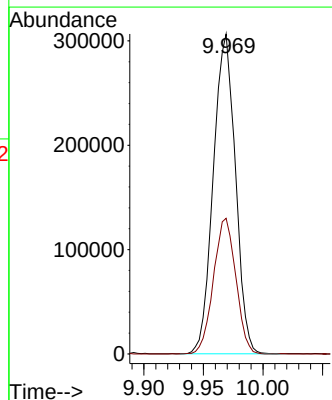
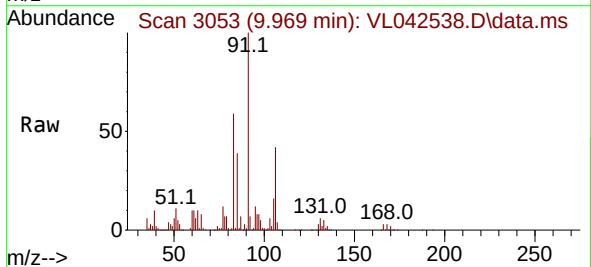
Manual Integrations
APPROVED

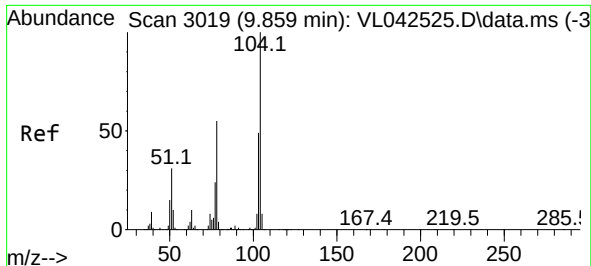
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#60
o-Xylene
Concen: 11.290 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. 0.016 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

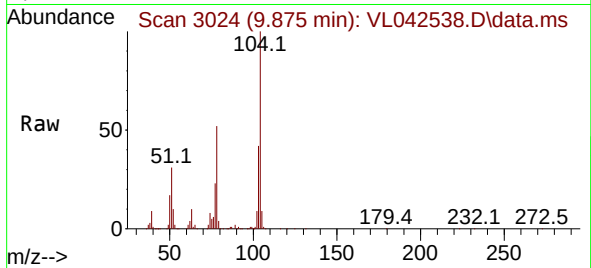
Tgt Ion: 91 Resp: 395533
Ion Ratio Lower Upper
91 100
106 42.9 21.6 64.6





#61
Styrene
Concen: 11.763 ppbv
RT: 9.875 min Scan# 3019
Delta R.T. 0.016 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

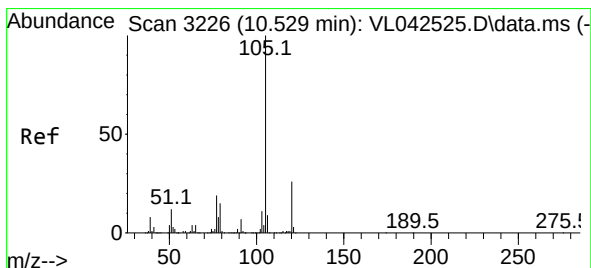
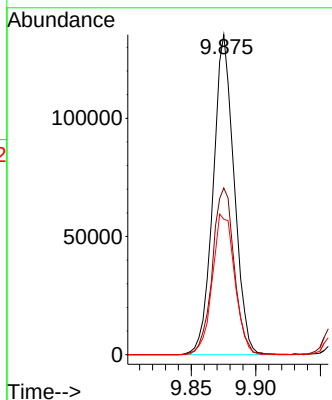
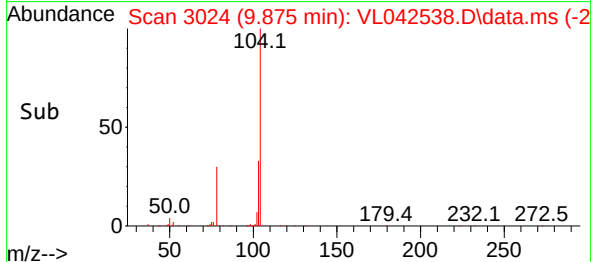
Instrument :
MSVOA_L
ClientSampleId :
VL0514ABS01



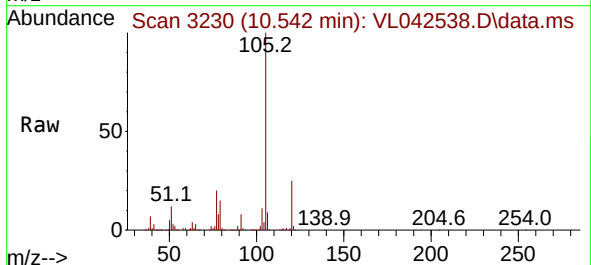
Tgt Ion:104 Resp: 152629
Ion Ratio Lower Upper
104 100
78 54.4 44.7 67.1
103 47.1 38.6 58.0

Manual Integrations
APPROVED

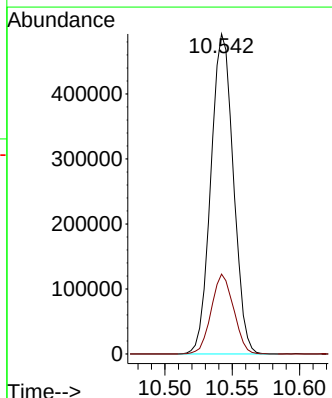
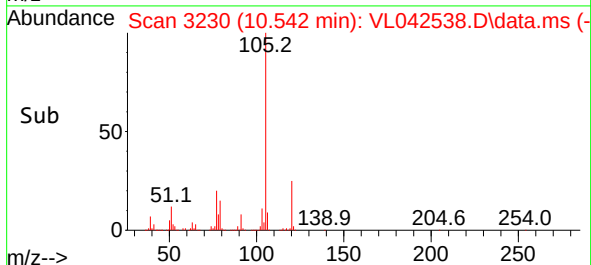
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025

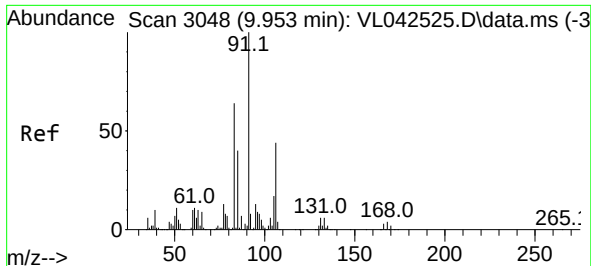


#62
Isopropylbenzene
Concen: 10.847 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. 0.013 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53



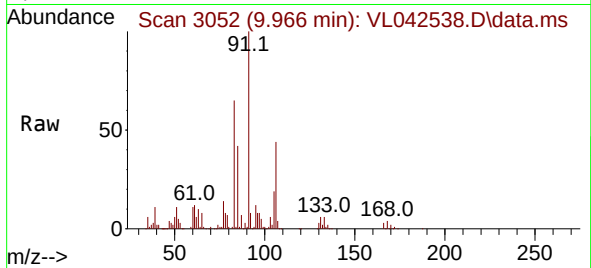
Tgt Ion:105 Resp: 572300
Ion Ratio Lower Upper
105 100
120 24.7 20.1 30.1





#63
1,1,2,2-Tetrachloroethane
Concen: 8.734 ppbv
RT: 9.966 min Scan# 3048
Delta R.T. 0.013 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

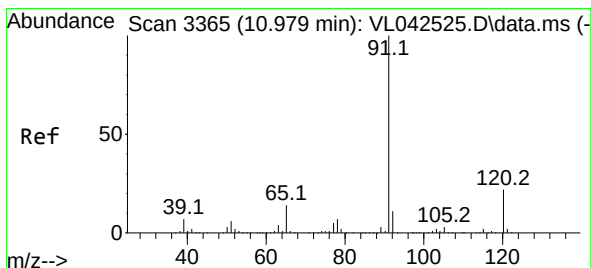
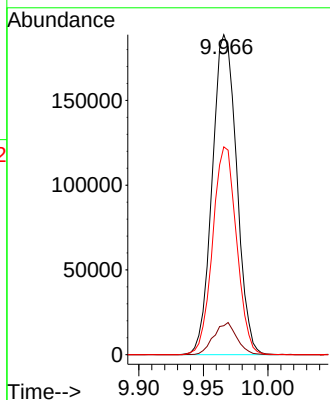
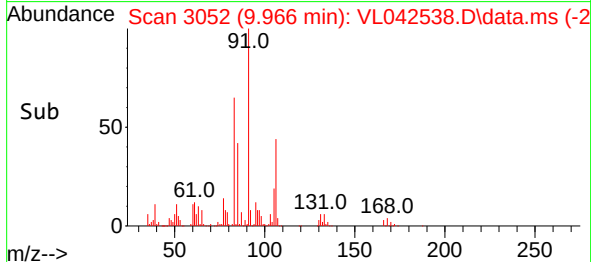
Instrument : MSVOA_L
ClientSampleId : VL0514ABS01



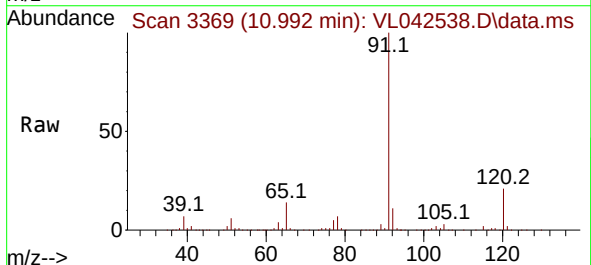
Tgt Ion: 83 Resp: 248344
Ion Ratio Lower Upper
83 100
131 9.5 4.9 14.7
85 63.6 32.3 96.8

Manual Integrations
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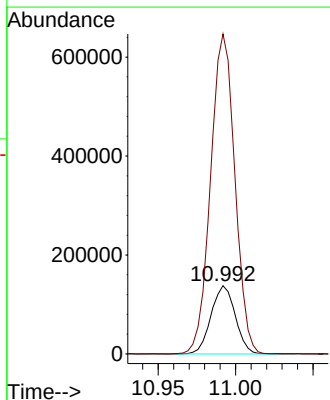
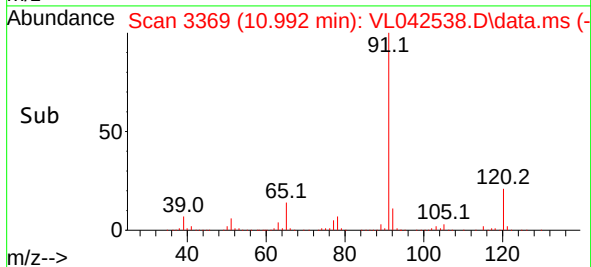
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025

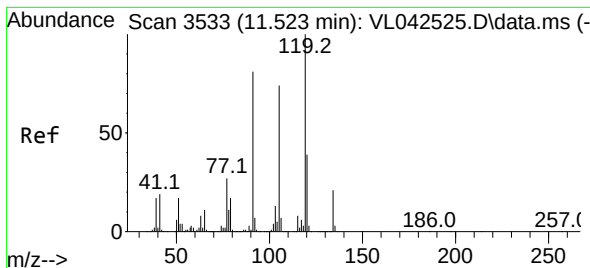


#64
n-propylbenzene
Concen: 11.156 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. 0.013 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53



Tgt Ion:120 Resp: 149437
Ion Ratio Lower Upper
120 100
91 472.6 377.7 566.5





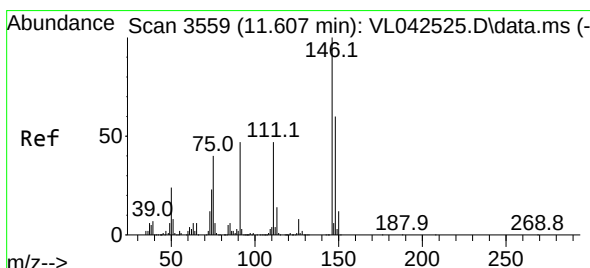
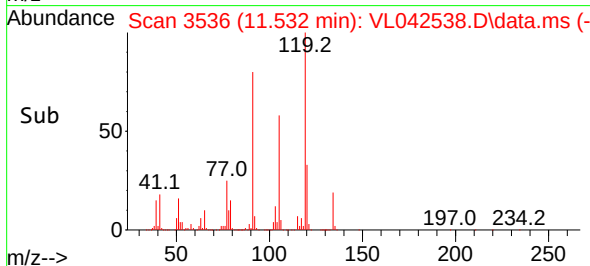
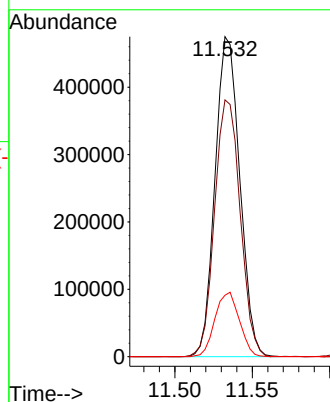
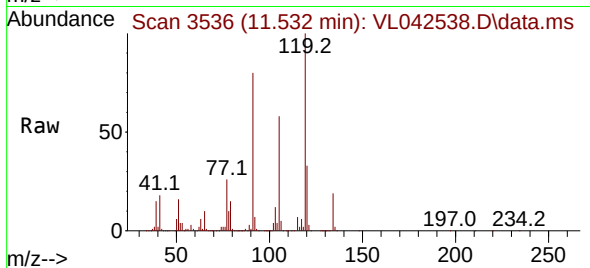
#65
tert-Butylbenzene
Concen: 10.878 ppbv
RT: 11.532 min Scan# 3533
Delta R.T. 0.010 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

Instrument :
MSVOA_L
ClientSampleId :
VL0514ABS01

Tgt Ion: 119 Resp: 52703
Ion Ratio Lower Upper
119 100
91 83.1 66.6 99.8
134 19.9 16.3 24.5

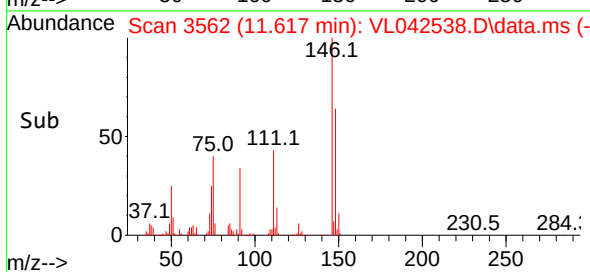
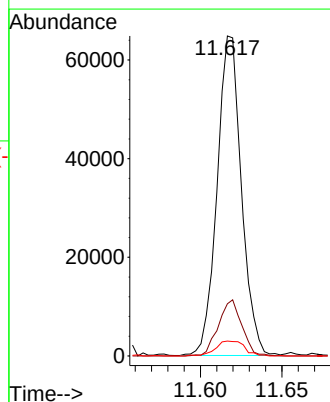
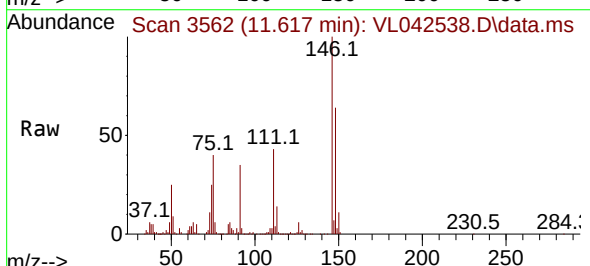
Manual Integrations
APPROVED

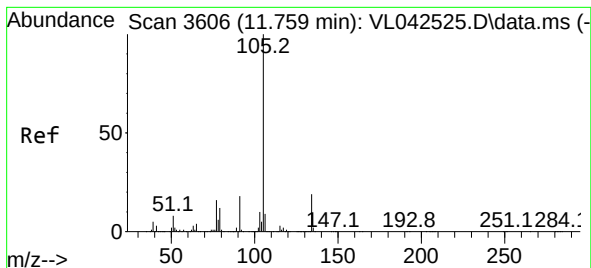
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#66
Benzyl Chloride
Concen: 10.445 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.010 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

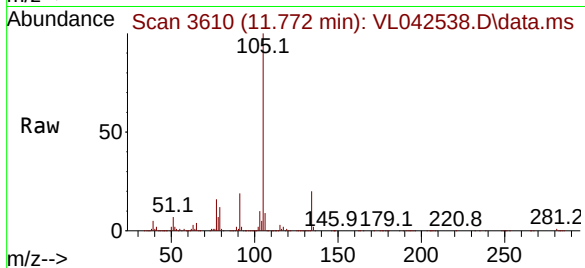
Tgt Ion: 91 Resp: 67242
Ion Ratio Lower Upper
91 100
126 16.9 13.7 20.5
128 5.6 4.2 6.2





#67
 sec-Butylbenzene
 Concen: 10.561 ppbv
 RT: 11.772 min Scan# 3610
 Delta R.T. 0.013 min
 Lab File: VL042538.D
 Acq: 14 May 2025 11:53

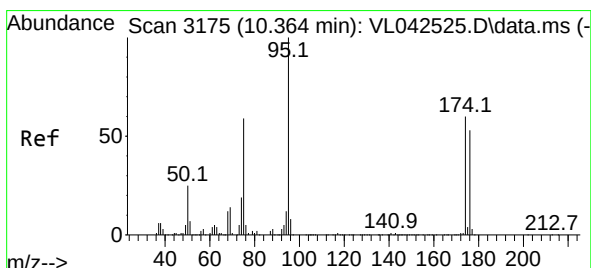
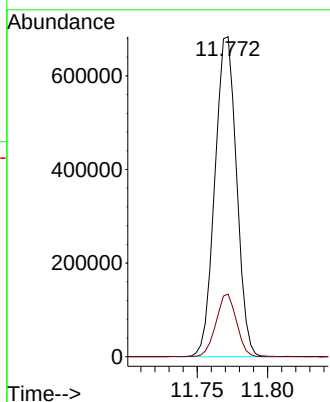
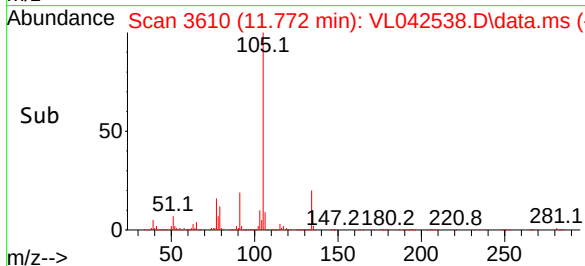
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0514ABS01



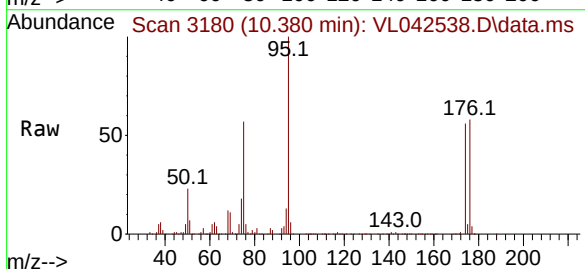
Tgt Ion: 105 Resp: 733600
 Ion Ratio Lower Upper
 105 100
 134 18.5 14.9 22.3

Manual Integrations
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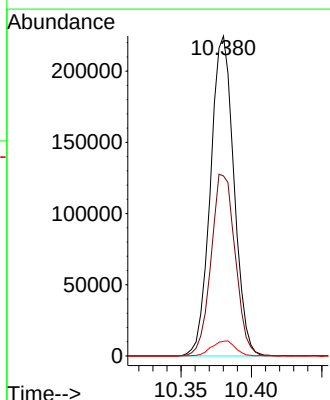
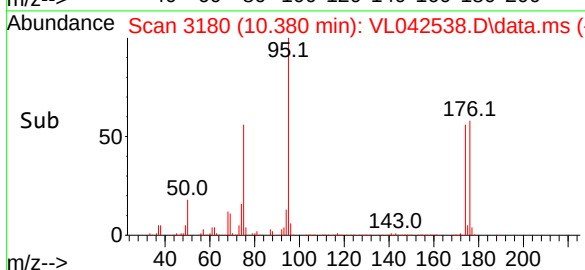
Reviewed By :Semsettin Yesilyurt 05/15/2025
 Supervised By :Mahesh Dadoda 05/15/2025

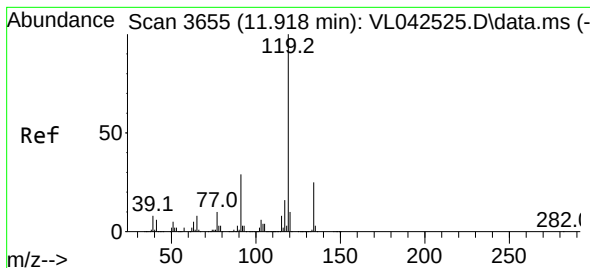


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.111 ppbv
 RT: 10.380 min Scan# 3180
 Delta R.T. 0.016 min
 Lab File: VL042538.D
 Acq: 14 May 2025 11:53



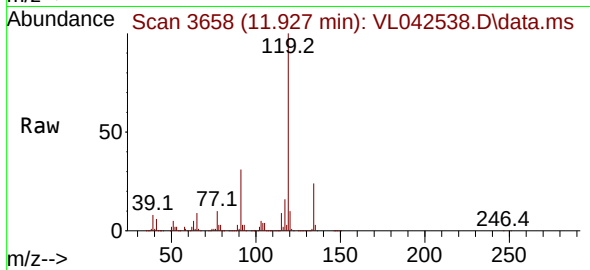
Tgt Ion: 95 Resp: 260716
 Ion Ratio Lower Upper
 95 100
 174 58.6 48.0 72.0
 175 4.8 3.5 5.3





#69
p-Isopropyltoluene
Concen: 11.129 ppbv
RT: 11.927 min Scan# 3658
Delta R.T. 0.010 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

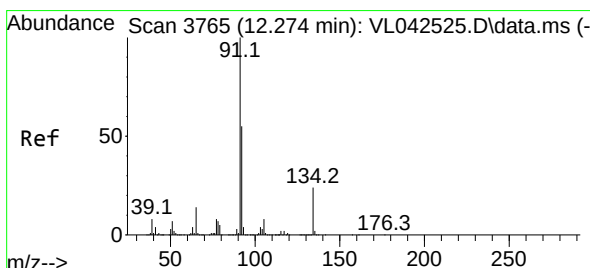
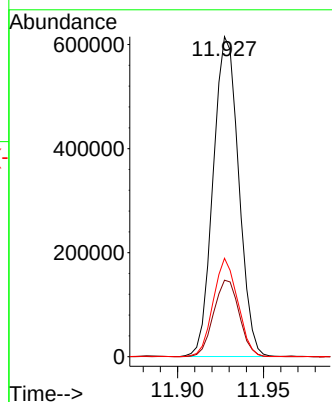
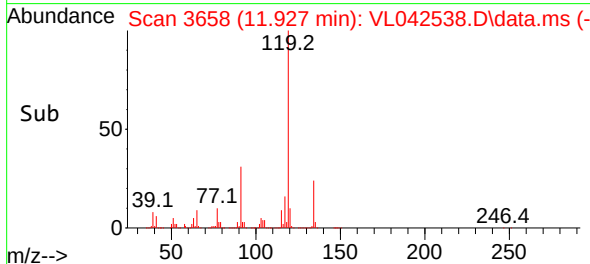
Instrument :
MSVOA_L
ClientSampleId :
VL0514ABS01



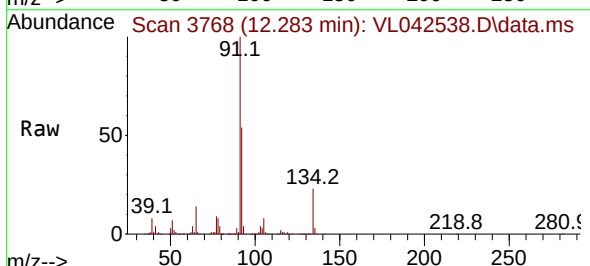
Tgt Ion:119 Resp: 63556
Ion Ratio Lower Upper
119 100
134 24.1 19.8 29.6
91 29.6 23.6 35.4

Manual Integrations
APPROVED

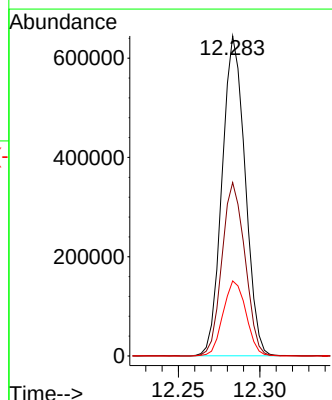
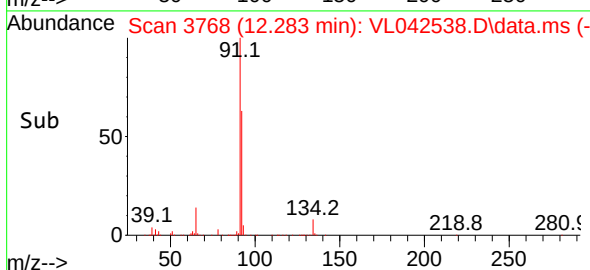
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025

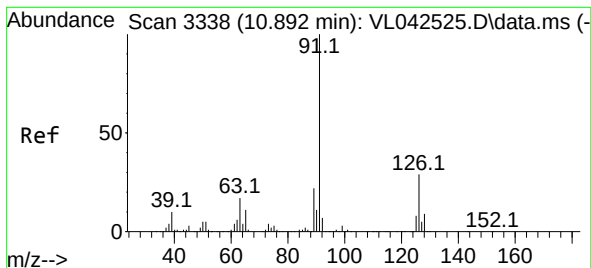


#70
n-Butylbenzene
Concen: 11.210 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. 0.010 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53



Tgt Ion: 91 Resp: 632577
Ion Ratio Lower Upper
91 100
92 54.3 43.7 65.5
134 23.4 18.9 28.3





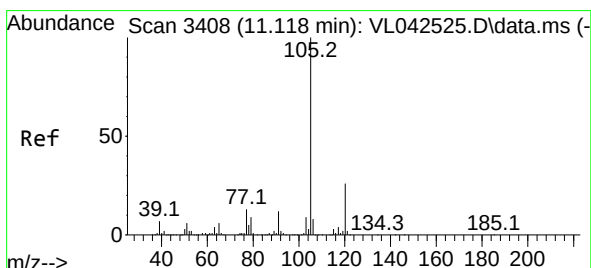
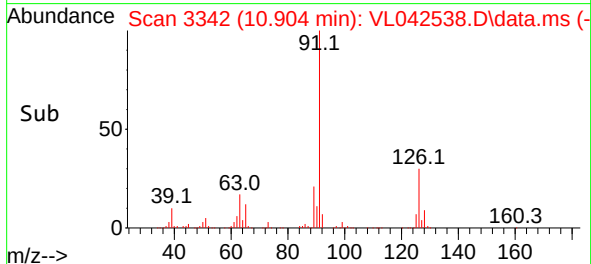
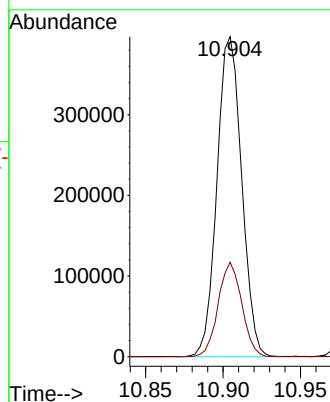
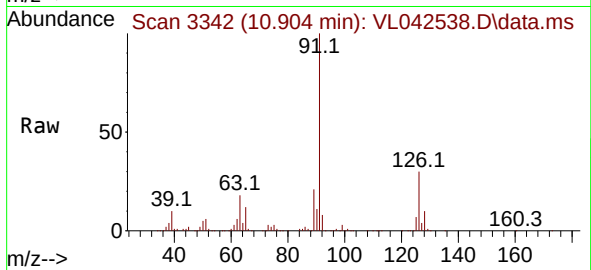
#71
2-Chlorotoluene
Concen: 11.010 ppbv
RT: 10.904 min Scan# 3410
Delta R.T. 0.013 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

Instrument :
MSVOA_L
ClientSampleId :
VL0514ABS01

Tgt Ion: 91 Resp: 439880
Ion Ratio Lower Upper
91 100
126 28.2 11.4 45.6

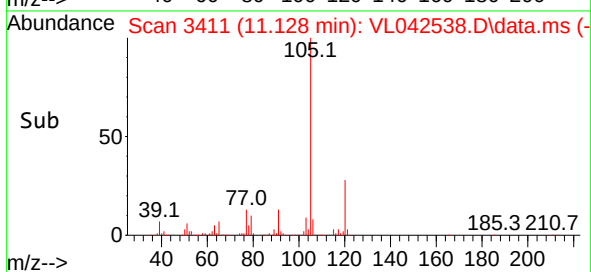
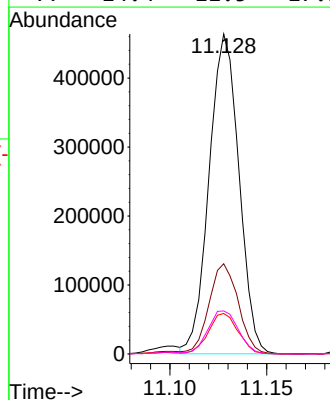
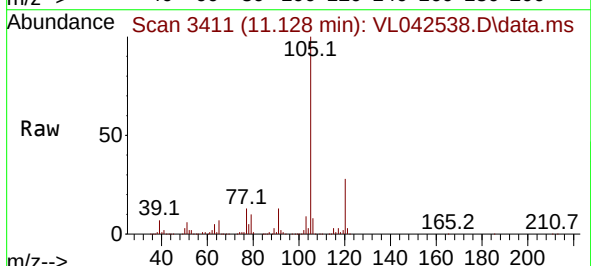
Manual Integrations
APPROVED

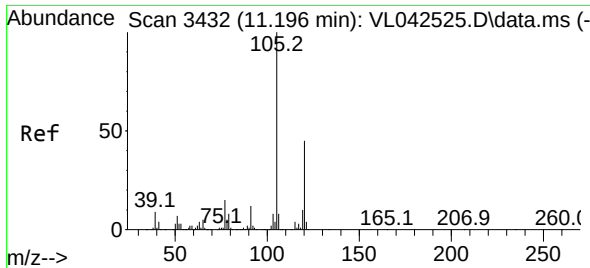
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#72
4-Ethyltoluene
Concen: 11.428 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.010 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

Tgt Ion:105 Resp: 496655
Ion Ratio Lower Upper
105 100
120 28.5 22.9 34.3
91 13.2 10.9 16.3
77 14.4 11.5 17.3





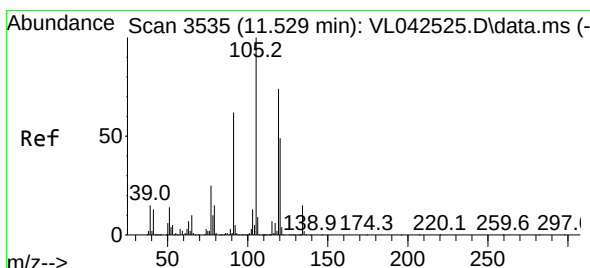
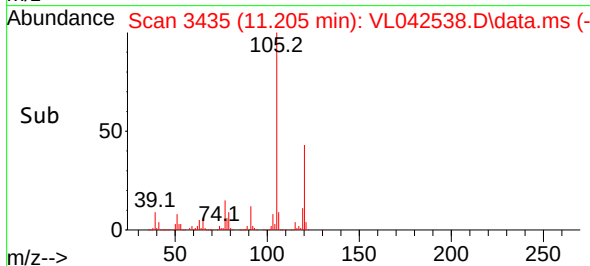
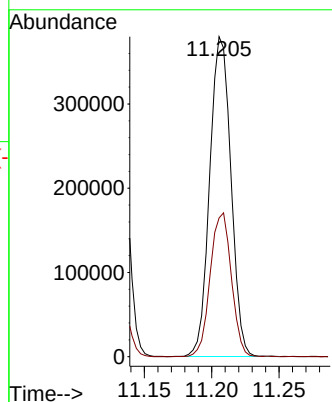
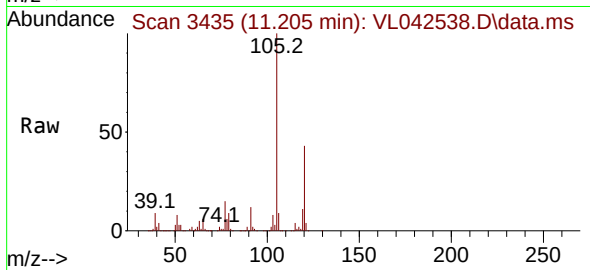
#73
1,3,5-Trimethylbenzene
Concen: 10.984 ppbv
RT: 11.205 min Scan# 3432
Delta R.T. 0.010 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

Instrument :
MSVOA_L
ClientSampleId :
VL0514ABS01

Tgt Ion:105 Resp: 41578
Ion Ratio Lower Upper
105 100
120 43.4 36.0 54.0

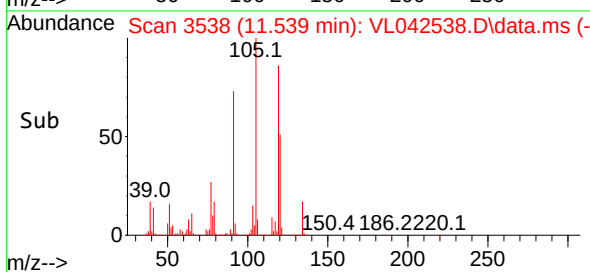
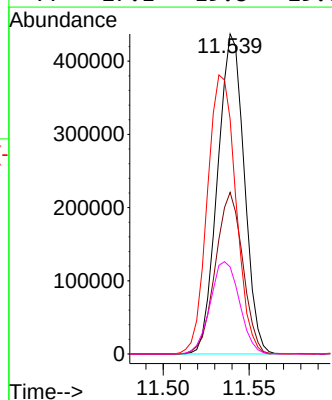
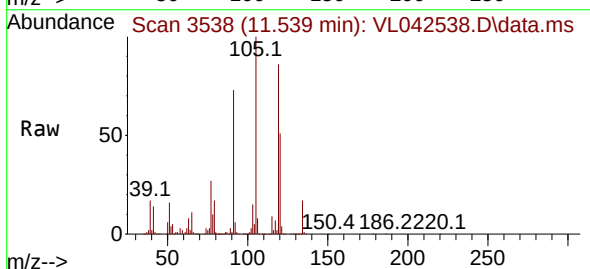
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APPROVED

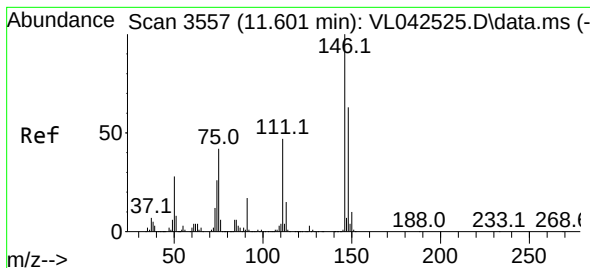
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#74
1,2,4-Trimethylbenzene
Concen: 10.114 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.010 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

Tgt Ion:105 Resp: 471038
Ion Ratio Lower Upper
105 100
120 50.5 39.0 58.6
91 73.3 49.4 74.2
77 27.1 19.8 29.6





#75

1,3-Dichlorobenzene

Concen: 9.675 ppbv

RT: 11.610 min Scan# 3557

Delta R.T. 0.010 min

Lab File: VL042538.D

Acq: 14 May 2025 11:53

Instrument :

MSVOA_L

ClientSampleId :

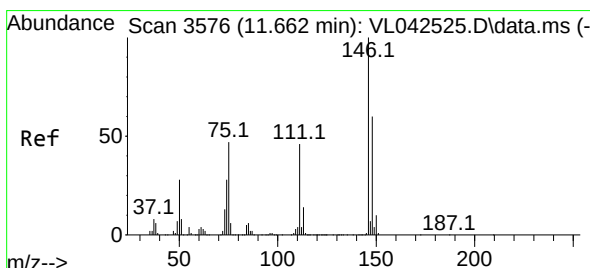
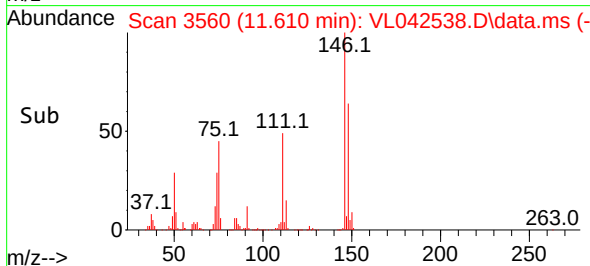
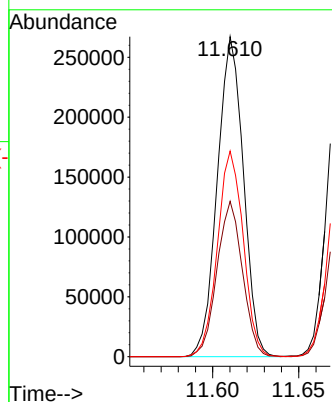
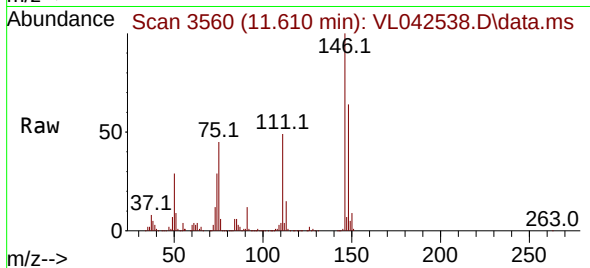
VL0514ABS01

Tgt Ion:	146	Resp:	28220
Ion Ratio	Lower	Upper	
146	100		
111	47.4	23.6	71.0
148	63.5	31.6	94.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#76

1,4-Dichlorobenzene

Concen: 9.900 ppbv

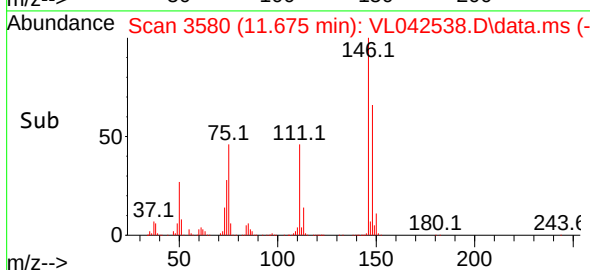
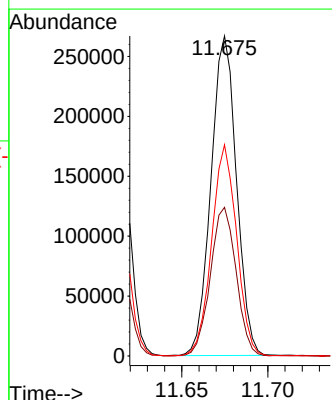
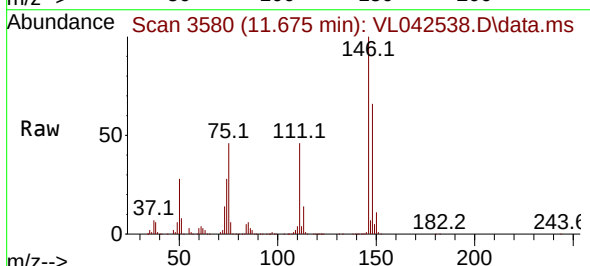
RT: 11.675 min Scan# 3580

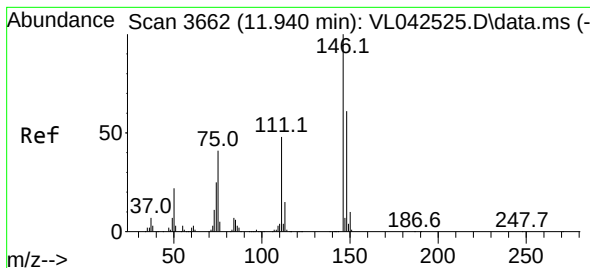
Delta R.T. 0.013 min

Lab File: VL042538.D

Acq: 14 May 2025 11:53

Tgt Ion:	146	Resp:	274722
Ion Ratio	Lower	Upper	
146	100		
111	47.3	23.4	70.3
148	65.0	31.6	94.7





#77

1,2-Dichlorobenzene

Concen: 8.948 ppbv

RT: 11.950 min Scan# 3665

Delta R.T. 0.010 min

Lab File: VL042538.D

Acq: 14 May 2025 11:53

Instrument :

MSVOA_L

ClientSampleId :

VL0514ABS01

Tgt Ion:146 Resp: 26958

Ion Ratio Lower Upper

146 100

111 49.8 24.9 74.8

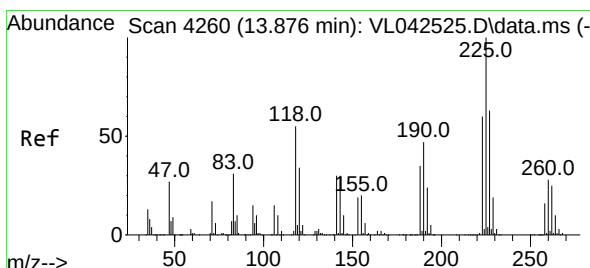
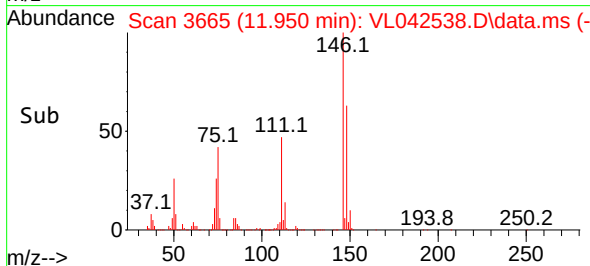
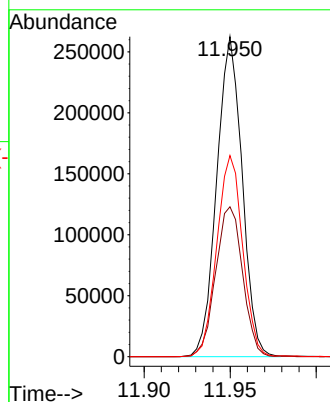
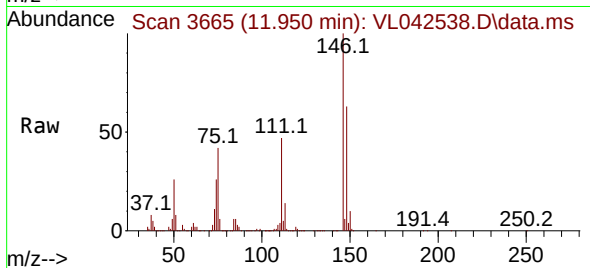
148 63.9 31.4 94.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/15/2025

Supervised By :Mahesh Dadoda 05/15/2025



#78

Hexachloro-1,3-Butadiene

Concen: 8.506 ppbv

RT: 13.882 min Scan# 4262

Delta R.T. 0.006 min

Lab File: VL042538.D

Acq: 14 May 2025 11:53

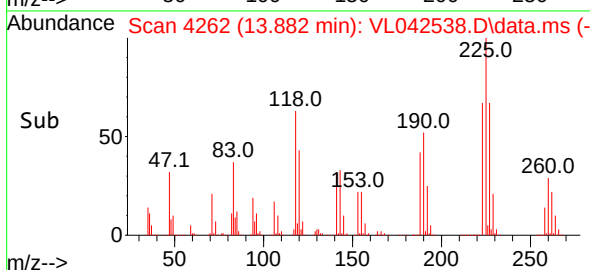
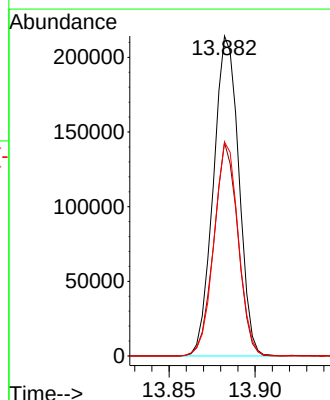
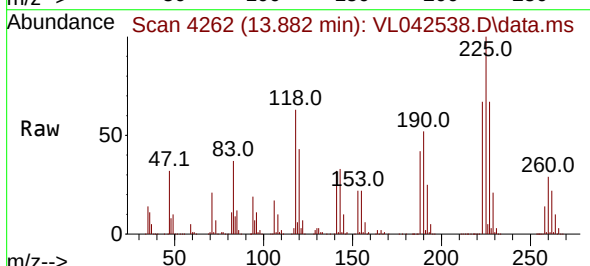
Tgt Ion:225 Resp: 219747

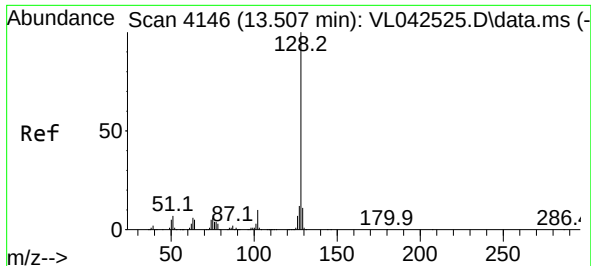
Ion Ratio Lower Upper

225 100

223 63.3 50.8 76.2

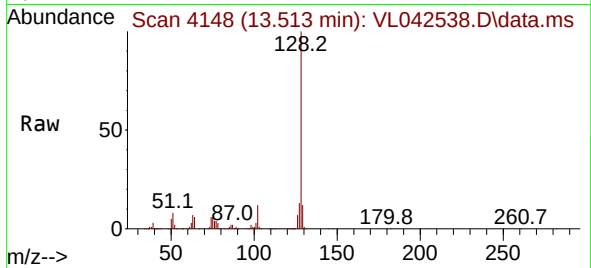
227 64.2 50.5 75.7





#79
Naphthalene
Concen: 13.557 ppbv
RT: 13.513 min Scan# 4146
Delta R.T. 0.006 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

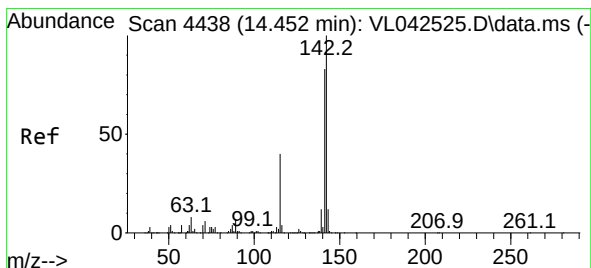
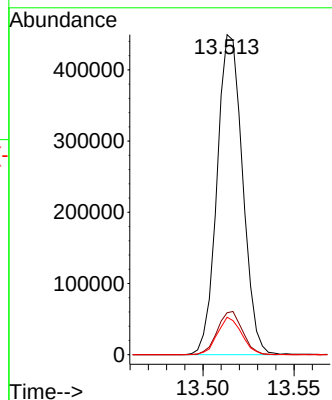
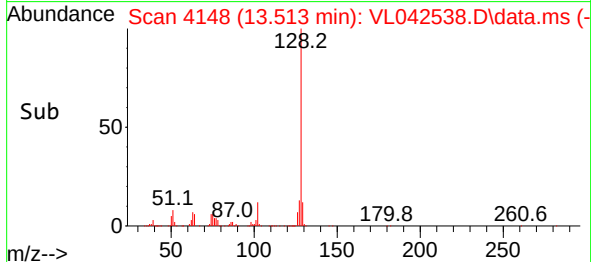
Instrument :
MSVOA_L
ClientSampleId :
VL0514ABS01



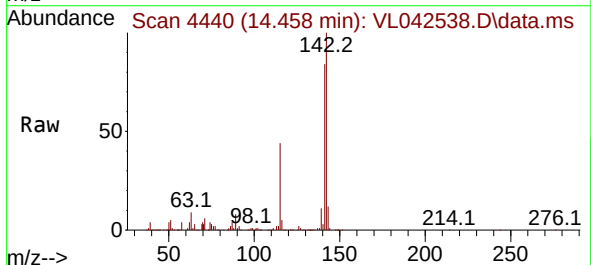
Tgt Ion:128 Resp: 43755
Ion Ratio Lower Upper
128 100
127 13.1 9.8 14.8
129 11.7 8.6 12.8

Manual Integrations
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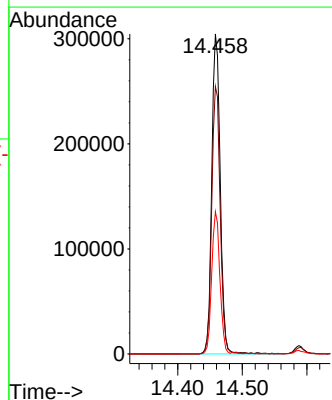
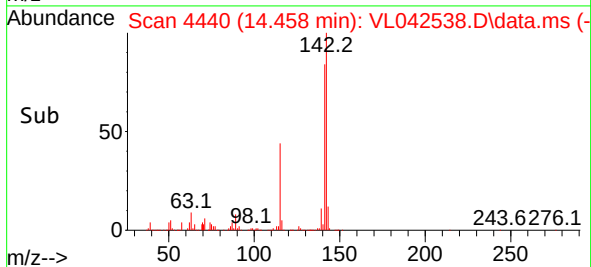
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025

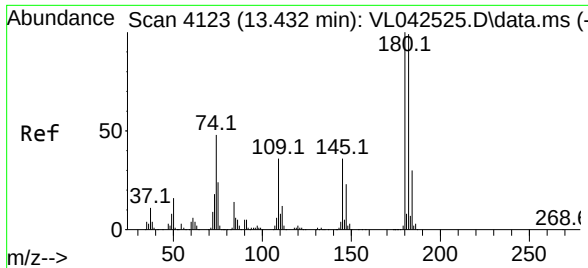


#80
Naphthalene,2-methyl-
Concen: 14.972 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. 0.006 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53



Tgt Ion:142 Resp: 278888
Ion Ratio Lower Upper
142 100
141 83.9 66.8 100.2
115 43.6 33.0 49.6





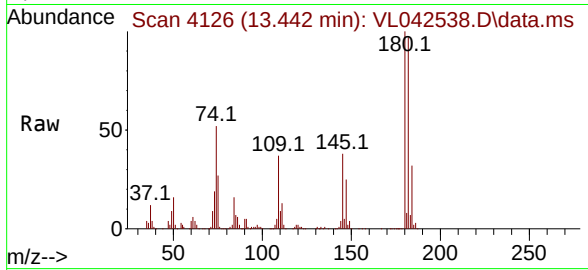
#81
 1,2,4-Trichlorobenzene
 Concen: 11.164 ppbv
 RT: 13.442 min Scan# 41
 Delta R.T. 0.010 min
 Lab File: VL042538.D
 Acq: 14 May 2025 11:53

Instrument :

MSVOA_L

ClientSampleId :

VL0514ABS01

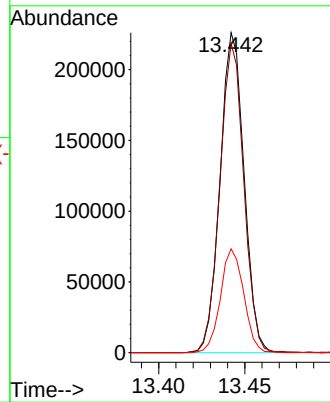
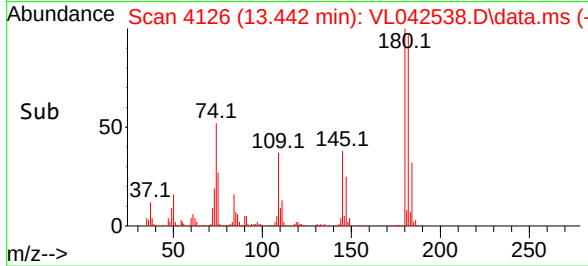


Tgt Ion:180 Resp: 21915
 Ion Ratio Lower Upper
 180 100
 182 96.7 76.6 114.8
 184 31.5 24.6 36.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/15/2025
 Supervised By :Mahesh Dadoda 05/15/2025



Manual Integration Report

Sequence:	VL051225	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC010	VL042525.D	4-Methyl-2-Pentanone	SAM	5/14/2025 9:06:24 AM	MMDadoda	5/14/2025 12:32:27 PM	Peak Integrated by Software
VSTDICCC010	VL042525.D	m/p-Xylene	SAM	5/14/2025 9:06:24 AM	MMDadoda	5/14/2025 12:32:27 PM	Peak Integrated by Software
VSTDICCC001	VL042527.D	1,1,2-Trichloroethane	SAM	5/14/2025 9:07:09 AM	MMDadoda	5/14/2025 12:32:32 PM	Peak Integrated by Software
VSTDICCC001	VL042527.D	1,2-Dibromoethane	SAM	5/14/2025 9:07:09 AM	MMDadoda	5/14/2025 12:32:32 PM	Peak Integrated by Software
VSTDICCC001	VL042527.D	1,2-Dichloropropane	SAM	5/14/2025 9:07:09 AM	MMDadoda	5/14/2025 12:32:32 PM	Peak Integrated by Software
VSTDICCC001	VL042527.D	1,4-Dioxane	SAM	5/14/2025 9:07:09 AM	MMDadoda	5/14/2025 12:32:32 PM	Peak Integrated by Software
VSTDICCC001	VL042527.D	2,2,4-Trimethylpentane	SAM	5/14/2025 9:07:09 AM	MMDadoda	5/14/2025 12:32:32 PM	Peak Integrated by Software
VSTDICCC001	VL042527.D	2-Hexanone	SAM	5/14/2025 9:07:09 AM	MMDadoda	5/14/2025 12:32:32 PM	Peak Integrated by Software
VSTDICCC001	VL042527.D	4-Methyl-2-Pentanone	SAM	5/14/2025 9:07:09 AM	MMDadoda	5/14/2025 12:32:32 PM	Peak Integrated by Software
VSTDICCC001	VL042527.D	Bromodichloromethane	SAM	5/14/2025 9:07:09 AM	MMDadoda	5/14/2025 12:32:32 PM	Peak Integrated by Software
VSTDICCC001	VL042527.D	cis-1,3-Dichloropropene	SAM	5/14/2025 9:07:09 AM	MMDadoda	5/14/2025 12:32:32 PM	Peak Integrated by Software
VSTDICCC001	VL042527.D	Cyclohexane	SAM	5/14/2025 9:07:09 AM	MMDadoda	5/14/2025 12:32:32 PM	Peak Integrated by Software
VSTDICCC001	VL042527.D	Ethanol	SAM	5/14/2025 9:07:09 AM	MMDadoda	5/14/2025 12:32:32 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

VL051225

Instrument

MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VL042527.D	Ethyl Benzene	SAM	5/14/2025 9:07:09 AM	MMDadoda	5/14/2025 12:32:32 PM	Peak Integrated by Software
VSTDICC001	VL042527.D	Heptane	SAM	5/14/2025 9:07:09 AM	MMDadoda	5/14/2025 12:32:32 PM	Peak Integrated by Software
VSTDICC001	VL042527.D	m/p-Xylene	SAM	5/14/2025 9:07:09 AM	MMDadoda	5/14/2025 12:32:32 PM	Peak Integrated by Software
VSTDICC001	VL042527.D	Methyl Methacrylate	SAM	5/14/2025 9:07:09 AM	MMDadoda	5/14/2025 12:32:32 PM	Peak Integrated by Software
VSTDICC001	VL042527.D	t-1,3-Dichloropropene	SAM	5/14/2025 9:07:09 AM	MMDadoda	5/14/2025 12:32:32 PM	Peak Integrated by Software
VSTDICC001	VL042527.D	Tetrachloroethene	SAM	5/14/2025 9:07:09 AM	MMDadoda	5/14/2025 12:32:32 PM	Peak Integrated by Software
VSTDICC001	VL042527.D	Toluene	SAM	5/14/2025 9:07:09 AM	MMDadoda	5/14/2025 12:32:32 PM	Peak Integrated by Software
VSTDICC001	VL042527.D	Trichloroethene	SAM	5/14/2025 9:07:09 AM	MMDadoda	5/14/2025 12:32:32 PM	Peak Integrated by Software
VSTDICC0.5	VL042528.D	1,1,2-Trichloroethane	SAM	5/14/2025 9:06:34 AM	MMDadoda	5/14/2025 12:32:36 PM	Peak Integrated by Software
VSTDICC0.5	VL042528.D	1,1-Dichloroethene	SAM	5/14/2025 9:06:34 AM	MMDadoda	5/14/2025 12:32:36 PM	Peak Integrated by Software
VSTDICC0.5	VL042528.D	1,2-Dibromoethane	SAM	5/14/2025 9:06:34 AM	MMDadoda	5/14/2025 12:32:36 PM	Peak Integrated by Software
VSTDICC0.5	VL042528.D	1,2-Dichloropropane	SAM	5/14/2025 9:06:34 AM	MMDadoda	5/14/2025 12:32:36 PM	Peak Integrated by Software
VSTDICC0.5	VL042528.D	1,3,5-Trimethylbenzene	SAM	5/14/2025 9:06:34 AM	MMDadoda	5/14/2025 12:32:36 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL051225	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.5	VL042528.D	1,4-Dioxane	SAM	5/14/2025 9:06:34 AM	MMDadoda	5/14/2025 12:32:36 PM	Peak Integrated by Software
VSTDICC0.5	VL042528.D	2,2,4-Trimethylpentane	SAM	5/14/2025 9:06:34 AM	MMDadoda	5/14/2025 12:32:36 PM	Peak Integrated by Software
VSTDICC0.5	VL042528.D	2-Hexanone	SAM	5/14/2025 9:06:34 AM	MMDadoda	5/14/2025 12:32:36 PM	Peak Integrated by Software
VSTDICC0.5	VL042528.D	4-Methyl-2-Pentanone	SAM	5/14/2025 9:06:34 AM	MMDadoda	5/14/2025 12:32:36 PM	Peak Integrated by Software
VSTDICC0.5	VL042528.D	Acetone	SAM	5/14/2025 9:06:34 AM	MMDadoda	5/14/2025 12:32:36 PM	Peak Integrated by Software
VSTDICC0.5	VL042528.D	Benzyl Chloride	SAM	5/14/2025 9:06:34 AM	MMDadoda	5/14/2025 12:32:36 PM	Peak Integrated by Software
VSTDICC0.5	VL042528.D	Bromodichloromethane	SAM	5/14/2025 9:06:34 AM	MMDadoda	5/14/2025 12:32:36 PM	Peak Integrated by Software
VSTDICC0.5	VL042528.D	Carbon Tetrachloride	SAM	5/14/2025 9:06:34 AM	MMDadoda	5/14/2025 12:32:36 PM	Peak Integrated by Software
VSTDICC0.5	VL042528.D	cis-1,3-Dichloropropene	SAM	5/14/2025 9:06:34 AM	MMDadoda	5/14/2025 12:32:36 PM	Peak Integrated by Software
VSTDICC0.5	VL042528.D	Cyclohexane	SAM	5/14/2025 9:06:34 AM	MMDadoda	5/14/2025 12:32:36 PM	Peak Integrated by Software
VSTDICC0.5	VL042528.D	Dibromochloromethane	SAM	5/14/2025 9:06:34 AM	MMDadoda	5/14/2025 12:32:36 PM	Peak Integrated by Software
VSTDICC0.5	VL042528.D	Ethyl Acetate	SAM	5/14/2025 9:06:34 AM	MMDadoda	5/14/2025 12:32:36 PM	Peak Integrated by Software
VSTDICC0.5	VL042528.D	Heptane	SAM	5/14/2025 9:06:34 AM	MMDadoda	5/14/2025 12:32:36 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

VL051225

Instrument

MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.5	VL042528.D	m/p-Xylene	SAM	5/14/2025 9:06:34 AM	MMDadoda	5/14/2025 12:32:36 PM	Peak Integrated by Software
VSTDICC0.5	VL042528.D	Methyl Methacrylate	SAM	5/14/2025 9:06:34 AM	MMDadoda	5/14/2025 12:32:36 PM	Peak Integrated by Software
VSTDICC0.5	VL042528.D	n-propylbenzene	SAM	5/14/2025 9:06:34 AM	MMDadoda	5/14/2025 12:32:36 PM	Peak Integrated by Software
VSTDICC0.5	VL042528.D	o-Xylene	SAM	5/14/2025 9:06:34 AM	MMDadoda	5/14/2025 12:32:36 PM	Peak Integrated by Software
VSTDICC0.5	VL042528.D	Styrene	SAM	5/14/2025 9:06:34 AM	MMDadoda	5/14/2025 12:32:36 PM	Peak Integrated by Software
VSTDICC0.5	VL042528.D	t-1,3-Dichloropropene	SAM	5/14/2025 9:06:34 AM	MMDadoda	5/14/2025 12:32:36 PM	Peak Integrated by Software
VSTDICC0.5	VL042528.D	Tetrachloroethene	SAM	5/14/2025 9:06:34 AM	MMDadoda	5/14/2025 12:32:36 PM	Peak Integrated by Software
VSTDICC0.5	VL042528.D	Tetrahydrofuran	SAM	5/14/2025 9:06:34 AM	MMDadoda	5/14/2025 12:32:36 PM	Peak Integrated by Software
VSTDICC0.5	VL042528.D	Toluene	SAM	5/14/2025 9:06:34 AM	MMDadoda	5/14/2025 12:32:36 PM	Peak Integrated by Software
VSTDICC0.5	VL042528.D	Trichloroethene	SAM	5/14/2025 9:06:34 AM	MMDadoda	5/14/2025 12:32:36 PM	Peak Integrated by Software
VSTDICC0.1	VL042529.D	1,1,2,2-Tetrachloroethane	SAM	5/14/2025 9:06:53 AM	MMDadoda	5/14/2025 12:32:37 PM	Peak Integrated by Software
VSTDICC0.1	VL042529.D	1,2-Dibromoethane	SAM	5/14/2025 9:06:53 AM	MMDadoda	5/14/2025 12:32:37 PM	Peak Integrated by Software
VSTDICC0.1	VL042529.D	Carbon Tetrachloride	SAM	5/14/2025 9:06:53 AM	MMDadoda	5/14/2025 12:32:37 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL051225	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.1	VL042529.D	Naphthalene	SAM	5/14/2025 9:06:53 AM	MMDadoda	5/14/2025 12:32:37 PM	Peak Integrated by Software
VSTDICC0.1	VL042529.D	Tetrachloroethene	SAM	5/14/2025 9:06:53 AM	MMDadoda	5/14/2025 12:32:37 PM	Peak Integrated by Software
VSTDICC0.1	VL042529.D	Trichloroethene	SAM	5/14/2025 9:06:53 AM	MMDadoda	5/14/2025 12:32:37 PM	Peak Integrated by Software
VSTDICC0.03	VL042530.D	1,1,1-Trichloroethane	SAM	5/14/2025 9:07:15 AM	MMDadoda	5/14/2025 12:32:43 PM	Peak Integrated by Software
VSTDICC0.03	VL042530.D	1,1,2,2-Tetrachloroethane	SAM	5/14/2025 9:07:15 AM	MMDadoda	5/14/2025 12:32:43 PM	Peak Integrated by Software
VSTDICC0.03	VL042530.D	Carbon Tetrachloride	SAM	5/14/2025 9:07:15 AM	MMDadoda	5/14/2025 12:32:43 PM	Peak Integrated by Software
VSTDICC0.03	VL042530.D	Tetrachloroethene	SAM	5/14/2025 9:07:15 AM	MMDadoda	5/14/2025 12:32:43 PM	Peak Integrated by Software
VSTDICC0.03	VL042530.D	Trichloroethene	SAM	5/14/2025 9:07:15 AM	MMDadoda	5/14/2025 12:32:43 PM	Peak Integrated by Software
VSTDICC002	VL042532.D	1,1,2-Trichloroethane	SAM	5/14/2025 9:06:48 AM	MMDadoda	5/14/2025 12:32:46 PM	Peak Integrated by Software
VSTDICC002	VL042532.D	1,4-Dioxane	SAM	5/14/2025 9:06:48 AM	MMDadoda	5/14/2025 12:32:46 PM	Peak Integrated by Software
VSTDICC002	VL042532.D	2,2,4-Trimethylpentane	SAM	5/14/2025 9:06:48 AM	MMDadoda	5/14/2025 12:32:46 PM	Peak Integrated by Software
VSTDICC002	VL042532.D	Benzyl Chloride	SAM	5/14/2025 9:06:48 AM	MMDadoda	5/14/2025 12:32:46 PM	Peak Integrated by Software
VSTDICC002	VL042532.D	Chloroethane	SAM	5/14/2025 9:06:48 AM	MMDadoda	5/14/2025 12:32:46 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL051225	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC002	VL042532.D	cis-1,3-Dichloropropene	SAM	5/14/2025 9:06:48 AM	MMDadoda	5/14/2025 12:32:46 PM	Peak Integrated by Software
VSTDICC002	VL042532.D	m/p-Xylene	SAM	5/14/2025 9:06:48 AM	MMDadoda	5/14/2025 12:32:46 PM	Peak Integrated by Software
VSTDICC002	VL042532.D	Methyl Methacrylate	SAM	5/14/2025 9:06:48 AM	MMDadoda	5/14/2025 12:32:46 PM	Peak Integrated by Software
VSTDICC002	VL042532.D	Styrene	SAM	5/14/2025 9:06:48 AM	MMDadoda	5/14/2025 12:32:46 PM	Peak Integrated by Software
VSTDICC002	VL042532.D	t-1,3-Dichloropropene	SAM	5/14/2025 9:06:48 AM	MMDadoda	5/14/2025 12:32:46 PM	Peak Integrated by Software
VSTDICC002	VL042532.D	Tetrahydrofuran	SAM	5/14/2025 9:06:48 AM	MMDadoda	5/14/2025 12:32:46 PM	Peak Integrated by Software
VSTDICC002	VL042532.D	Trichloroethene	SAM	5/14/2025 9:06:48 AM	MMDadoda	5/14/2025 12:32:46 PM	Peak Integrated by Software
VSTDICC015	VL042533.D	1,4-Dioxane	SAM	5/14/2025 9:07:21 AM	MMDadoda	5/14/2025 12:32:47 PM	Peak Integrated by Software
VSTDICC015	VL042533.D	m/p-Xylene	SAM	5/14/2025 9:07:21 AM	MMDadoda	5/14/2025 12:32:47 PM	Peak Integrated by Software
VSTDICV010	VL042534.D	m/p-Xylene	SAM	5/14/2025 9:06:44 AM	MMDadoda	5/14/2025 12:32:52 PM	Peak Integrated by Software
VSTDICV010	VL042534.D	Propene	SAM	5/14/2025 9:06:44 AM	MMDadoda	5/14/2025 12:32:52 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL051425	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL042536.D	m/p-Xylene	SAM	5/15/2025 10:11:33 AM	MMDadoda	5/15/2025 2:31:03 PM	Peak Integrated by Software
VSTDCCC010	VL042536.D	Methyl Methacrylate	SAM	5/15/2025 10:11:33 AM	MMDadoda	5/15/2025 2:31:03 PM	Peak Integrated by Software
VSTDCCC010	VL042536.D	Propene	SAM	5/15/2025 10:11:33 AM	MMDadoda	5/15/2025 2:31:03 PM	Peak Integrated by Software
VL0514ABS01	VL042538.D	m/p-Xylene	SAM	5/15/2025 10:11:42 AM	MMDadoda	5/15/2025 2:31:05 PM	Peak Integrated by Software
Q2037-02	VL042541.D	2,2,4-Trimethylpentane	SAM	5/15/2025 10:11:59 AM	MMDadoda	5/15/2025 2:31:10 PM	Peak Integrated by Software
Q2037-02	VL042541.D	Acetone	SAM	5/15/2025 10:11:59 AM	MMDadoda	5/15/2025 2:31:10 PM	Peak Integrated by Software
Q2037-02	VL042541.D	Carbon Tetrachloride	SAM	5/15/2025 10:11:59 AM	MMDadoda	5/15/2025 2:31:10 PM	Peak Integrated by Software
Q2037-02	VL042541.D	Chlorodifluoromethane	SAM	5/15/2025 10:11:59 AM	MMDadoda	5/15/2025 2:31:10 PM	Peak Integrated by Software
Q2037-02	VL042541.D	Heptane	SAM	5/15/2025 10:11:59 AM	MMDadoda	5/15/2025 2:31:10 PM	Peak Integrated by Software
Q2037-02	VL042541.D	n-propylbenzene	SAM	5/15/2025 10:11:59 AM	MMDadoda	5/15/2025 2:31:10 PM	Peak Integrated by Software
Q2037-02	VL042541.D	Tetrahydrofuran	SAM	5/15/2025 10:11:59 AM	MMDadoda	5/15/2025 2:31:10 PM	Peak Integrated by Software
Q2037-02DUP	VL042542.D	2,2,4-Trimethylpentane	SAM	5/15/2025 10:12:26 AM	MMDadoda	5/15/2025 2:31:12 PM	Peak Integrated by Software
Q2037-02DUP	VL042542.D	Acetone	SAM	5/15/2025 10:12:26 AM	MMDadoda	5/15/2025 2:31:12 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

VL051425

Instrument

MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q2037-02DUP	VL042542.D	Carbon Tetrachloride	SAM	5/15/2025 10:12:26 AM	MMDadoda	5/15/2025 2:31:12 PM	Peak Integrated by Software
Q2037-02DUP	VL042542.D	Chlorodifluoromethane	SAM	5/15/2025 10:12:26 AM	MMDadoda	5/15/2025 2:31:12 PM	Peak Integrated by Software
Q2037-02DUP	VL042542.D	Heptane	SAM	5/15/2025 10:12:26 AM	MMDadoda	5/15/2025 2:31:12 PM	Peak Integrated by Software
Q2037-02DUP	VL042542.D	n-propylbenzene	SAM	5/15/2025 10:12:26 AM	MMDadoda	5/15/2025 2:31:12 PM	Peak Integrated by Software
Q2037-02DUP	VL042542.D	Styrene	SAM	5/15/2025 10:12:26 AM	MMDadoda	5/15/2025 2:31:12 PM	Peak Integrated by Software
Q2037-02DUP	VL042542.D	Tetrachloroethene	SAM	5/15/2025 10:12:26 AM	MMDadoda	5/15/2025 2:31:12 PM	Peak Integrated by Software
Q2037-01	VL042543.D	Chlorodifluoromethane	SAM	5/15/2025 10:11:54 AM	MMDadoda	5/15/2025 2:31:14 PM	Peak Integrated by Software
Q2037-01	VL042543.D	Heptane	SAM	5/15/2025 10:11:54 AM	MMDadoda	5/15/2025 2:31:14 PM	Peak Integrated by Software
Q2037-01	VL042543.D	sec-Butylbenzene	SAM	5/15/2025 10:11:54 AM	MMDadoda	5/15/2025 2:31:14 PM	Peak Integrated by Software
Q2037-01	VL042543.D	Tetrachloroethene	SAM	5/15/2025 10:11:54 AM	MMDadoda	5/15/2025 2:31:14 PM	Peak Integrated by Software

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QCBatch ID # VL051225

Review By	Semsettin Yesilyurt	Review On	5/14/2025 9:07:47 AM		
Supervise By	Maresh Dadoda	Supervise On	5/14/2025 12:32:58 PM		
SubDirectory	VL051225	HP Acquire Method	TO15AIR.M	HP Processing Method	VL051225AIR.M
STD. NAME		STD REF.#			
Tune/Reschk	AP2604				
Initial Calibration Stds	AP2610,AP2611,AP2612				
CCC					
Internal Standard/PEM	AP2604				
ICV/I.BLK	AP2613				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042524.D	12 May 2025 07:58	SY/MD	Ok
2	VSTDICCC010	VL042525.D	12 May 2025 08:57	SY/MD	Ok,M
3	VSTDICCC002	VL042526.D	12 May 2025 09:33	SY/MD	Not Ok
4	VSTDICCC001	VL042527.D	12 May 2025 10:07	SY/MD	Ok,M
5	VSTDICCC0.5	VL042528.D	12 May 2025 10:41	SY/MD	Ok,M
6	VSTDICCC0.1	VL042529.D	12 May 2025 11:15	SY/MD	Ok,M
7	VSTDICCC0.03	VL042530.D	12 May 2025 11:49	SY/MD	Ok,M
8	VSTDICCC010	VL042531.D	12 May 2025 12:22	SY/MD	Not Ok
9	VSTDICCC002	VL042532.D	12 May 2025 12:58	SY/MD	Ok,M
10	VSTDICCC015	VL042533.D	12 May 2025 14:28	SY/MD	Ok,M
11	VSTDICV010	VL042534.D	12 May 2025 16:10	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL051425

Review By	Semsettin Yesilyurt	Review On	5/15/2025 10:12:52 AM		
Supervise By	Mahesh Dadoda	Supervise On	5/15/2025 2:31:22 PM		
SubDirectory	VL051425	HP Acquire Method	TO15AIR.M	HP Processing Method	VL051225AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2614			
Initial Calibration Stds		AP2610,AP2611,AP2612			
CCC		AP2616			
Internal Standard/PEM		AP2614			
ICV/I.BLK		AP2613			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042535.D	14 May 2025 09:38	SY/MD	Ok
2	VSTDCCC010	VL042536.D	14 May 2025 10:23	SY/MD	Ok,M
3	VL0514ABL01	VL042537.D	14 May 2025 11:09	SY/MD	Ok
4	VL0514ABS01	VL042538.D	14 May 2025 11:53	SY/MD	Ok,M
5	Q2011-02	VL042539.D	14 May 2025 12:40	SY/MD	Ok,M
6	Q2011-01	VL042540.D	14 May 2025 13:12	SY/MD	Ok,M
7	Q2037-02	VL042541.D	14 May 2025 14:15	SY/MD	Ok,M
8	Q2037-02DUP	VL042542.D	14 May 2025 14:50	SY/MD	Ok,M
9	Q2037-01	VL042543.D	14 May 2025 15:22	SY/MD	Ok,M
10	Q2037-01DL	VL042544.D	14 May 2025 15:54	SY/MD	Not Ok

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL051225

Review By	Semsettin Yesilyurt	Review On	5/14/2025 9:07:47 AM
Supervise By	Maresh Dadoda	Supervise On	5/14/2025 12:32:58 PM
SubDirectory	VL051225	HP Acquire Method	TO15AIR.M HP Processing Method VL051225AIR.M

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	AP2604 AP2610,AP2611,AP2612
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	AP2604 AP2613

Sr#	Sampled	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL042524.D	12 May 2025 07:58		SY/MD	Ok
2	VSTDICCC010	VSTDICCC010	VL042525.D	12 May 2025 08:57		SY/MD	Ok,M
3	VSTDICC002	VSTDICC002	VL042526.D	12 May 2025 09:33	Not used	SY/MD	Not Ok
4	VSTDICC001	VSTDICC001	VL042527.D	12 May 2025 10:07	Method fail for comp.#9,61,79,80	SY/MD	Ok,M
5	VSTDICC0.5	VSTDICC0.5	VL042528.D	12 May 2025 10:41		SY/MD	Ok,M
6	VSTDICC0.1	VSTDICC0.1	VL042529.D	12 May 2025 11:15		SY/MD	Ok,M
7	VSTDICC0.03	VSTDICC0.03	VL042530.D	12 May 2025 11:49		SY/MD	Ok,M
8	VSTDICCC010	VSTDICCC010	VL042531.D	12 May 2025 12:22	Not used	SY/MD	Not Ok
9	VSTDICC002	VSTDICC002	VL042532.D	12 May 2025 12:58		SY/MD	Ok,M
10	VSTDICC015	VSTDICC015	VL042533.D	12 May 2025 14:28		SY/MD	Ok,M
11	VSTDICV010	ICVVL051225	VL042534.D	12 May 2025 16:10	ICV Failed for comp. #51,61,66,79,80,81	SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL051425

Review By	Semsettin Yesilyurt	Review On	5/15/2025 10:12:52 AM
Supervise By	Maresh Dadoda	Supervise On	5/15/2025 2:31:22 PM
SubDirectory	VL051425	HP Acquire Method	TO15AIR.M
		HP Processing Method	VL051225AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2614
Initial Calibration Stds	AP2610,AP2611,AP2612
CCC	AP2616
Internal Standard/PEM	AP2614
ICV/I.BLK	AP2613
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	Sampled	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL042535.D	14 May 2025 09:38		SY/MD	Ok
2	VSTDCCC010	VSTDCCC010	VL042536.D	14 May 2025 10:23		SY/MD	Ok,M
3	VL0514ABL01	VL0514ABL01	VL042537.D	14 May 2025 11:09		SY/MD	Ok
4	VL0514ABS01	VL0514ABS01	VL042538.D	14 May 2025 11:53		SY/MD	Ok,M
5	Q2011-02	IA1	VL042539.D	14 May 2025 12:40		SY/MD	Ok,M
6	Q2011-01	SV1	VL042540.D	14 May 2025 13:12		SY/MD	Ok,M
7	Q2037-02	IA1	VL042541.D	14 May 2025 14:15		SY/MD	Ok,M
8	Q2037-02DUP	IA1DUP	VL042542.D	14 May 2025 14:50		SY/MD	Ok,M
9	Q2037-01	SV1	VL042543.D	14 May 2025 15:22		SY/MD	Ok,M
10	Q2037-01DL	SV1DL	VL042544.D	14 May 2025 15:54	Not Required	SY/MD	Not Ok

M : Manual Integration

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051225\
 Data File : VL042525.D
 Acq On : 12 May 2025 08:57
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Quant Time: May 12 23:45:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Mon May 12 23:42:45 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.777	49	115823	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.946	114	341715	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.869	117	299786	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.364	95	261594	10.029	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.300%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.492	85	169160	8.994	ppbv	100
3) Chlorodifluoromethane	1.470	51	178822	9.329	ppbv	100
4) Chloromethane	1.528	50	67750	8.826	ppbv	100
5) Vinyl Chloride	1.573	62	64115	8.163	ppbv	100
6) Bromomethane	1.661	94	33766	9.053	ppbv	100
7) Chloroethane	1.700	64	25777	8.338	ppbv	100
8) Dichlorotetrafluoroethane	1.548	85	142870	8.828	ppbv	100
9) Propene	1.476	41	10300	2.474	ppbv #	1
10) Heptane	4.959	43	171443	10.802	ppbv	100
11) Trichlorofluoromethane	1.871	101	161561	8.930	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.130	101	127743	8.791	ppbv	100
13) Ethanol	1.716	45	7854	6.912	ppbv	100
14) Bromoethene	1.774	108	47318	8.932	ppbv	100
15) Acetone	1.829	43	140078	7.569	ppbv	100
16) 1,3-Butadiene	1.603	39	74449	8.946	ppbv	100
17) tert-Butyl alcohol	2.033	59	159013	9.298	ppbv	100
18) 1,1-Dichloroethene	2.027	96	57005	8.952	ppbv	100
19) Isopropyl Alcohol	1.881	45	90090	8.961	ppbv #	1
20) Methylene Chloride	2.052	84	49582	7.693	ppbv	100
21) Allyl Chloride	2.088	41	114157	9.316	ppbv	100
22) trans-1,2-Dichloroethene	2.331	96	65183	8.750	ppbv	100
23) Vinyl Acetate	2.454	43	186900	9.646	ppbv	100
24) 1,1-Dichloroethane	2.399	63	131534	9.126	ppbv	100
25) Ethyl Acetate	2.826	43	330659	10.175	ppbv	100
26) Hexane	2.816	57	140065	10.498	ppbv	100
27) Carbon Disulfide	2.143	76	163053	9.467	ppbv	99
28) Methyl tert-Butyl Ether	2.431	73	69971	9.440	ppbv	100
29) Chloroform	2.839	83	246790	8.919	ppbv	100
30) Cyclohexane	3.842	84	118162	10.787	ppbv	100
31) cis-1,2-Dichloroethene	2.709	61	147467	9.788	ppbv	100
32) 1,1,1-Trichloroethane	3.357	97	260477	9.331	ppbv	100
34) 2-Butanone	2.548	43	204394	9.075	ppbv	100
35) Carbon Tetrachloride	3.748	117	275147	8.956	ppbv	100
36) Benzene	3.642	78	288357	9.522	ppbv	100
37) 1,2-Dichloroethane	3.208	62	194477	9.003	ppbv	100
38) Trichloroethene	4.528	130	123174	9.520	ppbv	100
39) 1,2-Dichloropropane	4.299	63	105313	9.342	ppbv	100
40) 1,4-Dioxane	4.564	88	46049	10.246	ppbv #	96
41) Tetrahydrofuran	3.046	42	105158	10.824	ppbv	100
42) Bromodichloromethane	4.473	83	267225	9.286	ppbv	100
43) Methyl Methacrylate	4.862	69	110028	10.879	ppbv	100
44) 2,2,4-Trimethylpentane	4.622	57	486999	10.240	ppbv	100
45) t-1,3-Dichloropropene	6.393	75	137698	10.664	ppbv	100

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 Data File : VL042525.D
 Acq On : 12 May 2025 08:57
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

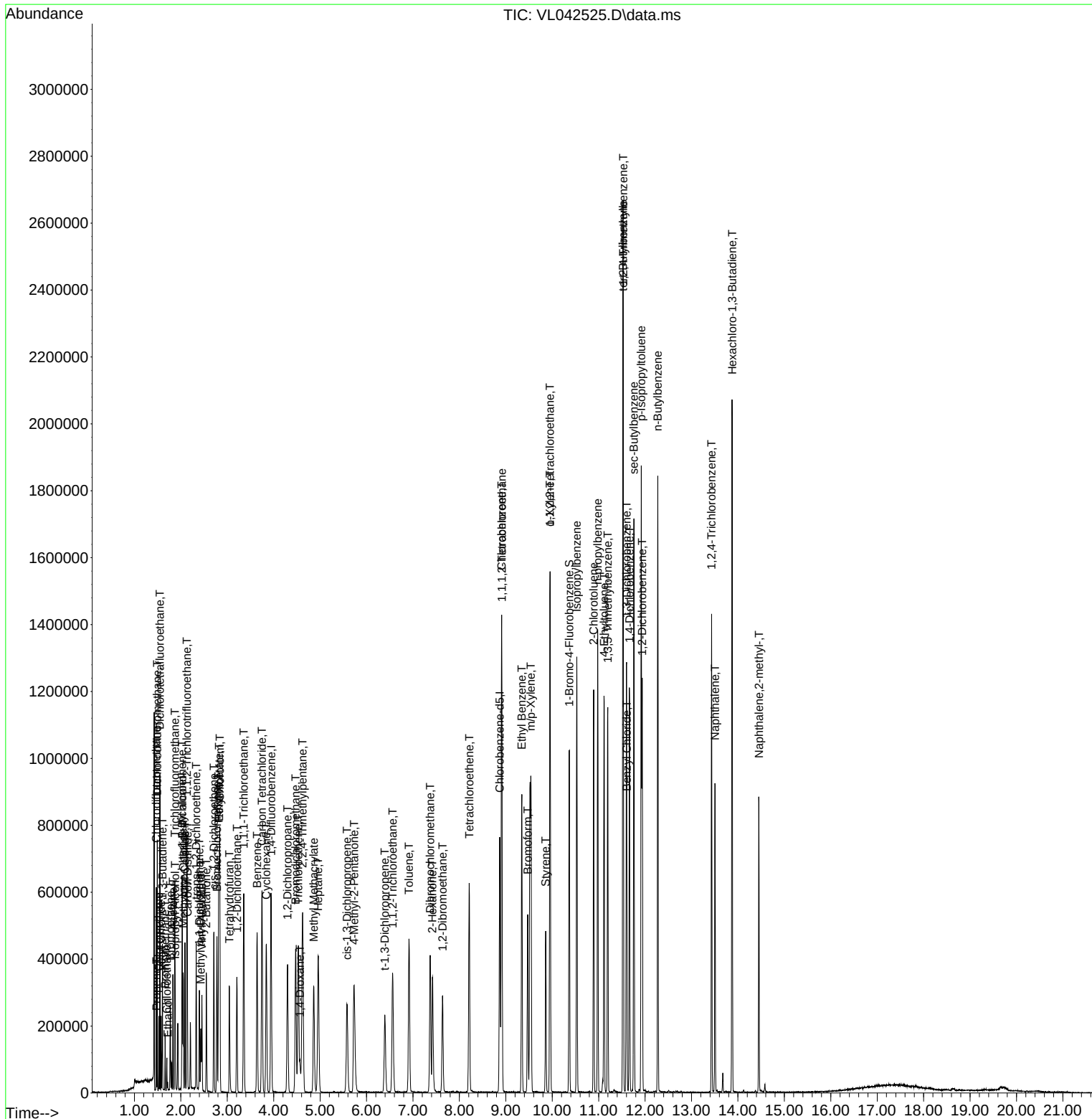
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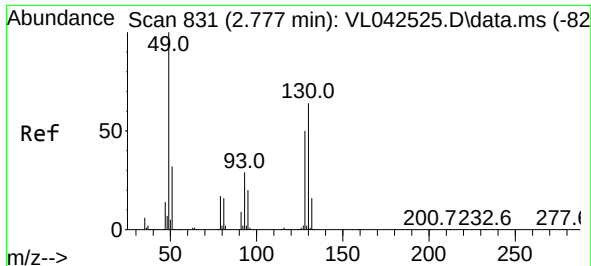
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 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Mon May 12 23:42:45 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.580	75	166227	10.673	ppbv	100
47) 1,1,2-Trichloroethane	6.561	97	119791	9.025	ppbv	100
48) Dibromochloromethane	7.373	129	211079	9.517	ppbv	100
49) Bromoform	9.474	173	178401	9.802	ppbv	100
50) 4-Methyl-2-Pentanone	5.736	43	136273	5.159	ppbv #	34
51) 2-Hexanone	7.419	43	226227	11.522	ppbv	100
52) Tetrachloroethene	8.212	164	107438	9.209	ppbv	100
53) Toluene	6.914	91	325568	10.955	ppbv	100
54) 1,2-Dibromoethane	7.636	107	182336	9.400	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.914	131	165589	8.909	ppbv	99
57) Chlorobenzene	8.911	112	273225	9.077	ppbv	100
58) Ethyl Benzene	9.345	91	468520	11.466	ppbv	100
59) m/p-Xylene	9.539	91	406543	11.184	ppbv #	100
60) o-Xylene	9.953	91	399046	11.266	ppbv	100
61) Styrene	9.859	104	152478	11.686	ppbv	100
62) Isopropylbenzene	10.529	105	579443	10.856	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.953	83	246197	8.666	ppbv	100
64) n-propylbenzene	10.979	120	151897	11.231	ppbv	100
65) tert-Butylbenzene	11.523	119	533457	10.884	ppbv	100
66) Benzyl Chloride	11.607	91	66999	10.331	ppbv	100
67) sec-Butylbenzene	11.759	105	743905	10.586	ppbv	100
69) p-Isopropyltoluene	11.918	119	644903	11.163	ppbv	100
70) n-Butylbenzene	12.274	91	640472	11.219	ppbv	100
71) 2-Chlorotoluene	10.892	91	446467	11.047	ppbv	100
72) 4-Ethyltoluene	11.118	105	496120	11.285	ppbv	100
73) 1,3,5-Trimethylbenzene	11.196	105	424133	11.076	ppbv	100
74) 1,2,4-Trimethylbenzene	11.529	105	485862	10.313	ppbv	100
75) 1,3-Dichlorobenzene	11.601	146	285664	9.681	ppbv	100
76) 1,4-Dichlorobenzene	11.662	146	278935	9.936	ppbv	100
77) 1,2-Dichlorobenzene	11.940	146	273570	8.976	ppbv	100
78) Hexachloro-1,3-Butadiene	13.876	225	219741	8.408	ppbv	100
79) Naphthalene	13.507	128	411831	12.661	ppbv	100
80) Naphthalene,2-methyl-	14.452	142	232576	12.289	ppbv	100
81) 1,2,4-Trichlorobenzene	13.432	180	217565	10.955	ppbv	100

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

Quant Time: May 12 23:45:09 2025
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Response via : Initial Calibration

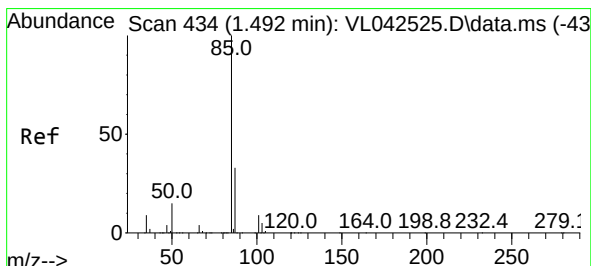
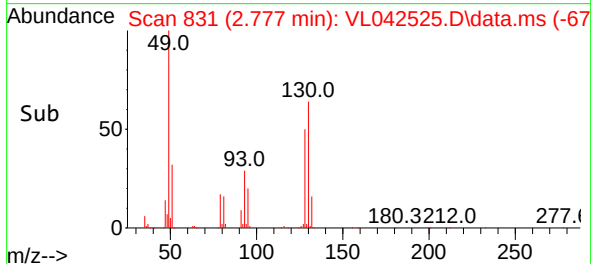
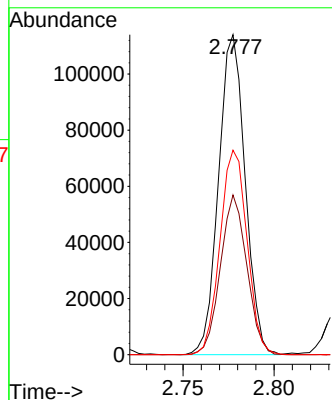
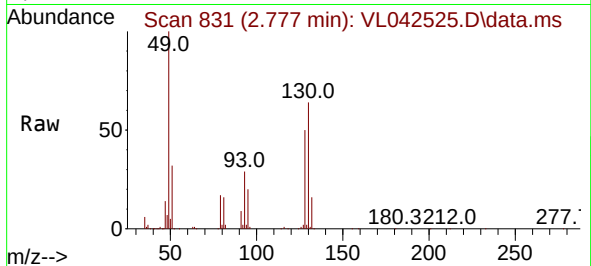




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.777 min Scan# 831
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

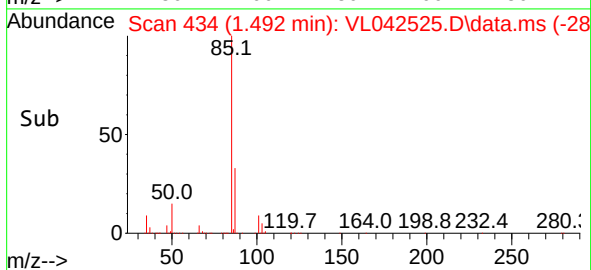
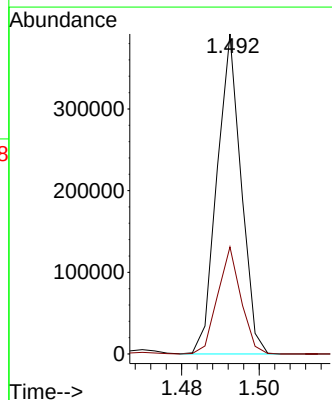
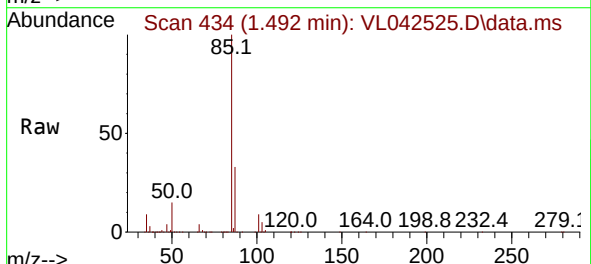
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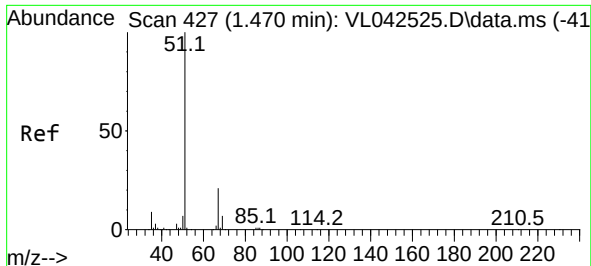
Tgt Ion: 49 Resp: 115823
Ion Ratio Lower Upper
49 100
128 49.7 24.9 74.6
130 65.0 32.5 97.5



#2
Dichlorodifluoromethane
Concen: 8.994 ppbv
RT: 1.492 min Scan# 434
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

Tgt Ion: 85 Resp: 169160
Ion Ratio Lower Upper
85 100
87 33.5 26.8 40.2

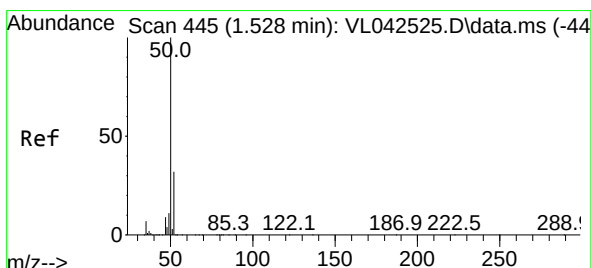
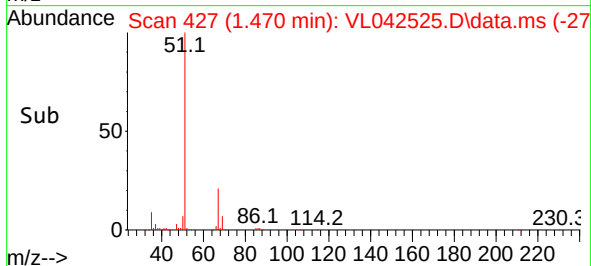
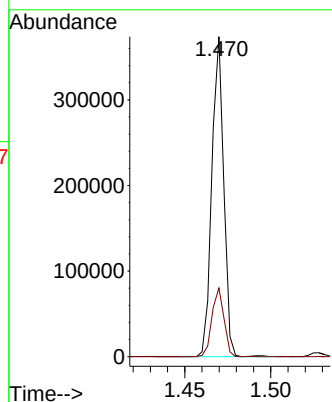
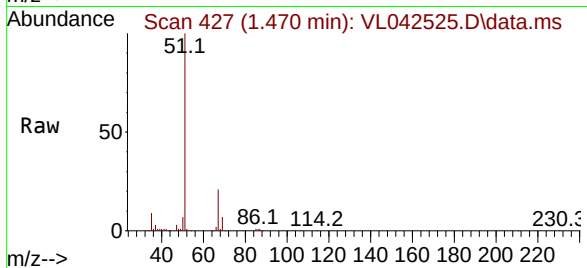




#3
Chlorodifluoromethane
Concen: 9.329 ppbv
RT: 1.470 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

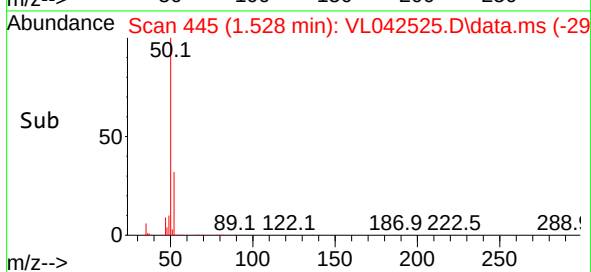
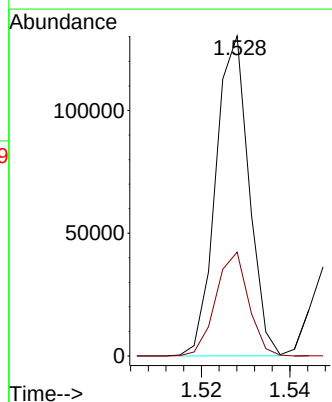
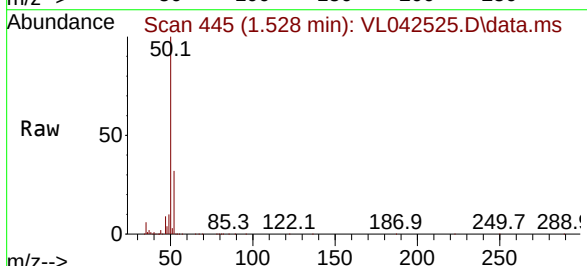
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

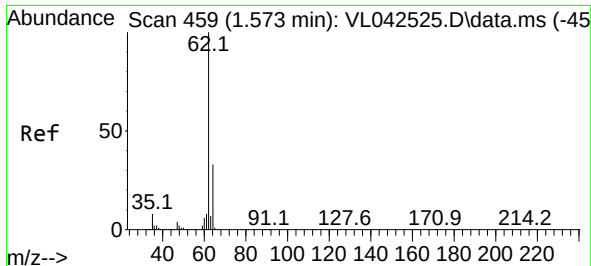
Tgt Ion: 51 Resp: 178822
Ion Ratio Lower Upper
51 100
67 21.7 17.4 26.0



#4
Chloromethane
Concen: 8.826 ppbv
RT: 1.528 min Scan# 445
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

Tgt Ion: 50 Resp: 67750
Ion Ratio Lower Upper
50 100
52 32.4 25.9 38.9

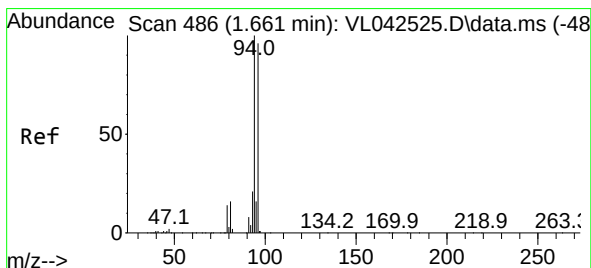
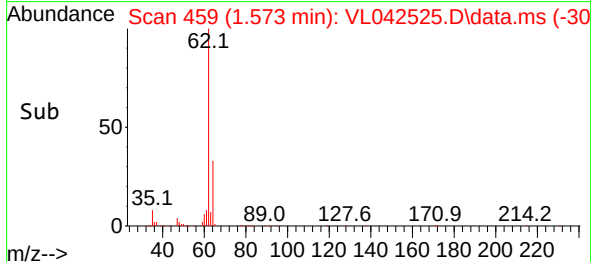
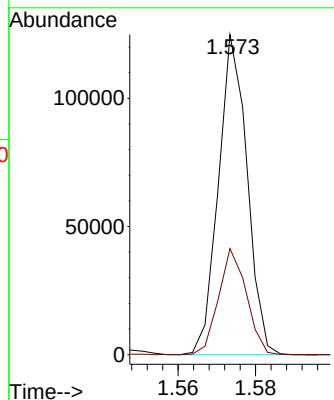
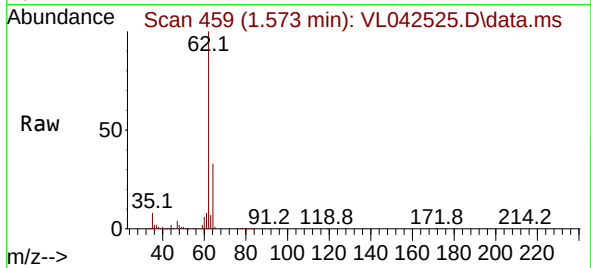




#5
 Vinyl Chloride
 Concen: 8.163 ppbv
 RT: 1.573 min Scan# 459
 Delta R.T. 0.000 min
 Lab File: VL042525.D
 Acq: 12 May 2025 08:57

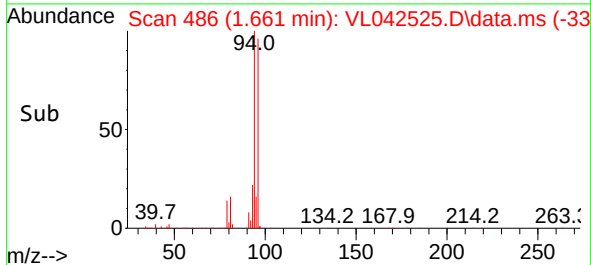
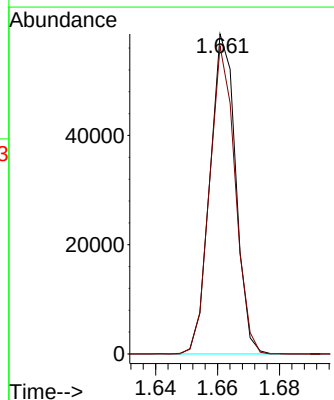
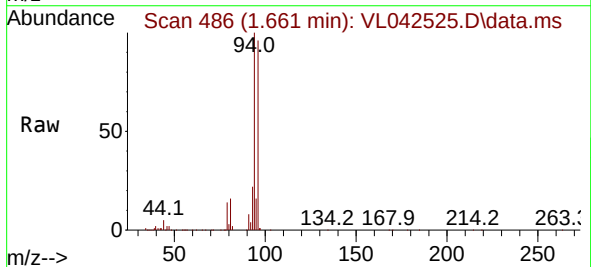
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 ClientSampleId :
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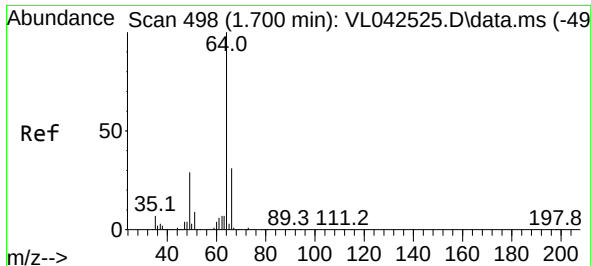
Tgt Ion: 62 Resp: 64115
 Ion Ratio Lower Upper
 62 100
 64 33.1 26.5 39.7



#6
 Bromomethane
 Concen: 9.053 ppbv
 RT: 1.661 min Scan# 486
 Delta R.T. 0.000 min
 Lab File: VL042525.D
 Acq: 12 May 2025 08:57

Tgt Ion: 94 Resp: 33766
 Ion Ratio Lower Upper
 94 100
 96 96.1 76.9 115.3

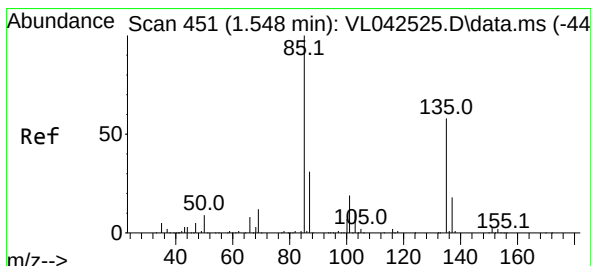
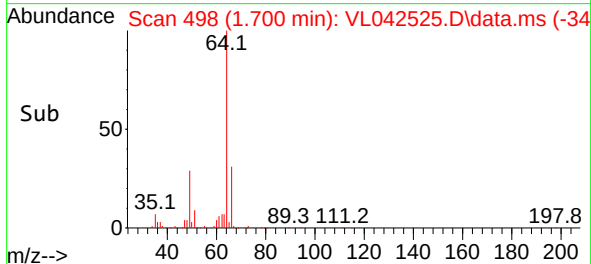
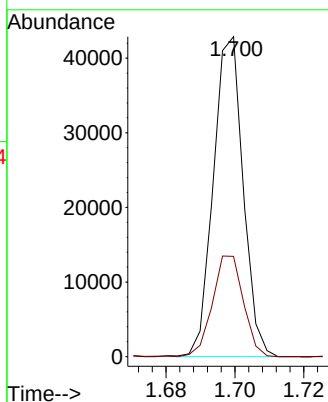
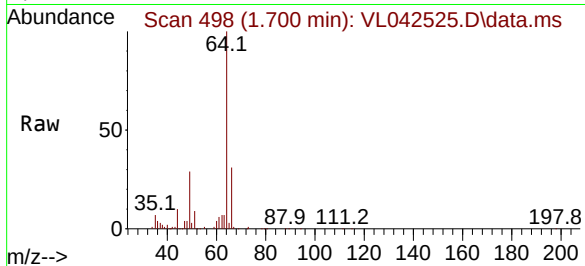




#7
Chloroethane
Concen: 8.338 ppbv
RT: 1.700 min Scan# 498
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

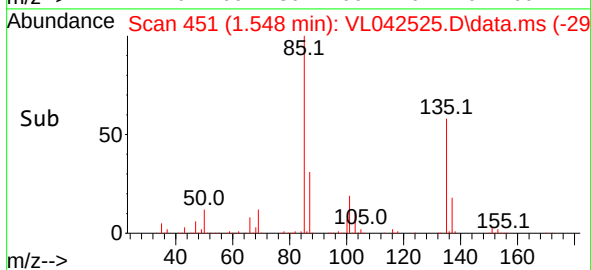
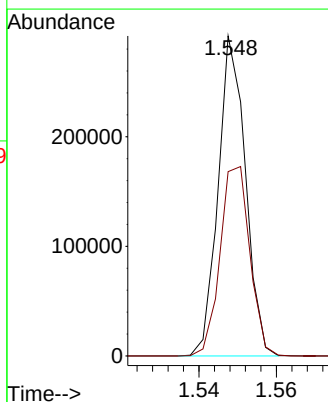
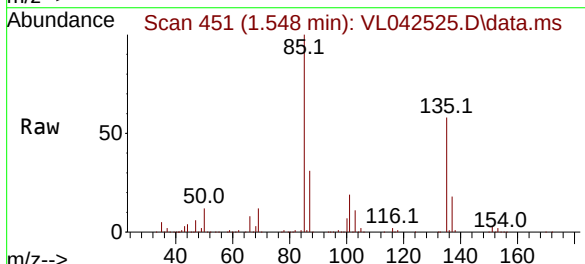
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ClientSampleId :
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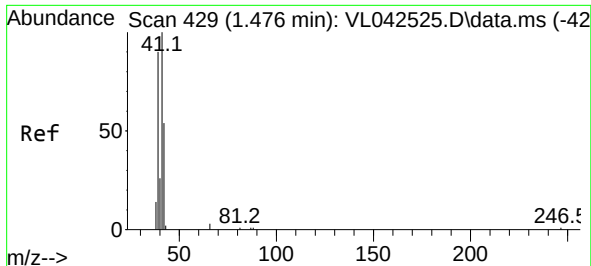
Tgt Ion: 64 Resp: 25777
Ion Ratio Lower Upper
64 100
66 31.4 25.1 37.7



#8
Dichlorotetrafluoroethane
Concen: 8.828 ppbv
RT: 1.548 min Scan# 451
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

Tgt Ion: 85 Resp: 142870
Ion Ratio Lower Upper
85 100
135 64.8 51.8 77.8

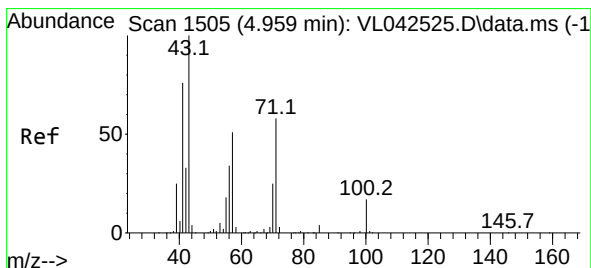
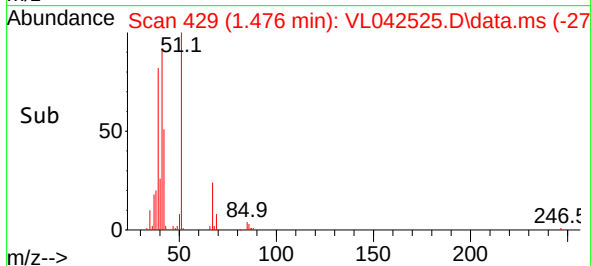
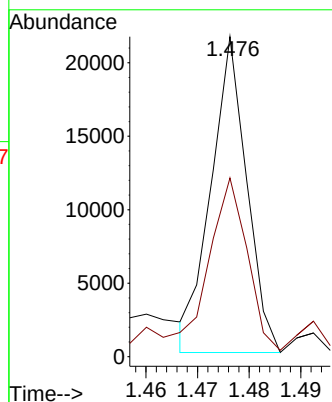
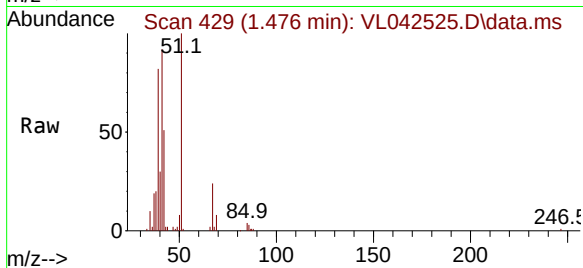




#9
 Propene
 Concen: 2.474 ppbv
 RT: 1.476 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL042525.D
 Acq: 12 May 2025 08:57

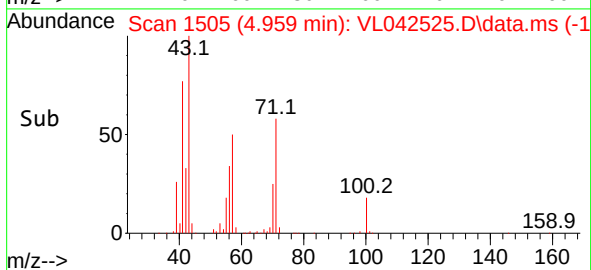
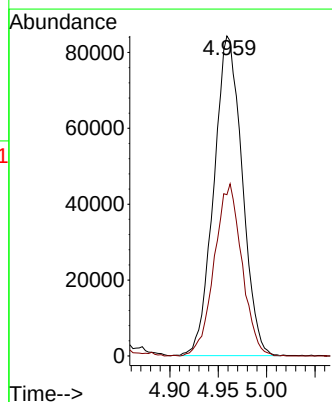
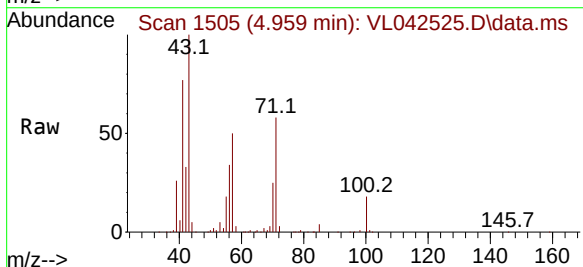
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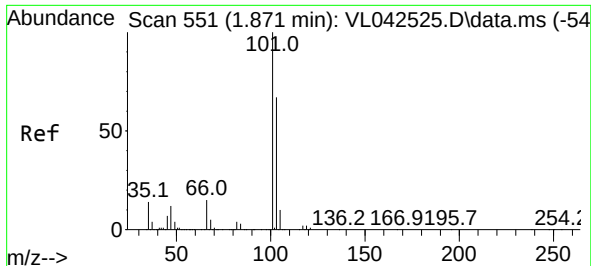
Tgt Ion: 41 Resp: 10300
 Ion Ratio Lower Upper
 41 100
 42 81.7 4.1 6.1#



#10
 Heptane
 Concen: 10.802 ppbv
 RT: 4.959 min Scan# 1505
 Delta R.T. 0.000 min
 Lab File: VL042525.D
 Acq: 12 May 2025 08:57

Tgt Ion: 43 Resp: 171443
 Ion Ratio Lower Upper
 43 100
 57 52.6 42.1 63.1

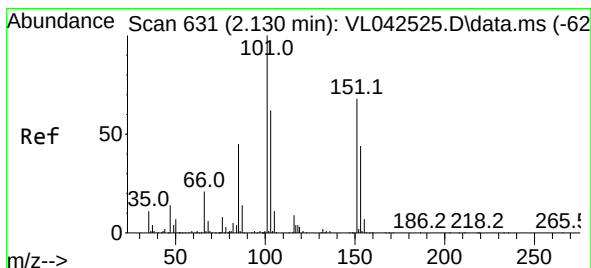
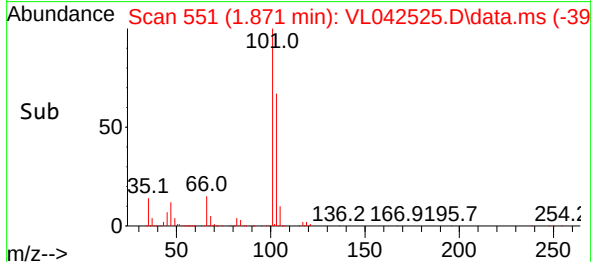
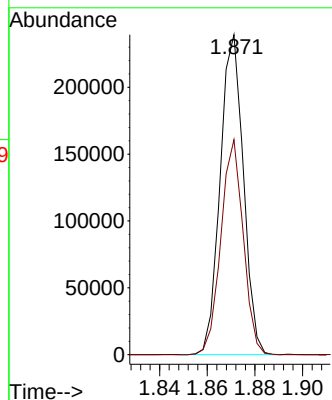
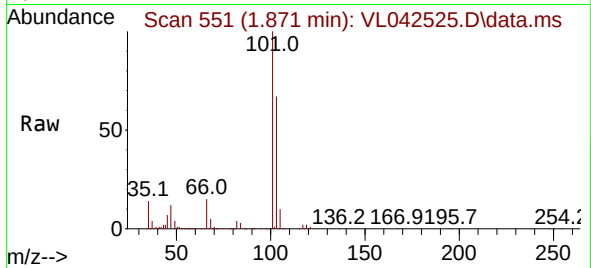




#11
 Trichlorofluoromethane
 Concen: 8.930 ppbv
 RT: 1.871 min Scan# 551
 Delta R.T. 0.000 min
 Lab File: VL042525.D
 Acq: 12 May 2025 08:57

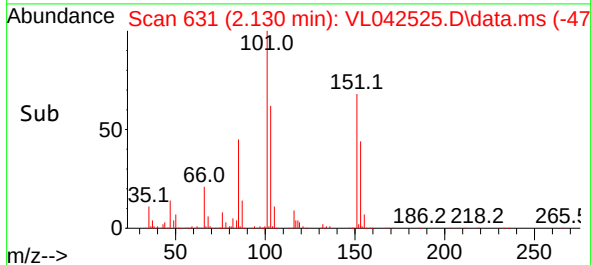
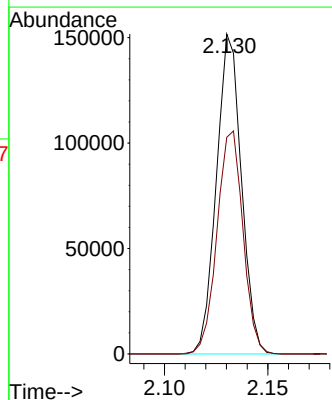
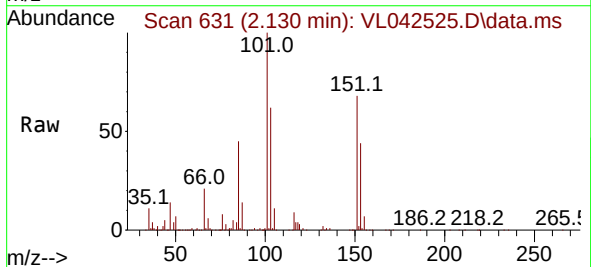
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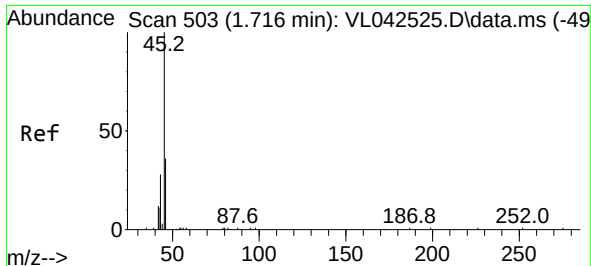
Tgt Ion:101 Resp: 161561
 Ion Ratio Lower Upper
 101 100
 103 67.2 53.8 80.6



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 8.791 ppbv
 RT: 2.130 min Scan# 631
 Delta R.T. 0.000 min
 Lab File: VL042525.D
 Acq: 12 May 2025 08:57

Tgt Ion:101 Resp: 127743
 Ion Ratio Lower Upper
 101 100
 151 72.3 57.8 86.8

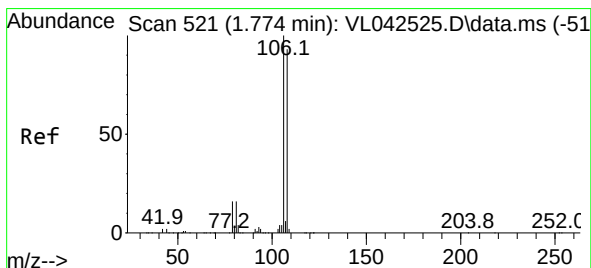
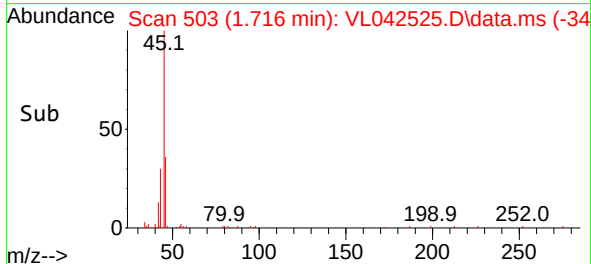
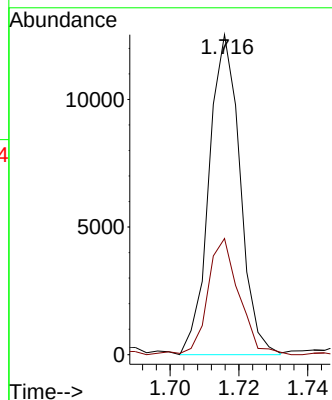
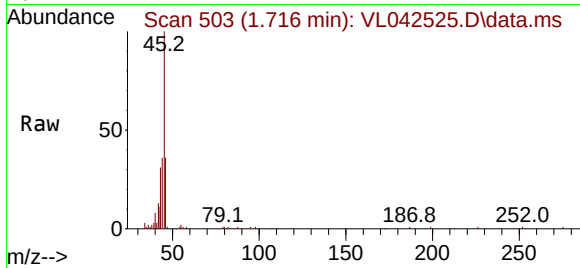




#13
Ethanol
Concen: 6.912 ppbv
RT: 1.716 min Scan# 503
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

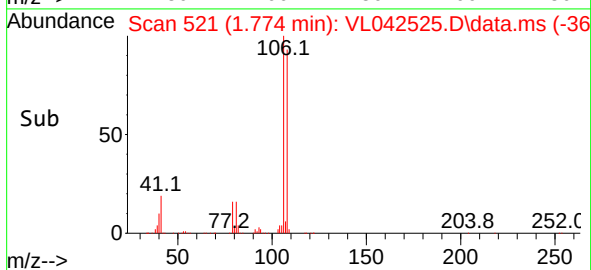
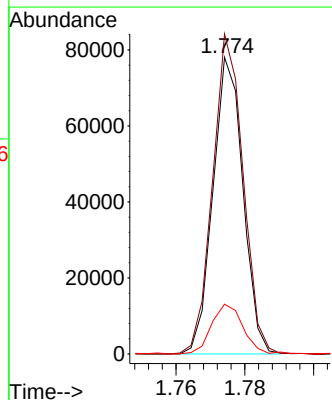
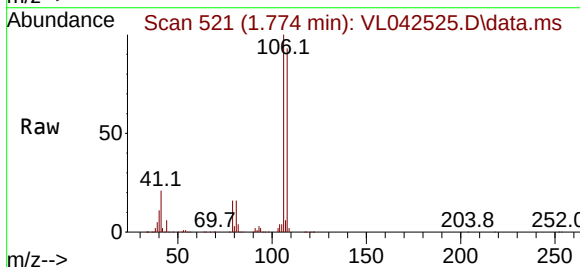
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

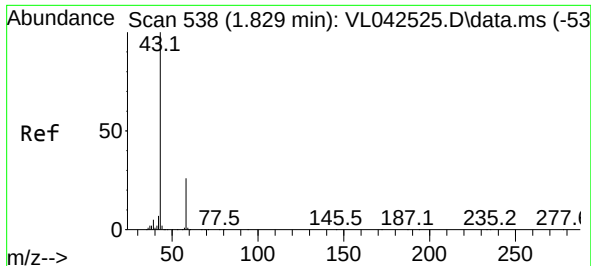
Tgt Ion: 45 Resp: 7854
Ion Ratio Lower Upper
45 100
46 37.1 14.8 59.4



#14
Bromoethene
Concen: 8.932 ppbv
RT: 1.774 min Scan# 521
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

Tgt Ion: 108 Resp: 47318
Ion Ratio Lower Upper
108 100
106 109.3 87.4 131.2
79 17.5 15.1 22.7

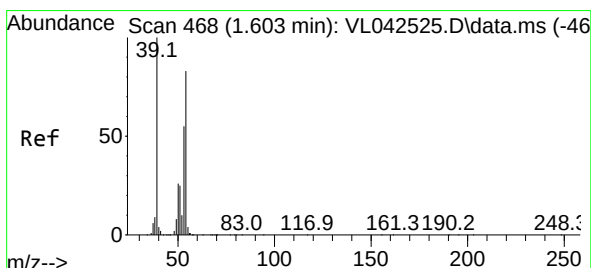
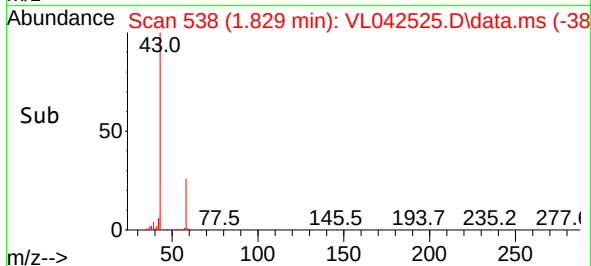
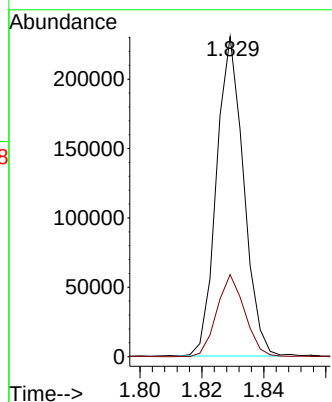
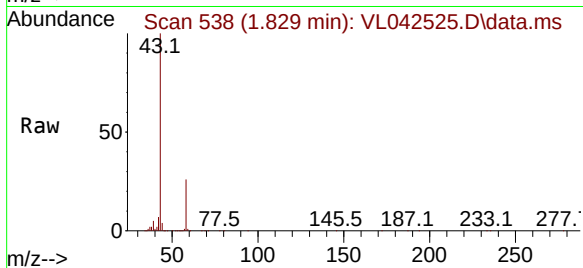




#15
Acetone
Concen: 7.569 ppbv
RT: 1.829 min Scan# 51
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

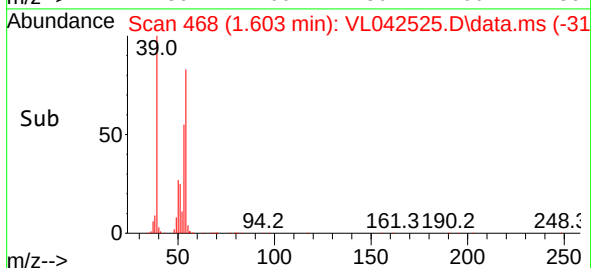
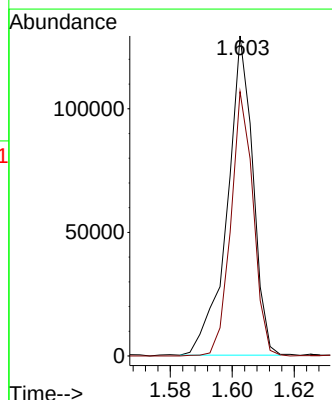
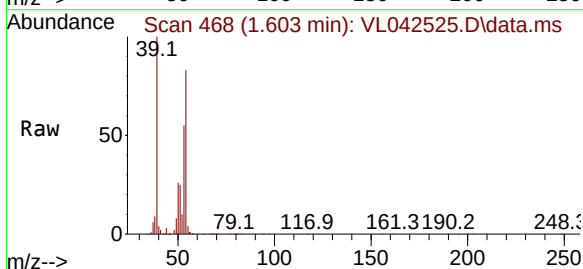
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

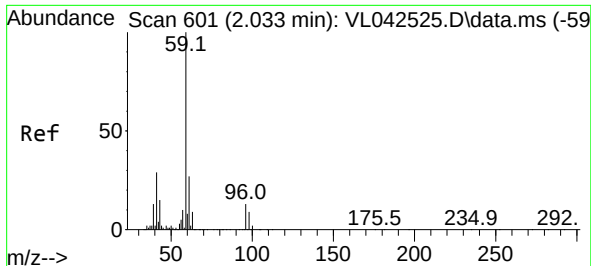
Tgt Ion: 43 Resp: 140078
Ion Ratio Lower Upper
43 100
58 26.6 21.3 31.9



#16
1,3-Butadiene
Concen: 8.946 ppbv
RT: 1.603 min Scan# 468
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

Tgt Ion: 39 Resp: 74449
Ion Ratio Lower Upper
39 100
54 72.1 57.8 86.6





#17

tert-Butyl alcohol

Concen: 9.298 ppbv

RT: 2.033 min Scan# 601

Delta R.T. 0.000 min

Lab File: VL042525.D

Acq: 12 May 2025 08:57

Instrument :

MSVOA_1

ClientSampleId :

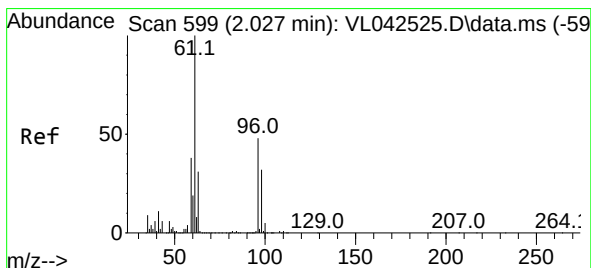
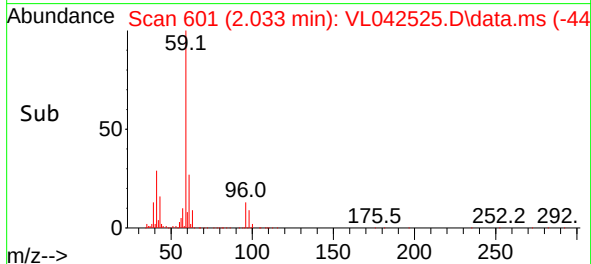
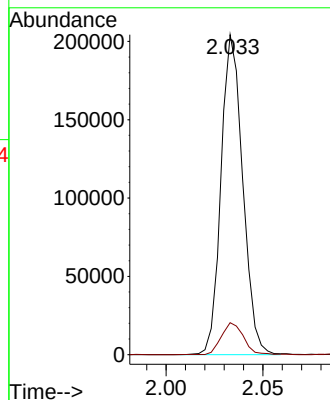
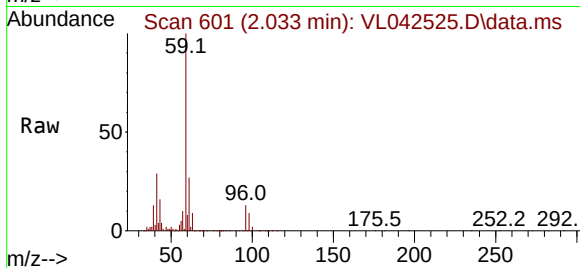
VSTDICCC010

Tgt Ion: 59 Resp: 159013

Ion Ratio Lower Upper

59 100

57 10.3 8.2 12.4



#18

1,1-Dichloroethene

Concen: 8.952 ppbv

RT: 2.027 min Scan# 599

Delta R.T. 0.000 min

Lab File: VL042525.D

Acq: 12 May 2025 08:57

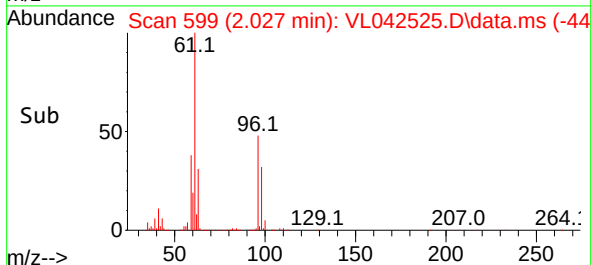
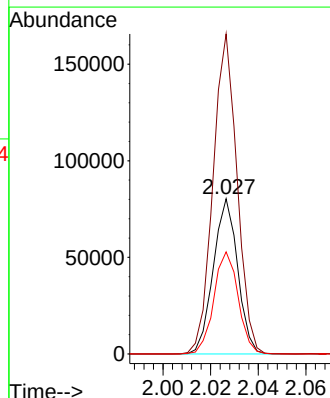
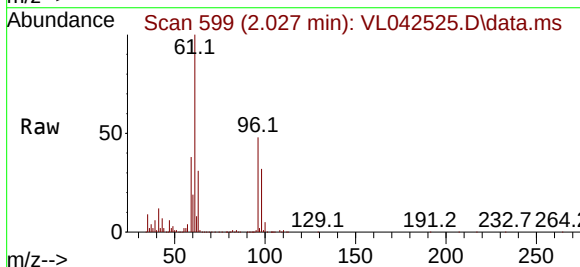
Tgt Ion: 96 Resp: 57005

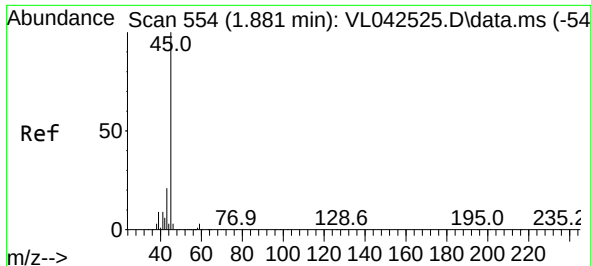
Ion Ratio Lower Upper

96 100

61 206.2 165.0 247.4

98 65.8 52.6 79.0

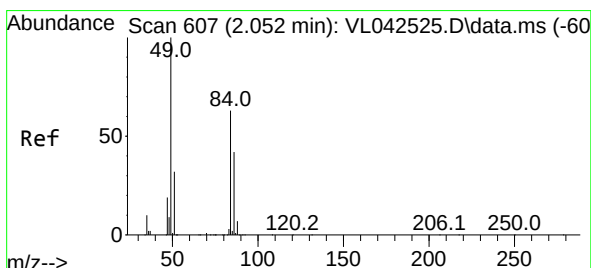
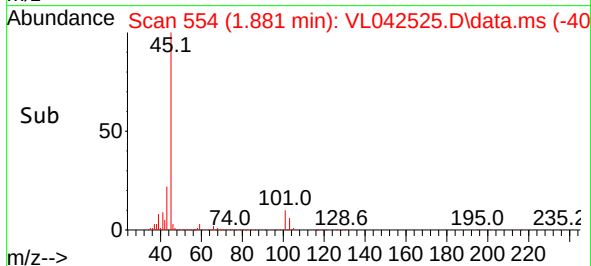
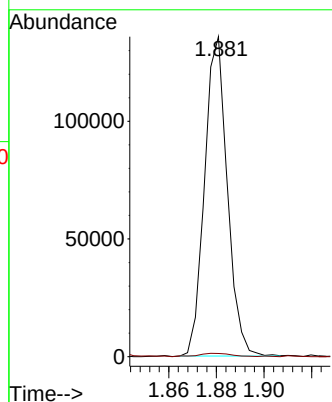
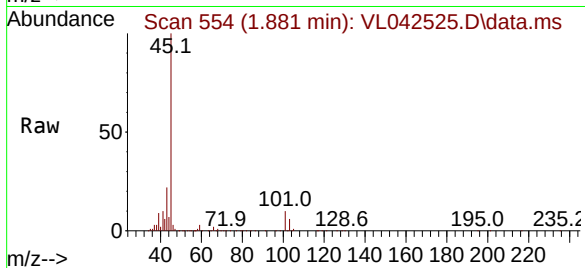




#19
Isopropyl Alcohol
Concen: 8.961 ppbv
RT: 1.881 min Scan# 554
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

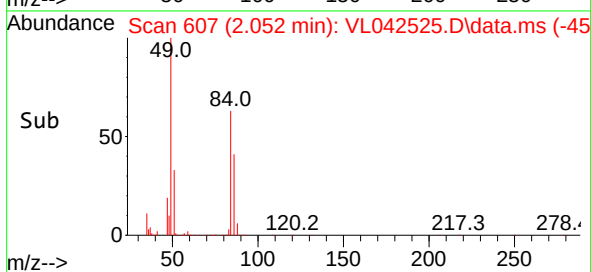
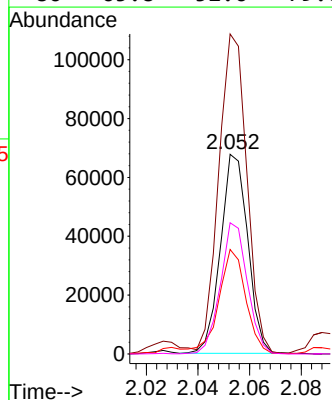
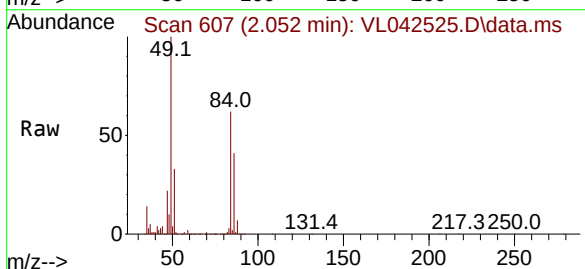
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

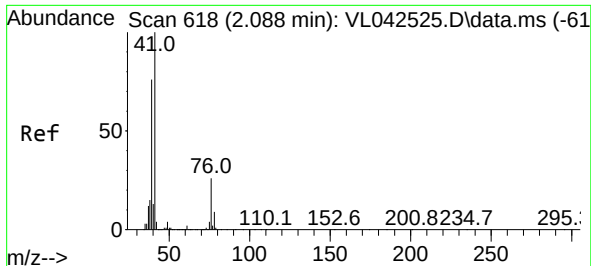
Tgt Ion: 45 Resp: 90090
Ion Ratio Lower Upper
45 100
58 41.4 1.5 2.3#



#20
Methylene Chloride
Concen: 7.693 ppbv
RT: 2.052 min Scan# 607
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

Tgt Ion: 84 Resp: 49582
Ion Ratio Lower Upper
84 100
49 160.3 128.2 192.4
51 52.1 41.7 62.5
86 65.8 52.6 79.0





#21

Allyl Chloride

Concen: 9.316 ppbv

RT: 2.088 min Scan# 618

Delta R.T. 0.000 min

Lab File: VL042525.D

Acq: 12 May 2025 08:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

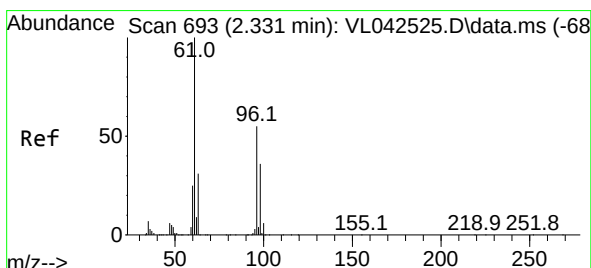
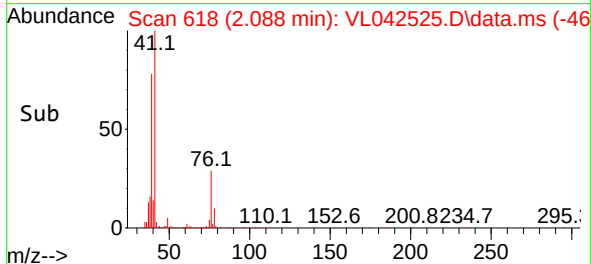
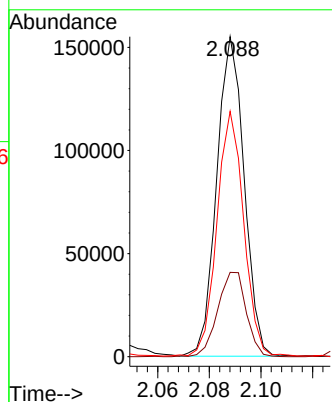
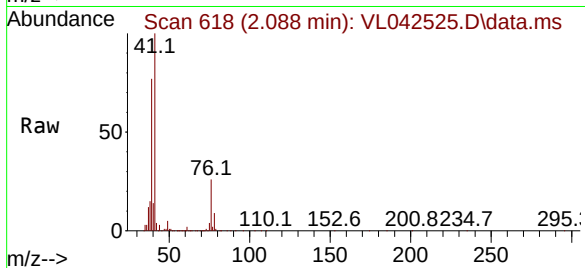
Tgt Ion: 41 Resp: 114157

Ion Ratio Lower Upper

41 100

76 27.5 22.0 33.0

39 74.4 59.5 89.3



#22

trans-1,2-Dichloroethene

Concen: 8.750 ppbv

RT: 2.331 min Scan# 693

Delta R.T. 0.000 min

Lab File: VL042525.D

Acq: 12 May 2025 08:57

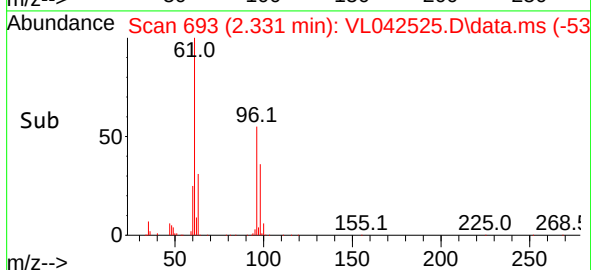
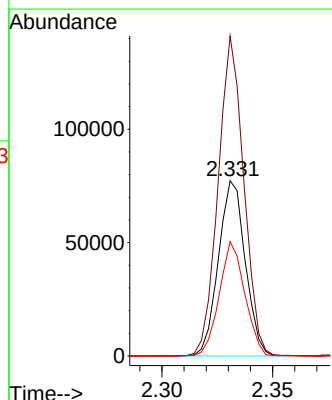
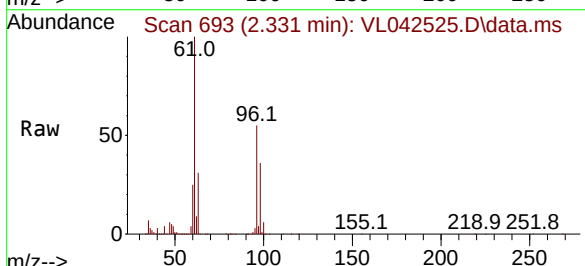
Tgt Ion: 96 Resp: 65183

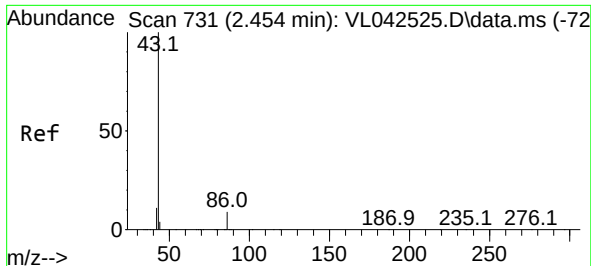
Ion Ratio Lower Upper

96 100

61 182.4 145.9 218.9

98 65.3 52.2 78.4



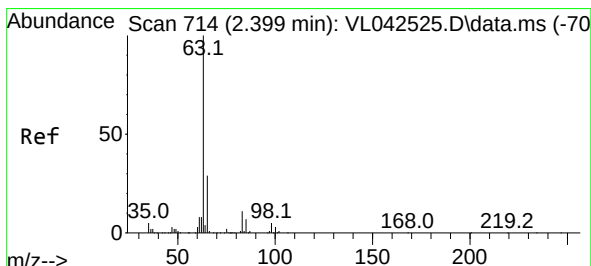
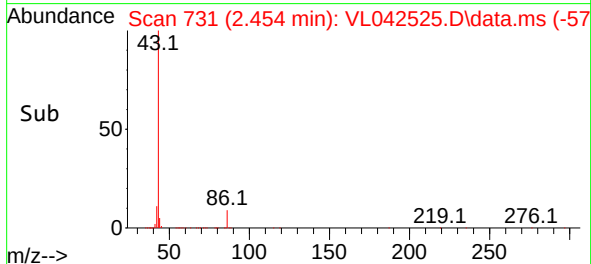
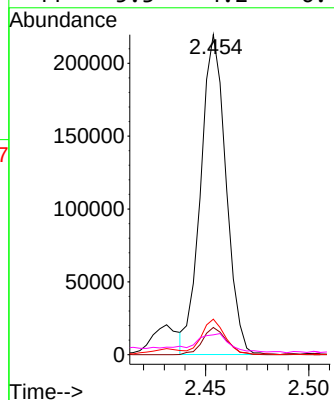
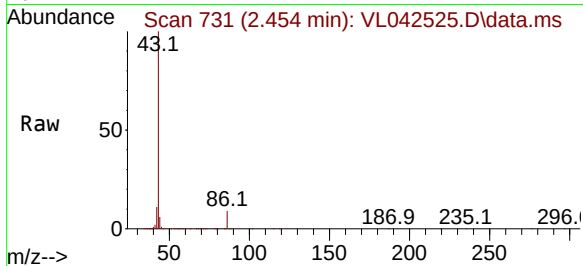


#23
 Vinyl Acetate
 Concen: 9.646 ppbv
 RT: 2.454 min Scan# 714
 Delta R.T. 0.000 min
 Lab File: VL042525.D
 Acq: 12 May 2025 08:57

Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

Tgt Ion: 43 Resp: 186900

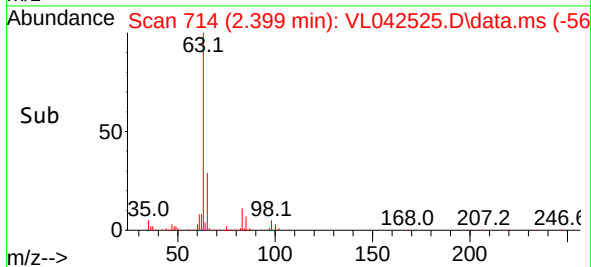
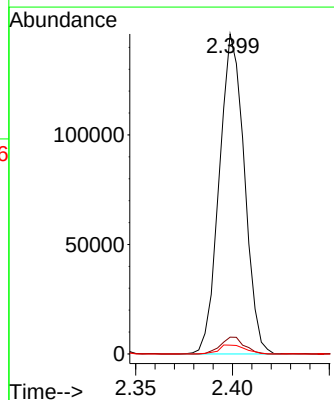
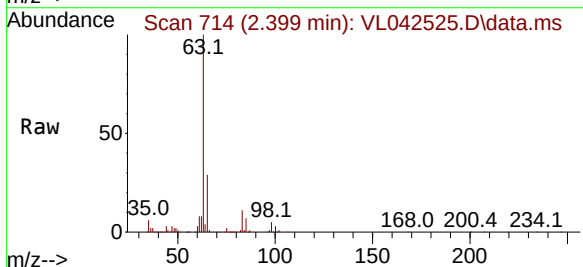
Ion	Ratio	Lower	Upper
43	100		
86	8.5	6.8	10.2
42	11.0	8.8	13.2
44	5.3	4.2	6.4

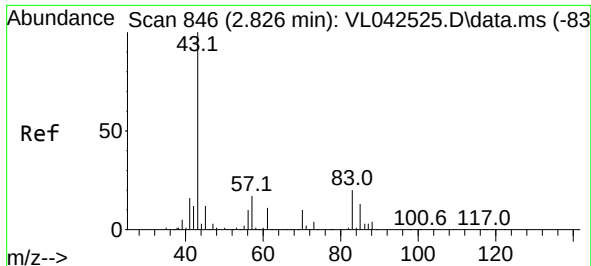


#24
 1,1-Dichloroethane
 Concen: 9.126 ppbv
 RT: 2.399 min Scan# 714
 Delta R.T. 0.000 min
 Lab File: VL042525.D
 Acq: 12 May 2025 08:57

Tgt Ion: 63 Resp: 131534

Ion	Ratio	Lower	Upper
63	100		
98	5.3	2.6	8.0
100	2.8	1.4	4.2

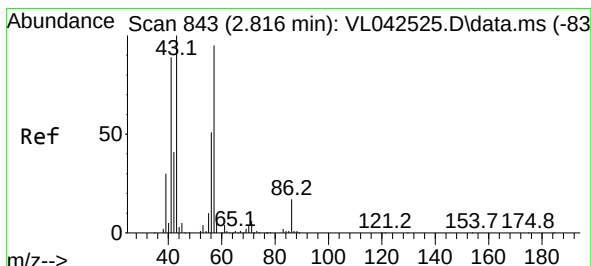
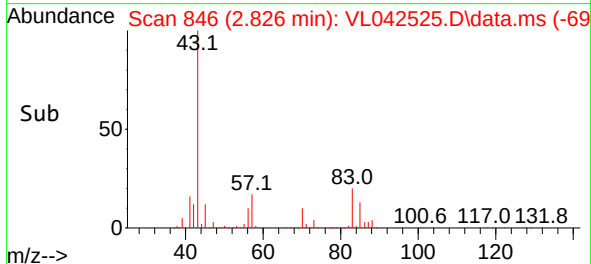
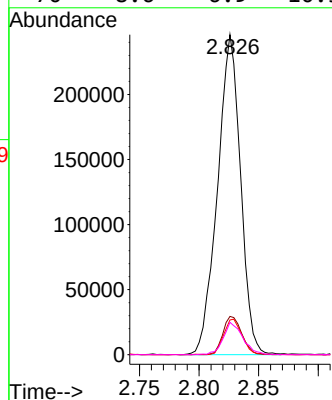
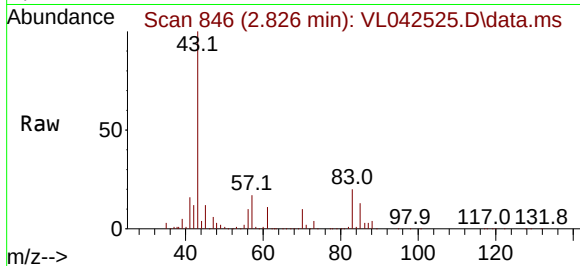




#25
Ethyl Acetate
Concen: 10.175 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

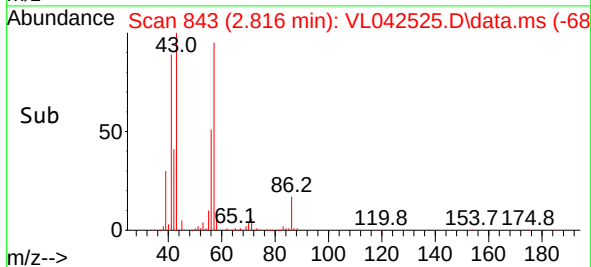
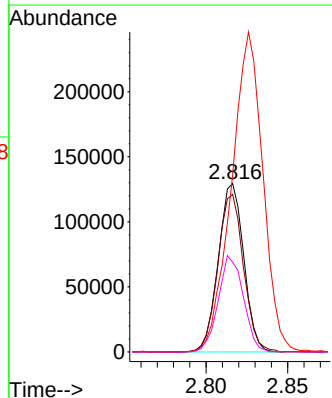
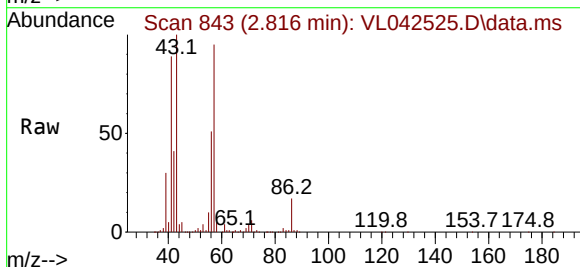
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

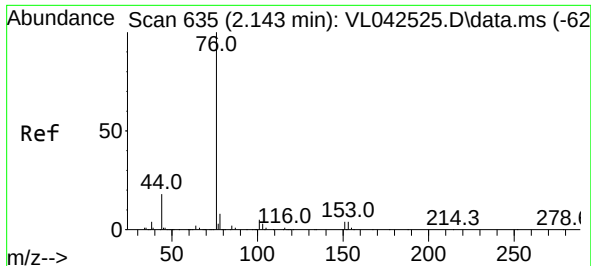
Tgt Ion:	43	Resp:	330659
Ion	Ratio	Lower	Upper
43	100		
45	9.8	7.9	11.9
61	8.9	7.1	10.7
70	8.6	6.9	10.3



#26
Hexane
Concen: 10.498 ppbv
RT: 2.816 min Scan# 843
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

Tgt Ion:	57	Resp:	140065
Ion	Ratio	Lower	Upper
57	100		
41	95.1	76.1	114.1
43	236.5	188.9	283.3
56	56.5	45.2	67.8

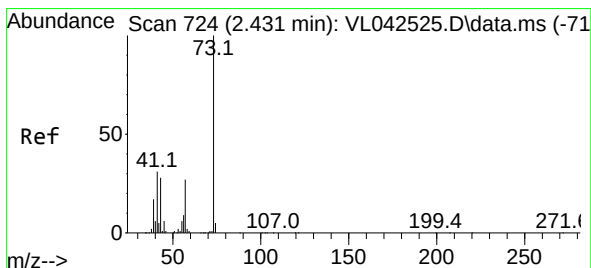
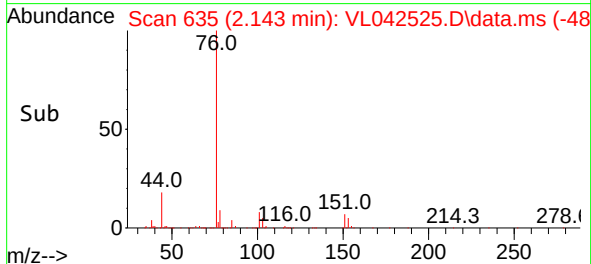
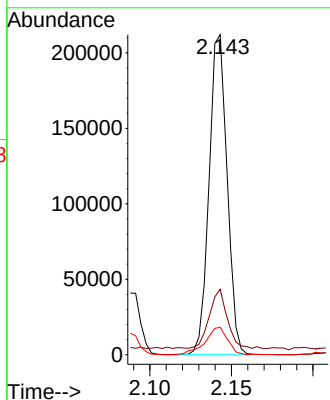
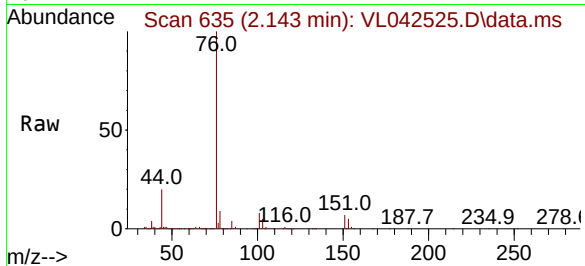




#27
Carbon Disulfide
Concen: 9.467 ppbv
RT: 2.143 min Scan# 611
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

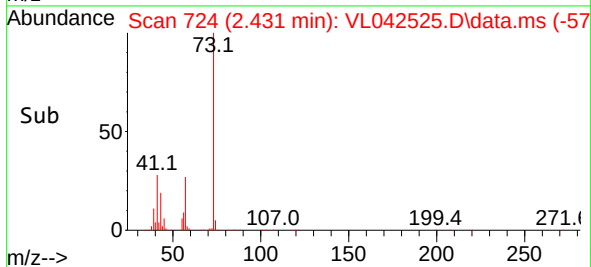
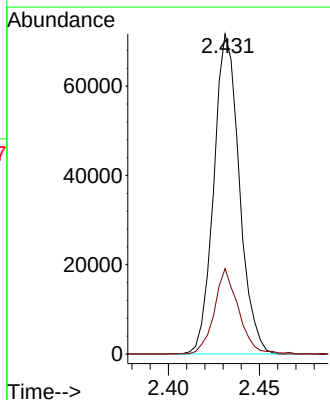
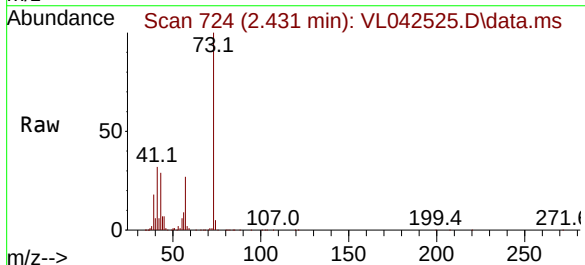
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

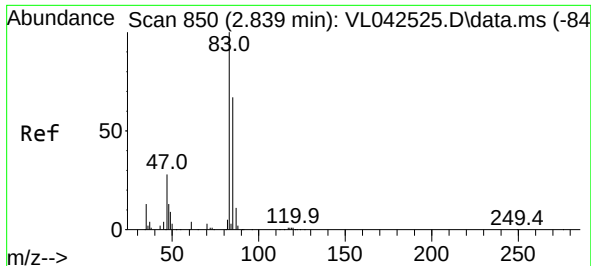
Tgt Ion: 76 Resp: 163053
Ion Ratio Lower Upper
76 100
44 21.0 17.1 25.7
78 10.7 8.6 12.8



#28
Methyl tert-Butyl Ether
Concen: 9.440 ppbv
RT: 2.431 min Scan# 724
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

Tgt Ion: 73 Resp: 69971
Ion Ratio Lower Upper
73 100
57 25.4 20.3 30.5





#29

Chloroform

Concen: 8.919 ppbv

RT: 2.839 min Scan# 850

Delta R.T. 0.000 min

Lab File: VL042525.D

Acq: 12 May 2025 08:57

Instrument :

MSVOA_1

ClientSampleId :

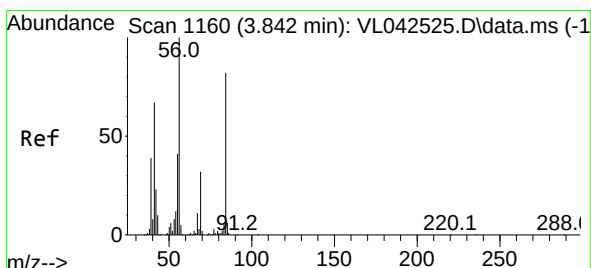
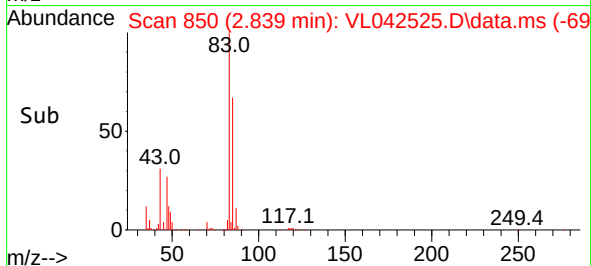
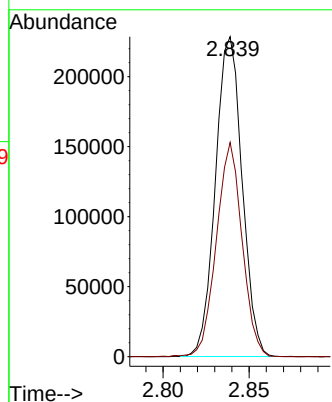
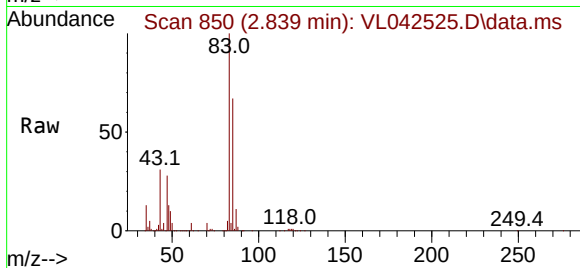
VSTDICCC010

Tgt Ion: 83 Resp: 246790

Ion Ratio Lower Upper

83 100

85 66.9 53.5 80.3



#30

Cyclohexane

Concen: 10.787 ppbv

RT: 3.842 min Scan# 1160

Delta R.T. 0.000 min

Lab File: VL042525.D

Acq: 12 May 2025 08:57

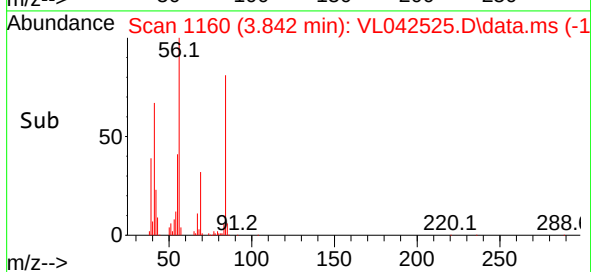
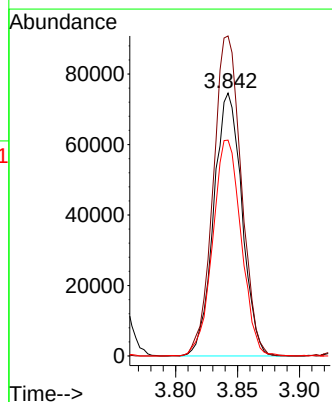
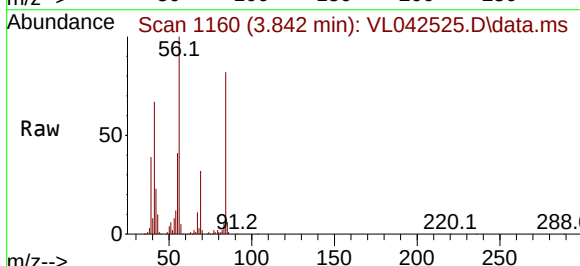
Tgt Ion: 84 Resp: 118162

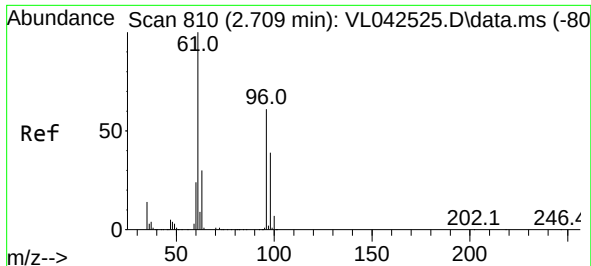
Ion Ratio Lower Upper

84 100

56 121.4 97.1 145.7

41 83.1 66.6 99.8

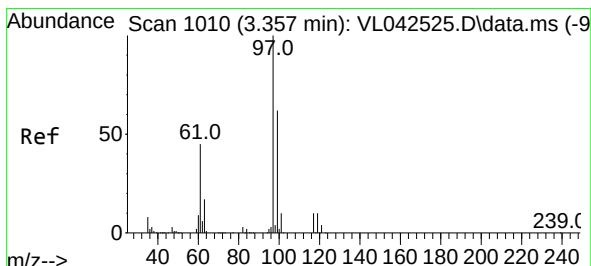
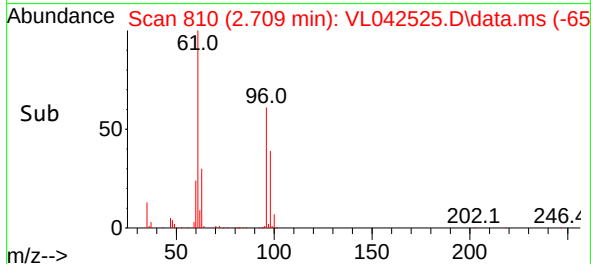
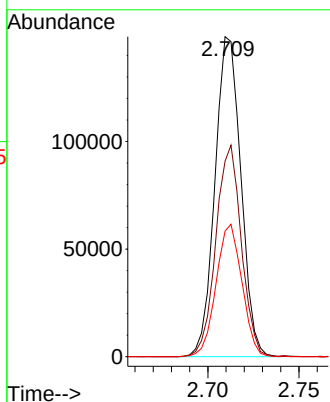
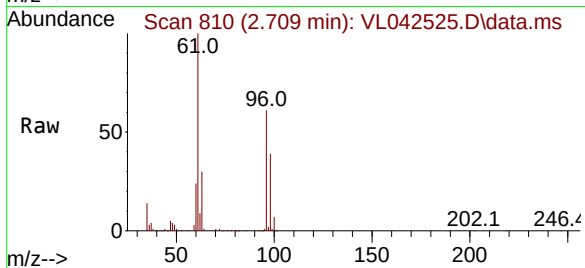




#31
 cis-1,2-Dichloroethene
 Concen: 9.788 ppbv
 RT: 2.709 min Scan# 810
 Delta R.T. 0.000 min
 Lab File: VL042525.D
 Acq: 12 May 2025 08:57

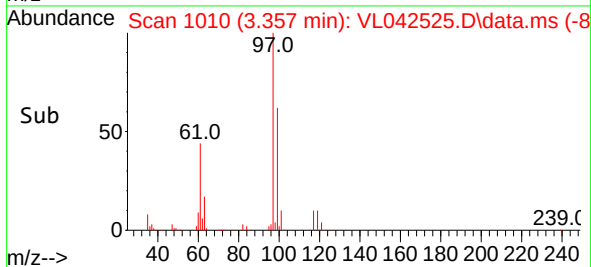
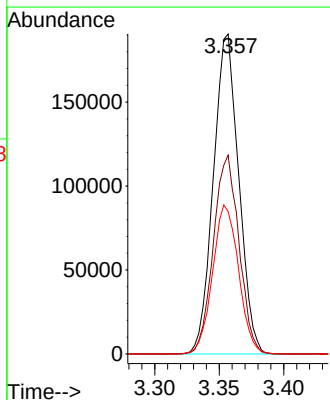
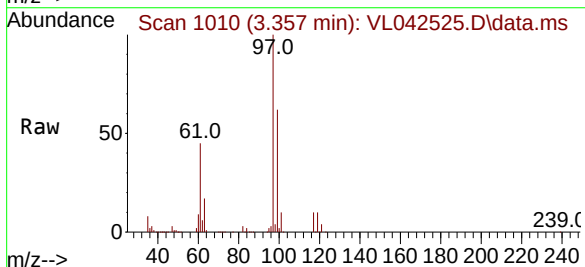
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

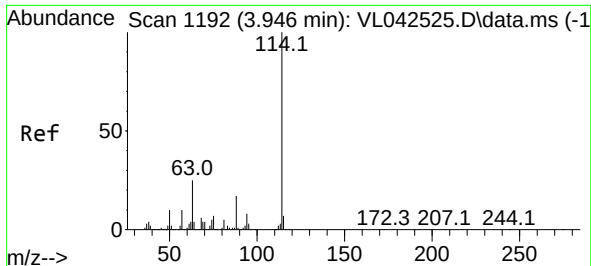
Tgt Ion: 61 Resp: 147467
 Ion Ratio Lower Upper
 61 100
 96 61.1 48.9 73.3
 98 39.3 31.4 47.2



#32
 1,1,1-Trichloroethane
 Concen: 9.331 ppbv
 RT: 3.357 min Scan# 1010
 Delta R.T. 0.000 min
 Lab File: VL042525.D
 Acq: 12 May 2025 08:57

Tgt Ion: 97 Resp: 260477
 Ion Ratio Lower Upper
 97 100
 99 62.6 50.1 75.1
 61 47.7 38.2 57.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.946 min Scan# 1192

Delta R.T. 0.000 min

Lab File: VL042525.D

Acq: 12 May 2025 08:57

Instrument :

MSVOA_1

ClientSampleId :

VSTDICCC010

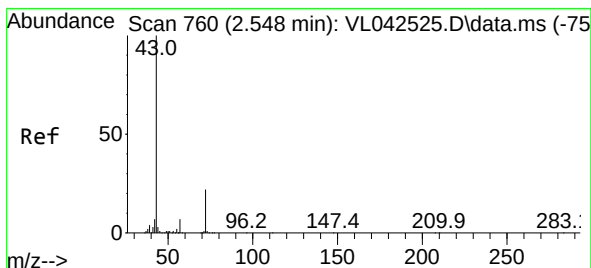
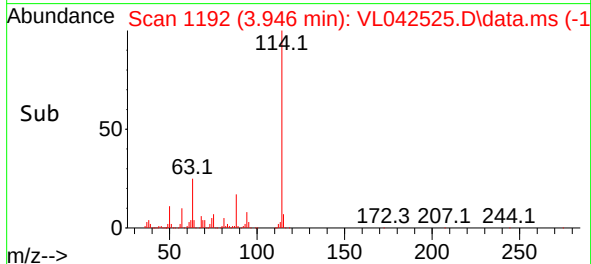
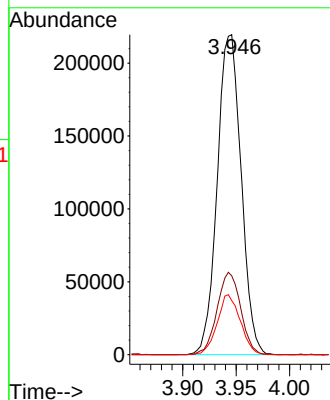
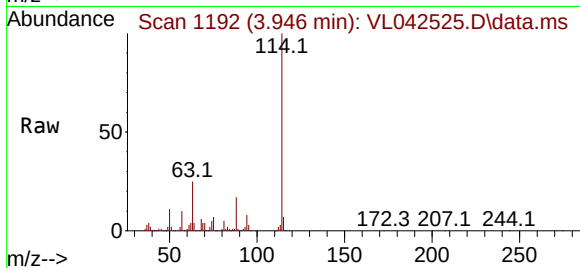
Tgt Ion:114 Resp: 341715

Ion Ratio Lower Upper

114 100

63 25.5 20.4 30.6

88 18.1 14.5 21.7



#34

2-Butanone

Concen: 9.075 ppbv

RT: 2.548 min Scan# 760

Delta R.T. 0.000 min

Lab File: VL042525.D

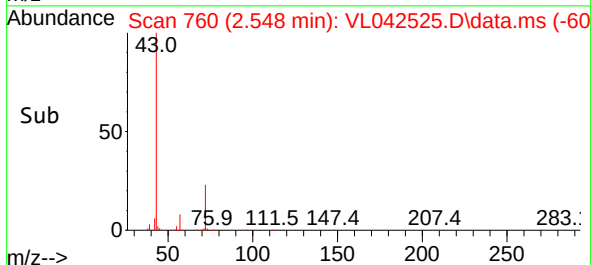
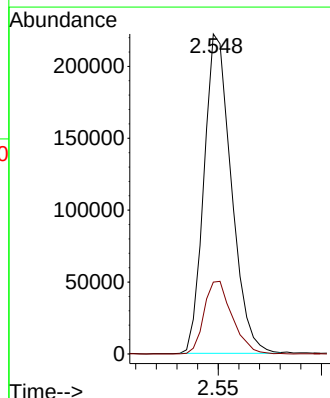
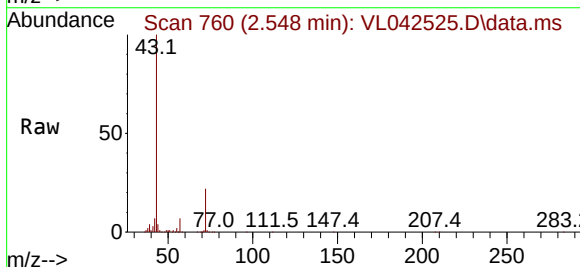
Acq: 12 May 2025 08:57

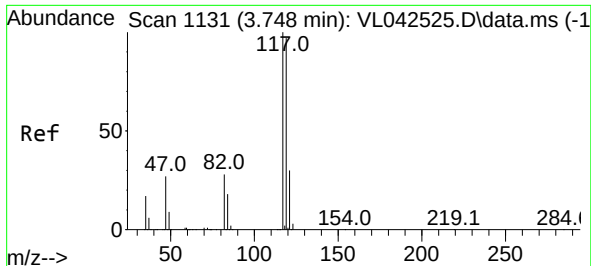
Tgt Ion: 43 Resp: 204394

Ion Ratio Lower Upper

43 100

72 23.4 18.7 28.1

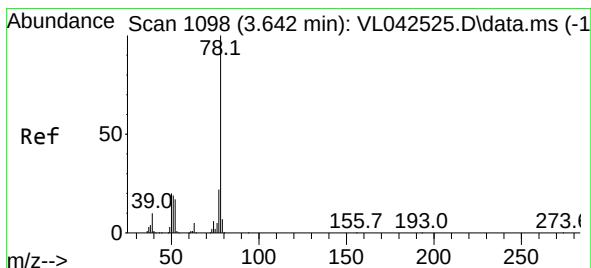
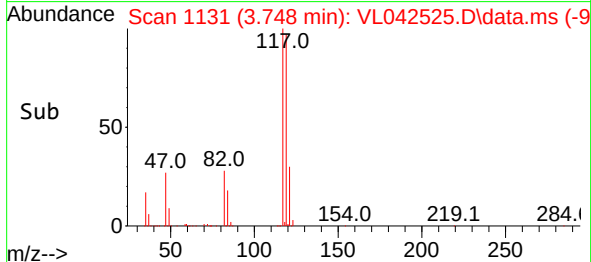
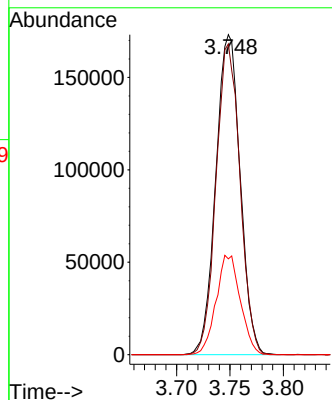
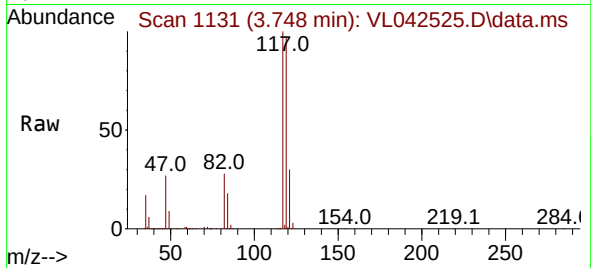




#35
Carbon Tetrachloride
Concen: 8.956 ppbv
RT: 3.748 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

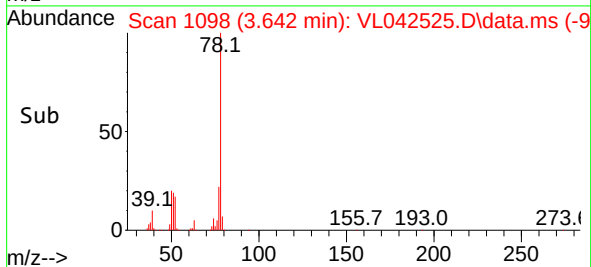
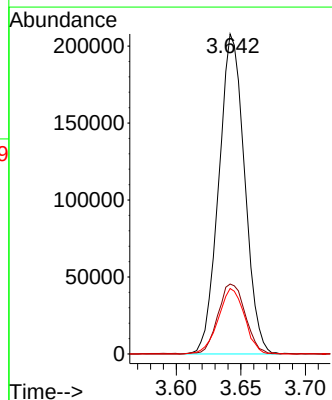
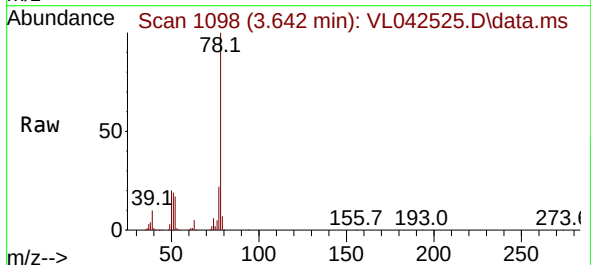
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

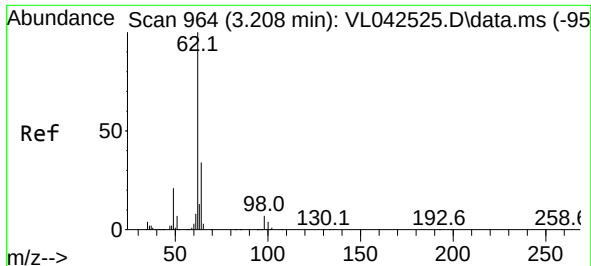
Tgt Ion:117 Resp: 275147
Ion Ratio Lower Upper
117 100
119 97.1 77.7 116.5
121 30.0 24.0 36.0



#36
Benzene
Concen: 9.522 ppbv
RT: 3.642 min Scan# 1098
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

Tgt Ion: 78 Resp: 288357
Ion Ratio Lower Upper
78 100
77 21.8 17.4 26.2
50 20.4 16.3 24.5





#37

1,2-Dichloroethane

Concen: 9.003 ppbv

RT: 3.208 min Scan# 9

Delta R.T. 0.000 min

Lab File: VL042525.D

Acq: 12 May 2025 08:57

Instrument :

MSVOA_1

ClientSampleId :

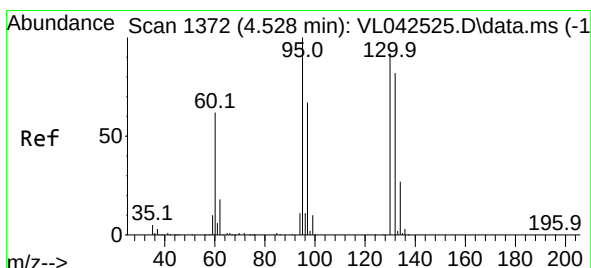
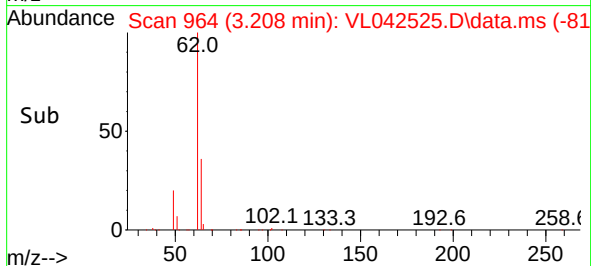
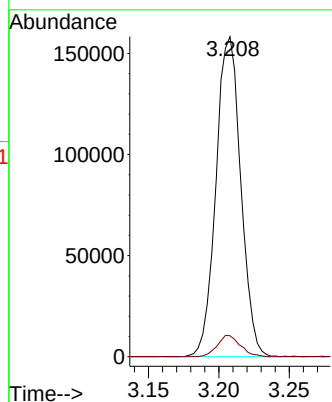
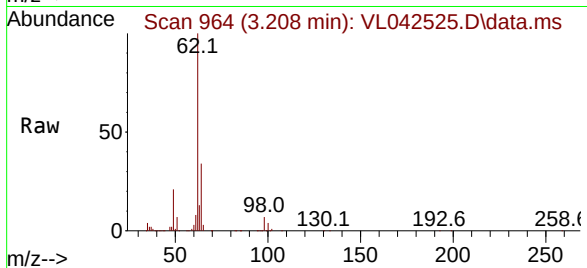
VSTDICCC010

Tgt Ion: 62 Resp: 194477

Ion Ratio Lower Upper

62 100

98 6.2 5.0 7.4



#38

Trichloroethene

Concen: 9.520 ppbv

RT: 4.528 min Scan# 1372

Delta R.T. 0.000 min

Lab File: VL042525.D

Acq: 12 May 2025 08:57

Tgt Ion:130 Resp: 123174

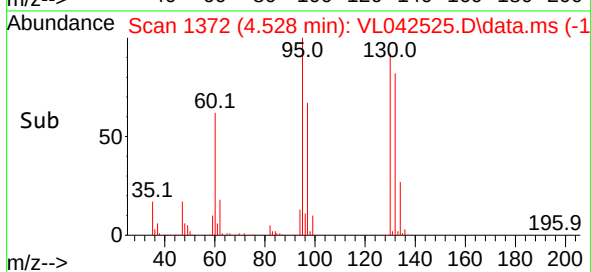
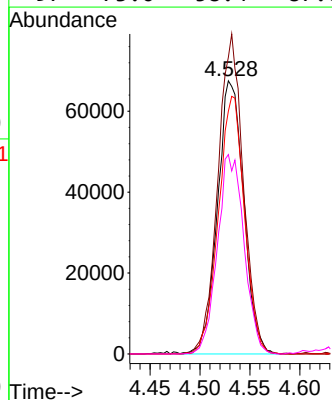
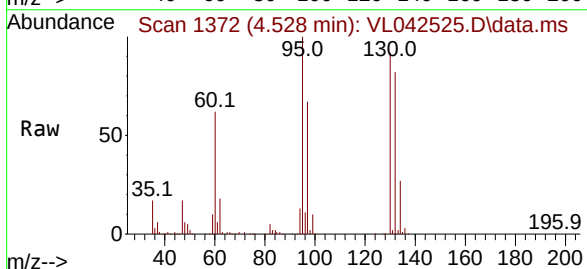
Ion Ratio Lower Upper

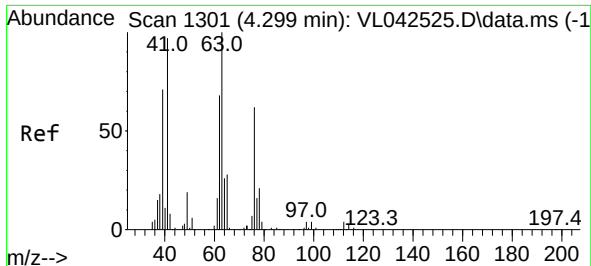
130 100

95 108.7 87.0 130.4

132 88.9 71.1 106.7

97 73.0 58.4 87.6





#39

1,2-Dichloropropane

Concen: 9.342 ppbv

RT: 4.299 min Scan# 1301

Delta R.T. 0.000 min

Lab File: VL042525.D

Acq: 12 May 2025 08:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

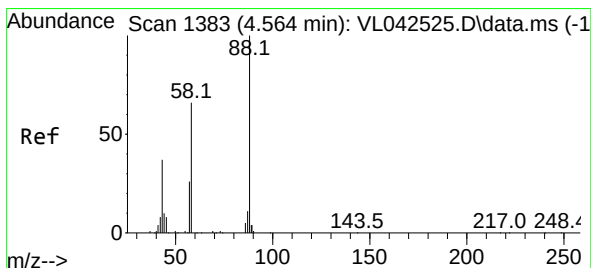
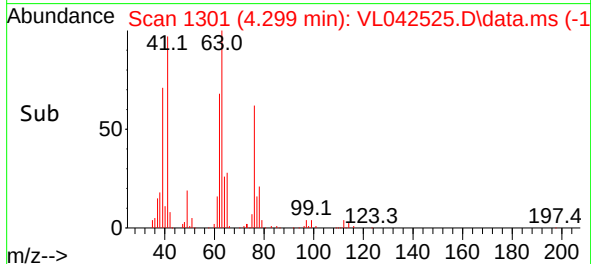
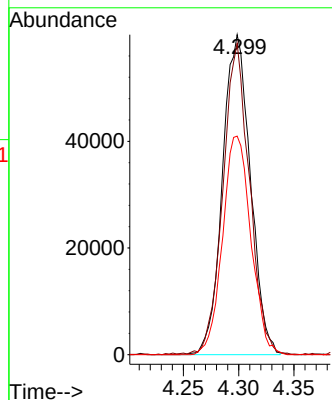
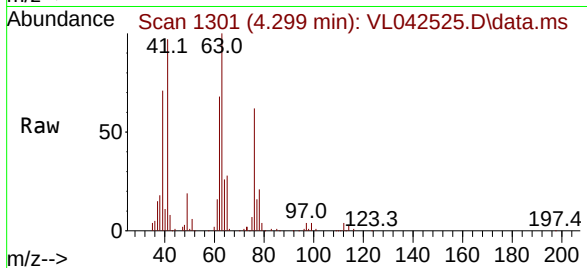
Tgt Ion: 63 Resp: 105313

Ion Ratio Lower Upper

63 100

41 96.9 77.5 116.3

62 68.3 54.6 82.0



#40

1,4-Dioxane

Concen: 10.246 ppbv

RT: 4.564 min Scan# 1383

Delta R.T. 0.000 min

Lab File: VL042525.D

Acq: 12 May 2025 08:57

Tgt Ion: 88 Resp: 46049

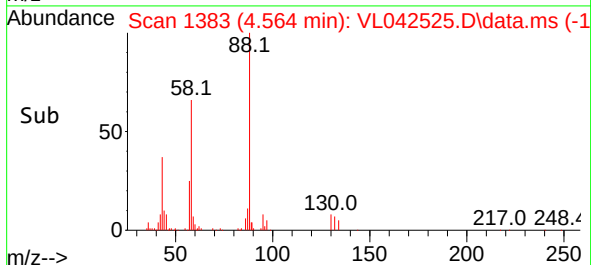
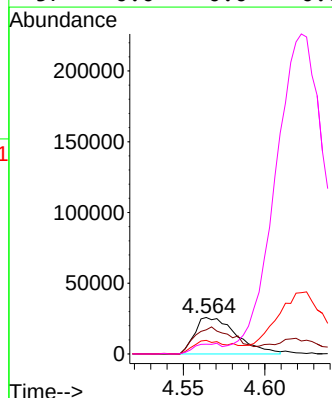
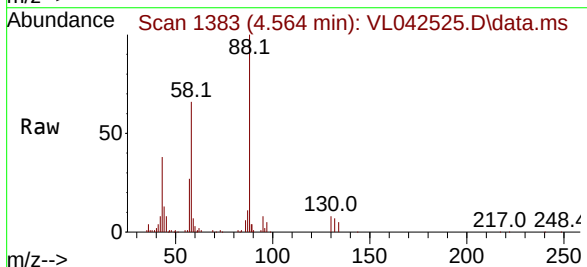
Ion Ratio Lower Upper

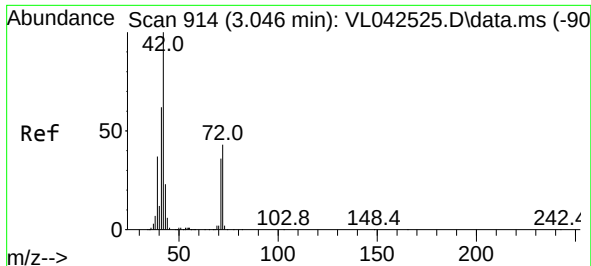
88 100

58 75.5 58.2 87.2

43 37.5 27.9 41.9

57 0.0 0.0 0.0





#41

Tetrahydrofuran

Concen: 10.824 ppbv

RT: 3.046 min Scan# 914

Delta R.T. 0.000 min

Lab File: VL042525.D

Acq: 12 May 2025 08:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

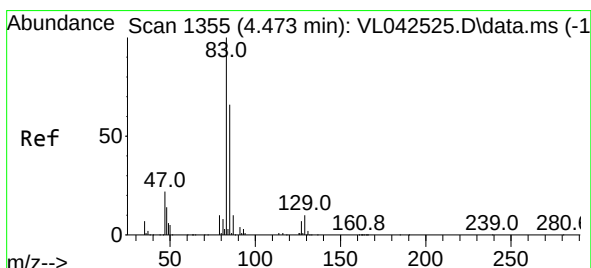
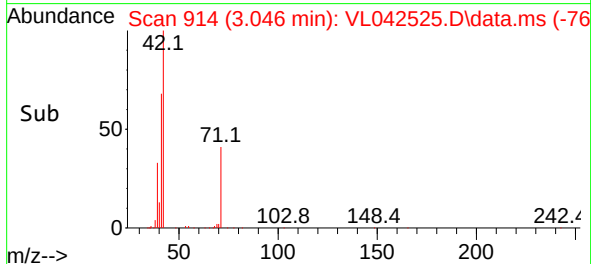
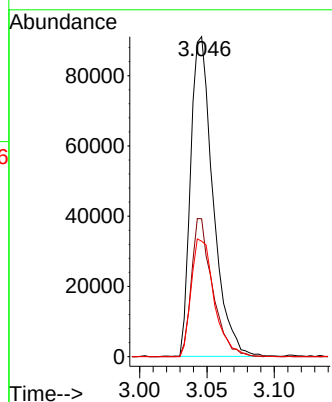
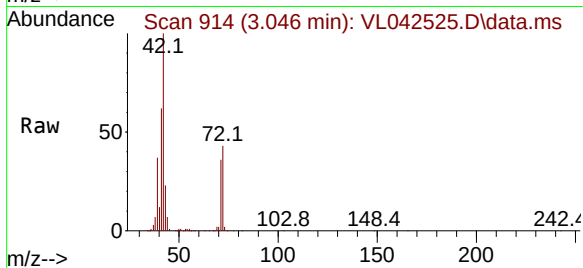
Tgt Ion: 42 Resp: 105158

Ion Ratio Lower Upper

42 100

72 40.9 32.7 49.1

71 38.0 30.4 45.6



#42

Bromodichloromethane

Concen: 9.286 ppbv

RT: 4.473 min Scan# 1355

Delta R.T. 0.000 min

Lab File: VL042525.D

Acq: 12 May 2025 08:57

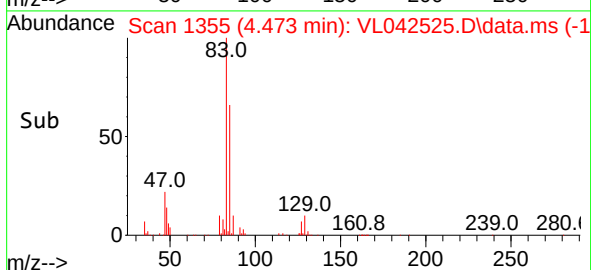
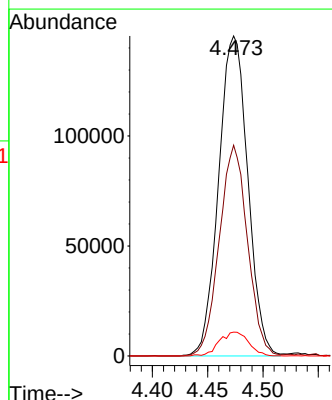
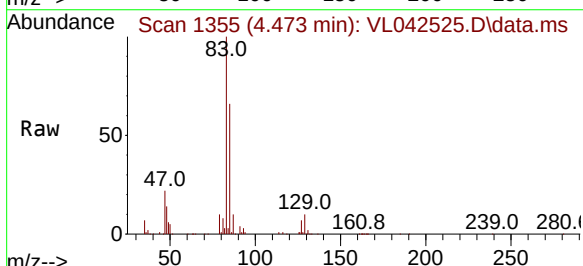
Tgt Ion: 83 Resp: 267225

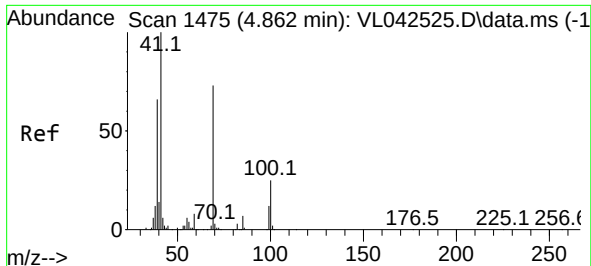
Ion Ratio Lower Upper

83 100

85 65.8 52.6 79.0

127 7.5 6.0 9.0

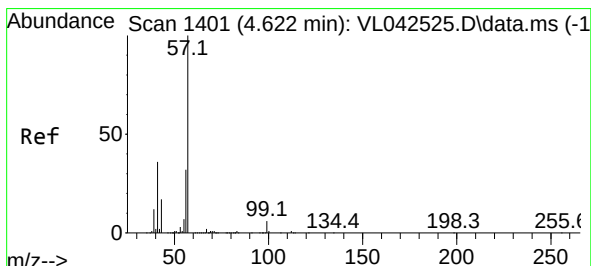
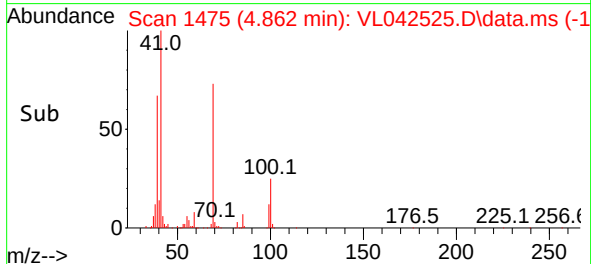
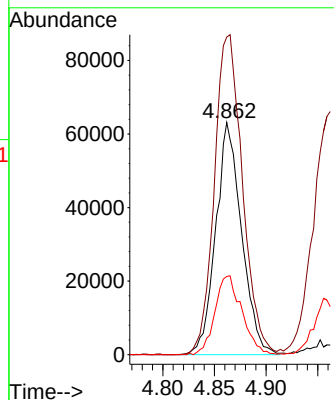
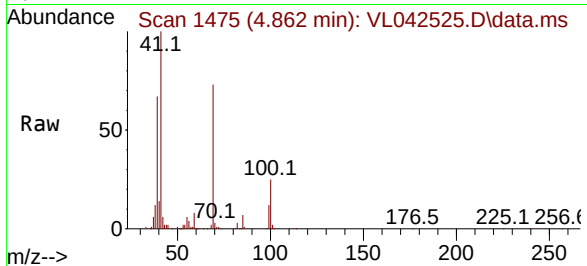




#43
Methyl Methacrylate
Concen: 10.879 ppbv
RT: 4.862 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

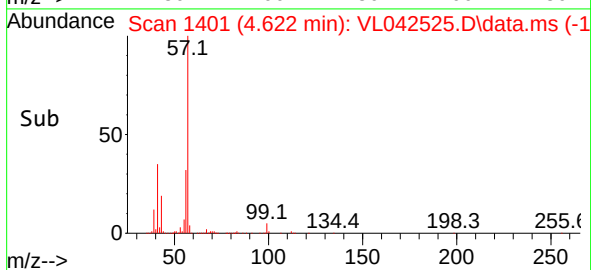
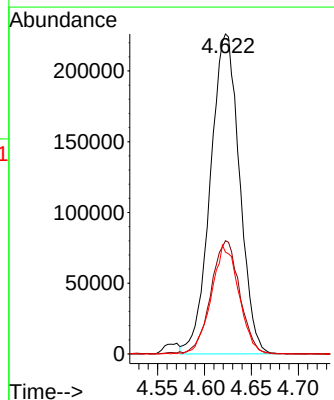
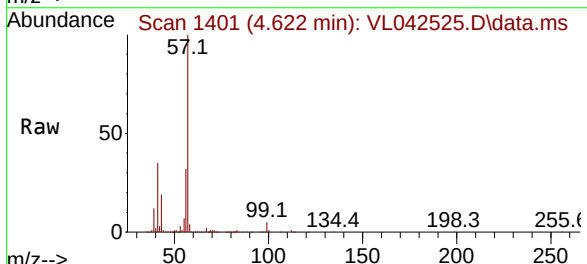
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

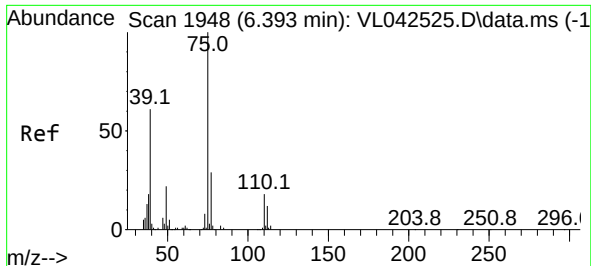
Tgt Ion: 69 Resp: 110028
Ion Ratio Lower Upper
69 100
41 150.0 119.9 179.9
100 35.5 28.4 42.6



#44
2,2,4-Trimethylpentane
Concen: 10.240 ppbv
RT: 4.622 min Scan# 1401
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

Tgt Ion: 57 Resp: 486999
Ion Ratio Lower Upper
57 100
41 35.4 28.3 42.5
56 32.4 25.9 38.9

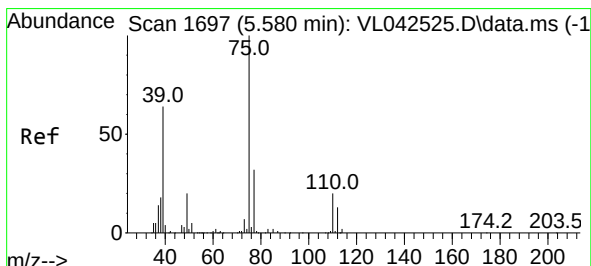
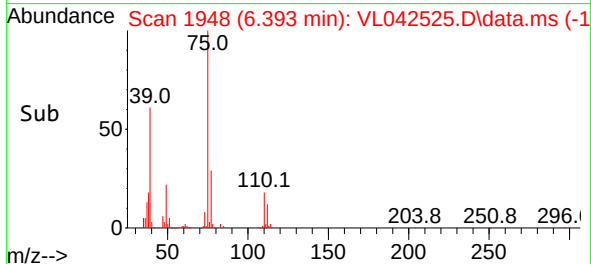
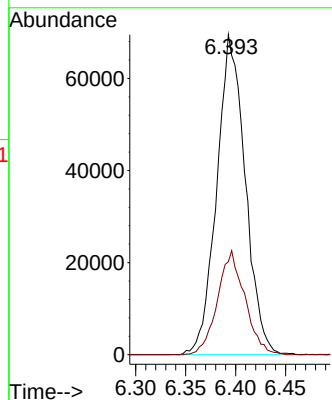
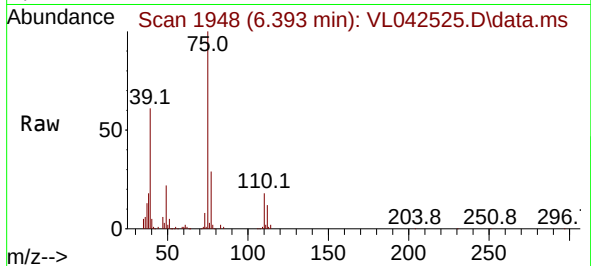




#45
 t-1,3-Dichloropropene
 Concen: 10.664 ppbv
 RT: 6.393 min Scan# 1948
 Delta R.T. 0.000 min
 Lab File: VL042525.D
 Acq: 12 May 2025 08:57

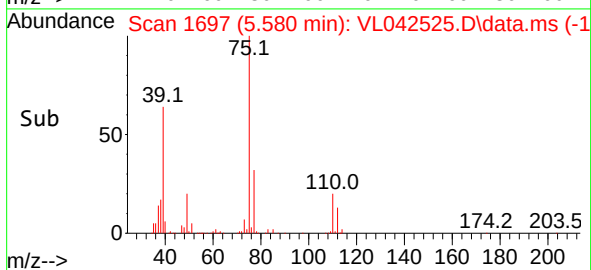
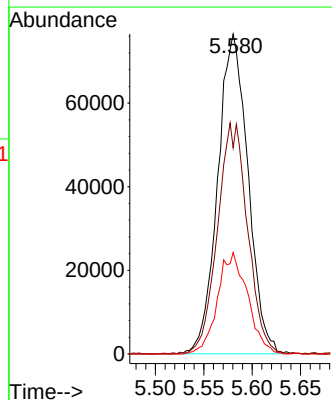
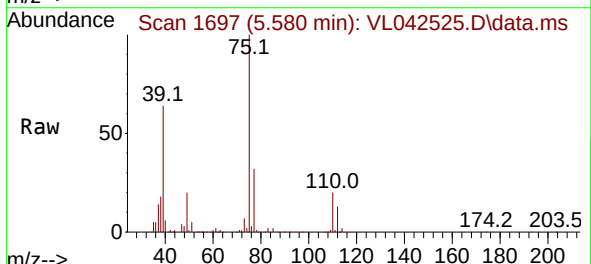
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

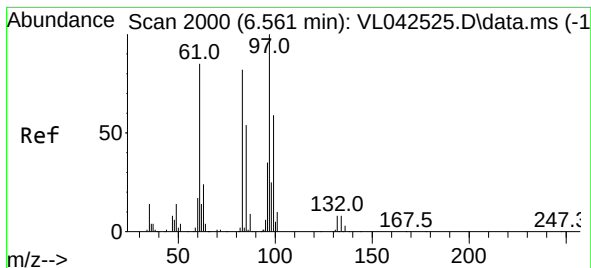
Tgt Ion: 75 Resp: 137698
 Ion Ratio Lower Upper
 75 100
 77 29.1 23.3 34.9



#46
 cis-1,3-Dichloropropene
 Concen: 10.673 ppbv
 RT: 5.580 min Scan# 1697
 Delta R.T. 0.000 min
 Lab File: VL042525.D
 Acq: 12 May 2025 08:57

Tgt Ion: 75 Resp: 166227
 Ion Ratio Lower Upper
 75 100
 39 64.0 51.2 76.8
 77 31.7 25.4 38.0





#47

1,1,2-Trichloroethane

Concen: 9.025 ppbv

RT: 6.561 min Scan# 2000

Delta R.T. 0.000 min

Lab File: VL042525.D

Acq: 12 May 2025 08:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 97 Resp: 119791

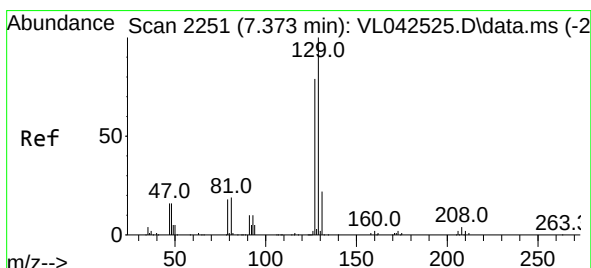
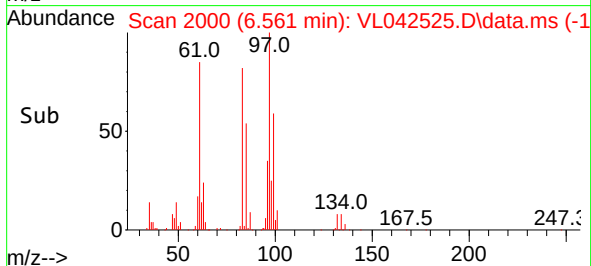
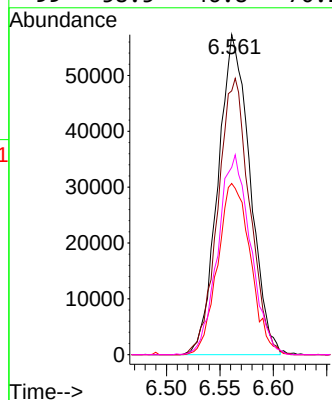
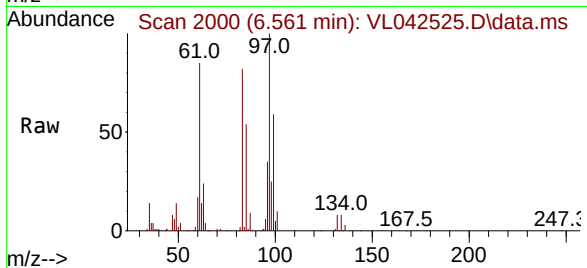
Ion Ratio Lower Upper

97 100

83 82.5 66.0 99.0

85 53.5 42.8 64.2

99 58.5 46.8 70.2



#48

Dibromochloromethane

Concen: 9.517 ppbv

RT: 7.373 min Scan# 2251

Delta R.T. 0.000 min

Lab File: VL042525.D

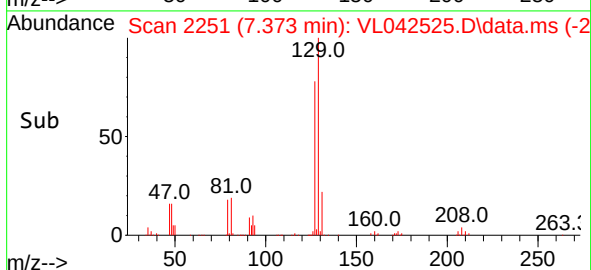
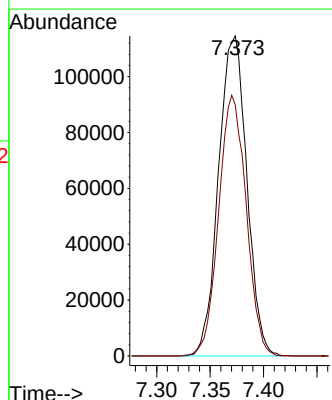
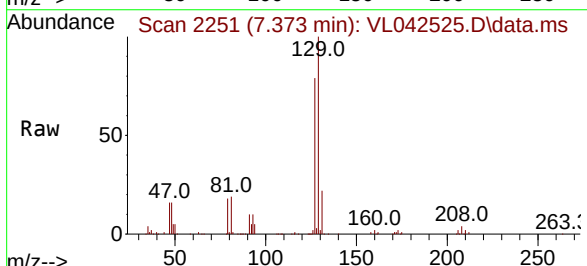
Acq: 12 May 2025 08:57

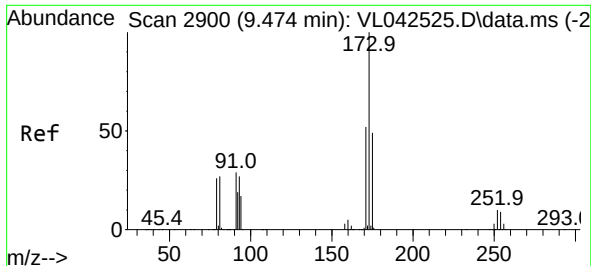
Tgt Ion: 129 Resp: 211079

Ion Ratio Lower Upper

129 100

127 79.2 39.6 118.8

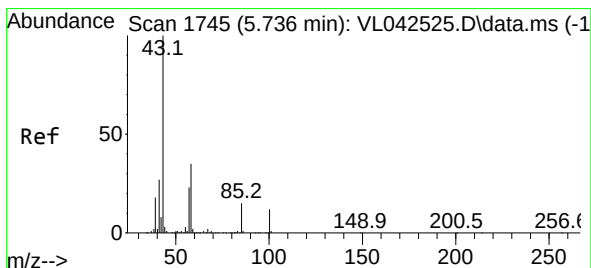
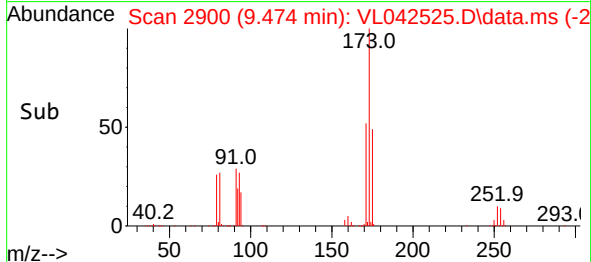
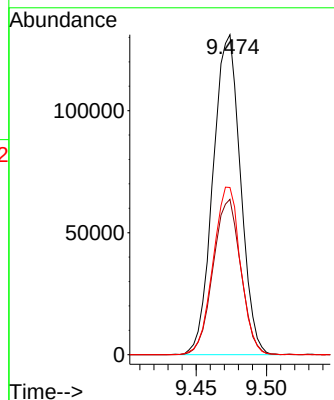
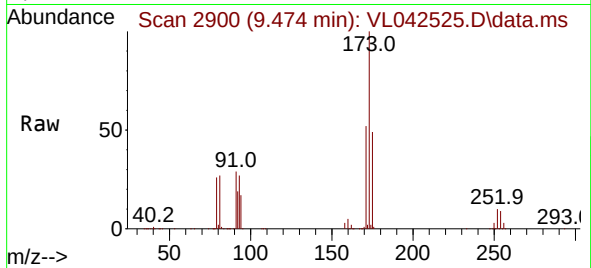




#49
Bromoform
Concen: 9.802 ppbv
RT: 9.474 min Scan# 2900
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

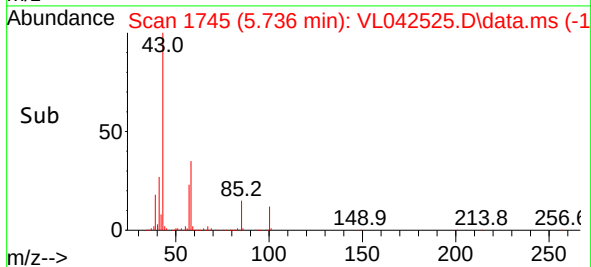
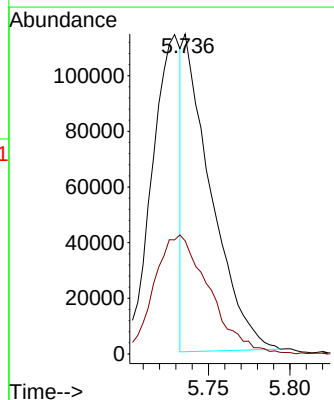
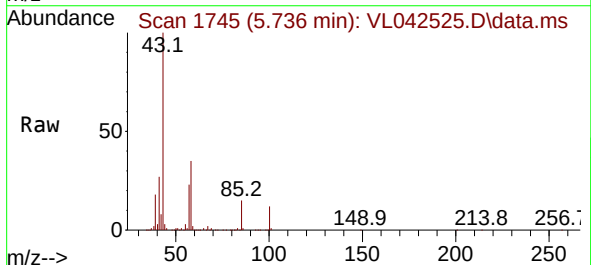
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

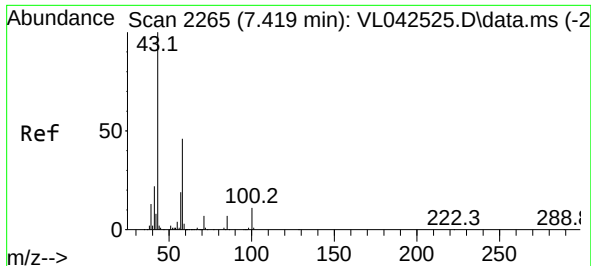
Tgt Ion:173 Resp: 178401
Ion Ratio Lower Upper
173 100
175 48.9 39.1 58.7
171 52.3 41.8 62.8



#50
4-Methyl-2-Pentanone
Concen: 5.159 ppbv
RT: 5.736 min Scan# 1745
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

Tgt Ion: 43 Resp: 136273
Ion Ratio Lower Upper
43 100
58 74.1 28.6 42.8#

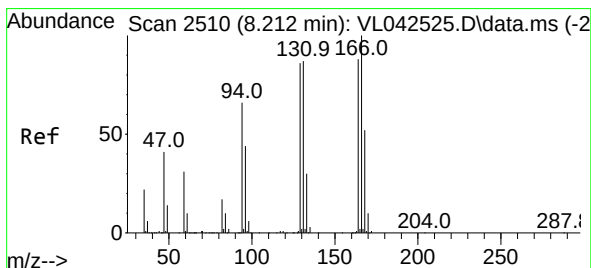
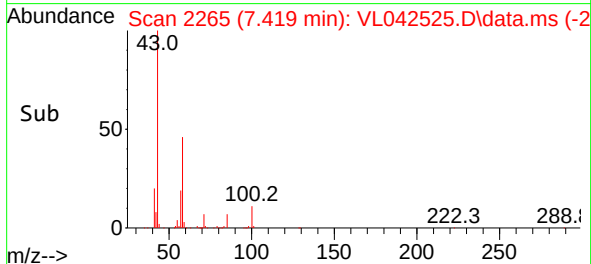
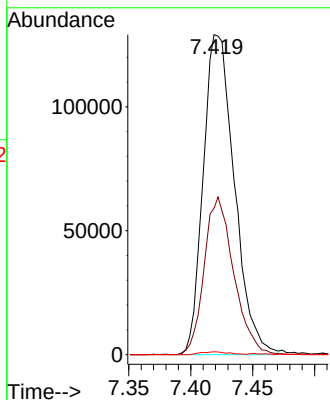
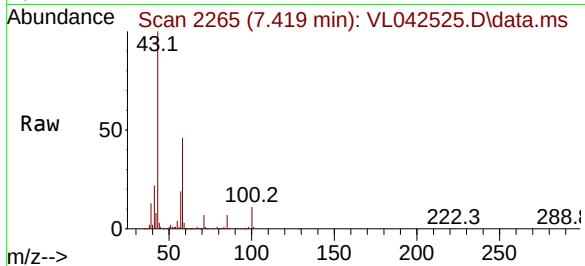




#51
2-Hexanone
Concen: 11.522 ppbv
RT: 7.419 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

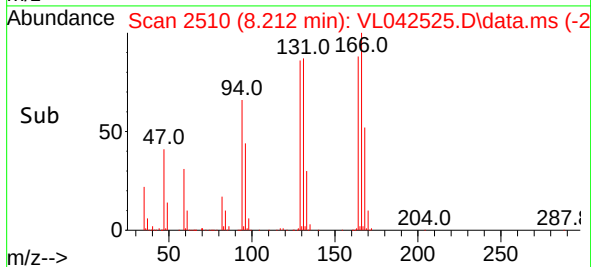
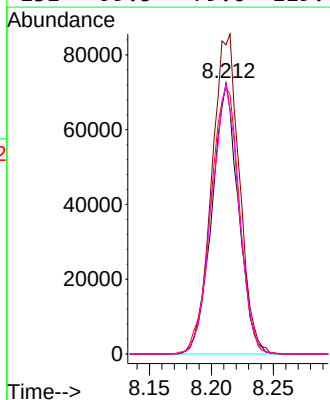
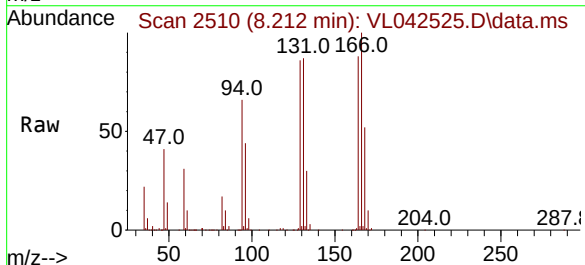
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

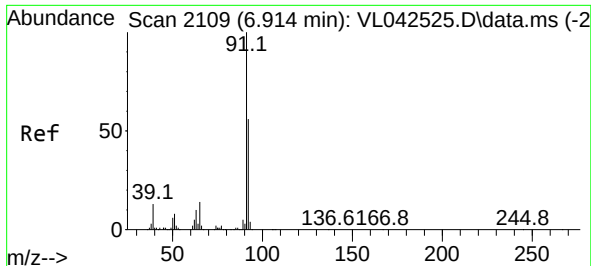
Tgt Ion: 43 Resp: 226227
Ion Ratio Lower Upper
43 100
58 46.8 37.5 56.3
98 1.1 0.9 1.3



#52
Tetrachloroethene
Concen: 9.209 ppbv
RT: 8.212 min Scan# 2510
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

Tgt Ion: 164 Resp: 107438
Ion Ratio Lower Upper
164 100
166 114.1 91.3 136.9
129 98.6 78.9 118.3
131 99.5 79.6 119.4

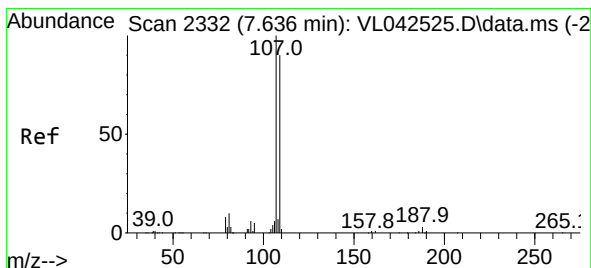
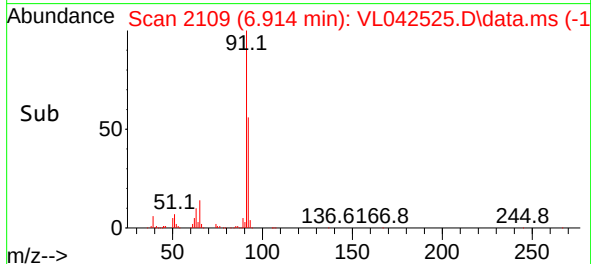
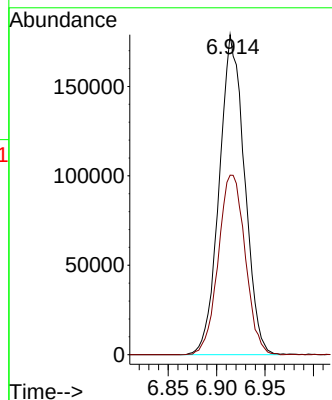
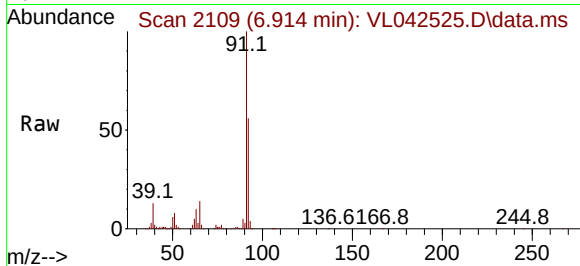




#53
Toluene
Concen: 10.955 ppbv
RT: 6.914 min Scan# 2109
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

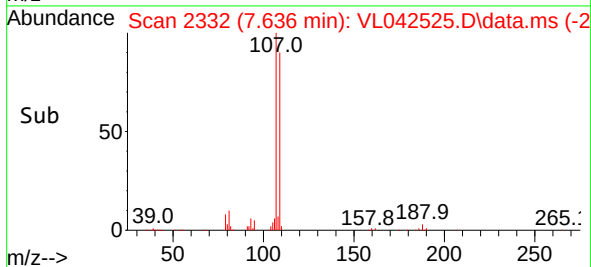
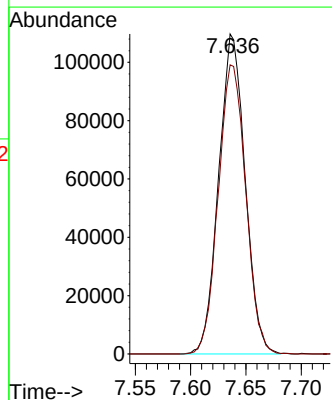
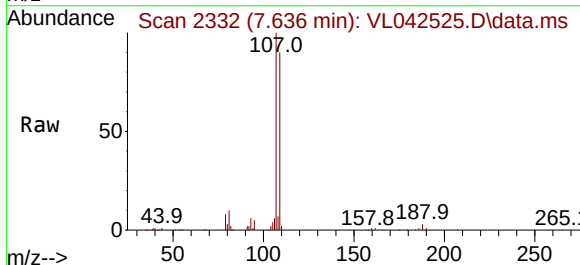
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

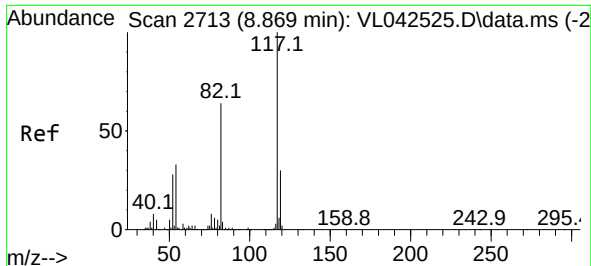
Tgt Ion: 91 Resp: 325568
Ion Ratio Lower Upper
91 100
92 59.7 47.8 71.6



#54
1,2-Dibromoethane
Concen: 9.400 ppbv
RT: 7.636 min Scan# 2332
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

Tgt Ion: 107 Resp: 182336
Ion Ratio Lower Upper
107 100
109 90.3 72.2 108.4

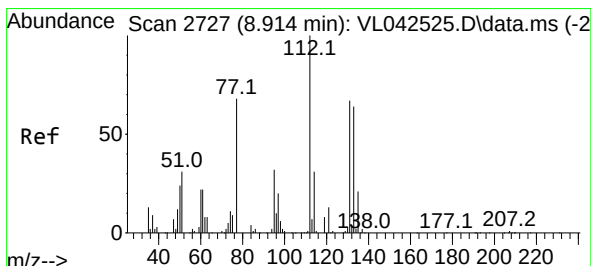
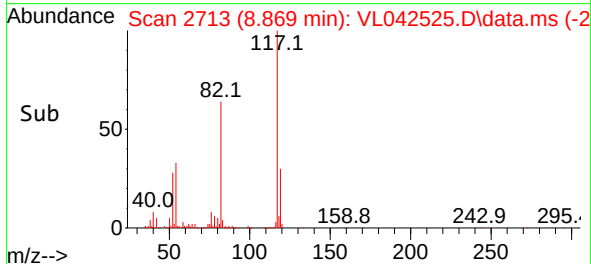
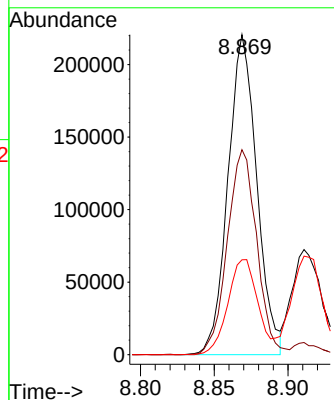
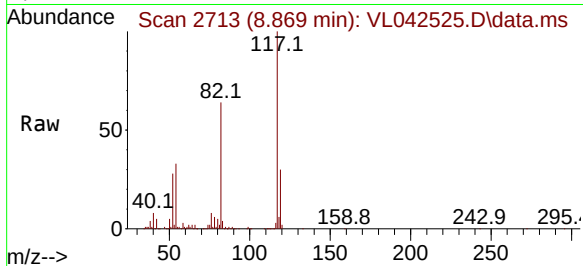




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.869 min Scan# 2713
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

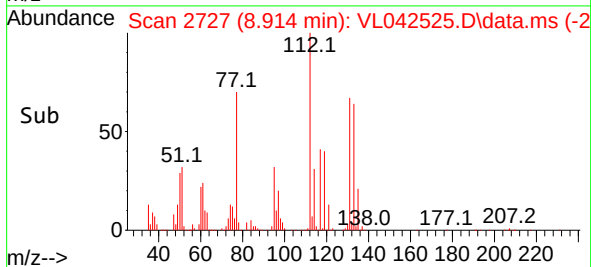
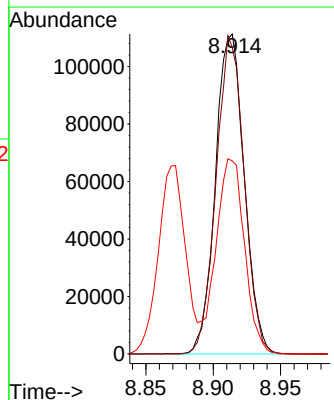
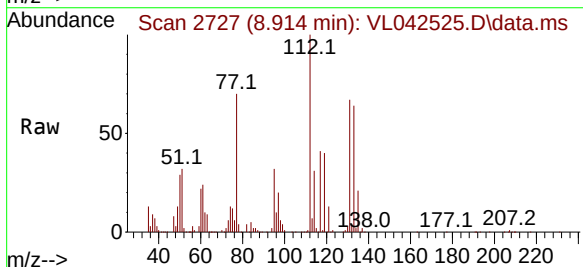
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

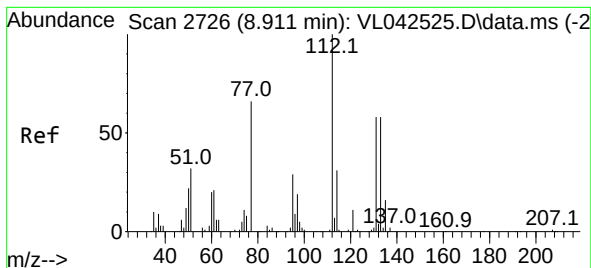
Tgt Ion:117 Resp: 299786
Ion Ratio Lower Upper
117 100
82 68.7 55.0 82.4
119 32.2 25.8 38.6



#56
1,1,1,2-Tetrachloroethane
Concen: 8.909 ppbv
RT: 8.914 min Scan# 2727
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

Tgt Ion:131 Resp: 165589
Ion Ratio Lower Upper
131 100
133 96.8 77.4 116.2
119 59.8 49.0 73.4





#57

Chlorobenzene

Concen: 9.077 ppbv

RT: 8.911 min Scan# 21

Delta R.T. 0.000 min

Lab File: VL042525.D

Acq: 12 May 2025 08:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

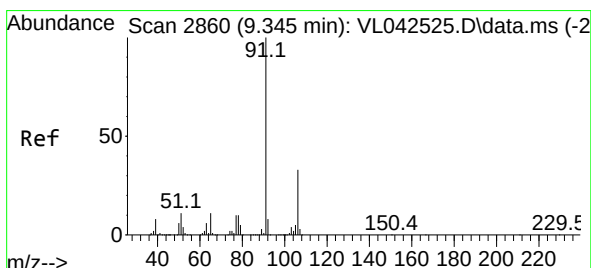
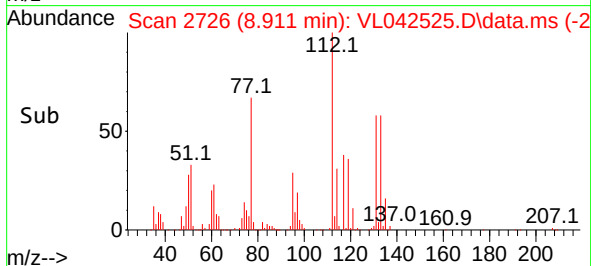
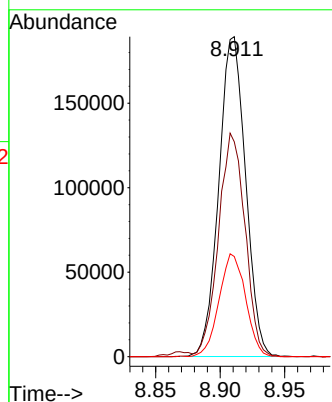
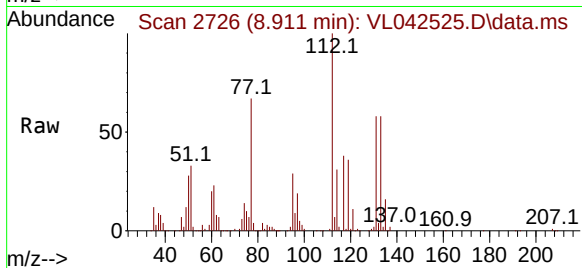
Tgt Ion:112 Resp: 273225

Ion Ratio Lower Upper

112 100

77 67.0 53.6 80.4

114 31.3 28.2 34.4



#58

Ethyl Benzene

Concen: 11.466 ppbv

RT: 9.345 min Scan# 2860

Delta R.T. 0.000 min

Lab File: VL042525.D

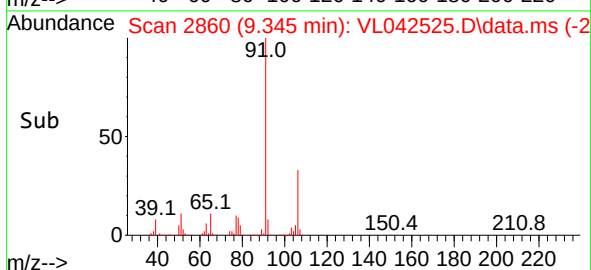
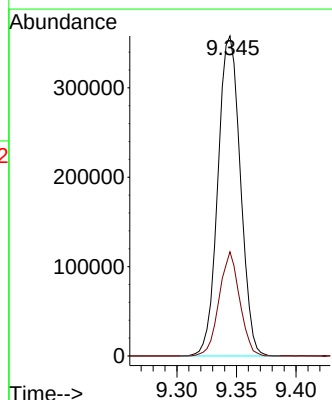
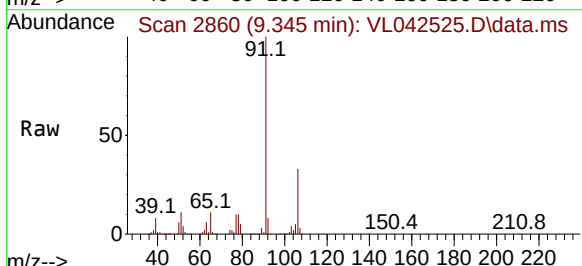
Acq: 12 May 2025 08:57

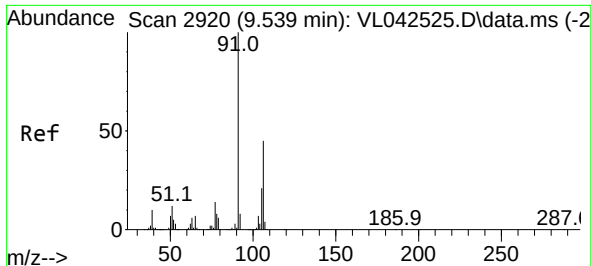
Tgt Ion: 91 Resp: 468520

Ion Ratio Lower Upper

91 100

106 32.5 26.0 39.0





#59

m/p-Xylene

Concen: 11.184 ppbv

RT: 9.539 min Scan# 2920

Delta R.T. 0.000 min

Lab File: VL042525.D

Acq: 12 May 2025 08:57

Instrument :

MSVOA_1

ClientSampleId :

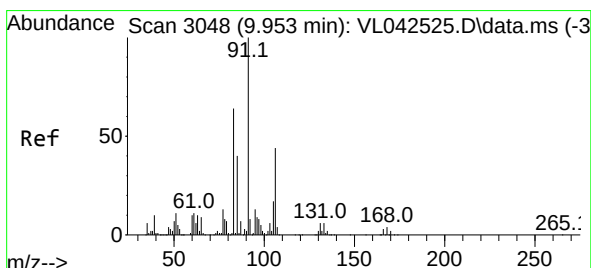
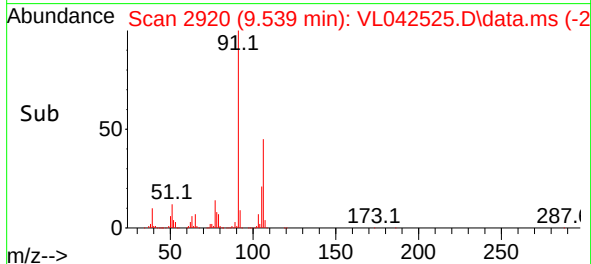
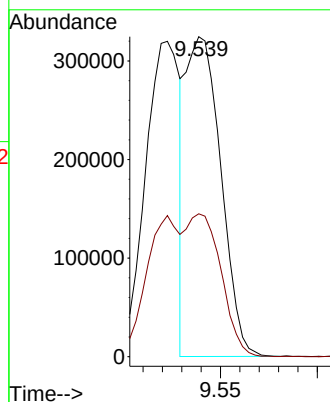
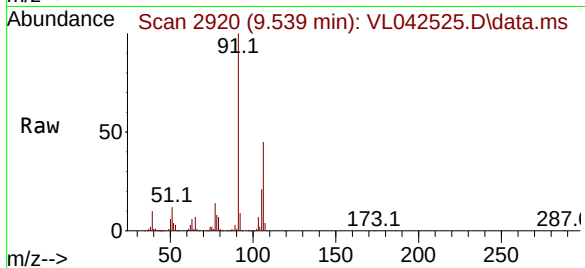
VSTDICCC010

Tgt Ion: 91 Resp: 406543

Ion Ratio Lower Upper

91 100

106 87.7 0.0 0.0#



#60

o-Xylene

Concen: 11.266 ppbv

RT: 9.953 min Scan# 3048

Delta R.T. 0.000 min

Lab File: VL042525.D

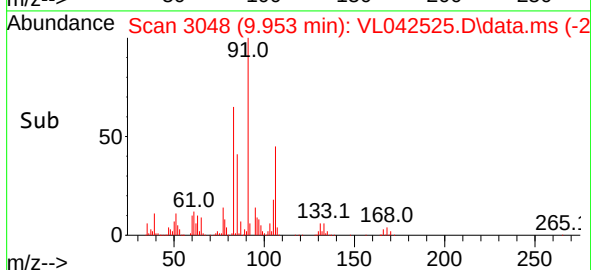
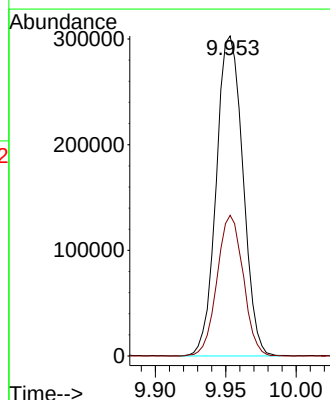
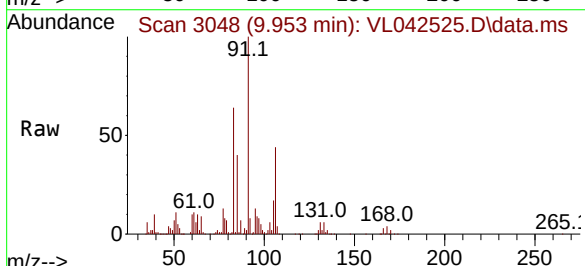
Acq: 12 May 2025 08:57

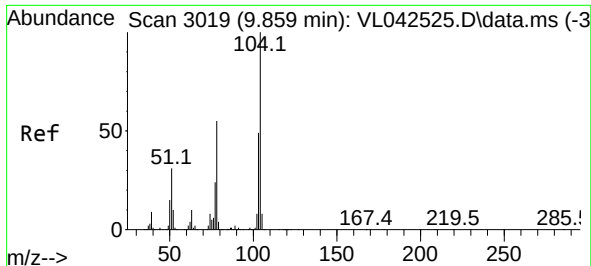
Tgt Ion: 91 Resp: 399046

Ion Ratio Lower Upper

91 100

106 43.1 21.6 64.6

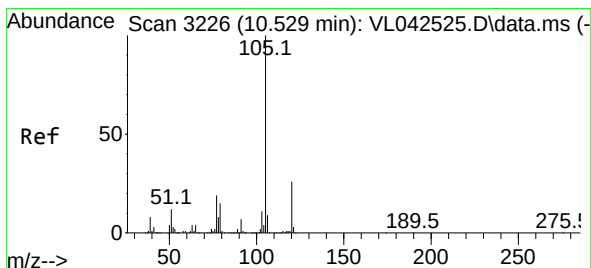
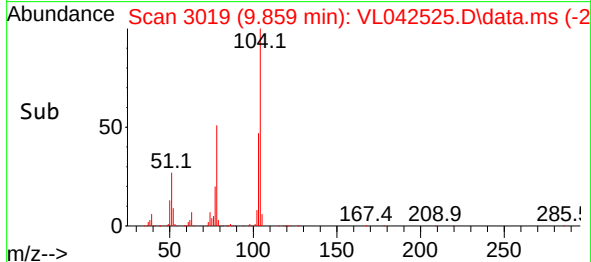
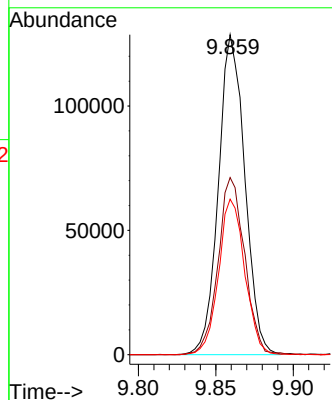
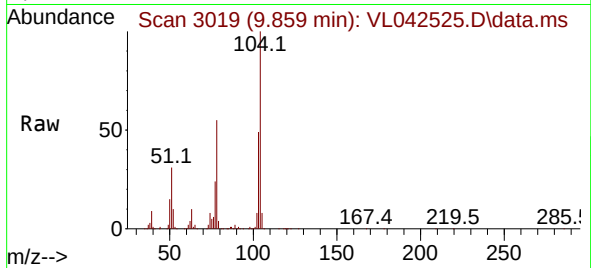




#61
Styrene
Concen: 11.686 ppbv
RT: 9.859 min Scan# 3019
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

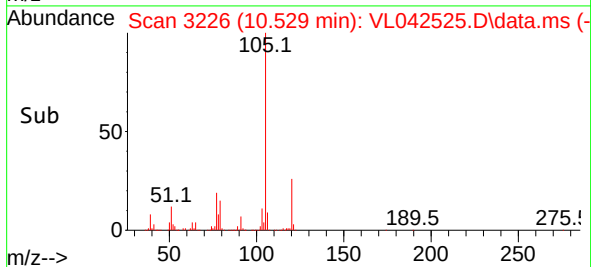
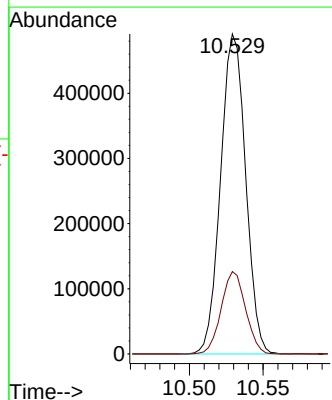
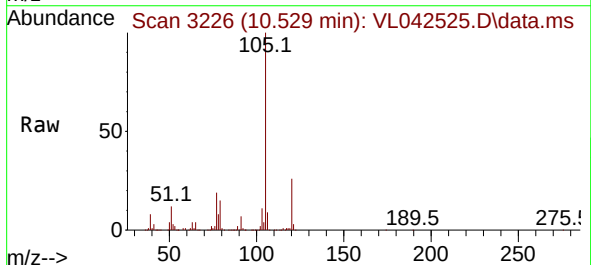
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

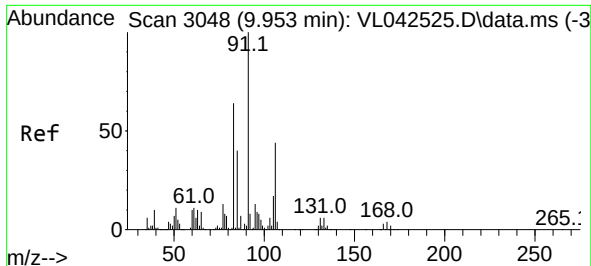
Tgt Ion:104 Resp: 152478
Ion Ratio Lower Upper
104 100
78 55.8 44.7 67.1
103 48.3 38.6 58.0



#62
Isopropylbenzene
Concen: 10.856 ppbv
RT: 10.529 min Scan# 3226
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

Tgt Ion:105 Resp: 579443
Ion Ratio Lower Upper
105 100
120 25.1 20.1 30.1

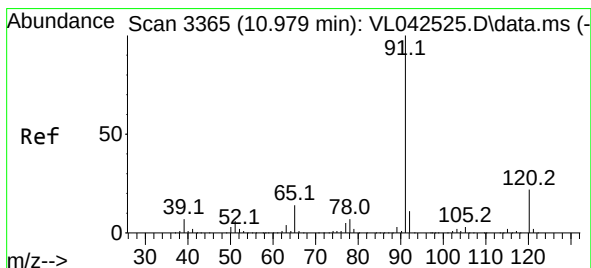
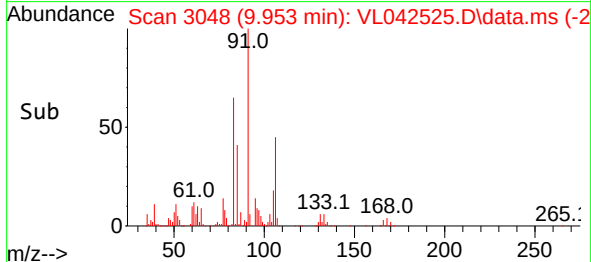
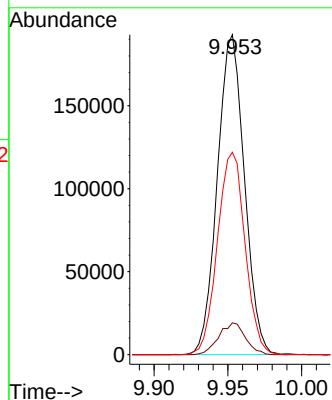
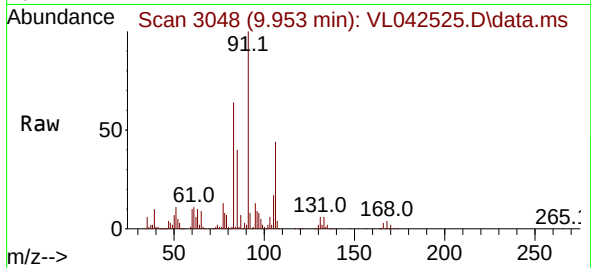




#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.666 ppbv
 RT: 9.953 min Scan# 3048
 Delta R.T. 0.000 min
 Lab File: VL042525.D
 Acq: 12 May 2025 08:57

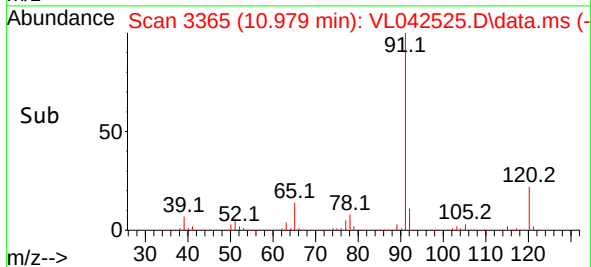
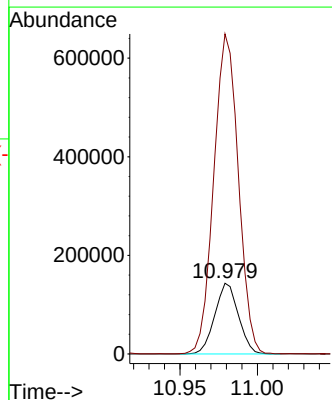
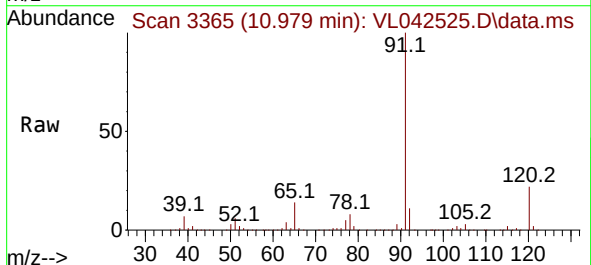
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

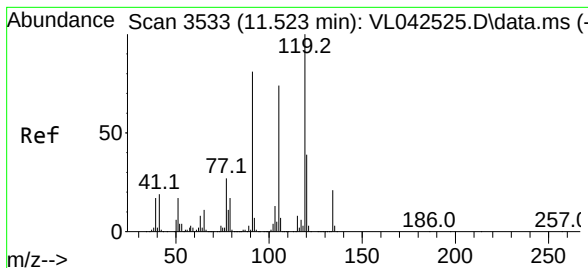
Tgt Ion: 83 Resp: 246197
 Ion Ratio Lower Upper
 83 100
 131 9.8 4.9 14.7
 85 64.5 32.3 96.8



#64
 n-propylbenzene
 Concen: 11.231 ppbv
 RT: 10.979 min Scan# 3365
 Delta R.T. 0.000 min
 Lab File: VL042525.D
 Acq: 12 May 2025 08:57

Tgt Ion: 120 Resp: 151897
 Ion Ratio Lower Upper
 120 100
 91 472.0 377.7 566.5

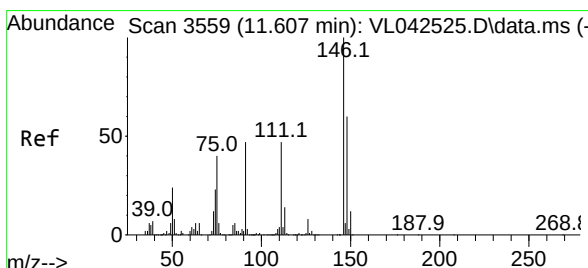
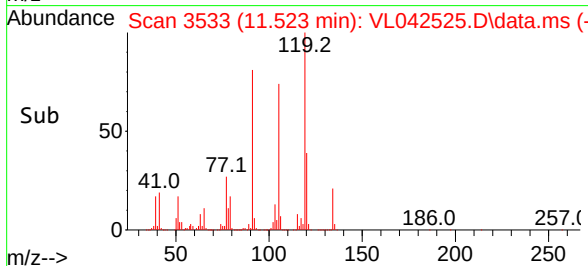
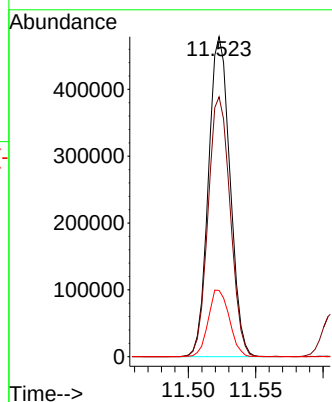
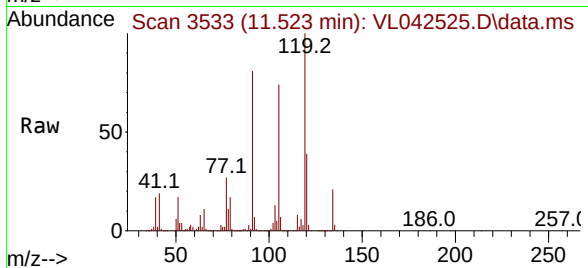




#65
tert-Butylbenzene
Concen: 10.884 ppbv
RT: 11.523 min Scan# 3533
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

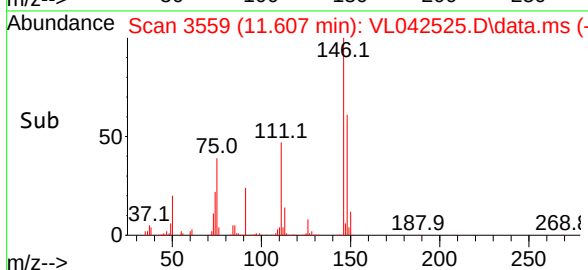
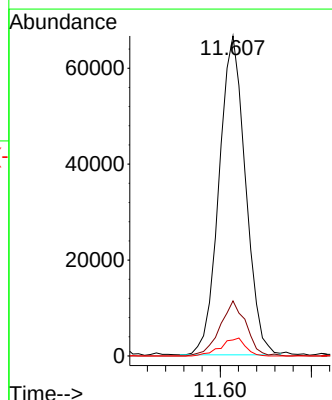
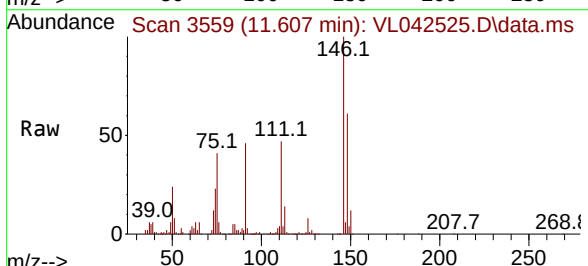
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

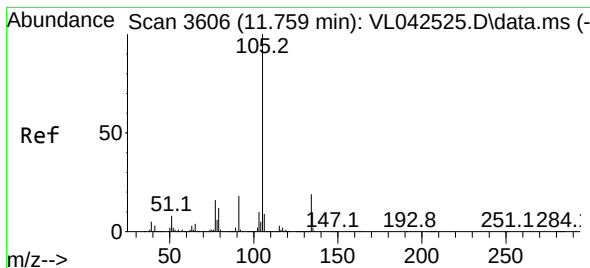
Tgt Ion:119 Resp: 533457
Ion Ratio Lower Upper
119 100
91 83.2 66.6 99.8
134 20.4 16.3 24.5



#66
Benzyl Chloride
Concen: 10.331 ppbv
RT: 11.607 min Scan# 3559
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

Tgt Ion: 91 Resp: 66999
Ion Ratio Lower Upper
91 100
126 17.1 13.7 20.5
128 5.2 4.2 6.2





#67

sec-Butylbenzene

Concen: 10.586 ppbv

RT: 11.759 min Scan# 3606

Delta R.T. 0.000 min

Lab File: VL042525.D

Acq: 12 May 2025 08:57

Instrument :

MSVOA_1

ClientSampleId :

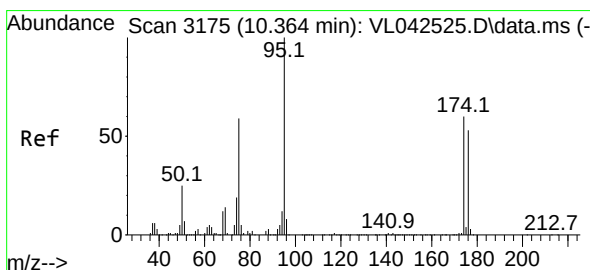
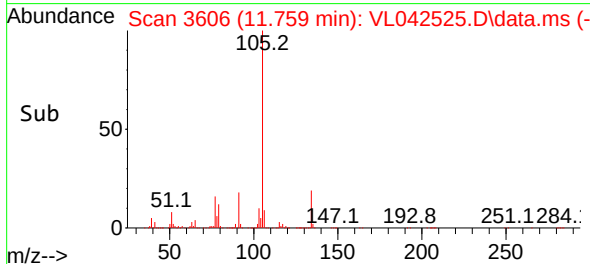
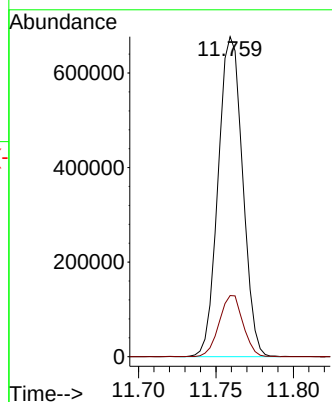
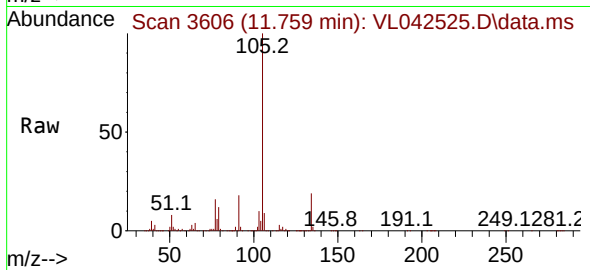
VSTDICCC010

Tgt Ion:105 Resp: 743905

Ion Ratio Lower Upper

105 100

134 18.6 14.9 22.3



#68

1-Bromo-4-Fluorobenzene

Concen: 10.029 ppbv

RT: 10.364 min Scan# 3175

Delta R.T. 0.000 min

Lab File: VL042525.D

Acq: 12 May 2025 08:57

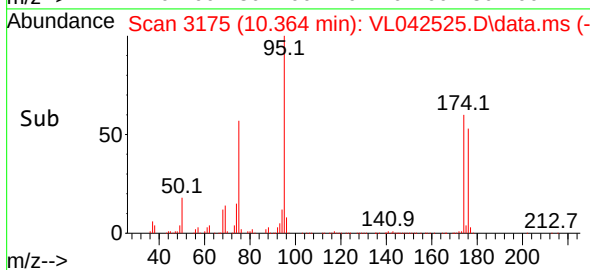
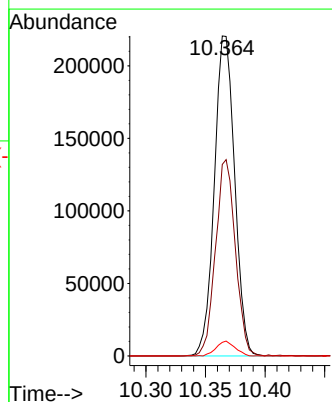
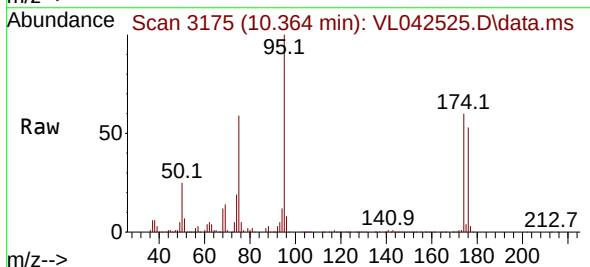
Tgt Ion: 95 Resp: 261594

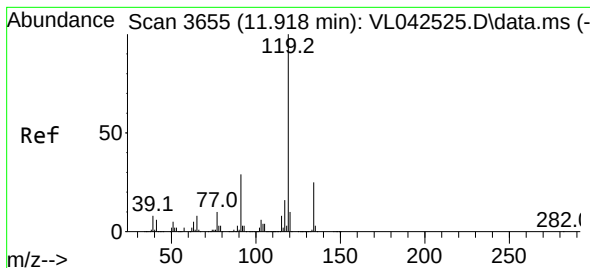
Ion Ratio Lower Upper

95 100

174 60.1 48.0 72.0

175 4.4 3.5 5.3

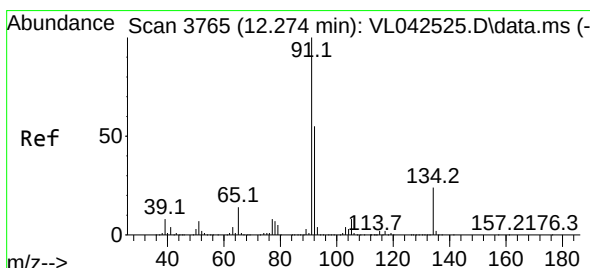
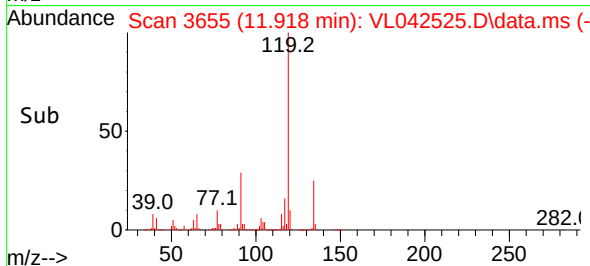
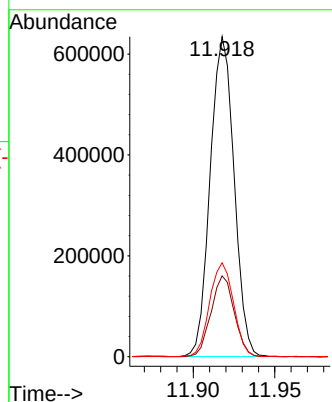
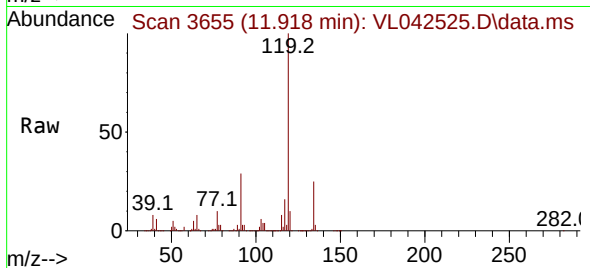




#69
p-Isopropyltoluene
Concen: 11.163 ppbv
RT: 11.918 min Scan# 3655
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

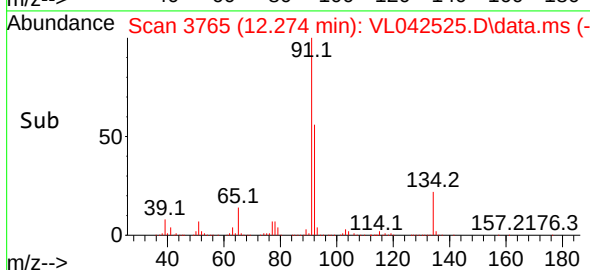
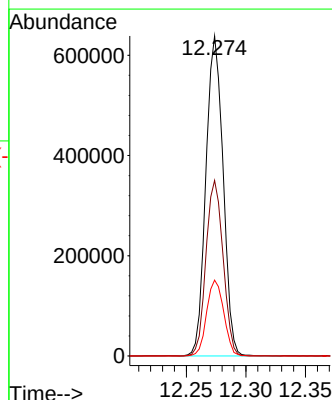
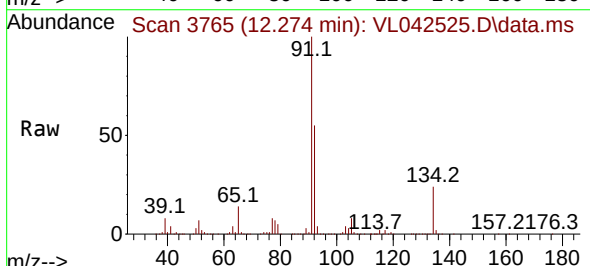
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

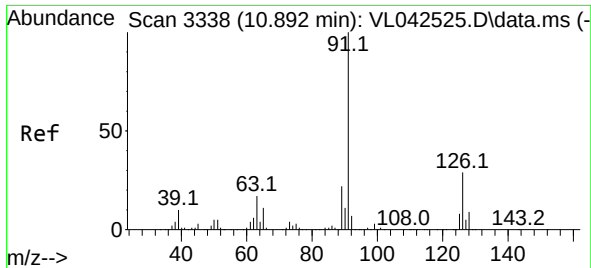
Tgt Ion:119 Resp: 644903
Ion Ratio Lower Upper
119 100
134 24.7 19.8 29.6
91 29.5 23.6 35.4



#70
n-Butylbenzene
Concen: 11.219 ppbv
RT: 12.274 min Scan# 3765
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

Tgt Ion: 91 Resp: 640472
Ion Ratio Lower Upper
91 100
92 54.6 43.7 65.5
134 23.6 18.9 28.3

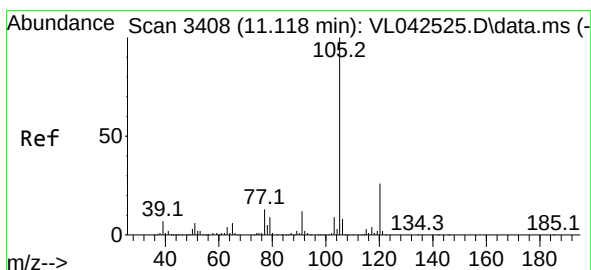
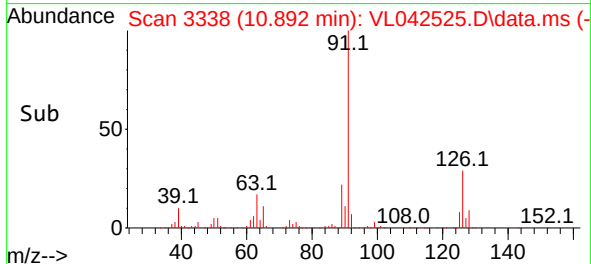
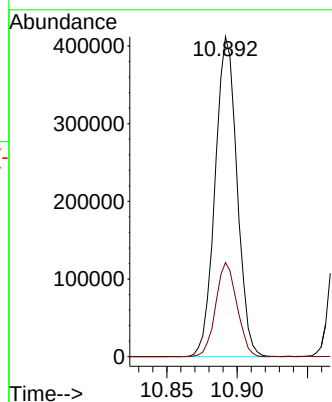
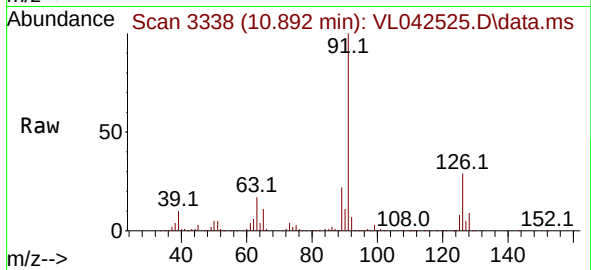




#71
2-Chlorotoluene
Concen: 11.047 ppbv
RT: 10.892 min Scan# 311
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

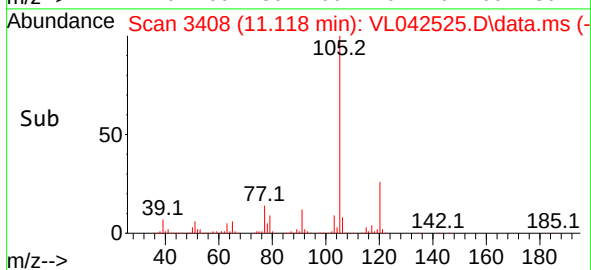
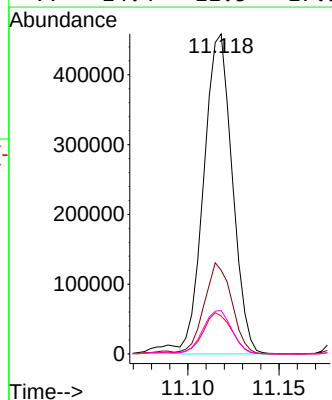
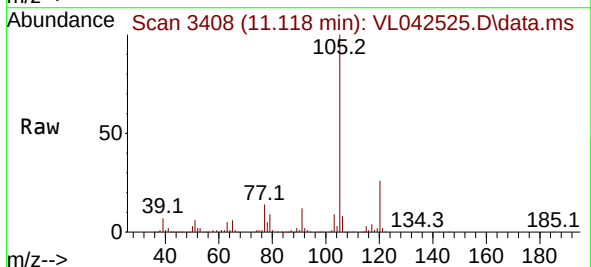
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

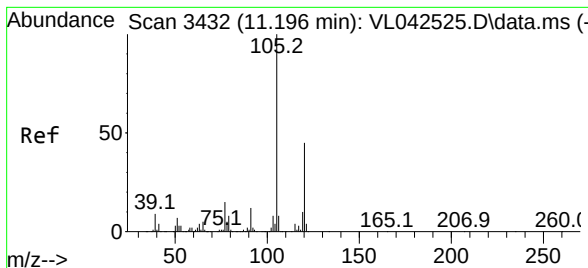
Tgt Ion: 91 Resp: 446467
Ion Ratio Lower Upper
91 100
126 28.5 11.4 45.6



#72
4-Ethyltoluene
Concen: 11.285 ppbv
RT: 11.118 min Scan# 3408
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

Tgt Ion: 105 Resp: 496120
Ion Ratio Lower Upper
105 100
120 28.6 22.9 34.3
91 13.6 10.9 16.3
77 14.4 11.5 17.3





#73

1,3,5-Trimethylbenzene

Concen: 11.076 ppbv

RT: 11.196 min Scan# 3432

Delta R.T. 0.000 min

Lab File: VL042525.D

Acq: 12 May 2025 08:57

Instrument :

MSVOA_1

ClientSampleId :

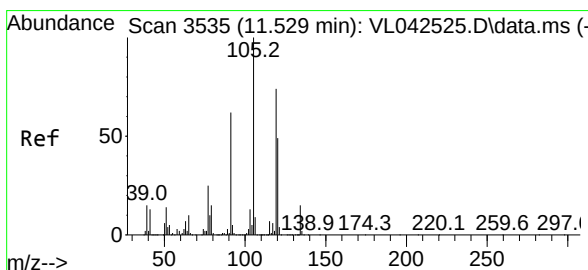
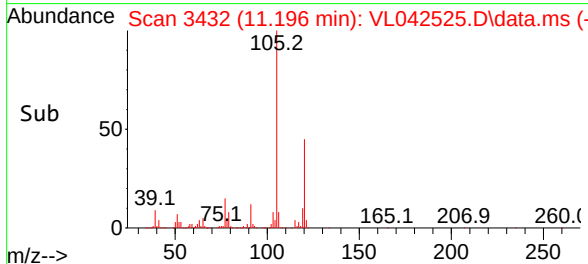
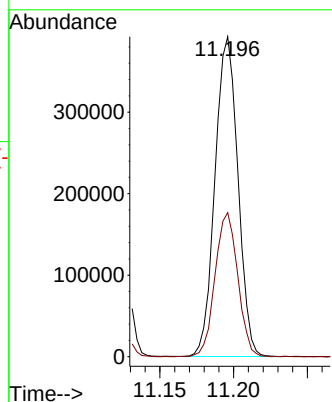
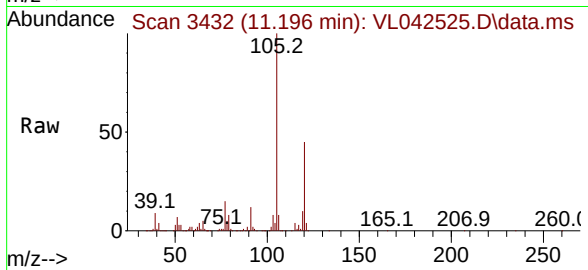
VSTDICCC010

Tgt Ion:105 Resp: 424133

Ion Ratio Lower Upper

105 100

120 45.0 36.0 54.0



#74

1,2,4-Trimethylbenzene

Concen: 10.313 ppbv

RT: 11.529 min Scan# 3535

Delta R.T. 0.000 min

Lab File: VL042525.D

Acq: 12 May 2025 08:57

Tgt Ion:105 Resp: 485862

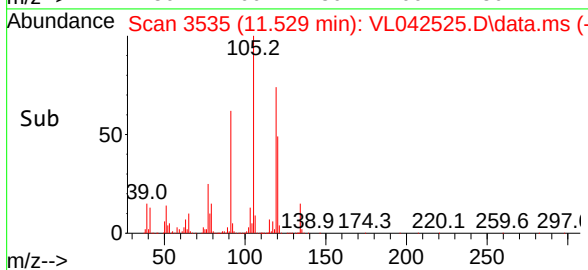
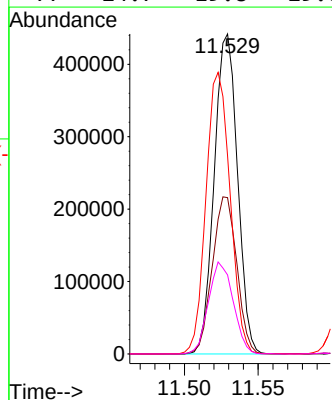
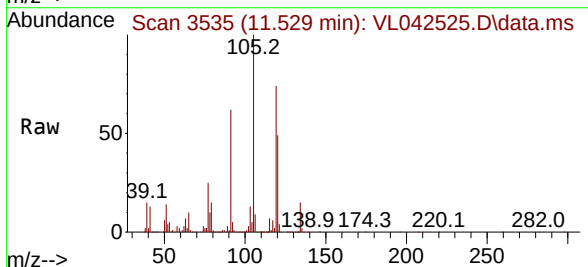
Ion Ratio Lower Upper

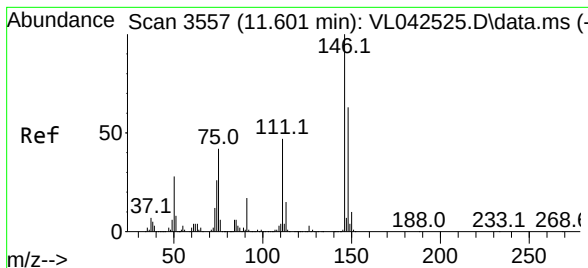
105 100

120 48.8 39.0 58.6

91 61.8 49.4 74.2

77 24.7 19.8 29.6





#75

1,3-Dichlorobenzene

Concen: 9.681 ppbv

RT: 11.601 min Scan# 3557

Delta R.T. 0.000 min

Lab File: VL042525.D

Acq: 12 May 2025 08:57

Instrument :

MSVOA_1

ClientSampleId :

VSTDICCC010

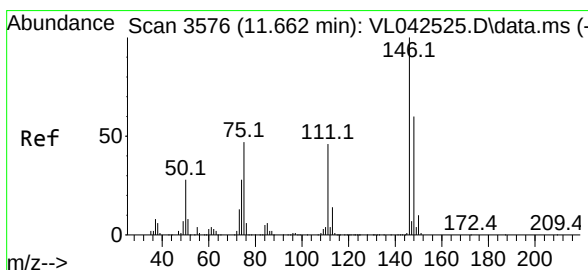
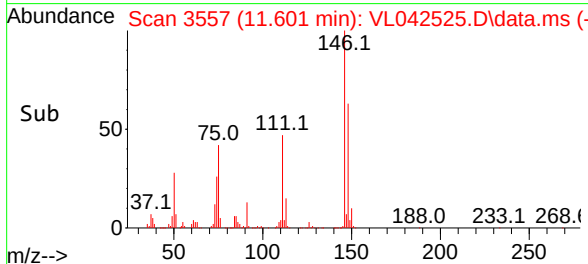
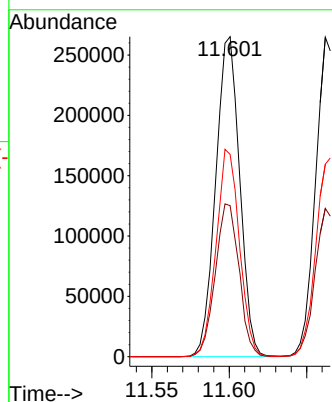
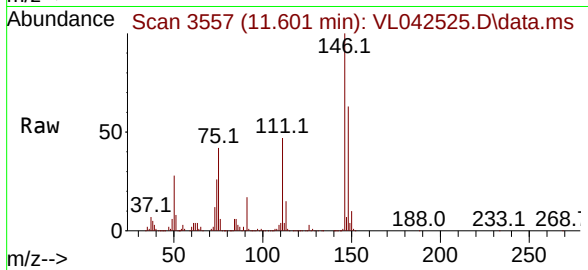
Tgt Ion:146 Resp: 285664

Ion Ratio Lower Upper

146 100

111 47.3 23.6 71.0

148 63.2 31.6 94.8



#76

1,4-Dichlorobenzene

Concen: 9.936 ppbv

RT: 11.662 min Scan# 3576

Delta R.T. 0.000 min

Lab File: VL042525.D

Acq: 12 May 2025 08:57

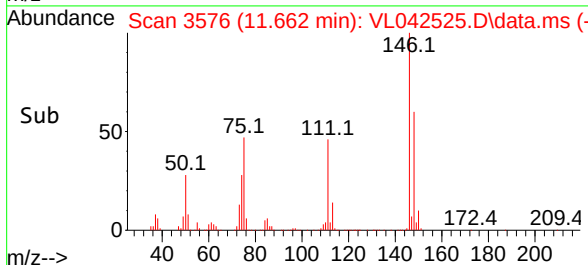
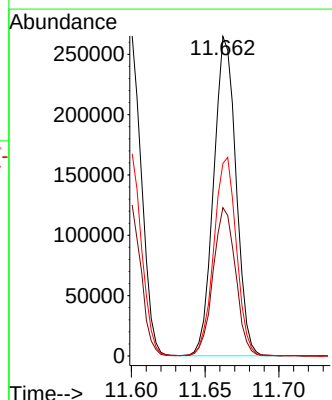
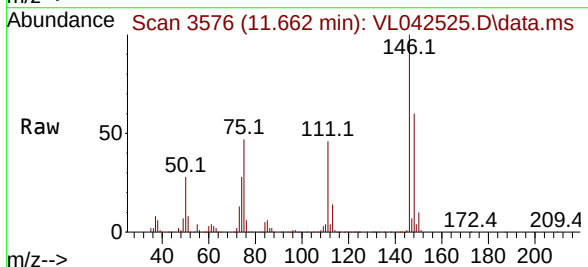
Tgt Ion:146 Resp: 278935

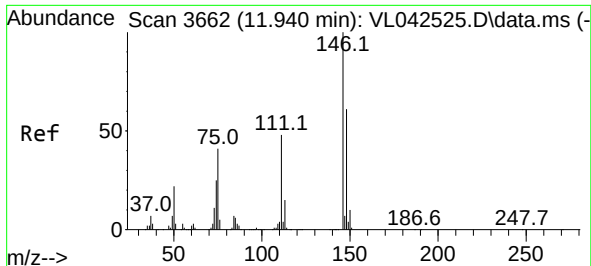
Ion Ratio Lower Upper

146 100

111 46.9 23.4 70.3

148 63.1 31.6 94.7

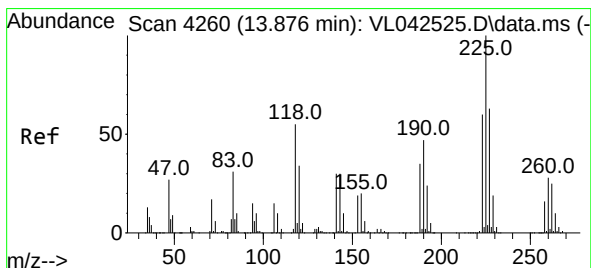
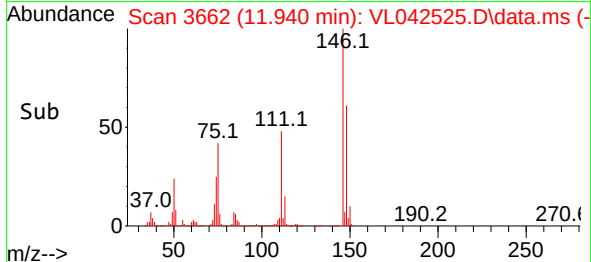
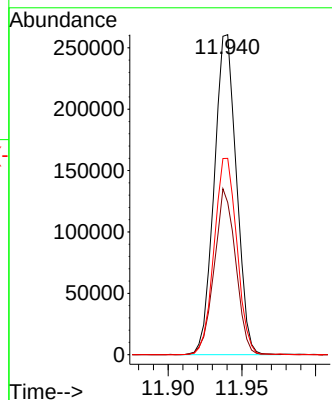
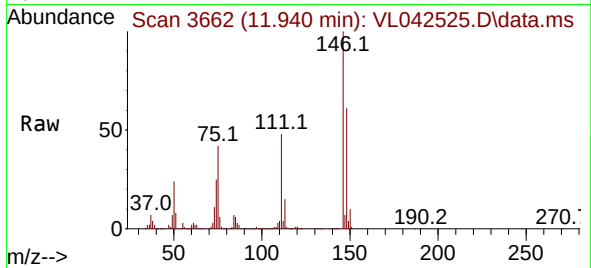




#77
1,2-Dichlorobenzene
Concen: 8.976 ppbv
RT: 11.940 min Scan# 3662
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

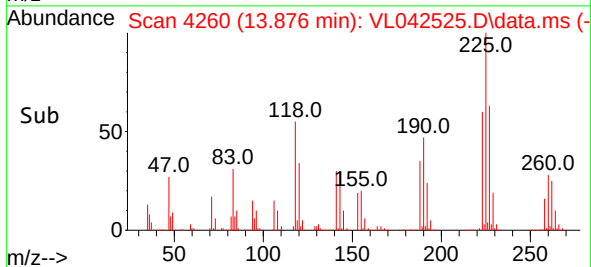
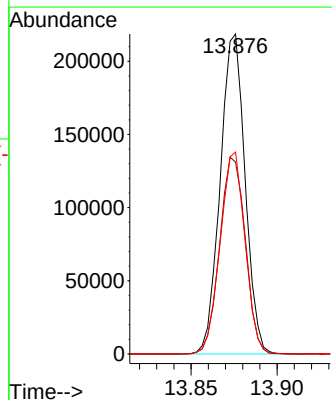
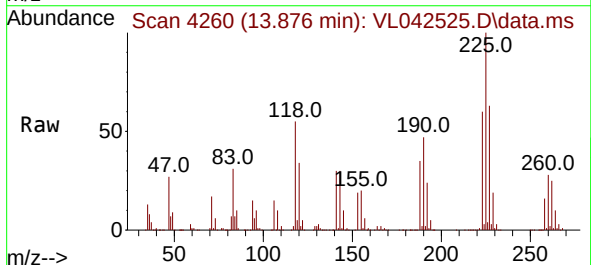
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

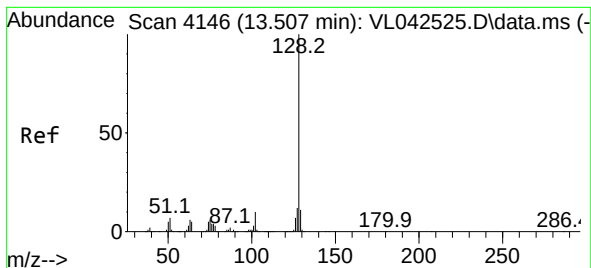
Tgt Ion:146 Resp: 273570
Ion Ratio Lower Upper
146 100
111 49.8 24.9 74.8
148 62.8 31.4 94.2



#78
Hexachloro-1,3-Butadiene
Concen: 8.408 ppbv
RT: 13.876 min Scan# 4260
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

Tgt Ion:225 Resp: 219741
Ion Ratio Lower Upper
225 100
223 63.5 50.8 76.2
227 63.1 50.5 75.7





#79

Naphthalene

Concen: 12.661 ppbv

RT: 13.507 min Scan# 4146

Delta R.T. 0.000 min

Lab File: VL042525.D

Acq: 12 May 2025 08:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

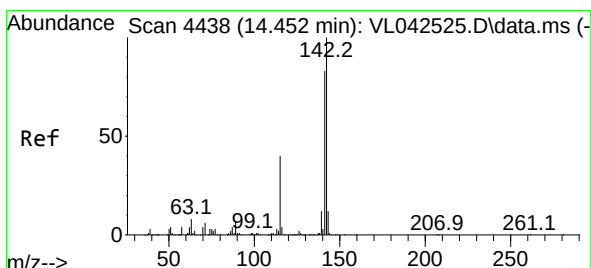
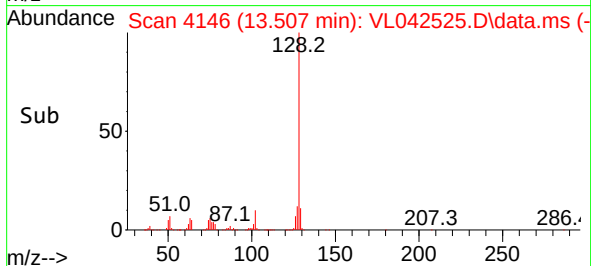
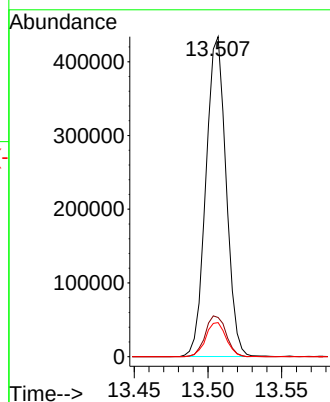
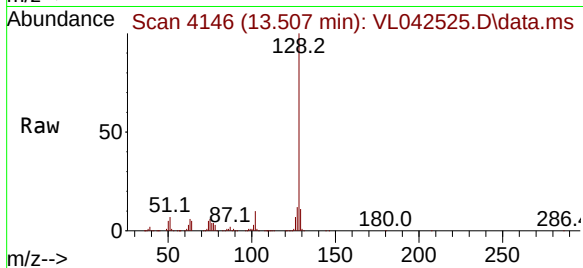
Tgt Ion:128 Resp: 411831

Ion Ratio Lower Upper

128 100

127 12.3 9.8 14.8

129 10.7 8.6 12.8



#80

Naphthalene,2-methyl-

Concen: 12.289 ppbv

RT: 14.452 min Scan# 4438

Delta R.T. 0.000 min

Lab File: VL042525.D

Acq: 12 May 2025 08:57

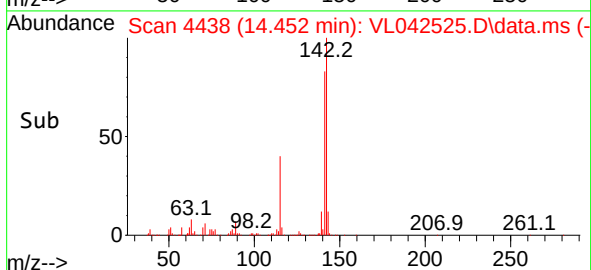
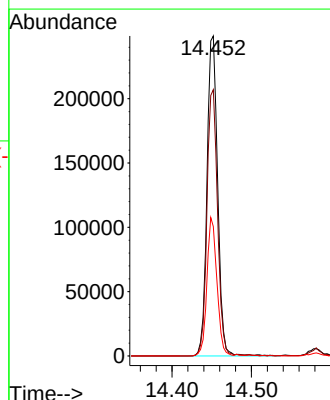
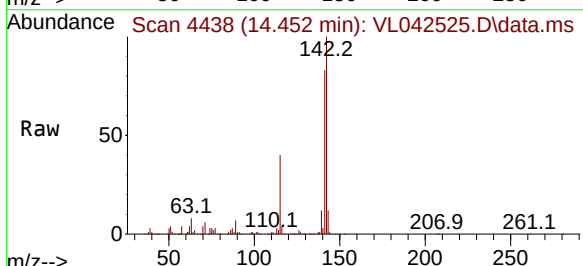
Tgt Ion:142 Resp: 232576

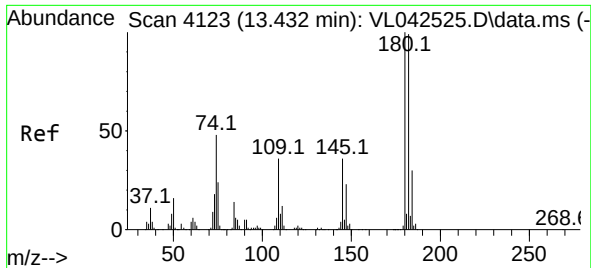
Ion Ratio Lower Upper

142 100

141 83.5 66.8 100.2

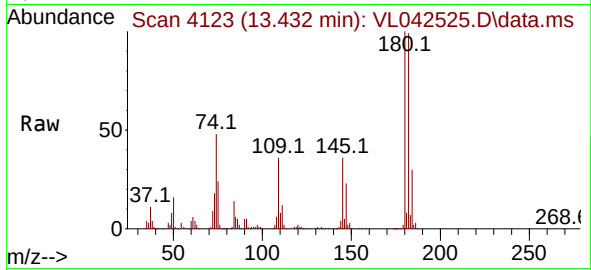
115 40.9 33.0 49.6



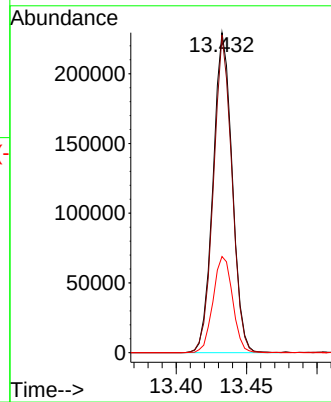
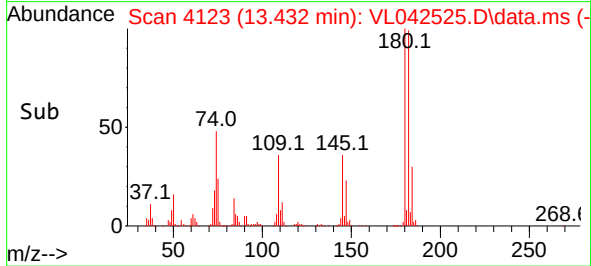


#81
 1,2,4-Trichlorobenzene
 Concen: 10.955 ppbv
 RT: 13.432 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL042525.D
 Acq: 12 May 2025 08:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



Tgt Ion:180 Resp: 217565
 Ion Ratio Lower Upper
 180 100
 182 95.9 76.6 114.8
 184 30.7 24.6 36.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051225\
 Data File : VL042527.D
 Acq On : 12 May 2025 10:07
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Quant Time: May 12 23:47:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Mon May 12 23:42:45 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.781	49	109943	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	312995	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	265845	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	231970	10.029	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.300%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.492	85	17243	0.966	ppbv	93
3) Chlorodifluoromethane	1.470	51	18021	0.990	ppbv	99
4) Chloromethane	1.528	50	7338	1.007	ppbv	89
5) Vinyl Chloride	1.576	62	6995	0.938	ppbv	100
6) Bromomethane	1.664	94	3506	0.990	ppbv	95
7) Chloroethane	1.699	64	3333	1.136	ppbv #	86
8) Dichlorotetrafluoroethane	1.551	85	15232	0.992	ppbv	94
9) Propene	1.479	41	4688	1.186	ppbv #	1
10) Heptane	4.968	43	7322	0.486	ppbv #	41
11) Trichlorofluoromethane	1.871	101	16718	0.974	ppbv	95
12) 1,1,2-Trichlorotrifluo...	2.133	101	13472	0.977	ppbv	100
13) Ethanol	1.719	45	1315	1.219	ppbv	66
14) Bromoethene	1.777	108	5081	1.010	ppbv #	98
15) Acetone	1.832	43	18790	1.070	ppbv	95
16) 1,3-Butadiene	1.606	39	7620	0.965	ppbv	100
17) tert-Butyl alcohol	2.039	59	16785	1.034	ppbv	95
18) 1,1-Dichloroethene	2.030	96	5957	0.985	ppbv	89
19) Isopropyl Alcohol	1.884	45	9238	0.968	ppbv #	95
20) Methylene Chloride	2.055	84	6343	1.037	ppbv	95
21) Allyl Chloride	2.091	41	12028	1.034	ppbv	100
22) trans-1,2-Dichloroethene	2.334	96	7150	1.011	ppbv	95
23) Vinyl Acetate	2.457	43	16789	0.913	ppbv #	90
24) 1,1-Dichloroethane	2.402	63	13728	1.003	ppbv	97
25) Ethyl Acetate	2.832	43	28045	0.909	ppbv	98
26) Hexane	2.819	57	11972	0.945	ppbv	95
27) Carbon Disulfide	2.146	76	16011	0.979	ppbv #	1
28) Methyl tert-Butyl Ether	2.437	73	6789	0.965	ppbv	93
29) Chloroform	2.842	83	26959	1.026	ppbv	87
30) Cyclohexane	3.845	84	5478	0.527	ppbv #	30
31) cis-1,2-Dichloroethene	2.716	61	13267	0.928	ppbv	90
32) 1,1,1-Trichloroethane	3.360	97	25297	0.955	ppbv	96
34) 2-Butanone	2.554	43	20174	0.978	ppbv	100
35) Carbon Tetrachloride	3.755	117	27182	0.966	ppbv	96
36) Benzene	3.648	78	26465	0.954	ppbv	95
37) 1,2-Dichloroethane	3.208	62	20039	1.013	ppbv	98
38) Trichloroethene	4.541	130	4359	0.368	ppbv	92
39) 1,2-Dichloropropane	4.308	63	9362	0.907	ppbv	86
40) 1,4-Dioxane	4.583	88	1896	0.461	ppbv #	22
41) Tetrahydrofuran	3.056	42	7944	0.893	ppbv	97
42) Bromodichloromethane	4.480	83	23829	0.904	ppbv #	87
43) Methyl Methacrylate	4.865	69	3789	0.409	ppbv #	1
44) 2,2,4-Trimethylpentane	4.632	57	40206	0.923	ppbv	96
45) t-1,3-Dichloropropene	6.399	75	2734	0.231	ppbv	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051225\
 Data File : VL042527.D
 Acq On : 12 May 2025 10:07
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

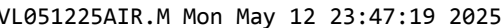
Instrument :
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 ClientSampleId :
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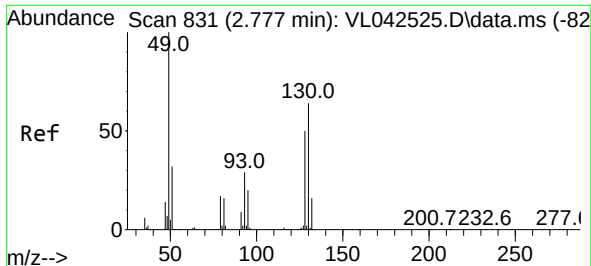
Quant Time: May 12 23:47:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Mon May 12 23:42:45 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.580	75	6387	0.448	ppbv	92
47) 1,1,2-Trichloroethane	6.571	97	7429	0.611	ppbv	95
48) Dibromochloromethane	7.377	129	19761	0.973	ppbv	97
49) Bromoform	9.474	173	15745	0.944	ppbv	98
50) 4-Methyl-2-Pentanone	5.752	43	11198	0.463	ppbv #	48
51) 2-Hexanone	7.428	43	5497	0.306	ppbv #	31
52) Tetrachloroethene	8.218	164	8047	0.753	ppbv #	78
53) Toluene	6.923	91	13979	0.514	ppbv #	51
54) 1,2-Dibromoethane	7.642	107	12101	0.681	ppbv	82
56) 1,1,1,2-Tetrachloroethane	8.914	131	16650	1.010	ppbv #	1
57) Chlorobenzene	8.914	112	25980	0.973	ppbv	94
58) Ethyl Benzene	9.348	91	19764	0.545	ppbv	94
59) m/p-Xylene	9.542	91	33567	1.041	ppbv #	100
60) o-Xylene	9.956	91	26834	0.854	ppbv	95
61) Styrene	9.862	104	9259	0.800	ppbv	97
62) Isopropylbenzene	10.532	105	41504	0.877	ppbv	95
63) 1,1,2,2-Tetrachloroethane	9.956	83	23419	0.930	ppbv	99
64) n-propylbenzene	10.985	120	10433	0.870	ppbv	93
65) tert-Butylbenzene	11.526	119	38176	0.878	ppbv	96
66) Benzyl Chloride	11.607	91	4826	0.839	ppbv #	93
67) sec-Butylbenzene	11.762	105	56638	0.909	ppbv	97
69) p-Isopropyltoluene	11.921	119	44406	0.867	ppbv	96
70) n-Butylbenzene	12.277	91	41878	0.827	ppbv	97
71) 2-Chlorotoluene	10.898	91	30070	0.839	ppbv	98
72) 4-Ethyltoluene	11.121	105	33030	0.847	ppbv #	97
73) 1,3,5-Trimethylbenzene	11.199	105	29442	0.867	ppbv	100
74) 1,2,4-Trimethylbenzene	11.532	105	40544	0.970	ppbv	91
75) 1,3-Dichlorobenzene	11.600	146	26018	0.994	ppbv	97
76) 1,4-Dichlorobenzene	11.665	146	23564	0.947	ppbv	98
77) 1,2-Dichlorobenzene	11.940	146	26975	0.998	ppbv	98
78) Hexachloro-1,3-Butadiene	13.879	225	23824	1.028	ppbv	98
79) Naphthalene	13.510	128	24409	0.846	ppbv #	95
80) Naphthalene,2-methyl-	14.455	142	9088	0.541	ppbv	97
81) 1,2,4-Trichlorobenzene	13.436	180	14600	0.829	ppbv	96

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

Quant Time: May 12 23:47:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Mon May 12 23:42:45 2025
Response via : Initial Calibration

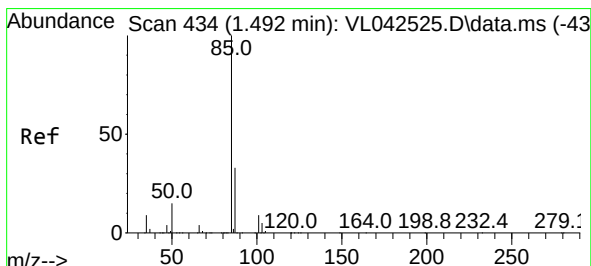
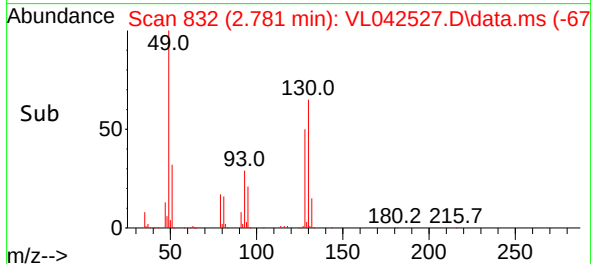
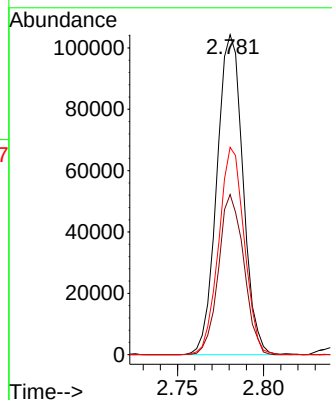
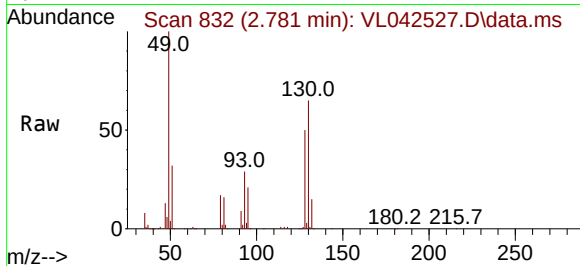




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

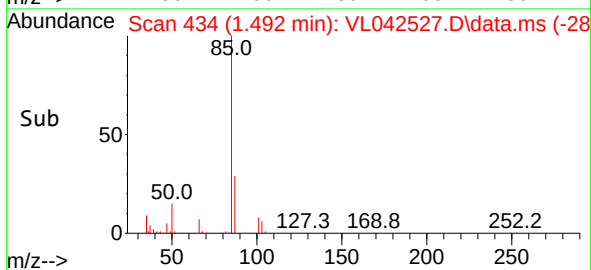
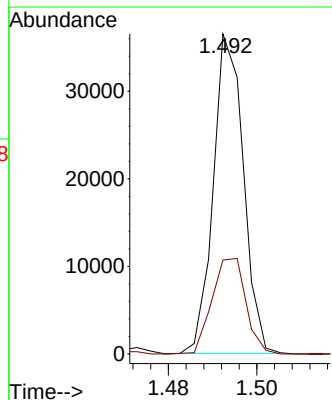
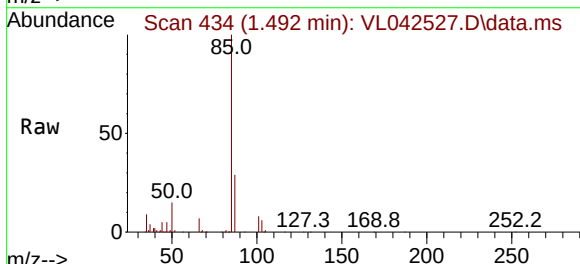
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

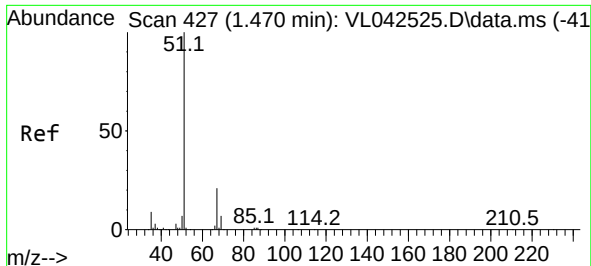
Tgt Ion: 49 Resp: 109943
Ion Ratio Lower Upper
49 100
128 48.5 24.9 74.6
130 63.6 32.5 97.5



#2
Dichlorodifluoromethane
Concen: 0.966 ppbv
RT: 1.492 min Scan# 434
Delta R.T. -0.000 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

Tgt Ion: 85 Resp: 17243
Ion Ratio Lower Upper
85 100
87 29.4 26.8 40.2

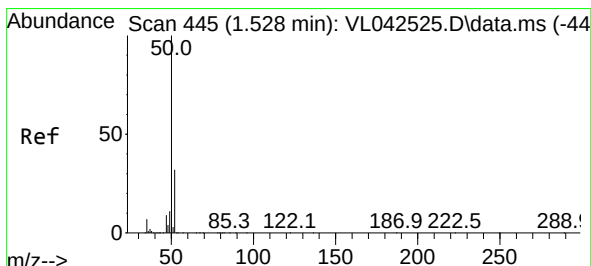
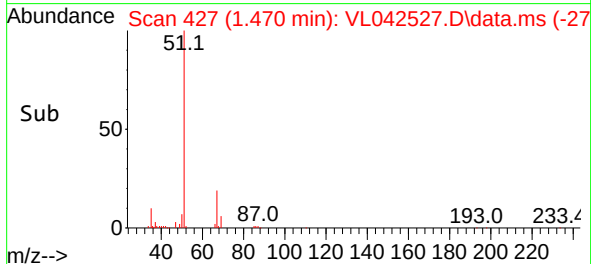
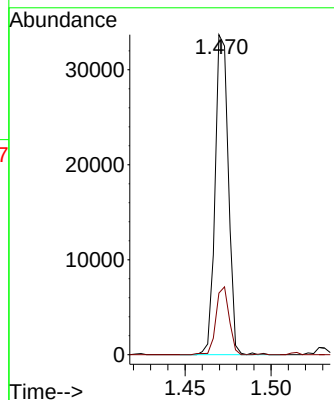
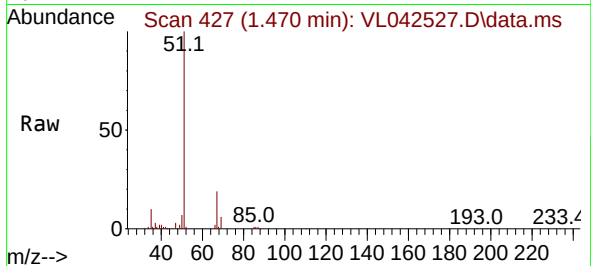




#3
Chlorodifluoromethane
Concen: 0.990 ppbv
RT: 1.470 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

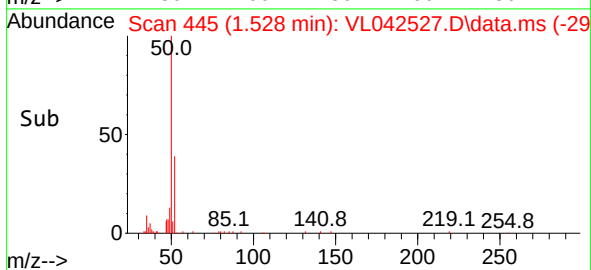
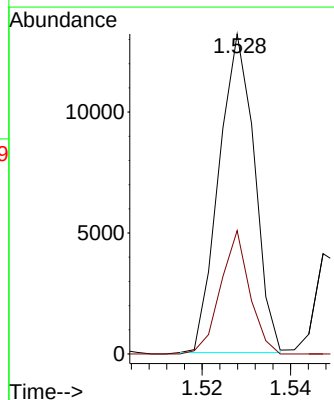
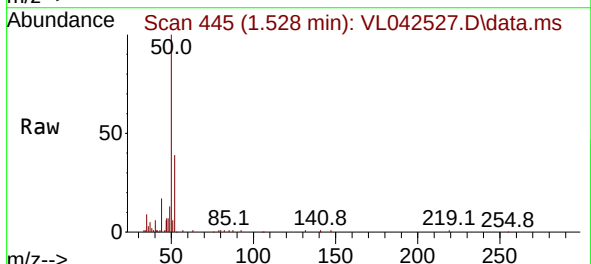
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

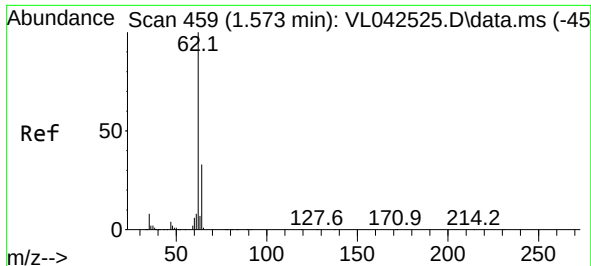
Tgt Ion: 51 Resp: 18021
Ion Ratio Lower Upper
51 100
67 21.2 17.4 26.0



#4
Chloromethane
Concen: 1.007 ppbv
RT: 1.528 min Scan# 445
Delta R.T. -0.000 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

Tgt Ion: 50 Resp: 7338
Ion Ratio Lower Upper
50 100
52 38.7 25.9 38.9

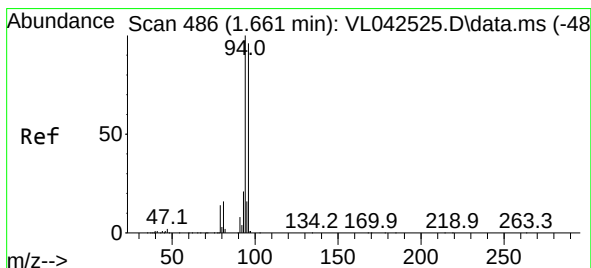
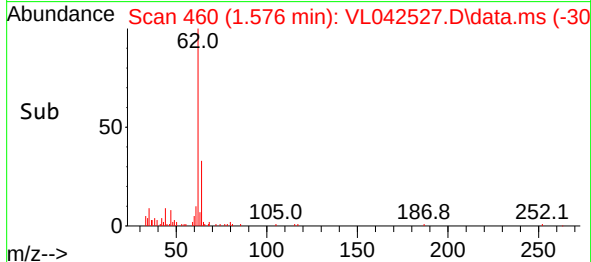
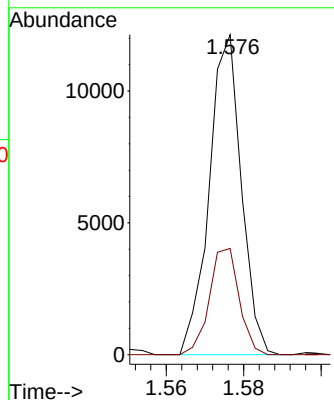
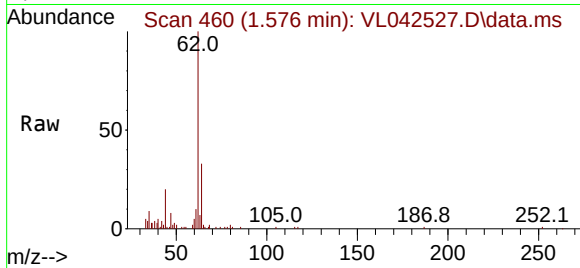




#5
 Vinyl Chloride
 Concen: 0.938 ppbv
 RT: 1.576 min Scan# 459
 Delta R.T. 0.003 min
 Lab File: VL042527.D
 Acq: 12 May 2025 10:07

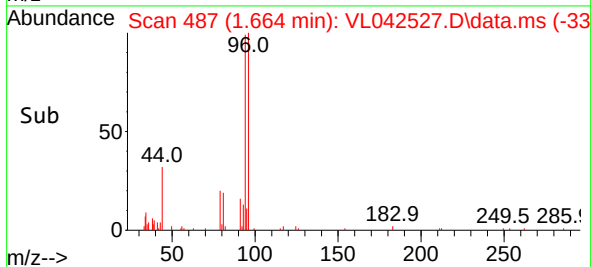
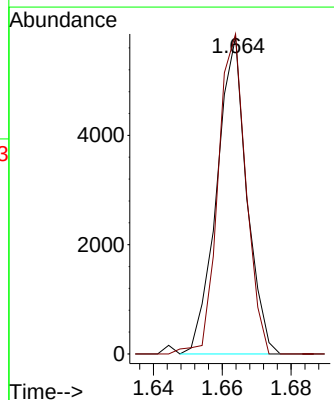
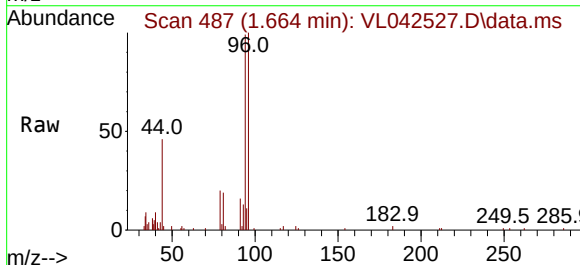
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

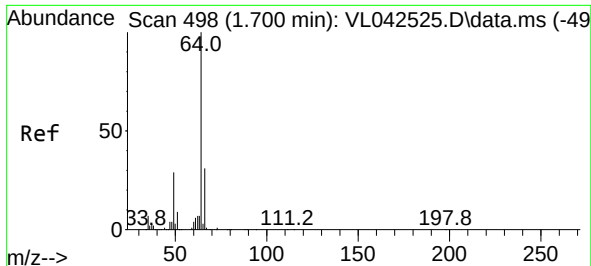
Tgt Ion: 62 Resp: 6995
 Ion Ratio Lower Upper
 62 100
 64 33.2 26.5 39.7



#6
 Bromomethane
 Concen: 0.990 ppbv
 RT: 1.664 min Scan# 487
 Delta R.T. 0.003 min
 Lab File: VL042527.D
 Acq: 12 May 2025 10:07

Tgt Ion: 94 Resp: 3506
 Ion Ratio Lower Upper
 94 100
 96 100.9 76.9 115.3

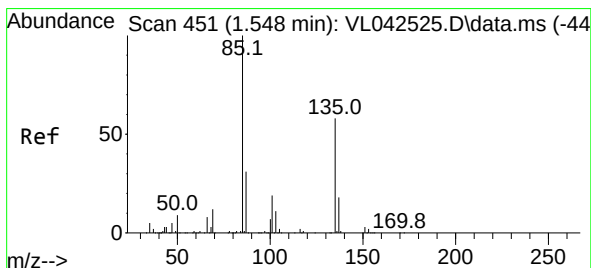
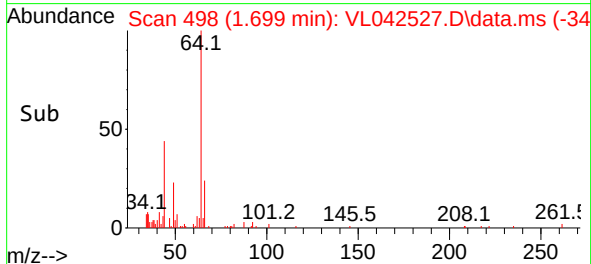
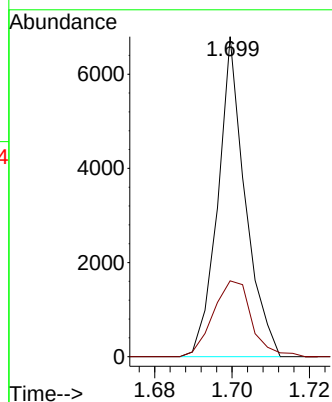
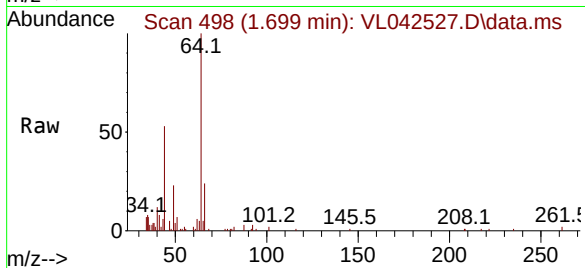




#7
Chloroethane
Concen: 1.136 ppbv
RT: 1.699 min Scan# 498
Delta R.T. -0.000 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

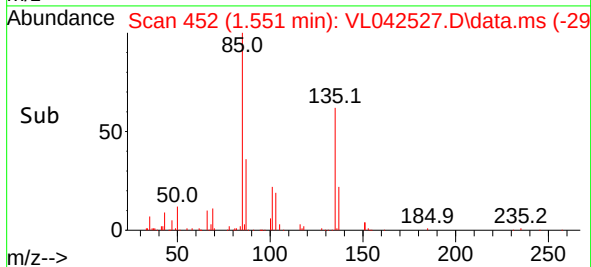
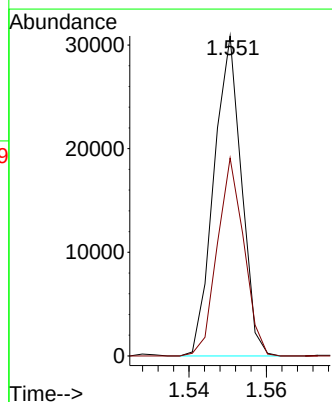
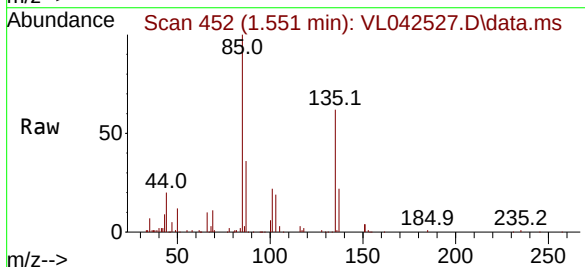
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

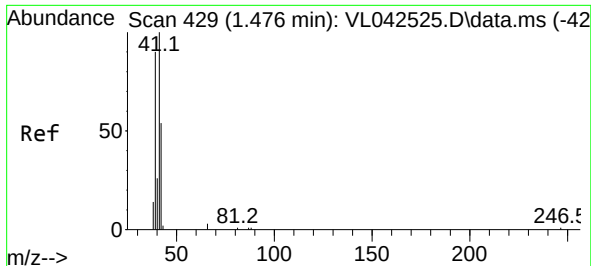
Tgt Ion: 64 Resp: 3333
Ion Ratio Lower Upper
64 100
66 23.7 25.1 37.7#



#8
Dichlorotetrafluoroethane
Concen: 0.992 ppbv
RT: 1.551 min Scan# 452
Delta R.T. 0.003 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

Tgt Ion: 85 Resp: 15232
Ion Ratio Lower Upper
85 100
135 60.0 51.8 77.8





#9

Propene

Concen: 1.186 ppbv

RT: 1.479 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042527.D

Acq: 12 May 2025 10:07

Instrument :

MSVOA_L

ClientSampleId :

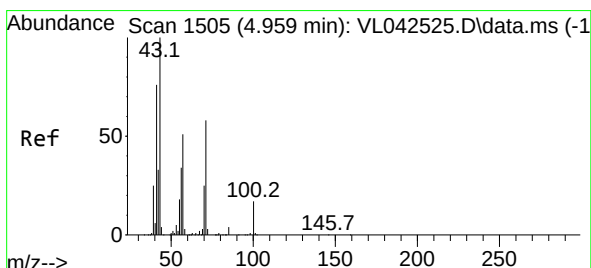
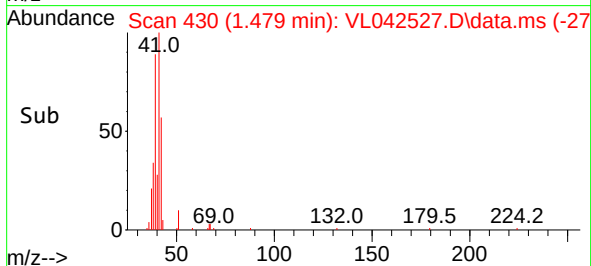
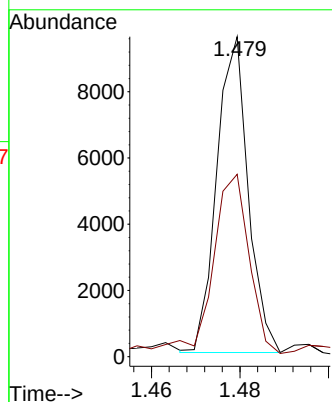
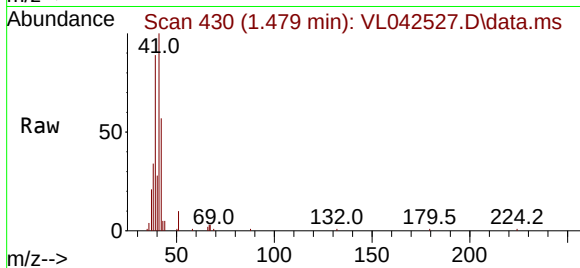
VSTDIC001

Tgt Ion: 41 Resp: 4688

Ion Ratio Lower Upper

41 100

42 78.8 4.1 6.1#



#10

Heptane

Concen: 0.486 ppbv

RT: 4.968 min Scan# 1508

Delta R.T. 0.010 min

Lab File: VL042527.D

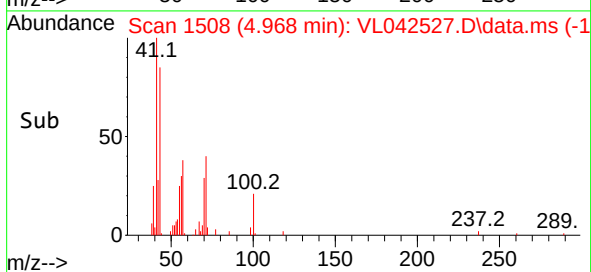
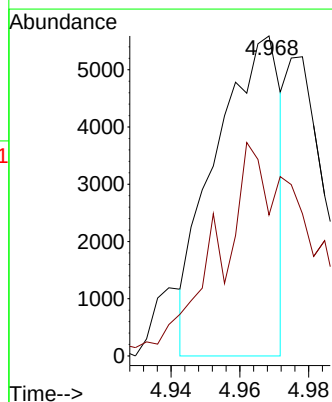
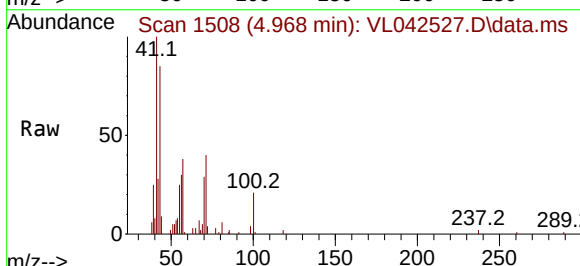
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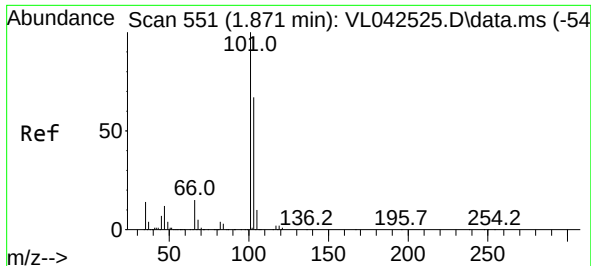
Tgt Ion: 43 Resp: 7322

Ion Ratio Lower Upper

43 100

57 94.1 42.1 63.1#

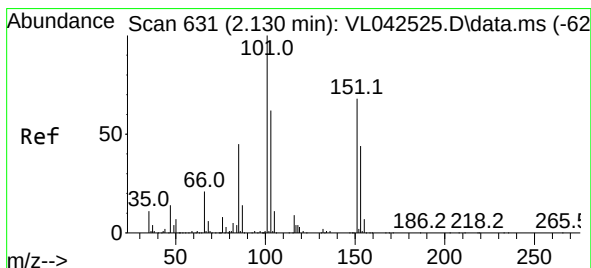
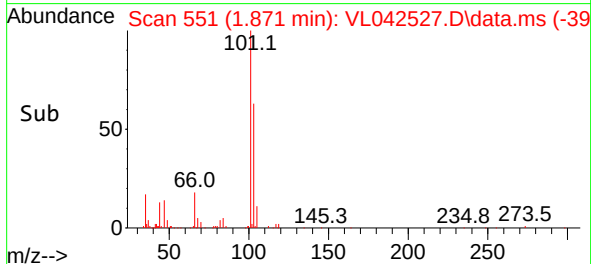
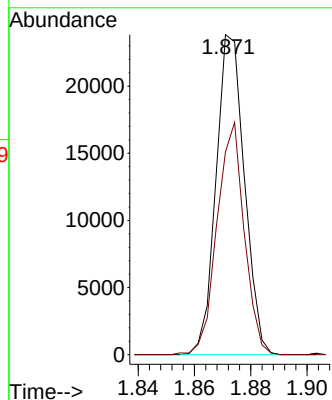
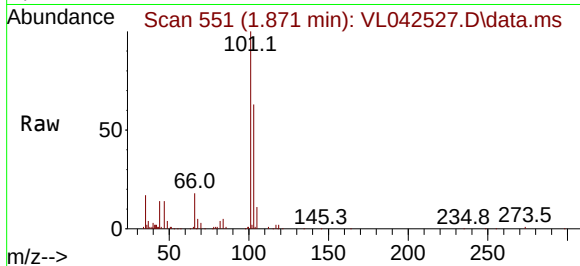




#11
 Trichlorofluoromethane
 Concen: 0.974 ppbv
 RT: 1.871 min Scan# 511
 Delta R.T. -0.000 min
 Lab File: VL042527.D
 Acq: 12 May 2025 10:07

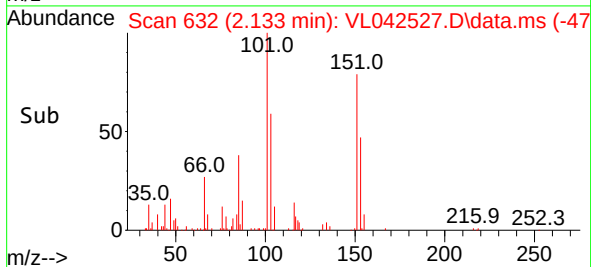
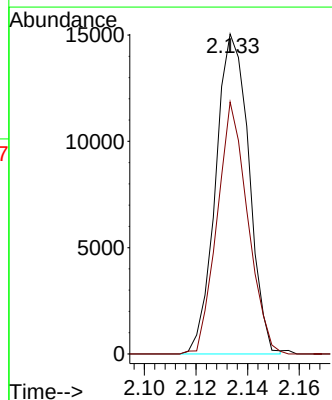
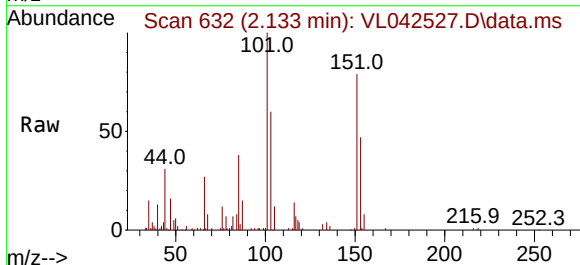
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

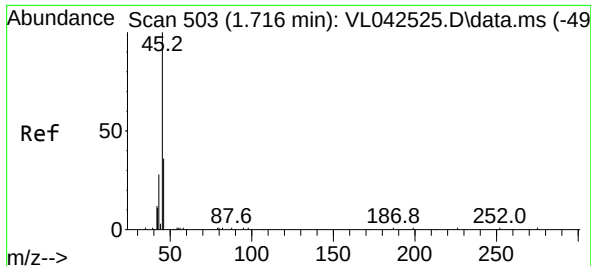
Tgt Ion:101 Resp: 16718
 Ion Ratio Lower Upper
 101 100
 103 63.4 53.8 80.6



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.977 ppbv
 RT: 2.133 min Scan# 632
 Delta R.T. 0.003 min
 Lab File: VL042527.D
 Acq: 12 May 2025 10:07

Tgt Ion:101 Resp: 13472
 Ion Ratio Lower Upper
 101 100
 151 72.4 57.8 86.8

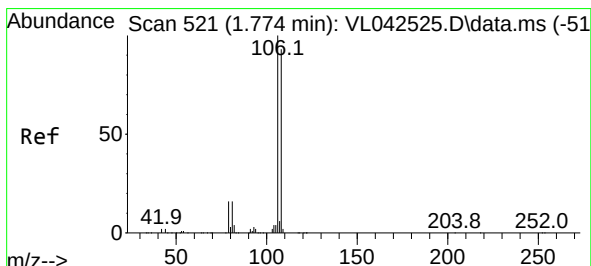
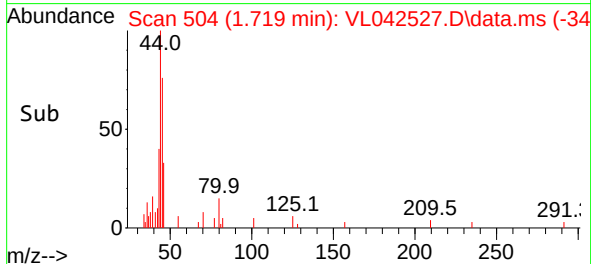
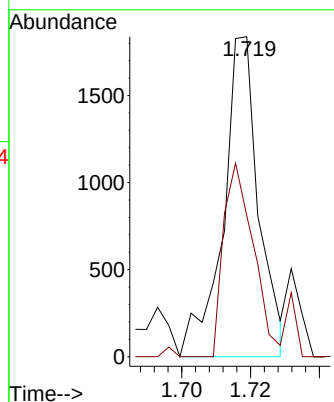
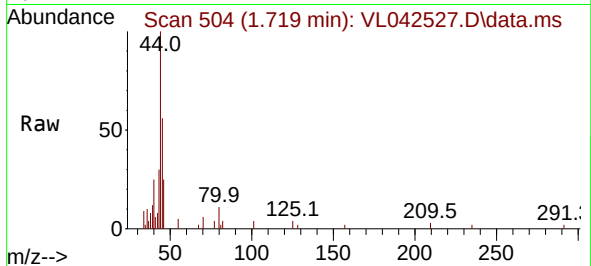




#13
 Ethanol
 Concen: 1.219 ppbv
 RT: 1.719 min Scan# 503
 Delta R.T. 0.003 min
 Lab File: VL042527.D
 Acq: 12 May 2025 10:07

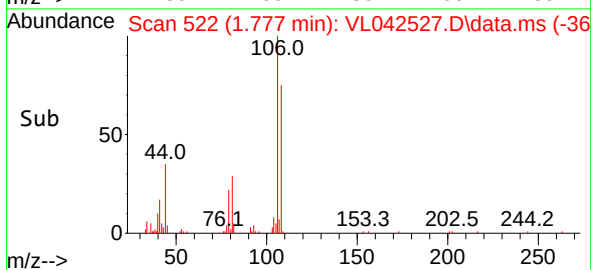
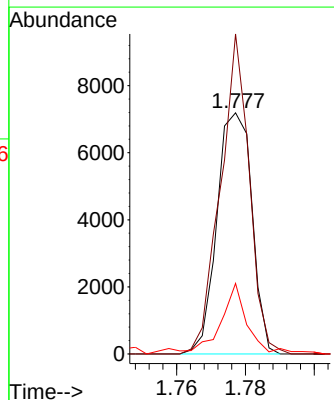
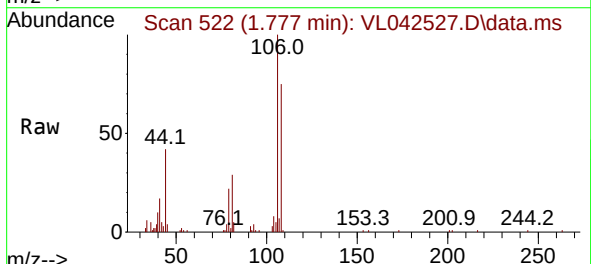
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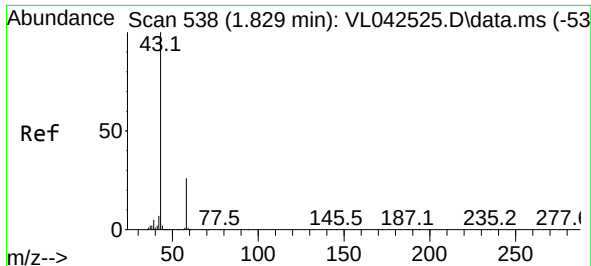
Tgt Ion: 45 Resp: 1315
 Ion Ratio Lower Upper
 45 100
 46 57.5 14.8 59.4



#14
 Bromoethene
 Concen: 1.010 ppbv
 RT: 1.777 min Scan# 522
 Delta R.T. 0.003 min
 Lab File: VL042527.D
 Acq: 12 May 2025 10:07

Tgt Ion: 108 Resp: 5081
 Ion Ratio Lower Upper
 108 100
 106 109.3 87.4 131.2
 79 25.5 15.1 22.7#

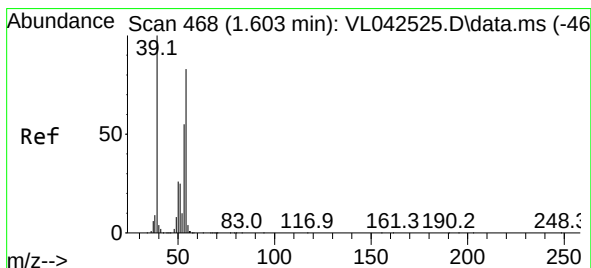
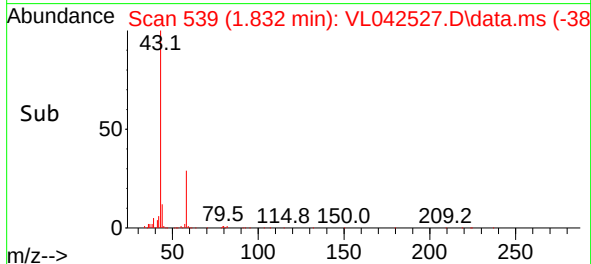
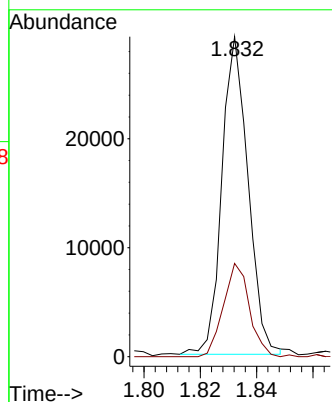
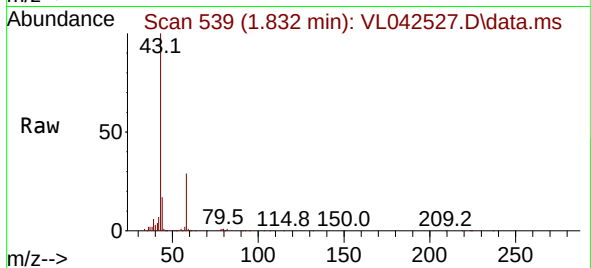




#15
Acetone
Concen: 1.070 ppbv
RT: 1.832 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

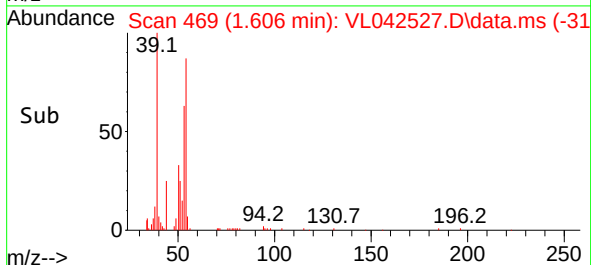
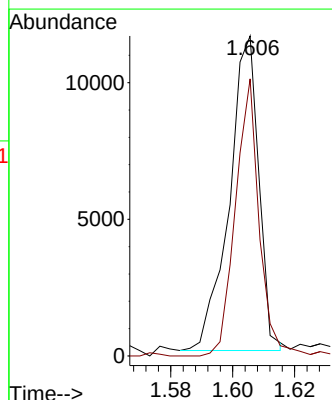
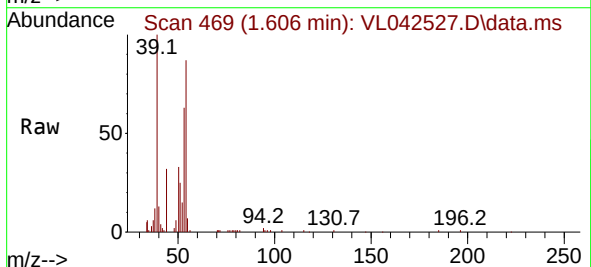
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

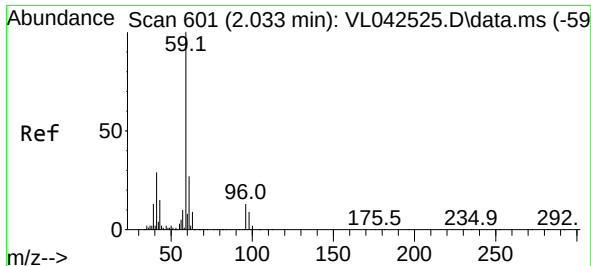
Tgt Ion: 43 Resp: 18790
Ion Ratio Lower Upper
43 100
58 29.3 21.3 31.9



#16
1,3-Butadiene
Concen: 0.965 ppbv
RT: 1.606 min Scan# 469
Delta R.T. 0.003 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

Tgt Ion: 39 Resp: 7620
Ion Ratio Lower Upper
39 100
54 72.2 57.8 86.6





#17

tert-Butyl alcohol

Concen: 1.034 ppbv

RT: 2.039 min Scan# 601

Delta R.T. 0.006 min

Lab File: VL042527.D

Acq: 12 May 2025 10:07

Instrument :

MSVOA_1

ClientSampleId :

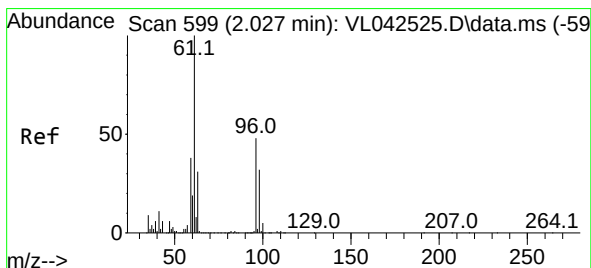
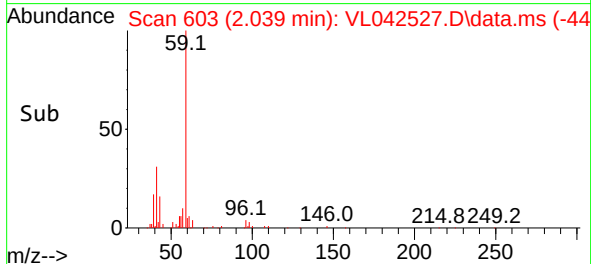
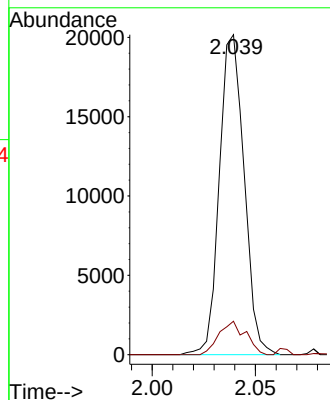
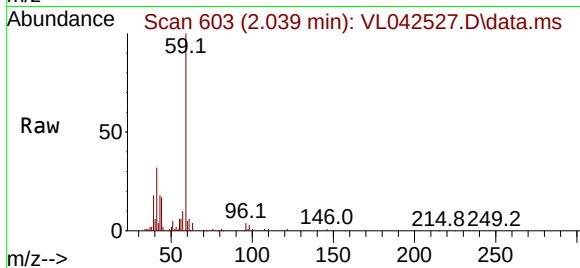
VSTDIC001

Tgt Ion: 59 Resp: 16785

Ion Ratio Lower Upper

59 100

57 12.1 8.2 12.4



#18

1,1-Dichloroethene

Concen: 0.985 ppbv

RT: 2.030 min Scan# 600

Delta R.T. 0.003 min

Lab File: VL042527.D

Acq: 12 May 2025 10:07

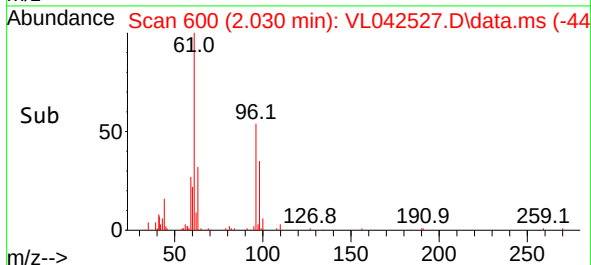
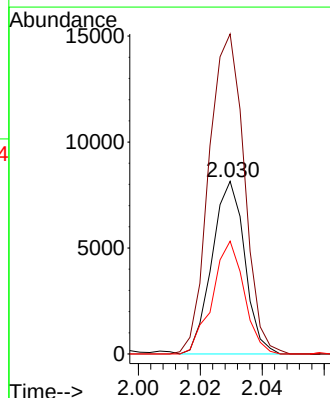
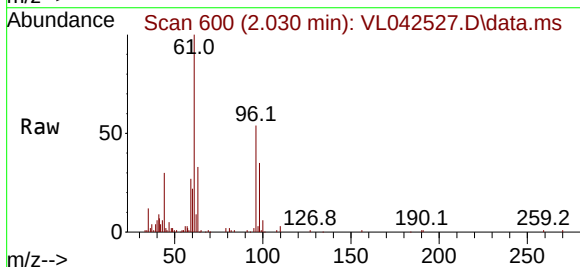
Tgt Ion: 96 Resp: 5957

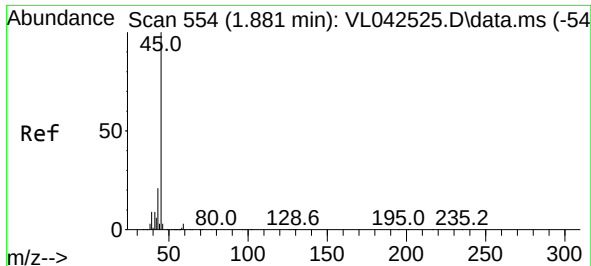
Ion Ratio Lower Upper

96 100

61 184.1 165.0 247.4

98 65.3 52.6 79.0

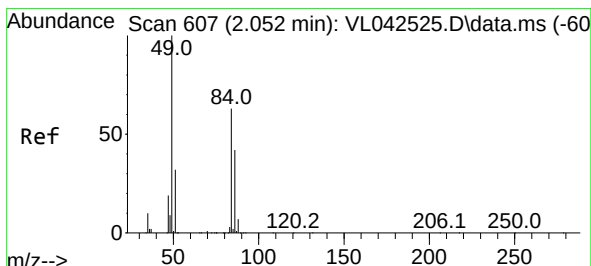
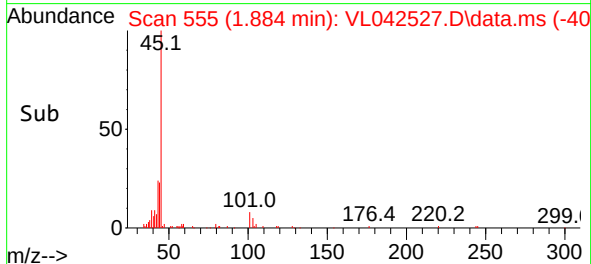
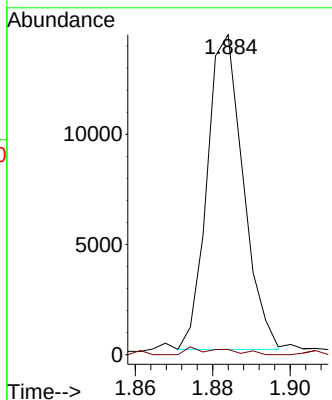
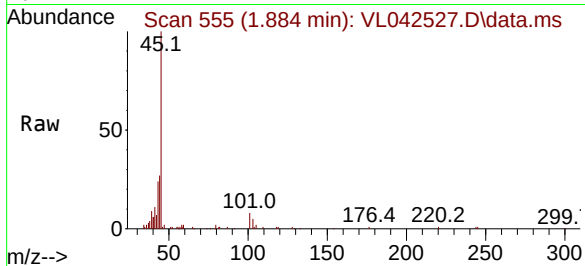




#19
Isopropyl Alcohol
Concen: 0.968 ppbv
RT: 1.884 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

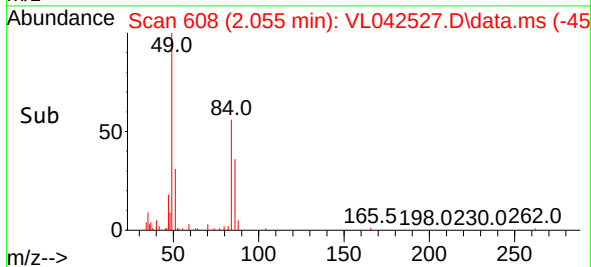
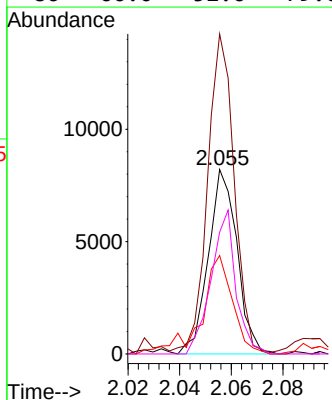
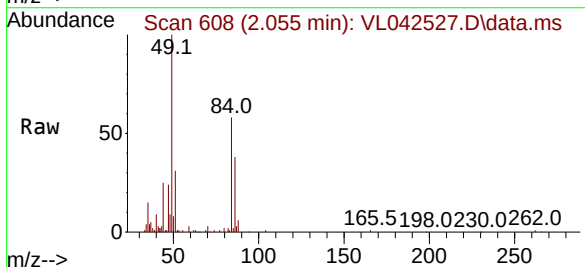
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

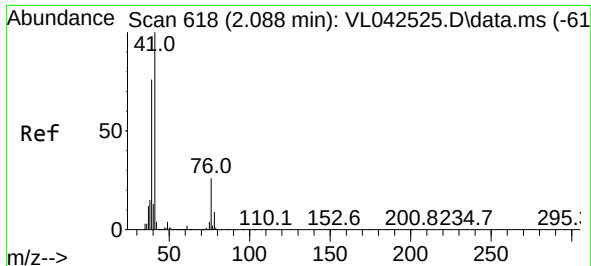
Tgt Ion: 45 Resp: 9238
Ion Ratio Lower Upper
45 100
58 0.0 1.5 2.3#



#20
Methylene Chloride
Concen: 1.037 ppbv
RT: 2.055 min Scan# 608
Delta R.T. 0.003 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

Tgt Ion: 84 Resp: 6343
Ion Ratio Lower Upper
84 100
49 171.7 128.2 192.4
51 52.3 41.7 62.5
86 66.0 52.6 79.0





#21

Allyl Chloride

Concen: 1.034 ppbv

RT: 2.091 min Scan# 618

Delta R.T. 0.003 min

Lab File: VL042527.D

Acq: 12 May 2025 10:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

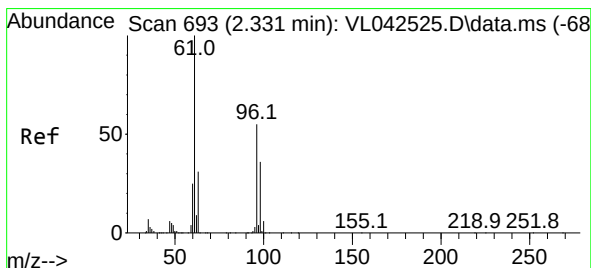
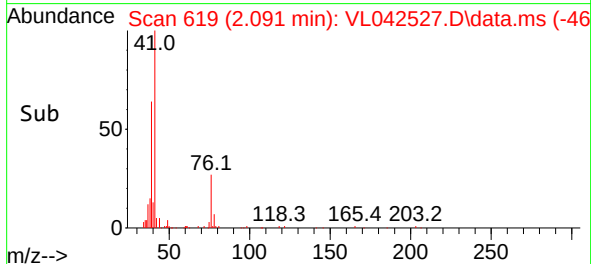
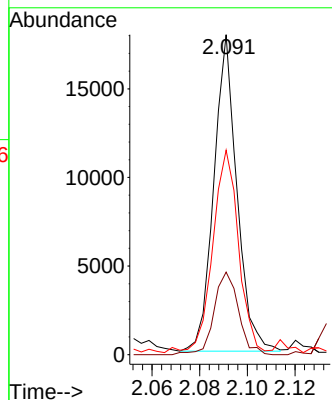
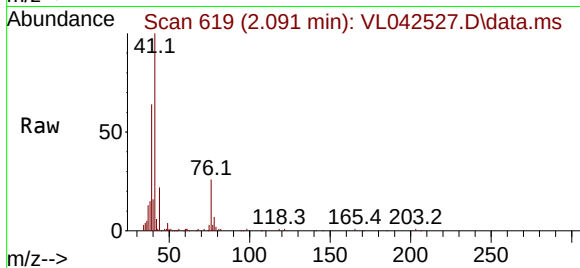
Tgt Ion: 41 Resp: 12028

Ion Ratio Lower Upper

41 100

76 27.5 22.0 33.0

39 74.6 59.5 89.3



#22

trans-1,2-Dichloroethene

Concen: 1.011 ppbv

RT: 2.334 min Scan# 694

Delta R.T. 0.003 min

Lab File: VL042527.D

Acq: 12 May 2025 10:07

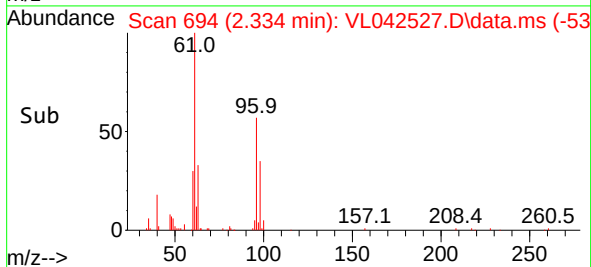
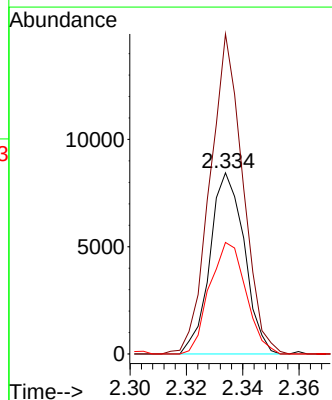
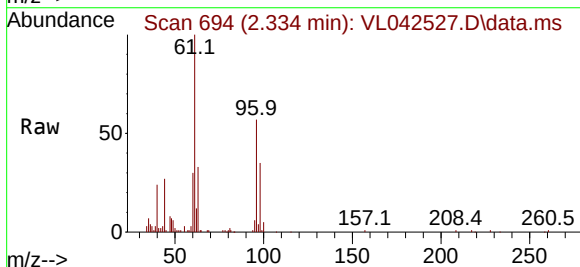
Tgt Ion: 96 Resp: 7150

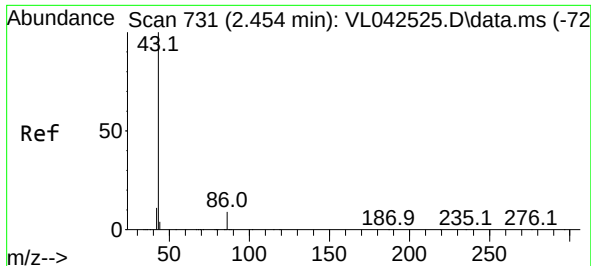
Ion Ratio Lower Upper

96 100

61 175.3 145.9 218.9

98 61.6 52.2 78.4

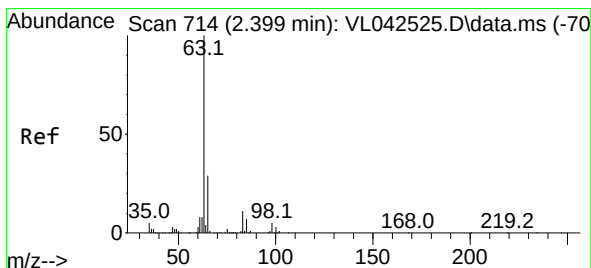
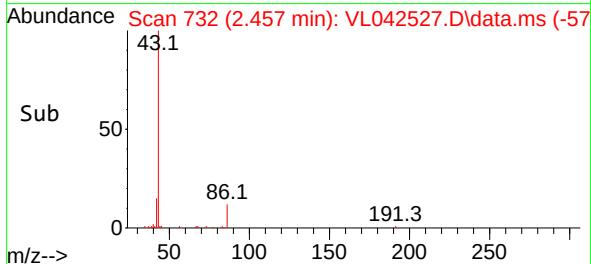
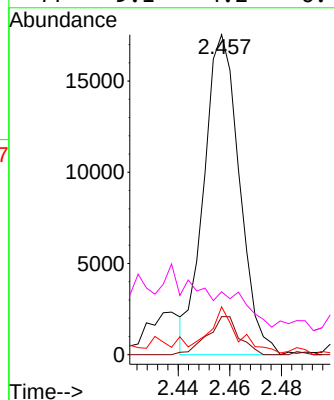
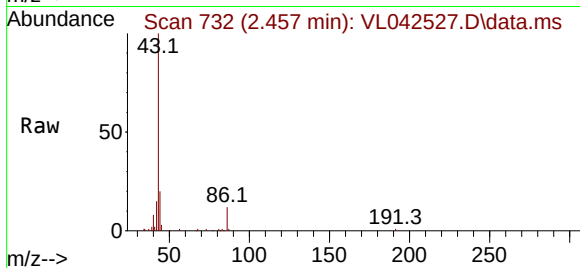




#23
 Vinyl Acetate
 Concen: 0.913 ppbv
 RT: 2.457 min Scan# 715
 Delta R.T. 0.003 min
 Lab File: VL042527.D
 Acq: 12 May 2025 10:07

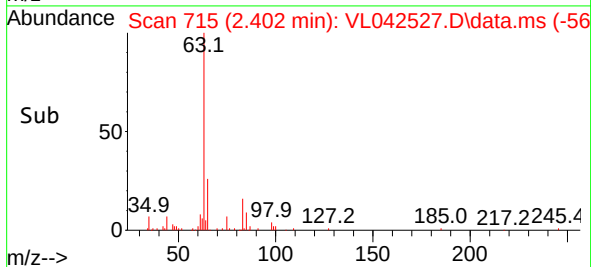
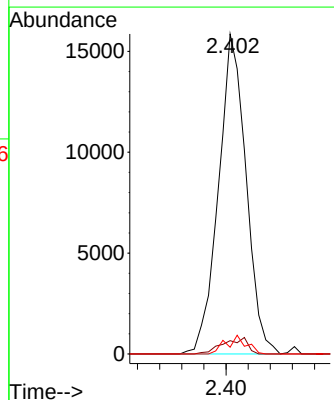
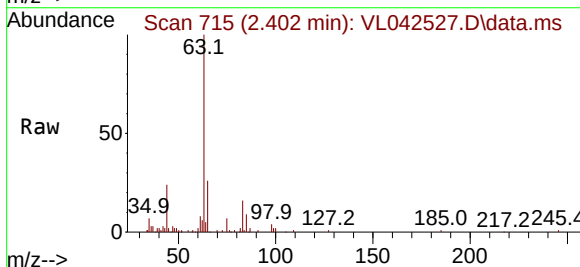
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

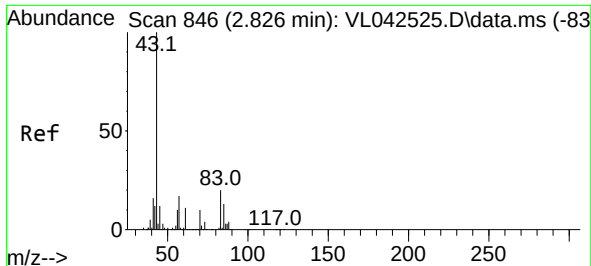
Tgt Ion:	43	Resp:	16789
Ion	Ratio	Lower	Upper
43	100		
86	11.9	6.8	10.2#
42	14.4	8.8	13.2#
44	9.1	4.2	6.4#



#24
 1,1-Dichloroethane
 Concen: 1.003 ppbv
 RT: 2.402 min Scan# 715
 Delta R.T. 0.003 min
 Lab File: VL042527.D
 Acq: 12 May 2025 10:07

Tgt Ion:	63	Resp:	13728
Ion	Ratio	Lower	Upper
63	100		
98	4.2	2.6	8.0
100	2.1	1.4	4.2

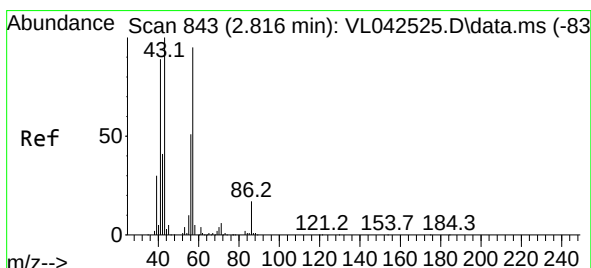
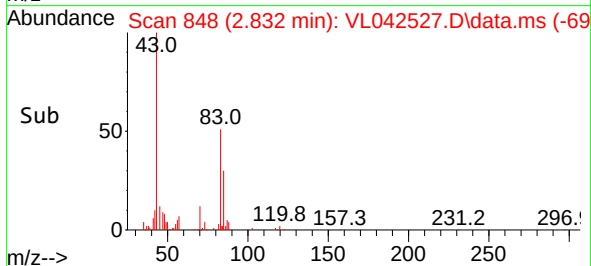
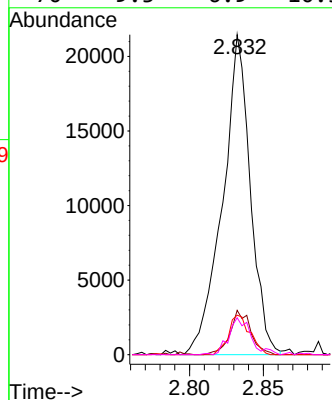
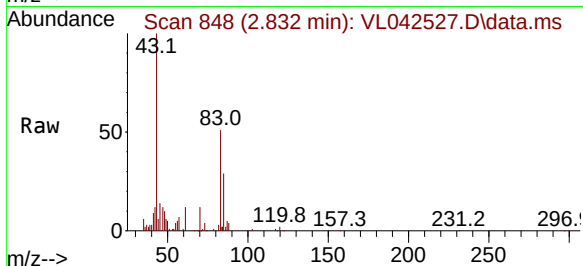




#25
Ethyl Acetate
Concen: 0.909 ppbv
RT: 2.832 min Scan# 846
Delta R.T. 0.006 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

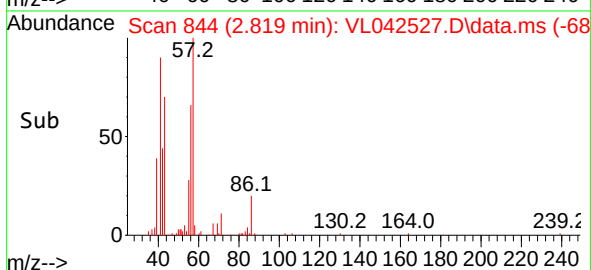
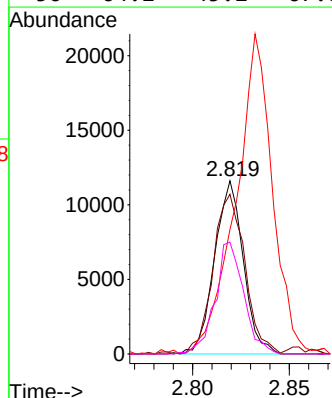
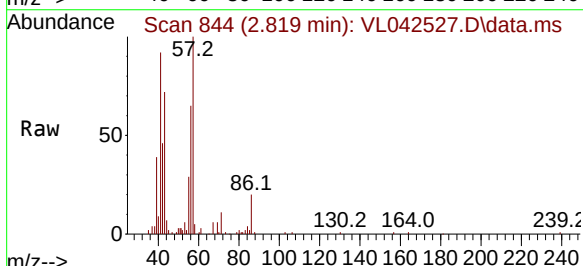
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

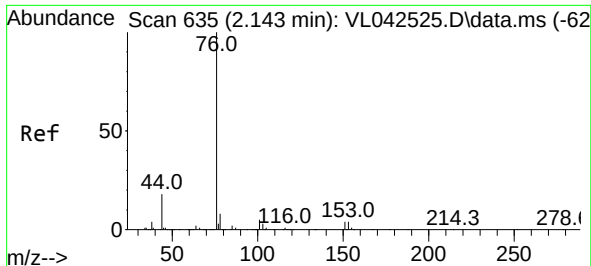
Tgt Ion: 43	Resp: 28045
Ion Ratio	Lower Upper
43 100	
45 10.7	7.9 11.9
61 9.6	7.1 10.7
70 9.3	6.9 10.3



#26
Hexane
Concen: 0.945 ppbv
RT: 2.819 min Scan# 844
Delta R.T. 0.003 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

Tgt Ion: 57	Resp: 11972		
Ion	Ratio	Lower	Upper
57	100		
41	106.2	76.1	114.1
43	236.9	188.9	283.3
56	64.2	45.2	67.8

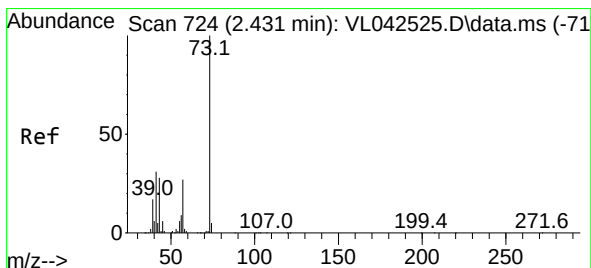
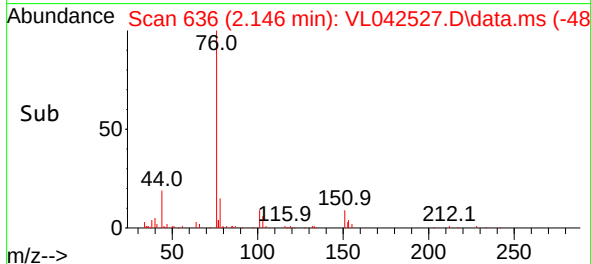
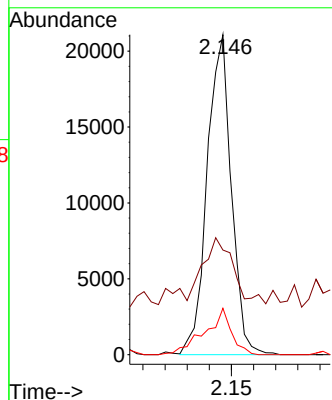
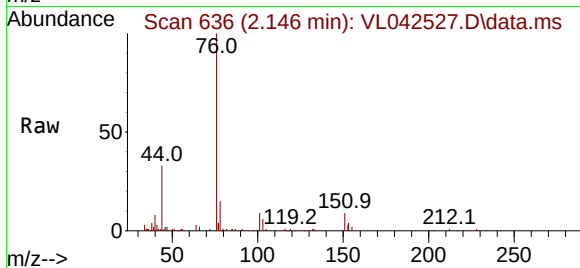




#27
Carbon Disulfide
Concen: 0.979 ppbv
RT: 2.146 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

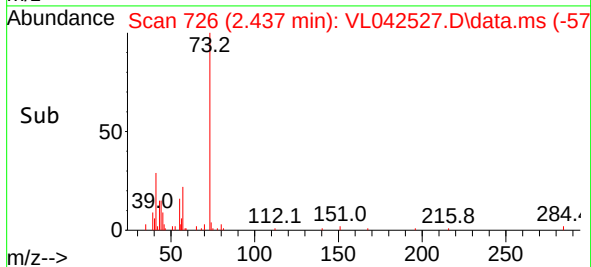
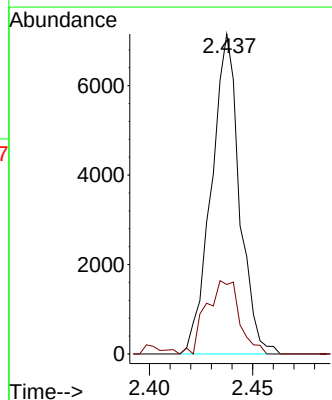
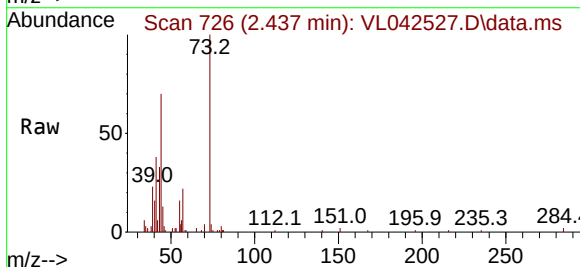
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

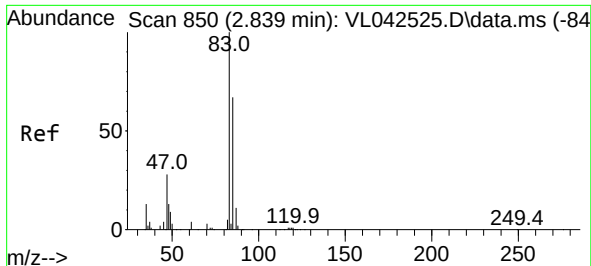
Tgt Ion: 76 Resp: 16011
Ion Ratio Lower Upper
76 100
44 90.3 17.1 25.7#
78 15.9 8.6 12.8#



#28
Methyl tert-Butyl Ether
Concen: 0.965 ppbv
RT: 2.437 min Scan# 726
Delta R.T. 0.006 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

Tgt Ion: 73 Resp: 6789
Ion Ratio Lower Upper
73 100
57 29.1 20.3 30.5





#29

Chloroform

Concen: 1.026 ppbv

RT: 2.842 min Scan# 81

Delta R.T. 0.003 min

Lab File: VL042527.D

Acq: 12 May 2025 10:07

Instrument :

MSVOA_L

ClientSampleId :

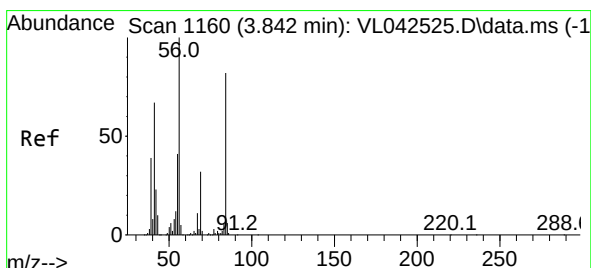
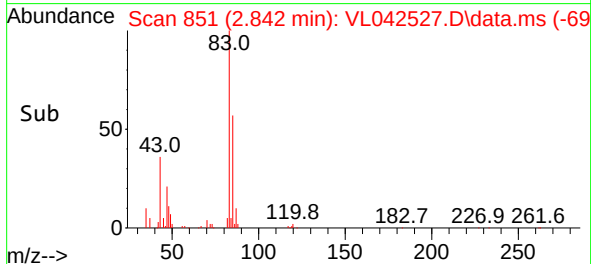
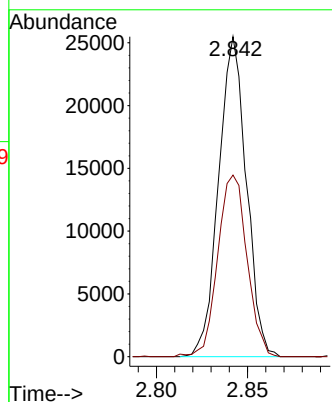
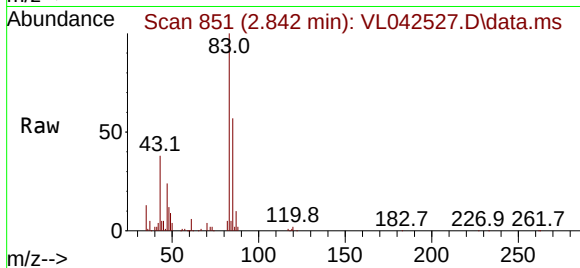
VSTDIC001

Tgt Ion: 83 Resp: 26959

Ion Ratio Lower Upper

83 100

85 56.7 53.5 80.3



#30

Cyclohexane

Concen: 0.527 ppbv

RT: 3.845 min Scan# 1161

Delta R.T. 0.003 min

Lab File: VL042527.D

Acq: 12 May 2025 10:07

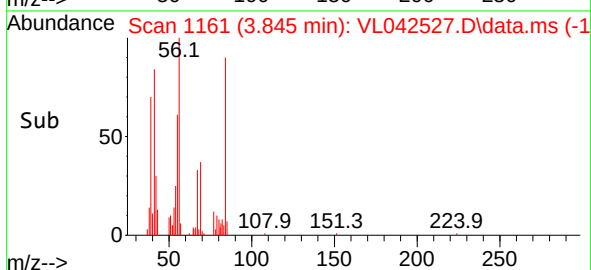
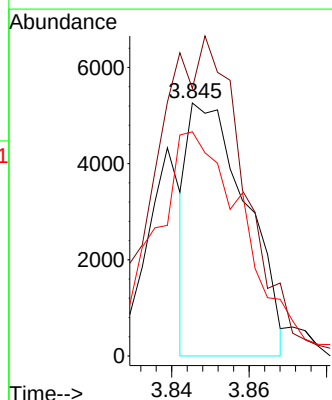
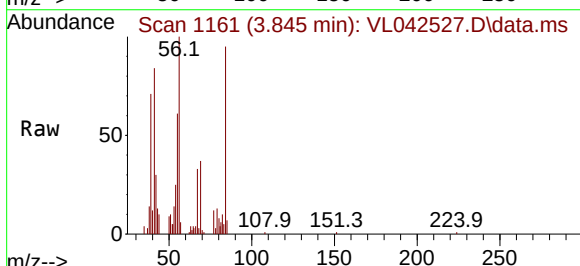
Tgt Ion: 84 Resp: 5478

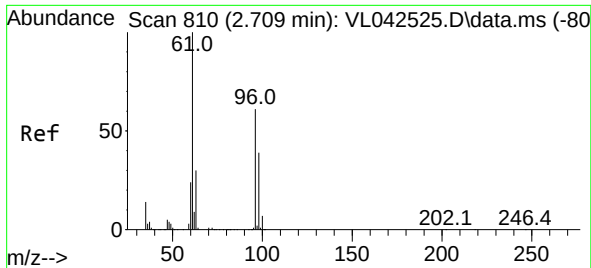
Ion Ratio Lower Upper

84 100

56 201.2 97.1 145.7#

41 144.5 66.6 99.8#

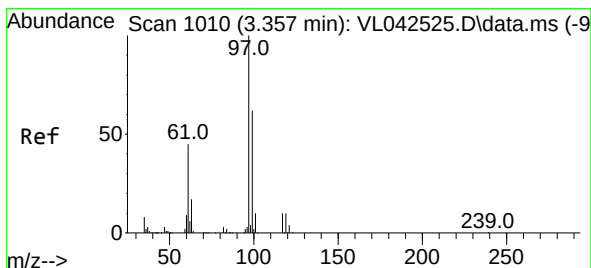
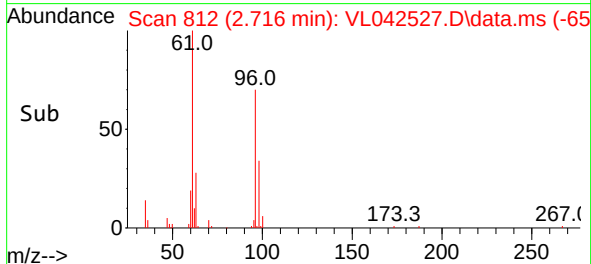
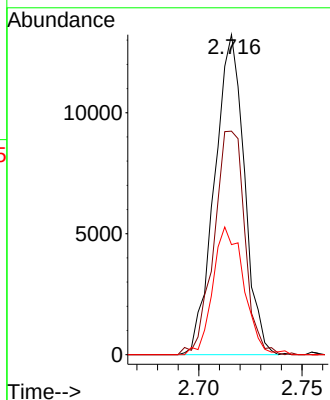
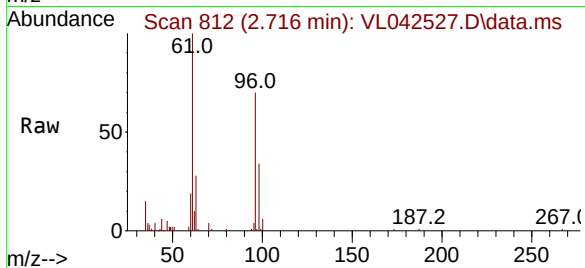




#31
 cis-1,2-Dichloroethene
 Concen: 0.928 ppbv
 RT: 2.716 min Scan# 81
 Delta R.T. 0.006 min
 Lab File: VL042527.D
 Acq: 12 May 2025 10:07

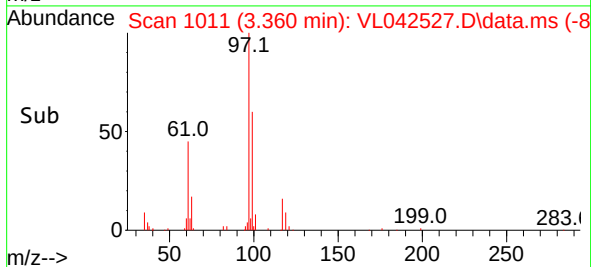
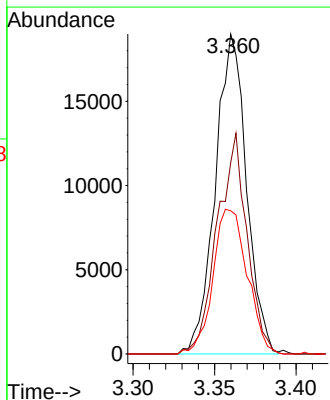
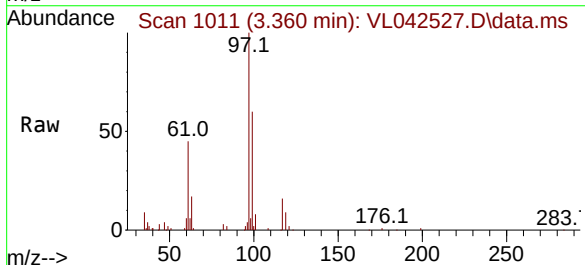
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

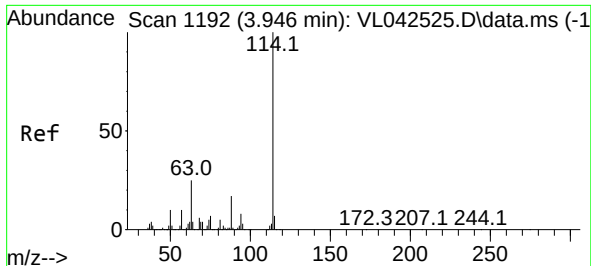
Tgt Ion: 61 Resp: 13267
 Ion Ratio Lower Upper
 61 100
 96 69.8 48.9 73.3
 98 34.4 31.4 47.2



#32
 1,1,1-Trichloroethane
 Concen: 0.955 ppbv
 RT: 3.360 min Scan# 1011
 Delta R.T. 0.003 min
 Lab File: VL042527.D
 Acq: 12 May 2025 10:07

Tgt Ion: 97 Resp: 25297
 Ion Ratio Lower Upper
 97 100
 99 65.8 50.1 75.1
 61 49.8 38.2 57.2

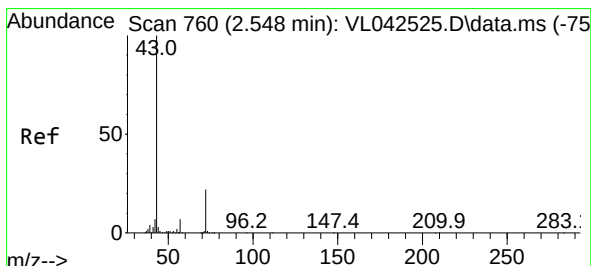
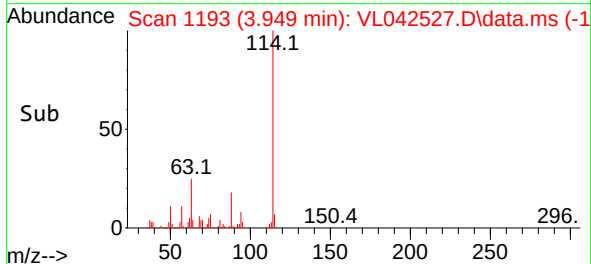
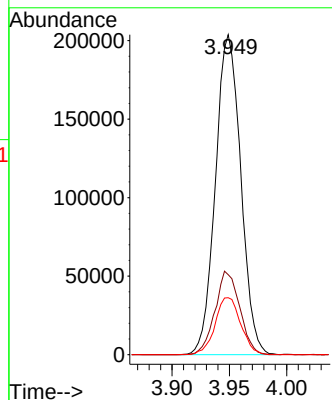
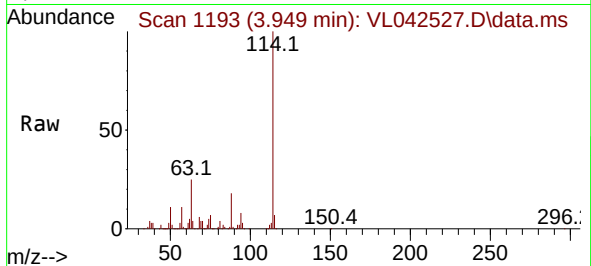




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 1193
Delta R.T. 0.003 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

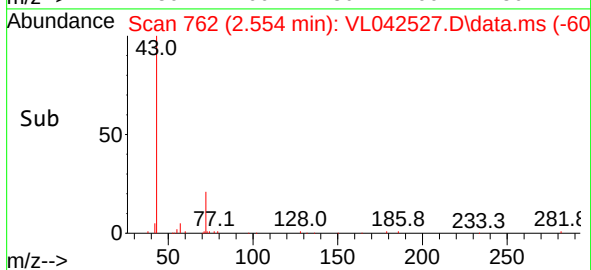
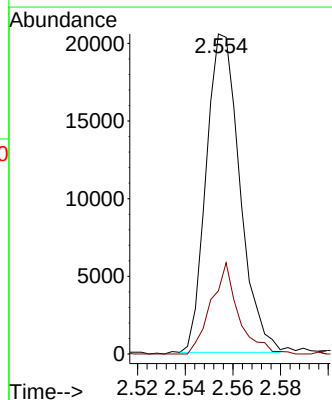
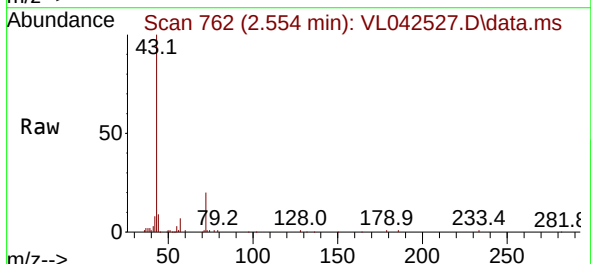
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

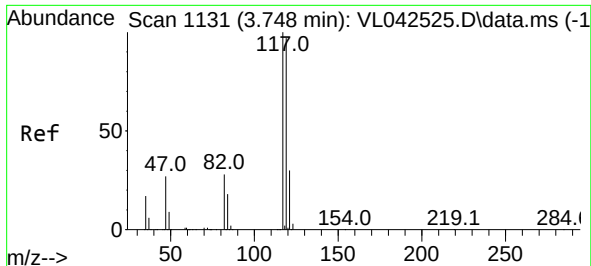
Tgt Ion:114 Resp: 312995
Ion Ratio Lower Upper
114 100
63 25.5 20.4 30.6
88 18.0 14.5 21.7



#34
2-Butanone
Concen: 0.978 ppbv
RT: 2.554 min Scan# 762
Delta R.T. 0.006 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

Tgt Ion: 43 Resp: 20174
Ion Ratio Lower Upper
43 100
72 23.4 18.7 28.1

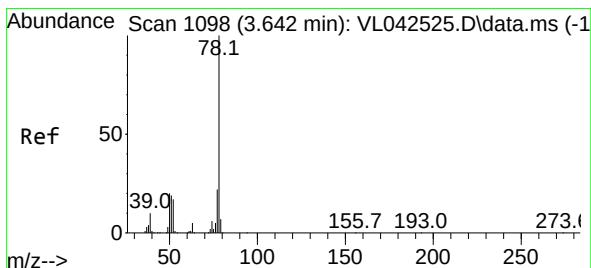
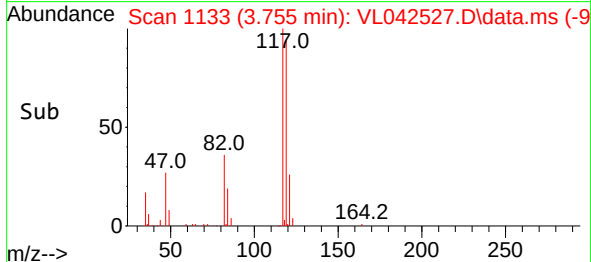
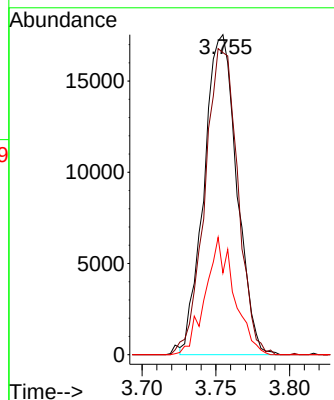
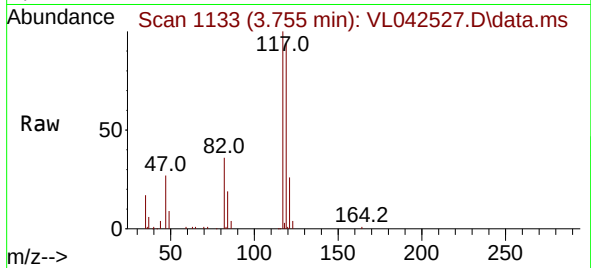




#35
Carbon Tetrachloride
Concen: 0.966 ppbv
RT: 3.755 min Scan# 1131
Delta R.T. 0.006 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

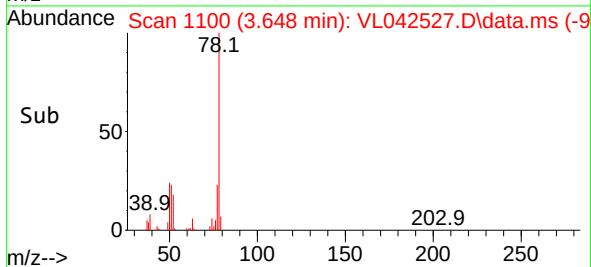
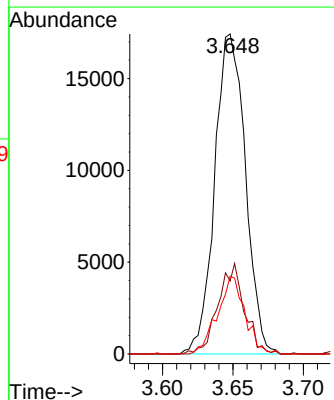
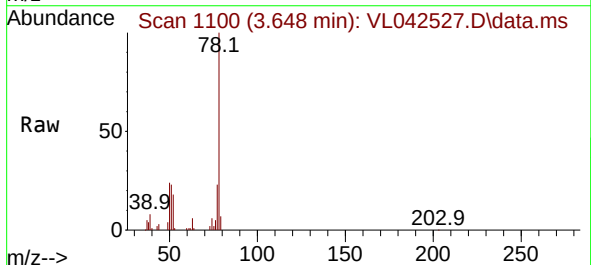
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

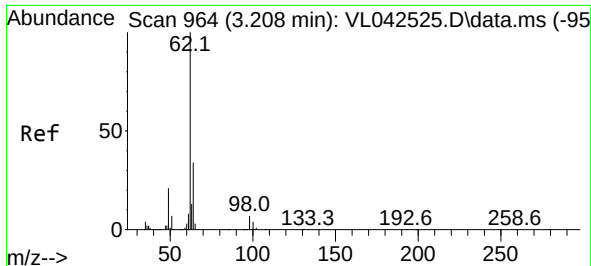
Tgt Ion:117 Resp: 27182
Ion Ratio Lower Upper
117 100
119 94.4 77.7 116.5
121 25.5 24.0 36.0



#36
Benzene
Concen: 0.954 ppbv
RT: 3.648 min Scan# 1100
Delta R.T. 0.006 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

Tgt Ion: 78 Resp: 26465
Ion Ratio Lower Upper
78 100
77 22.8 17.4 26.2
50 24.3 16.3 24.5

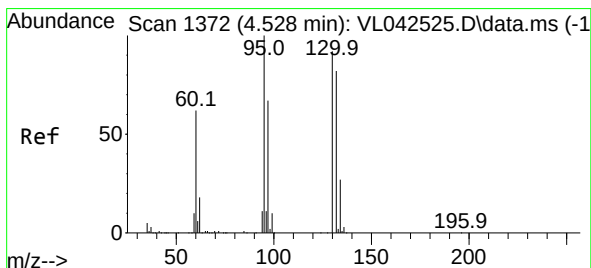
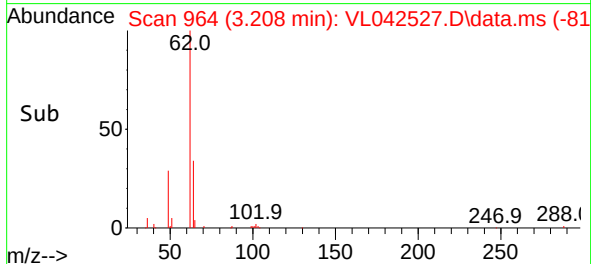
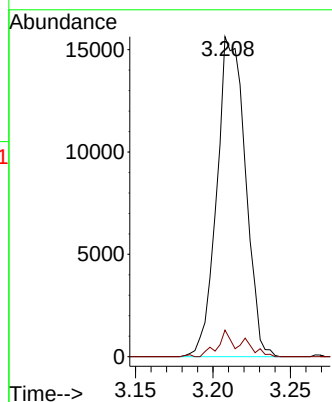
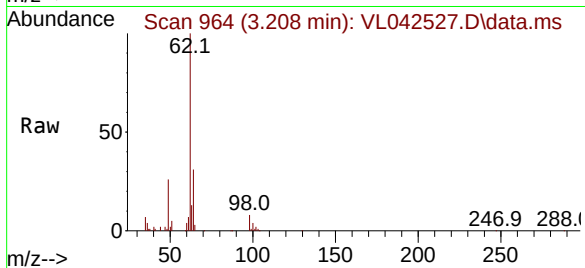




#37
 1,2-Dichloroethane
 Concen: 1.013 ppbv
 RT: 3.208 min Scan# 964
 Delta R.T. -0.000 min
 Lab File: VL042527.D
 Acq: 12 May 2025 10:07

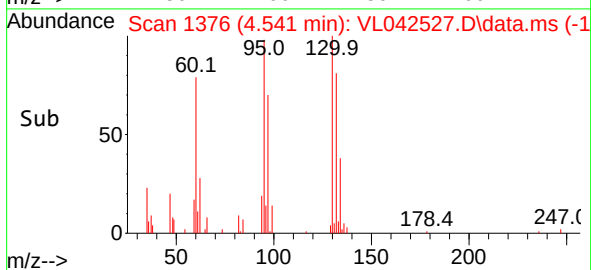
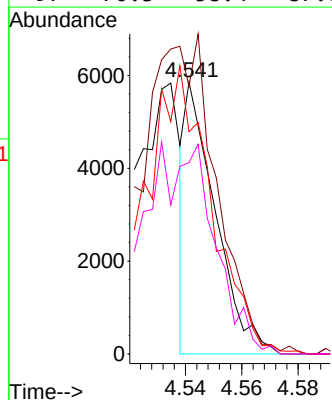
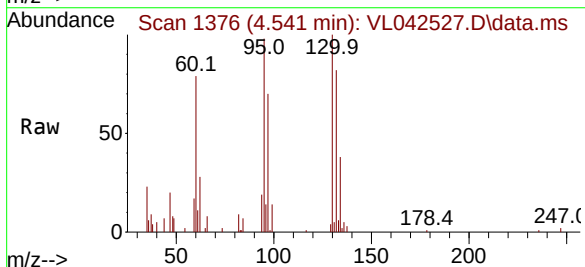
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

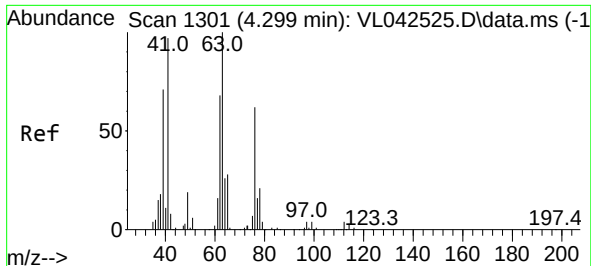
Tgt Ion: 62 Resp: 20039
 Ion Ratio Lower Upper
 62 100
 98 6.9 5.0 7.4



#38
 Trichloroethene
 Concen: 0.368 ppbv
 RT: 4.541 min Scan# 1376
 Delta R.T. 0.013 min
 Lab File: VL042527.D
 Acq: 12 May 2025 10:07

Tgt Ion:130 Resp: 4359
 Ion Ratio Lower Upper
 130 100
 95 97.2 87.0 130.4
 132 80.6 71.1 106.7
 97 70.3 58.4 87.6





#39

1,2-Dichloropropane

Concen: 0.907 ppbv

RT: 4.308 min Scan# 1304

Delta R.T. 0.010 min

Lab File: VL042527.D

Acq: 12 May 2025 10:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

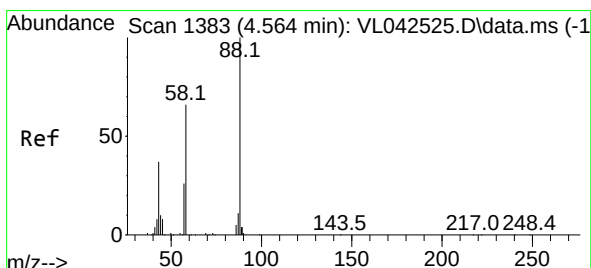
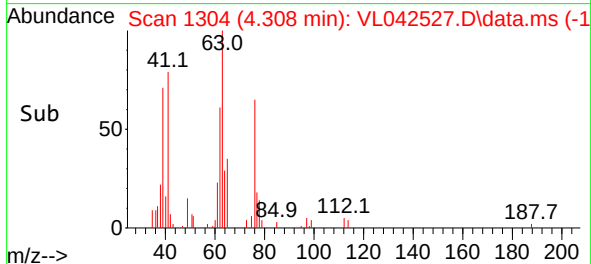
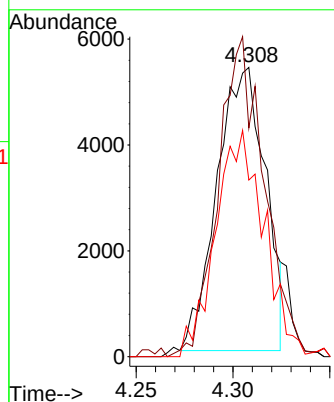
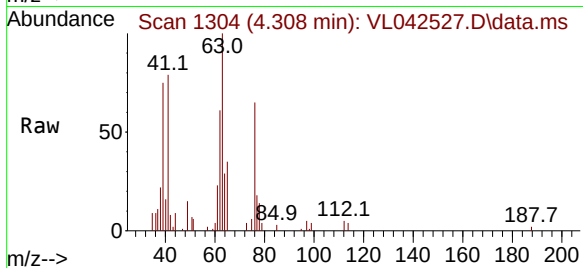
Tgt Ion: 63 Resp: 9362

Ion Ratio Lower Upper

63 100

41 78.5 77.5 116.3

62 62.4 54.6 82.0



#40

1,4-Dioxane

Concen: 0.461 ppbv

RT: 4.583 min Scan# 1389

Delta R.T. 0.019 min

Lab File: VL042527.D

Acq: 12 May 2025 10:07

Tgt Ion: 88 Resp: 1896

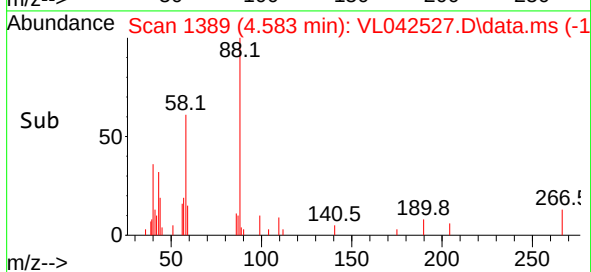
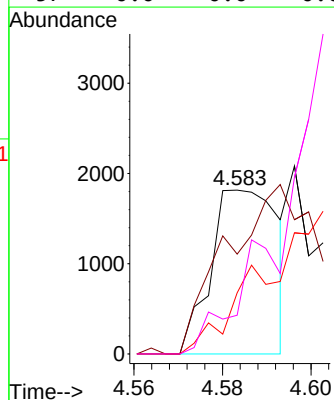
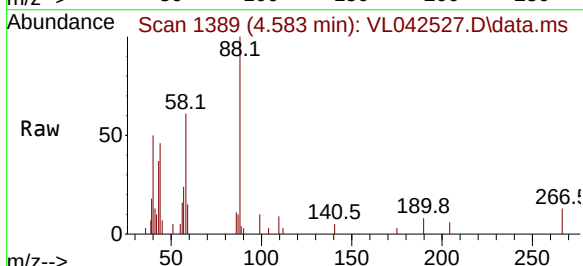
Ion Ratio Lower Upper

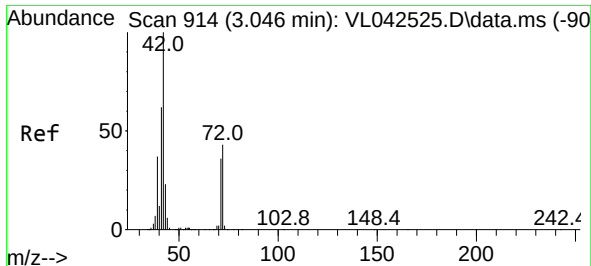
88 100

58 0.0 58.2 87.2#

43 0.0 27.9 41.9#

57 0.0 0.0 0.0





#41

Tetrahydrofuran

Concen: 0.893 ppbv

RT: 3.056 min Scan# 914

Delta R.T. 0.010 min

Lab File: VL042527.D

Acq: 12 May 2025 10:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

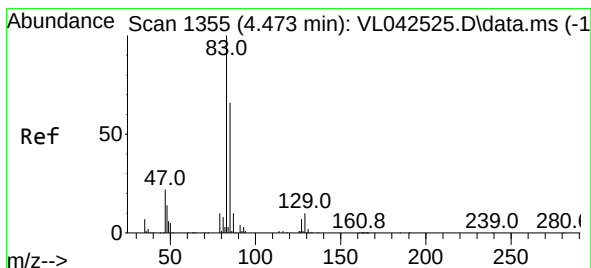
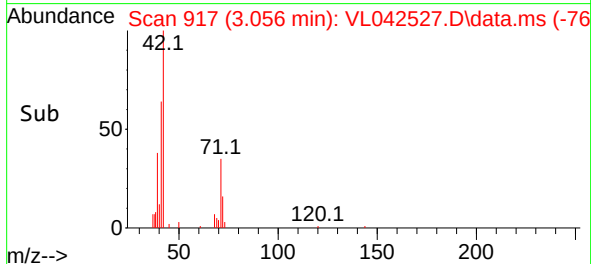
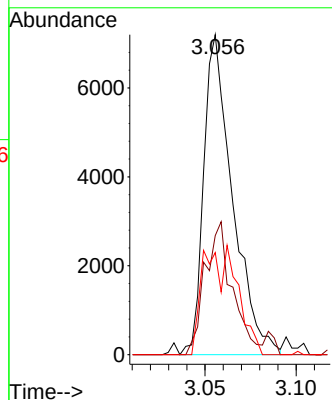
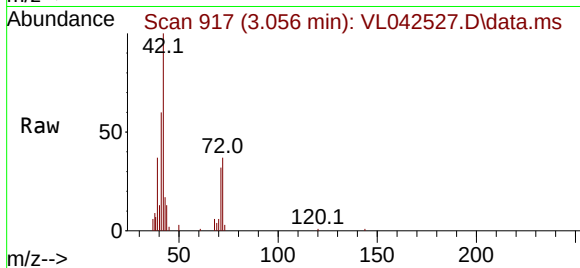
Tgt Ion: 42 Resp: 7944

Ion Ratio Lower Upper

42 100

72 41.7 32.7 49.1

71 40.4 30.4 45.6



#42

Bromodichloromethane

Concen: 0.904 ppbv

RT: 4.480 min Scan# 1357

Delta R.T. 0.006 min

Lab File: VL042527.D

Acq: 12 May 2025 10:07

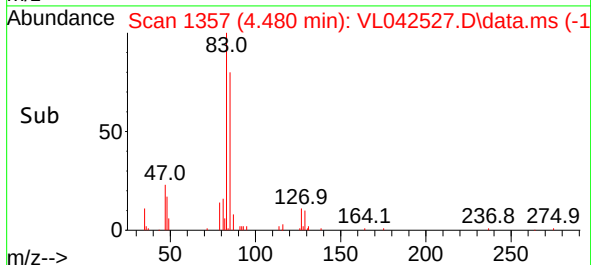
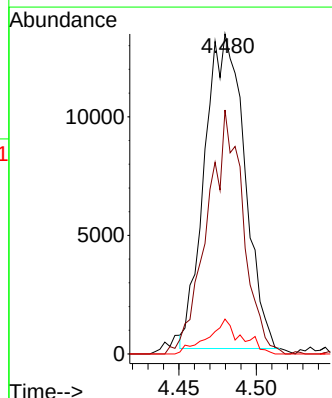
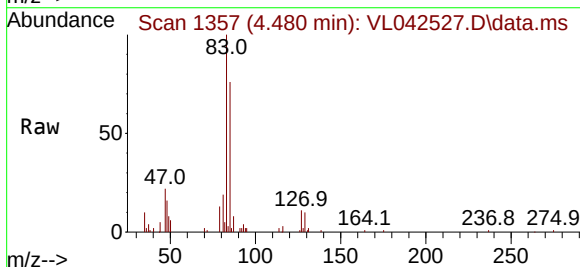
Tgt Ion: 83 Resp: 23829

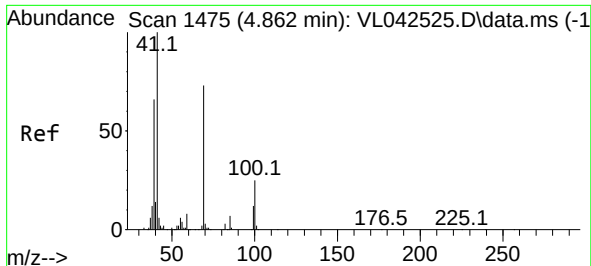
Ion Ratio Lower Upper

83 100

85 76.4 52.6 79.0

127 11.1 6.0 9.0#

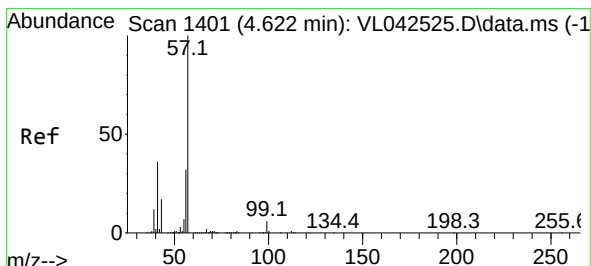
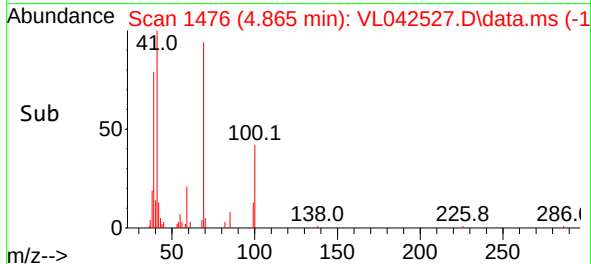
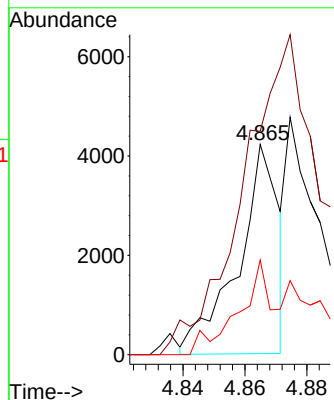
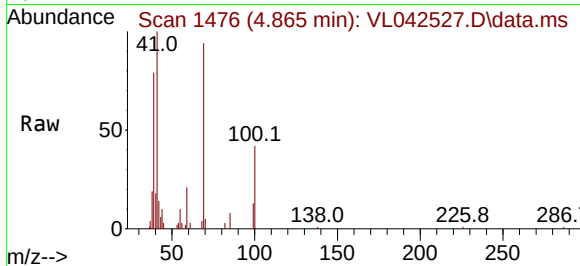




#43
Methyl Methacrylate
Concen: 0.409 ppbv
RT: 4.865 min Scan# 1475
Delta R.T. 0.003 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

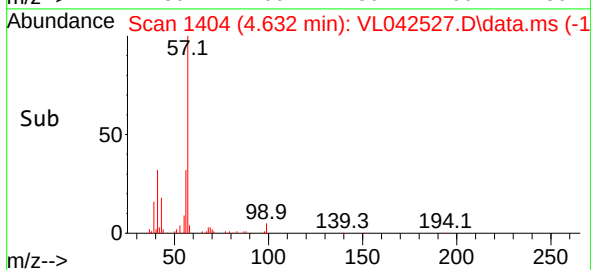
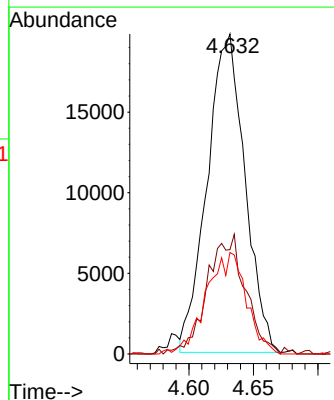
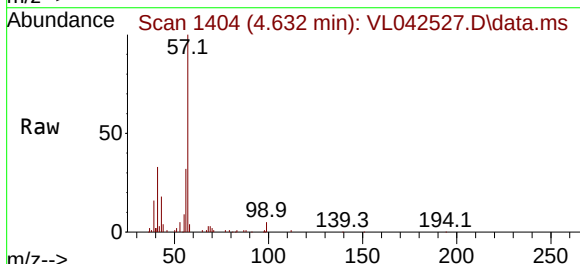
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

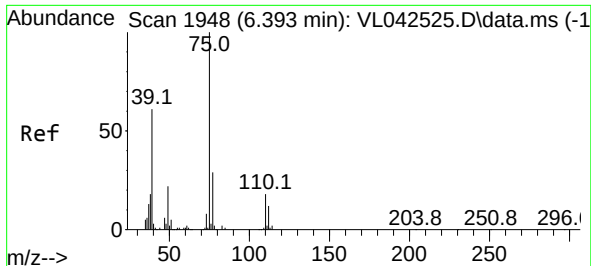
Tgt Ion: 69 Resp: 3789
Ion Ratio Lower Upper
69 100
41 0.0 119.9 179.9#
100 75.6 28.4 42.6#



#44
2,2,4-Trimethylpentane
Concen: 0.923 ppbv
RT: 4.632 min Scan# 1404
Delta R.T. 0.010 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

Tgt Ion: 57 Resp: 40206
Ion Ratio Lower Upper
57 100
41 39.0 28.3 42.5
56 33.9 25.9 38.9





#45

t-1,3-Dichloropropene

Concen: 0.231 ppbv

RT: 6.399 min Scan# 1948

Delta R.T. 0.006 min

Lab File: VL042527.D

Acq: 12 May 2025 10:07

Instrument :

MSVOA_1

ClientSampleId :

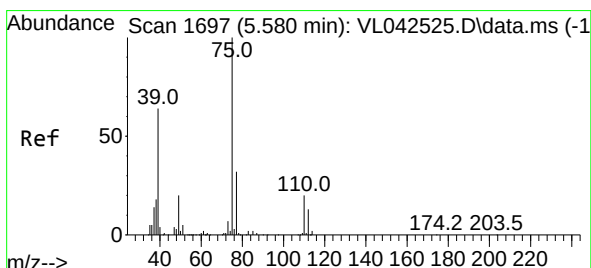
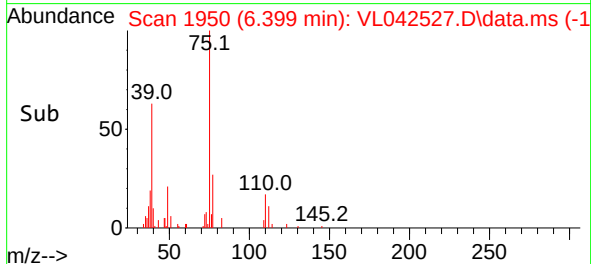
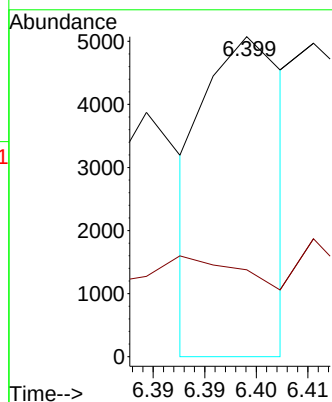
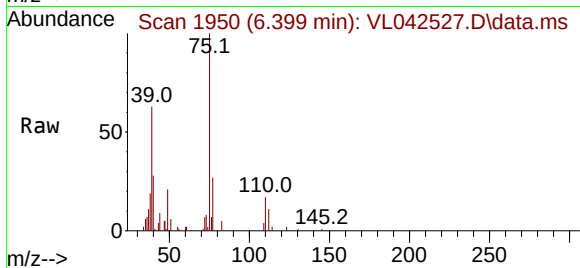
VSTDIC001

Tgt Ion: 75 Resp: 2734

Ion Ratio Lower Upper

75 100

77 27.2 23.3 34.9



#46

cis-1,3-Dichloropropene

Concen: 0.448 ppbv

RT: 5.580 min Scan# 1697

Delta R.T. -0.000 min

Lab File: VL042527.D

Acq: 12 May 2025 10:07

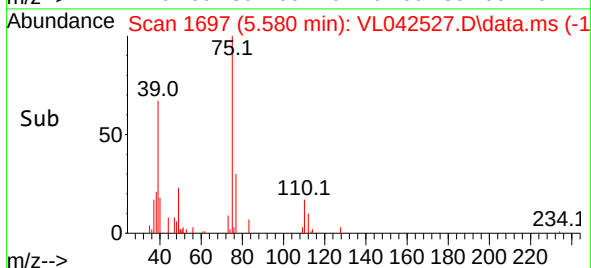
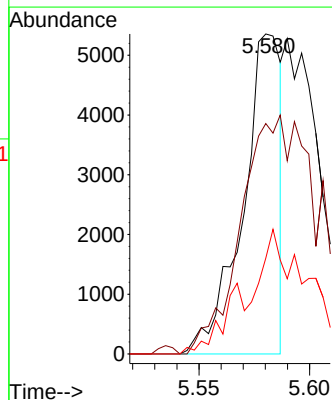
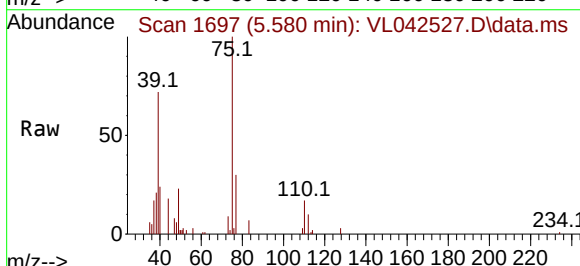
Tgt Ion: 75 Resp: 6387

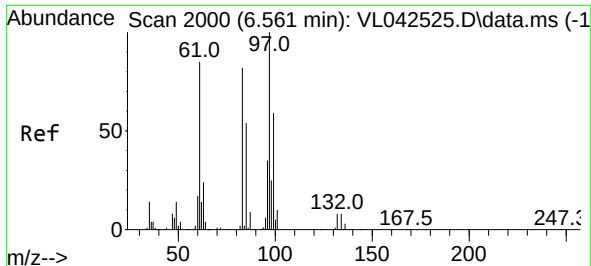
Ion Ratio Lower Upper

75 100

39 72.0 51.2 76.8

77 29.9 25.4 38.0





#47

1,1,2-Trichloroethane

Concen: 0.611 ppbv

RT: 6.571 min Scan# 2000

Delta R.T. 0.010 min

Lab File: VL042527.D

Acq: 12 May 2025 10:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion: 97 Resp: 7429

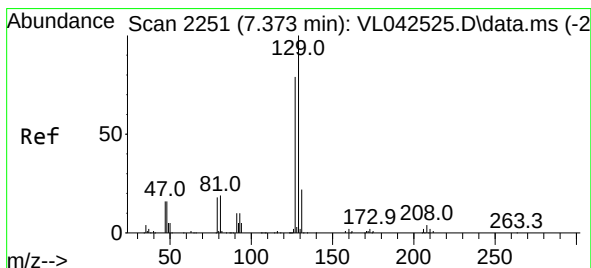
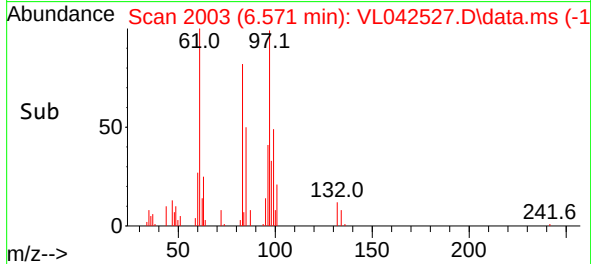
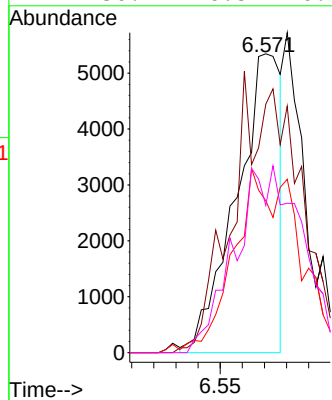
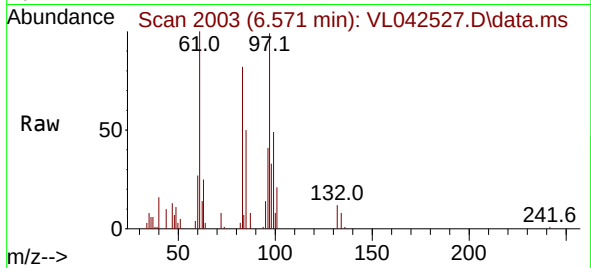
Ion Ratio Lower Upper

97 100

83 82.9 66.0 99.0

85 50.7 42.8 64.2

99 50.1 46.8 70.2



#48

Dibromochloromethane

Concen: 0.973 ppbv

RT: 7.377 min Scan# 2252

Delta R.T. 0.003 min

Lab File: VL042527.D

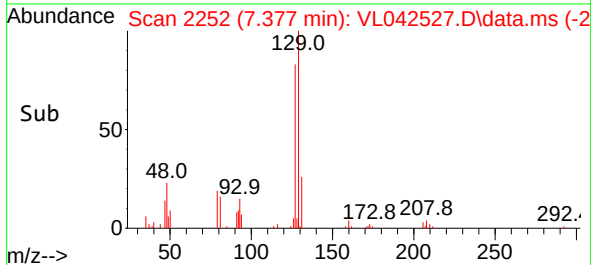
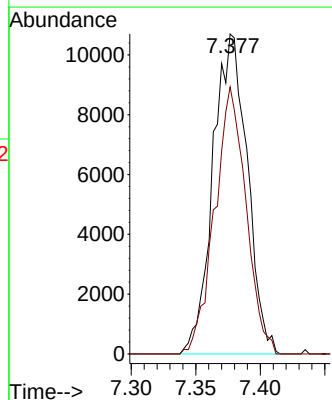
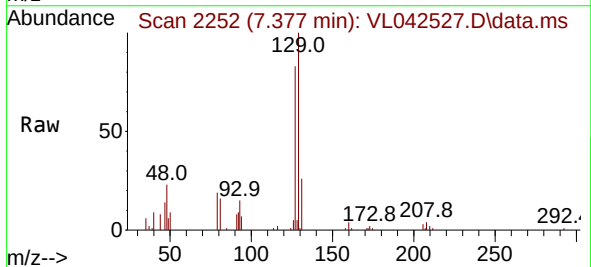
Acq: 12 May 2025 10:07

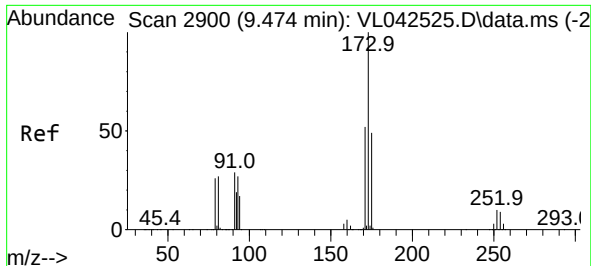
Tgt Ion: 129 Resp: 19761

Ion Ratio Lower Upper

129 100

127 76.2 39.6 118.8

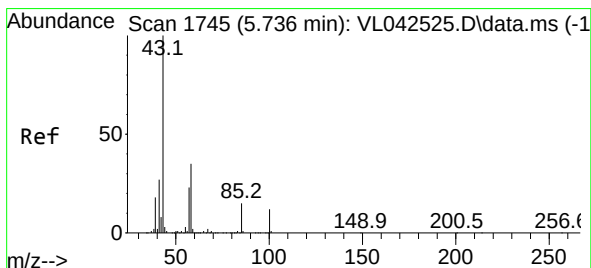
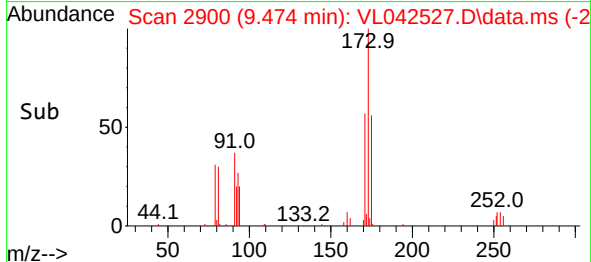
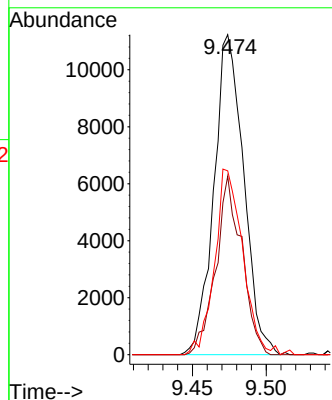
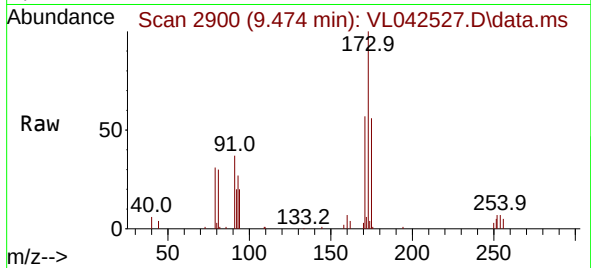




#49
Bromoform
Concen: 0.944 ppbv
RT: 9.474 min Scan# 2900
Delta R.T. -0.000 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

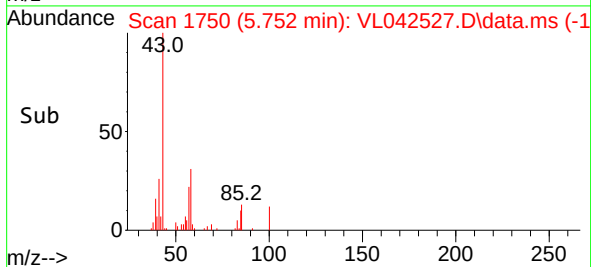
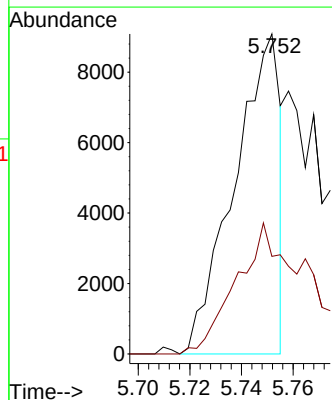
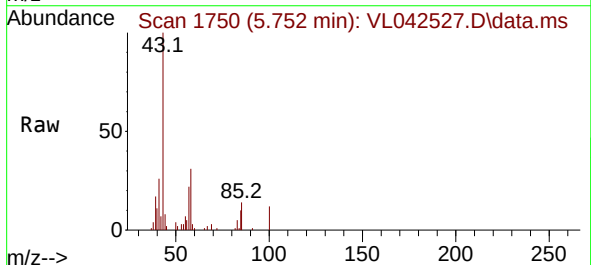
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

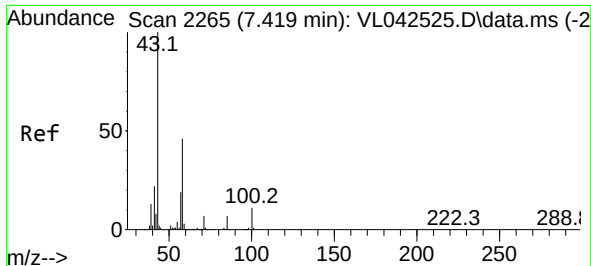
Tgt Ion:173 Resp: 15745
Ion Ratio Lower Upper
173 100
175 48.8 39.1 58.7
171 55.0 41.8 62.8



#50
4-Methyl-2-Pentanone
Concen: 0.463 ppbv
RT: 5.752 min Scan# 1750
Delta R.T. 0.016 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

Tgt Ion: 43 Resp: 11198
Ion Ratio Lower Upper
43 100
58 66.1 28.6 42.8#

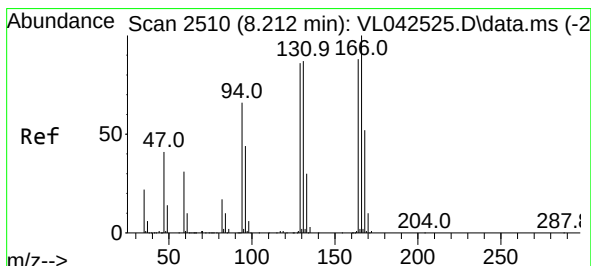
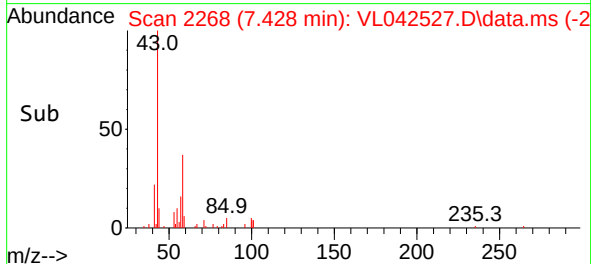
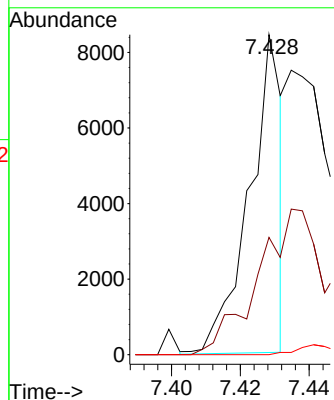
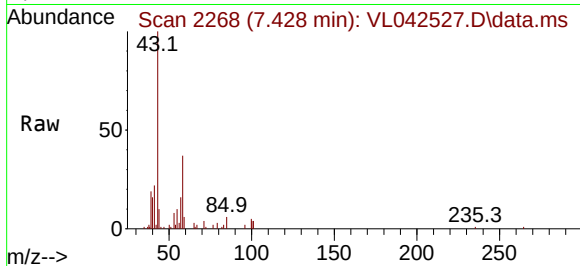




#51
2-Hexanone
Concen: 0.306 ppbv
RT: 7.428 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

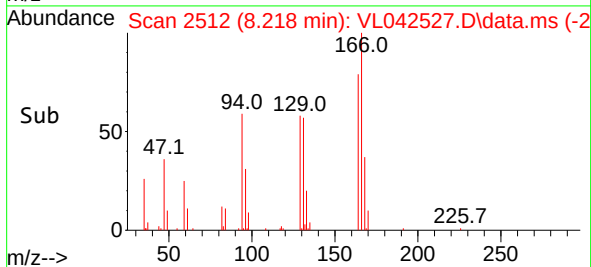
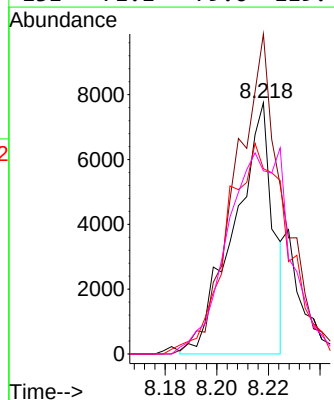
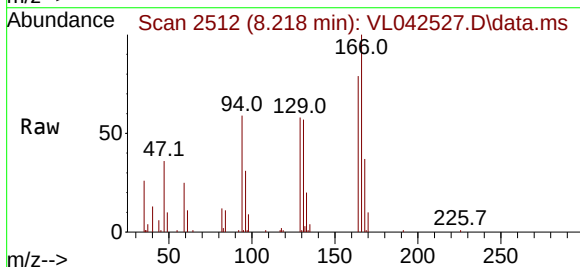
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

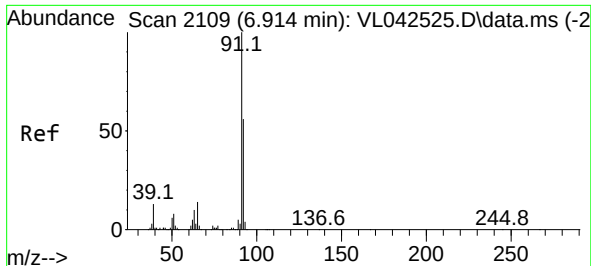
Tgt Ion: 43 Resp: 5497
Ion Ratio Lower Upper
43 100
58 0.0 37.5 56.3#
98 0.0 0.9 1.3#



#52
Tetrachloroethene
Concen: 0.753 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. 0.006 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

Tgt Ion: 164 Resp: 8047
Ion Ratio Lower Upper
164 100
166 127.4 91.3 136.9
129 71.0 78.9 118.3#
131 71.1 79.6 119.4#

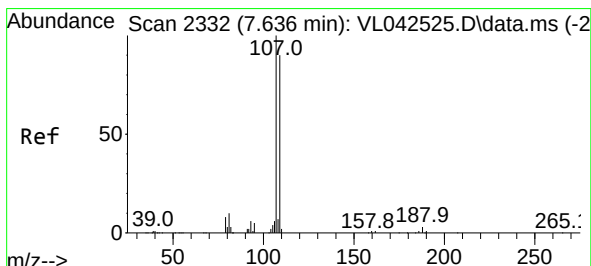
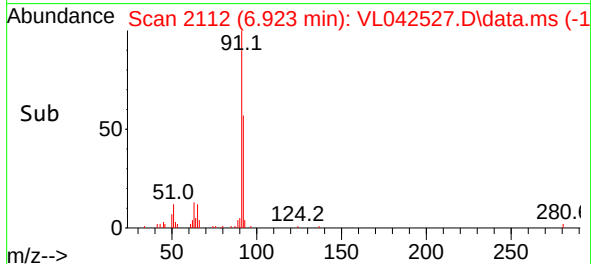
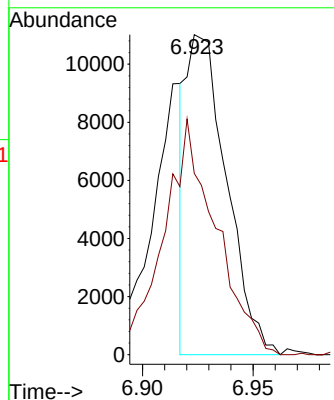
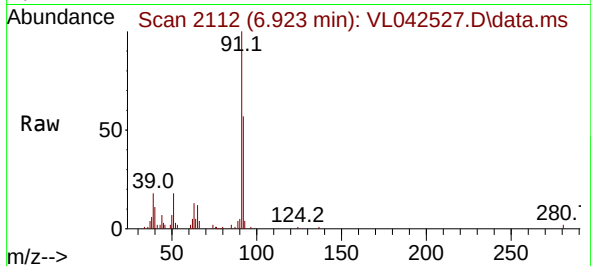




#53
Toluene
Concen: 0.514 ppbv
RT: 6.923 min Scan# 2112
Delta R.T. 0.010 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

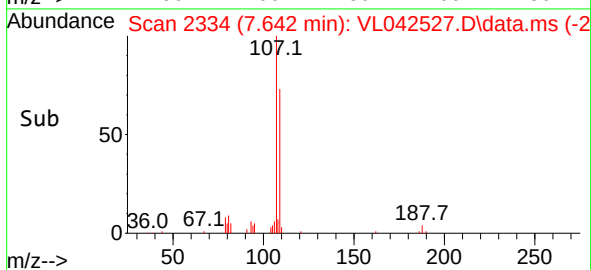
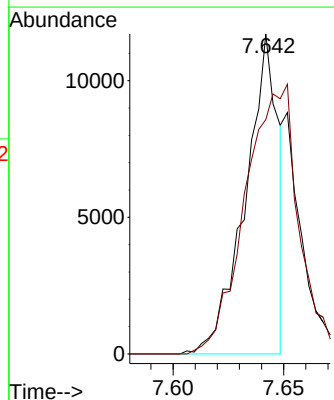
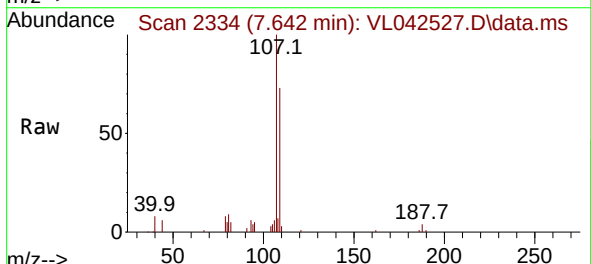
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

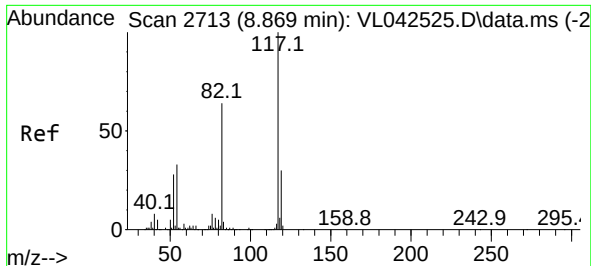
Tgt Ion: 91 Resp: 13979
Ion Ratio Lower Upper
91 100
92 96.7 47.8 71.6#



#54
1,2-Dibromoethane
Concen: 0.681 ppbv
RT: 7.642 min Scan# 2334
Delta R.T. 0.006 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

Tgt Ion: 107 Resp: 12101
Ion Ratio Lower Upper
107 100
109 73.3 72.2 108.4

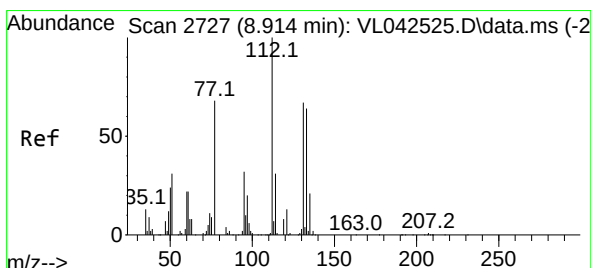
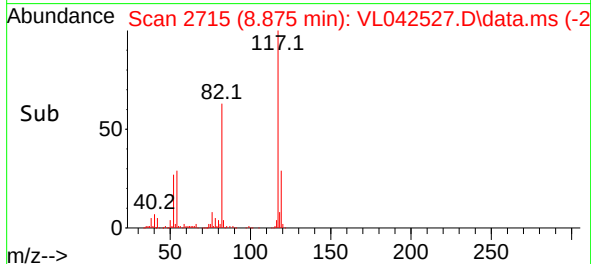
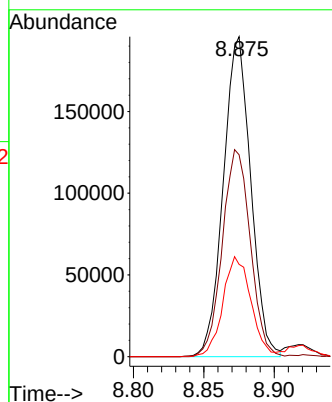
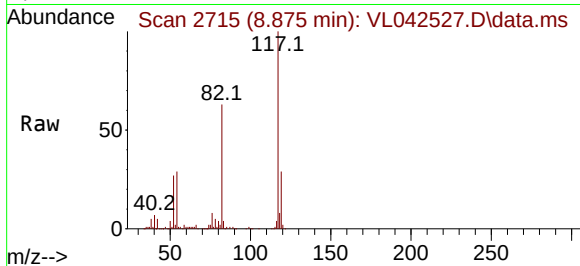




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. 0.006 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

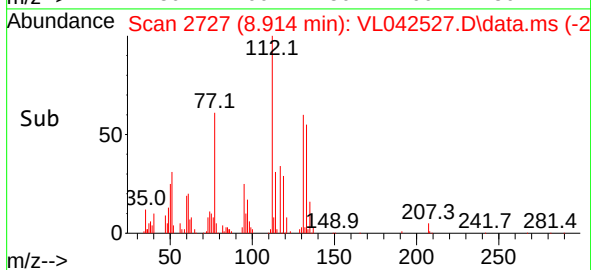
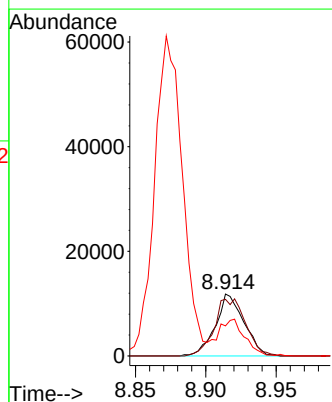
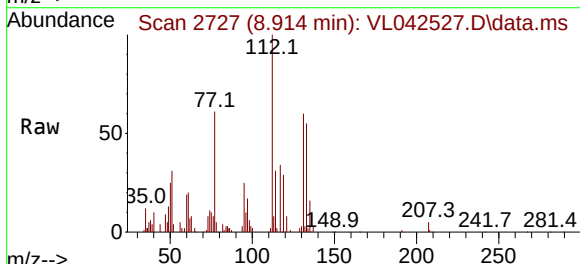
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

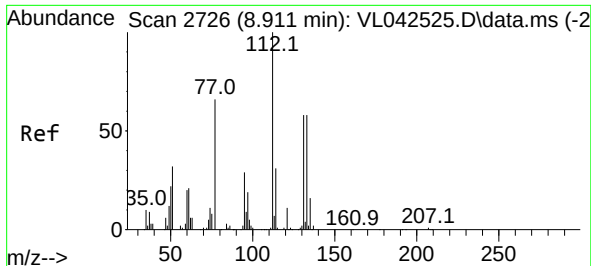
Tgt Ion:117 Resp: 265845
Ion Ratio Lower Upper
117 100
82 66.6 55.0 82.4
119 35.5 25.8 38.6



#56
1,1,1,2-Tetrachloroethane
Concen: 1.010 ppbv
RT: 8.914 min Scan# 2727
Delta R.T. -0.000 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

Tgt Ion:131 Resp: 16650
Ion Ratio Lower Upper
131 100
133 102.2 77.4 116.2
119 566.5 49.0 73.4#

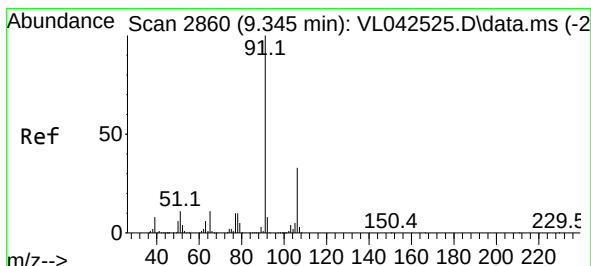
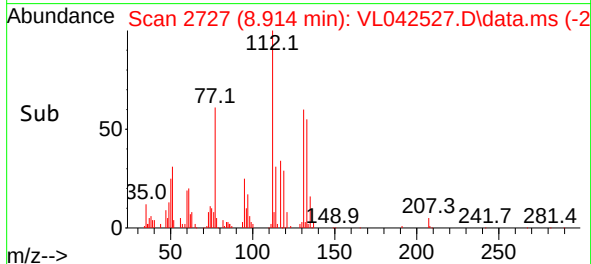
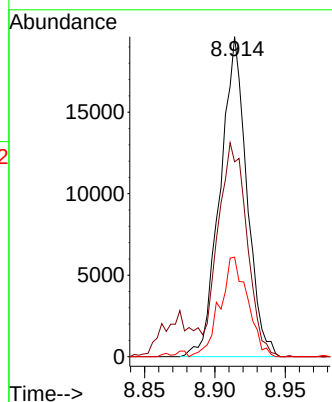
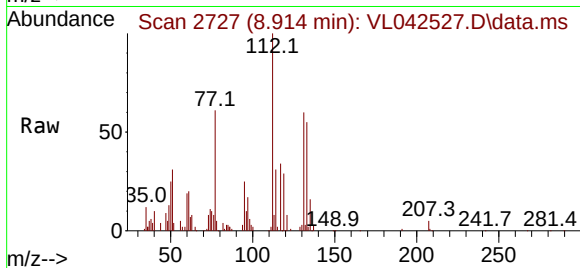




#57
Chlorobenzene
Concen: 0.973 ppbv
RT: 8.914 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

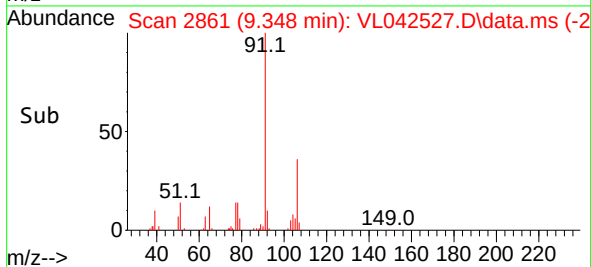
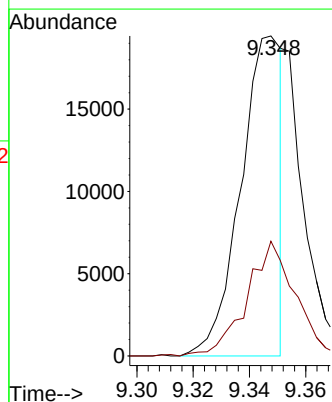
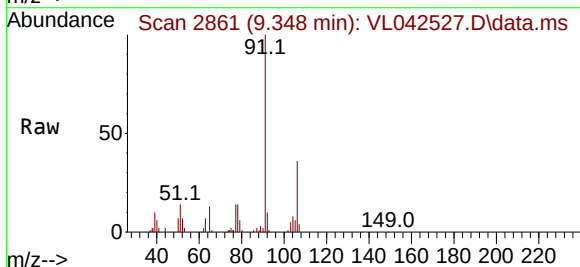
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

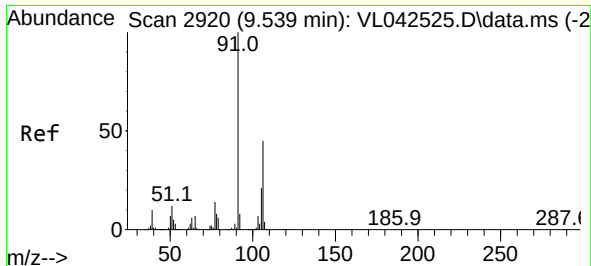
Tgt Ion:112 Resp: 25980
Ion Ratio Lower Upper
112 100
77 60.9 53.6 80.4
114 30.8 28.2 34.4



#58
Ethyl Benzene
Concen: 0.545 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. 0.003 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

Tgt Ion: 91 Resp: 19764
Ion Ratio Lower Upper
91 100
106 36.0 26.0 39.0





#59

m/p-Xylene

Concen: 1.041 ppbv

RT: 9.542 min Scan# 2921

Delta R.T. 0.003 min

Lab File: VL042527.D

Acq: 12 May 2025 10:07

Instrument :

MSVOA_1

ClientSampleId :

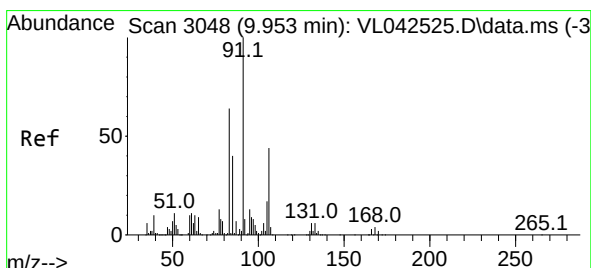
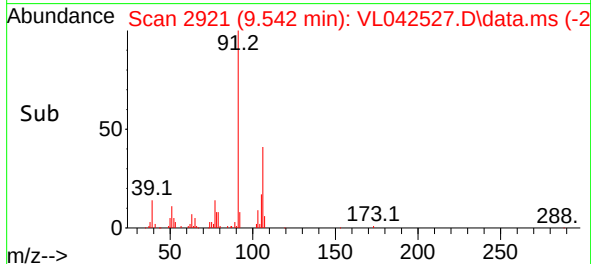
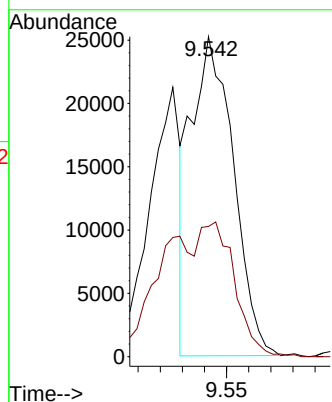
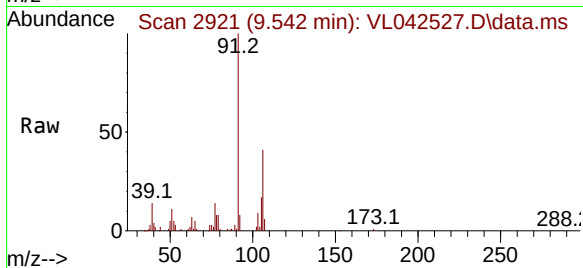
VSTDIC001

Tgt Ion: 91 Resp: 33567

Ion Ratio Lower Upper

91 100

106 72.3 0.0 0.0#



#60

o-Xylene

Concen: 0.854 ppbv

RT: 9.956 min Scan# 3049

Delta R.T. 0.003 min

Lab File: VL042527.D

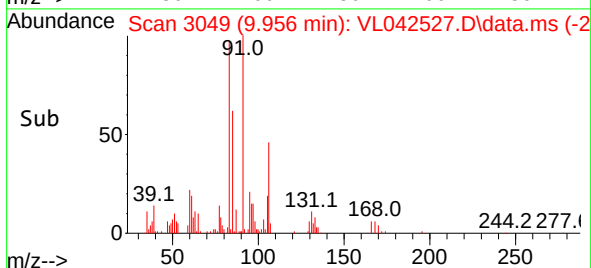
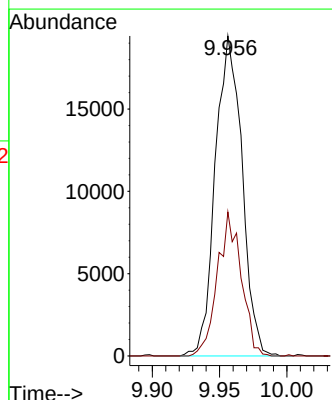
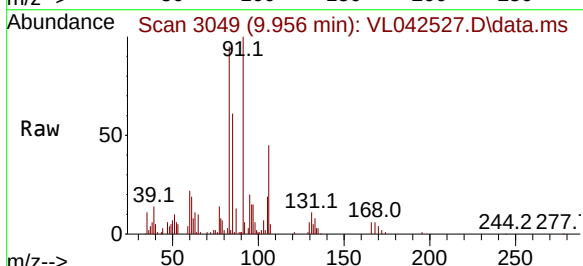
Acq: 12 May 2025 10:07

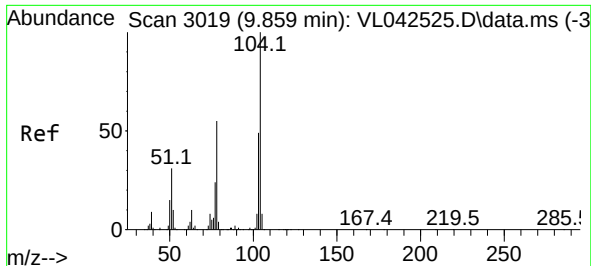
Tgt Ion: 91 Resp: 26834

Ion Ratio Lower Upper

91 100

106 40.1 21.6 64.6

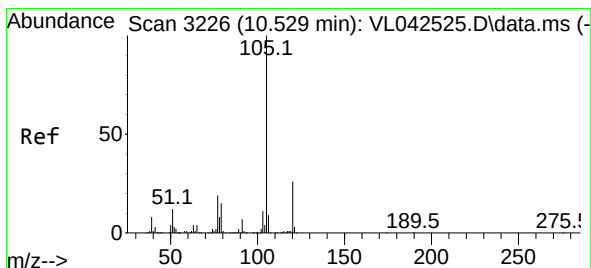
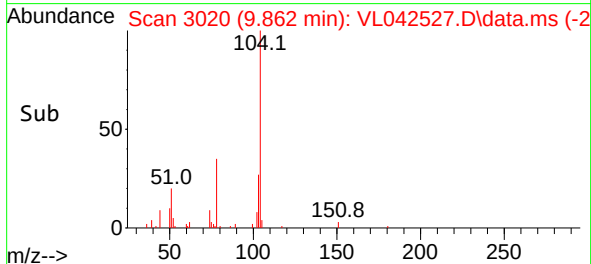
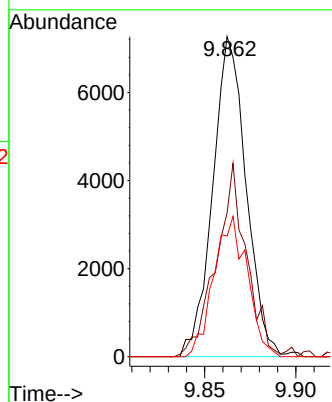
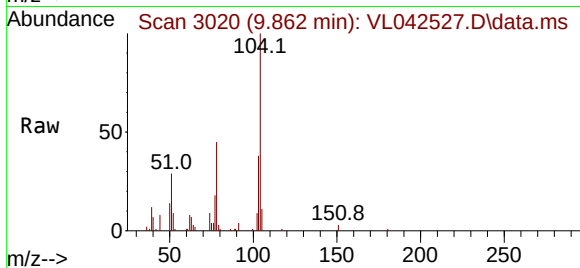




#61
Styrene
Concen: 0.800 ppbv
RT: 9.862 min Scan# 3019
Delta R.T. 0.003 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

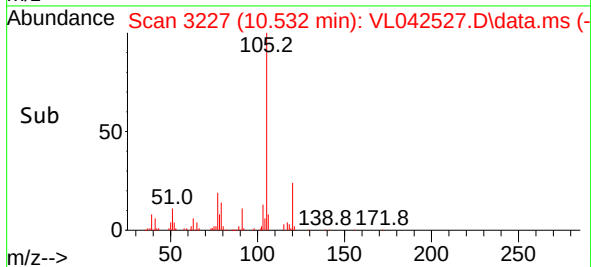
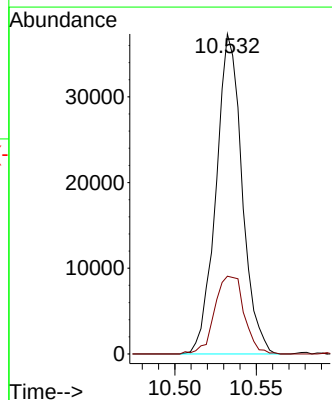
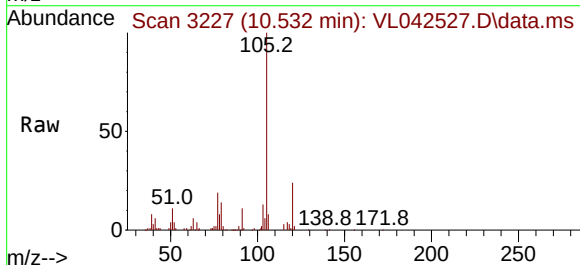
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

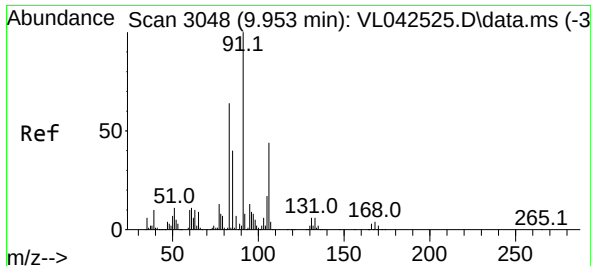
Tgt Ion:104 Resp: 9259
Ion Ratio Lower Upper
104 100
78 55.5 44.7 67.1
103 44.0 38.6 58.0



#62
Isopropylbenzene
Concen: 0.877 ppbv
RT: 10.532 min Scan# 3227
Delta R.T. 0.003 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

Tgt Ion:105 Resp: 41504
Ion Ratio Lower Upper
105 100
120 27.4 20.1 30.1

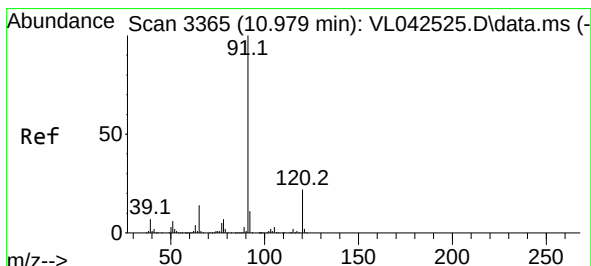
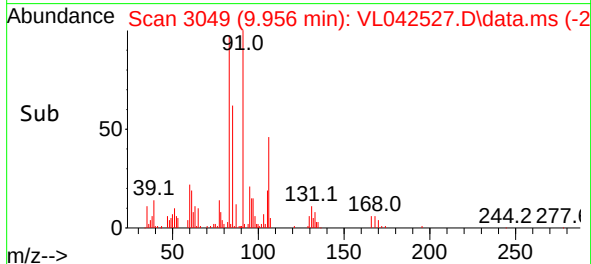
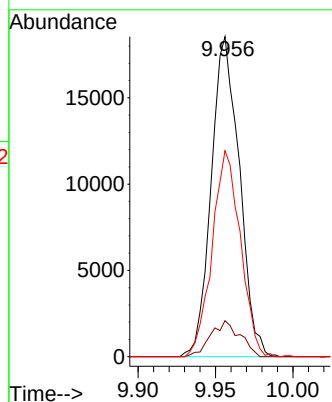
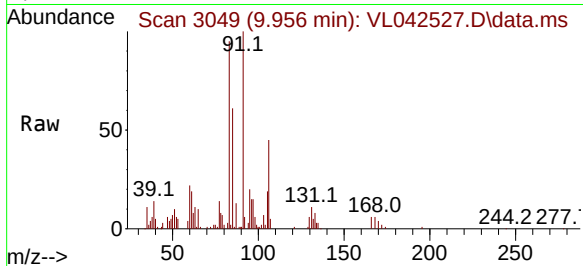




#63
1,1,2,2-Tetrachloroethane
Concen: 0.930 ppbv
RT: 9.956 min Scan# 3049
Delta R.T. 0.003 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

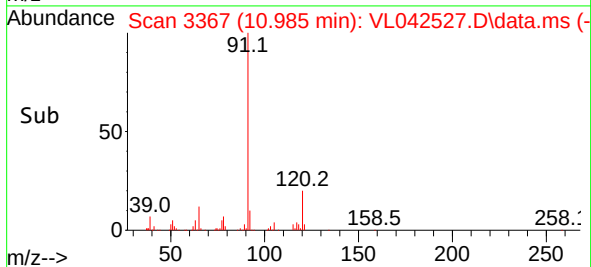
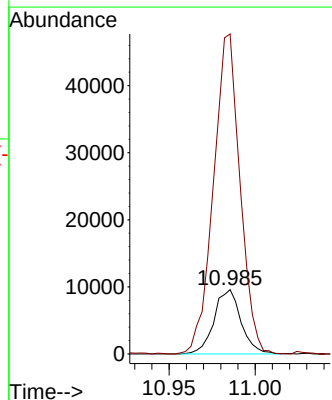
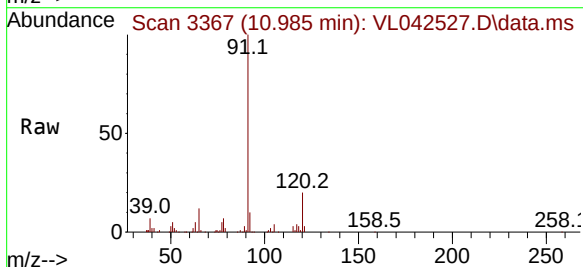
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

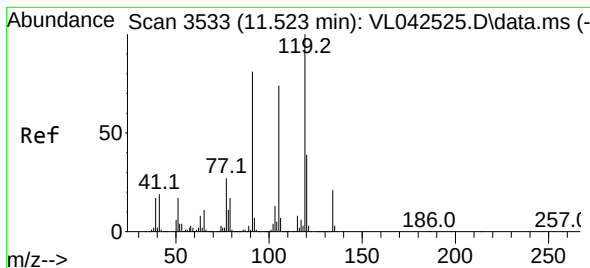
Tgt Ion: 83 Resp: 23419
Ion Ratio Lower Upper
83 100
131 11.7 4.9 14.7
85 64.6 32.3 96.8



#64
n-propylbenzene
Concen: 0.870 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. 0.006 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

Tgt Ion: 120 Resp: 10433
Ion Ratio Lower Upper
120 100
91 491.4 377.7 566.5

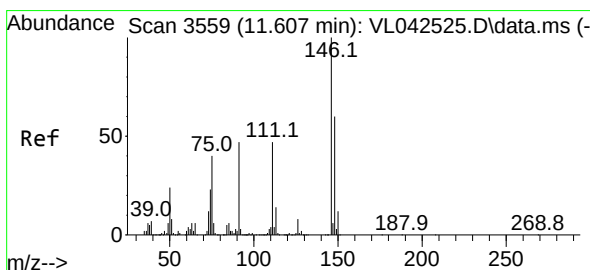
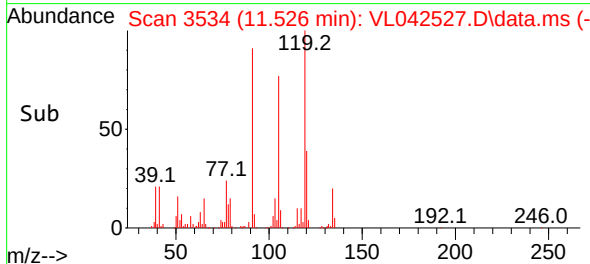
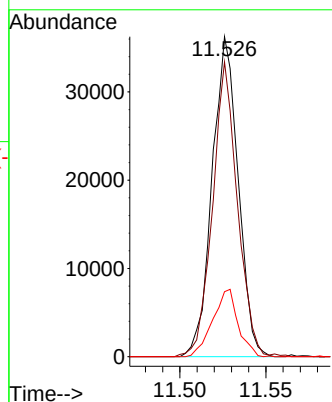
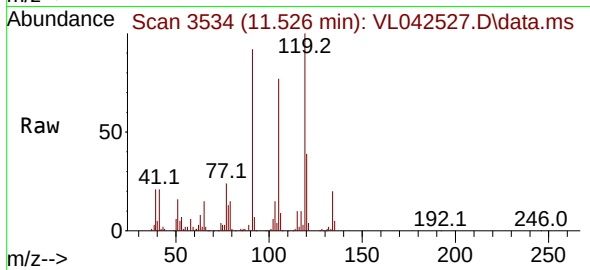




#65
 tert-Butylbenzene
 Concen: 0.878 ppbv
 RT: 11.526 min Scan# 3534
 Delta R.T. 0.003 min
 Lab File: VL042527.D
 Acq: 12 May 2025 10:07

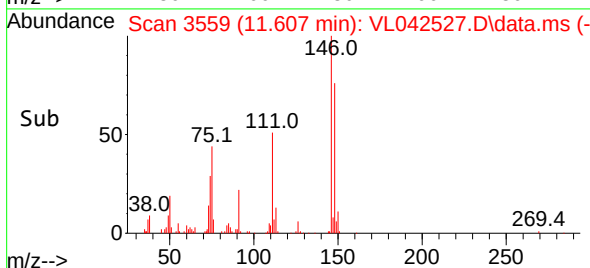
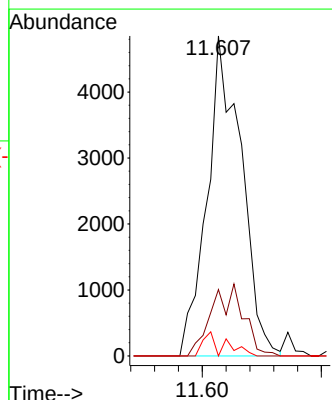
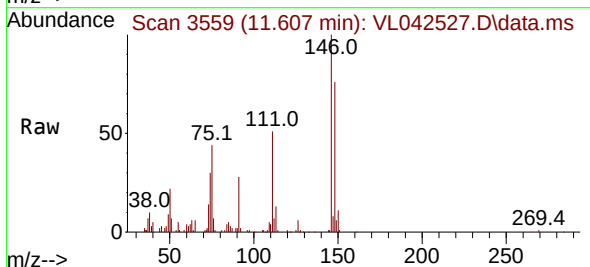
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

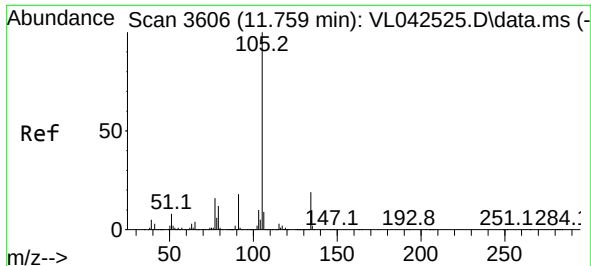
Tgt Ion: 119 Resp: 38176
 Ion Ratio Lower Upper
 119 100
 91 87.9 66.6 99.8
 134 20.5 16.3 24.5



#66
 Benzyl Chloride
 Concen: 0.839 ppbv
 RT: 11.607 min Scan# 3559
 Delta R.T. -0.000 min
 Lab File: VL042527.D
 Acq: 12 May 2025 10:07

Tgt Ion: 91 Resp: 4826
 Ion Ratio Lower Upper
 91 100
 126 21.0 13.7 20.5#
 128 4.6 4.2 6.2

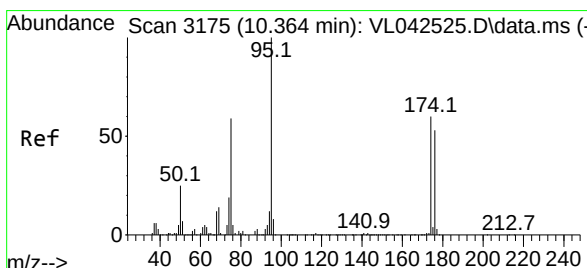
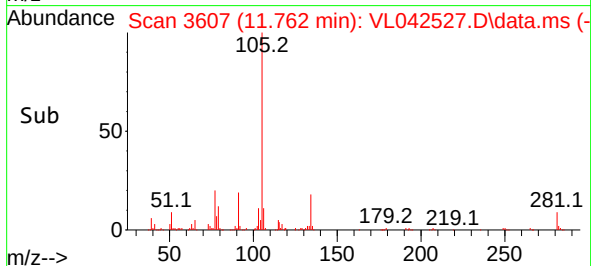
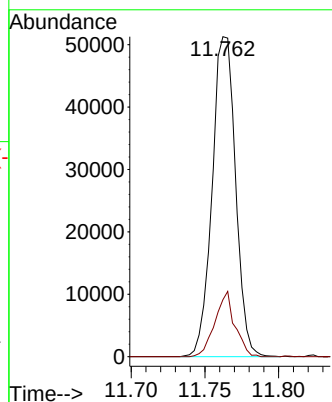
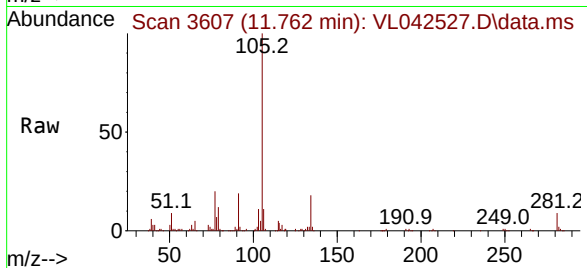




#67
 sec-Butylbenzene
 Concen: 0.909 ppbv
 RT: 11.762 min Scan# 3607
 Delta R.T. 0.003 min
 Lab File: VL042527.D
 Acq: 12 May 2025 10:07

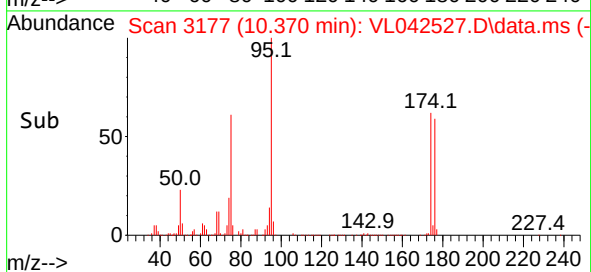
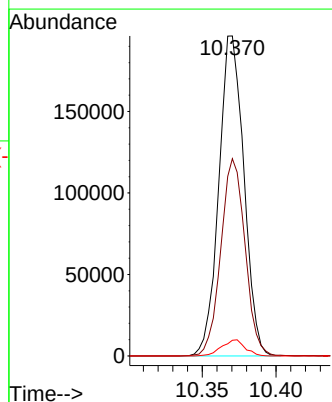
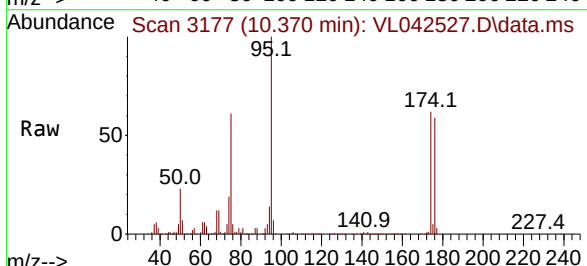
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

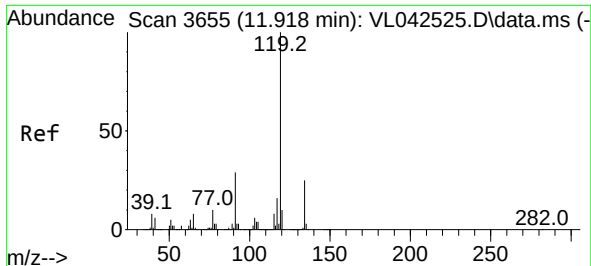
Tgt Ion:105 Resp: 56638
 Ion Ratio Lower Upper
 105 100
 134 17.2 14.9 22.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.029 ppbv
 RT: 10.370 min Scan# 3177
 Delta R.T. 0.006 min
 Lab File: VL042527.D
 Acq: 12 May 2025 10:07

Tgt Ion: 95 Resp: 231970
 Ion Ratio Lower Upper
 95 100
 174 59.8 48.0 72.0
 175 4.7 3.5 5.3

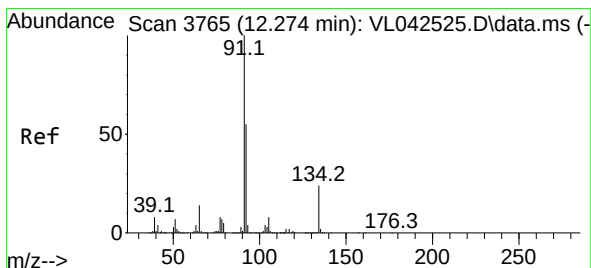
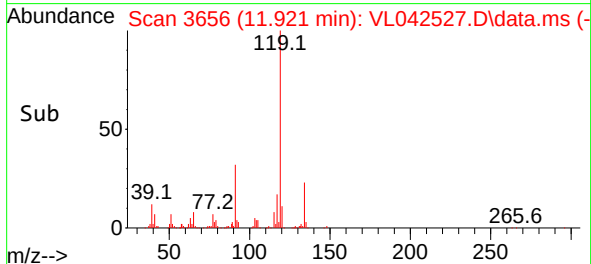
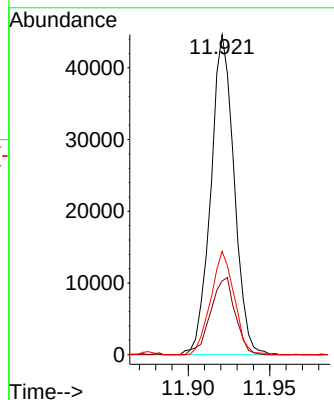
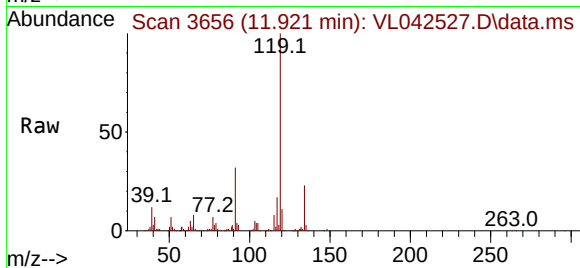




#69
 p-Isopropyltoluene
 Concen: 0.867 ppbv
 RT: 11.921 min Scan# 3656
 Delta R.T. 0.003 min
 Lab File: VL042527.D
 Acq: 12 May 2025 10:07

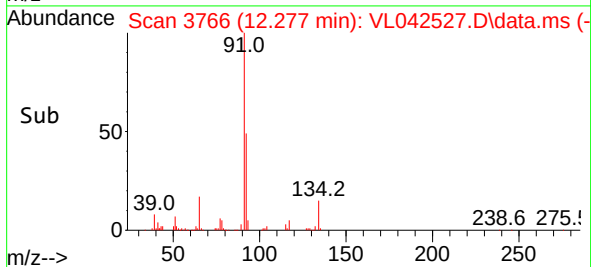
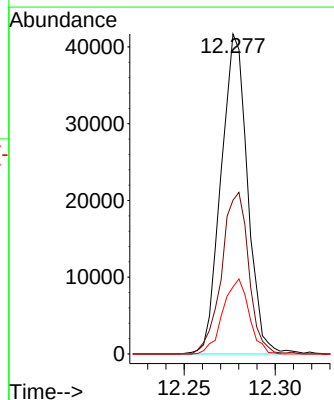
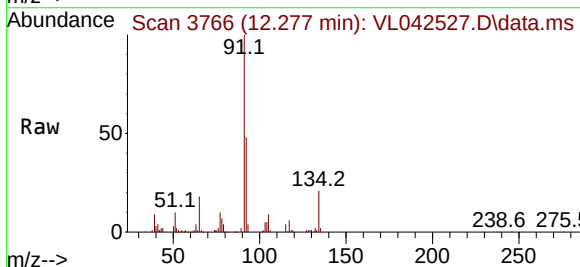
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

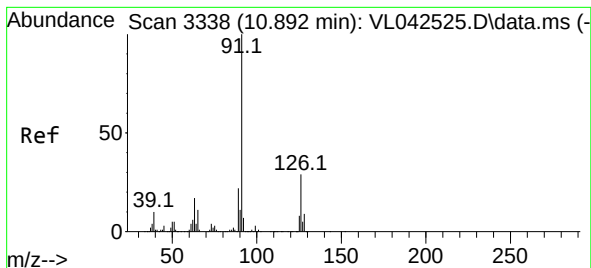
Tgt Ion:119 Resp: 44406
 Ion Ratio Lower Upper
 119 100
 134 25.4 19.8 29.6
 91 32.5 23.6 35.4



#70
 n-Butylbenzene
 Concen: 0.827 ppbv
 RT: 12.277 min Scan# 3766
 Delta R.T. 0.003 min
 Lab File: VL042527.D
 Acq: 12 May 2025 10:07

Tgt Ion: 91 Resp: 41878
 Ion Ratio Lower Upper
 91 100
 92 52.0 43.7 65.5
 134 23.2 18.9 28.3

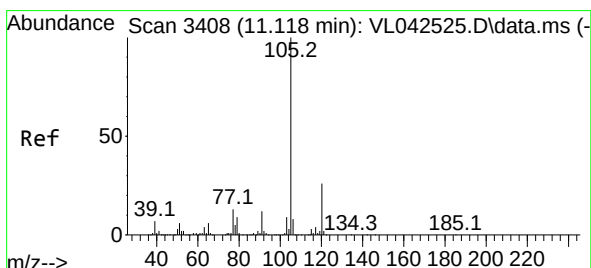
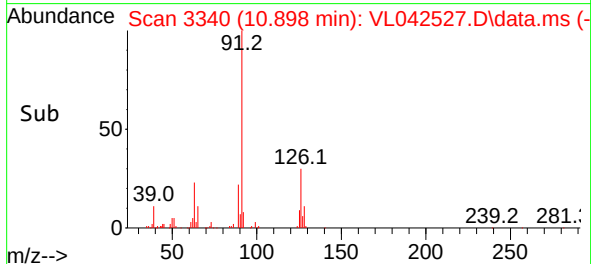
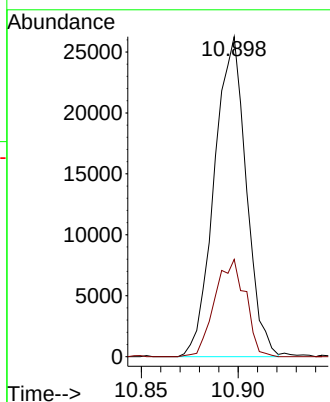
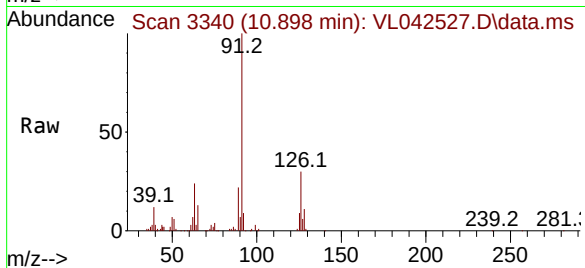




#71
2-Chlorotoluene
Concen: 0.839 ppbv
RT: 10.898 min Scan# 31
Delta R.T. 0.006 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

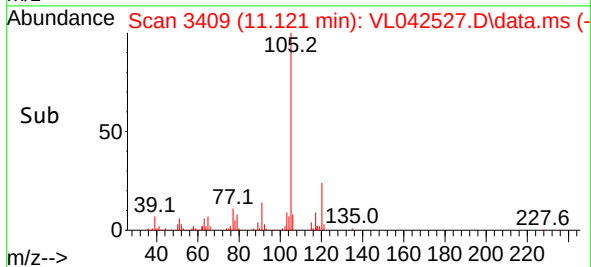
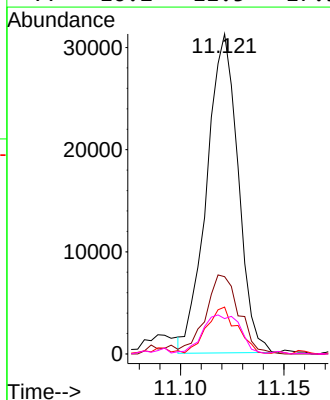
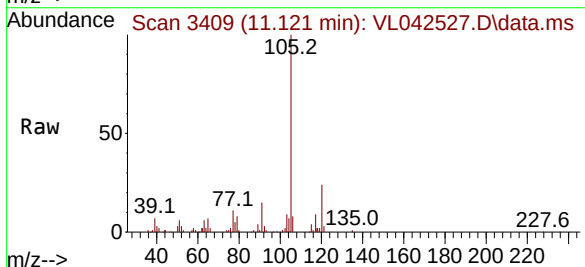
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

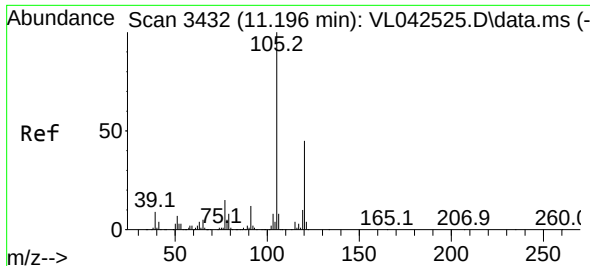
Tgt Ion: 91 Resp: 30070
Ion Ratio Lower Upper
91 100
126 29.3 11.4 45.6



#72
4-Ethyltoluene
Concen: 0.847 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. 0.003 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

Tgt Ion: 105 Resp: 33030
Ion Ratio Lower Upper
105 100
120 28.5 22.9 34.3
91 16.5 10.9 16.3#
77 16.2 11.5 17.3

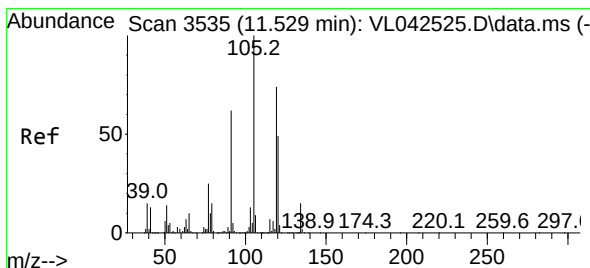
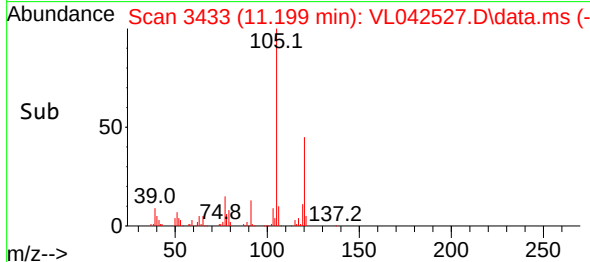
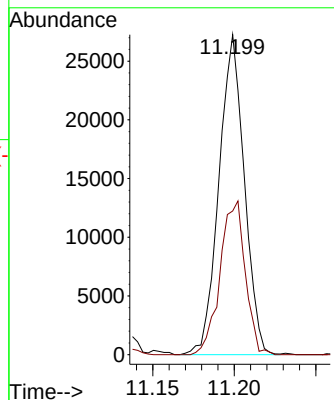
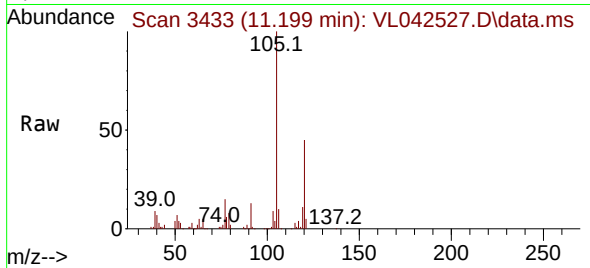




#73
 1,3,5-Trimethylbenzene
 Concen: 0.867 ppbv
 RT: 11.199 min Scan# 3433
 Delta R.T. 0.003 min
 Lab File: VL042527.D
 Acq: 12 May 2025 10:07

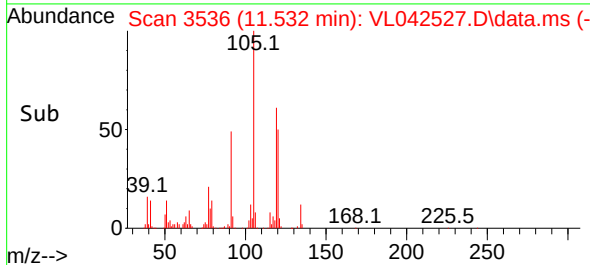
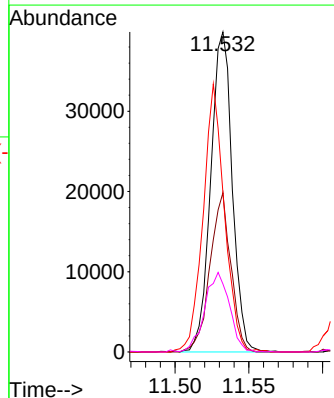
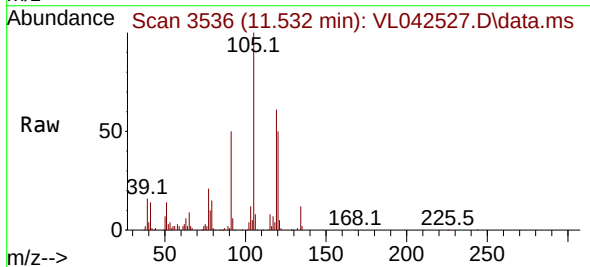
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

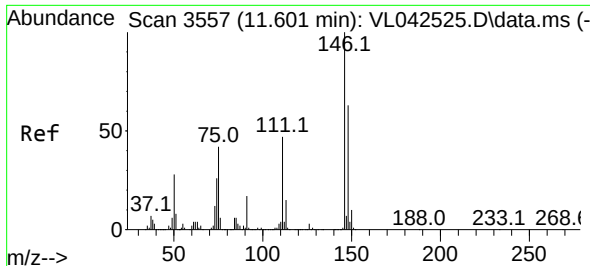
Tgt Ion:105 Resp: 29442
 Ion Ratio Lower Upper
 105 100
 120 44.9 36.0 54.0



#74
 1,2,4-Trimethylbenzene
 Concen: 0.970 ppbv
 RT: 11.532 min Scan# 3536
 Delta R.T. 0.003 min
 Lab File: VL042527.D
 Acq: 12 May 2025 10:07

Tgt Ion:105 Resp: 40544
 Ion Ratio Lower Upper
 105 100
 120 49.7 39.0 58.6
 91 49.8 49.4 74.2
 77 21.2 19.8 29.6

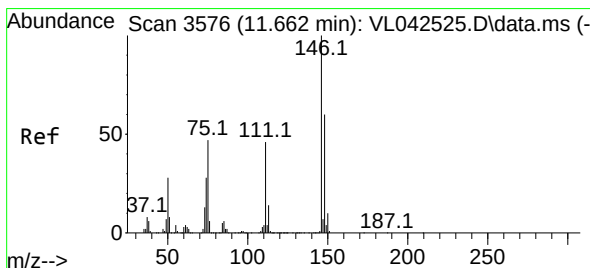
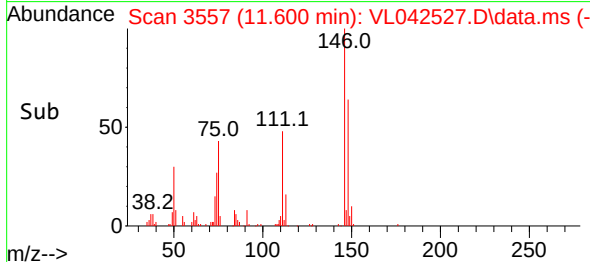
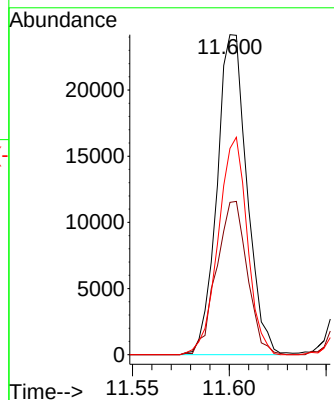
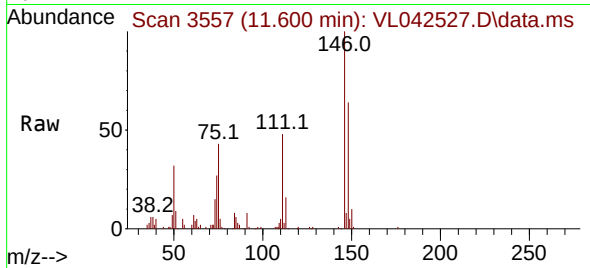




#75
1,3-Dichlorobenzene
Concen: 0.994 ppbv
RT: 11.600 min Scan# 3557
Delta R.T. -0.000 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

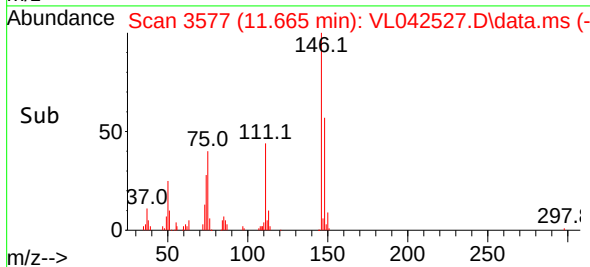
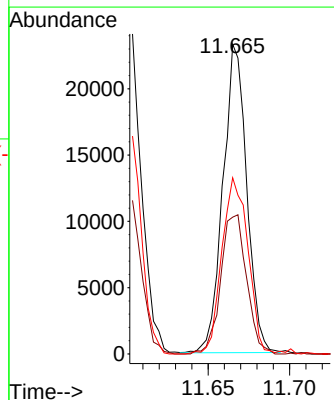
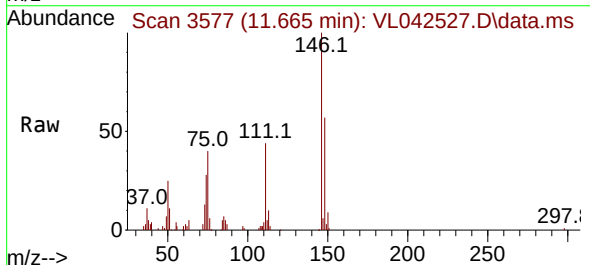
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

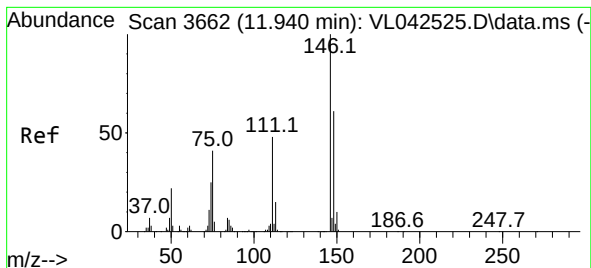
Tgt Ion:146 Resp: 26018
Ion Ratio Lower Upper
146 100
111 49.3 23.6 71.0
148 65.6 31.6 94.8



#76
1,4-Dichlorobenzene
Concen: 0.947 ppbv
RT: 11.665 min Scan# 3577
Delta R.T. 0.003 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

Tgt Ion:146 Resp: 23564
Ion Ratio Lower Upper
146 100
111 49.1 23.4 70.3
148 63.4 31.6 94.7





#77

1,2-Dichlorobenzene

Concen: 0.998 ppbv

RT: 11.940 min Scan# 3

Delta R.T. -0.000 min

Lab File: VL042527.D

Acq: 12 May 2025 10:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

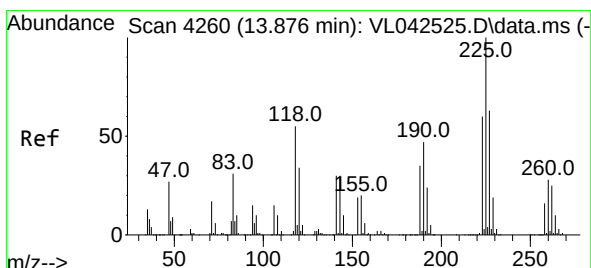
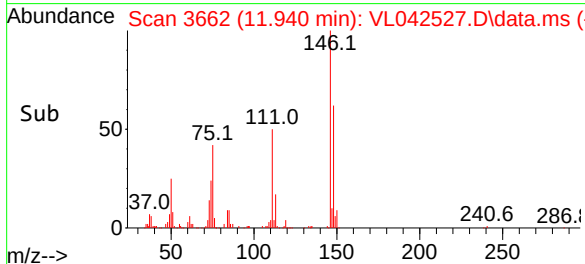
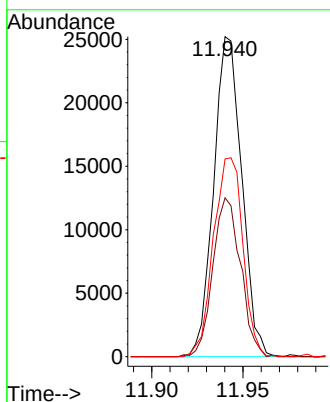
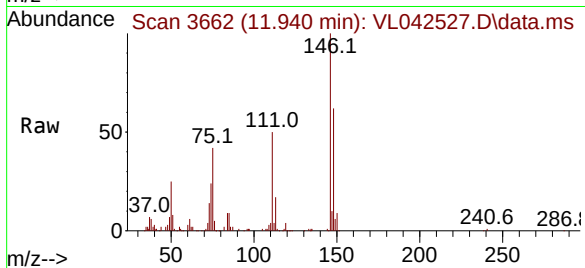
Tgt Ion:146 Resp: 26975

Ion Ratio Lower Upper

146 100

111 49.1 24.9 74.8

148 65.4 31.4 94.2



#78

Hexachloro-1,3-Butadiene

Concen: 1.028 ppbv

RT: 13.879 min Scan# 4261

Delta R.T. 0.003 min

Lab File: VL042527.D

Acq: 12 May 2025 10:07

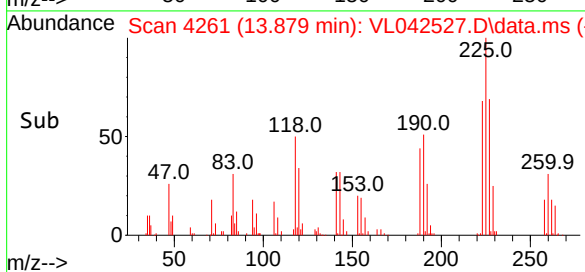
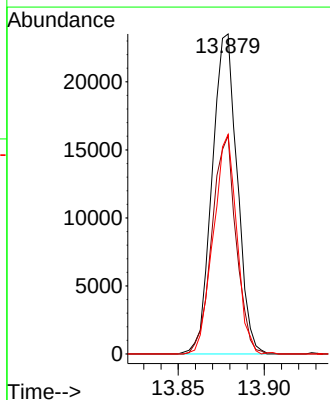
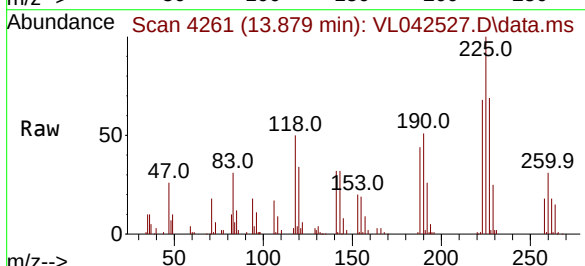
Tgt Ion:225 Resp: 23824

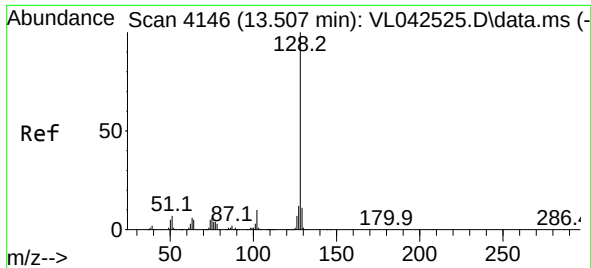
Ion Ratio Lower Upper

225 100

223 65.5 50.8 76.2

227 64.1 50.5 75.7

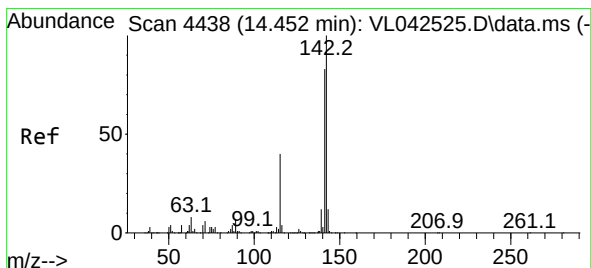
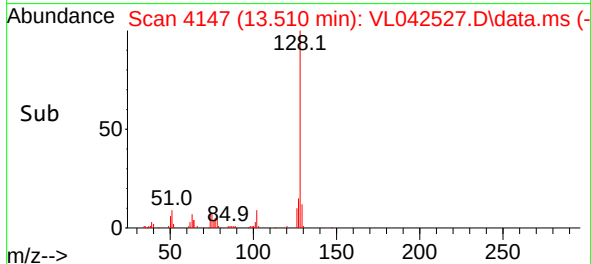
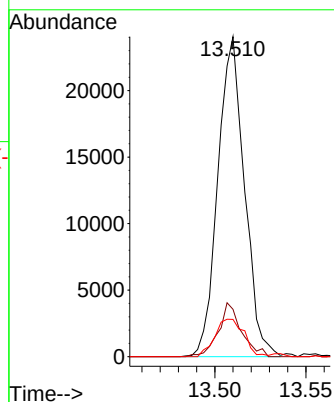
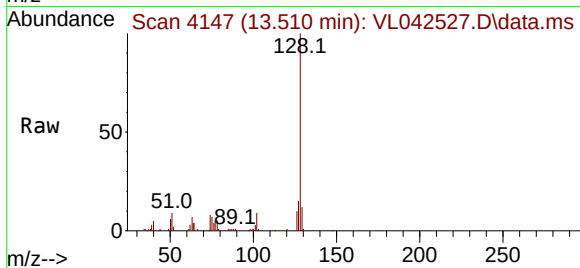




#79
Naphthalene
Concen: 0.846 ppbv
RT: 13.510 min Scan# 4146
Delta R.T. 0.003 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

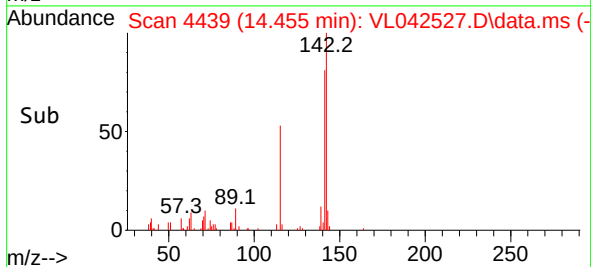
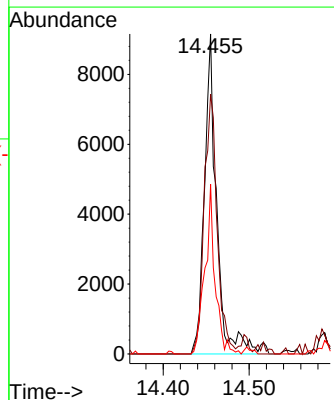
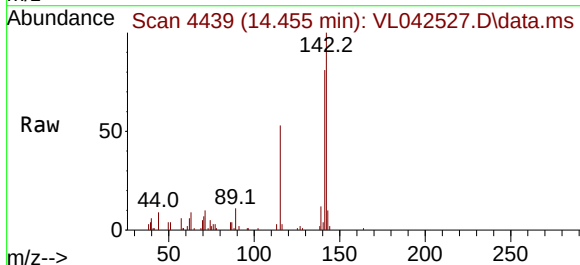
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

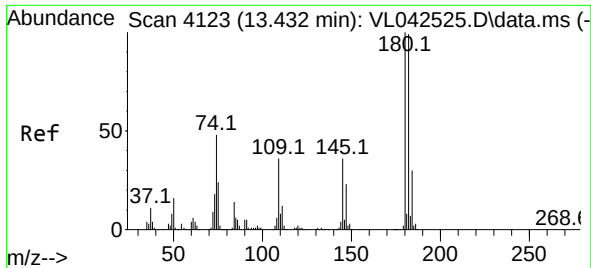
Tgt Ion:128 Resp: 24409
Ion Ratio Lower Upper
128 100
127 14.8 9.8 14.8#
129 11.7 8.6 12.8



#80
Naphthalene,2-methyl-
Concen: 0.541 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. 0.003 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

Tgt Ion:142 Resp: 9088
Ion Ratio Lower Upper
142 100
141 85.9 66.8 100.2
115 44.2 33.0 49.6





#81

1,2,4-Trichlorobenzene

Concen: 0.829 ppbv

RT: 13.436 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042527.D

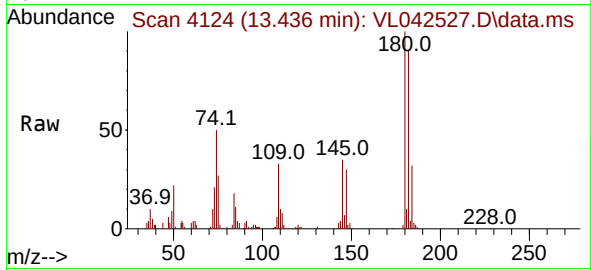
Acq: 12 May 2025 10:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001



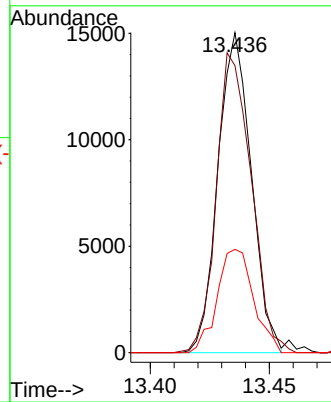
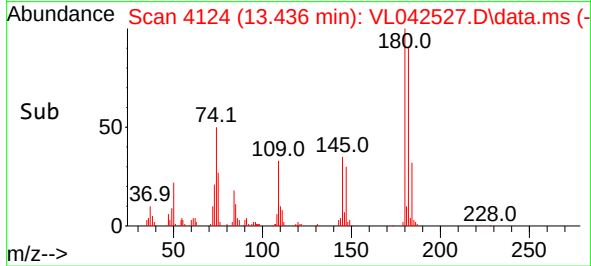
Tgt Ion:180 Resp: 14600

Ion Ratio Lower Upper

180 100

182 98.0 76.6 114.8

184 35.3 24.6 36.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051225\
 Data File : VL042528.D
 Acq On : 12 May 2025 10:41
 Operator : SY/MD
 Sample : VSTDIC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Quant Time: May 12 23:47:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Mon May 12 23:42:45 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.777	49	103645	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.946	114	291247	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	246447	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.367	95	217536	10.145	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.400%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.492	85	9514	0.565	ppbv	99
3) Chlorodifluoromethane	1.470	51	8566	0.499	ppbv	95
4) Chloromethane	1.528	50	3614	0.526	ppbv #	85
5) Vinyl Chloride	1.573	62	3669	0.522	ppbv	89
6) Bromomethane	1.661	94	1851	0.555	ppbv	88
7) Chloroethane	1.696	64	1420	0.513	ppbv #	78
8) Dichlorotetrafluoroethane	1.550	85	8379	0.579	ppbv	88
9) Propene	1.479	41	2647	0.711	ppbv #	1
10) Heptane	4.955	43	2051	0.144	ppbv #	1
11) Trichlorofluoromethane	1.871	101	8790	0.543	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.130	101	7332	0.564	ppbv	98
13) Ethanol	1.719	45	696	0.684	ppbv	68
14) Bromoethene	1.774	108	2341	0.494	ppbv #	92
15) Acetone	1.832	43	10090	0.609	ppbv	98
16) 1,3-Butadiene	1.602	39	4136	0.555	ppbv	92
17) tert-Butyl alcohol	2.036	59	8145	0.532	ppbv	96
18) 1,1-Dichloroethene	2.334	96	3615	0.634	ppbv	83
19) Isopropyl Alcohol	1.881	45	5254	0.584	ppbv #	98
20) Methylene Chloride	2.055	84	3987	0.691	ppbv #	74
21) Allyl Chloride	2.091	41	5485	0.500	ppbv #	84
22) trans-1,2-Dichloroethene	2.334	96	3615	0.542	ppbv	95
23) Vinyl Acetate	2.453	43	9366	0.540	ppbv #	91
24) 1,1-Dichloroethane	2.402	63	6774	0.525	ppbv	99
25) Ethyl Acetate	2.832	43	11446	0.394	ppbv #	94
26) Hexane	2.819	57	4939	0.414	ppbv #	78
27) Carbon Disulfide	2.143	76	7953	0.516	ppbv #	1
28) Methyl tert-Butyl Ether	2.434	73	3573	0.539	ppbv #	87
29) Chloroform	2.842	83	13265	0.536	ppbv	87
30) Cyclohexane	3.845	84	1372	0.140	ppbv #	1
31) cis-1,2-Dichloroethene	2.712	61	6890	0.511	ppbv	89
32) 1,1,1-Trichloroethane	3.353	97	12360	0.495	ppbv	95
34) 2-Butanone	2.554	43	9997	0.521	ppbv	93
35) Carbon Tetrachloride	3.748	117	9197	0.351	ppbv	96
36) Benzene	3.645	78	12733	0.493	ppbv #	94
37) 1,2-Dichloroethane	3.208	62	9449	0.513	ppbv	98
38) Trichloroethene	4.551	130	449	0.041	ppbv	85
39) 1,2-Dichloropropane	4.298	63	2654	0.276	ppbv #	79
40) 1,4-Dioxane	4.577	88	194	0.051	ppbv #	22
41) Tetrahydrofuran	3.052	42	1405	0.170	ppbv #	30
42) Bromodichloromethane	4.483	83	4904	0.200	ppbv	92
43) Methyl Methacrylate	4.862	69	1408	0.163	ppbv #	1
44) 2,2,4-Trimethylpentane	4.625	57	17301	0.427	ppbv	92
45) t-1,3-Dichloropropene	6.389	75	1988	0.181	ppbv #	80

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051225\
 Data File : VL042528.D
 Acq On : 12 May 2025 10:41
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

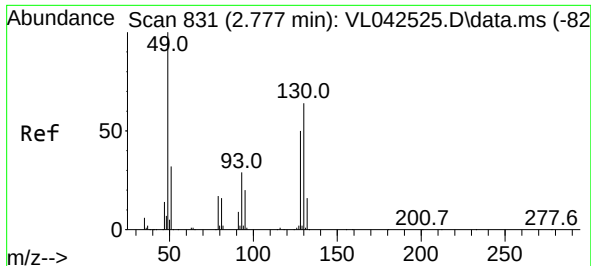
Quant Time: May 12 23:47:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Mon May 12 23:42:45 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.580	75	2611	0.197	ppbv #	61
47) 1,1,2-Trichloroethane	6.564	97	2915	0.258	ppbv #	45
48) Dibromochloromethane	7.370	129	5839	0.309	ppbv #	54
49) Bromoform	9.474	173	7130	0.460	ppbv	98
50) 4-Methyl-2-Pentanone	5.742	43	2980	0.132	ppbv #	1
51) 2-Hexanone	7.428	43	4380	0.262	ppbv #	83
52) Tetrachloroethene	8.208	164	4637	0.466	ppbv	97
53) Toluene	6.920	91	2481	0.098	ppbv #	1
54) 1,2-Dibromoethane	7.635	107	6271	0.379	ppbv	83
56) 1,1,1,2-Tetrachloroethane	8.917	131	8150	0.533	ppbv #	1
57) Chlorobenzene	8.907	112	12888	0.521	ppbv #	94
58) Ethyl Benzene	9.348	91	12895	0.384	ppbv	100
59) m/p-Xylene	9.545	91	5454	0.183	ppbv #	100
60) o-Xylene	9.950	91	9883	0.339	ppbv	96
61) Styrene	9.859	104	3566	0.332	ppbv	92
62) Isopropylbenzene	10.532	105	16603	0.378	ppbv	97
63) 1,1,2,2-Tetrachloroethane	9.956	83	11693	0.501	ppbv	99
64) n-propylbenzene	10.985	120	3758	0.338	ppbv	85
65) tert-Butylbenzene	11.523	119	13867	0.344	ppbv #	95
66) Benzyl Chloride	11.610	91	1111	0.208	ppbv #	69
67) sec-Butylbenzene	11.762	105	21235	0.368	ppbv	100
69) p-Isopropyltoluene	11.917	119	15071	0.317	ppbv #	90
70) n-Butylbenzene	12.277	91	15321	0.326	ppbv	95
71) 2-Chlorotoluene	10.895	91	13426	0.404	ppbv	94
72) 4-Ethyltoluene	11.115	105	12284	0.340	ppbv #	93
73) 1,3,5-Trimethylbenzene	11.199	105	6102	0.194	ppbv	88
74) 1,2,4-Trimethylbenzene	11.529	105	13113	0.339	ppbv	96
75) 1,3-Dichlorobenzene	11.600	146	10683	0.440	ppbv	94
76) 1,4-Dichlorobenzene	11.662	146	9591	0.416	ppbv	98
77) 1,2-Dichlorobenzene	11.940	146	12272	0.490	ppbv	99
78) Hexachloro-1,3-Butadiene	13.876	225	11535	0.537	ppbv	96
79) Naphthalene	13.503	128	8133	0.304	ppbv #	92
80) Naphthalene,2-methyl-	14.448	142	2920	0.188	ppbv #	90
81) 1,2,4-Trichlorobenzene	13.435	180	5016	0.307	ppbv	96

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

Quant Time: May 12 23:47:58 2025
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QLast Update : Mon May 12 23:42:45 2025
Response via : Initial Calibration

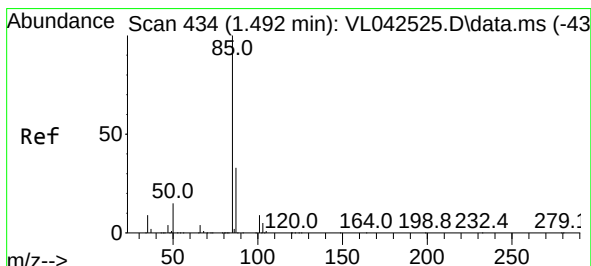
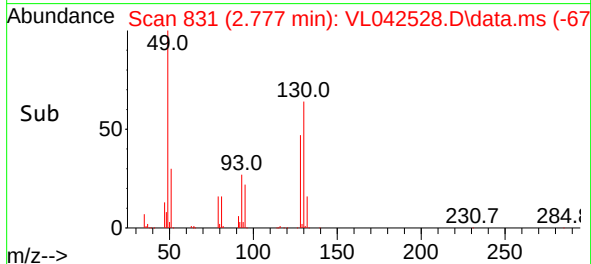
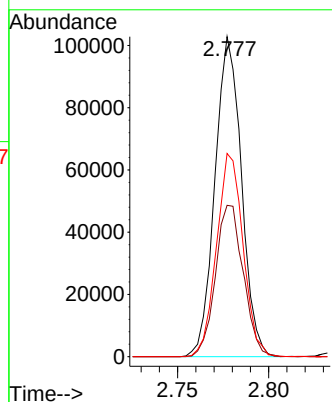
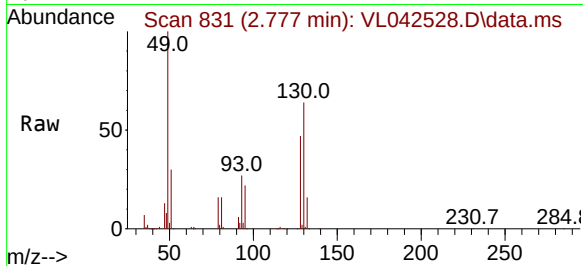




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.777 min Scan# 831
Delta R.T. 0.000 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

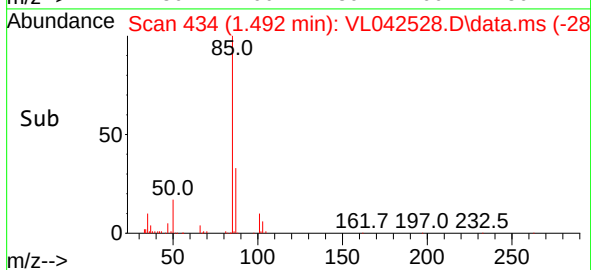
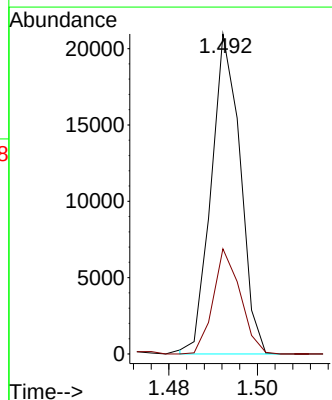
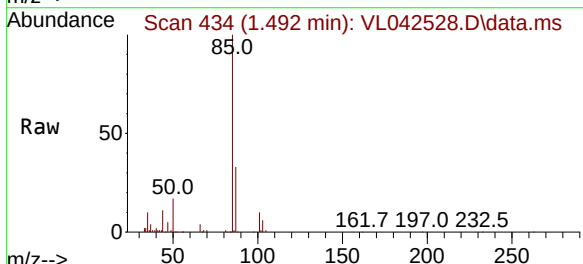
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

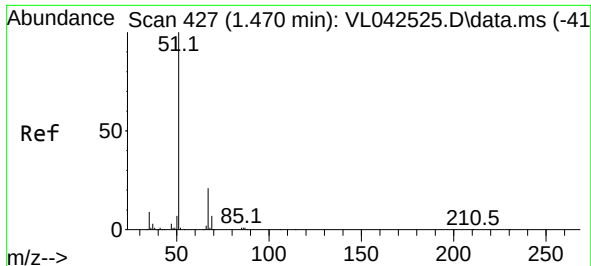
Tgt Ion: 49 Resp: 103645
Ion Ratio Lower Upper
49 100
128 49.7 24.9 74.6
130 63.7 32.5 97.5



#2
Dichlorodifluoromethane
Concen: 0.565 ppbv
RT: 1.492 min Scan# 434
Delta R.T. -0.000 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

Tgt Ion: 85 Resp: 9514
Ion Ratio Lower Upper
85 100
87 32.9 26.8 40.2

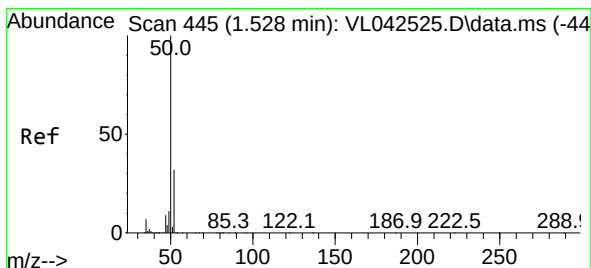
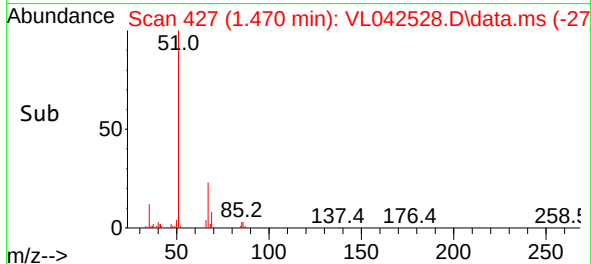
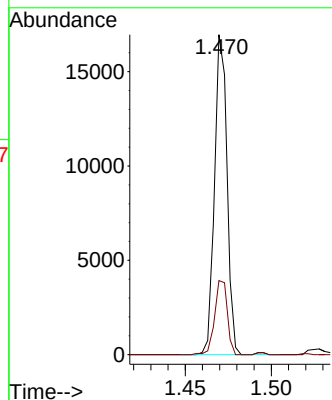
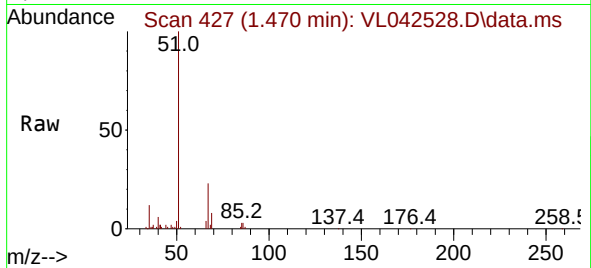




#3
Chlorodifluoromethane
Concen: 0.499 ppbv
RT: 1.470 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

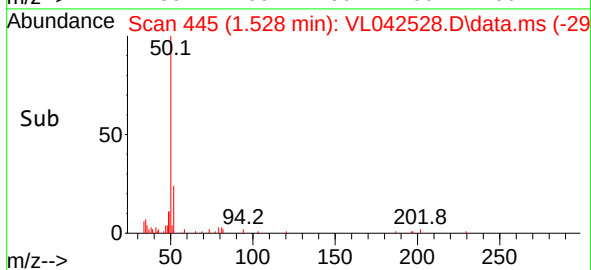
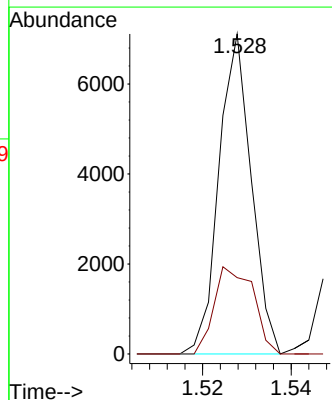
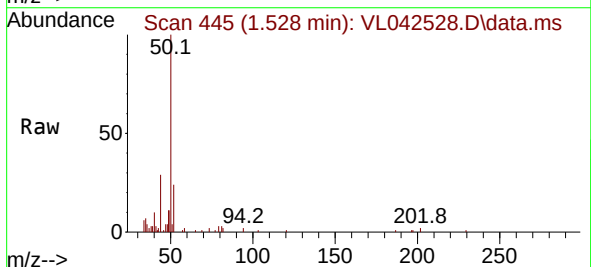
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

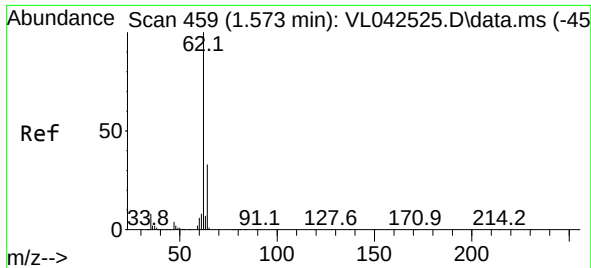
Tgt Ion: 51 Resp: 8566
Ion Ratio Lower Upper
51 100
67 23.9 17.4 26.0



#4
Chloromethane
Concen: 0.526 ppbv
RT: 1.528 min Scan# 445
Delta R.T. -0.000 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

Tgt Ion: 50 Resp: 3614
Ion Ratio Lower Upper
50 100
52 23.9 25.9 38.9#

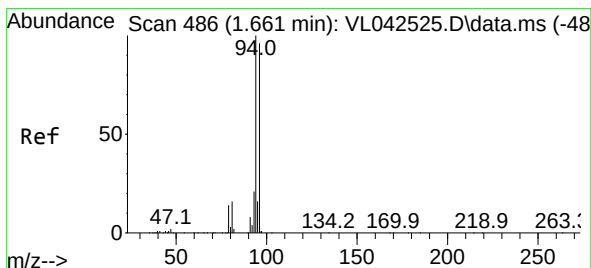
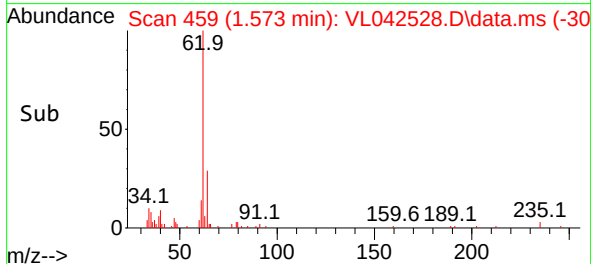
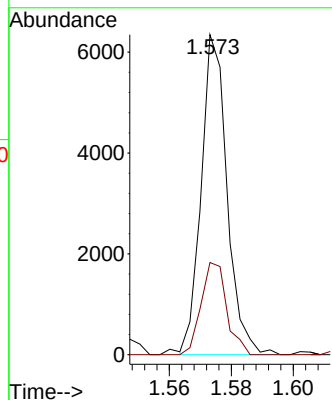
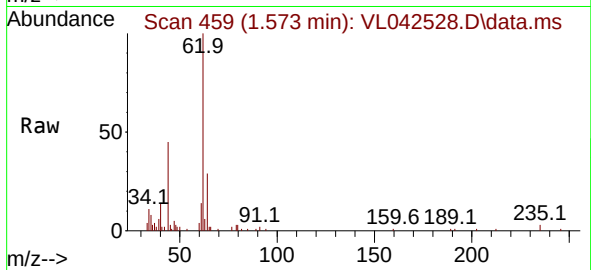




#5
 Vinyl Chloride
 Concen: 0.522 ppbv
 RT: 1.573 min Scan# 459
 Delta R.T. -0.000 min
 Lab File: VL042528.D
 Acq: 12 May 2025 10:41

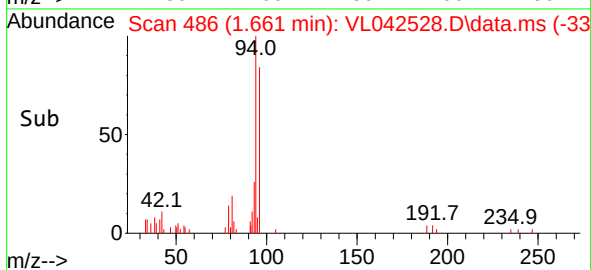
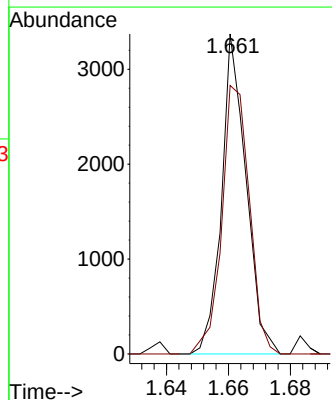
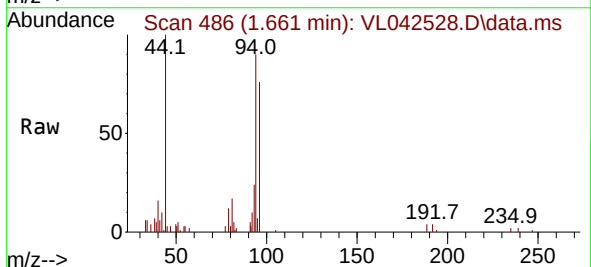
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

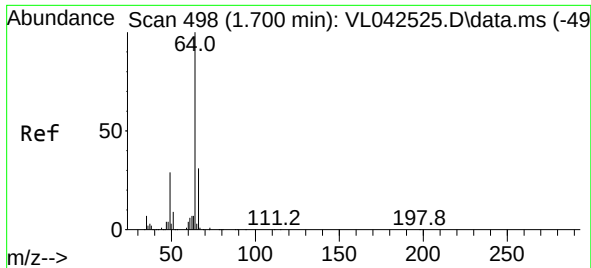
Tgt Ion: 62 Resp: 3669
 Ion Ratio Lower Upper
 62 100
 64 27.1 26.5 39.7



#6
 Bromomethane
 Concen: 0.555 ppbv
 RT: 1.661 min Scan# 486
 Delta R.T. -0.000 min
 Lab File: VL042528.D
 Acq: 12 May 2025 10:41

Tgt Ion: 94 Resp: 1851
 Ion Ratio Lower Upper
 94 100
 96 83.9 76.9 115.3

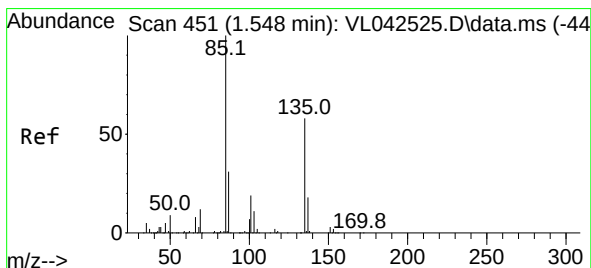
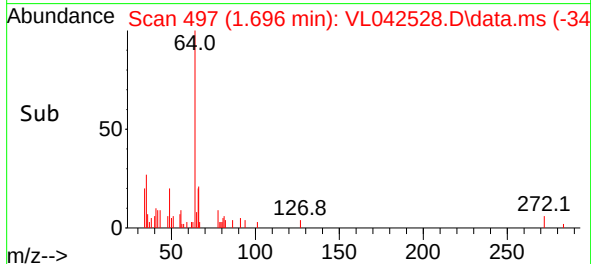
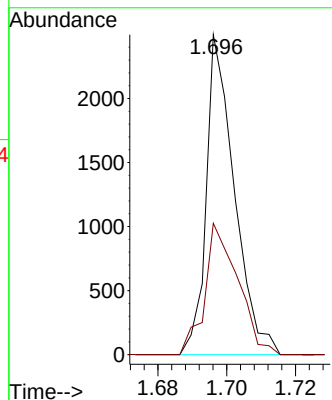
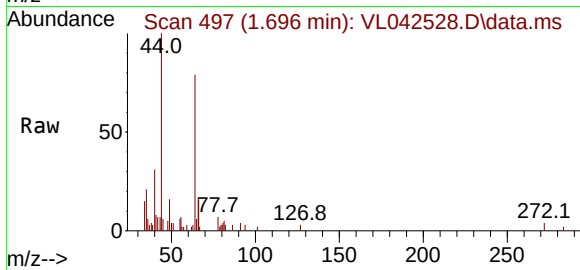




#7
Chloroethane
Concen: 0.513 ppbv
RT: 1.696 min Scan# 498
Delta R.T. -0.004 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

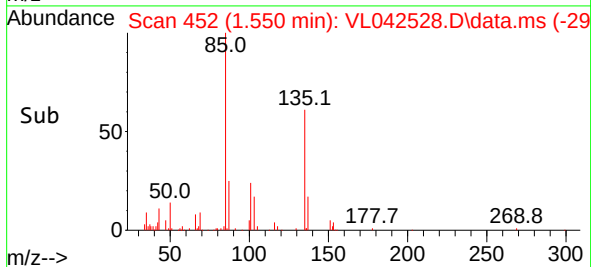
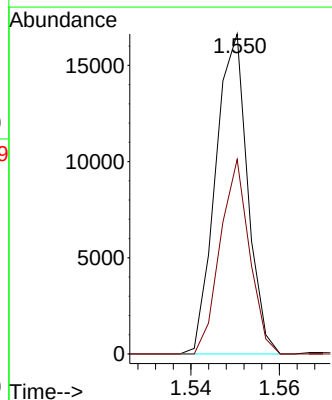
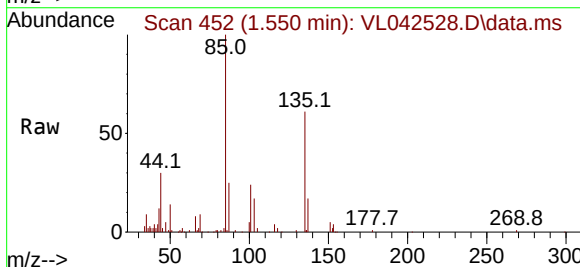
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

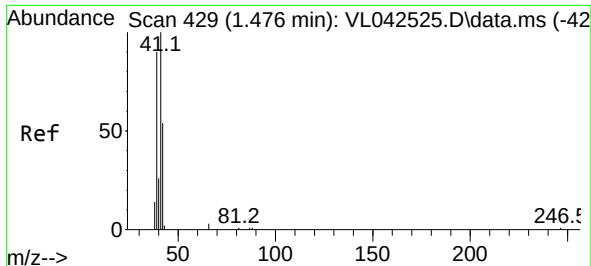
Tgt Ion: 64 Resp: 1420
Ion Ratio Lower Upper
64 100
66 43.6 25.1 37.7#



#8
Dichlorotetrafluoroethane
Concen: 0.579 ppbv
RT: 1.550 min Scan# 452
Delta R.T. 0.003 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

Tgt Ion: 85 Resp: 8379
Ion Ratio Lower Upper
85 100
135 55.5 51.8 77.8





#9

Propene

Concen: 0.711 ppbv

RT: 1.479 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042528.D

Acq: 12 May 2025 10:41

Instrument :

MSVOA_1

ClientSampleId :

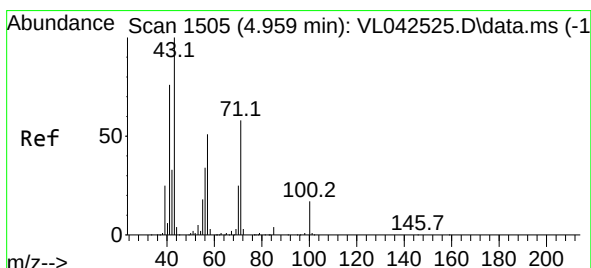
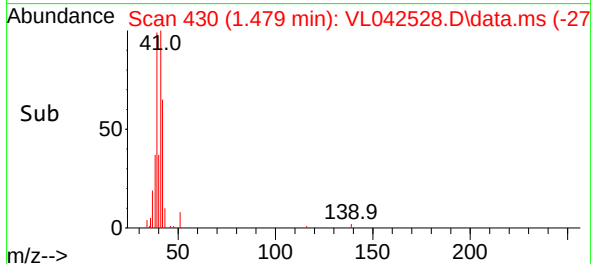
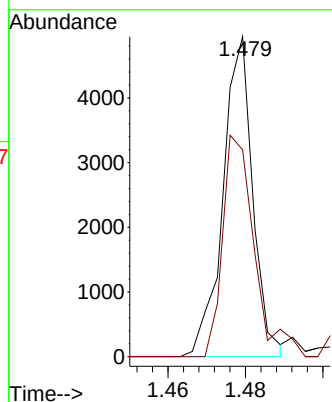
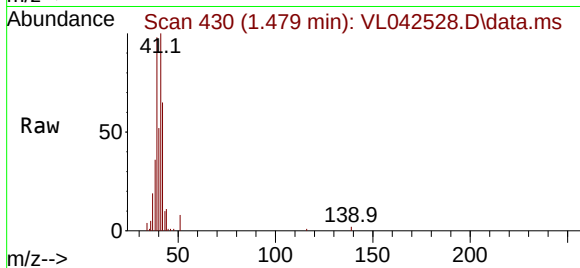
VSTDIC0.5

Tgt Ion: 41 Resp: 2647

Ion Ratio Lower Upper

41 100

42 88.5 4.1 6.1#



#10

Heptane

Concen: 0.144 ppbv

RT: 4.955 min Scan# 1504

Delta R.T. -0.004 min

Lab File: VL042528.D

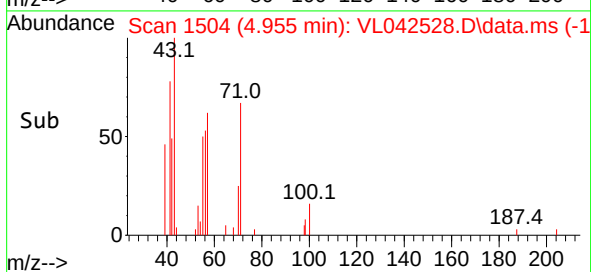
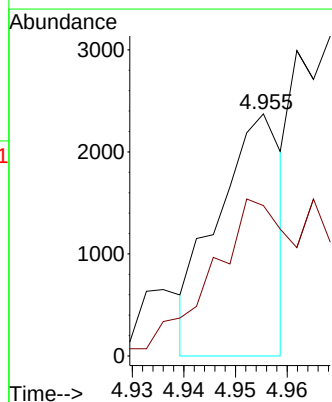
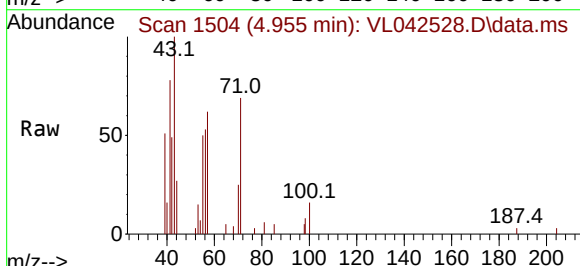
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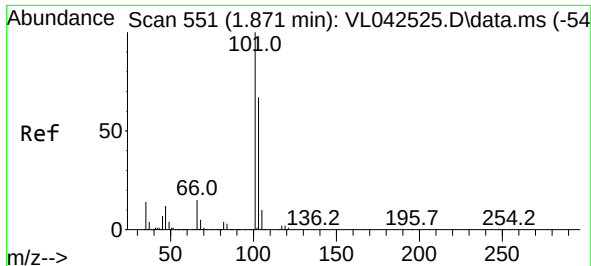
Tgt Ion: 43 Resp: 2051

Ion Ratio Lower Upper

43 100

57 146.7 42.1 63.1#

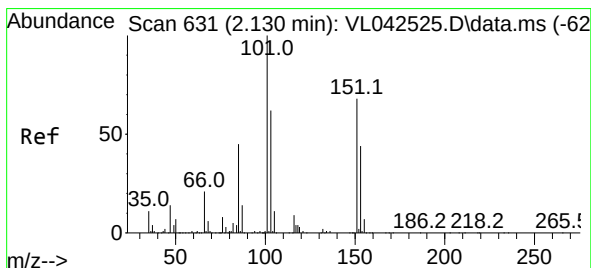
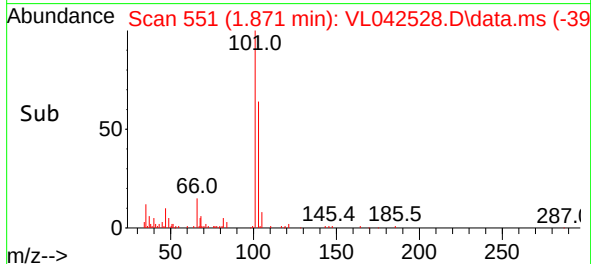
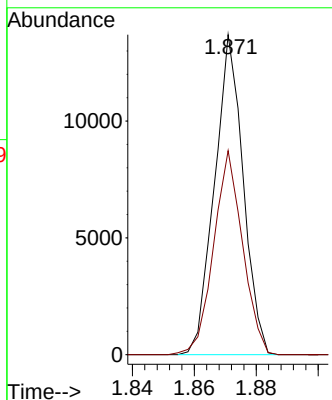
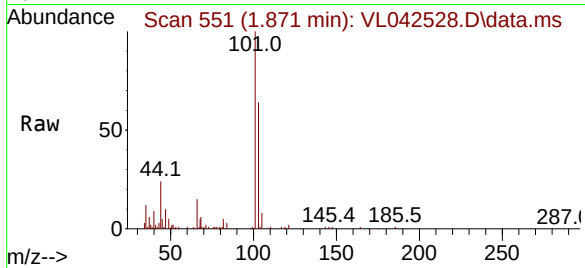




#11
 Trichlorofluoromethane
 Concen: 0.543 ppbv
 RT: 1.871 min Scan# 551
 Delta R.T. -0.000 min
 Lab File: VL042528.D
 Acq: 12 May 2025 10:41

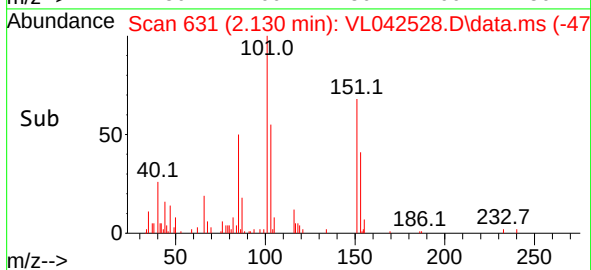
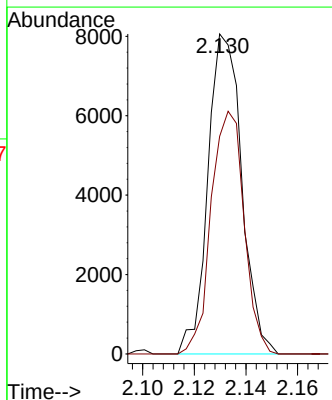
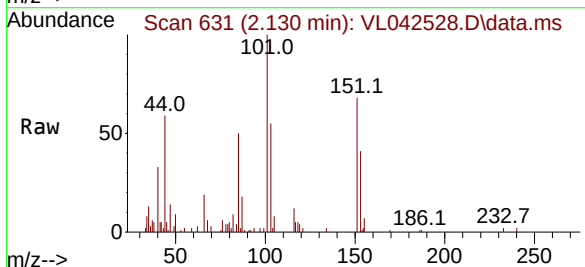
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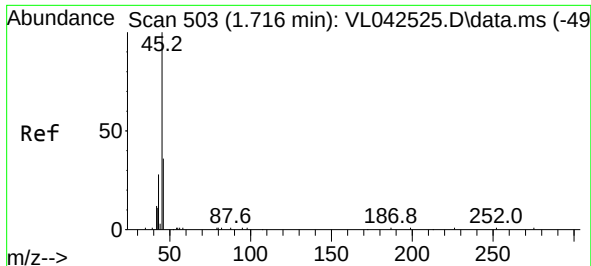
Tgt Ion:101 Resp: 8790
 Ion Ratio Lower Upper
 101 100
 103 63.8 53.8 80.6



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.564 ppbv
 RT: 2.130 min Scan# 631
 Delta R.T. -0.000 min
 Lab File: VL042528.D
 Acq: 12 May 2025 10:41

Tgt Ion:101 Resp: 7332
 Ion Ratio Lower Upper
 101 100
 151 73.7 57.8 86.8

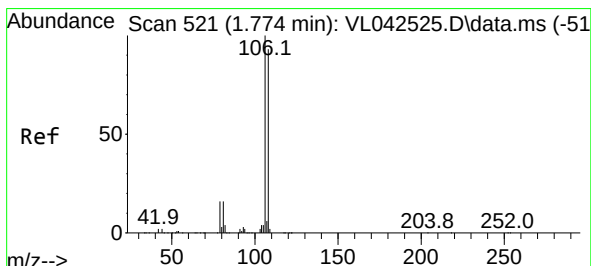
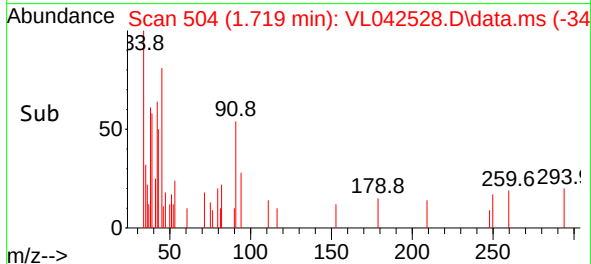
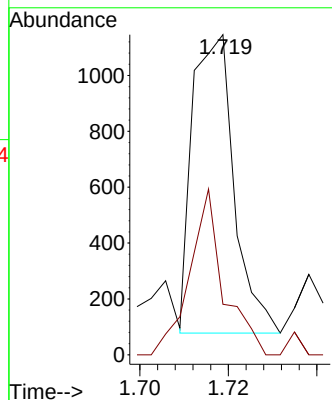
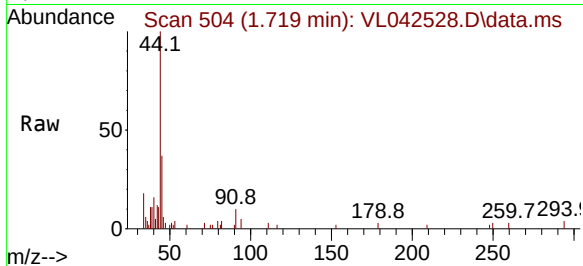




#13
Ethanol
Concen: 0.684 ppbv
RT: 1.719 min Scan# 503
Delta R.T. 0.003 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

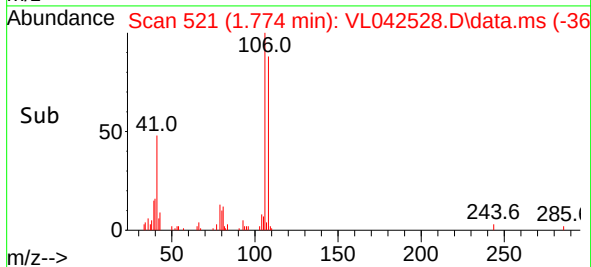
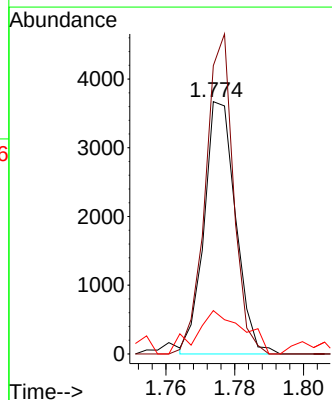
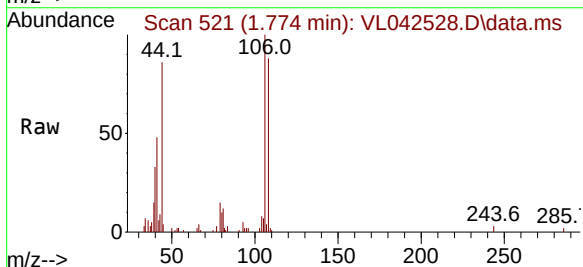
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ClientSampleId :
VSTDICC0.5

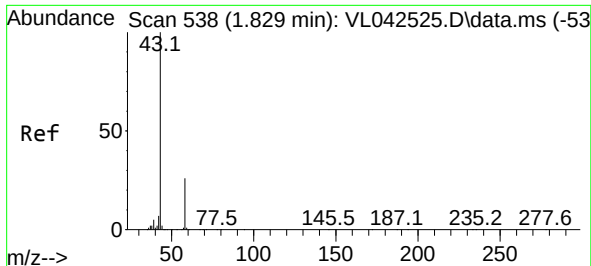
Tgt Ion: 45 Resp: 696
Ion Ratio Lower Upper
45 100
46 56.3 14.8 59.4



#14
Bromoethene
Concen: 0.494 ppbv
RT: 1.774 min Scan# 521
Delta R.T. -0.000 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

Tgt Ion: 108 Resp: 2341
Ion Ratio Lower Upper
108 100
106 112.1 87.4 131.2
79 37.6 15.1 22.7#

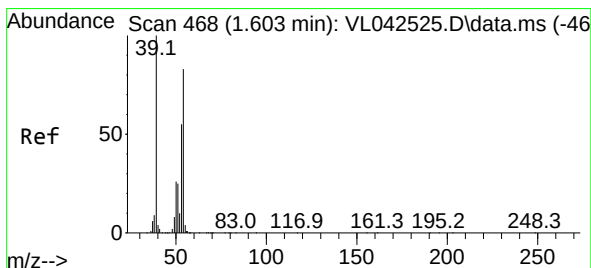
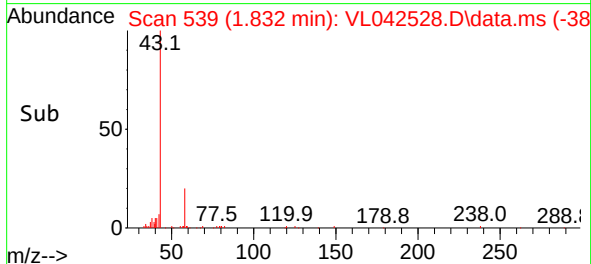
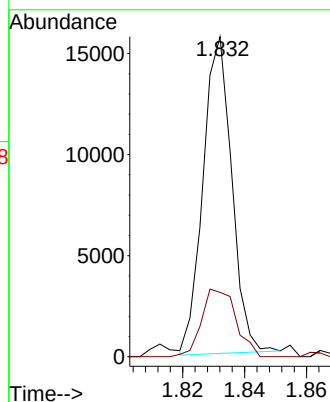
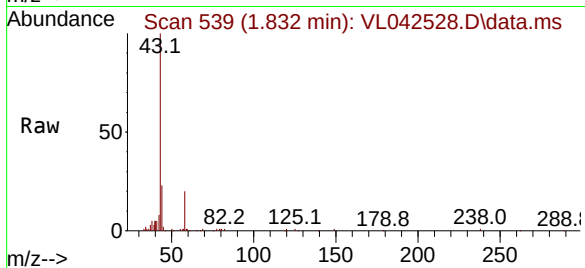




#15
Acetone
Concen: 0.609 ppbv
RT: 1.832 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

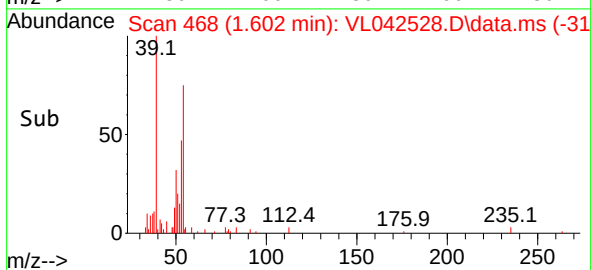
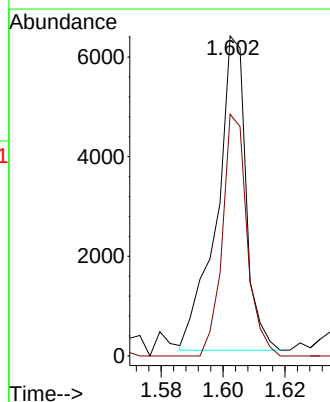
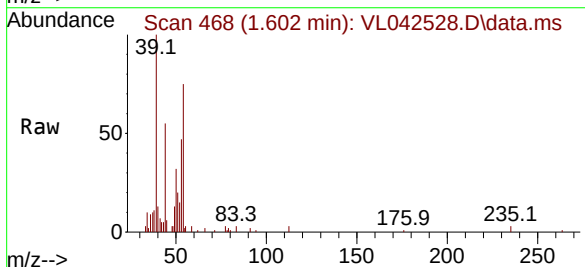
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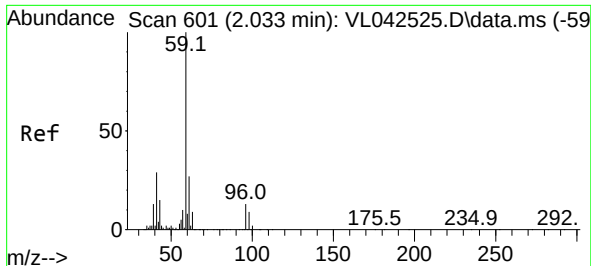
Tgt Ion: 43 Resp: 10090
Ion Ratio Lower Upper
43 100
58 25.8 21.3 31.9



#16
1,3-Butadiene
Concen: 0.555 ppbv
RT: 1.602 min Scan# 468
Delta R.T. -0.000 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

Tgt Ion: 39 Resp: 4136
Ion Ratio Lower Upper
39 100
54 65.5 57.8 86.6





#17

tert-Butyl alcohol

Concen: 0.532 ppbv

RT: 2.036 min Scan# 601

Delta R.T. 0.003 min

Lab File: VL042528.D

Acq: 12 May 2025 10:41

Instrument :

MSVOA_1

ClientSampleId :

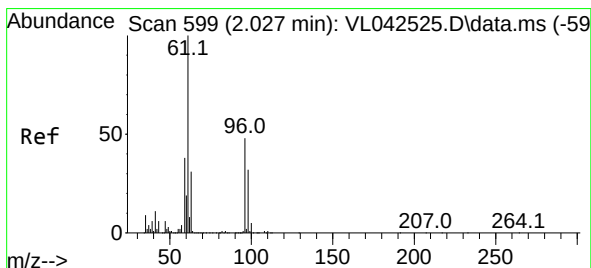
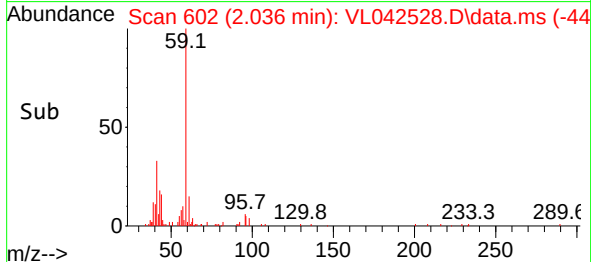
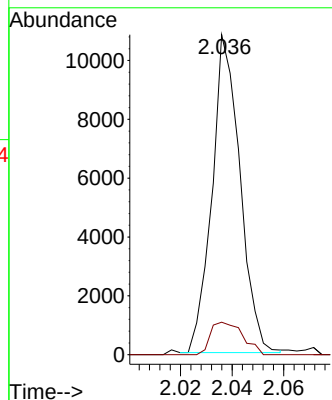
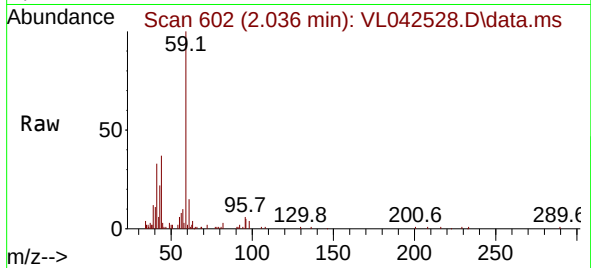
VSTDIC0.5

Tgt Ion: 59 Resp: 8145

Ion Ratio Lower Upper

59 100

57 11.8 8.2 12.4



#18

1,1-Dichloroethene

Concen: 0.634 ppbv

RT: 2.334 min Scan# 694

Delta R.T. 0.307 min

Lab File: VL042528.D

Acq: 12 May 2025 10:41

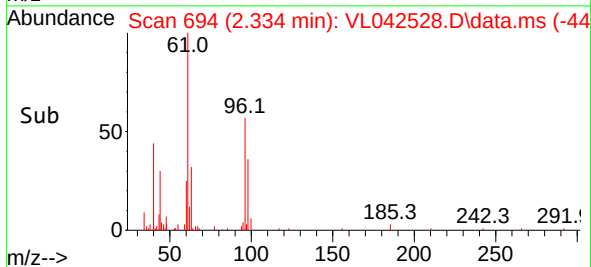
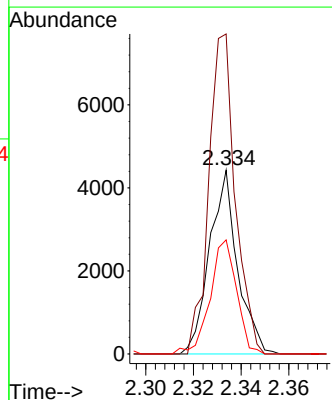
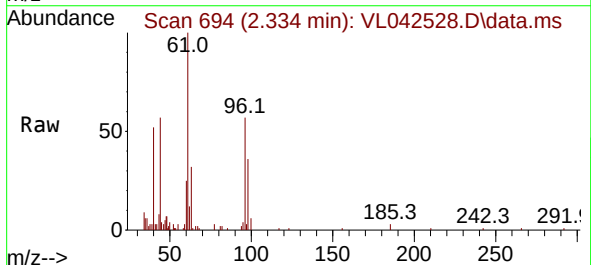
Tgt Ion: 96 Resp: 3615

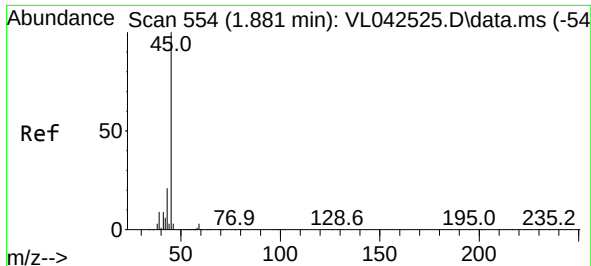
Ion Ratio Lower Upper

96 100

61 174.1 165.0 247.4

98 62.1 52.6 79.0

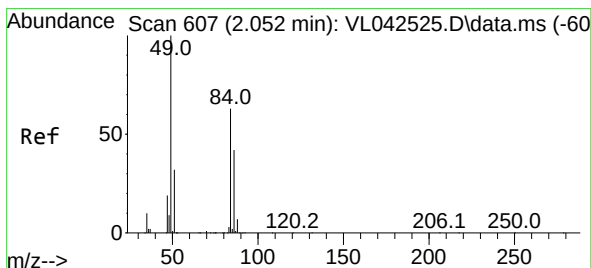
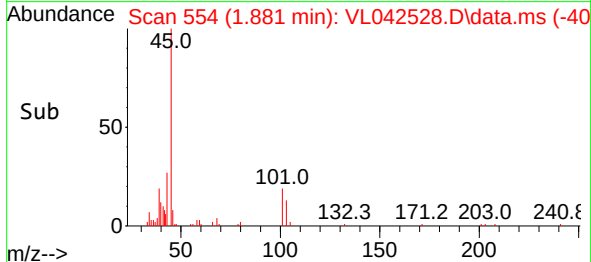
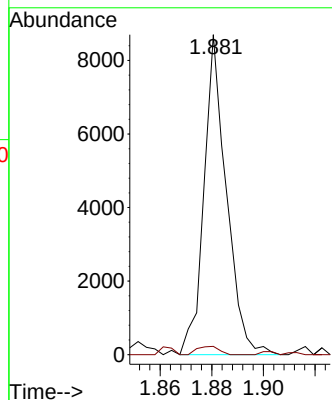
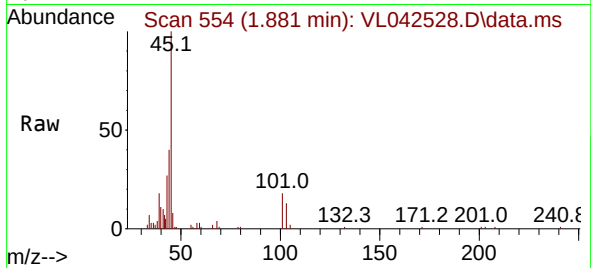




#19
Isopropyl Alcohol
Concen: 0.584 ppbv
RT: 1.881 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

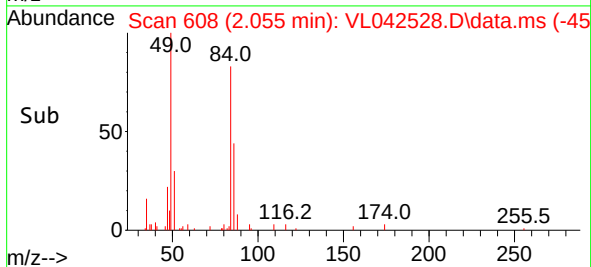
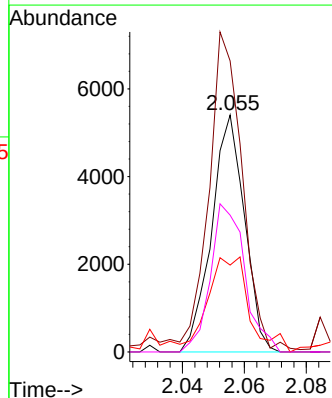
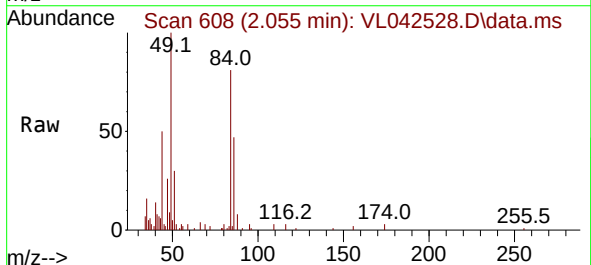
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

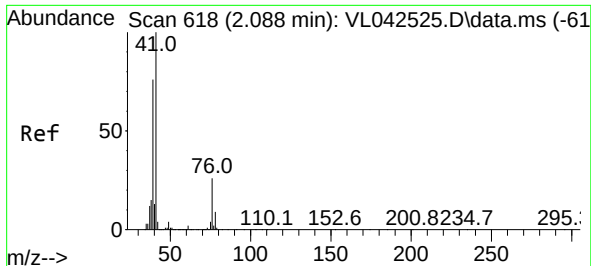
Tgt Ion: 45 Resp: 5254
Ion Ratio Lower Upper
45 100
58 2.6 1.5 2.3#



#20
Methylene Chloride
Concen: 0.691 ppbv
RT: 2.055 min Scan# 608
Delta R.T. 0.003 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

Tgt Ion: 84 Resp: 3987
Ion Ratio Lower Upper
84 100
49 118.7 128.2 192.4#
51 33.4 41.7 62.5#
86 57.7 52.6 79.0

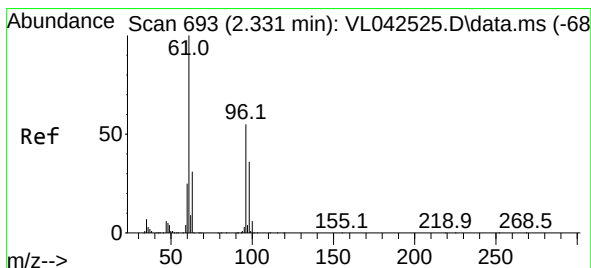
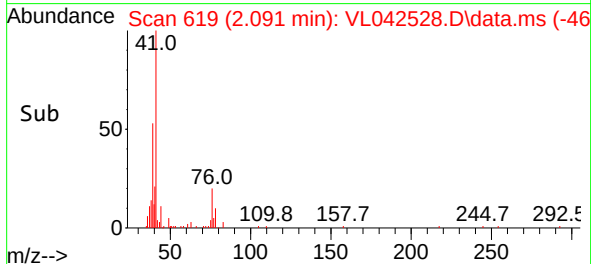
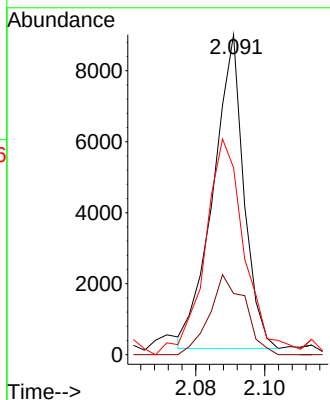
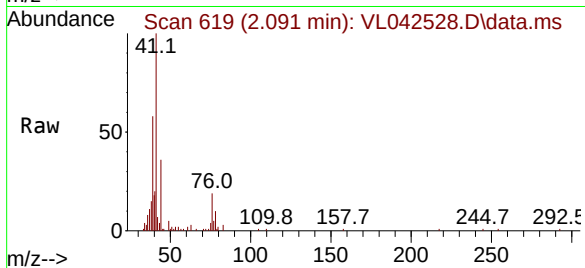




#21
 Allyl Chloride
 Concen: 0.500 ppbv
 RT: 2.091 min Scan# 618
 Delta R.T. 0.003 min
 Lab File: VL042528.D
 Acq: 12 May 2025 10:41

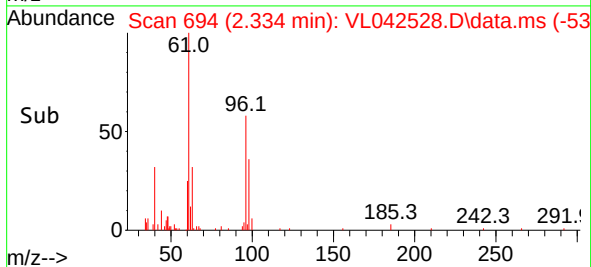
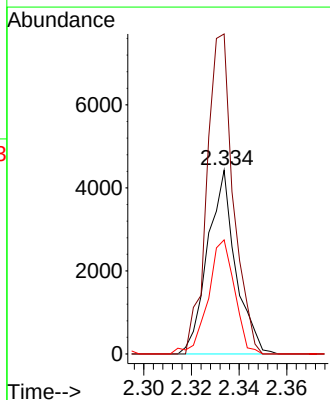
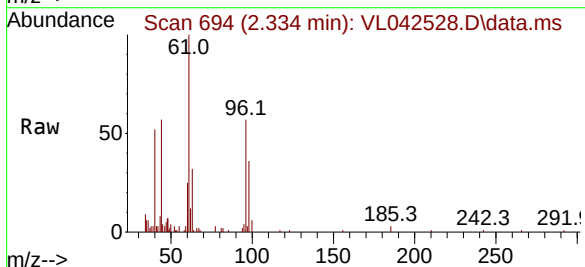
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

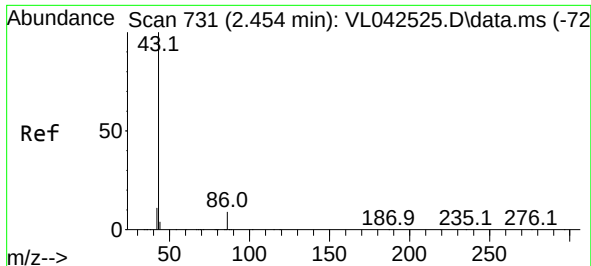
Tgt Ion: 41 Resp: 5485
 Ion Ratio Lower Upper
 41 100
 76 29.4 22.0 33.0
 39 91.8 59.5 89.3#



#22
 trans-1,2-Dichloroethene
 Concen: 0.542 ppbv
 RT: 2.334 min Scan# 694
 Delta R.T. 0.003 min
 Lab File: VL042528.D
 Acq: 12 May 2025 10:41

Tgt Ion: 96 Resp: 3615
 Ion Ratio Lower Upper
 96 100
 61 174.1 145.9 218.9
 98 62.1 52.2 78.4

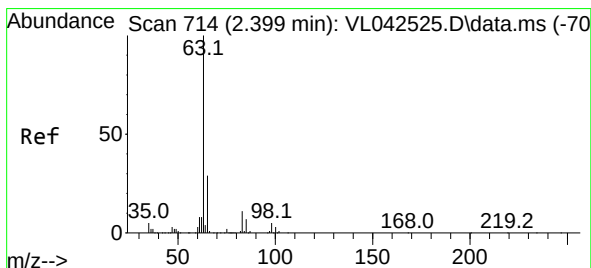
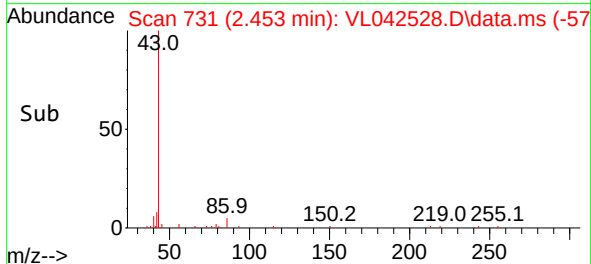
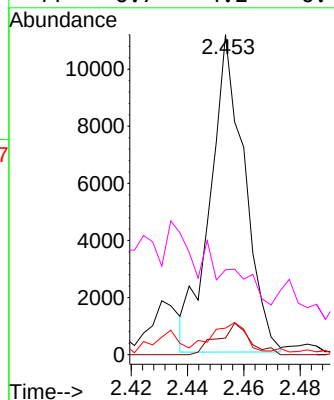
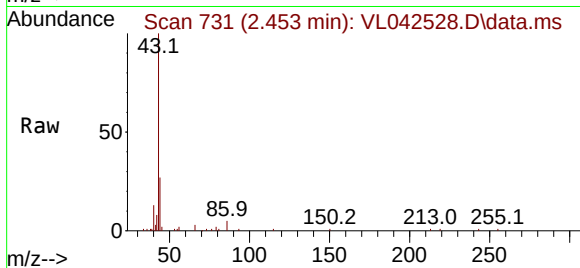




#23
 Vinyl Acetate
 Concen: 0.540 ppbv
 RT: 2.453 min Scan# 715
 Delta R.T. -0.000 min
 Lab File: VL042528.D
 Acq: 12 May 2025 10:41

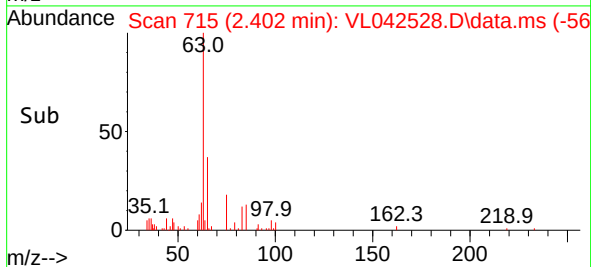
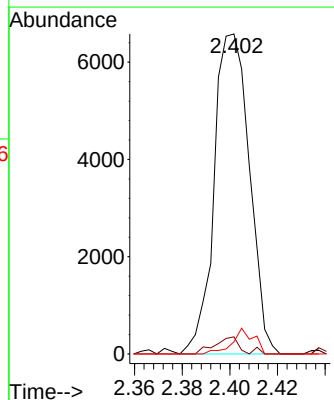
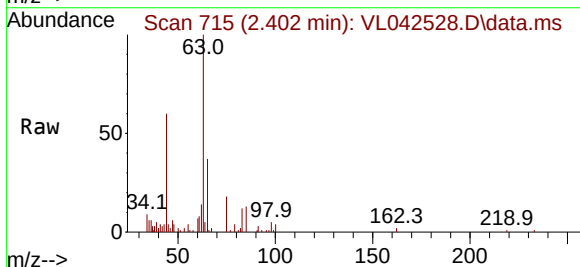
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

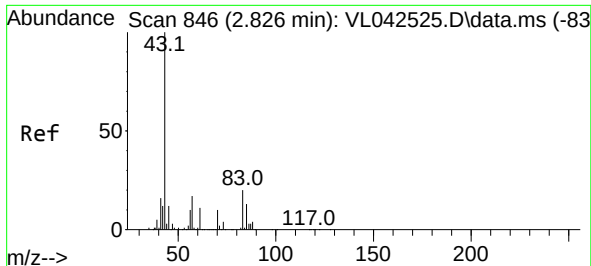
Tgt Ion:	43	Resp:	9366
Ion	Ratio	Lower	Upper
43	100		
86	5.3	6.8	10.2#
42	6.5	8.8	13.2#
44	6.7	4.2	6.4#



#24
 1,1-Dichloroethane
 Concen: 0.525 ppbv
 RT: 2.402 min Scan# 715
 Delta R.T. 0.003 min
 Lab File: VL042528.D
 Acq: 12 May 2025 10:41

Tgt Ion:	63	Resp:	6774
Ion	Ratio	Lower	Upper
63	100		
98	5.1	2.6	8.0
100	3.6	1.4	4.2

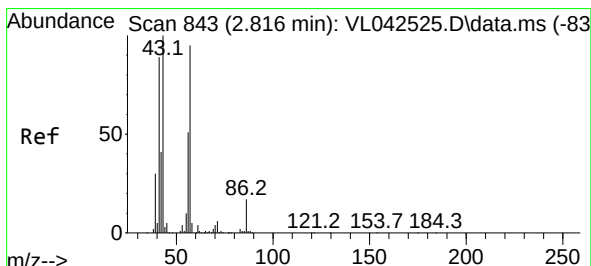
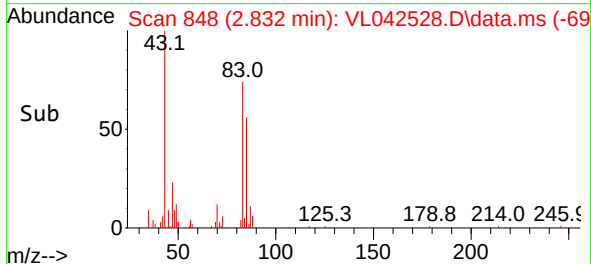
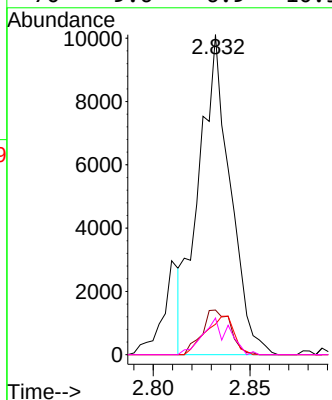
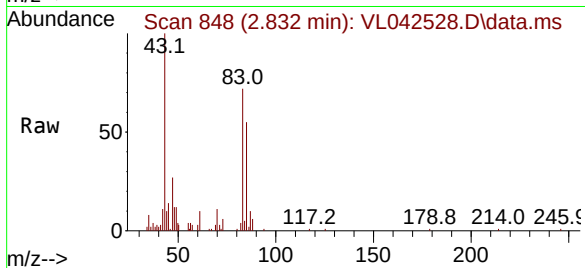




#25
Ethyl Acetate
Concen: 0.394 ppbv
RT: 2.832 min Scan# 846
Delta R.T. 0.006 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

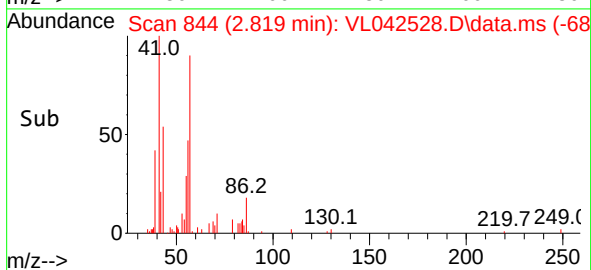
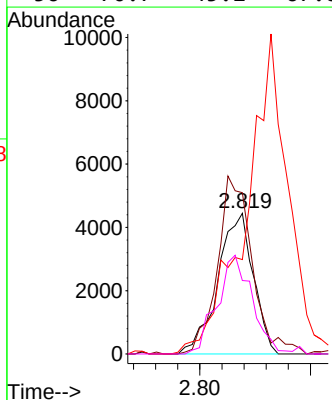
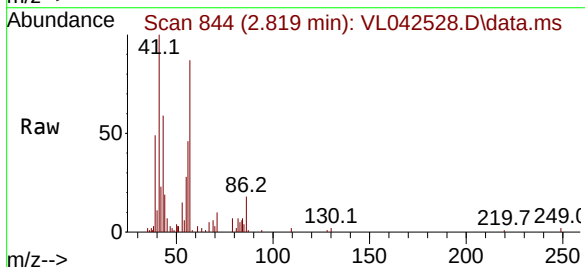
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

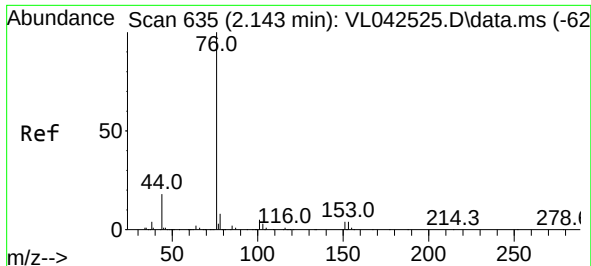
Tgt Ion:	43	Resp:	11446
Ion	Ratio	Lower	Upper
43	100		
45	12.8	7.9	11.9#
61	10.9	7.1	10.7#
70	9.6	6.9	10.3



#26
Hexane
Concen: 0.414 ppbv
RT: 2.819 min Scan# 844
Delta R.T. 0.003 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

Tgt Ion:	57	Resp:	4939
Ion	Ratio	Lower	Upper
57	100		
41	124.6	76.1	114.1#
43	268.5	188.9	283.3
56	70.7	45.2	67.8#

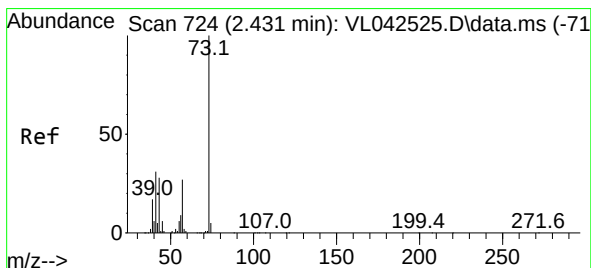
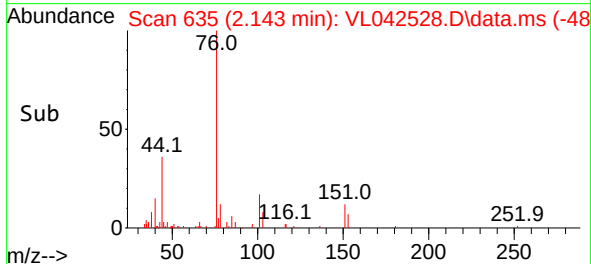
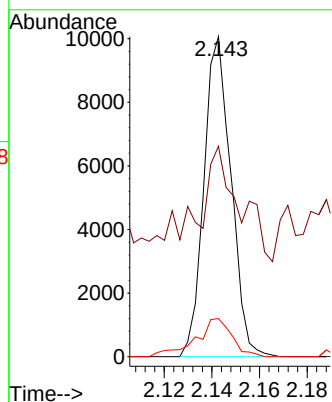
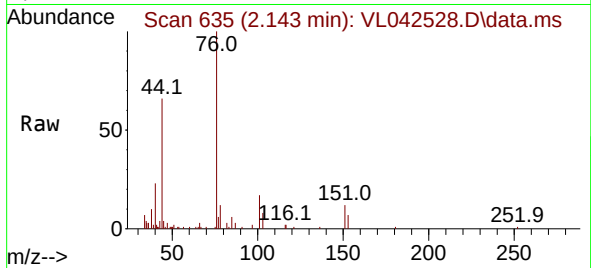




#27
Carbon Disulfide
Concen: 0.516 ppbv
RT: 2.143 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

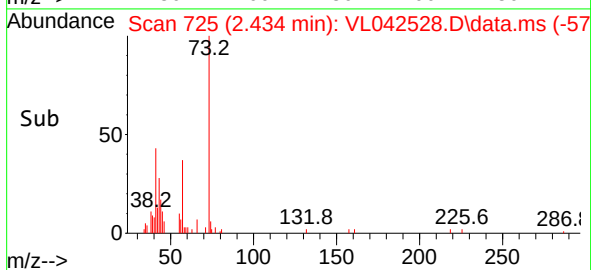
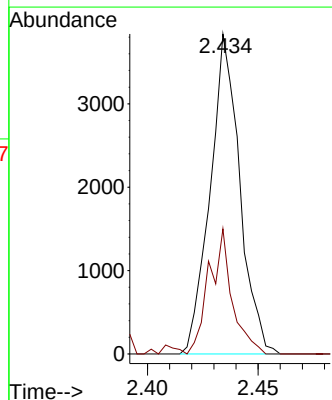
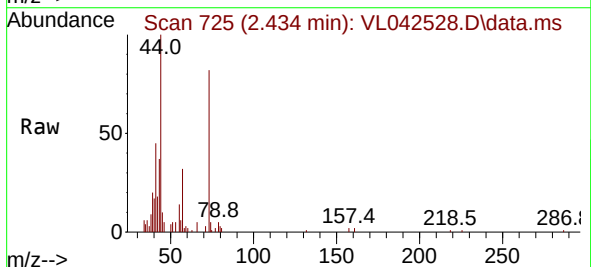
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

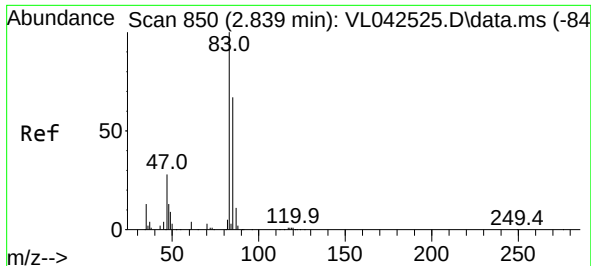
Tgt Ion: 76 Resp: 7953
Ion Ratio Lower Upper
76 100
44 130.4 17.1 25.7#
78 15.9 8.6 12.8#



#28
Methyl tert-Butyl Ether
Concen: 0.539 ppbv
RT: 2.434 min Scan# 725
Delta R.T. 0.003 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

Tgt Ion: 73 Resp: 3573
Ion Ratio Lower Upper
73 100
57 31.9 20.3 30.5#





#29

Chloroform

Concen: 0.536 ppbv

RT: 2.842 min Scan# 81

Delta R.T. 0.003 min

Lab File: VL042528.D

Acq: 12 May 2025 10:41

Instrument :

MSVOA_1

ClientSampleId :

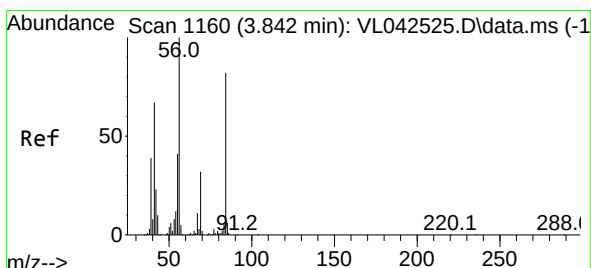
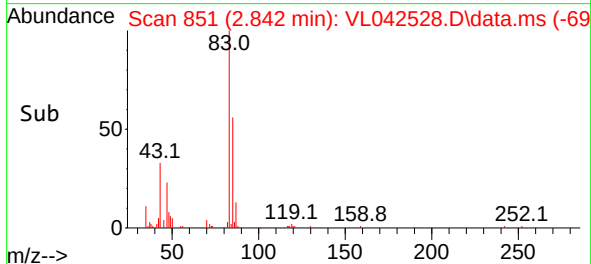
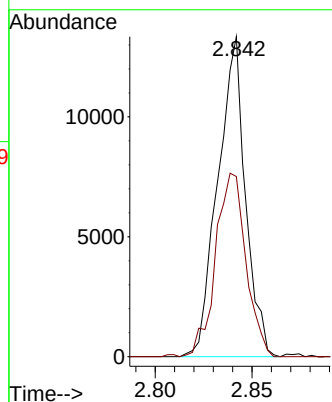
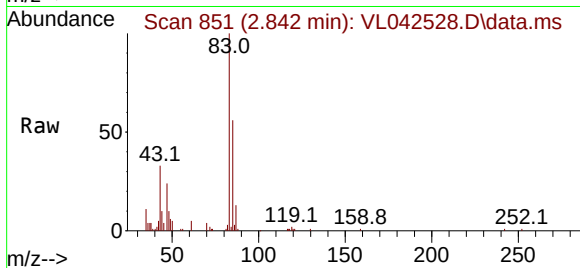
VSTDIC0.5

Tgt Ion: 83 Resp: 13265

Ion Ratio Lower Upper

83 100

85 56.3 53.5 80.3



#30

Cyclohexane

Concen: 0.140 ppbv

RT: 3.845 min Scan# 1161

Delta R.T. 0.003 min

Lab File: VL042528.D

Acq: 12 May 2025 10:41

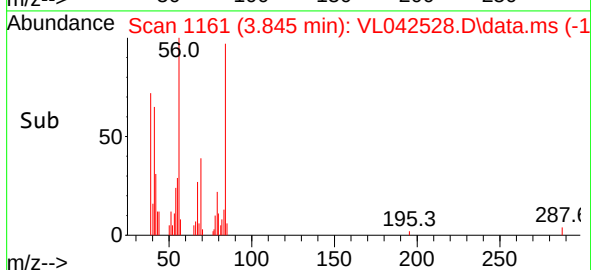
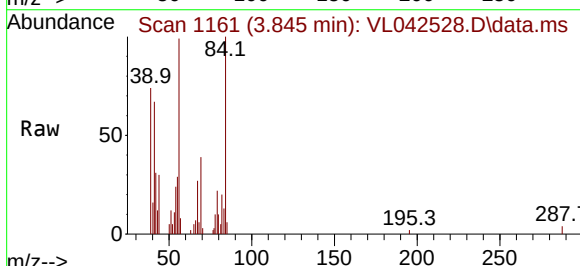
Tgt Ion: 84 Resp: 1372

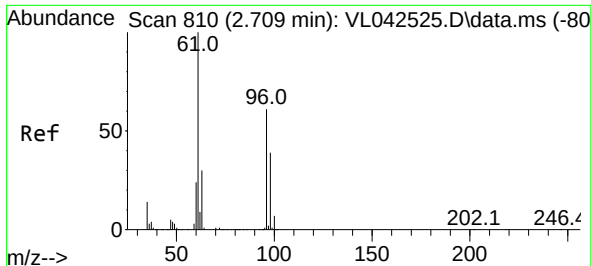
Ion Ratio Lower Upper

84 100

56 408.1 97.1 145.7#

41 283.7 66.6 99.8#

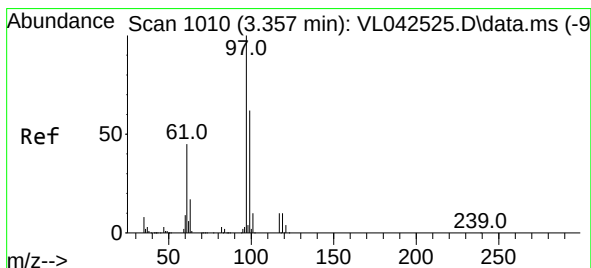
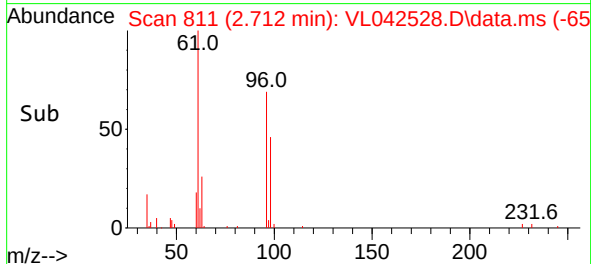
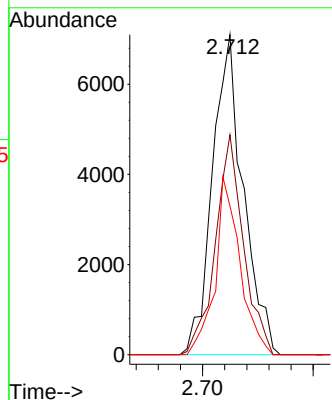
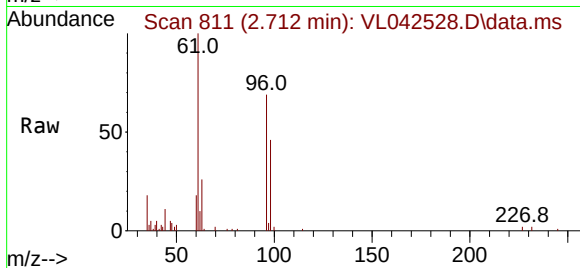




#31
 cis-1,2-Dichloroethene
 Concen: 0.511 ppbv
 RT: 2.712 min Scan# 81
 Delta R.T. 0.003 min
 Lab File: VL042528.D
 Acq: 12 May 2025 10:41

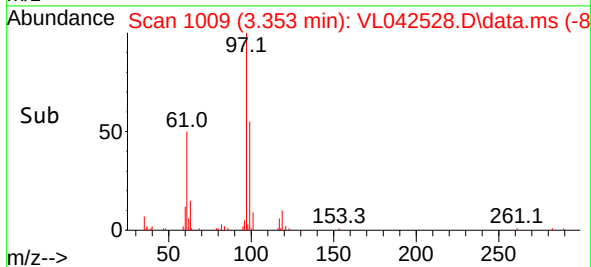
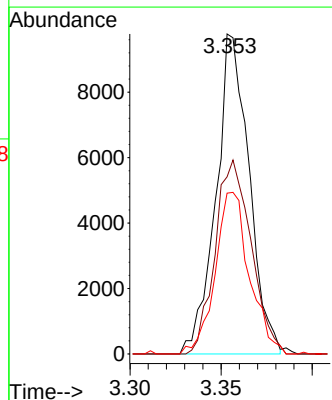
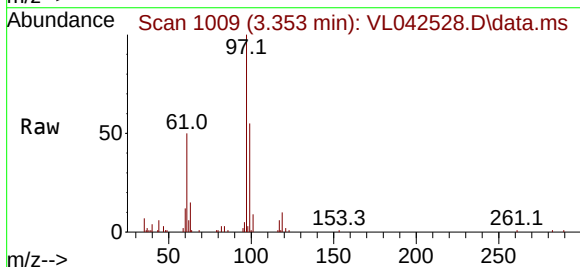
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

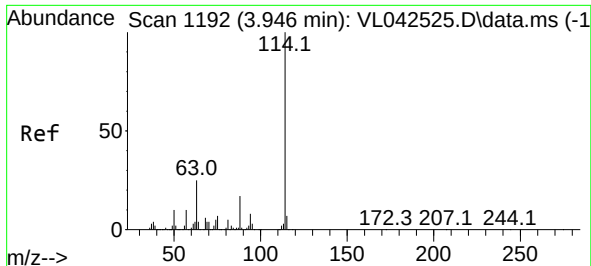
Tgt Ion: 61 Resp: 6890
 Ion Ratio Lower Upper
 61 100
 96 68.7 48.9 73.3
 98 46.5 31.4 47.2



#32
 1,1,1-Trichloroethane
 Concen: 0.495 ppbv
 RT: 3.353 min Scan# 1009
 Delta R.T. -0.004 min
 Lab File: VL042528.D
 Acq: 12 May 2025 10:41

Tgt Ion: 97 Resp: 12360
 Ion Ratio Lower Upper
 97 100
 99 65.9 50.1 75.1
 61 52.3 38.2 57.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.946 min Scan# 1192

Delta R.T. -0.000 min

Lab File: VL042528.D

Acq: 12 May 2025 10:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

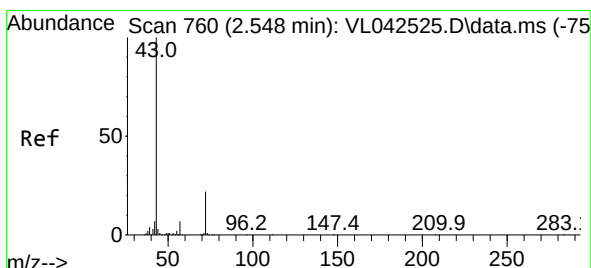
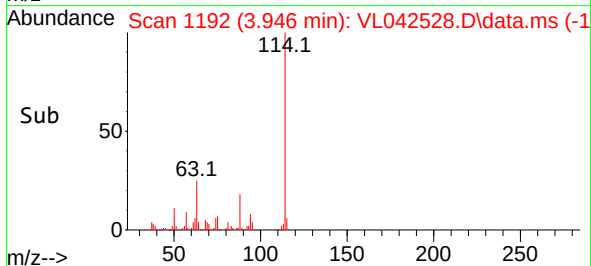
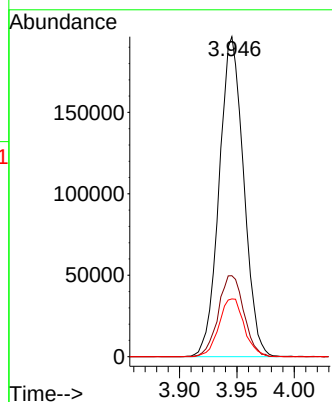
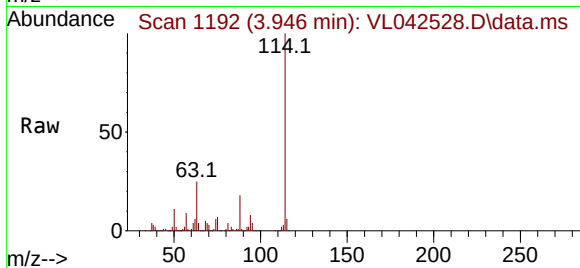
Tgt Ion:114 Resp: 291247

Ion Ratio Lower Upper

114 100

63 26.5 20.4 30.6

88 18.6 14.5 21.7



#34

2-Butanone

Concen: 0.521 ppbv

RT: 2.554 min Scan# 762

Delta R.T. 0.006 min

Lab File: VL042528.D

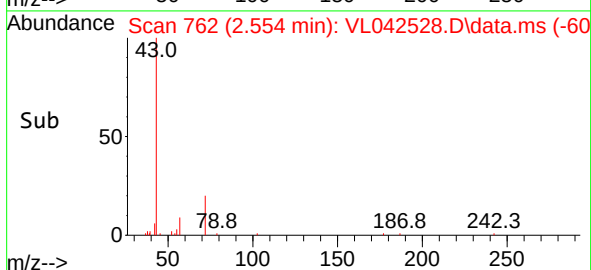
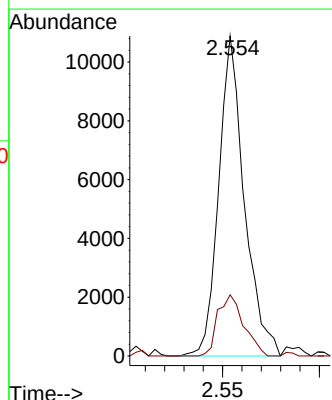
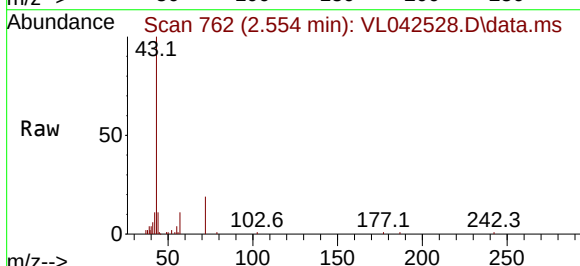
Acq: 12 May 2025 10:41

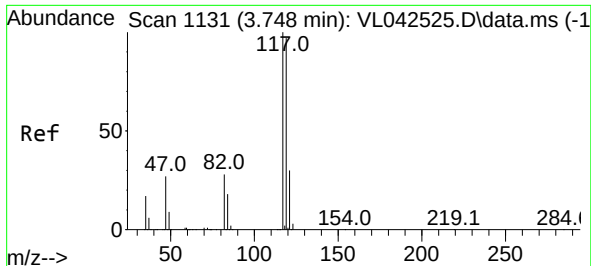
Tgt Ion: 43 Resp: 9997

Ion Ratio Lower Upper

43 100

72 19.9 18.7 28.1

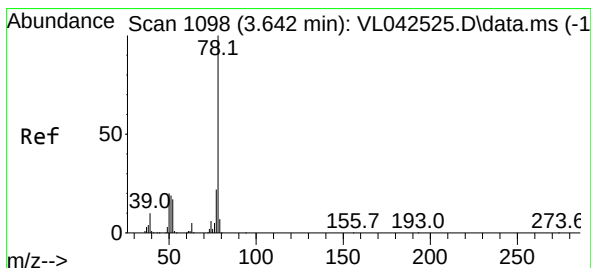
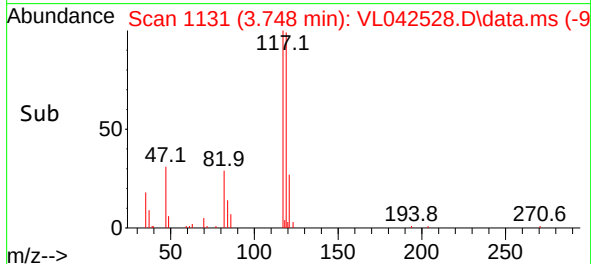
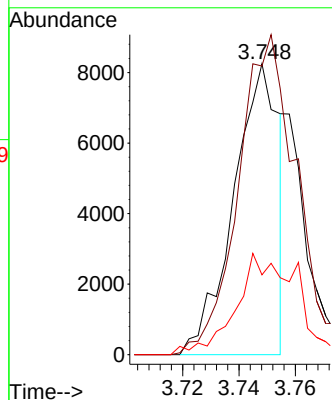
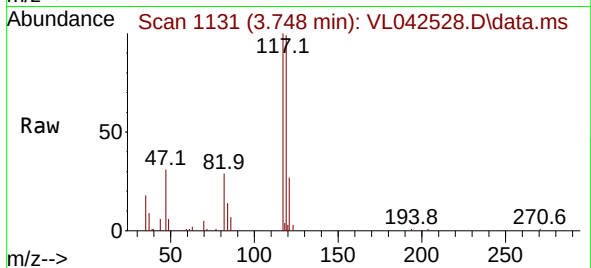




#35
Carbon Tetrachloride
Concen: 0.351 ppbv
RT: 3.748 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

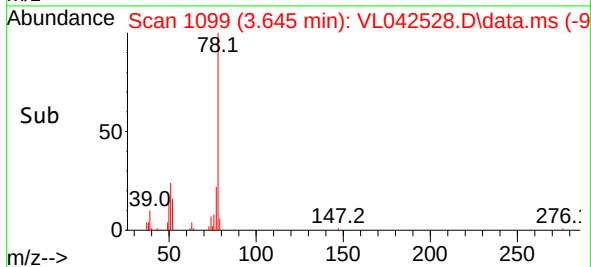
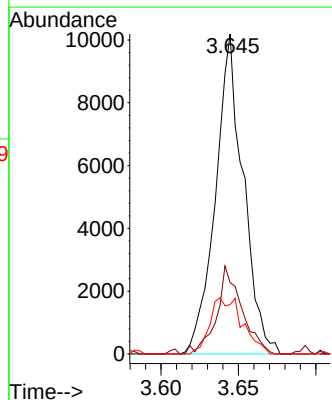
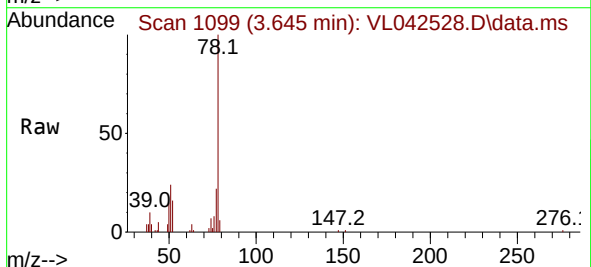
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

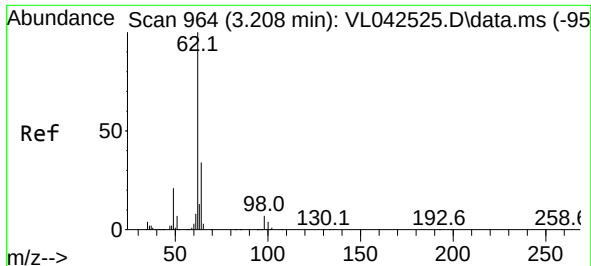
Tgt Ion:117 Resp: 9197
Ion Ratio Lower Upper
117 100
119 98.6 77.7 116.5
121 24.6 24.0 36.0



#36
Benzene
Concen: 0.493 ppbv
RT: 3.645 min Scan# 1099
Delta R.T. 0.003 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

Tgt Ion: 78 Resp: 12733
Ion Ratio Lower Upper
78 100
77 22.3 17.4 26.2
50 15.4 16.3 24.5#

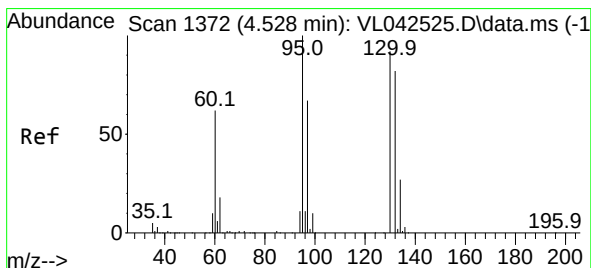
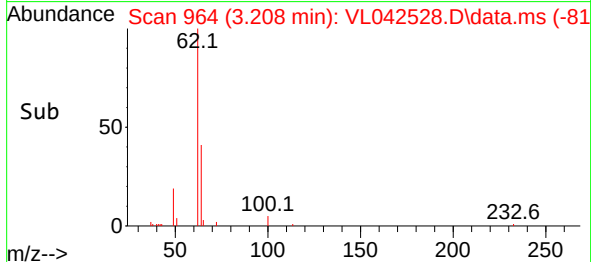
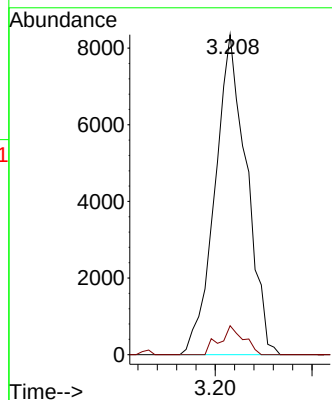
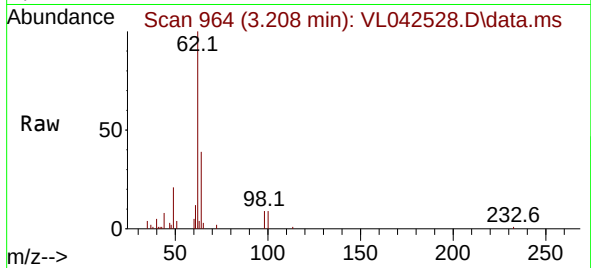




#37
1,2-Dichloroethane
Concen: 0.513 ppbv
RT: 3.208 min Scan# 91
Delta R.T. -0.000 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

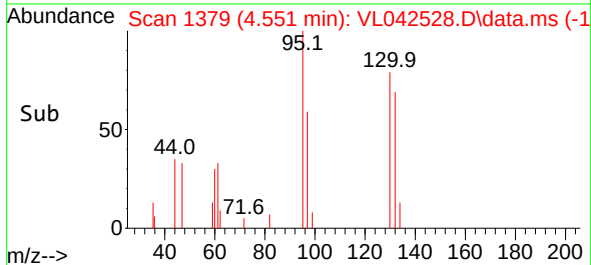
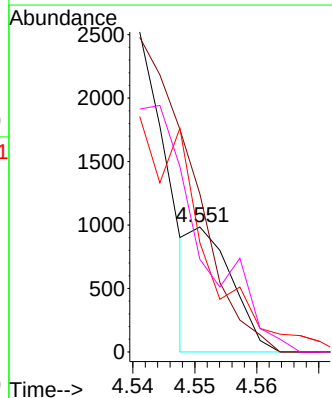
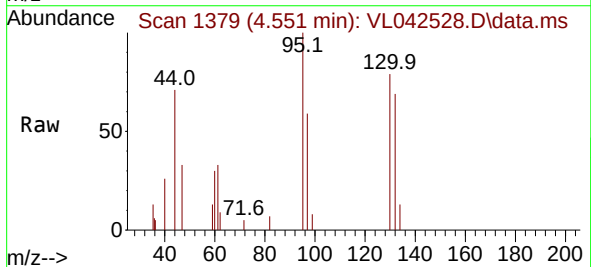
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

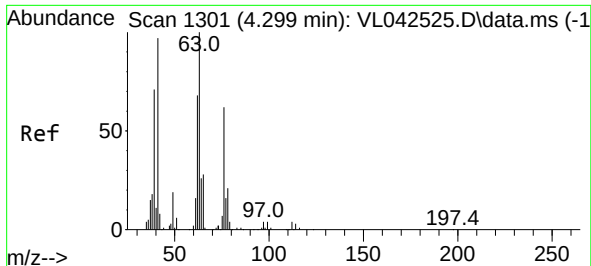
Tgt Ion: 62 Resp: 9449
Ion Ratio Lower Upper
62 100
98 6.8 5.0 7.4



#38
Trichloroethene
Concen: 0.041 ppbv
RT: 4.551 min Scan# 1379
Delta R.T. 0.022 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

Tgt Ion: 130 Resp: 449
Ion Ratio Lower Upper
130 100
95 126.5 87.0 130.4
132 73.3 71.1 106.7
97 63.9 58.4 87.6





#39

1,2-Dichloropropane

Concen: 0.276 ppbv

RT: 4.298 min Scan# 1301

Delta R.T. -0.000 min

Lab File: VL042528.D

Acq: 12 May 2025 10:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

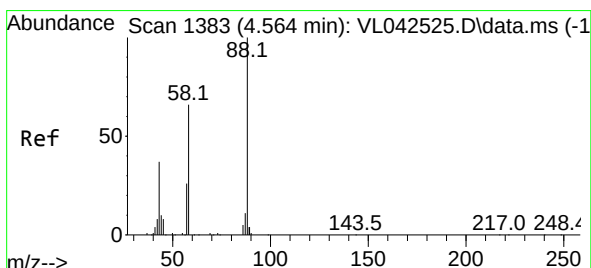
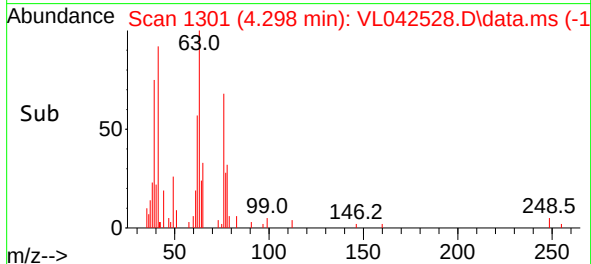
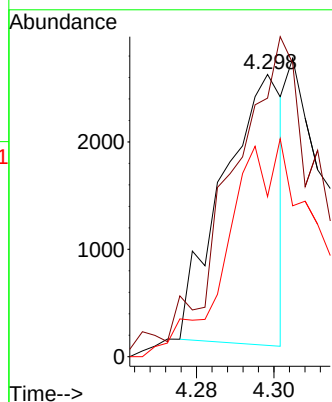
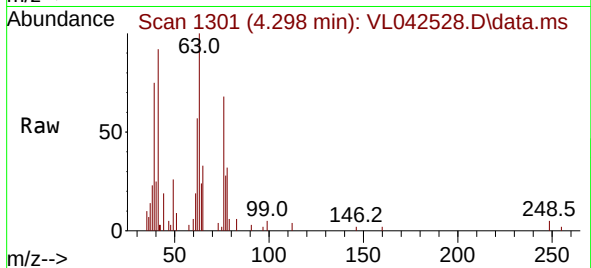
Tgt Ion: 63 Resp: 2654

Ion Ratio Lower Upper

63 100

41 79.0 77.5 116.3

62 48.8 54.6 82.0#



#40

1,4-Dioxane

Concen: 0.051 ppbv

RT: 4.577 min Scan# 1387

Delta R.T. 0.013 min

Lab File: VL042528.D

Acq: 12 May 2025 10:41

Tgt Ion: 88 Resp: 194

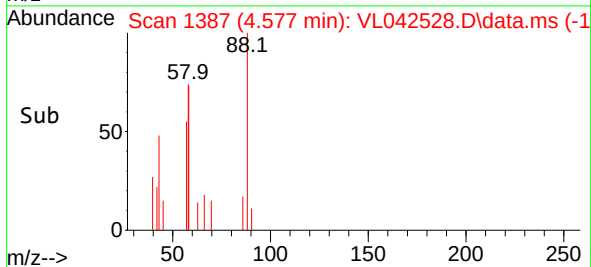
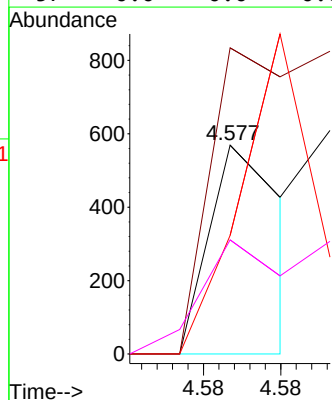
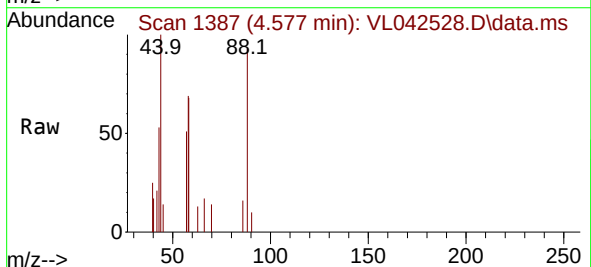
Ion Ratio Lower Upper

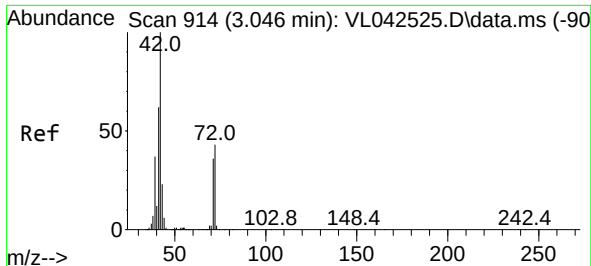
88 100

58 0.0 58.2 87.2#

43 0.0 27.9 41.9#

57 0.0 0.0 0.0

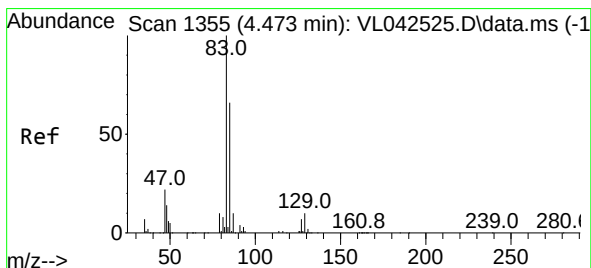
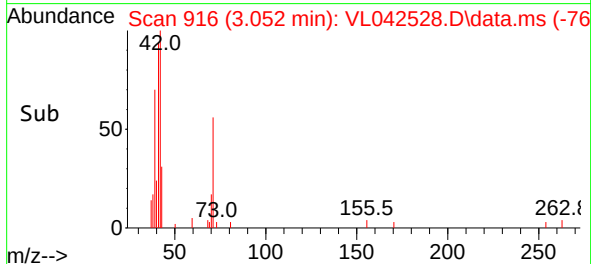
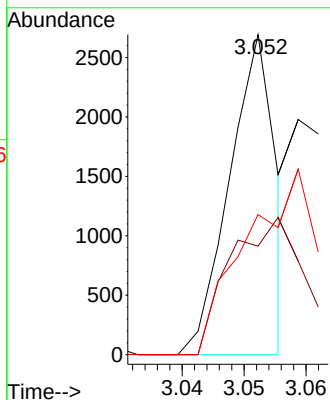
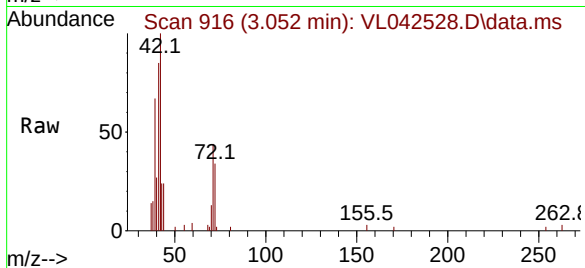




#41
Tetrahydrofuran
Concen: 0.170 ppbv
RT: 3.052 min Scan# 914
Delta R.T. 0.006 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

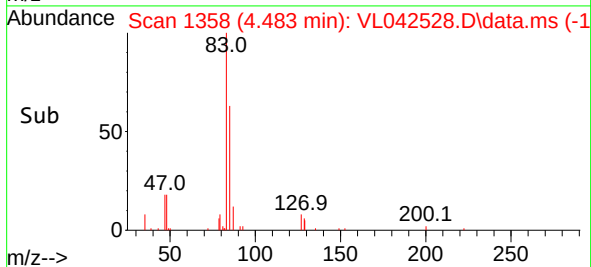
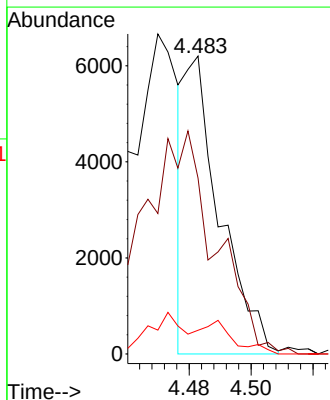
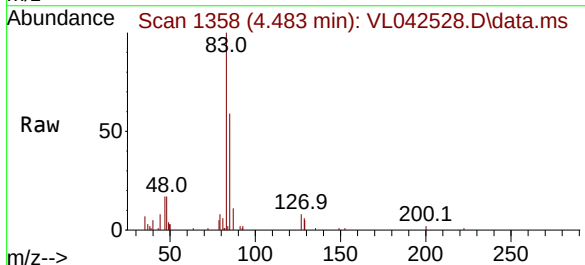
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

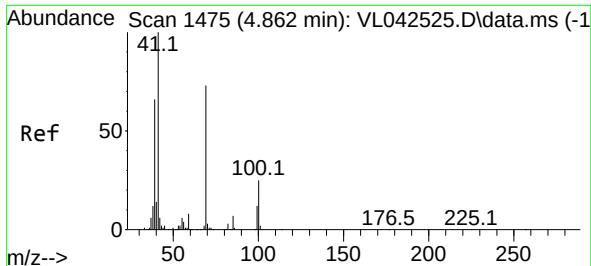
Tgt Ion: 42 Resp: 1405
Ion Ratio Lower Upper
42 100
72 88.2 32.7 49.1#
71 0.0 30.4 45.6#



#42
Bromodichloromethane
Concen: 0.200 ppbv
RT: 4.483 min Scan# 1358
Delta R.T. 0.009 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

Tgt Ion: 83 Resp: 4904
Ion Ratio Lower Upper
83 100
85 58.6 52.6 79.0
127 8.0 6.0 9.0

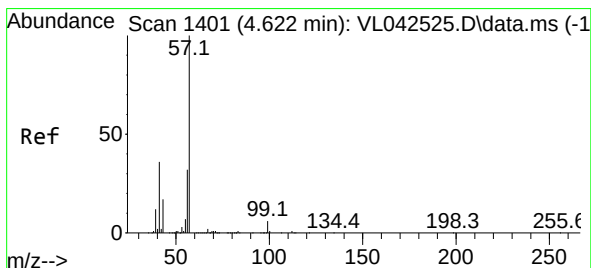
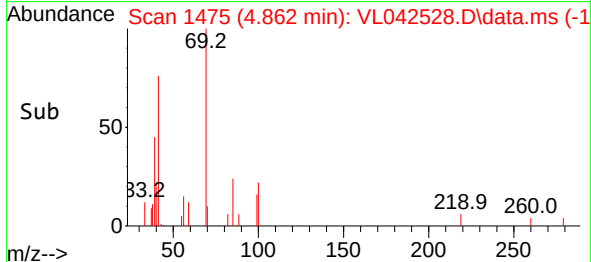
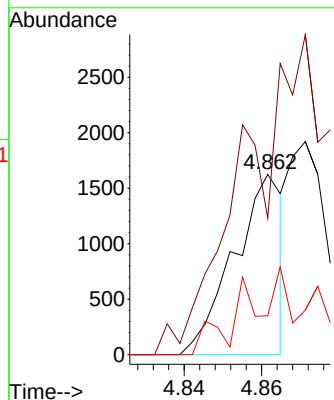
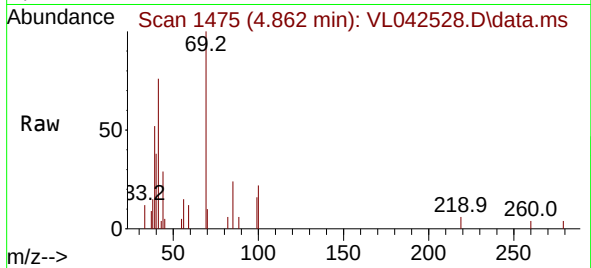




#43
Methyl Methacrylate
Concen: 0.163 ppbv
RT: 4.862 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

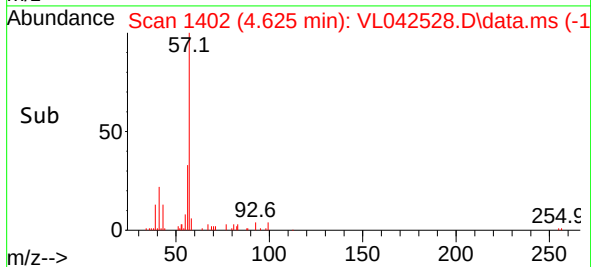
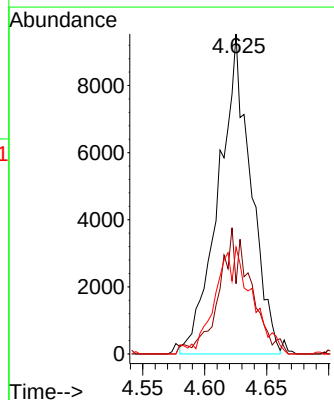
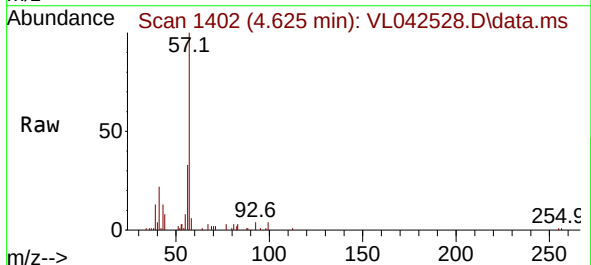
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

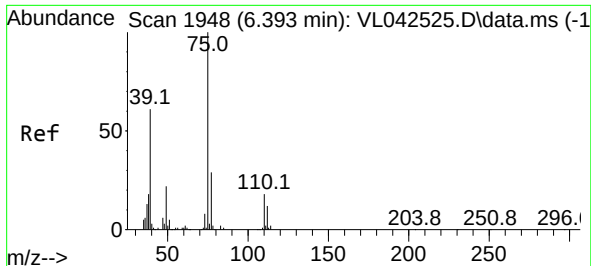
Tgt Ion: 69 Resp: 1408
Ion Ratio Lower Upper
69 100
41 0.0 119.9 179.9#
100 81.3 28.4 42.6#



#44
2,2,4-Trimethylpentane
Concen: 0.427 ppbv
RT: 4.625 min Scan# 1402
Delta R.T. 0.003 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

Tgt Ion: 57 Resp: 17301
Ion Ratio Lower Upper
57 100
41 38.6 28.3 42.5
56 38.3 25.9 38.9

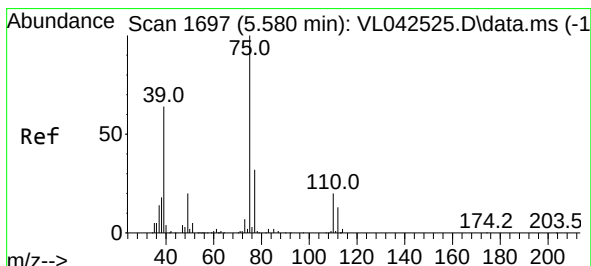
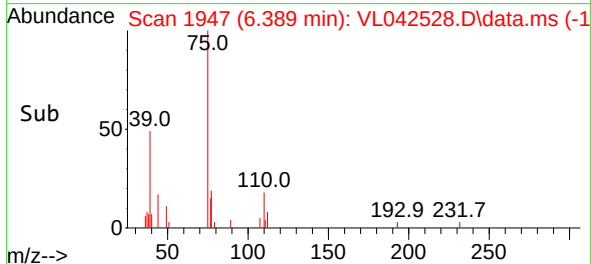
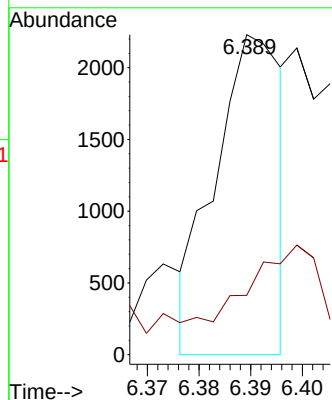
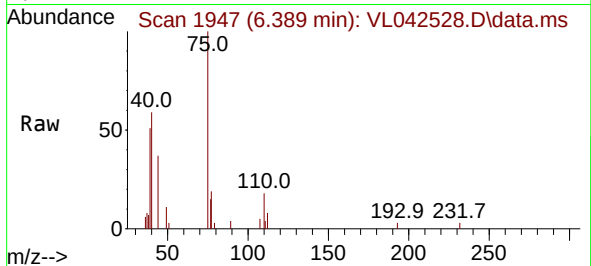




#45
 t-1,3-Dichloropropene
 Concen: 0.181 ppbv
 RT: 6.389 min Scan# 1947
 Delta R.T. -0.004 min
 Lab File: VL042528.D
 Acq: 12 May 2025 10:41

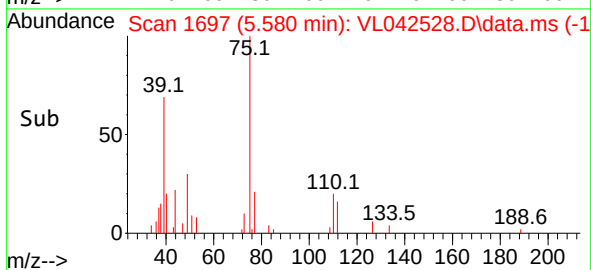
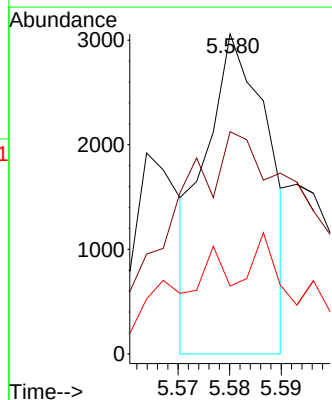
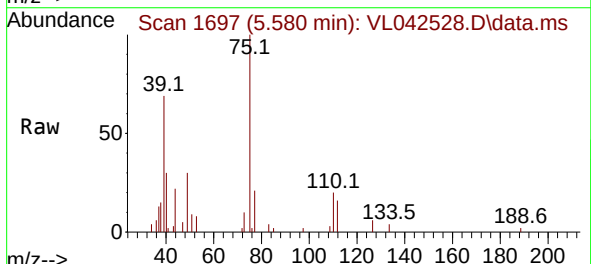
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

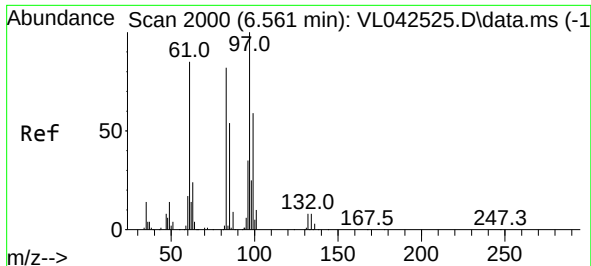
Tgt Ion: 75 Resp: 1988
 Ion Ratio Lower Upper
 75 100
 77 18.6 23.3 34.9#



#46
 cis-1,3-Dichloropropene
 Concen: 0.197 ppbv
 RT: 5.580 min Scan# 1697
 Delta R.T. -0.000 min
 Lab File: VL042528.D
 Acq: 12 May 2025 10:41

Tgt Ion: 75 Resp: 2611
 Ion Ratio Lower Upper
 75 100
 39 37.4 51.2 76.8#
 77 4.4 25.4 38.0#

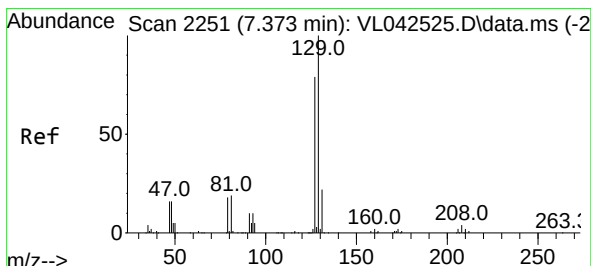
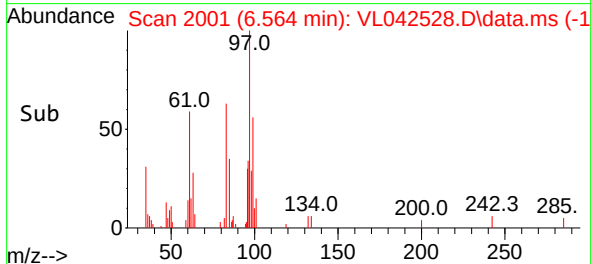
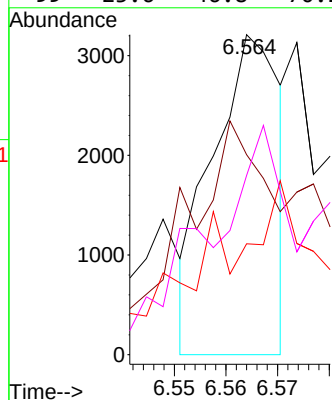
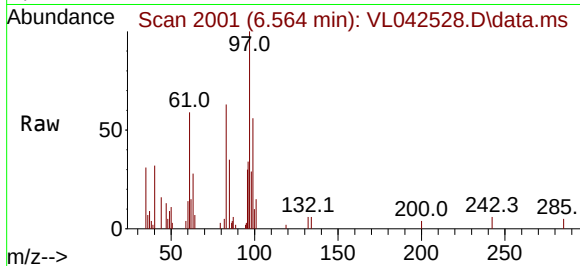




#47
1,1,2-Trichloroethane
Concen: 0.258 ppbv
RT: 6.564 min Scan# 2000
Delta R.T. 0.003 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

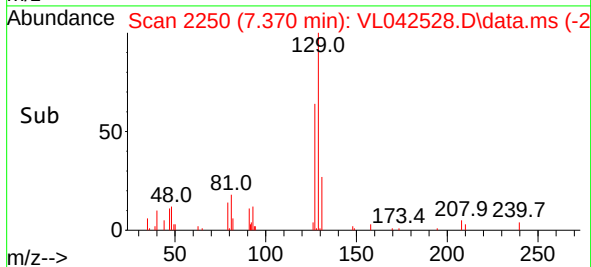
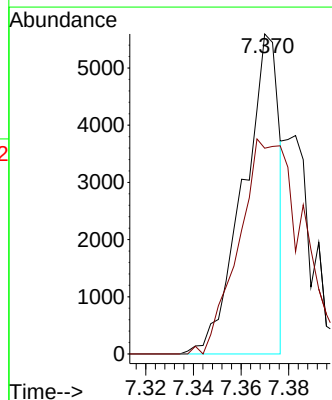
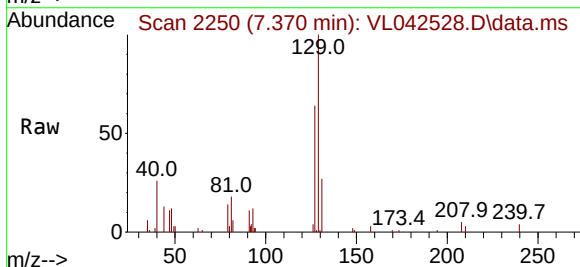
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

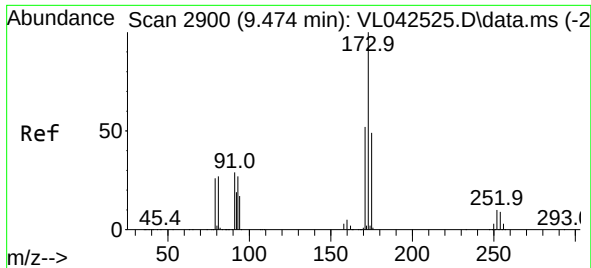
Tgt Ion:	97	Resp:	2915
Ion	Ratio	Lower	Upper
97	100		
83	25.4	66.0	99.0#
85	17.4	42.8	64.2#
99	23.6	46.8	70.2#



#48
Dibromochloromethane
Concen: 0.309 ppbv
RT: 7.370 min Scan# 2250
Delta R.T. -0.004 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

Tgt Ion:	129	Resp:	5839
Ion	Ratio	Lower	Upper
129	100		
127	119.2	39.6	118.8#

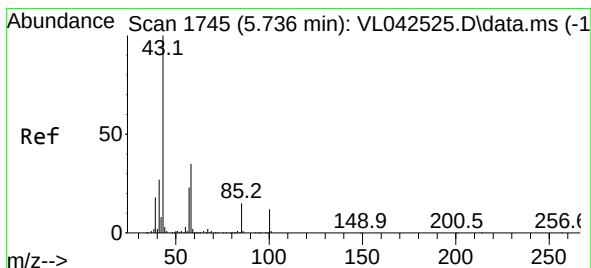
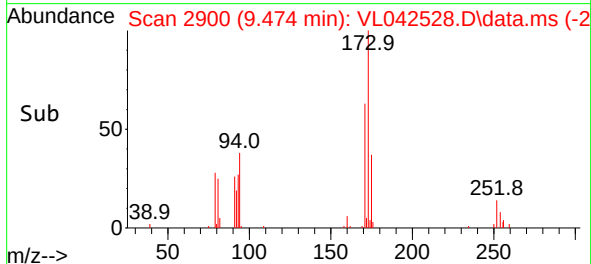
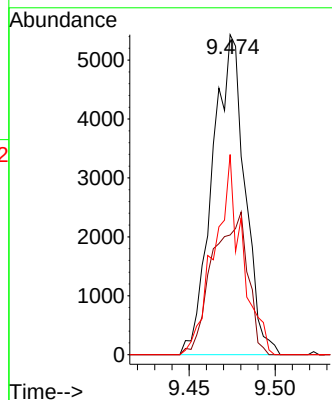
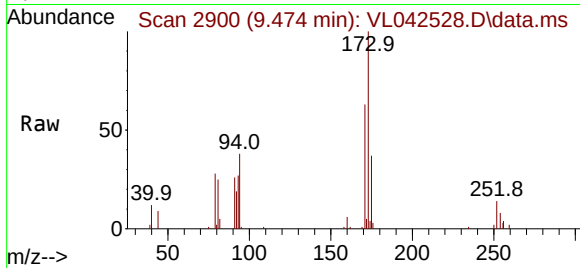




#49
Bromoform
Concen: 0.460 ppbv
RT: 9.474 min Scan# 2900
Delta R.T. -0.000 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

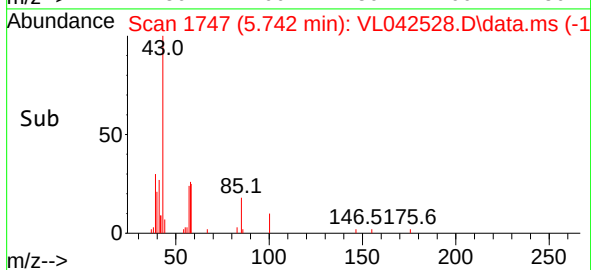
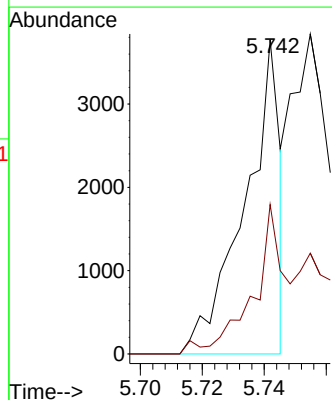
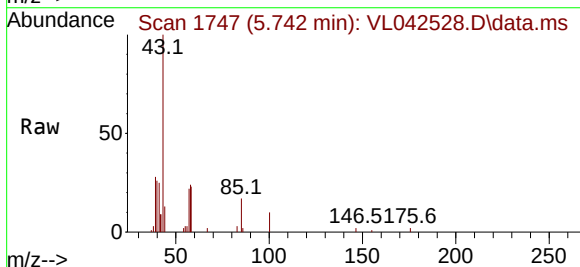
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

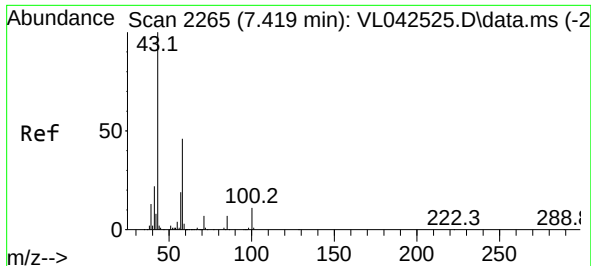
Tgt Ion:173 Resp: 7130
Ion Ratio Lower Upper
173 100
175 48.1 39.1 58.7
171 53.6 41.8 62.8



#50
4-Methyl-2-Pentanone
Concen: 0.132 ppbv
RT: 5.742 min Scan# 1747
Delta R.T. 0.006 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

Tgt Ion: 43 Resp: 2980
Ion Ratio Lower Upper
43 100
58 96.2 28.6 42.8#

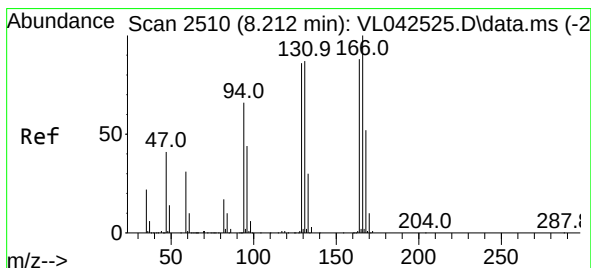
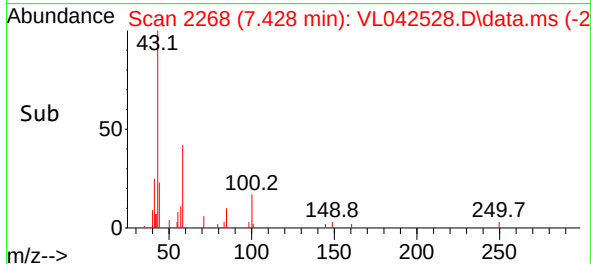
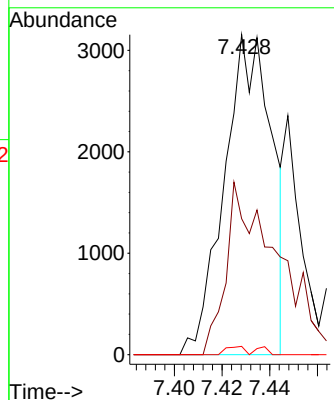
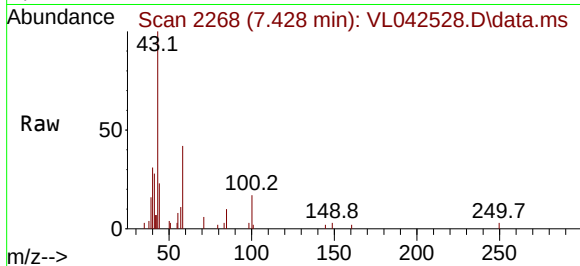




#51
2-Hexanone
Concen: 0.262 ppbv
RT: 7.428 min Scan# 2109
Delta R.T. 0.009 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

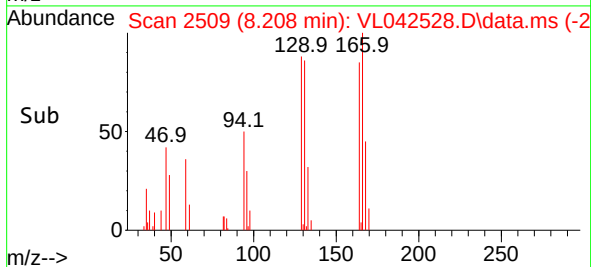
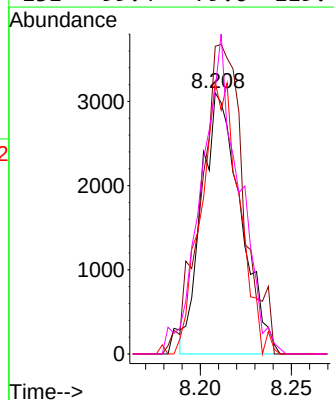
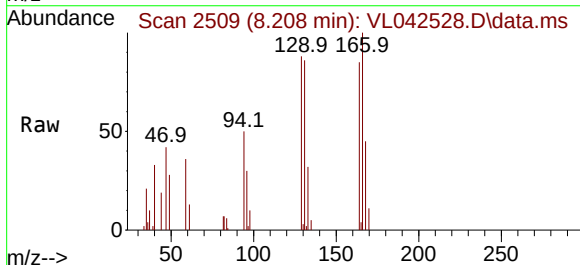
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

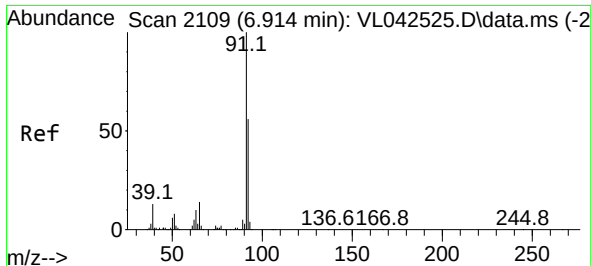
Tgt Ion: 43 Resp: 4380
Ion Ratio Lower Upper
43 100
58 58.3 37.5 56.3#
98 1.6 0.9 1.3#



#52
Tetrachloroethene
Concen: 0.466 ppbv
RT: 8.208 min Scan# 2509
Delta R.T. -0.004 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

Tgt Ion: 164 Resp: 4637
Ion Ratio Lower Upper
164 100
166 117.8 91.3 136.9
129 104.2 78.9 118.3
131 99.4 79.6 119.4

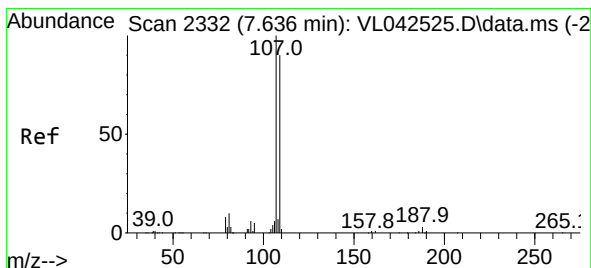
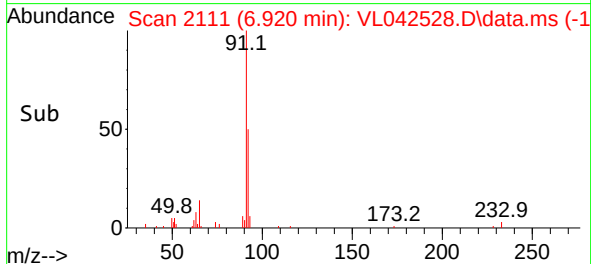
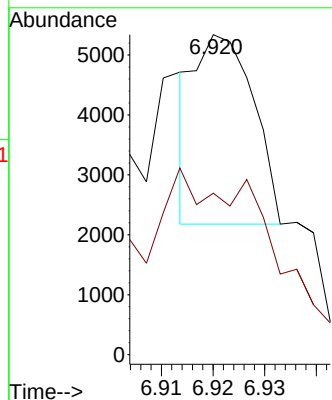
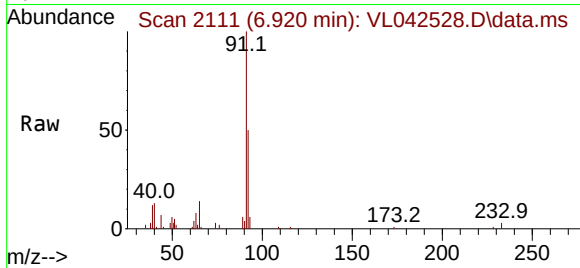




#53
Toluene
Concen: 0.098 ppbv
RT: 6.920 min Scan# 2109
Delta R.T. 0.006 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

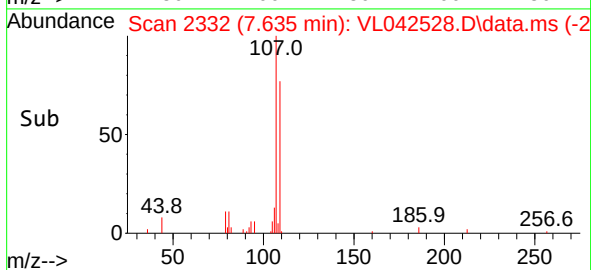
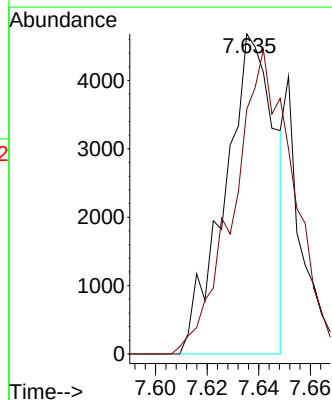
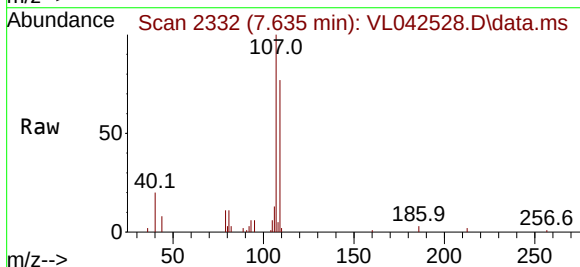
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

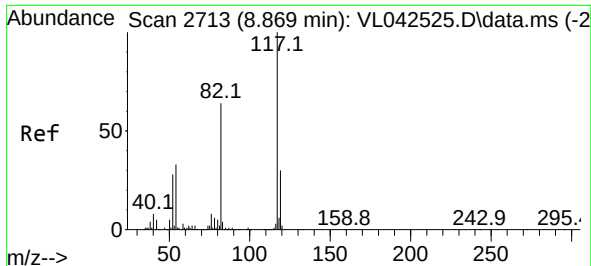
Tgt Ion: 91 Resp: 2481
Ion Ratio Lower Upper
91 100
92 242.8 47.8 71.6#



#54
1,2-Dibromoethane
Concen: 0.379 ppbv
RT: 7.635 min Scan# 2332
Delta R.T. -0.000 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

Tgt Ion: 107 Resp: 6271
Ion Ratio Lower Upper
107 100
109 74.2 72.2 108.4

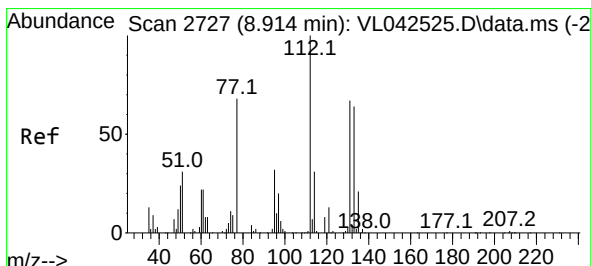
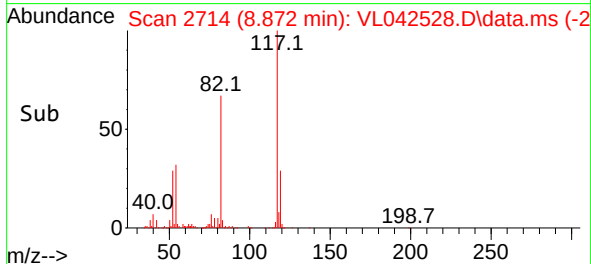
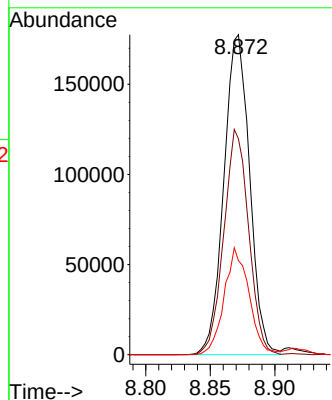
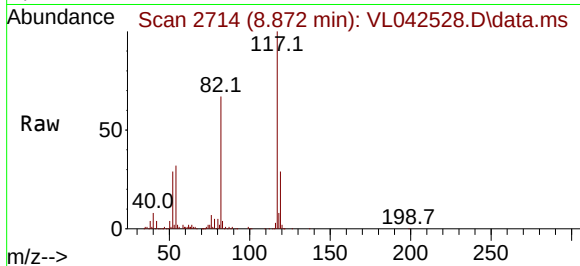




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

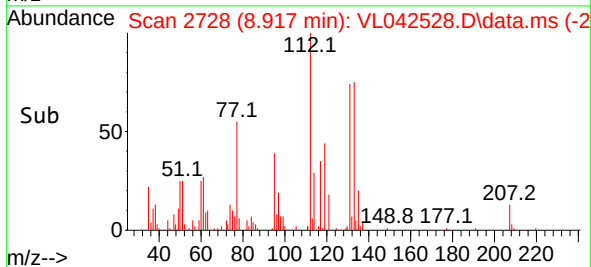
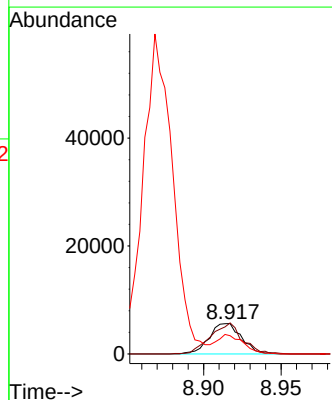
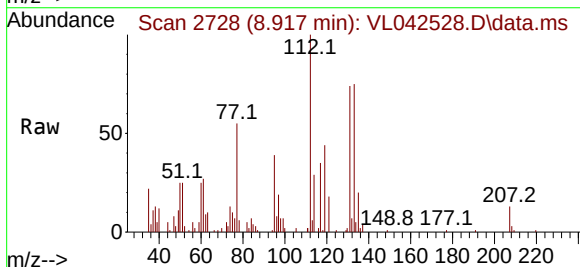
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC0.5

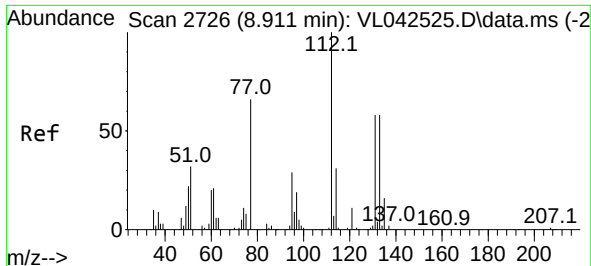
Tgt Ion:117 Resp: 246447
Ion Ratio Lower Upper
117 100
82 68.2 55.0 82.4
119 34.0 25.8 38.6



#56
1,1,1,2-Tetrachloroethane
Concen: 0.533 ppbv
RT: 8.917 min Scan# 2728
Delta R.T. 0.003 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

Tgt Ion:131 Resp: 8150
Ion Ratio Lower Upper
131 100
133 100.6 77.4 116.2
119 1028.9 49.0 73.4#

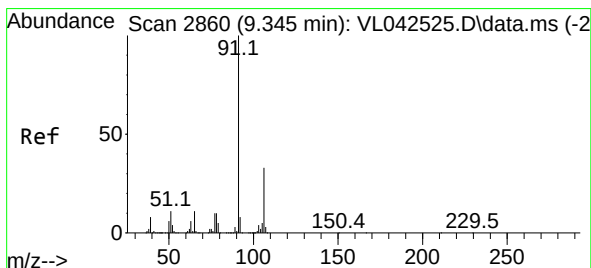
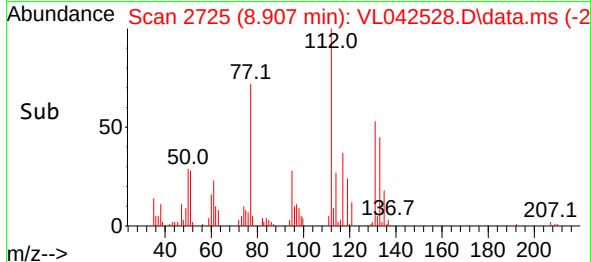
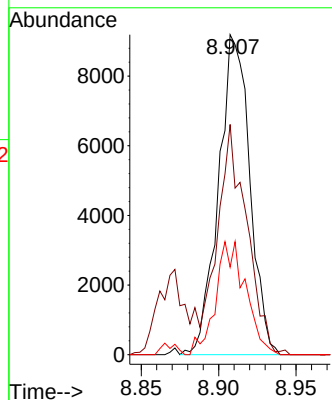
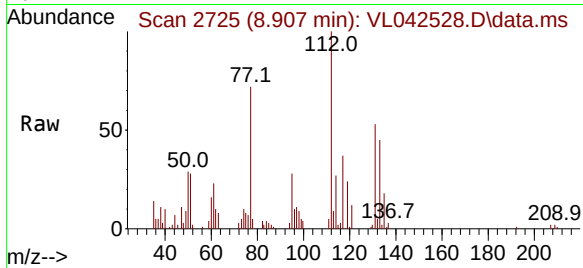




#57
Chlorobenzene
Concen: 0.521 ppbv
RT: 8.907 min Scan# 21
Delta R.T. -0.004 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

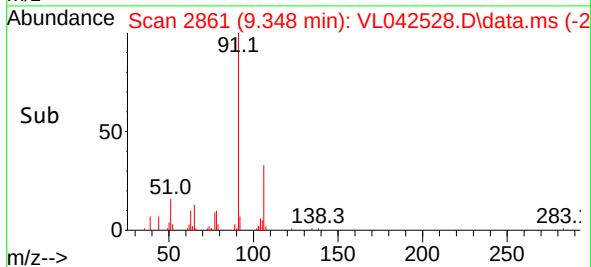
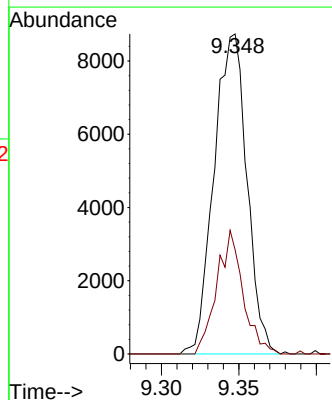
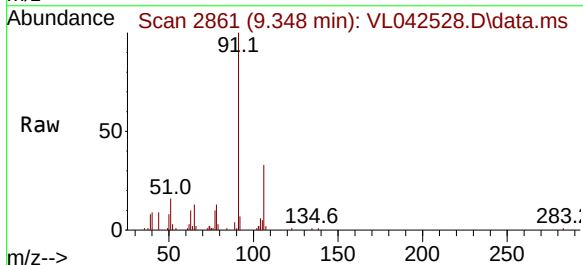
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

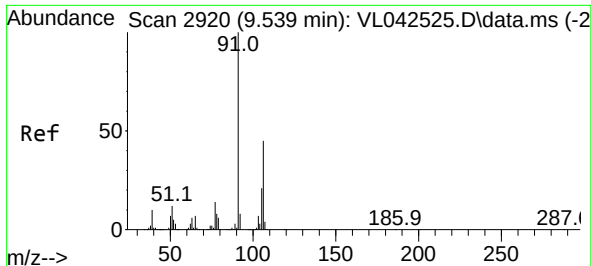
Tgt Ion:112 Resp: 12888
Ion Ratio Lower Upper
112 100
77 70.9 53.6 80.4
114 27.4 28.2 34.4#



#58
Ethyl Benzene
Concen: 0.384 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. 0.003 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

Tgt Ion: 91 Resp: 12895
Ion Ratio Lower Upper
91 100
106 32.6 26.0 39.0





#59

m/p-Xylene

Concen: 0.183 ppbv

RT: 9.545 min Scan# 2920

Delta R.T. 0.006 min

Lab File: VL042528.D

Acq: 12 May 2025 10:41

Instrument :

MSVOA_L

ClientSampleId :

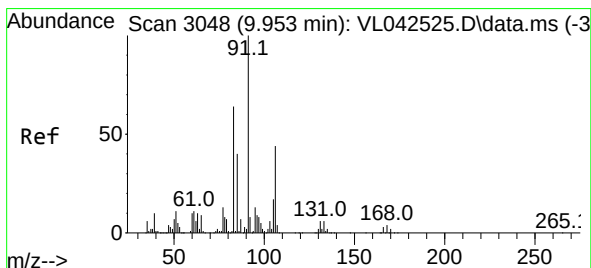
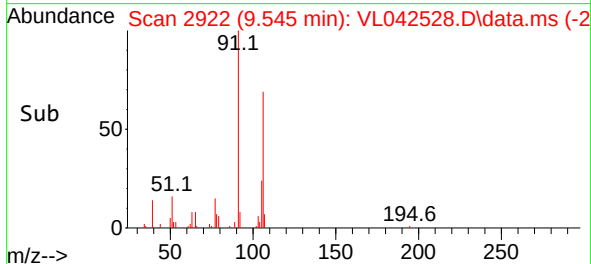
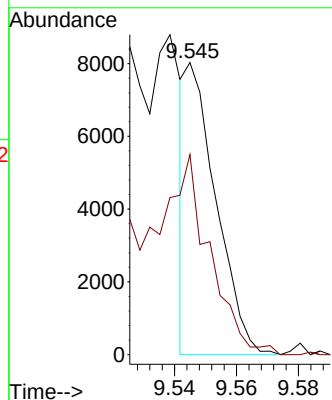
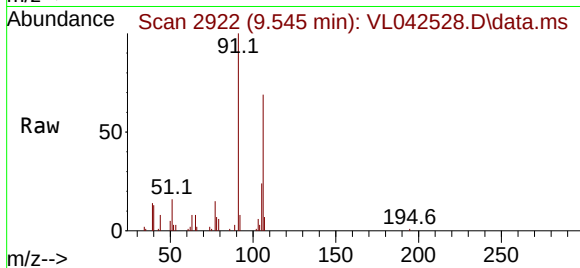
VSTDIC0.5

Tgt Ion: 91 Resp: 5454

Ion Ratio Lower Upper

91 100

106 190.7 0.0 0.0#



#60

o-Xylene

Concen: 0.339 ppbv

RT: 9.950 min Scan# 3047

Delta R.T. -0.004 min

Lab File: VL042528.D

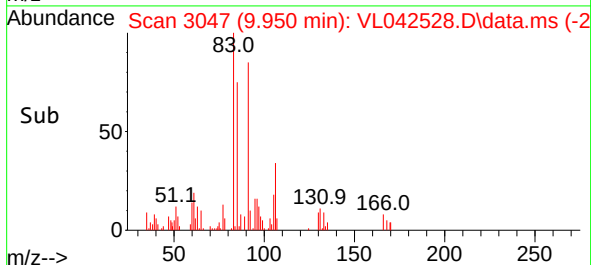
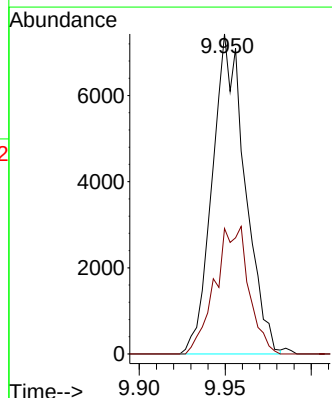
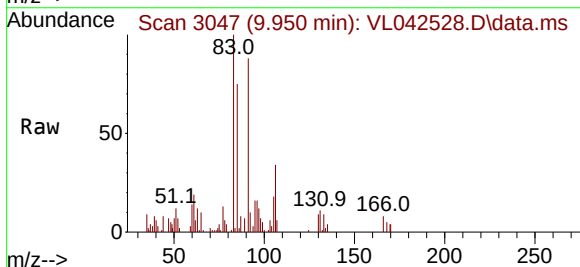
Acq: 12 May 2025 10:41

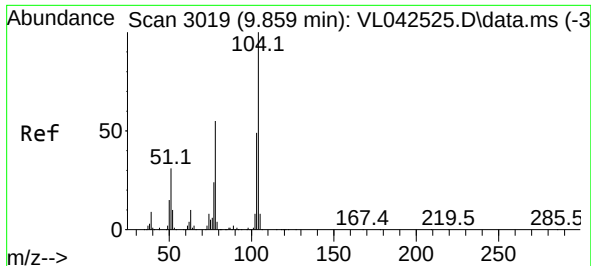
Tgt Ion: 91 Resp: 9883

Ion Ratio Lower Upper

91 100

106 40.8 21.6 64.6

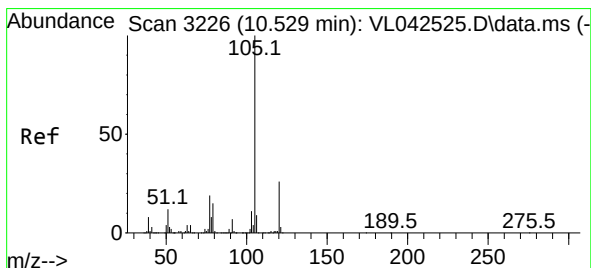
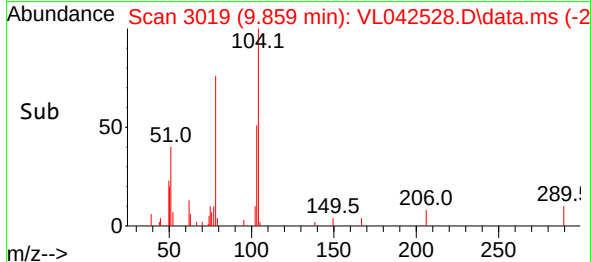
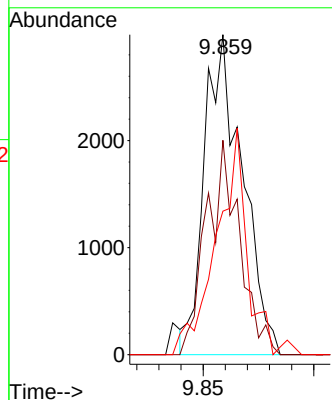
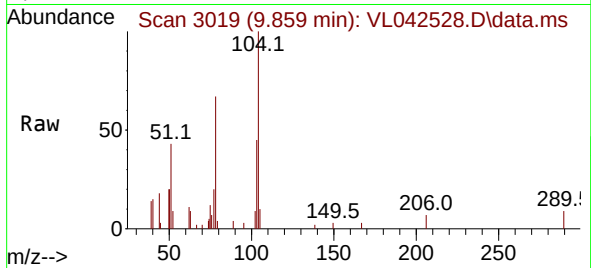




#61
Styrene
Concen: 0.332 ppbv
RT: 9.859 min Scan# 3019
Delta R.T. -0.000 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

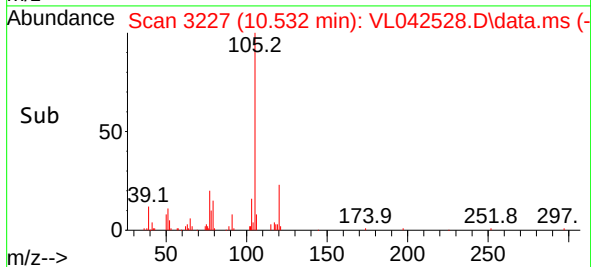
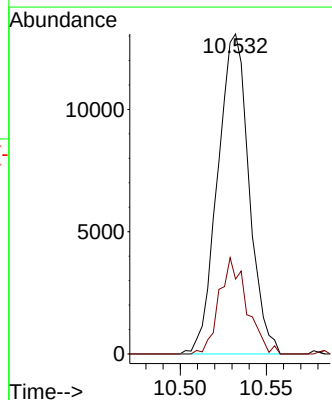
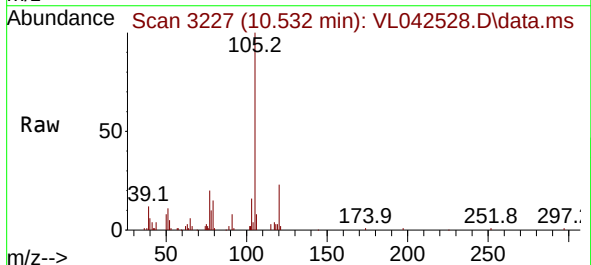
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

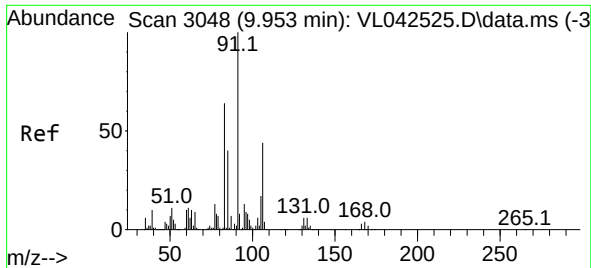
Tgt Ion:104 Resp: 3566
Ion Ratio Lower Upper
104 100
78 58.3 44.7 67.1
103 57.2 38.6 58.0



#62
Isopropylbenzene
Concen: 0.378 ppbv
RT: 10.532 min Scan# 3227
Delta R.T. 0.003 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

Tgt Ion:105 Resp: 16603
Ion Ratio Lower Upper
105 100
120 26.4 20.1 30.1

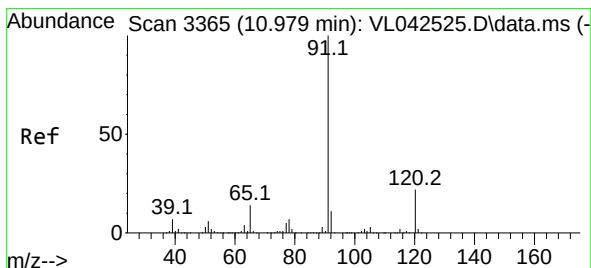
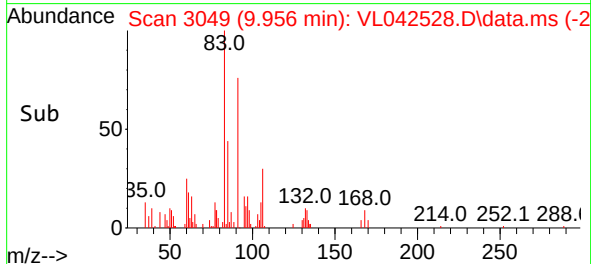
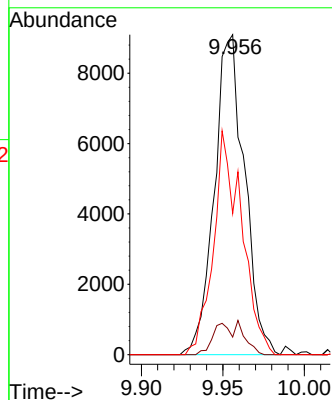
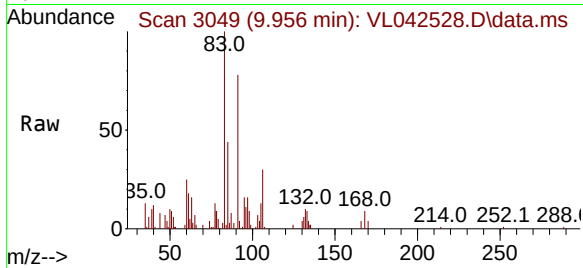




#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.501 ppbv
 RT: 9.956 min Scan# 3049
 Delta R.T. 0.003 min
 Lab File: VL042528.D
 Acq: 12 May 2025 10:41

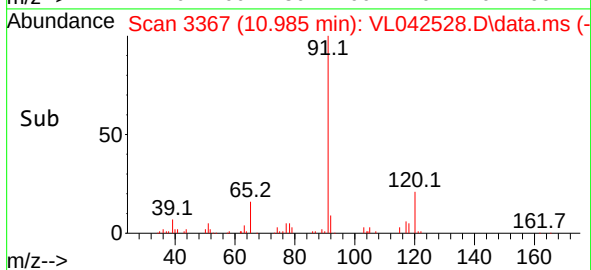
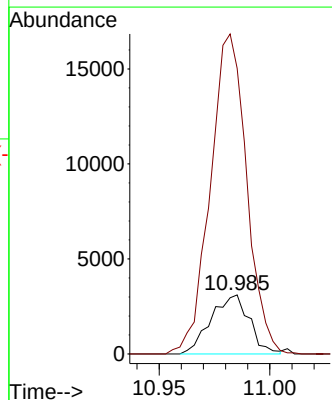
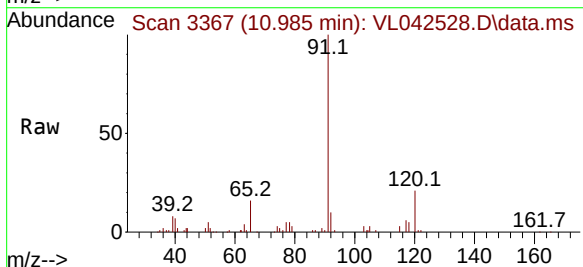
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

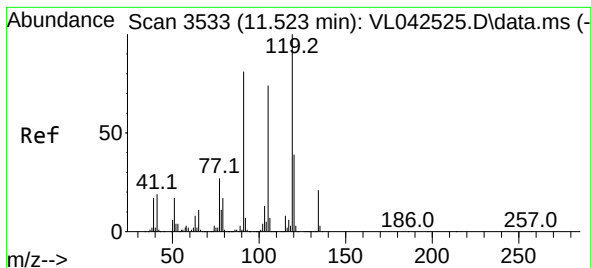
Tgt Ion: 83 Resp: 11693
 Ion Ratio Lower Upper
 83 100
 131 9.6 4.9 14.7
 85 65.2 32.3 96.8



#64
 n-propylbenzene
 Concen: 0.338 ppbv
 RT: 10.985 min Scan# 3367
 Delta R.T. 0.006 min
 Lab File: VL042528.D
 Acq: 12 May 2025 10:41

Tgt Ion: 120 Resp: 3758
 Ion Ratio Lower Upper
 120 100
 91 512.7 377.7 566.5





#65

tert-Butylbenzene

Concen: 0.344 ppbv

RT: 11.523 min Scan# 3533

Delta R.T. -0.000 min

Lab File: VL042528.D

Acq: 12 May 2025 10:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

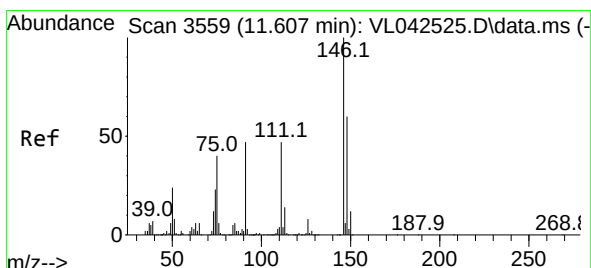
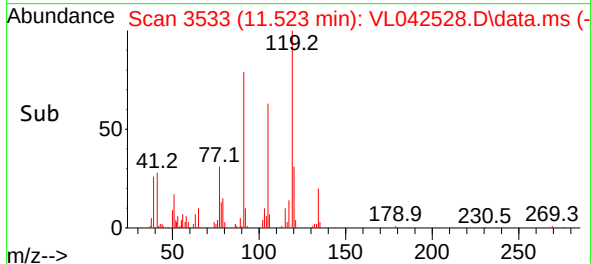
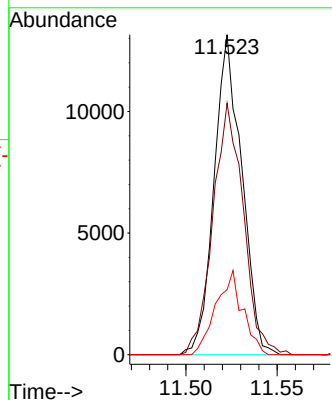
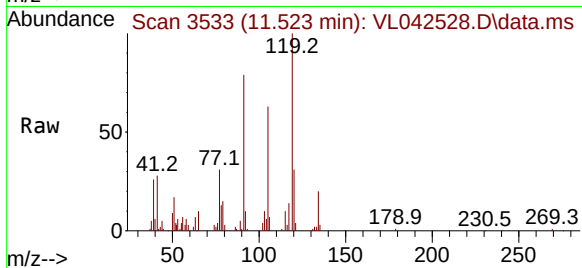
Tgt Ion:119 Resp: 13867

Ion Ratio Lower Upper

119 100

91 86.4 66.6 99.8

134 25.4 16.3 24.5#



#66

Benzyl Chloride

Concen: 0.208 ppbv

RT: 11.610 min Scan# 3560

Delta R.T. 0.003 min

Lab File: VL042528.D

Acq: 12 May 2025 10:41

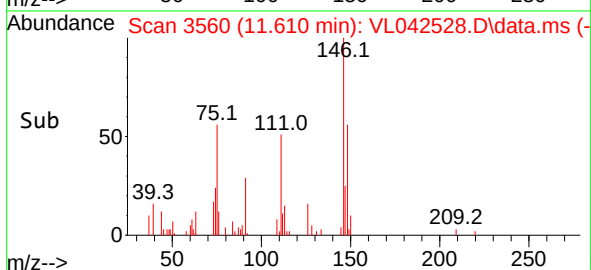
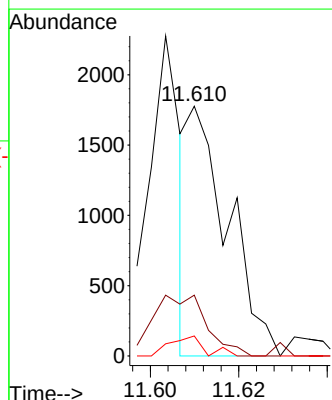
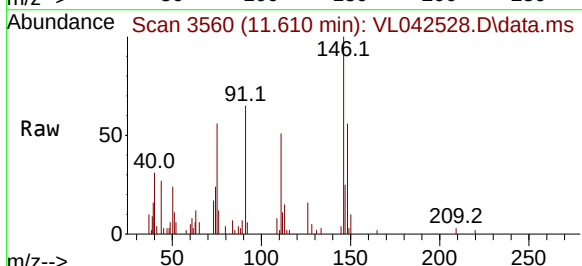
Tgt Ion: 91 Resp: 1111

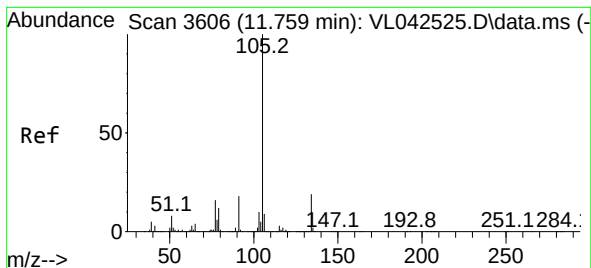
Ion Ratio Lower Upper

91 100

126 0.0 13.7 20.5#

128 7.0 4.2 6.2#





#67

sec-Butylbenzene

Concen: 0.368 ppbv

RT: 11.762 min Scan# 3607

Delta R.T. 0.003 min

Lab File: VL042528.D

Acq: 12 May 2025 10:41

Instrument :

MSVOA_1

ClientSampleId :

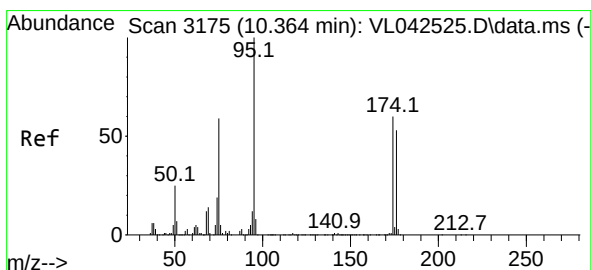
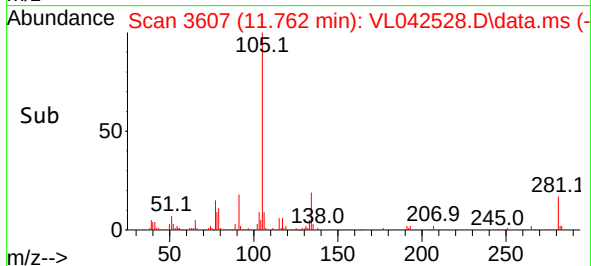
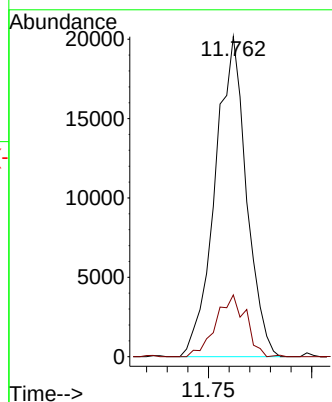
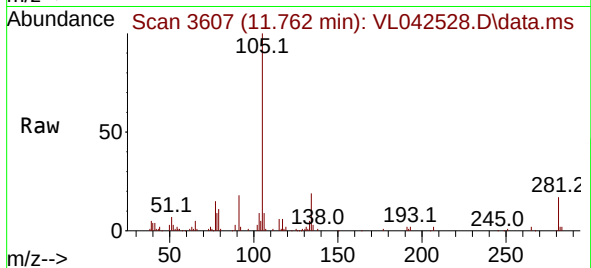
VSTDIC0.5

Tgt Ion:105 Resp: 21235

Ion Ratio Lower Upper

105 100

134 18.6 14.9 22.3



#68

1-Bromo-4-Fluorobenzene

Concen: 10.145 ppbv

RT: 10.367 min Scan# 3176

Delta R.T. 0.003 min

Lab File: VL042528.D

Acq: 12 May 2025 10:41

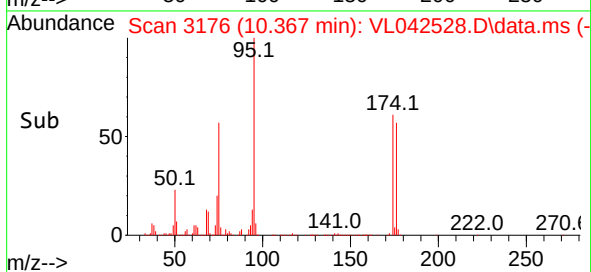
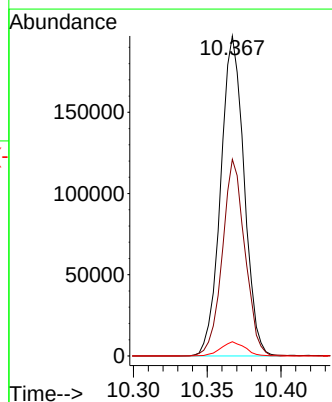
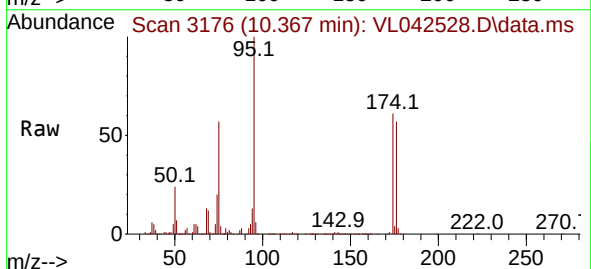
Tgt Ion: 95 Resp: 217536

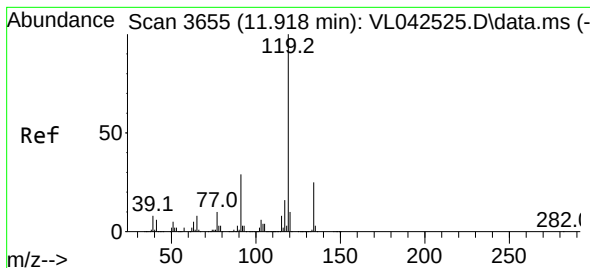
Ion Ratio Lower Upper

95 100

174 59.4 48.0 72.0

175 4.6 3.5 5.3

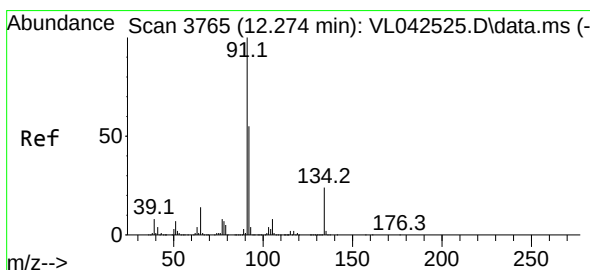
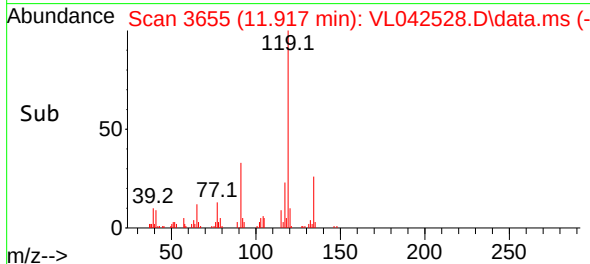
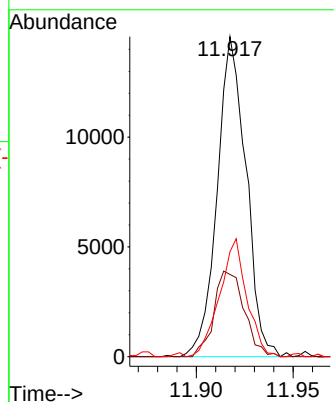
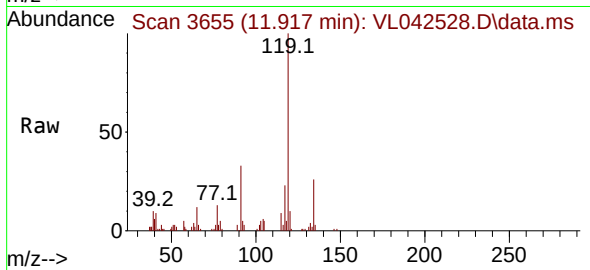




#69
 p-Isopropyltoluene
 Concen: 0.317 ppbv
 RT: 11.917 min Scan# 3655
 Delta R.T. -0.000 min
 Lab File: VL042528.D
 Acq: 12 May 2025 10:41

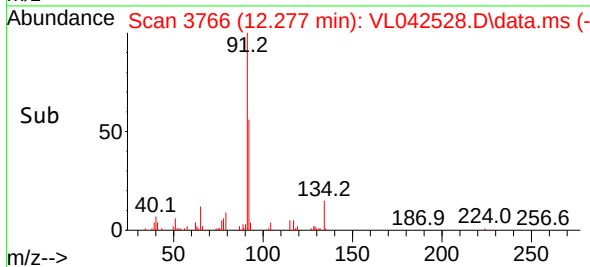
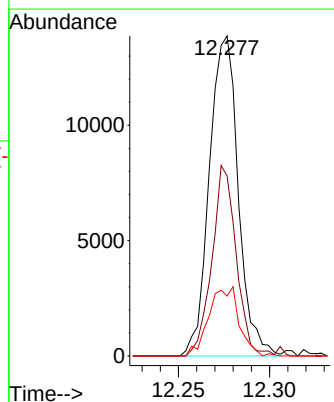
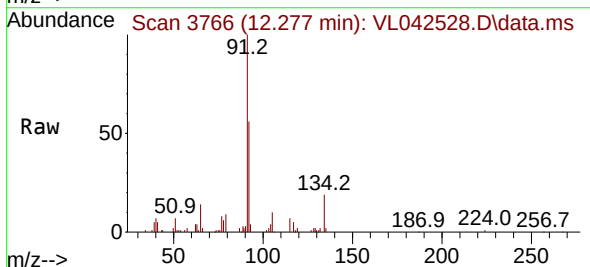
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

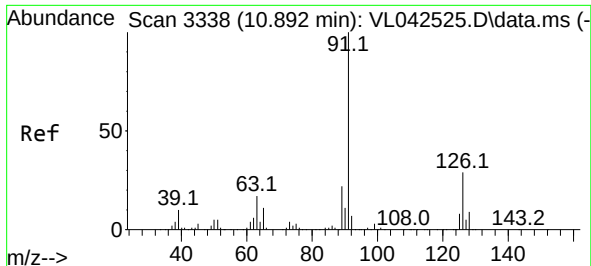
Tgt Ion:119 Resp: 15071
 Ion Ratio Lower Upper
 119 100
 134 28.1 19.8 29.6
 91 36.2 23.6 35.4#



#70
 n-Butylbenzene
 Concen: 0.326 ppbv
 RT: 12.277 min Scan# 3766
 Delta R.T. 0.003 min
 Lab File: VL042528.D
 Acq: 12 May 2025 10:41

Tgt Ion: 91 Resp: 15321
 Ion Ratio Lower Upper
 91 100
 92 50.6 43.7 65.5
 134 22.5 18.9 28.3

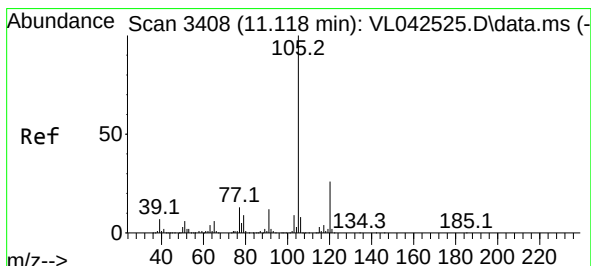
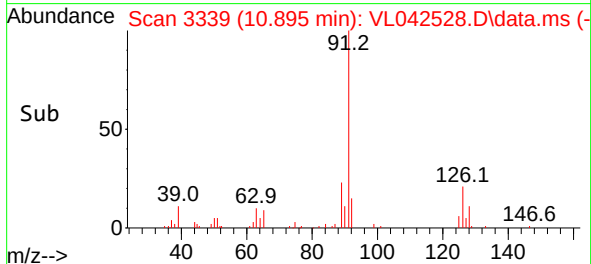
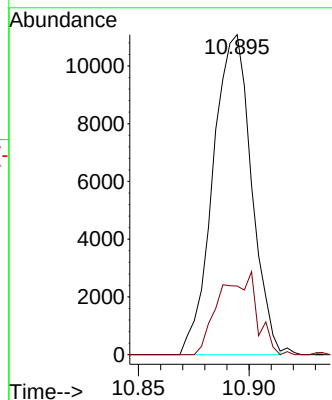
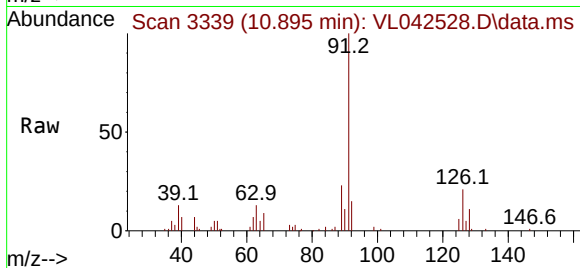




#71
2-Chlorotoluene
Concen: 0.404 ppbv
RT: 10.895 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

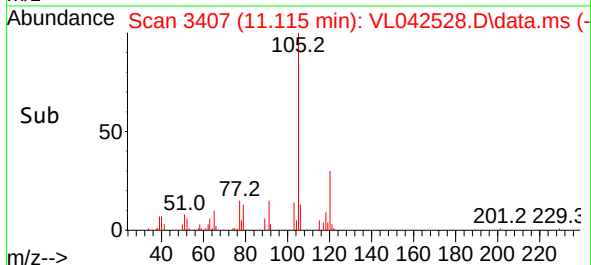
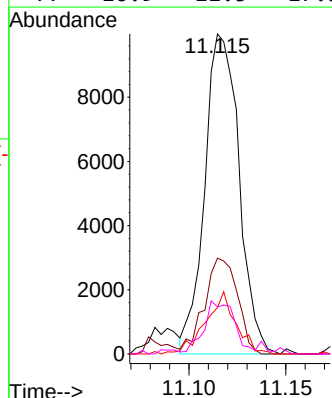
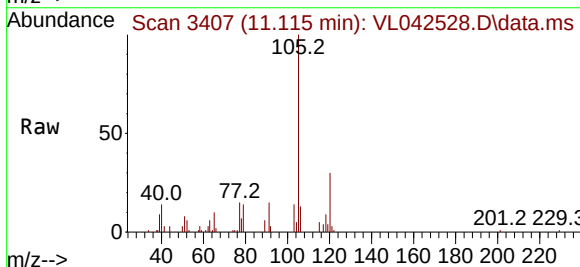
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC0.5

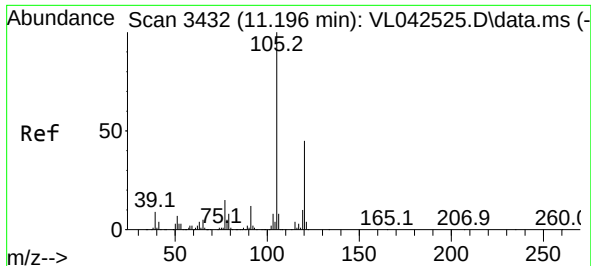
Tgt Ion: 91 Resp: 13426
Ion Ratio Lower Upper
91 100
126 25.4 11.4 45.6



#72
4-Ethyltoluene
Concen: 0.340 ppbv
RT: 11.115 min Scan# 3407
Delta R.T. -0.004 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

Tgt Ion: 105 Resp: 12284
Ion Ratio Lower Upper
105 100
120 31.9 22.9 34.3
91 17.2 10.9 16.3#
77 16.9 11.5 17.3

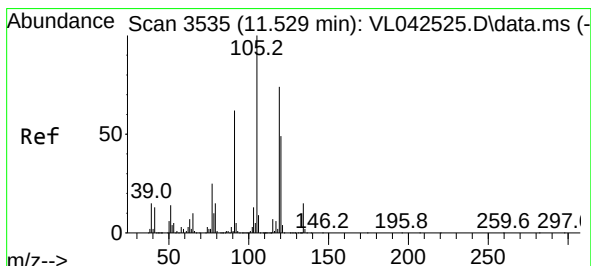
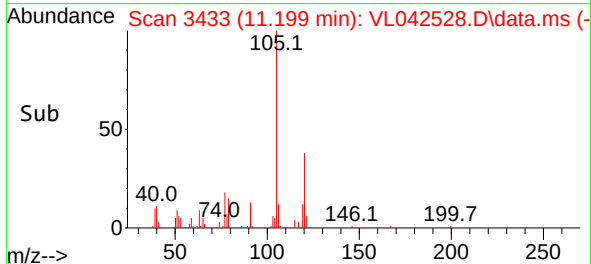
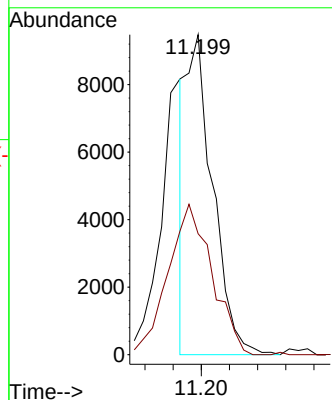
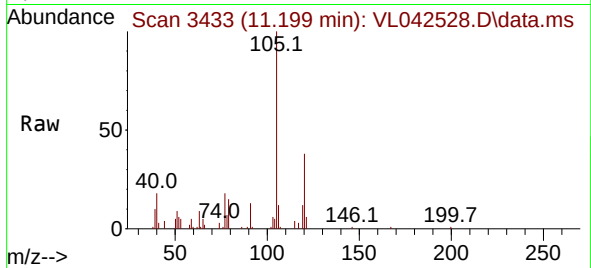




#73
1,3,5-Trimethylbenzene
Concen: 0.194 ppbv
RT: 11.199 min Scan# 3432
Delta R.T. 0.003 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

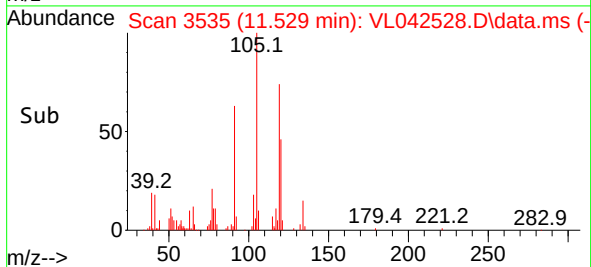
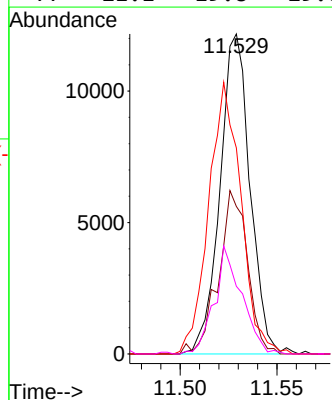
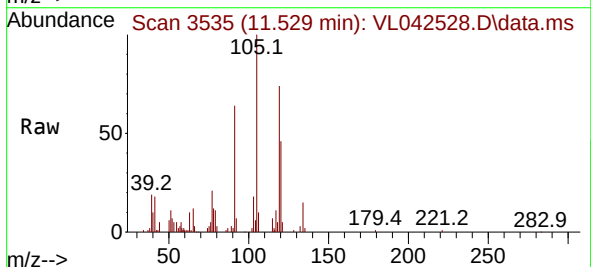
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

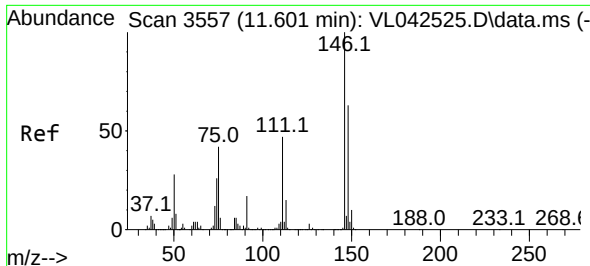
Tgt Ion:105 Resp: 6102
Ion Ratio Lower Upper
105 100
120 37.0 36.0 54.0



#74
1,2,4-Trimethylbenzene
Concen: 0.339 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. -0.000 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

Tgt Ion:105 Resp: 13113
Ion Ratio Lower Upper
105 100
120 46.1 39.0 58.6
91 63.6 49.4 74.2
77 21.1 19.8 29.6

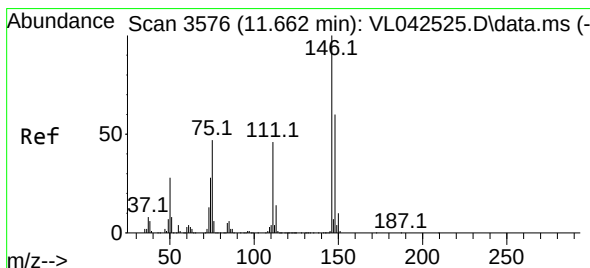
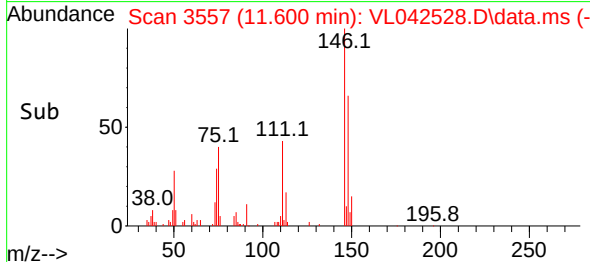
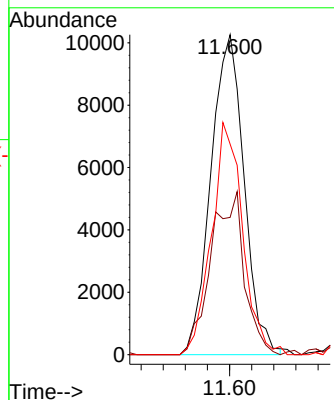
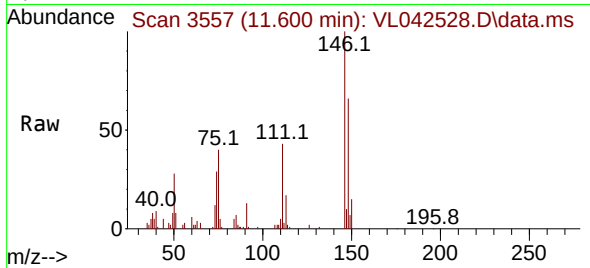




#75
1,3-Dichlorobenzene
Concen: 0.440 ppbv
RT: 11.600 min Scan# 3557
Delta R.T. -0.000 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

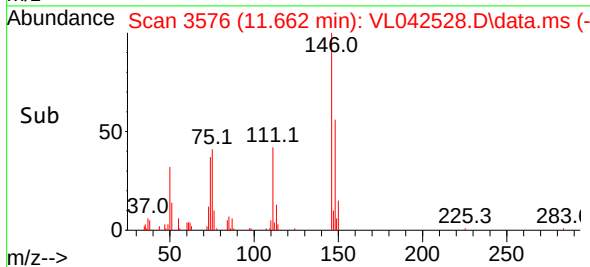
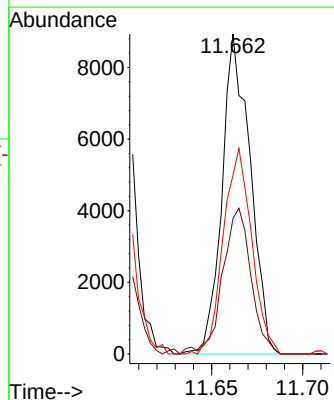
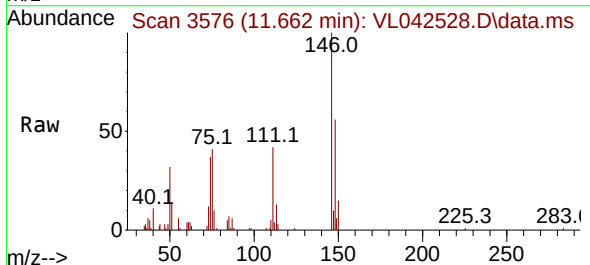
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

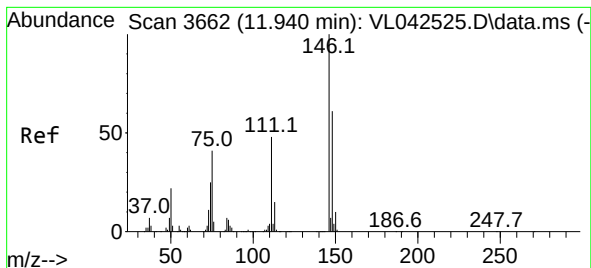
Tgt Ion:146 Resp: 10683
Ion Ratio Lower Upper
146 100
111 51.7 23.6 71.0
148 68.0 31.6 94.8



#76
1,4-Dichlorobenzene
Concen: 0.416 ppbv
RT: 11.662 min Scan# 3576
Delta R.T. -0.000 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

Tgt Ion:146 Resp: 9591
Ion Ratio Lower Upper
146 100
111 45.9 23.4 70.3
148 64.7 31.6 94.7





#77

1,2-Dichlorobenzene

Concen: 0.490 ppbv

RT: 11.940 min Scan# 3662

Delta R.T. -0.000 min

Lab File: VL042528.D

Acq: 12 May 2025 10:41

Instrument :

MSVOA_1

ClientSampleId :

VSTDICC0.5

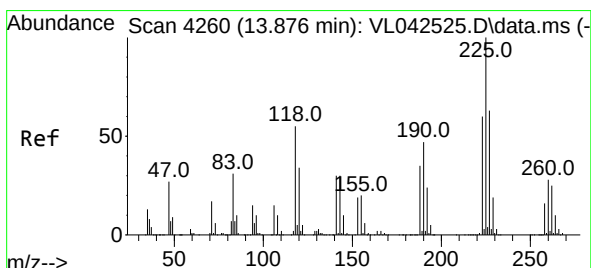
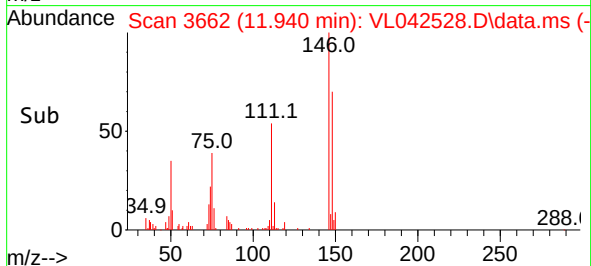
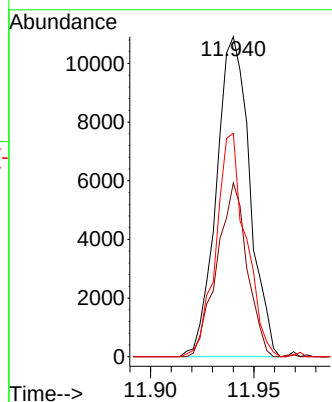
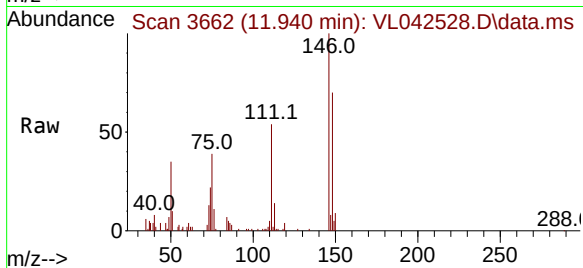
Tgt Ion:146 Resp: 12272

Ion Ratio Lower Upper

146 100

111 49.1 24.9 74.8

148 62.7 31.4 94.2



#78

Hexachloro-1,3-Butadiene

Concen: 0.537 ppbv

RT: 13.876 min Scan# 4260

Delta R.T. -0.000 min

Lab File: VL042528.D

Acq: 12 May 2025 10:41

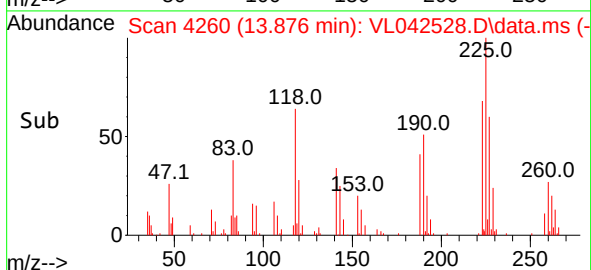
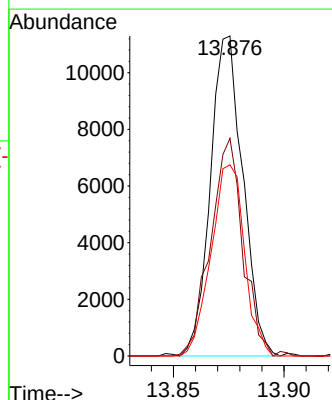
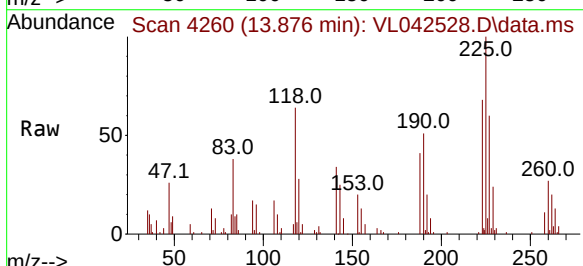
Tgt Ion:225 Resp: 11535

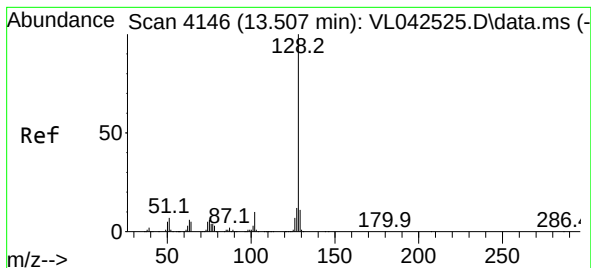
Ion Ratio Lower Upper

225 100

223 67.9 50.8 76.2

227 61.5 50.5 75.7





#79

Naphthalene

Concen: 0.304 ppbv

RT: 13.503 min Scan# 4145

Delta R.T. -0.004 min

Lab File: VL042528.D

Acq: 12 May 2025 10:41

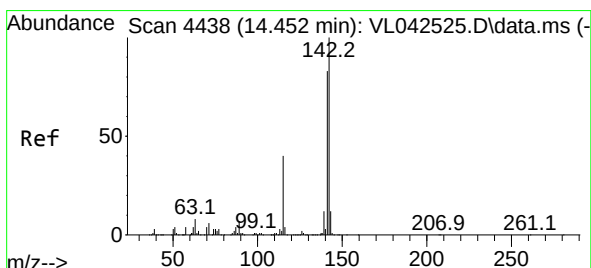
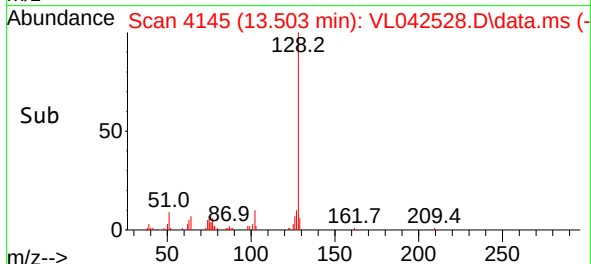
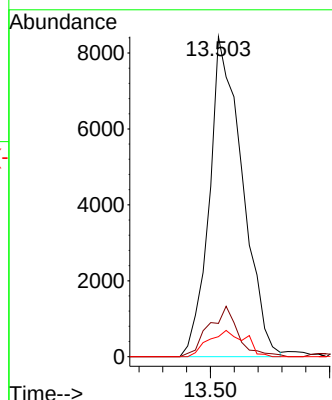
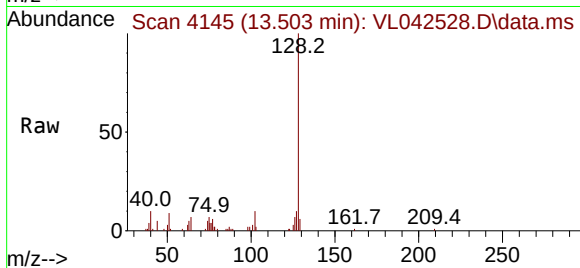
Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion:	128	Resp:	8133
Ion	Ratio	Lower	Upper
128	100		
127	10.4	9.8	14.8
129	6.2	8.6	12.8#



#80

Naphthalene, 2-methyl-

Concen: 0.188 ppbv

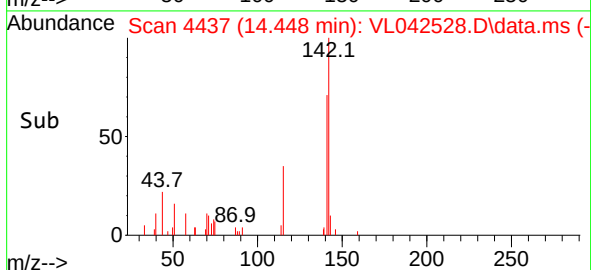
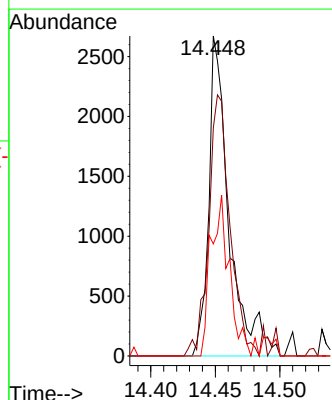
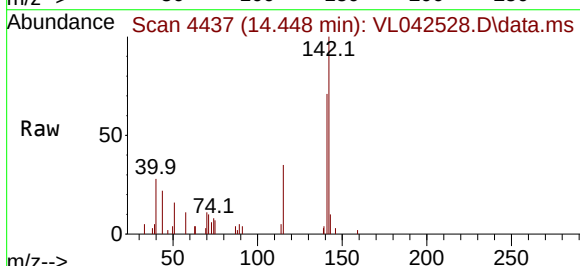
RT: 14.448 min Scan# 4437

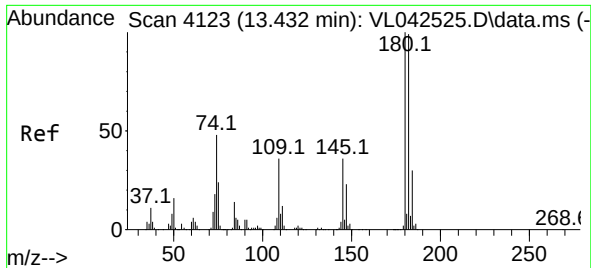
Delta R.T. -0.004 min

Lab File: VL042528.D

Acq: 12 May 2025 10:41

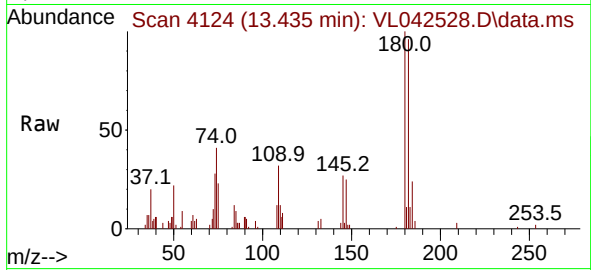
Tgt Ion:	142	Resp:	2920
Ion	Ratio	Lower	Upper
142	100		
141	89.7	66.8	100.2
115	50.6	33.0	49.6#



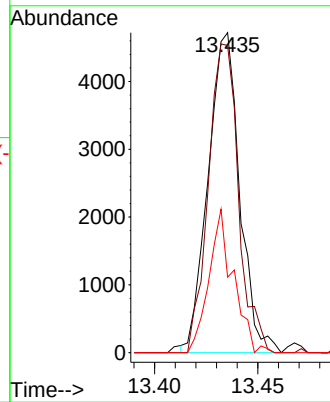
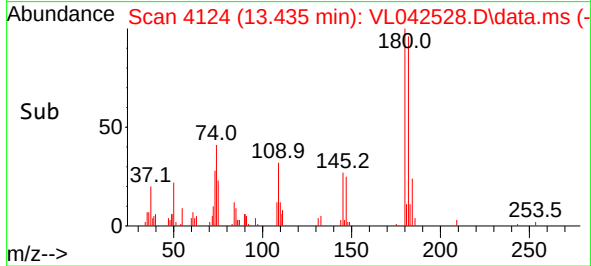


#81
 1,2,4-Trichlorobenzene
 Concen: 0.307 ppbv
 RT: 13.435 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL042528.D
 Acq: 12 May 2025 10:41

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



Tgt Ion:	180	Resp:	5016
Ion	Ratio	Lower	Upper
180	100		
182	92.7	76.6	114.8
184	34.5	24.6	36.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051225\
 Data File : VL042529.D
 Acq On : 12 May 2025 11:15
 Operator : SY/MD
 Sample : VSTDICC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.1

Quant Time: May 12 23:48:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Mon May 12 23:42:45 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.777	49	100628	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.946	114	280717	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.869	117	240256	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.367	95	201627	9.645	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.500%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.547	85	1498	0.092	ppbv	90
3) Chlorodifluoromethane	1.470	51	2137	0.128	ppbv	91
4) Chloromethane	1.525	50	1000	0.150	ppbv #	67
5) Vinyl Chloride	1.573	62	809	0.119	ppbv #	81
6) Bromomethane	1.664	94	486	0.150	ppbv #	60
7) Chloroethane	1.700	64	256	0.095	ppbv #	43
8) Dichlorotetrafluoroethane	1.547	85	1498	0.107	ppbv #	78
9) Propene	1.483	41	98	0.027	ppbv #	85
10) Heptane	4.962	43	342	0.025	ppbv #	1
11) Trichlorofluoromethane	1.868	101	1910	0.122	ppbv	93
12) 1,1,2-Trichlorotrifluo...	2.130	101	1510	0.120	ppbv	88
13) Ethanol	1.716	45	327	0.331	ppbv	64
14) Bromoethene	1.774	108	419	0.091	ppbv #	27
15) Acetone	1.832	43	3316	0.206	ppbv	97
16) 1,3-Butadiene	1.602	39	1125	0.156	ppbv	89
17) tert-Butyl alcohol	2.036	59	1734	0.117	ppbv #	78
18) 1,1-Dichloroethene	2.026	96	653	0.118	ppbv #	80
19) Isopropyl Alcohol	1.881	45	1243	0.142	ppbv #	95
20) Methylene Chloride	2.049	84	1481	0.265	ppbv #	76
21) Allyl Chloride	2.088	41	1337	0.126	ppbv #	41
22) trans-1,2-Dichloroethene	2.331	96	774	0.120	ppbv	85
23) Vinyl Acetate	2.457	43	2412	0.143	ppbv #	51
24) 1,1-Dichloroethane	2.402	63	1550	0.124	ppbv	99
25) Ethyl Acetate	2.832	43	1976	0.070	ppbv #	87
26) Hexane	2.816	57	983	0.085	ppbv #	2
27) Carbon Disulfide	2.140	76	1657	0.111	ppbv #	1
28) Methyl tert-Butyl Ether	2.434	73	803	0.125	ppbv #	81
29) Chloroform	2.839	83	2409	0.100	ppbv	93
30) Cyclohexane	3.836	84	610	0.064	ppbv #	62
31) cis-1,2-Dichloroethene	2.331	61	1417	0.108	ppbv	96
32) 1,1,1-Trichloroethane	3.353	97	2575	0.106	ppbv	95
34) 2-Butanone	2.554	43	2094	0.113	ppbv	94
35) Carbon Tetrachloride	3.745	117	1669	0.066	ppbv #	80
36) Benzene	3.645	78	2494	0.100	ppbv #	77
37) 1,2-Dichloroethane	3.208	62	1682	0.095	ppbv	99
38) Trichloroethene	4.528	130	695	0.065	ppbv #	28
39) 1,2-Dichloropropane	3.942	63	71407	7.711	ppbv #	17
40) 1,4-Dioxane	4.600	88	224	0.061	ppbv #	18
41) Tetrahydrofuran	3.043	42	50	0.006	ppbv #	36
42) Bromodichloromethane	4.480	83	1535	0.065	ppbv #	78
43) Methyl Methacrylate	4.865	69	289	0.035	ppbv #	1
44) 2,2,4-Trimethylpentane	4.629	57	1172	0.030	ppbv #	6
45) t-1,3-Dichloropropene	6.383	75	127	0.012	ppbv	97

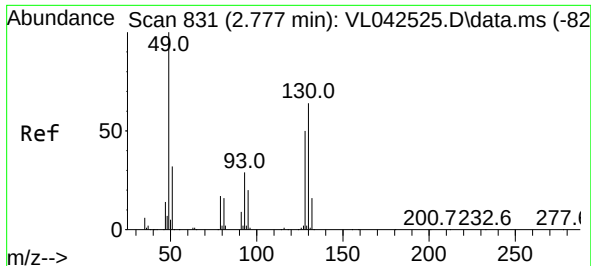
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 Data File : VL042529.D
 Acq On : 12 May 2025 11:15
 Operator : SY/MD
 Sample : VSTDIC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

Quant Time: May 12 23:48:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Mon May 12 23:42:45 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.583	75	510	0.040	ppbv #	57
47) 1,1,2-Trichloroethane	6.564	97	297	0.027	ppbv #	29
48) Dibromochloromethane	7.370	129	632	0.035	ppbv #	1
49) Bromoform	9.474	173	723	0.048	ppbv #	5
50) 4-Methyl-2-Pentanone	5.729	43	50	0.002	ppbv #	39
51) 2-Hexanone	7.432	43	578	0.036	ppbv #	38
52) Tetrachloroethene	8.212	164	785	0.082	ppbv #	80
53) Toluene	6.901	91	444	0.018	ppbv #	1
54) 1,2-Dibromoethane	7.852	107	40	0.003	ppbv	92
56) 1,1,1,2-Tetrachloroethane	8.917	131	779	0.052	ppbv #	1
57) Chlorobenzene	8.908	112	2579	0.107	ppbv	96
58) Ethyl Benzene	9.542	91	921	0.028	ppbv	90
59) m/p-Xylene	9.542	91	921	0.032	ppbv #	100
60) o-Xylene	9.950	91	1267	0.045	ppbv #	33
61) Styrene	9.856	104	508	0.049	ppbv #	52
62) Isopropylbenzene	10.532	105	1683	0.039	ppbv #	61
63) 1,1,2,2-Tetrachloroethane	9.950	83	2194	0.096	ppbv	97
64) n-propylbenzene	10.982	120	565	0.052	ppbv	88
65) tert-Butylbenzene	11.526	119	809	0.021	ppbv #	1
66) Benzyl Chloride	11.604	91	329	0.063	ppbv #	66
67) sec-Butylbenzene	11.762	105	1718	0.031	ppbv #	88
69) p-Isopropyltoluene	11.918	119	2080	0.045	ppbv	95
70) n-Butylbenzene	12.270	91	1876	0.041	ppbv #	87
71) 2-Chlorotoluene	10.532	91	67	0.002	ppbv	97
72) 4-Ethyltoluene	11.121	105	738	0.021	ppbv #	45
73) 1,3,5-Trimethylbenzene	11.196	105	1777	0.058	ppbv #	54
74) 1,2,4-Trimethylbenzene	11.526	105	1921	0.051	ppbv #	83
75) 1,3-Dichlorobenzene	11.607	146	536	0.023	ppbv #	1
76) 1,4-Dichlorobenzene	11.662	146	835	0.037	ppbv #	23
77) 1,2-Dichlorobenzene	11.940	146	1567	0.064	ppbv	75
78) Hexachloro-1,3-Butadiene	13.876	225	2199	0.105	ppbv	93
79) Naphthalene	13.510	128	1152	0.044	ppbv #	68
80) Naphthalene,2-methyl-	14.458	142	372	0.025	ppbv #	74
81) 1,2,4-Trichlorobenzene	13.429	180	179	0.011	ppbv #	12

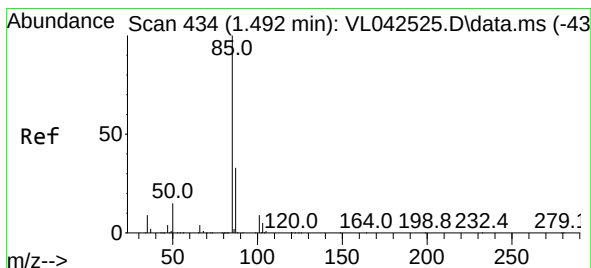
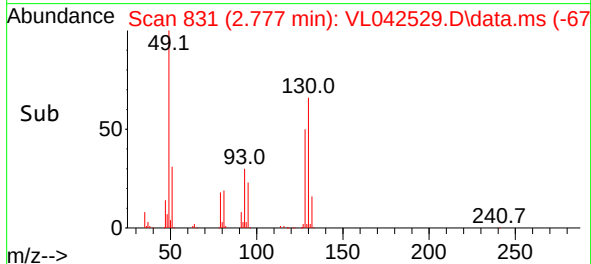
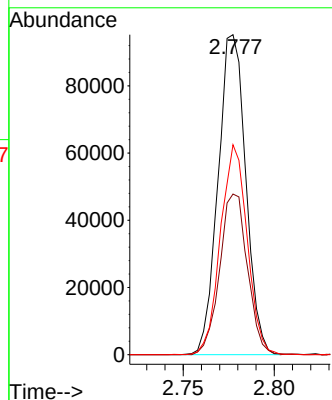
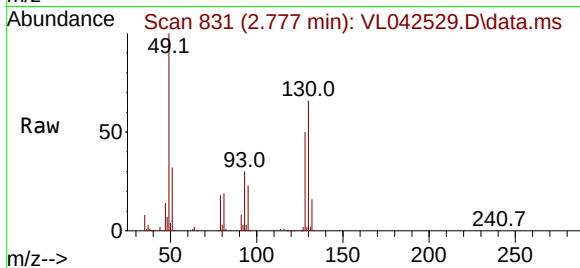
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.777 min Scan# 81
Delta R.T. 0.000 min
Lab File: VL042529.D
Acq: 12 May 2025 11:15

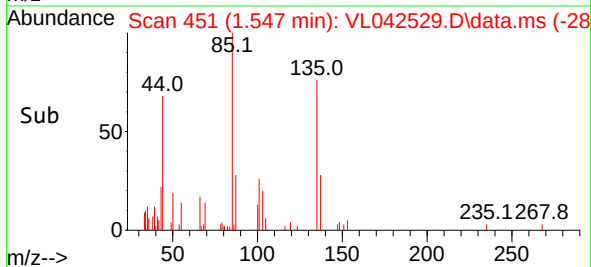
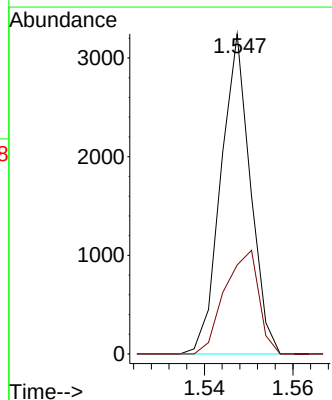
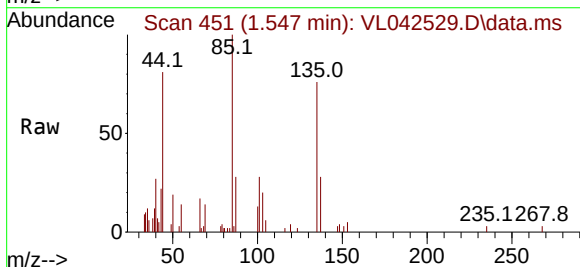
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

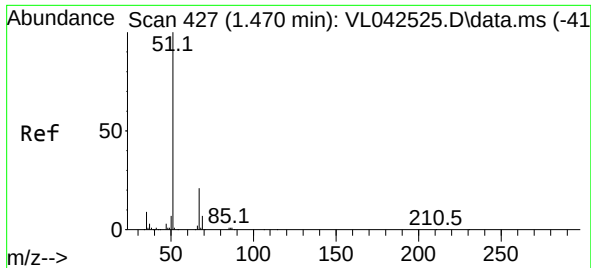
Tgt Ion: 49 Resp: 100628
Ion Ratio Lower Upper
49 100
128 50.3 24.9 74.6
130 63.2 32.5 97.5



#2
Dichlorodifluoromethane
Concen: 0.092 ppbv
RT: 1.547 min Scan# 451
Delta R.T. 0.055 min
Lab File: VL042529.D
Acq: 12 May 2025 11:15

Tgt Ion: 85 Resp: 1498
Ion Ratio Lower Upper
85 100
87 27.8 26.8 40.2

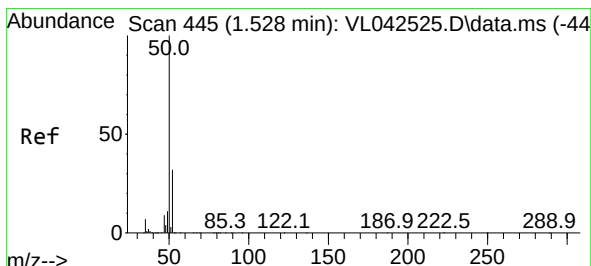
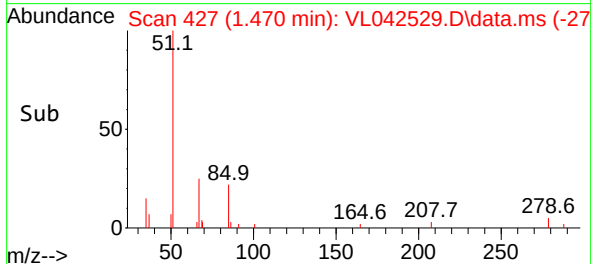
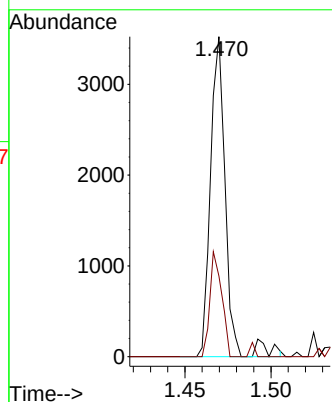
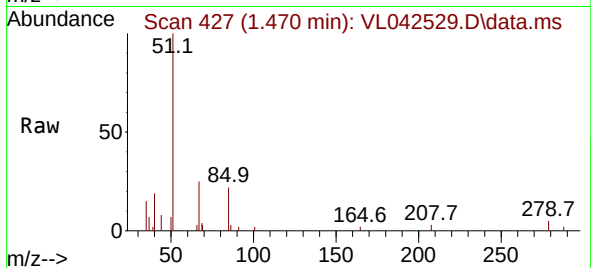




#3
Chlorodifluoromethane
Concen: 0.128 ppbv
RT: 1.470 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042529.D
Acq: 12 May 2025 11:15

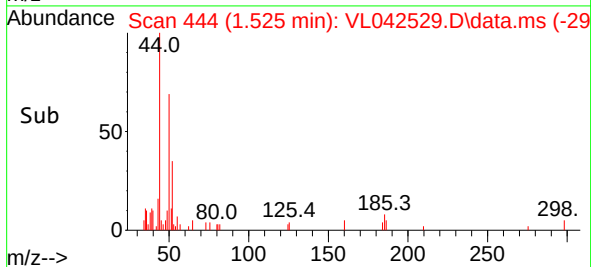
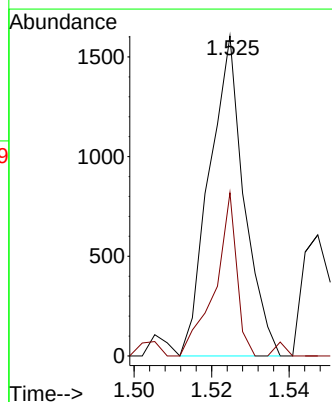
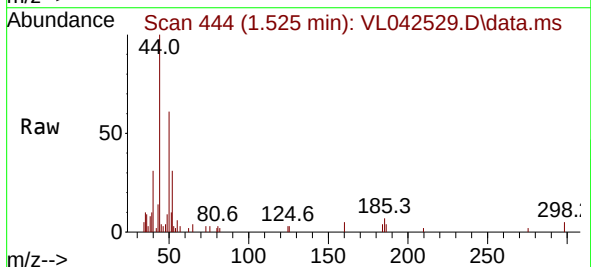
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

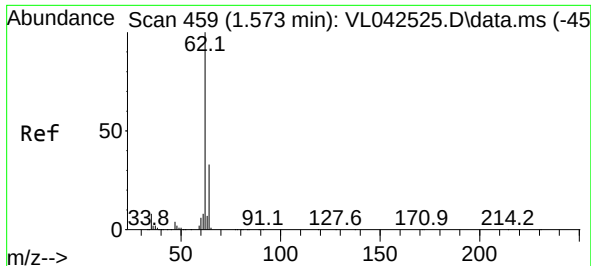
Tgt Ion: 51 Resp: 2137
Ion Ratio Lower Upper
51 100
67 25.8 17.4 26.0



#4
Chloromethane
Concen: 0.150 ppbv
RT: 1.525 min Scan# 444
Delta R.T. -0.003 min
Lab File: VL042529.D
Acq: 12 May 2025 11:15

Tgt Ion: 50 Resp: 1000
Ion Ratio Lower Upper
50 100
52 51.0 25.9 38.9#

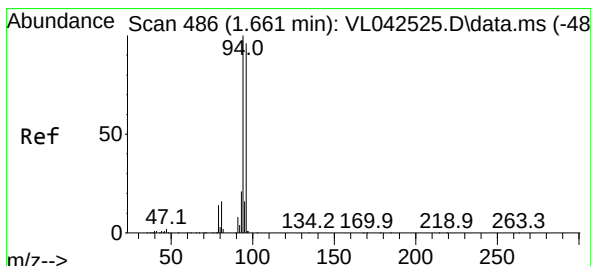
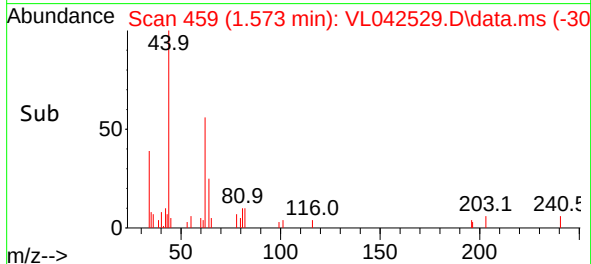
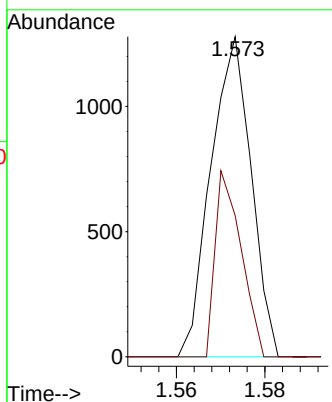
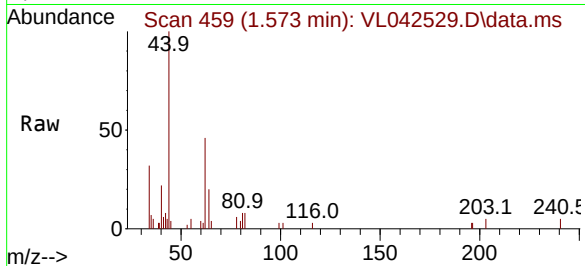




#5
 Vinyl Chloride
 Concen: 0.119 ppbv
 RT: 1.573 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL042529.D
 Acq: 12 May 2025 11:15

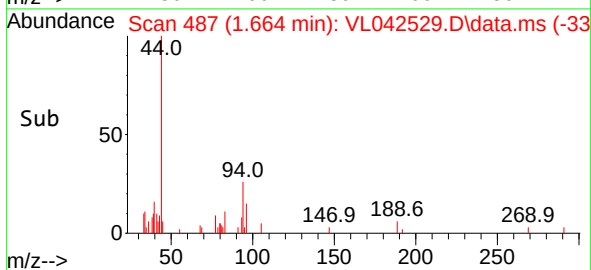
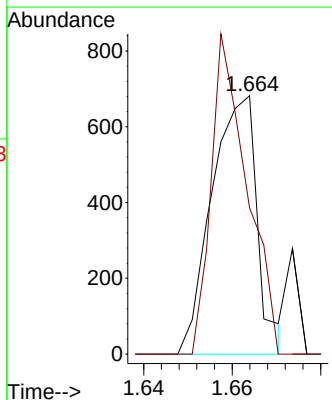
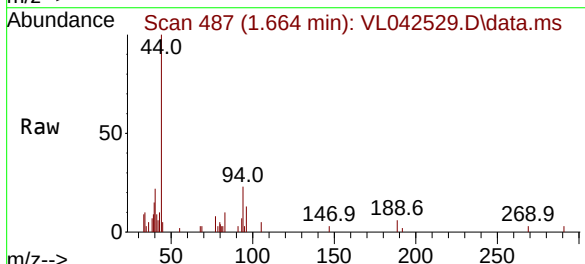
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

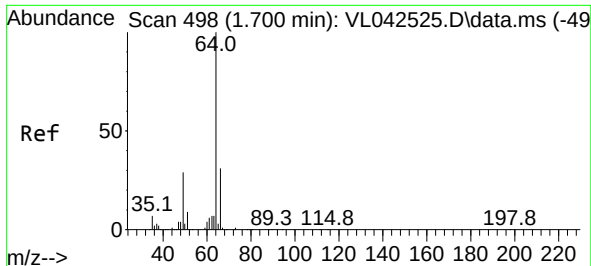
Tgt Ion: 62 Resp: 809
 Ion Ratio Lower Upper
 62 100
 64 44.1 26.5 39.7#



#6
 Bromomethane
 Concen: 0.150 ppbv
 RT: 1.664 min Scan# 487
 Delta R.T. 0.003 min
 Lab File: VL042529.D
 Acq: 12 May 2025 11:15

Tgt Ion: 94 Resp: 486
 Ion Ratio Lower Upper
 94 100
 96 56.6 76.9 115.3#

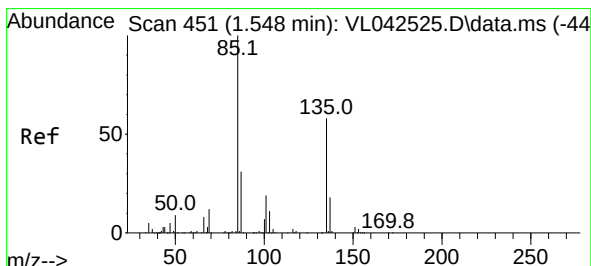
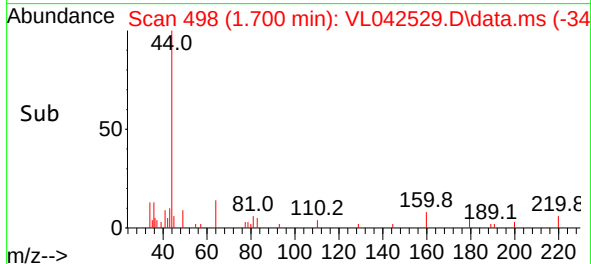
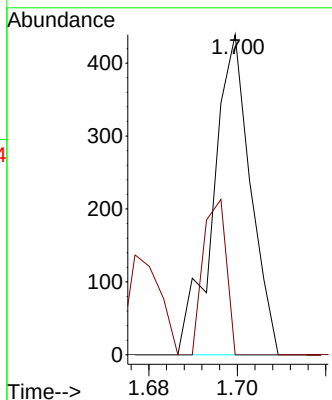
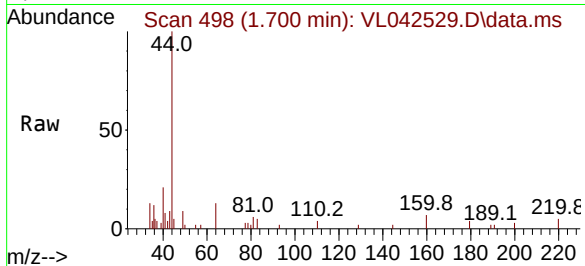




#7
Chloroethane
Concen: 0.095 ppbv
RT: 1.700 min Scan# 498
Delta R.T. -0.000 min
Lab File: VL042529.D
Acq: 12 May 2025 11:15

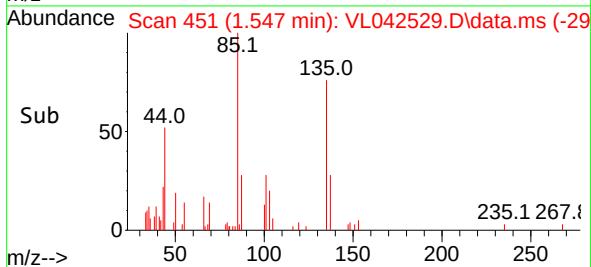
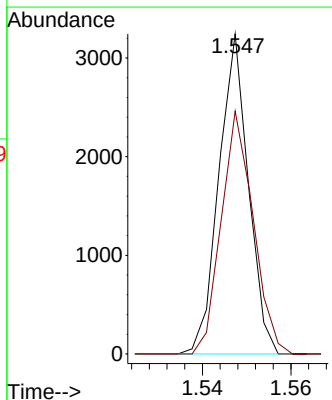
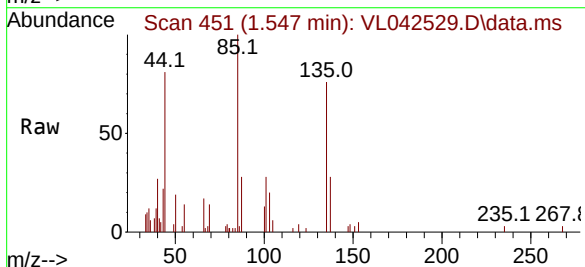
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

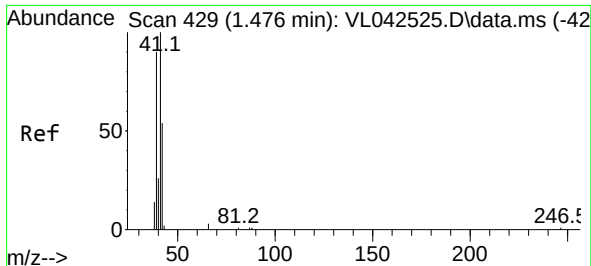
Tgt Ion: 64 Resp: 256
Ion Ratio Lower Upper
64 100
66 0.0 25.1 37.7#



#8
Dichlorotetrafluoroethane
Concen: 0.107 ppbv
RT: 1.547 min Scan# 451
Delta R.T. -0.000 min
Lab File: VL042529.D
Acq: 12 May 2025 11:15

Tgt Ion: 85 Resp: 1498
Ion Ratio Lower Upper
85 100
135 82.3 51.8 77.8#





#9

Propene

Concen: 0.027 ppbv

RT: 1.483 min Scan# 41

Delta R.T. 0.006 min

Lab File: VL042529.D

Acq: 12 May 2025 11:15

Instrument :

MSVOA_1

ClientSampleId :

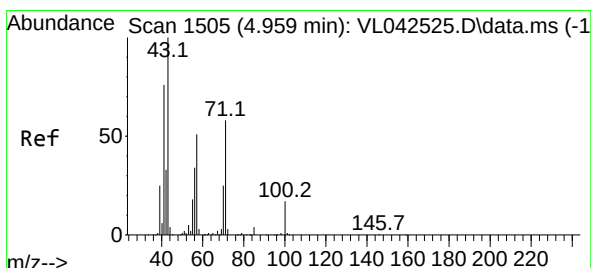
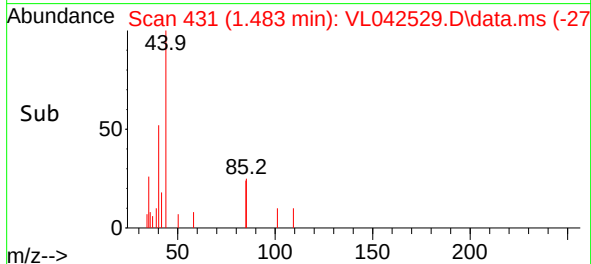
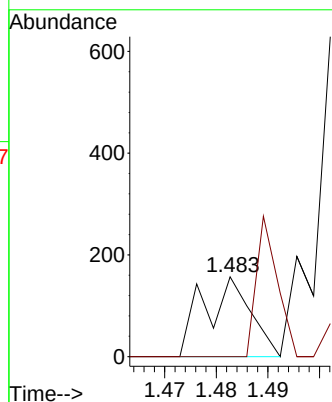
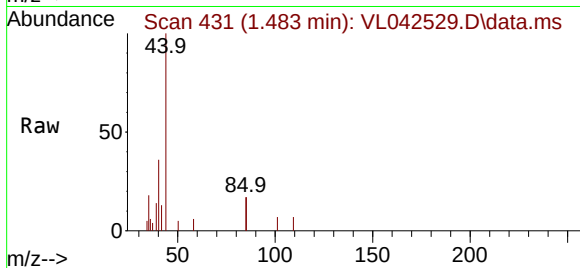
VSTDIC0.1

Tgt Ion: 41 Resp: 98

Ion Ratio Lower Upper

41 100

42 0.0 4.1 6.1#



#10

Heptane

Concen: 0.025 ppbv

RT: 4.962 min Scan# 1506

Delta R.T. 0.003 min

Lab File: VL042529.D

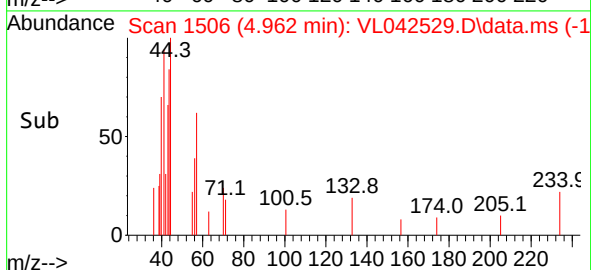
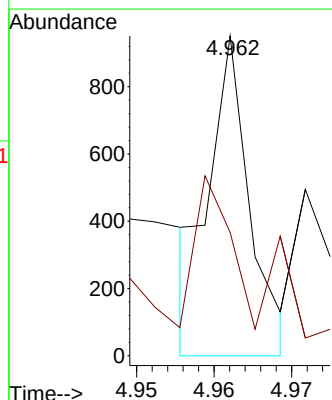
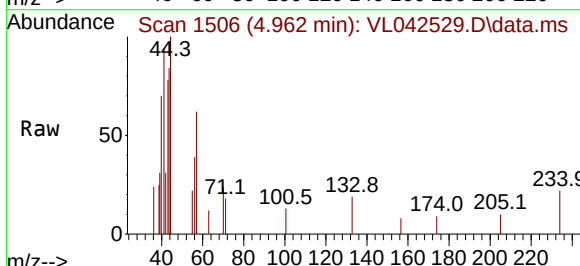
Acq: 12 May 2025 11:15

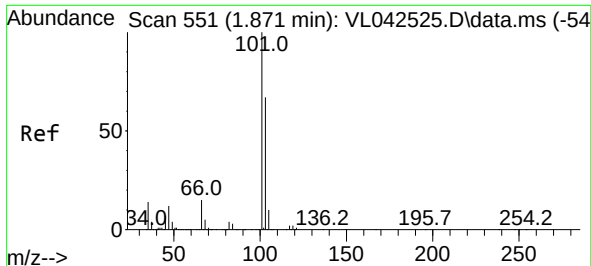
Tgt Ion: 43 Resp: 342

Ion Ratio Lower Upper

43 100

57 130.4 42.1 63.1#

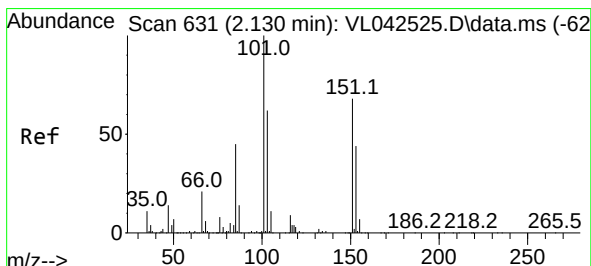
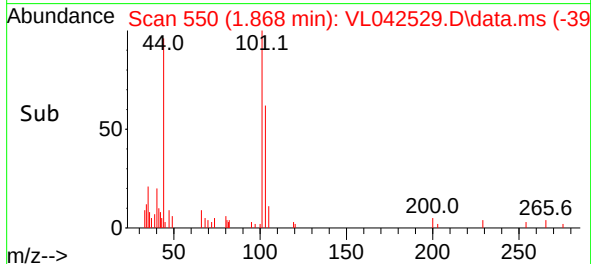
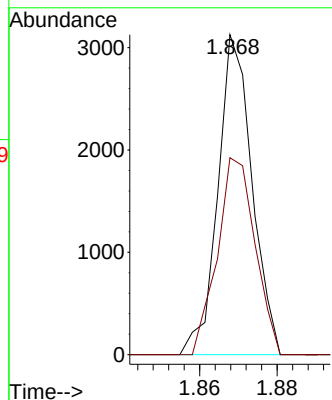
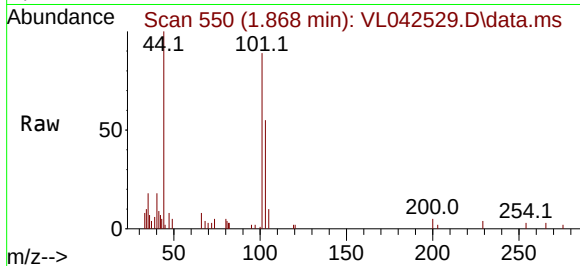




#11
 Trichlorofluoromethane
 Concen: 0.122 ppbv
 RT: 1.868 min Scan# 551
 Delta R.T. -0.003 min
 Lab File: VL042529.D
 Acq: 12 May 2025 11:15

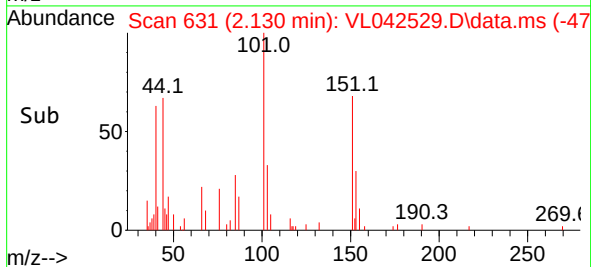
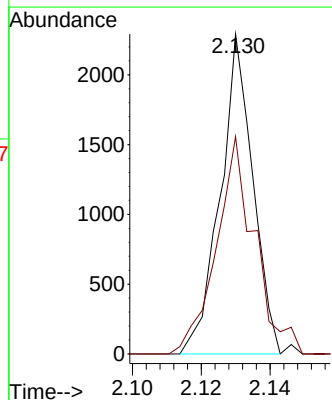
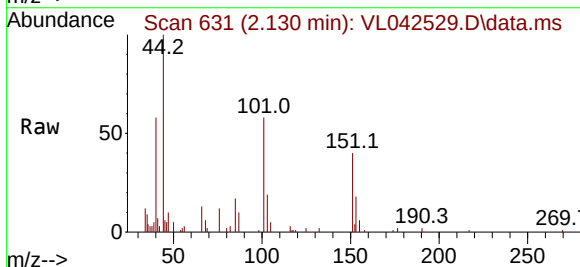
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

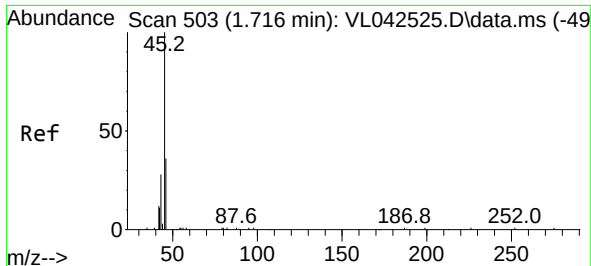
Tgt Ion:101 Resp: 1910
 Ion Ratio Lower Upper
 101 100
 103 61.6 53.8 80.6



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.120 ppbv
 RT: 2.130 min Scan# 631
 Delta R.T. -0.000 min
 Lab File: VL042529.D
 Acq: 12 May 2025 11:15

Tgt Ion:101 Resp: 1510
 Ion Ratio Lower Upper
 101 100
 151 82.3 57.8 86.8

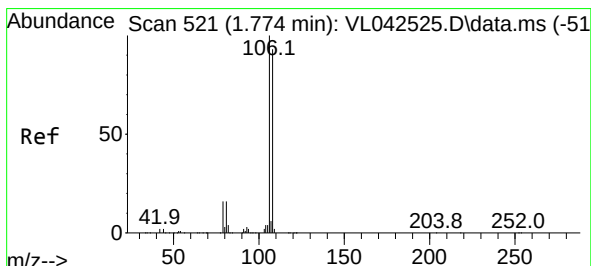
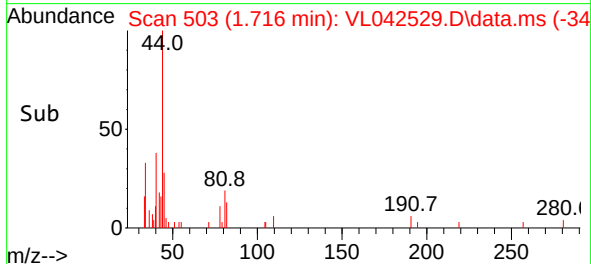
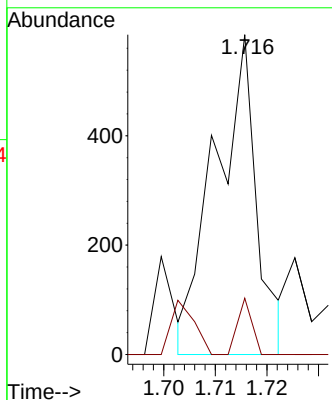
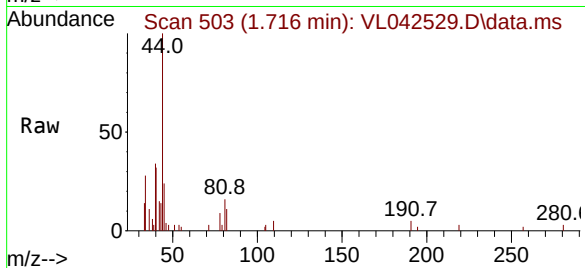




#13
Ethanol
Concen: 0.331 ppbv
RT: 1.716 min Scan# 503
Delta R.T. -0.000 min
Lab File: VL042529.D
Acq: 12 May 2025 11:15

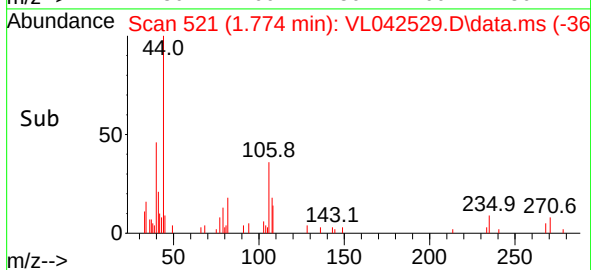
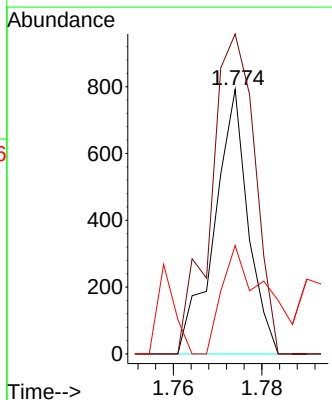
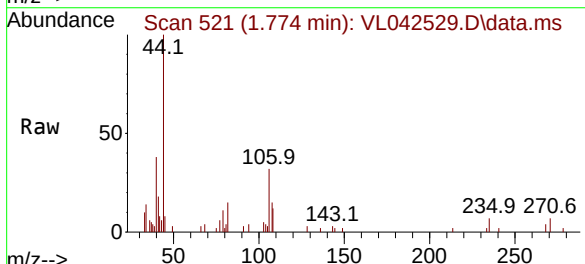
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

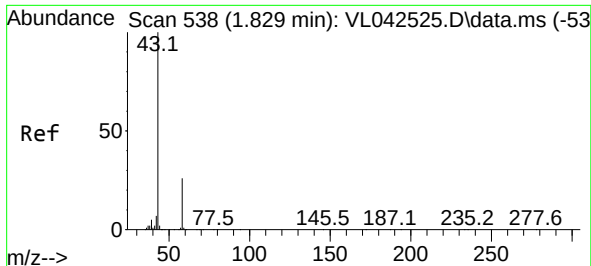
Tgt Ion: 45 Resp: 327
Ion Ratio Lower Upper
45 100
46 15.6 14.8 59.4



#14
Bromoethene
Concen: 0.091 ppbv
RT: 1.774 min Scan# 521
Delta R.T. -0.000 min
Lab File: VL042529.D
Acq: 12 May 2025 11:15

Tgt Ion: 108 Resp: 419
Ion Ratio Lower Upper
108 100
106 157.5 87.4 131.2#
79 122.0 15.1 22.7#

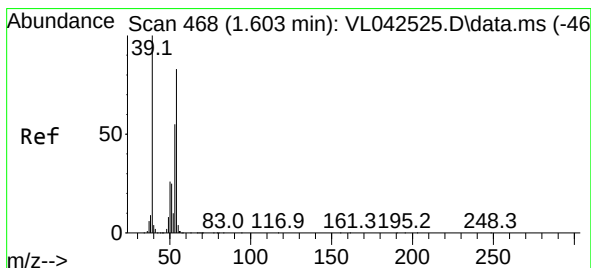
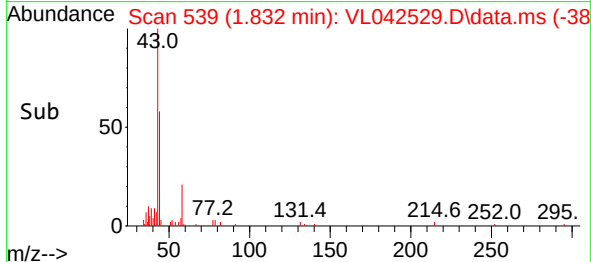
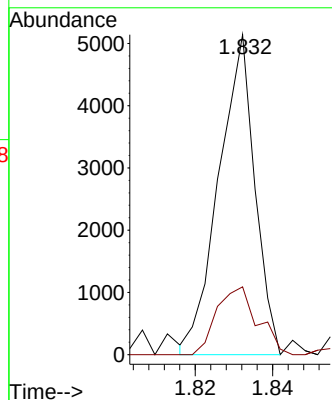
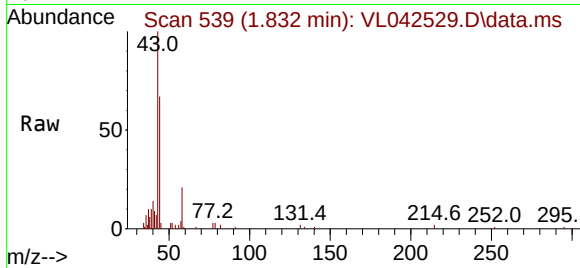




#15
Acetone
Concen: 0.206 ppbv
RT: 1.832 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042529.D
Acq: 12 May 2025 11:15

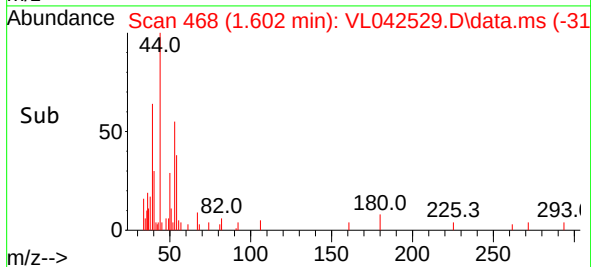
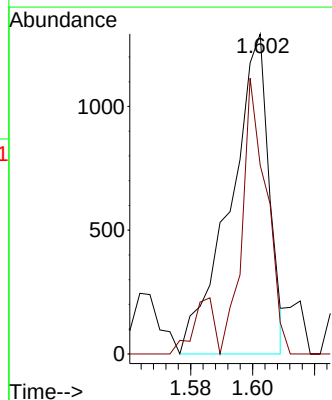
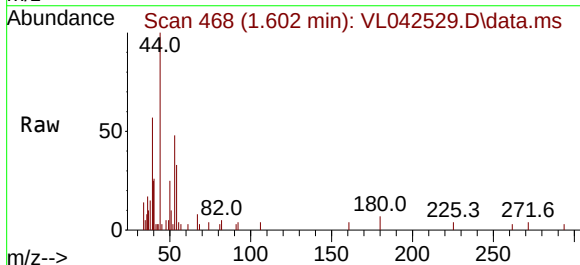
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

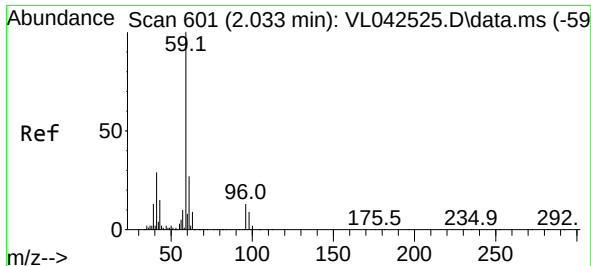
Tgt Ion: 43 Resp: 3316
Ion Ratio Lower Upper
43 100
58 28.1 21.3 31.9



#16
1,3-Butadiene
Concen: 0.156 ppbv
RT: 1.602 min Scan# 468
Delta R.T. -0.000 min
Lab File: VL042529.D
Acq: 12 May 2025 11:15

Tgt Ion: 39 Resp: 1125
Ion Ratio Lower Upper
39 100
54 63.2 57.8 86.6





#17

tert-Butyl alcohol

Concen: 0.117 ppbv

RT: 2.036 min Scan# 601

Delta R.T. 0.003 min

Lab File: VL042529.D

Acq: 12 May 2025 11:15

Instrument :

MSVOA_1

ClientSampleId :

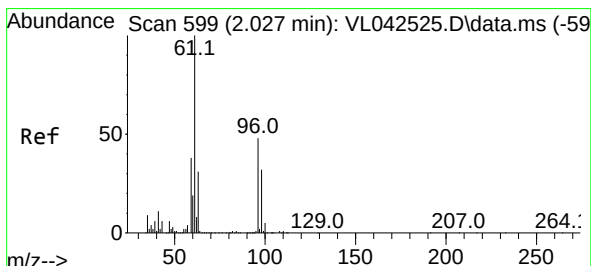
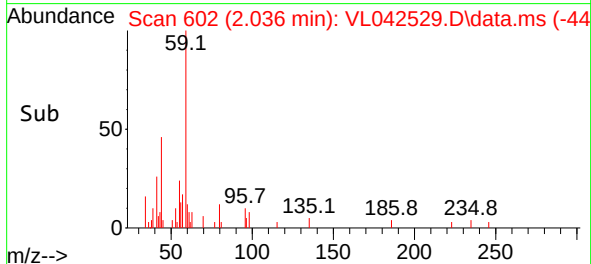
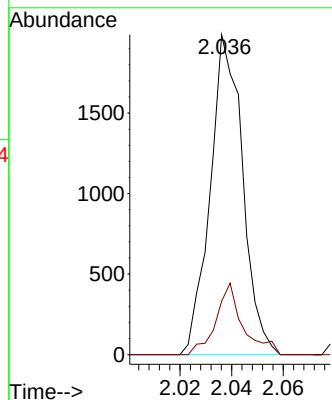
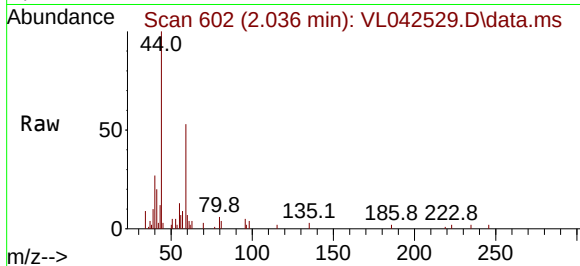
VSTDIC0.1

Tgt Ion: 59 Resp: 1734

Ion Ratio Lower Upper

59 100

57 18.5 8.2 12.4#



#18

1,1-Dichloroethene

Concen: 0.118 ppbv

RT: 2.026 min Scan# 599

Delta R.T. -0.000 min

Lab File: VL042529.D

Acq: 12 May 2025 11:15

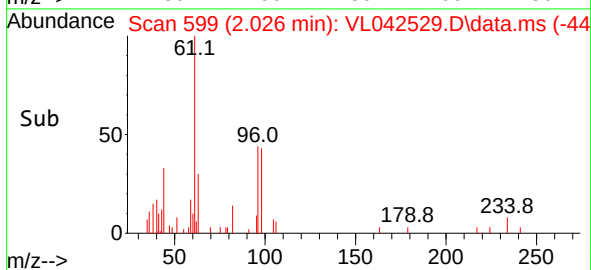
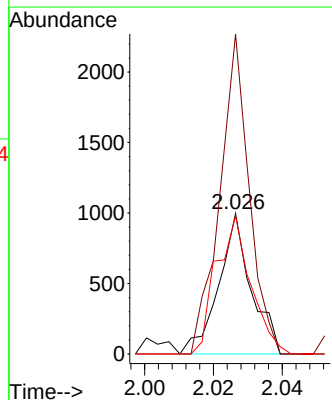
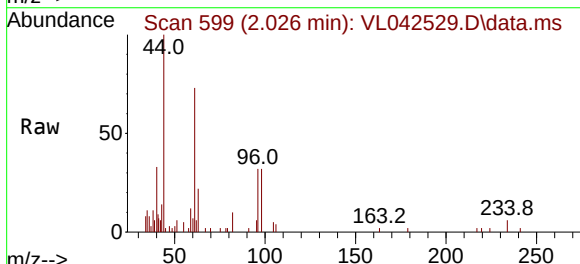
Tgt Ion: 96 Resp: 653

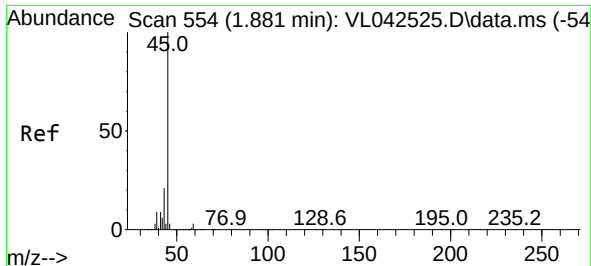
Ion Ratio Lower Upper

96 100

61 227.7 165.0 247.4

98 98.3 52.6 79.0#

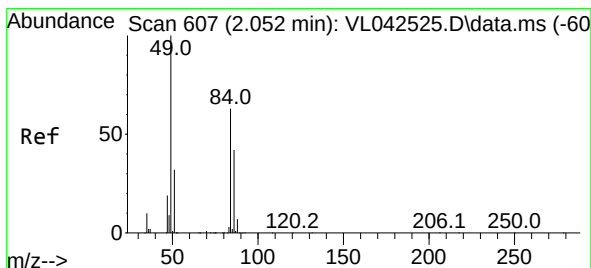
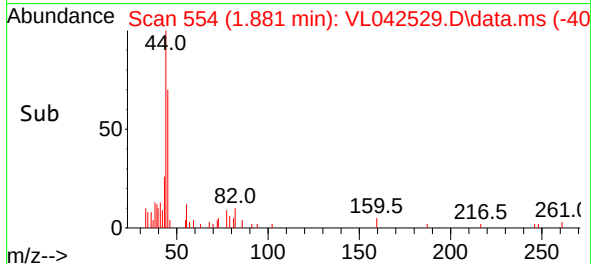
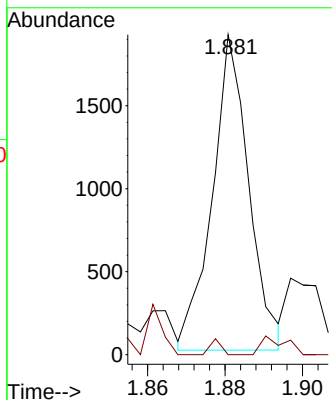
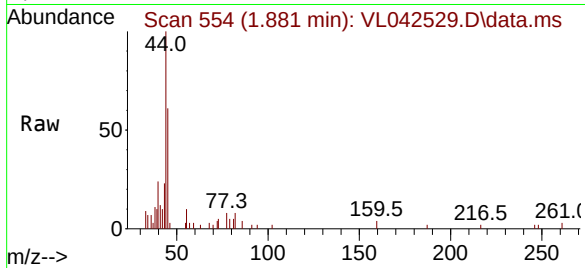




#19
Isopropyl Alcohol
Concen: 0.142 ppbv
RT: 1.881 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL042529.D
Acq: 12 May 2025 11:15

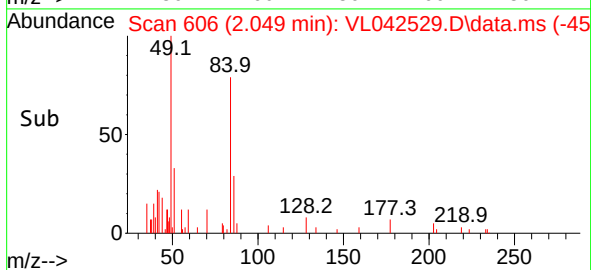
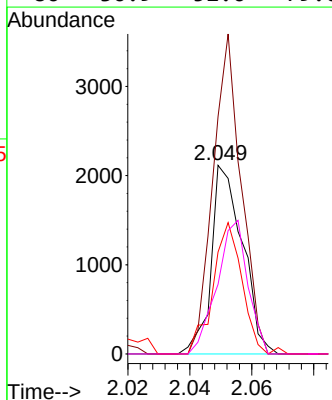
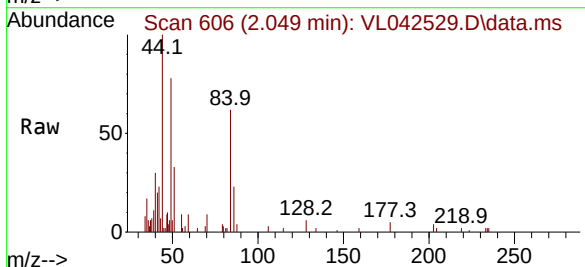
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

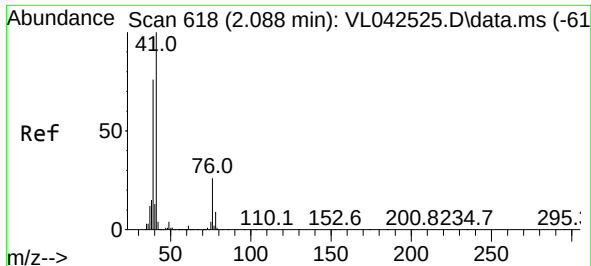
Tgt Ion: 45 Resp: 1243
Ion Ratio Lower Upper
45 100
58 0.0 1.5 2.3#



#20
Methylene Chloride
Concen: 0.265 ppbv
RT: 2.049 min Scan# 606
Delta R.T. -0.003 min
Lab File: VL042529.D
Acq: 12 May 2025 11:15

Tgt Ion: 84 Resp: 1481
Ion Ratio Lower Upper
84 100
49 125.8 128.2 192.4#
51 54.0 41.7 62.5
86 36.9 52.6 79.0#

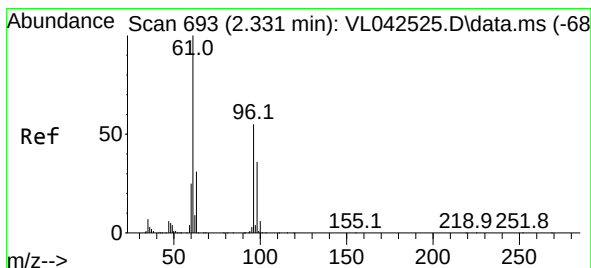
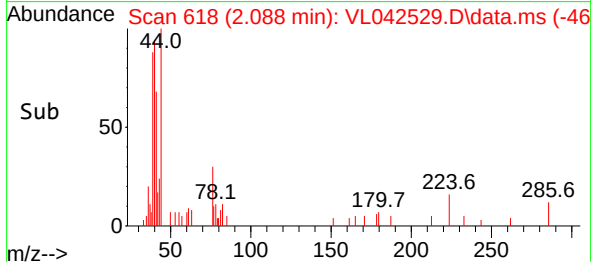
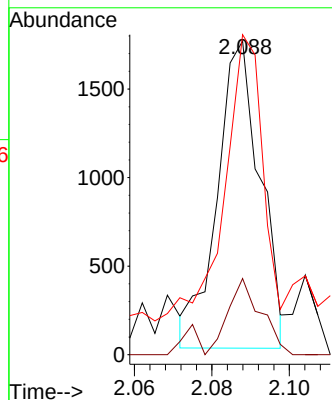
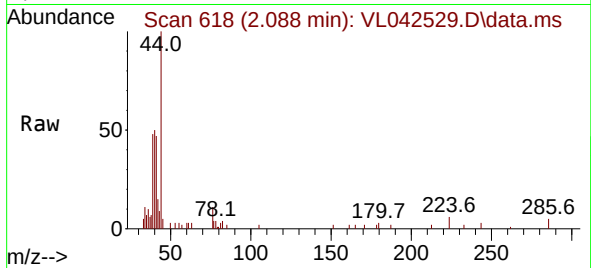




#21
 Allyl Chloride
 Concen: 0.126 ppbv
 RT: 2.088 min Scan# 618
 Delta R.T. -0.000 min
 Lab File: VL042529.D
 Acq: 12 May 2025 11:15

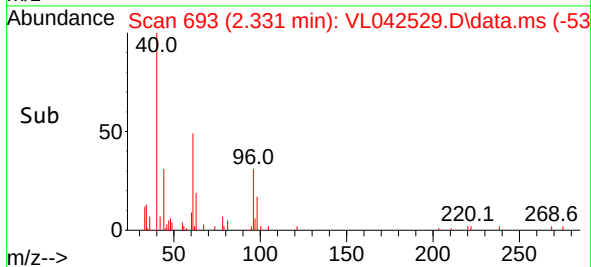
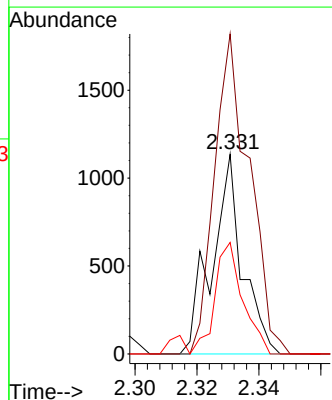
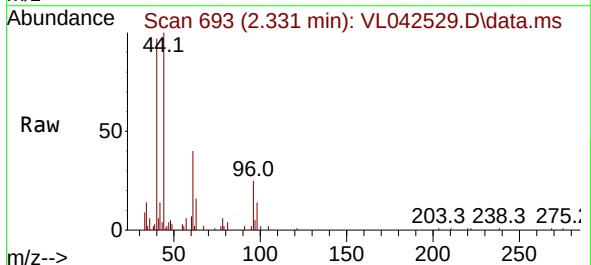
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

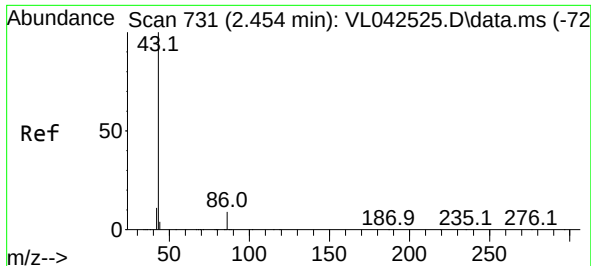
Tgt Ion: 41 Resp: 1337
 Ion Ratio Lower Upper
 41 100
 76 22.7 22.0 33.0
 39 139.7 59.5 89.3#



#22
 trans-1,2-Dichloroethene
 Concen: 0.120 ppbv
 RT: 2.331 min Scan# 693
 Delta R.T. -0.000 min
 Lab File: VL042529.D
 Acq: 12 May 2025 11:15

Tgt Ion: 96 Resp: 774
 Ion Ratio Lower Upper
 96 100
 61 160.2 145.9 218.9
 98 55.8 52.2 78.4

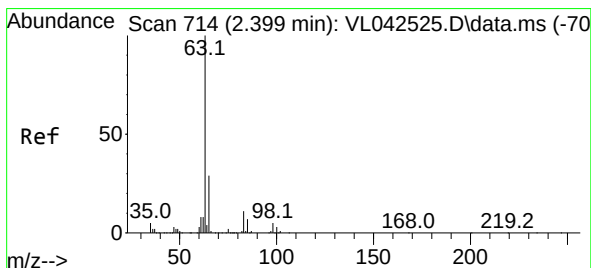
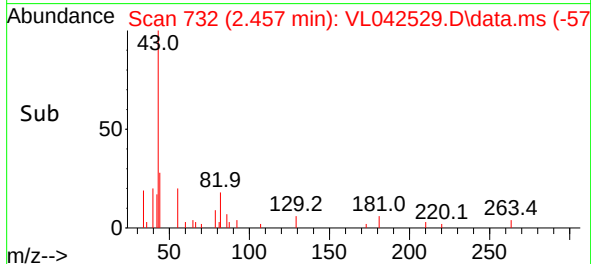
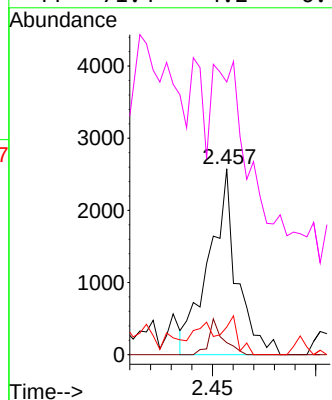
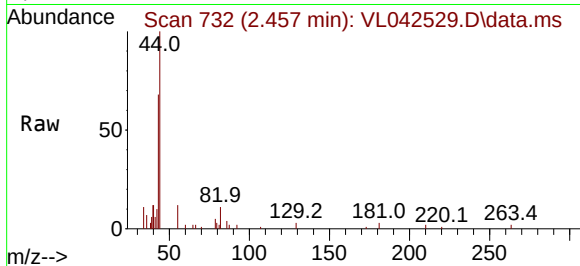




#23
Vinyl Acetate
Concen: 0.143 ppbv
RT: 2.457 min Scan# 715
Delta R.T. 0.003 min
Lab File: VL042529.D
Acq: 12 May 2025 11:15

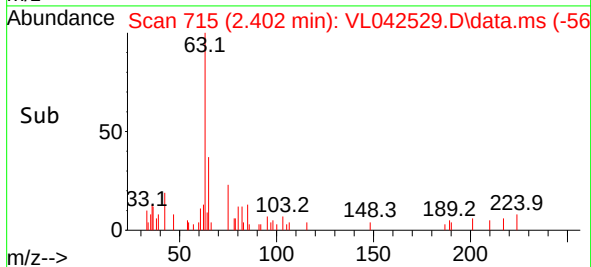
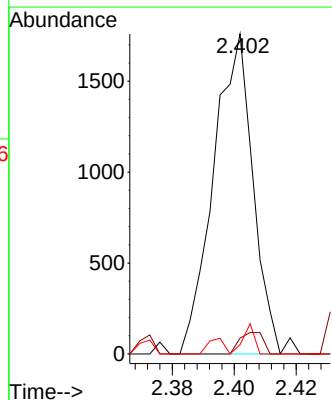
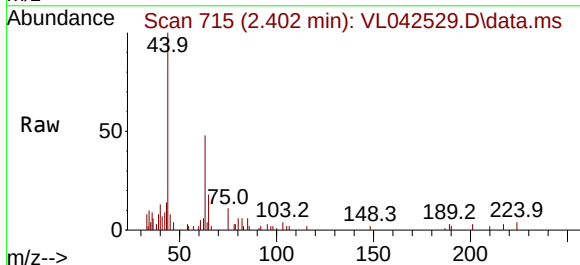
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

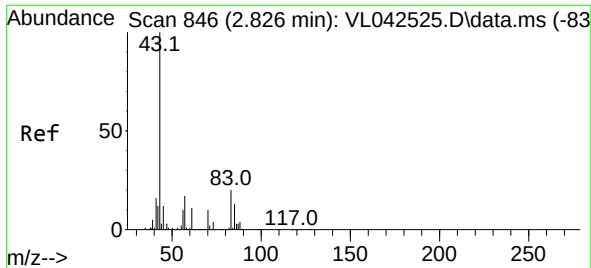
Tgt Ion:	43	Resp:	2412
Ion	Ratio	Lower	Upper
43	100		
86	6.5	6.8	10.2#
42	14.9	8.8	13.2#
44	71.4	4.2	6.4#



#24
1,1-Dichloroethane
Concen: 0.124 ppbv
RT: 2.402 min Scan# 715
Delta R.T. 0.003 min
Lab File: VL042529.D
Acq: 12 May 2025 11:15

Tgt Ion:	63	Resp:	1550
Ion	Ratio	Lower	Upper
63	100		
98	4.9	2.6	8.0
100	2.9	1.4	4.2

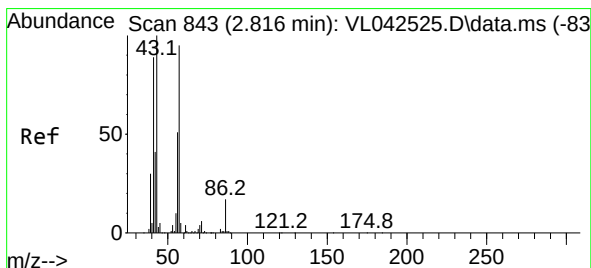
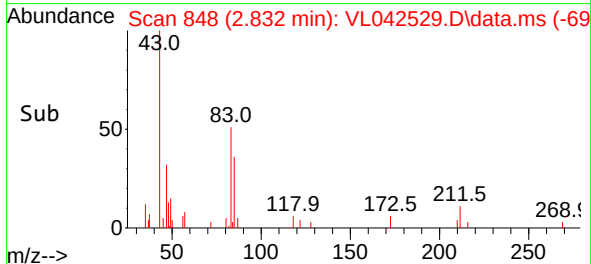
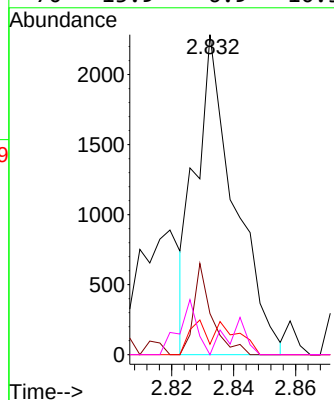
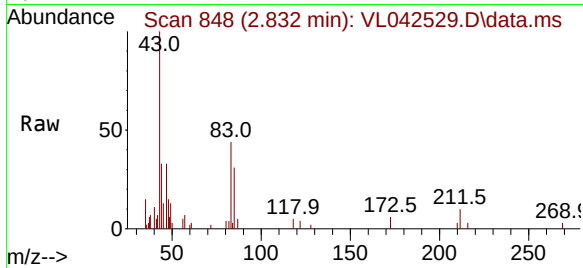




#25
Ethyl Acetate
Concen: 0.070 ppbv
RT: 2.832 min Scan# 846
Delta R.T. 0.006 min
Lab File: VL042529.D
Acq: 12 May 2025 11:15

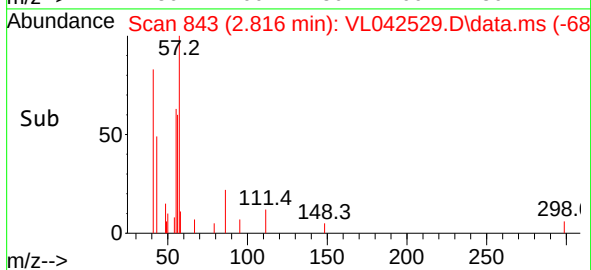
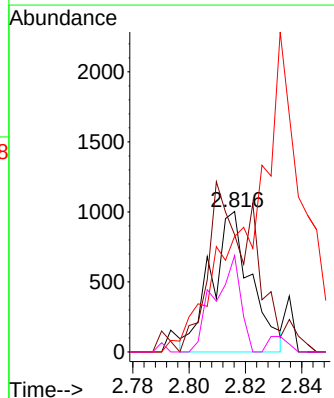
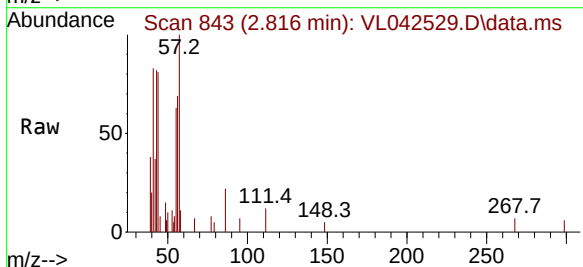
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

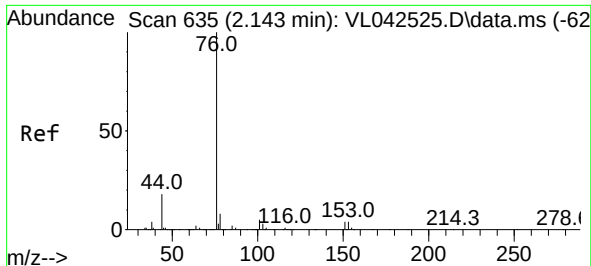
Tgt Ion: 43	Resp:	1976	
Ion	Ratio	Lower	Upper
43	100		
45	16.2	7.9	11.9#
61	11.1	7.1	10.7#
70	13.9	6.9	10.3#



#26
Hexane
Concen: 0.085 ppbv
RT: 2.816 min Scan# 843
Delta R.T. -0.000 min
Lab File: VL042529.D
Acq: 12 May 2025 11:15

Tgt Ion: 57	Resp:	983	
Ion	Ratio	Lower	Upper
57	100		
41	141.8	76.1	114.1#
43	0.0	188.9	283.3#
56	52.2	45.2	67.8

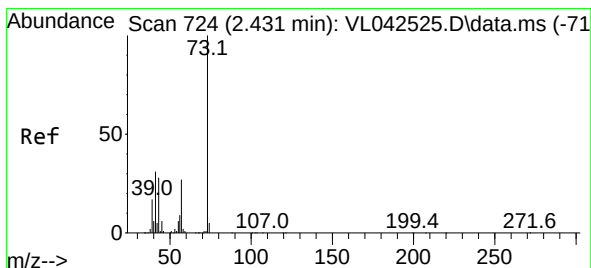
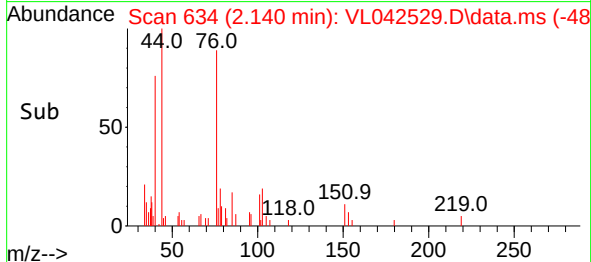
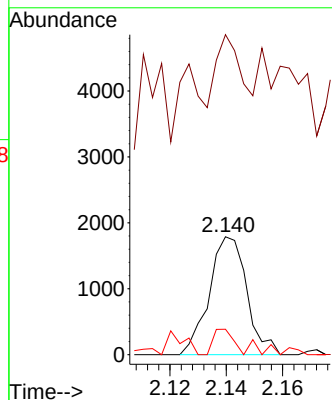
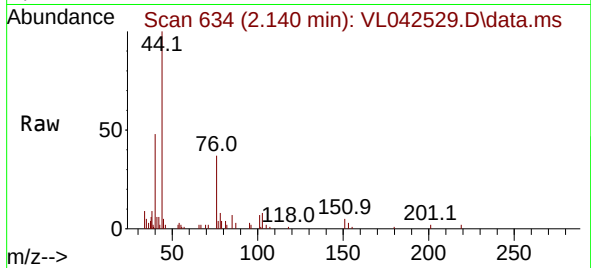




#27
Carbon Disulfide
Concen: 0.111 ppbv
RT: 2.140 min Scan# 61
Delta R.T. -0.003 min
Lab File: VL042529.D
Acq: 12 May 2025 11:15

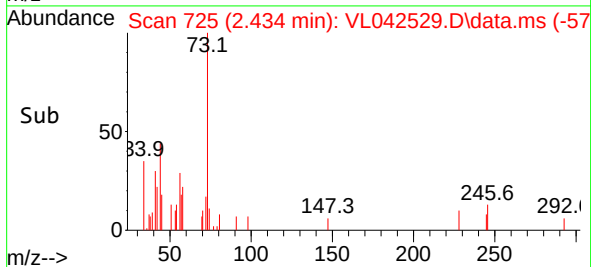
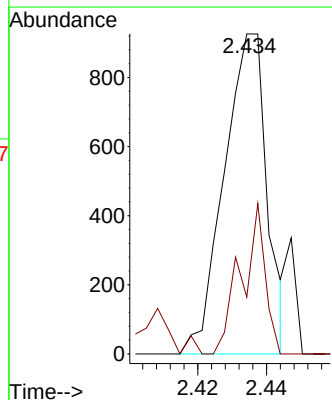
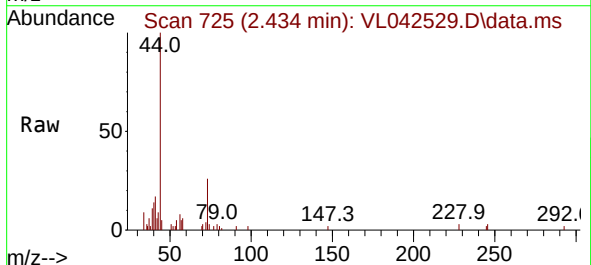
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

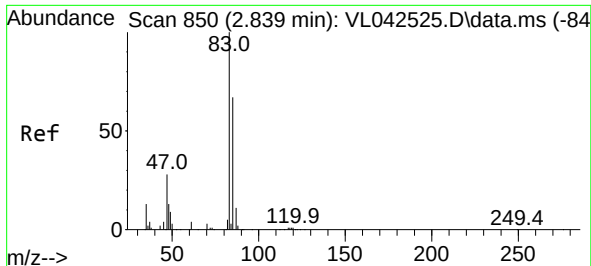
Tgt Ion: 76 Resp: 1657
Ion Ratio Lower Upper
76 100
44 276.9 17.1 25.7#
78 17.9 8.6 12.8#



#28
Methyl tert-Butyl Ether
Concen: 0.125 ppbv
RT: 2.434 min Scan# 725
Delta R.T. 0.003 min
Lab File: VL042529.D
Acq: 12 May 2025 11:15

Tgt Ion: 73 Resp: 803
Ion Ratio Lower Upper
73 100
57 35.2 20.3 30.5#





#29

Chloroform

Concen: 0.100 ppbv

RT: 2.839 min Scan# 81

Delta R.T. -0.000 min

Lab File: VL042529.D

Acq: 12 May 2025 11:15

Instrument :

MSVOA_1

ClientSampleId :

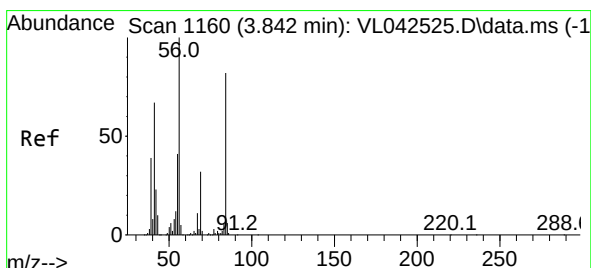
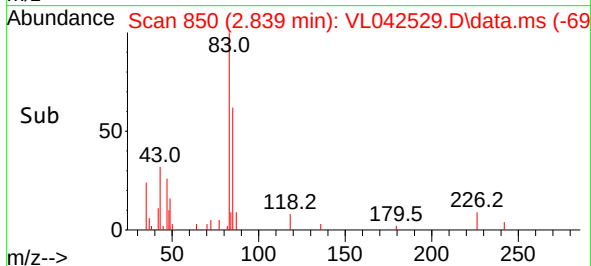
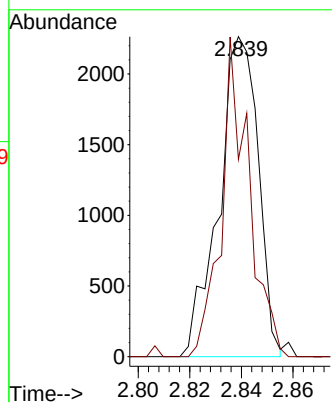
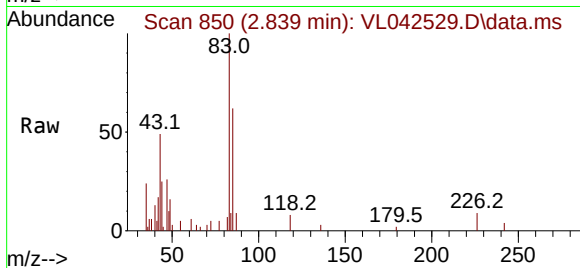
VSTDIC0.1

Tgt Ion: 83 Resp: 2409

Ion Ratio Lower Upper

83 100

85 61.7 53.5 80.3



#30

Cyclohexane

Concen: 0.064 ppbv

RT: 3.836 min Scan# 1158

Delta R.T. -0.007 min

Lab File: VL042529.D

Acq: 12 May 2025 11:15

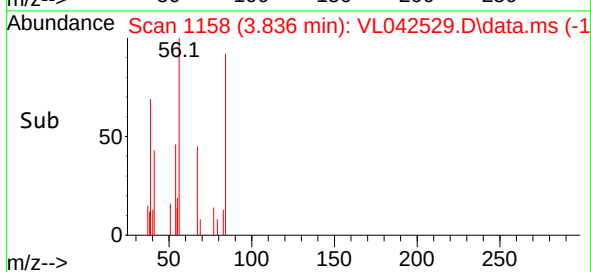
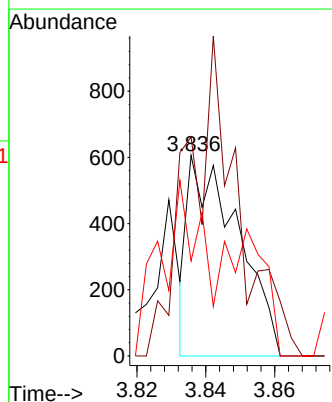
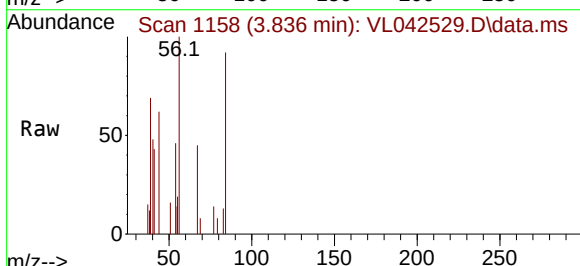
Tgt Ion: 84 Resp: 610

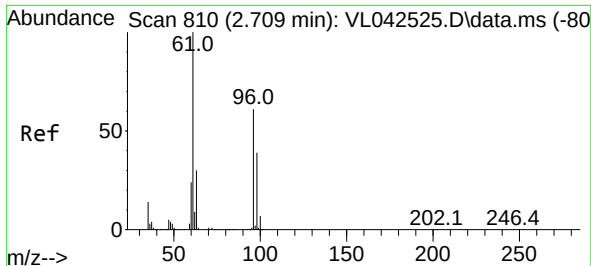
Ion Ratio Lower Upper

84 100

56 158.0 97.1 145.7#

41 124.6 66.6 99.8#

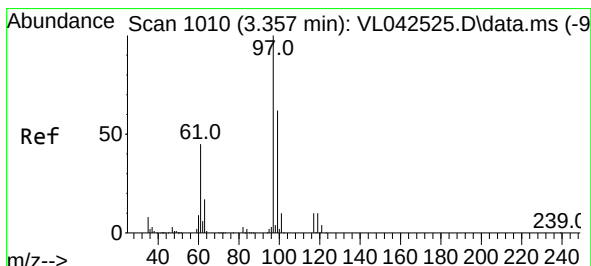
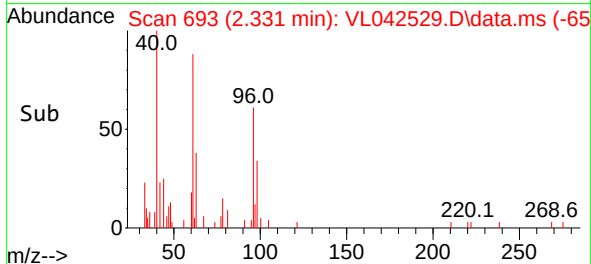
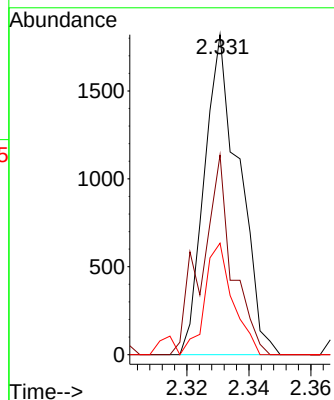
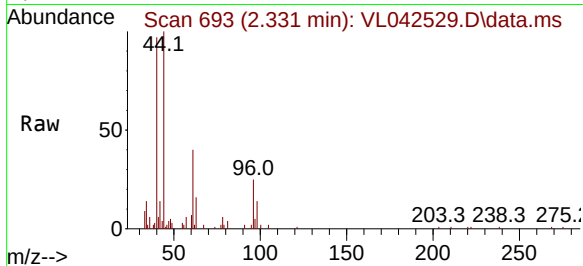




#31
 cis-1,2-Dichloroethene
 Concen: 0.108 ppbv
 RT: 2.331 min Scan# 61
 Delta R.T. -0.379 min
 Lab File: VL042529.D
 Acq: 12 May 2025 11:15

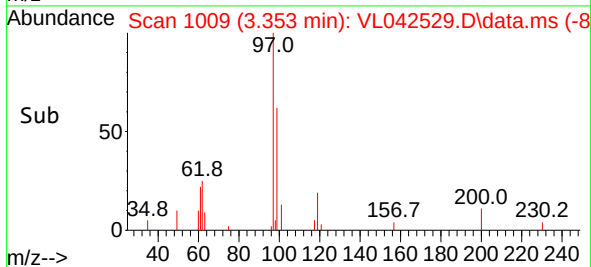
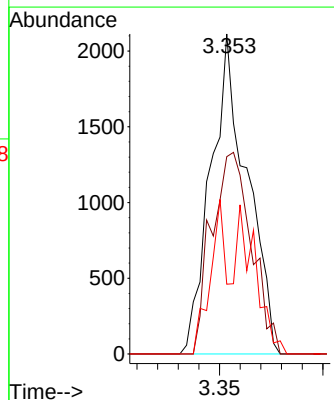
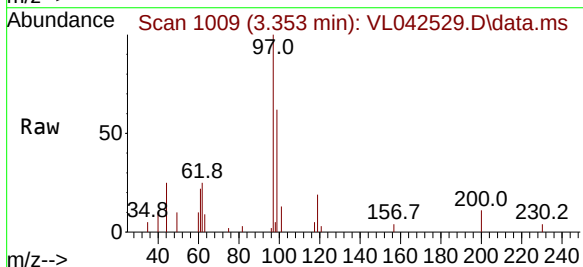
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

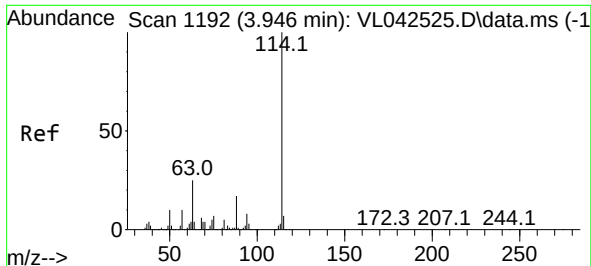
Tgt Ion: 61	Resp: 1417
Ion Ratio	Lower Upper
61	100
96	62.4 48.9 73.3
98	34.8 31.4 47.2



#32
 1,1,1-Trichloroethane
 Concen: 0.106 ppbv
 RT: 3.353 min Scan# 1009
 Delta R.T. -0.003 min
 Lab File: VL042529.D
 Acq: 12 May 2025 11:15

Tgt Ion: 97	Resp: 2575
Ion Ratio	Lower Upper
97	100
99	69.6 50.1 75.1
61	47.6 38.2 57.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.946 min Scan# 1192

Delta R.T. -0.000 min

Lab File: VL042529.D

Acq: 12 May 2025 11:15

Instrument :

MSVOA_1

ClientSampleId :

VSTDICC0.1

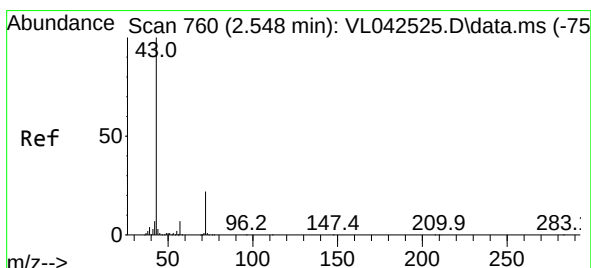
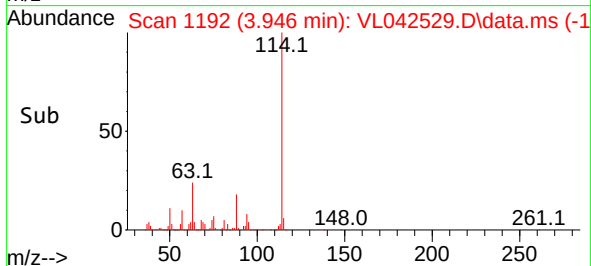
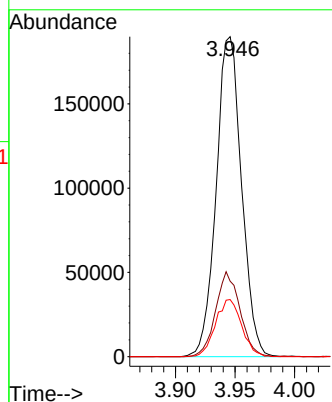
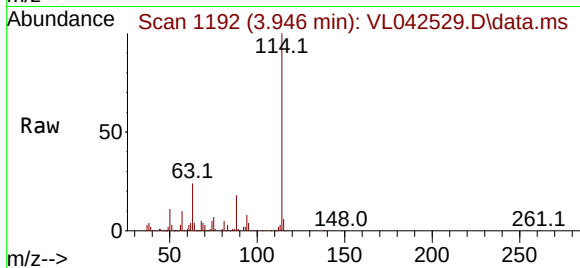
Tgt Ion:114 Resp: 280717

Ion Ratio Lower Upper

114 100

63 25.5 20.4 30.6

88 18.4 14.5 21.7



#34

2-Butanone

Concen: 0.113 ppbv

RT: 2.554 min Scan# 762

Delta R.T. 0.006 min

Lab File: VL042529.D

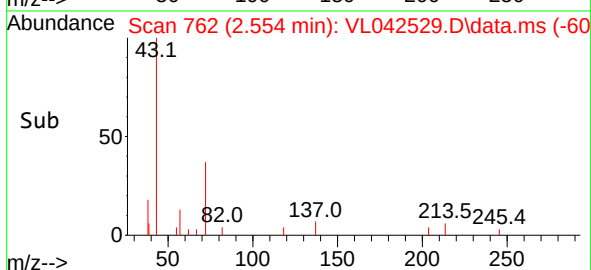
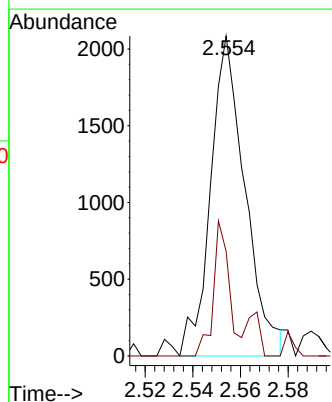
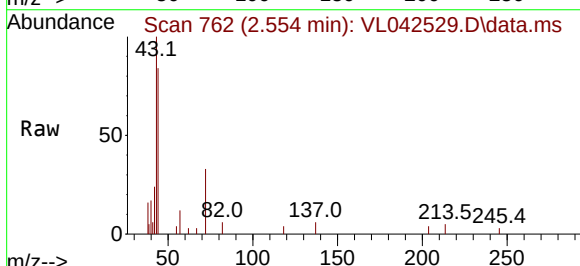
Acq: 12 May 2025 11:15

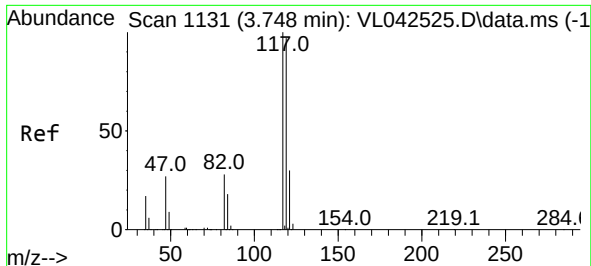
Tgt Ion: 43 Resp: 2094

Ion Ratio Lower Upper

43 100

72 26.4 18.7 28.1

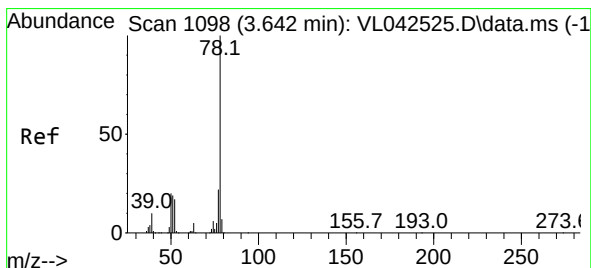
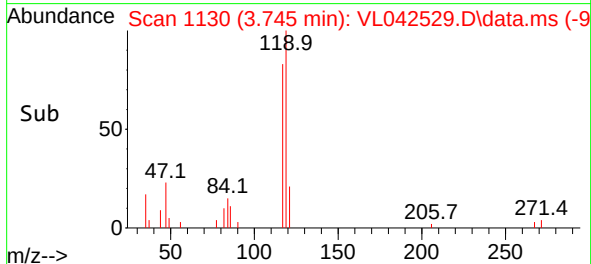
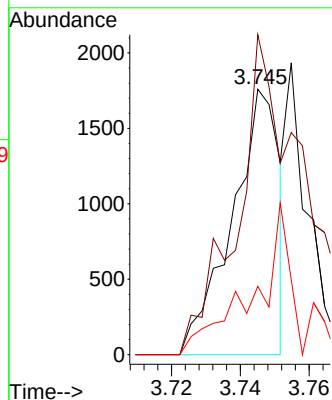
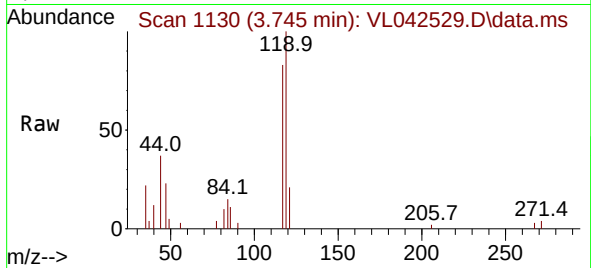




#35
Carbon Tetrachloride
Concen: 0.066 ppbv
RT: 3.745 min Scan# 1131
Delta R.T. -0.003 min
Lab File: VL042529.D
Acq: 12 May 2025 11:15

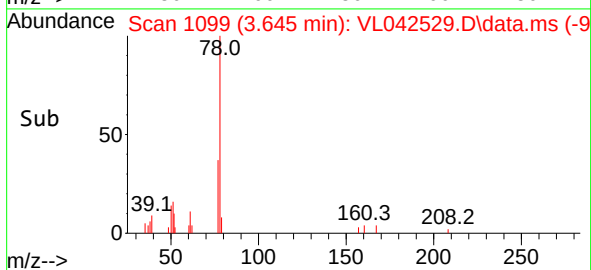
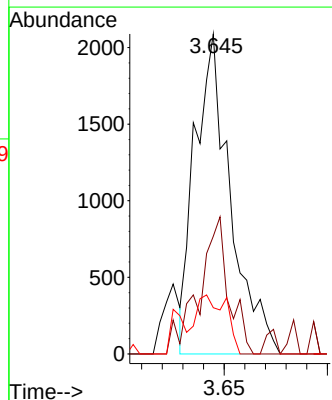
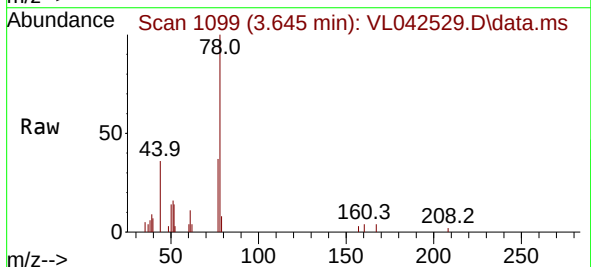
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

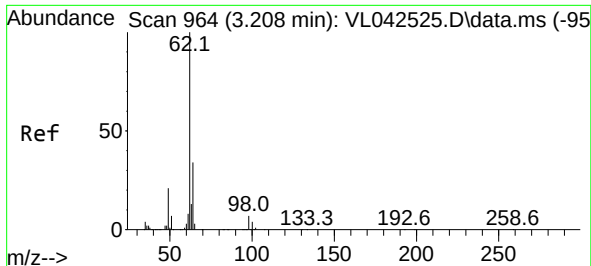
Tgt Ion:117 Resp: 1669
Ion Ratio Lower Upper
117 100
119 120.6 77.7 116.5#
121 25.8 24.0 36.0



#36
Benzene
Concen: 0.100 ppbv
RT: 3.645 min Scan# 1099
Delta R.T. 0.003 min
Lab File: VL042529.D
Acq: 12 May 2025 11:15

Tgt Ion: 78 Resp: 2494
Ion Ratio Lower Upper
78 100
77 36.8 17.4 26.2#
50 14.5 16.3 24.5#





#37

1,2-Dichloroethane

Concen: 0.095 ppbv

RT: 3.208 min Scan# 9

Delta R.T. -0.000 min

Lab File: VL042529.D

Acq: 12 May 2025 11:15

Instrument :

MSVOA_1

ClientSampleId :

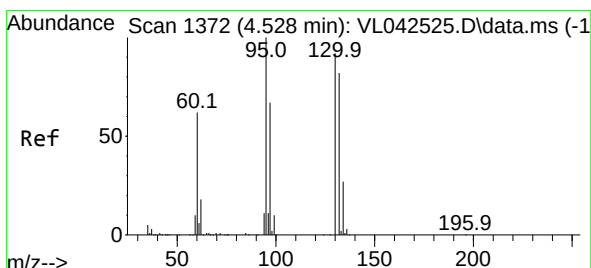
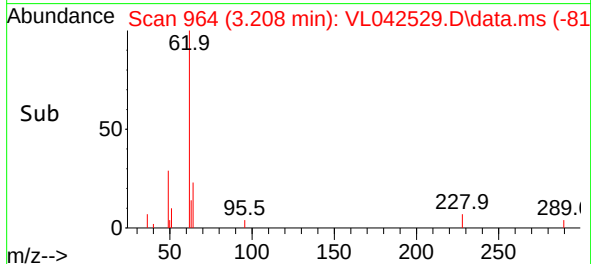
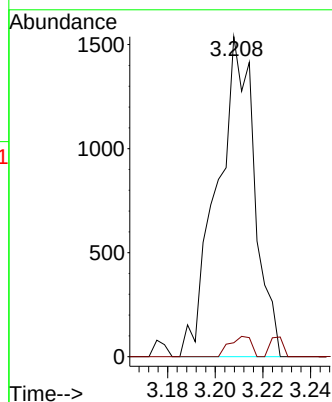
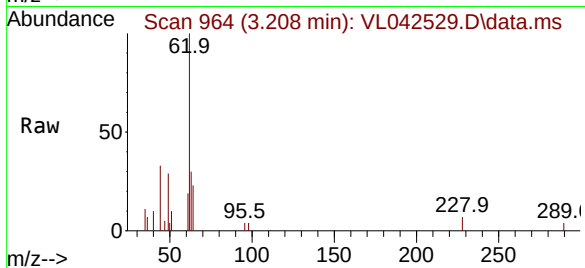
VSTDIC0.1

Tgt Ion: 62 Resp: 1682

Ion Ratio Lower Upper

62 100

98 5.8 5.0 7.4



#38

Trichloroethene

Concen: 0.065 ppbv

RT: 4.528 min Scan# 1372

Delta R.T. -0.000 min

Lab File: VL042529.D

Acq: 12 May 2025 11:15

Tgt Ion:130 Resp: 695

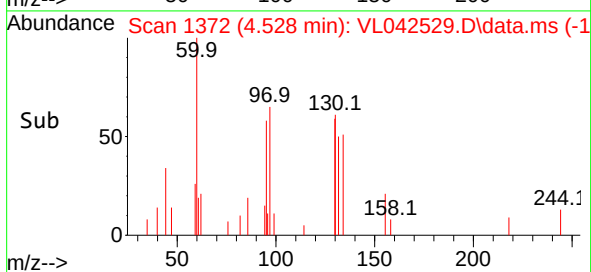
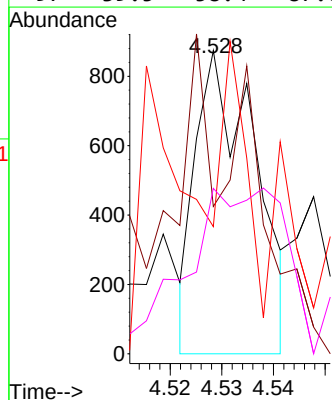
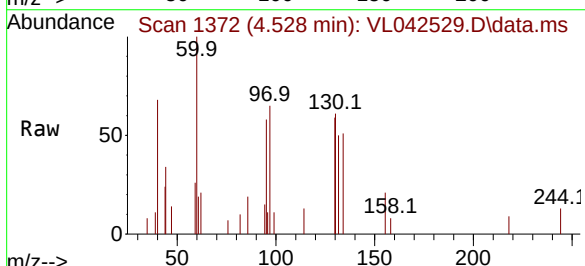
Ion Ratio Lower Upper

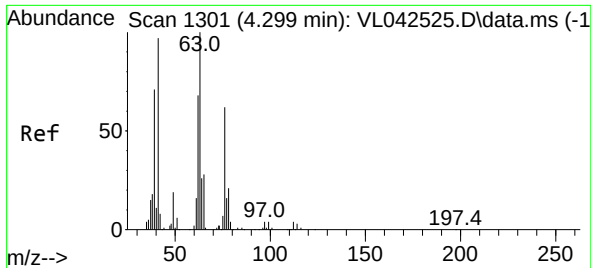
130 100

95 29.1 87.0 130.4#

132 0.0 71.1 106.7#

97 39.5 58.4 87.6#

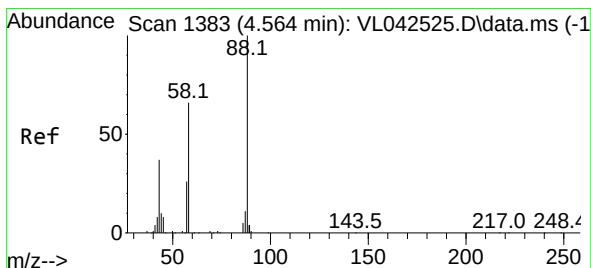
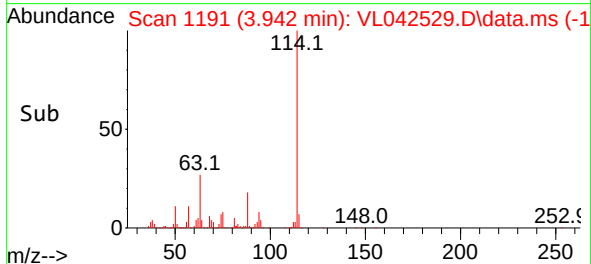
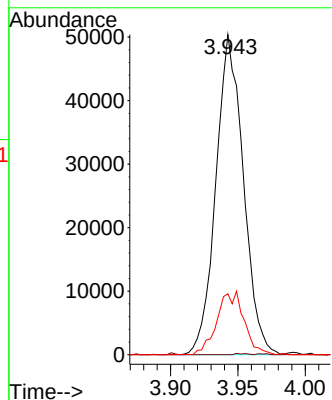
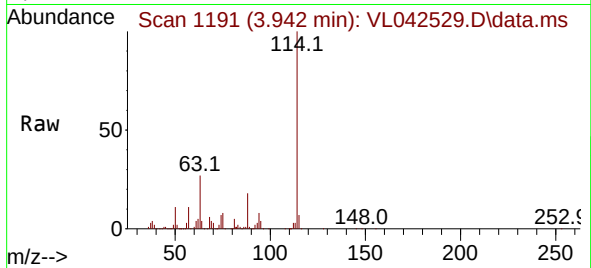




#39
 1,2-Dichloropropane
 Concen: 7.711 ppbv
 RT: 3.942 min Scan# 1191
 Delta R.T. -0.356 min
 Lab File: VL042529.D
 Acq: 12 May 2025 11:15

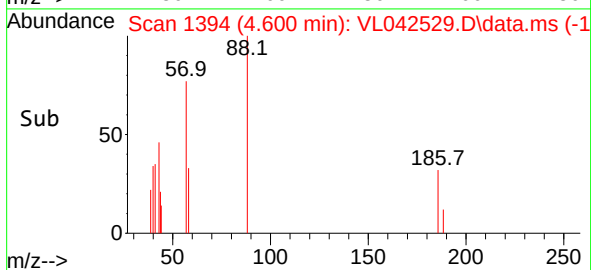
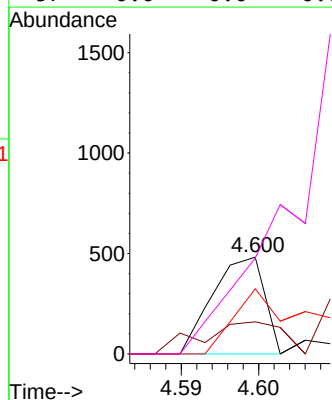
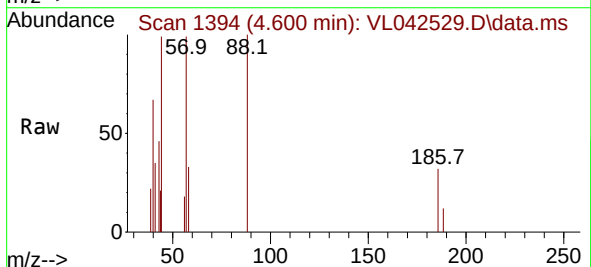
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

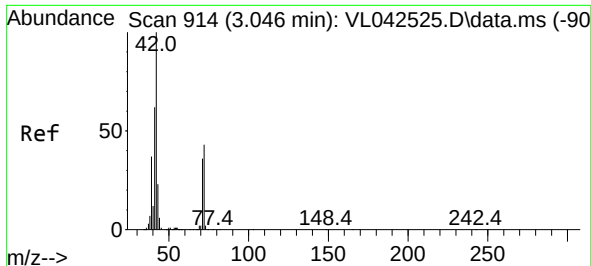
Tgt Ion: 63 Resp: 71407
 Ion Ratio Lower Upper
 63 100
 41 0.3 77.5 116.3#
 62 19.0 54.6 82.0#



#40
 1,4-Dioxane
 Concen: 0.061 ppbv
 RT: 4.600 min Scan# 1394
 Delta R.T. 0.035 min
 Lab File: VL042529.D
 Acq: 12 May 2025 11:15

Tgt Ion: 88 Resp: 224
 Ion Ratio Lower Upper
 88 100
 58 0.0 58.2 87.2#
 43 75.9 27.9 41.9#
 57 0.0 0.0 0.0





#41

Tetrahydrofuran

Concen: 0.006 ppbv

RT: 3.043 min Scan# 914

Delta R.T. -0.003 min

Lab File: VL042529.D

Acq: 12 May 2025 11:15

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

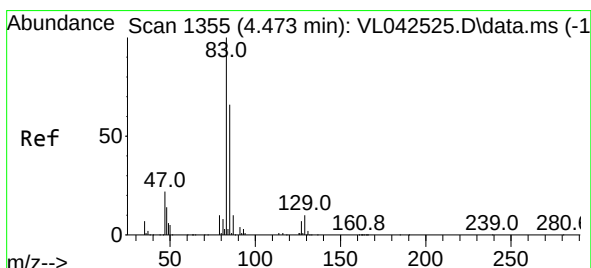
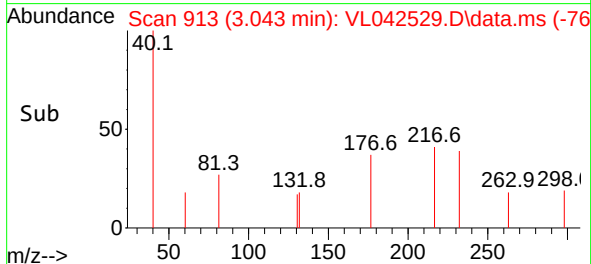
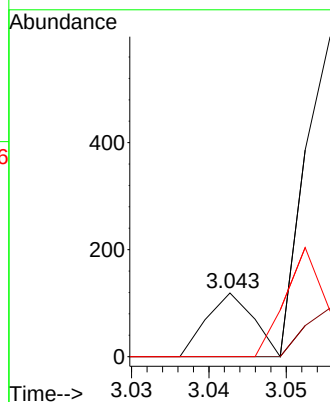
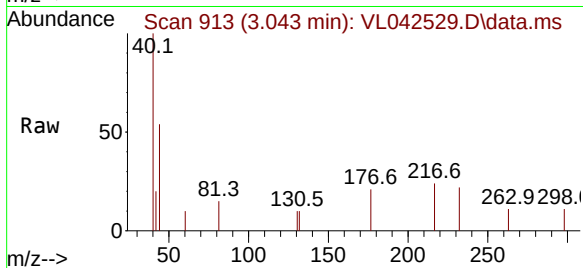
Tgt Ion: 42 Resp: 50

Ion Ratio Lower Upper

42 100

72 0.0 32.7 49.1#

71 0.0 30.4 45.6#



#42

Bromodichloromethane

Concen: 0.065 ppbv

RT: 4.480 min Scan# 1357

Delta R.T. 0.006 min

Lab File: VL042529.D

Acq: 12 May 2025 11:15

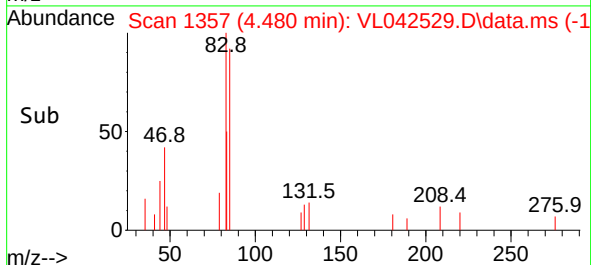
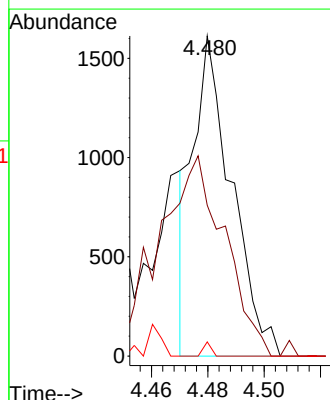
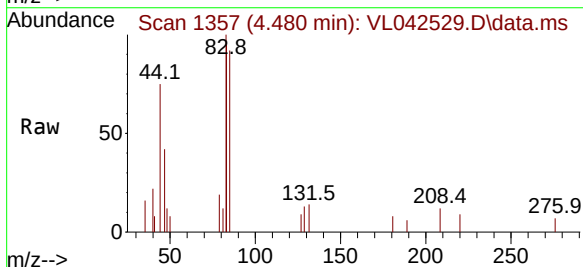
Tgt Ion: 83 Resp: 1535

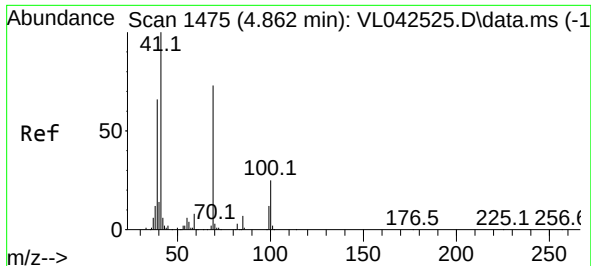
Ion Ratio Lower Upper

83 100

85 47.1 52.6 79.0#

127 4.4 6.0 9.0#

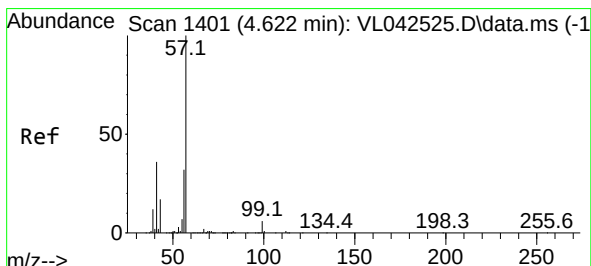
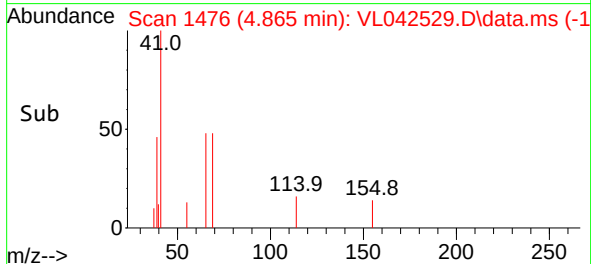
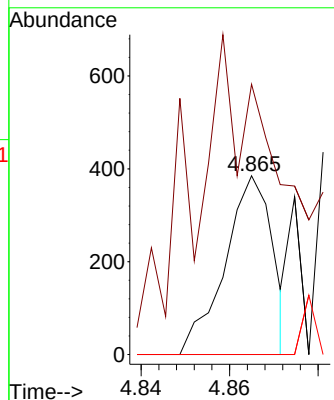
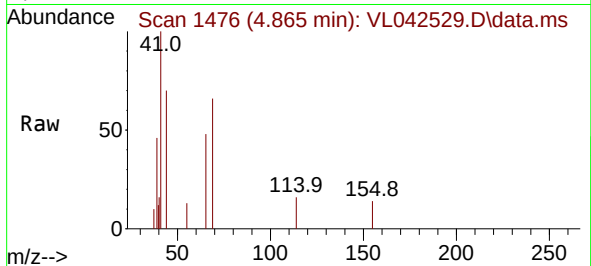




#43
Methyl Methacrylate
Concen: 0.035 ppbv
RT: 4.865 min Scan# 1476
Delta R.T. 0.003 min
Lab File: VL042529.D
Acq: 12 May 2025 11:15

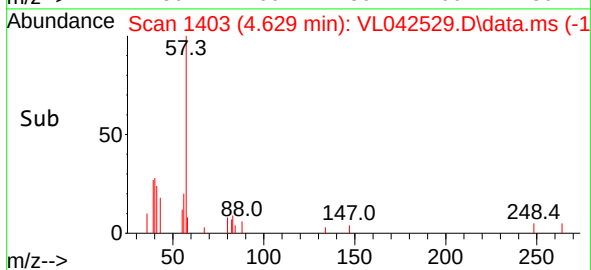
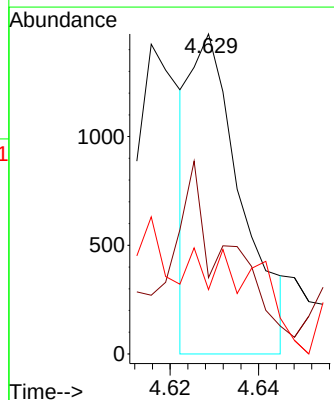
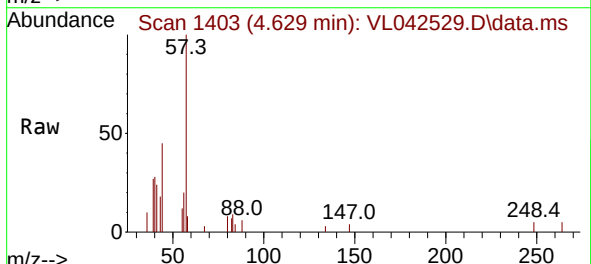
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

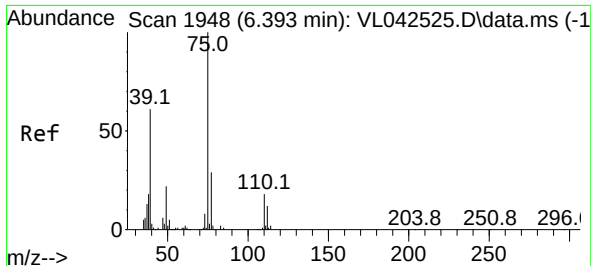
Tgt Ion: 69 Resp: 289
Ion Ratio Lower Upper
69 100
41 446.4 119.9 179.9#
100 0.0 28.4 42.6#



#44
2,2,4-Trimethylpentane
Concen: 0.030 ppbv
RT: 4.629 min Scan# 1403
Delta R.T. 0.006 min
Lab File: VL042529.D
Acq: 12 May 2025 11:15

Tgt Ion: 57 Resp: 1172
Ion Ratio Lower Upper
57 100
41 109.4 28.3 42.5#
56 0.0 25.9 38.9#

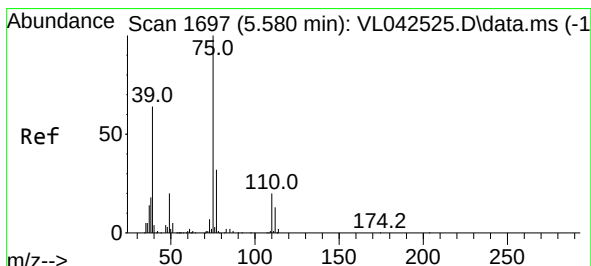
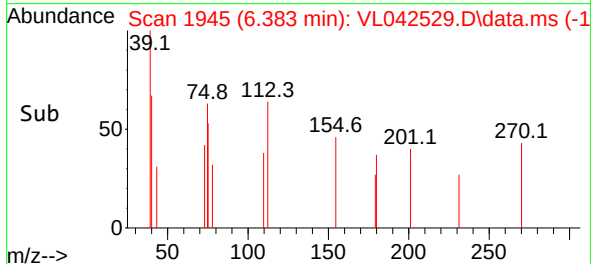
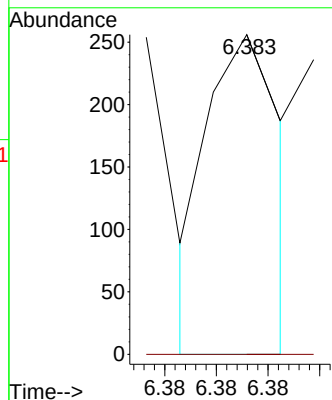
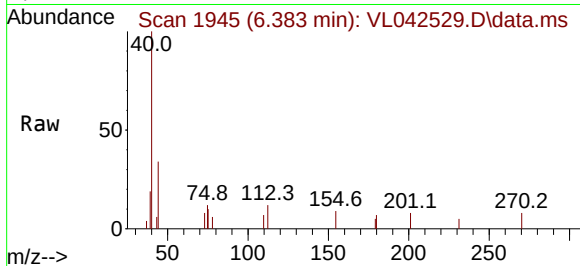




#45
t-1,3-Dichloropropene
Concen: 0.012 ppbv
RT: 6.383 min Scan# 1945
Delta R.T. -0.010 min
Lab File: VL042529.D
Acq: 12 May 2025 11:15

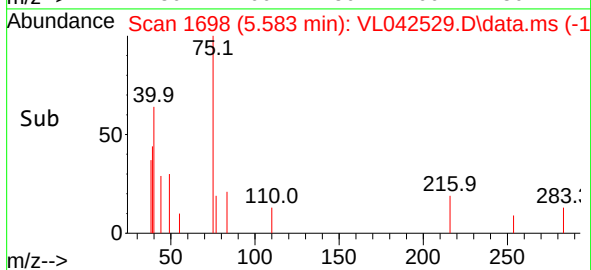
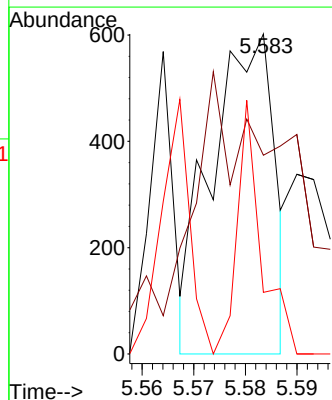
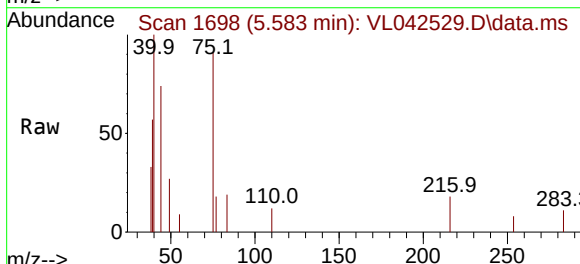
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

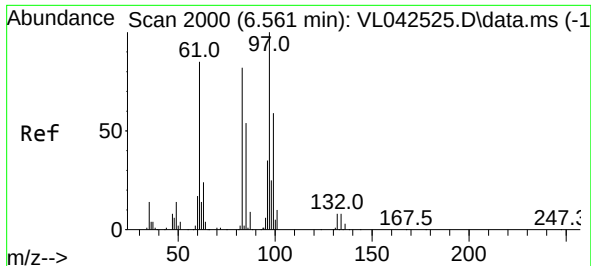
Tgt Ion: 75 Resp: 127
Ion Ratio Lower Upper
75 100
77 27.7 23.3 34.9



#46
cis-1,3-Dichloropropene
Concen: 0.040 ppbv
RT: 5.583 min Scan# 1698
Delta R.T. 0.003 min
Lab File: VL042529.D
Acq: 12 May 2025 11:15

Tgt Ion: 75 Resp: 510
Ion Ratio Lower Upper
75 100
39 35.4 51.2 76.8#
77 0.0 25.4 38.0#

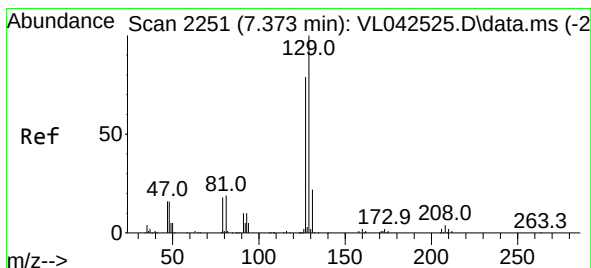
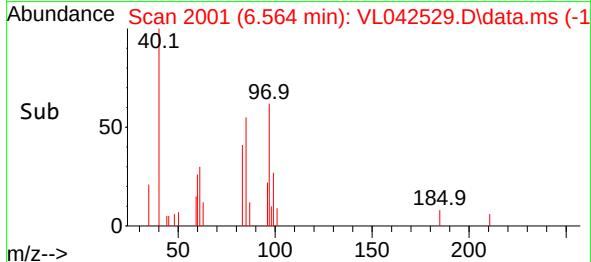
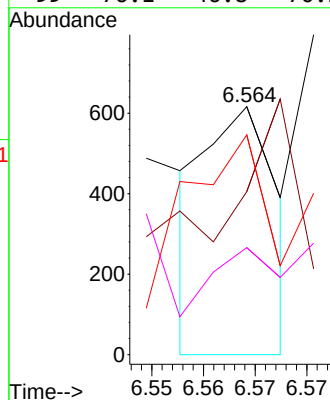
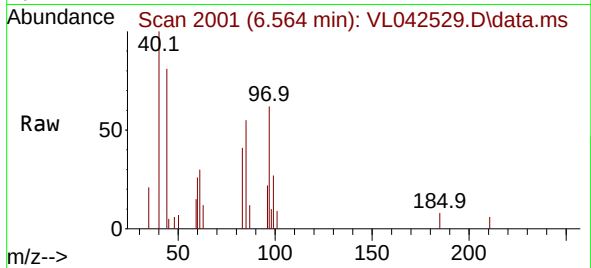




#47
1,1,2-Trichloroethane
Concen: 0.027 ppbv
RT: 6.564 min Scan# 2000
Delta R.T. 0.003 min
Lab File: VL042529.D
Acq: 12 May 2025 11:15

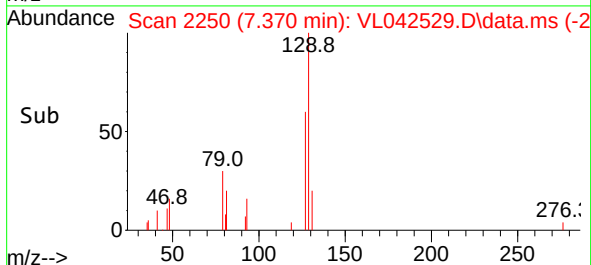
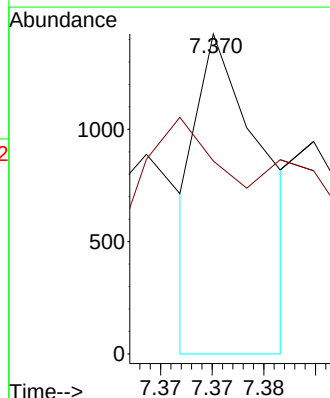
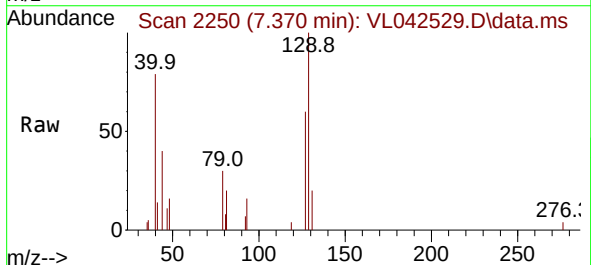
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

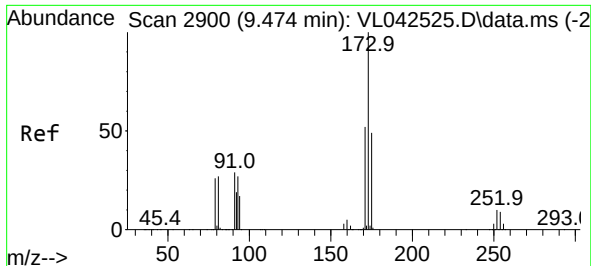
Tgt Ion: 97	Resp:	297
Ion	Ratio	Lower Upper
97	100	
83	21.2	66.0 99.0#
85	143.8	42.8 64.2#
99	76.1	46.8 70.2#



#48
Dibromochloromethane
Concen: 0.035 ppbv
RT: 7.370 min Scan# 2250
Delta R.T. -0.003 min
Lab File: VL042529.D
Acq: 12 May 2025 11:15

Tgt Ion: 129	Resp:	632
Ion	Ratio	Lower Upper
129	100	
127	241.3	39.6 118.8#





#49

Bromoform

Concen: 0.048 ppbv

RT: 9.474 min Scan# 2900

Delta R.T. -0.000 min

Lab File: VL042529.D

Acq: 12 May 2025 11:15

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

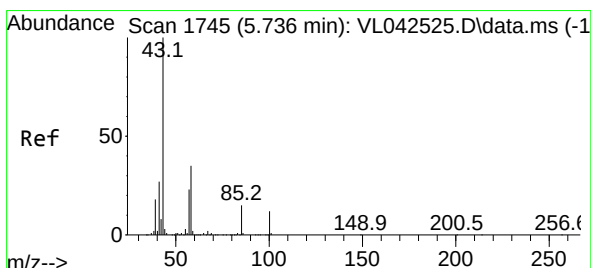
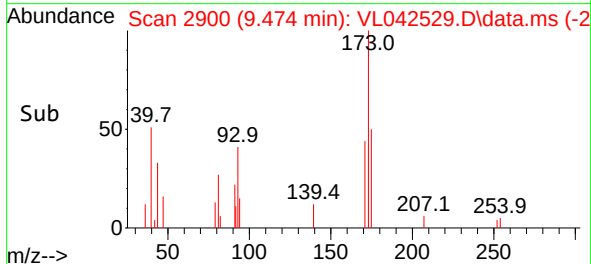
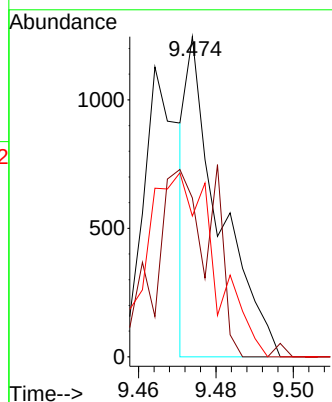
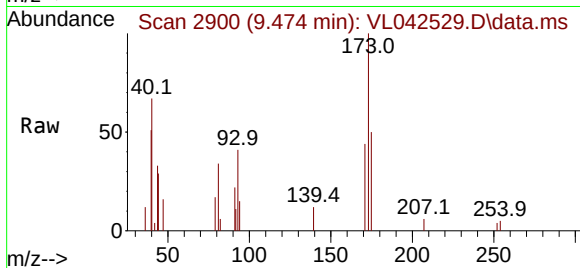
Tgt Ion:173 Resp: 723

Ion Ratio Lower Upper

173 100

175 107.9 39.1 58.7#

171 124.8 41.8 62.8#



#50

4-Methyl-2-Pentanone

Concen: 0.002 ppbv

RT: 5.729 min Scan# 1743

Delta R.T. -0.007 min

Lab File: VL042529.D

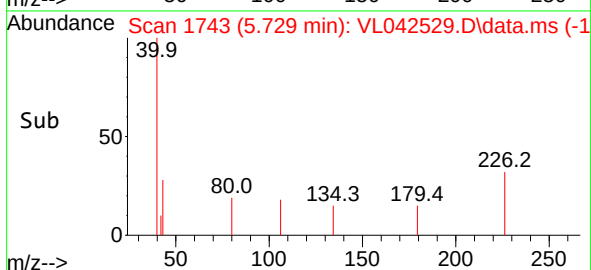
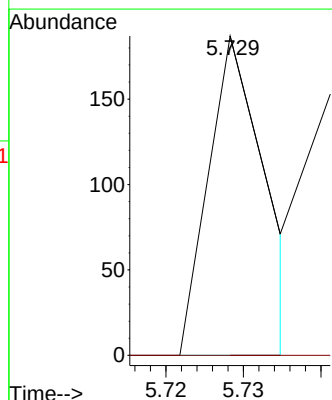
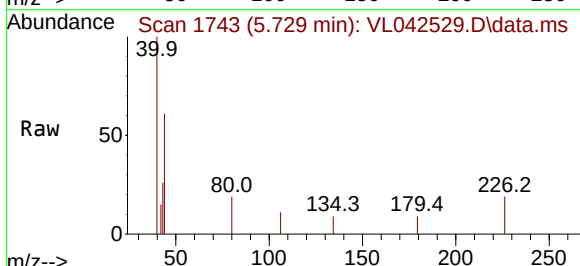
Acq: 12 May 2025 11:15

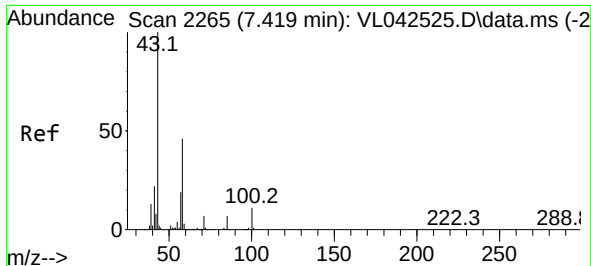
Tgt Ion: 43 Resp: 50

Ion Ratio Lower Upper

43 100

58 0.0 28.6 42.8#

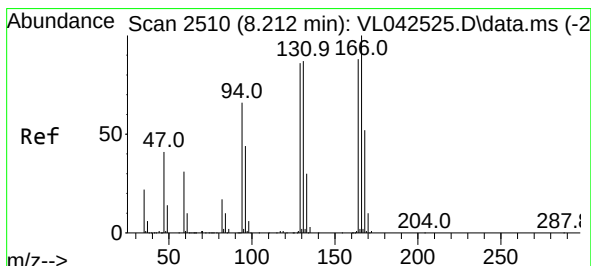
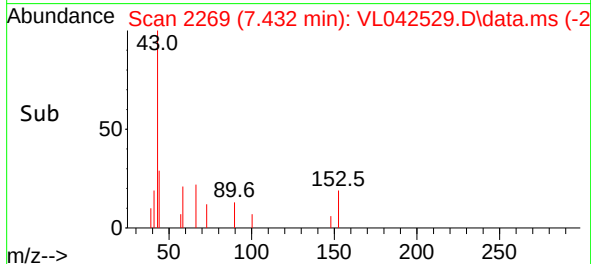
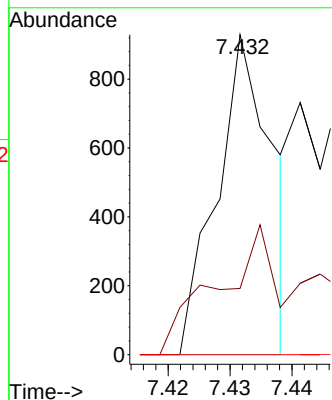
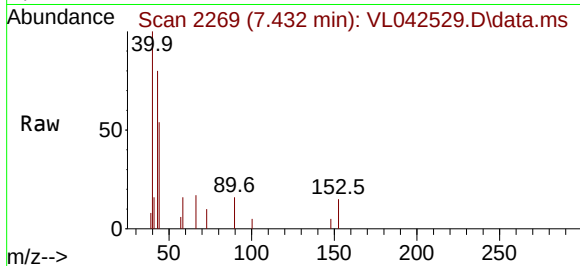




#51
2-Hexanone
Concen: 0.036 ppbv
RT: 7.432 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL042529.D
Acq: 12 May 2025 11:15

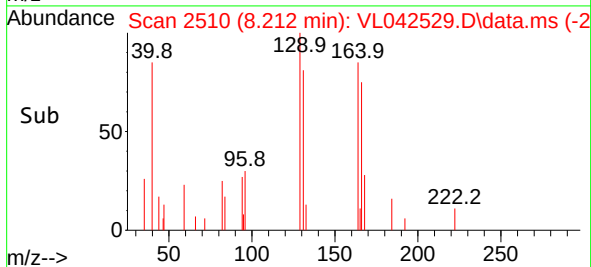
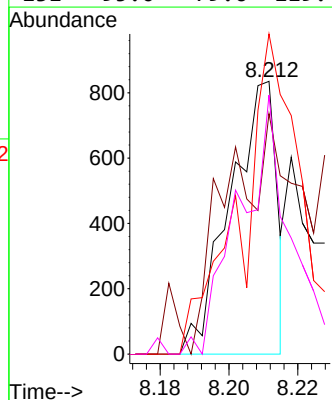
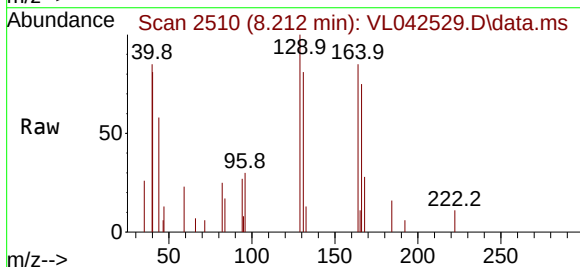
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

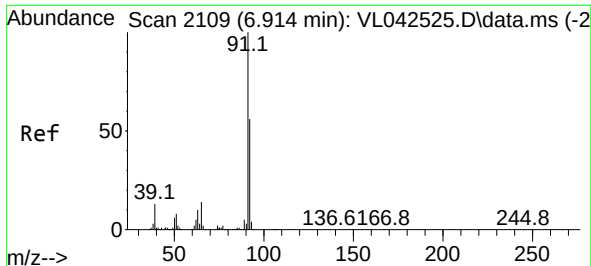
Tgt Ion: 43 Resp: 578
Ion Ratio Lower Upper
43 100
58 89.3 37.5 56.3#
98 0.0 0.9 1.3#



#52
Tetrachloroethene
Concen: 0.082 ppbv
RT: 8.212 min Scan# 2510
Delta R.T. -0.000 min
Lab File: VL042529.D
Acq: 12 May 2025 11:15

Tgt Ion: 164 Resp: 785
Ion Ratio Lower Upper
164 100
166 78.0 91.3 136.9#
129 117.4 78.9 118.3
131 95.0 79.6 119.4

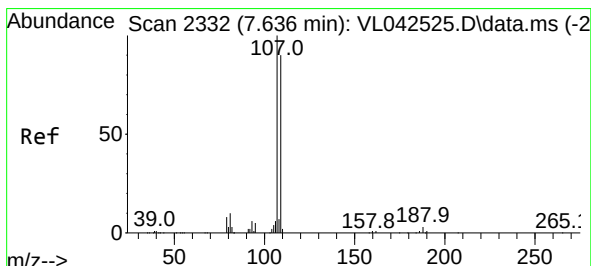
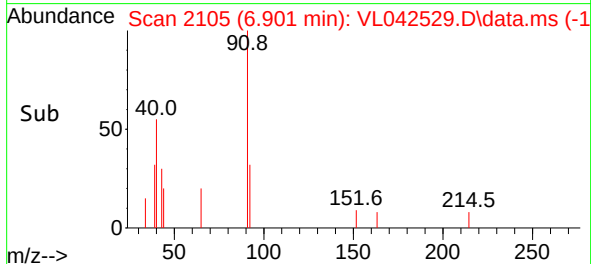
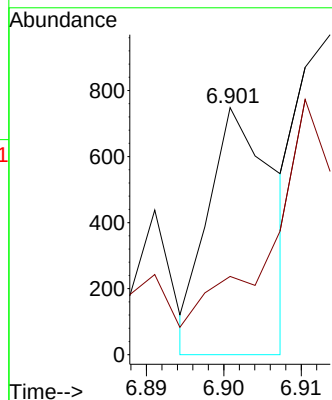
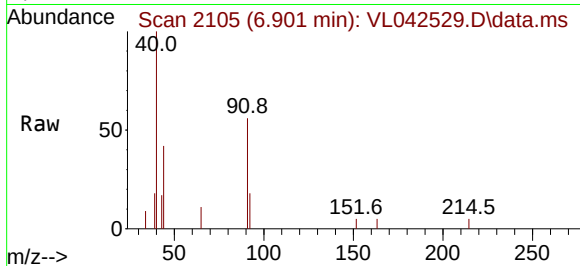




#53
Toluene
Concen: 0.018 ppbv
RT: 6.901 min Scan# 2105
Delta R.T. -0.013 min
Lab File: VL042529.D
Acq: 12 May 2025 11:15

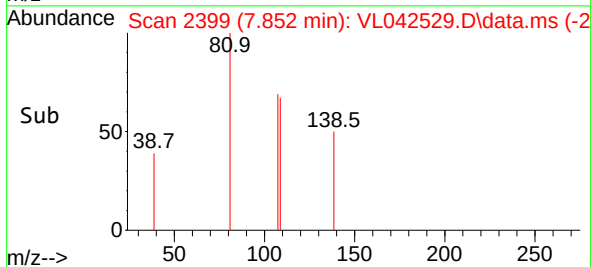
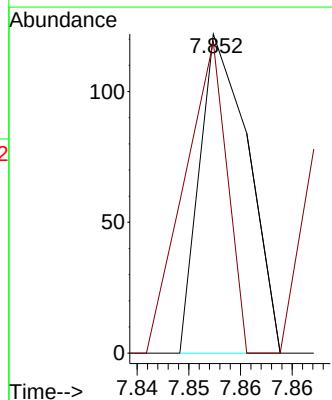
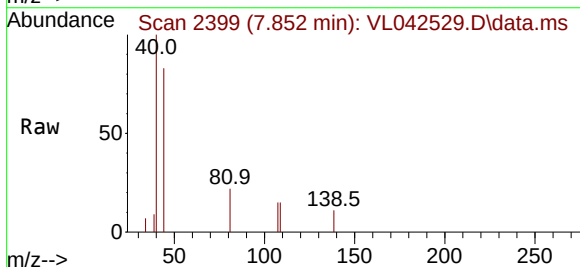
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

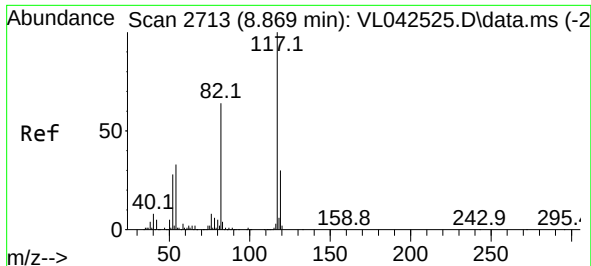
Tgt Ion: 91 Resp: 444
Ion Ratio Lower Upper
91 100
92 289.0 47.8 71.6#



#54
1,2-Dibromoethane
Concen: 0.003 ppbv
RT: 7.852 min Scan# 2399
Delta R.T. 0.217 min
Lab File: VL042529.D
Acq: 12 May 2025 11:15

Tgt Ion: 107 Resp: 40
Ion Ratio Lower Upper
107 100
109 97.5 72.2 108.4

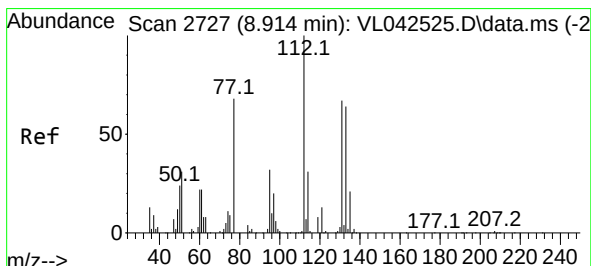
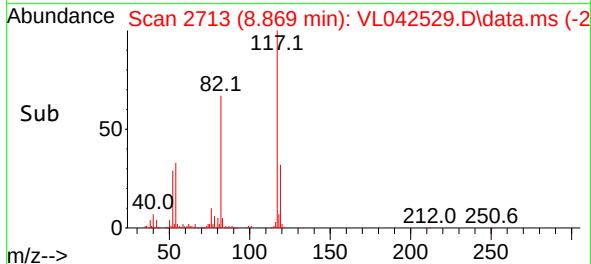
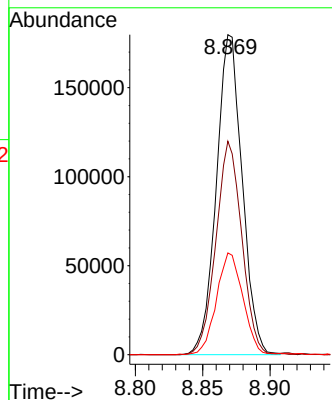
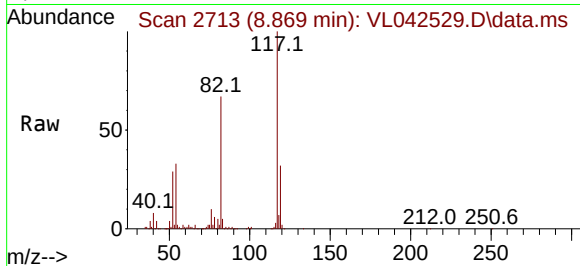




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.869 min Scan# 2713
Delta R.T. -0.000 min
Lab File: VL042529.D
Acq: 12 May 2025 11:15

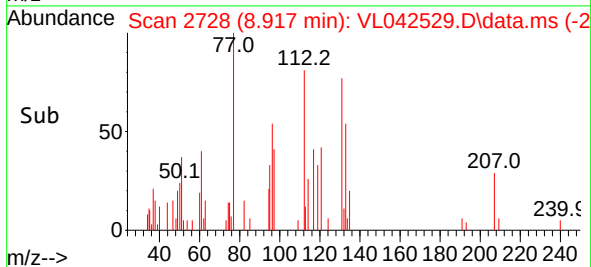
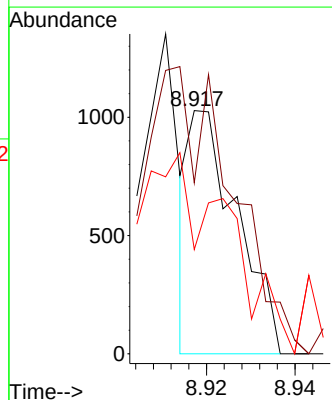
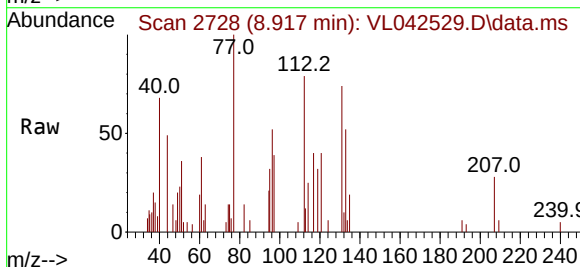
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

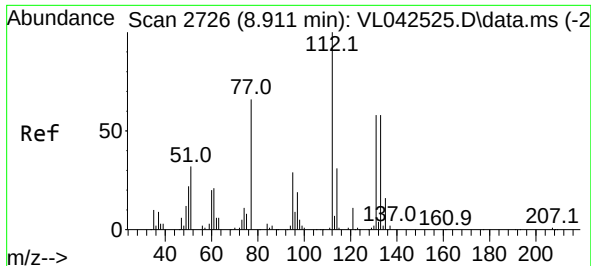
Tgt Ion:	117	Resp:	240256
Ion	Ratio	Lower	Upper
117	100		
82	66.7	55.0	82.4
119	32.9	25.8	38.6



#56
1,1,1,2-Tetrachloroethane
Concen: 0.052 ppbv
RT: 8.917 min Scan# 2728
Delta R.T. 0.003 min
Lab File: VL042529.D
Acq: 12 May 2025 11:15

Tgt Ion:	131	Resp:	779
Ion	Ratio	Lower	Upper
131	100		
133	225.7	77.4	116.2#
119	0.0	49.0	73.4#

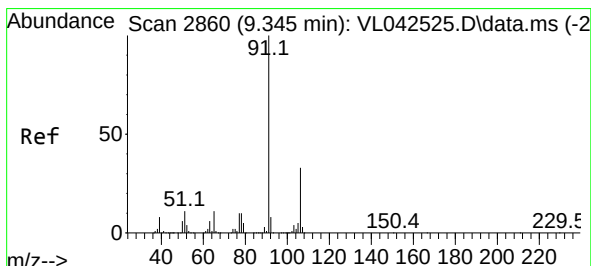
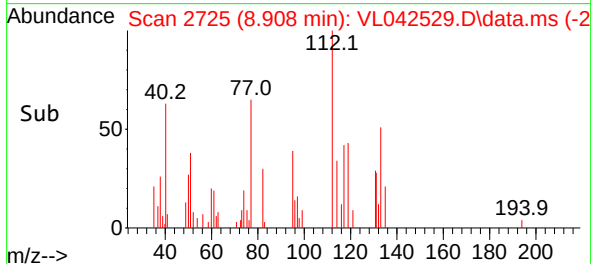
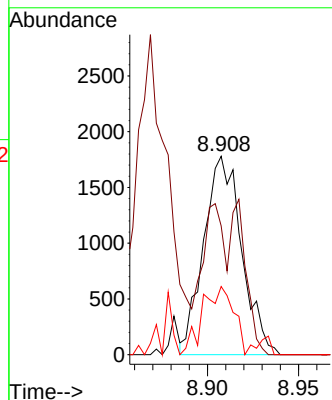
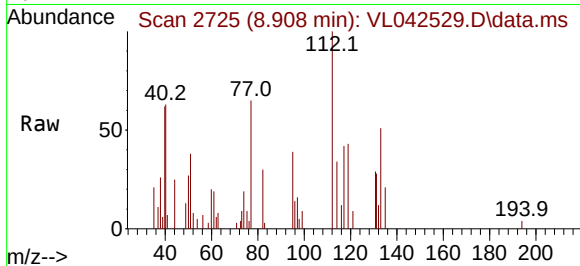




#57
Chlorobenzene
Concen: 0.107 ppbv
RT: 8.908 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042529.D
Acq: 12 May 2025 11:15

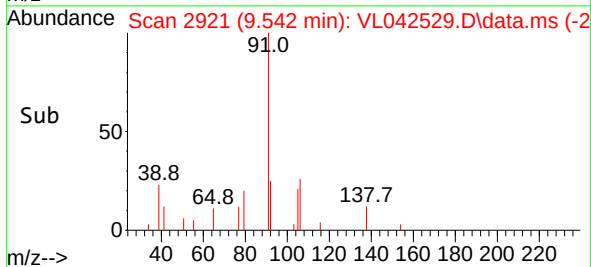
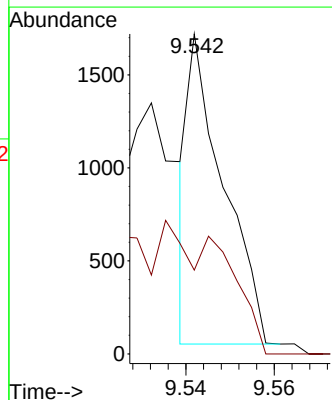
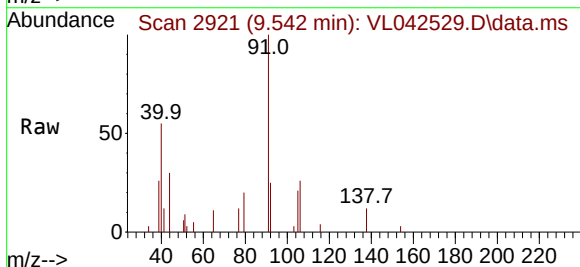
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC0.1

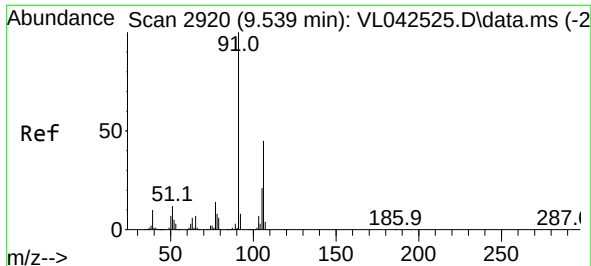
Tgt Ion:	112	Resp:	2579
Ion	Ratio	Lower	Upper
112	100		
77	64.9	53.6	80.4
114	34.4	28.2	34.4



#58
Ethyl Benzene
Concen: 0.028 ppbv
RT: 9.542 min Scan# 2921
Delta R.T. 0.197 min
Lab File: VL042529.D
Acq: 12 May 2025 11:15

Tgt Ion:	91	Resp:	921
Ion	Ratio	Lower	Upper
91	100		
106	27.0	26.0	39.0





#59

m/p-Xylene

Concen: 0.032 ppbv

RT: 9.542 min Scan# 2920

Delta R.T. 0.003 min

Lab File: VL042529.D

Acq: 12 May 2025 11:15

Instrument :

MSVOA_1

ClientSampleId :

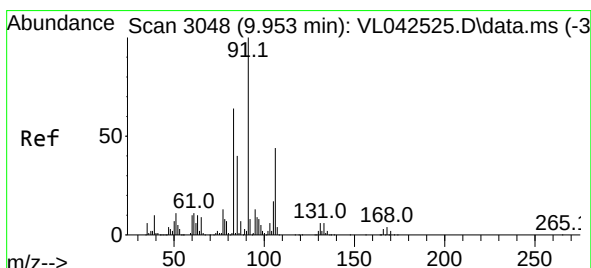
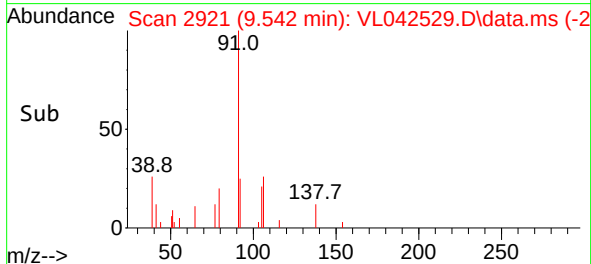
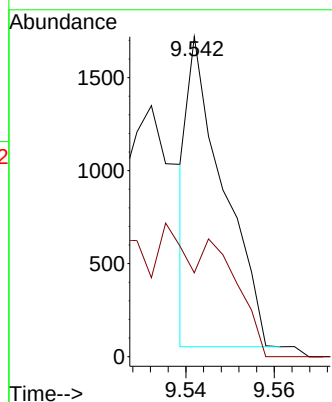
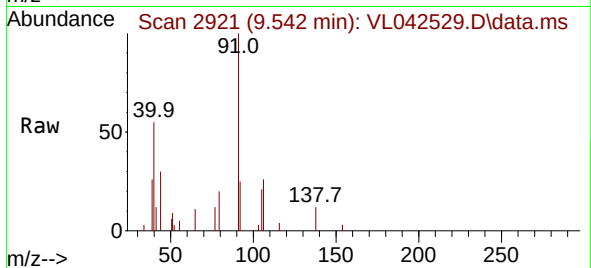
VSTDIC0.1

Tgt Ion: 91 Resp: 921

Ion Ratio Lower Upper

91 100

106 0.0 0.0 0.0



#60

o-Xylene

Concen: 0.045 ppbv

RT: 9.950 min Scan# 3047

Delta R.T. -0.003 min

Lab File: VL042529.D

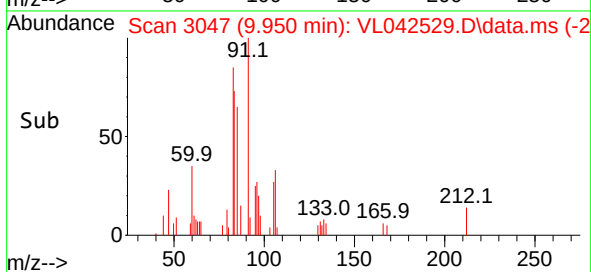
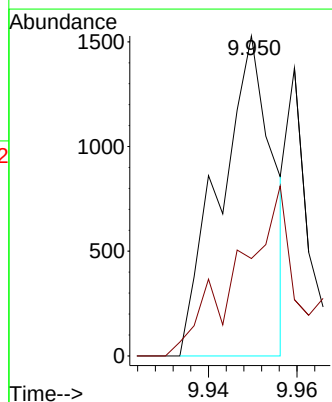
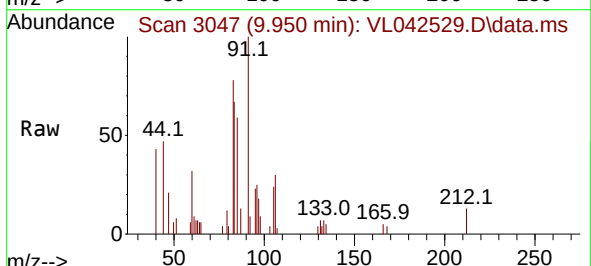
Acq: 12 May 2025 11:15

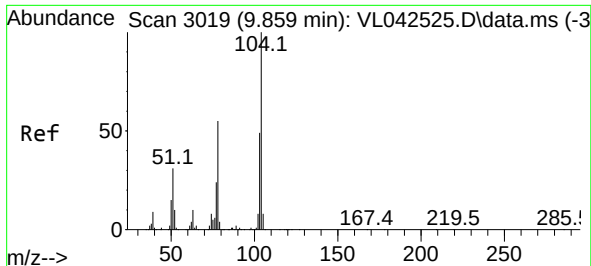
Tgt Ion: 91 Resp: 1267

Ion Ratio Lower Upper

91 100

106 0.0 21.6 64.6#

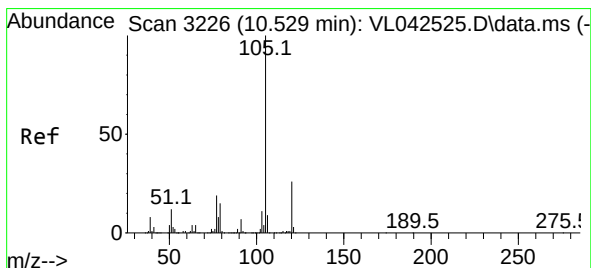
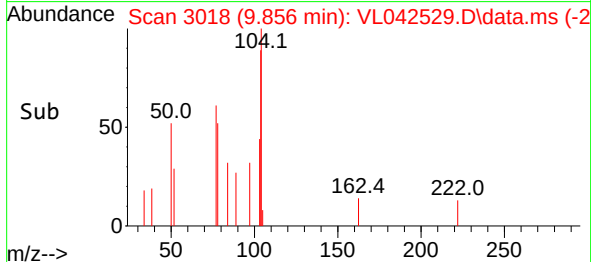
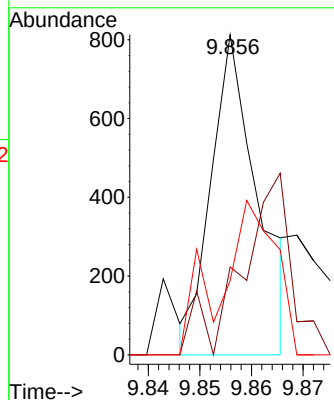
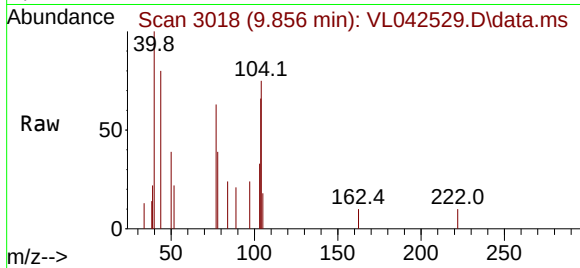




#61
Styrene
Concen: 0.049 ppbv
RT: 9.856 min Scan# 3019
Delta R.T. -0.003 min
Lab File: VL042529.D
Acq: 12 May 2025 11:15

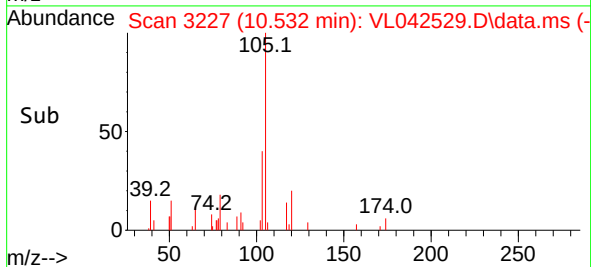
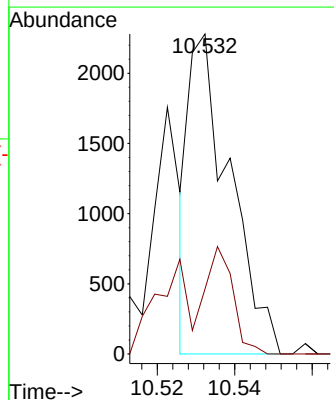
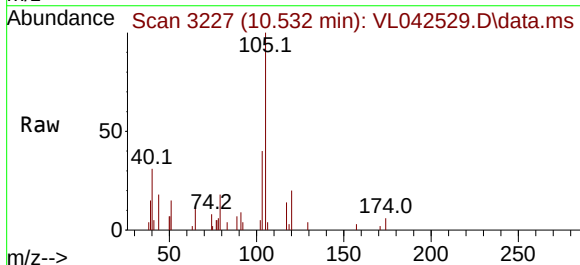
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

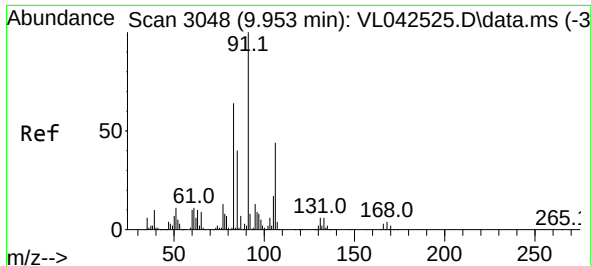
Tgt Ion:104 Resp: 508
Ion Ratio Lower Upper
104 100
78 0.0 44.7 67.1#
103 57.9 38.6 58.0



#62
Isopropylbenzene
Concen: 0.039 ppbv
RT: 10.532 min Scan# 3227
Delta R.T. 0.003 min
Lab File: VL042529.D
Acq: 12 May 2025 11:15

Tgt Ion:105 Resp: 1683
Ion Ratio Lower Upper
105 100
120 44.9 20.1 30.1#

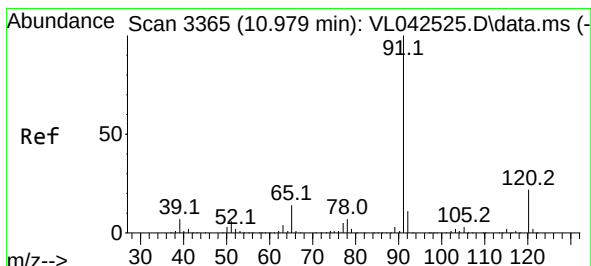
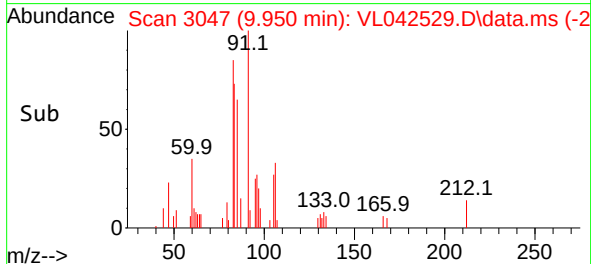
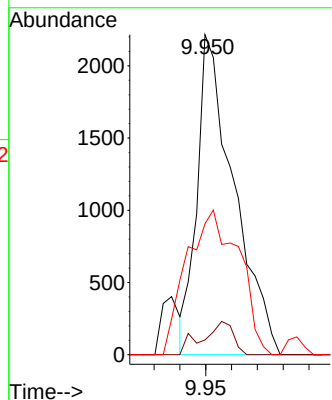
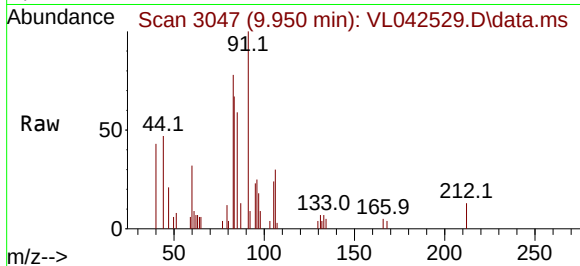




#63
1,1,2,2-Tetrachloroethane
Concen: 0.096 ppbv
RT: 9.950 min Scan# 3048
Delta R.T. -0.003 min
Lab File: VL042529.D
Acq: 12 May 2025 11:15

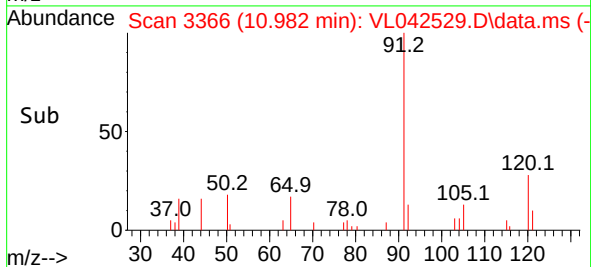
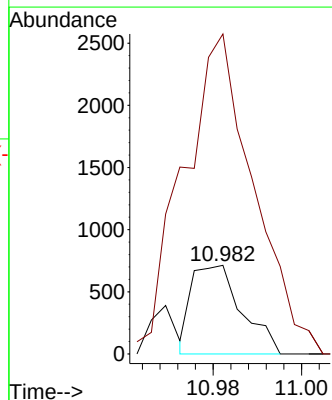
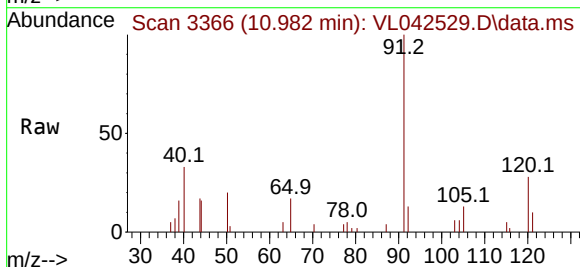
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

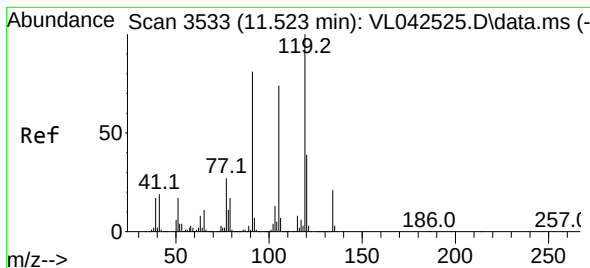
Tgt Ion: 83 Resp: 2194
Ion Ratio Lower Upper
83 100
131 8.6 4.9 14.7
85 66.8 32.3 96.8



#64
n-propylbenzene
Concen: 0.052 ppbv
RT: 10.982 min Scan# 3366
Delta R.T. 0.003 min
Lab File: VL042529.D
Acq: 12 May 2025 11:15

Tgt Ion: 120 Resp: 565
Ion Ratio Lower Upper
120 100
91 505.1 377.7 566.5

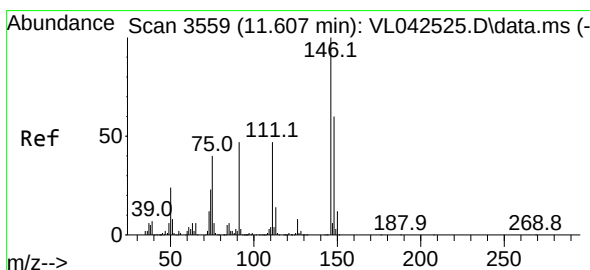
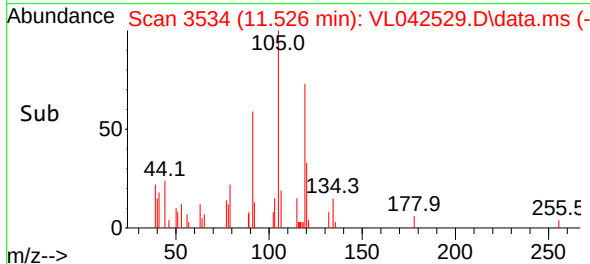
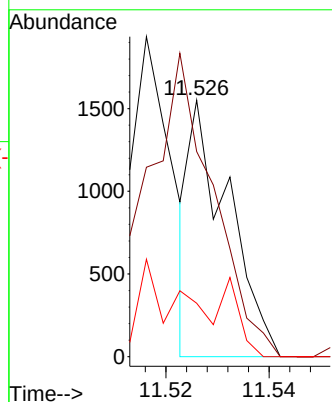
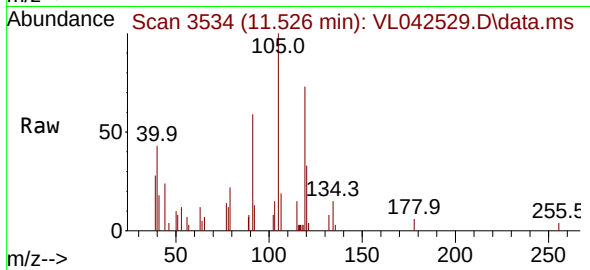




#65
tert-Butylbenzene
Concen: 0.021 ppbv
RT: 11.526 min Scan# 3533
Delta R.T. 0.003 min
Lab File: VL042529.D
Acq: 12 May 2025 11:15

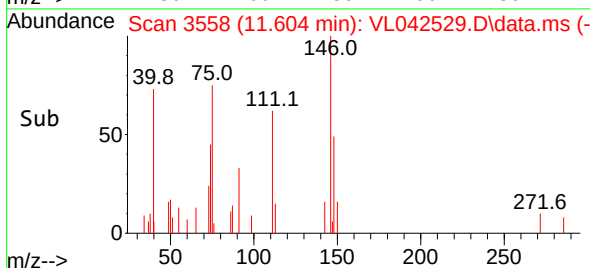
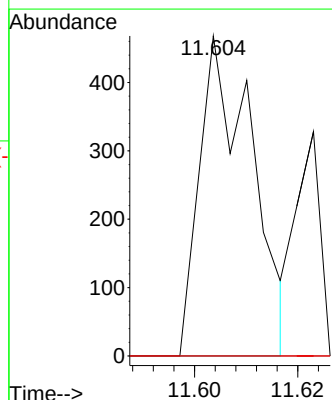
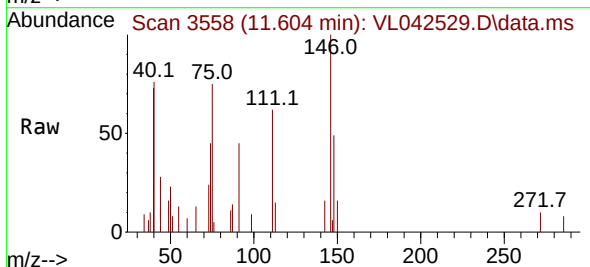
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

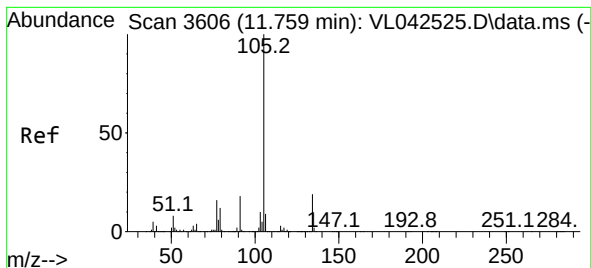
Tgt Ion:119 Resp: 809
Ion Ratio Lower Upper
119 100
91 224.2 66.6 99.8#
134 0.0 16.3 24.5#



#66
Benzyl Chloride
Concen: 0.063 ppbv
RT: 11.604 min Scan# 3558
Delta R.T. -0.003 min
Lab File: VL042529.D
Acq: 12 May 2025 11:15

Tgt Ion: 91 Resp: 329
Ion Ratio Lower Upper
91 100
126 0.0 13.7 20.5#
128 0.0 4.2 6.2#





#67

sec-Butylbenzene

Concen: 0.031 ppbv

RT: 11.762 min Scan# 3

Delta R.T. 0.003 min

Lab File: VL042529.D

Acq: 12 May 2025 11:15

Instrument :

MSVOA_1

ClientSampleId :

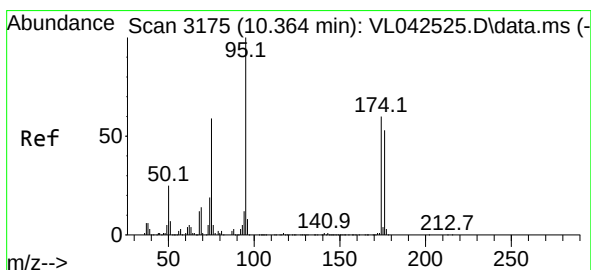
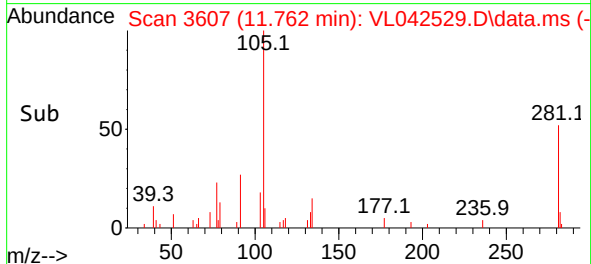
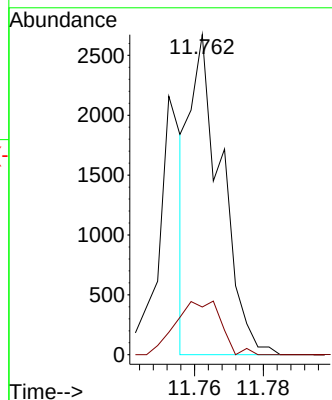
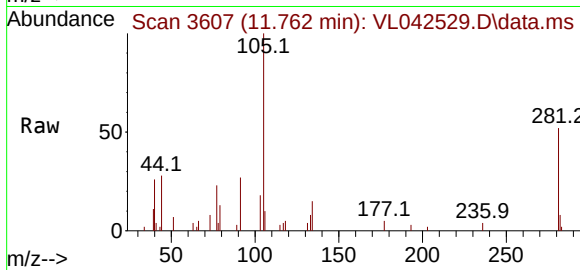
VSTDIC0.1

Tgt Ion:105 Resp: 1718

Ion Ratio Lower Upper

105 100

134 24.0 14.9 22.3#



#68

1-Bromo-4-Fluorobenzene

Concen: 9.645 ppbv

RT: 10.367 min Scan# 3176

Delta R.T. 0.003 min

Lab File: VL042529.D

Acq: 12 May 2025 11:15

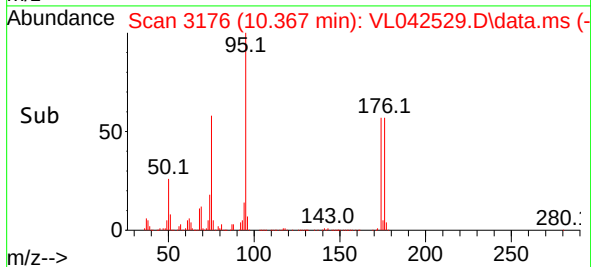
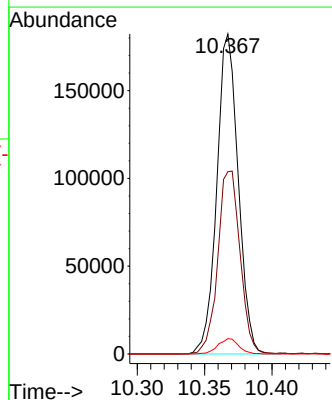
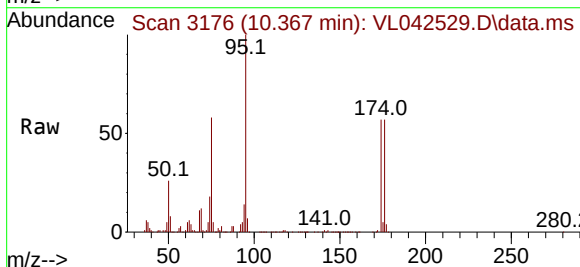
Tgt Ion: 95 Resp: 201627

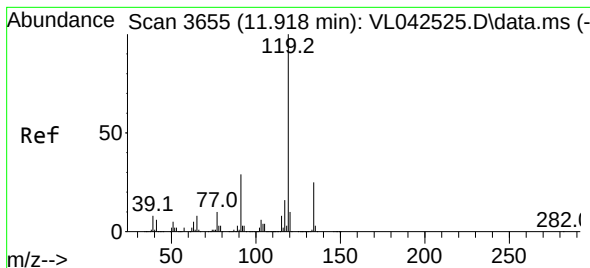
Ion Ratio Lower Upper

95 100

174 59.9 48.0 72.0

175 4.6 3.5 5.3





#69

p-Isopropyltoluene

Concen: 0.045 ppbv

RT: 11.918 min Scan# 3655

Delta R.T. -0.000 min

Lab File: VL042529.D

Acq: 12 May 2025 11:15

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

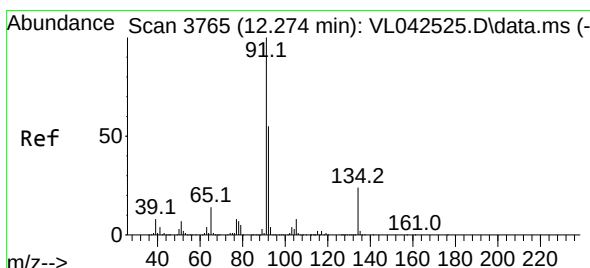
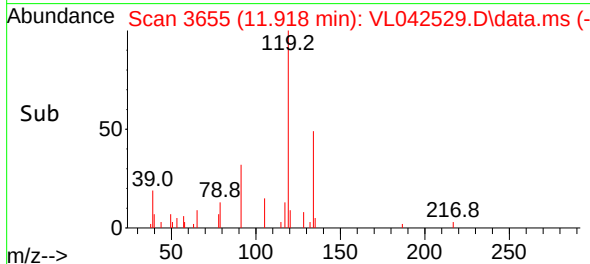
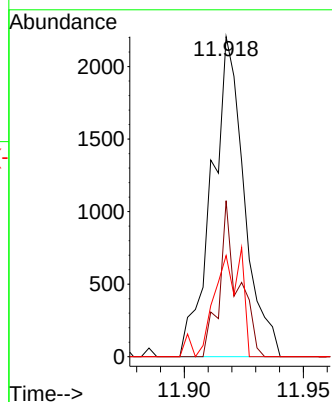
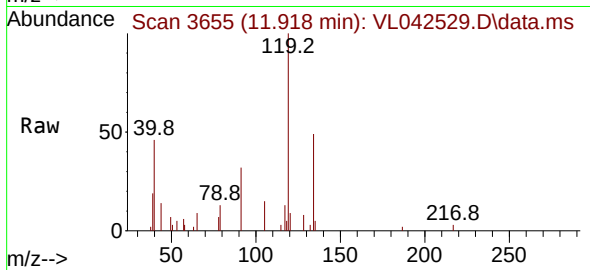
Tgt Ion:119 Resp: 2080

Ion Ratio Lower Upper

119 100

134 28.3 19.8 29.6

91 27.8 23.6 35.4



#70

n-Butylbenzene

Concen: 0.041 ppbv

RT: 12.270 min Scan# 3764

Delta R.T. -0.003 min

Lab File: VL042529.D

Acq: 12 May 2025 11:15

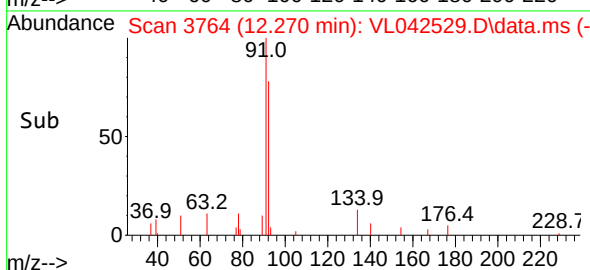
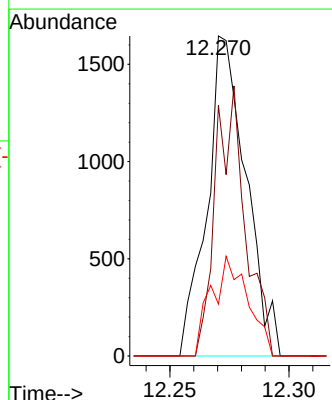
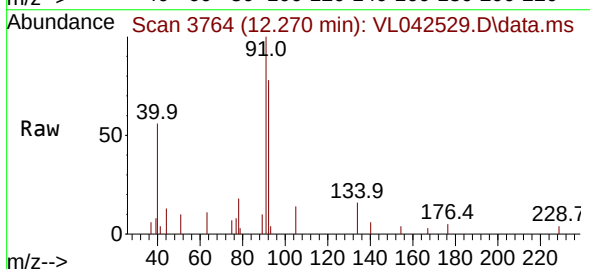
Tgt Ion: 91 Resp: 1876

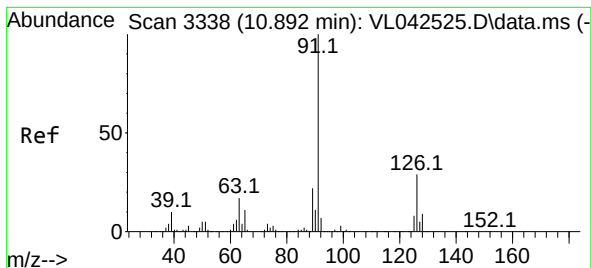
Ion Ratio Lower Upper

91 100

92 64.3 43.7 65.5

134 29.2 18.9 28.3#

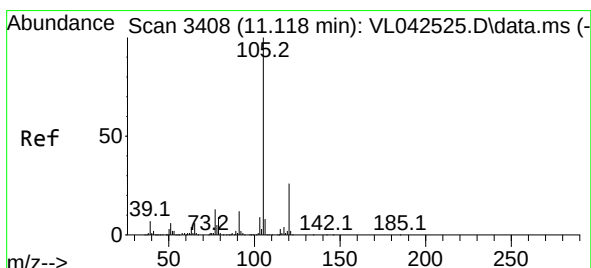
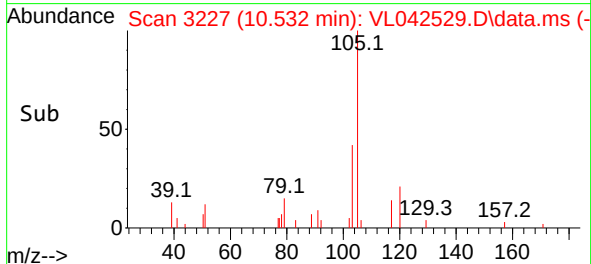
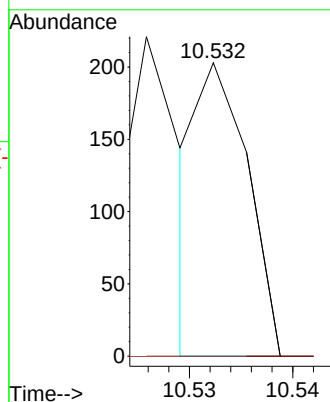
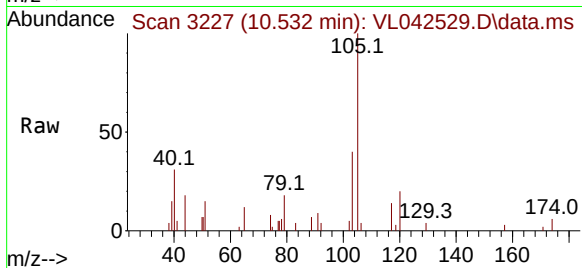




#71
2-Chlorotoluene
Concen: 0.002 ppbv
RT: 10.532 min Scan# 31
Delta R.T. -0.359 min
Lab File: VL042529.D
Acq: 12 May 2025 11:15

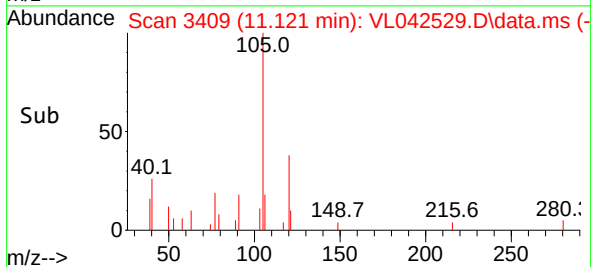
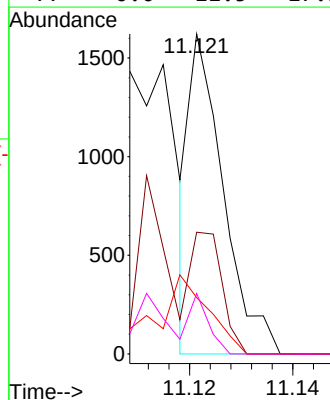
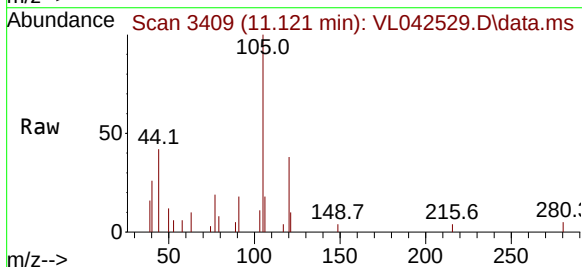
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

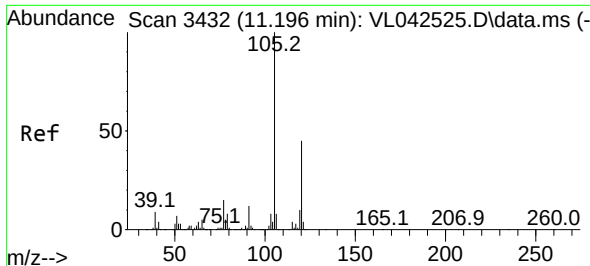
Tgt Ion: 91 Resp: 67
Ion Ratio Lower Upper
91 100
126 29.9 11.4 45.6



#72
4-Ethyltoluene
Concen: 0.021 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. 0.003 min
Lab File: VL042529.D
Acq: 12 May 2025 11:15

Tgt Ion: 105 Resp: 738
Ion Ratio Lower Upper
105 100
120 0.0 22.9 34.3#
91 44.7 10.9 16.3#
77 0.0 11.5 17.3#

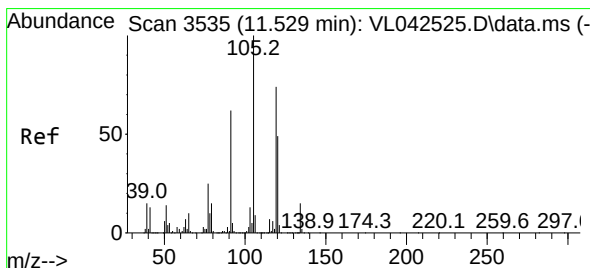
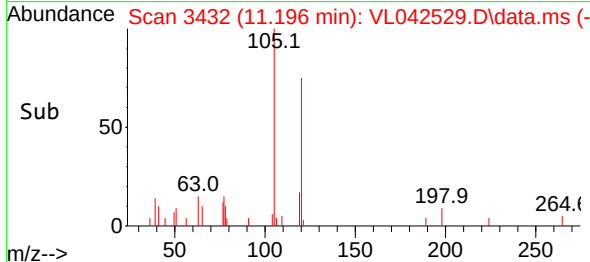
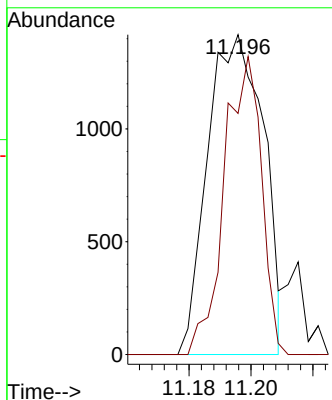
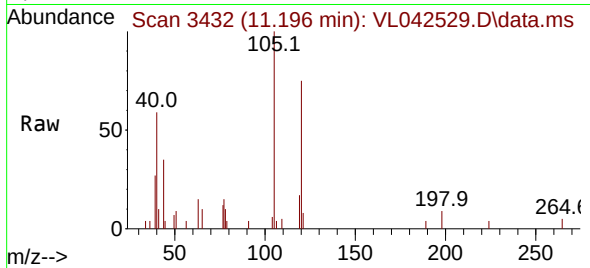




#73
 1,3,5-Trimethylbenzene
 Concen: 0.058 ppbv
 RT: 11.196 min Scan# 3432
 Delta R.T. -0.000 min
 Lab File: VL042529.D
 Acq: 12 May 2025 11:15

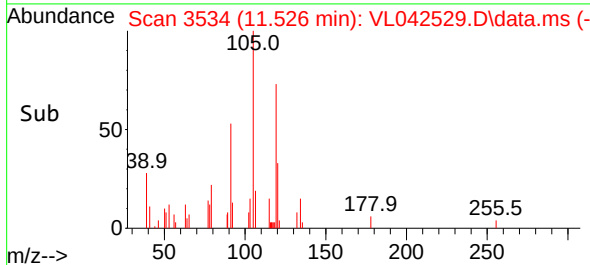
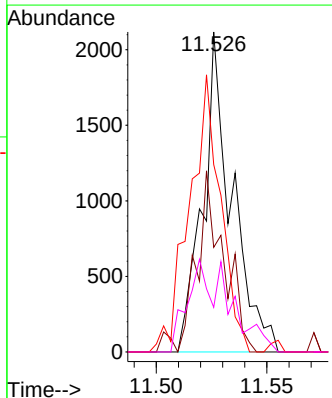
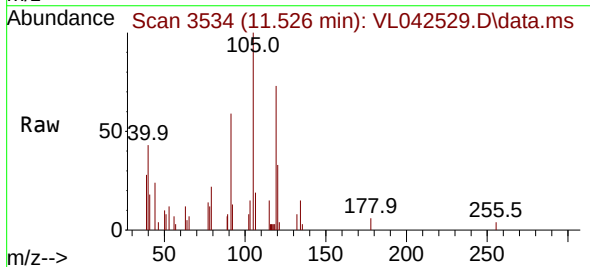
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

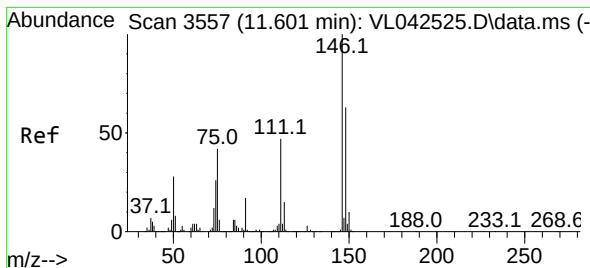
Tgt Ion:105 Resp: 1777
 Ion Ratio Lower Upper
 105 100
 120 75.4 36.0 54.0#



#74
 1,2,4-Trimethylbenzene
 Concen: 0.051 ppbv
 RT: 11.526 min Scan# 3534
 Delta R.T. -0.003 min
 Lab File: VL042529.D
 Acq: 12 May 2025 11:15

Tgt Ion:105 Resp: 1921
 Ion Ratio Lower Upper
 105 100
 120 32.7 39.0 58.6#
 91 54.9 49.4 74.2
 77 13.9 19.8 29.6#





#75

1,3-Dichlorobenzene

Concen: 0.023 ppbv

RT: 11.607 min Scan# 3557

Delta R.T. 0.006 min

Lab File: VL042529.D

Acq: 12 May 2025 11:15

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

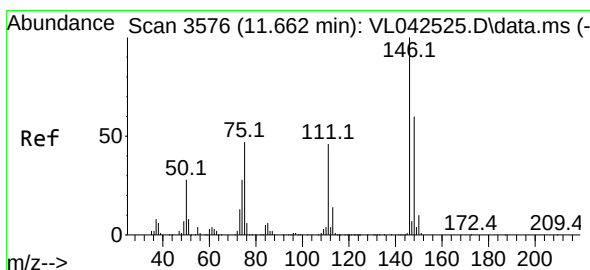
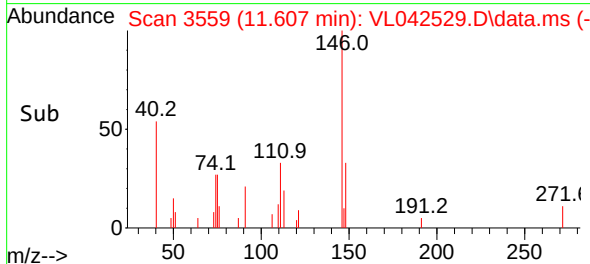
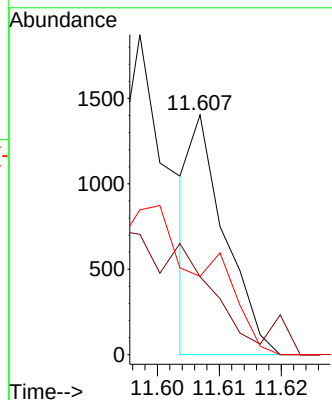
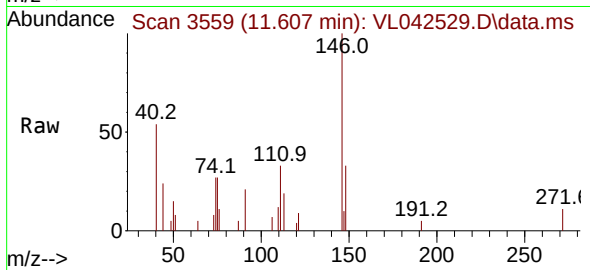
Tgt Ion:146 Resp: 536

Ion Ratio Lower Upper

146 100

111 0.0 23.6 71.0#

148 192.5 31.6 94.8#



#76

1,4-Dichlorobenzene

Concen: 0.037 ppbv

RT: 11.662 min Scan# 3576

Delta R.T. -0.000 min

Lab File: VL042529.D

Acq: 12 May 2025 11:15

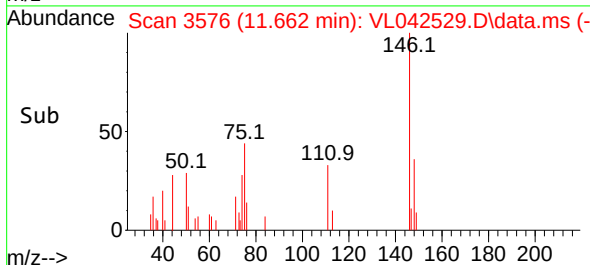
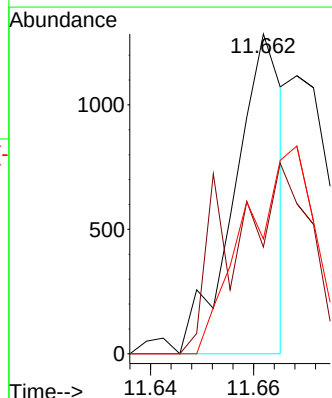
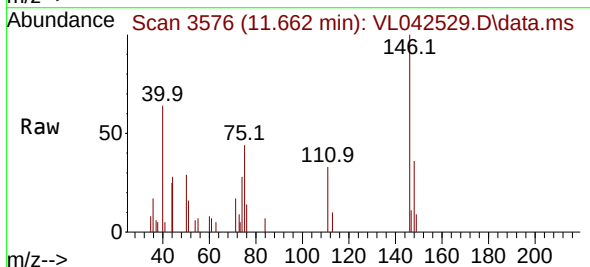
Tgt Ion:146 Resp: 835

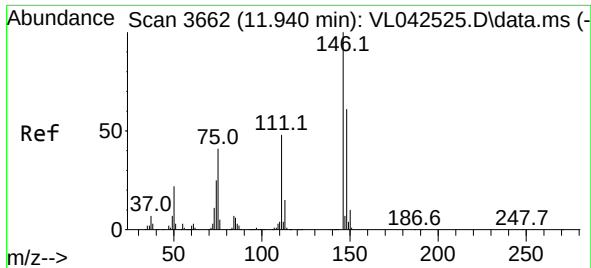
Ion Ratio Lower Upper

146 100

111 0.0 23.4 70.3#

148 0.0 31.6 94.7#

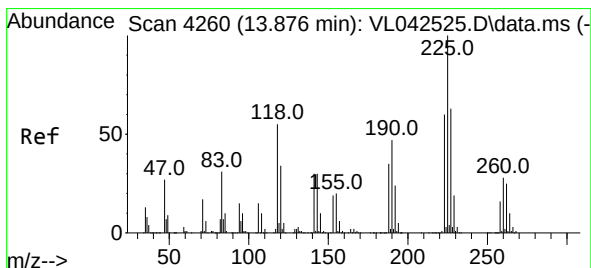
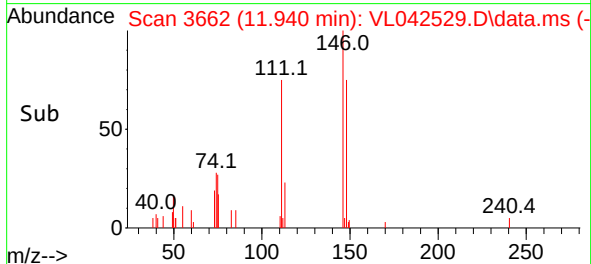
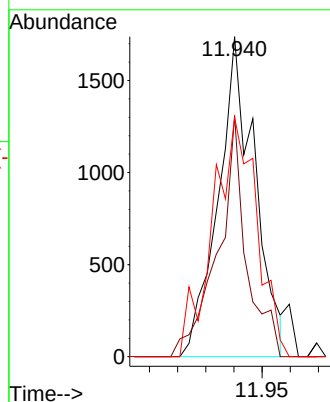
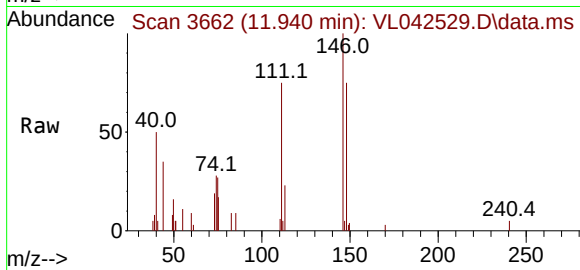




#77
 1,2-Dichlorobenzene
 Concen: 0.064 ppbv
 RT: 11.940 min Scan# 3662
 Delta R.T. -0.000 min
 Lab File: VL042529.D
 Acq: 12 May 2025 11:15

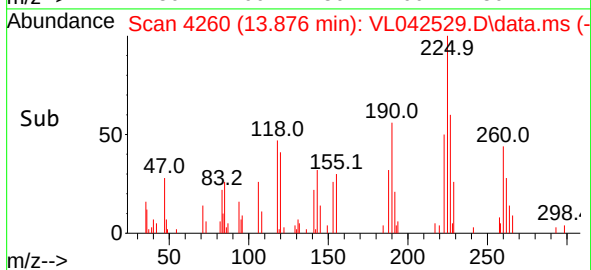
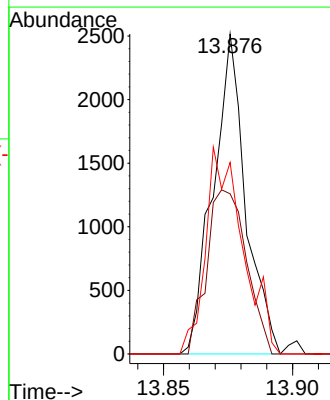
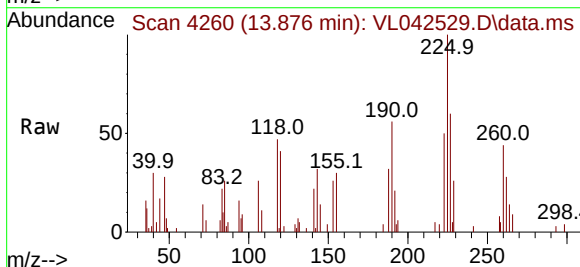
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

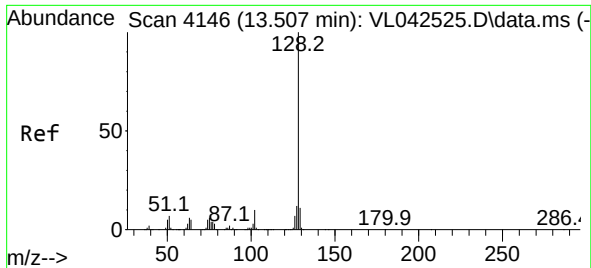
Tgt Ion:	146	Resp:	1567
Ion	Ratio	Lower	Upper
146	100		
111	58.3	24.9	74.8
148	89.9	31.4	94.2



#78
 Hexachloro-1,3-Butadiene
 Concen: 0.105 ppbv
 RT: 13.876 min Scan# 4260
 Delta R.T. -0.000 min
 Lab File: VL042529.D
 Acq: 12 May 2025 11:15

Tgt Ion:	225	Resp:	2199
Ion	Ratio	Lower	Upper
225	100		
223	63.0	50.8	76.2
227	73.9	50.5	75.7

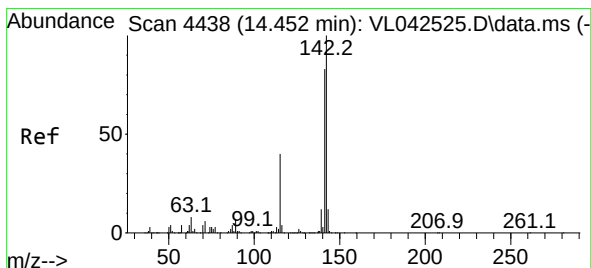
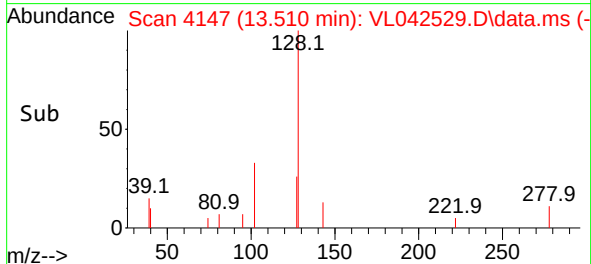
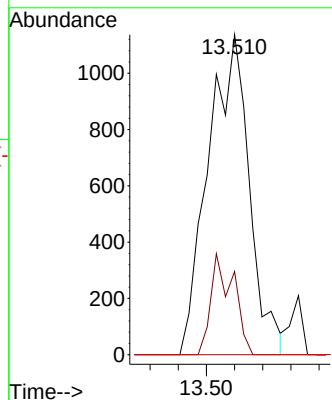
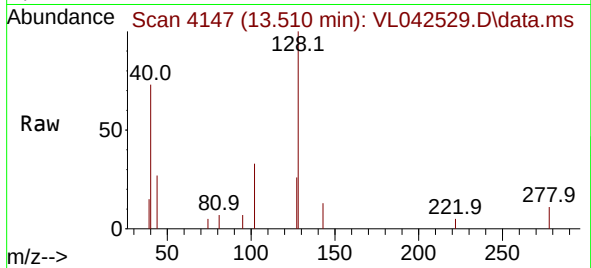




#79
Naphthalene
Concen: 0.044 ppbv
RT: 13.510 min Scan# 4146
Delta R.T. 0.003 min
Lab File: VL042529.D
Acq: 12 May 2025 11:15

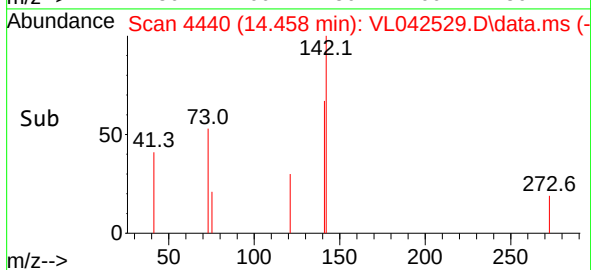
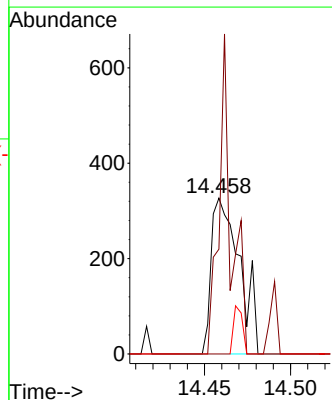
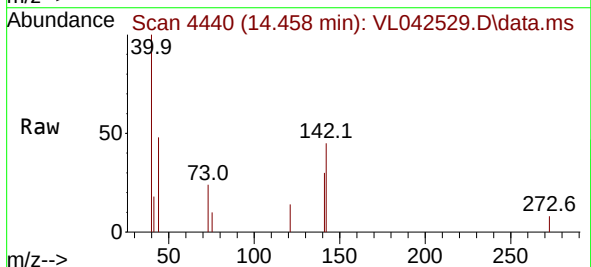
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

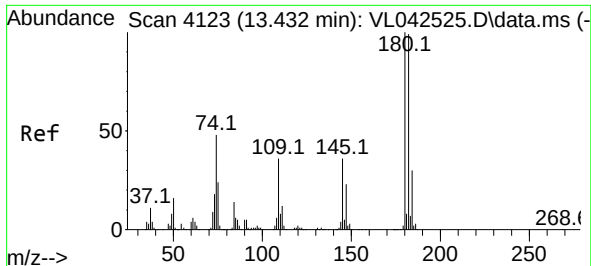
Tgt Ion:128 Resp: 1152
Ion Ratio Lower Upper
128 100
127 26.0 9.8 14.8#
129 0.0 8.6 12.8#



#80
Naphthalene,2-methyl-
Concen: 0.025 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. 0.006 min
Lab File: VL042529.D
Acq: 12 May 2025 11:15

Tgt Ion:142 Resp: 372
Ion Ratio Lower Upper
142 100
141 89.5 66.8 100.2
115 0.0 33.0 49.6#





#81

1,2,4-Trichlorobenzene

Concen: 0.011 ppbv

RT: 13.429 min Scan# 41

Delta R.T. -0.003 min

Lab File: VL042529.D

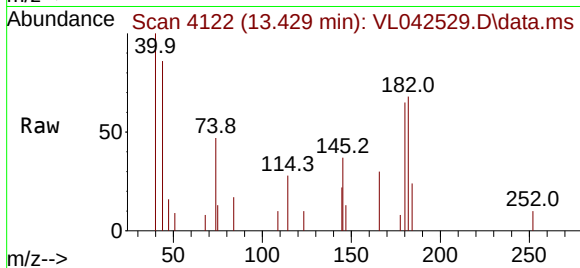
Acq: 12 May 2025 11:15

Instrument :

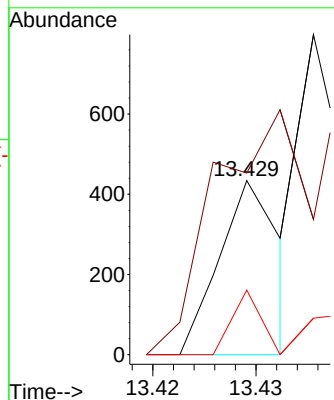
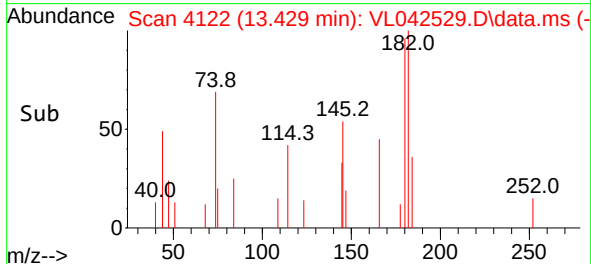
MSVOA_L

ClientSampleId :

VSTDIC0.1



Tgt Ion:180	Resp:	179
Ion Ratio	Lower	Upper
180	100	
182	0.0	76.6 114.8#
184	0.0	24.6 36.8#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051225\
 Data File : VL042530.D
 Acq On : 12 May 2025 11:49
 Operator : SY/MD
 Sample : VSTDICC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

Quant Time: May 12 23:49:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Mon May 12 23:42:45 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.780	49	96870	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	261294	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	223954	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	190537	9.778	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.800%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.495	85	610	0.039	ppbv #	52
3) Chlorodifluoromethane	1.476	51	618	0.039	ppbv	99
4) Chloromethane	1.528	50	157	0.024	ppbv #	55
5) Vinyl Chloride	1.576	62	229	0.035	ppbv #	4
6) Bromomethane	1.661	94	216	0.069	ppbv #	9
7) Chloroethane	1.699	64	31	0.012	ppbv #	43
8) Dichlorotetrafluoroethane	1.550	85	522	0.039	ppbv #	67
9) Propene	1.479	41	378	0.109	ppbv #	85
10) Heptane	4.965	43	45	0.003	ppbv #	1
11) Trichlorofluoromethane	1.874	101	621	0.041	ppbv #	79
12) 1,1,2-Trichlorotrifluo...	2.136	101	342	0.028	ppbv #	52
13) Ethanol	1.716	45	163	0.172	ppbv	95
14) Bromoethene	1.777	108	225	0.051	ppbv #	70
15) Acetone	1.832	43	1762	0.114	ppbv #	70
16) 1,3-Butadiene	1.599	39	411	0.059	ppbv	87
17) tert-Butyl alcohol	2.039	59	645	0.045	ppbv #	68
18) 1,1-Dichloroethene	2.026	96	327	0.061	ppbv #	28
19) Isopropyl Alcohol	1.881	45	840	0.100	ppbv #	95
20) Methylene Chloride	2.055	84	1336	0.248	ppbv	88
21) Allyl Chloride	2.094	41	335	0.033	ppbv #	1
22) trans-1,2-Dichloroethene	2.340	96	358	0.057	ppbv #	4
23) Vinyl Acetate	2.457	43	565	0.035	ppbv #	64
24) 1,1-Dichloroethane	2.402	63	608	0.050	ppbv #	87
25) Ethyl Acetate	2.826	43	120	0.004	ppbv #	75
26) Hexane	2.819	57	126	0.011	ppbv #	1
27) Carbon Disulfide	2.143	76	651	0.045	ppbv #	1
28) Methyl tert-Butyl Ether	2.437	73	389	0.063	ppbv #	76
29) Chloroform	2.842	83	596	0.026	ppbv	92
30) Cyclohexane	3.748	84	42	0.005	ppbv #	21
31) cis-1,2-Dichloroethene	2.712	61	166	0.013	ppbv #	79
32) 1,1,1-Trichloroethane	3.360	97	730	0.031	ppbv	96
34) 2-Butanone	2.554	43	446	0.026	ppbv #	79
35) Carbon Tetrachloride	3.751	117	468	0.020	ppbv #	47
36) Benzene	3.648	78	671	0.029	ppbv #	80
37) 1,2-Dichloroethane	3.208	62	349	0.021	ppbv #	82
38) Trichloroethene	4.531	130	323	0.033	ppbv #	63
39) 1,2-Dichloropropane	3.949	63	68604	7.959	ppbv #	17
40) 1,4-Dioxane	4.554	88	36	0.010	ppbv #	13
41) Tetrahydrofuran	3.052	42	21	0.003	ppbv #	36
42) Bromodichloromethane	4.473	83	194	0.009	ppbv #	72
43) Methyl Methacrylate	4.865	69	14	0.002	ppbv #	1
44) 2,2,4-Trimethylpentane	4.628	57	487	0.013	ppbv #	41
45) t-1,3-Dichloropropene	6.399	75	25	0.003	ppbv #	46

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051225\
 Data File : VL042530.D
 Acq On : 12 May 2025 11:49
 Operator : SY/MD
 Sample : VSTDICC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

Quant Time: May 12 23:49:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Mon May 12 23:42:45 2025
 Response via : Initial Calibration

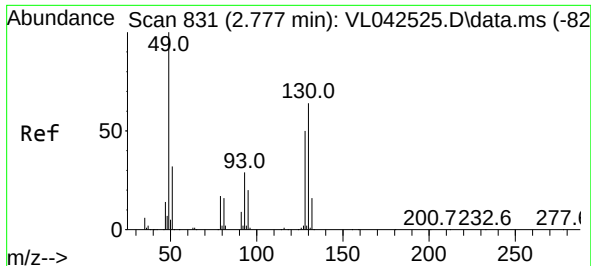
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
46) cis-1,3-Dichloropropene	5.580	75	207	0.017	ppbv	#	81
47) 1,1,2-Trichloroethane	6.570	97	81	0.008	ppbv	#	44
48) Dibromochloromethane	7.376	129	247	0.015	ppbv	#	1
49) Bromoform	9.474	173	477	0.034	ppbv	#	45
50) 4-Methyl-2-Pentanone	5.768	43	82	0.004	ppbv	#	39
51) 2-Hexanone	7.418	43	39	0.003	ppbv	#	44
52) Tetrachloroethene	8.221	164	109	0.012	ppbv	#	43
53) Toluene	6.758	91	38	0.002	ppbv		92
54) 1,2-Dibromoethane	7.635	107	204	0.014	ppbv		83
56) 1,1,1,2-Tetrachloroethane	8.927	131	92	0.007	ppbv	#	9
57) Chlorobenzene	8.917	112	338	0.015	ppbv	#	84
58) Ethyl Benzene	9.529	91	281	0.009	ppbv		97
59) m/p-Xylene	9.538	91	331	0.012	ppbv	#	100
60) o-Xylene	9.950	91	507	0.019	ppbv		100
61) Styrene	9.862	104	96	0.010	ppbv	#	52
62) Isopropylbenzene	10.529	105	403	0.010	ppbv	#	11
63) 1,1,2,2-Tetrachloroethane	9.959	83	444	0.021	ppbv	#	43
64) n-propylbenzene	10.988	120	138	0.014	ppbv	#	18
65) tert-Butylbenzene	11.523	119	618	0.017	ppbv	#	96
66) Benzyl Chloride	11.616	91	44	0.009	ppbv	#	66
67) sec-Butylbenzene	11.762	105	653	0.012	ppbv	#	68
69) p-Isopropyltoluene	11.924	119	375	0.009	ppbv	#	35
70) n-Butylbenzene	12.280	91	493	0.012	ppbv	#	82
71) 2-Chlorotoluene	10.901	91	501	0.017	ppbv		94
72) 4-Ethyltoluene	11.121	105	320	0.010	ppbv	#	60
73) 1,3,5-Trimethylbenzene	11.202	105	496	0.017	ppbv	#	74
74) 1,2,4-Trimethylbenzene	11.535	105	568	0.016	ppbv	#	62
75) 1,3-Dichlorobenzene	11.600	146	423	0.019	ppbv		85
76) 1,4-Dichlorobenzene	11.662	146	56	0.003	ppbv	#	23
77) 1,2-Dichlorobenzene	11.675	146	244	0.011	ppbv		91
78) Hexachloro-1,3-Butadiene	13.876	225	796	0.041	ppbv		89
79) Naphthalene	13.507	128	112	0.005	ppbv	#	70
80) Naphthalene,2-methyl-	14.491	142	90	0.006	ppbv	#	35
81) 1,2,4-Trichlorobenzene	13.442	180	23	0.002	ppbv	#	12

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

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

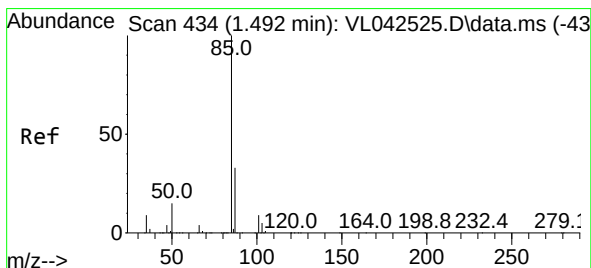
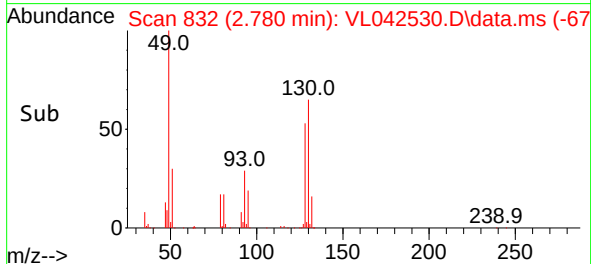
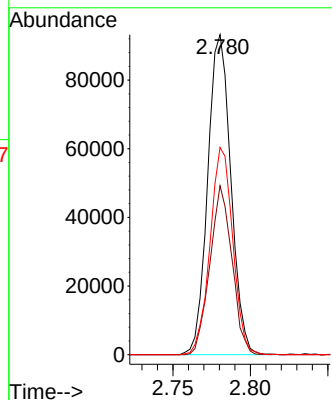
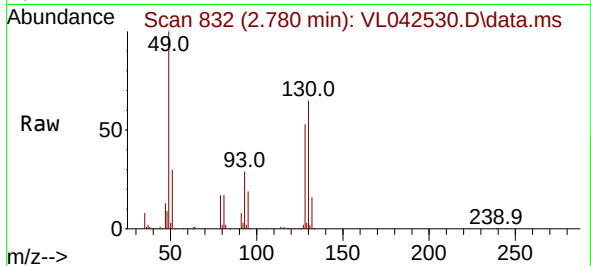




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.780 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042530.D
Acq: 12 May 2025 11:49

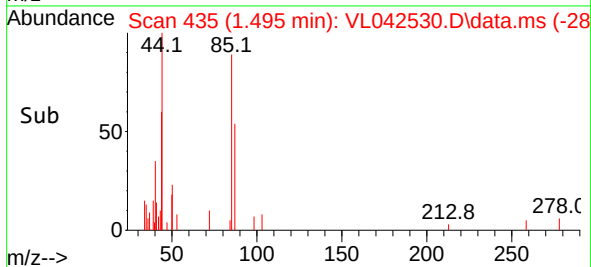
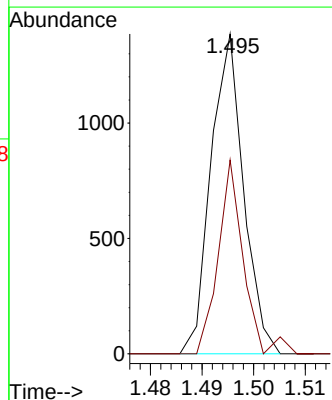
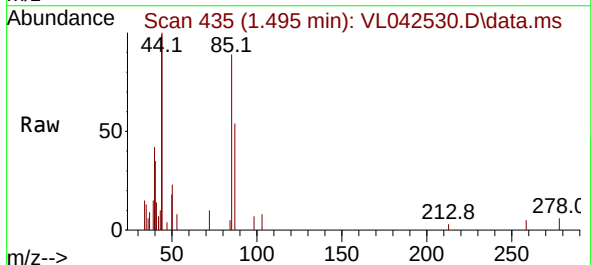
Instrument :
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ClientSampleId :
VSTDIC0.03

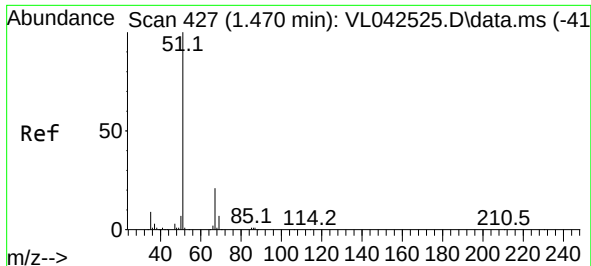
Tgt Ion: 49 Resp: 96870
Ion Ratio Lower Upper
49 100
128 50.2 24.9 74.6
130 63.5 32.5 97.5



#2
Dichlorodifluoromethane
Concen: 0.039 ppbv
RT: 1.495 min Scan# 435
Delta R.T. 0.003 min
Lab File: VL042530.D
Acq: 12 May 2025 11:49

Tgt Ion: 85 Resp: 610
Ion Ratio Lower Upper
85 100
87 60.6 26.8 40.2#

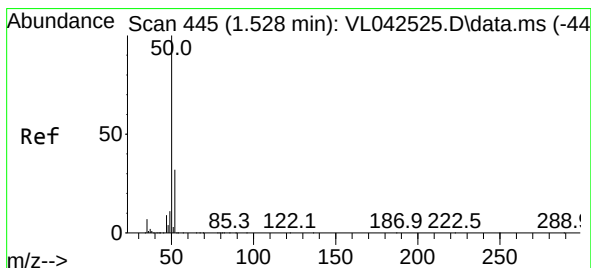
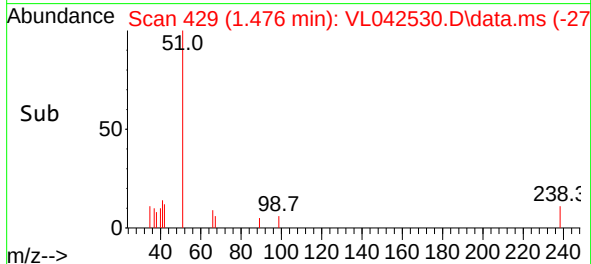
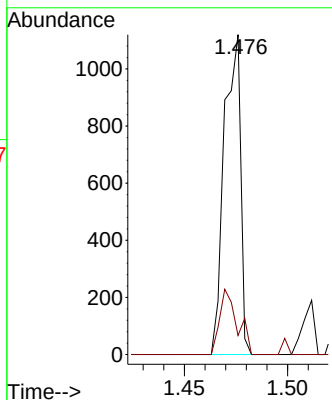
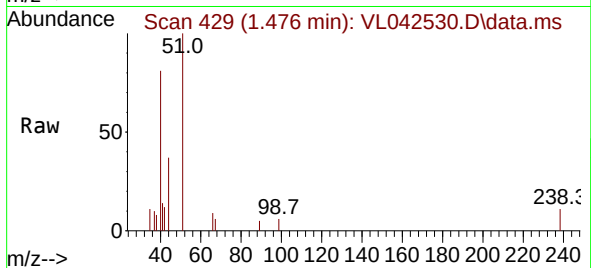




#3
Chlorodifluoromethane
Concen: 0.039 ppbv
RT: 1.476 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL042530.D
Acq: 12 May 2025 11:49

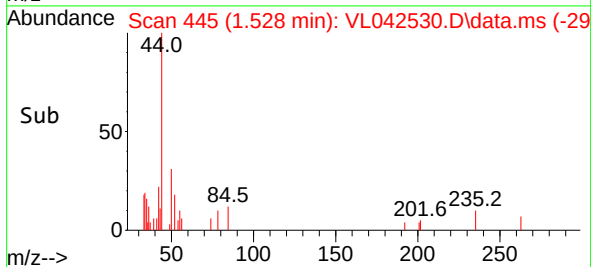
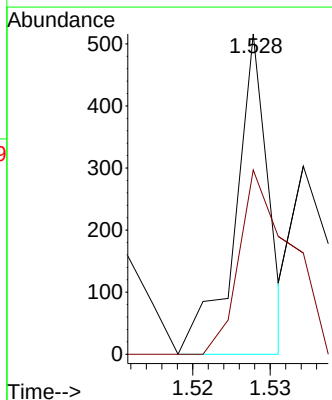
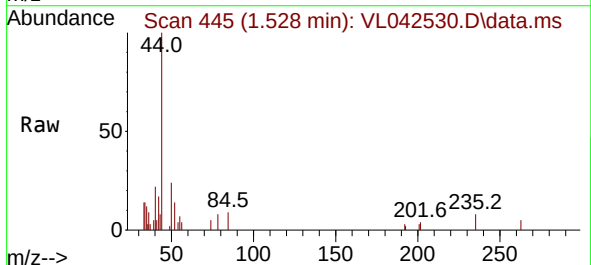
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

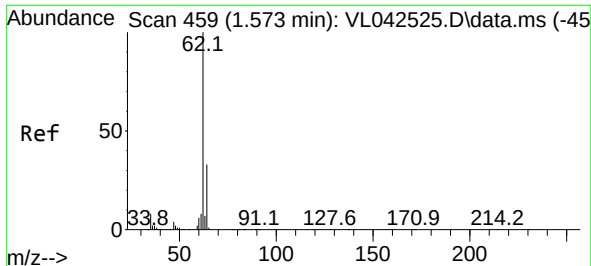
Tgt Ion: 51 Resp: 618
Ion Ratio Lower Upper
51 100
67 22.0 17.4 26.0



#4
Chloromethane
Concen: 0.024 ppbv
RT: 1.528 min Scan# 445
Delta R.T. -0.000 min
Lab File: VL042530.D
Acq: 12 May 2025 11:49

Tgt Ion: 50 Resp: 157
Ion Ratio Lower Upper
50 100
52 57.6 25.9 38.9#

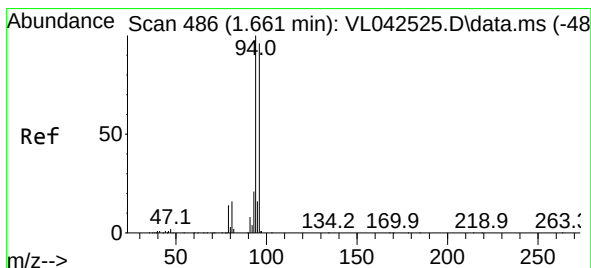
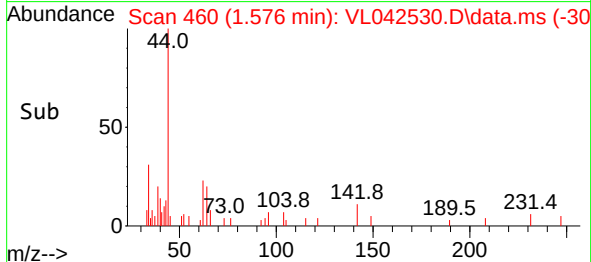
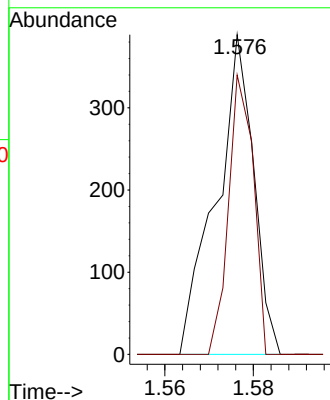
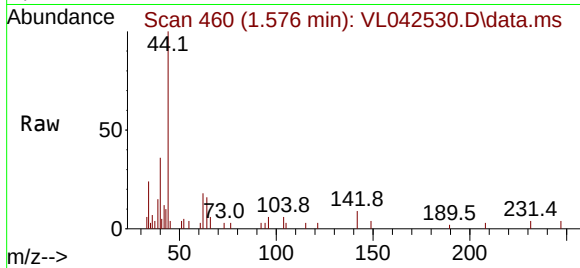




#5
 Vinyl Chloride
 Concen: 0.035 ppbv
 RT: 1.576 min Scan# 459
 Delta R.T. 0.003 min
 Lab File: VL042530.D
 Acq: 12 May 2025 11:49

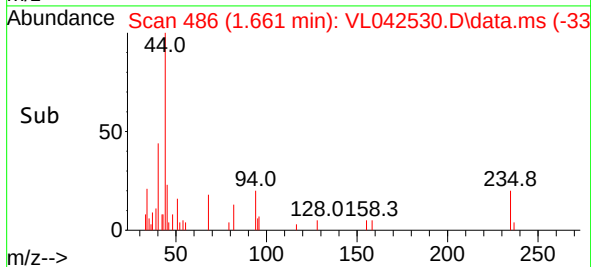
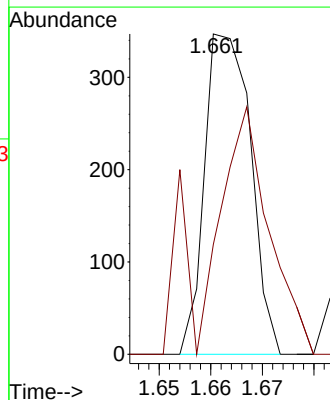
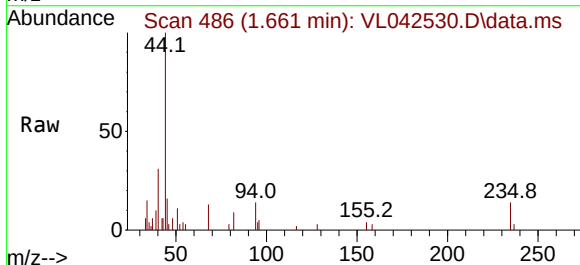
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.03

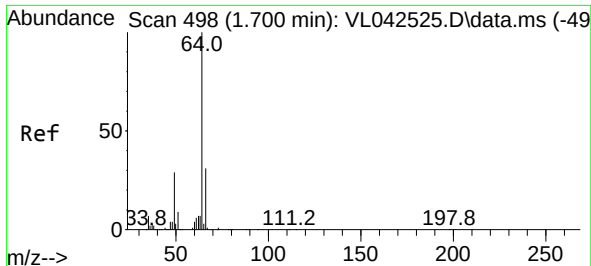
Tgt Ion: 62 Resp: 229
 Ion Ratio Lower Upper
 62 100
 64 87.4 26.5 39.7#



#6
 Bromomethane
 Concen: 0.069 ppbv
 RT: 1.661 min Scan# 486
 Delta R.T. -0.000 min
 Lab File: VL042530.D
 Acq: 12 May 2025 11:49

Tgt Ion: 94 Resp: 216
 Ion Ratio Lower Upper
 94 100
 96 7.2 76.9 115.3#

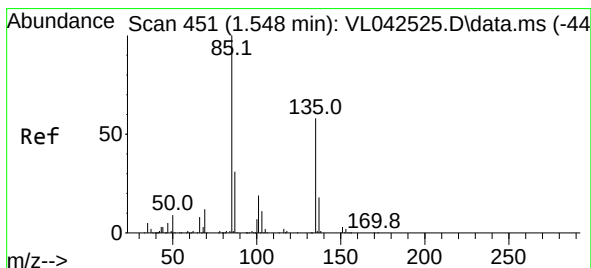
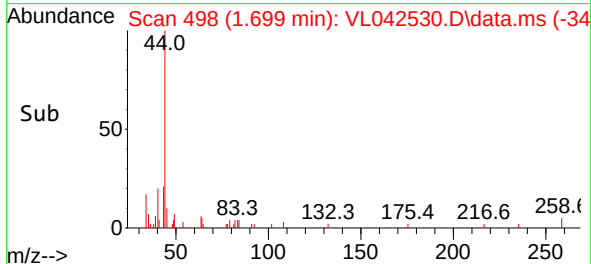
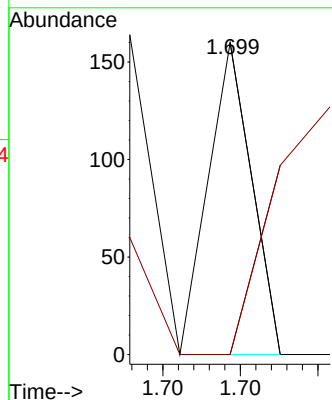
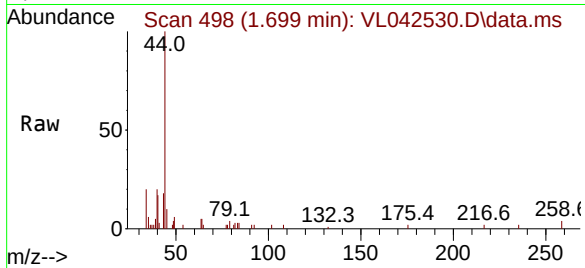




#7
Chloroethane
Concen: 0.012 ppbv
RT: 1.699 min Scan# 498
Delta R.T. -0.000 min
Lab File: VL042530.D
Acq: 12 May 2025 11:49

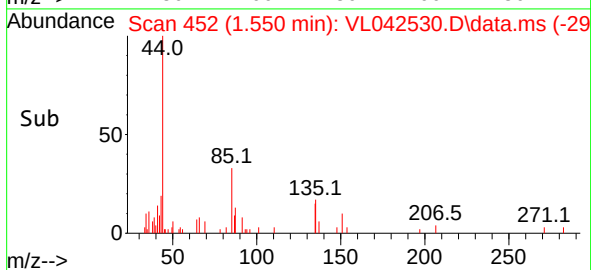
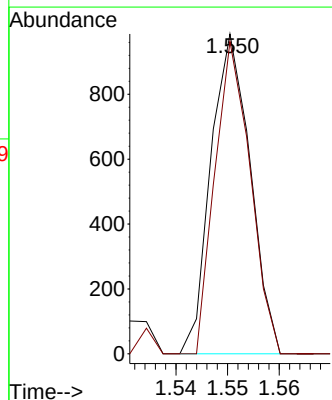
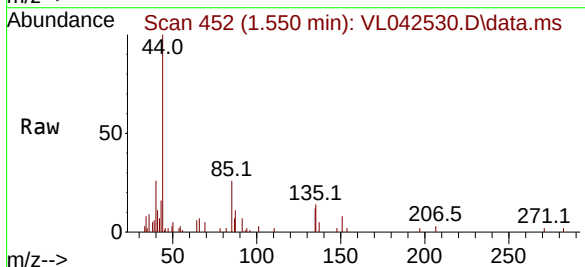
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.03

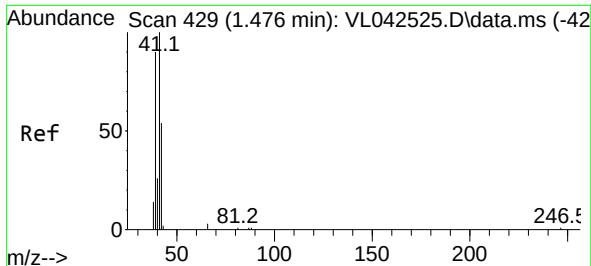
Tgt Ion: 64 Resp: 31
Ion Ratio Lower Upper
64 100
66 0.0 25.1 37.7#



#8
Dichlorotetrafluoroethane
Concen: 0.039 ppbv
RT: 1.550 min Scan# 452
Delta R.T. 0.003 min
Lab File: VL042530.D
Acq: 12 May 2025 11:49

Tgt Ion: 85 Resp: 522
Ion Ratio Lower Upper
85 100
135 90.6 51.8 77.8#

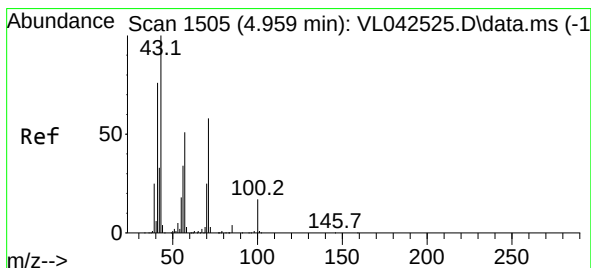
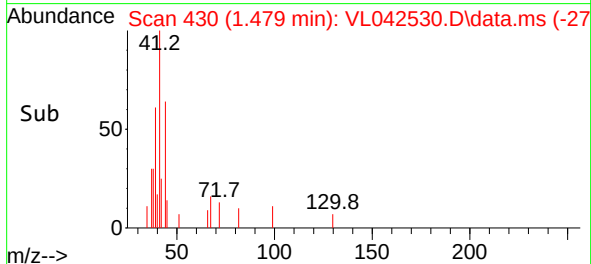
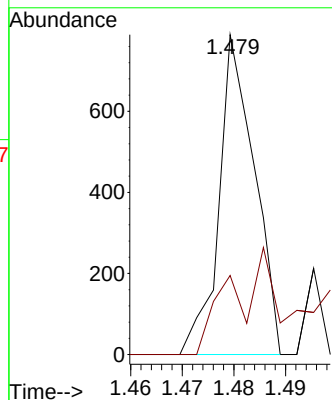
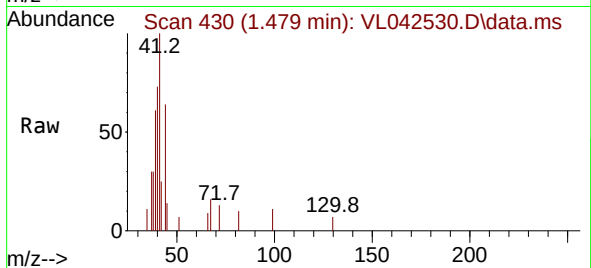




#9
Propene
Concen: 0.109 ppbv
RT: 1.479 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042530.D
Acq: 12 May 2025 11:49

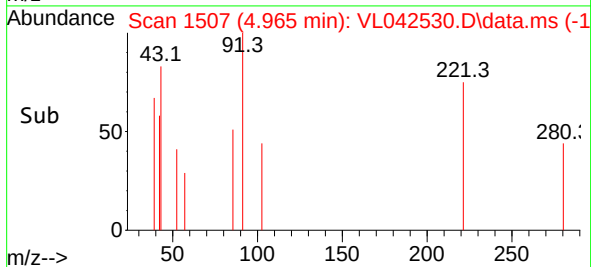
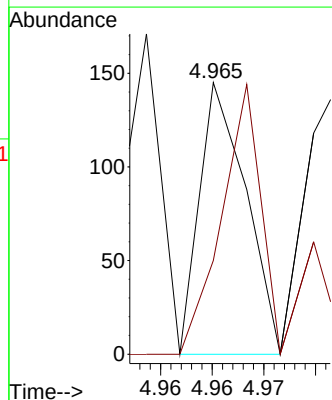
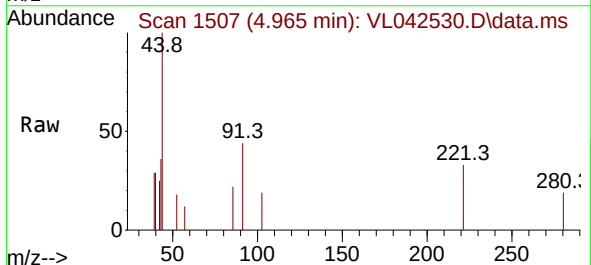
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.03

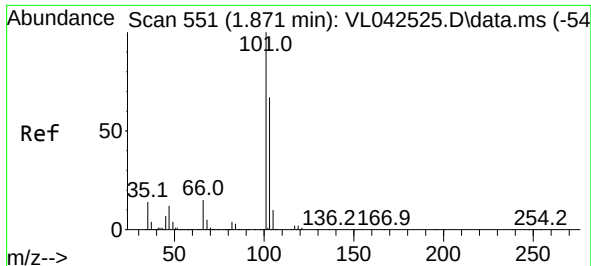
Tgt Ion: 41 Resp: 378
Ion Ratio Lower Upper
41 100
42 0.0 4.1 6.1#



#10
Heptane
Concen: 0.003 ppbv
RT: 4.965 min Scan# 1507
Delta R.T. 0.006 min
Lab File: VL042530.D
Acq: 12 May 2025 11:49

Tgt Ion: 43 Resp: 45
Ion Ratio Lower Upper
43 100
57 133.3 42.1 63.1#

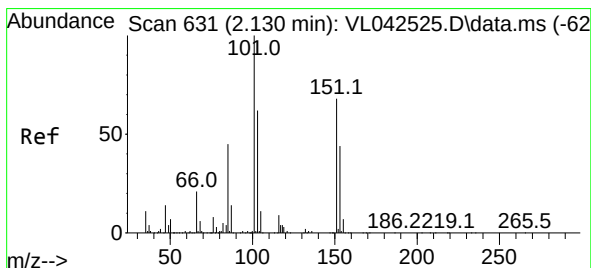
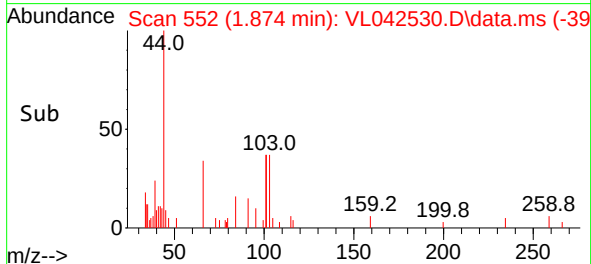
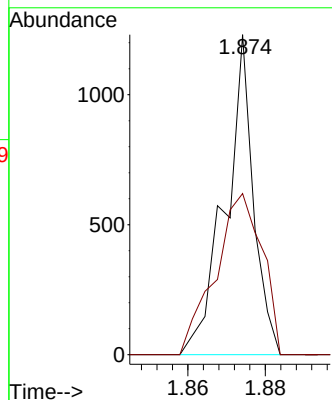
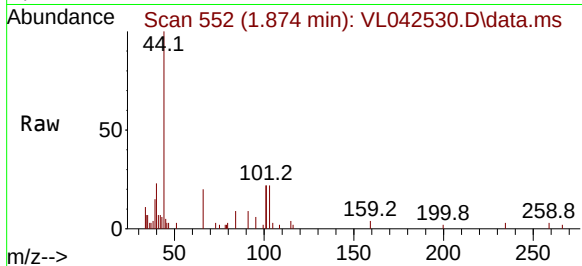




#11
 Trichlorofluoromethane
 Concen: 0.041 ppbv
 RT: 1.874 min Scan# 511
 Delta R.T. 0.003 min
 Lab File: VL042530.D
 Acq: 12 May 2025 11:49

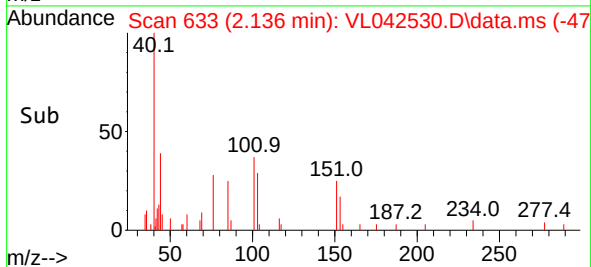
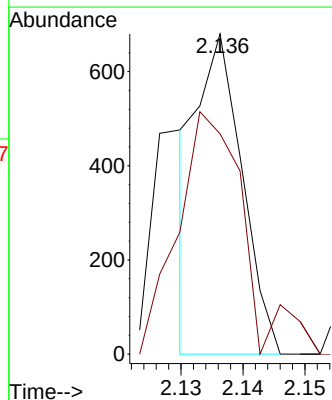
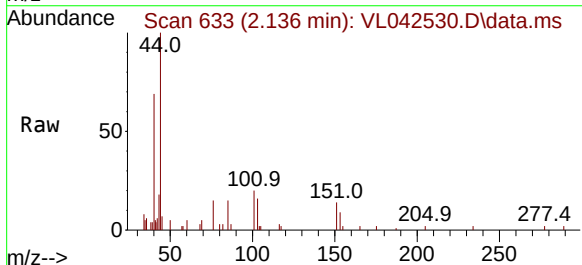
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.03

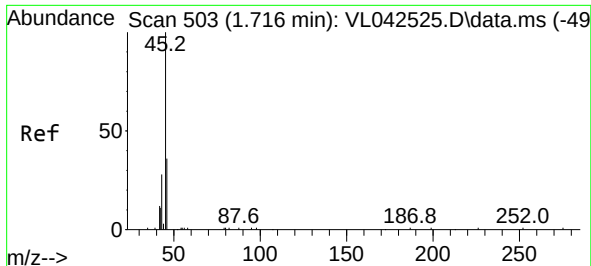
Tgt Ion:101 Resp: 621
 Ion Ratio Lower Upper
 101 100
 103 50.4 53.8 80.6#



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.028 ppbv
 RT: 2.136 min Scan# 633
 Delta R.T. 0.006 min
 Lab File: VL042530.D
 Acq: 12 May 2025 11:49

Tgt Ion:101 Resp: 342
 Ion Ratio Lower Upper
 101 100
 151 112.3 57.8 86.8#

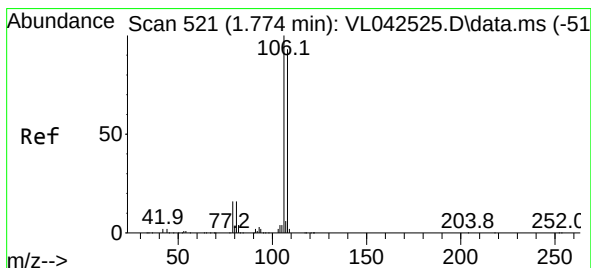
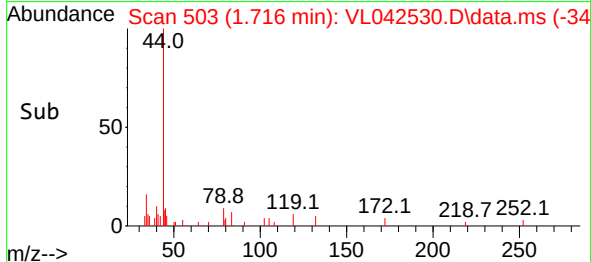
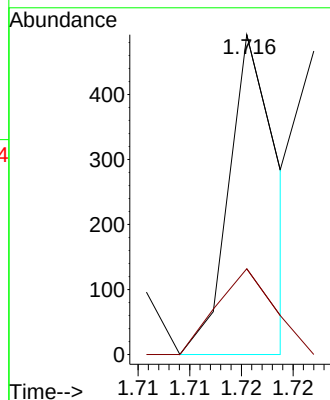
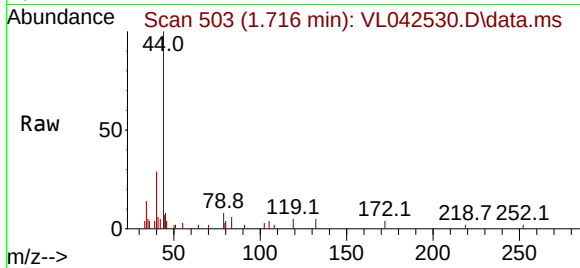




#13
Ethanol
Concen: 0.172 ppbv
RT: 1.716 min Scan# 503
Delta R.T. -0.000 min
Lab File: VL042530.D
Acq: 12 May 2025 11:49

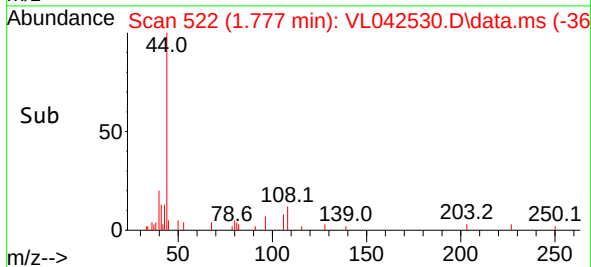
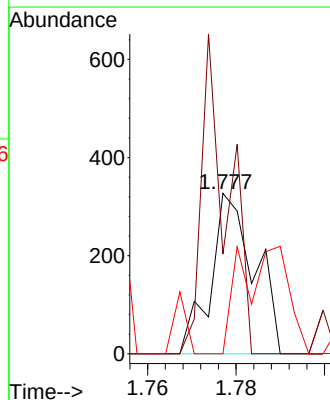
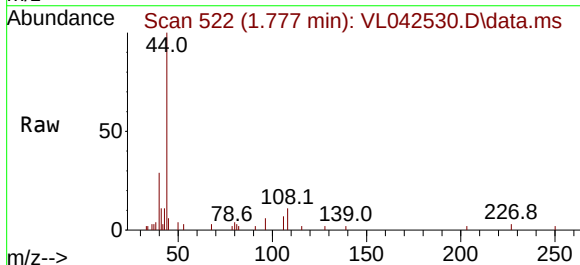
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

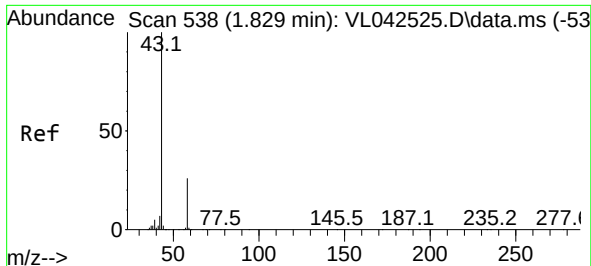
Tgt Ion: 45 Resp: 163
Ion Ratio Lower Upper
45 100
46 39.9 14.8 59.4



#14
Bromoethene
Concen: 0.051 ppbv
RT: 1.777 min Scan# 522
Delta R.T. 0.003 min
Lab File: VL042530.D
Acq: 12 May 2025 11:49

Tgt Ion: 108 Resp: 225
Ion Ratio Lower Upper
108 100
106 124.4 87.4 131.2
79 71.6 15.1 22.7#





#15

Acetone

Concen: 0.114 ppbv

RT: 1.832 min Scan# 51

Delta R.T. 0.003 min

Lab File: VL042530.D

Acq: 12 May 2025 11:49

Instrument :

MSVOA_L

ClientSampleId :

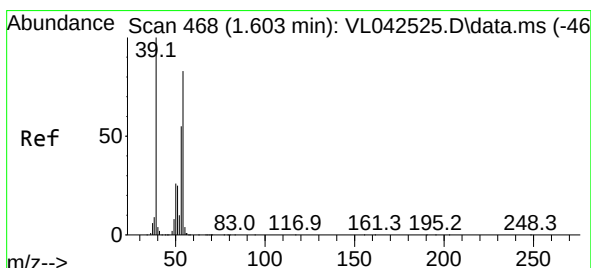
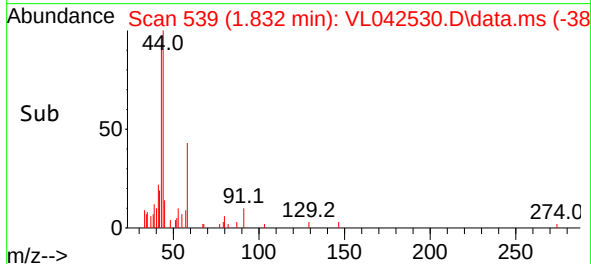
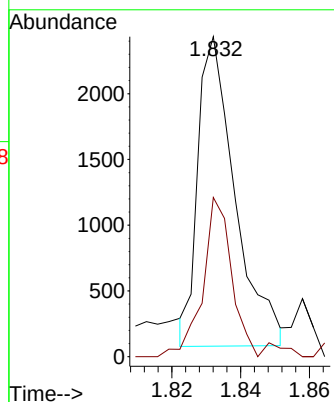
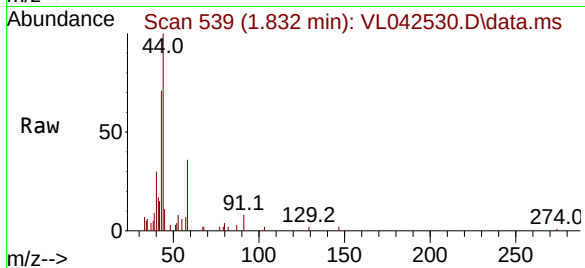
VSTDICC0.03

Tgt Ion: 43 Resp: 1762

Ion Ratio Lower Upper

43 100

58 42.3 21.3 31.9#



#16

1,3-Butadiene

Concen: 0.059 ppbv

RT: 1.599 min Scan# 467

Delta R.T. -0.004 min

Lab File: VL042530.D

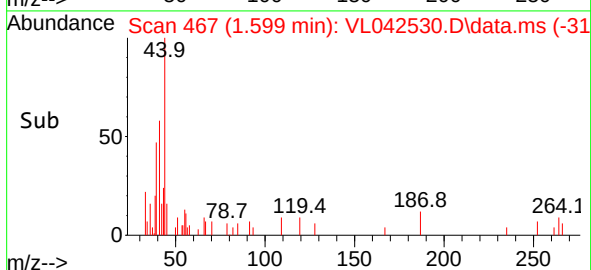
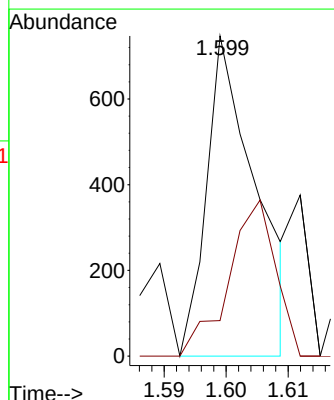
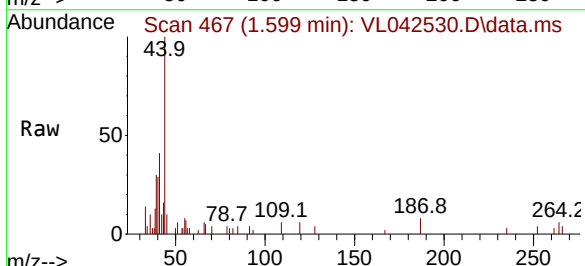
Acq: 12 May 2025 11:49

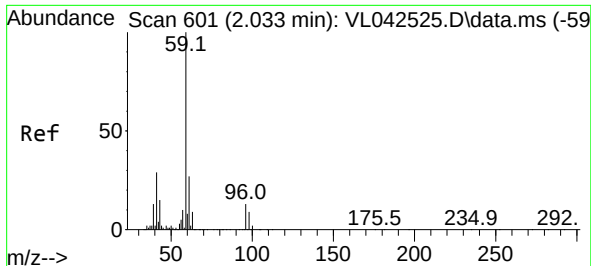
Tgt Ion: 39 Resp: 411

Ion Ratio Lower Upper

39 100

54 82.7 57.8 86.6





#17

tert-Butyl alcohol

Concen: 0.045 ppbv

RT: 2.039 min Scan# 601

Delta R.T. 0.006 min

Lab File: VL042530.D

Acq: 12 May 2025 11:49

Instrument :

MSVOA_L

ClientSampleId :

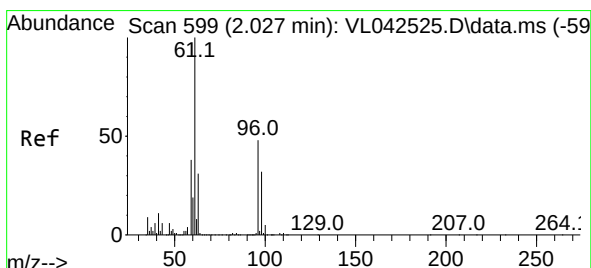
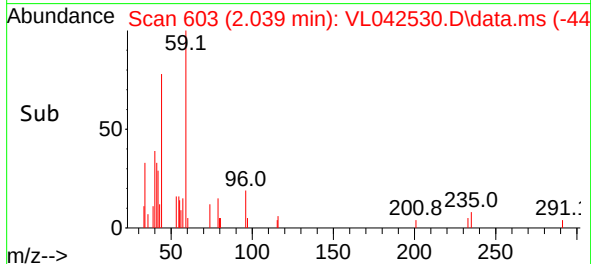
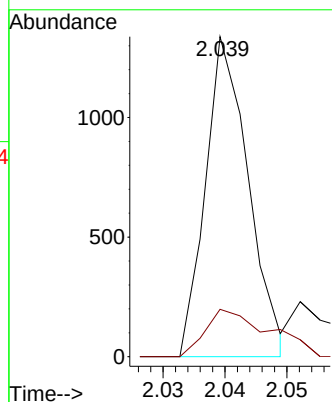
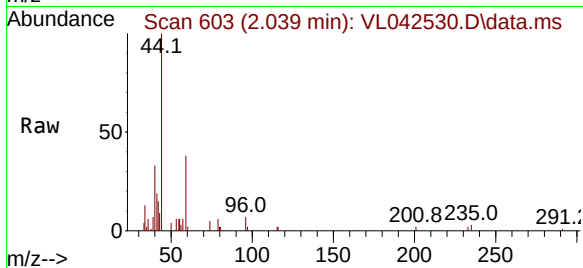
VSTDIC0.03

Tgt Ion: 59 Resp: 645

Ion Ratio Lower Upper

59 100

57 22.2 8.2 12.4#



#18

1,1-Dichloroethene

Concen: 0.061 ppbv

RT: 2.026 min Scan# 599

Delta R.T. -0.000 min

Lab File: VL042530.D

Acq: 12 May 2025 11:49

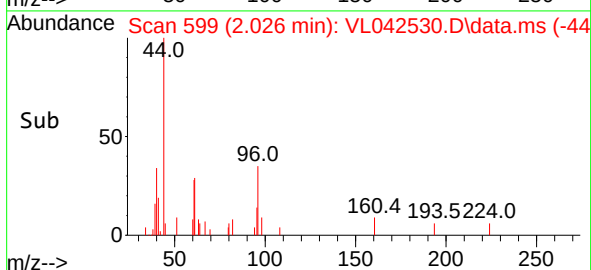
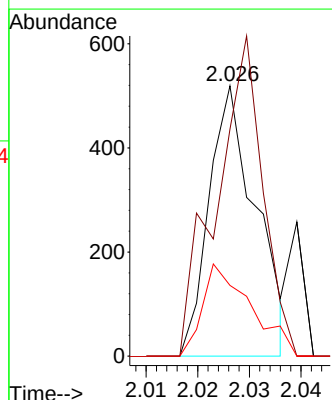
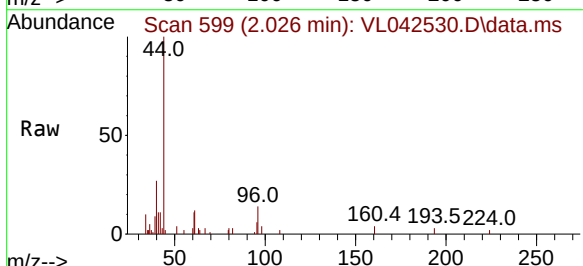
Tgt Ion: 96 Resp: 327

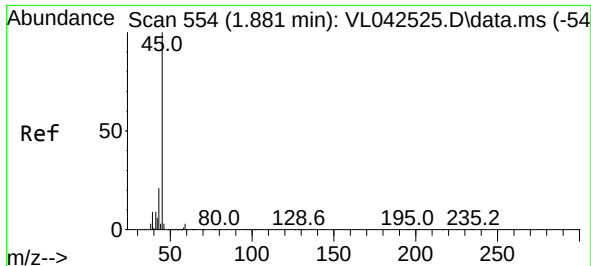
Ion Ratio Lower Upper

96 100

61 84.0 165.0 247.4#

98 26.2 52.6 79.0#

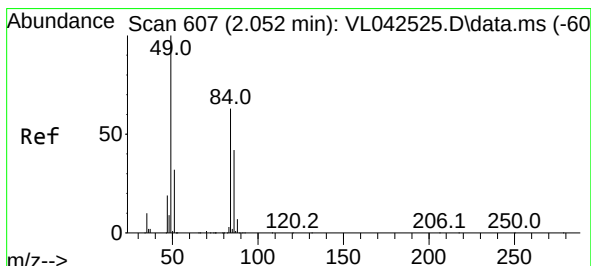
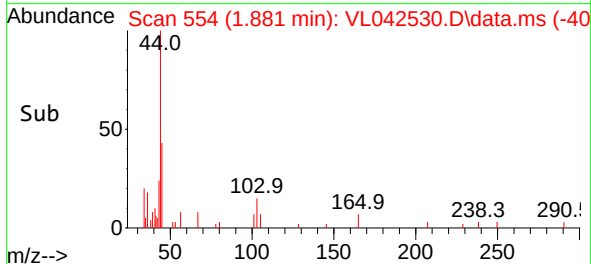
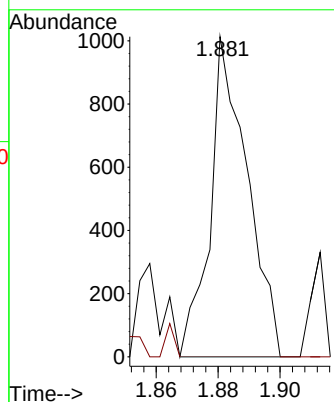
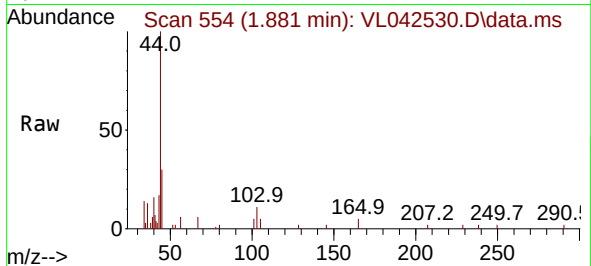




#19
Isopropyl Alcohol
Concen: 0.100 ppbv
RT: 1.881 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL042530.D
Acq: 12 May 2025 11:49

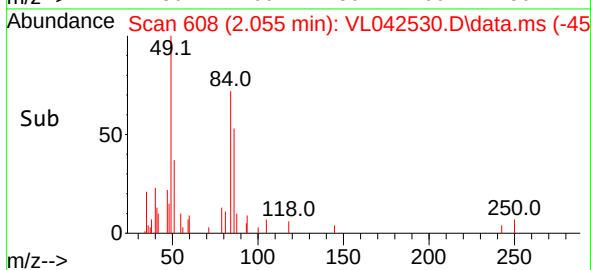
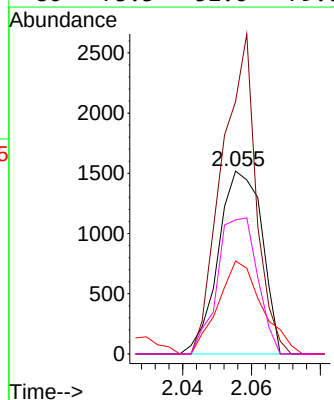
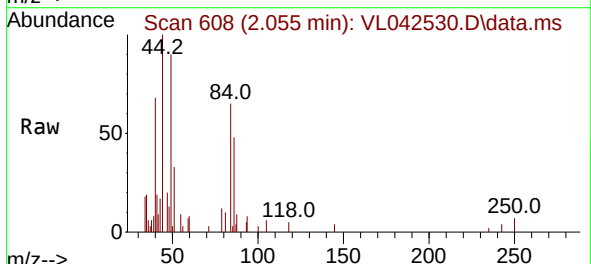
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

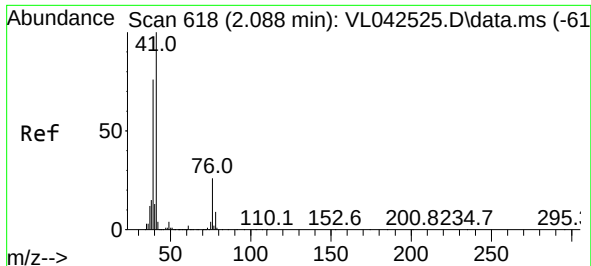
Tgt Ion: 45 Resp: 840
Ion Ratio Lower Upper
45 100
58 0.0 1.5 2.3#



#20
Methylene Chloride
Concen: 0.248 ppbv
RT: 2.055 min Scan# 608
Delta R.T. 0.003 min
Lab File: VL042530.D
Acq: 12 May 2025 11:49

Tgt Ion: 84 Resp: 1336
Ion Ratio Lower Upper
84 100
49 138.0 128.2 192.4
51 50.9 41.7 62.5
86 73.3 52.6 79.0





#21

Allyl Chloride

Concen: 0.033 ppbv

RT: 2.094 min Scan# 61

Delta R.T. 0.006 min

Lab File: VL042530.D

Acq: 12 May 2025 11:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

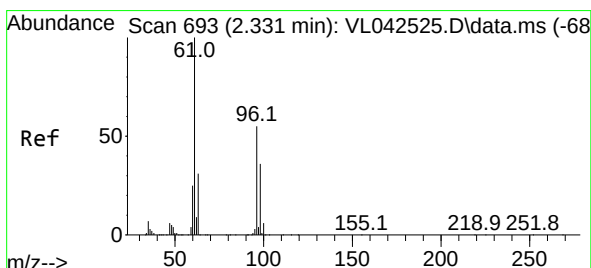
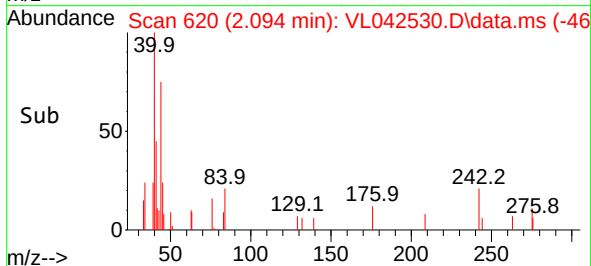
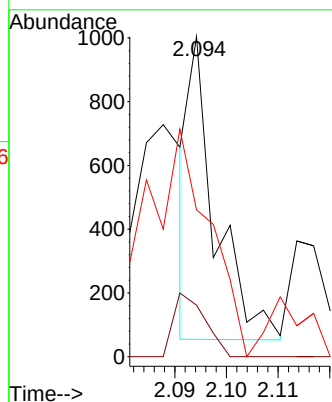
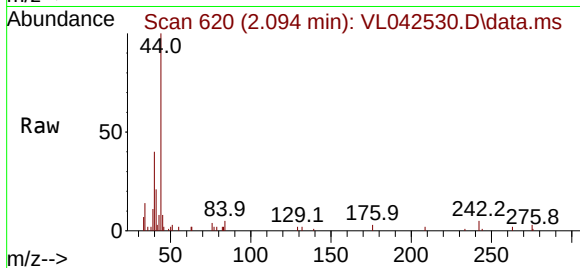
Tgt Ion: 41 Resp: 335

Ion Ratio Lower Upper

41 100

76 25.4 22.0 33.0

39 326.9 59.5 89.3#



#22

trans-1,2-Dichloroethene

Concen: 0.057 ppbv

RT: 2.340 min Scan# 696

Delta R.T. 0.009 min

Lab File: VL042530.D

Acq: 12 May 2025 11:49

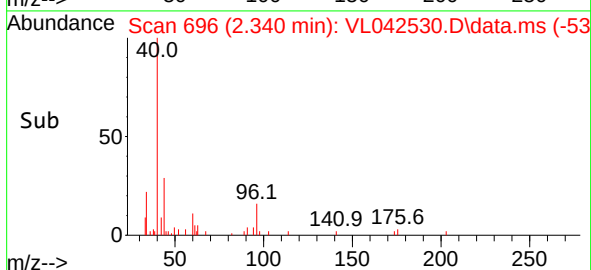
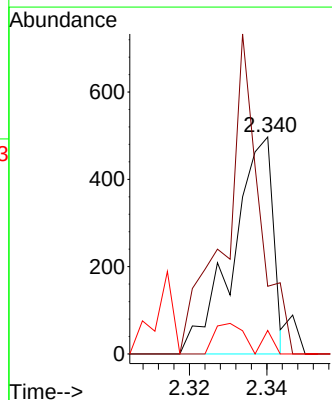
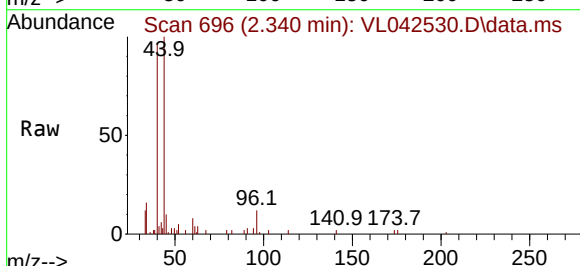
Tgt Ion: 96 Resp: 358

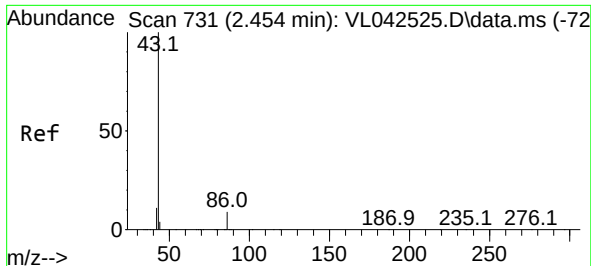
Ion Ratio Lower Upper

96 100

61 31.2 145.9 218.9#

98 10.9 52.2 78.4#

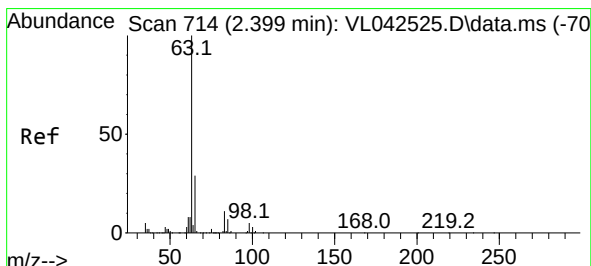
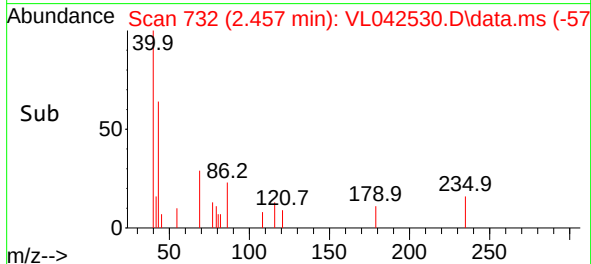
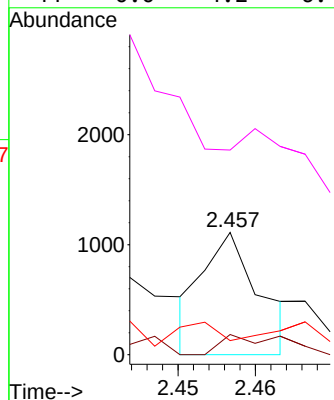
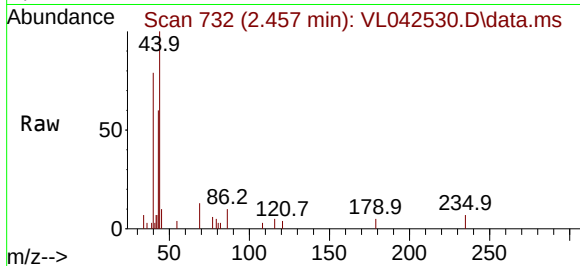




#23
 Vinyl Acetate
 Concen: 0.035 ppbv
 RT: 2.457 min Scan# 715
 Delta R.T. 0.003 min
 Lab File: VL042530.D
 Acq: 12 May 2025 11:49

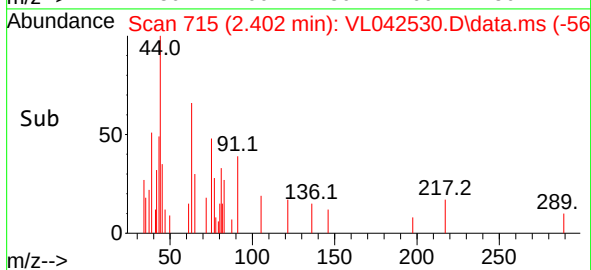
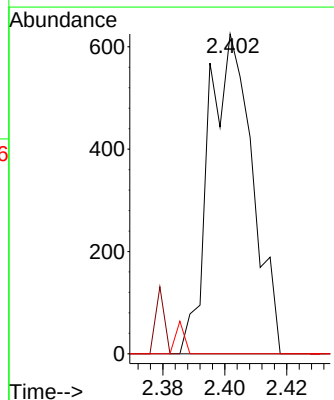
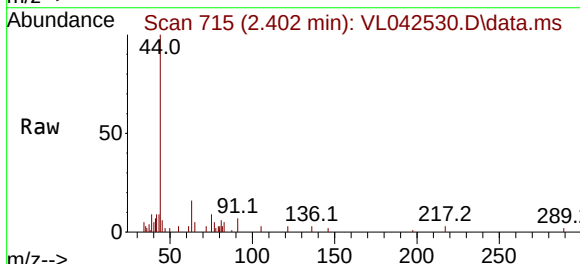
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.03

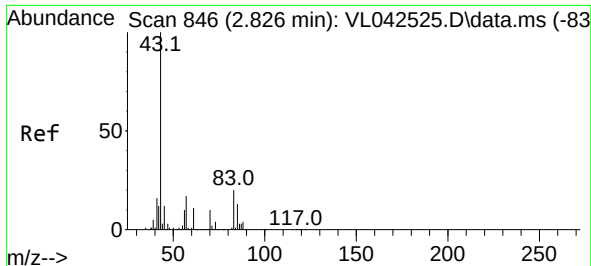
Tgt Ion:	43	Resp:	565
Ion	Ratio	Lower	Upper
43	100		
86	29.1	6.8	10.2#
42	0.0	8.8	13.2#
44	0.0	4.2	6.4#



#24
 1,1-Dichloroethane
 Concen: 0.050 ppbv
 RT: 2.402 min Scan# 715
 Delta R.T. 0.003 min
 Lab File: VL042530.D
 Acq: 12 May 2025 11:49

Tgt Ion:	63	Resp:	608
Ion	Ratio	Lower	Upper
63	100		
98	0.0	2.6	8.0#
100	0.0	1.4	4.2#





#25

Ethyl Acetate

Concen: 0.004 ppbv

RT: 2.826 min Scan# 846

Delta R.T. -0.000 min

Lab File: VL042530.D

Acq: 12 May 2025 11:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

Tgt Ion: 43 Resp: 120

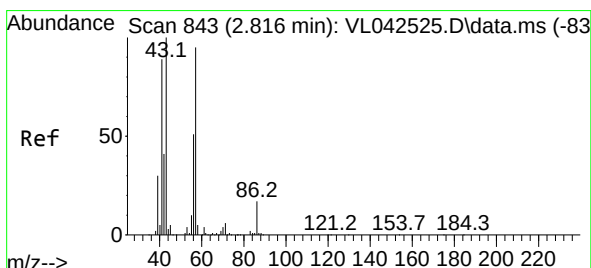
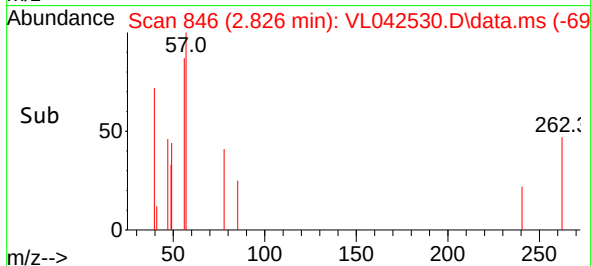
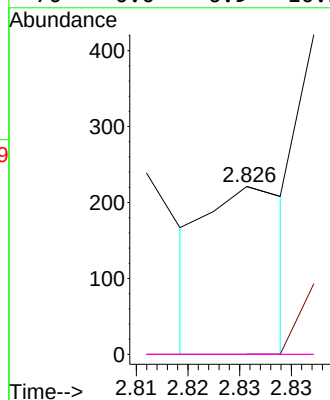
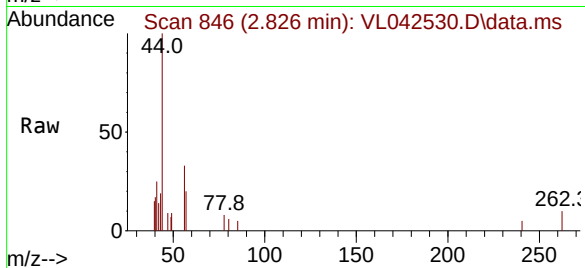
Ion Ratio Lower Upper

43 100

45 0.0 7.9 11.9#

61 0.0 7.1 10.7#

70 0.0 6.9 10.3#



#26

Hexane

Concen: 0.011 ppbv

RT: 2.819 min Scan# 844

Delta R.T. 0.003 min

Lab File: VL042530.D

Acq: 12 May 2025 11:49

Tgt Ion: 57 Resp: 126

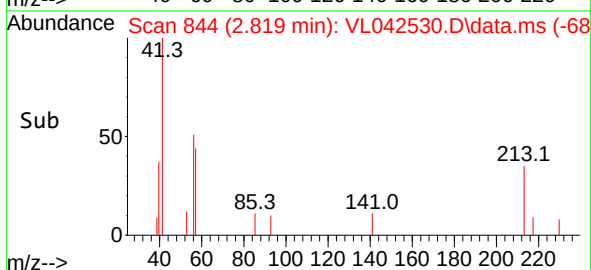
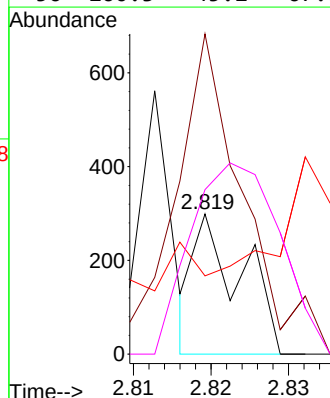
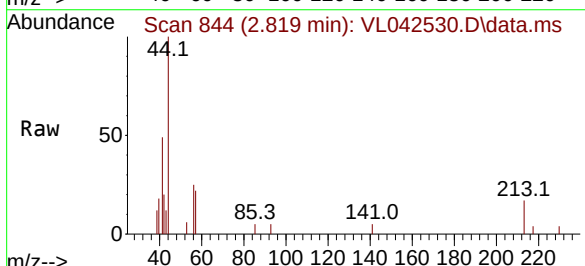
Ion Ratio Lower Upper

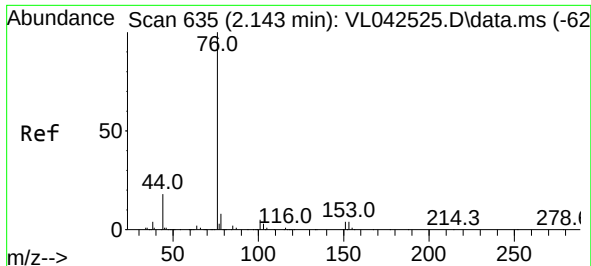
57 100

41 331.7 76.1 114.1#

43 779.4 188.9 283.3#

56 260.3 45.2 67.8#

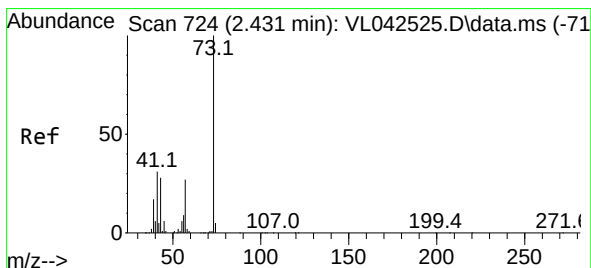
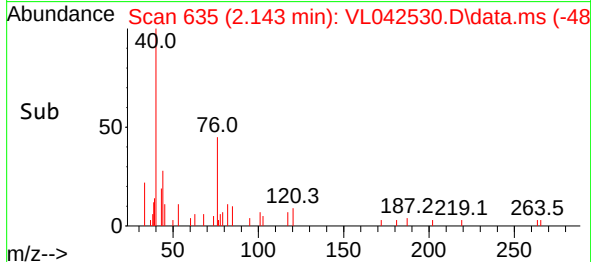
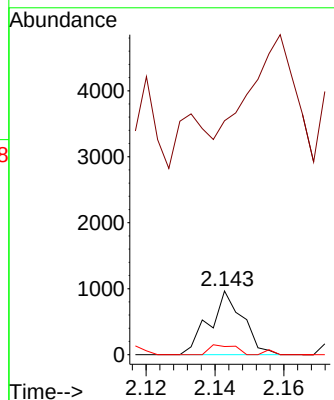
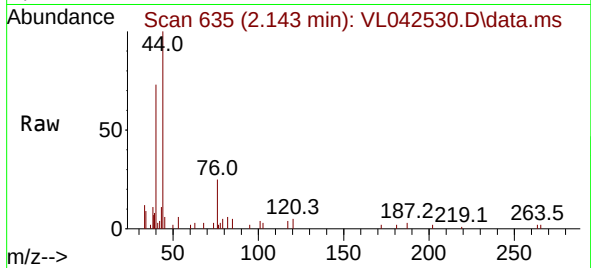




#27
Carbon Disulfide
Concen: 0.045 ppbv
RT: 2.143 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL042530.D
Acq: 12 May 2025 11:49

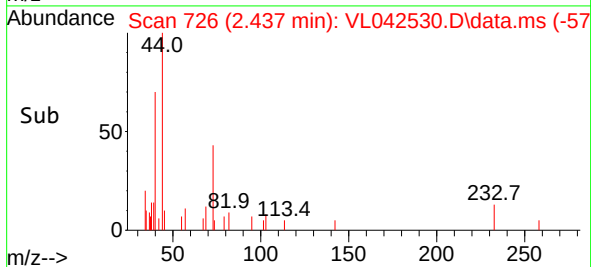
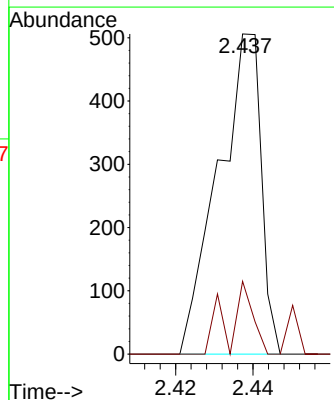
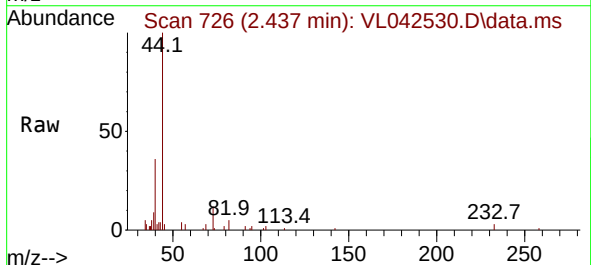
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

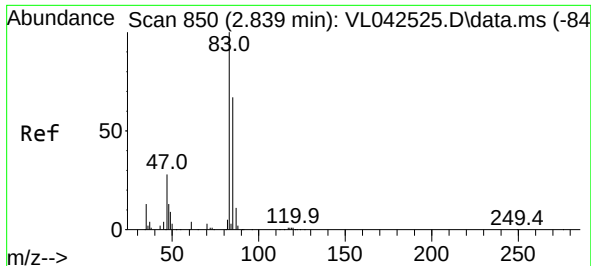
Tgt Ion: 76 Resp: 651
Ion Ratio Lower Upper
76 100
44 653.3 17.1 25.7#
78 19.8 8.6 12.8#



#28
Methyl tert-Butyl Ether
Concen: 0.063 ppbv
RT: 2.437 min Scan# 726
Delta R.T. 0.006 min
Lab File: VL042530.D
Acq: 12 May 2025 11:49

Tgt Ion: 73 Resp: 389
Ion Ratio Lower Upper
73 100
57 13.1 20.3 30.5#





#29

Chloroform

Concen: 0.026 ppbv

RT: 2.842 min Scan# 81

Delta R.T. 0.003 min

Lab File: VL042530.D

Acq: 12 May 2025 11:49

Instrument :

MSVOA_L

ClientSampleId :

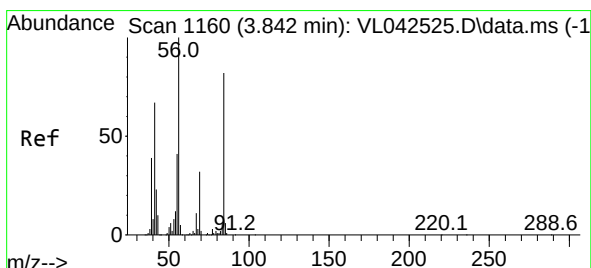
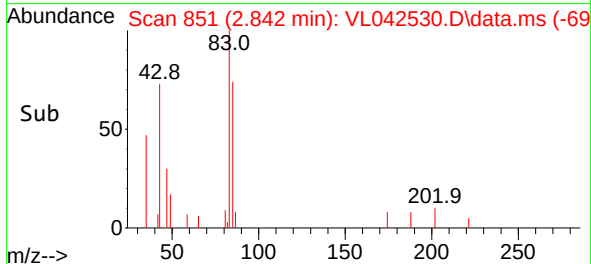
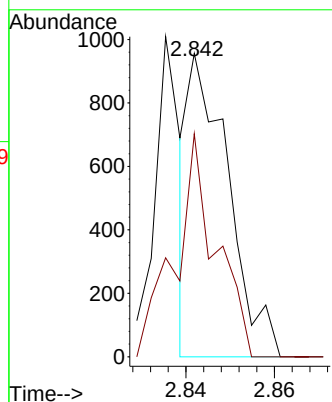
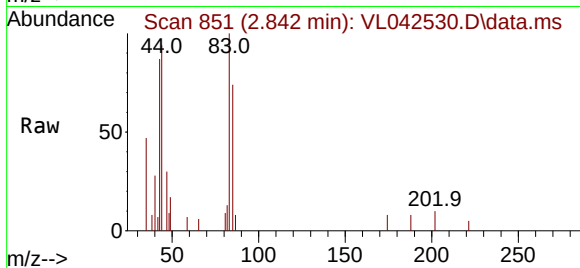
VSTDIC0.03

Tgt Ion: 83 Resp: 596

Ion Ratio Lower Upper

83 100

85 73.5 53.5 80.3



#30

Cyclohexane

Concen: 0.005 ppbv

RT: 3.748 min Scan# 1131

Delta R.T. -0.094 min

Lab File: VL042530.D

Acq: 12 May 2025 11:49

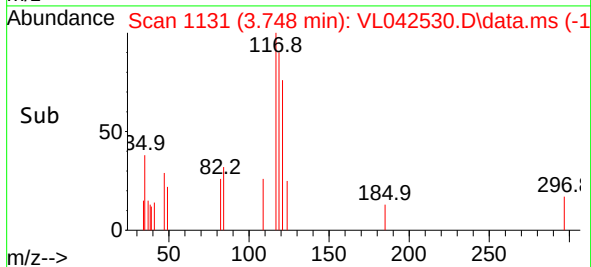
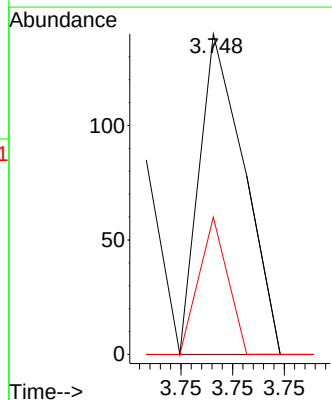
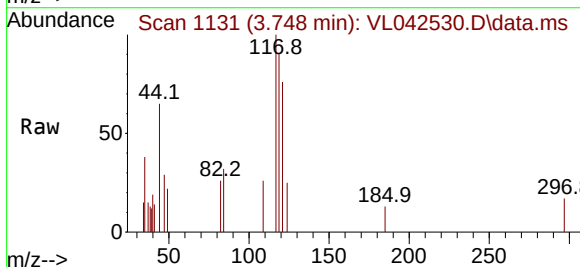
Tgt Ion: 84 Resp: 42

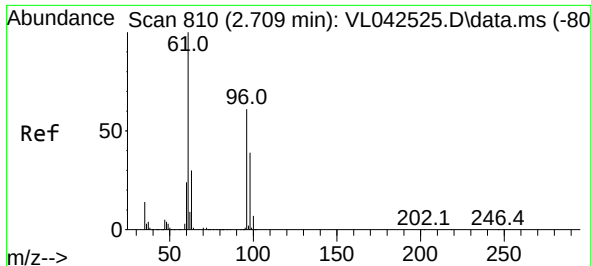
Ion Ratio Lower Upper

84 100

56 0.0 97.1 145.7#

41 116.7 66.6 99.8#

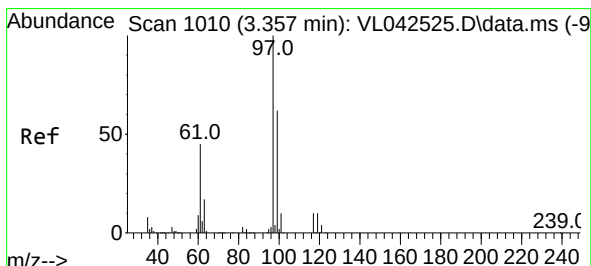
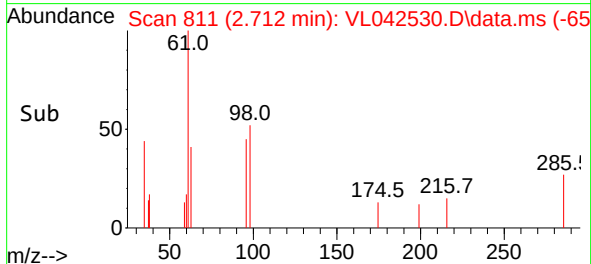
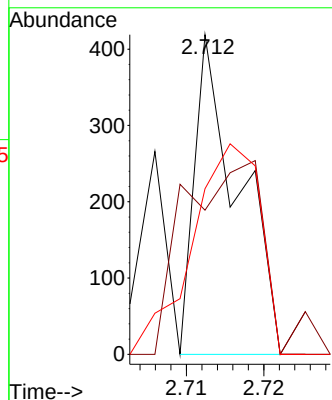
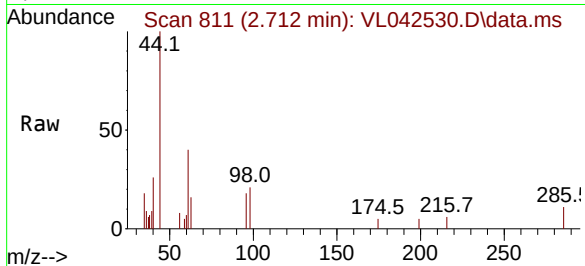




#31
 cis-1,2-Dichloroethene
 Concen: 0.013 ppbv
 RT: 2.712 min Scan# 81
 Delta R.T. 0.003 min
 Lab File: VL042530.D
 Acq: 12 May 2025 11:49

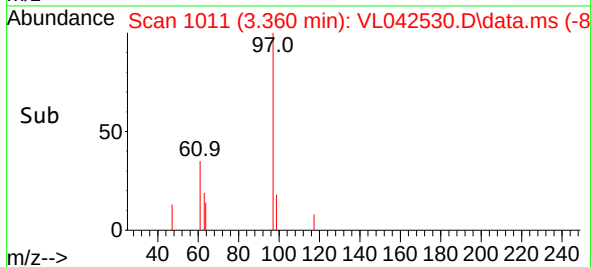
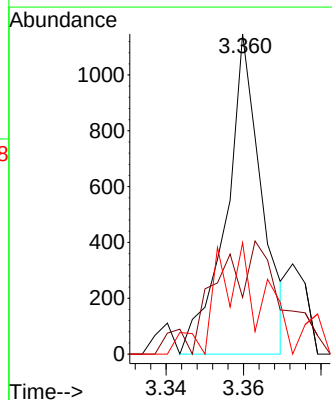
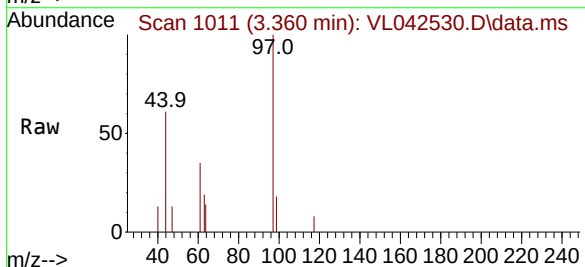
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

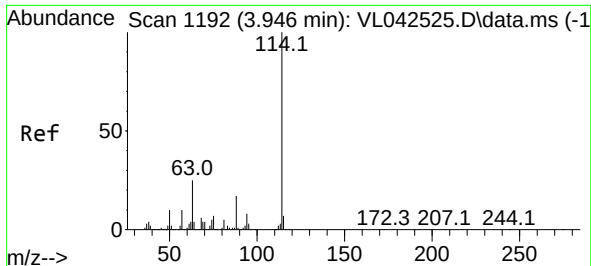
Tgt Ion: 61 Resp: 166
 Ion Ratio Lower Upper
 61 100
 96 45.1 48.9 73.3#
 98 51.8 31.4 47.2#



#32
 1,1,1-Trichloroethane
 Concen: 0.031 ppbv
 RT: 3.360 min Scan# 1011
 Delta R.T. 0.003 min
 Lab File: VL042530.D
 Acq: 12 May 2025 11:49

Tgt Ion: 97 Resp: 730
 Ion Ratio Lower Upper
 97 100
 99 66.0 50.1 75.1
 61 50.1 38.2 57.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.949 min Scan# 1193

Delta R.T. 0.003 min

Lab File: VL042530.D

Acq: 12 May 2025 11:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

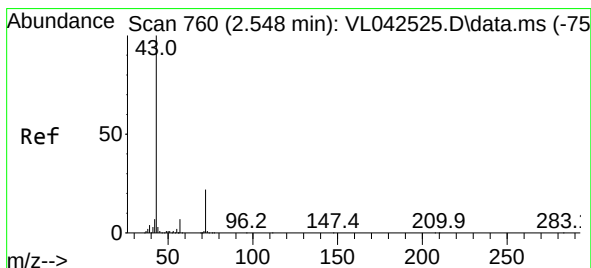
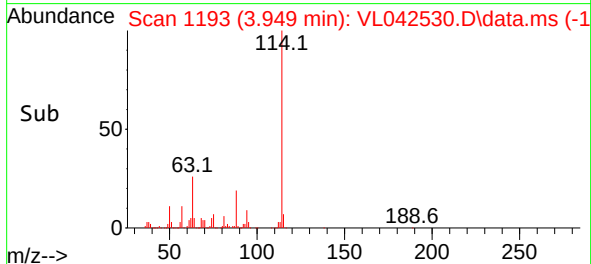
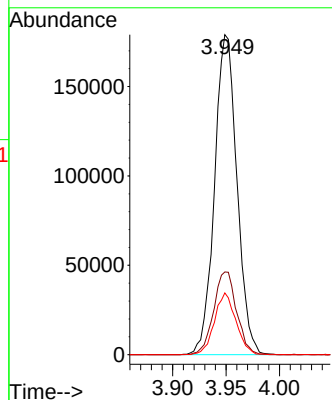
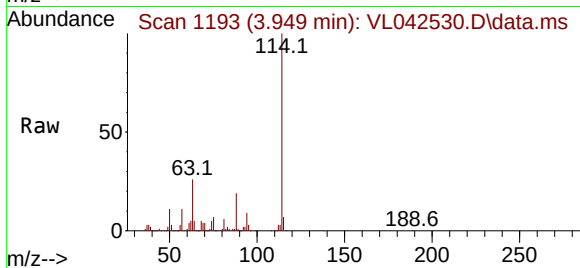
Tgt Ion:114 Resp: 261294

Ion Ratio Lower Upper

114 100

63 26.5 20.4 30.6

88 18.6 14.5 21.7



#34

2-Butanone

Concen: 0.026 ppbv

RT: 2.554 min Scan# 762

Delta R.T. 0.006 min

Lab File: VL042530.D

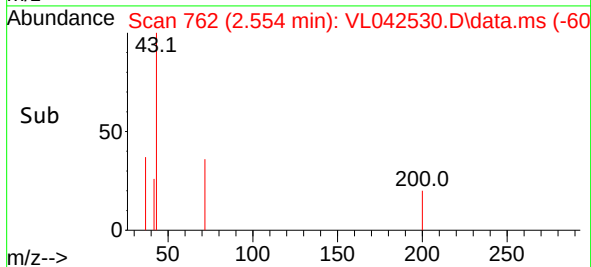
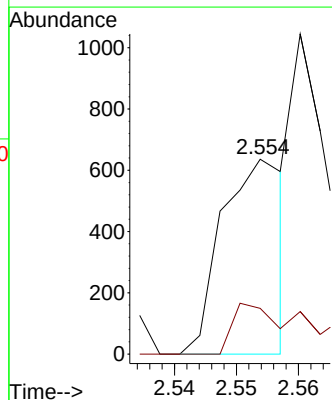
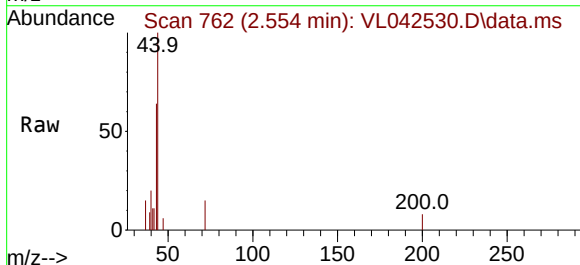
Acq: 12 May 2025 11:49

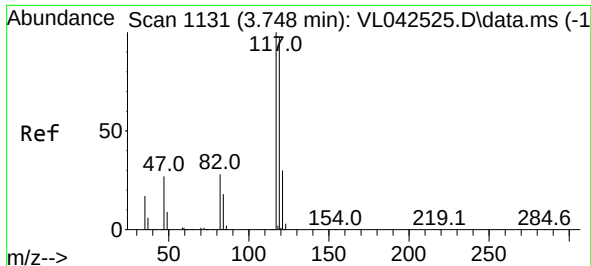
Tgt Ion: 43 Resp: 446

Ion Ratio Lower Upper

43 100

72 33.9 18.7 28.1#

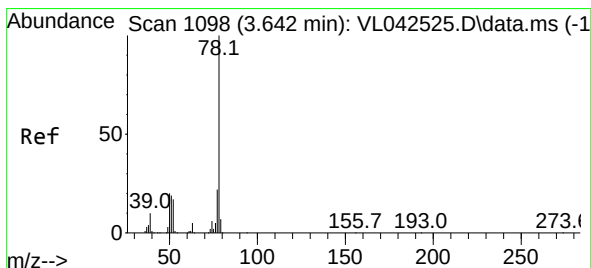
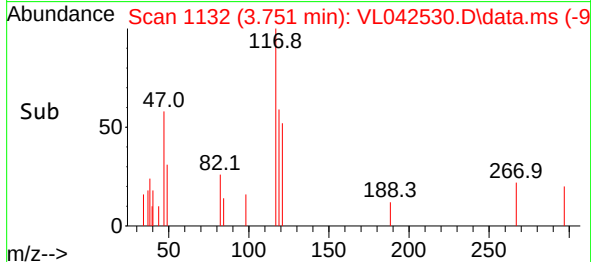
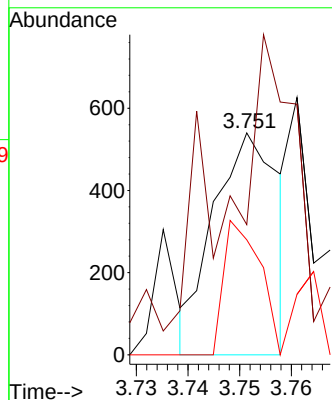
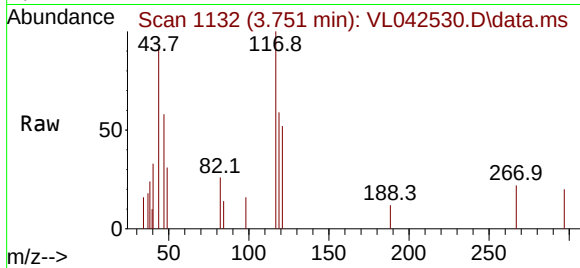




#35
Carbon Tetrachloride
Concen: 0.020 ppbv
RT: 3.751 min Scan# 1131
Delta R.T. 0.003 min
Lab File: VL042530.D
Acq: 12 May 2025 11:49

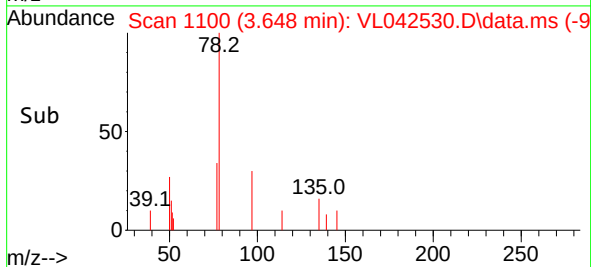
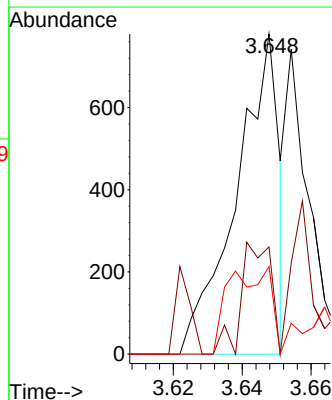
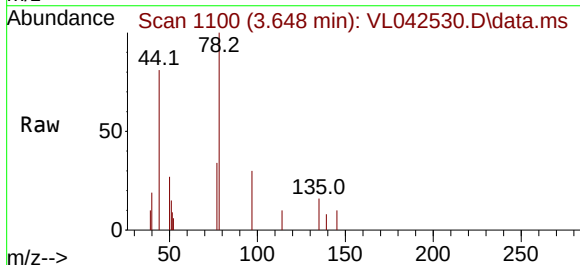
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

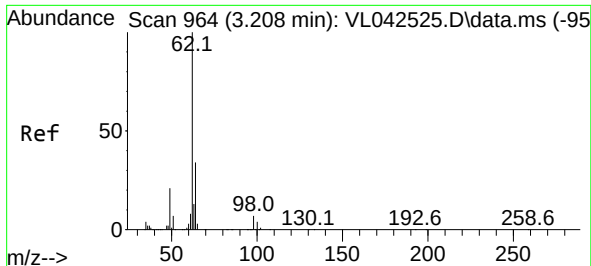
Tgt Ion:117 Resp: 468
Ion Ratio Lower Upper
117 100
119 49.3 77.7 116.5#
121 65.7 24.0 36.0#



#36
Benzene
Concen: 0.029 ppbv
RT: 3.648 min Scan# 1100
Delta R.T. 0.006 min
Lab File: VL042530.D
Acq: 12 May 2025 11:49

Tgt Ion: 78 Resp: 671
Ion Ratio Lower Upper
78 100
77 33.5 17.4 26.2#
50 27.3 16.3 24.5#





#37

1,2-Dichloroethane

Concen: 0.021 ppbv

RT: 3.208 min Scan# 9

Delta R.T. -0.000 min

Lab File: VL042530.D

Acq: 12 May 2025 11:49

Instrument :

MSVOA_L

ClientSampleId :

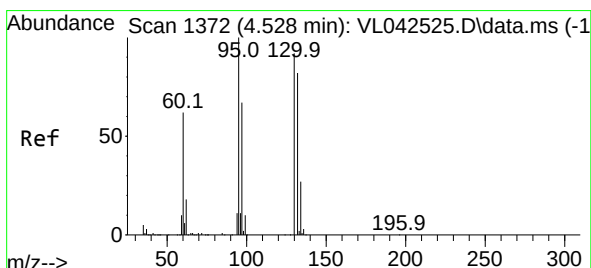
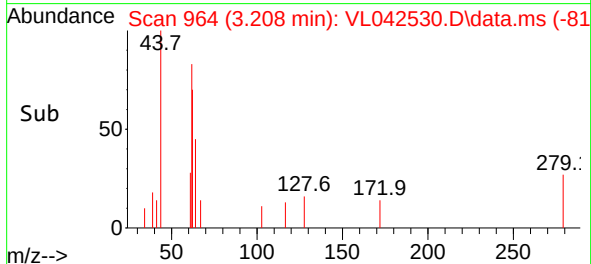
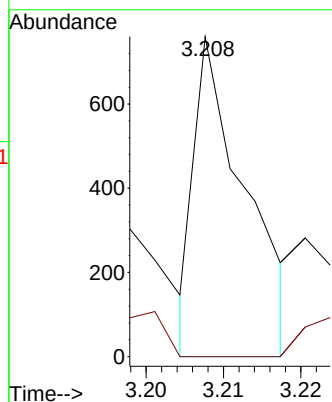
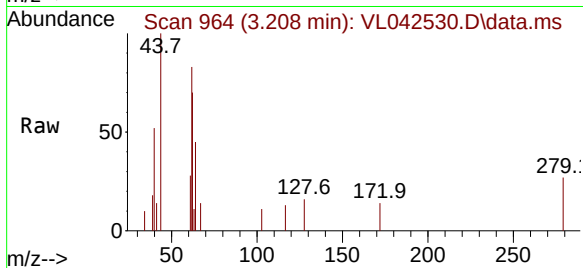
VSTDICC0.03

Tgt Ion: 62 Resp: 349

Ion Ratio Lower Upper

62 100

98 0.0 5.0 7.4#



#38

Trichloroethene

Concen: 0.033 ppbv

RT: 4.531 min Scan# 1373

Delta R.T. 0.003 min

Lab File: VL042530.D

Acq: 12 May 2025 11:49

Tgt Ion:130 Resp: 323

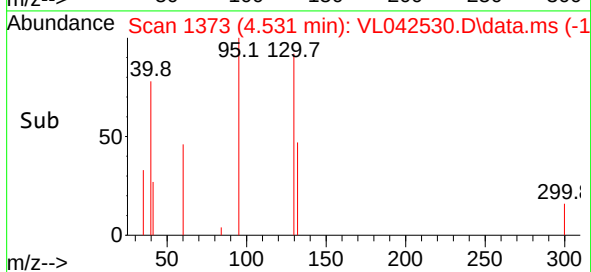
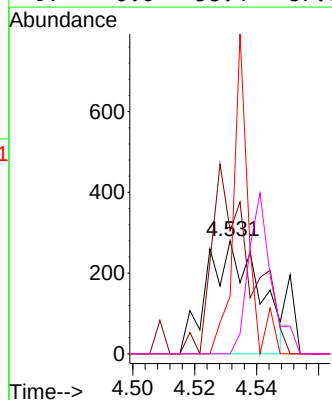
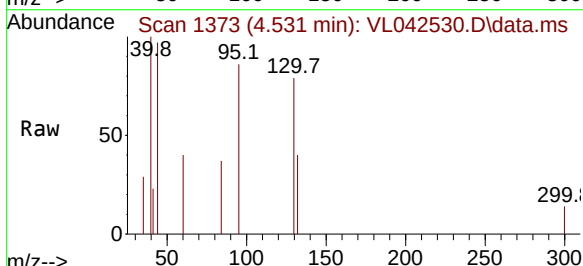
Ion Ratio Lower Upper

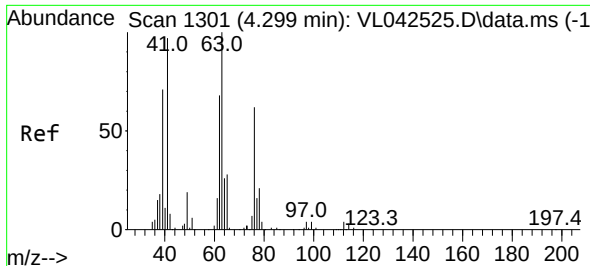
130 100

95 108.9 87.0 130.4

132 50.7 71.1 106.7#

97 0.0 58.4 87.6#





#39

1,2-Dichloropropane

Concen: 7.959 ppbv

RT: 3.949 min Scan# 1193

Delta R.T. -0.350 min

Lab File: VL042530.D

Acq: 12 May 2025 11:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

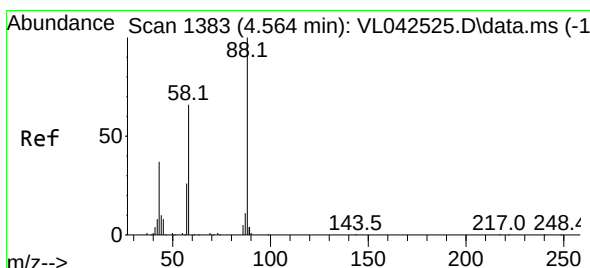
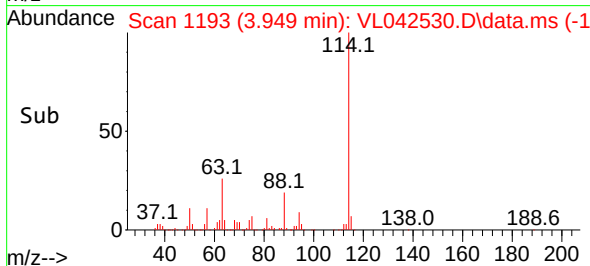
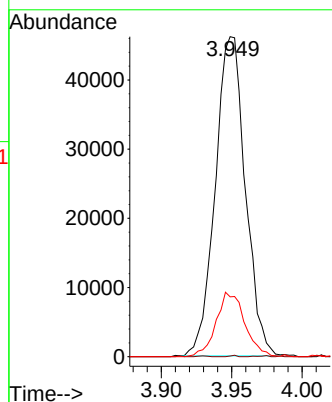
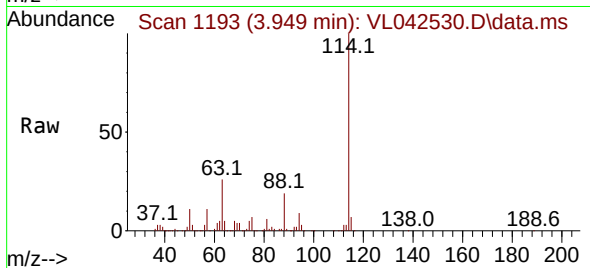
Tgt Ion: 63 Resp: 68604

Ion Ratio Lower Upper

63 100

41 0.0 77.5 116.3#

62 18.6 54.6 82.0#



#40

1,4-Dioxane

Concen: 0.010 ppbv

RT: 4.554 min Scan# 1380

Delta R.T. -0.010 min

Lab File: VL042530.D

Acq: 12 May 2025 11:49

Tgt Ion: 88 Resp: 36

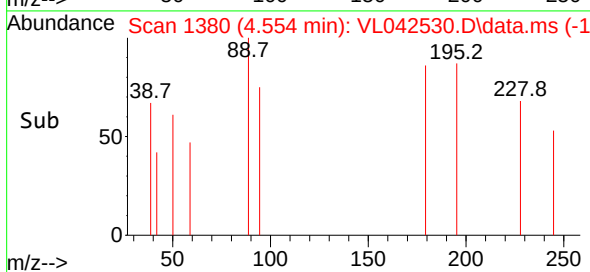
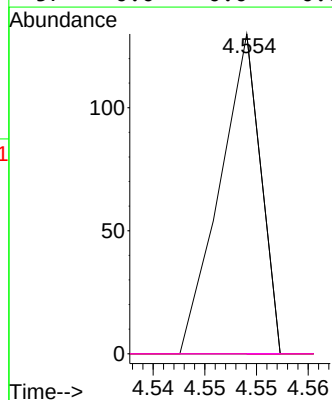
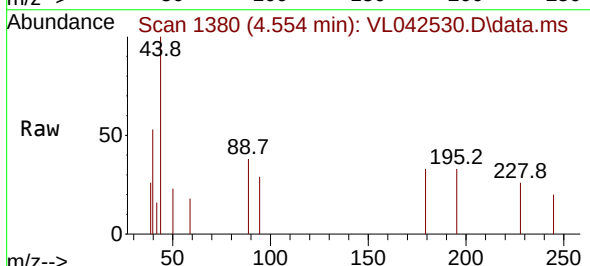
Ion Ratio Lower Upper

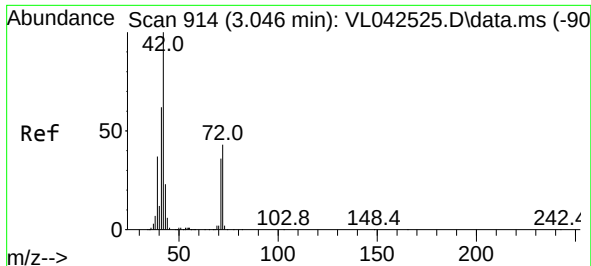
88 100

58 0.0 58.2 87.2#

43 86.1 27.9 41.9#

57 0.0 0.0 0.0





#41

Tetrahydrofuran

Concen: 0.003 ppbv

RT: 3.052 min Scan# 914

Delta R.T. 0.006 min

Lab File: VL042530.D

Acq: 12 May 2025 11:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

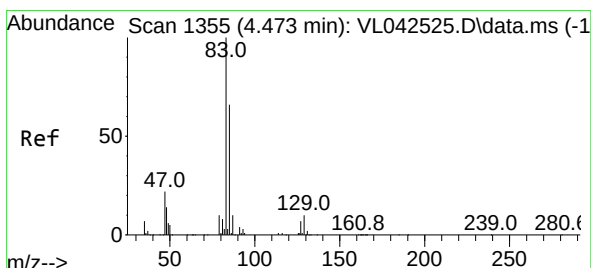
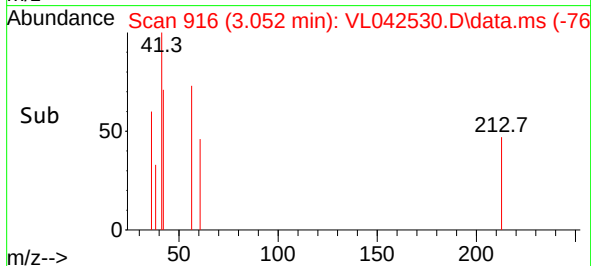
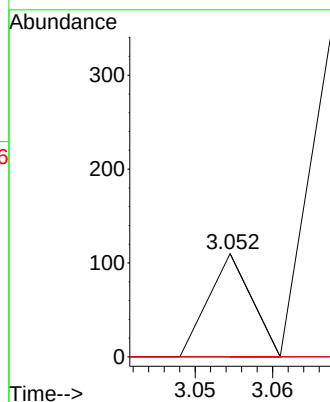
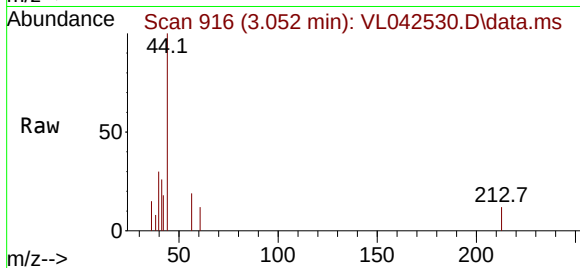
Tgt Ion: 42 Resp: 21

Ion Ratio Lower Upper

42 100

72 0.0 32.7 49.1#

71 0.0 30.4 45.6#



#42

Bromodichloromethane

Concen: 0.009 ppbv

RT: 4.473 min Scan# 1355

Delta R.T. -0.000 min

Lab File: VL042530.D

Acq: 12 May 2025 11:49

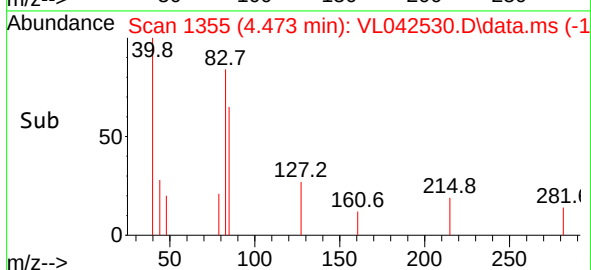
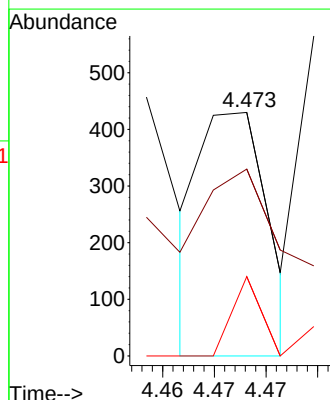
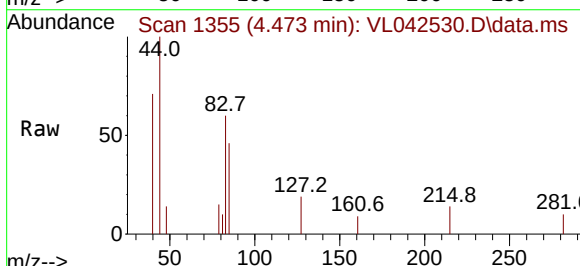
Tgt Ion: 83 Resp: 194

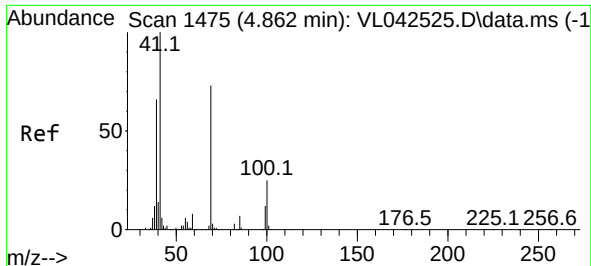
Ion Ratio Lower Upper

83 100

85 51.9 52.6 79.0#

127 49.5 6.0 9.0#





#43

Methyl Methacrylate

Concen: 0.002 ppbv

RT: 4.865 min Scan# 1475

Delta R.T. 0.003 min

Lab File: VL042530.D

Acq: 12 May 2025 11:49

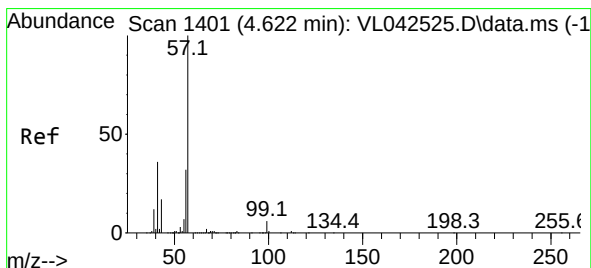
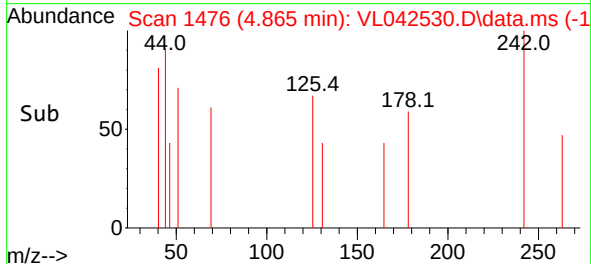
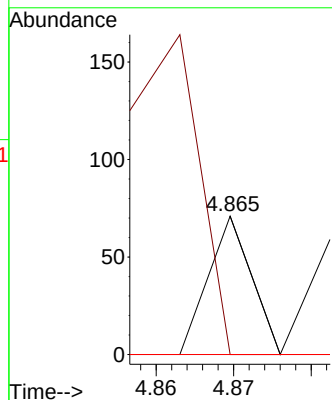
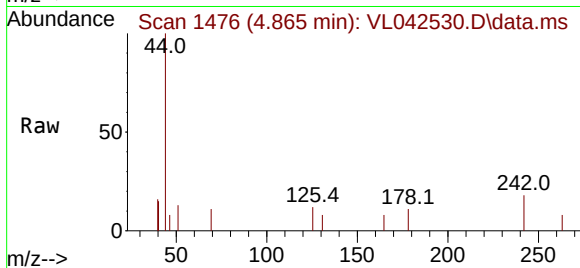
Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

Tgt Ion:	69	Resp:	14
Ion	Ratio	Lower	Upper
69	100		
41	0.0	119.9	179.9#
100	0.0	28.4	42.6#



#44

2,2,4-Trimethylpentane

Concen: 0.013 ppbv

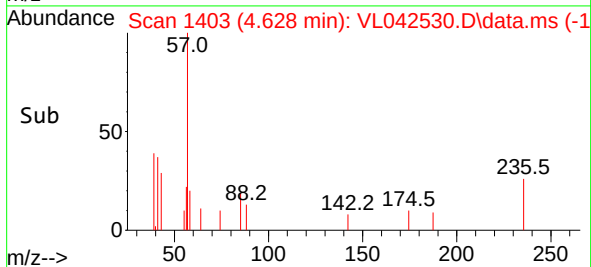
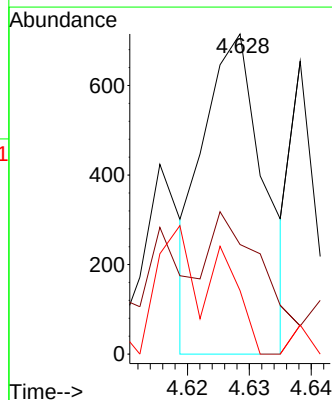
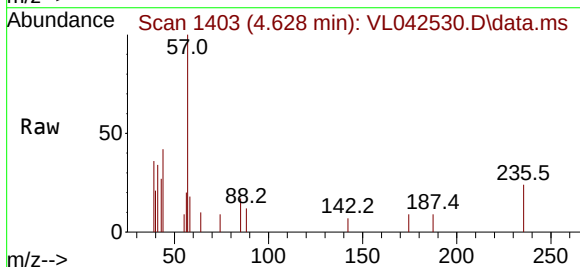
RT: 4.628 min Scan# 1403

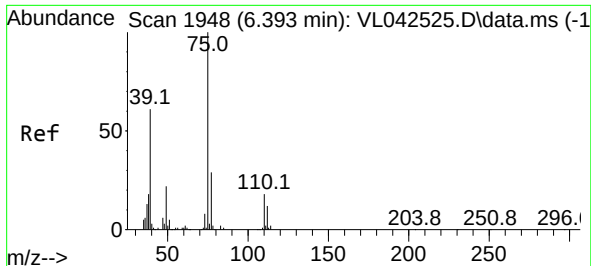
Delta R.T. 0.006 min

Lab File: VL042530.D

Acq: 12 May 2025 11:49

Tgt Ion:	57	Resp:	487
Ion	Ratio	Lower	Upper
57	100		
41	0.0	28.3	42.5#
56	0.0	25.9	38.9#

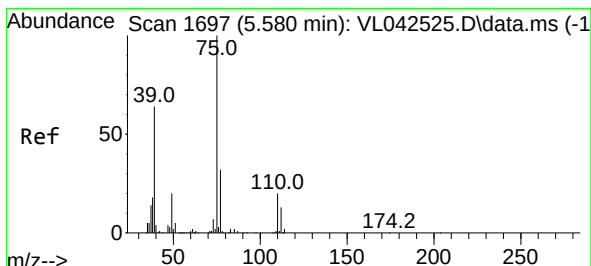
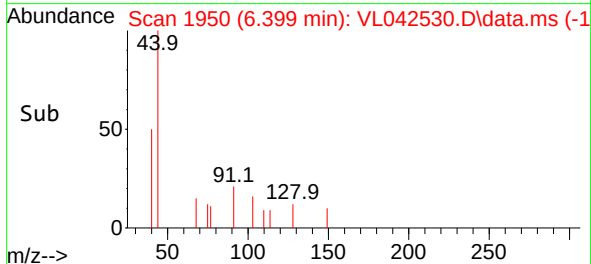
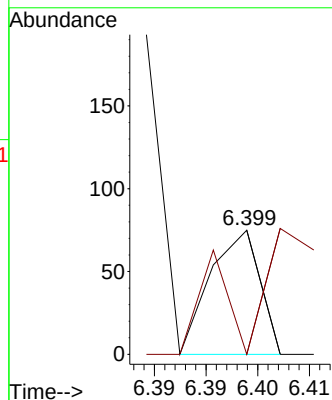
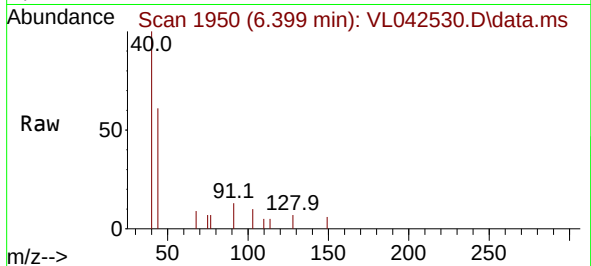




#45
 t-1,3-Dichloropropene
 Concen: 0.003 ppbv
 RT: 6.399 min Scan# 1948
 Delta R.T. 0.006 min
 Lab File: VL042530.D
 Acq: 12 May 2025 11:49

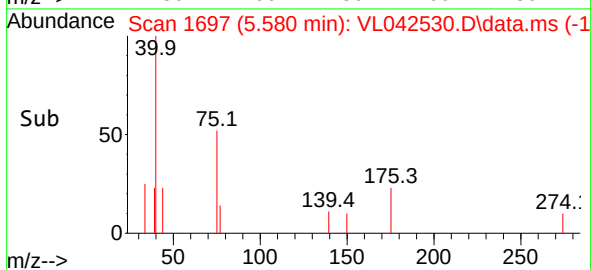
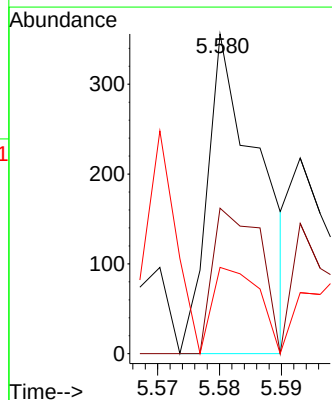
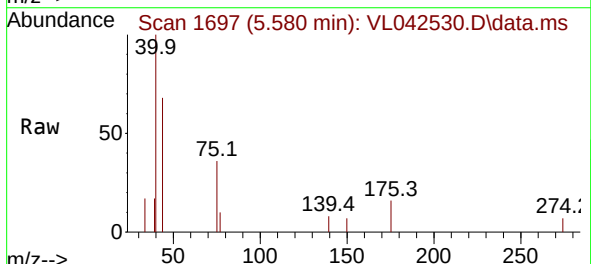
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.03

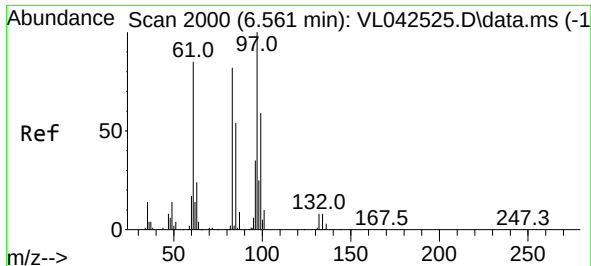
Tgt Ion: 75 Resp: 25
 Ion Ratio Lower Upper
 75 100
 77 0.0 23.3 34.9#



#46
 cis-1,3-Dichloropropene
 Concen: 0.017 ppbv
 RT: 5.580 min Scan# 1697
 Delta R.T. -0.000 min
 Lab File: VL042530.D
 Acq: 12 May 2025 11:49

Tgt Ion: 75 Resp: 207
 Ion Ratio Lower Upper
 75 100
 39 45.5 51.2 76.8#
 77 27.0 25.4 38.0

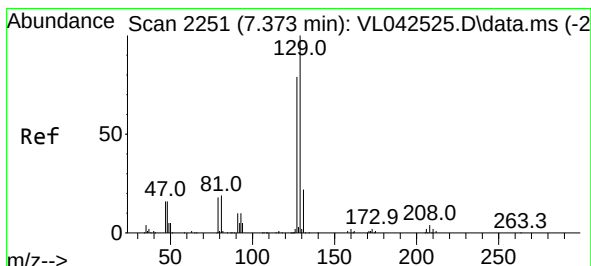
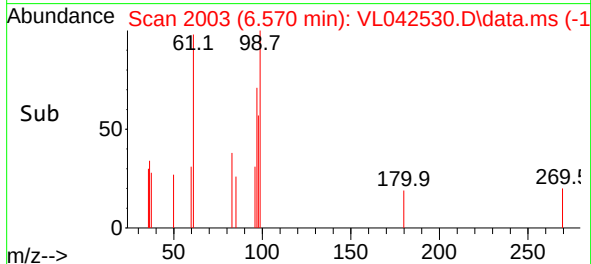
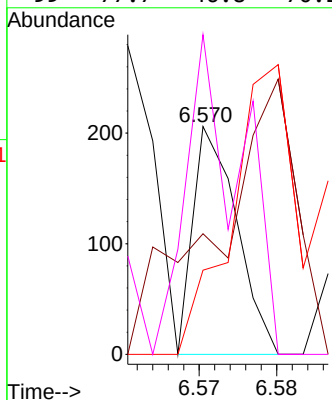
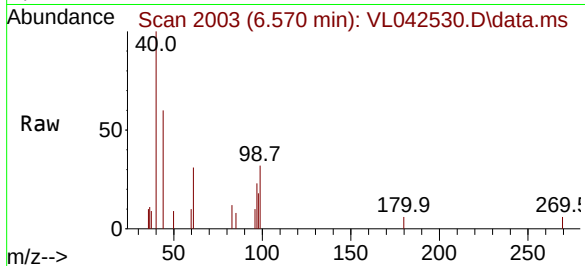




#47
1,1,2-Trichloroethane
Concen: 0.008 ppbv
RT: 6.570 min Scan# 2000
Delta R.T. 0.009 min
Lab File: VL042530.D
Acq: 12 May 2025 11:49

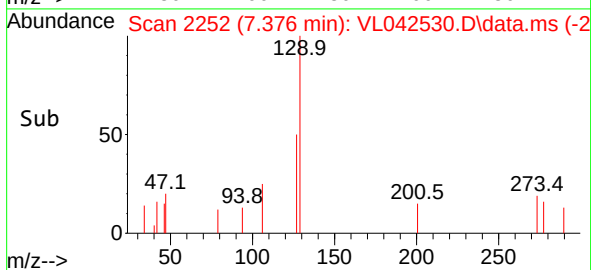
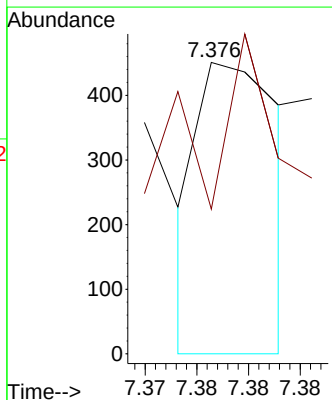
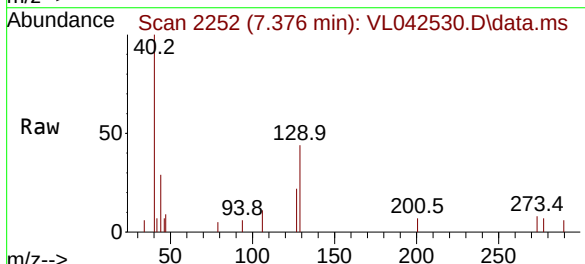
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

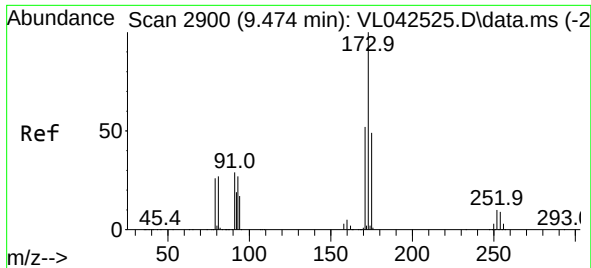
Tgt Ion: 97	Resp:	81
Ion	Ratio	Lower Upper
97	100	
83	7.0	66.0 99.0#
85	20.4	42.8 64.2#
99	77.7	46.8 70.2#



#48
Dibromochloromethane
Concen: 0.015 ppbv
RT: 7.376 min Scan# 2252
Delta R.T. 0.003 min
Lab File: VL042530.D
Acq: 12 May 2025 11:49

Tgt Ion: 129	Resp:	247
Ion	Ratio	Lower Upper
129	100	
127	232.4	39.6 118.8#

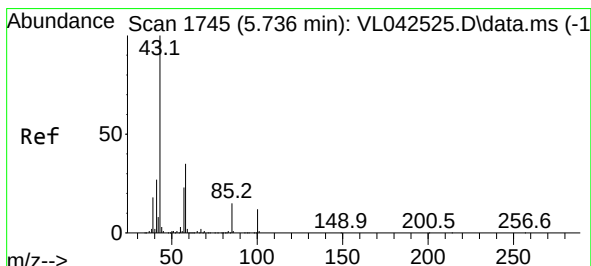
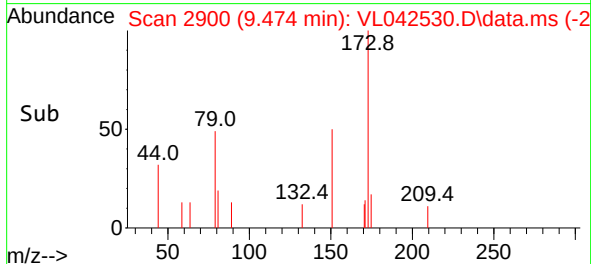
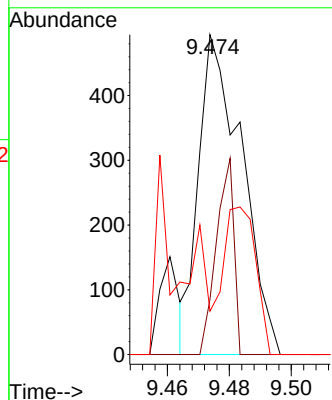
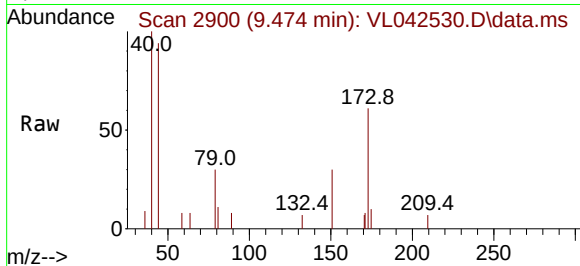




#49
Bromoform
Concen: 0.034 ppbv
RT: 9.474 min Scan# 2900
Delta R.T. -0.000 min
Lab File: VL042530.D
Acq: 12 May 2025 11:49

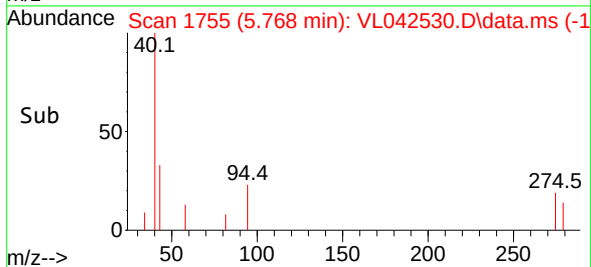
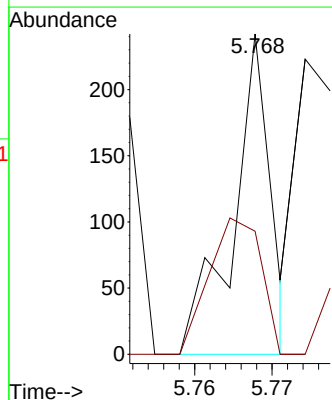
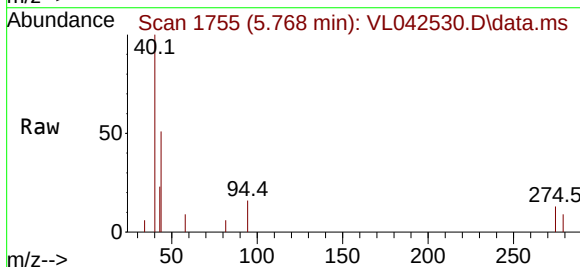
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

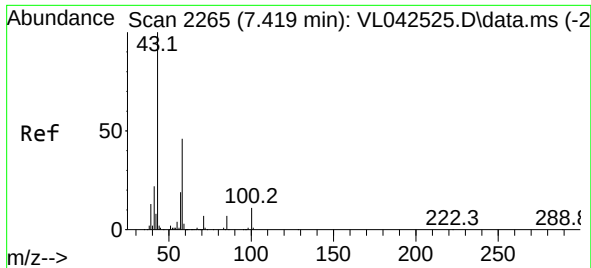
Tgt Ion:173 Resp: 477
Ion Ratio Lower Upper
173 100
175 24.9 39.1 58.7#
171 0.0 41.8 62.8#



#50
4-Methyl-2-Pentanone
Concen: 0.004 ppbv
RT: 5.768 min Scan# 1755
Delta R.T. 0.032 min
Lab File: VL042530.D
Acq: 12 May 2025 11:49

Tgt Ion: 43 Resp: 82
Ion Ratio Lower Upper
43 100
58 0.0 28.6 42.8#

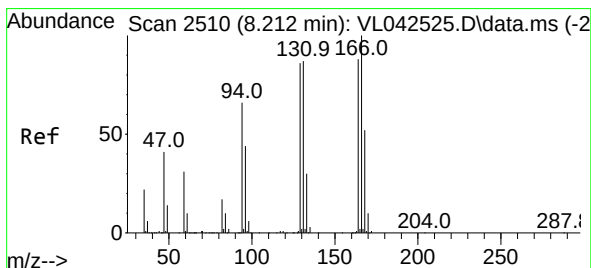
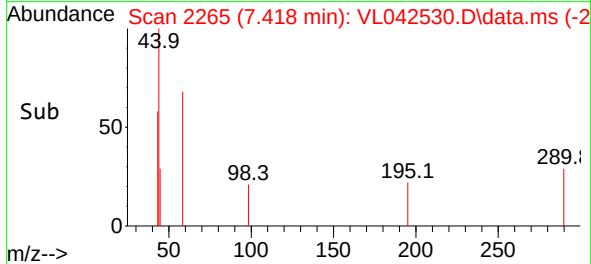
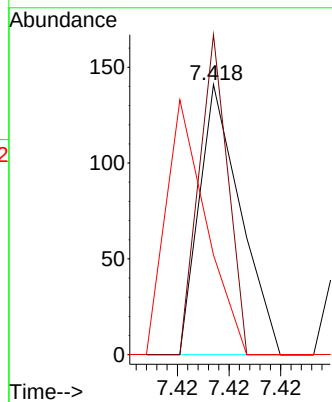
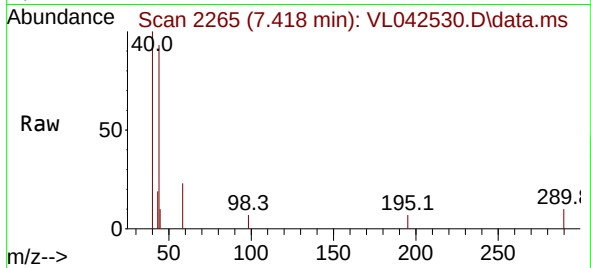




#51
2-Hexanone
Concen: 0.003 ppbv
RT: 7.418 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042530.D
Acq: 12 May 2025 11:49

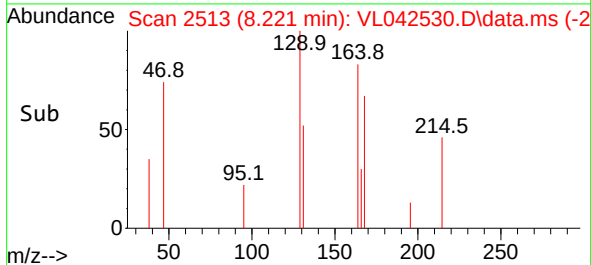
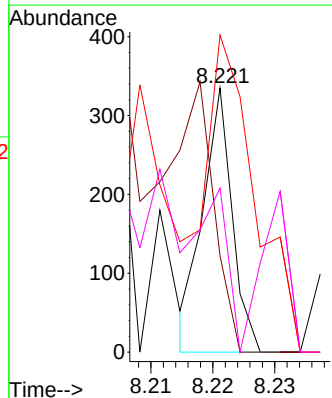
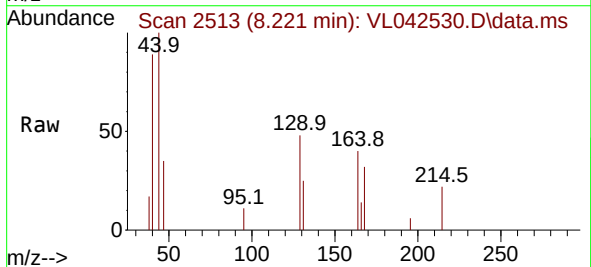
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

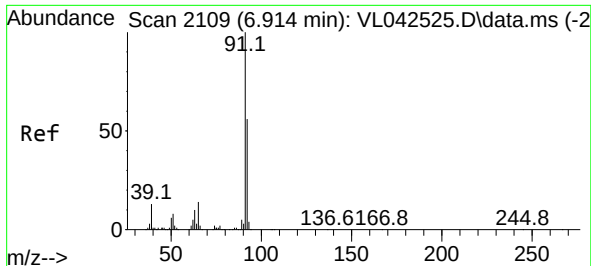
Tgt Ion: 43 Resp: 39
Ion Ratio Lower Upper
43 100
58 82.1 37.5 56.3#
98 92.3 0.9 1.3#



#52
Tetrachloroethene
Concen: 0.012 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. 0.009 min
Lab File: VL042530.D
Acq: 12 May 2025 11:49

Tgt Ion: 164 Resp: 109
Ion Ratio Lower Upper
164 100
166 36.4 91.3 136.9#
129 78.2 78.9 118.3#
131 24.5 79.6 119.4#

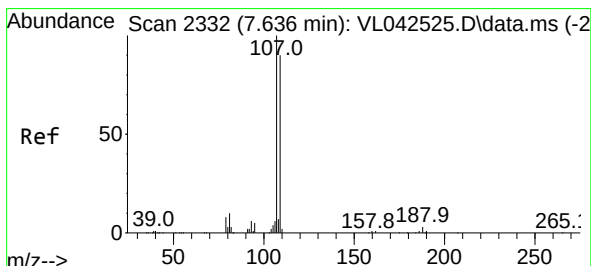
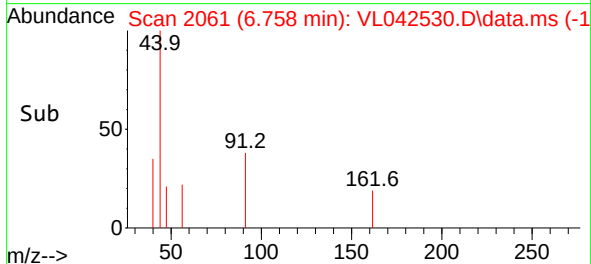
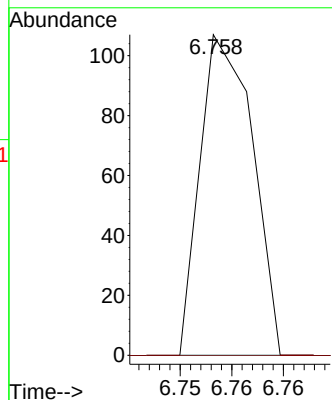
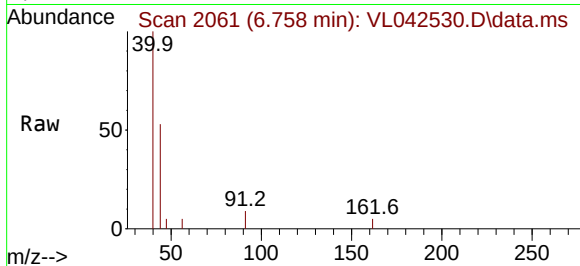




#53
Toluene
Concen: 0.002 ppbv
RT: 6.758 min Scan# 2061
Delta R.T. -0.156 min
Lab File: VL042530.D
Acq: 12 May 2025 11:49

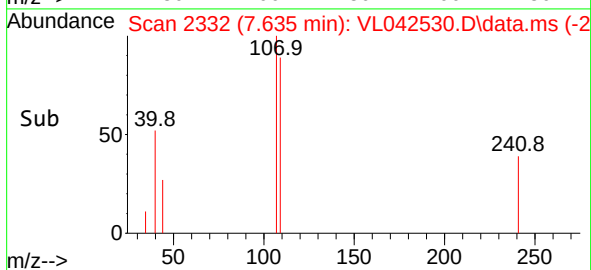
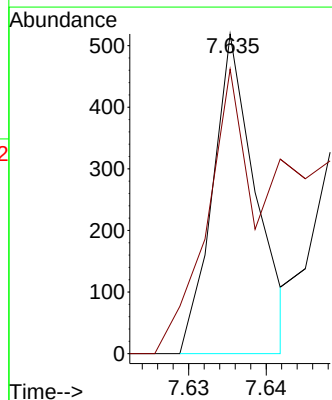
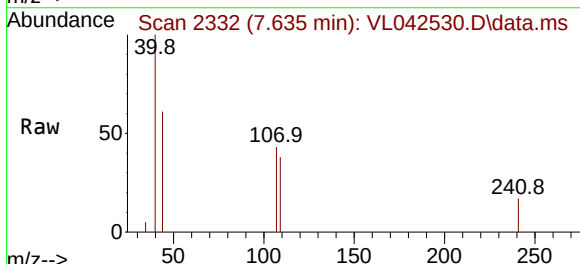
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

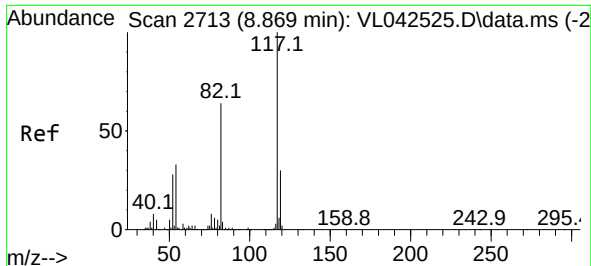
Tgt Ion: 91 Resp: 38
Ion Ratio Lower Upper
91 100
92 65.8 47.8 71.6



#54
1,2-Dibromoethane
Concen: 0.014 ppbv
RT: 7.635 min Scan# 2332
Delta R.T. -0.000 min
Lab File: VL042530.D
Acq: 12 May 2025 11:49

Tgt Ion: 107 Resp: 204
Ion Ratio Lower Upper
107 100
109 74.2 72.2 108.4

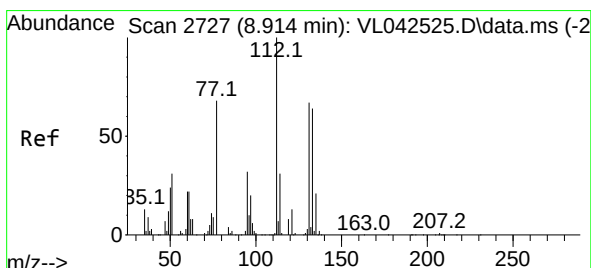
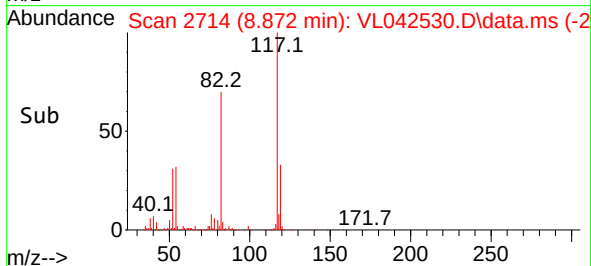
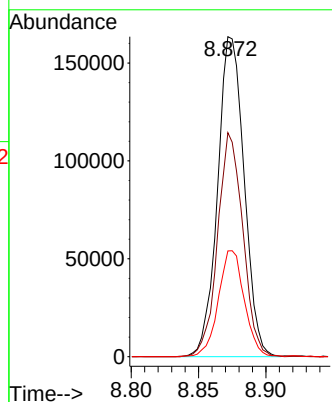
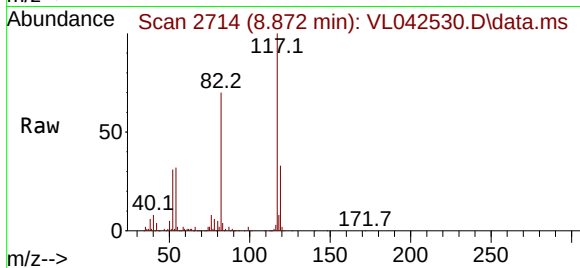




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2714
Delta R.T. 0.003 min
Lab File: VL042530.D
Acq: 12 May 2025 11:49

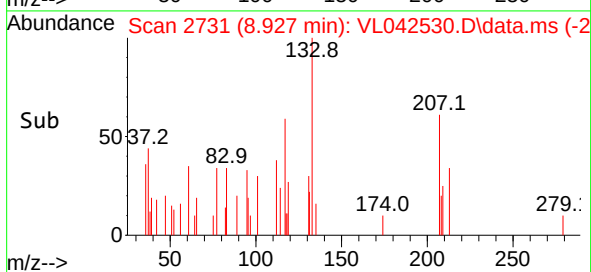
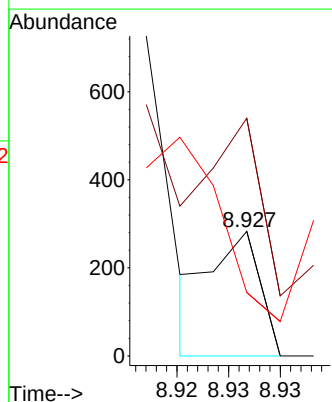
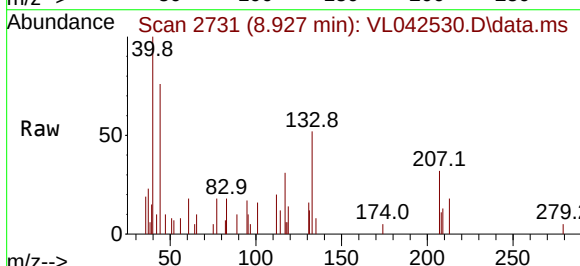
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

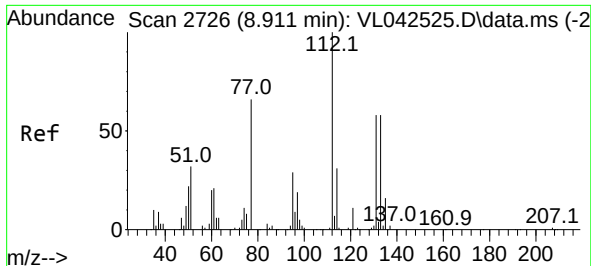
Tgt Ion:117	Resp:	223954	
Ion	Ratio	Lower	Upper
117	100		
82	66.6	55.0	82.4
119	32.6	25.8	38.6



#56
1,1,1,2-Tetrachloroethane
Concen: 0.007 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. 0.013 min
Lab File: VL042530.D
Acq: 12 May 2025 11:49

Tgt Ion:131	Resp:	92	
Ion	Ratio	Lower	Upper
131	100		
133	0.0	77.4	116.2#
119	0.0	49.0	73.4#

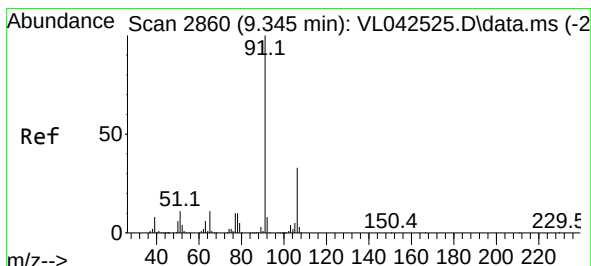
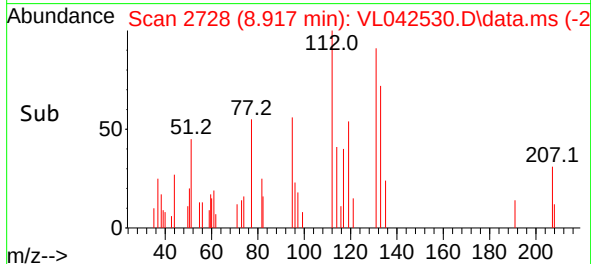
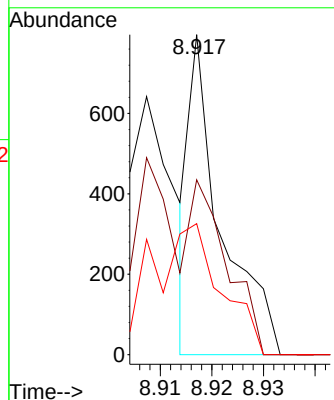
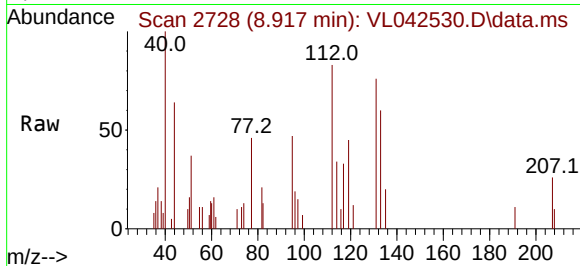




#57
Chlorobenzene
Concen: 0.015 ppbv
RT: 8.917 min Scan# 2117
Delta R.T. 0.006 min
Lab File: VL042530.D
Acq: 12 May 2025 11:49

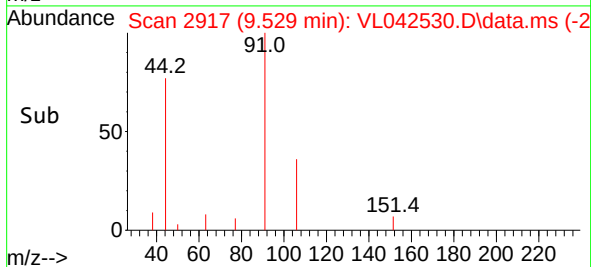
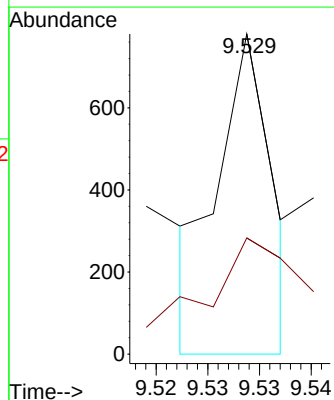
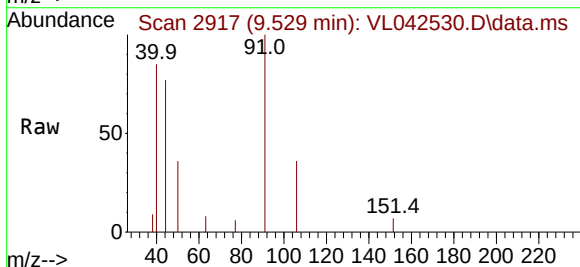
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

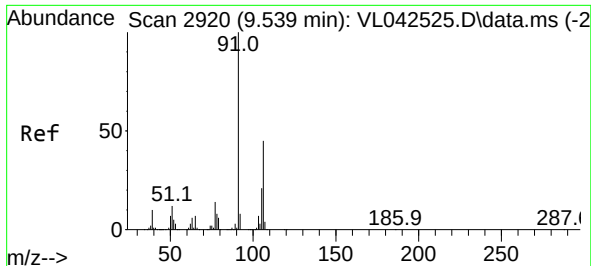
Tgt Ion:112 Resp: 338
Ion Ratio Lower Upper
112 100
77 54.6 53.6 80.4
114 41.0 28.2 34.4#



#58
Ethyl Benzene
Concen: 0.009 ppbv
RT: 9.529 min Scan# 2917
Delta R.T. 0.184 min
Lab File: VL042530.D
Acq: 12 May 2025 11:49

Tgt Ion: 91 Resp: 281
Ion Ratio Lower Upper
91 100
106 30.6 26.0 39.0





#59

m/p-Xylene

Concen: 0.012 ppbv

RT: 9.538 min Scan# 2920

Delta R.T. -0.000 min

Lab File: VL042530.D

Acq: 12 May 2025 11:49

Instrument :

MSVOA_L

ClientSampleId :

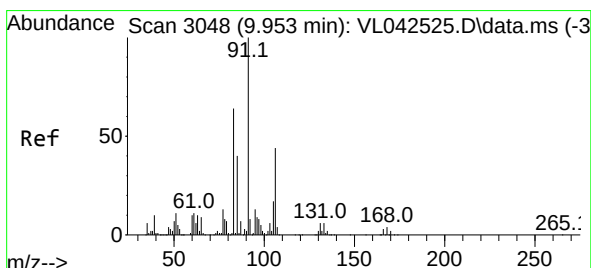
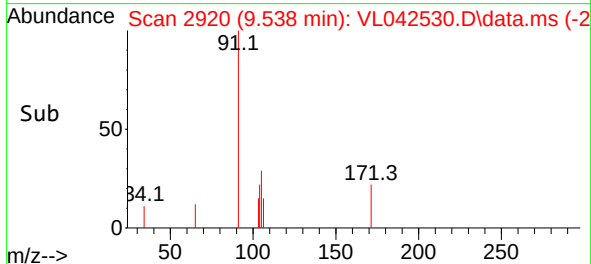
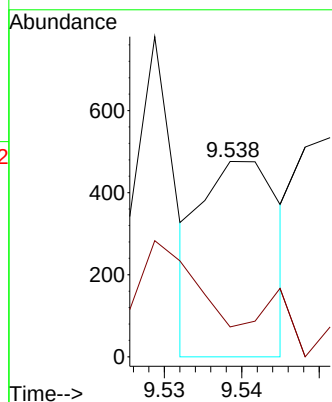
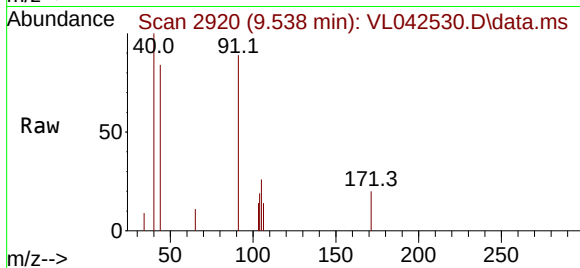
VSTDIC0.03

Tgt Ion: 91 Resp: 331

Ion Ratio Lower Upper

91 100

106 0.0 0.0 0.0



#60

o-Xylene

Concen: 0.019 ppbv

RT: 9.950 min Scan# 3047

Delta R.T. -0.004 min

Lab File: VL042530.D

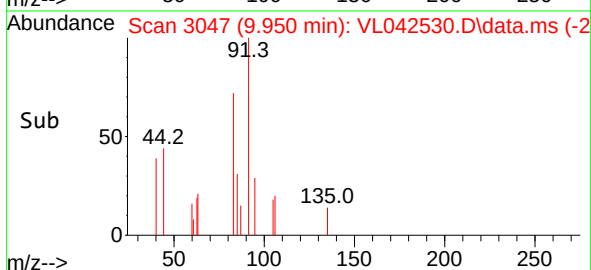
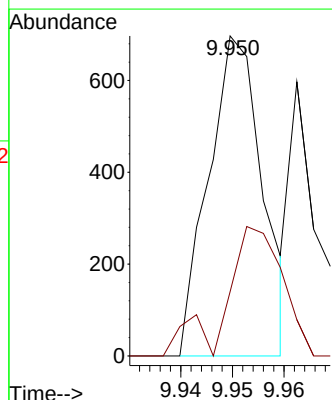
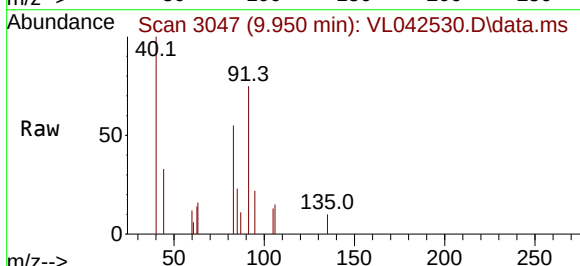
Acq: 12 May 2025 11:49

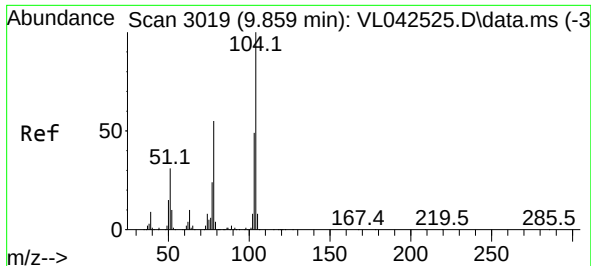
Tgt Ion: 91 Resp: 507

Ion Ratio Lower Upper

91 100

106 42.8 21.6 64.6

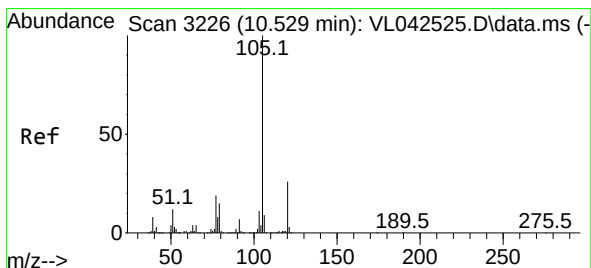
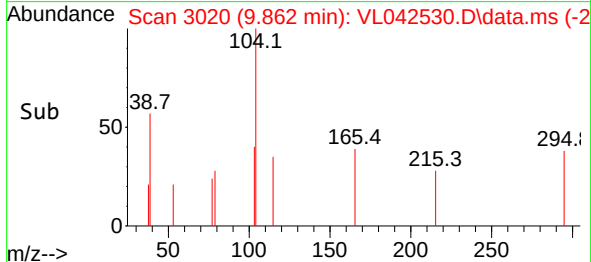
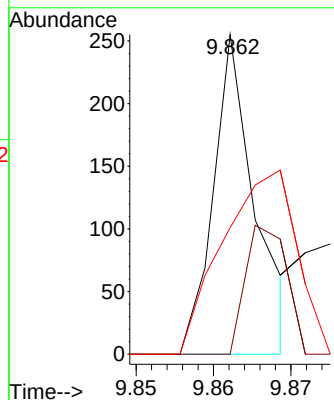
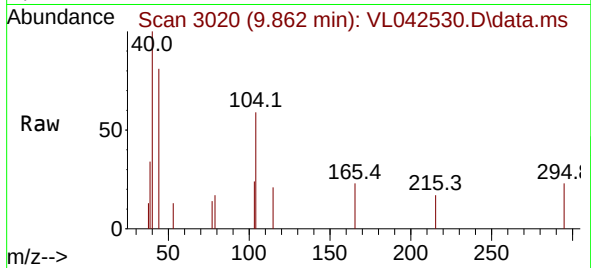




#61
Styrene
Concen: 0.010 ppbv
RT: 9.862 min Scan# 3019
Delta R.T. 0.003 min
Lab File: VL042530.D
Acq: 12 May 2025 11:49

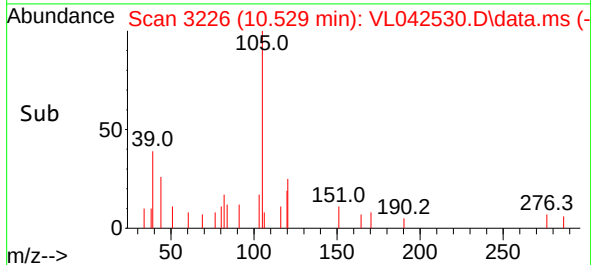
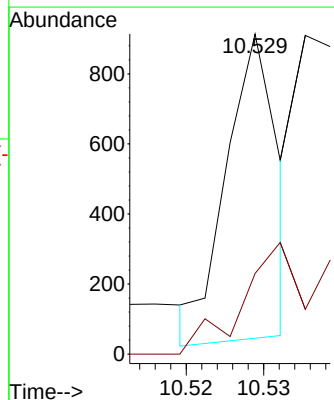
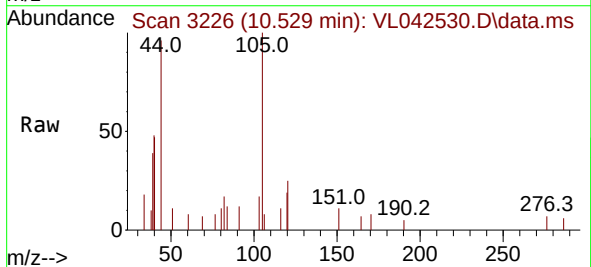
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

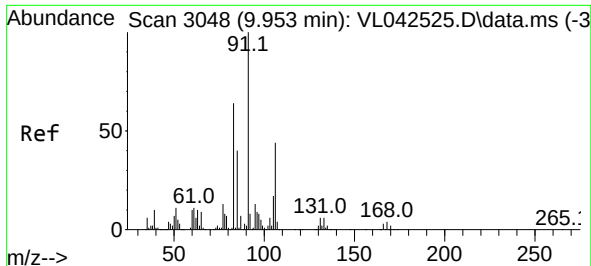
Tgt Ion:104 Resp: 96
Ion Ratio Lower Upper
104 100
78 39.6 44.7 67.1#
103 101.0 38.6 58.0#



#62
Isopropylbenzene
Concen: 0.010 ppbv
RT: 10.529 min Scan# 3226
Delta R.T. -0.000 min
Lab File: VL042530.D
Acq: 12 May 2025 11:49

Tgt Ion:105 Resp: 403
Ion Ratio Lower Upper
105 100
120 69.7 20.1 30.1#

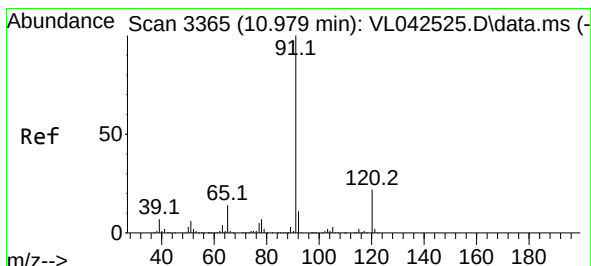
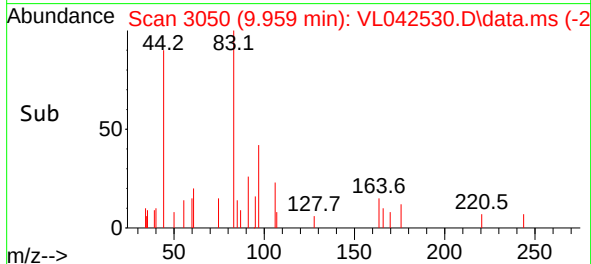
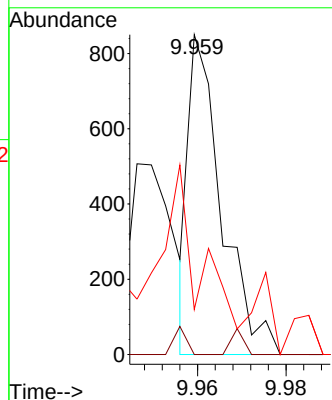
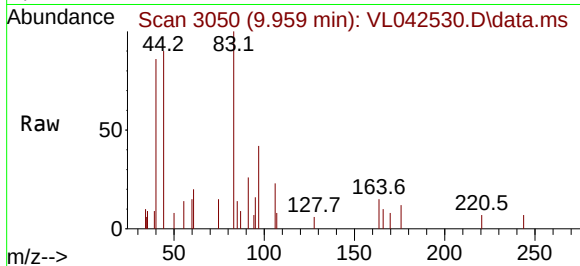




#63
1,1,2,2-Tetrachloroethane
Concen: 0.021 ppbv
RT: 9.959 min Scan# 3048
Delta R.T. 0.006 min
Lab File: VL042530.D
Acq: 12 May 2025 11:49

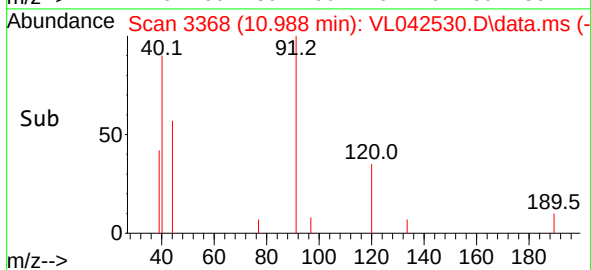
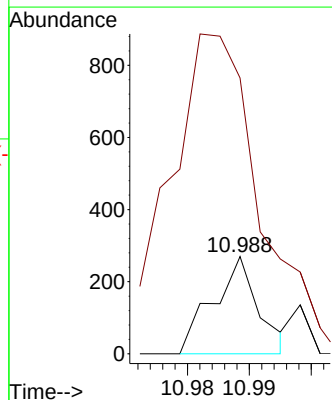
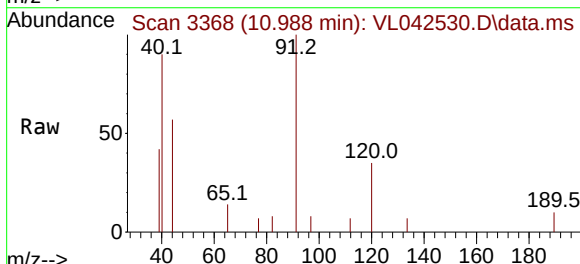
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

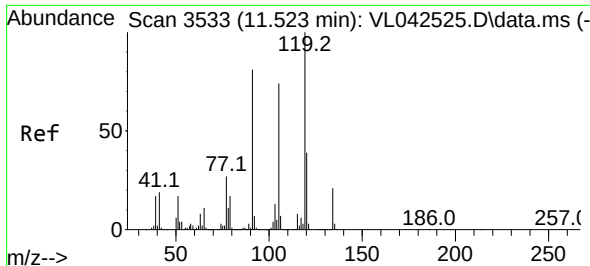
Tgt Ion: 83 Resp: 444
Ion Ratio Lower Upper
83 100
131 0.0 4.9 14.7#
85 112.6 32.3 96.8#



#64
n-propylbenzene
Concen: 0.014 ppbv
RT: 10.988 min Scan# 3368
Delta R.T. 0.009 min
Lab File: VL042530.D
Acq: 12 May 2025 11:49

Tgt Ion: 120 Resp: 138
Ion Ratio Lower Upper
120 100
91 690.6 377.7 566.5#

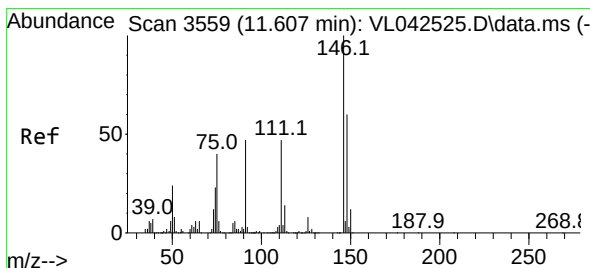
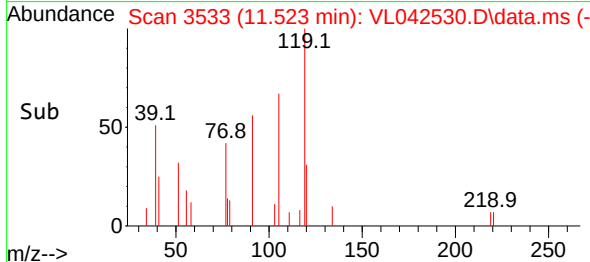
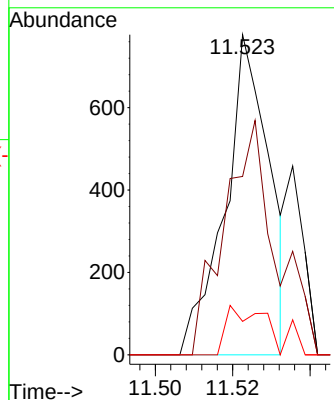
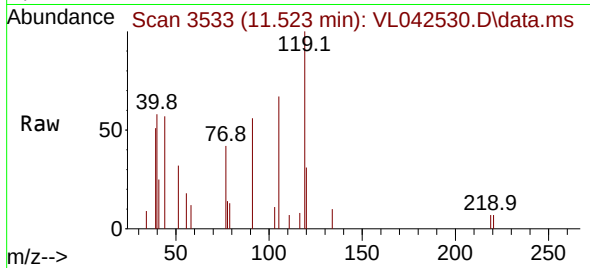




#65
tert-Butylbenzene
Concen: 0.017 ppbv
RT: 11.523 min Scan# 3533
Delta R.T. -0.000 min
Lab File: VL042530.D
Acq: 12 May 2025 11:49

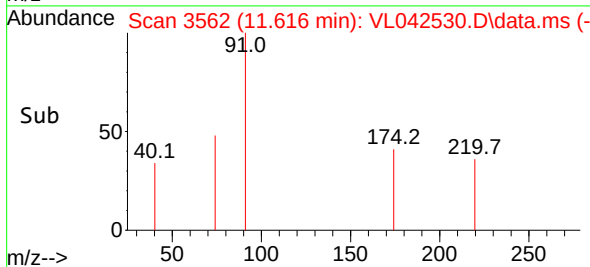
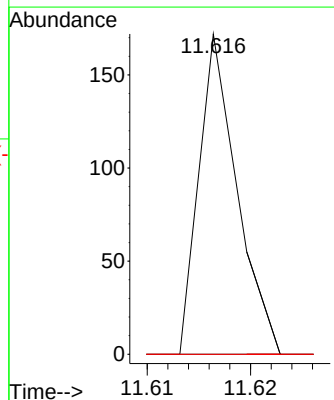
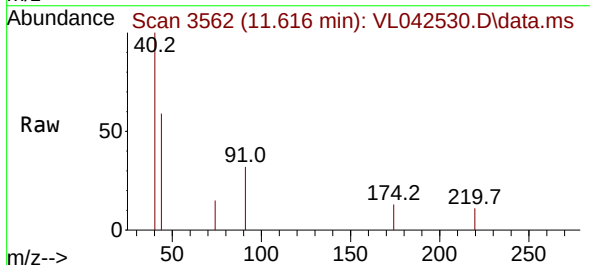
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

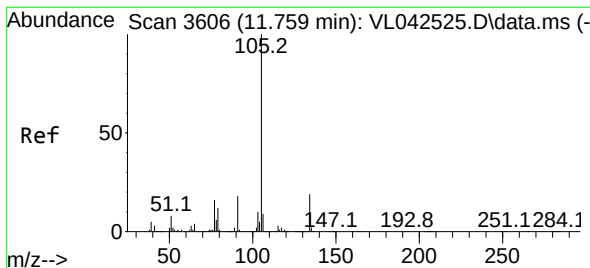
Tgt Ion:119 Resp: 618
Ion Ratio Lower Upper
119 100
91 85.0 66.6 99.8
134 15.4 16.3 24.5#



#66
Benzyl Chloride
Concen: 0.009 ppbv
RT: 11.616 min Scan# 3562
Delta R.T. 0.009 min
Lab File: VL042530.D
Acq: 12 May 2025 11:49

Tgt Ion: 91 Resp: 44
Ion Ratio Lower Upper
91 100
126 0.0 13.7 20.5#
128 0.0 4.2 6.2#





#67

sec-Butylbenzene

Concen: 0.012 ppbv

RT: 11.762 min Scan# 3606

Delta R.T. 0.003 min

Lab File: VL042530.D

Acq: 12 May 2025 11:49

Instrument :

MSVOA_1

ClientSampleId :

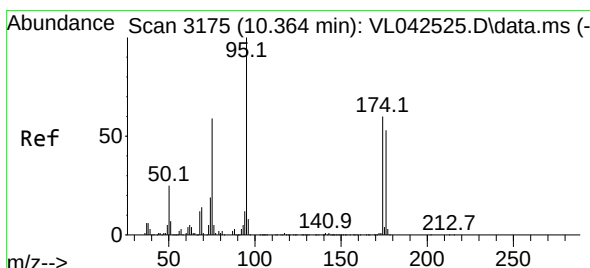
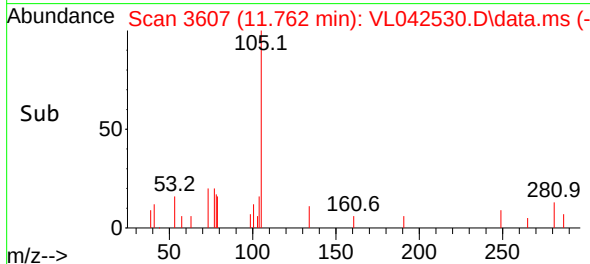
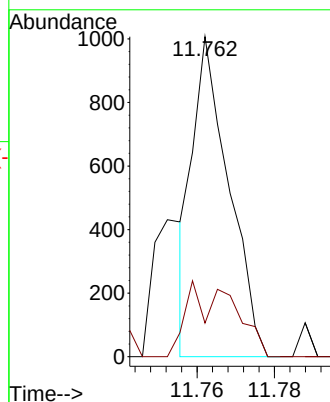
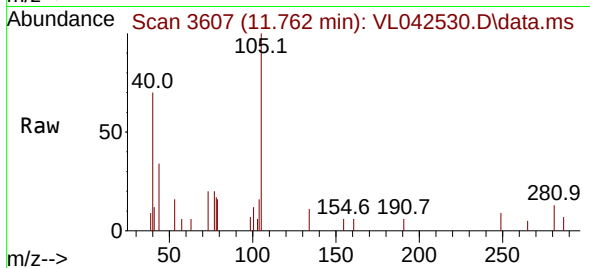
VSTDIC0.03

Tgt Ion:105 Resp: 653

Ion Ratio Lower Upper

105 100

134 32.9 14.9 22.3#



#68

1-Bromo-4-Fluorobenzene

Concen: 9.778 ppbv

RT: 10.370 min Scan# 3177

Delta R.T. 0.006 min

Lab File: VL042530.D

Acq: 12 May 2025 11:49

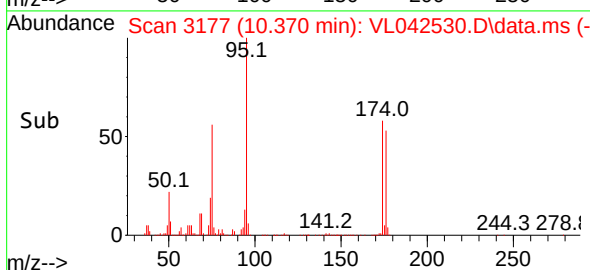
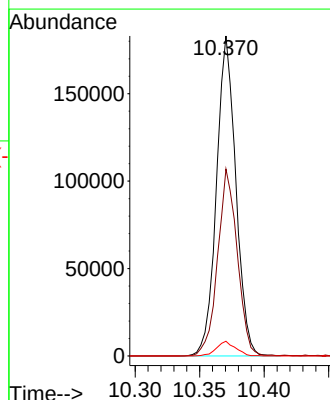
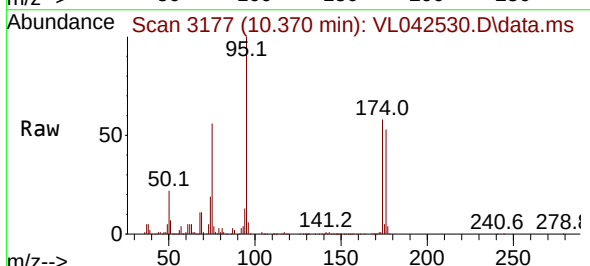
Tgt Ion: 95 Resp: 190537

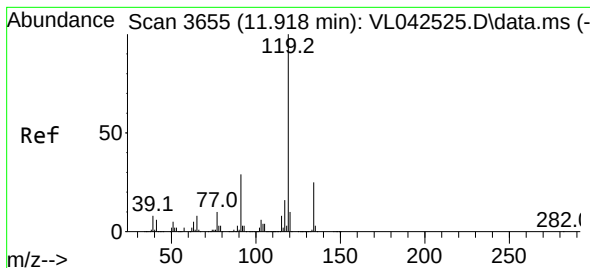
Ion Ratio Lower Upper

95 100

174 59.3 48.0 72.0

175 4.5 3.5 5.3





#69

p-Isopropyltoluene

Concen: 0.009 ppbv

RT: 11.924 min Scan# 3657

Delta R.T. 0.006 min

Lab File: VL042530.D

Acq: 12 May 2025 11:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.03

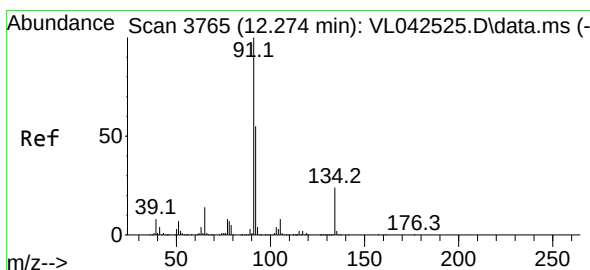
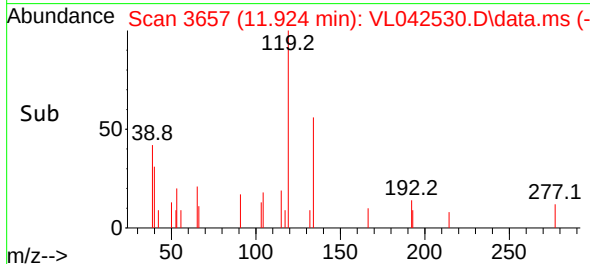
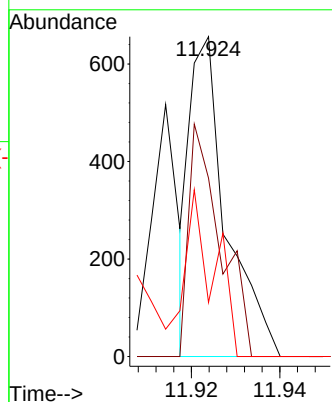
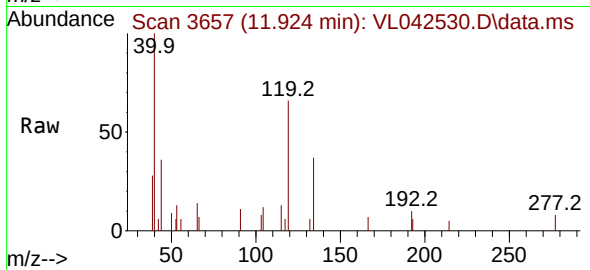
Tgt Ion:119 Resp: 375

Ion Ratio Lower Upper

119 100

134 63.7 19.8 29.6#

91 58.9 23.6 35.4#



#70

n-Butylbenzene

Concen: 0.012 ppbv

RT: 12.280 min Scan# 3767

Delta R.T. 0.006 min

Lab File: VL042530.D

Acq: 12 May 2025 11:49

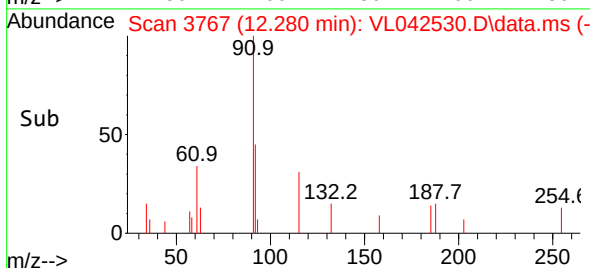
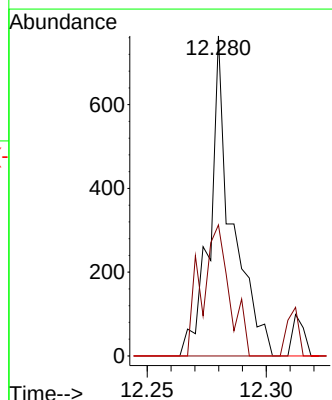
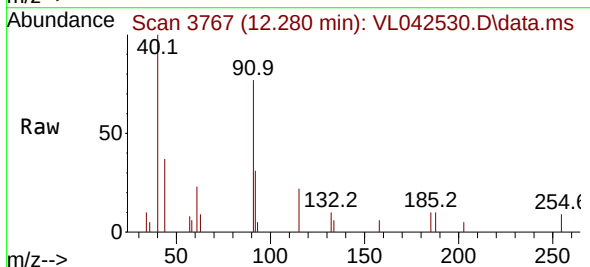
Tgt Ion: 91 Resp: 493

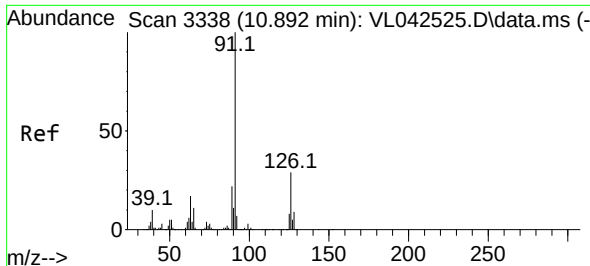
Ion Ratio Lower Upper

91 100

92 51.5 43.7 65.5

134 0.0 18.9 28.3#

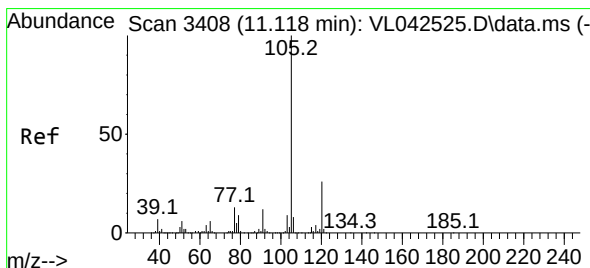
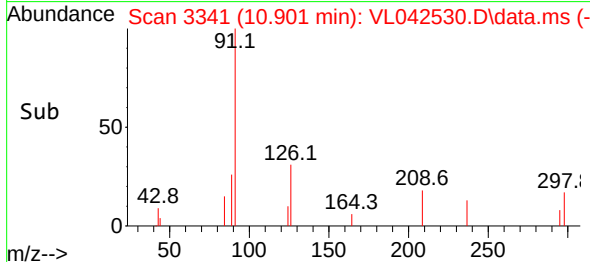
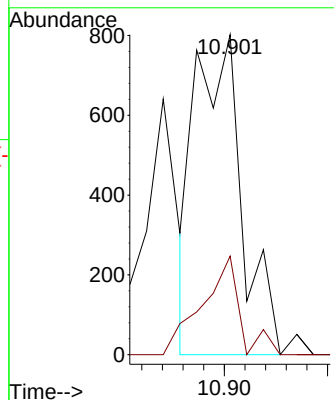
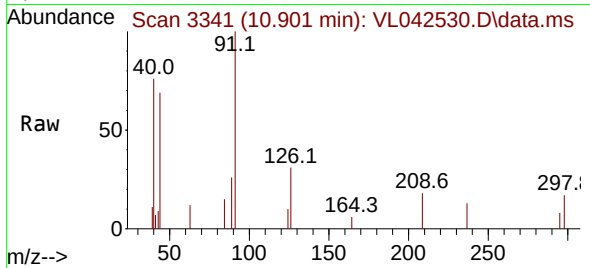




#71
2-Chlorotoluene
Concen: 0.017 ppbv
RT: 10.901 min Scan# 3338
Delta R.T. 0.009 min
Lab File: VL042530.D
Acq: 12 May 2025 11:49

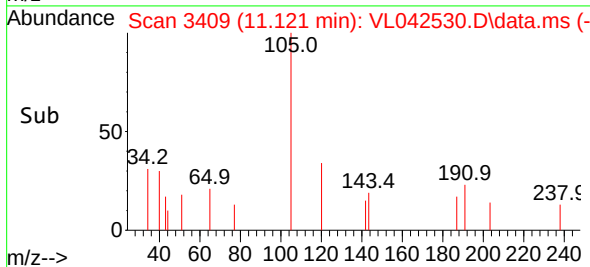
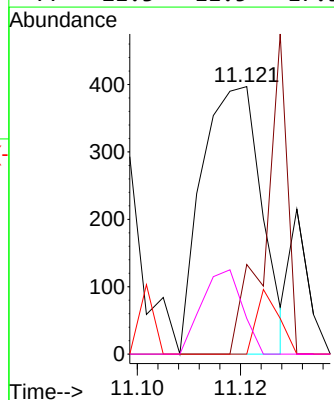
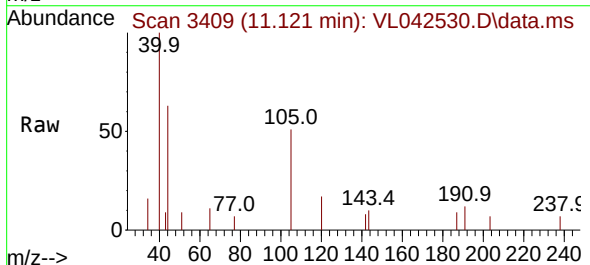
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

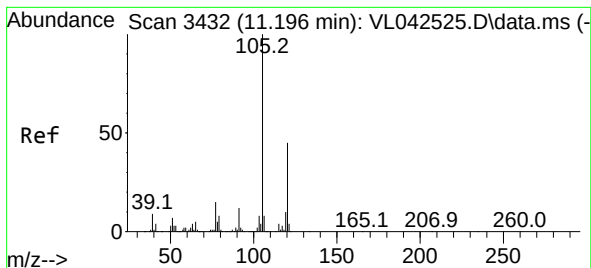
Tgt Ion: 91 Resp: 501
Ion Ratio Lower Upper
91 100
126 25.1 11.4 45.6



#72
4-Ethyltoluene
Concen: 0.010 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. 0.003 min
Lab File: VL042530.D
Acq: 12 May 2025 11:49

Tgt Ion: 105 Resp: 320
Ion Ratio Lower Upper
105 100
120 0.0 22.9 34.3#
91 0.0 10.9 16.3#
77 21.3 11.5 17.3#





#73

1,3,5-Trimethylbenzene

Concen: 0.017 ppbv

RT: 11.202 min Scan# 3432

Delta R.T. 0.006 min

Lab File: VL042530.D

Acq: 12 May 2025 11:49

Instrument :

MSVOA_L

ClientSampleId :

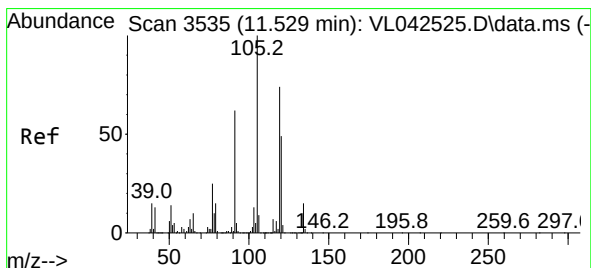
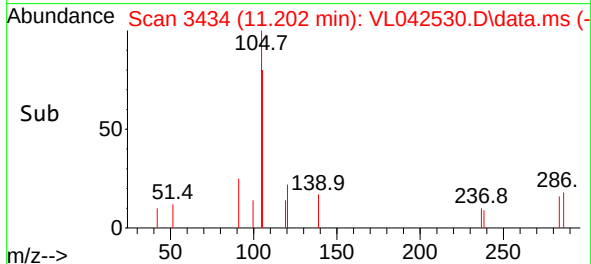
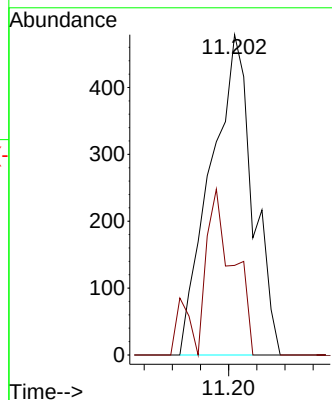
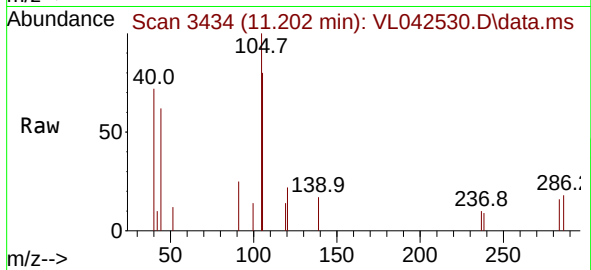
VSTDIC0.03

Tgt Ion:105 Resp: 496

Ion Ratio Lower Upper

105 100

120 28.0 36.0 54.0#



#74

1,2,4-Trimethylbenzene

Concen: 0.016 ppbv

RT: 11.535 min Scan# 3537

Delta R.T. 0.006 min

Lab File: VL042530.D

Acq: 12 May 2025 11:49

Tgt Ion:105 Resp: 568

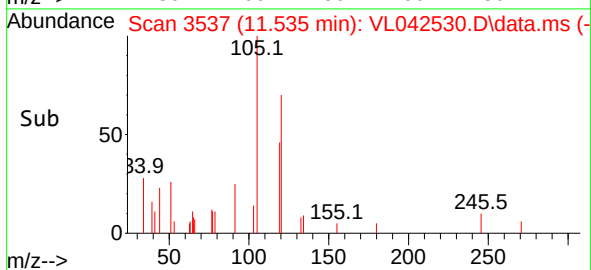
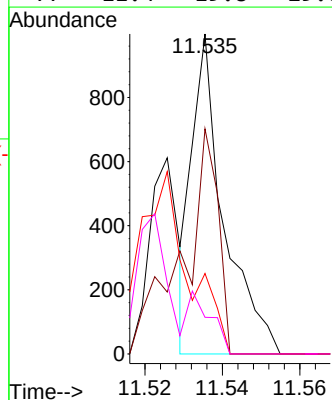
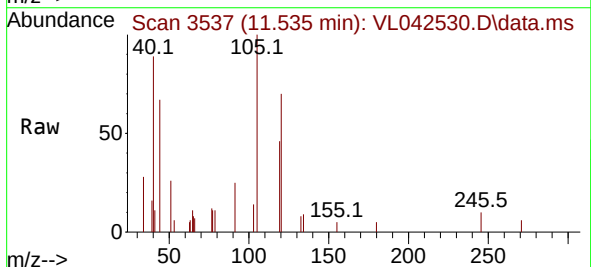
Ion Ratio Lower Upper

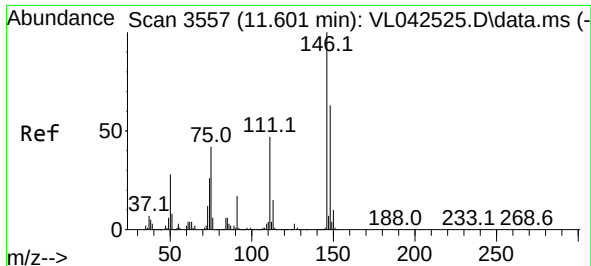
105 100

120 70.3 39.0 58.6#

91 25.2 49.4 74.2#

77 11.4 19.8 29.6#

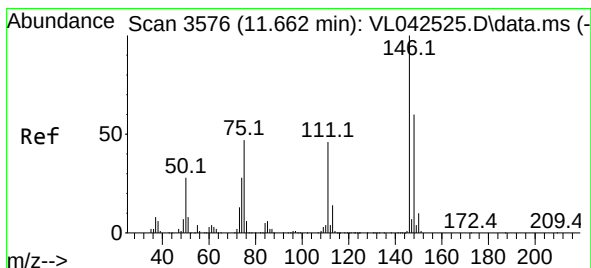
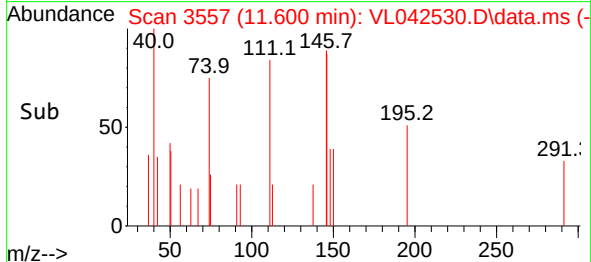
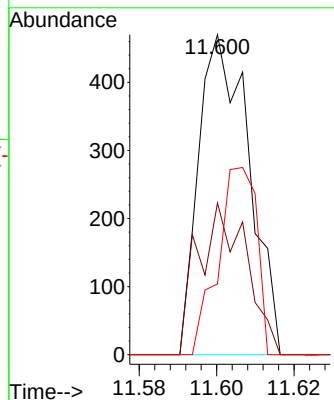
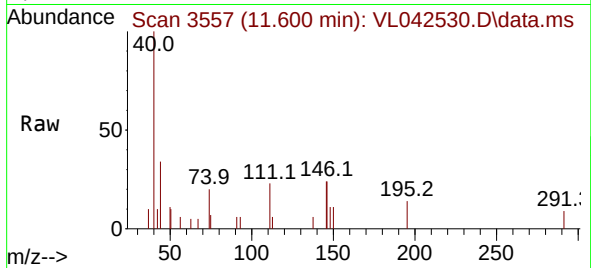




#75
1,3-Dichlorobenzene
Concen: 0.019 ppbv
RT: 11.600 min Scan# 3557
Delta R.T. -0.000 min
Lab File: VL042530.D
Acq: 12 May 2025 11:49

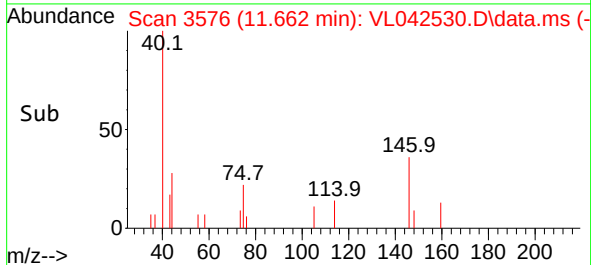
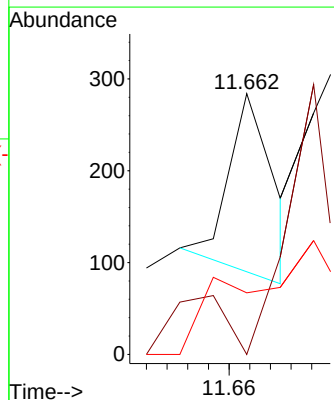
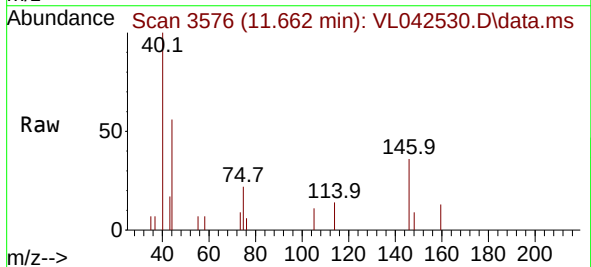
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

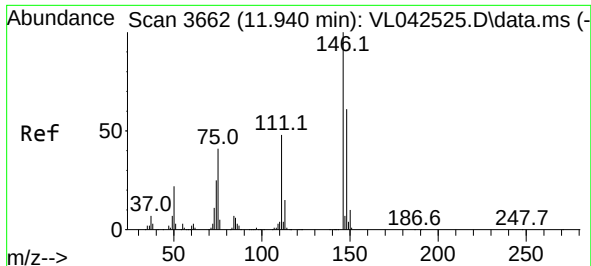
Tgt Ion:146 Resp: 423
Ion Ratio Lower Upper
146 100
111 45.4 23.6 71.0
148 45.2 31.6 94.8



#76
1,4-Dichlorobenzene
Concen: 0.003 ppbv
RT: 11.662 min Scan# 3576
Delta R.T. -0.000 min
Lab File: VL042530.D
Acq: 12 May 2025 11:49

Tgt Ion:146 Resp: 56
Ion Ratio Lower Upper
146 100
111 0.0 23.4 70.3#
148 0.0 31.6 94.7#

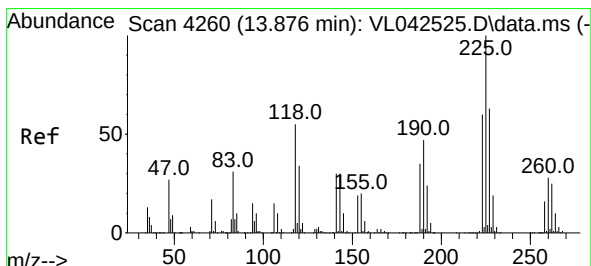
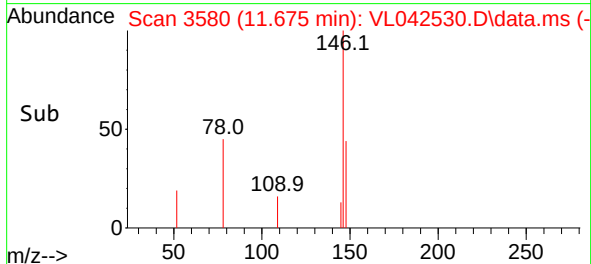
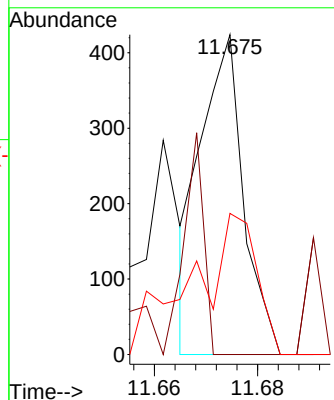
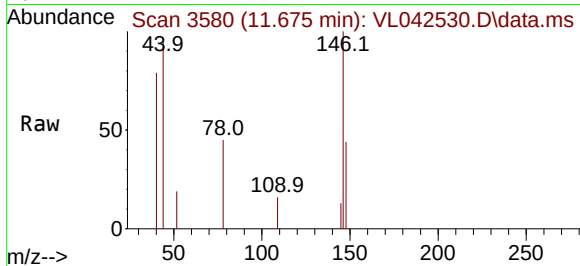




#77
1,2-Dichlorobenzene
Concen: 0.011 ppbv
RT: 11.675 min Scan# 311
Delta R.T. -0.266 min
Lab File: VL042530.D
Acq: 12 May 2025 11:49

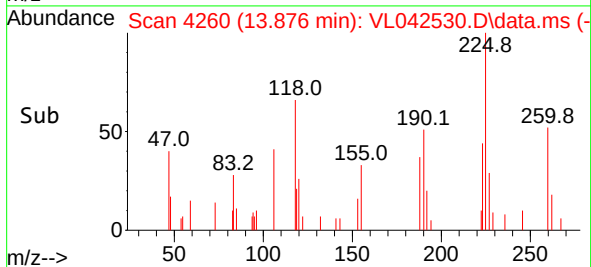
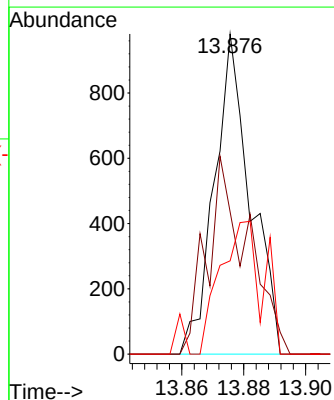
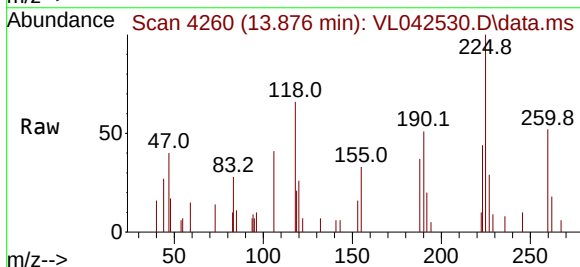
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

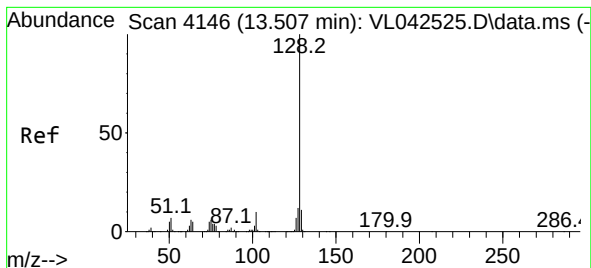
Tgt Ion:146	Resp:	244	
Ion	Ratio	Lower	Upper
146	100		
111	41.4	24.9	74.8
148	67.2	31.4	94.2



#78
Hexachloro-1,3-Butadiene
Concen: 0.041 ppbv
RT: 13.876 min Scan# 4260
Delta R.T. -0.000 min
Lab File: VL042530.D
Acq: 12 May 2025 11:49

Tgt Ion:225	Resp:	796	
Ion	Ratio	Lower	Upper
225	100		
223	69.3	50.8	76.2
227	51.9	50.5	75.7

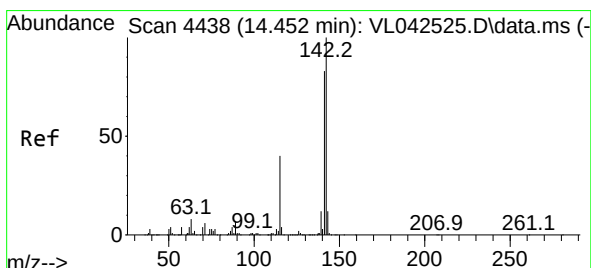
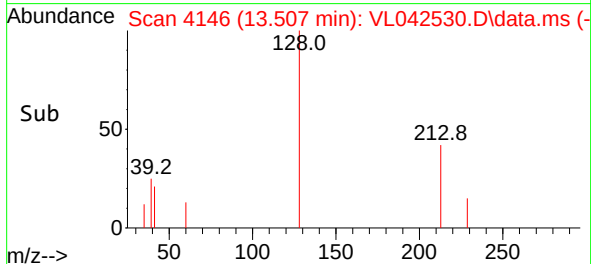
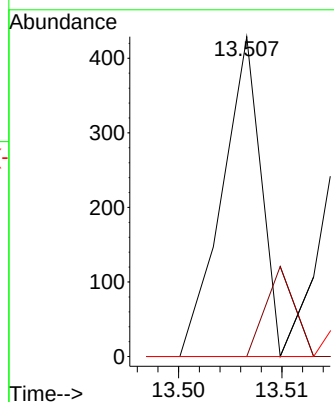
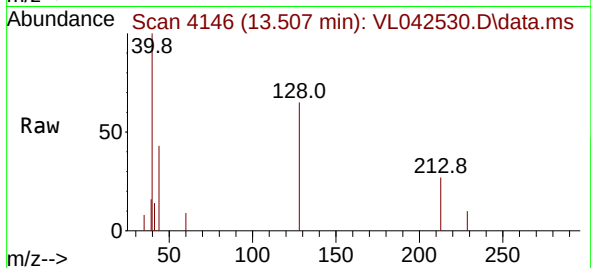




#79
Naphthalene
Concen: 0.005 ppbv
RT: 13.507 min Scan# 4146
Delta R.T. -0.000 min
Lab File: VL042530.D
Acq: 12 May 2025 11:49

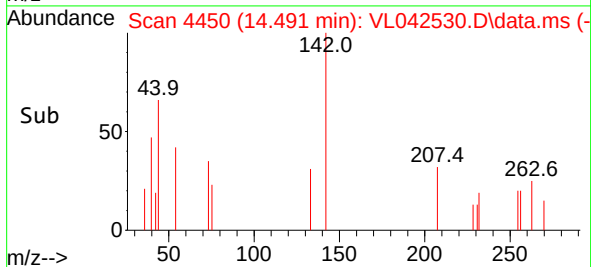
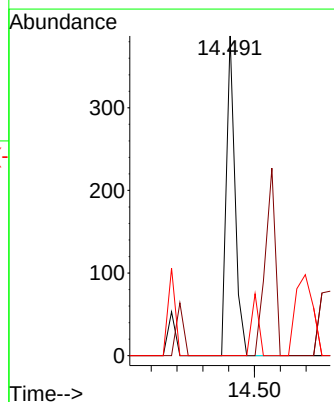
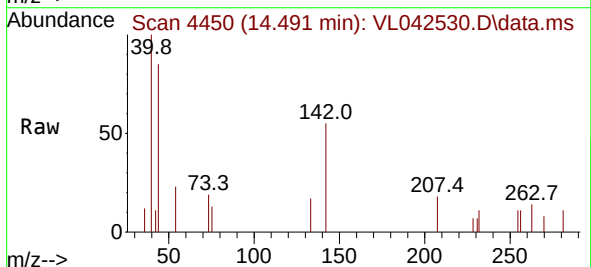
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

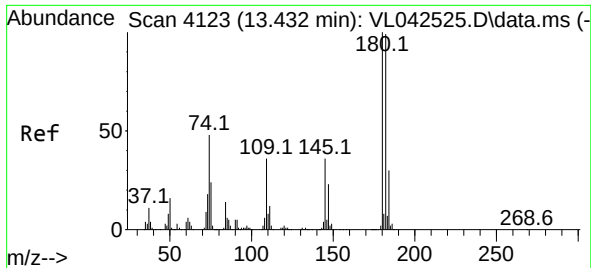
Tgt Ion:128 Resp: 112
Ion Ratio Lower Upper
128 100
127 0.0 9.8 14.8#
129 0.0 8.6 12.8#



#80
Naphthalene,2-methyl-
Concen: 0.006 ppbv
RT: 14.491 min Scan# 4450
Delta R.T. 0.039 min
Lab File: VL042530.D
Acq: 12 May 2025 11:49

Tgt Ion:142 Resp: 90
Ion Ratio Lower Upper
142 100
141 13.3 66.8 100.2#
115 16.7 33.0 49.6#





#81

1,2,4-Trichlorobenzene

Concen: 0.002 ppbv

RT: 13.442 min Scan# 41

Delta R.T. 0.009 min

Lab File: VL042530.D

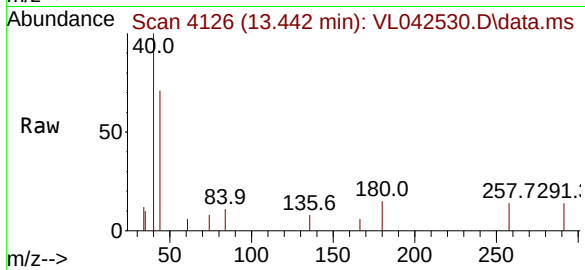
Acq: 12 May 2025 11:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03



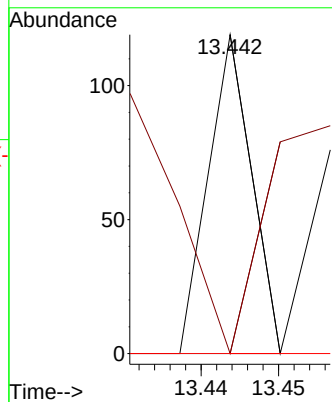
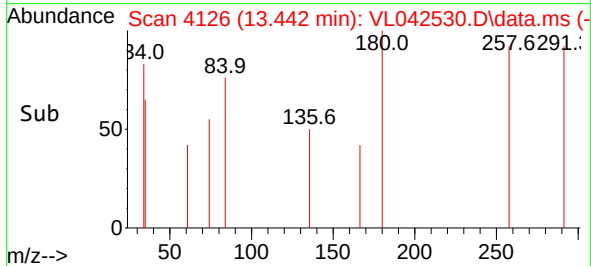
Tgt Ion:180 Resp: 23

Ion Ratio Lower Upper

180 100

182 0.0 76.6 114.8#

184 0.0 24.6 36.8#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051225\
 Data File : VL042532.D
 Acq On : 12 May 2025 12:58
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Quant Time: May 12 23:50:30 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Mon May 12 23:42:45 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	103341	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	300628	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	251305	10.000	ppbv	0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	223868	10.238	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.400%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	34904	2.080	ppbv	96
3) Chlorodifluoromethane	1.473	51	37203	2.175	ppbv	99
4) Chloromethane	1.528	50	15355	2.242	ppbv	98
5) Vinyl Chloride	1.577	62	13527	1.930	ppbv	100
6) Bromomethane	1.664	94	6881	2.068	ppbv	92
7) Chloroethane	1.703	64	6123	2.220	ppbv #	86
8) Dichlorotetrafluoroethane	1.551	85	29662	2.054	ppbv	98
9) Propene	1.479	41	3429	0.923	ppbv #	1
10) Heptane	4.975	43	28195	1.991	ppbv	97
11) Trichlorofluoromethane	1.874	101	34879	2.161	ppbv	92
12) 1,1,2-Trichlorotrifluo...	2.136	101	27757	2.141	ppbv	95
13) Ethanol	1.719	45	1983	1.956	ppbv	89
14) Bromoethene	1.780	108	10359	2.192	ppbv	95
15) Acetone	1.832	43	37463	2.269	ppbv	98
16) 1,3-Butadiene	1.606	39	15833	2.132	ppbv	95
17) tert-Butyl alcohol	2.039	59	30915	2.026	ppbv	98
18) 1,1-Dichloroethene	2.033	96	11781	2.073	ppbv	87
19) Isopropyl Alcohol	1.884	45	18501	2.062	ppbv #	95
20) Methylene Chloride	2.059	84	11357	1.975	ppbv	93
21) Allyl Chloride	2.094	41	22565	2.064	ppbv	96
22) trans-1,2-Dichloroethene	2.337	96	14573	2.193	ppbv	81
23) Vinyl Acetate	2.460	43	34320	1.985	ppbv #	97
24) 1,1-Dichloroethane	2.405	63	27421	2.132	ppbv	99
25) Ethyl Acetate	2.836	43	61595	2.124	ppbv	100
26) Hexane	2.823	57	23715	1.992	ppbv	86
27) Carbon Disulfide	2.146	76	31735	2.065	ppbv #	94
28) Methyl tert-Butyl Ether	2.438	73	13425	2.030	ppbv	94
29) Chloroform	2.845	83	51800	2.098	ppbv	97
30) Cyclohexane	3.855	84	18925	1.936	ppbv	94
31) cis-1,2-Dichloroethene	2.719	61	26277	1.955	ppbv	88
32) 1,1,1-Trichloroethane	3.363	97	50640	2.033	ppbv	98
34) 2-Butanone	2.557	43	39851	2.011	ppbv	98
35) Carbon Tetrachloride	3.761	117	54873	2.030	ppbv	89
36) Benzene	3.651	78	52942	1.987	ppbv	99
37) 1,2-Dichloroethane	3.214	62	39974	2.103	ppbv	100
38) Trichloroethene	4.541	130	13452	1.182	ppbv	96
39) 1,2-Dichloropropane	4.312	63	19038	1.920	ppbv	92
40) 1,4-Dioxane	4.590	88	4869	1.231	ppbv #	25
41) Tetrahydrofuran	3.059	42	16817	1.968	ppbv	98
42) Bromodichloromethane	4.490	83	52451	2.072	ppbv	92
43) Methyl Methacrylate	4.871	69	6876	0.773	ppbv #	1
44) 2,2,4-Trimethylpentane	4.632	57	45642	1.091	ppbv #	40
45) t-1,3-Dichloropropene	6.412	75	19945	1.756	ppbv	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051225\
 Data File : VL042532.D
 Acq On : 12 May 2025 12:58
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

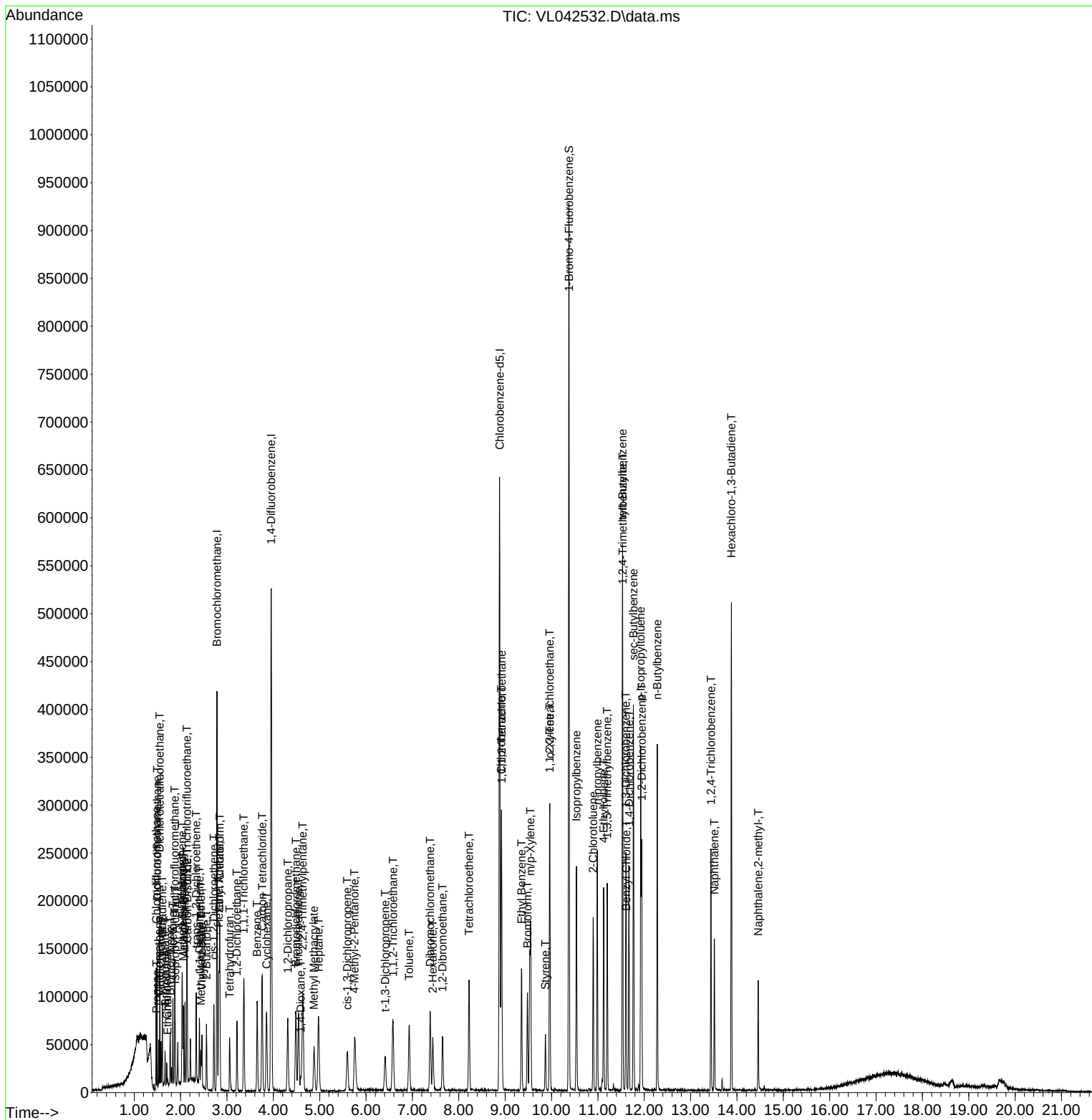
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

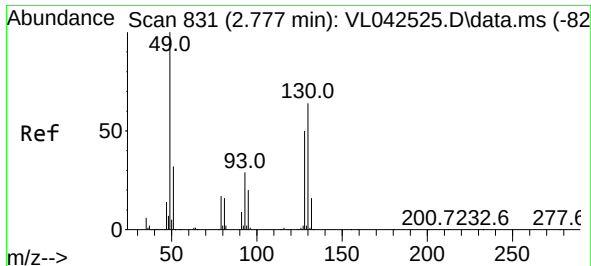
Quant Time: May 12 23:50:30 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Mon May 12 23:42:45 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	13533	0.988	ppbv	96
47) 1,1,2-Trichloroethane	6.584	97	10013	0.857	ppbv	95
48) Dibromochloromethane	7.383	129	40163	2.058	ppbv	99
49) Bromoform	9.480	173	32916	2.056	ppbv	98
50) 4-Methyl-2-Pentanone	5.752	43	46331	1.994	ppbv	96
51) 2-Hexanone	7.438	43	33088	1.916	ppbv #	96
52) Tetrachloroethene	8.221	164	19118	1.863	ppbv	94
53) Toluene	6.930	91	49216	1.882	ppbv	96
54) 1,2-Dibromoethane	7.648	107	33420	1.958	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.924	131	33013	2.119	ppbv	94
57) Chlorobenzene	8.917	112	54172	2.147	ppbv	92
58) Ethyl Benzene	9.351	91	66256	1.934	ppbv	91
59) m/p-Xylene	9.545	91	78521	2.577	ppbv #	100
60) o-Xylene	9.963	91	64958	2.188	ppbv	99
61) Styrene	9.869	104	19477	1.781	ppbv	98
62) Isopropylbenzene	10.539	105	96054	2.147	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.959	83	49909	2.096	ppbv	98
64) n-propylbenzene	10.989	120	25286	2.230	ppbv	93
65) tert-Butylbenzene	11.529	119	93604	2.278	ppbv	97
66) Benzyl Chloride	11.613	91	11128	2.047	ppbv	96
67) sec-Butylbenzene	11.765	105	136432	2.316	ppbv	100
69) p-Isopropyltoluene	11.924	119	112913	2.332	ppbv	98
70) n-Butylbenzene	12.280	91	112776	2.357	ppbv	96
71) 2-Chlorotoluene	10.898	91	68153	2.012	ppbv	97
72) 4-Ethyltoluene	11.125	105	79670	2.162	ppbv	96
73) 1,3,5-Trimethylbenzene	11.202	105	71983	2.242	ppbv	99
74) 1,2,4-Trimethylbenzene	11.536	105	96474	2.443	ppbv	94
75) 1,3-Dichlorobenzene	11.604	146	54948	2.221	ppbv	98
76) 1,4-Dichlorobenzene	11.672	146	53480	2.272	ppbv	97
77) 1,2-Dichlorobenzene	11.947	146	59194	2.317	ppbv	98
78) Hexachloro-1,3-Butadiene	13.879	225	49456	2.258	ppbv	97
79) Naphthalene	13.513	128	69902	2.564	ppbv	99
80) Naphthalene,2-methyl-	14.458	142	29203	1.841	ppbv	95
81) 1,2,4-Trichlorobenzene	13.439	180	37757	2.268	ppbv	98

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

Quant Time: May 12 23:50:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Mon May 12 23:42:45 2025
Response via : Initial Calibration

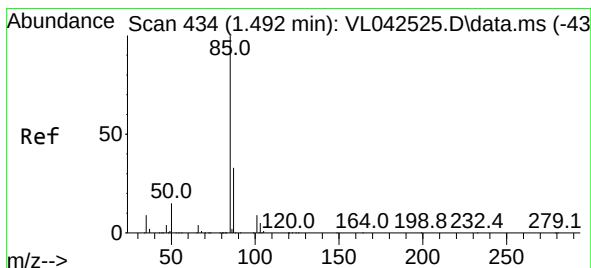
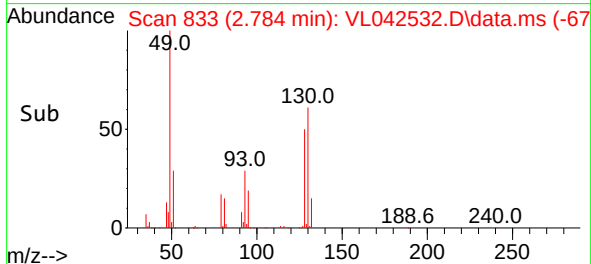
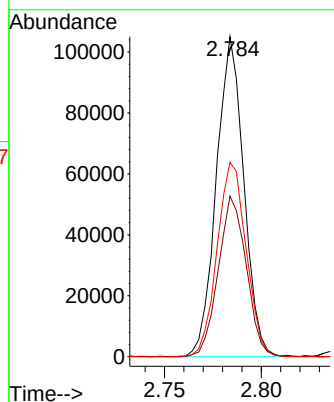
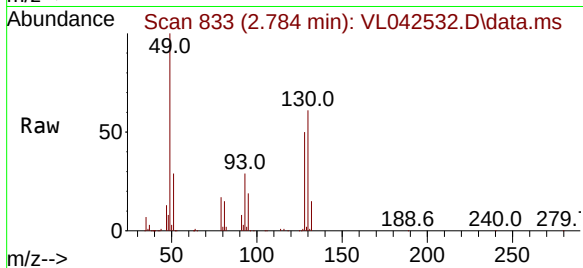




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. 0.007 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

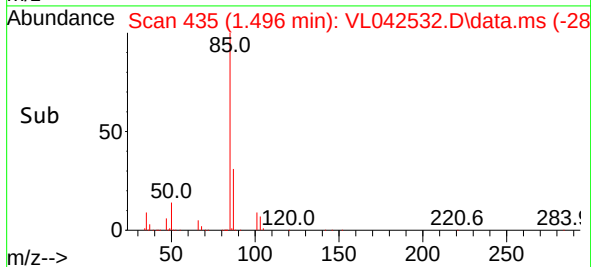
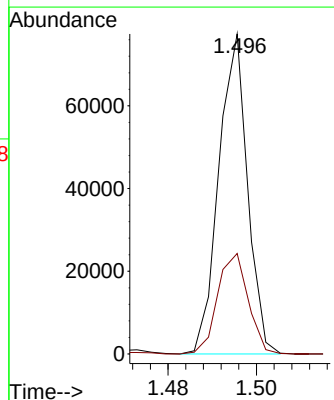
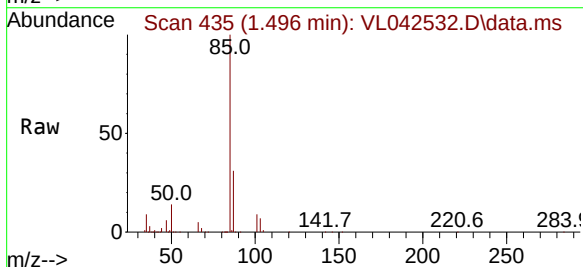
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

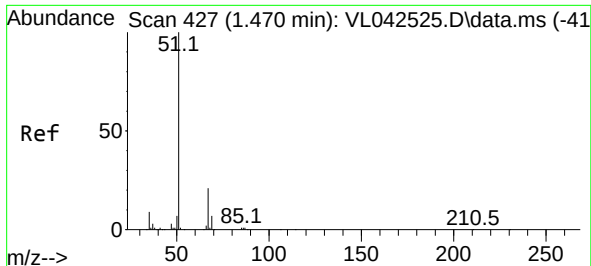
Tgt Ion: 49 Resp: 103341
Ion Ratio Lower Upper
49 100
128 51.0 24.9 74.6
130 64.2 32.5 97.5



#2
Dichlorodifluoromethane
Concen: 2.080 ppbv
RT: 1.496 min Scan# 435
Delta R.T. 0.003 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

Tgt Ion: 85 Resp: 34904
Ion Ratio Lower Upper
85 100
87 31.4 26.8 40.2

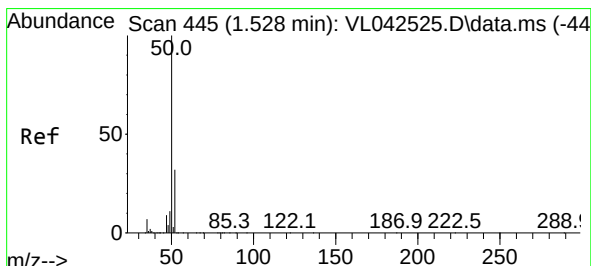
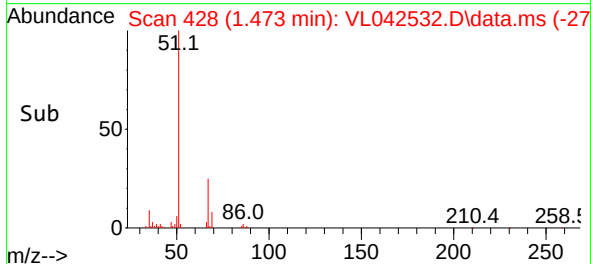
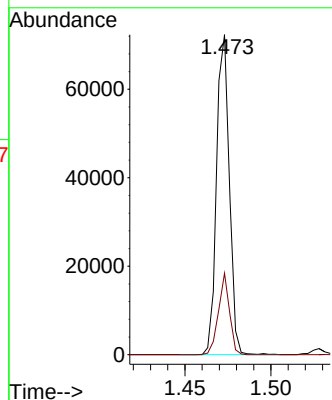
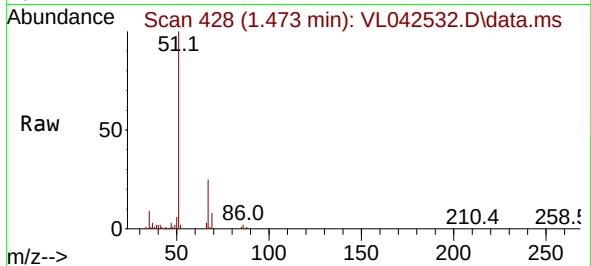




#3
Chlorodifluoromethane
Concen: 2.175 ppbv
RT: 1.473 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

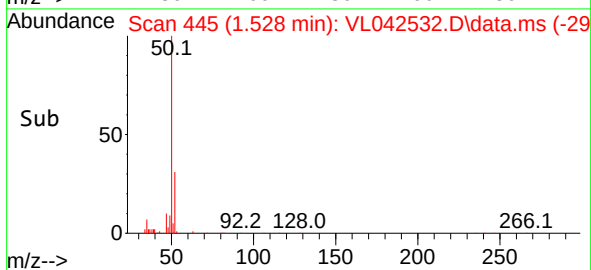
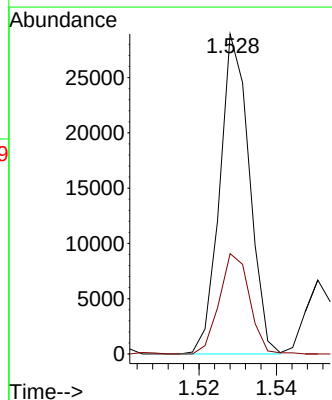
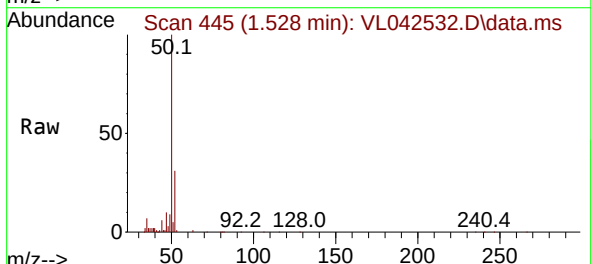
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC002

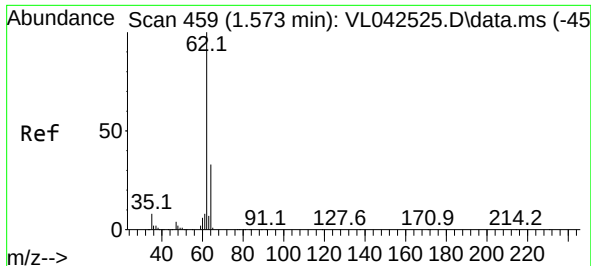
Tgt Ion: 51 Resp: 37203
Ion Ratio Lower Upper
51 100
67 22.0 17.4 26.0



#4
Chloromethane
Concen: 2.242 ppbv
RT: 1.528 min Scan# 445
Delta R.T. -0.000 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

Tgt Ion: 50 Resp: 15355
Ion Ratio Lower Upper
50 100
52 31.3 25.9 38.9

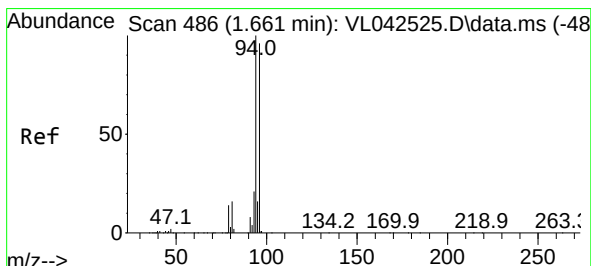
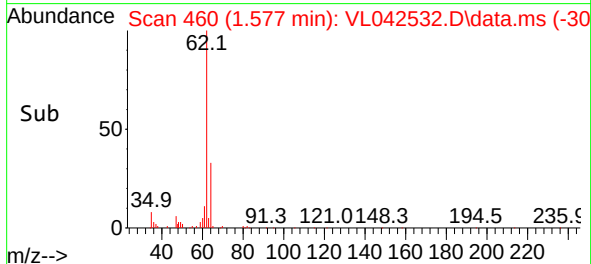
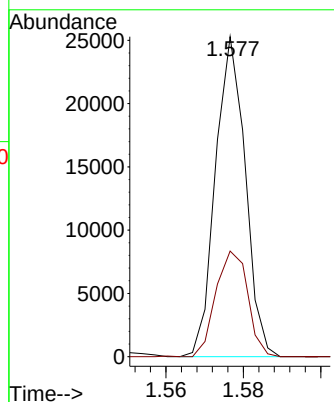
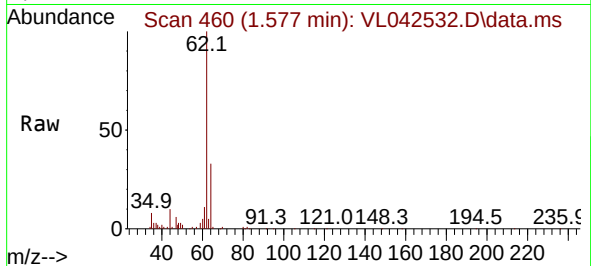




#5
 Vinyl Chloride
 Concen: 1.930 ppbv
 RT: 1.577 min Scan# 459
 Delta R.T. 0.003 min
 Lab File: VL042532.D
 Acq: 12 May 2025 12:58

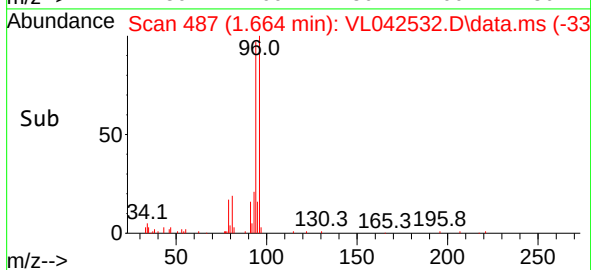
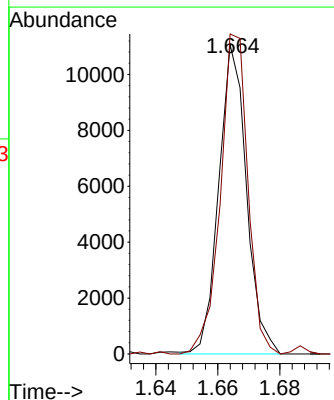
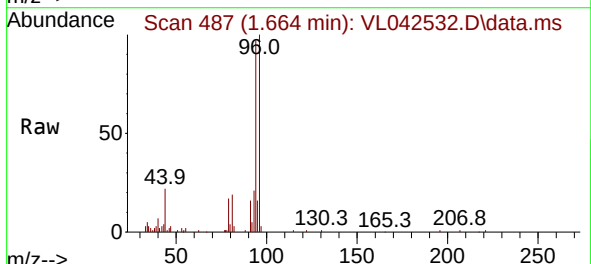
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

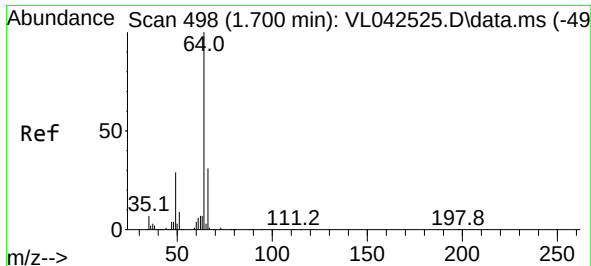
Tgt Ion: 62 Resp: 13527
 Ion Ratio Lower Upper
 62 100
 64 33.0 26.5 39.7



#6
 Bromomethane
 Concen: 2.068 ppbv
 RT: 1.664 min Scan# 487
 Delta R.T. 0.003 min
 Lab File: VL042532.D
 Acq: 12 May 2025 12:58

Tgt Ion: 94 Resp: 6881
 Ion Ratio Lower Upper
 94 100
 96 103.4 76.9 115.3

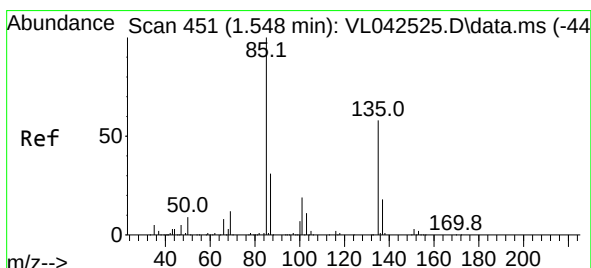
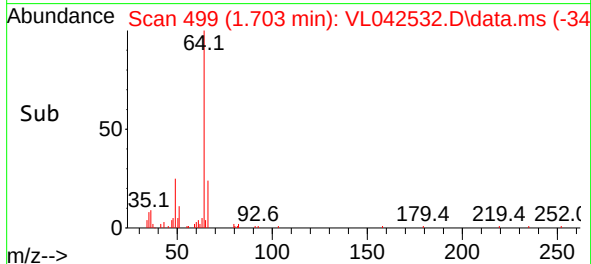
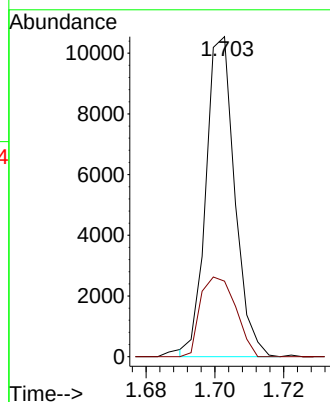
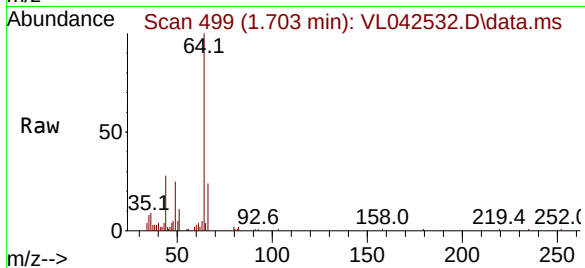




#7
Chloroethane
Concen: 2.220 ppbv
RT: 1.703 min Scan# 499
Delta R.T. 0.003 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

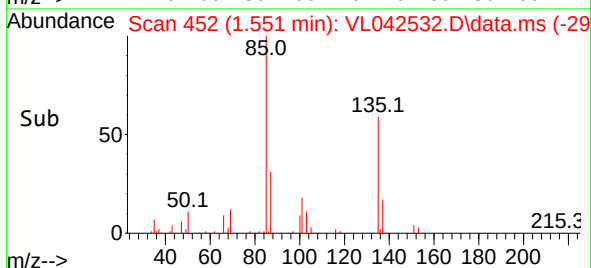
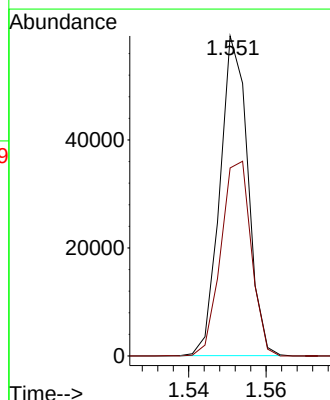
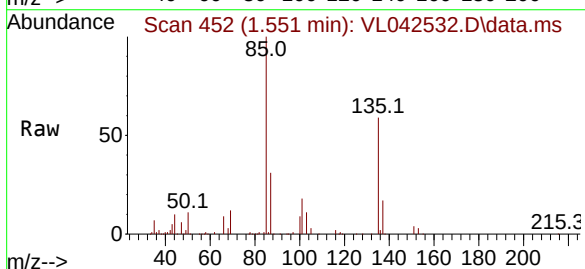
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

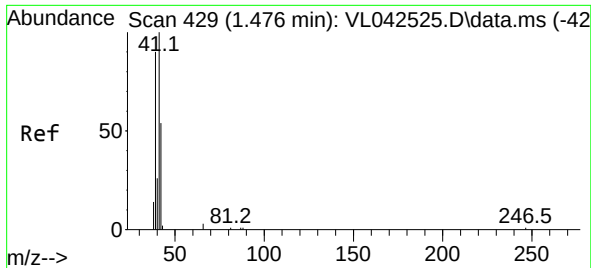
Tgt Ion: 64 Resp: 6123
Ion Ratio Lower Upper
64 100
66 23.6 25.1 37.7#



#8
Dichlorotetrafluoroethane
Concen: 2.054 ppbv
RT: 1.551 min Scan# 452
Delta R.T. 0.003 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

Tgt Ion: 85 Resp: 29662
Ion Ratio Lower Upper
85 100
135 66.6 51.8 77.8





#9

Propene

Concen: 0.923 ppbv

RT: 1.479 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

Instrument :

MSVOA_L

ClientSampleId :

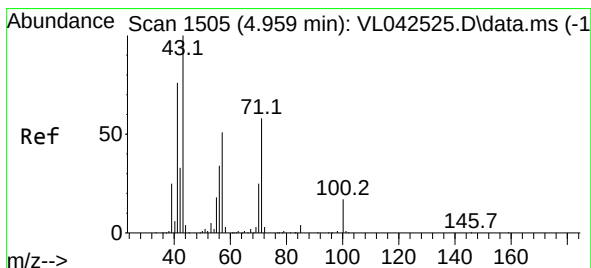
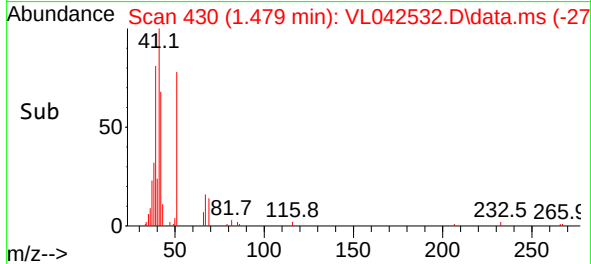
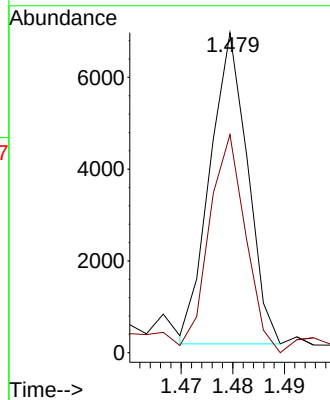
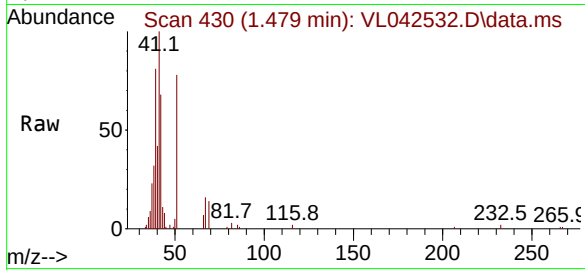
VSTDICC002

Tgt Ion: 41 Resp: 3429

Ion Ratio Lower Upper

41 100

42 86.6 4.1 6.1#



#10

Heptane

Concen: 1.991 ppbv

RT: 4.975 min Scan# 1510

Delta R.T. 0.016 min

Lab File: VL042532.D

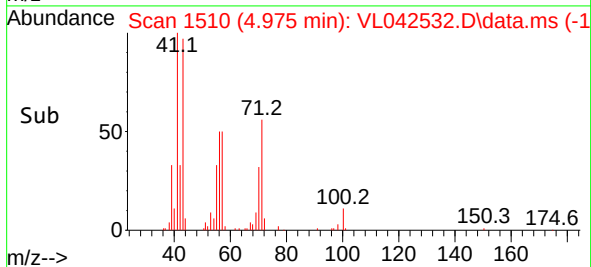
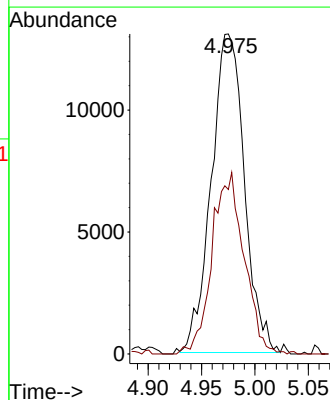
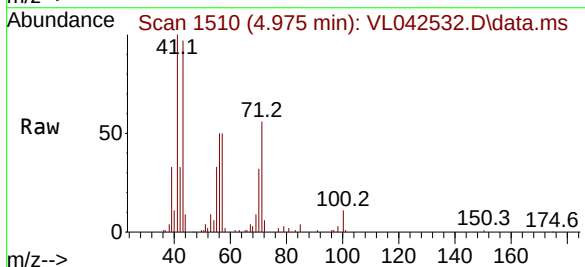
Acq: 12 May 2025 12:58

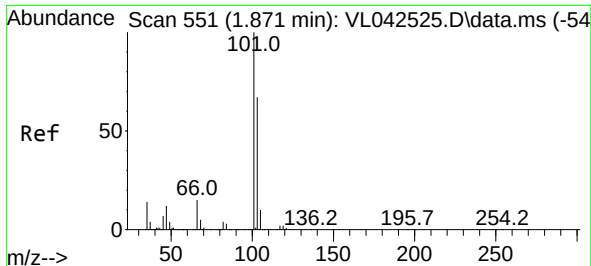
Tgt Ion: 43 Resp: 28195

Ion Ratio Lower Upper

43 100

57 55.0 42.1 63.1

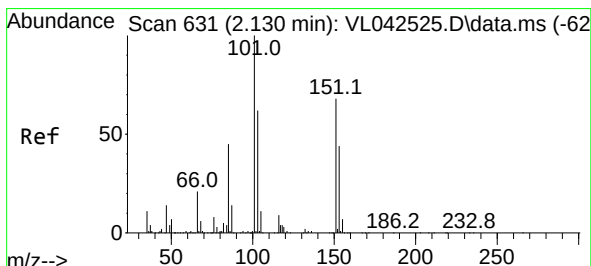
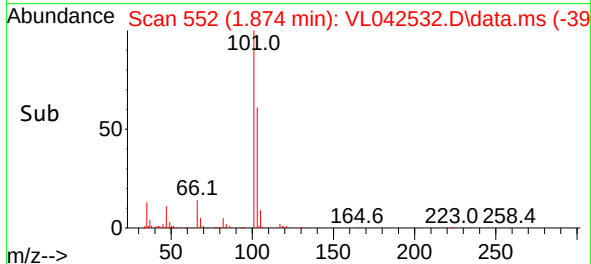
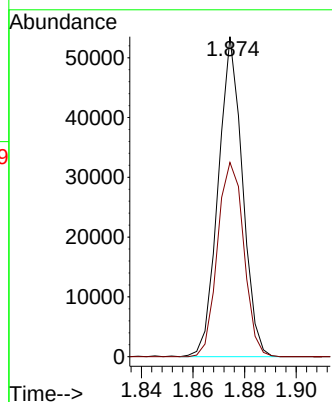
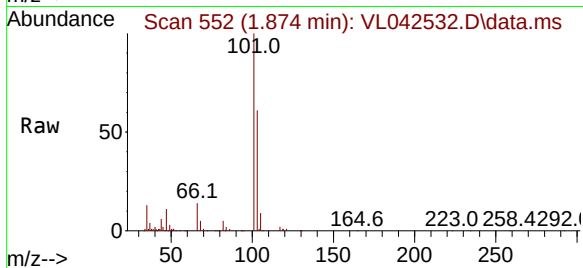




#11
 Trichlorofluoromethane
 Concen: 2.161 ppbv
 RT: 1.874 min Scan# 551
 Delta R.T. 0.003 min
 Lab File: VL042532.D
 Acq: 12 May 2025 12:58

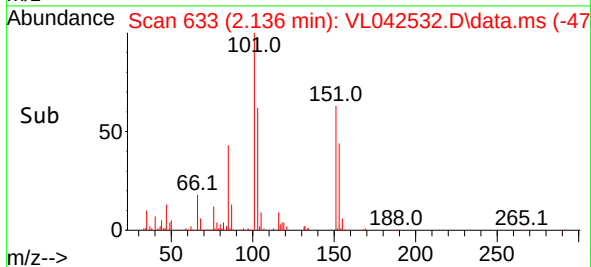
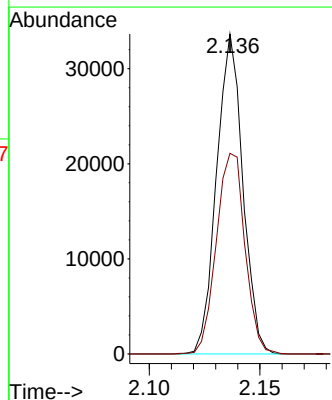
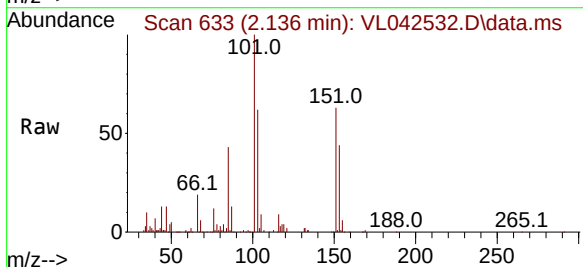
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

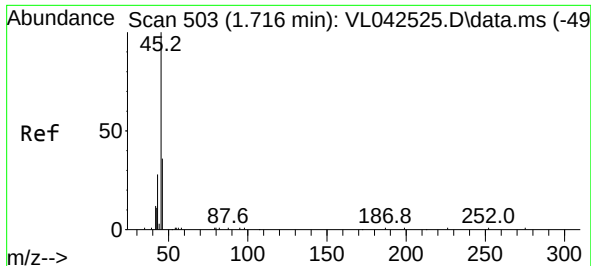
Tgt Ion:101 Resp: 34879
 Ion Ratio Lower Upper
 101 100
 103 60.7 53.8 80.6



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 2.141 ppbv
 RT: 2.136 min Scan# 633
 Delta R.T. 0.006 min
 Lab File: VL042532.D
 Acq: 12 May 2025 12:58

Tgt Ion:101 Resp: 27757
 Ion Ratio Lower Upper
 101 100
 151 68.4 57.8 86.8

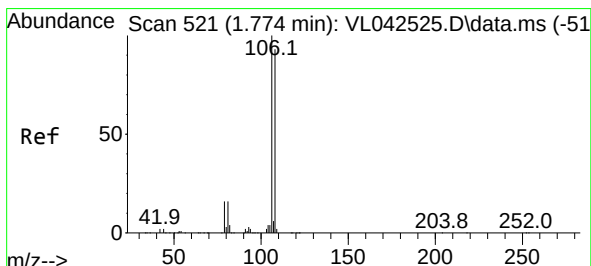
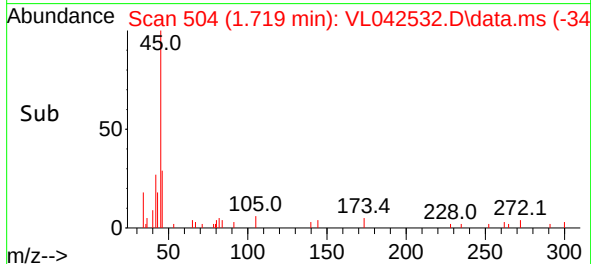
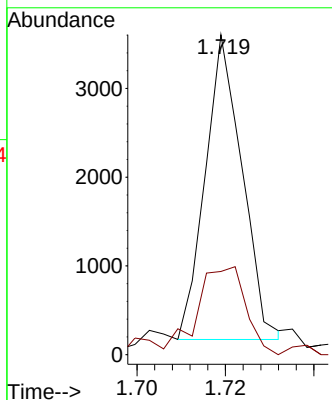
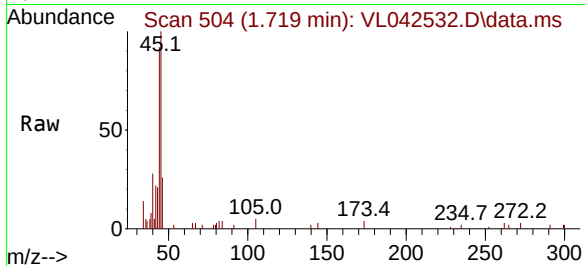




#13
Ethanol
Concen: 1.956 ppbv
RT: 1.719 min Scan# 503
Delta R.T. 0.003 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

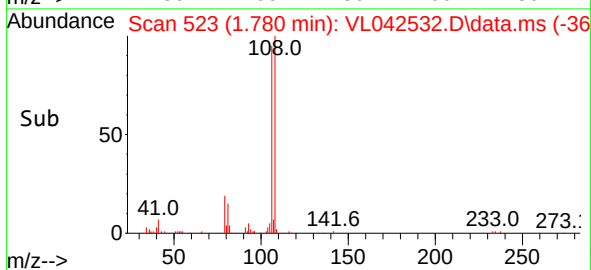
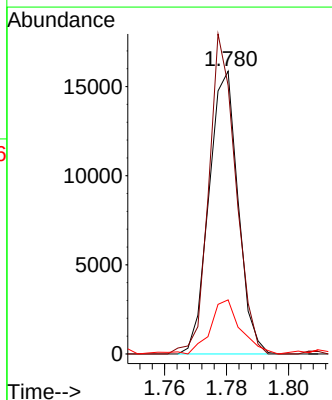
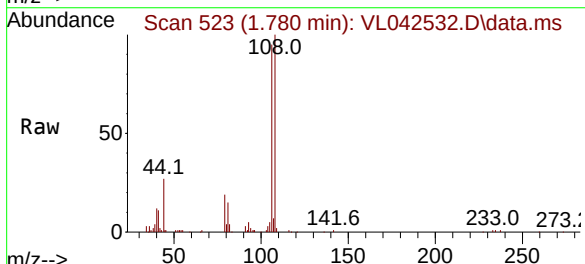
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

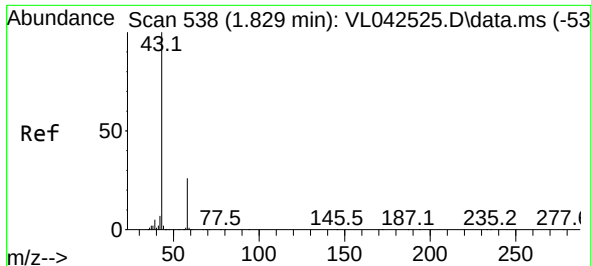
Tgt Ion: 45 Resp: 1983
Ion Ratio Lower Upper
45 100
46 43.7 14.8 59.4



#14
Bromoethene
Concen: 2.192 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.006 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

Tgt Ion:108 Resp: 10359
Ion Ratio Lower Upper
108 100
106 104.9 87.4 131.2
79 22.4 15.1 22.7





#15

Acetone

Concen: 2.269 ppbv

RT: 1.832 min Scan# 51

Delta R.T. 0.003 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

Instrument :

MSVOA_L

ClientSampleId :

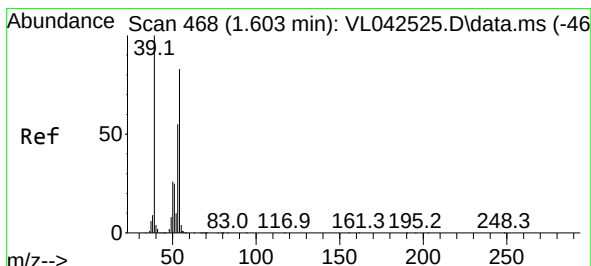
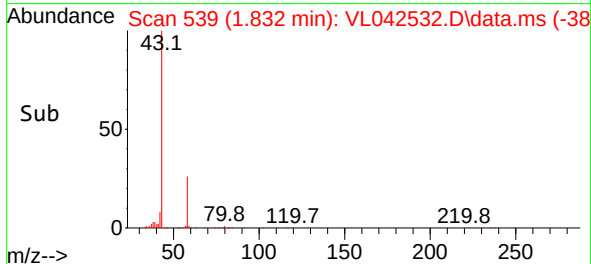
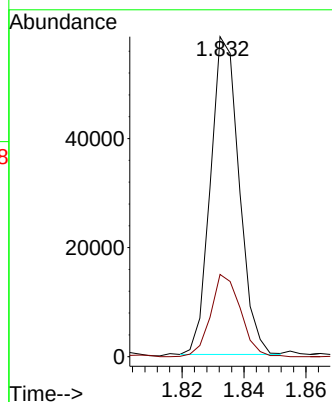
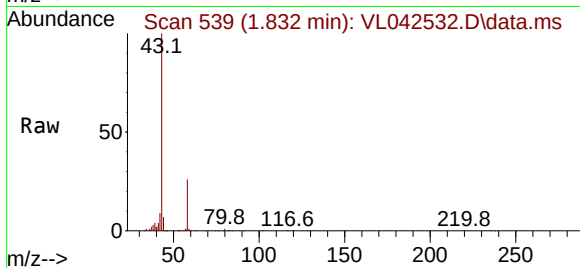
VSTDIC002

Tgt Ion: 43 Resp: 37463

Ion Ratio Lower Upper

43 100

58 27.4 21.3 31.9



#16

1,3-Butadiene

Concen: 2.132 ppbv

RT: 1.606 min Scan# 469

Delta R.T. 0.003 min

Lab File: VL042532.D

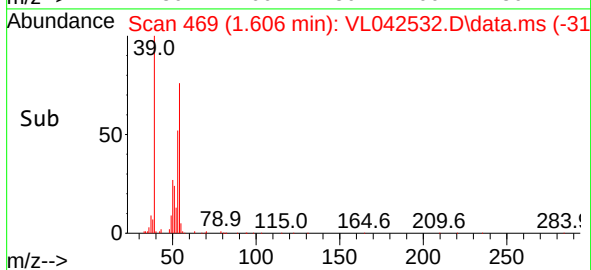
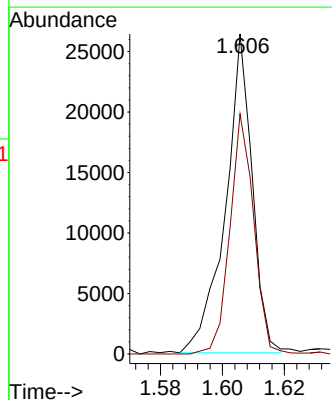
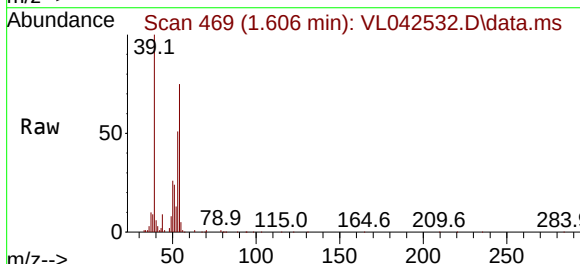
Acq: 12 May 2025 12:58

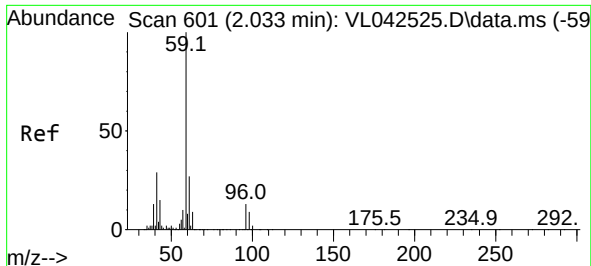
Tgt Ion: 39 Resp: 15833

Ion Ratio Lower Upper

39 100

54 67.6 57.8 86.6





#17

tert-Butyl alcohol

Concen: 2.026 ppbv

RT: 2.039 min Scan# 601

Delta R.T. 0.006 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

Instrument :

MSVOA_L

ClientSampleId :

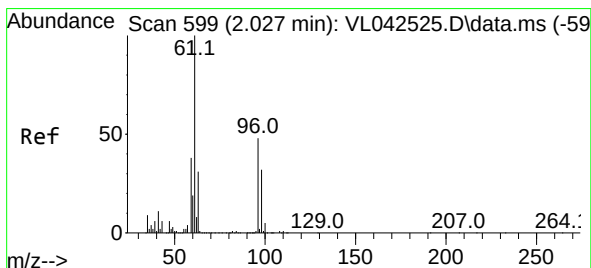
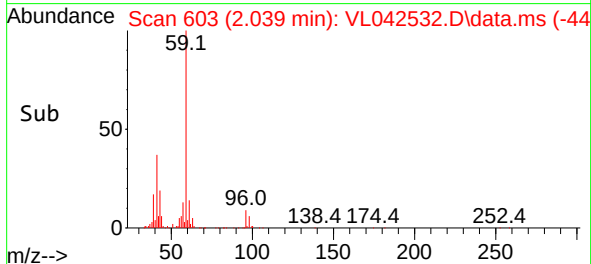
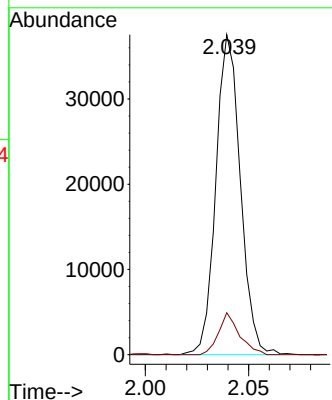
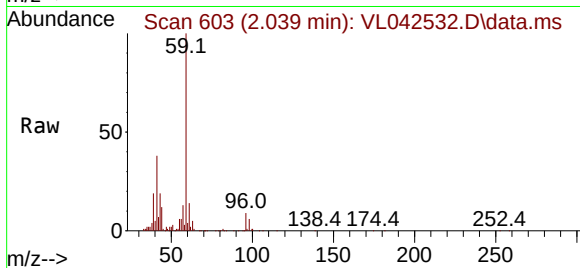
VSTDIC002

Tgt Ion: 59 Resp: 30915

Ion Ratio Lower Upper

59 100

57 11.2 8.2 12.4



#18

1,1-Dichloroethene

Concen: 2.073 ppbv

RT: 2.033 min Scan# 601

Delta R.T. 0.006 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

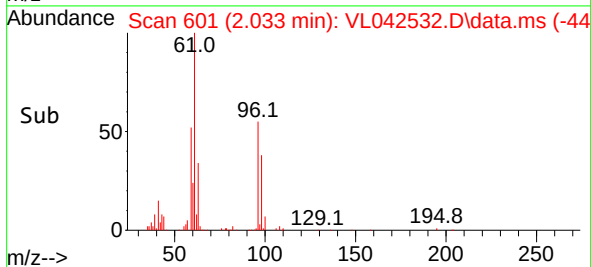
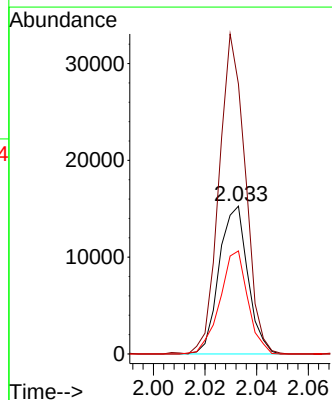
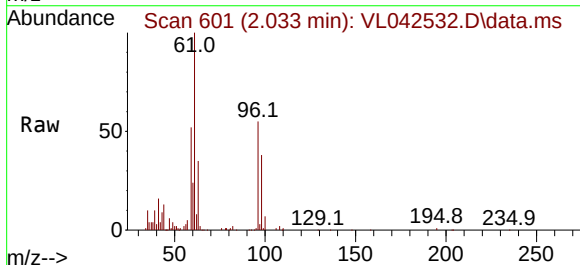
Tgt Ion: 96 Resp: 11781

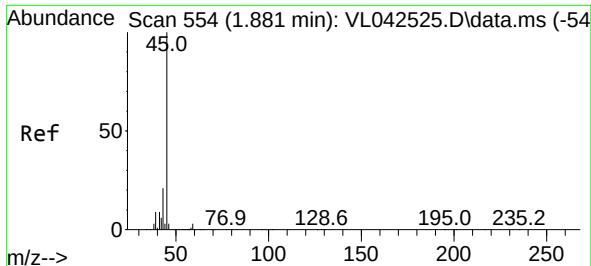
Ion Ratio Lower Upper

96 100

61 182.0 165.0 247.4

98 69.7 52.6 79.0

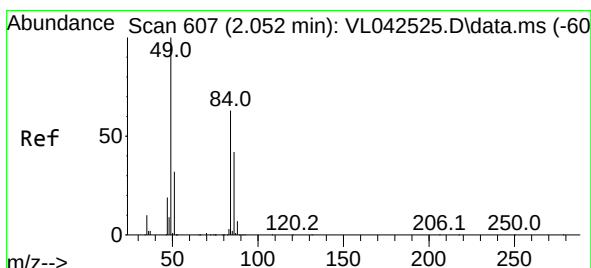
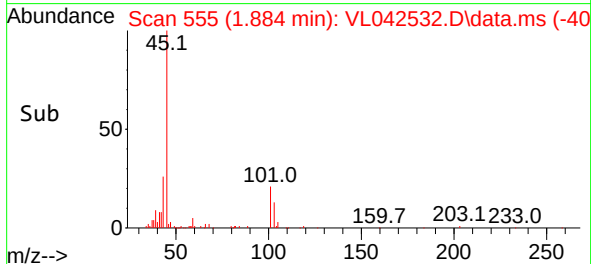
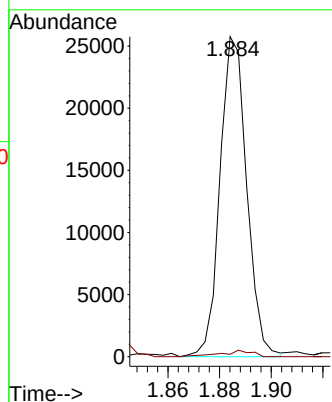
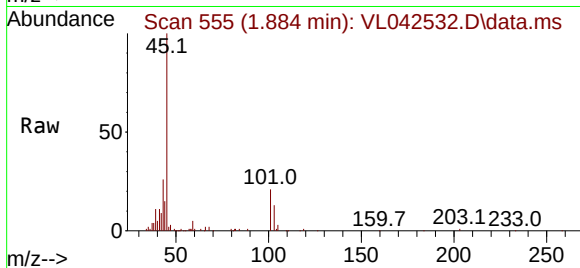




#19
Isopropyl Alcohol
Concen: 2.062 ppbv
RT: 1.884 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

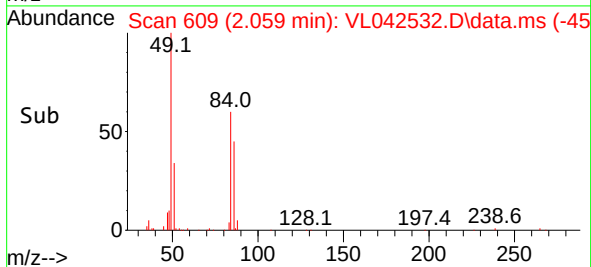
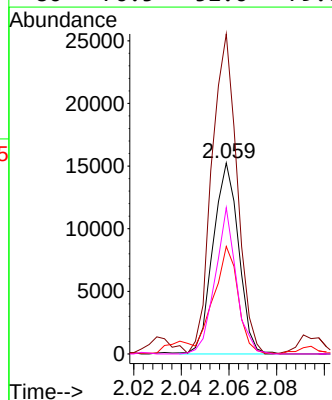
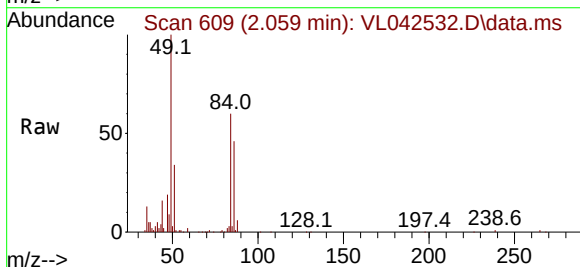
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

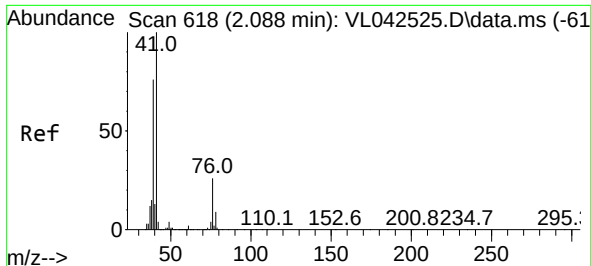
Tgt Ion: 45 Resp: 18501
Ion Ratio Lower Upper
45 100
58 0.0 1.5 2.3#



#20
Methylene Chloride
Concen: 1.975 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.006 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

Tgt Ion: 84 Resp: 11357
Ion Ratio Lower Upper
84 100
49 167.0 128.2 192.4
51 56.3 41.7 62.5
86 76.5 52.6 79.0

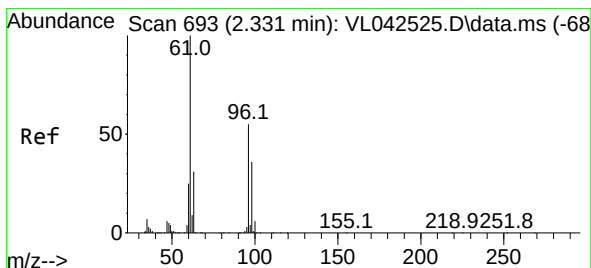
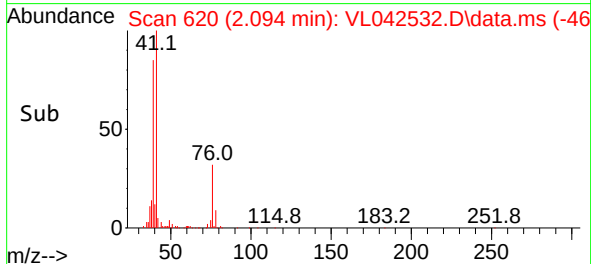
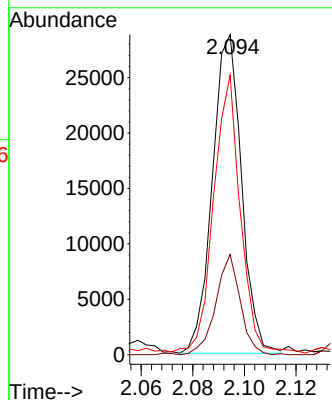
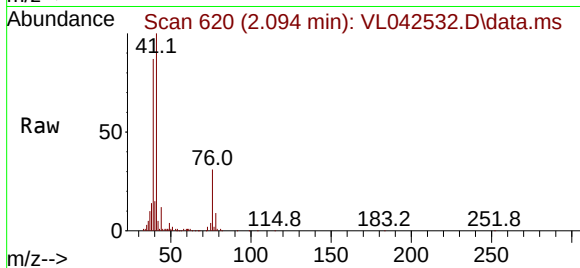




#21
 Allyl Chloride
 Concen: 2.064 ppbv
 RT: 2.094 min Scan# 618
 Delta R.T. 0.006 min
 Lab File: VL042532.D
 Acq: 12 May 2025 12:58

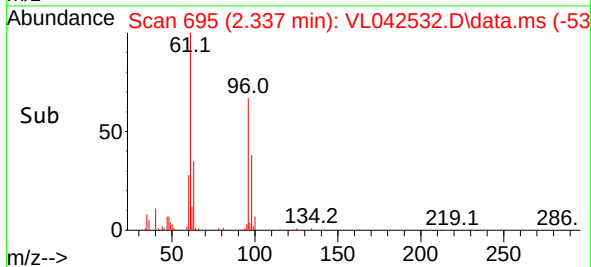
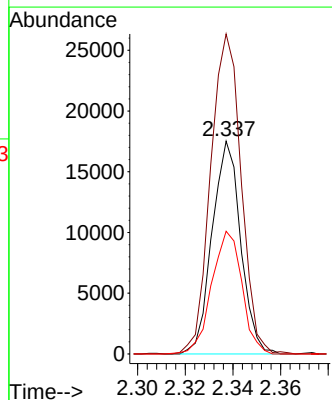
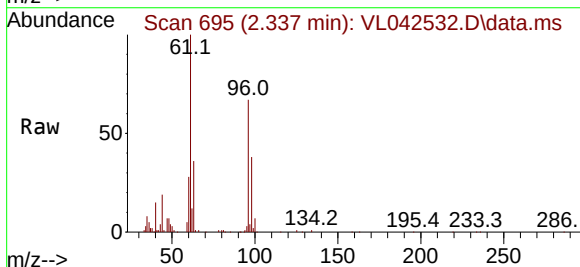
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

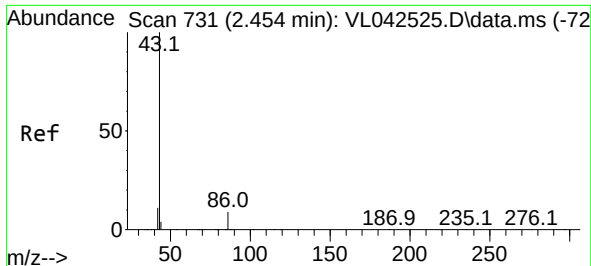
Tgt Ion: 41 Resp: 22565
 Ion Ratio Lower Upper
 41 100
 76 26.5 22.0 33.0
 39 78.9 59.5 89.3



#22
 trans-1,2-Dichloroethene
 Concen: 2.193 ppbv
 RT: 2.337 min Scan# 695
 Delta R.T. 0.006 min
 Lab File: VL042532.D
 Acq: 12 May 2025 12:58

Tgt Ion: 96 Resp: 14573
 Ion Ratio Lower Upper
 96 100
 61 149.6 145.9 218.9
 98 57.7 52.2 78.4

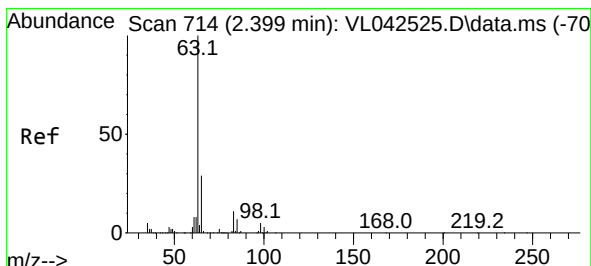
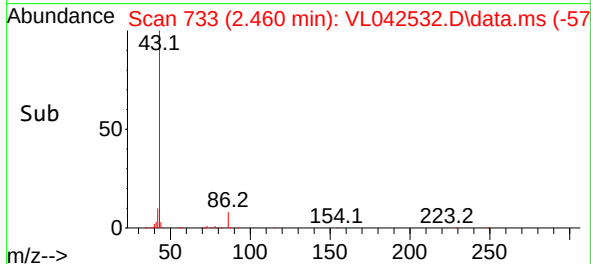
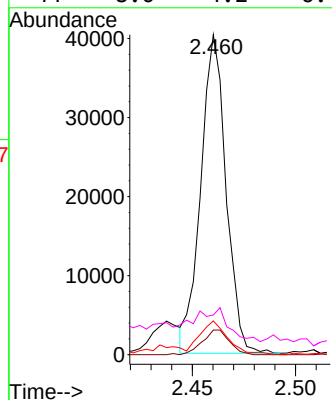
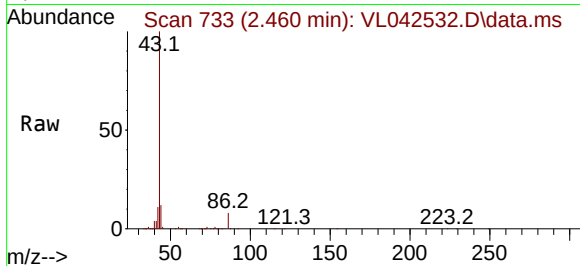




#23
 Vinyl Acetate
 Concen: 1.985 ppbv
 RT: 2.460 min Scan# 716
 Delta R.T. 0.006 min
 Lab File: VL042532.D
 Acq: 12 May 2025 12:58

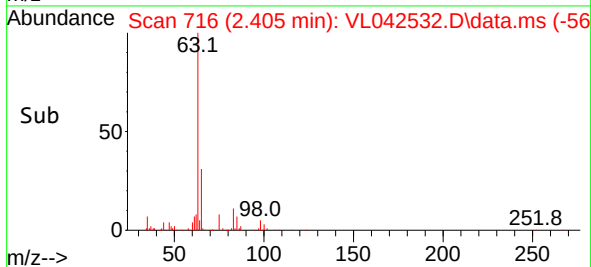
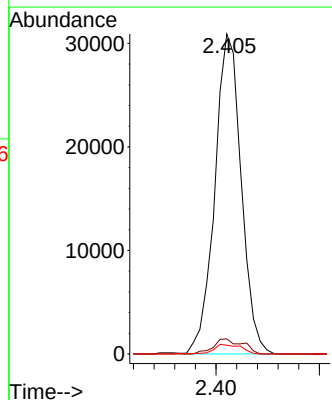
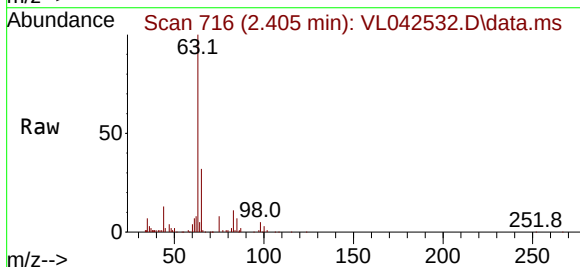
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

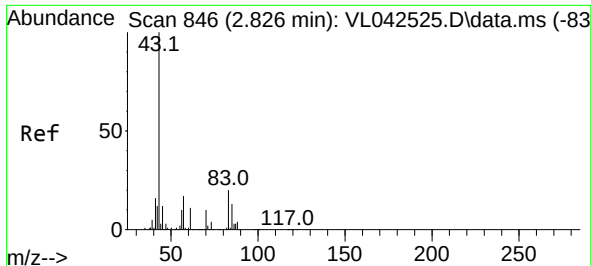
Tgt Ion: 43	Resp: 34320
Ion Ratio	Lower Upper
43 100	
86 7.7	6.8 10.2
42 10.6	8.8 13.2
44 8.0	4.2 6.4#



#24
 1,1-Dichloroethane
 Concen: 2.132 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. 0.006 min
 Lab File: VL042532.D
 Acq: 12 May 2025 12:58

Tgt Ion: 63	Resp: 27421
Ion Ratio	Lower Upper
63 100	
98 4.7	2.6 8.0
100 2.8	1.4 4.2

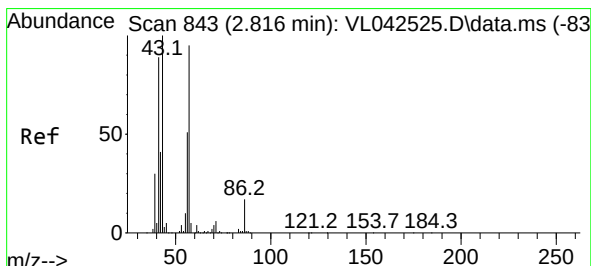
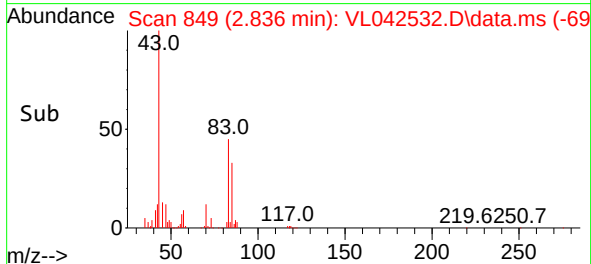
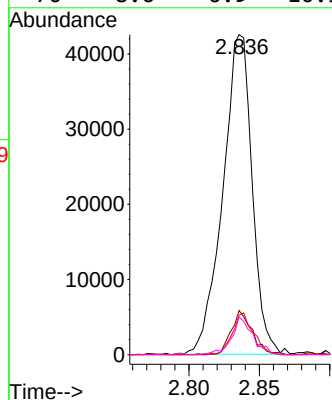
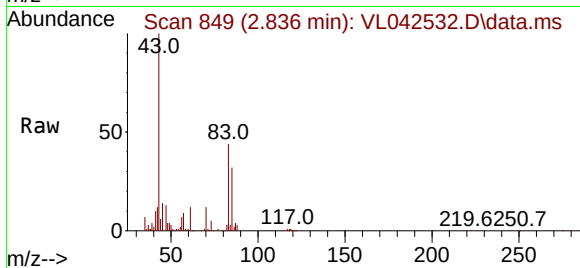




#25
Ethyl Acetate
Concen: 2.124 ppbv
RT: 2.836 min Scan# 846
Delta R.T. 0.010 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

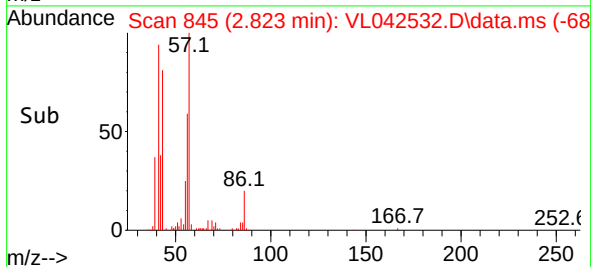
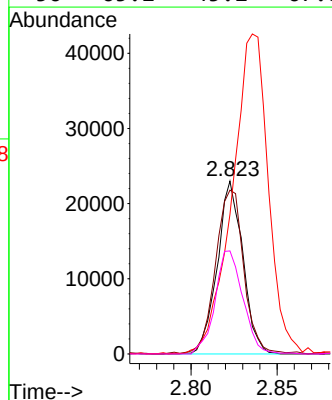
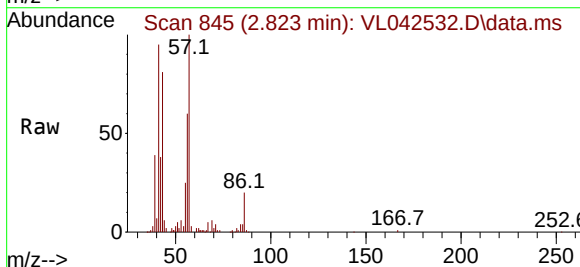
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

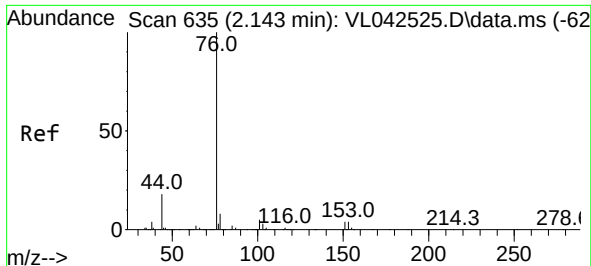
Tgt Ion:	43	Resp:	61595
Ion	Ratio	Lower	Upper
43	100		
45	10.0	7.9	11.9
61	9.3	7.1	10.7
70	8.6	6.9	10.3



#26
Hexane
Concen: 1.992 ppbv
RT: 2.823 min Scan# 845
Delta R.T. 0.006 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

Tgt Ion:	57	Resp:	23715
Ion	Ratio	Lower	Upper
57	100		
41	106.9	76.1	114.1
43	262.3	188.9	283.3
56	65.2	45.2	67.8





#27

Carbon Disulfide

Concen: 2.065 ppbv

RT: 2.146 min Scan# 61

Delta R.T. 0.003 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

Instrument :

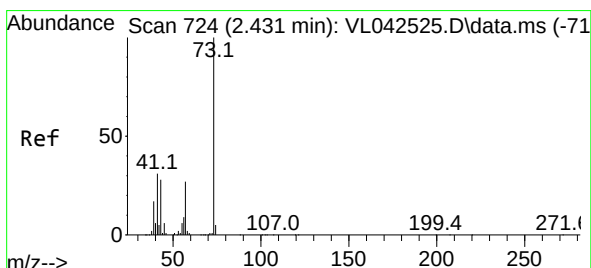
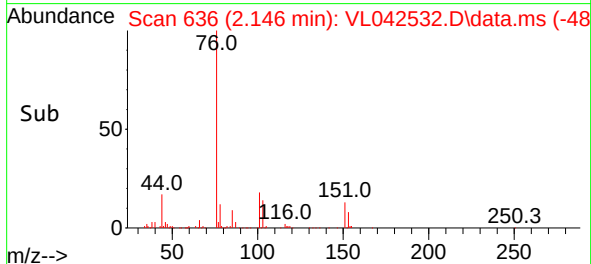
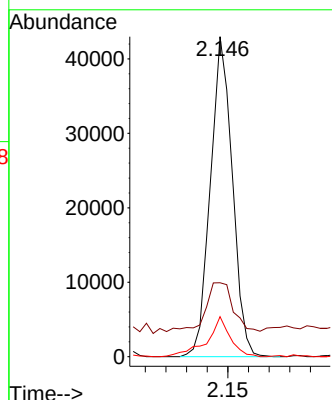
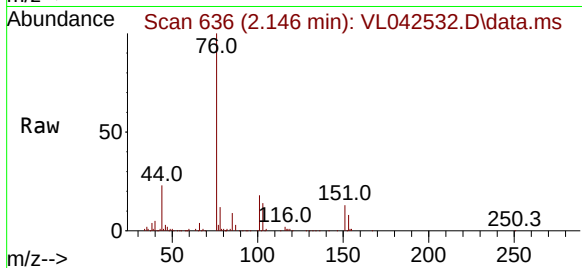
MSVOA_L

ClientSampleId :

VSTDICC002

Tgt Ion: 76 Resp: 31735

Ion	Ratio	Lower	Upper
76	100		
44	23.9	17.1	25.7
78	13.7	8.6	12.8



#28

Methyl tert-Butyl Ether

Concen: 2.030 ppbv

RT: 2.438 min Scan# 726

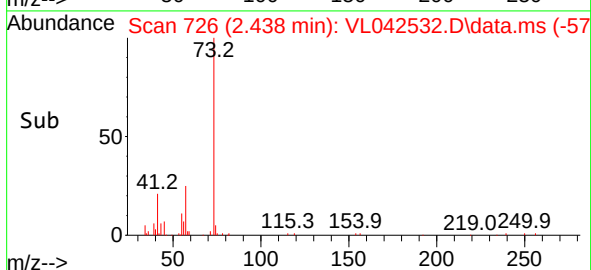
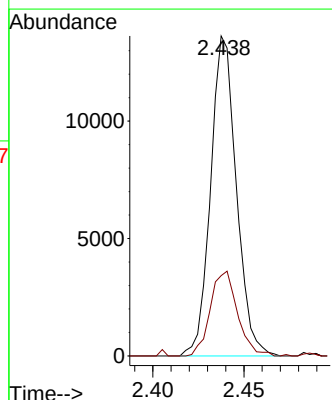
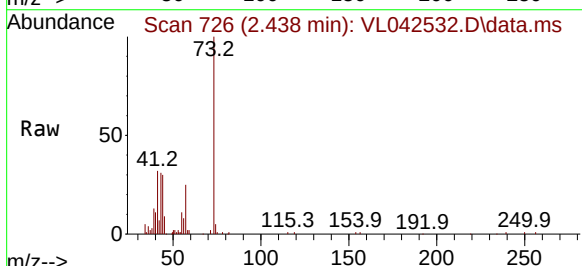
Delta R.T. 0.006 min

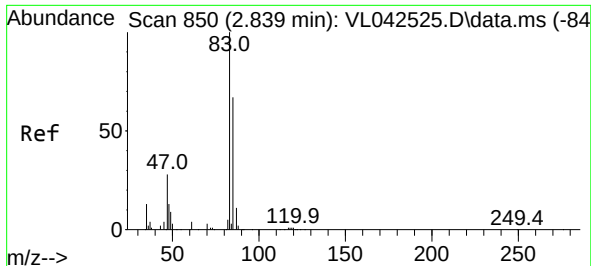
Lab File: VL042532.D

Acq: 12 May 2025 12:58

Tgt Ion: 73 Resp: 13425

Ion	Ratio	Lower	Upper
73	100		
57	28.4	20.3	30.5





#29

Chloroform

Concen: 2.098 ppbv

RT: 2.845 min Scan# 81

Delta R.T. 0.006 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

Instrument :

MSVOA_L

ClientSampleId :

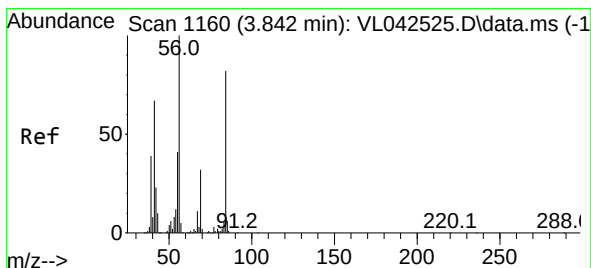
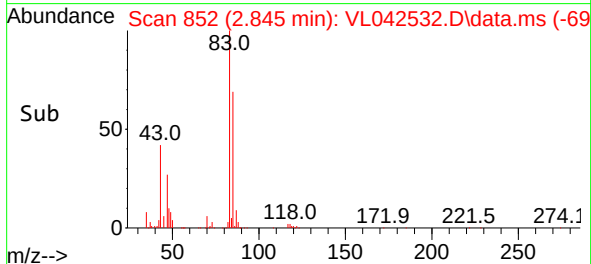
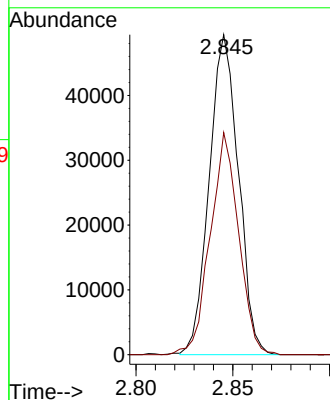
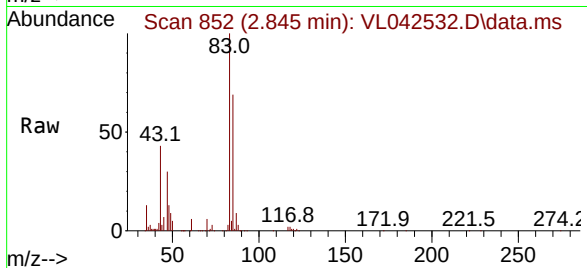
VSTDIC002

Tgt Ion: 83 Resp: 51800

Ion Ratio Lower Upper

83 100

85 69.4 53.5 80.3



#30

Cyclohexane

Concen: 1.936 ppbv

RT: 3.855 min Scan# 1164

Delta R.T. 0.013 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

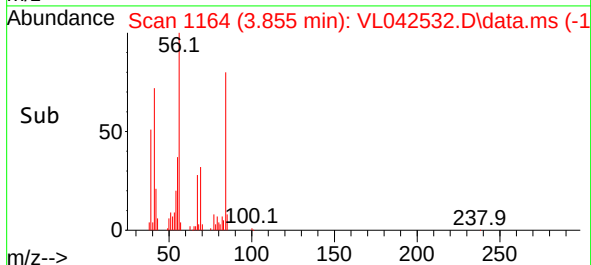
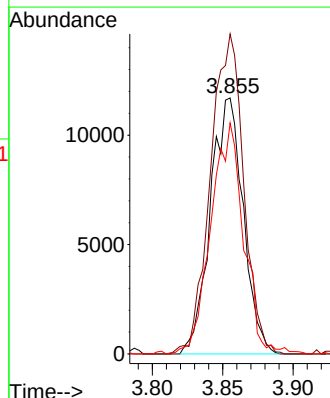
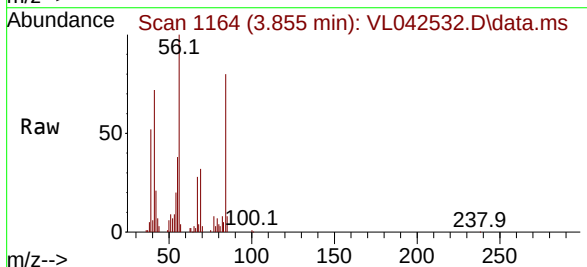
Tgt Ion: 84 Resp: 18925

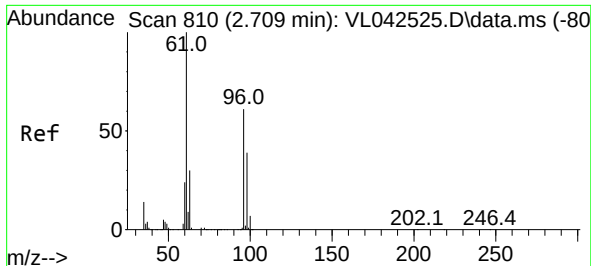
Ion Ratio Lower Upper

84 100

56 126.4 97.1 145.7

41 90.7 66.6 99.8

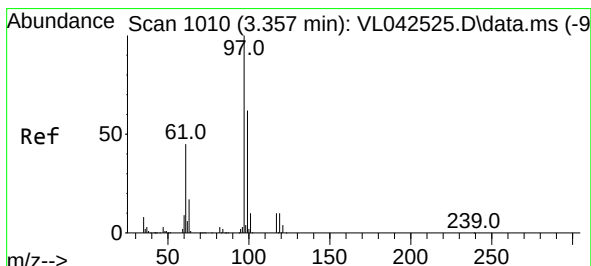
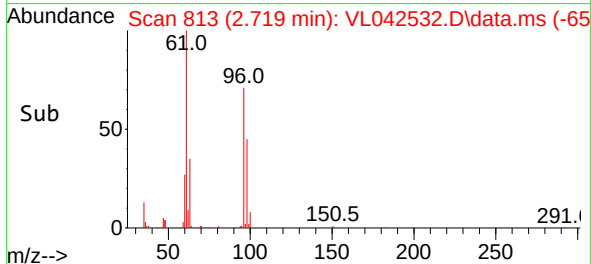
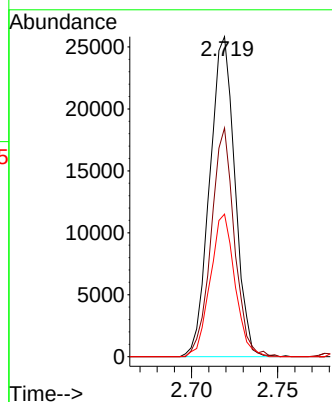
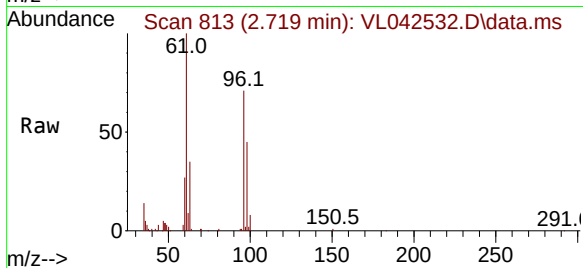




#31
 cis-1,2-Dichloroethene
 Concen: 1.955 ppbv
 RT: 2.719 min Scan# 810
 Delta R.T. 0.010 min
 Lab File: VL042532.D
 Acq: 12 May 2025 12:58

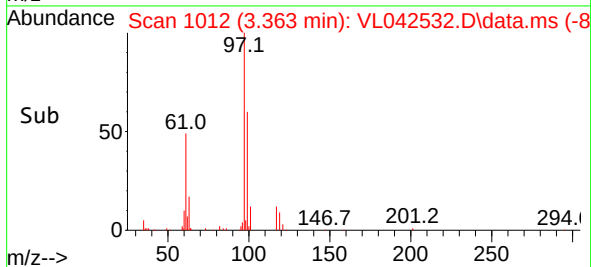
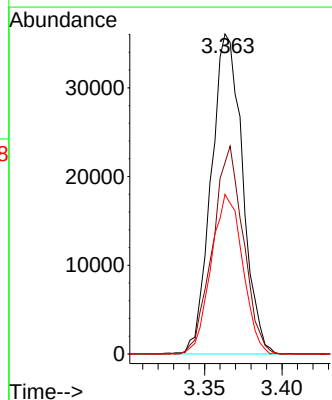
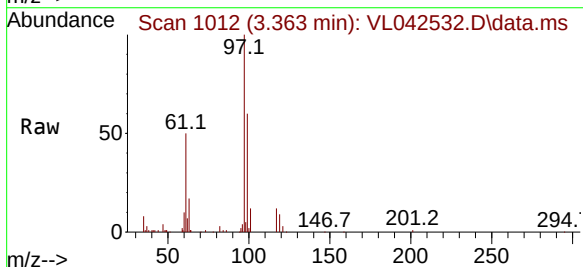
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

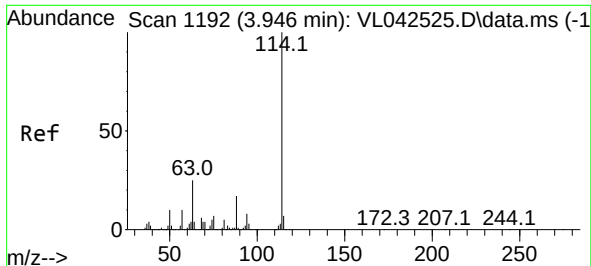
Tgt Ion: 61 Resp: 26277
 Ion Ratio Lower Upper
 61 100
 96 71.4 48.9 73.3
 98 44.5 31.4 47.2



#32
 1,1,1-Trichloroethane
 Concen: 2.033 ppbv
 RT: 3.363 min Scan# 1012
 Delta R.T. 0.006 min
 Lab File: VL042532.D
 Acq: 12 May 2025 12:58

Tgt Ion: 97 Resp: 50640
 Ion Ratio Lower Upper
 97 100
 99 63.6 50.1 75.1
 61 50.3 38.2 57.2

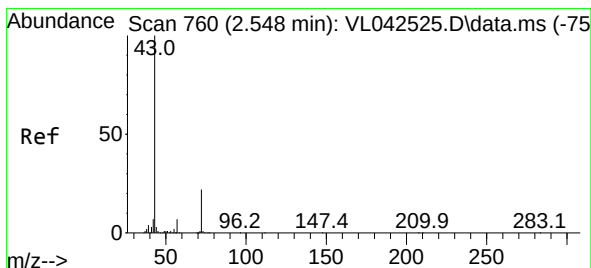
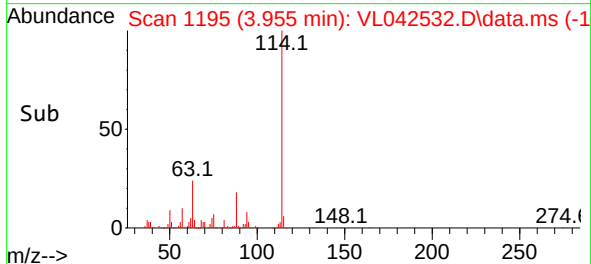
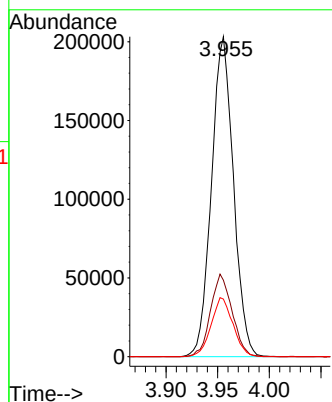
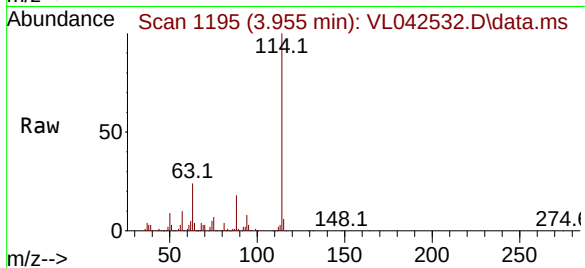




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. 0.010 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

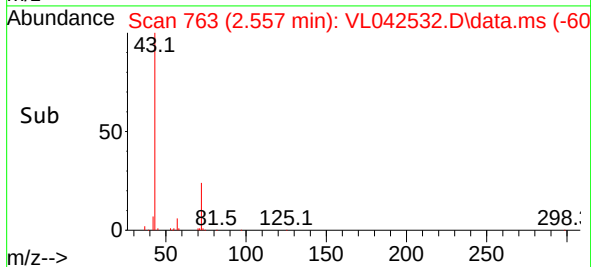
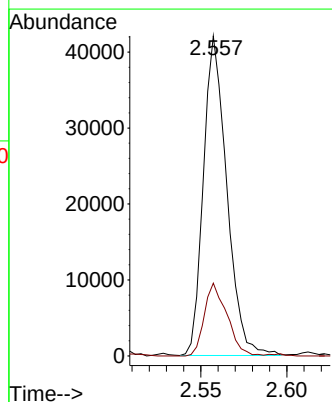
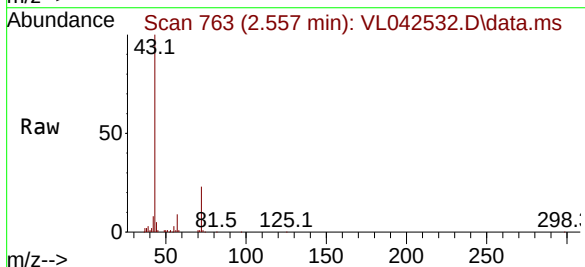
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

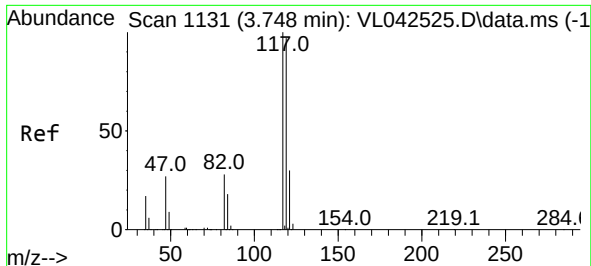
Tgt Ion:114 Resp: 300628
Ion Ratio Lower Upper
114 100
63 25.4 20.4 30.6
88 18.4 14.5 21.7



#34
2-Butanone
Concen: 2.011 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.010 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

Tgt Ion: 43 Resp: 39851
Ion Ratio Lower Upper
43 100
72 22.5 18.7 28.1

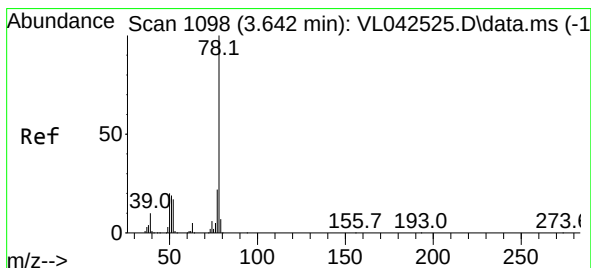
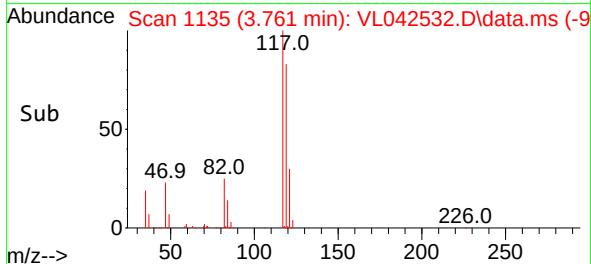
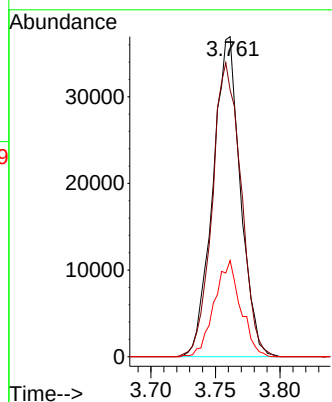
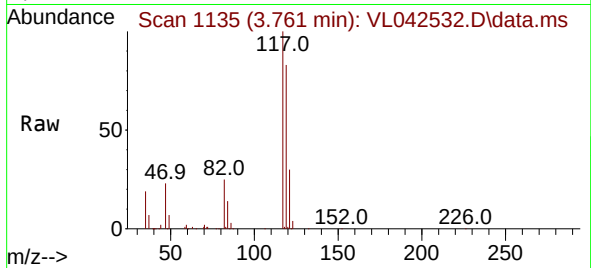




#35
Carbon Tetrachloride
Concen: 2.030 ppbv
RT: 3.761 min Scan# 1131
Delta R.T. 0.013 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

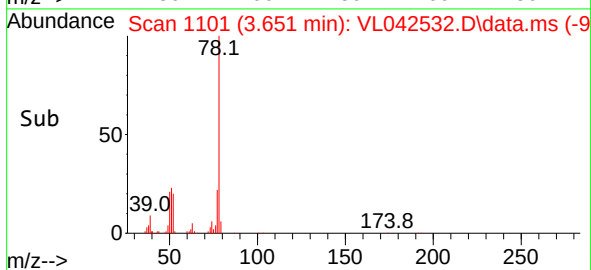
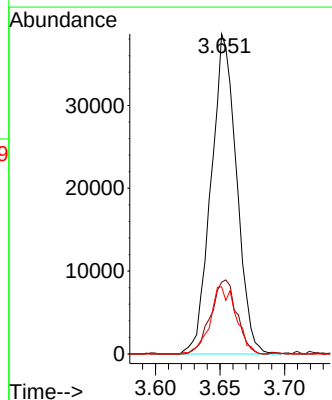
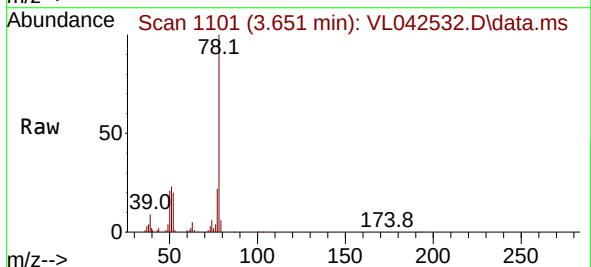
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

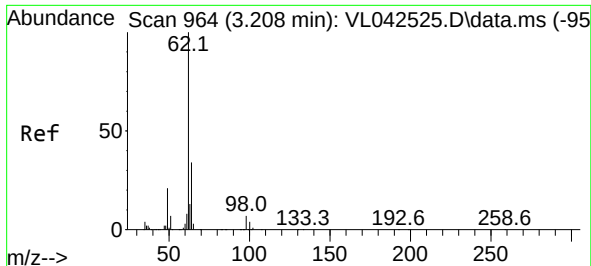
Tgt Ion:117 Resp: 54873
Ion Ratio Lower Upper
117 100
119 83.4 77.7 116.5
121 30.1 24.0 36.0



#36
Benzene
Concen: 1.987 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. 0.010 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

Tgt Ion: 78 Resp: 52942
Ion Ratio Lower Upper
78 100
77 22.5 17.4 26.2
50 21.0 16.3 24.5





#37

1,2-Dichloroethane

Concen: 2.103 ppbv

RT: 3.214 min Scan# 9

Delta R.T. 0.006 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

Instrument :

MSVOA_L

ClientSampleId :

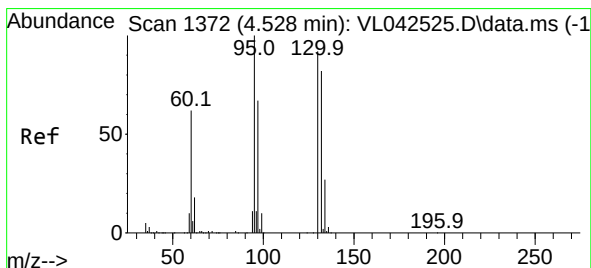
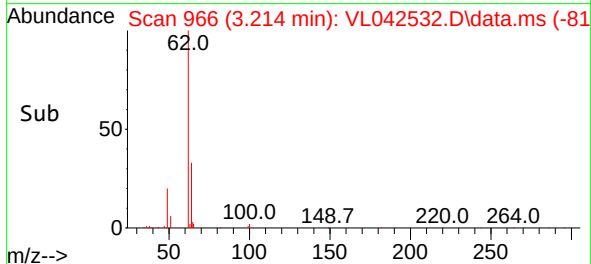
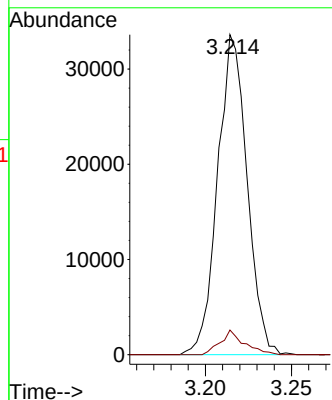
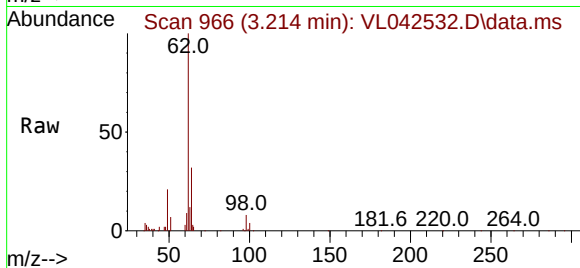
VSTDIC002

Tgt Ion: 62 Resp: 39974

Ion Ratio Lower Upper

62 100

98 6.2 5.0 7.4



#38

Trichloroethene

Concen: 1.182 ppbv

RT: 4.541 min Scan# 1376

Delta R.T. 0.013 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

Tgt Ion:130 Resp: 13452

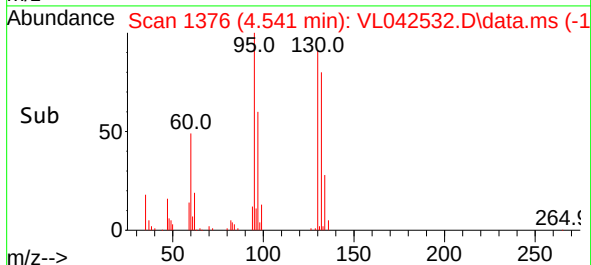
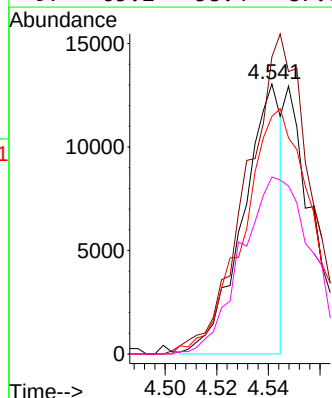
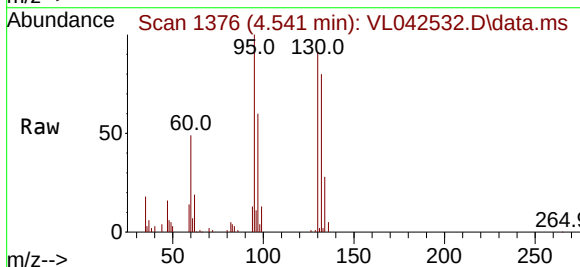
Ion Ratio Lower Upper

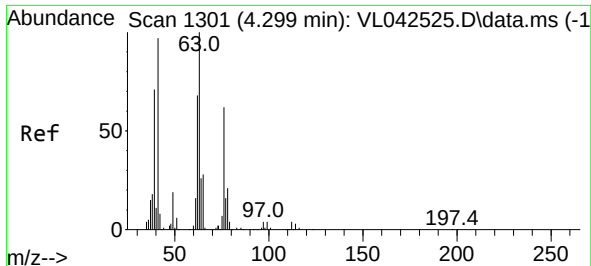
130 100

95 107.8 87.0 130.4

132 85.5 71.1 106.7

97 65.2 58.4 87.6





#39

1,2-Dichloropropane

Concen: 1.920 ppbv

RT: 4.312 min Scan# 11

Delta R.T. 0.013 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

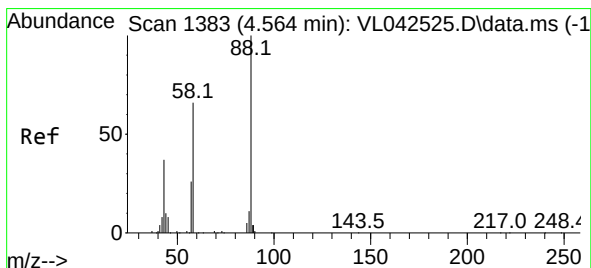
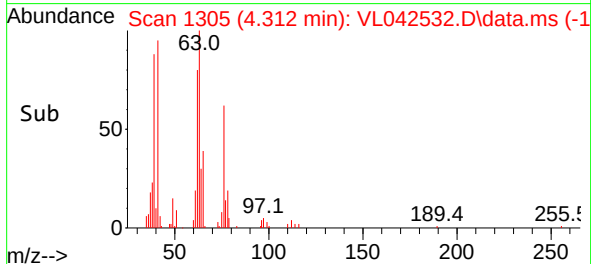
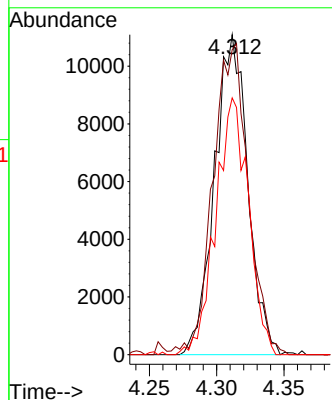
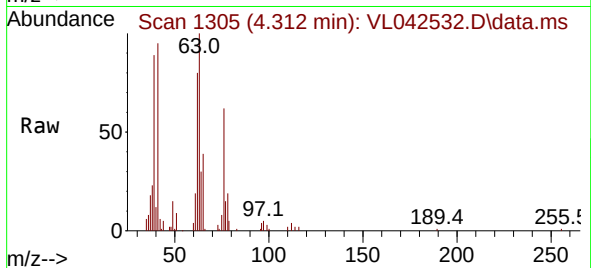
Tgt Ion: 63 Resp: 19038

Ion Ratio Lower Upper

63 100

41 93.7 77.5 116.3

62 80.2 54.6 82.0



#40

1,4-Dioxane

Concen: 1.231 ppbv

RT: 4.590 min Scan# 1391

Delta R.T. 0.026 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

Tgt Ion: 88 Resp: 4869

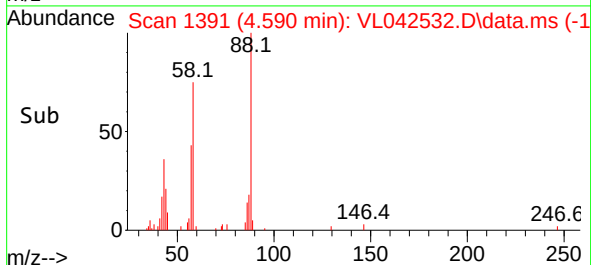
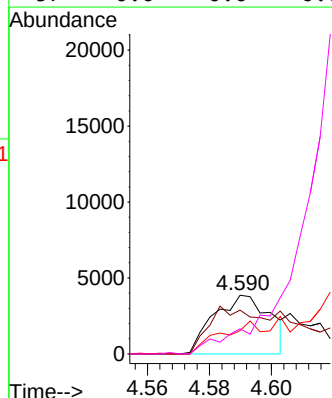
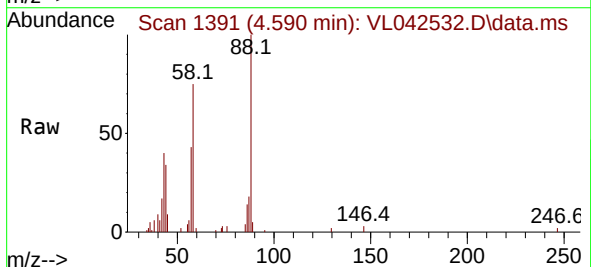
Ion Ratio Lower Upper

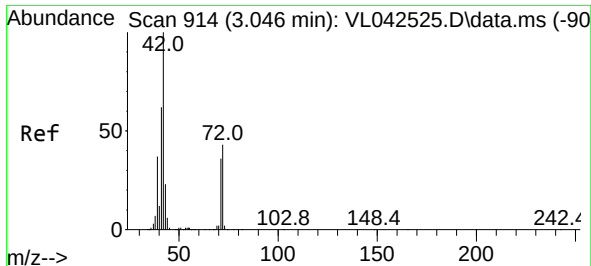
88 100

58 141.0 58.2 87.2#

43 0.0 27.9 41.9#

57 0.0 0.0 0.0





#41

Tetrahydrofuran

Concen: 1.968 ppbv

RT: 3.059 min Scan# 914

Delta R.T. 0.013 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

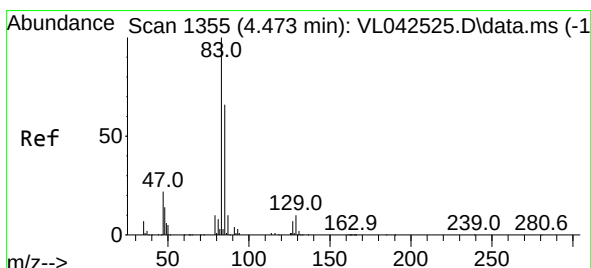
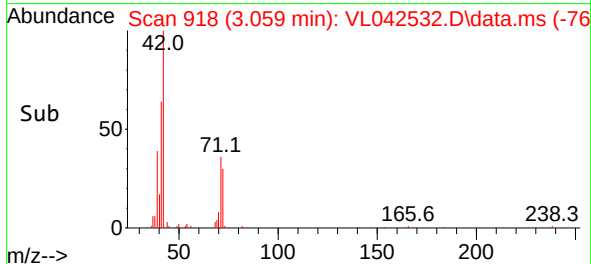
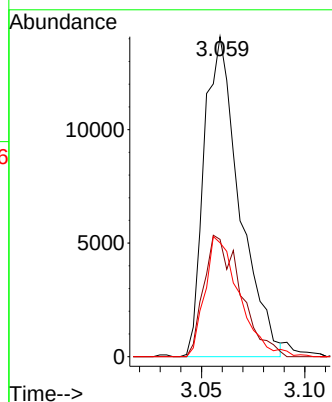
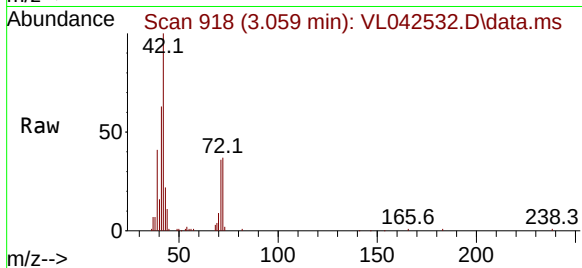
Tgt Ion: 42 Resp: 16817

Ion Ratio Lower Upper

42 100

72 39.5 32.7 49.1

71 36.5 30.4 45.6



#42

Bromodichloromethane

Concen: 2.072 ppbv

RT: 4.490 min Scan# 1360

Delta R.T. 0.016 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

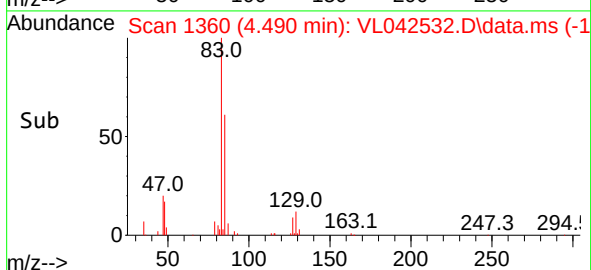
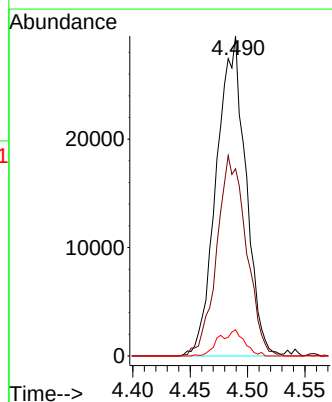
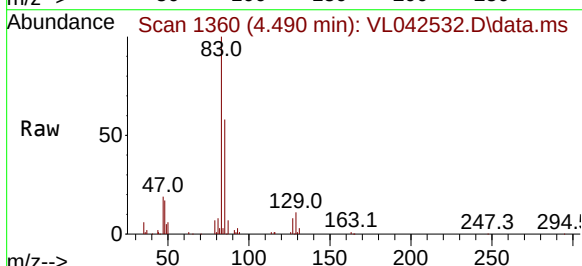
Tgt Ion: 83 Resp: 52451

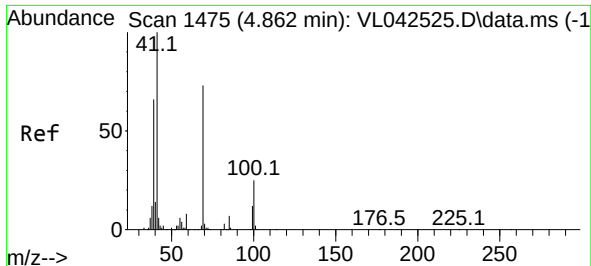
Ion Ratio Lower Upper

83 100

85 58.5 52.6 79.0

127 8.2 6.0 9.0

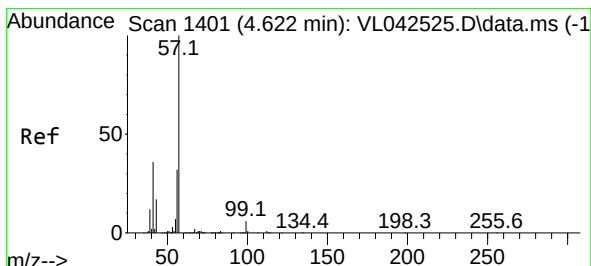
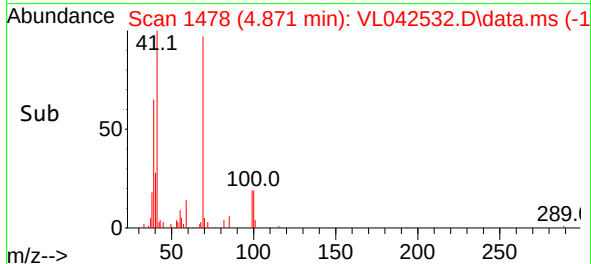
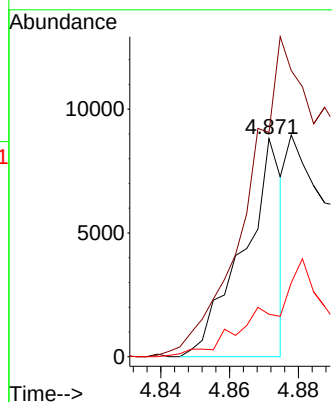
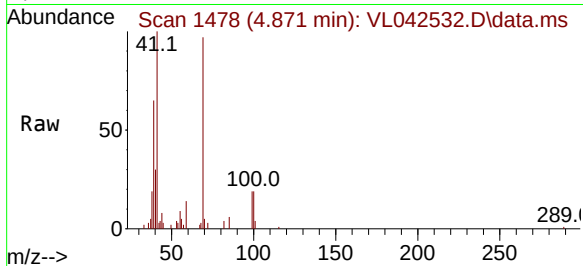




#43
Methyl Methacrylate
Concen: 0.773 ppbv
RT: 4.871 min Scan# 1475
Delta R.T. 0.010 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

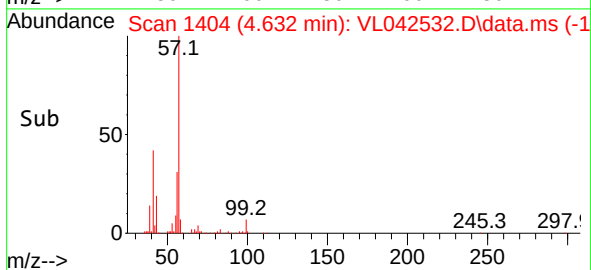
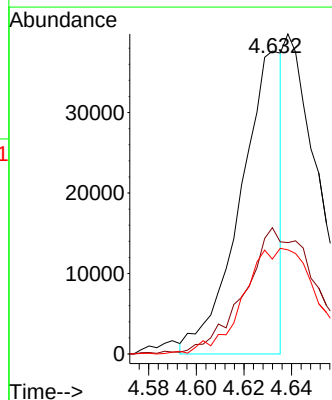
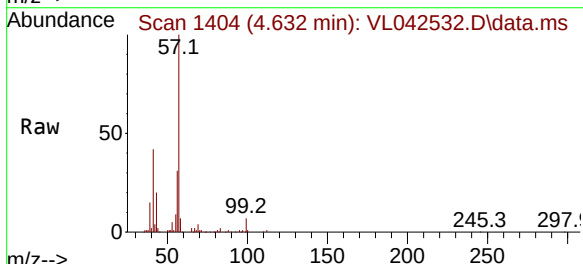
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

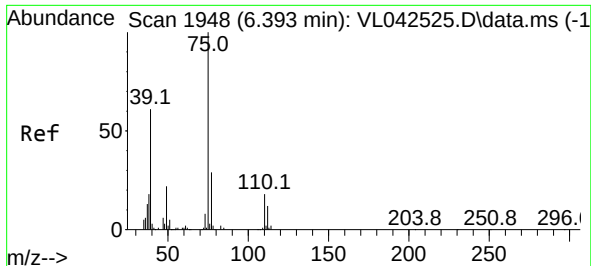
Tgt Ion: 69 Resp: 6876
Ion Ratio Lower Upper
69 100
41 0.0 119.9 179.9#
100 0.0 28.4 42.6#



#44
2,2,4-Trimethylpentane
Concen: 1.091 ppbv
RT: 4.632 min Scan# 1404
Delta R.T. 0.010 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

Tgt Ion: 57 Resp: 45642
Ion Ratio Lower Upper
57 100
41 72.0 28.3 42.5#
56 0.0 25.9 38.9#

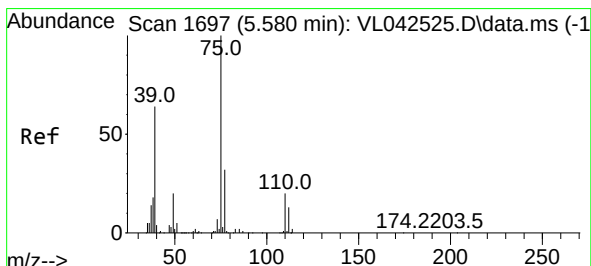
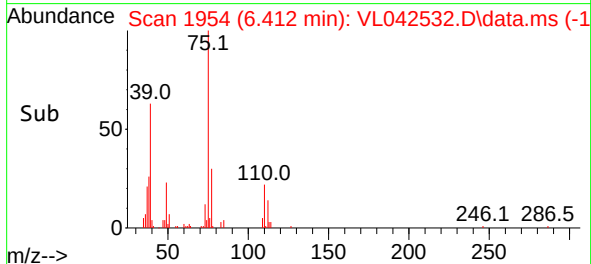
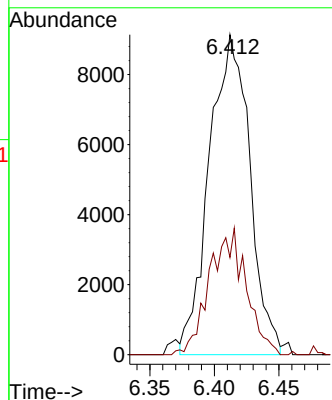
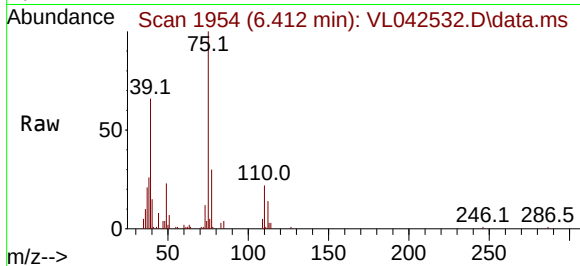




#45
 t-1,3-Dichloropropene
 Concen: 1.756 ppbv
 RT: 6.412 min Scan# 1948
 Delta R.T. 0.019 min
 Lab File: VL042532.D
 Acq: 12 May 2025 12:58

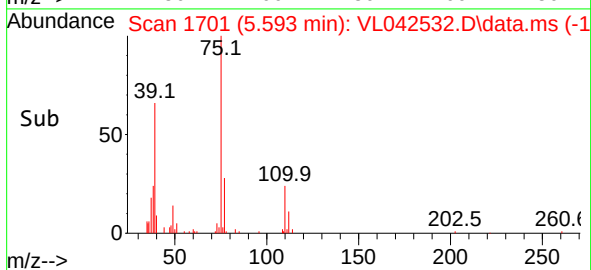
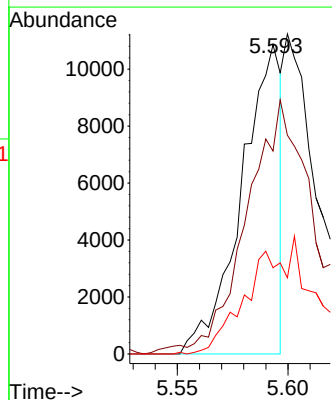
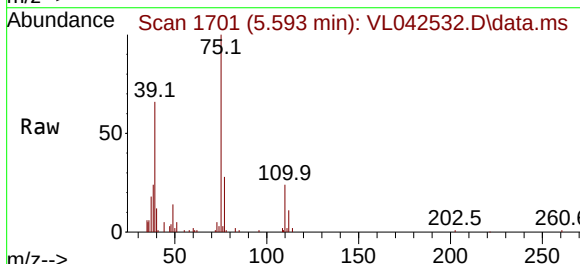
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

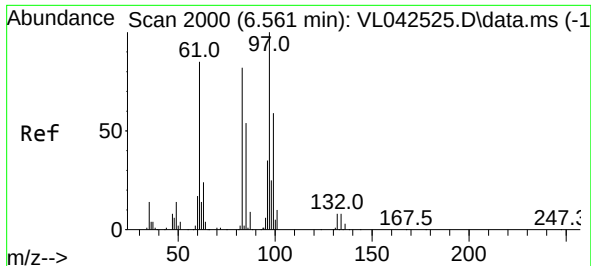
Tgt Ion: 75 Resp: 19945
 Ion Ratio Lower Upper
 75 100
 77 30.4 23.3 34.9



#46
 cis-1,3-Dichloropropene
 Concen: 0.988 ppbv
 RT: 5.593 min Scan# 1701
 Delta R.T. 0.013 min
 Lab File: VL042532.D
 Acq: 12 May 2025 12:58

Tgt Ion: 75 Resp: 13533
 Ion Ratio Lower Upper
 75 100
 39 62.9 51.2 76.8
 77 27.4 25.4 38.0

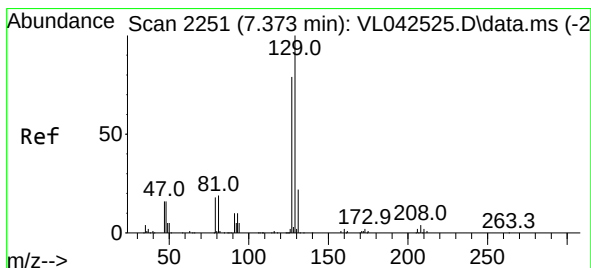
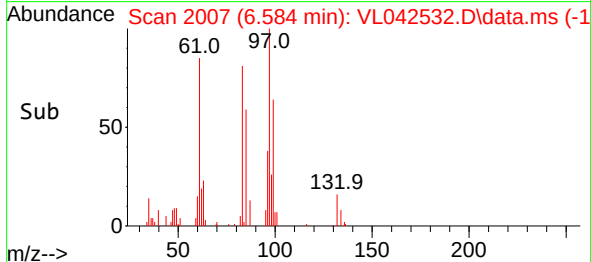
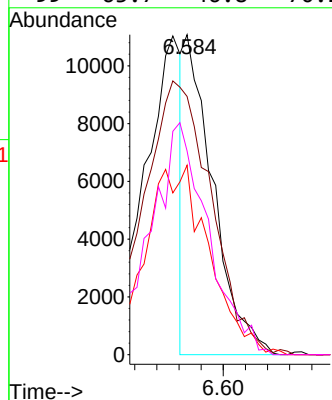
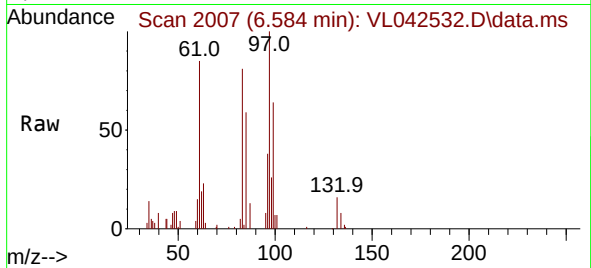




#47
1,1,2-Trichloroethane
Concen: 0.857 ppbv
RT: 6.584 min Scan# 2007
Delta R.T. 0.023 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

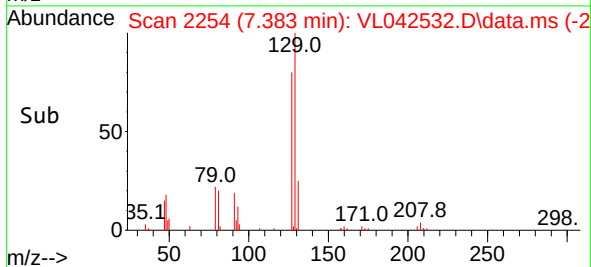
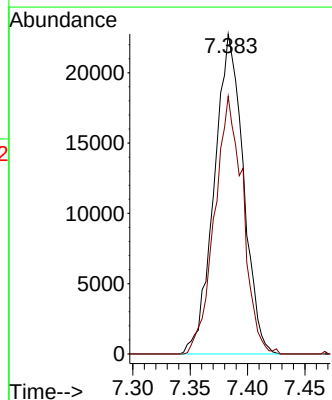
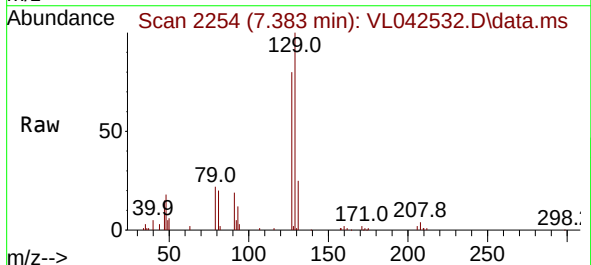
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

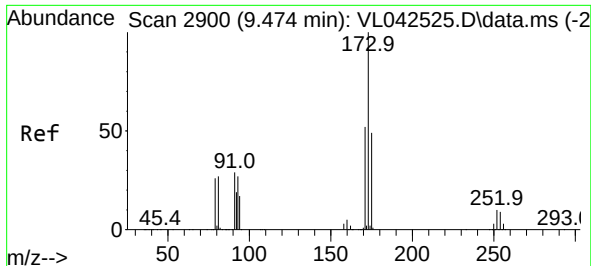
Tgt Ion:	97	Resp:	10013
Ion	Ratio	Lower	Upper
97	100		
83	79.1	66.0	99.0
85	58.1	42.8	64.2
99	63.7	46.8	70.2



#48
Dibromochloromethane
Concen: 2.058 ppbv
RT: 7.383 min Scan# 2254
Delta R.T. 0.010 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

Tgt Ion:	129	Resp:	40163
Ion	Ratio	Lower	Upper
129	100		
127	78.4	39.6	118.8

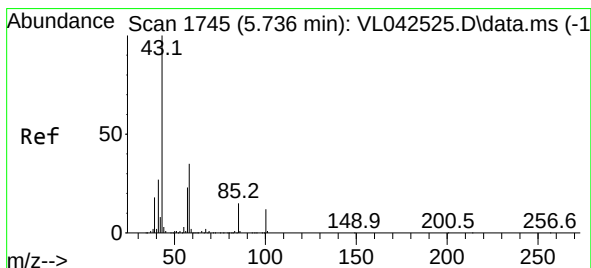
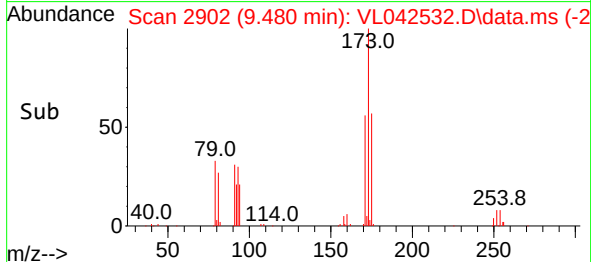
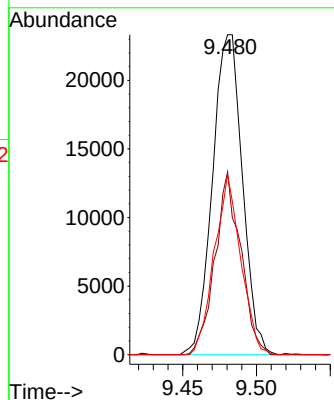
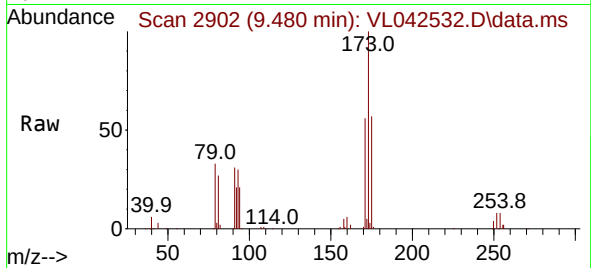




#49
Bromoform
Concen: 2.056 ppbv
RT: 9.480 min Scan# 2900
Delta R.T. 0.006 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

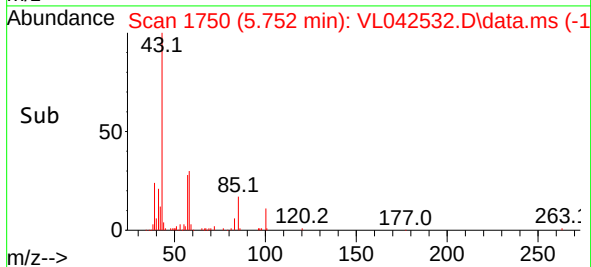
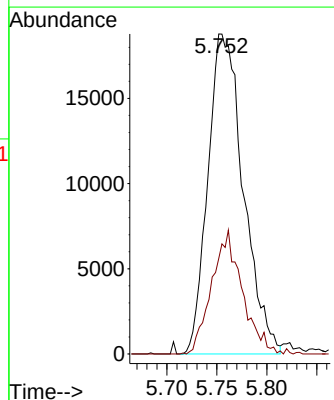
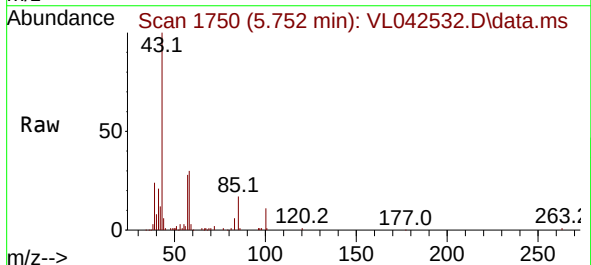
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

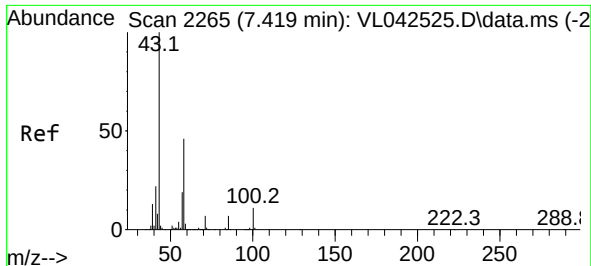
Tgt Ion:173 Resp: 32916
Ion Ratio Lower Upper
173 100
175 49.2 39.1 58.7
171 49.8 41.8 62.8



#50
4-Methyl-2-Pentanone
Concen: 1.994 ppbv
RT: 5.752 min Scan# 1750
Delta R.T. 0.016 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

Tgt Ion: 43 Resp: 46331
Ion Ratio Lower Upper
43 100
58 33.4 28.6 42.8

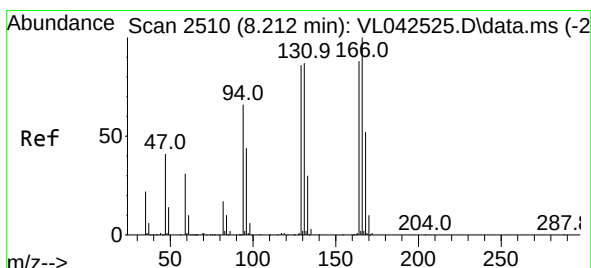
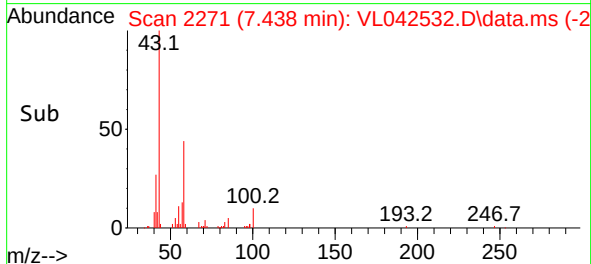
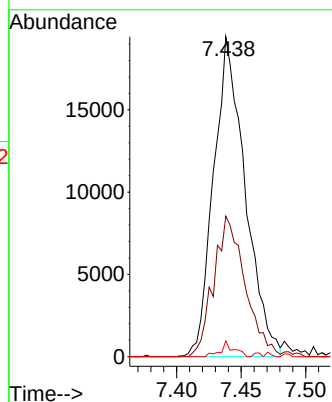
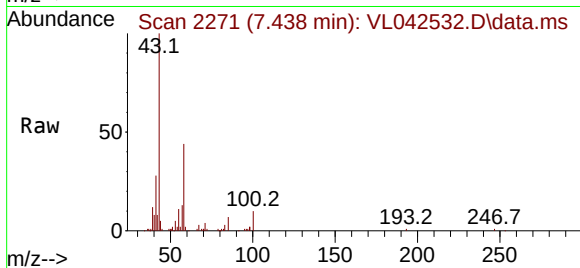




#51
2-Hexanone
Concen: 1.916 ppbv
RT: 7.438 min Scan# 2113
Delta R.T. 0.019 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

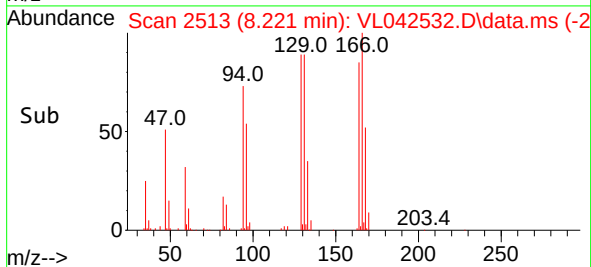
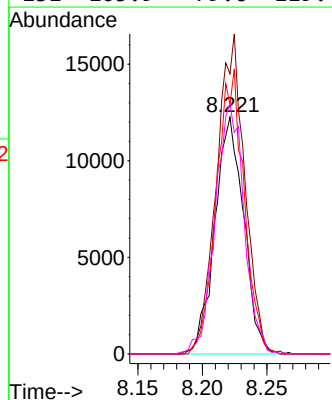
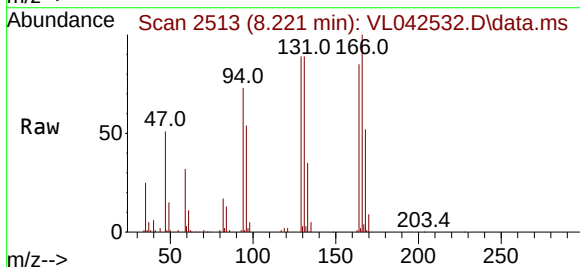
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

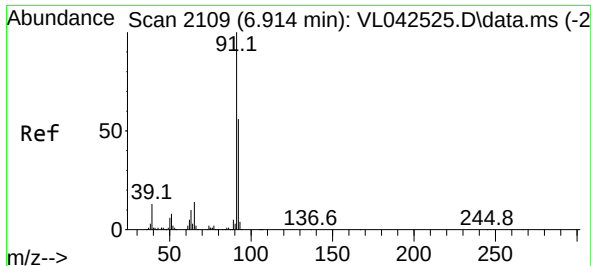
Tgt Ion: 43 Resp: 33088
Ion Ratio Lower Upper
43 100
58 44.3 37.5 56.3
98 2.7 0.9 1.3#



#52
Tetrachloroethene
Concen: 1.863 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. 0.010 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

Tgt Ion:164 Resp: 19118
Ion Ratio Lower Upper
164 100
166 118.3 91.3 136.9
129 105.4 78.9 118.3
131 105.9 79.6 119.4





#53

Toluene

Concen: 1.882 ppbv

RT: 6.930 min Scan# 2109

Delta R.T. 0.016 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

Instrument :

MSVOA_L

ClientSampleId :

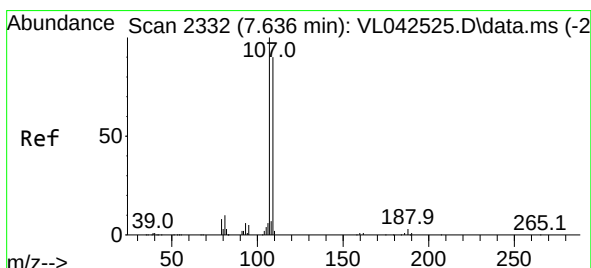
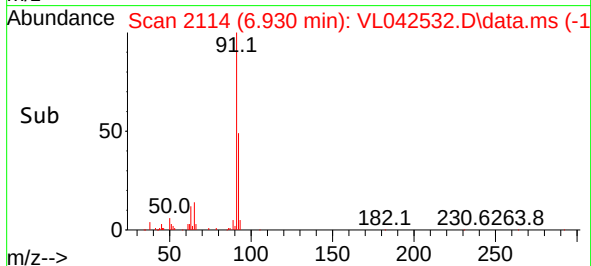
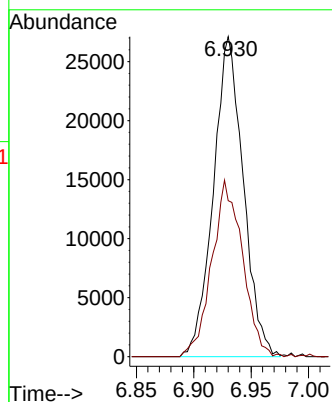
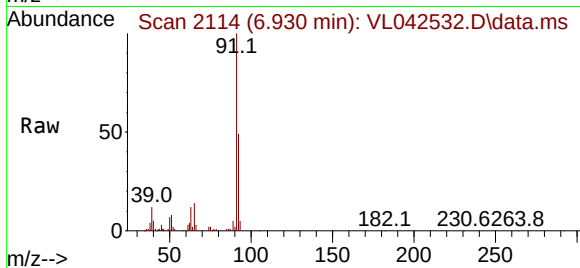
VSTDIC002

Tgt Ion: 91 Resp: 49216

Ion Ratio Lower Upper

91 100

92 56.6 47.8 71.6



#54

1,2-Dibromoethane

Concen: 1.958 ppbv

RT: 7.648 min Scan# 2336

Delta R.T. 0.013 min

Lab File: VL042532.D

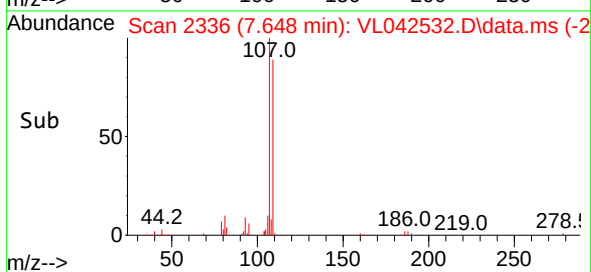
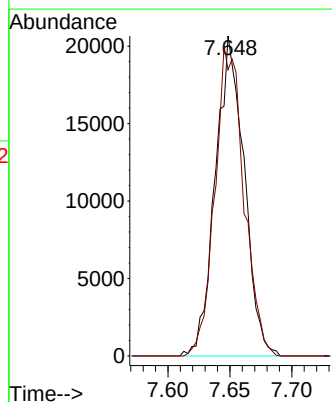
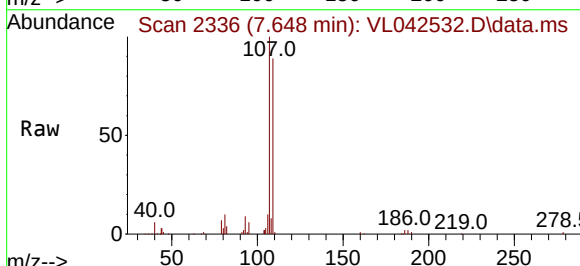
Acq: 12 May 2025 12:58

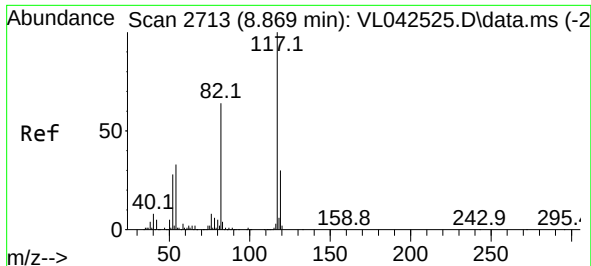
Tgt Ion: 107 Resp: 33420

Ion Ratio Lower Upper

107 100

109 89.5 72.2 108.4

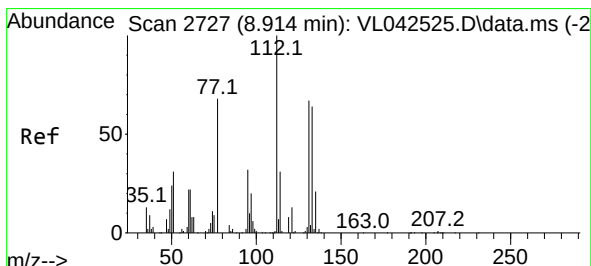
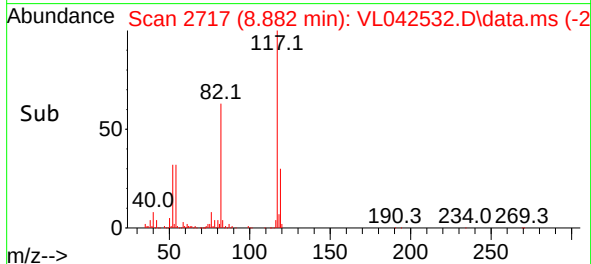
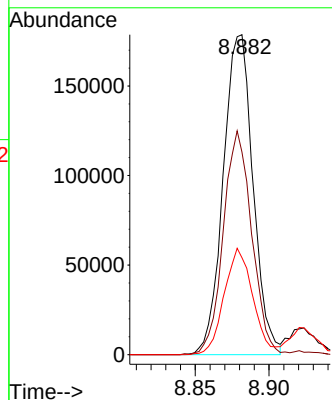
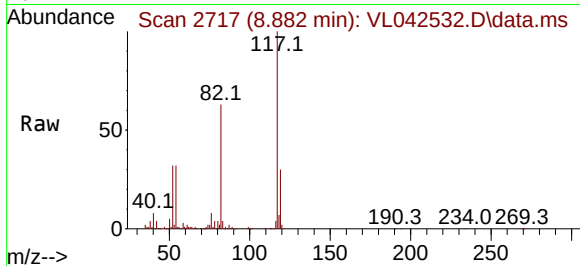




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

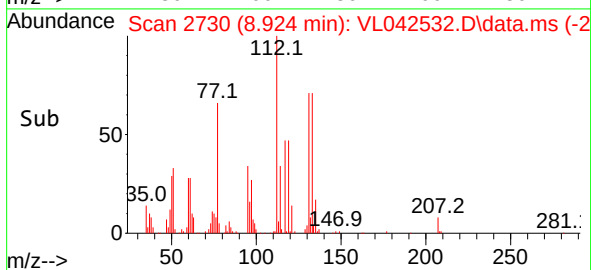
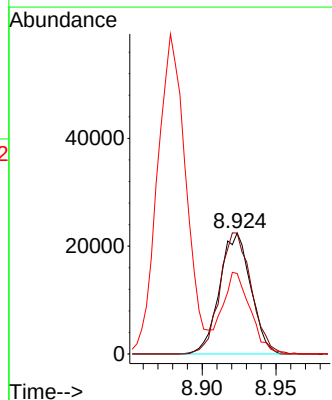
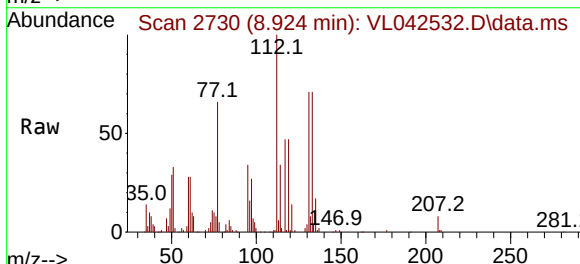
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

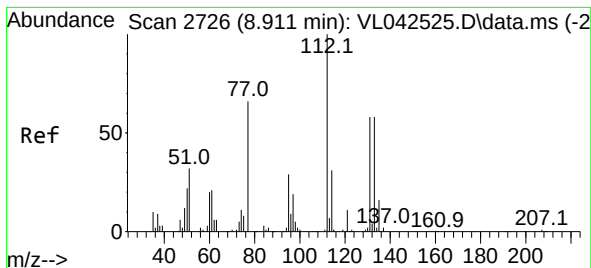
Tgt Ion:117 Resp: 251305
Ion Ratio Lower Upper
117 100
82 67.6 55.0 82.4
119 31.9 25.8 38.6



#56
1,1,1,2-Tetrachloroethane
Concen: 2.119 ppbv
RT: 8.924 min Scan# 2730
Delta R.T. 0.010 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

Tgt Ion:131 Resp: 33013
Ion Ratio Lower Upper
131 100
133 100.7 77.4 116.2
119 54.3 49.0 73.4





#57

Chlorobenzene

Concen: 2.147 ppbv

RT: 8.917 min Scan# 21

Delta R.T. 0.006 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

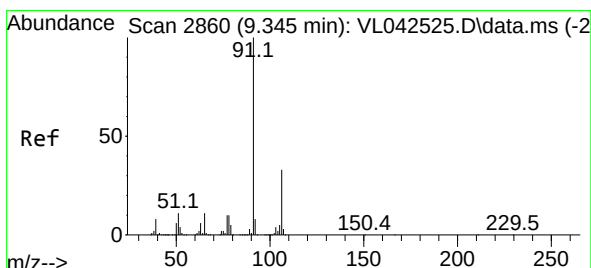
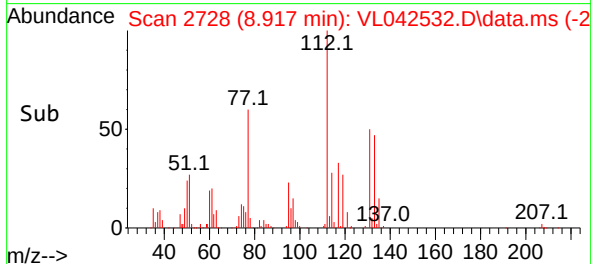
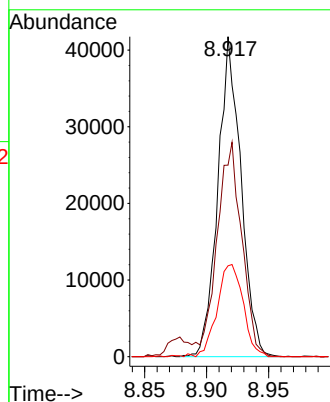
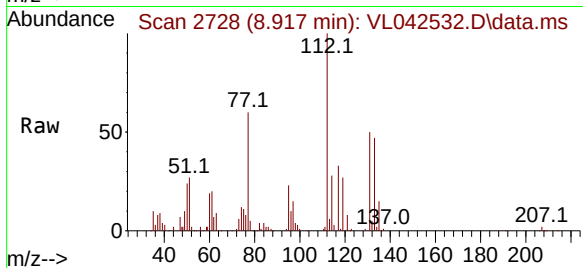
Tgt Ion:112 Resp: 54172

Ion Ratio Lower Upper

112 100

77 59.7 53.6 80.4

114 28.4 28.2 34.4



#58

Ethyl Benzene

Concen: 1.934 ppbv

RT: 9.351 min Scan# 2862

Delta R.T. 0.006 min

Lab File: VL042532.D

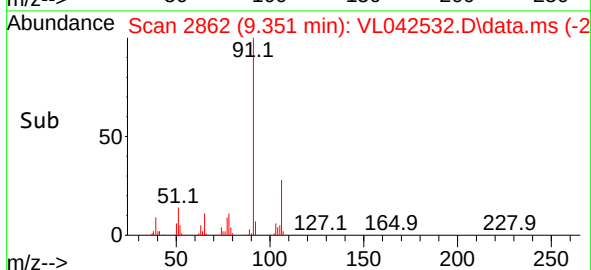
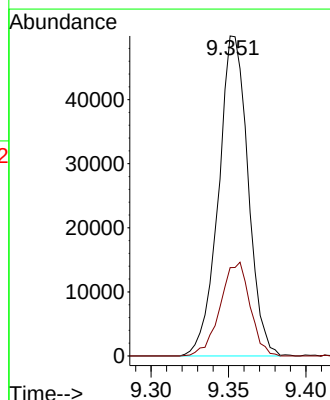
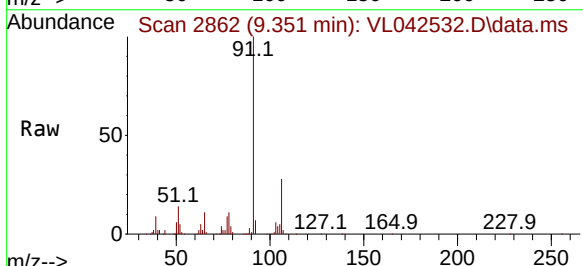
Acq: 12 May 2025 12:58

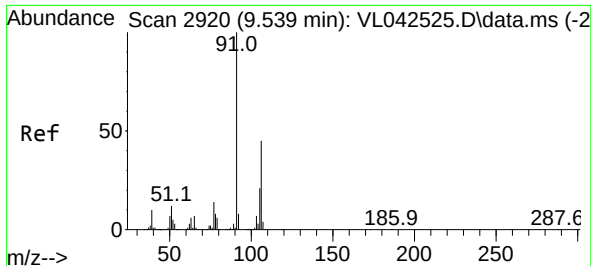
Tgt Ion: 91 Resp: 66256

Ion Ratio Lower Upper

91 100

106 27.6 26.0 39.0





#59

m/p-Xylene

Concen: 2.577 ppbv

RT: 9.545 min Scan# 2920

Delta R.T. 0.006 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

Instrument :

MSVOA_L

ClientSampleId :

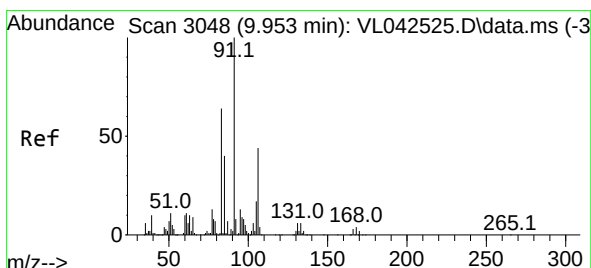
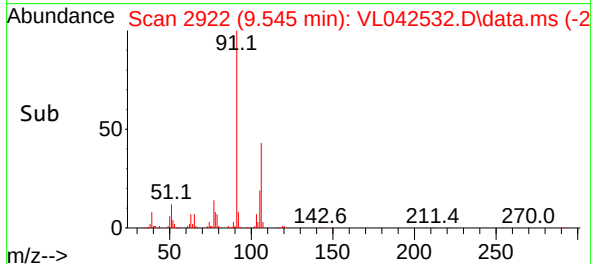
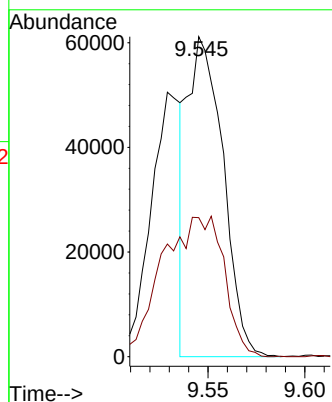
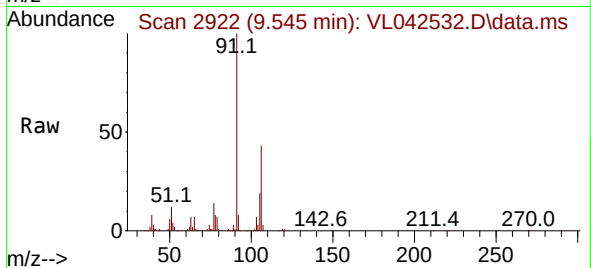
VSTDIC002

Tgt Ion: 91 Resp: 78521

Ion Ratio Lower Upper

91 100

106 76.3 0.0 0.0#



#60

o-Xylene

Concen: 2.188 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. 0.010 min

Lab File: VL042532.D

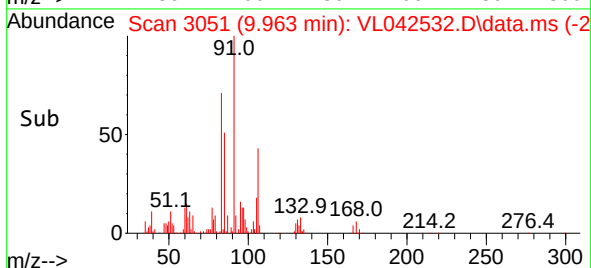
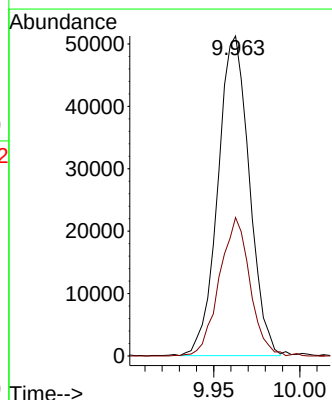
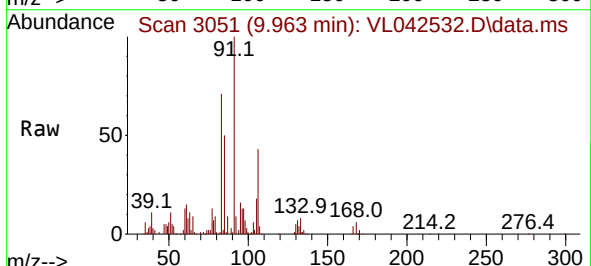
Acq: 12 May 2025 12:58

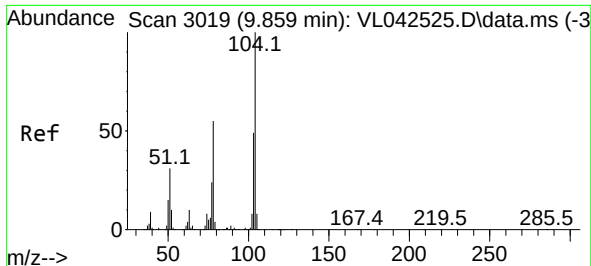
Tgt Ion: 91 Resp: 64958

Ion Ratio Lower Upper

91 100

106 42.3 21.6 64.6





#61

Styrene

Concen: 1.781 ppbv

RT: 9.869 min Scan# 3019

Delta R.T. 0.010 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

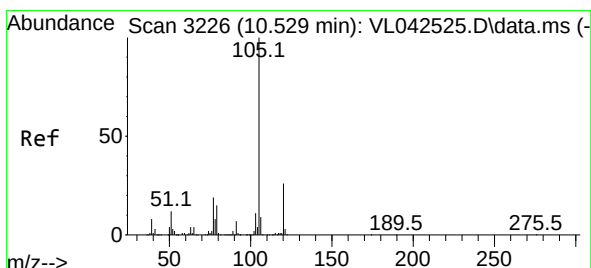
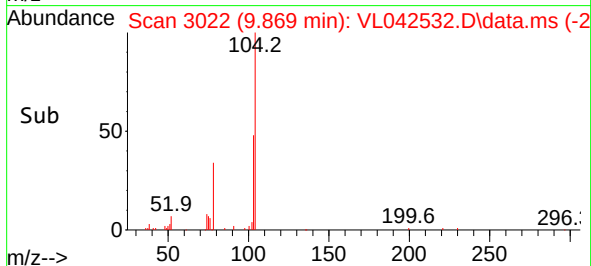
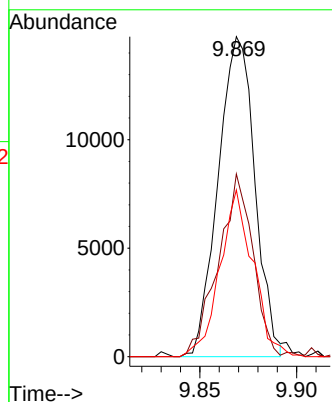
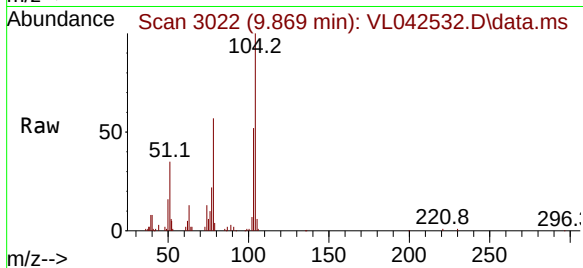
Tgt Ion:104 Resp: 19477

Ion Ratio Lower Upper

104 100

78 54.5 44.7 67.1

103 47.0 38.6 58.0



#62

Isopropylbenzene

Concen: 2.147 ppbv

RT: 10.539 min Scan# 3229

Delta R.T. 0.010 min

Lab File: VL042532.D

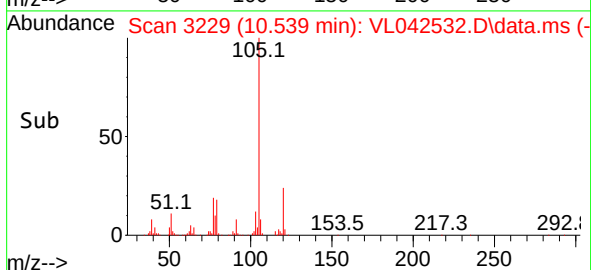
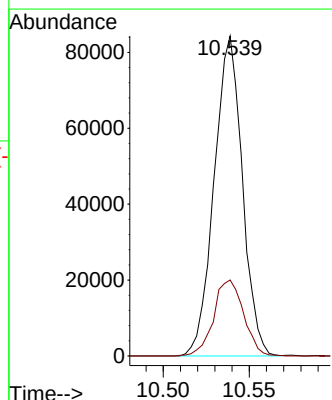
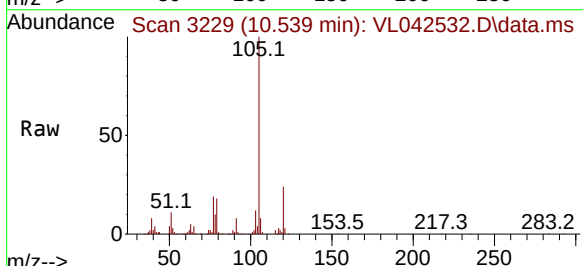
Acq: 12 May 2025 12:58

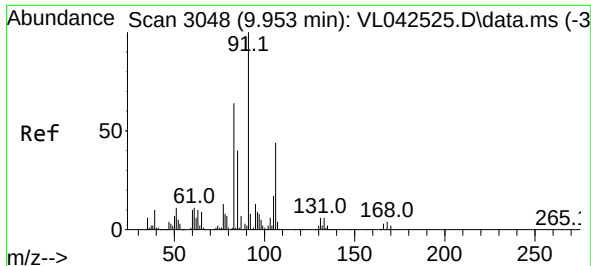
Tgt Ion:105 Resp: 96054

Ion Ratio Lower Upper

105 100

120 25.3 20.1 30.1

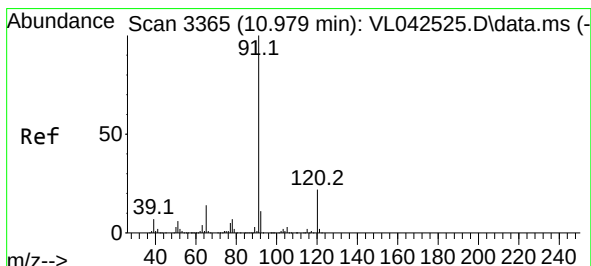
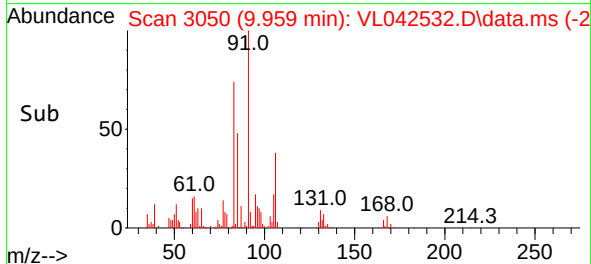
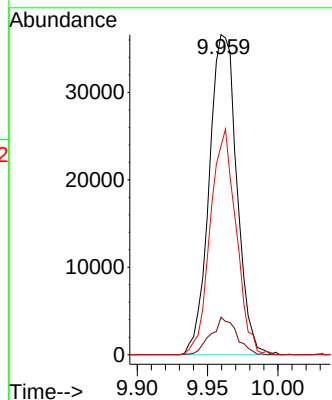
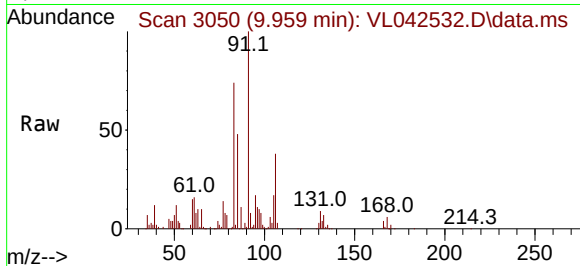




#63
 1,1,2,2-Tetrachloroethane
 Concen: 2.096 ppbv
 RT: 9.959 min Scan# 3048
 Delta R.T. 0.006 min
 Lab File: VL042532.D
 Acq: 12 May 2025 12:58

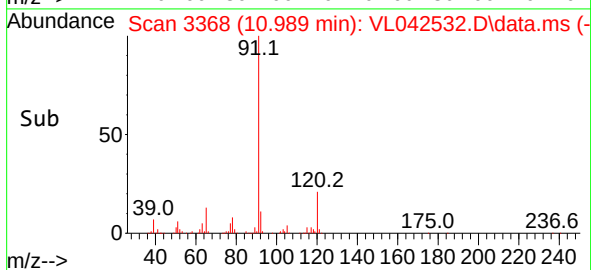
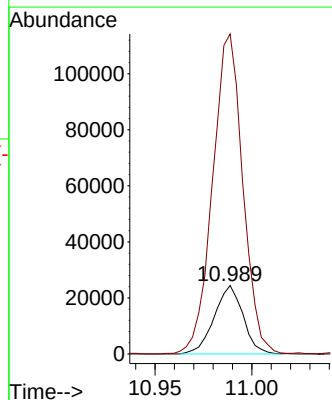
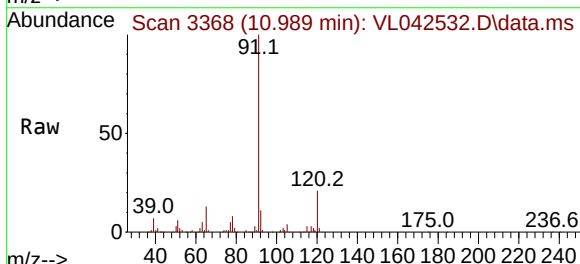
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

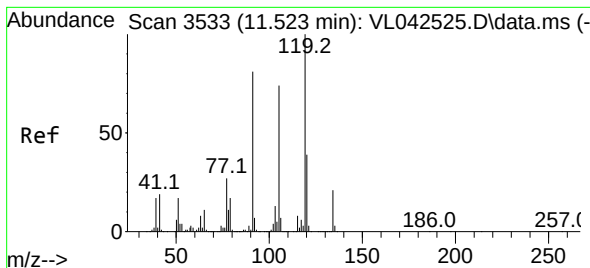
Tgt Ion	Ratio	Lower	Upper
83	100		
131	10.8	4.9	14.7
85	65.9	32.3	96.8



#64
 n-propylbenzene
 Concen: 2.230 ppbv
 RT: 10.989 min Scan# 3368
 Delta R.T. 0.010 min
 Lab File: VL042532.D
 Acq: 12 May 2025 12:58

Tgt Ion	Ratio	Lower	Upper
120	100		
91	491.5	377.7	566.5

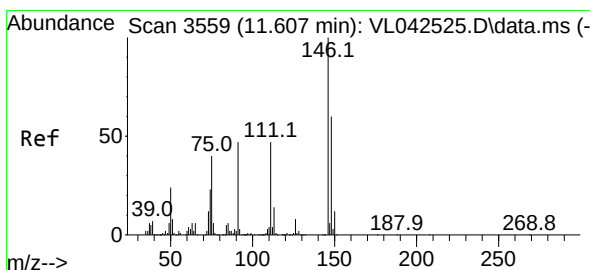
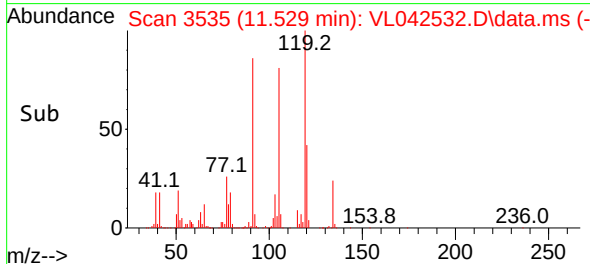
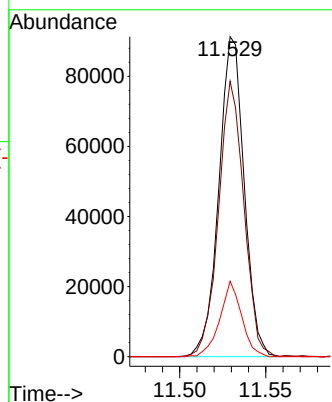
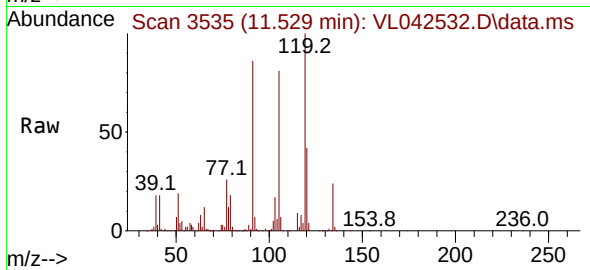




#65
tert-Butylbenzene
Concen: 2.278 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. 0.006 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

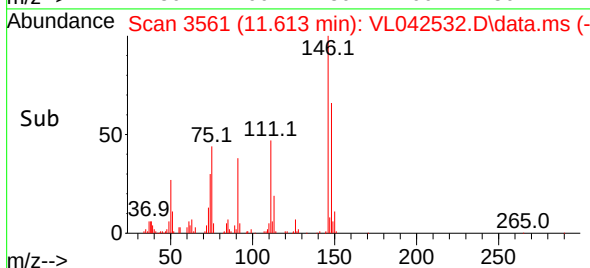
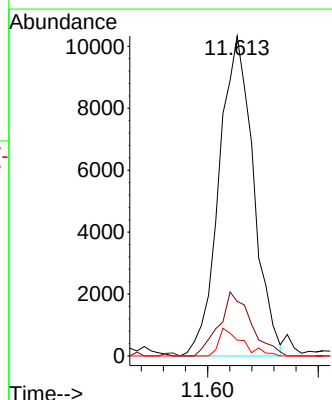
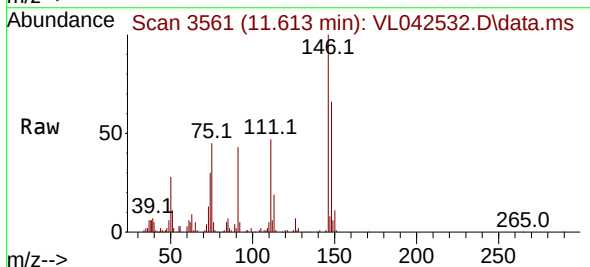
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

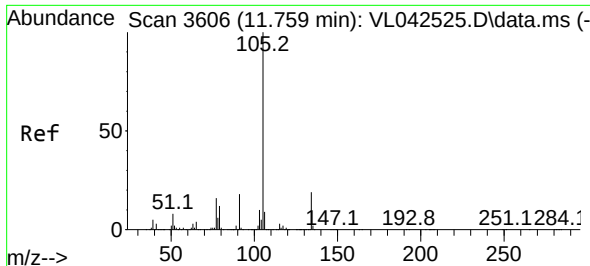
Tgt Ion:119 Resp: 93604
Ion Ratio Lower Upper
119 100
91 86.3 66.6 99.8
134 20.3 16.3 24.5



#66
Benzyl Chloride
Concen: 2.047 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. 0.006 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

Tgt Ion: 91 Resp: 11128
Ion Ratio Lower Upper
91 100
126 19.1 13.7 20.5
128 5.9 4.2 6.2

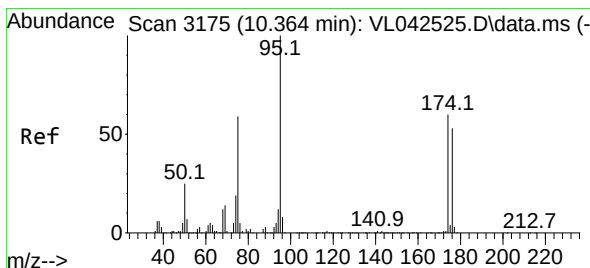
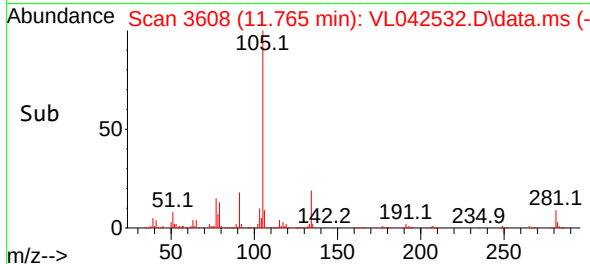
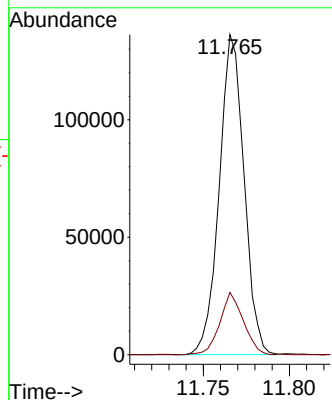
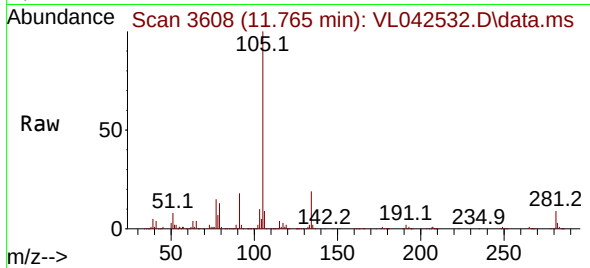




#67
 sec-Butylbenzene
 Concen: 2.316 ppbv
 RT: 11.765 min Scan# 3608
 Delta R.T. 0.006 min
 Lab File: VL042532.D
 Acq: 12 May 2025 12:58

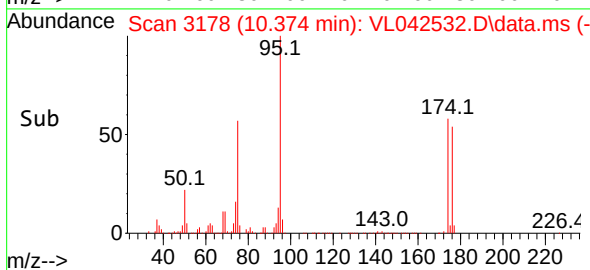
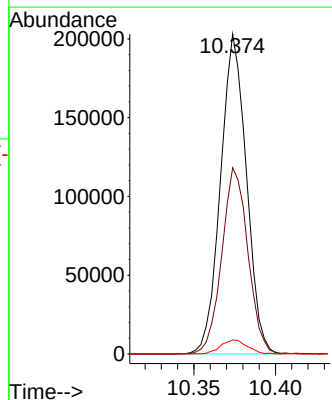
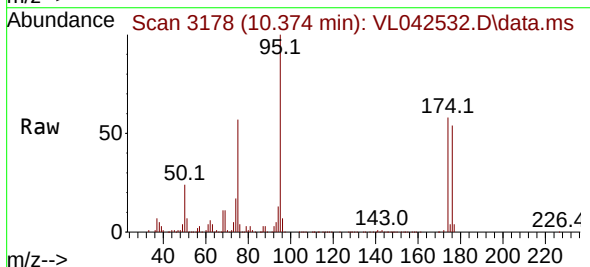
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

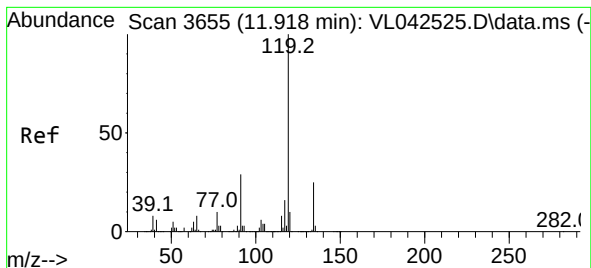
Tgt Ion:105 Resp: 136432
 Ion Ratio Lower Upper
 105 100
 134 18.5 14.9 22.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.238 ppbv
 RT: 10.374 min Scan# 3178
 Delta R.T. 0.010 min
 Lab File: VL042532.D
 Acq: 12 May 2025 12:58

Tgt Ion: 95 Resp: 223868
 Ion Ratio Lower Upper
 95 100
 174 59.0 48.0 72.0
 175 4.6 3.5 5.3

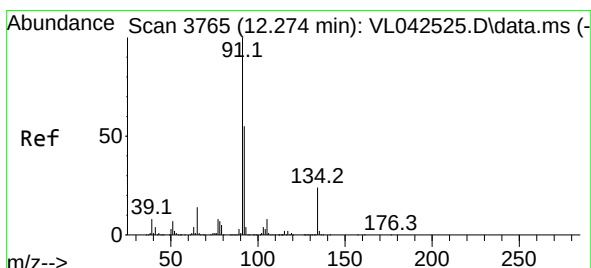
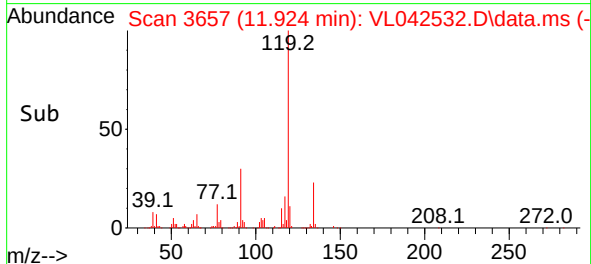
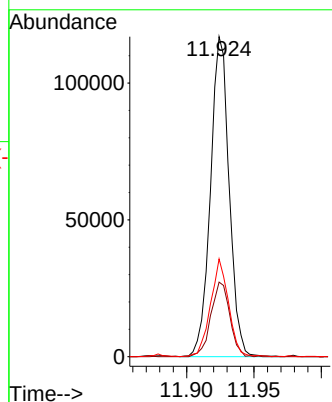
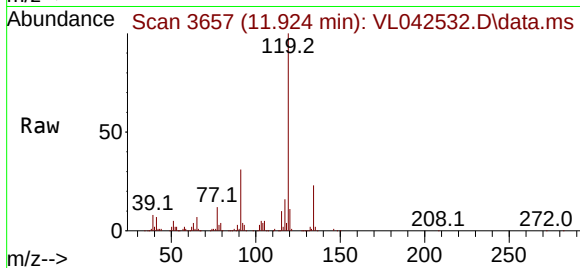




#69
 p-Isopropyltoluene
 Concen: 2.332 ppbv
 RT: 11.924 min Scan# 3657
 Delta R.T. 0.006 min
 Lab File: VL042532.D
 Acq: 12 May 2025 12:58

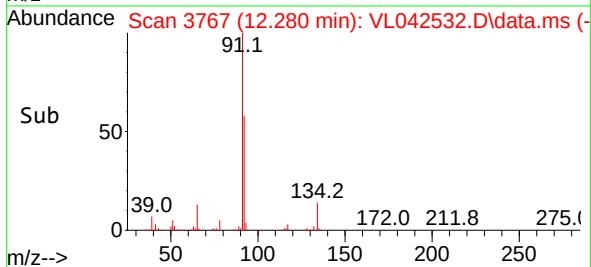
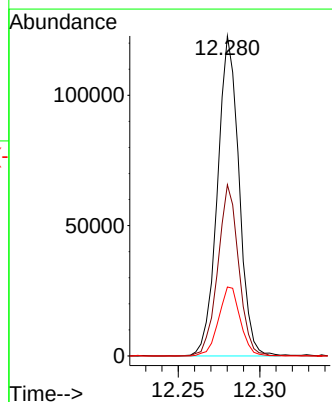
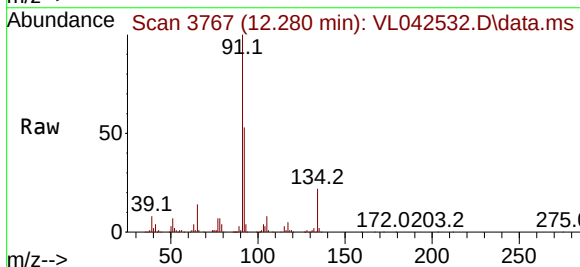
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

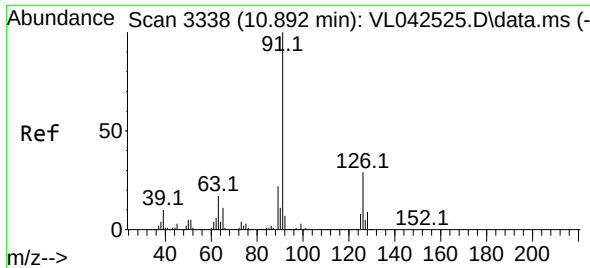
Tgt Ion: 119 Resp: 112913
 Ion Ratio Lower Upper
 119 100
 134 23.5 19.8 29.6
 91 30.3 23.6 35.4



#70
 n-Butylbenzene
 Concen: 2.357 ppbv
 RT: 12.280 min Scan# 3767
 Delta R.T. 0.006 min
 Lab File: VL042532.D
 Acq: 12 May 2025 12:58

Tgt Ion: 91 Resp: 112776
 Ion Ratio Lower Upper
 91 100
 92 51.8 43.7 65.5
 134 21.7 18.9 28.3

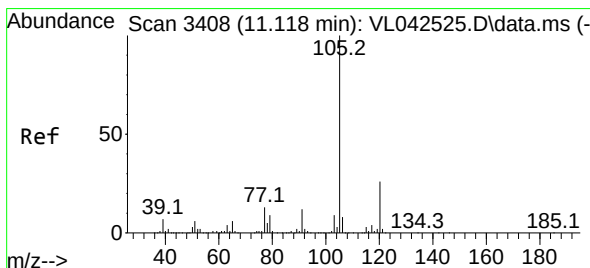
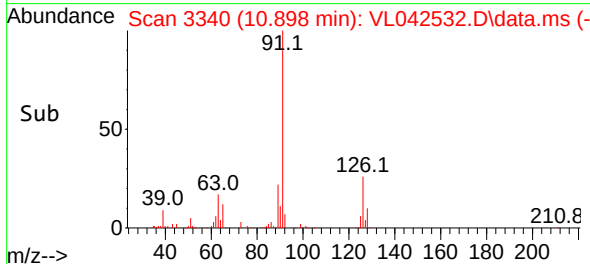
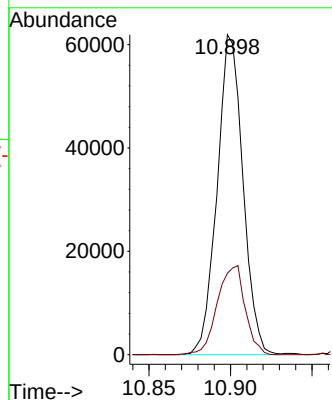
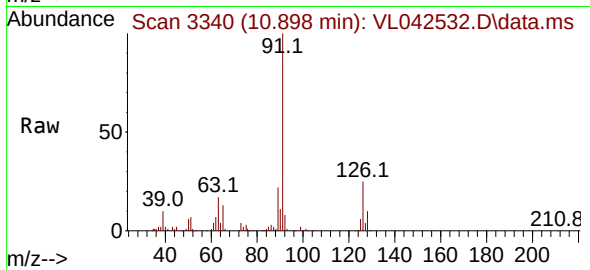




#71
2-Chlorotoluene
Concen: 2.012 ppbv
RT: 10.898 min Scan# 31
Delta R.T. 0.006 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

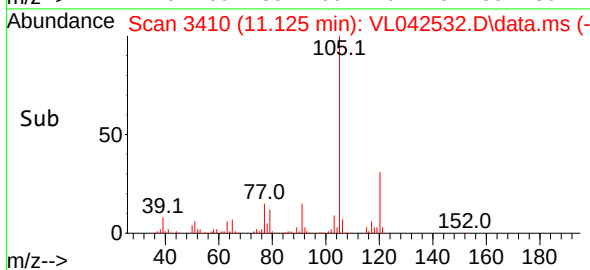
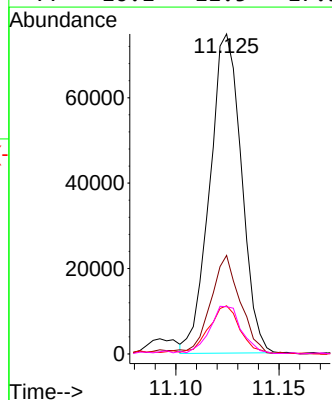
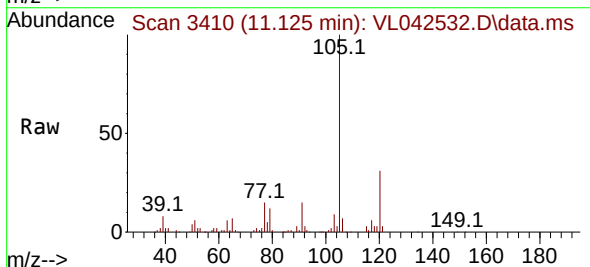
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

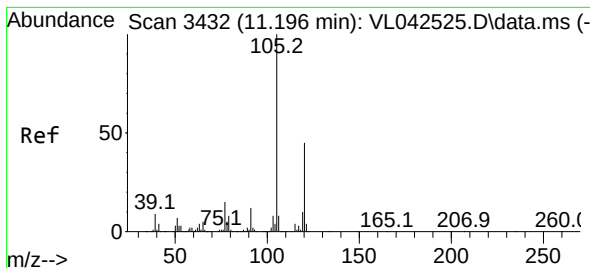
Tgt Ion: 91 Resp: 68153
Ion Ratio Lower Upper
91 100
126 29.9 11.4 45.6



#72
4-Ethyltoluene
Concen: 2.162 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.006 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

Tgt Ion: 105 Resp: 79670
Ion Ratio Lower Upper
105 100
120 30.3 22.9 34.3
91 16.3 10.9 16.3
77 16.1 11.5 17.3





#73

1,3,5-Trimethylbenzene

Concen: 2.242 ppbv

RT: 11.202 min Scan# 3432

Delta R.T. 0.006 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

Instrument :

MSVOA_1

ClientSampleId :

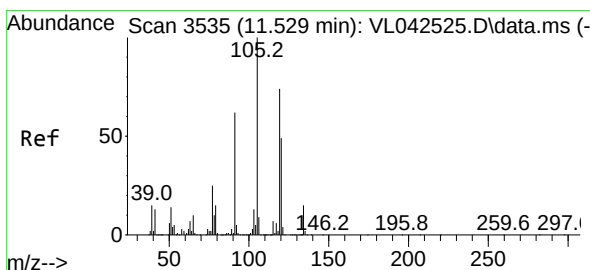
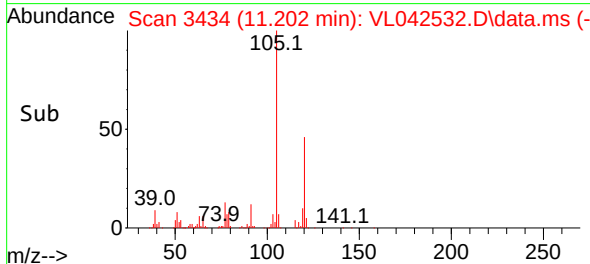
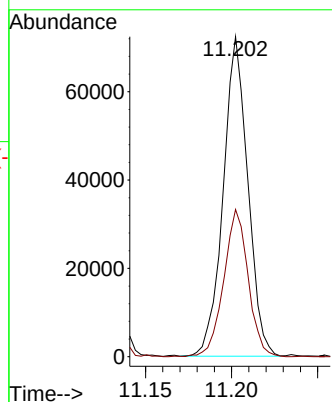
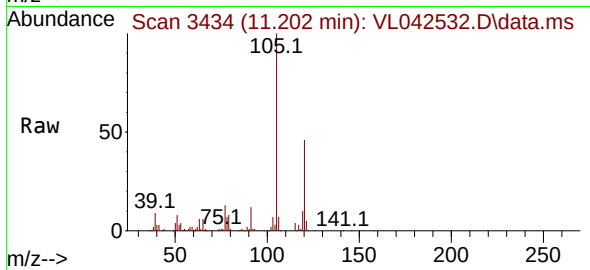
VSTDIC002

Tgt Ion:105 Resp: 71983

Ion Ratio Lower Upper

105 100

120 46.0 36.0 54.0



#74

1,2,4-Trimethylbenzene

Concen: 2.443 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. 0.006 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

Tgt Ion:105 Resp: 96474

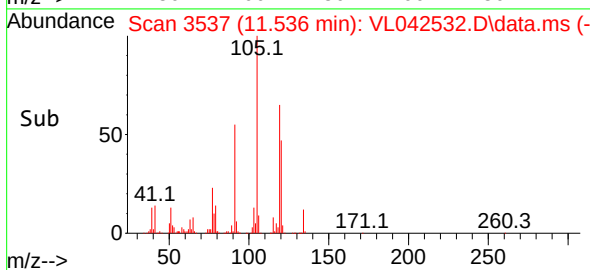
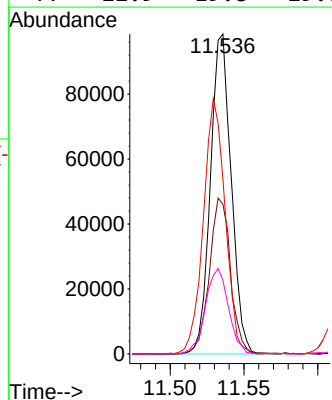
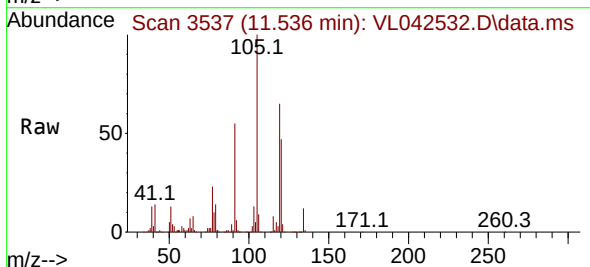
Ion Ratio Lower Upper

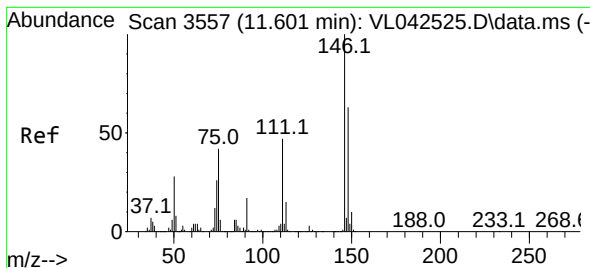
105 100

120 46.8 39.0 58.6

91 54.6 49.4 74.2

77 22.9 19.8 29.6





#75

1,3-Dichlorobenzene

Concen: 2.221 ppbv

RT: 11.604 min Scan# 3557

Delta R.T. 0.003 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC002

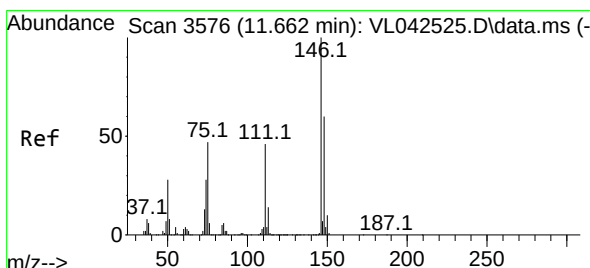
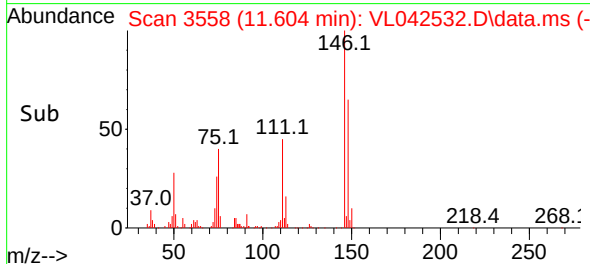
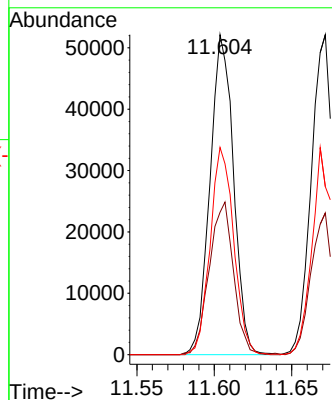
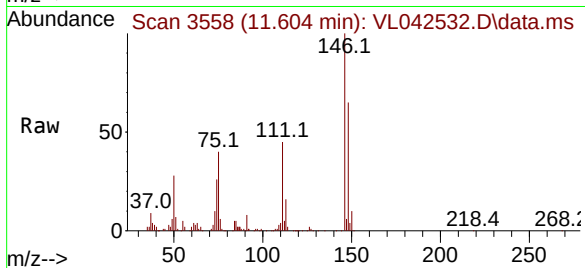
Tgt Ion:146 Resp: 54948

Ion Ratio Lower Upper

146 100

111 49.2 23.6 71.0

148 65.0 31.6 94.8



#76

1,4-Dichlorobenzene

Concen: 2.272 ppbv

RT: 11.672 min Scan# 3579

Delta R.T. 0.010 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

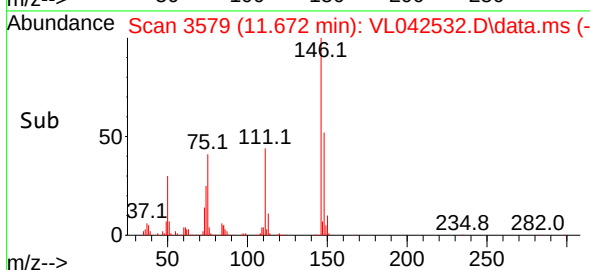
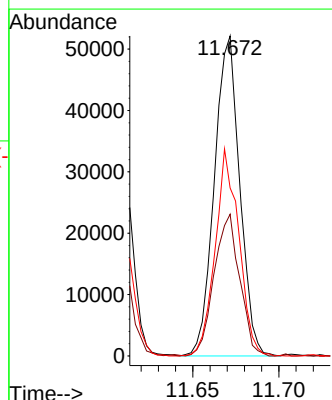
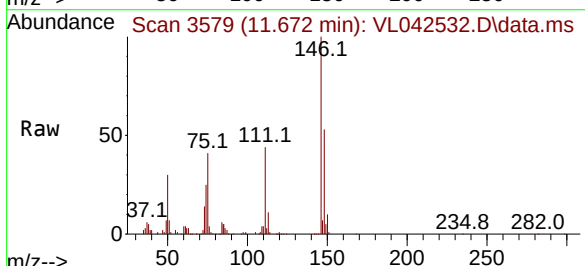
Tgt Ion:146 Resp: 53480

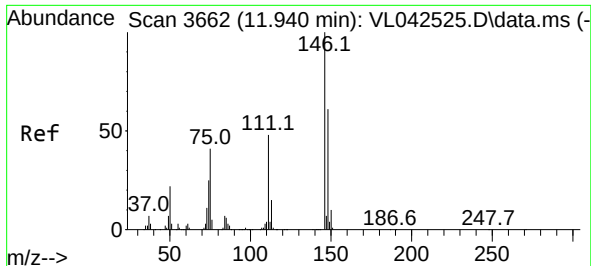
Ion Ratio Lower Upper

146 100

111 44.8 23.4 70.3

148 60.3 31.6 94.7

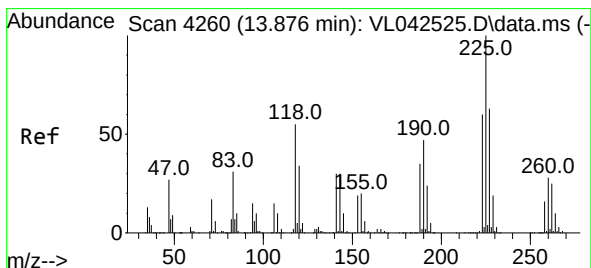
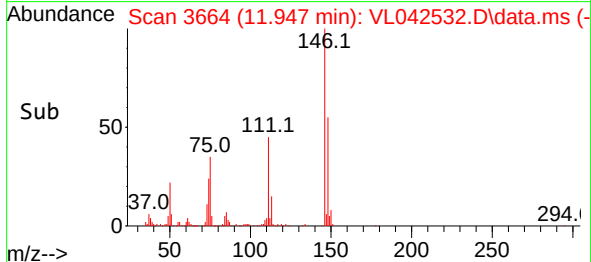
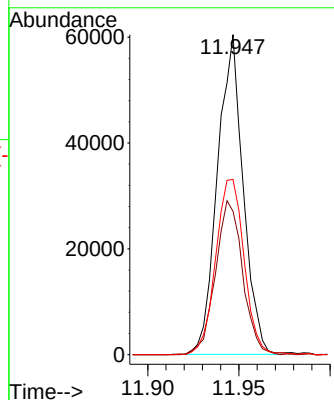
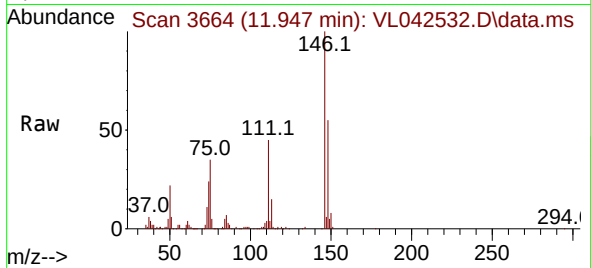




#77
 1,2-Dichlorobenzene
 Concen: 2.317 ppbv
 RT: 11.947 min Scan# 3664
 Delta R.T. 0.006 min
 Lab File: VL042532.D
 Acq: 12 May 2025 12:58

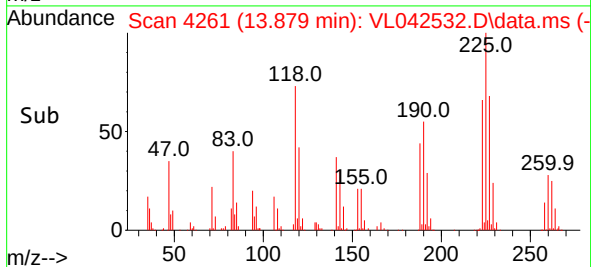
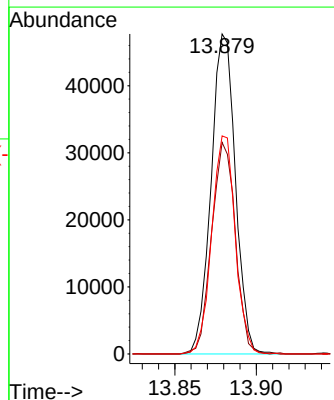
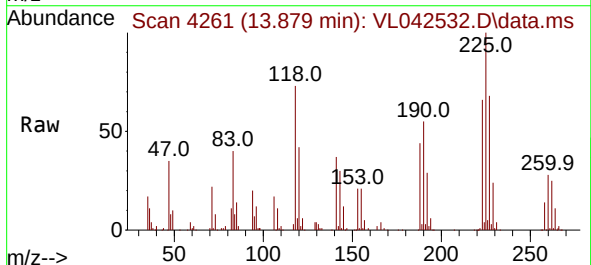
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

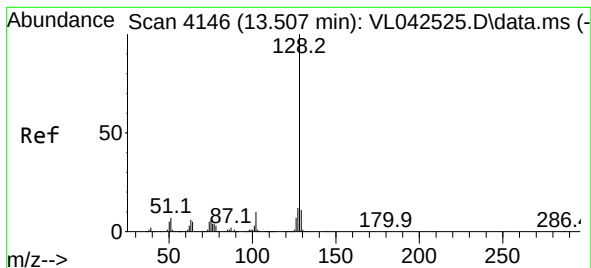
Tgt Ion:146 Resp: 59194
 Ion Ratio Lower Upper
 146 100
 111 50.9 24.9 74.8
 148 60.9 31.4 94.2



#78
 Hexachloro-1,3-Butadiene
 Concen: 2.258 ppbv
 RT: 13.879 min Scan# 4261
 Delta R.T. 0.003 min
 Lab File: VL042532.D
 Acq: 12 May 2025 12:58

Tgt Ion:225 Resp: 49456
 Ion Ratio Lower Upper
 225 100
 223 64.6 50.8 76.2
 227 65.9 50.5 75.7





#79

Naphthalene

Concen: 2.564 ppbv

RT: 13.513 min Scan# 4146

Delta R.T. 0.006 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

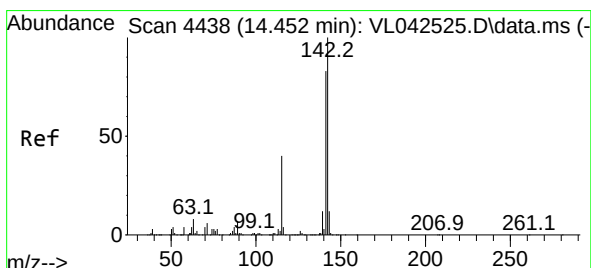
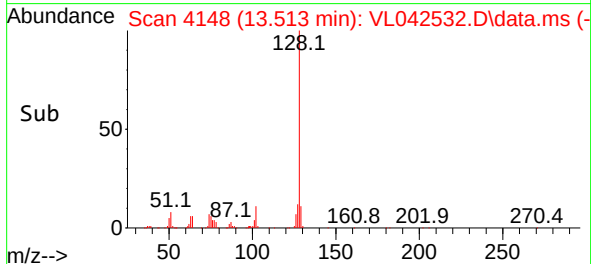
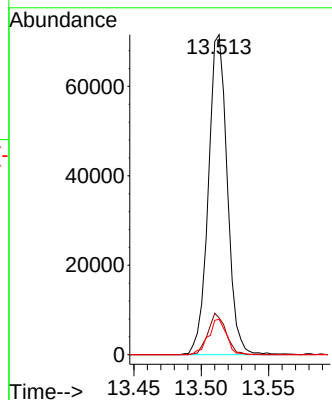
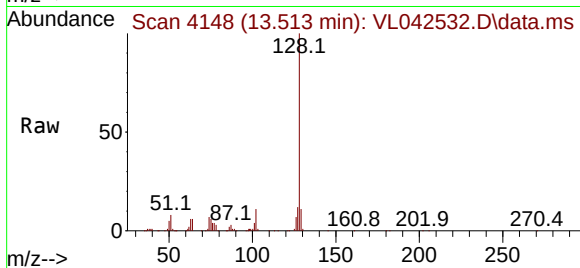
Tgt Ion:128 Resp: 69902

Ion Ratio Lower Upper

128 100

127 11.5 9.8 14.8

129 11.0 8.6 12.8



#80

Naphthalene,2-methyl-

Concen: 1.841 ppbv

RT: 14.458 min Scan# 4440

Delta R.T. 0.006 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

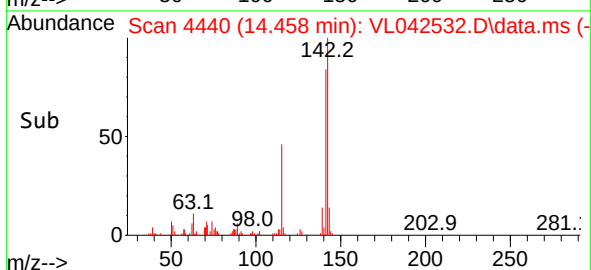
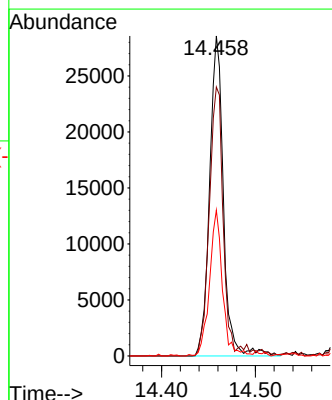
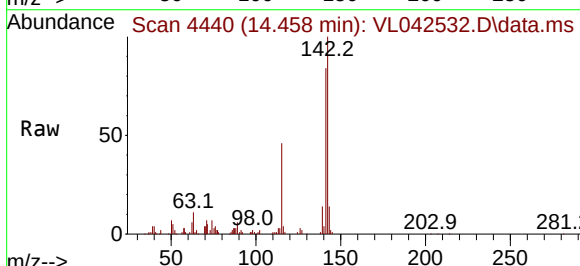
Tgt Ion:142 Resp: 29203

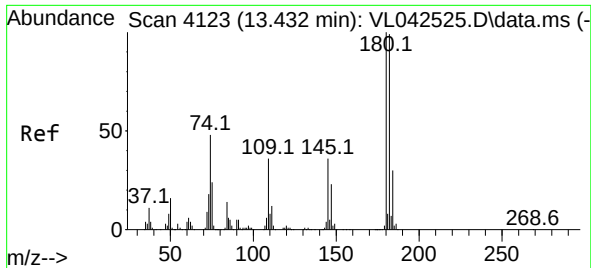
Ion Ratio Lower Upper

142 100

141 88.4 66.8 100.2

115 43.9 33.0 49.6





#81

1,2,4-Trichlorobenzene

Concen: 2.268 ppbv

RT: 13.439 min Scan# 41

Delta R.T. 0.006 min

Lab File: VL042532.D

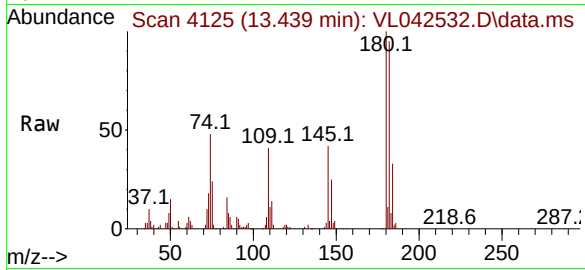
Acq: 12 May 2025 12:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002



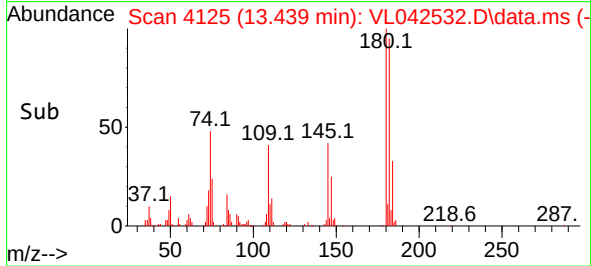
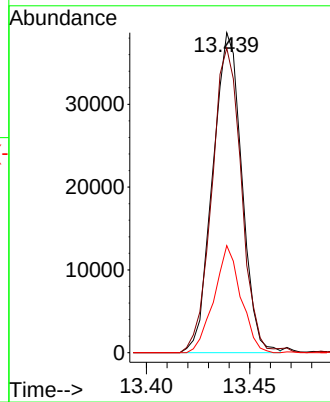
Tgt Ion:180 Resp: 37757

Ion Ratio Lower Upper

180 100

182 97.5 76.6 114.8

184 31.0 24.6 36.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051225\
 Data File : VL042533.D
 Acq On : 12 May 2025 14:28
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Quant Time: May 12 23:51:20 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Mon May 12 23:42:45 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	108558	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	309586	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	279828	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	246798	10.136	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.400%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.495	85	254959	14.463	ppbv	99
3) Chlorodifluoromethane	1.473	51	266796	14.850	ppbv	98
4) Chloromethane	1.531	50	101130	14.056	ppbv	99
5) Vinyl Chloride	1.576	62	98136	13.331	ppbv	97
6) Bromomethane	1.664	94	50426	14.424	ppbv	98
7) Chloroethane	1.703	64	38860	13.411	ppbv	99
8) Dichlorotetrafluoroethane	1.550	85	214140	14.118	ppbv	98
9) Propene	1.479	41	98085	25.137	ppbv #	1
10) Heptane	4.968	43	272741	18.334	ppbv	98
11) Trichlorofluoromethane	1.874	101	245994	14.507	ppbv	94
12) 1,1,2-Trichlorotrifluo...	2.136	101	193238	14.189	ppbv	99
13) Ethanol	1.719	45	11869	11.144	ppbv	99
14) Bromoethene	1.780	108	75429	15.192	ppbv	96
15) Acetone	1.832	43	213564	12.311	ppbv	99
16) 1,3-Butadiene	1.605	39	112792	14.460	ppbv	99
17) tert-Butyl alcohol	2.036	59	230498	14.380	ppbv	99
18) 1,1-Dichloroethene	2.029	96	86943	14.567	ppbv	98
19) Isopropyl Alcohol	1.884	45	132417	14.052	ppbv #	1
20) Methylene Chloride	2.059	84	74621	12.354	ppbv	98
21) Allyl Chloride	2.091	41	172596	15.028	ppbv	100
22) trans-1,2-Dichloroethene	2.337	96	97705	13.994	ppbv	98
23) Vinyl Acetate	2.460	43	285911	15.744	ppbv	97
24) 1,1-Dichloroethane	2.405	63	196043	14.512	ppbv	98
25) Ethyl Acetate	2.832	43	503336	16.525	ppbv	100
26) Hexane	2.819	57	221600	17.721	ppbv	96
27) Carbon Disulfide	2.146	76	244368	15.138	ppbv	99
28) Methyl tert-Butyl Ether	2.437	73	104072	14.980	ppbv	99
29) Chloroform	2.845	83	373949	14.419	ppbv	97
30) Cyclohexane	3.852	84	188093	18.321	ppbv	99
31) cis-1,2-Dichloroethene	2.716	61	231689	16.408	ppbv	96
32) 1,1,1-Trichloroethane	3.363	97	393153	15.027	ppbv	99
34) 2-Butanone	2.554	43	326787	16.014	ppbv	99
35) Carbon Tetrachloride	3.758	117	419052	15.056	ppbv	99
36) Benzene	3.651	78	458244	16.702	ppbv	96
37) 1,2-Dichloroethane	3.214	62	296168	15.133	ppbv	99
38) Trichloroethene	4.544	130	190538	16.255	ppbv	99
39) 1,2-Dichloropropane	4.308	63	162049	15.867	ppbv	96
40) 1,4-Dioxane	4.573	88	30942	7.599	ppbv #	12
41) Tetrahydrofuran	3.049	42	167734	19.057	ppbv	98
42) Bromodichloromethane	4.483	83	410197	15.734	ppbv	95
43) Methyl Methacrylate	4.874	69	175429	19.145	ppbv	100
44) 2,2,4-Trimethylpentane	4.632	57	753360	17.485	ppbv	99
45) t-1,3-Dichloropropene	6.409	75	225163	19.247	ppbv	93

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051225\
 Data File : VL042533.D
 Acq On : 12 May 2025 14:28
 Operator : SY/MD
 Sample : VSTDICC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

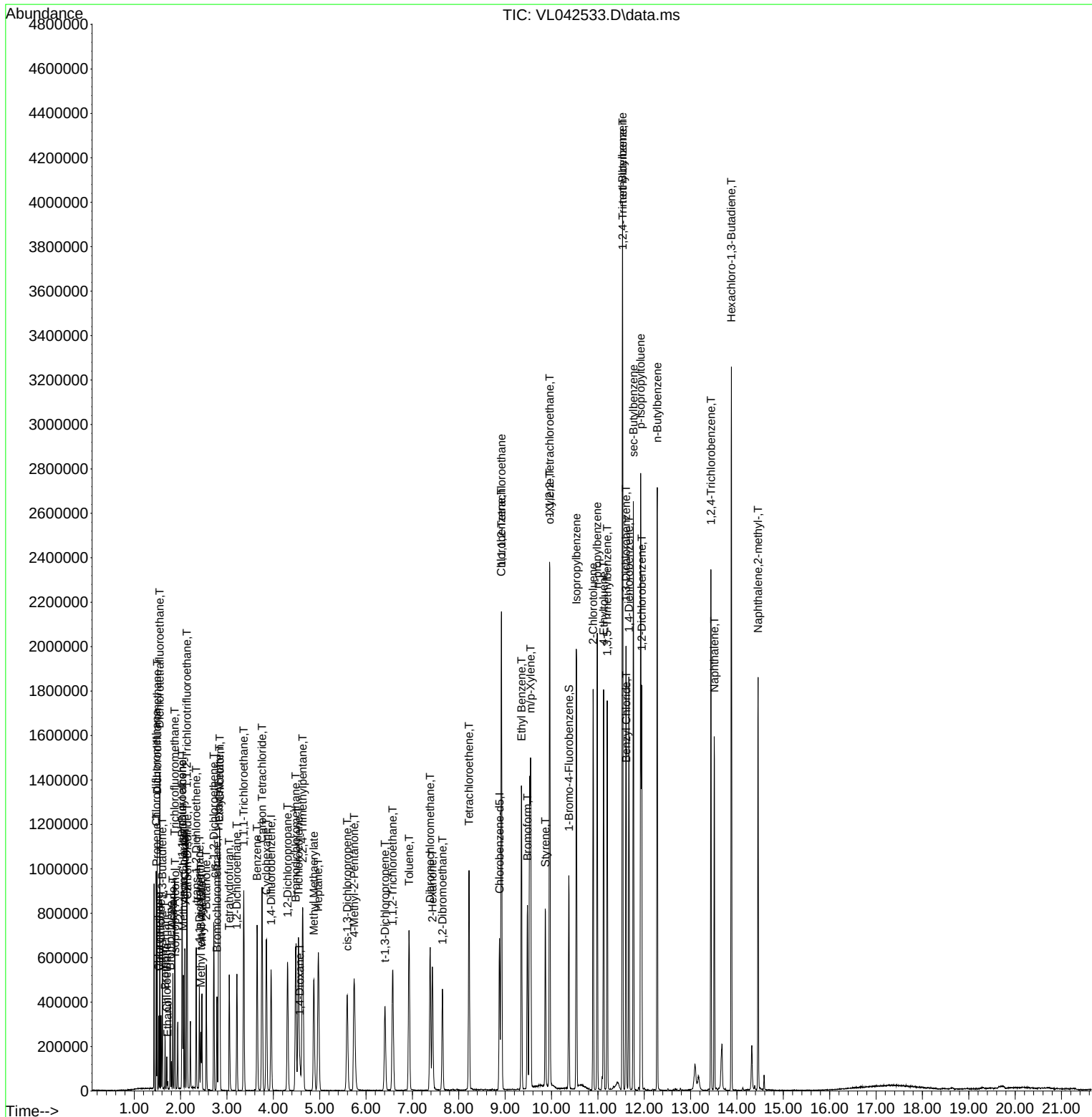
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015

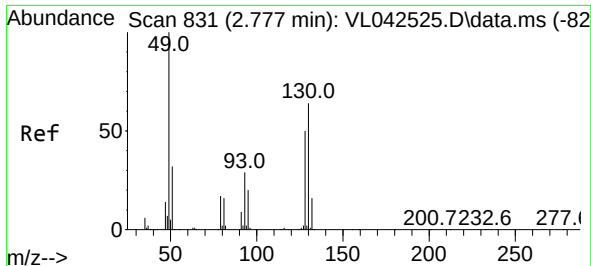
Quant Time: May 12 23:51:20 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Mon May 12 23:42:45 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	267742	18.975	ppbv	96
47) 1,1,2-Trichloroethane	6.574	97	183088	15.225	ppbv	96
48) Dibromochloromethane	7.383	129	334374	16.641	ppbv	98
49) Bromoform	9.480	173	279015	16.922	ppbv	99
50) 4-Methyl-2-Pentanone	5.745	43	445638	18.621	ppbv	100
51) 2-Hexanone	7.431	43	367397	20.654	ppbv #	97
52) Tetrachloroethene	8.221	164	165300	15.639	ppbv	93
53) Toluene	6.927	91	522877	19.420	ppbv	100
54) 1,2-Dibromoethane	7.648	107	290801	16.547	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.920	131	253110	14.589	ppbv	98
57) Chlorobenzene	8.917	112	423059	15.057	ppbv	99
58) Ethyl Benzene	9.351	91	757160	19.852	ppbv	95
59) m/p-Xylene	9.548	91	595097	17.539	ppbv #	100
60) o-Xylene	9.962	91	618234	18.698	ppbv	99
61) Styrene	9.869	104	269609	22.137	ppbv	97
62) Isopropylbenzene	10.535	105	902388	18.112	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.959	83	380582	14.351	ppbv	99
64) n-propylbenzene	10.985	120	230244	18.238	ppbv	99
65) tert-Butylbenzene	11.529	119	827491	18.087	ppbv	100
66) Benzyl Chloride	11.613	91	106741	17.633	ppbv #	98
67) sec-Butylbenzene	11.765	105	1120950	17.089	ppbv	99
69) p-Isopropyltoluene	11.924	119	983988	18.247	ppbv	99
70) n-Butylbenzene	12.280	91	974868	18.295	ppbv	100
71) 2-Chlorotoluene	10.898	91	703053	18.636	ppbv	99
72) 4-Ethyltoluene	11.124	105	777799	18.954	ppbv	99
73) 1,3,5-Trimethylbenzene	11.202	105	654009	18.296	ppbv	97
74) 1,2,4-Trimethylbenzene	11.535	105	725454	16.496	ppbv	98
75) 1,3-Dichlorobenzene	11.607	146	432126	15.690	ppbv	99
76) 1,4-Dichlorobenzene	11.668	146	429425	16.387	ppbv	100
77) 1,2-Dichlorobenzene	11.947	146	412453	14.497	ppbv	99
78) Hexachloro-1,3-Butadiene	13.879	225	339749	13.928	ppbv	100
79) Naphthalene	13.510	128	708419	23.333	ppbv	98
80) Naphthalene,2-methyl-	14.455	142	506723	28.683	ppbv	99
81) 1,2,4-Trichlorobenzene	13.439	180	368964	19.904	ppbv	100

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

Quant Time: May 12 23:51:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Mon May 12 23:42:45 2025
Response via : Initial Calibration

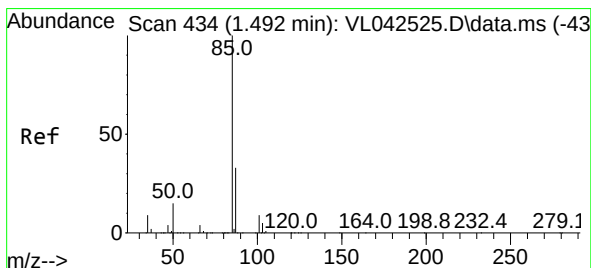
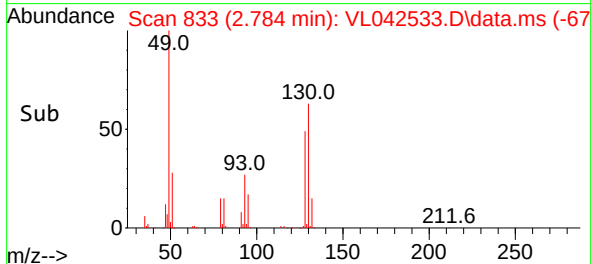
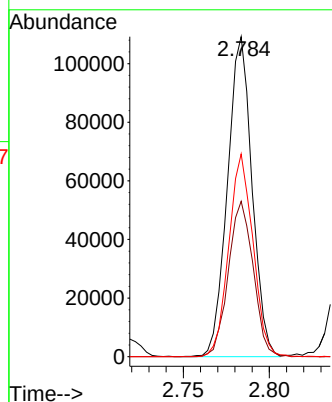
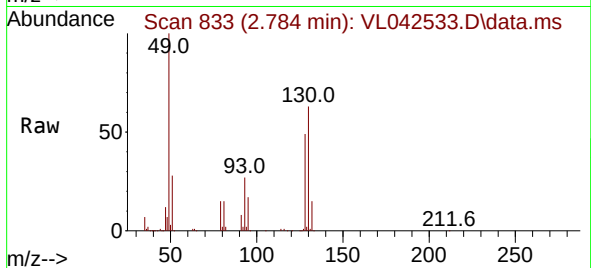




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. 0.007 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

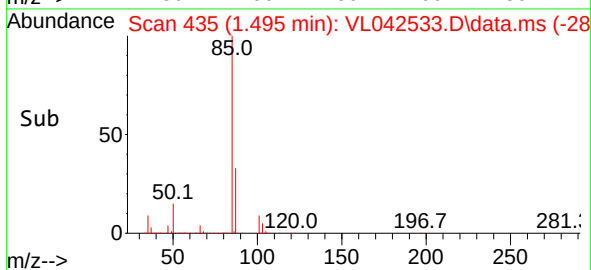
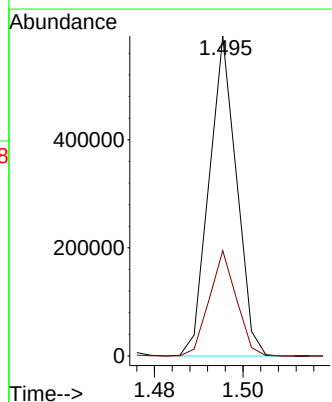
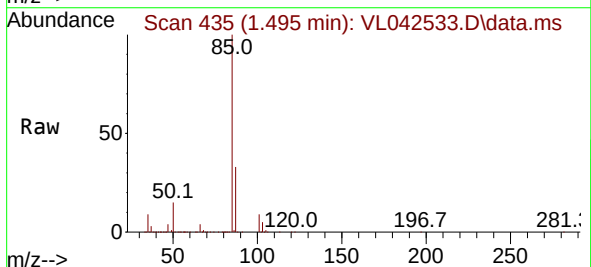
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

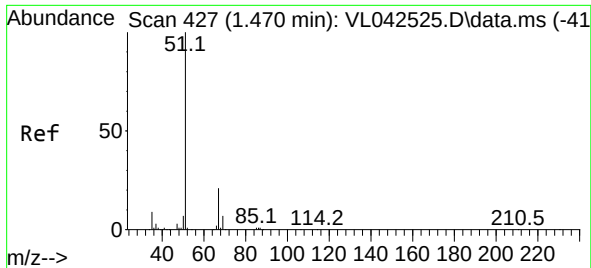
Tgt Ion: 49 Resp: 108558
Ion Ratio Lower Upper
49 100
128 49.0 24.9 74.6
130 62.4 32.5 97.5



#2
Dichlorodifluoromethane
Concen: 14.463 ppbv
RT: 1.495 min Scan# 435
Delta R.T. 0.003 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

Tgt Ion: 85 Resp: 254959
Ion Ratio Lower Upper
85 100
87 32.9 26.8 40.2

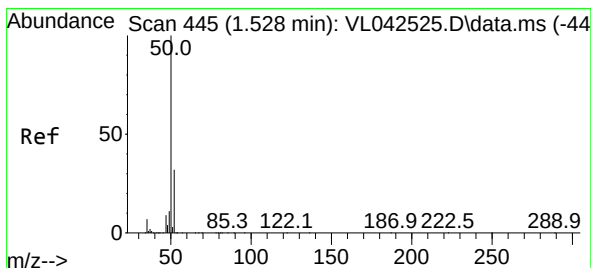
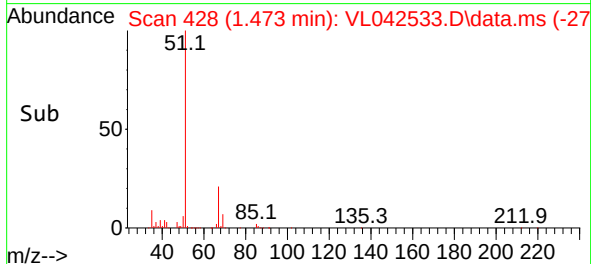
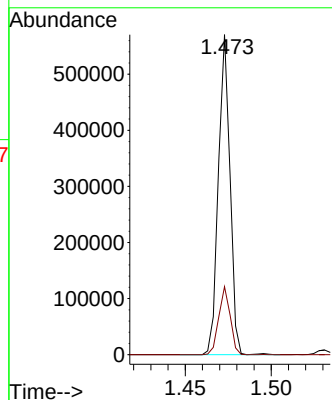
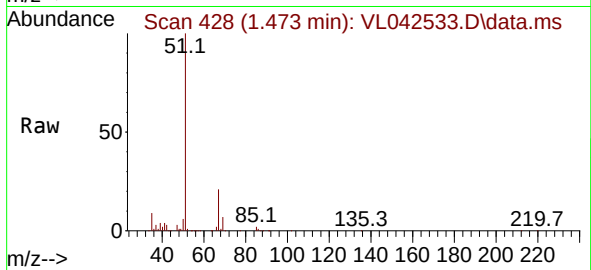




#3
Chlorodifluoromethane
Concen: 14.850 ppbv
RT: 1.473 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

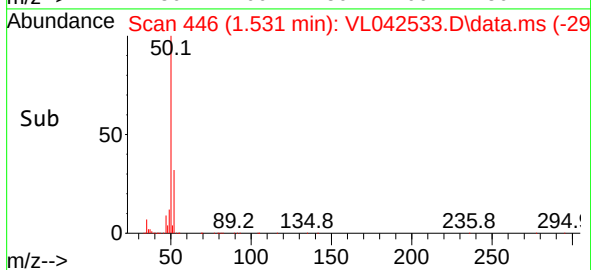
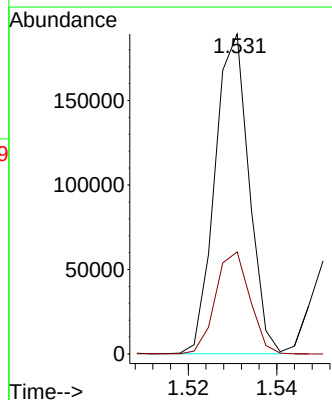
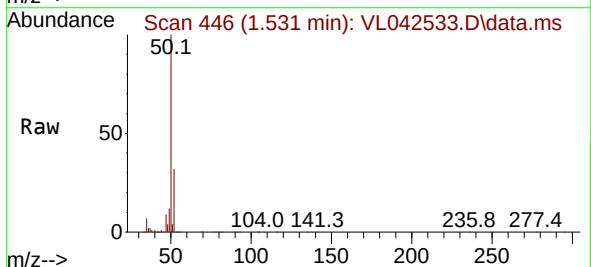
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

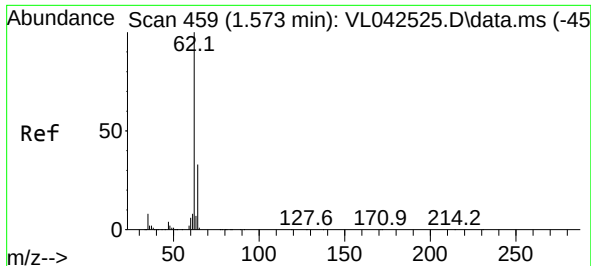
Tgt Ion: 51 Resp: 266796
Ion Ratio Lower Upper
51 100
67 21.0 17.4 26.0



#4
Chloromethane
Concen: 14.056 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.003 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

Tgt Ion: 50 Resp: 101130
Ion Ratio Lower Upper
50 100
52 31.9 25.9 38.9

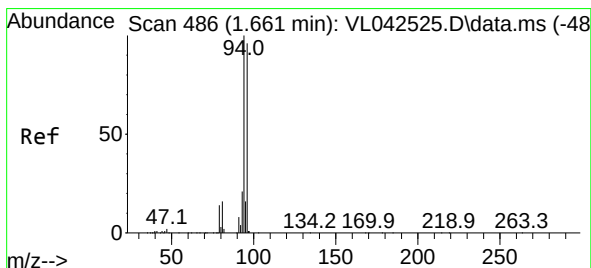
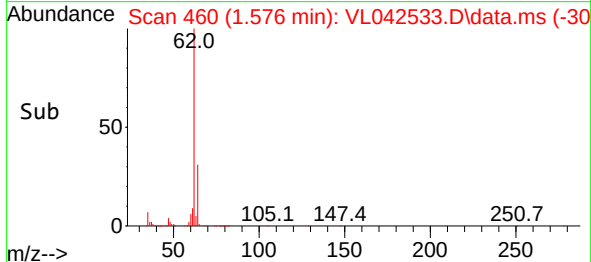
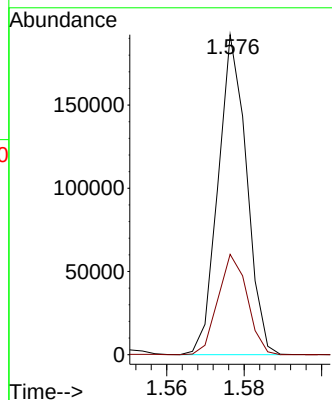
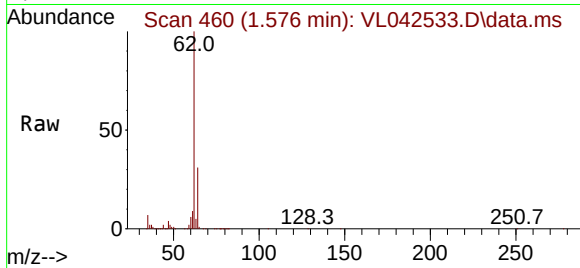




#5
 Vinyl Chloride
 Concen: 13.331 ppbv
 RT: 1.576 min Scan# 459
 Delta R.T. 0.003 min
 Lab File: VL042533.D
 Acq: 12 May 2025 14:28

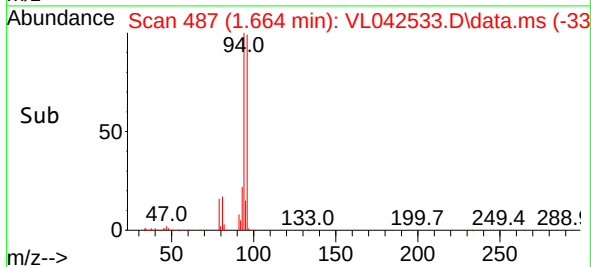
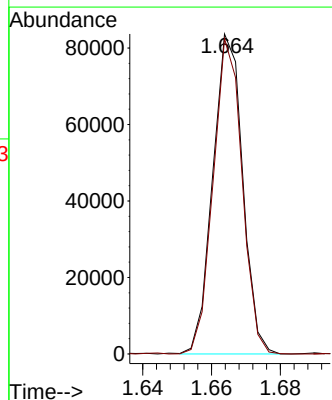
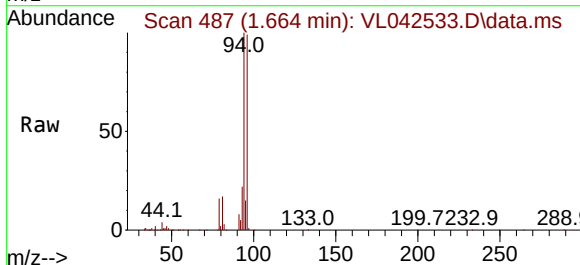
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC015

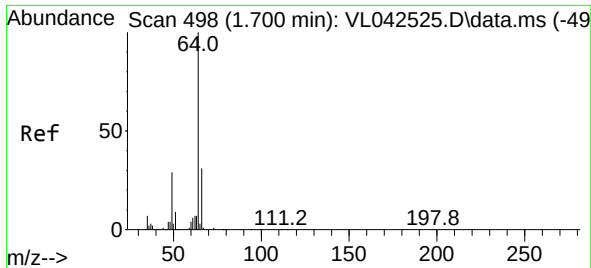
Tgt Ion: 62 Resp: 98136
 Ion Ratio Lower Upper
 62 100
 64 31.4 26.5 39.7



#6
 Bromomethane
 Concen: 14.424 ppbv
 RT: 1.664 min Scan# 487
 Delta R.T. 0.003 min
 Lab File: VL042533.D
 Acq: 12 May 2025 14:28

Tgt Ion: 94 Resp: 50426
 Ion Ratio Lower Upper
 94 100
 96 98.5 76.9 115.3

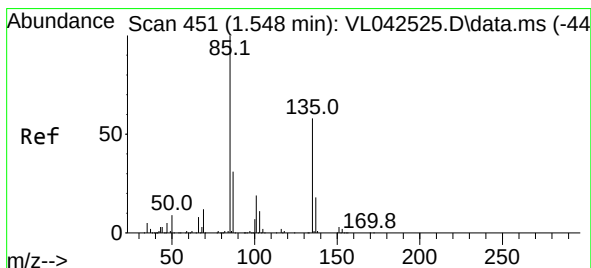
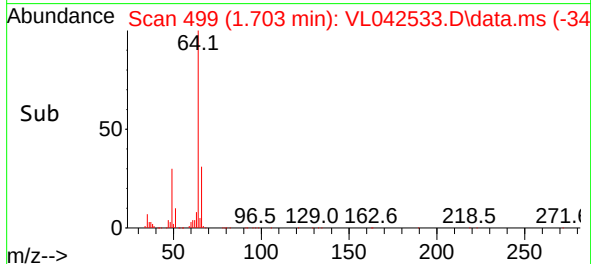
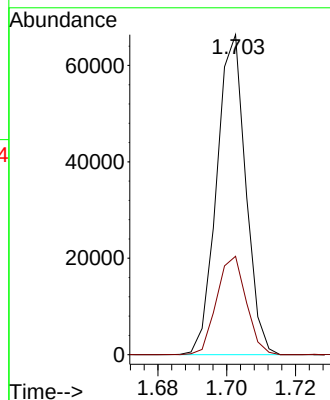
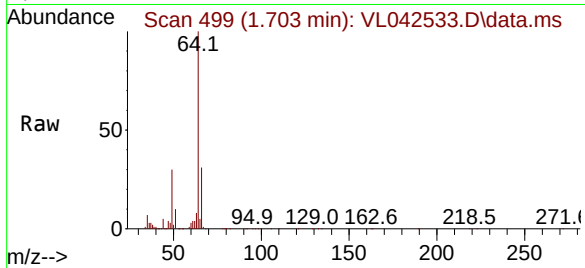




#7
Chloroethane
Concen: 13.411 ppbv
RT: 1.703 min Scan# 499
Delta R.T. 0.003 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

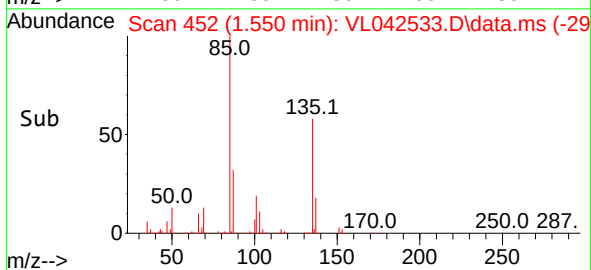
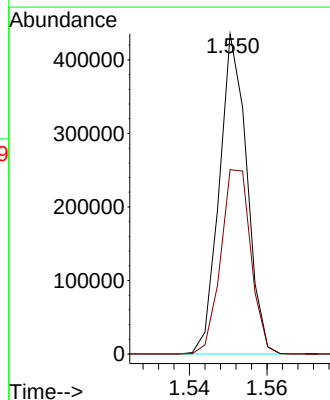
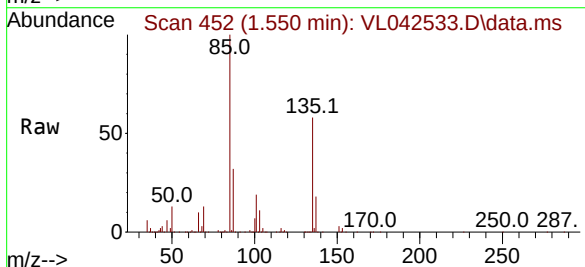
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

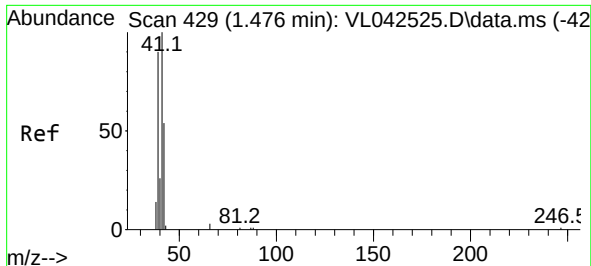
Tgt Ion: 64 Resp: 38860
Ion Ratio Lower Upper
64 100
66 30.7 25.1 37.7



#8
Dichlorotetrafluoroethane
Concen: 14.118 ppbv
RT: 1.550 min Scan# 452
Delta R.T. 0.003 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

Tgt Ion: 85 Resp: 214140
Ion Ratio Lower Upper
85 100
135 63.4 51.8 77.8





#9

Propene

Concen: 25.137 ppbv

RT: 1.479 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042533.D

Acq: 12 May 2025 14:28

Instrument :

MSVOA_1

ClientSampleId :

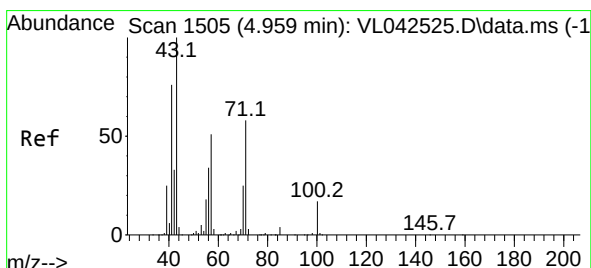
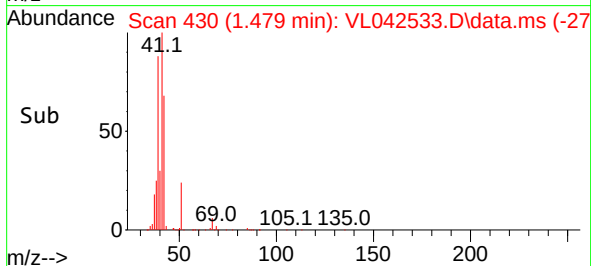
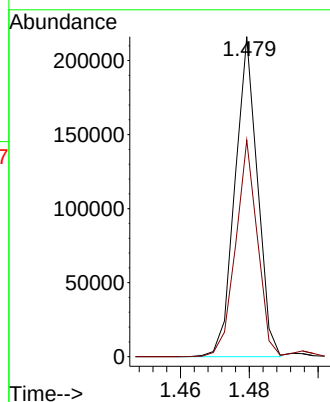
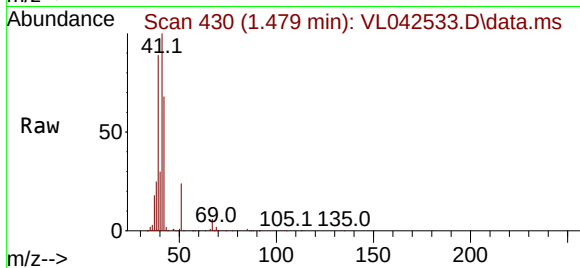
VSTDIC015

Tgt Ion: 41 Resp: 98085

Ion Ratio Lower Upper

41 100

42 67.7 4.1 6.1#



#10

Heptane

Concen: 18.334 ppbv

RT: 4.968 min Scan# 1508

Delta R.T. 0.009 min

Lab File: VL042533.D

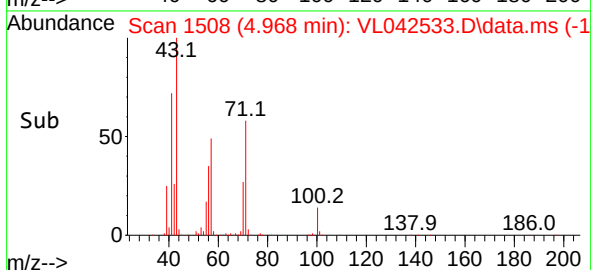
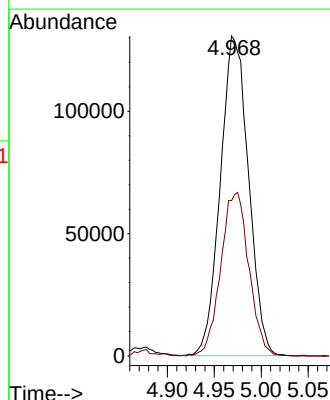
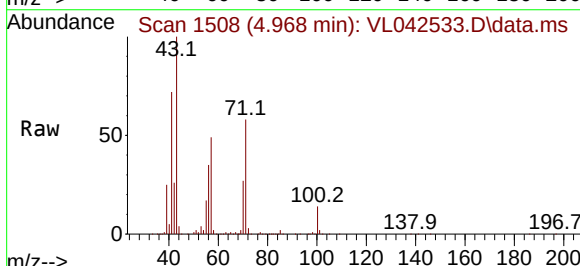
Acq: 12 May 2025 14:28

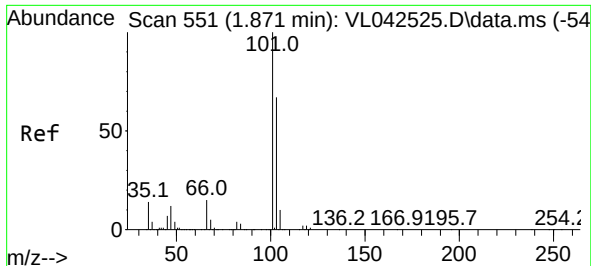
Tgt Ion: 43 Resp: 272741

Ion Ratio Lower Upper

43 100

57 51.1 42.1 63.1

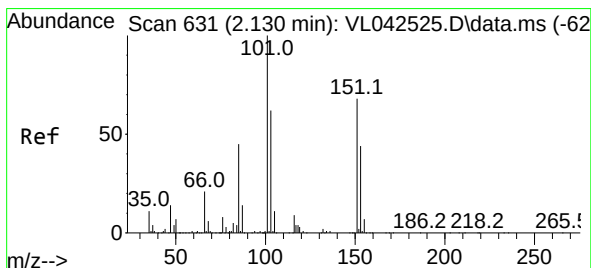
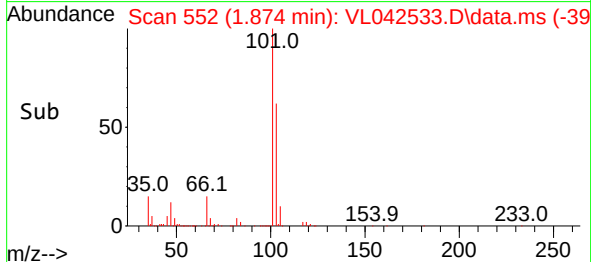
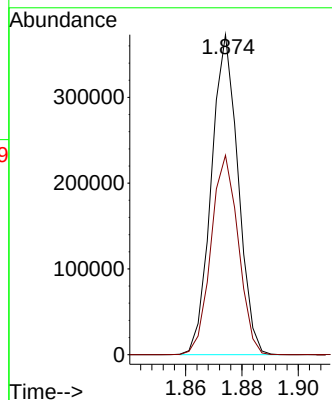
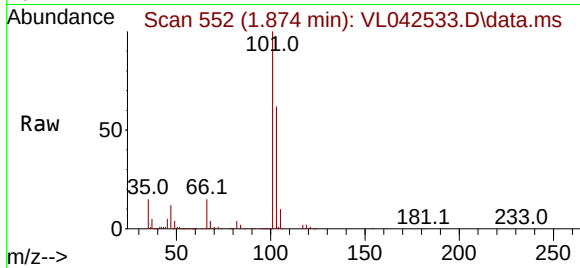




#11
 Trichlorofluoromethane
 Concen: 14.507 ppbv
 RT: 1.874 min Scan# 551
 Delta R.T. 0.003 min
 Lab File: VL042533.D
 Acq: 12 May 2025 14:28

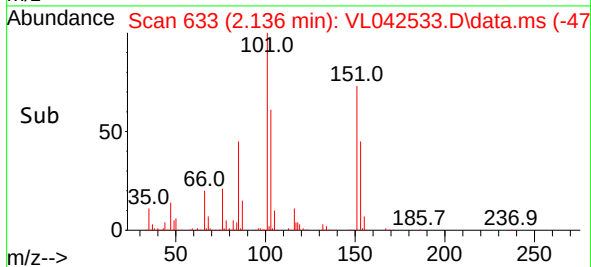
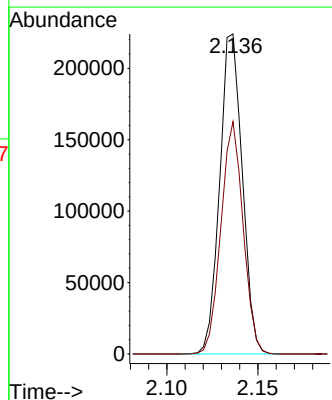
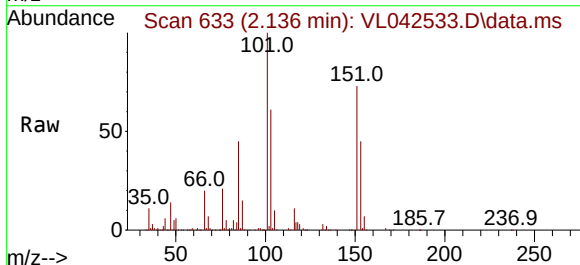
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

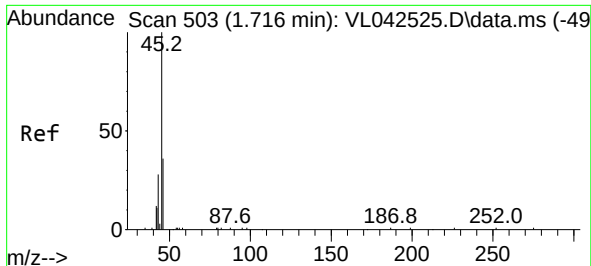
Tgt Ion:101 Resp: 245994
 Ion Ratio Lower Upper
 101 100
 103 62.3 53.8 80.6



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 14.189 ppbv
 RT: 2.136 min Scan# 633
 Delta R.T. 0.006 min
 Lab File: VL042533.D
 Acq: 12 May 2025 14:28

Tgt Ion:101 Resp: 193238
 Ion Ratio Lower Upper
 101 100
 151 71.1 57.8 86.8

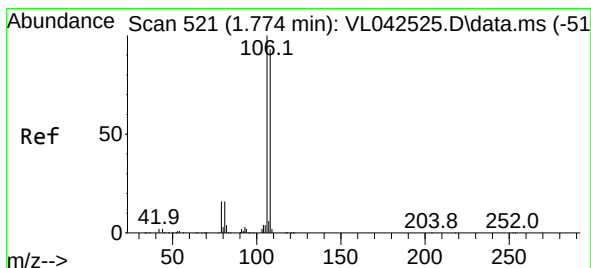
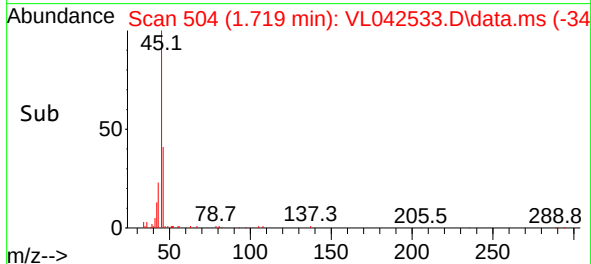
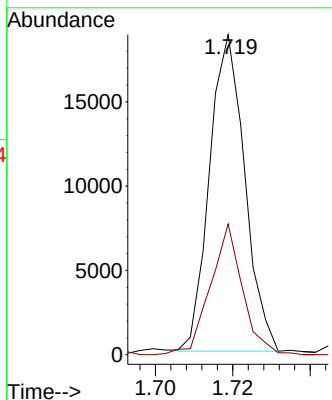
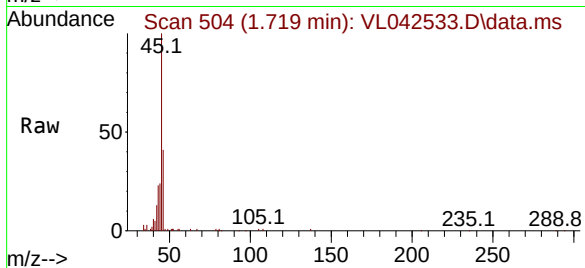




#13
Ethanol
Concen: 11.144 ppbv
RT: 1.719 min Scan# 503
Delta R.T. 0.003 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

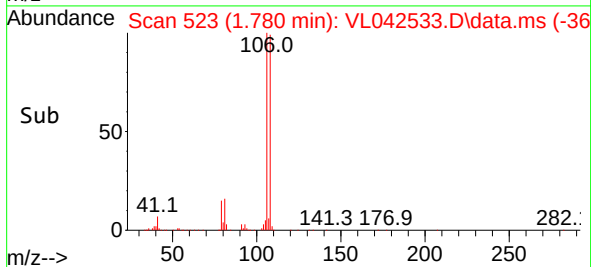
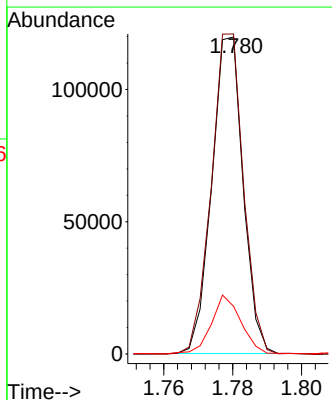
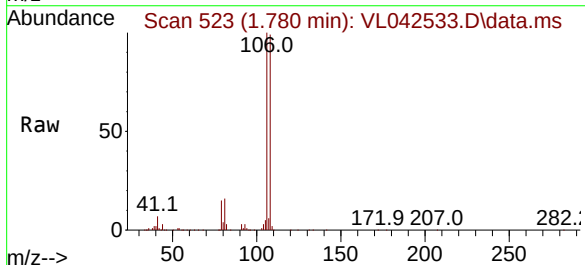
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

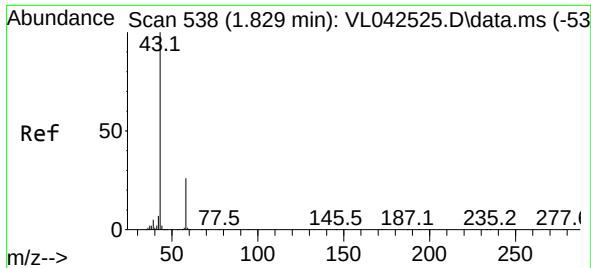
Tgt Ion: 45 Resp: 11869
Ion Ratio Lower Upper
45 100
46 37.6 14.8 59.4



#14
Bromoethene
Concen: 15.192 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.006 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

Tgt Ion: 108 Resp: 75429
Ion Ratio Lower Upper
108 100
106 104.0 87.4 131.2
79 18.7 15.1 22.7

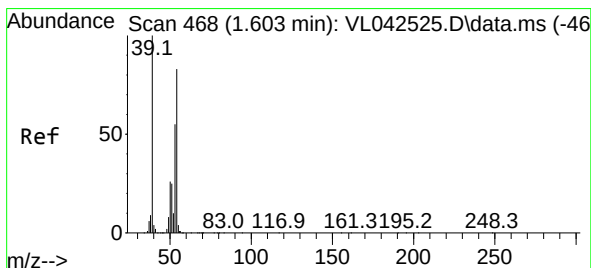
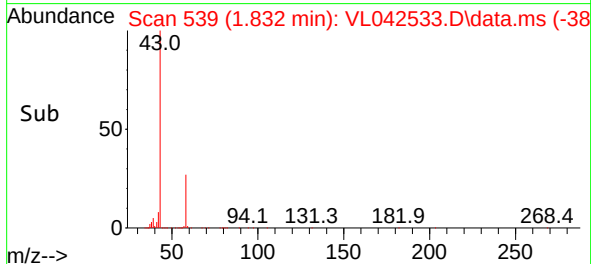
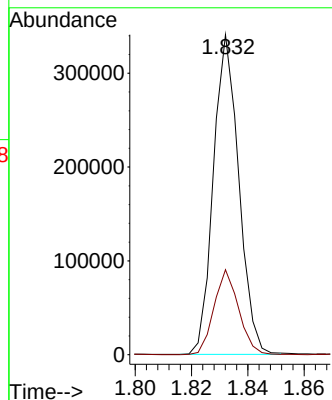
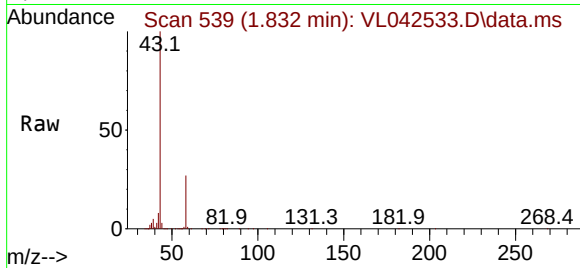




#15
Acetone
Concen: 12.311 ppbv
RT: 1.832 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

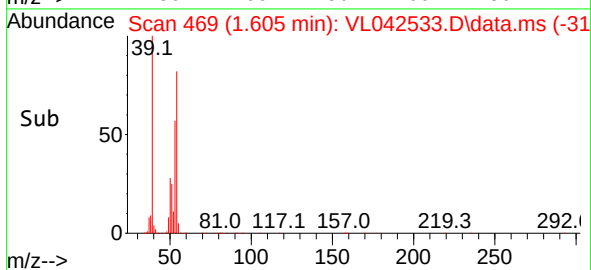
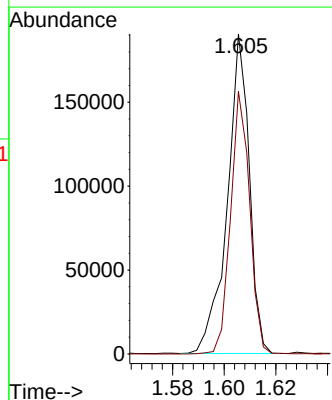
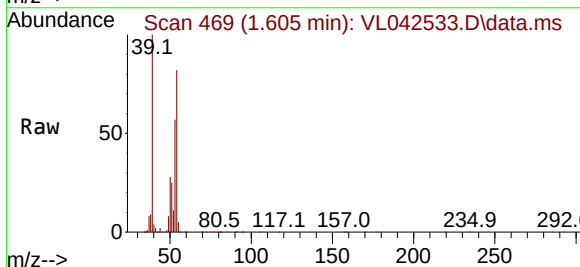
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

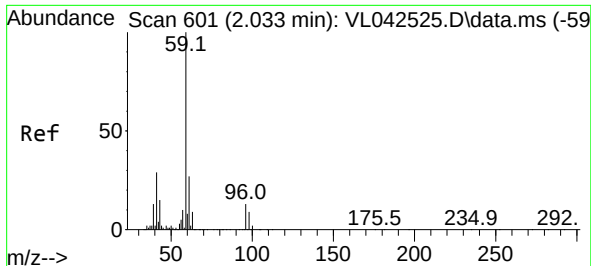
Tgt Ion: 43 Resp: 213564
Ion Ratio Lower Upper
43 100
58 26.0 21.3 31.9



#16
1,3-Butadiene
Concen: 14.460 ppbv
RT: 1.605 min Scan# 469
Delta R.T. 0.003 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

Tgt Ion: 39 Resp: 112792
Ion Ratio Lower Upper
39 100
54 71.3 57.8 86.6





#17

tert-Butyl alcohol

Concen: 14.380 ppbv

RT: 2.036 min Scan# 601

Delta R.T. 0.003 min

Lab File: VL042533.D

Acq: 12 May 2025 14:28

Instrument :

MSVOA_L

ClientSampleId :

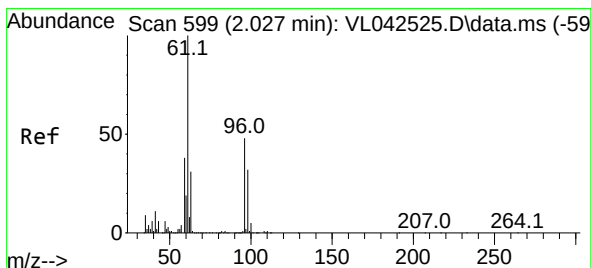
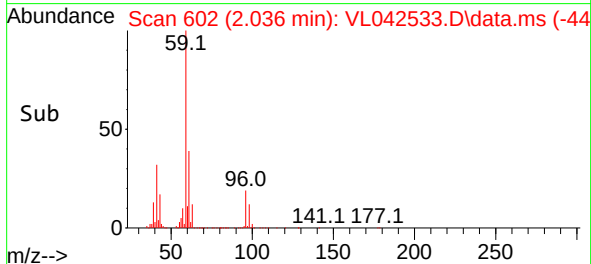
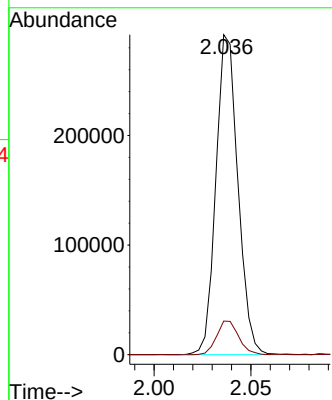
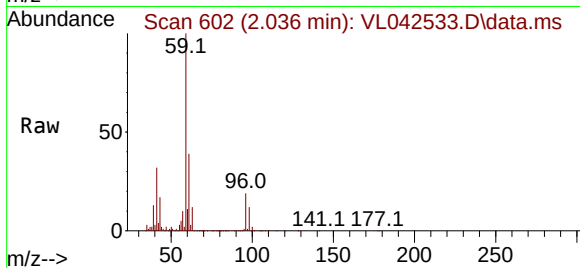
VSTDIC015

Tgt Ion: 59 Resp: 230498

Ion Ratio Lower Upper

59 100

57 10.7 8.2 12.4



#18

1,1-Dichloroethene

Concen: 14.567 ppbv

RT: 2.029 min Scan# 600

Delta R.T. 0.003 min

Lab File: VL042533.D

Acq: 12 May 2025 14:28

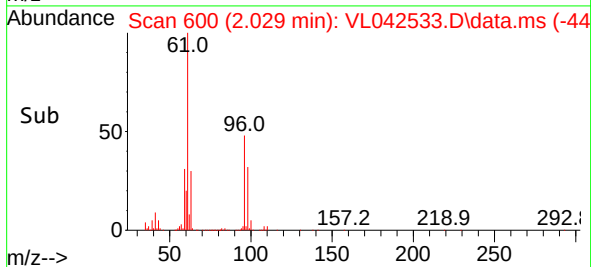
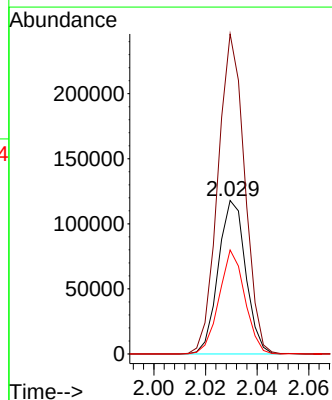
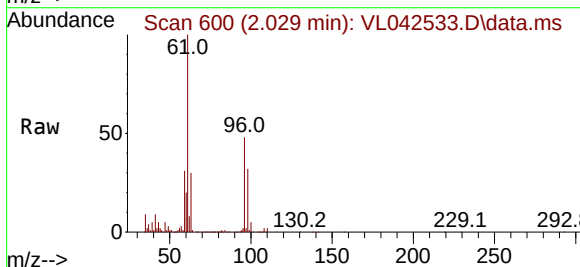
Tgt Ion: 96 Resp: 86943

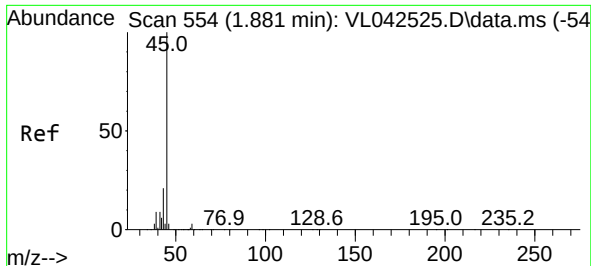
Ion Ratio Lower Upper

96 100

61 208.5 165.0 247.4

98 67.7 52.6 79.0

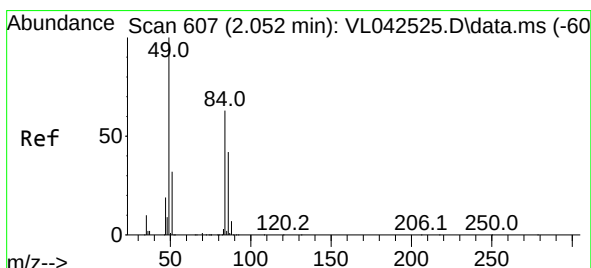
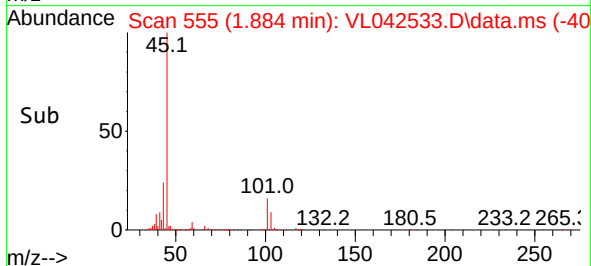
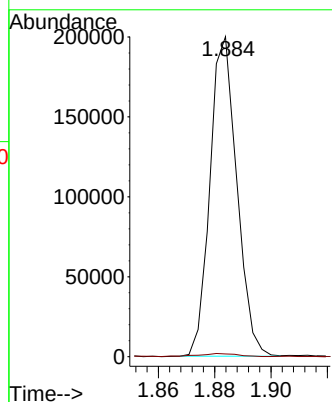
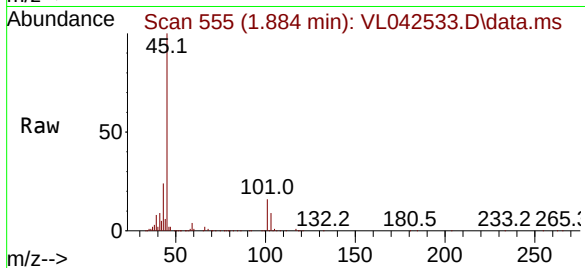




#19
Isopropyl Alcohol
Concen: 14.052 ppbv
RT: 1.884 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

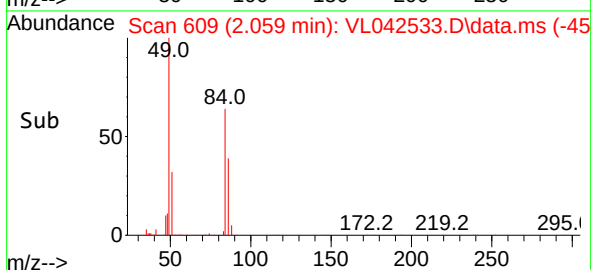
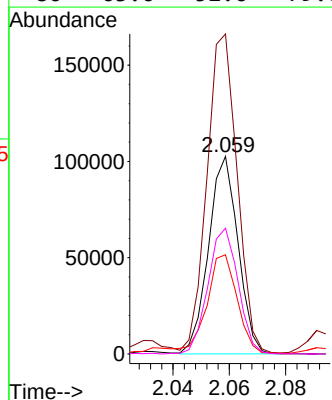
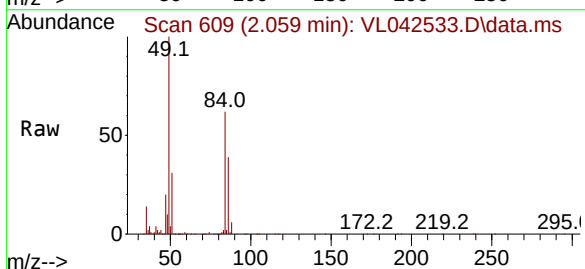
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

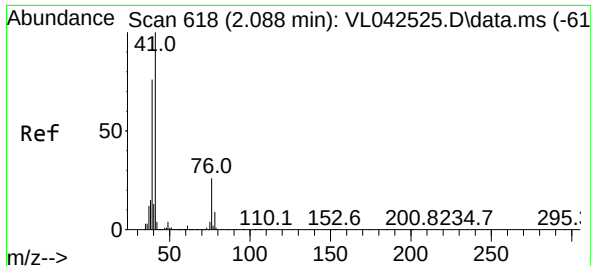
Tgt Ion: 45 Resp: 132417
Ion Ratio Lower Upper
45 100
58 41.9 1.5 2.3#



#20
Methylene Chloride
Concen: 12.354 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.006 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

Tgt Ion: 84 Resp: 74621
Ion Ratio Lower Upper
84 100
49 161.6 128.2 192.4
51 49.9 41.7 62.5
86 63.6 52.6 79.0

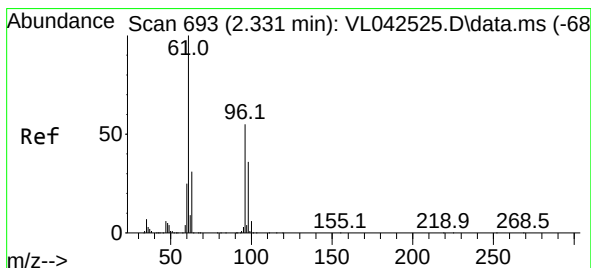
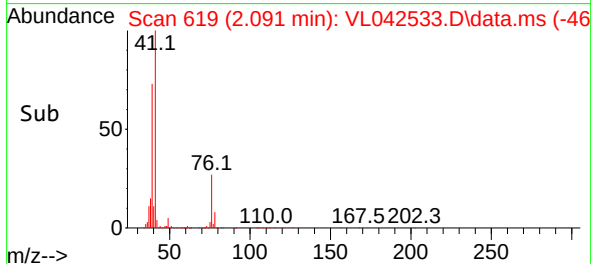
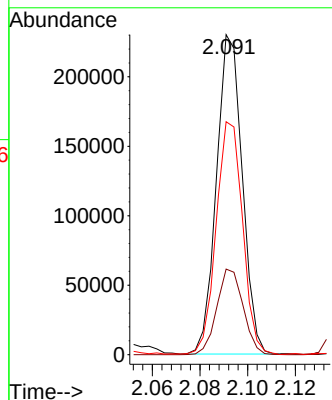
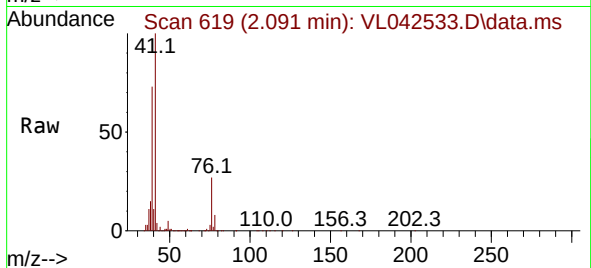




#21
 Allyl Chloride
 Concen: 15.028 ppbv
 RT: 2.091 min Scan# 618
 Delta R.T. 0.003 min
 Lab File: VL042533.D
 Acq: 12 May 2025 14:28

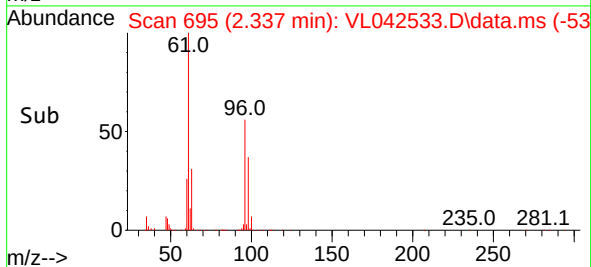
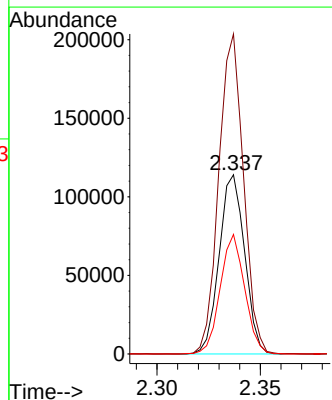
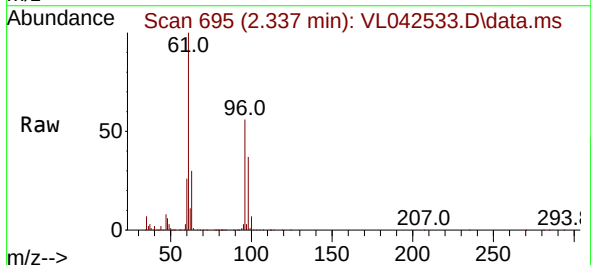
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

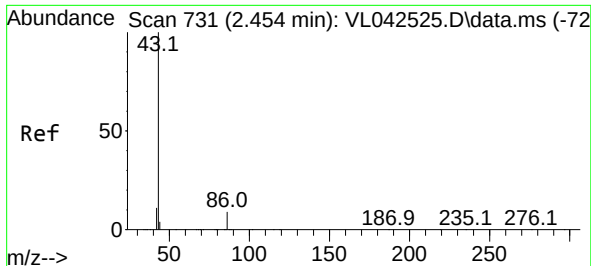
Tgt Ion: 41 Resp: 172596
 Ion Ratio Lower Upper
 41 100
 76 27.4 22.0 33.0
 39 74.2 59.5 89.3



#22
 trans-1,2-Dichloroethene
 Concen: 13.994 ppbv
 RT: 2.337 min Scan# 695
 Delta R.T. 0.006 min
 Lab File: VL042533.D
 Acq: 12 May 2025 14:28

Tgt Ion: 96 Resp: 97705
 Ion Ratio Lower Upper
 96 100
 61 178.5 145.9 218.9
 98 66.7 52.2 78.4



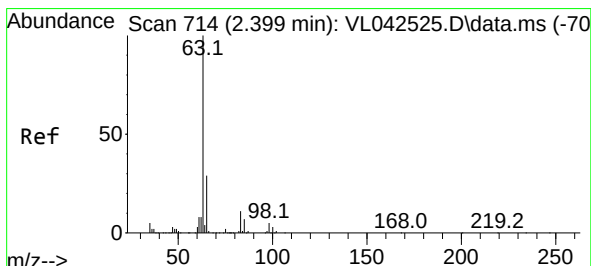
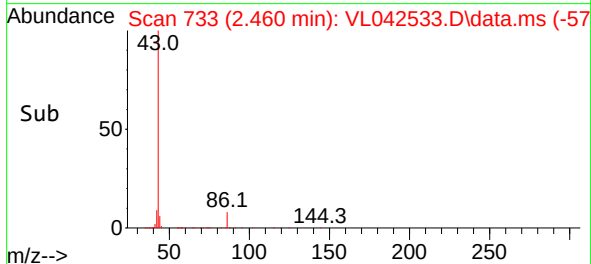
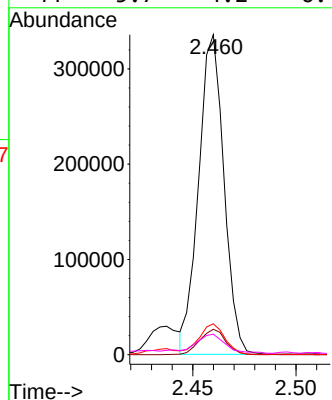
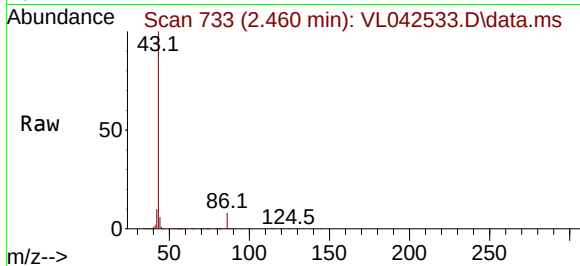


#23
 Vinyl Acetate
 Concen: 15.744 ppbv
 RT: 2.460 min Scan# 716
 Delta R.T. 0.006 min
 Lab File: VL042533.D
 Acq: 12 May 2025 14:28

Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC015

Tgt Ion: 43 Resp: 285911

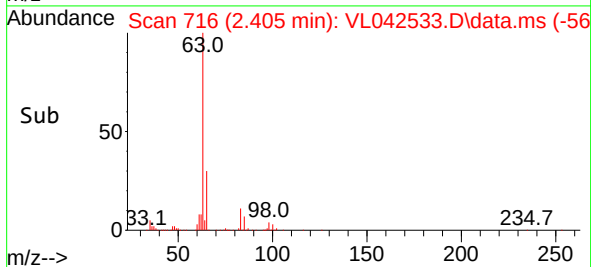
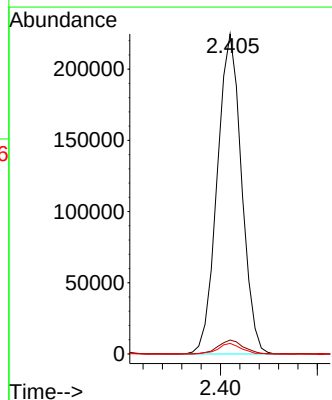
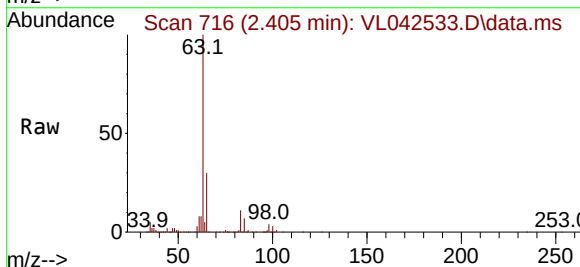
Ion	Ratio	Lower	Upper
43	100		
86	8.0	6.8	10.2
42	9.5	8.8	13.2
44	5.7	4.2	6.4

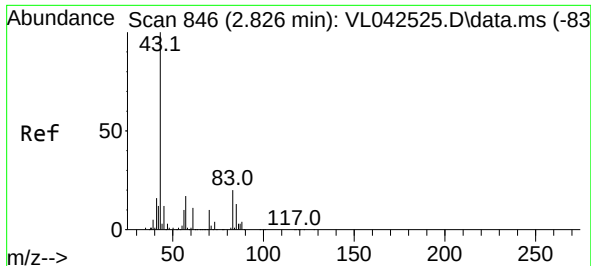


#24
 1,1-Dichloroethane
 Concen: 14.512 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. 0.006 min
 Lab File: VL042533.D
 Acq: 12 May 2025 14:28

Tgt Ion: 63 Resp: 196043

Ion	Ratio	Lower	Upper
63	100		
98	4.4	2.6	8.0
100	3.3	1.4	4.2

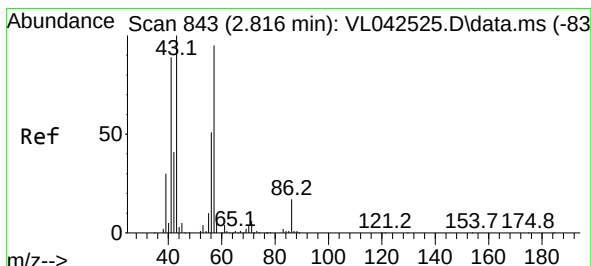
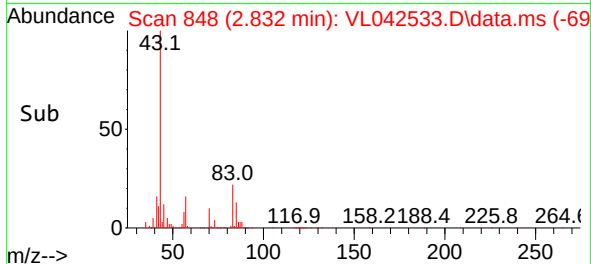
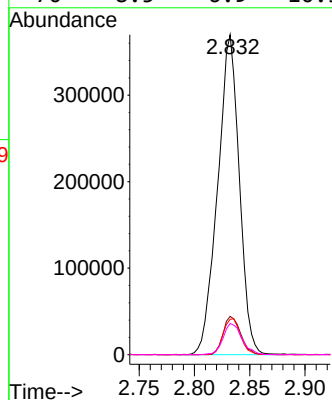
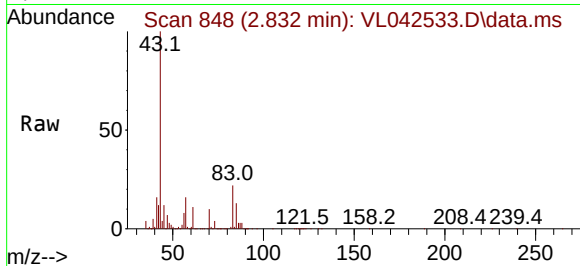




#25
Ethyl Acetate
Concen: 16.525 ppbv
RT: 2.832 min Scan# 846
Delta R.T. 0.006 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

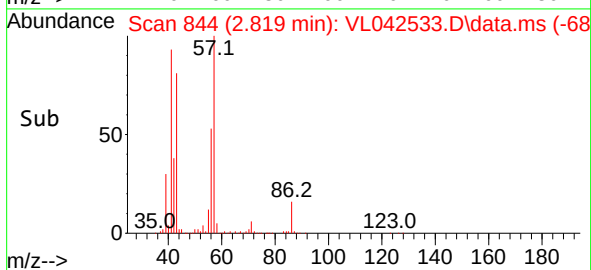
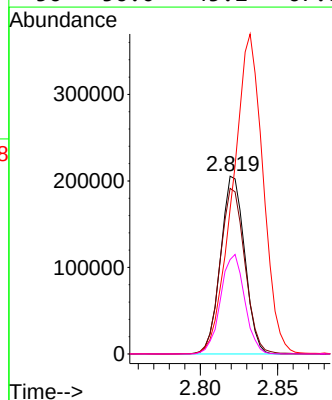
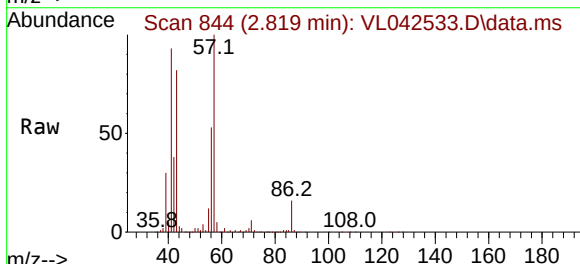
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

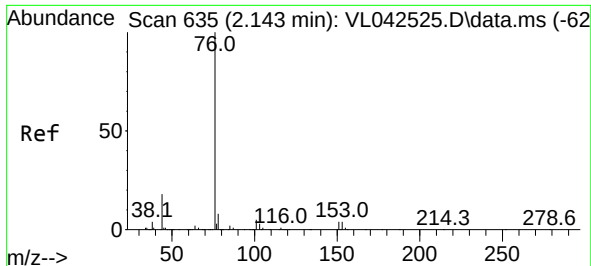
Tgt Ion: 43	Resp: 503336
Ion Ratio	Lower Upper
43 100	
45 9.8	7.9 11.9
61 9.1	7.1 10.7
70 8.5	6.9 10.3



#26
Hexane
Concen: 17.721 ppbv
RT: 2.819 min Scan# 844
Delta R.T. 0.003 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

Tgt Ion: 57	Resp: 221600
Ion Ratio	Lower Upper
57 100	
41 96.6	76.1 114.1
43 227.5	188.9 283.3
56 56.0	45.2 67.8





#27

Carbon Disulfide

Concen: 15.138 ppbv

RT: 2.146 min Scan# 61

Delta R.T. 0.003 min

Lab File: VL042533.D

Acq: 12 May 2025 14:28

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC015

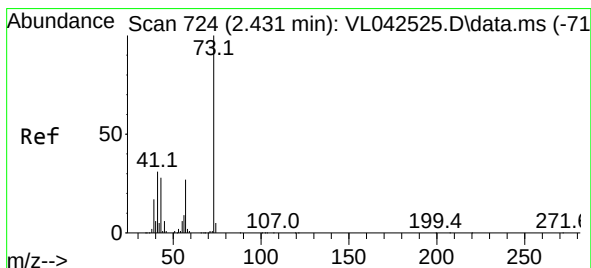
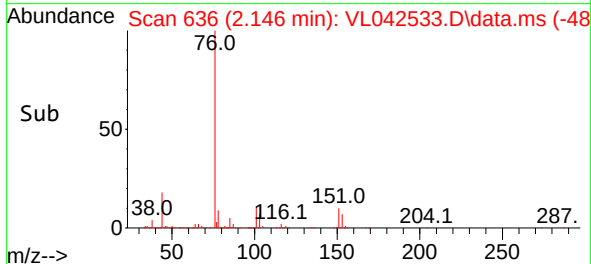
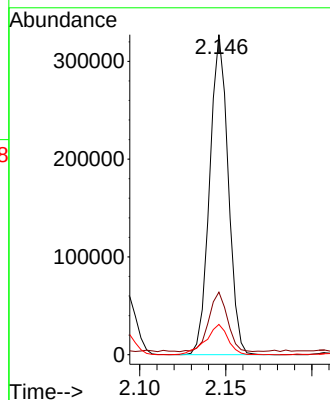
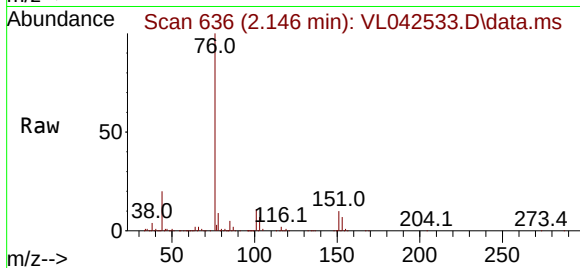
Tgt Ion: 76 Resp: 244368

Ion Ratio Lower Upper

76 100

44 21.3 17.1 25.7

78 11.3 8.6 12.8



#28

Methyl tert-Butyl Ether

Concen: 14.980 ppbv

RT: 2.437 min Scan# 726

Delta R.T. 0.006 min

Lab File: VL042533.D

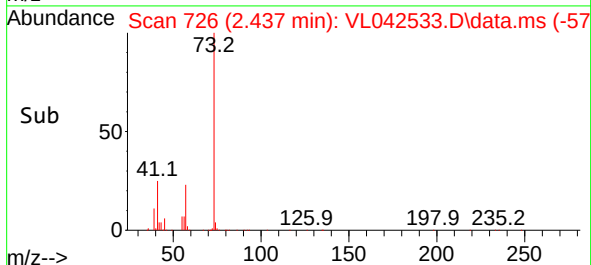
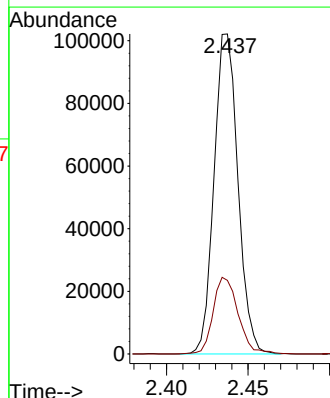
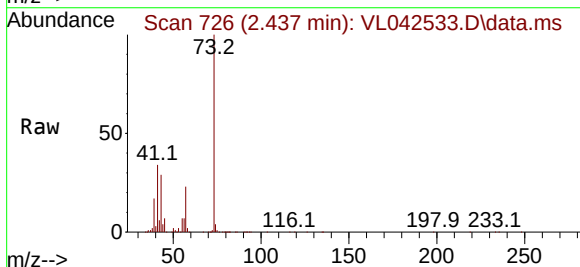
Acq: 12 May 2025 14:28

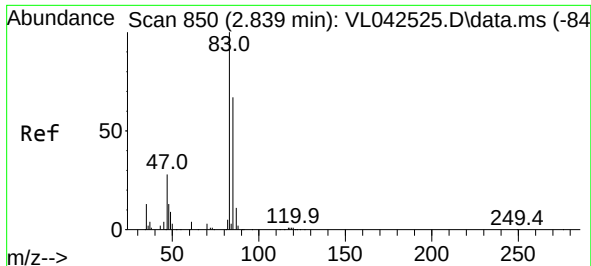
Tgt Ion: 73 Resp: 104072

Ion Ratio Lower Upper

73 100

57 25.1 20.3 30.5





#29

Chloroform

Concen: 14.419 ppbv

RT: 2.845 min Scan# 81

Delta R.T. 0.006 min

Lab File: VL042533.D

Acq: 12 May 2025 14:28

Instrument :

MSVOA_L

ClientSampleId :

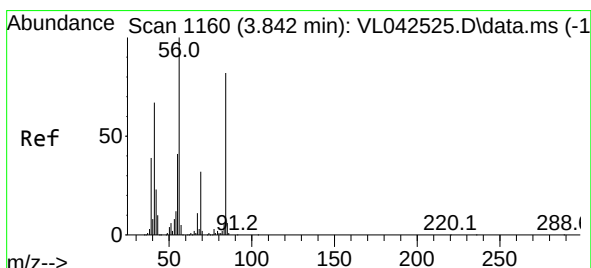
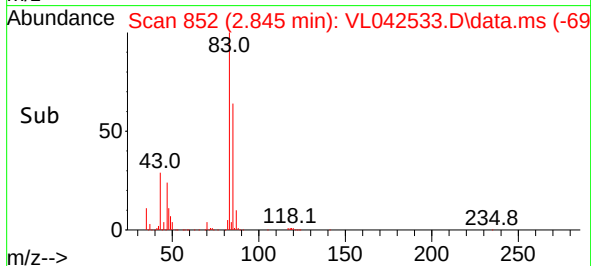
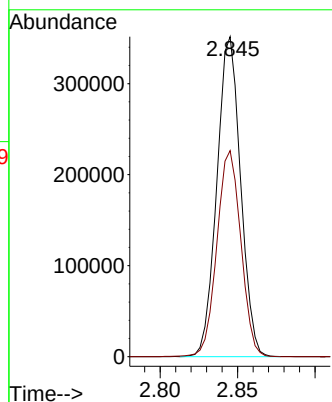
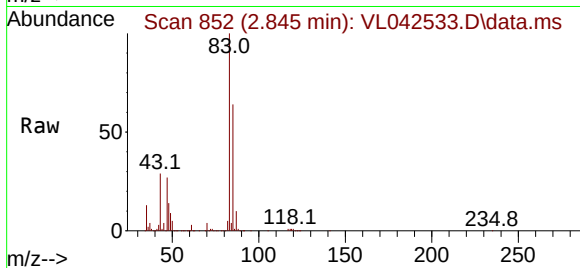
VSTDIC015

Tgt Ion: 83 Resp: 373949

Ion Ratio Lower Upper

83 100

85 64.4 53.5 80.3



#30

Cyclohexane

Concen: 18.321 ppbv

RT: 3.852 min Scan# 1163

Delta R.T. 0.009 min

Lab File: VL042533.D

Acq: 12 May 2025 14:28

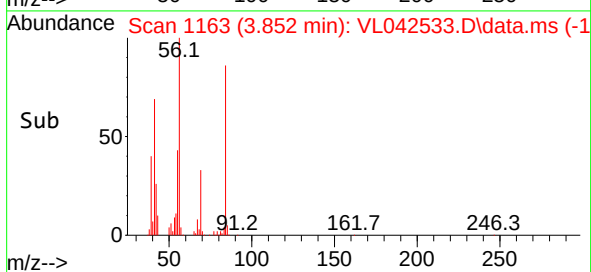
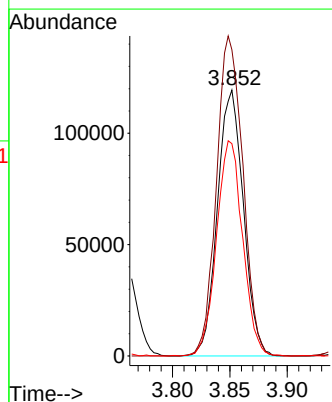
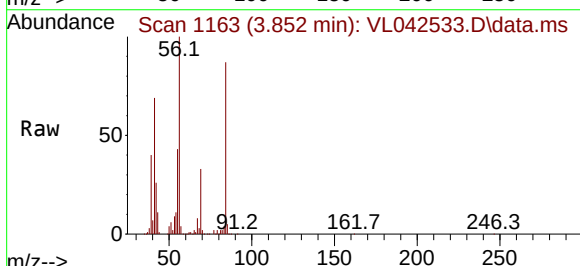
Tgt Ion: 84 Resp: 188093

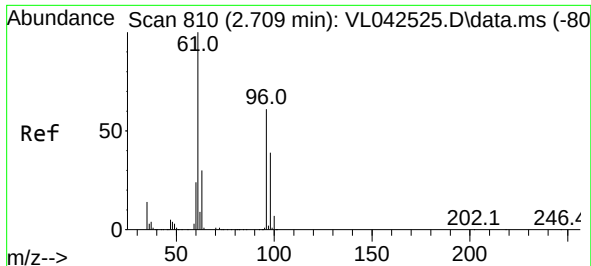
Ion Ratio Lower Upper

84 100

56 122.2 97.1 145.7

41 81.4 66.6 99.8

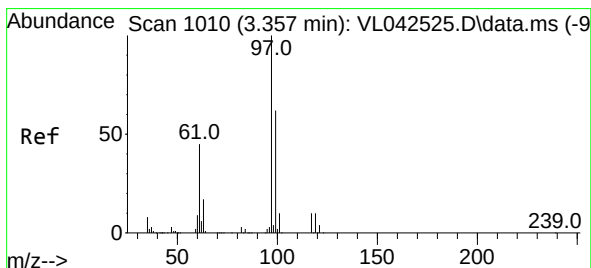
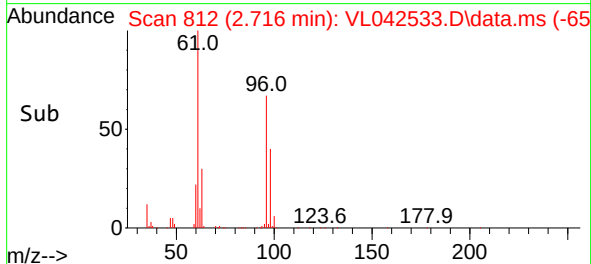
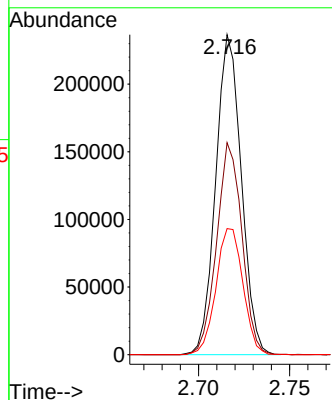
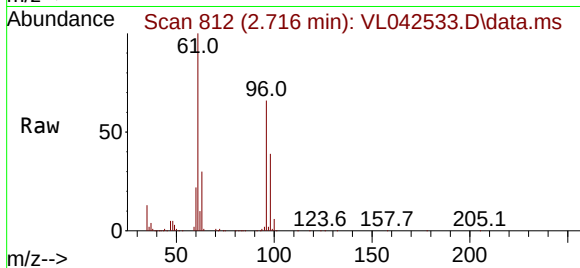




#31
 cis-1,2-Dichloroethene
 Concen: 16.408 ppbv
 RT: 2.716 min Scan# 81
 Delta R.T. 0.006 min
 Lab File: VL042533.D
 Acq: 12 May 2025 14:28

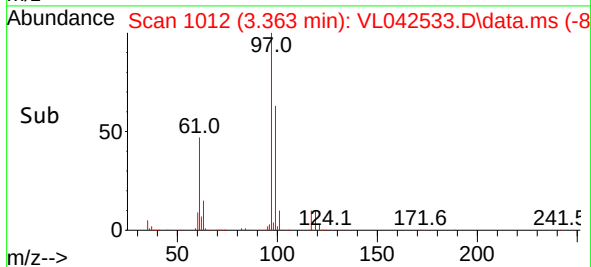
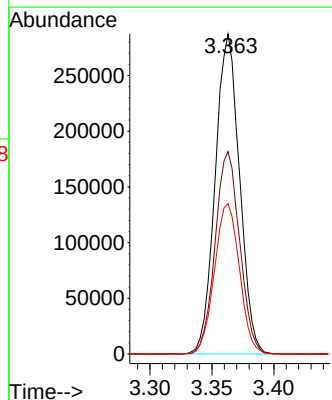
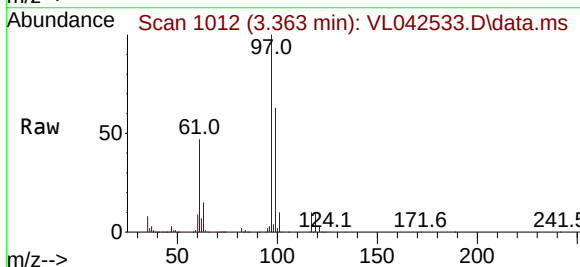
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC015

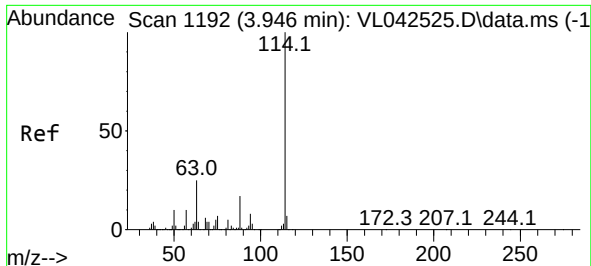
Tgt Ion: 61 Resp: 231689
 Ion Ratio Lower Upper
 61 100
 96 66.2 48.9 73.3
 98 39.4 31.4 47.2



#32
 1,1,1-Trichloroethane
 Concen: 15.027 ppbv
 RT: 3.363 min Scan# 1012
 Delta R.T. 0.006 min
 Lab File: VL042533.D
 Acq: 12 May 2025 14:28

Tgt Ion: 97 Resp: 393153
 Ion Ratio Lower Upper
 97 100
 99 63.8 50.1 75.1
 61 48.3 38.2 57.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. 0.006 min

Lab File: VL042533.D

Acq: 12 May 2025 14:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

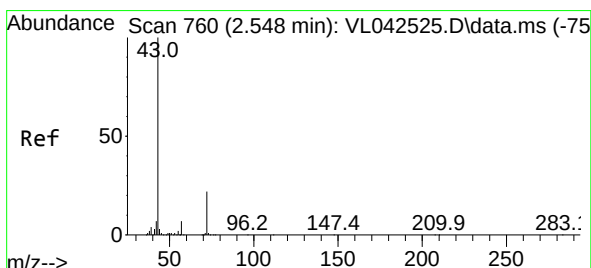
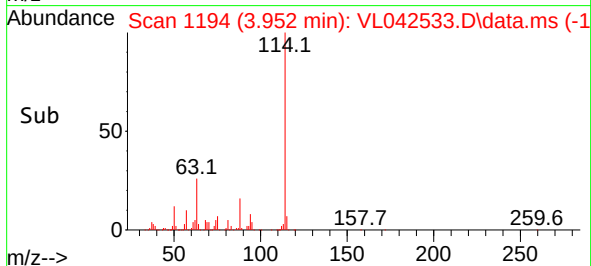
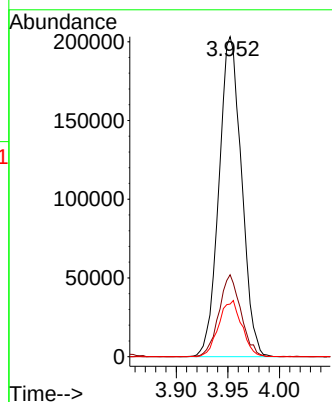
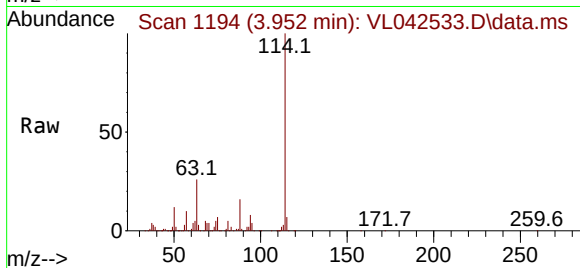
Tgt Ion:114 Resp: 309586

Ion Ratio Lower Upper

114 100

63 25.0 20.4 30.6

88 17.9 14.5 21.7



#34

2-Butanone

Concen: 16.014 ppbv

RT: 2.554 min Scan# 762

Delta R.T. 0.006 min

Lab File: VL042533.D

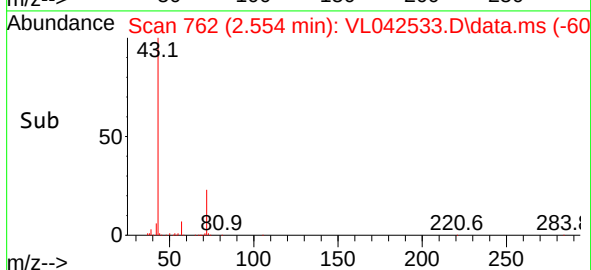
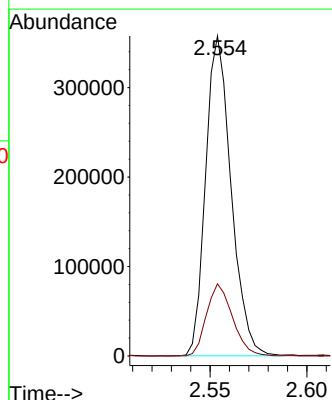
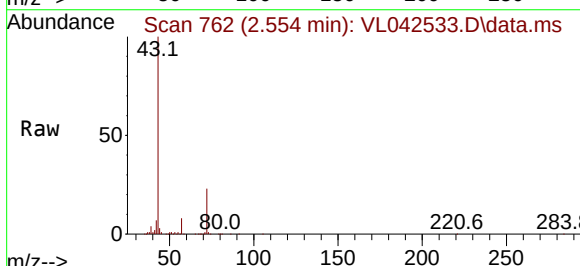
Acq: 12 May 2025 14:28

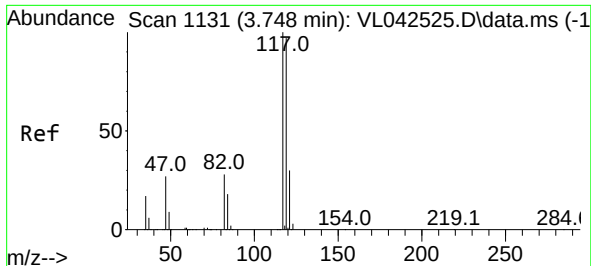
Tgt Ion: 43 Resp: 326787

Ion Ratio Lower Upper

43 100

72 23.1 18.7 28.1

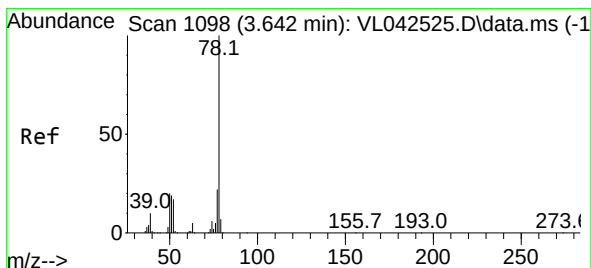
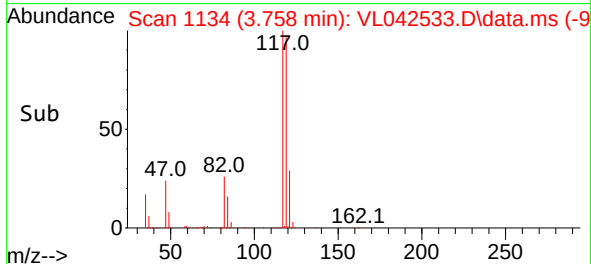
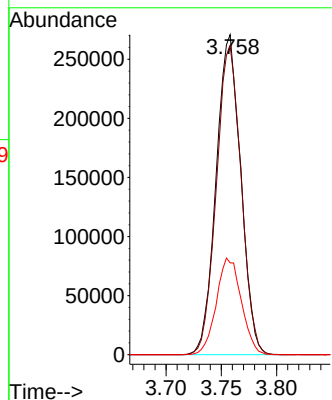
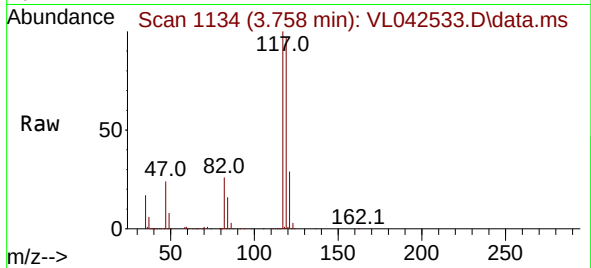




#35
Carbon Tetrachloride
Concen: 15.056 ppbv
RT: 3.758 min Scan# 1131
Delta R.T. 0.009 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

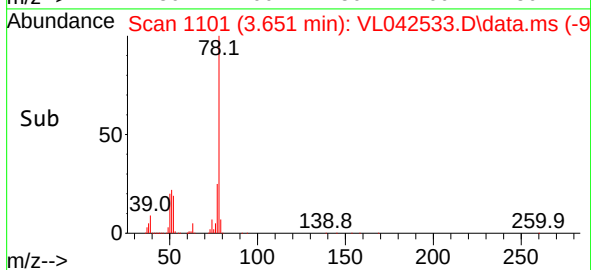
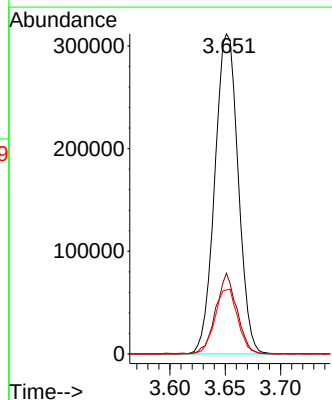
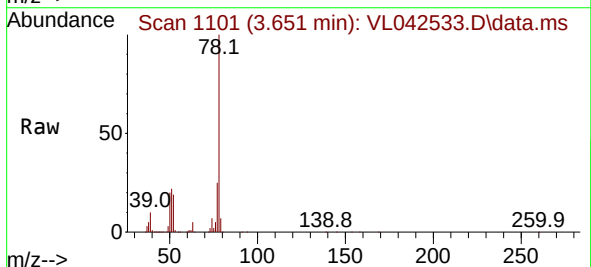
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

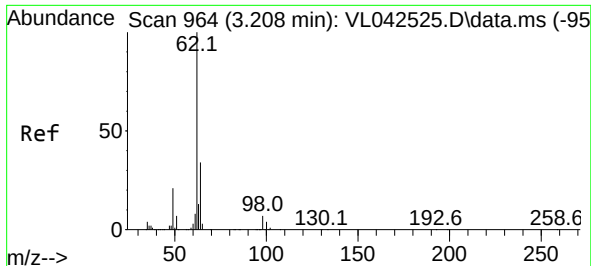
Tgt Ion:117 Resp: 419052
Ion Ratio Lower Upper
117 100
119 96.6 77.7 116.5
121 28.7 24.0 36.0



#36
Benzene
Concen: 16.702 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. 0.009 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

Tgt Ion: 78 Resp: 458244
Ion Ratio Lower Upper
78 100
77 25.2 17.4 26.2
50 20.0 16.3 24.5





#37

1,2-Dichloroethane

Concen: 15.133 ppbv

RT: 3.214 min Scan# 9

Delta R.T. 0.006 min

Lab File: VL042533.D

Acq: 12 May 2025 14:28

Instrument :

MSVOA_L

ClientSampleId :

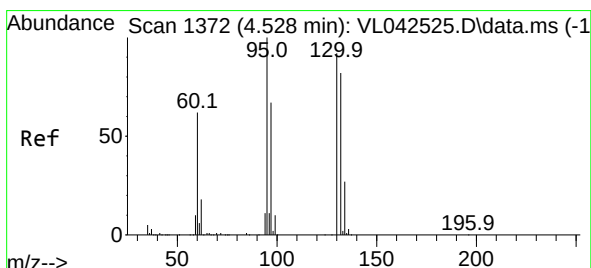
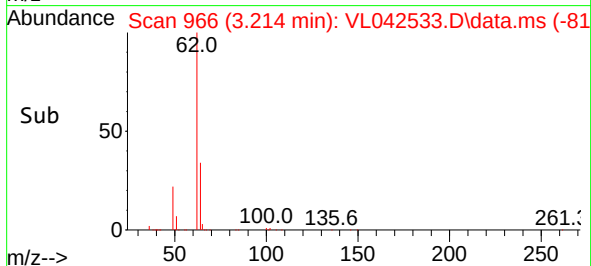
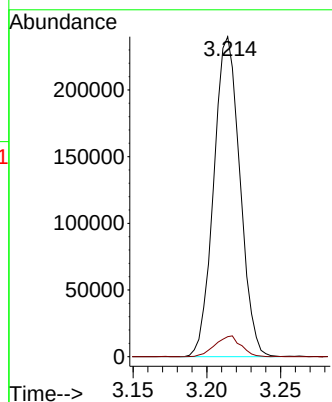
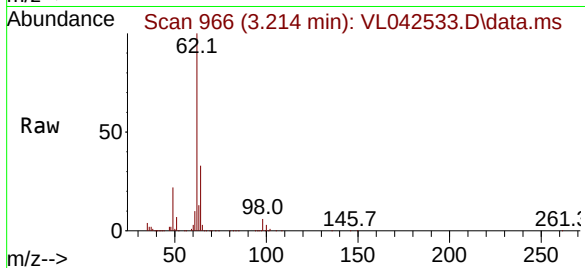
VSTDIC015

Tgt Ion: 62 Resp: 296168

Ion Ratio Lower Upper

62 100

98 6.4 5.0 7.4



#38

Trichloroethene

Concen: 16.255 ppbv

RT: 4.544 min Scan# 1377

Delta R.T. 0.016 min

Lab File: VL042533.D

Acq: 12 May 2025 14:28

Tgt Ion:130 Resp: 190538

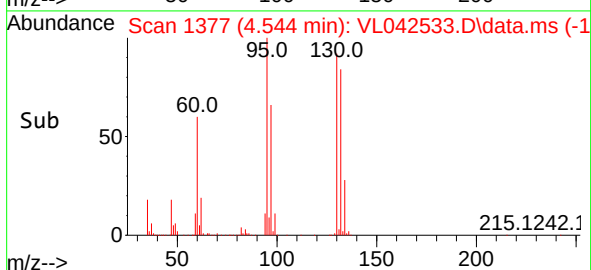
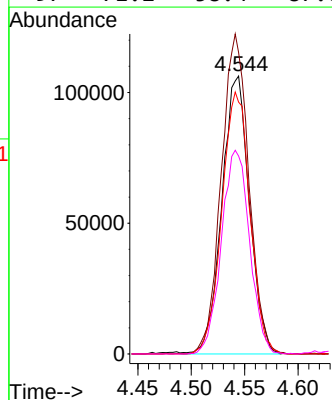
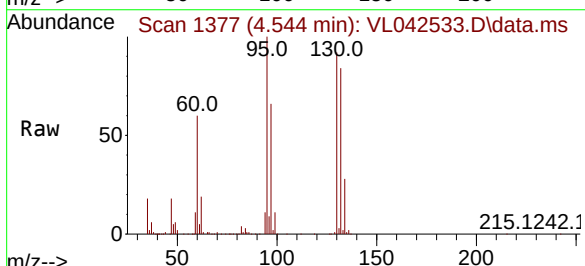
Ion Ratio Lower Upper

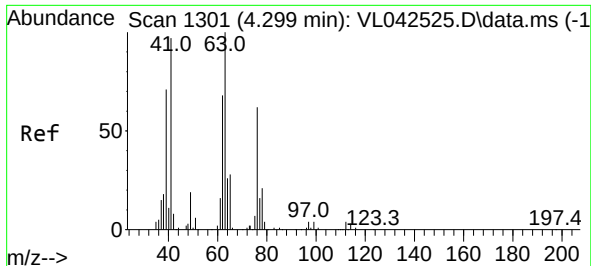
130 100

95 108.3 87.0 130.4

132 90.6 71.1 106.7

97 71.2 58.4 87.6





#39

1,2-Dichloropropane

Concen: 15.867 ppbv

RT: 4.308 min Scan# 11

Delta R.T. 0.009 min

Lab File: VL042533.D

Acq: 12 May 2025 14:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

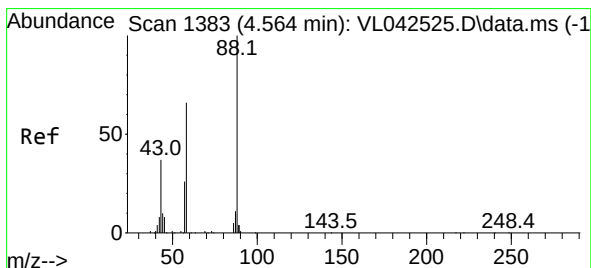
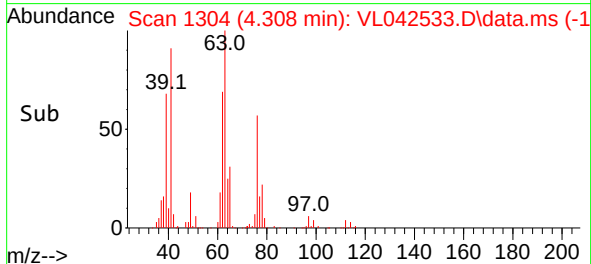
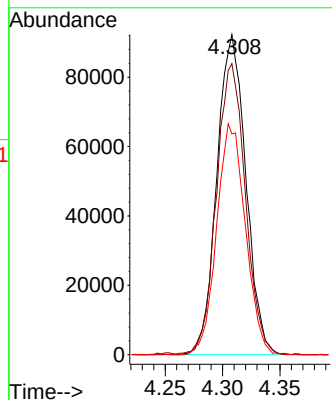
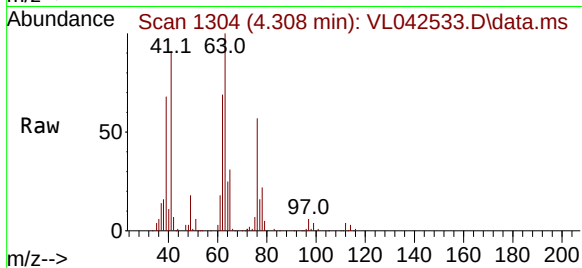
Tgt Ion: 63 Resp: 162049

Ion Ratio Lower Upper

63 100

41 90.7 77.5 116.3

62 69.0 54.6 82.0



#40

1,4-Dioxane

Concen: 7.599 ppbv

RT: 4.573 min Scan# 1386

Delta R.T. 0.009 min

Lab File: VL042533.D

Acq: 12 May 2025 14:28

Tgt Ion: 88 Resp: 30942

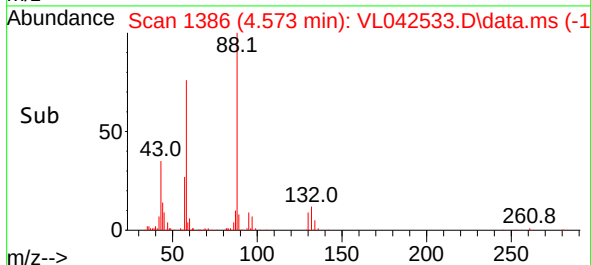
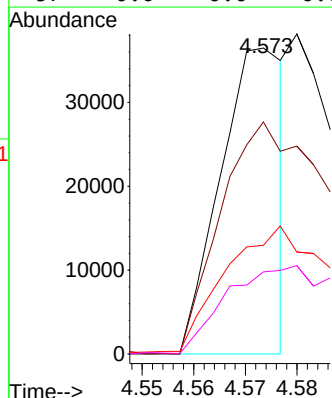
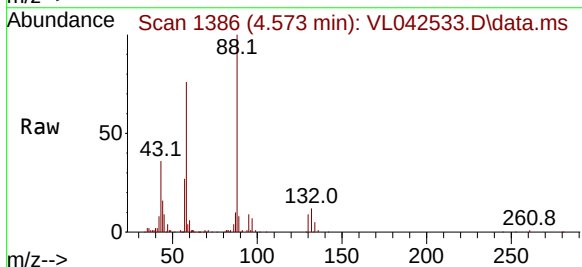
Ion Ratio Lower Upper

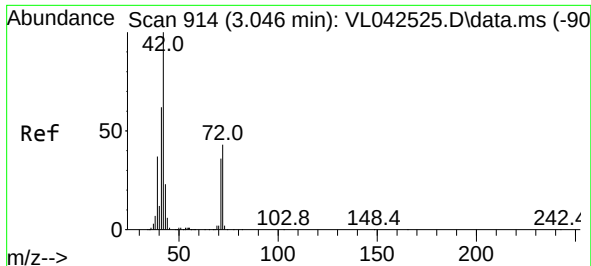
88 100

58 157.8 58.2 87.2#

43 0.0 27.9 41.9#

57 0.0 0.0 0.0





#41

Tetrahydrofuran

Concen: 19.057 ppbv

RT: 3.049 min Scan# 914

Delta R.T. 0.003 min

Lab File: VL042533.D

Acq: 12 May 2025 14:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

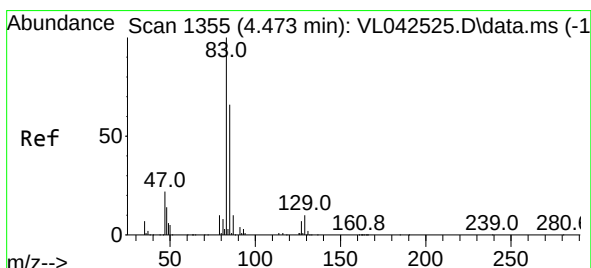
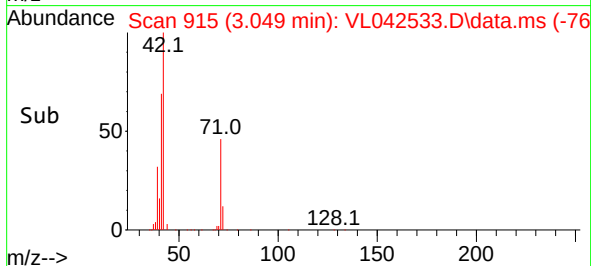
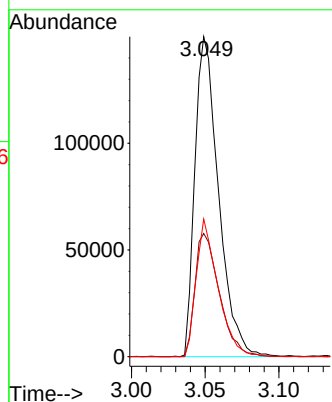
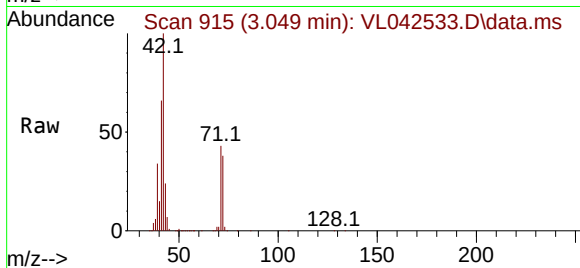
Tgt Ion: 42 Resp: 167734

Ion Ratio Lower Upper

42 100

72 39.6 32.7 49.1

71 39.6 30.4 45.6



#42

Bromodichloromethane

Concen: 15.734 ppbv

RT: 4.483 min Scan# 1358

Delta R.T. 0.009 min

Lab File: VL042533.D

Acq: 12 May 2025 14:28

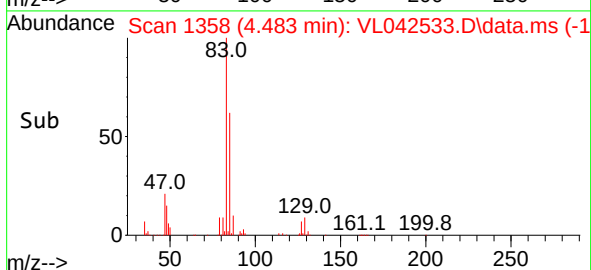
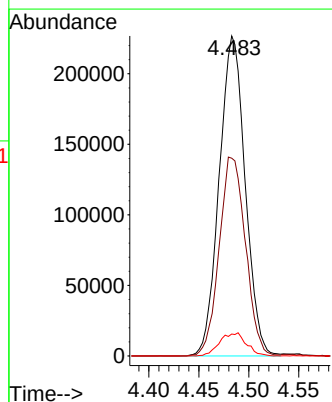
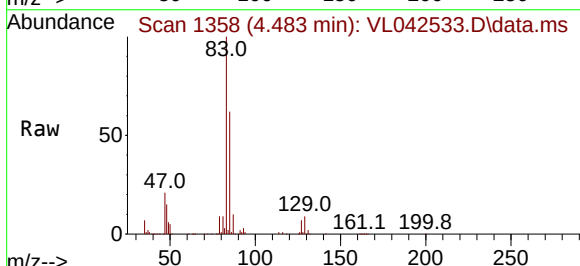
Tgt Ion: 83 Resp: 410197

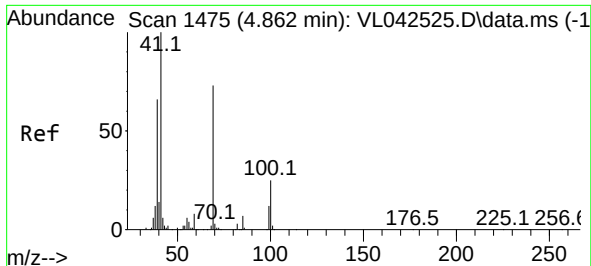
Ion Ratio Lower Upper

83 100

85 61.8 52.6 79.0

127 6.8 6.0 9.0

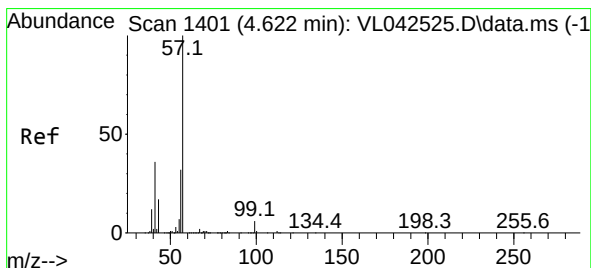
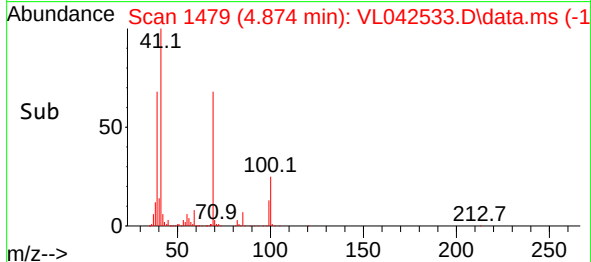
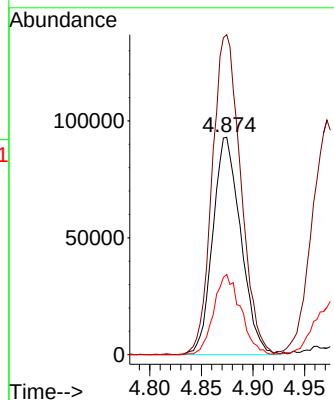
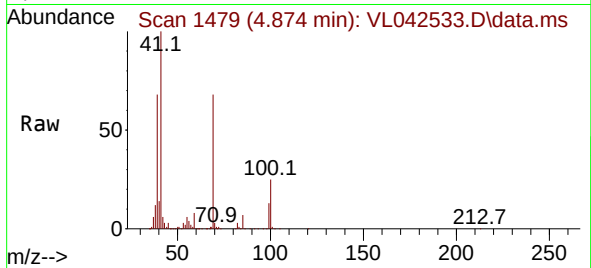




#43
Methyl Methacrylate
Concen: 19.145 ppbv
RT: 4.874 min Scan# 1475
Delta R.T. 0.013 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

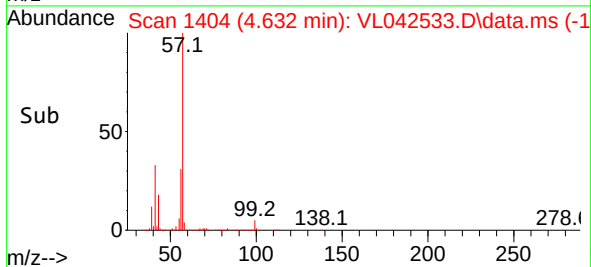
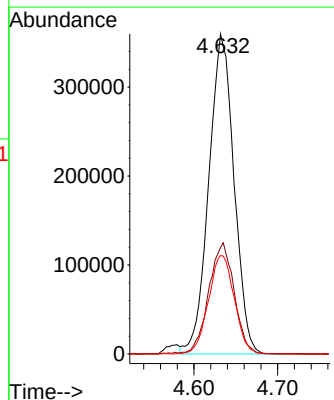
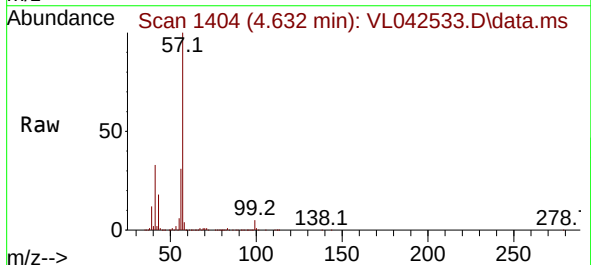
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

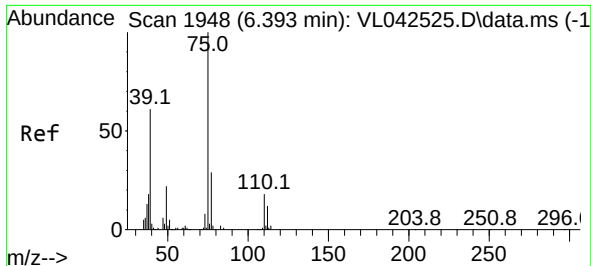
Tgt Ion: 69 Resp: 175429
Ion Ratio Lower Upper
69 100
41 150.3 119.9 179.9
100 35.7 28.4 42.6



#44
2,2,4-Trimethylpentane
Concen: 17.485 ppbv
RT: 4.632 min Scan# 1404
Delta R.T. 0.009 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

Tgt Ion: 57 Resp: 753360
Ion Ratio Lower Upper
57 100
41 35.5 28.3 42.5
56 31.5 25.9 38.9

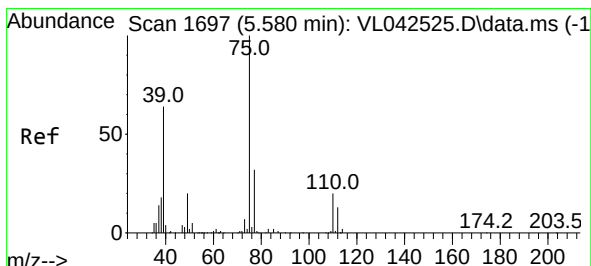
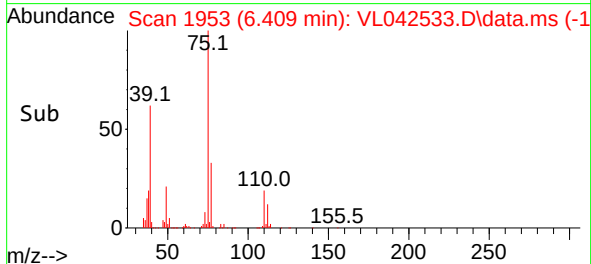
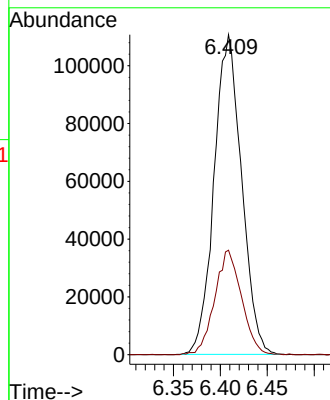
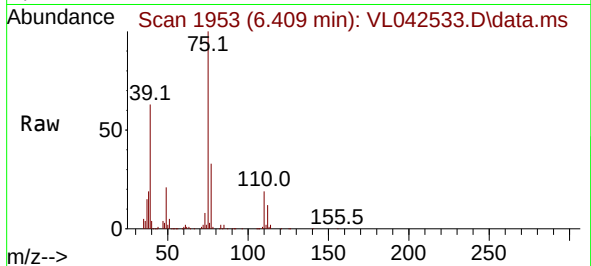




#45
 t-1,3-Dichloropropene
 Concen: 19.247 ppbv
 RT: 6.409 min Scan# 1948
 Delta R.T. 0.016 min
 Lab File: VL042533.D
 Acq: 12 May 2025 14:28

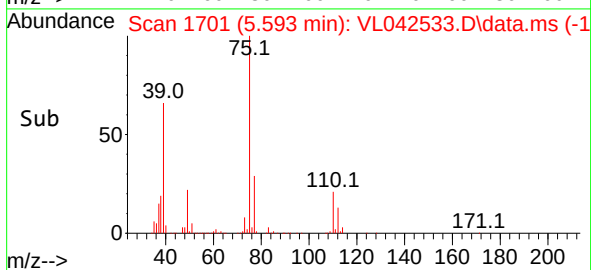
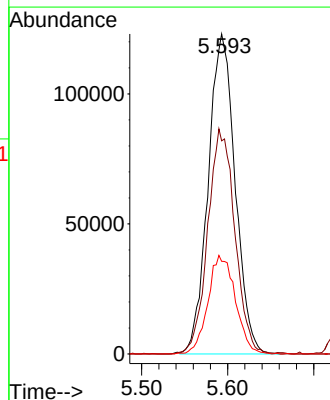
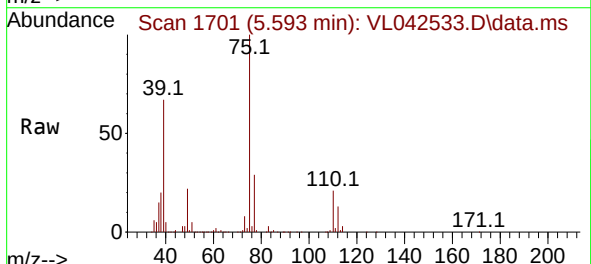
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC015

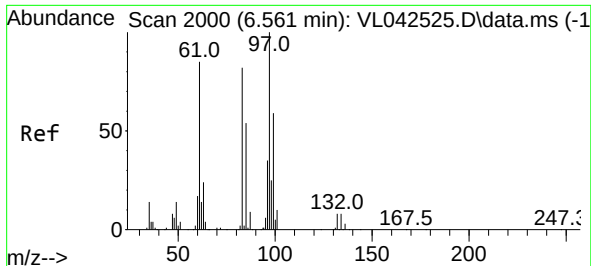
Tgt Ion: 75 Resp: 225163
 Ion Ratio Lower Upper
 75 100
 77 32.7 23.3 34.9



#46
 cis-1,3-Dichloropropene
 Concen: 18.975 ppbv
 RT: 5.593 min Scan# 1701
 Delta R.T. 0.013 min
 Lab File: VL042533.D
 Acq: 12 May 2025 14:28

Tgt Ion: 75 Resp: 267742
 Ion Ratio Lower Upper
 75 100
 39 66.2 51.2 76.8
 77 29.0 25.4 38.0

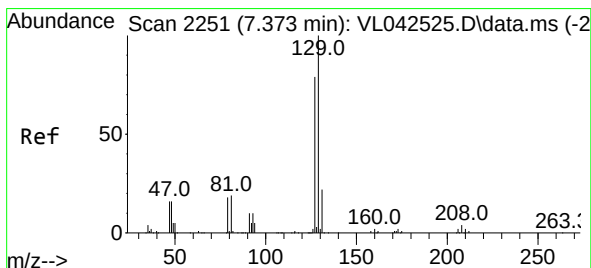
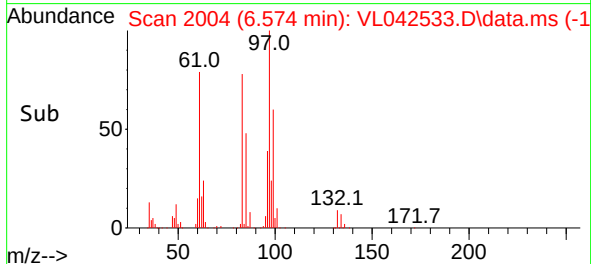
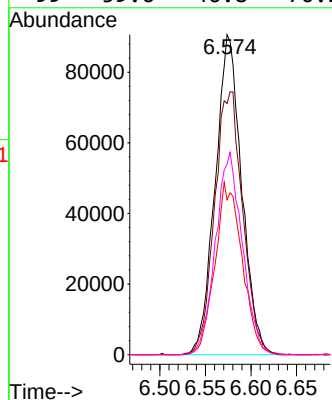
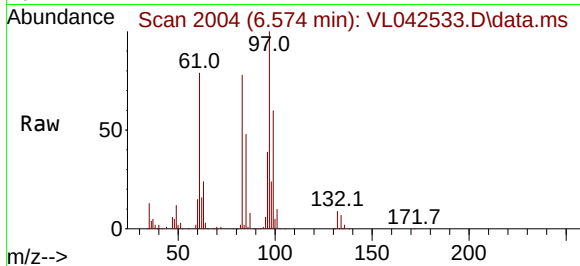




#47
1,1,2-Trichloroethane
Concen: 15.225 ppbv
RT: 6.574 min Scan# 2004
Delta R.T. 0.013 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

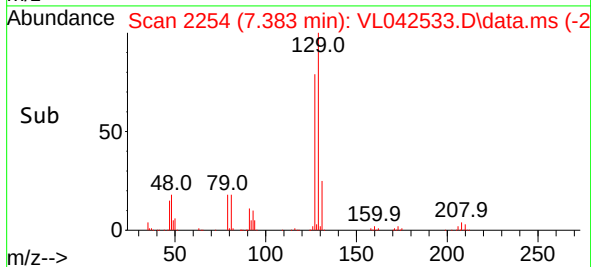
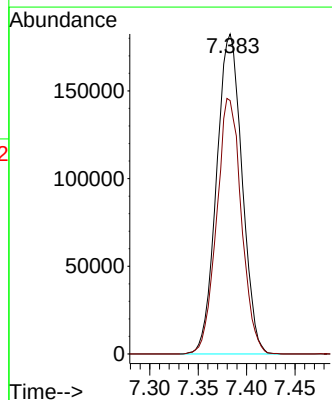
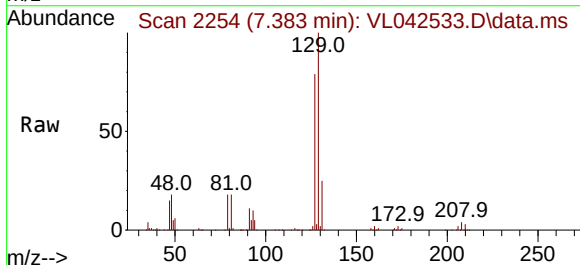
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

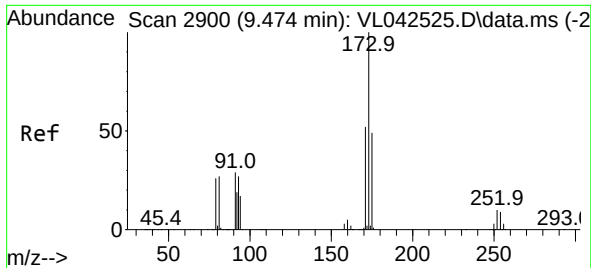
Tgt Ion: 97	Resp: 183088
Ion Ratio	Lower Upper
97 100	
83 78.4	66.0 99.0
85 48.4	42.8 64.2
99 59.6	46.8 70.2



#48
Dibromochloromethane
Concen: 16.641 ppbv
RT: 7.383 min Scan# 2254
Delta R.T. 0.009 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

Tgt Ion:129	Resp: 334374
Ion Ratio	Lower Upper
129 100	
127 77.5	39.6 118.8

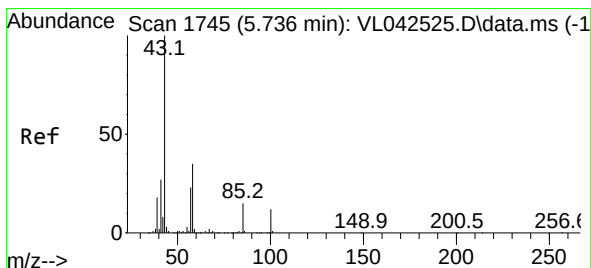
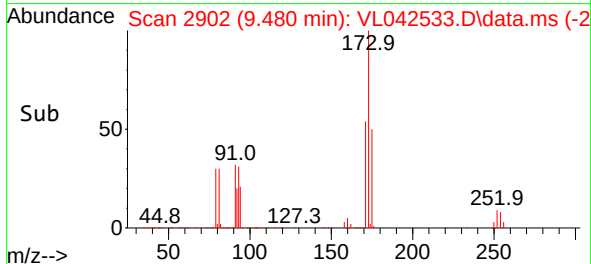
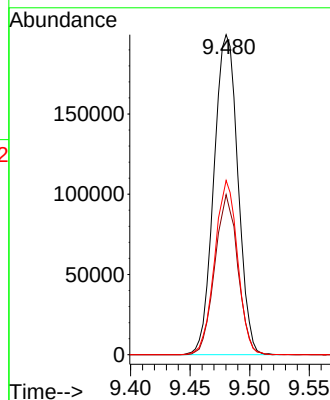
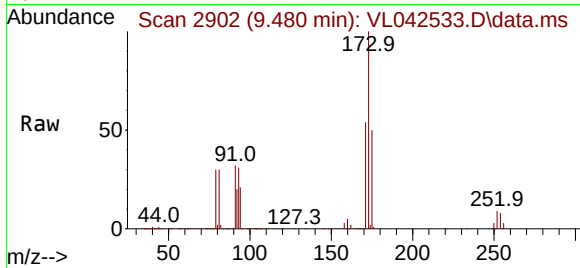




#49
Bromoform
Concen: 16.922 ppbv
RT: 9.480 min Scan# 2900
Delta R.T. 0.006 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

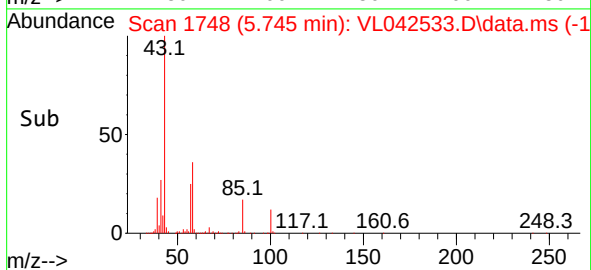
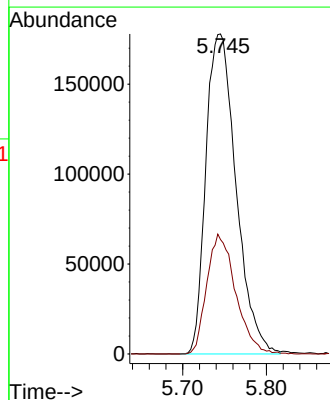
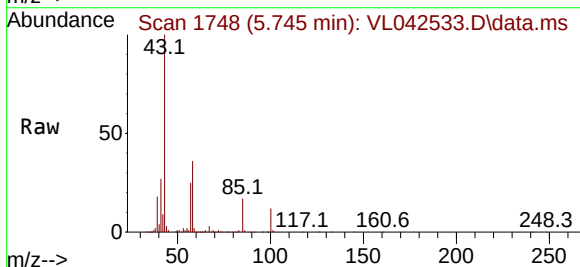
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

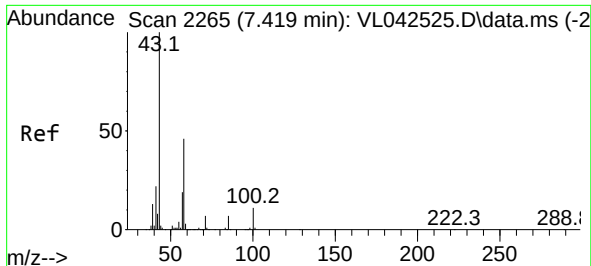
Tgt Ion:173 Resp: 279015
Ion Ratio Lower Upper
173 100
175 47.9 39.1 58.7
171 52.1 41.8 62.8



#50
4-Methyl-2-Pentanone
Concen: 18.621 ppbv
RT: 5.745 min Scan# 1748
Delta R.T. 0.009 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

Tgt Ion: 43 Resp: 445638
Ion Ratio Lower Upper
43 100
58 35.7 28.6 42.8

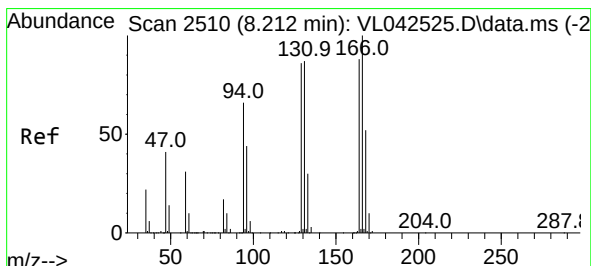
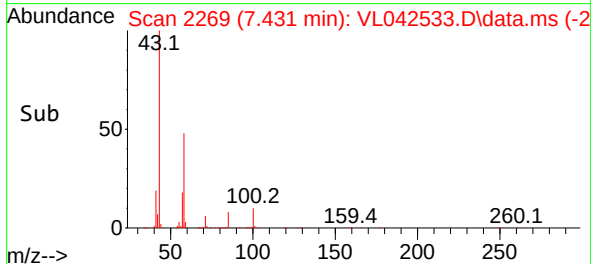
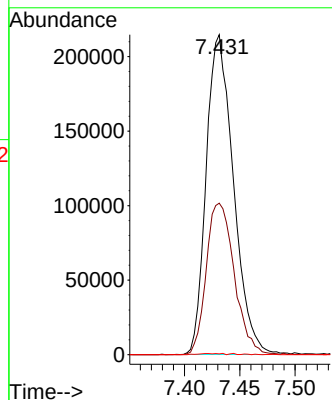
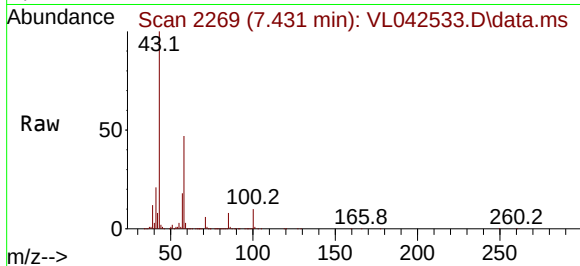




#51
2-Hexanone
Concen: 20.654 ppbv
RT: 7.431 min Scan# 2113
Delta R.T. 0.013 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

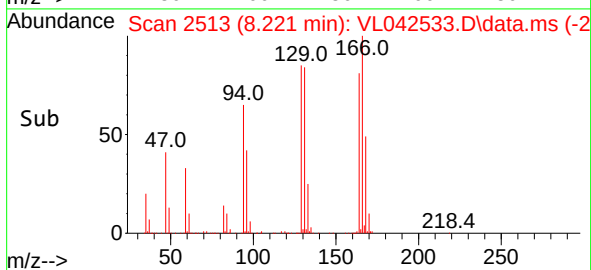
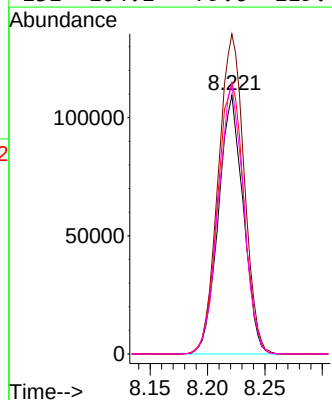
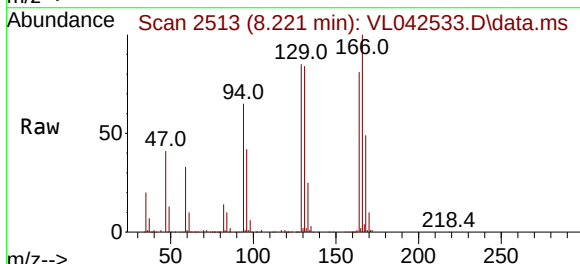
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

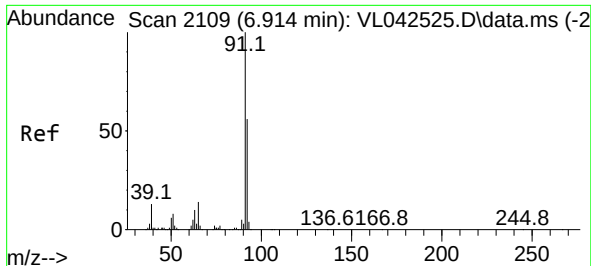
Tgt Ion: 43 Resp: 367397
Ion Ratio Lower Upper
43 100
58 48.8 37.5 56.3
98 0.5 0.9 1.3#



#52
Tetrachloroethene
Concen: 15.639 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. 0.009 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

Tgt Ion: 164 Resp: 165300
Ion Ratio Lower Upper
164 100
166 123.6 91.3 136.9
129 104.8 78.9 118.3
131 104.1 79.6 119.4

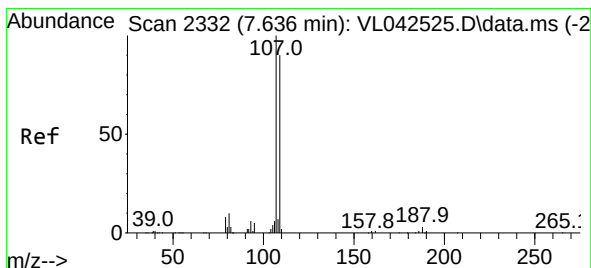
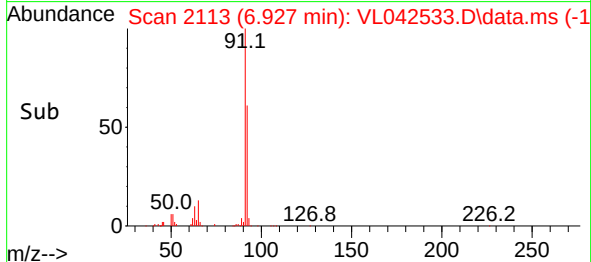
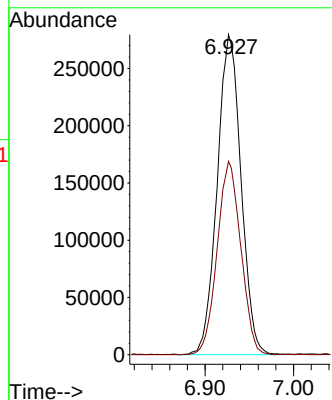
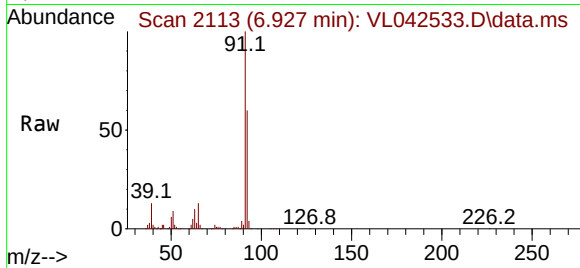




#53
Toluene
Concen: 19.420 ppbv
RT: 6.927 min Scan# 2109
Delta R.T. 0.013 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

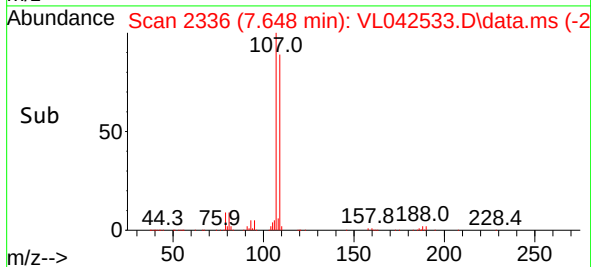
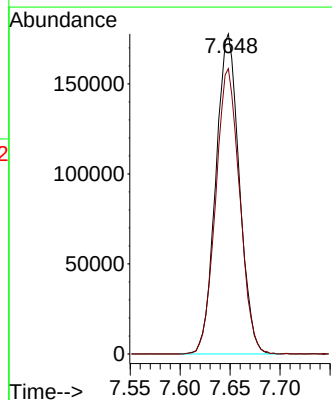
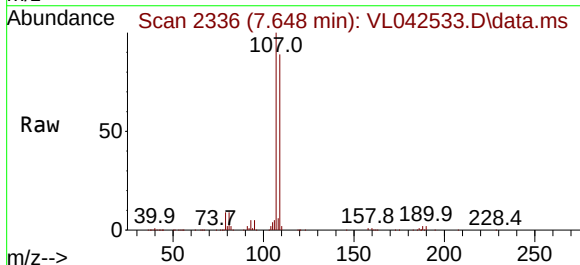
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

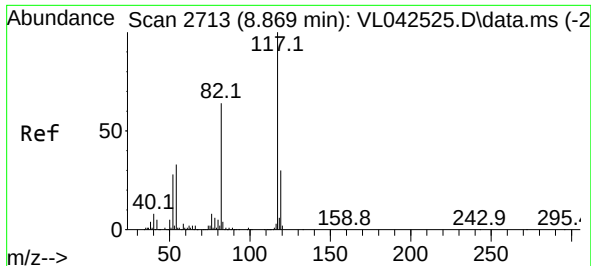
Tgt Ion: 91 Resp: 522877
Ion Ratio Lower Upper
91 100
92 59.9 47.8 71.6



#54
1,2-Dibromoethane
Concen: 16.547 ppbv
RT: 7.648 min Scan# 2336
Delta R.T. 0.013 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

Tgt Ion: 107 Resp: 290801
Ion Ratio Lower Upper
107 100
109 89.2 72.2 108.4

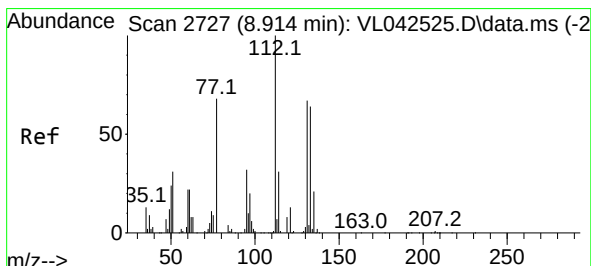
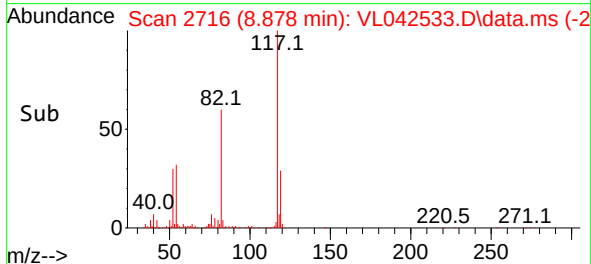
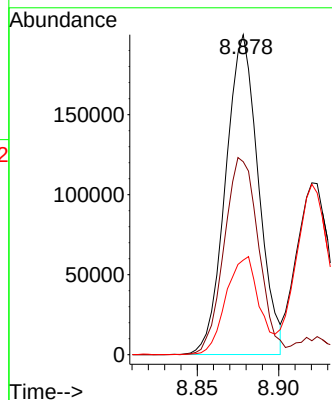
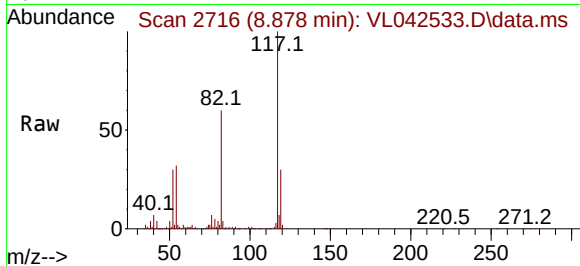




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2716
Delta R.T. 0.009 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

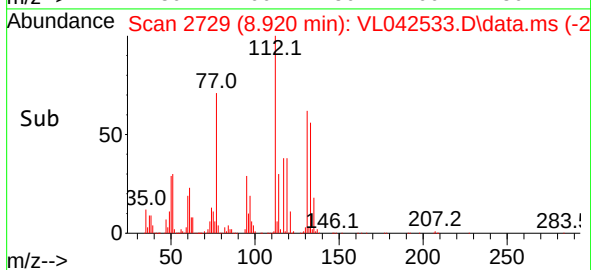
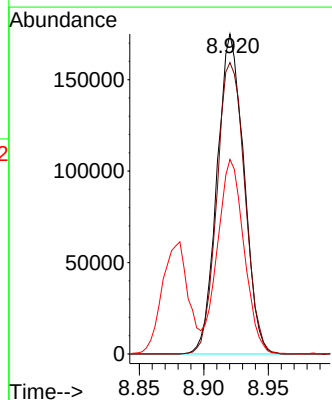
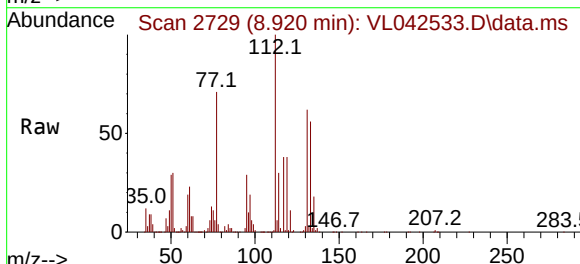
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

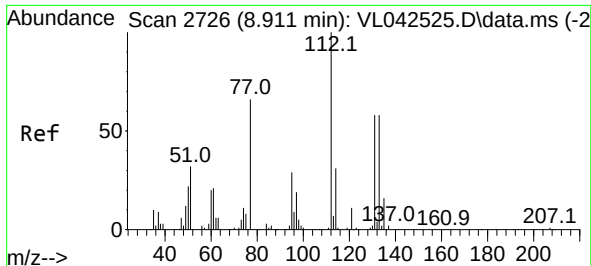
Tgt Ion:117 Resp: 279828
Ion Ratio Lower Upper
117 100
82 65.2 55.0 82.4
119 31.1 25.8 38.6



#56
1,1,1,2-Tetrachloroethane
Concen: 14.589 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. 0.006 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

Tgt Ion:131 Resp: 253110
Ion Ratio Lower Upper
131 100
133 94.8 77.4 116.2
119 60.0 49.0 73.4

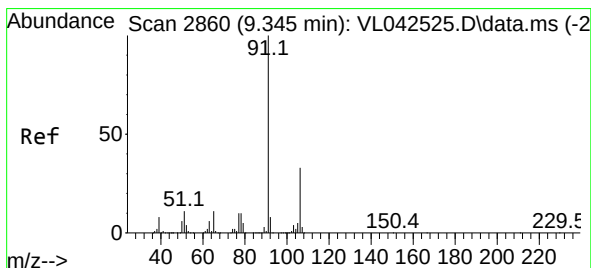
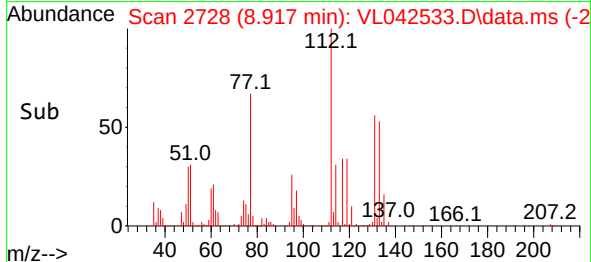
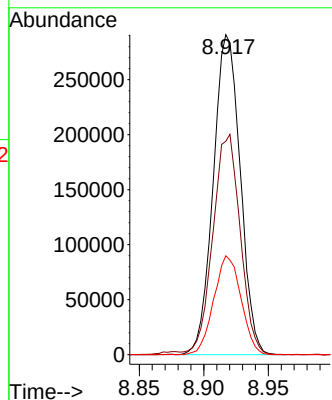
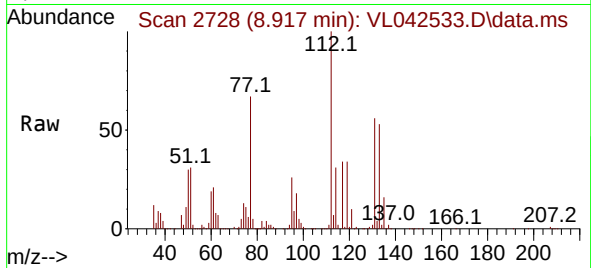




#57
Chlorobenzene
Concen: 15.057 ppbv
RT: 8.917 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

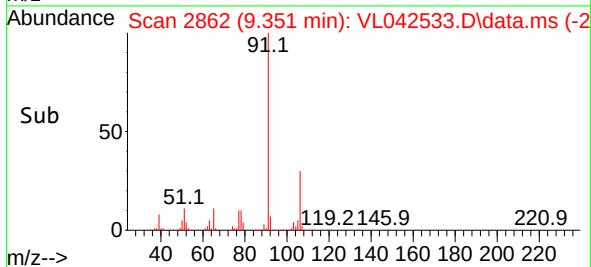
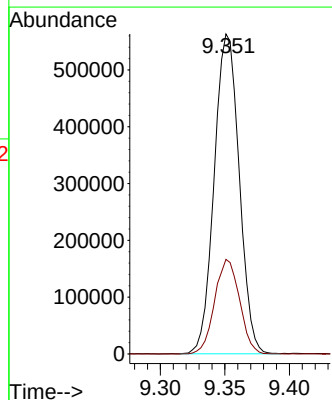
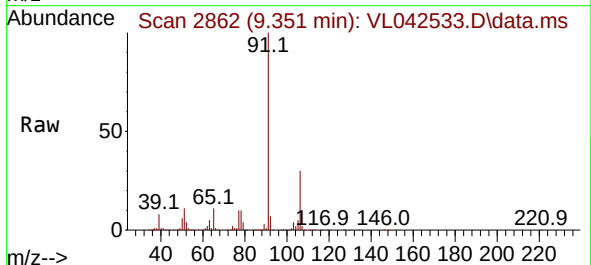
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

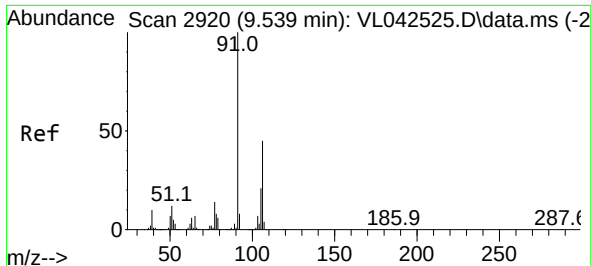
Tgt Ion:112 Resp: 423059
Ion Ratio Lower Upper
112 100
77 66.6 53.6 80.4
114 30.8 28.2 34.4



#58
Ethyl Benzene
Concen: 19.852 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. 0.006 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

Tgt Ion: 91 Resp: 757160
Ion Ratio Lower Upper
91 100
106 29.6 26.0 39.0





#59

m/p-Xylene

Concen: 17.539 ppbv

RT: 9.548 min Scan# 2920

Delta R.T. 0.009 min

Lab File: VL042533.D

Acq: 12 May 2025 14:28

Instrument :

MSVOA_1

ClientSampleId :

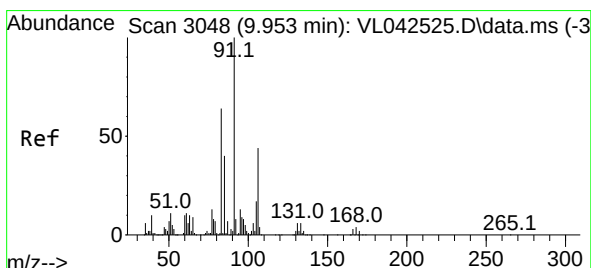
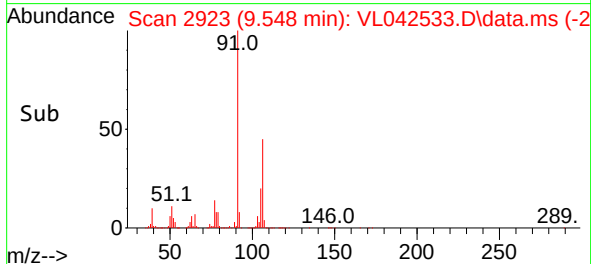
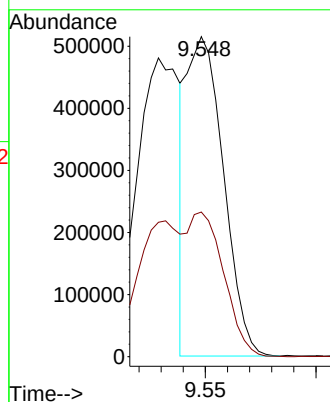
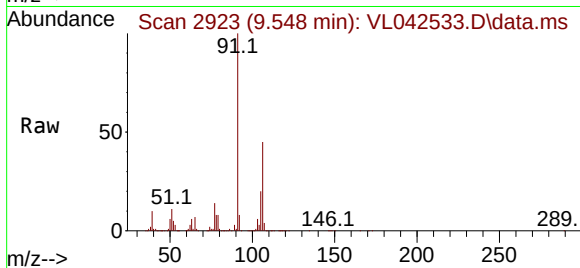
VSTDIC015

Tgt Ion: 91 Resp: 595097

Ion Ratio Lower Upper

91 100

106 95.3 0.0 0.0#



#60

o-Xylene

Concen: 18.698 ppbv

RT: 9.962 min Scan# 3051

Delta R.T. 0.009 min

Lab File: VL042533.D

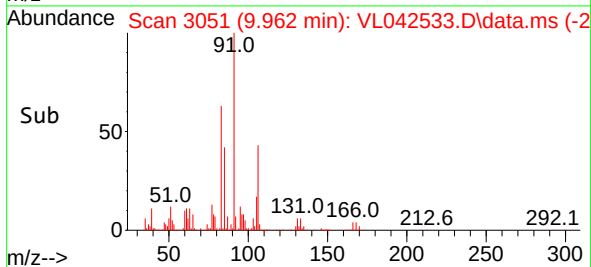
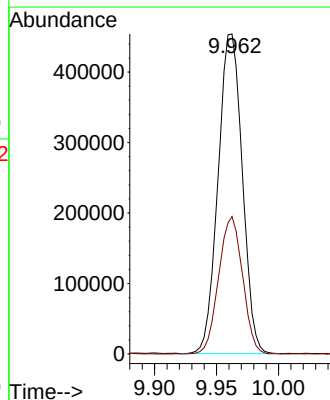
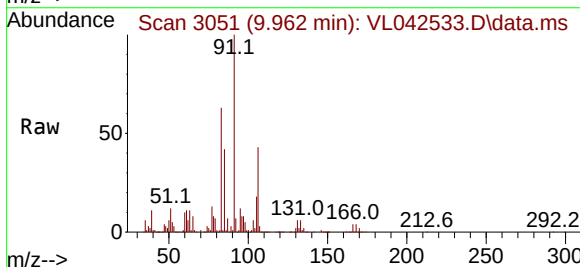
Acq: 12 May 2025 14:28

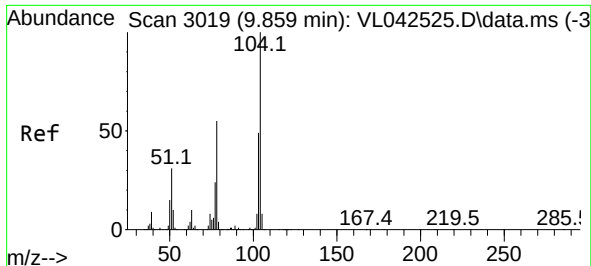
Tgt Ion: 91 Resp: 618234

Ion Ratio Lower Upper

91 100

106 42.4 21.6 64.6

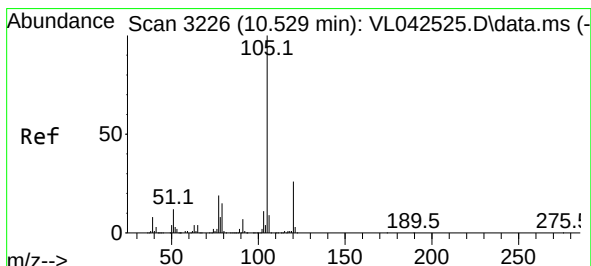
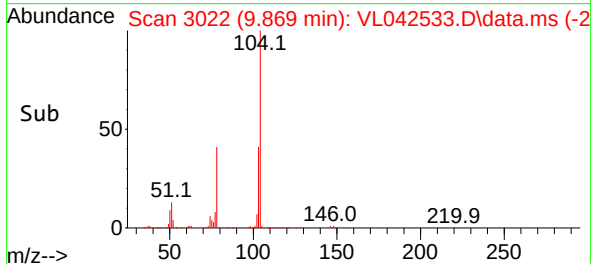
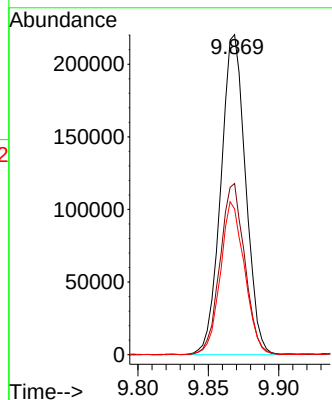
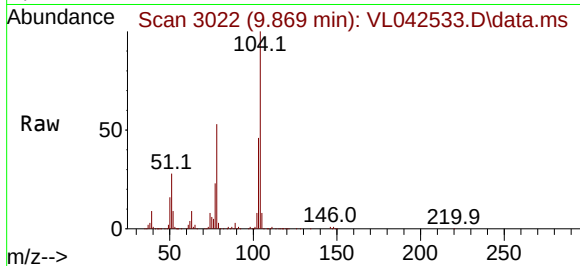




#61
Styrene
Concen: 22.137 ppbv
RT: 9.869 min Scan# 3019
Delta R.T. 0.009 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

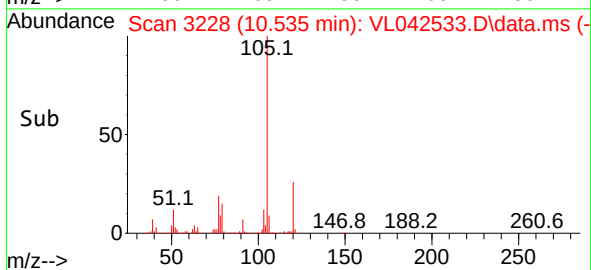
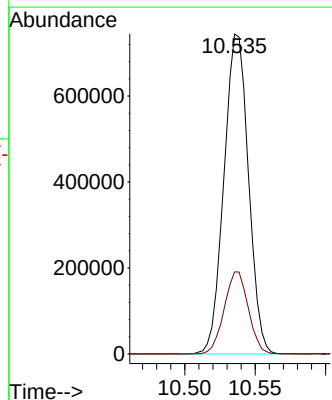
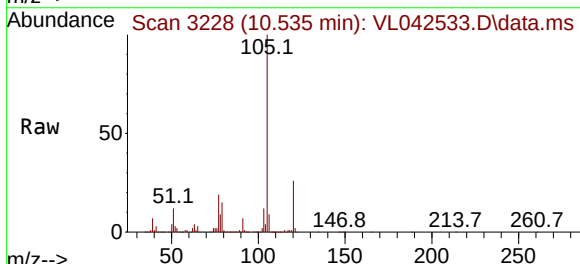
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

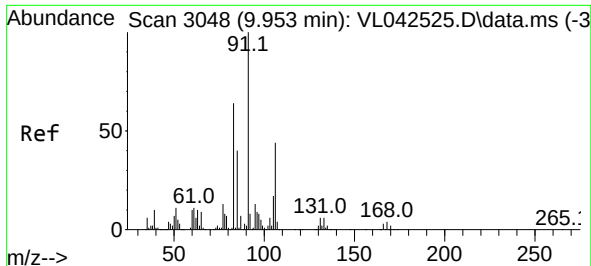
Tgt Ion:104 Resp: 269609
Ion Ratio Lower Upper
104 100
78 53.7 44.7 67.1
103 47.0 38.6 58.0



#62
Isopropylbenzene
Concen: 18.112 ppbv
RT: 10.535 min Scan# 3228
Delta R.T. 0.006 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

Tgt Ion:105 Resp: 902388
Ion Ratio Lower Upper
105 100
120 25.4 20.1 30.1





#63

1,1,2,2-Tetrachloroethane

Concen: 14.351 ppbv

RT: 9.959 min Scan# 3048

Delta R.T. 0.006 min

Lab File: VL042533.D

Acq: 12 May 2025 14:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

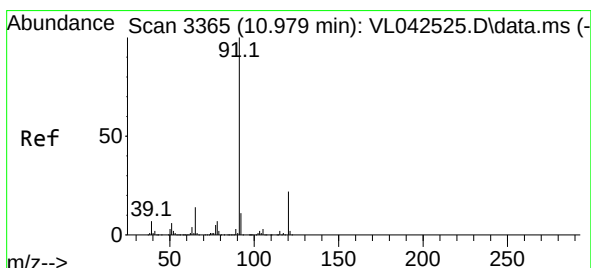
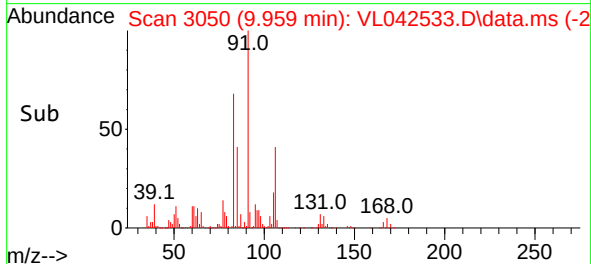
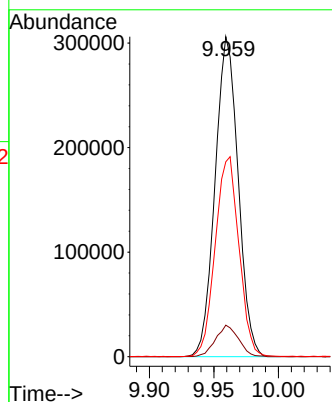
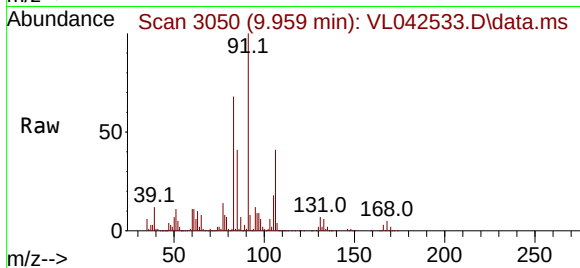
Tgt Ion: 83 Resp: 380582

Ion Ratio Lower Upper

83 100

131 9.8 4.9 14.7

85 63.9 32.3 96.8



#64

n-propylbenzene

Concen: 18.238 ppbv

RT: 10.985 min Scan# 3367

Delta R.T. 0.006 min

Lab File: VL042533.D

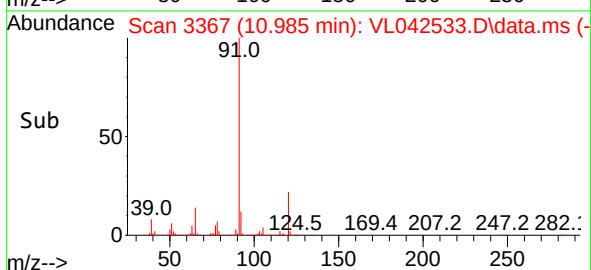
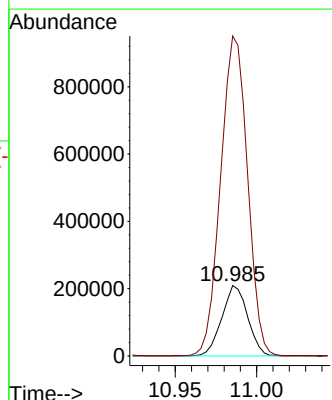
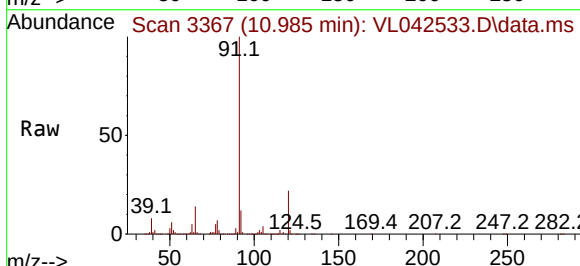
Acq: 12 May 2025 14:28

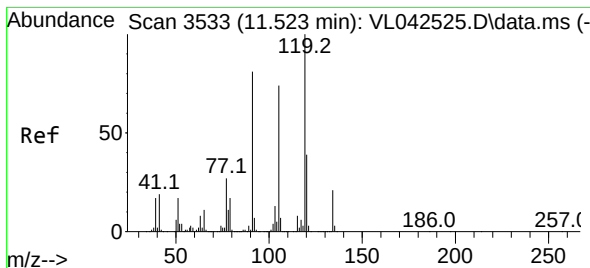
Tgt Ion: 120 Resp: 230244

Ion Ratio Lower Upper

120 100

91 473.5 377.7 566.5

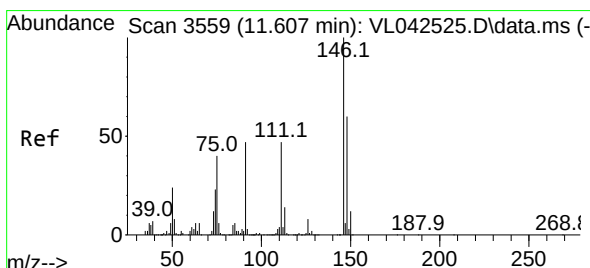
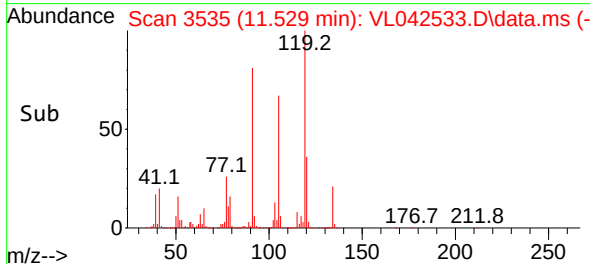
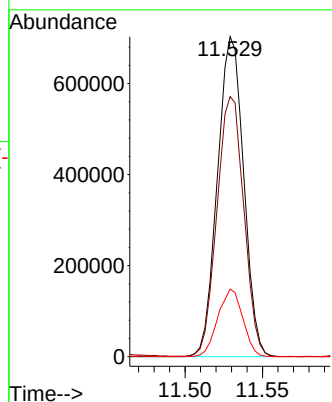
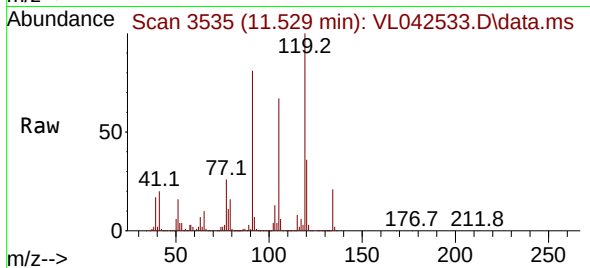




#65
tert-Butylbenzene
Concen: 18.087 ppbv
RT: 11.529 min Scan# 3533
Delta R.T. 0.006 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

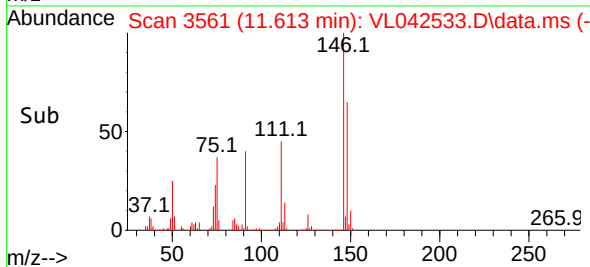
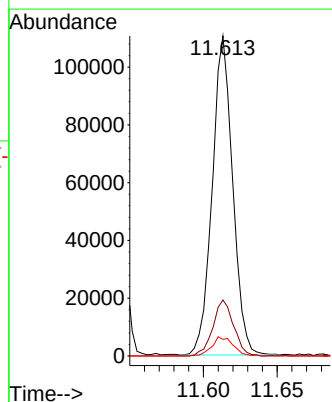
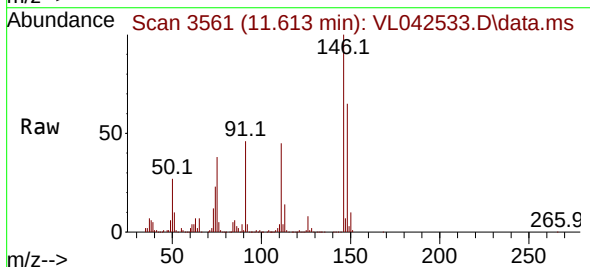
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

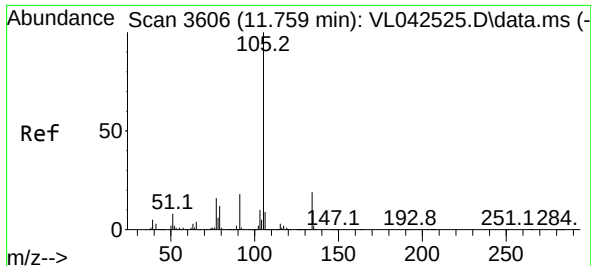
Tgt Ion:119 Resp: 827491
Ion Ratio Lower Upper
119 100
91 83.0 66.6 99.8
134 20.1 16.3 24.5



#66
Benzyl Chloride
Concen: 17.633 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. 0.006 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

Tgt Ion: 91 Resp: 106741
Ion Ratio Lower Upper
91 100
126 17.9 13.7 20.5
128 6.3 4.2 6.2#

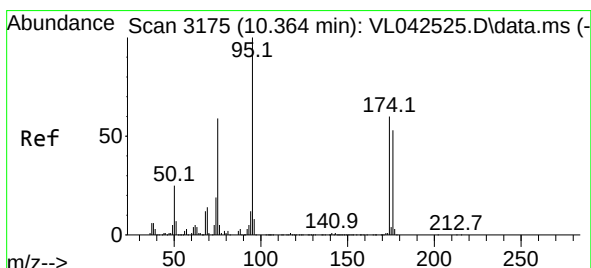
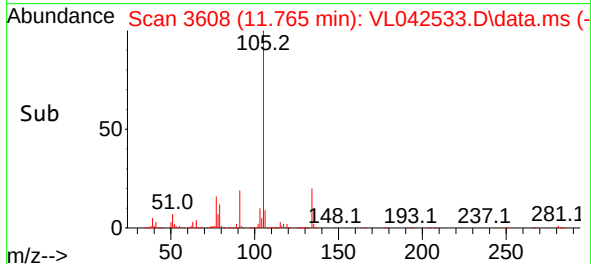
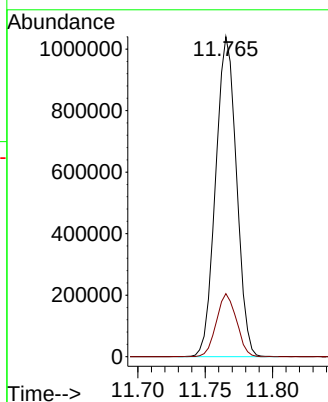
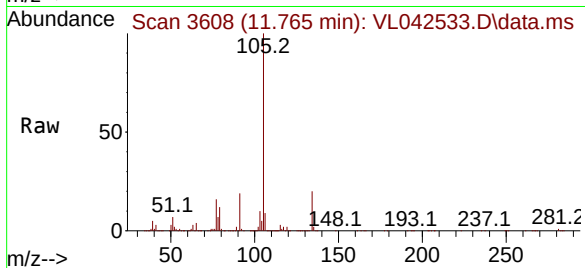




#67
 sec-Butylbenzene
 Concen: 17.089 ppbv
 RT: 11.765 min Scan# 3608
 Delta R.T. 0.006 min
 Lab File: VL042533.D
 Acq: 12 May 2025 14:28

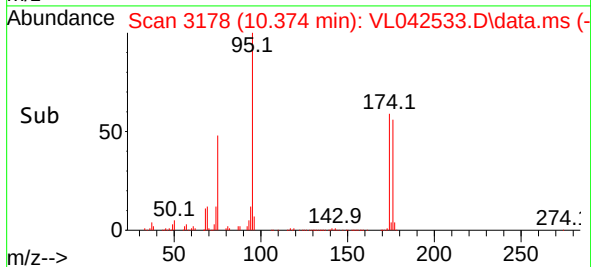
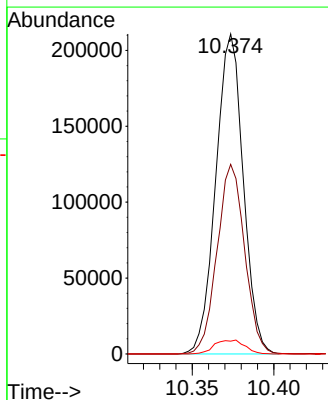
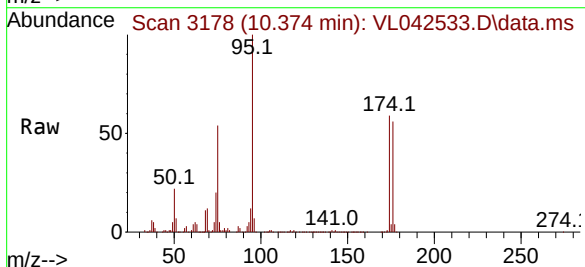
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC015

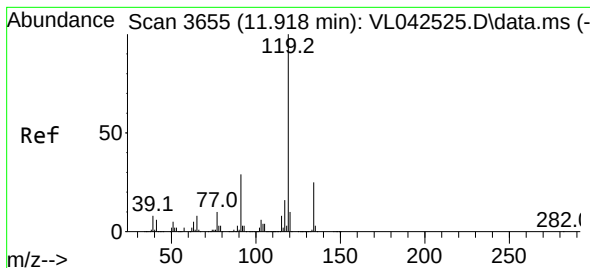
Tgt Ion:105 Resp: 1120950
 Ion Ratio Lower Upper
 105 100
 134 19.0 14.9 22.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.136 ppbv
 RT: 10.374 min Scan# 3178
 Delta R.T. 0.009 min
 Lab File: VL042533.D
 Acq: 12 May 2025 14:28

Tgt Ion: 95 Resp: 246798
 Ion Ratio Lower Upper
 95 100
 174 59.5 48.0 72.0
 175 4.8 3.5 5.3





#69

p-Isopropyltoluene

Concen: 18.247 ppbv

RT: 11.924 min Scan# 3657

Delta R.T. 0.006 min

Lab File: VL042533.D

Acq: 12 May 2025 14:28

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC015

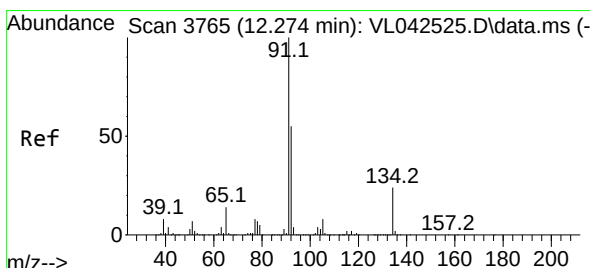
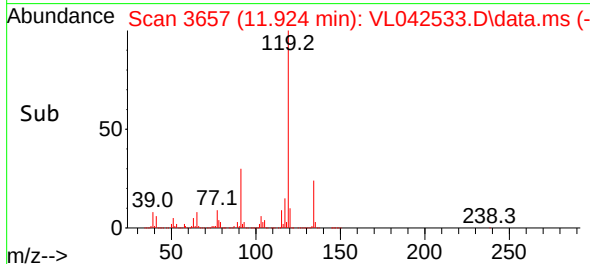
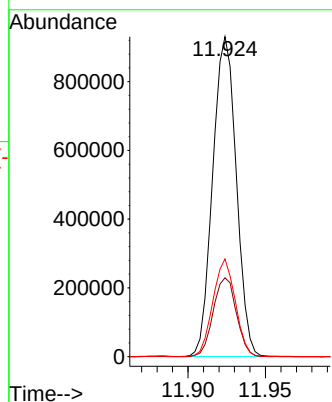
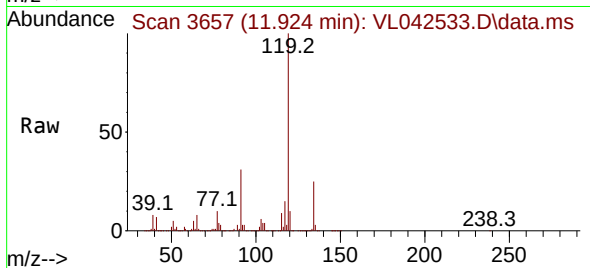
Tgt Ion:119 Resp: 983988

Ion Ratio Lower Upper

119 100

134 24.3 19.8 29.6

91 29.2 23.6 35.4



#70

n-Butylbenzene

Concen: 18.295 ppbv

RT: 12.280 min Scan# 3767

Delta R.T. 0.006 min

Lab File: VL042533.D

Acq: 12 May 2025 14:28

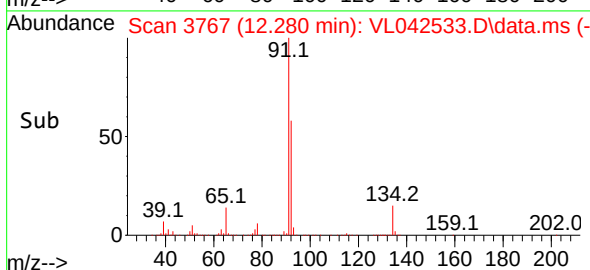
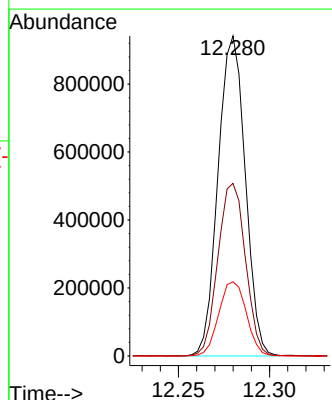
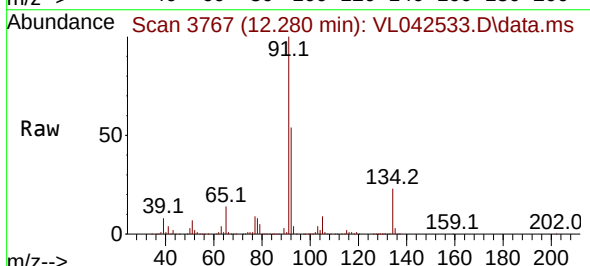
Tgt Ion: 91 Resp: 974868

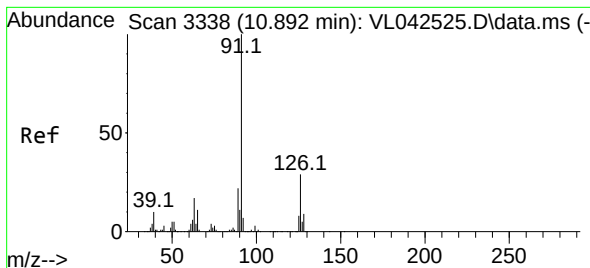
Ion Ratio Lower Upper

91 100

92 54.8 43.7 65.5

134 23.6 18.9 28.3

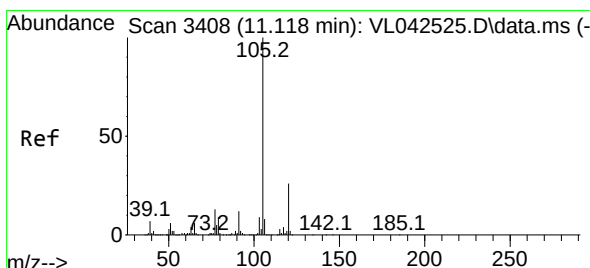
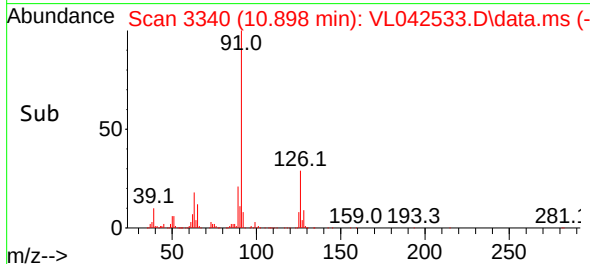
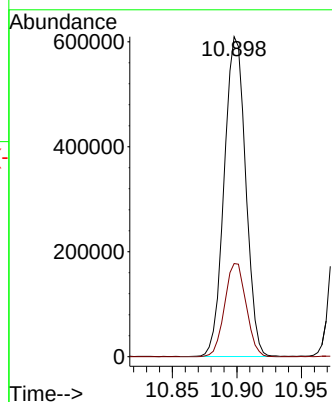
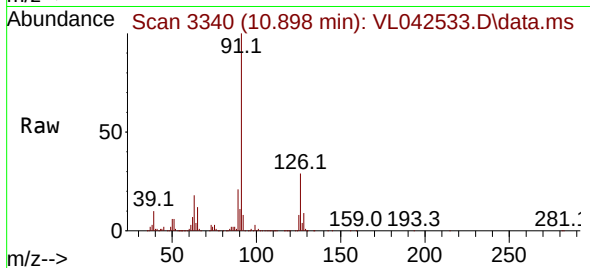




#71
2-Chlorotoluene
Concen: 18.636 ppbv
RT: 10.898 min Scan# 31
Delta R.T. 0.006 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

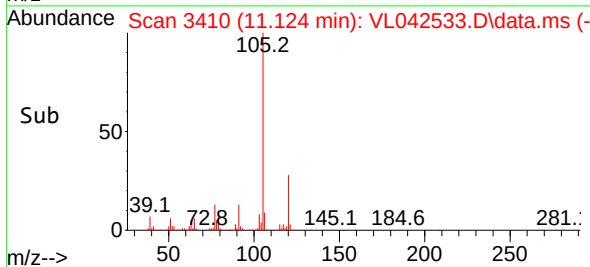
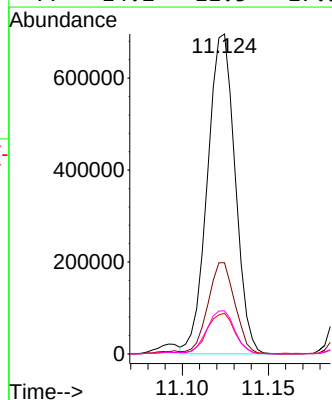
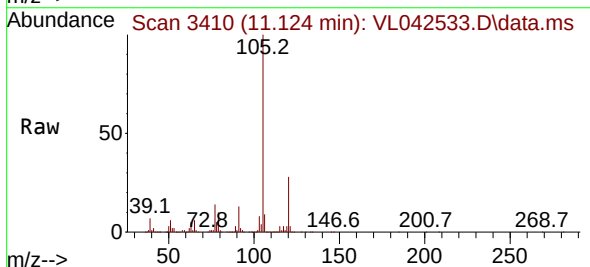
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

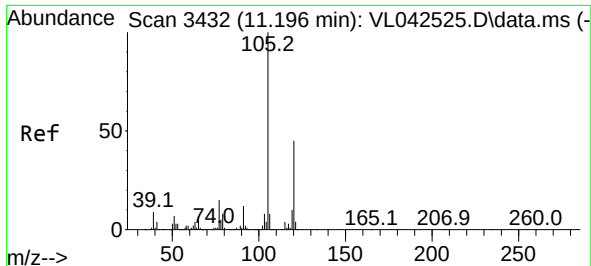
Tgt Ion: 91 Resp: 703053
Ion Ratio Lower Upper
91 100
126 29.1 11.4 45.6



#72
4-Ethyltoluene
Concen: 18.954 ppbv
RT: 11.124 min Scan# 3410
Delta R.T. 0.006 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

Tgt Ion: 105 Resp: 777799
Ion Ratio Lower Upper
105 100
120 28.7 22.9 34.3
91 13.1 10.9 16.3
77 14.2 11.5 17.3

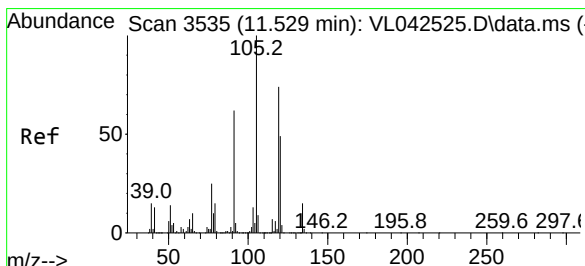
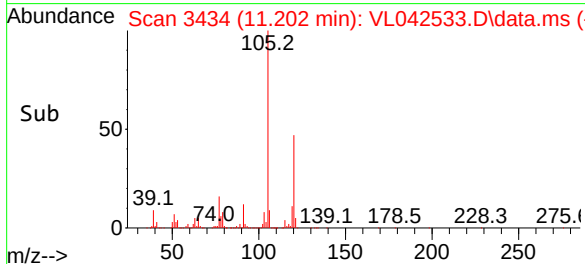
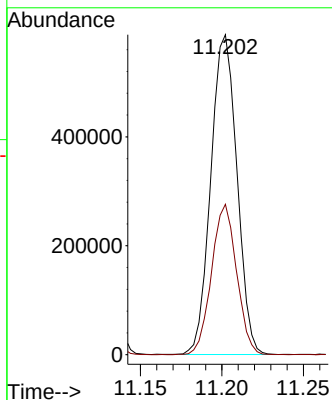
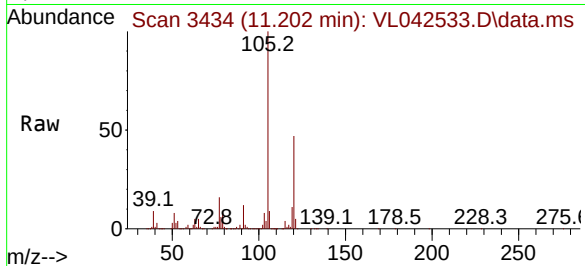




#73
 1,3,5-Trimethylbenzene
 Concen: 18.296 ppbv
 RT: 11.202 min Scan# 3434
 Delta R.T. 0.006 min
 Lab File: VL042533.D
 Acq: 12 May 2025 14:28

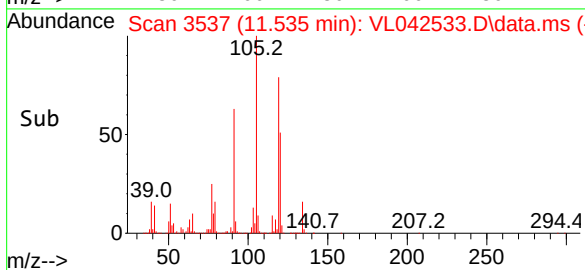
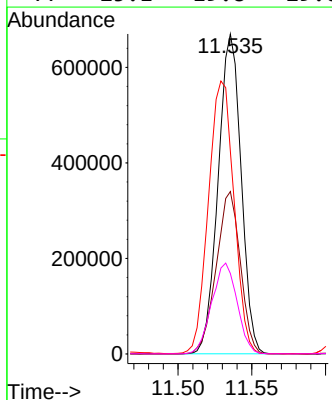
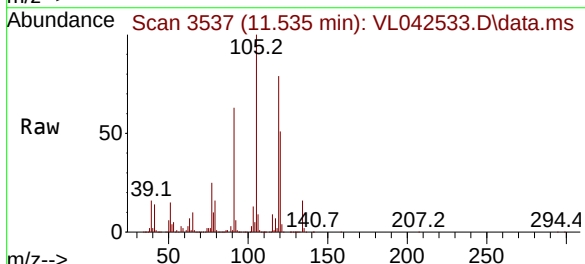
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

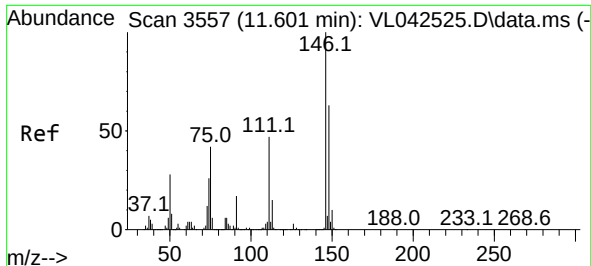
Tgt Ion:105 Resp: 654009
 Ion Ratio Lower Upper
 105 100
 120 47.0 36.0 54.0



#74
 1,2,4-Trimethylbenzene
 Concen: 16.496 ppbv
 RT: 11.535 min Scan# 3537
 Delta R.T. 0.006 min
 Lab File: VL042533.D
 Acq: 12 May 2025 14:28

Tgt Ion:105 Resp: 725454
 Ion Ratio Lower Upper
 105 100
 120 50.8 39.0 58.6
 91 63.2 49.4 74.2
 77 25.1 19.8 29.6

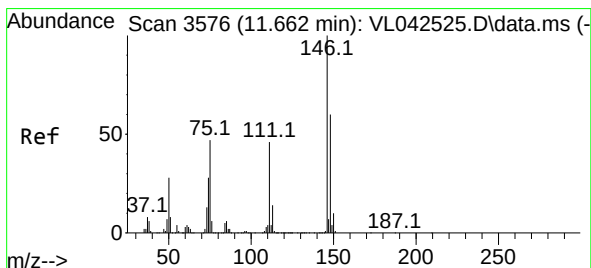
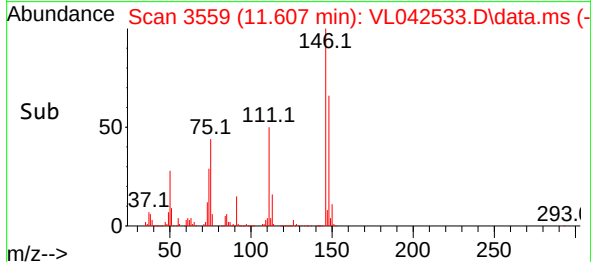
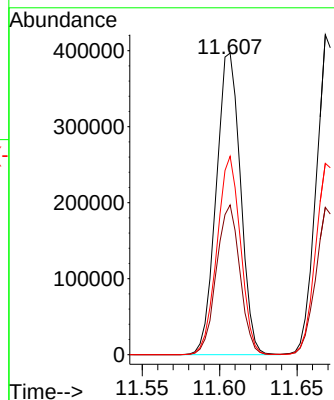
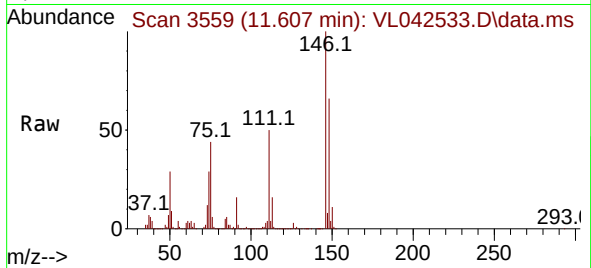




#75
1,3-Dichlorobenzene
Concen: 15.690 ppbv
RT: 11.607 min Scan# 3557
Delta R.T. 0.006 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

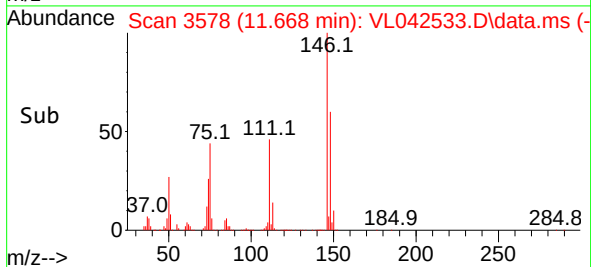
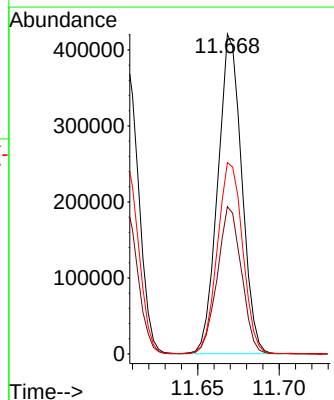
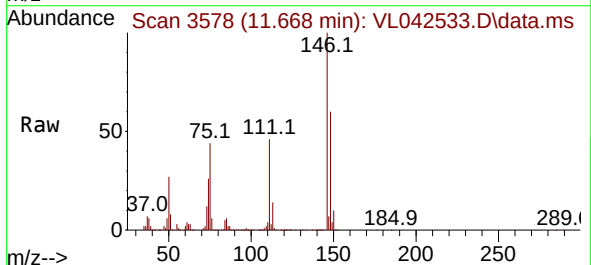
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

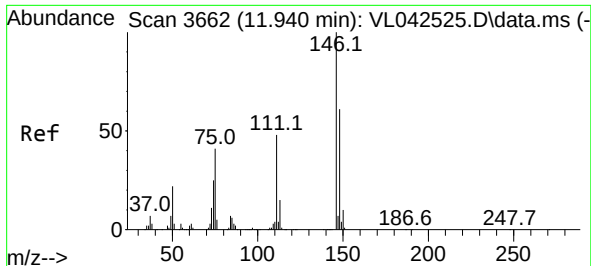
Tgt Ion:146 Resp: 432126
Ion Ratio Lower Upper
146 100
111 48.2 23.6 71.0
148 63.7 31.6 94.8



#76
1,4-Dichlorobenzene
Concen: 16.387 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. 0.006 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

Tgt Ion:146 Resp: 429425
Ion Ratio Lower Upper
146 100
111 46.7 23.4 70.3
148 63.5 31.6 94.7

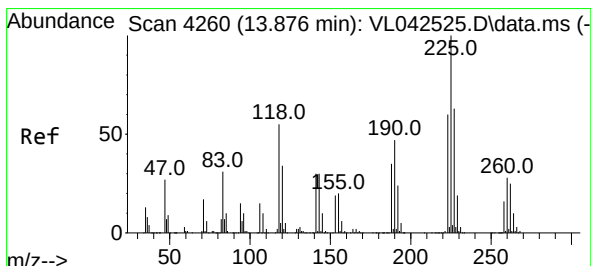
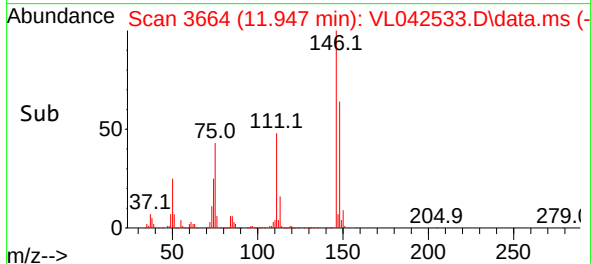
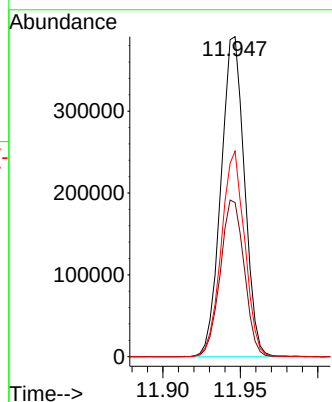
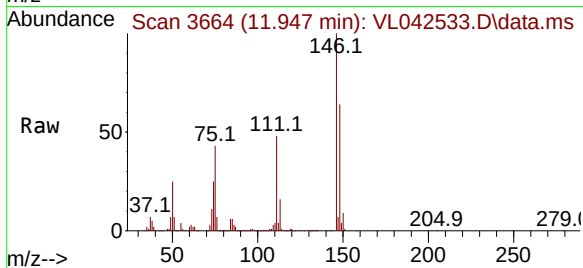




#77
1,2-Dichlorobenzene
Concen: 14.497 ppbv
RT: 11.947 min Scan# 3664
Delta R.T. 0.006 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

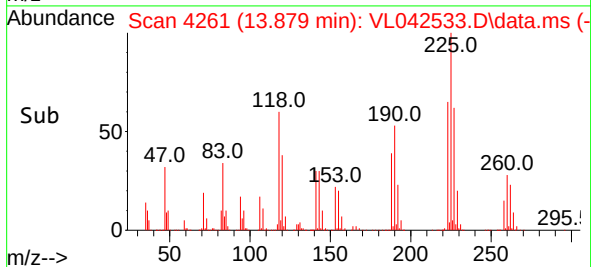
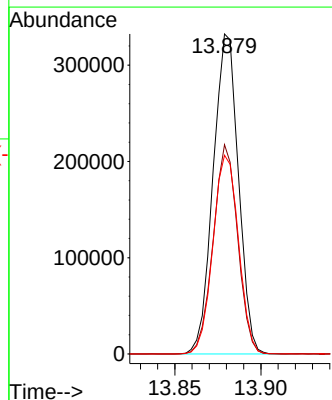
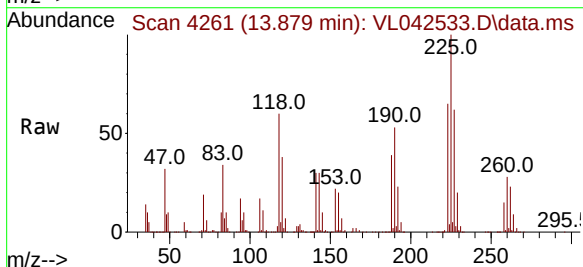
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

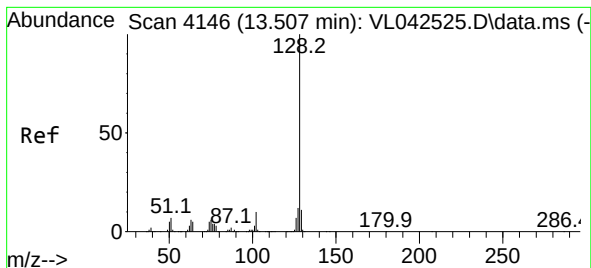
Tgt Ion:146 Resp: 412453
Ion Ratio Lower Upper
146 100
111 50.0 24.9 74.8
148 64.1 31.4 94.2



#78
Hexachloro-1,3-Butadiene
Concen: 13.928 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. 0.003 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

Tgt Ion:225 Resp: 339749
Ion Ratio Lower Upper
225 100
223 63.2 50.8 76.2
227 62.8 50.5 75.7





#79

Naphthalene

Concen: 23.333 ppbv

RT: 13.510 min Scan# 4146

Delta R.T. 0.003 min

Lab File: VL042533.D

Acq: 12 May 2025 14:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

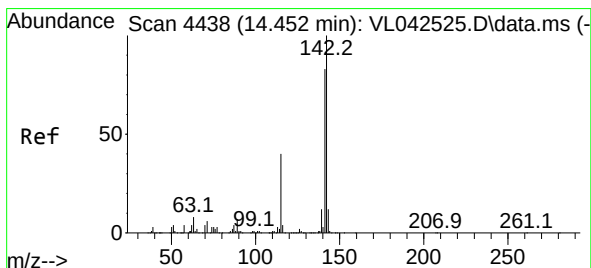
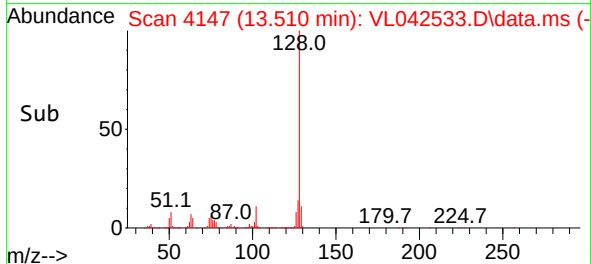
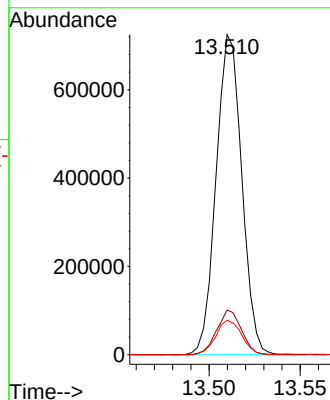
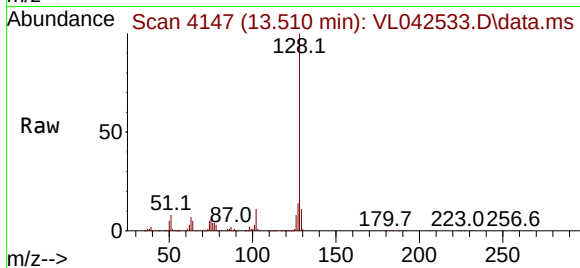
Tgt Ion:128 Resp: 708419

Ion Ratio Lower Upper

128 100

127 13.9 9.8 14.8

129 10.8 8.6 12.8



#80

Naphthalene,2-methyl-

Concen: 28.683 ppbv

RT: 14.455 min Scan# 4439

Delta R.T. 0.003 min

Lab File: VL042533.D

Acq: 12 May 2025 14:28

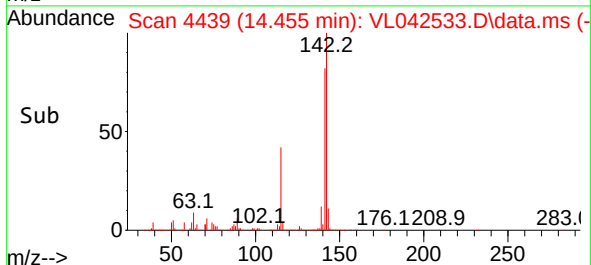
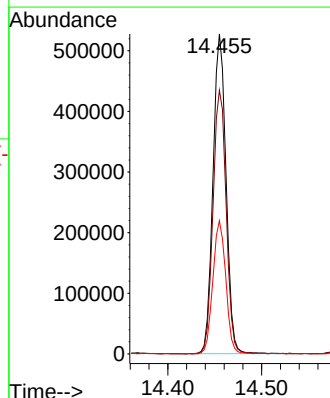
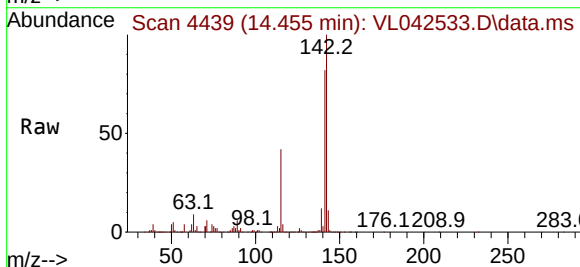
Tgt Ion:142 Resp: 506723

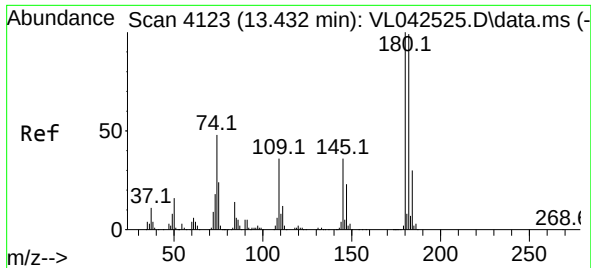
Ion Ratio Lower Upper

142 100

141 84.2 66.8 100.2

115 41.6 33.0 49.6





#81

1,2,4-Trichlorobenzene

Concen: 19.904 ppbv

RT: 13.439 min Scan# 41

Delta R.T. 0.006 min

Lab File: VL042533.D

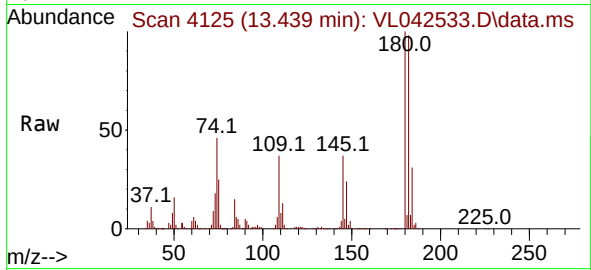
Acq: 12 May 2025 14:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015



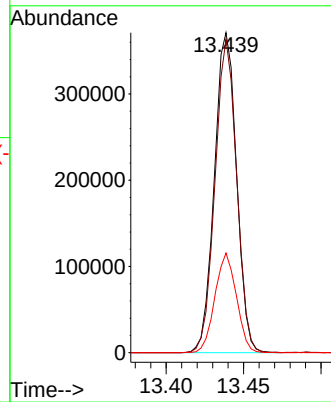
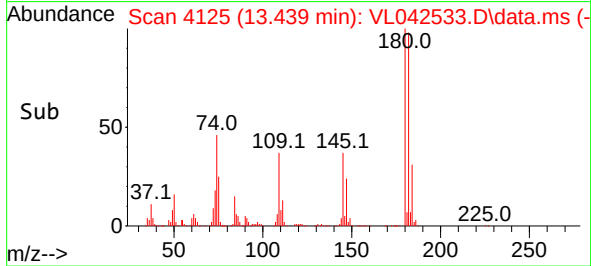
Tgt Ion:180 Resp: 368964

Ion Ratio Lower Upper

180 100

182 95.7 76.6 114.8

184 30.2 24.6 36.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051225\
 Data File : VL042534.D
 Acq On : 12 May 2025 16:10
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL051225

Quant Time: May 13 02:12:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue May 13 02:07:03 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.781	49	104793	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	308722	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	276426	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	237168	9.861	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.600%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	169352	9.952	ppbv	99
3) Chlorodifluoromethane	1.473	51	179743	10.365	ppbv	99
4) Chloromethane	1.528	50	67307	9.691	ppbv	99
5) Vinyl Chloride	1.577	62	65875	9.270	ppbv	98
6) Bromomethane	1.664	94	33010	9.781	ppbv	96
7) Chloroethane	1.700	64	25071	8.935	ppbv	98
8) Dichlorotetrafluoroethane	1.551	85	141921	9.693	ppbv	99
9) Propene	1.771	41	45219	12.024	ppbv	97
10) Heptane	4.972	43	176857	12.306	ppbv	98
11) Trichlorofluoromethane	1.871	101	160862	9.828	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.133	101	130708	9.942	ppbv	98
13) Ethanol	1.716	45	7859	7.769	ppbv	97
14) Bromoethene	1.777	108	49763	10.383	ppbv	97
15) Acetone	1.832	43	140624	8.325	ppbv	99
16) 1,3-Butadiene	1.606	39	74698	9.920	ppbv	98
17) tert-Butyl alcohol	2.036	59	160597	10.379	ppbv	99
18) 1,1-Dichloroethene	2.030	96	57778	10.028	ppbv	93
19) Isopropyl Alcohol	1.881	45	91861	10.098	ppbv	100
20) Methylene Chloride	2.056	84	50836	8.718	ppbv	97
21) Allyl Chloride	2.091	41	113385	10.227	ppbv	97
22) trans-1,2-Dichloroethene	2.334	96	66384	9.849	ppbv	96
23) Vinyl Acetate	2.457	43	181814	10.371	ppbv #	97
24) 1,1-Dichloroethane	2.402	63	129353	9.919	ppbv	99
25) Ethyl Acetate	2.832	43	335010	11.394	ppbv	99
26) Hexane	2.819	57	145797	12.078	ppbv	98
27) Carbon Disulfide	2.146	76	159609	10.243	ppbv	98
28) Methyl tert-Butyl Ether	2.434	73	71357	10.640	ppbv	98
29) Chloroform	2.842	83	248251	9.916	ppbv	100
30) Cyclohexane	3.849	84	125731	12.687	ppbv	98
31) cis-1,2-Dichloroethene	2.716	61	156337	11.469	ppbv	96
32) 1,1,1-Trichloroethane	3.363	97	260615	10.089	ppbv	99
34) 2-Butanone	2.554	43	215548	10.593	ppbv	99
35) Carbon Tetrachloride	3.755	117	275996	9.944	ppbv	99
36) Benzene	3.648	78	302608	11.060	ppbv	95
37) 1,2-Dichloroethane	3.211	62	197759	10.133	ppbv	99
38) Trichloroethene	4.541	130	124443	10.461	ppbv	92
39) 1,2-Dichloropropane	4.308	63	105794	10.381	ppbv	94
40) 1,4-Dioxane	4.577	88	46856	11.326	ppbv #	98
41) Tetrahydrofuran	3.049	42	108235	12.288	ppbv	98
42) Bromodichloromethane	4.480	83	269411	10.344	ppbv	96
43) Methyl Methacrylate	4.875	69	115023	12.553	ppbv	99
44) 2,2,4-Trimethylpentane	4.629	57	488308	11.264	ppbv	99
45) t-1,3-Dichloropropene	6.406	75	145771	12.452	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051225\
 Data File : VL042534.D
 Acq On : 12 May 2025 16:10
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

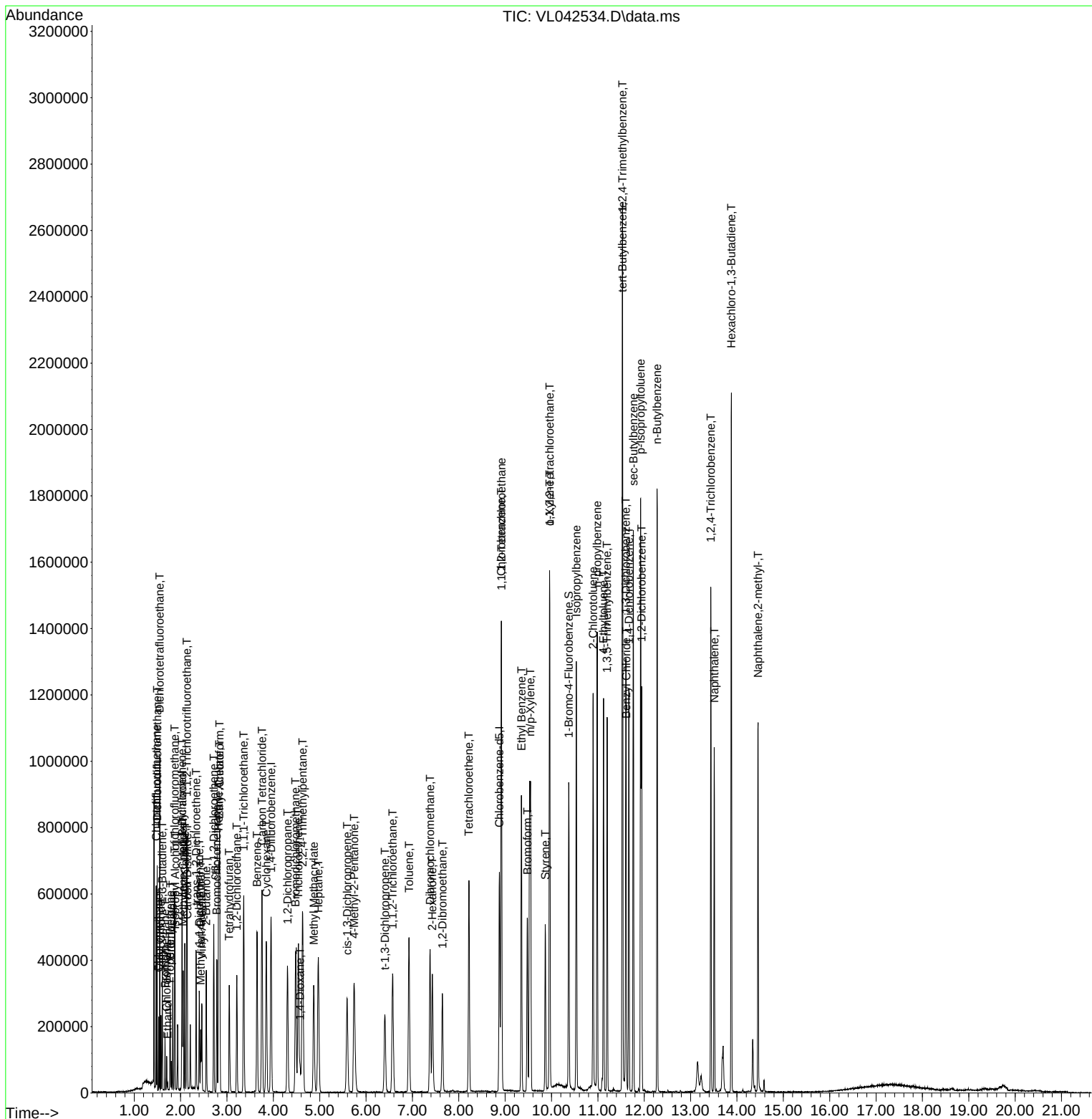
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL051225

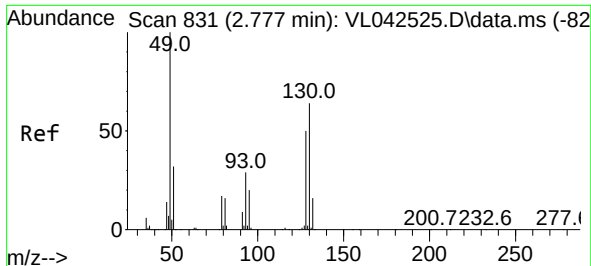
Quant Time: May 13 02:12:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue May 13 02:07:03 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	173741	12.337	ppbv	89
47) 1,1,2-Trichloroethane	6.574	97	122312	10.192	ppbv	95
48) Dibromochloromethane	7.380	129	213991	10.680	ppbv	99
49) Bromoform	9.480	173	179114	10.893	ppbv	99
50) 4-Methyl-2-Pentanone	5.742	43	283584	11.865	ppbv	100
51) 2-Hexanone	7.428	43	234324	13.181	ppbv #	98
52) Tetrachloroethene	8.218	164	108772	10.391	ppbv	92
53) Toluene	6.927	91	336112	12.519	ppbv	99
54) 1,2-Dibromoethane	7.645	107	185157	10.565	ppbv	93
56) 1,1,1,2-Tetrachloroethane	8.920	131	160912	9.389	ppbv	100
57) Chlorobenzene	8.917	112	274500	9.890	ppbv	94
58) Ethyl Benzene	9.351	91	487590	12.941	ppbv	92
59) m/p-Xylene	9.545	91	409341	12.233	ppbv #	100
60) o-Xylene	9.959	91	408333	12.495	ppbv	98
61) Styrene	9.866	104	166262	13.737	ppbv	99
62) Isopropylbenzene	10.536	105	589527	11.978	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.959	83	244748	9.228	ppbv	100
64) n-propylbenzene	10.985	120	149858	11.993	ppbv	96
65) tert-Butylbenzene	11.529	119	540642	11.963	ppbv	96
66) Benzyl Chloride	11.610	91	78976	13.151	ppbv	95
67) sec-Butylbenzene	11.765	105	731113	11.283	ppbv	100
69) p-Isopropyltoluene	11.924	119	635040	11.921	ppbv	99
70) n-Butylbenzene	12.277	91	641756	12.192	ppbv	99
71) 2-Chlorotoluene	10.898	91	460416	12.354	ppbv	100
72) 4-Ethyltoluene	11.121	105	504066	12.435	ppbv	99
73) 1,3,5-Trimethylbenzene	11.199	105	420393	11.906	ppbv	97
74) 1,2,4-Trimethylbenzene	11.532	105	477131	10.983	ppbv	91
75) 1,3-Dichlorobenzene	11.604	146	285094	10.479	ppbv	99
76) 1,4-Dichlorobenzene	11.668	146	280324	10.829	ppbv	99
77) 1,2-Dichlorobenzene	11.943	146	269510	9.590	ppbv	100
78) Hexachloro-1,3-Butadiene	13.879	225	223250	9.265	ppbv	99
79) Naphthalene	13.510	128	452623	15.035	ppbv	99
80) Naphthalene,2-methyl-	14.455	142	312897	18.008	ppbv	98
81) 1,2,4-Trichlorobenzene	13.436	180	241524	13.190	ppbv	98

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

Quant Time: May 13 02:12:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue May 13 02:07:03 2025
Response via : Initial Calibration

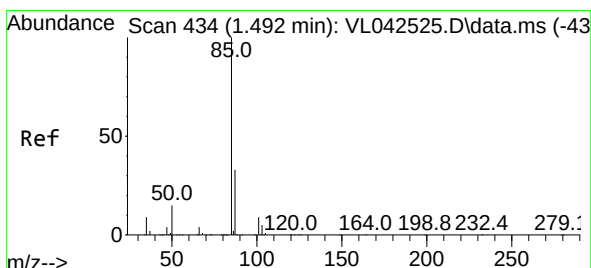
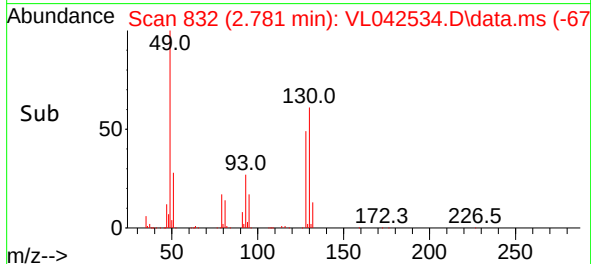
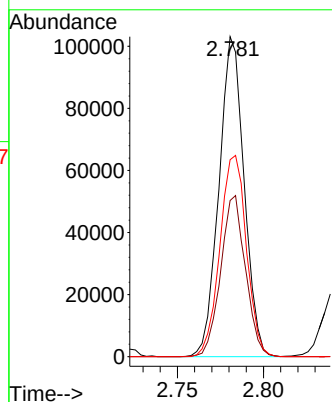
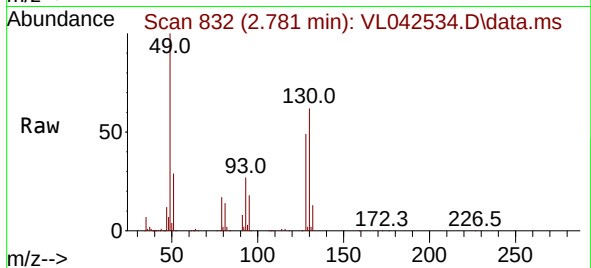




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 81
Delta R.T. 0.004 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

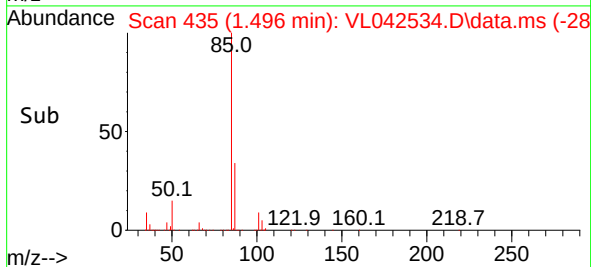
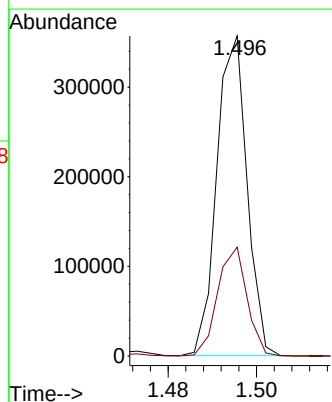
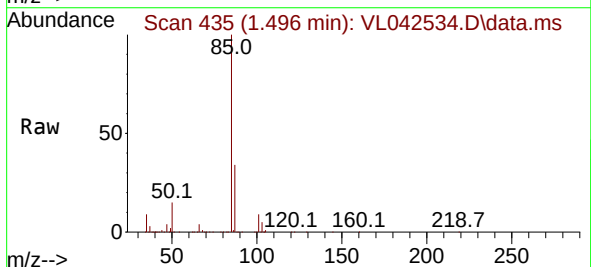
Instrument :
MSVOA_L
ClientSampleId :
ICVVL051225

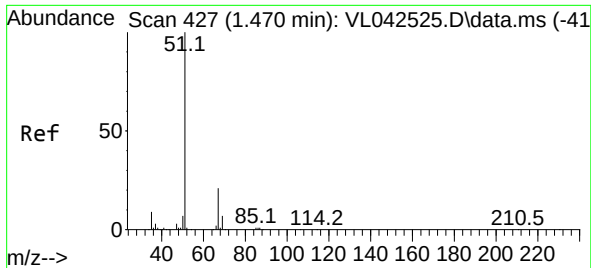
Tgt Ion: 49 Resp: 104793
Ion Ratio Lower Upper
49 100
128 49.6 24.9 74.6
130 66.3 32.5 97.5



#2
Dichlorodifluoromethane
Concen: 9.952 ppbv
RT: 1.496 min Scan# 435
Delta R.T. 0.003 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

Tgt Ion: 85 Resp: 169352
Ion Ratio Lower Upper
85 100
87 34.0 26.8 40.2

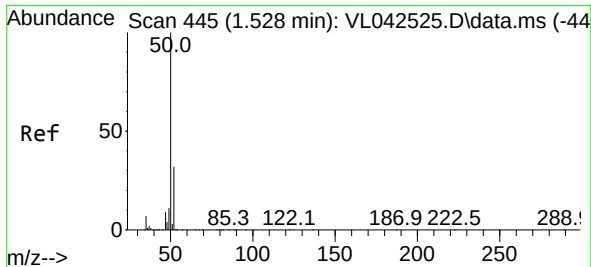
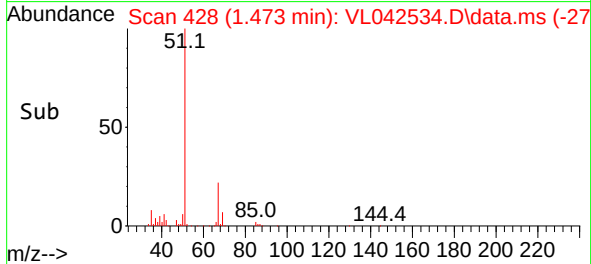
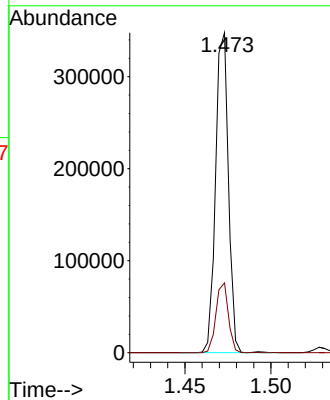
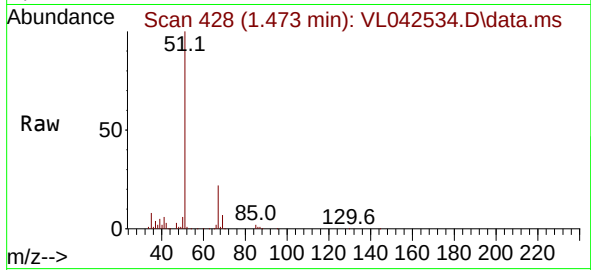




#3
Chlorodifluoromethane
Concen: 10.365 ppbv
RT: 1.473 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

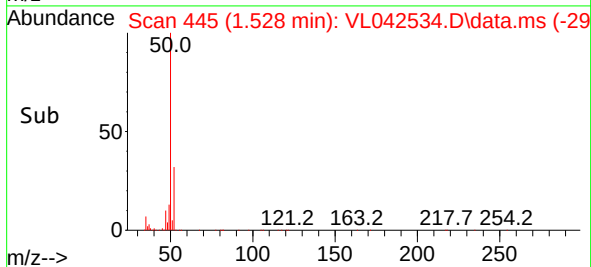
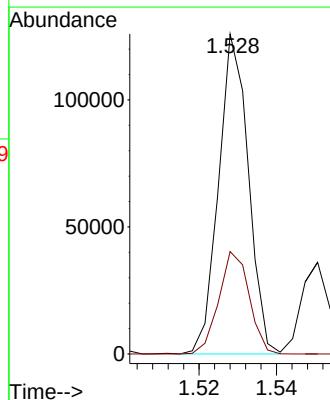
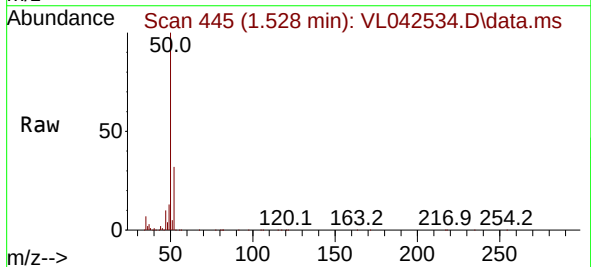
Instrument :
MSVOA_L
ClientSampleId :
ICVVL051225

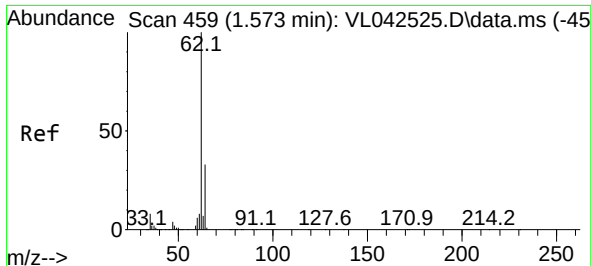
Tgt Ion: 51 Resp: 179743
Ion Ratio Lower Upper
51 100
67 21.1 17.4 26.0



#4
Chloromethane
Concen: 9.691 ppbv
RT: 1.528 min Scan# 445
Delta R.T. -0.000 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

Tgt Ion: 50 Resp: 67307
Ion Ratio Lower Upper
50 100
52 32.0 25.9 38.9

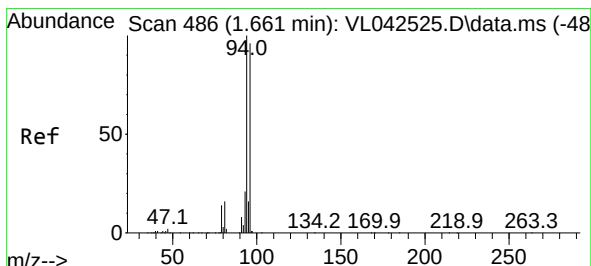
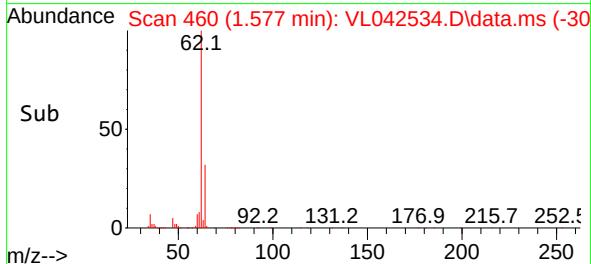
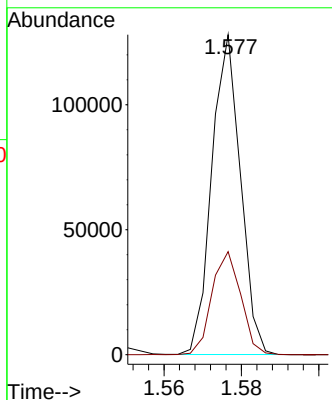
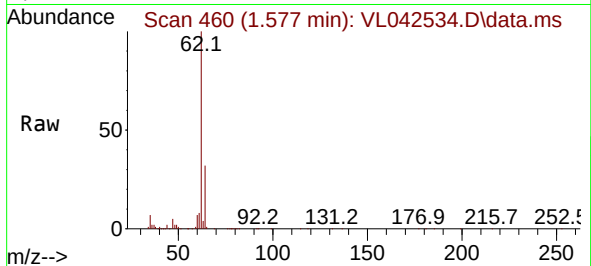




#5
 Vinyl Chloride
 Concen: 9.270 ppbv
 RT: 1.577 min Scan# 459
 Delta R.T. 0.003 min
 Lab File: VL042534.D
 Acq: 12 May 2025 16:10

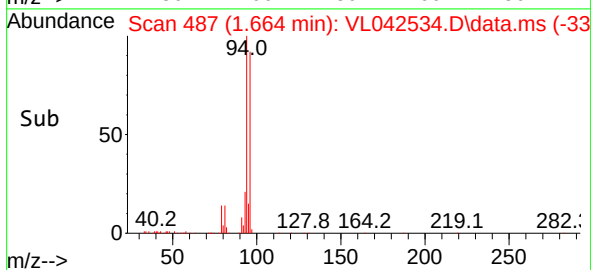
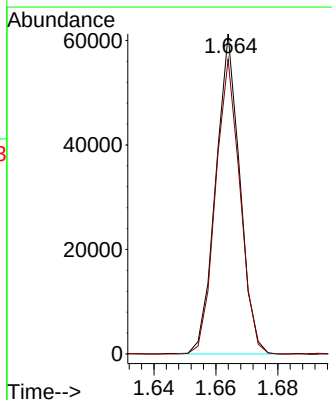
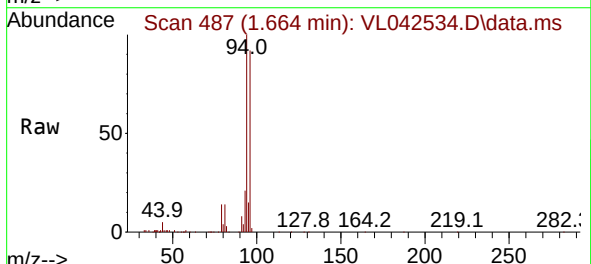
Instrument :
 MSVOA_1
 ClientSampleId :
 ICVVL051225

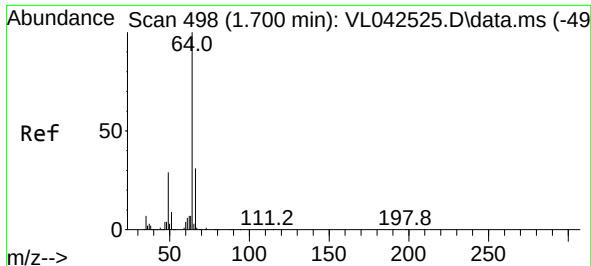
Tgt Ion: 62 Resp: 65875
 Ion Ratio Lower Upper
 62 100
 64 32.2 26.5 39.7



#6
 Bromomethane
 Concen: 9.781 ppbv
 RT: 1.664 min Scan# 487
 Delta R.T. 0.003 min
 Lab File: VL042534.D
 Acq: 12 May 2025 16:10

Tgt Ion: 94 Resp: 33010
 Ion Ratio Lower Upper
 94 100
 96 92.1 76.9 115.3

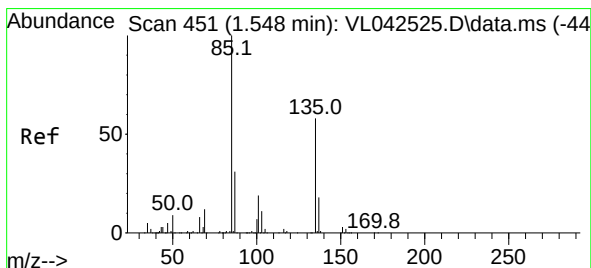
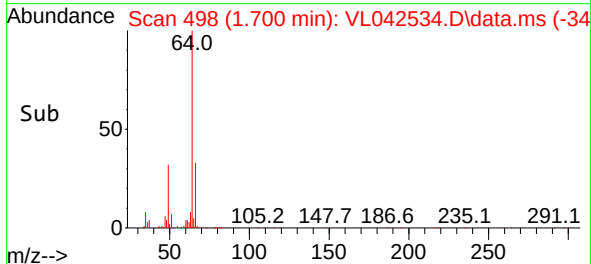
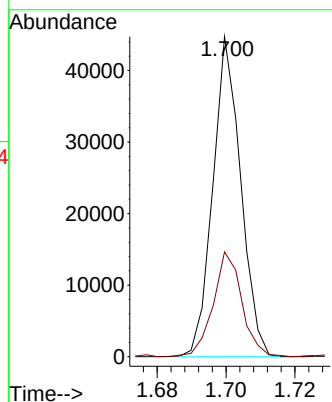
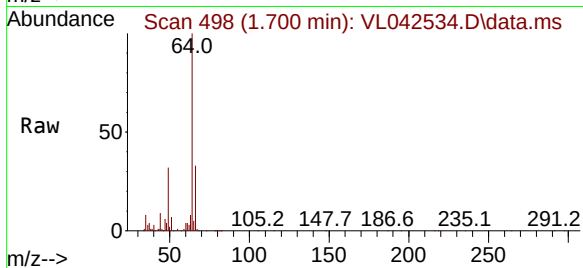




#7
Chloroethane
Concen: 8.935 ppbv
RT: 1.700 min Scan# 498
Delta R.T. -0.000 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

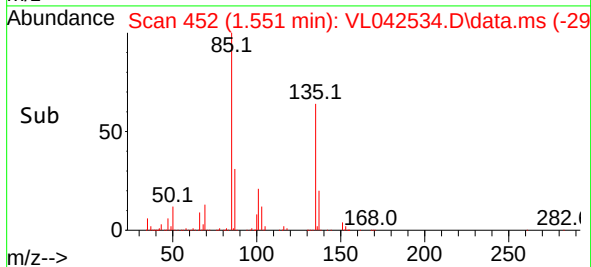
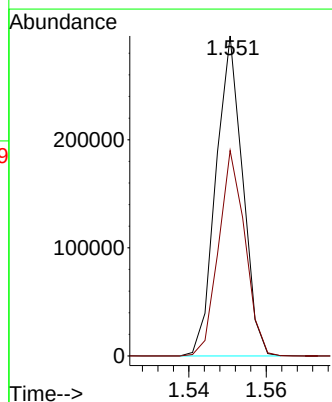
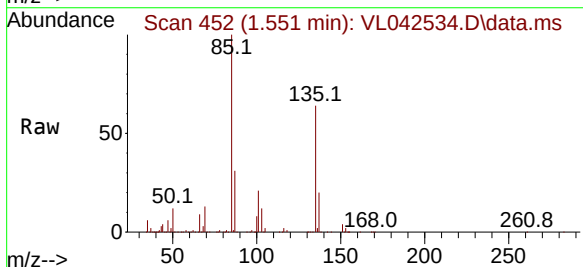
Instrument :
MSVOA_L
ClientSampleId :
ICVVL051225

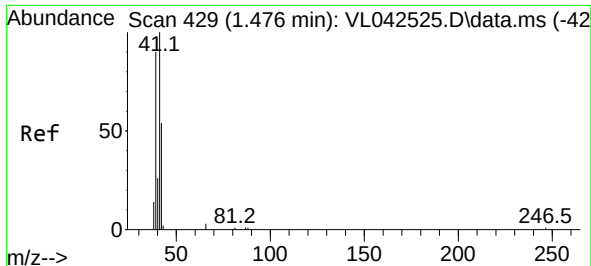
Tgt Ion: 64 Resp: 25071
Ion Ratio Lower Upper
64 100
66 32.8 25.1 37.7



#8
Dichlorotetrafluoroethane
Concen: 9.693 ppbv
RT: 1.551 min Scan# 452
Delta R.T. 0.003 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

Tgt Ion: 85 Resp: 141921
Ion Ratio Lower Upper
85 100
135 63.7 51.8 77.8





#9

Propene

Concen: 12.024 ppbv

RT: 1.771 min Scan# 51

Delta R.T. 0.294 min

Lab File: VL042534.D

Acq: 12 May 2025 16:10

Instrument :

MSVOA_L

ClientSampleId :

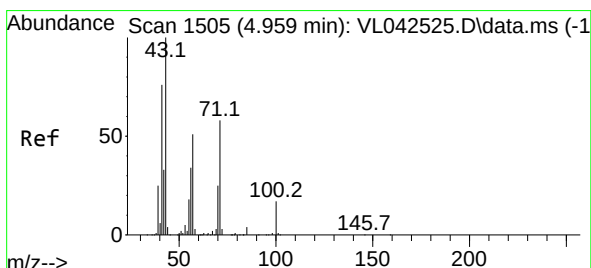
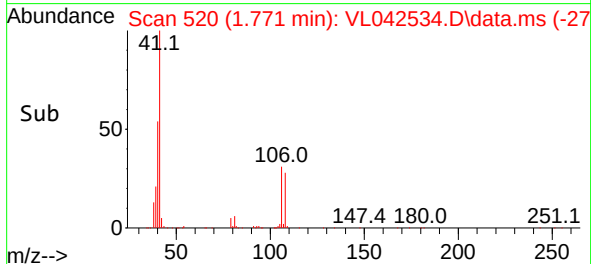
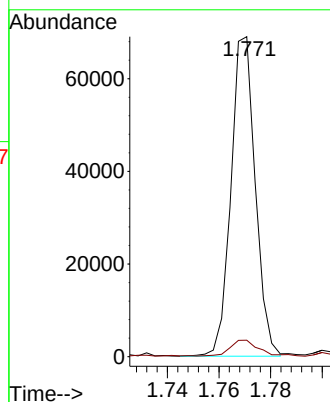
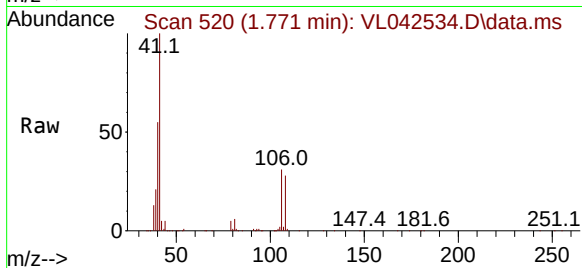
ICVVL051225

Tgt Ion: 41 Resp: 45219

Ion Ratio Lower Upper

41 100

42 6.0 4.1 6.1



#10

Heptane

Concen: 12.306 ppbv

RT: 4.972 min Scan# 1509

Delta R.T. 0.013 min

Lab File: VL042534.D

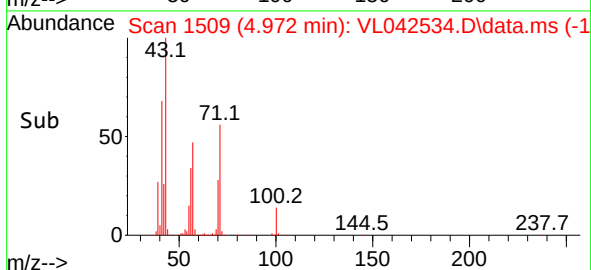
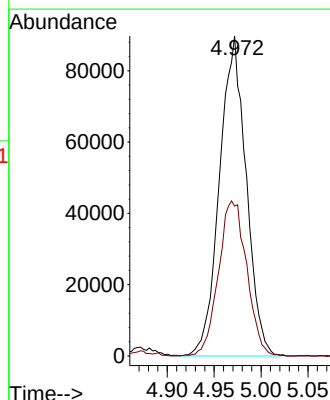
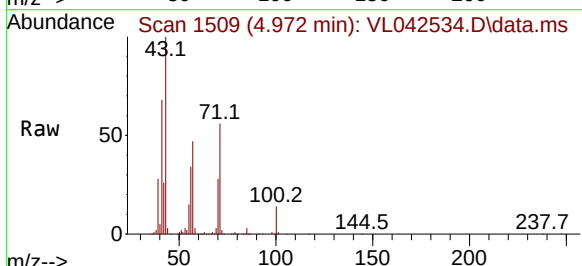
Acq: 12 May 2025 16:10

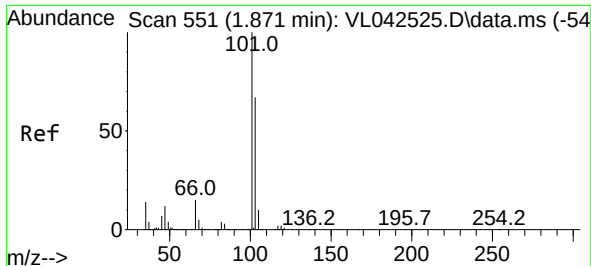
Tgt Ion: 43 Resp: 176857

Ion Ratio Lower Upper

43 100

57 51.4 42.1 63.1

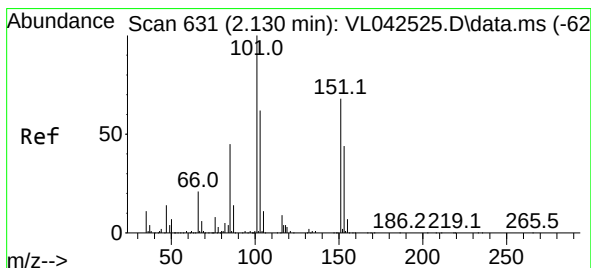
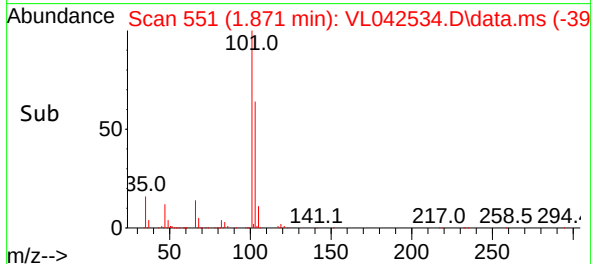
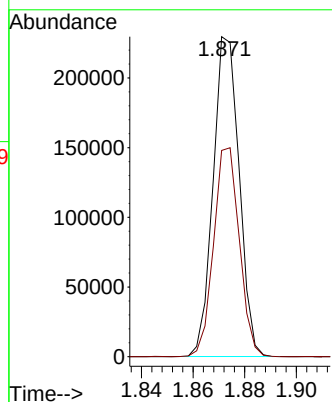
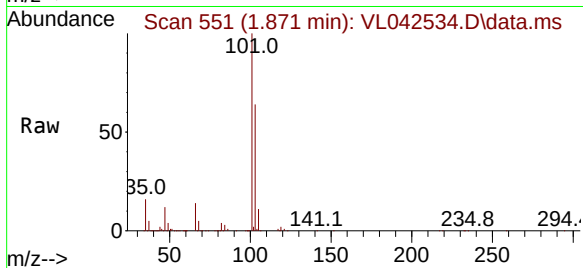




#11
 Trichlorofluoromethane
 Concen: 9.828 ppbv
 RT: 1.871 min Scan# 551
 Delta R.T. -0.000 min
 Lab File: VL042534.D
 Acq: 12 May 2025 16:10

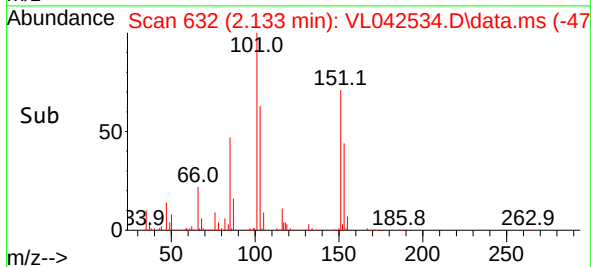
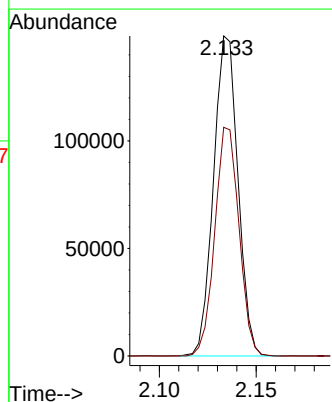
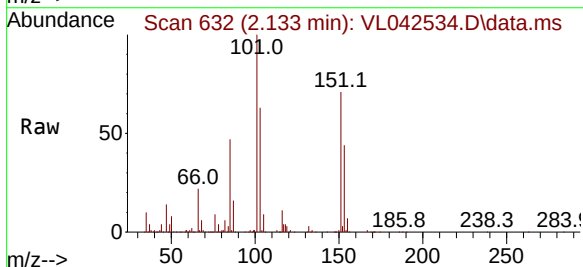
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL051225

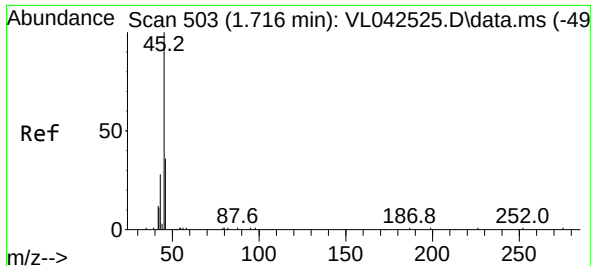
Tgt Ion:101 Resp: 160862
 Ion Ratio Lower Upper
 101 100
 103 64.5 53.8 80.6



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.942 ppbv
 RT: 2.133 min Scan# 632
 Delta R.T. 0.003 min
 Lab File: VL042534.D
 Acq: 12 May 2025 16:10

Tgt Ion:101 Resp: 130708
 Ion Ratio Lower Upper
 101 100
 151 70.7 57.8 86.8

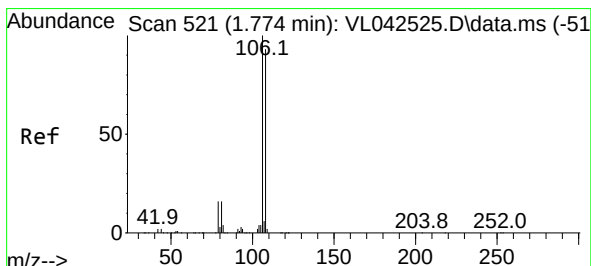
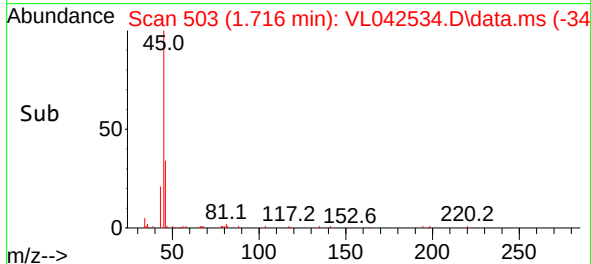
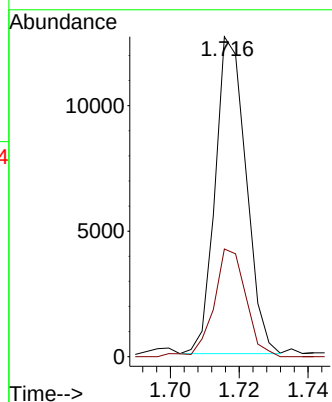
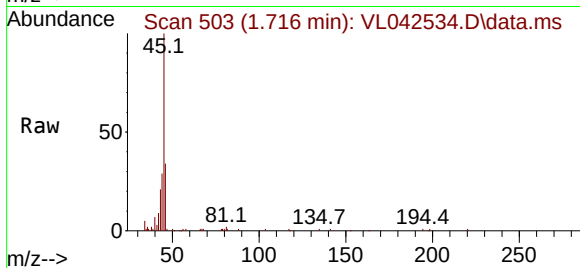




#13
Ethanol
Concen: 7.769 ppbv
RT: 1.716 min Scan# 503
Delta R.T. -0.000 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

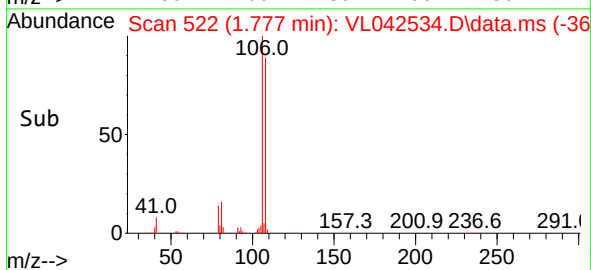
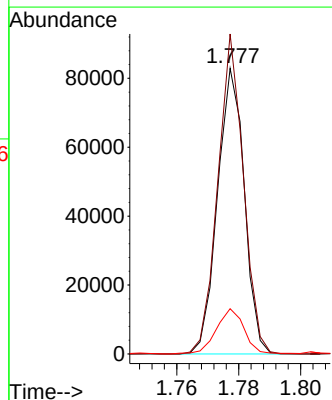
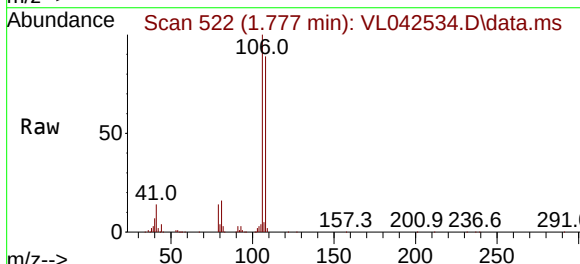
Instrument :
MSVOA_L
ClientSampleId :
ICVVL051225

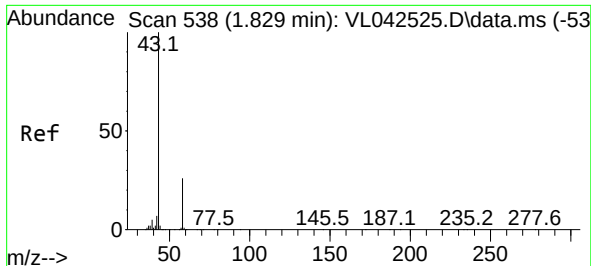
Tgt Ion: 45 Resp: 7859
Ion Ratio Lower Upper
45 100
46 35.4 14.8 59.4



#14
Bromoethene
Concen: 10.383 ppbv
RT: 1.777 min Scan# 522
Delta R.T. 0.003 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

Tgt Ion:108 Resp: 49763
Ion Ratio Lower Upper
108 100
106 106.9 87.4 131.2
79 16.0 15.1 22.7





#15

Acetone

Concen: 8.325 ppbv

RT: 1.832 min Scan# 51

Delta R.T. 0.003 min

Lab File: VL042534.D

Acq: 12 May 2025 16:10

Instrument :

MSVOA_L

ClientSampleId :

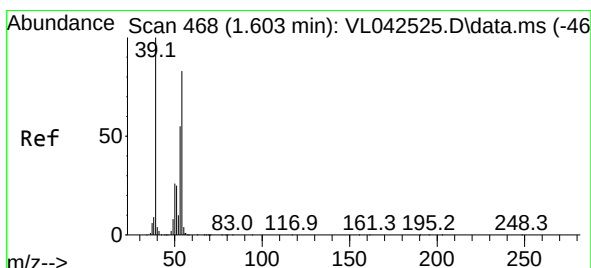
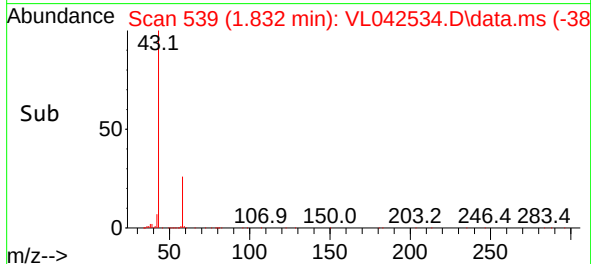
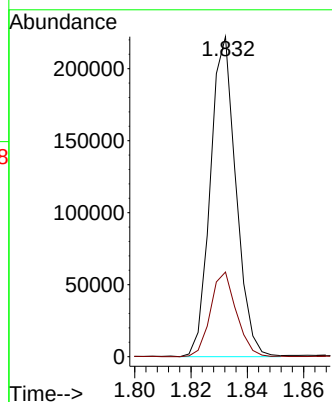
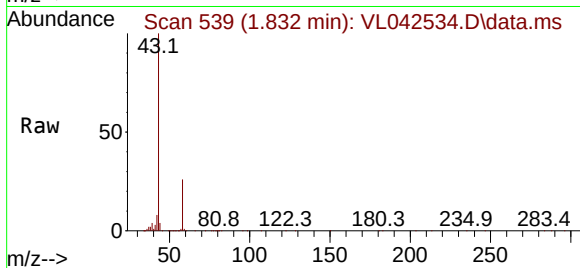
ICVVL051225

Tgt Ion: 43 Resp: 140624

Ion Ratio Lower Upper

43 100

58 26.9 21.3 31.9



#16

1,3-Butadiene

Concen: 9.920 ppbv

RT: 1.606 min Scan# 469

Delta R.T. 0.003 min

Lab File: VL042534.D

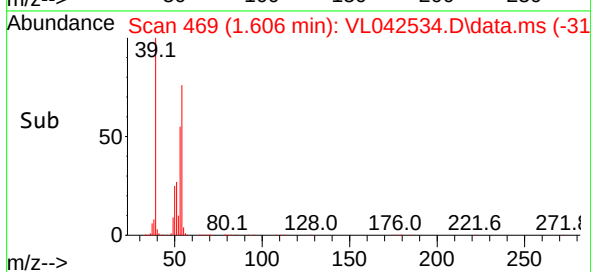
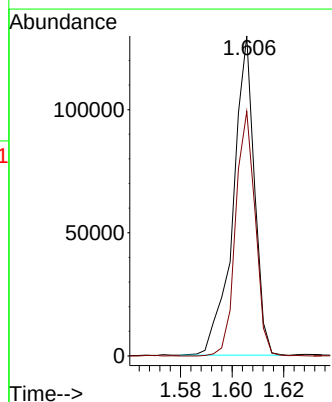
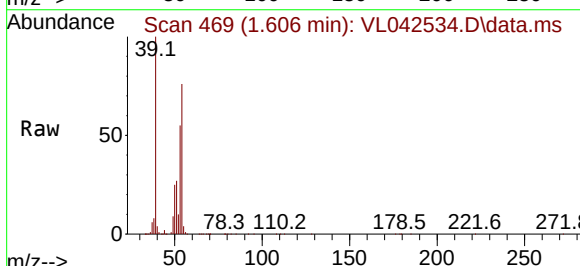
Acq: 12 May 2025 16:10

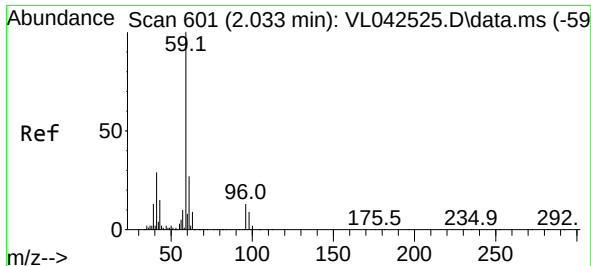
Tgt Ion: 39 Resp: 74698

Ion Ratio Lower Upper

39 100

54 70.3 57.8 86.6





#17

tert-Butyl alcohol

Concen: 10.379 ppbv

RT: 2.036 min Scan# 601

Delta R.T. 0.003 min

Lab File: VL042534.D

Acq: 12 May 2025 16:10

Instrument :

MSVOA_L

ClientSampleId :

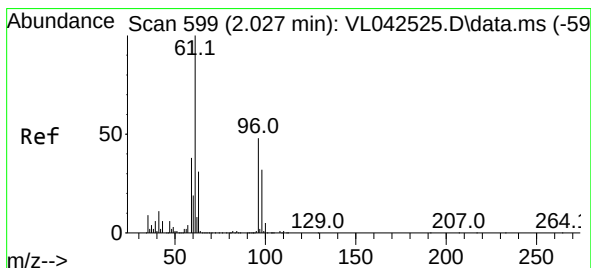
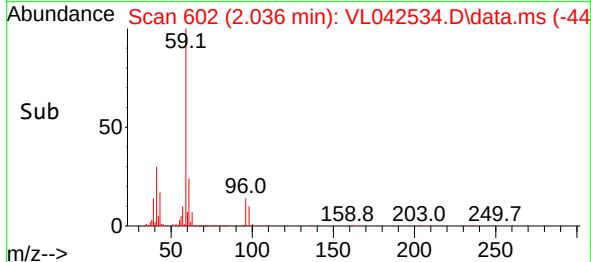
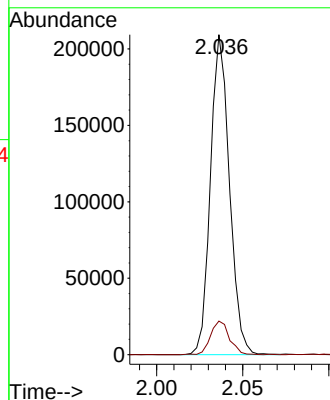
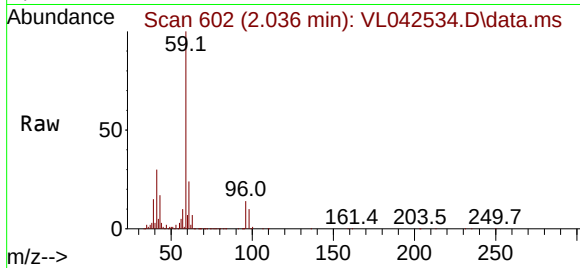
ICVVL051225

Tgt Ion: 59 Resp: 160597

Ion Ratio Lower Upper

59 100

57 10.5 8.2 12.4



#18

1,1-Dichloroethene

Concen: 10.028 ppbv

RT: 2.030 min Scan# 600

Delta R.T. 0.003 min

Lab File: VL042534.D

Acq: 12 May 2025 16:10

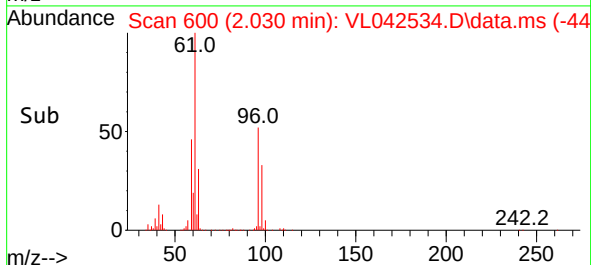
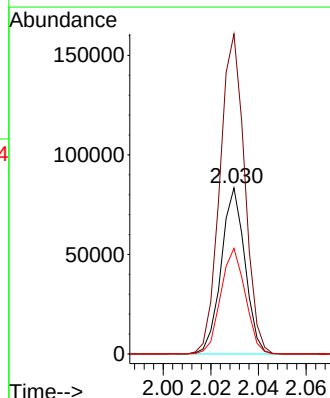
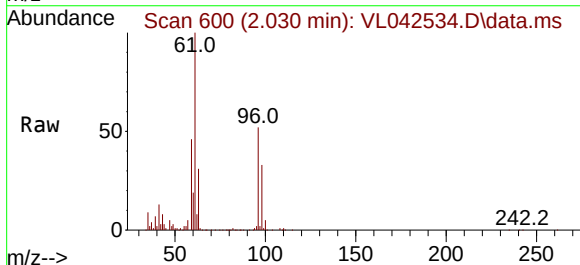
Tgt Ion: 96 Resp: 57778

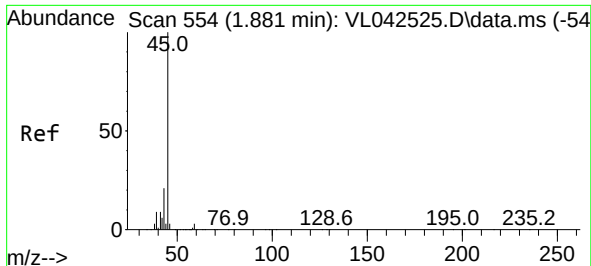
Ion Ratio Lower Upper

96 100

61 192.6 165.0 247.4

98 63.4 52.6 79.0

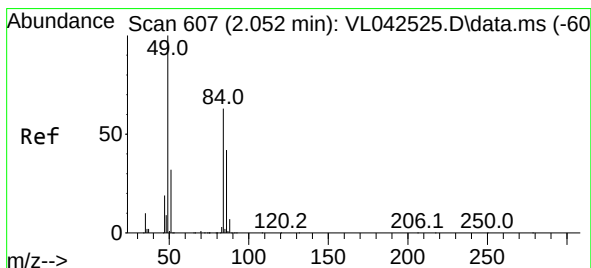
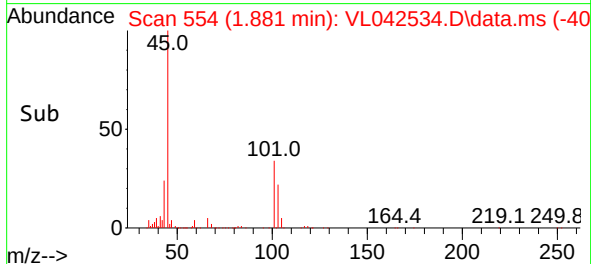
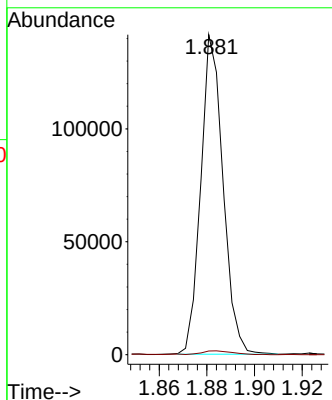
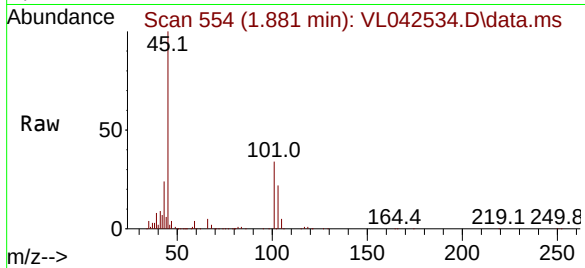




#19
Isopropyl Alcohol
Concen: 10.098 ppbv
RT: 1.881 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

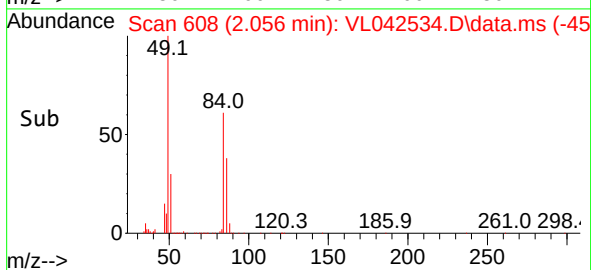
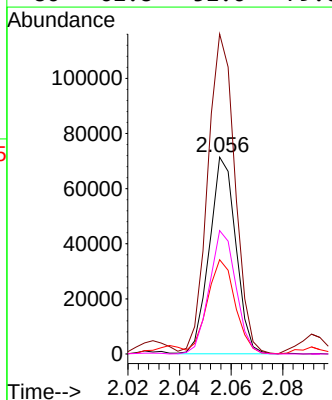
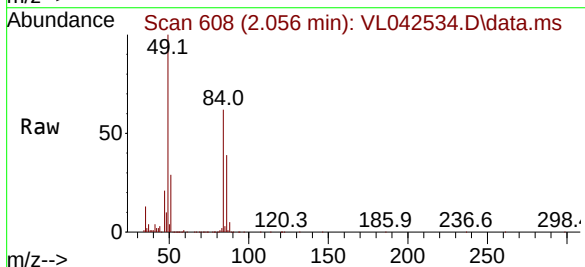
Instrument :
MSVOA_L
ClientSampleId :
ICVVL051225

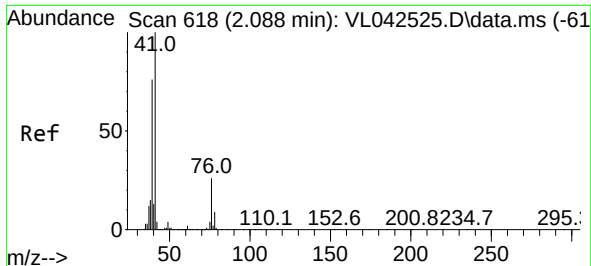
Tgt Ion: 45 Resp: 91861
Ion Ratio Lower Upper
45 100
58 1.9 1.5 2.3



#20
Methylene Chloride
Concen: 8.718 ppbv
RT: 2.056 min Scan# 608
Delta R.T. 0.003 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

Tgt Ion: 84 Resp: 50836
Ion Ratio Lower Upper
84 100
49 162.7 128.2 192.4
51 47.7 41.7 62.5
86 62.8 52.6 79.0





#21

Allyl Chloride

Concen: 10.227 ppbv

RT: 2.091 min Scan# 618

Delta R.T. 0.003 min

Lab File: VL042534.D

Acq: 12 May 2025 16:10

Instrument :

MSVOA_L

ClientSampleId :

ICVVL051225

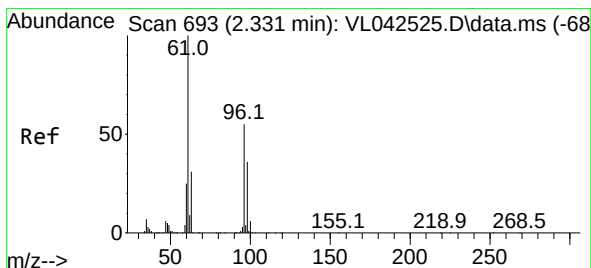
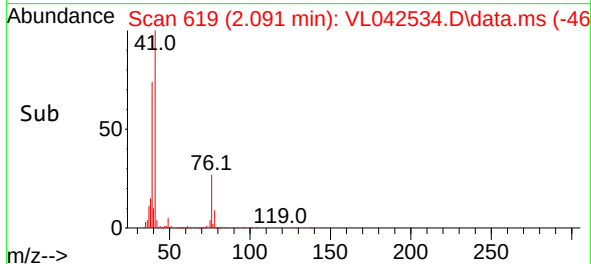
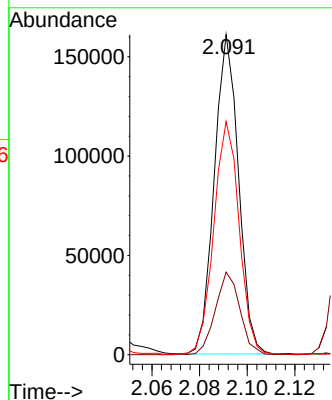
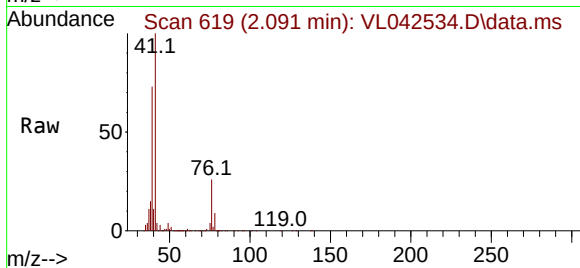
Tgt Ion: 41 Resp: 113385

Ion Ratio Lower Upper

41 100

76 26.3 22.0 33.0

39 76.7 59.5 89.3



#22

trans-1,2-Dichloroethene

Concen: 9.849 ppbv

RT: 2.334 min Scan# 694

Delta R.T. 0.003 min

Lab File: VL042534.D

Acq: 12 May 2025 16:10

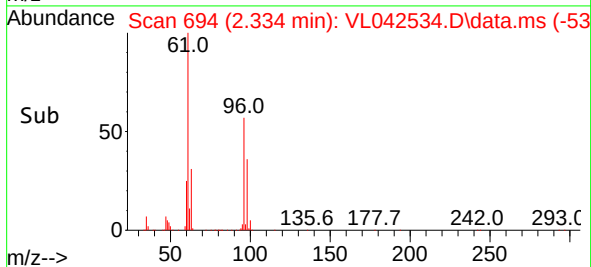
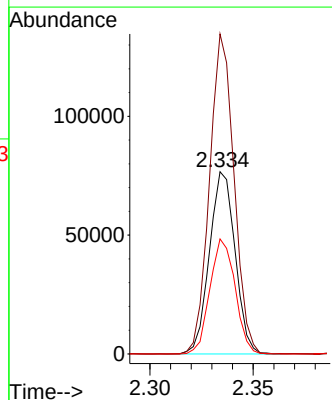
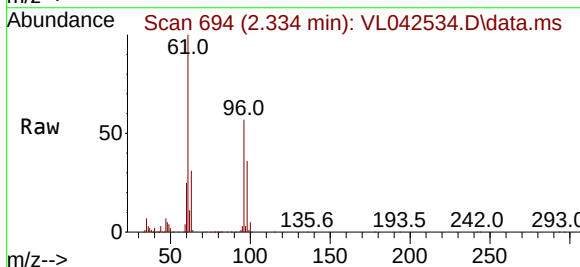
Tgt Ion: 96 Resp: 66384

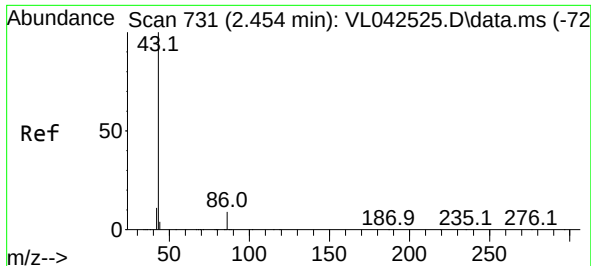
Ion Ratio Lower Upper

96 100

61 175.4 145.9 218.9

98 63.2 52.2 78.4

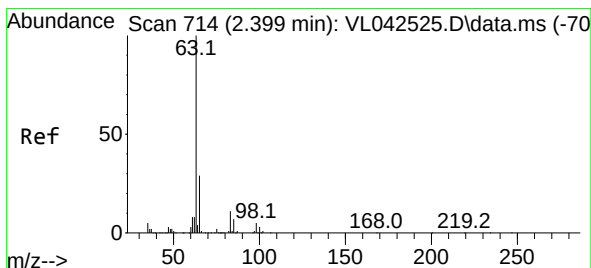
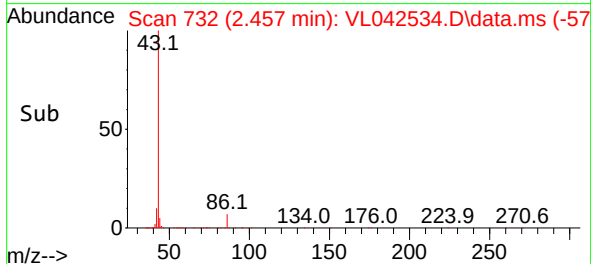
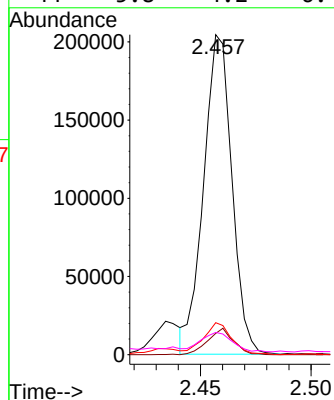
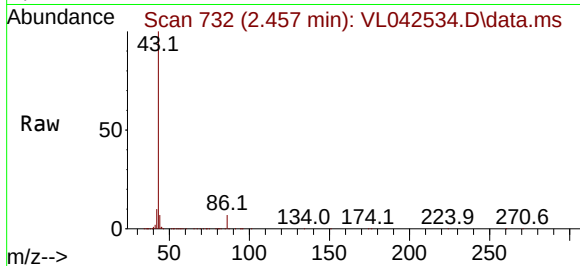




#23
 Vinyl Acetate
 Concen: 10.371 ppbv
 RT: 2.457 min Scan# 715
 Delta R.T. 0.003 min
 Lab File: VL042534.D
 Acq: 12 May 2025 16:10

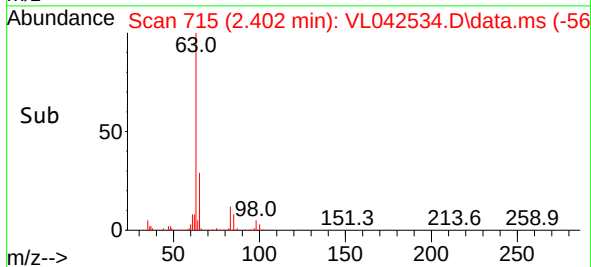
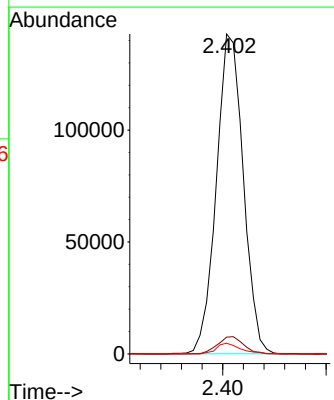
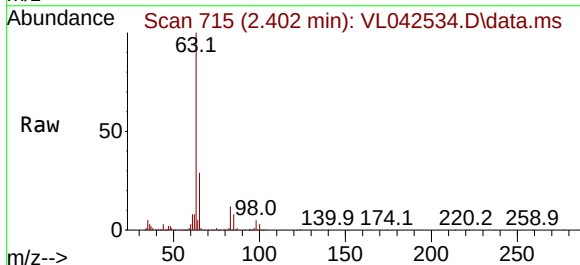
Instrument :
 MSVOA_1
 ClientSampleId :
 ICVVL051225

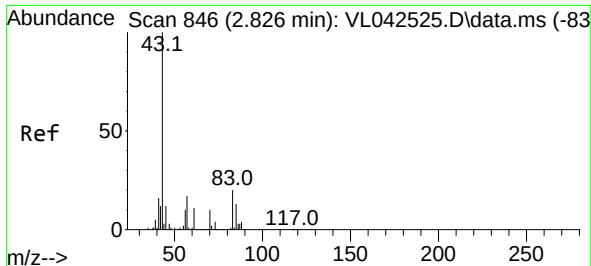
Tgt Ion: 43 Resp: 181814
 Ion Ratio Lower Upper
 43 100
 86 6.7 6.8 10.2#
 42 10.0 8.8 13.2
 44 5.8 4.2 6.4



#24
 1,1-Dichloroethane
 Concen: 9.919 ppbv
 RT: 2.402 min Scan# 715
 Delta R.T. 0.003 min
 Lab File: VL042534.D
 Acq: 12 May 2025 16:10

Tgt Ion: 63 Resp: 129353
 Ion Ratio Lower Upper
 63 100
 98 5.3 2.6 8.0
 100 3.4 1.4 4.2



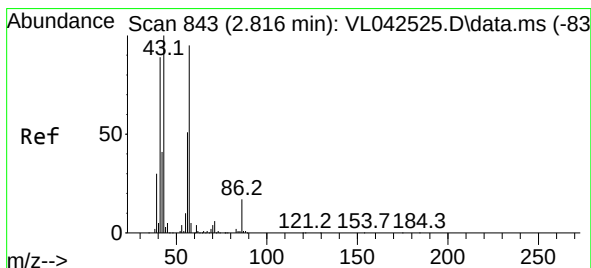
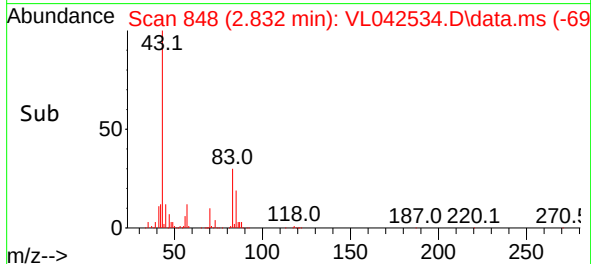
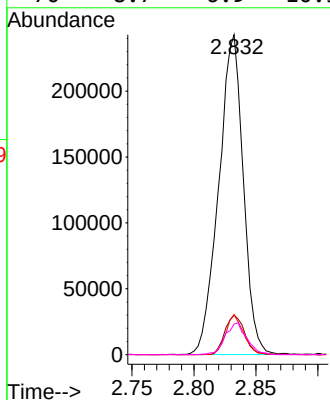
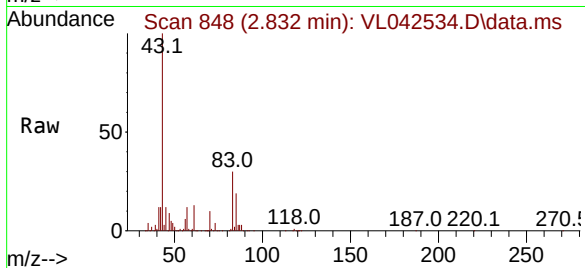


#25
Ethyl Acetate
Concen: 11.394 ppbv
RT: 2.832 min Scan# 846
Delta R.T. 0.006 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

Instrument :
MSVOA_L
ClientSampleId :
ICVVL051225

Tgt Ion: 43 Resp: 335010

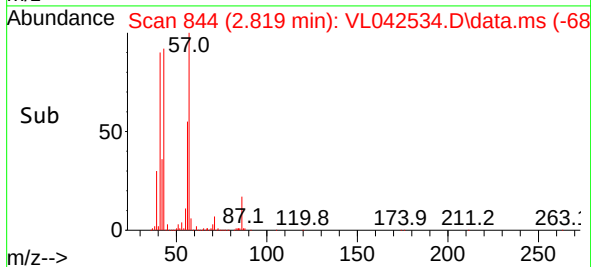
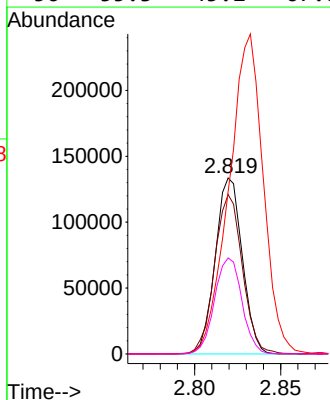
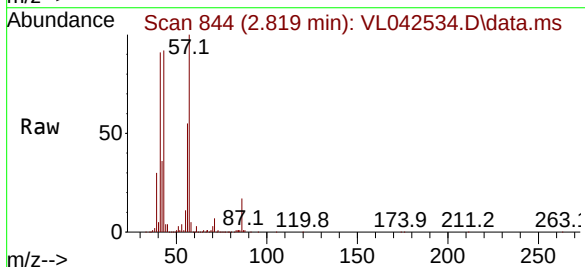
Ion	Ratio	Lower	Upper
43	100		
45	10.1	7.9	11.9
61	9.3	7.1	10.7
70	8.7	6.9	10.3

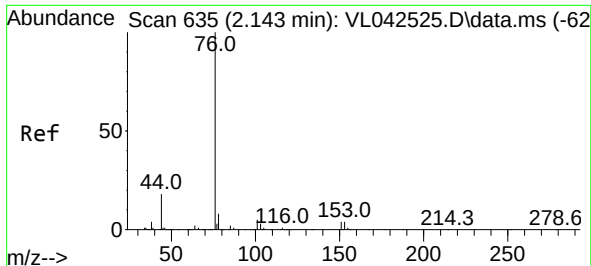


#26
Hexane
Concen: 12.078 ppbv
RT: 2.819 min Scan# 844
Delta R.T. 0.003 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

Tgt Ion: 57 Resp: 145797

Ion	Ratio	Lower	Upper
57	100		
41	93.6	76.1	114.1
43	231.0	188.9	283.3
56	55.3	45.2	67.8

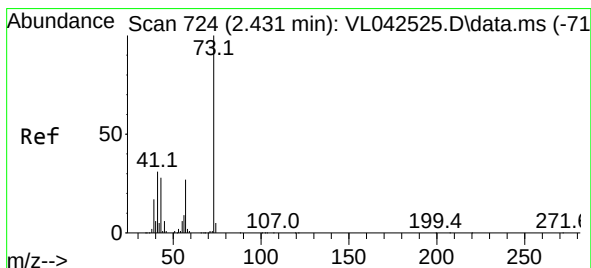
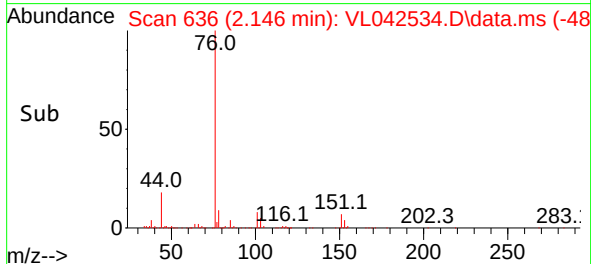
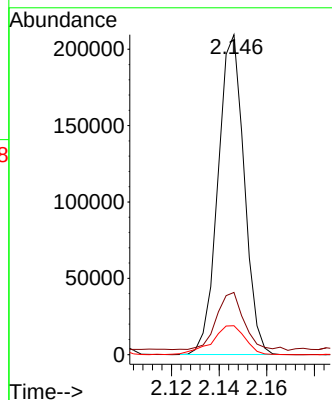
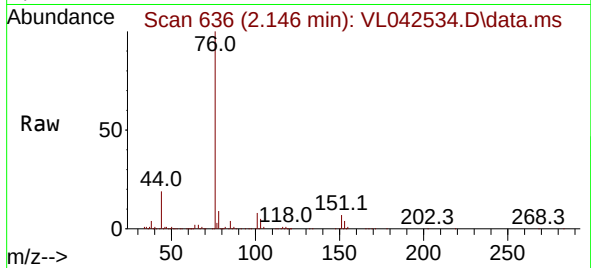




#27
Carbon Disulfide
Concen: 10.243 ppbv
RT: 2.146 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

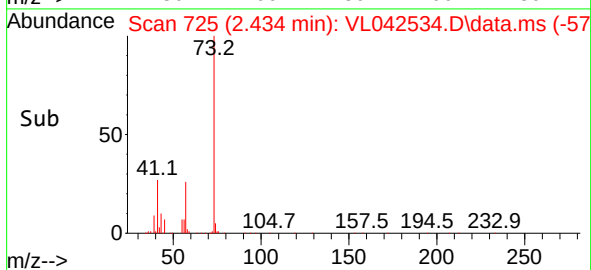
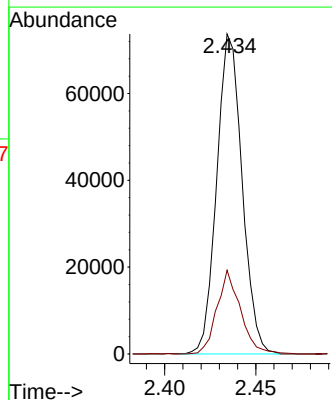
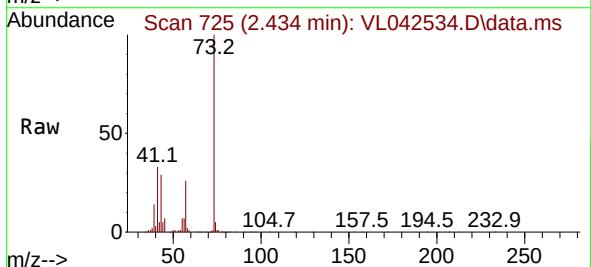
Instrument :
MSVOA_1
ClientSampleId :
ICVVL051225

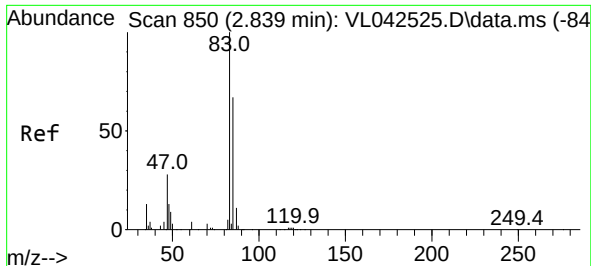
Tgt Ion: 76 Resp: 159609
Ion Ratio Lower Upper
76 100
44 20.5 17.1 25.7
78 11.6 8.6 12.8



#28
Methyl tert-Butyl Ether
Concen: 10.640 ppbv
RT: 2.434 min Scan# 725
Delta R.T. 0.003 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

Tgt Ion: 73 Resp: 71357
Ion Ratio Lower Upper
73 100
57 24.4 20.3 30.5





#29

Chloroform

Concen: 9.916 ppbv

RT: 2.842 min Scan# 851

Delta R.T. 0.003 min

Lab File: VL042534.D

Acq: 12 May 2025 16:10

Instrument :

MSVOA_L

ClientSampleId :

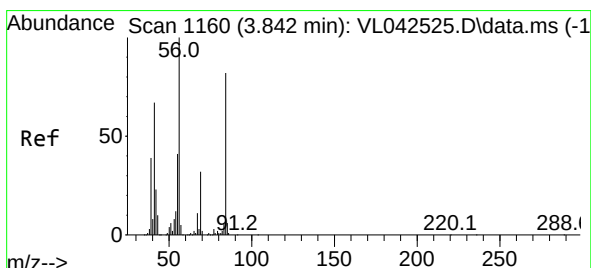
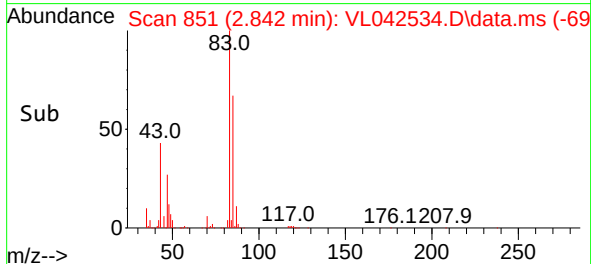
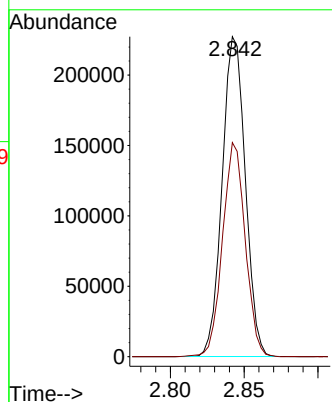
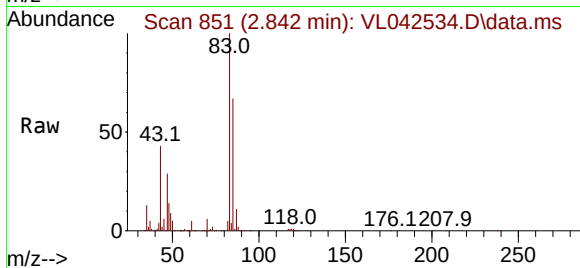
ICVVL051225

Tgt Ion: 83 Resp: 248251

Ion Ratio Lower Upper

83 100

85 66.9 53.5 80.3



#30

Cyclohexane

Concen: 12.687 ppbv

RT: 3.849 min Scan# 1162

Delta R.T. 0.006 min

Lab File: VL042534.D

Acq: 12 May 2025 16:10

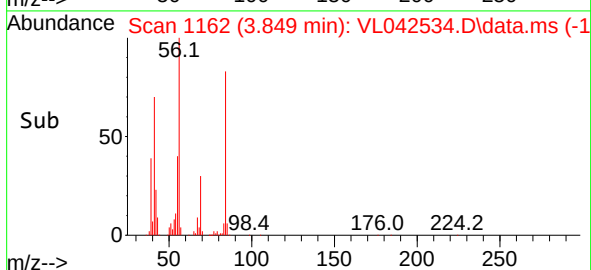
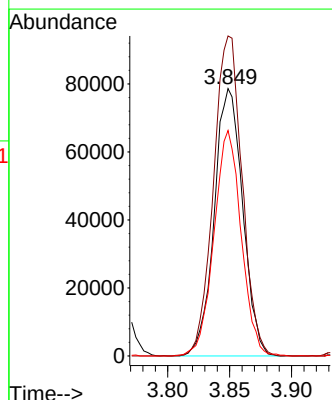
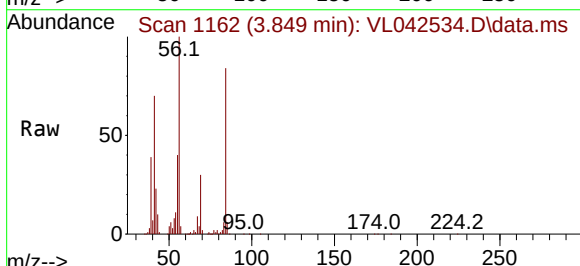
Tgt Ion: 84 Resp: 125731

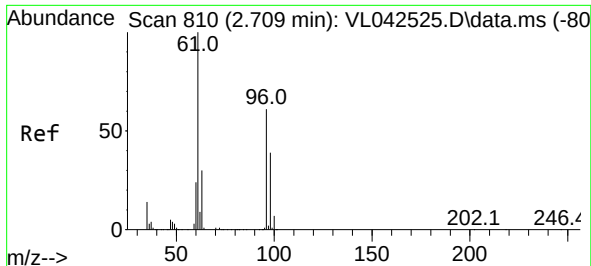
Ion Ratio Lower Upper

84 100

56 120.5 97.1 145.7

41 80.8 66.6 99.8

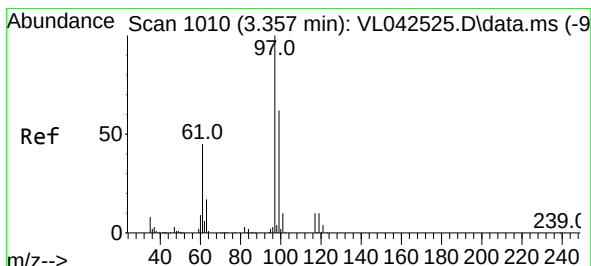
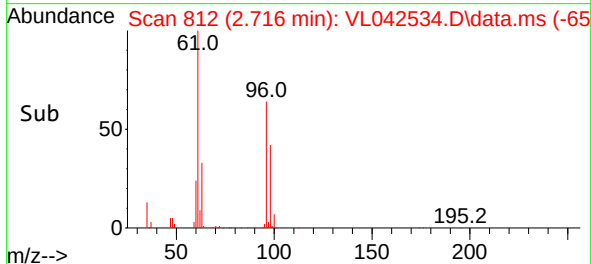
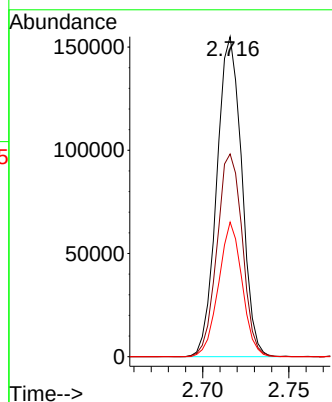
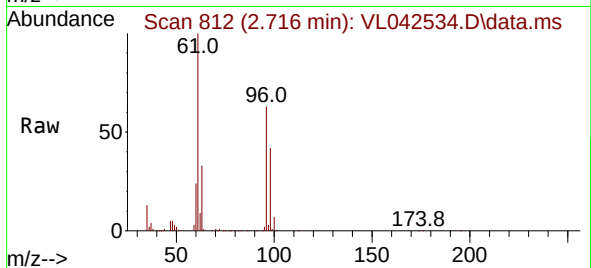




#31
 cis-1,2-Dichloroethene
 Concen: 11.469 ppbv
 RT: 2.716 min Scan# 810
 Delta R.T. 0.006 min
 Lab File: VL042534.D
 Acq: 12 May 2025 16:10

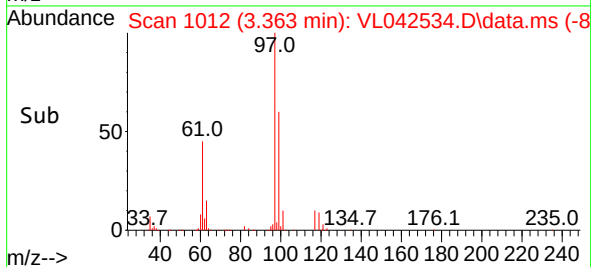
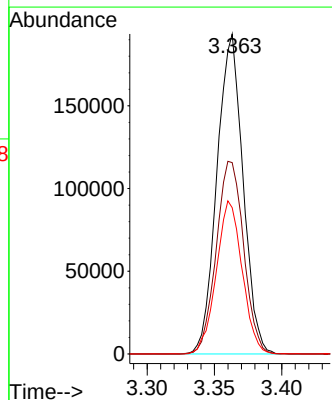
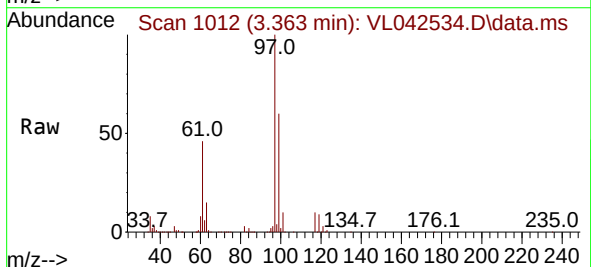
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL051225

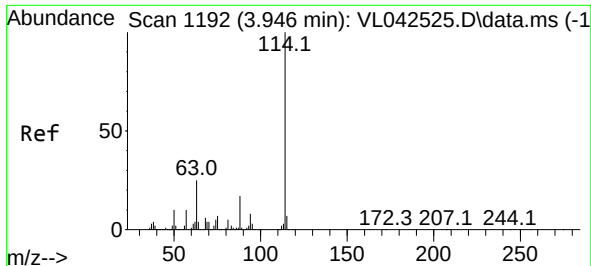
Tgt Ion: 61 Resp: 156337
 Ion Ratio Lower Upper
 61 100
 96 63.4 48.9 73.3
 98 42.1 31.4 47.2



#32
 1,1,1-Trichloroethane
 Concen: 10.089 ppbv
 RT: 3.363 min Scan# 1012
 Delta R.T. 0.006 min
 Lab File: VL042534.D
 Acq: 12 May 2025 16:10

Tgt Ion: 97 Resp: 260615
 Ion Ratio Lower Upper
 97 100
 99 63.2 50.1 75.1
 61 47.6 38.2 57.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. 0.006 min

Lab File: VL042534.D

Acq: 12 May 2025 16:10

Instrument :

MSVOA_L

ClientSampleId :

ICVVL051225

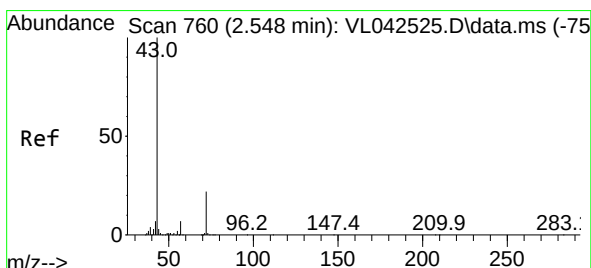
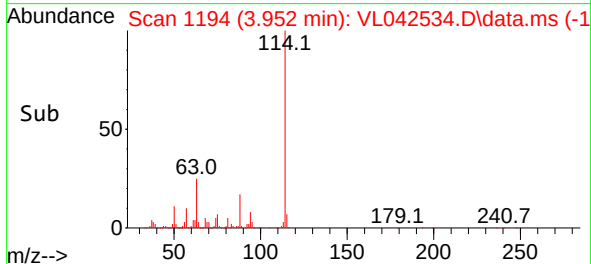
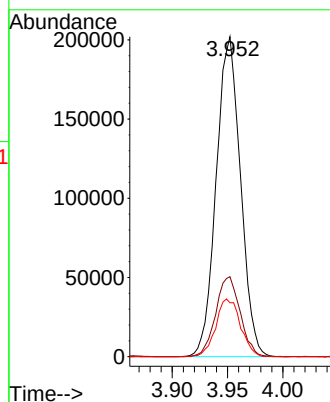
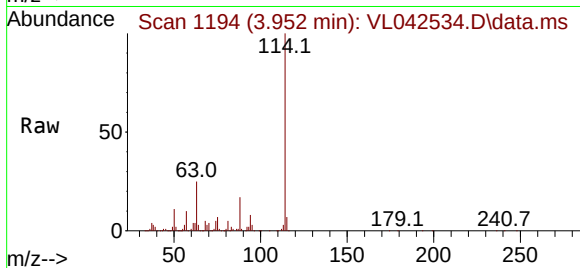
Tgt Ion:114 Resp: 308722

Ion Ratio Lower Upper

114 100

63 25.2 20.4 30.6

88 18.3 14.5 21.7



#34

2-Butanone

Concen: 10.593 ppbv

RT: 2.554 min Scan# 762

Delta R.T. 0.006 min

Lab File: VL042534.D

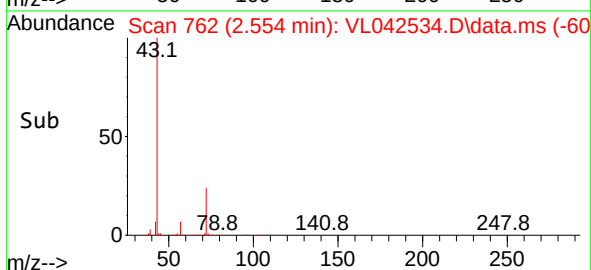
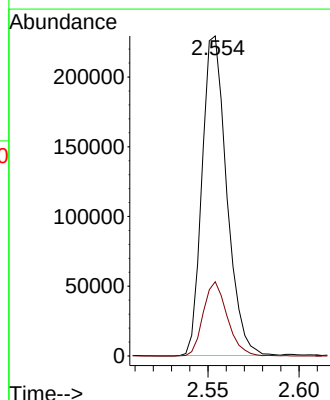
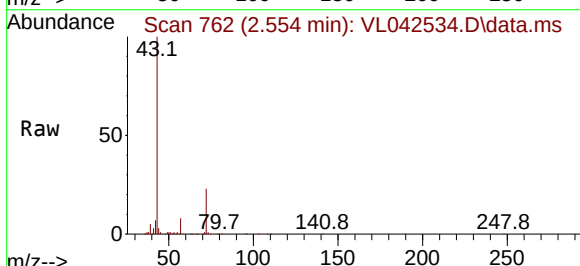
Acq: 12 May 2025 16:10

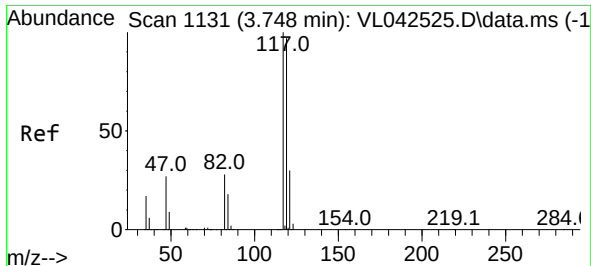
Tgt Ion: 43 Resp: 215548

Ion Ratio Lower Upper

43 100

72 22.7 18.7 28.1

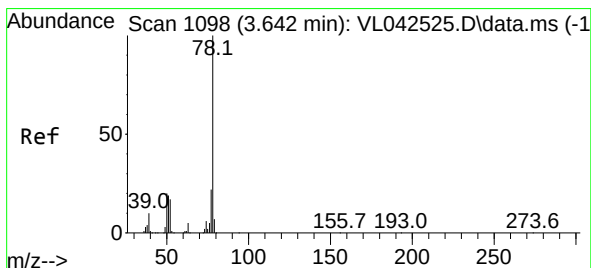
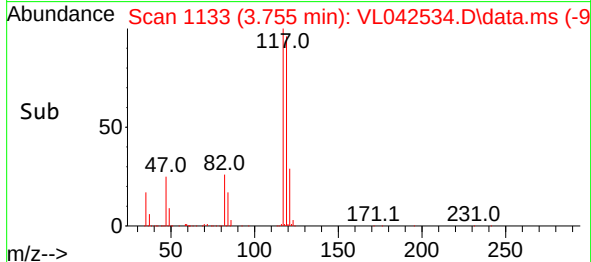
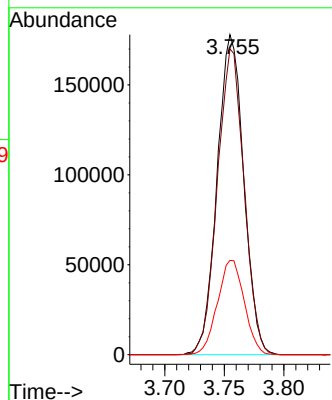
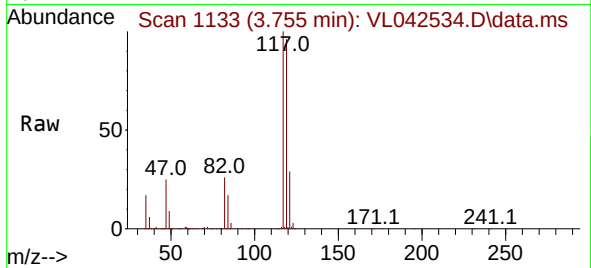




#35
Carbon Tetrachloride
Concen: 9.944 ppbv
RT: 3.755 min Scan# 1131
Delta R.T. 0.006 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

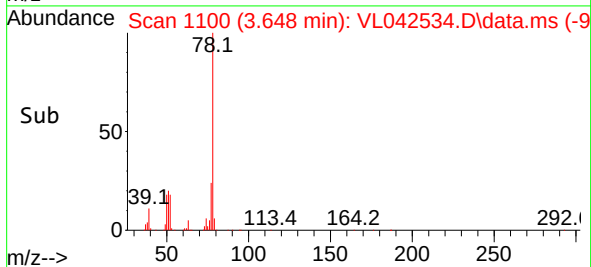
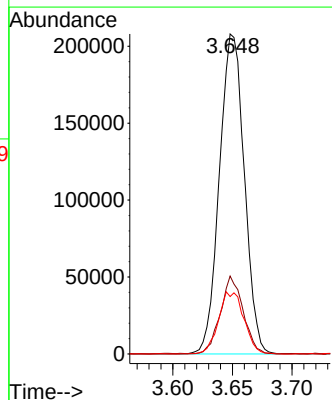
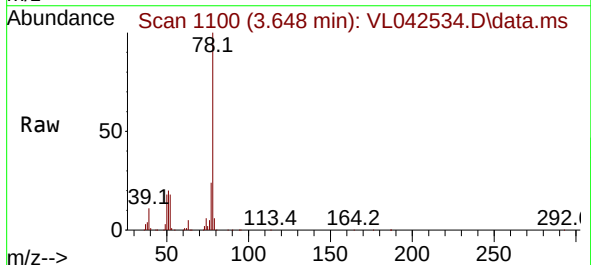
Instrument :
MSVOA_L
ClientSampleId :
ICVVL051225

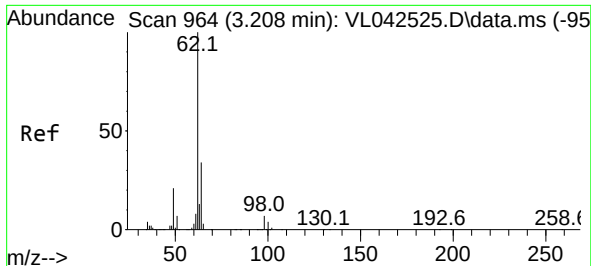
Tgt Ion:117 Resp: 275996
Ion Ratio Lower Upper
117 100
119 95.5 77.7 116.5
121 29.5 24.0 36.0



#36
Benzene
Concen: 11.060 ppbv
RT: 3.648 min Scan# 1100
Delta R.T. 0.006 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

Tgt Ion: 78 Resp: 302608
Ion Ratio Lower Upper
78 100
77 24.3 17.4 26.2
50 18.0 16.3 24.5





#37

1,2-Dichloroethane

Concen: 10.133 ppbv

RT: 3.211 min Scan# 9

Delta R.T. 0.003 min

Lab File: VL042534.D

Acq: 12 May 2025 16:10

Instrument :

MSVOA_L

ClientSampleId :

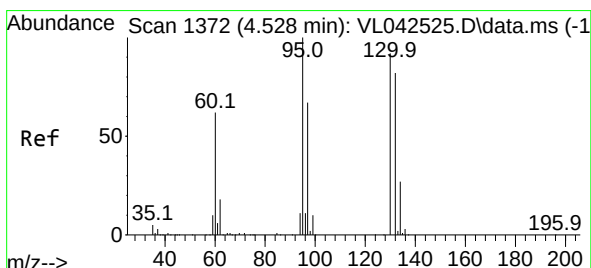
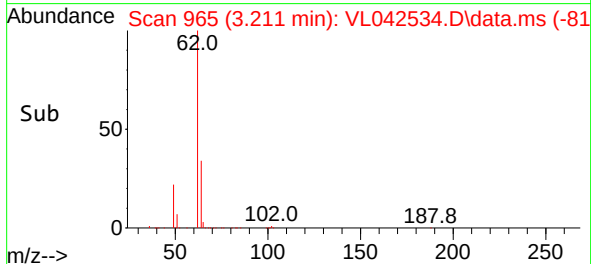
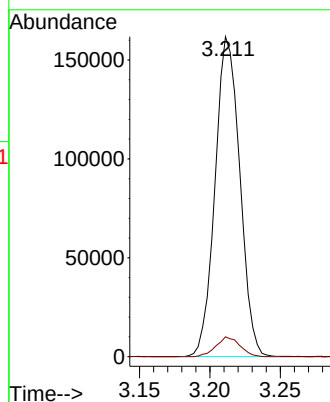
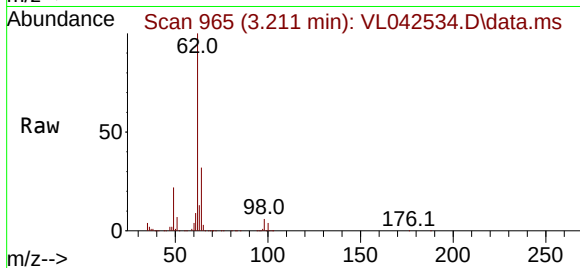
ICVVL051225

Tgt Ion: 62 Resp: 197759

Ion Ratio Lower Upper

62 100

98 6.0 5.0 7.4



#38

Trichloroethene

Concen: 10.461 ppbv

RT: 4.541 min Scan# 1376

Delta R.T. 0.013 min

Lab File: VL042534.D

Acq: 12 May 2025 16:10

Tgt Ion:130 Resp: 124443

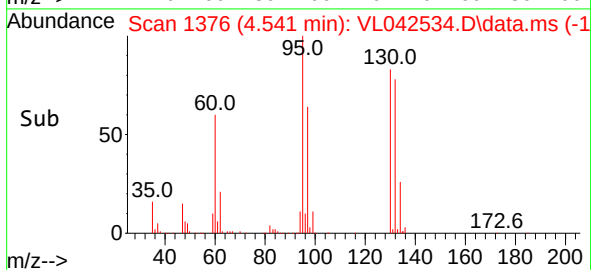
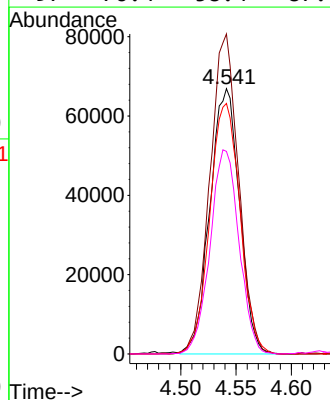
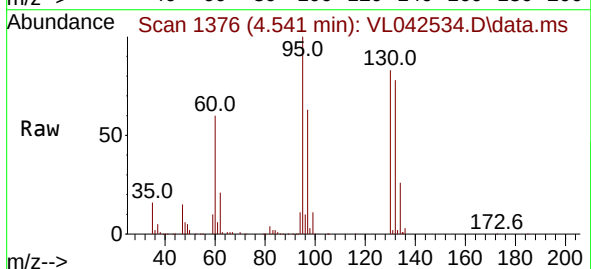
Ion Ratio Lower Upper

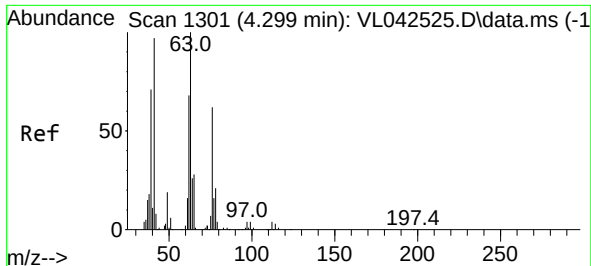
130 100

95 120.7 87.0 130.4

132 94.5 71.1 106.7

97 76.4 58.4 87.6





#39

1,2-Dichloropropane

Concen: 10.381 ppbv

RT: 4.308 min Scan# 11

Delta R.T. 0.010 min

Lab File: VL042534.D

Acq: 12 May 2025 16:10

Instrument :

MSVOA_L

ClientSampleId :

ICVVL051225

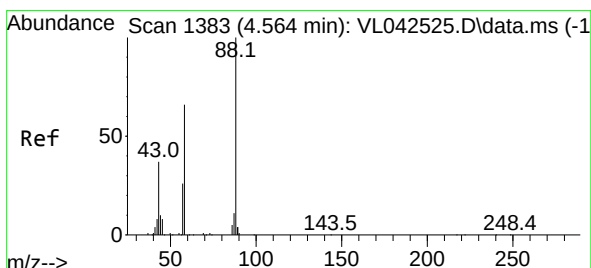
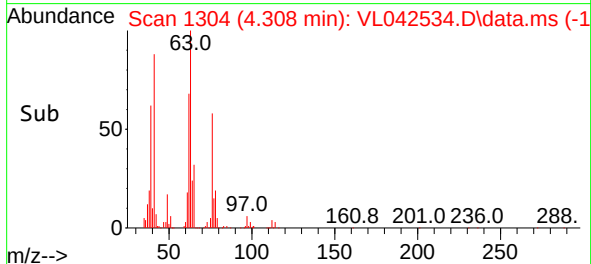
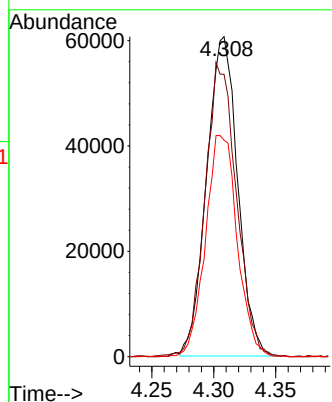
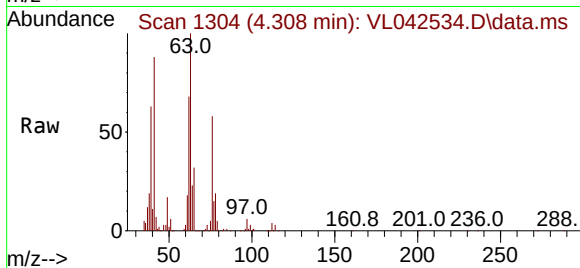
Tgt Ion: 63 Resp: 105794

Ion Ratio Lower Upper

63 100

41 88.2 77.5 116.3

62 67.4 54.6 82.0



#40

1,4-Dioxane

Concen: 11.326 ppbv

RT: 4.577 min Scan# 1387

Delta R.T. 0.013 min

Lab File: VL042534.D

Acq: 12 May 2025 16:10

Tgt Ion: 88 Resp: 46856

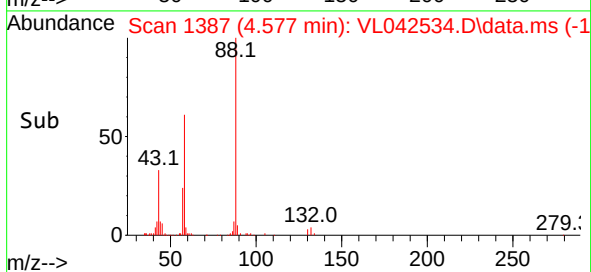
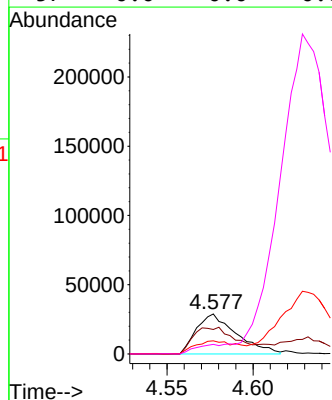
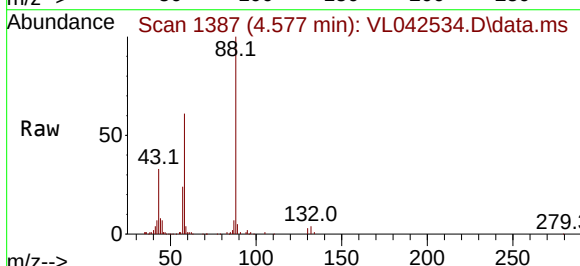
Ion Ratio Lower Upper

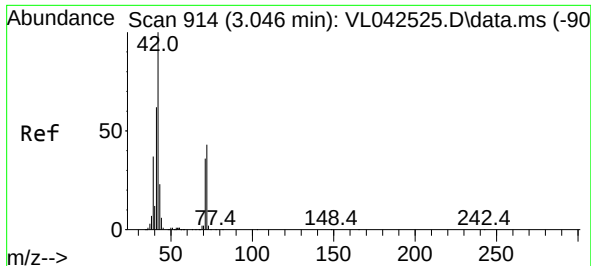
88 100

58 75.2 58.2 87.2

43 35.2 27.9 41.9

57 0.0 0.0 0.0

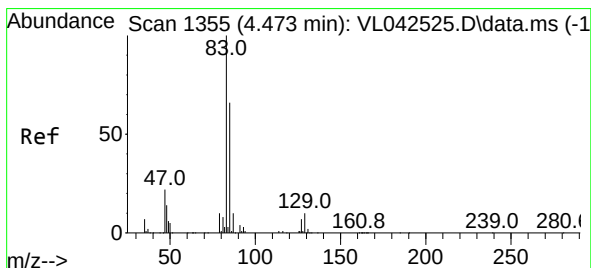
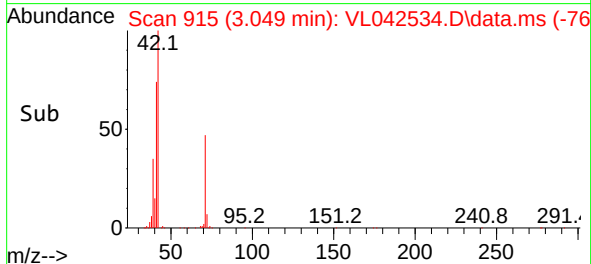
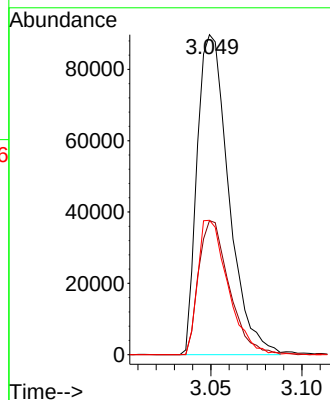
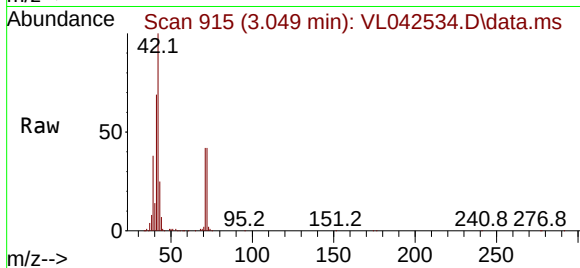




#41
Tetrahydrofuran
Concen: 12.288 ppbv
RT: 3.049 min Scan# 914
Delta R.T. 0.003 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

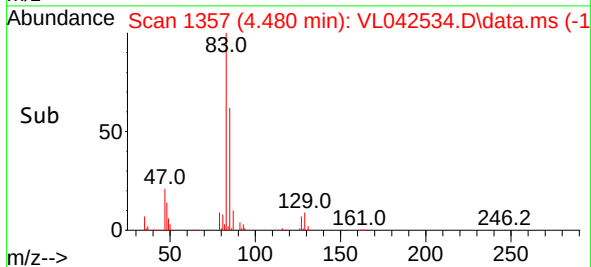
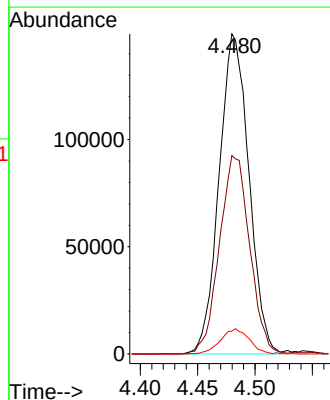
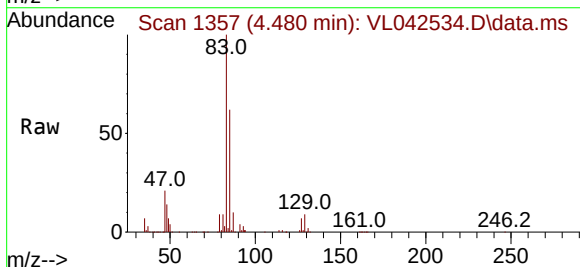
Instrument :
MSVOA_L
ClientSampleId :
ICVVL051225

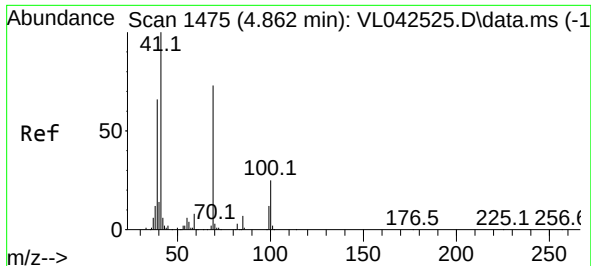
Tgt Ion: 42 Resp: 108235
Ion Ratio Lower Upper
42 100
72 40.9 32.7 49.1
71 40.3 30.4 45.6



#42
Bromodichloromethane
Concen: 10.344 ppbv
RT: 4.480 min Scan# 1357
Delta R.T. 0.006 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

Tgt Ion: 83 Resp: 269411
Ion Ratio Lower Upper
83 100
85 62.0 52.6 79.0
127 7.2 6.0 9.0

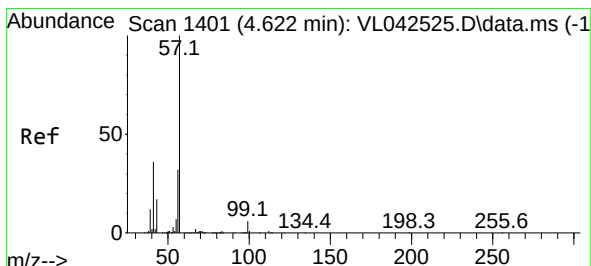
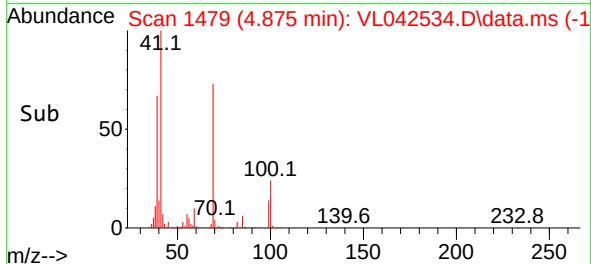
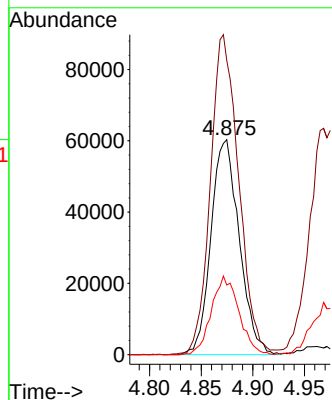
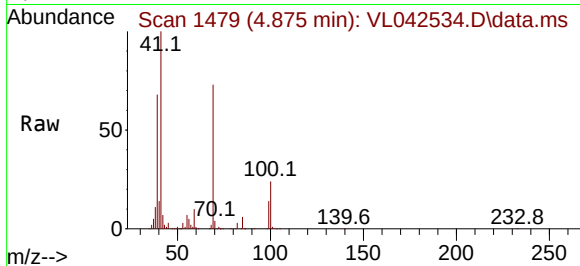




#43
Methyl Methacrylate
Concen: 12.553 ppbv
RT: 4.875 min Scan# 1475
Delta R.T. 0.013 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

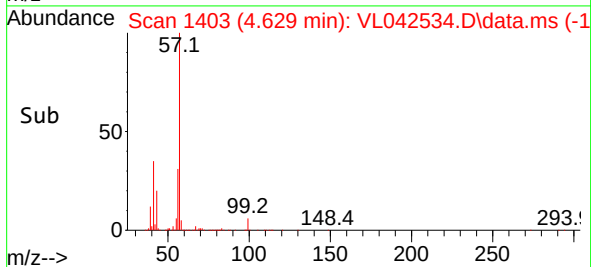
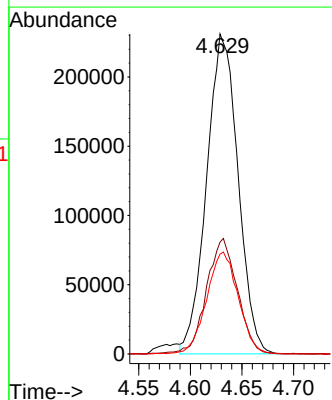
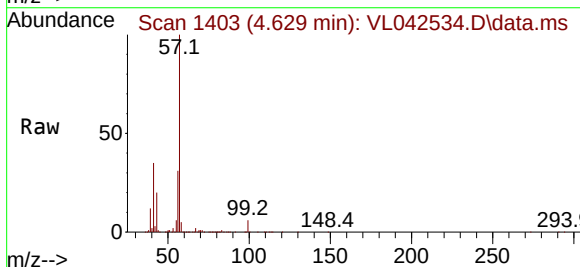
Instrument :
MSVOA_1
ClientSampleId :
ICVVL051225

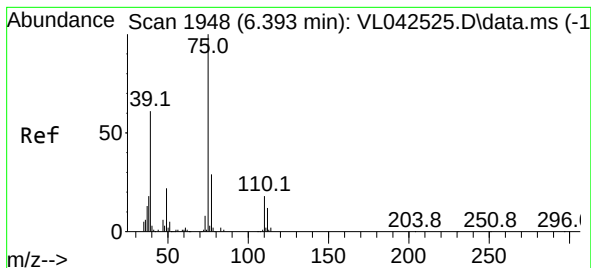
Tgt Ion: 69 Resp: 115023
Ion Ratio Lower Upper
69 100
41 148.6 119.9 179.9
100 35.6 28.4 42.6



#44
2,2,4-Trimethylpentane
Concen: 11.264 ppbv
RT: 4.629 min Scan# 1403
Delta R.T. 0.006 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

Tgt Ion: 57 Resp: 488308
Ion Ratio Lower Upper
57 100
41 35.8 28.3 42.5
56 32.1 25.9 38.9





#45

t-1,3-Dichloropropene

Concen: 12.452 ppbv

RT: 6.406 min Scan# 1948

Delta R.T. 0.013 min

Lab File: VL042534.D

Acq: 12 May 2025 16:10

Instrument :

MSVOA_L

ClientSampleId :

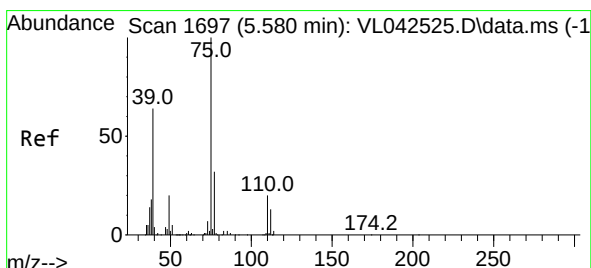
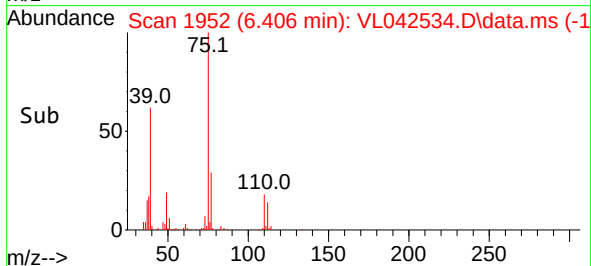
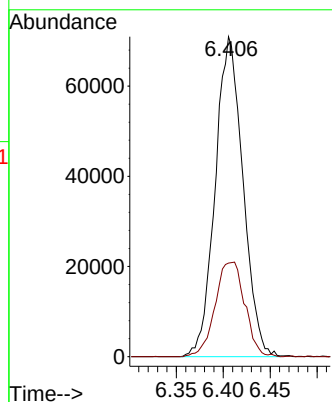
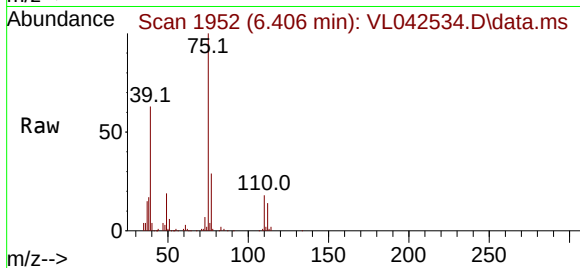
ICVVL051225

Tgt Ion: 75 Resp: 145771

Ion Ratio Lower Upper

75 100

77 29.3 23.3 34.9



#46

cis-1,3-Dichloropropene

Concen: 12.337 ppbv

RT: 5.593 min Scan# 1701

Delta R.T. 0.013 min

Lab File: VL042534.D

Acq: 12 May 2025 16:10

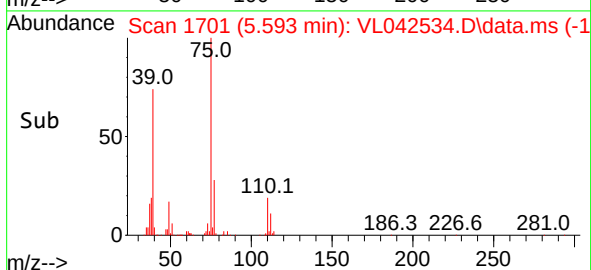
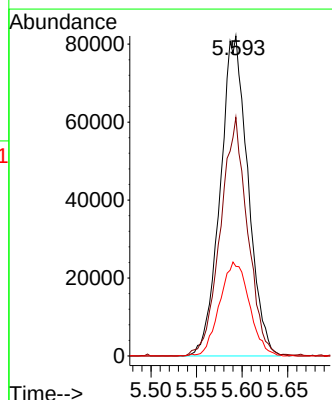
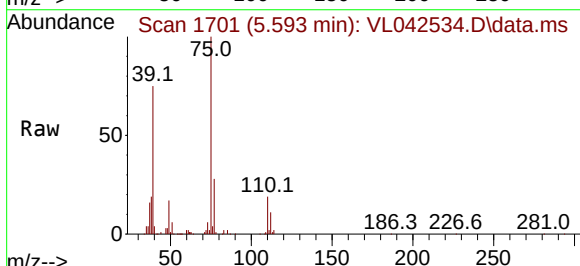
Tgt Ion: 75 Resp: 173741

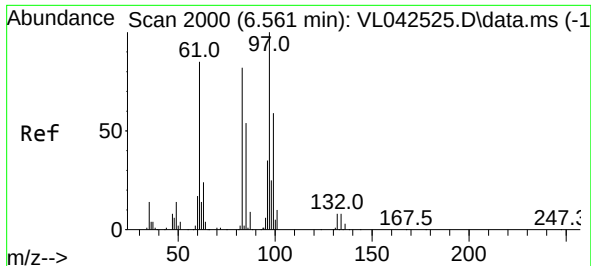
Ion Ratio Lower Upper

75 100

39 74.5 51.2 76.8

77 27.9 25.4 38.0

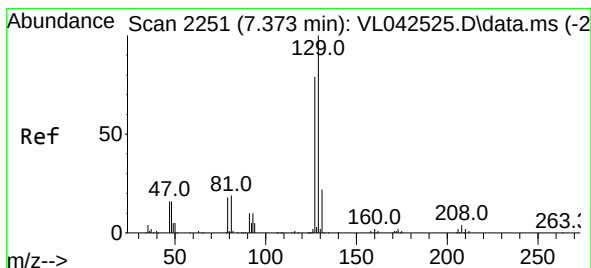
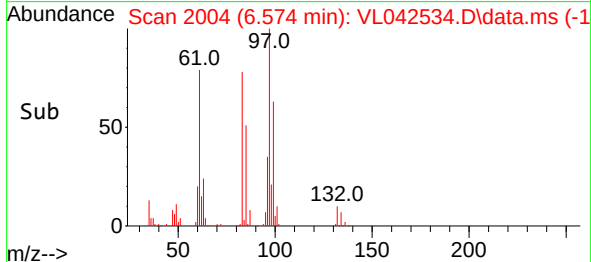
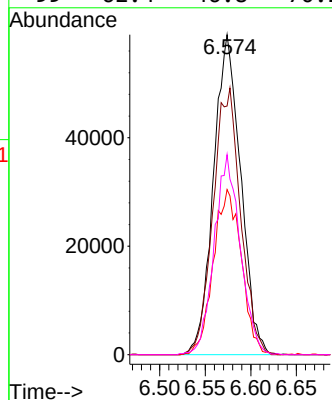
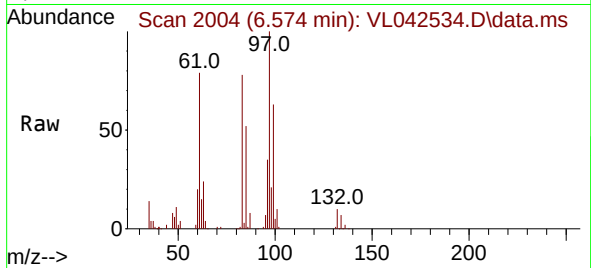




#47
1,1,2-Trichloroethane
Concen: 10.192 ppbv
RT: 6.574 min Scan# 2004
Delta R.T. 0.013 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

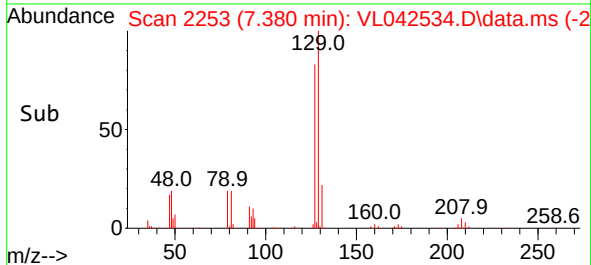
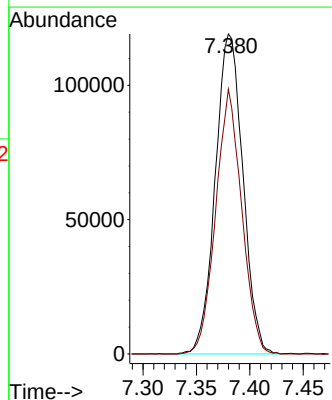
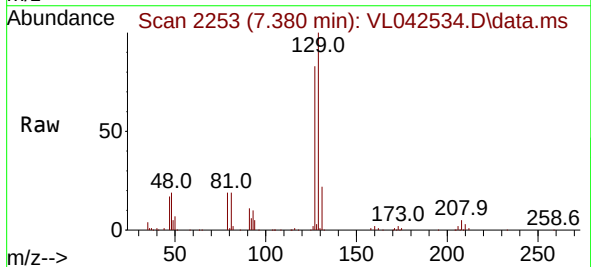
Instrument :
MSVOA_L
ClientSampleId :
ICVVL051225

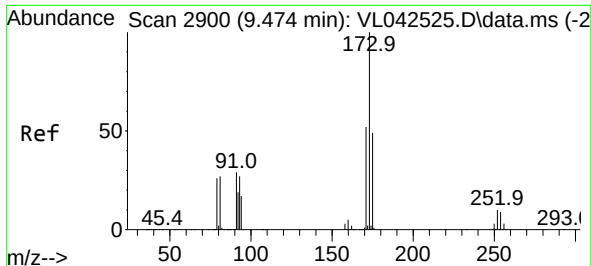
Tgt Ion: 97	Resp: 122312
Ion Ratio	Lower Upper
97 100	
83 77.7	66.0 99.0
85 51.6	42.8 64.2
99 62.4	46.8 70.2



#48
Dibromochloromethane
Concen: 10.680 ppbv
RT: 7.380 min Scan# 2253
Delta R.T. 0.006 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

Tgt Ion:129	Resp: 213991
Ion Ratio	Lower Upper
129 100	
127 78.0	39.6 118.8





#49

Bromoform

Concen: 10.893 ppbv

RT: 9.480 min Scan# 2900

Delta R.T. 0.006 min

Lab File: VL042534.D

Acq: 12 May 2025 16:10

Instrument :

MSVOA_L

ClientSampleId :

ICVVL051225

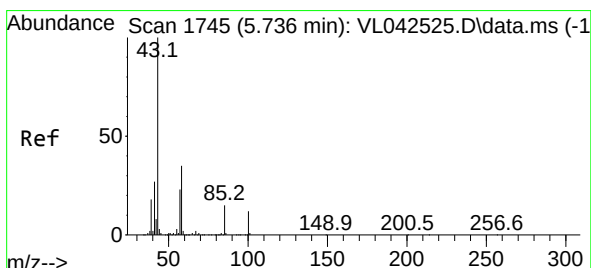
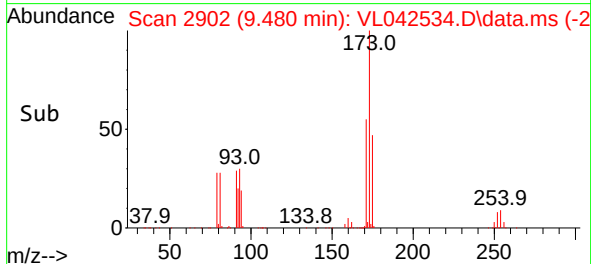
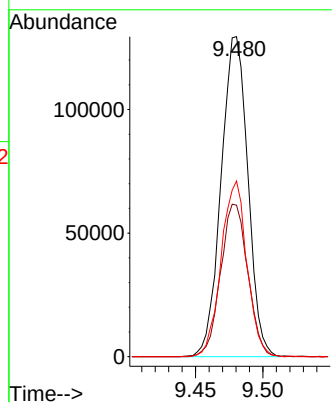
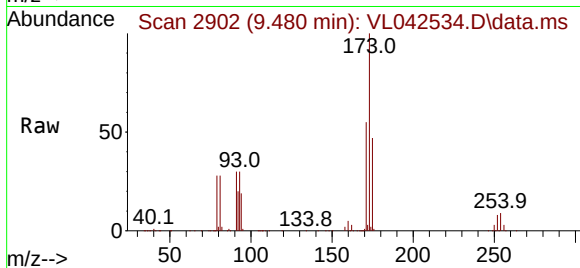
Tgt Ion:173 Resp: 179114

Ion Ratio Lower Upper

173 100

175 48.3 39.1 58.7

171 52.8 41.8 62.8



#50

4-Methyl-2-Pentanone

Concen: 11.865 ppbv

RT: 5.742 min Scan# 1747

Delta R.T. 0.006 min

Lab File: VL042534.D

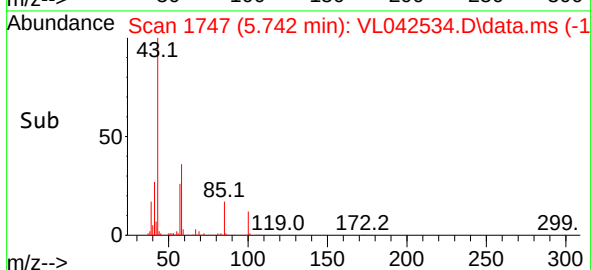
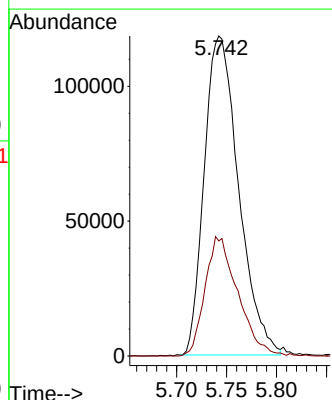
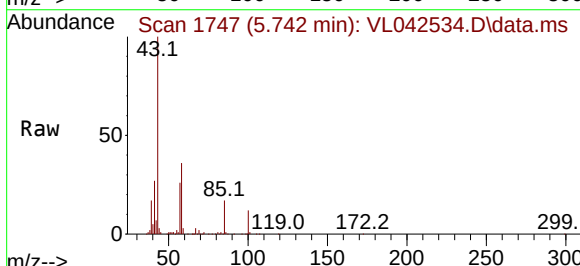
Acq: 12 May 2025 16:10

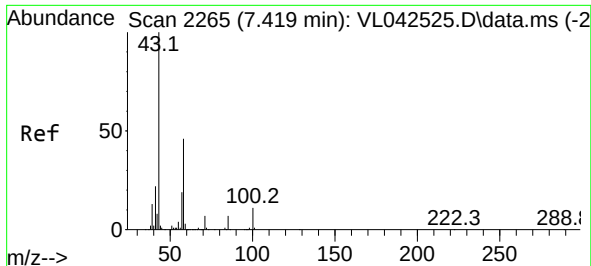
Tgt Ion: 43 Resp: 283584

Ion Ratio Lower Upper

43 100

58 35.7 28.6 42.8

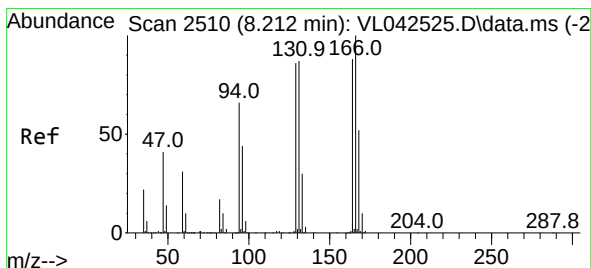
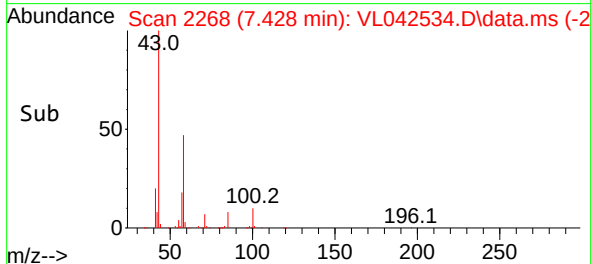
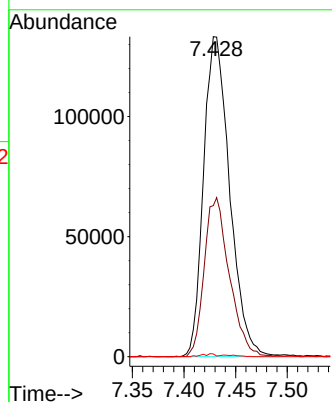
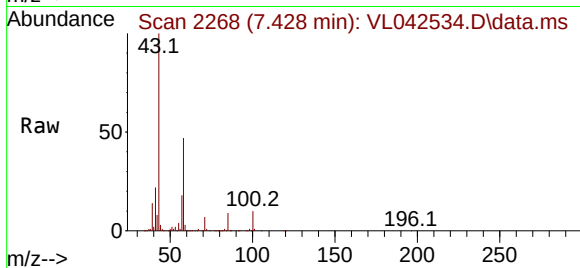




#51
2-Hexanone
Concen: 13.181 ppbv
RT: 7.428 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

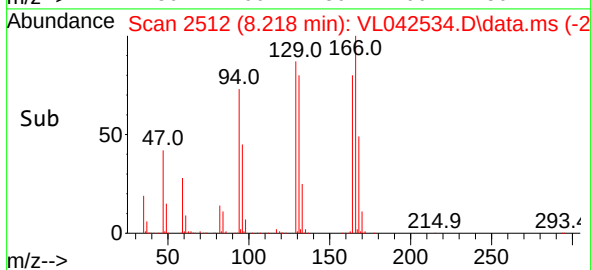
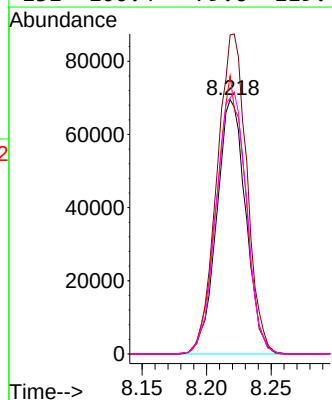
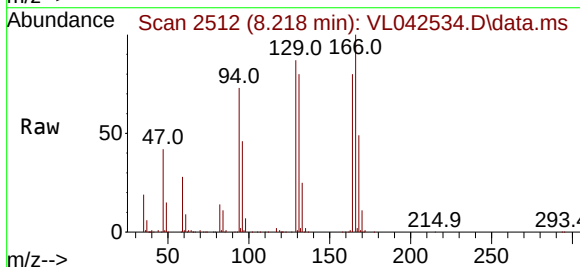
Instrument :
MSVOA_L
ClientSampleId :
ICVVL051225

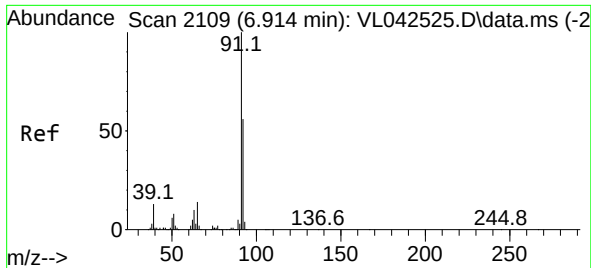
Tgt Ion: 43 Resp: 234324
Ion Ratio Lower Upper
43 100
58 48.0 37.5 56.3
98 0.8 0.9 1.3#



#52
Tetrachloroethene
Concen: 10.391 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. 0.006 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

Tgt Ion:164 Resp: 108772
Ion Ratio Lower Upper
164 100
166 125.4 91.3 136.9
129 109.3 78.9 118.3
131 100.4 79.6 119.4

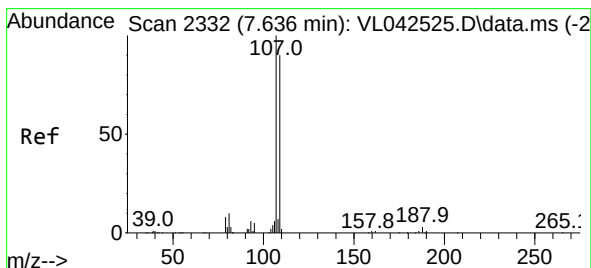
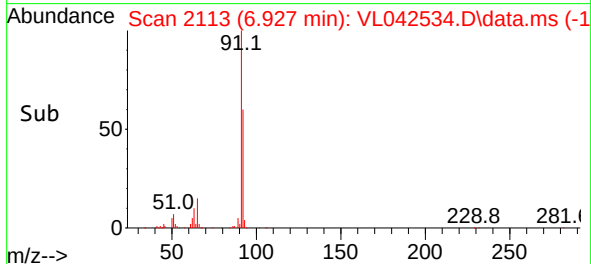
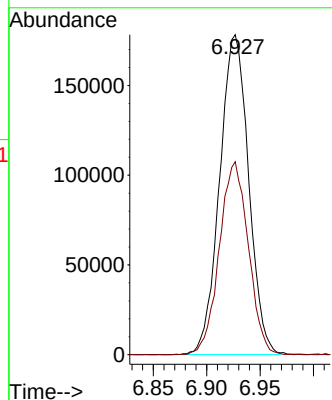
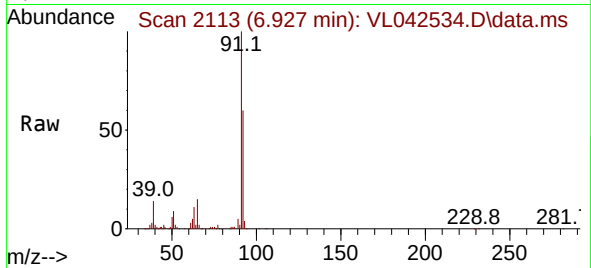




#53
Toluene
Concen: 12.519 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. 0.013 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

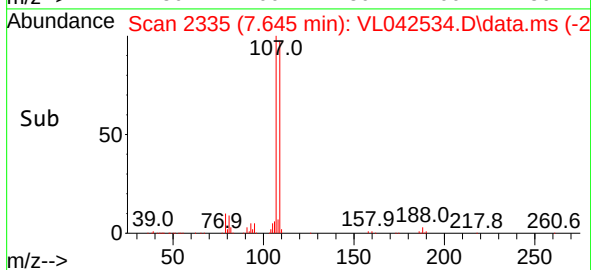
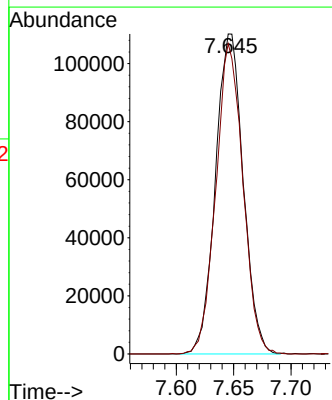
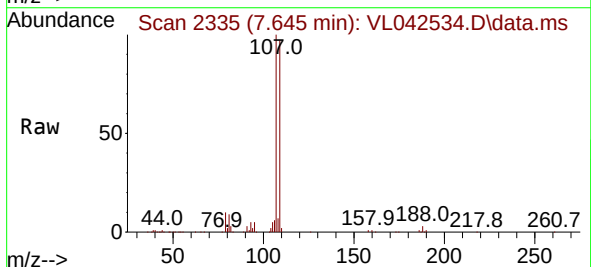
Instrument :
MSVOA_L
ClientSampleId :
ICVVL051225

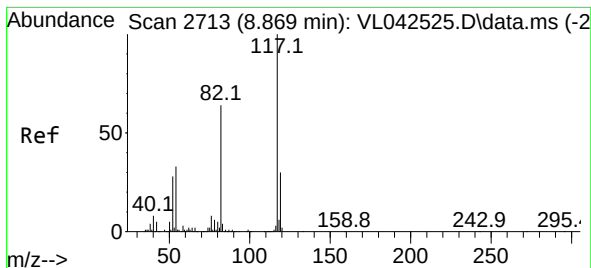
Tgt Ion: 91 Resp: 336112
Ion Ratio Lower Upper
91 100
92 60.5 47.8 71.6



#54
1,2-Dibromoethane
Concen: 10.565 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. 0.010 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

Tgt Ion: 107 Resp: 185157
Ion Ratio Lower Upper
107 100
109 96.8 72.2 108.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.875 min Scan# 2715

Delta R.T. 0.006 min

Lab File: VL042534.D

Acq: 12 May 2025 16:10

Instrument :

MSVOA_L

ClientSampleId :

ICVVL051225

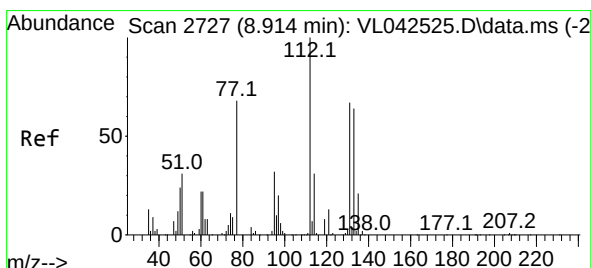
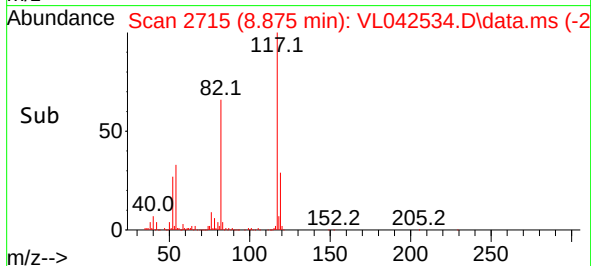
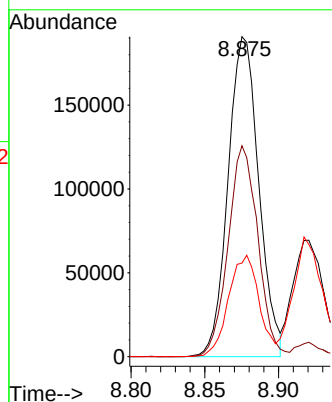
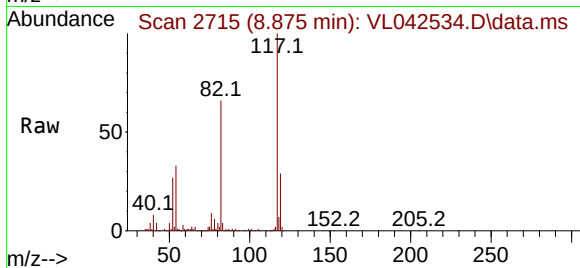
Tgt Ion:117 Resp: 276426

Ion Ratio Lower Upper

117 100

82 67.5 55.0 82.4

119 31.6 25.8 38.6



#56

1,1,1,2-Tetrachloroethane

Concen: 9.389 ppbv

RT: 8.920 min Scan# 2729

Delta R.T. 0.006 min

Lab File: VL042534.D

Acq: 12 May 2025 16:10

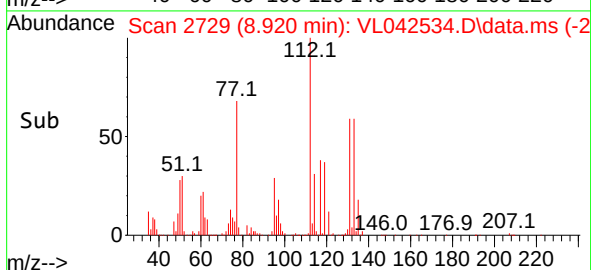
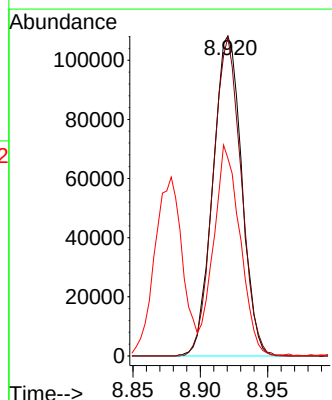
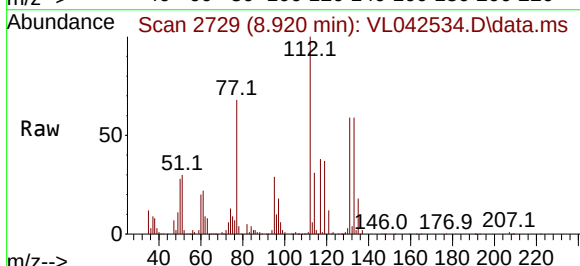
Tgt Ion:131 Resp: 160912

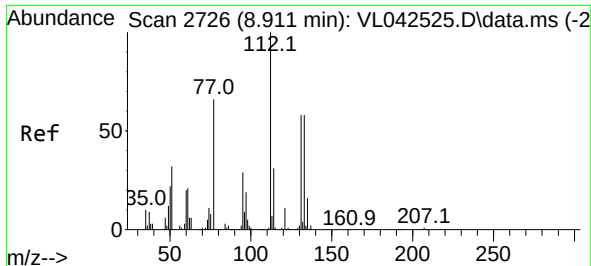
Ion Ratio Lower Upper

131 100

133 97.4 77.4 116.2

119 61.2 49.0 73.4

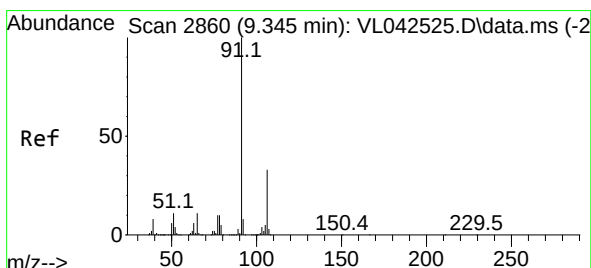
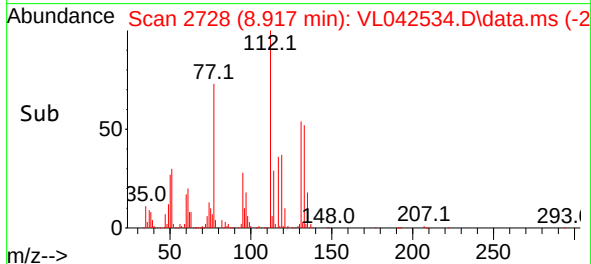
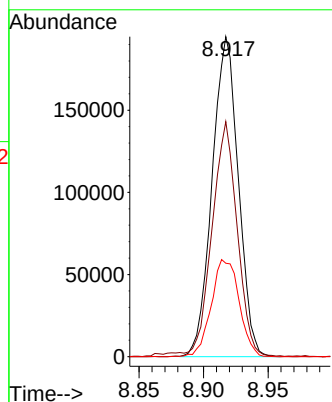
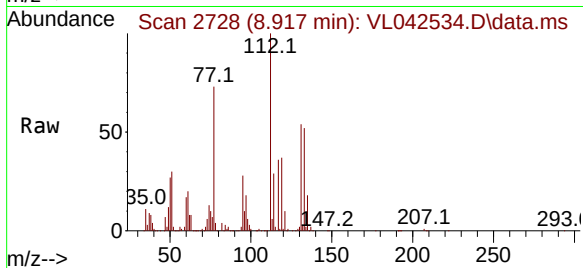




#57
Chlorobenzene
Concen: 9.890 ppbv
RT: 8.917 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

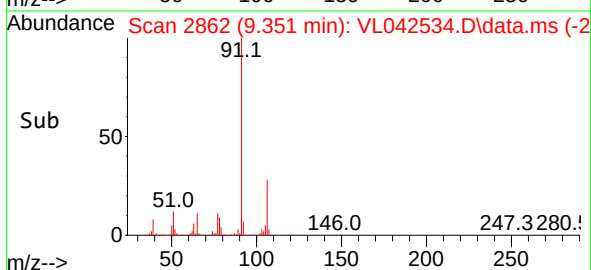
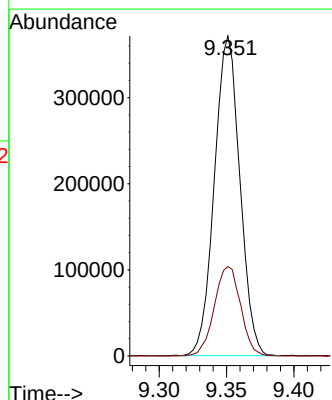
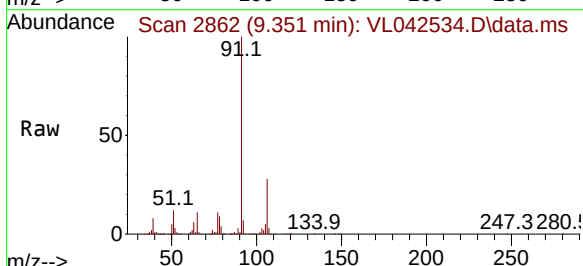
Instrument :
MSVOA_L
ClientSampleId :
ICVVL051225

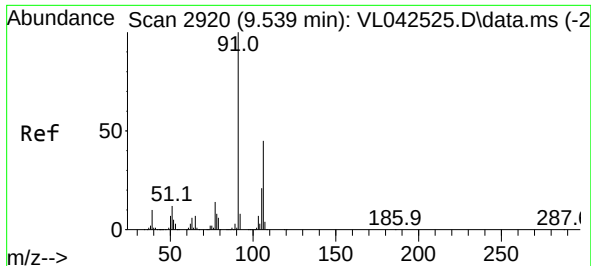
Tgt Ion:112 Resp: 274500
Ion Ratio Lower Upper
112 100
77 73.1 53.6 80.4
114 29.2 28.2 34.4



#58
Ethyl Benzene
Concen: 12.941 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. 0.006 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

Tgt Ion: 91 Resp: 487590
Ion Ratio Lower Upper
91 100
106 28.0 26.0 39.0





#59

m/p-Xylene

Concen: 12.233 ppbv

RT: 9.545 min Scan# 29

Delta R.T. 0.006 min

Lab File: VL042534.D

Acq: 12 May 2025 16:10

Instrument :

MSVOA_L

ClientSampleId :

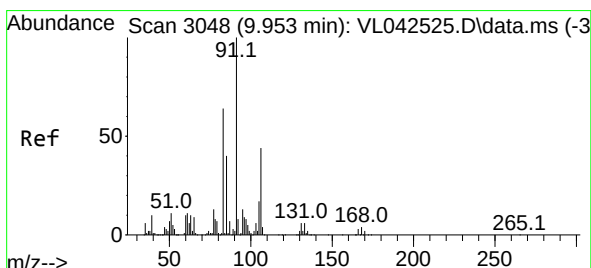
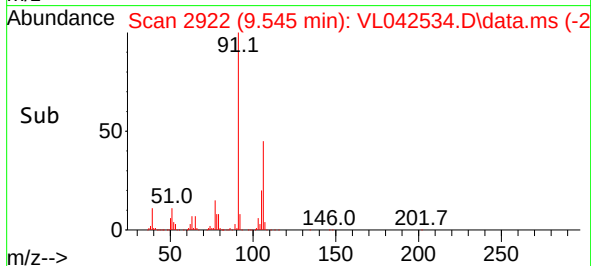
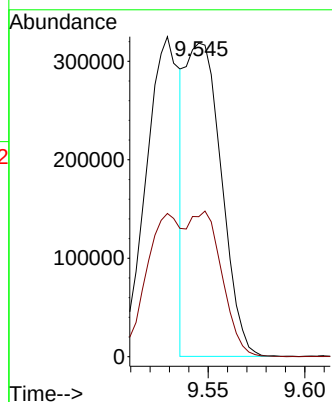
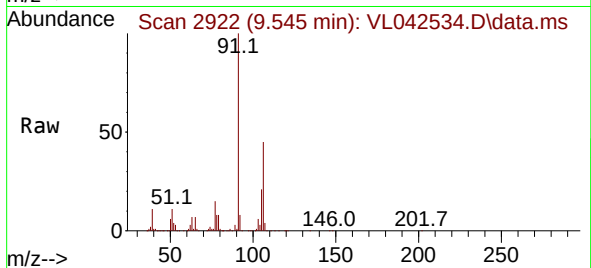
ICVVL051225

Tgt Ion: 91 Resp: 409341

Ion Ratio Lower Upper

91 100

106 89.4 0.0 0.0#



#60

o-Xylene

Concen: 12.495 ppbv

RT: 9.959 min Scan# 3050

Delta R.T. 0.006 min

Lab File: VL042534.D

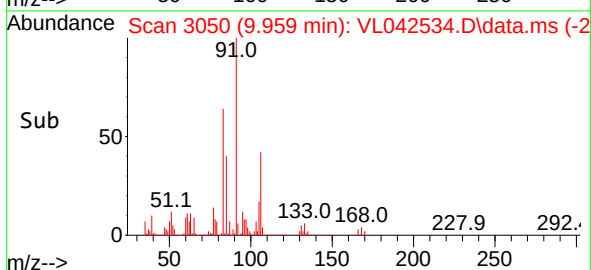
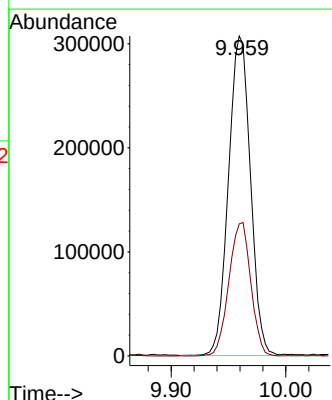
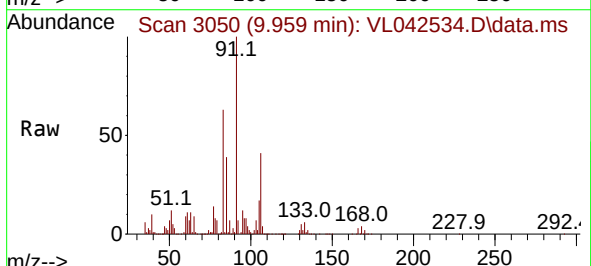
Acq: 12 May 2025 16:10

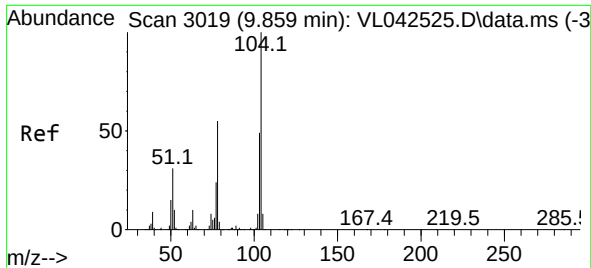
Tgt Ion: 91 Resp: 408333

Ion Ratio Lower Upper

91 100

106 41.7 21.6 64.6

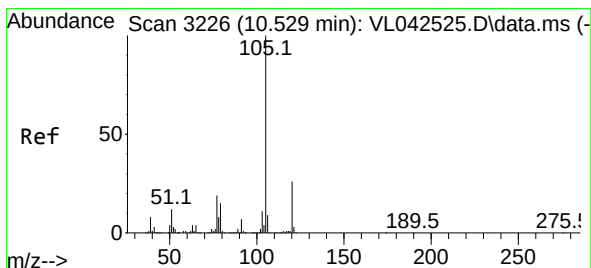
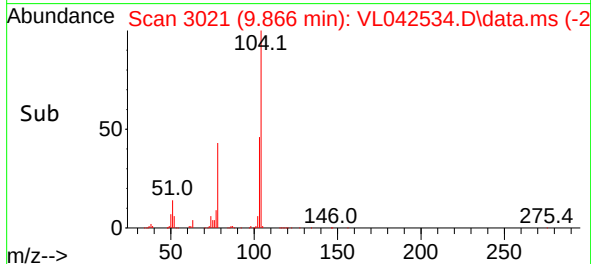
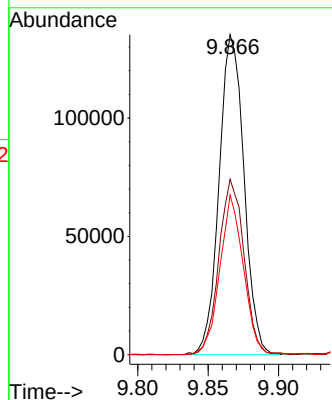
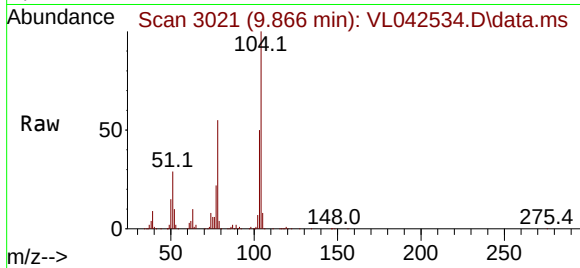




#61
Styrene
Concen: 13.737 ppbv
RT: 9.866 min Scan# 3019
Delta R.T. 0.006 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

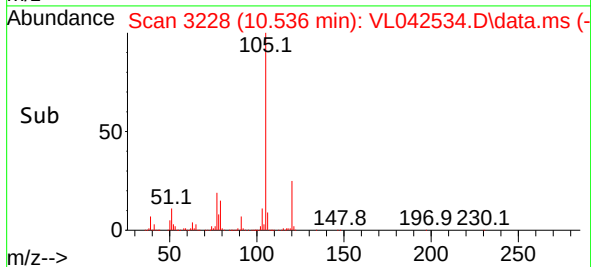
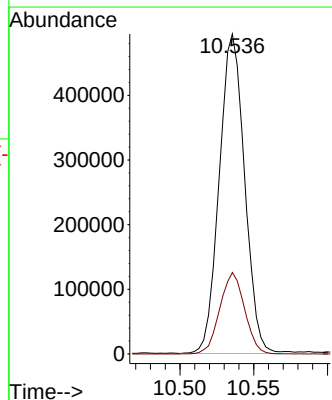
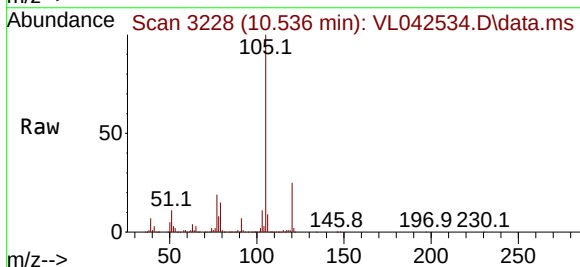
Instrument :
MSVOA_1
ClientSampleId :
ICVVL051225

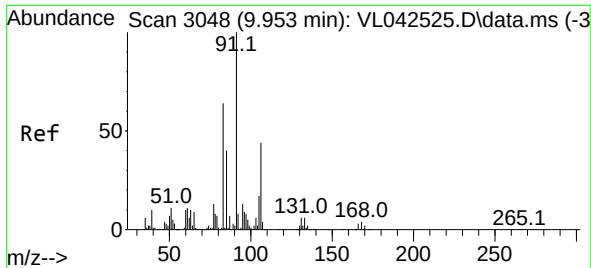
Tgt Ion:104 Resp: 166262
Ion Ratio Lower Upper
104 100
78 55.6 44.7 67.1
103 47.5 38.6 58.0



#62
Isopropylbenzene
Concen: 11.978 ppbv
RT: 10.536 min Scan# 3228
Delta R.T. 0.006 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

Tgt Ion:105 Resp: 589527
Ion Ratio Lower Upper
105 100
120 24.9 20.1 30.1

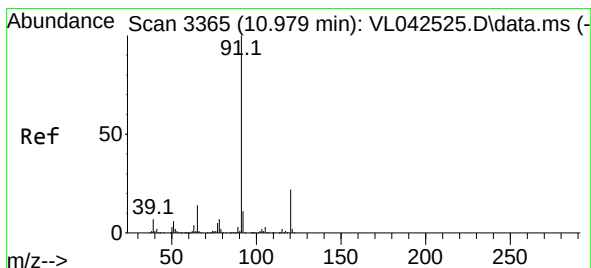
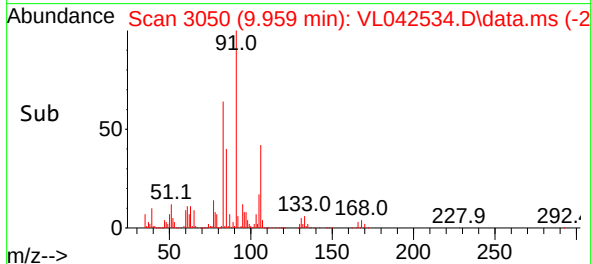
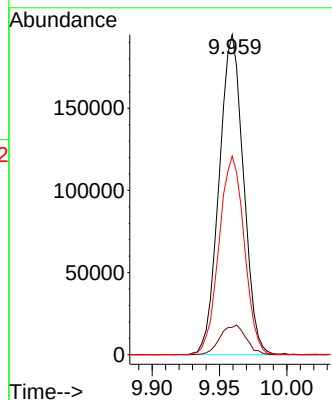
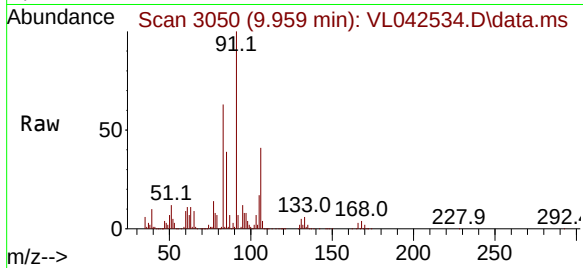




#63
1,1,2,2-Tetrachloroethane
Concen: 9.228 ppbv
RT: 9.959 min Scan# 3048
Delta R.T. 0.006 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

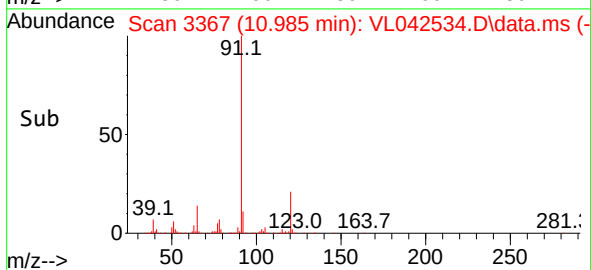
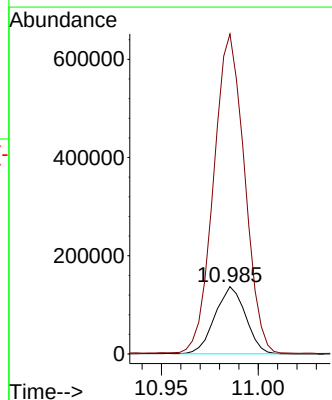
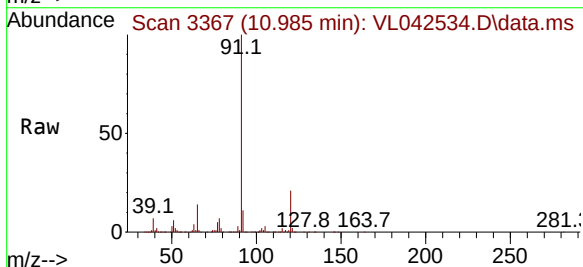
Instrument :
MSVOA_L
ClientSampleId :
ICVVL051225

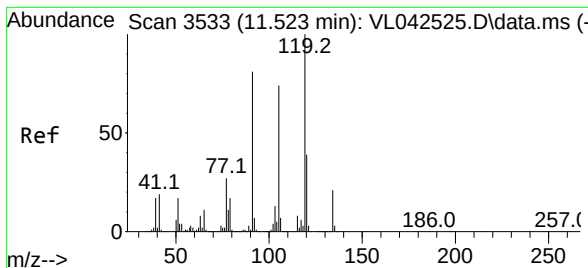
Tgt Ion: 83 Resp: 244748
Ion Ratio Lower Upper
83 100
131 9.9 4.9 14.7
85 64.4 32.3 96.8



#64
n-propylbenzene
Concen: 11.993 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. 0.006 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

Tgt Ion: 120 Resp: 149858
Ion Ratio Lower Upper
120 100
91 484.0 377.7 566.5

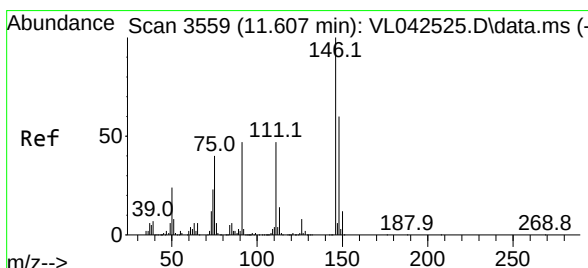
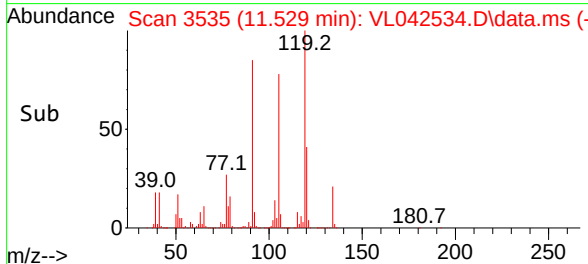
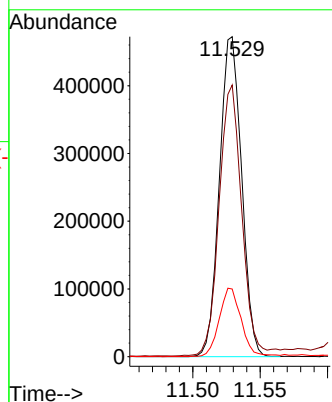
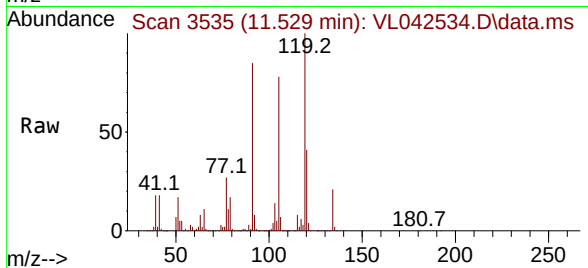




#65
tert-Butylbenzene
Concen: 11.963 ppbv
RT: 11.529 min Scan# 3533
Delta R.T. 0.006 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

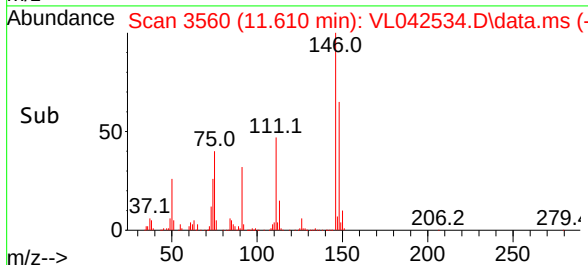
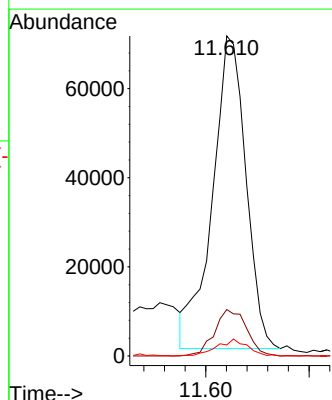
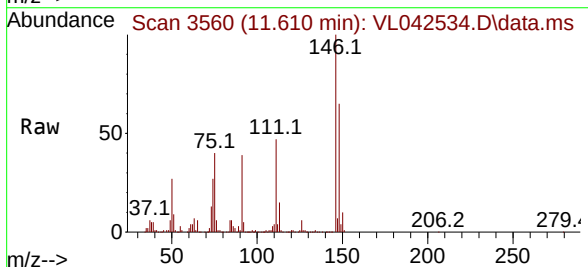
Instrument :
MSVOA_1
ClientSampleId :
ICVVL051225

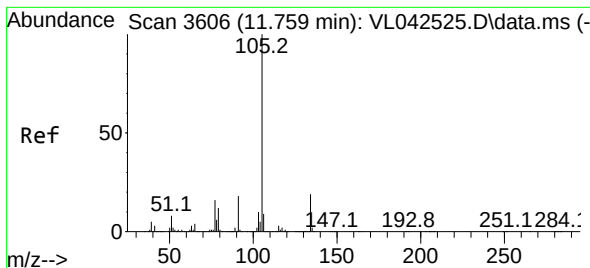
Tgt Ion:119 Resp: 540642
Ion Ratio Lower Upper
119 100
91 87.6 66.6 99.8
134 21.3 16.3 24.5



#66
Benzyl Chloride
Concen: 13.151 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. 0.003 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

Tgt Ion: 91 Resp: 78976
Ion Ratio Lower Upper
91 100
126 14.4 13.7 20.5
128 5.1 4.2 6.2





#67

sec-Butylbenzene

Concen: 11.283 ppbv

RT: 11.765 min Scan# 3608

Delta R.T. 0.006 min

Lab File: VL042534.D

Acq: 12 May 2025 16:10

Instrument :

MSVOA_L

ClientSampleId :

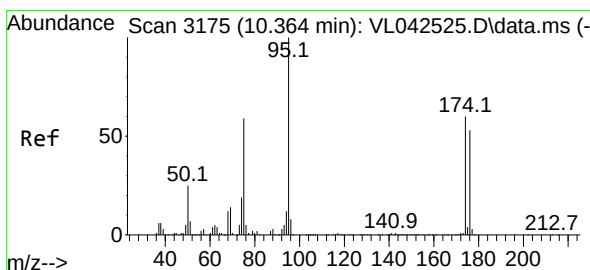
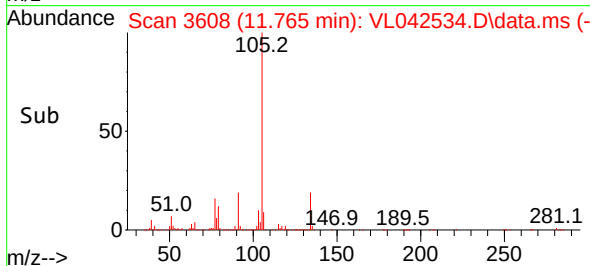
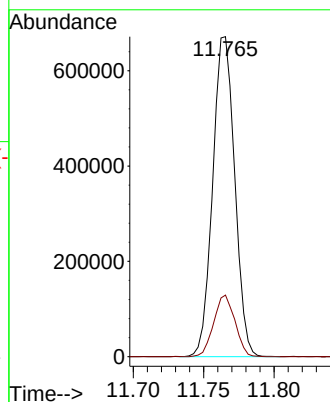
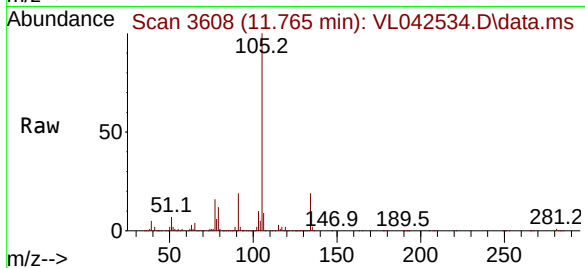
ICVVL051225

Tgt Ion:105 Resp: 731113

Ion Ratio Lower Upper

105 100

134 18.7 14.9 22.3



#68

1-Bromo-4-Fluorobenzene

Concen: 9.861 ppbv

RT: 10.370 min Scan# 3177

Delta R.T. 0.006 min

Lab File: VL042534.D

Acq: 12 May 2025 16:10

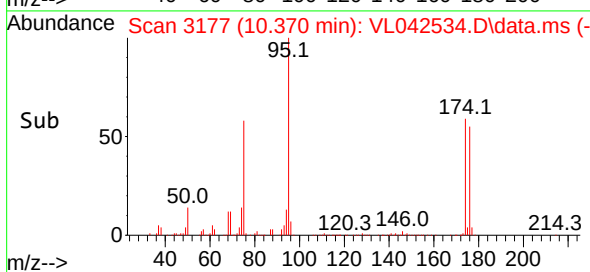
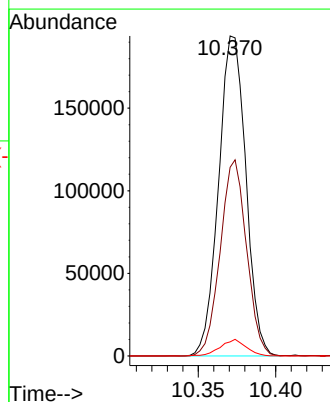
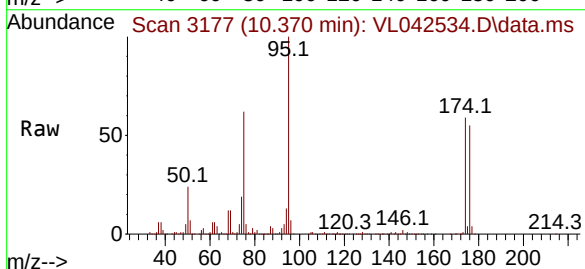
Tgt Ion: 95 Resp: 237168

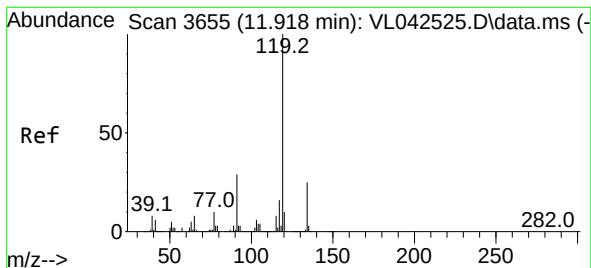
Ion Ratio Lower Upper

95 100

174 59.3 48.0 72.0

175 4.9 3.5 5.3

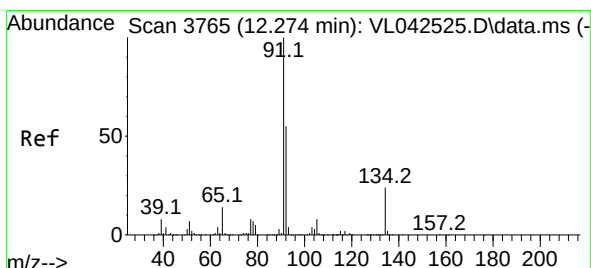
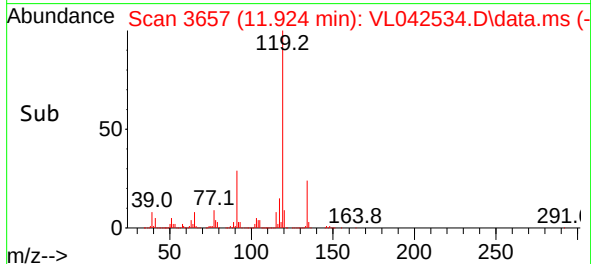
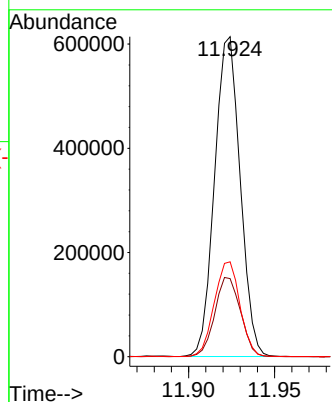
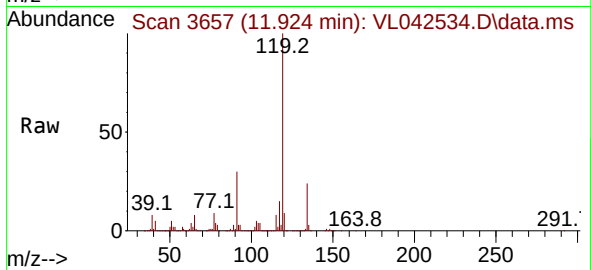




#69
 p-Isopropyltoluene
 Concen: 11.921 ppbv
 RT: 11.924 min Scan# 3657
 Delta R.T. 0.006 min
 Lab File: VL042534.D
 Acq: 12 May 2025 16:10

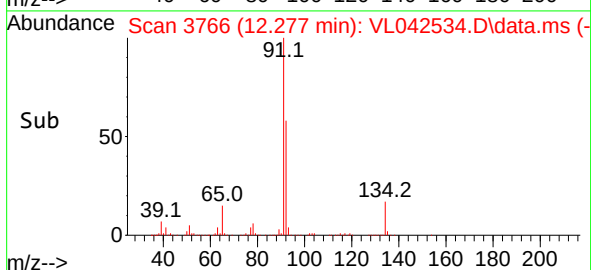
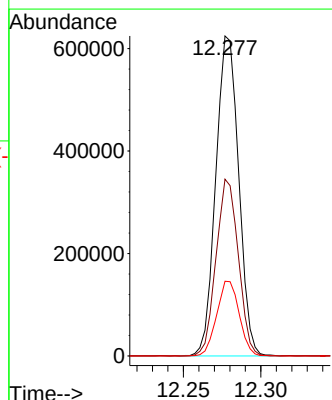
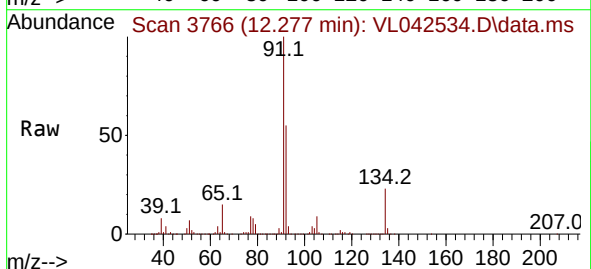
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL051225

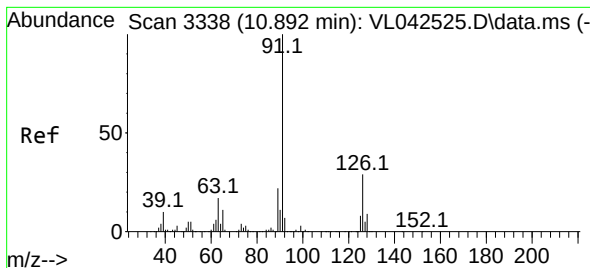
Tgt Ion: 119 Resp: 635040
 Ion Ratio Lower Upper
 119 100
 134 25.1 19.8 29.6
 91 29.9 23.6 35.4



#70
 n-Butylbenzene
 Concen: 12.192 ppbv
 RT: 12.277 min Scan# 3766
 Delta R.T. 0.003 min
 Lab File: VL042534.D
 Acq: 12 May 2025 16:10

Tgt Ion: 91 Resp: 641756
 Ion Ratio Lower Upper
 91 100
 92 53.8 43.7 65.5
 134 23.0 18.9 28.3





#71

2-Chlorotoluene

Concen: 12.354 ppbv

RT: 10.898 min Scan# 31

Delta R.T. 0.006 min

Lab File: VL042534.D

Acq: 12 May 2025 16:10

Instrument :

MSVOA_L

ClientSampleId :

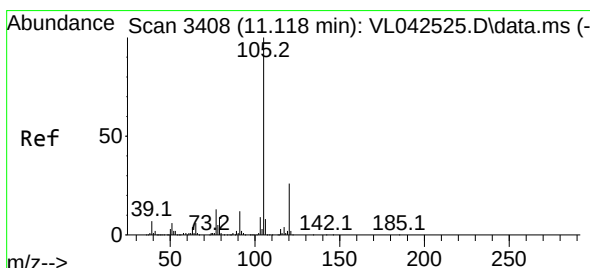
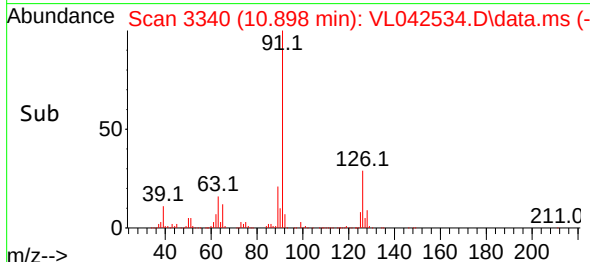
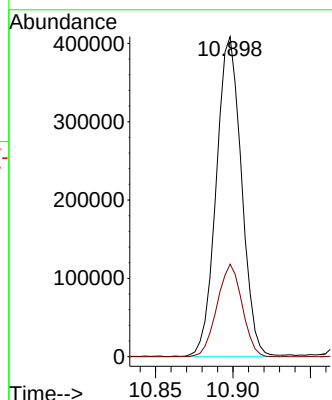
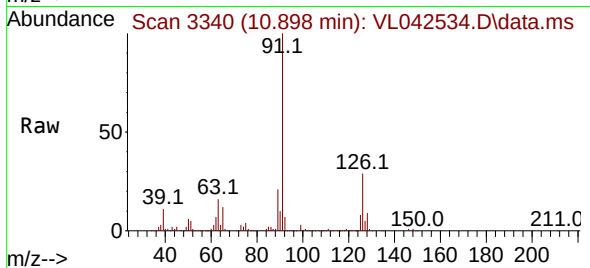
ICVVL051225

Tgt Ion: 91 Resp: 460416

Ion Ratio Lower Upper

91 100

126 28.8 11.4 45.6



#72

4-Ethyltoluene

Concen: 12.435 ppbv

RT: 11.121 min Scan# 3409

Delta R.T. 0.003 min

Lab File: VL042534.D

Acq: 12 May 2025 16:10

Tgt Ion: 105 Resp: 504066

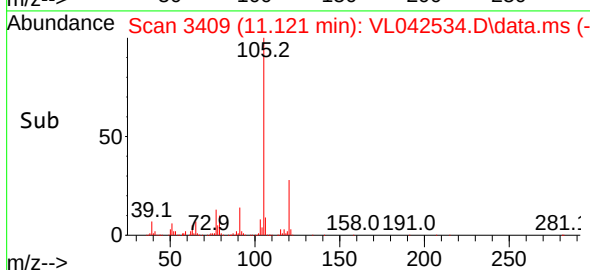
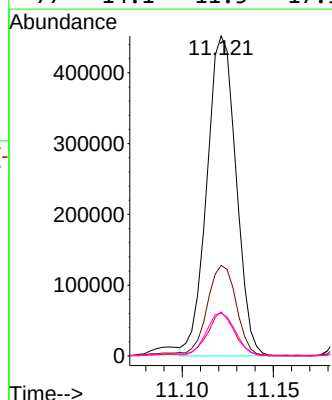
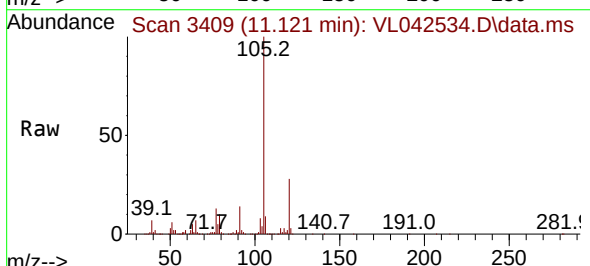
Ion Ratio Lower Upper

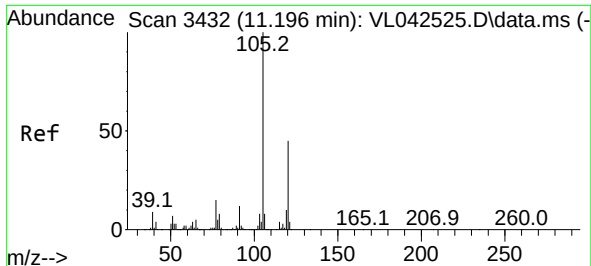
105 100

120 29.2 22.9 34.3

91 12.9 10.9 16.3

77 14.1 11.5 17.3

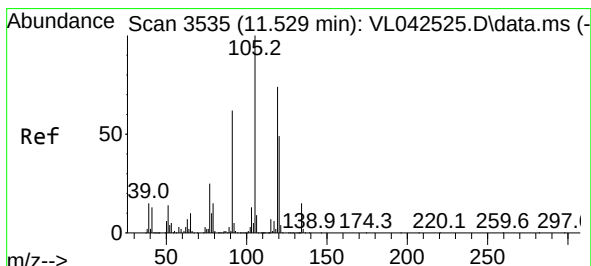
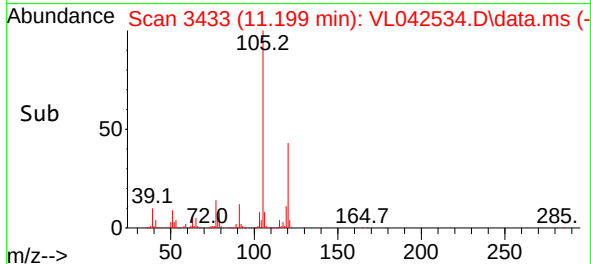
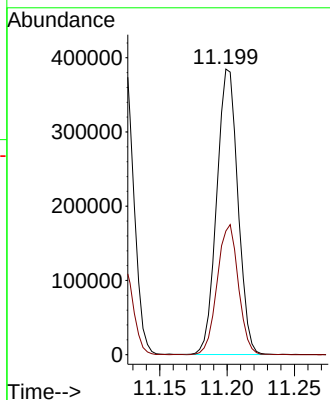
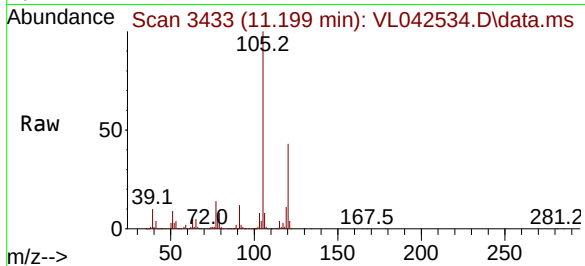




#73
1,3,5-Trimethylbenzene
Concen: 11.906 ppbv
RT: 11.199 min Scan# 3433
Delta R.T. 0.003 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

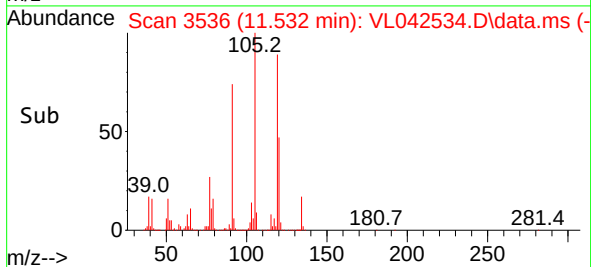
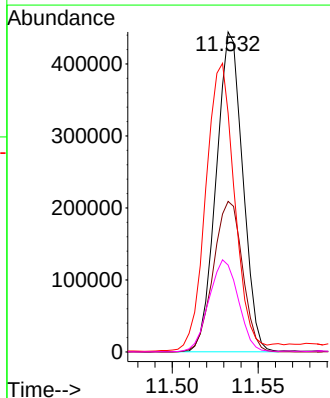
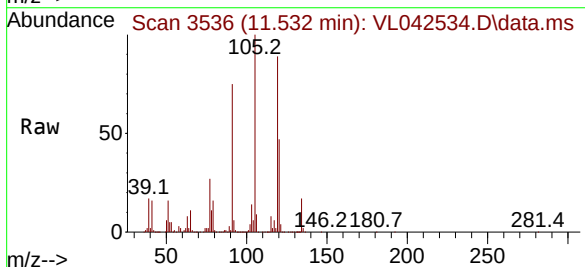
Instrument :
MSVOA_L
ClientSampleId :
ICVVL051225

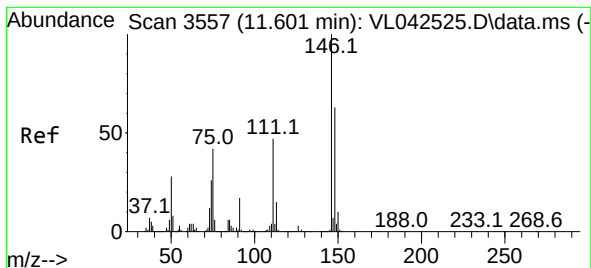
Tgt Ion:105 Resp: 420393
Ion Ratio Lower Upper
105 100
120 43.3 36.0 54.0



#74
1,2,4-Trimethylbenzene
Concen: 10.983 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. 0.003 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

Tgt Ion:105 Resp: 477131
Ion Ratio Lower Upper
105 100
120 47.0 39.0 58.6
91 73.8 49.4 74.2
77 27.0 19.8 29.6





#75

1,3-Dichlorobenzene

Concen: 10.479 ppbv

RT: 11.604 min Scan# 3557

Delta R.T. 0.003 min

Lab File: VL042534.D

Acq: 12 May 2025 16:10

Instrument :

MSVOA_1

ClientSampleId :

ICVVL051225

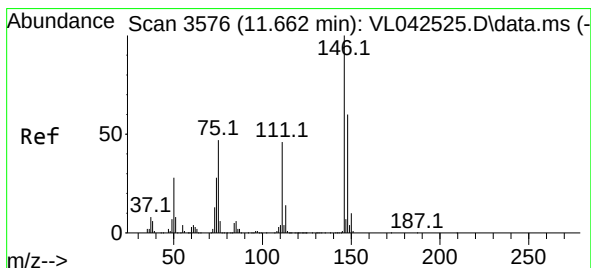
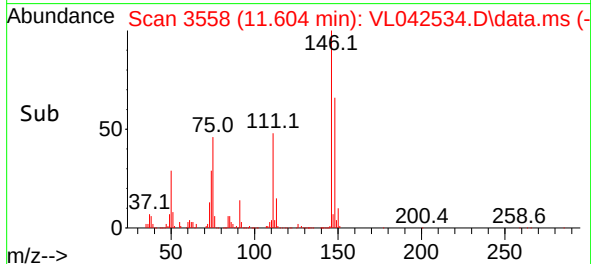
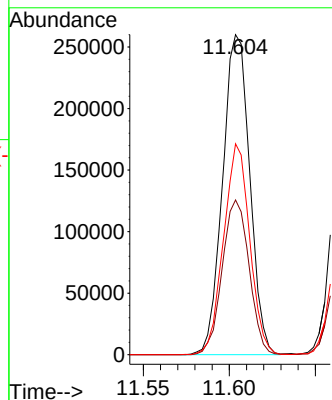
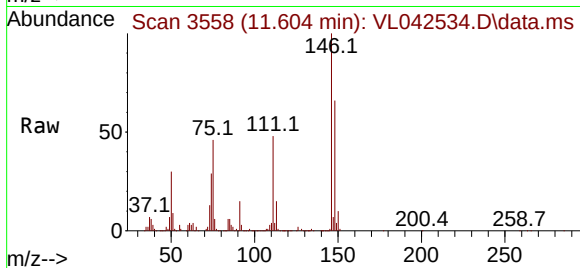
Tgt Ion:146 Resp: 285094

Ion Ratio Lower Upper

146 100

111 47.9 23.6 71.0

148 63.5 31.6 94.8



#76

1,4-Dichlorobenzene

Concen: 10.829 ppbv

RT: 11.668 min Scan# 3578

Delta R.T. 0.006 min

Lab File: VL042534.D

Acq: 12 May 2025 16:10

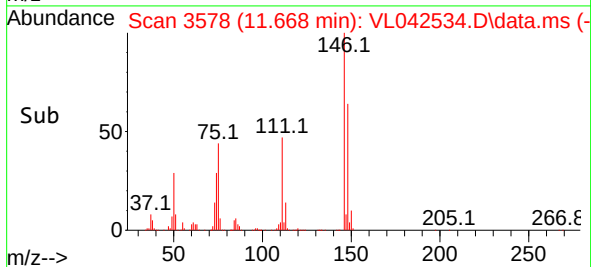
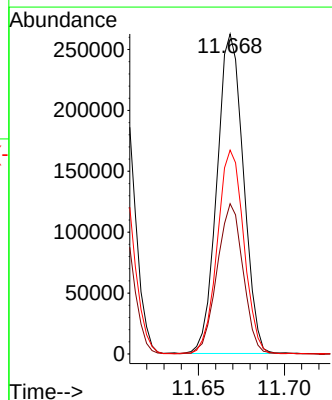
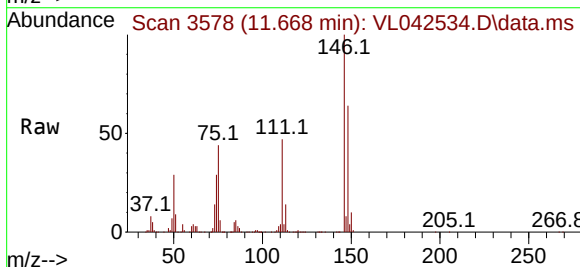
Tgt Ion:146 Resp: 280324

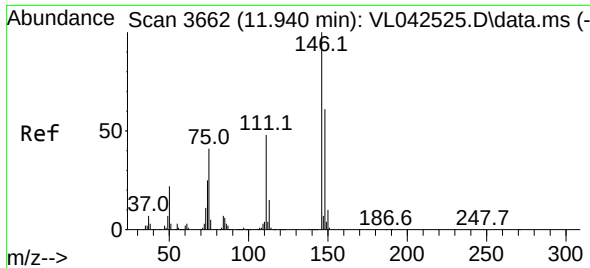
Ion Ratio Lower Upper

146 100

111 46.5 23.4 70.3

148 64.1 31.6 94.7

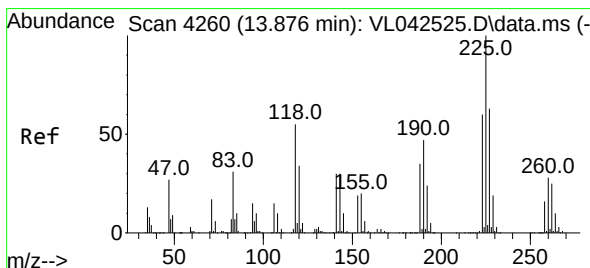
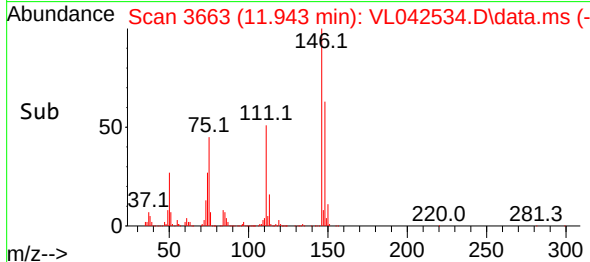
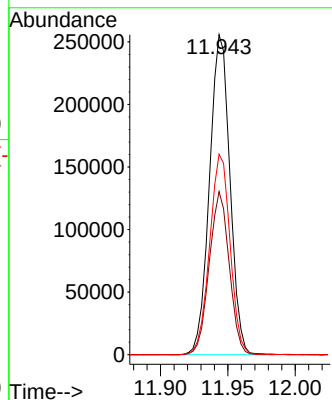
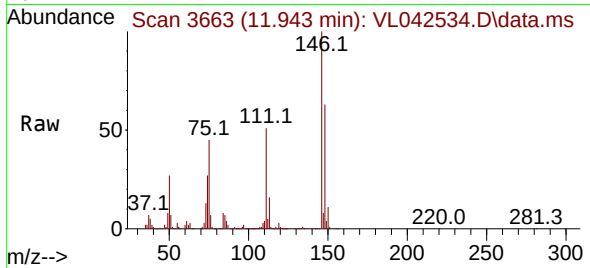




#77
1,2-Dichlorobenzene
Concen: 9.590 ppbv
RT: 11.943 min Scan# 3663
Delta R.T. 0.003 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

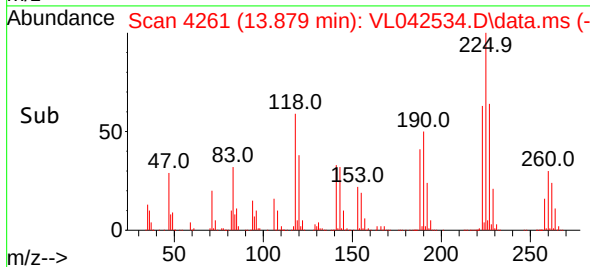
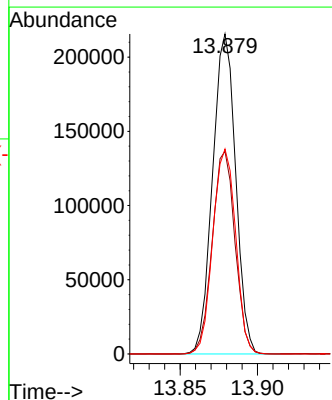
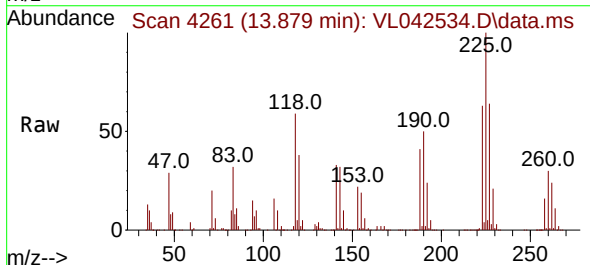
Instrument :
MSVOA_L
ClientSampleId :
ICVVL051225

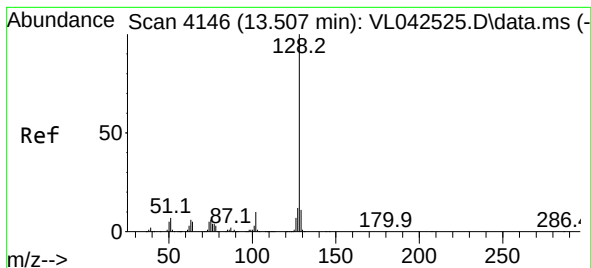
Tgt Ion:146 Resp: 269510
Ion Ratio Lower Upper
146 100
111 49.9 24.9 74.8
148 62.9 31.4 94.2



#78
Hexachloro-1,3-Butadiene
Concen: 9.265 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. 0.003 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

Tgt Ion:225 Resp: 223250
Ion Ratio Lower Upper
225 100
223 62.5 50.8 76.2
227 63.4 50.5 75.7





#79

Naphthalene

Concen: 15.035 ppbv

RT: 13.510 min Scan# 4146

Delta R.T. 0.003 min

Lab File: VL042534.D

Acq: 12 May 2025 16:10

Instrument :

MSVOA_L

ClientSampleId :

ICVVL051225

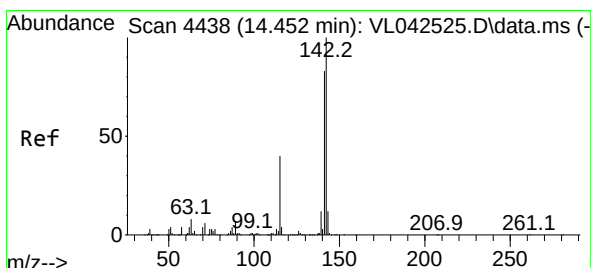
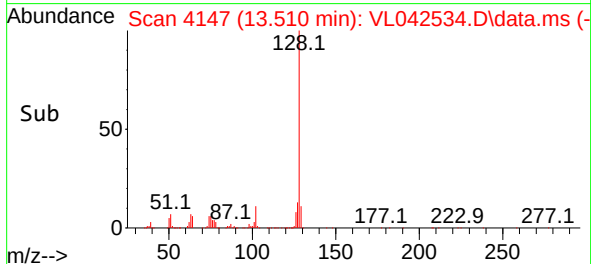
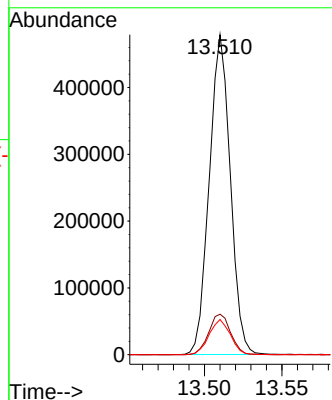
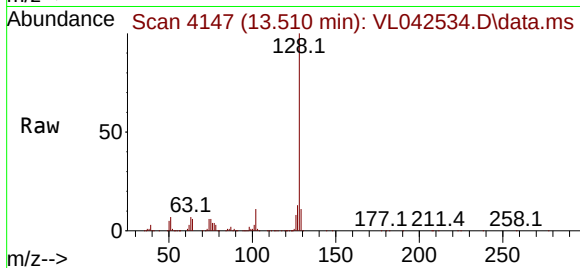
Tgt Ion:128 Resp: 452623

Ion Ratio Lower Upper

128 100

127 12.6 9.8 14.8

129 11.0 8.6 12.8



#80

Naphthalene,2-methyl-

Concen: 18.008 ppbv

RT: 14.455 min Scan# 4439

Delta R.T. 0.003 min

Lab File: VL042534.D

Acq: 12 May 2025 16:10

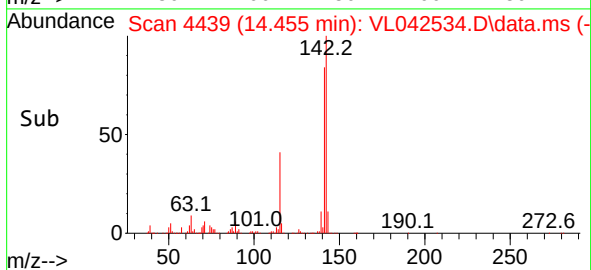
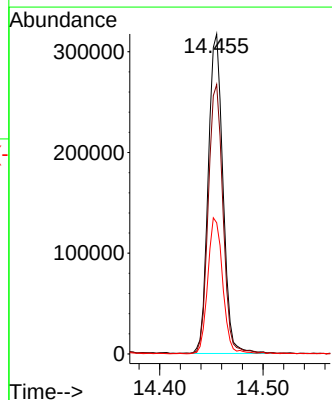
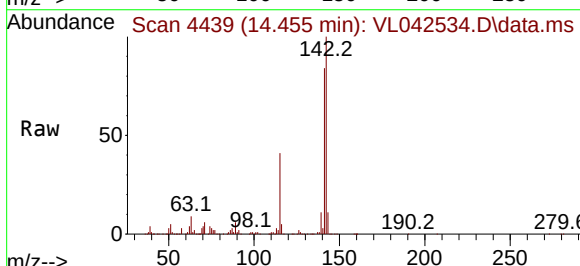
Tgt Ion:142 Resp: 312897

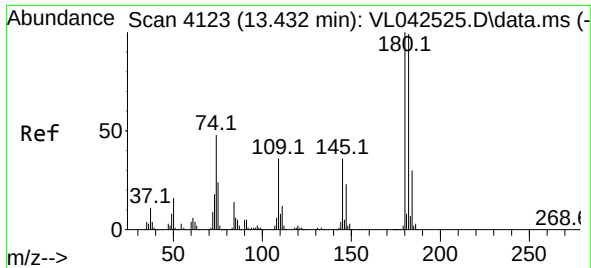
Ion Ratio Lower Upper

142 100

141 84.7 66.8 100.2

115 43.7 33.0 49.6





#81

1,2,4-Trichlorobenzene

Concen: 13.190 ppbv

RT: 13.436 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042534.D

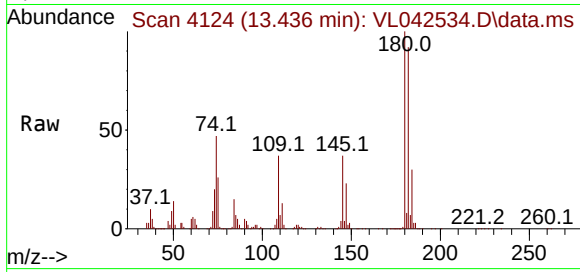
Acq: 12 May 2025 16:10

Instrument :

MSVOA_L

ClientSampleId :

ICVVL051225



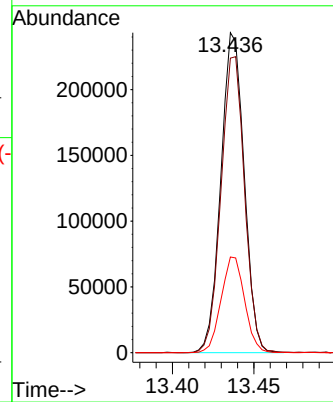
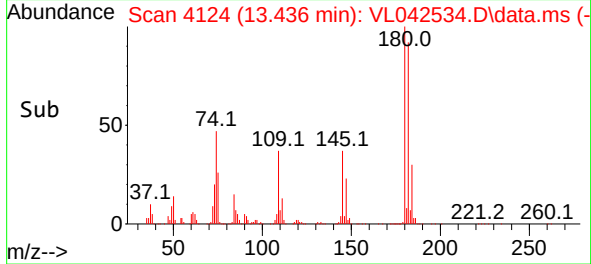
Tgt Ion:180 Resp: 241524

Ion Ratio Lower Upper

180 100

182 93.7 76.6 114.8

184 30.2 24.6 36.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051425\
 Data File : VL042536.D
 Acq On : 14 May 2025 10:23
 Operator : SY/MD
 Sample : VSTDC0010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDC0010

Quant Time: May 15 01:31:30 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue May 13 02:07:03 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.791	49	118016	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	3.962	114	346885	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.885	117	301246	10.000	ppbv	0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	262420	10.012	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.100%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	171613	8.955	ppbv	98
3) Chlorodifluoromethane	1.476	51	178542	9.142	ppbv	99
4) Chloromethane	1.535	50	70011	8.951	ppbv	94
5) Vinyl Chloride	1.580	62	64926	8.113	ppbv	99
6) Bromomethane	1.671	94	34232	9.007	ppbv	94
7) Chloroethane	1.706	64	25275	7.999	ppbv	95
8) Dichlorotetrafluoroethane	1.554	85	145026	8.795	ppbv	97
9) Propene	1.774	41	44201	10.436	ppbv	98
10) Heptane	4.985	43	167648	10.358	ppbv	100
11) Trichlorofluoromethane	1.878	101	174991	9.493	ppbv	95
12) 1,1,2-Trichlorotrifluo...	2.143	101	140590	9.496	ppbv	99
13) Ethanol	1.722	45	8187	7.187	ppbv	95
14) Bromoethene	1.784	108	49951	9.254	ppbv	99
15) Acetone	1.836	43	144309	7.586	ppbv	99
16) 1,3-Butadiene	1.609	39	76085	8.972	ppbv	97
17) tert-Butyl alcohol	2.043	59	167624	9.620	ppbv	99
18) 1,1-Dichloroethene	2.036	96	62337	9.607	ppbv	97
19) Isopropyl Alcohol	1.888	45	93610	9.138	ppbv	100
20) Methylene Chloride	2.062	84	55969	8.523	ppbv	98
21) Allyl Chloride	2.098	41	119972	9.609	ppbv	98
22) trans-1,2-Dichloroethene	2.344	96	70366	9.270	ppbv	92
23) Vinyl Acetate	2.464	43	194509	9.852	ppbv #	99
24) 1,1-Dichloroethane	2.412	63	139379	9.491	ppbv	98
25) Ethyl Acetate	2.839	43	320825	9.689	ppbv	100
26) Hexane	2.826	57	142712	10.498	ppbv	95
27) Carbon Disulfide	2.153	76	173546	9.889	ppbv	97
28) Methyl tert-Butyl Ether	2.444	73	84256	11.156	ppbv	96
29) Chloroform	2.852	83	250373	8.880	ppbv	98
30) Cyclohexane	3.862	84	117210	10.502	ppbv	99
31) cis-1,2-Dichloroethene	2.723	61	144036	9.383	ppbv	94
32) 1,1,1-Trichloroethane	3.370	97	255645	8.787	ppbv	97
34) 2-Butanone	2.557	43	198101	8.664	ppbv	100
35) Carbon Tetrachloride	3.765	117	279020	8.947	ppbv	98
36) Benzene	3.661	78	292705	9.521	ppbv	99
37) 1,2-Dichloroethane	3.221	62	194846	8.885	ppbv	99
38) Trichloroethene	4.551	130	121523	9.092	ppbv	98
39) 1,2-Dichloropropane	4.318	63	102683	8.967	ppbv	94
40) 1,4-Dioxane	4.584	88	45600	9.810	ppbv #	90
41) Tetrahydrofuran	3.056	42	103053	10.412	ppbv	99
42) Bromodichloromethane	4.493	83	268737	9.183	ppbv	94
43) Methyl Methacrylate	4.888	69	64497	6.265	ppbv #	27
44) 2,2,4-Trimethylpentane	4.645	57	482249	9.900	ppbv	99
45) t-1,3-Dichloropropene	6.419	75	135101	10.271	ppbv	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051425\
 Data File : VL042536.D
 Acq On : 14 May 2025 10:23
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

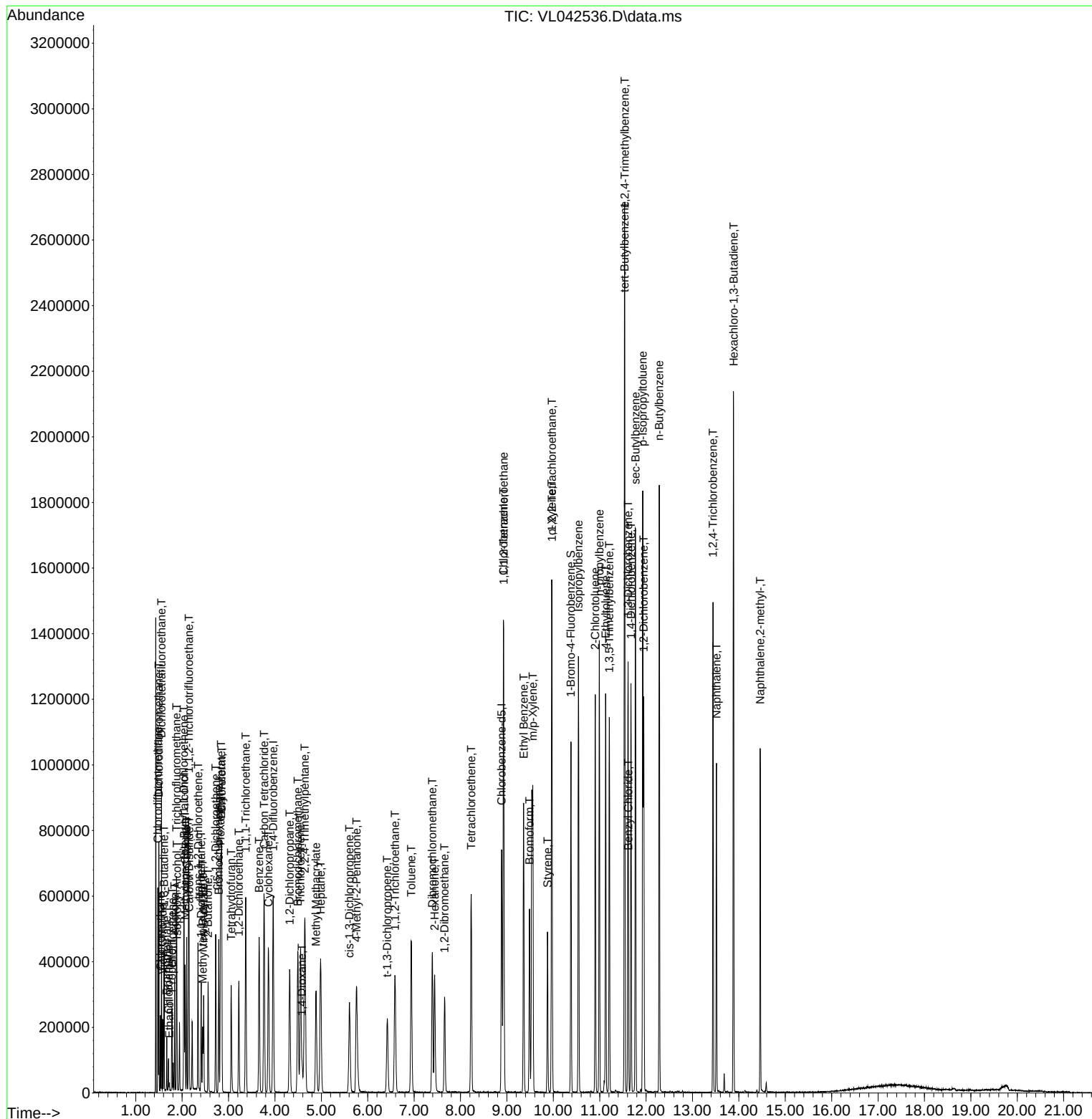
Quant Time: May 15 01:31:30 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue May 13 02:07:03 2025
 Response via : Initial Calibration

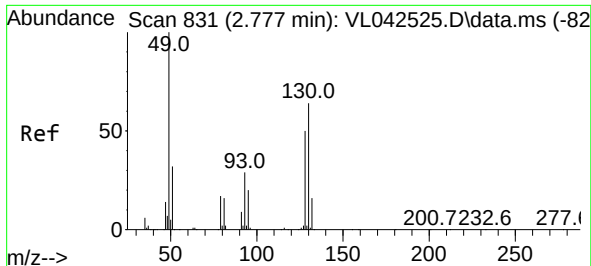
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.606	75	162473	10.268	ppbv	94
47) 1,1,2-Trichloroethane	6.587	97	121339	8.999	ppbv	97
48) Dibromochloromethane	7.393	129	214390	9.523	ppbv	98
49) Bromoform	9.487	173	180872	9.790	ppbv	99
50) 4-Methyl-2-Pentanone	5.759	43	277297	10.326	ppbv	99
51) 2-Hexanone	7.442	43	226925	11.360	ppbv #	99
52) Tetrachloroethene	8.231	164	105432	8.964	ppbv	97
53) Toluene	6.940	91	324628	10.761	ppbv	99
54) 1,2-Dibromoethane	7.655	107	182645	9.275	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.930	131	166298	8.904	ppbv	98
57) Chlorobenzene	8.927	112	271874	8.989	ppbv	96
58) Ethyl Benzene	9.361	91	470778	11.466	ppbv	90
59) m/p-Xylene	9.558	91	396174	10.864	ppbv #	100
60) o-Xylene	9.966	91	400752	11.253	ppbv	99
61) Styrene	9.876	104	155757	11.809	ppbv	99
62) Isopropylbenzene	10.542	105	582836	10.866	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.969	83	247714	8.570	ppbv	100
64) n-propylbenzene	10.992	120	149494	10.978	ppbv	97
65) tert-Butylbenzene	11.536	119	531415	10.790	ppbv	100
66) Benzyl Chloride	11.620	91	68005	10.391	ppbv	97
67) sec-Butylbenzene	11.772	105	733701	10.390	ppbv	100
69) p-Isopropyltoluene	11.928	119	641428	11.049	ppbv	100
70) n-Butylbenzene	12.284	91	637479	11.113	ppbv	99
71) 2-Chlorotoluene	10.905	91	449790	11.075	ppbv	99
72) 4-Ethyltoluene	11.128	105	497072	11.252	ppbv	99
73) 1,3,5-Trimethylbenzene	11.206	105	417484	10.849	ppbv	100
74) 1,2,4-Trimethylbenzene	11.539	105	474163	10.016	ppbv	93
75) 1,3-Dichlorobenzene	11.610	146	280626	9.464	ppbv	99
76) 1,4-Dichlorobenzene	11.675	146	280915	9.958	ppbv	100
77) 1,2-Dichlorobenzene	11.950	146	272842	8.908	ppbv	99
78) Hexachloro-1,3-Butadiene	13.886	225	225532	8.588	ppbv	99
79) Naphthalene	13.517	128	441576	13.459	ppbv	96
80) Naphthalene,2-methyl-	14.459	142	275041	14.525	ppbv	99
81) 1,2,4-Trichlorobenzene	13.442	180	227198	11.385	ppbv	99

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

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Quant Time: May 15 01:31:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue May 13 02:07:03 2025
Response via : Initial Calibration

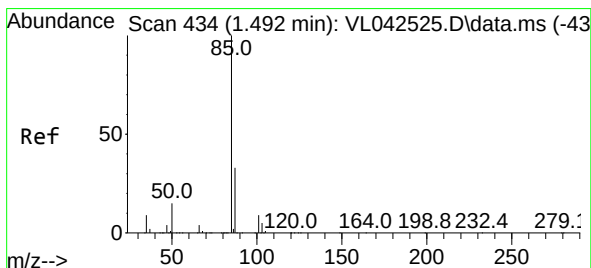
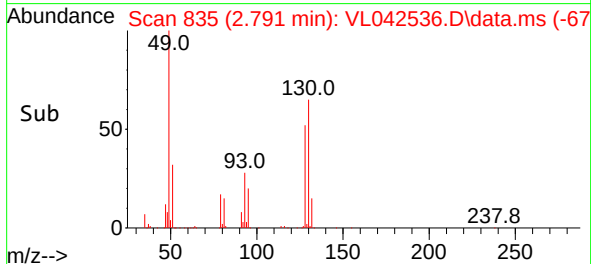
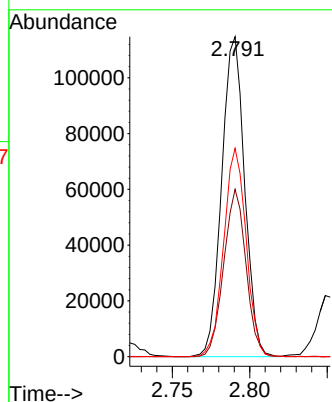
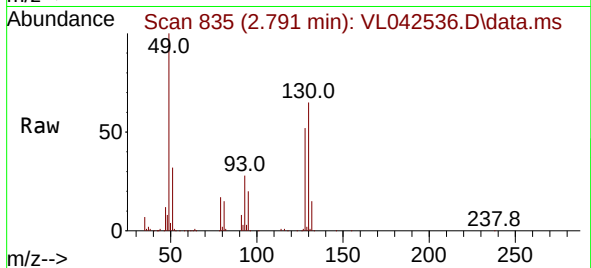




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.791 min Scan# 81
Delta R.T. 0.014 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

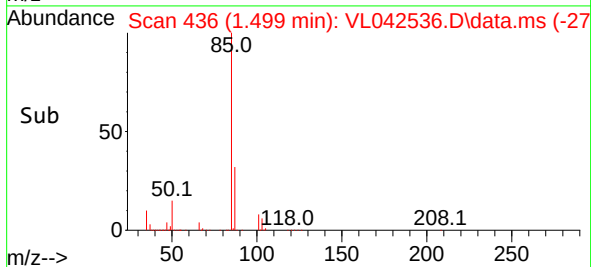
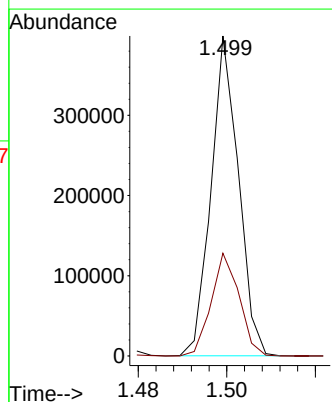
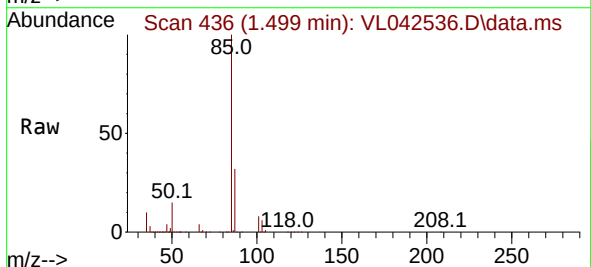
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

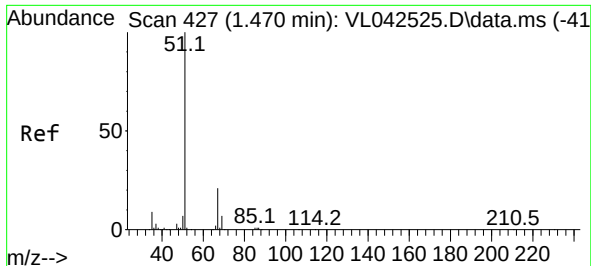
Tgt Ion: 49 Resp: 118016
Ion Ratio Lower Upper
49 100
128 50.7 24.9 74.6
130 64.0 32.5 97.5



#2
Dichlorodifluoromethane
Concen: 8.955 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.007 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

Tgt Ion: 85 Resp: 171613
Ion Ratio Lower Upper
85 100
87 32.1 26.8 40.2

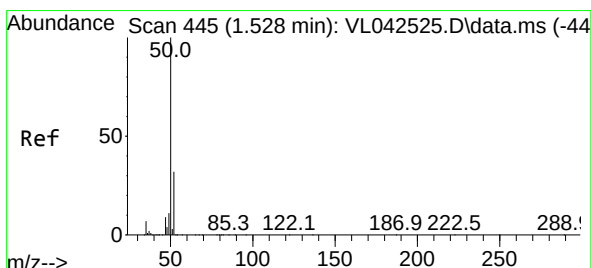
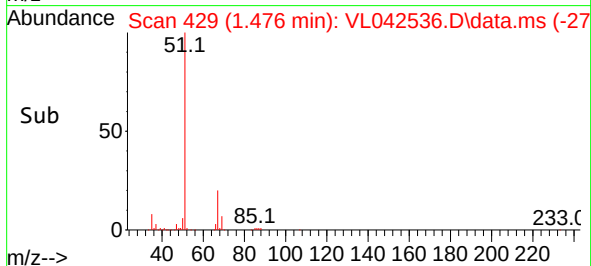
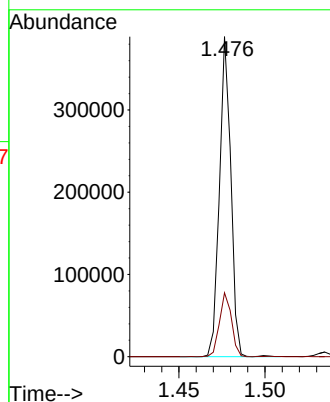
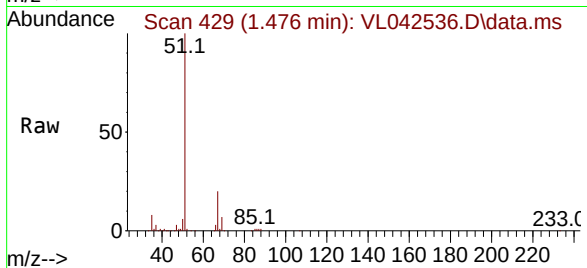




#3
Chlorodifluoromethane
Concen: 9.142 ppbv
RT: 1.476 min Scan# 41
Delta R.T. 0.007 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

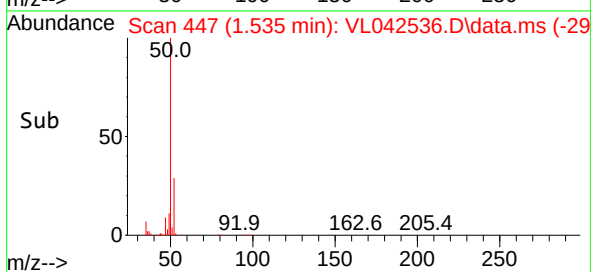
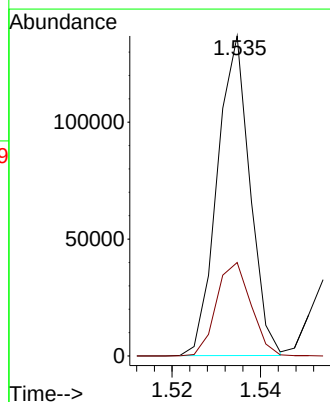
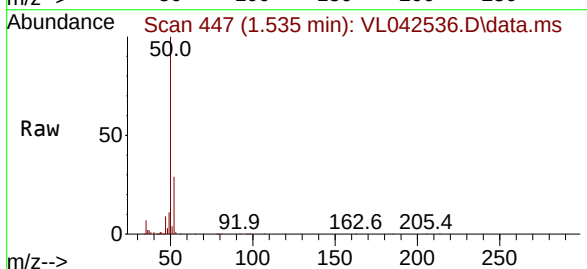
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

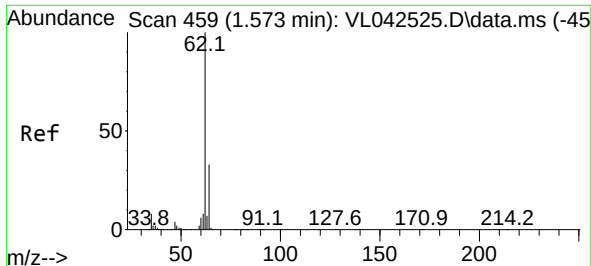
Tgt Ion: 51 Resp: 178542
Ion Ratio Lower Upper
51 100
67 21.3 17.4 26.0



#4
Chloromethane
Concen: 8.951 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.007 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

Tgt Ion: 50 Resp: 70011
Ion Ratio Lower Upper
50 100
52 29.2 25.9 38.9

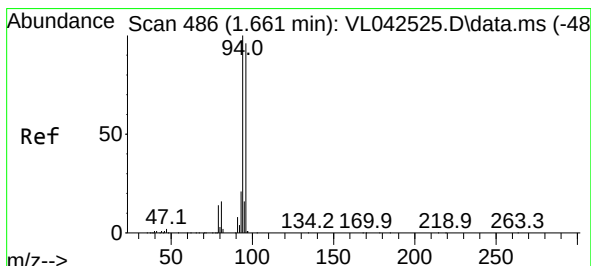
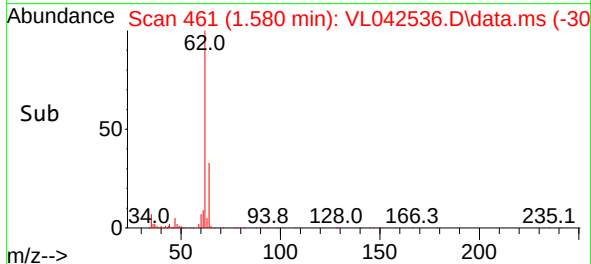
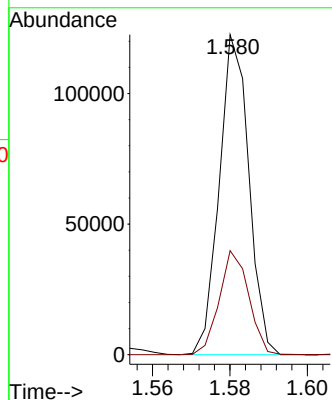
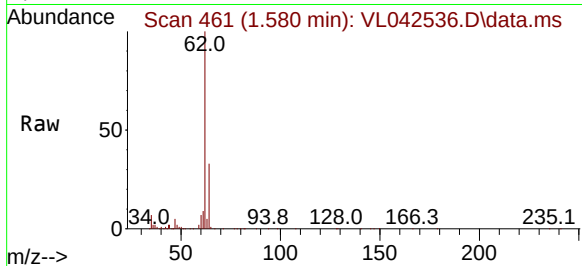




#5
 Vinyl Chloride
 Concen: 8.113 ppbv
 RT: 1.580 min Scan# 459
 Delta R.T. 0.007 min
 Lab File: VL042536.D
 Acq: 14 May 2025 10:23

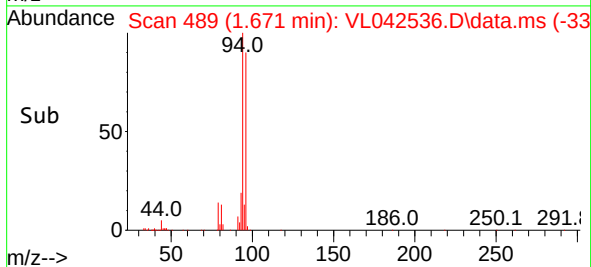
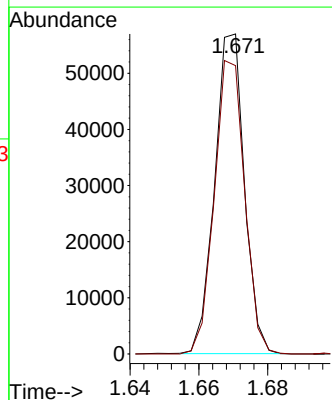
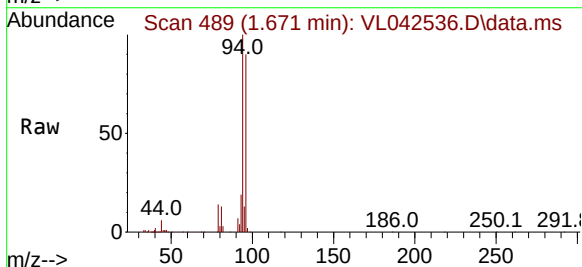
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010

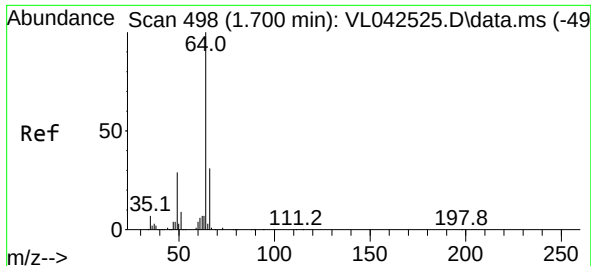
Tgt Ion: 62 Resp: 64926
 Ion Ratio Lower Upper
 62 100
 64 32.5 26.5 39.7



#6
 Bromomethane
 Concen: 9.007 ppbv
 RT: 1.671 min Scan# 489
 Delta R.T. 0.010 min
 Lab File: VL042536.D
 Acq: 14 May 2025 10:23

Tgt Ion: 94 Resp: 34232
 Ion Ratio Lower Upper
 94 100
 96 90.2 76.9 115.3

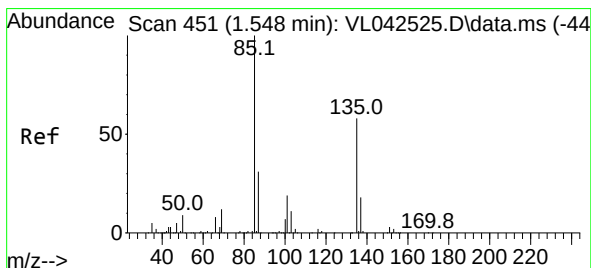
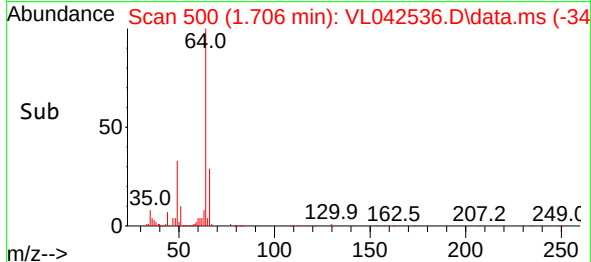
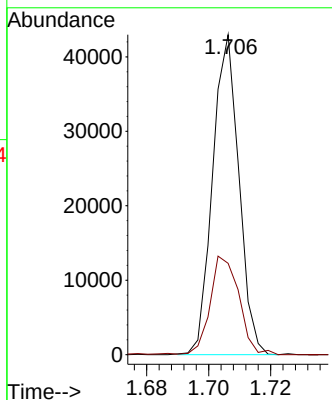
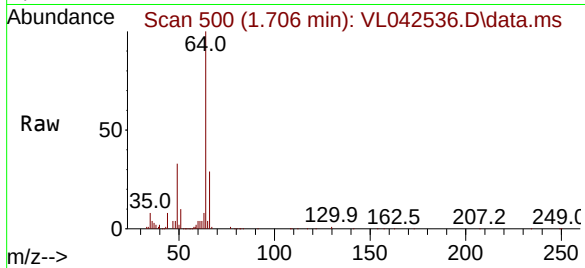




#7
Chloroethane
Concen: 7.999 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.007 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

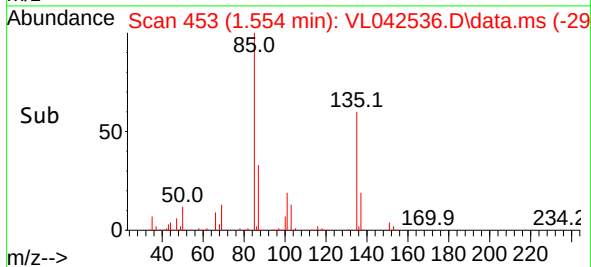
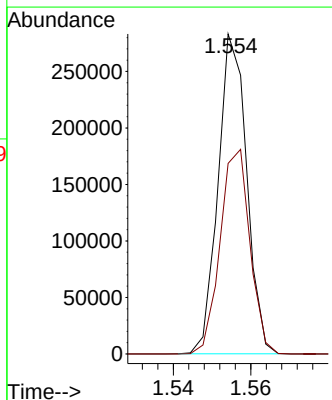
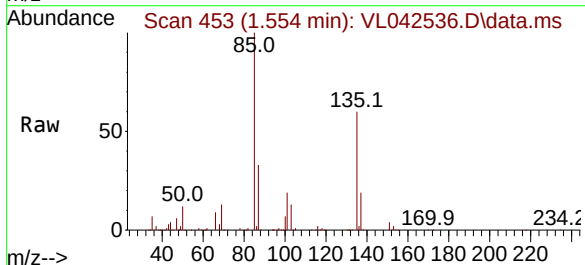
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

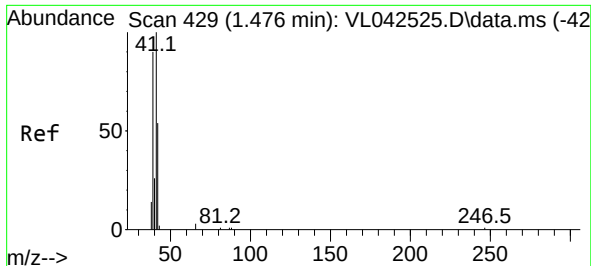
Tgt Ion: 64 Resp: 25275
Ion Ratio Lower Upper
64 100
66 28.6 25.1 37.7



#8
Dichlorotetrafluoroethane
Concen: 8.795 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.007 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

Tgt Ion: 85 Resp: 145026
Ion Ratio Lower Upper
85 100
135 66.9 51.8 77.8





#9

Propene

Concen: 10.436 ppbv

RT: 1.774 min Scan# 51

Delta R.T. 0.298 min

Lab File: VL042536.D

Acq: 14 May 2025 10:23

Instrument :

MSVOA_L

ClientSampleId :

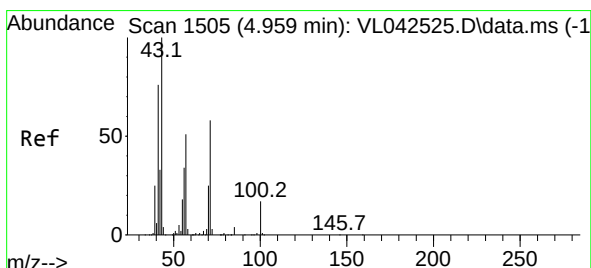
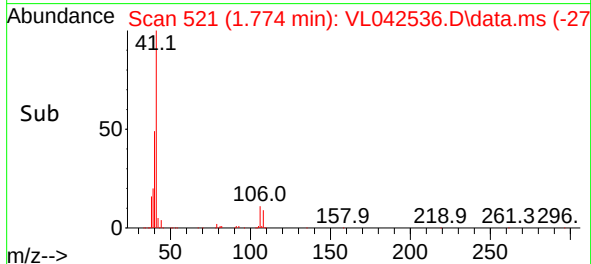
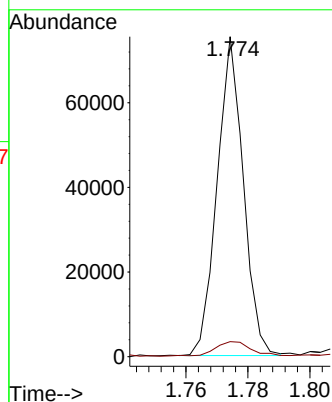
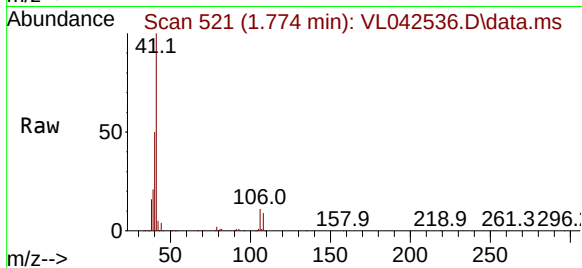
VSTDCCC010

Tgt Ion: 41 Resp: 44201

Ion Ratio Lower Upper

41 100

42 5.8 4.1 6.1



#10

Heptane

Concen: 10.358 ppbv

RT: 4.985 min Scan# 1513

Delta R.T. 0.026 min

Lab File: VL042536.D

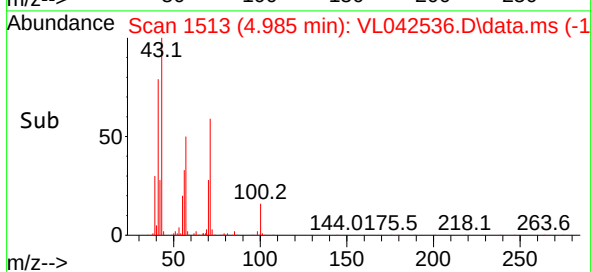
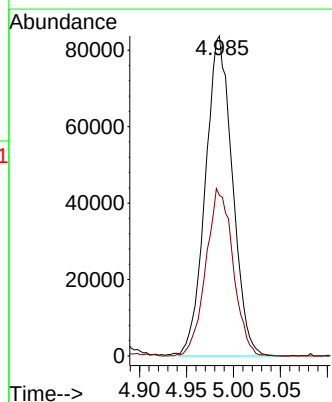
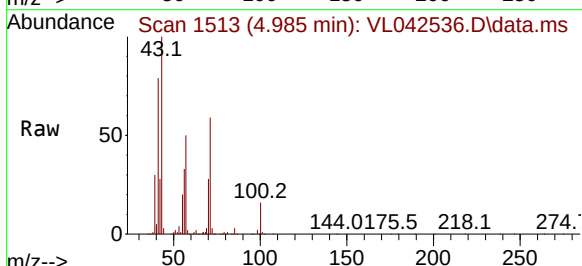
Acq: 14 May 2025 10:23

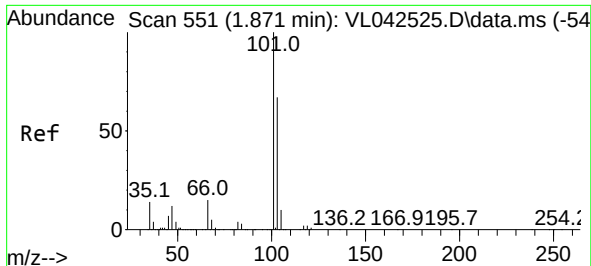
Tgt Ion: 43 Resp: 167648

Ion Ratio Lower Upper

43 100

57 52.5 42.1 63.1

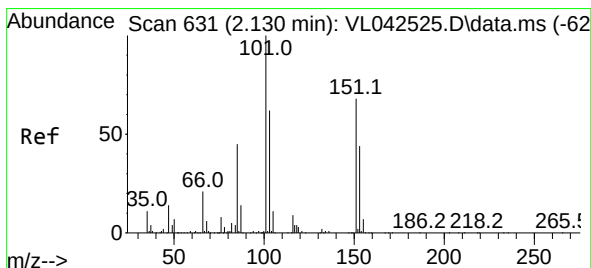
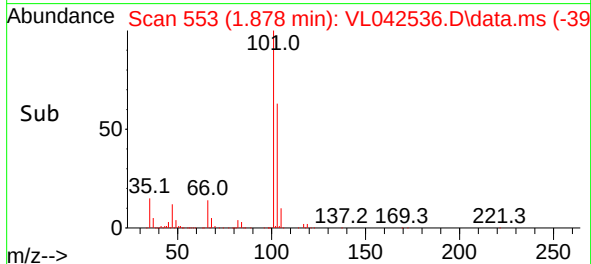
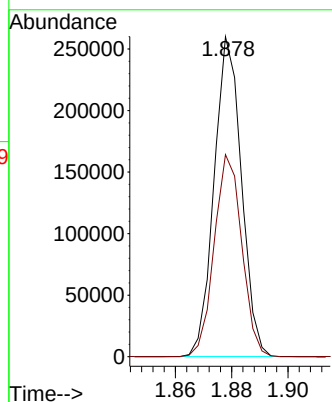
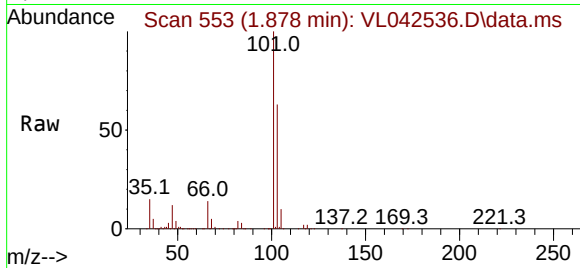




#11
 Trichlorofluoromethane
 Concen: 9.493 ppbv
 RT: 1.878 min Scan# 511
 Delta R.T. 0.007 min
 Lab File: VL042536.D
 Acq: 14 May 2025 10:23

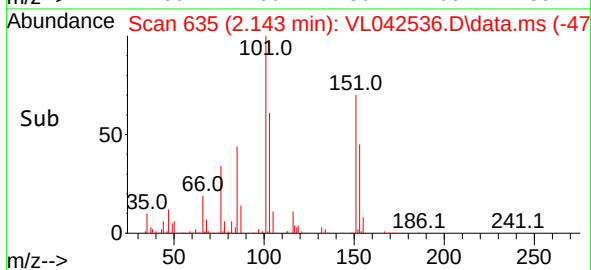
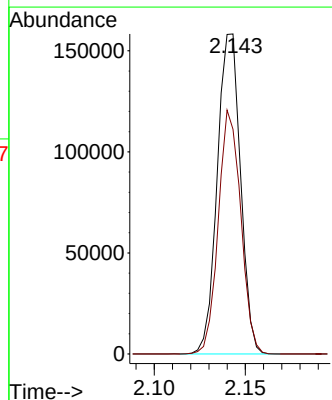
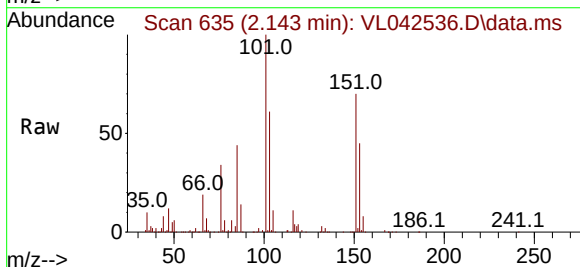
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

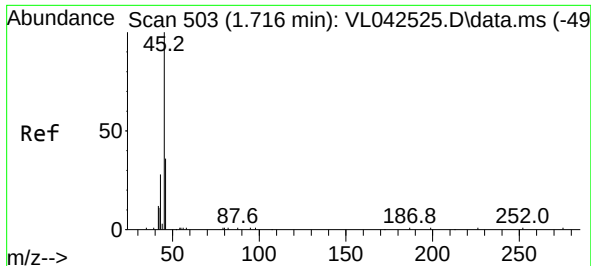
Tgt Ion:101 Resp: 174991
 Ion Ratio Lower Upper
 101 100
 103 63.2 53.8 80.6



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.496 ppbv
 RT: 2.143 min Scan# 635
 Delta R.T. 0.013 min
 Lab File: VL042536.D
 Acq: 14 May 2025 10:23

Tgt Ion:101 Resp: 140590
 Ion Ratio Lower Upper
 101 100
 151 73.4 57.8 86.8

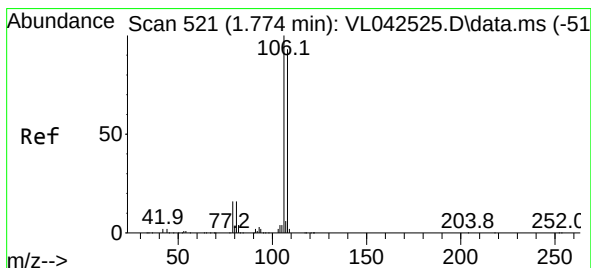
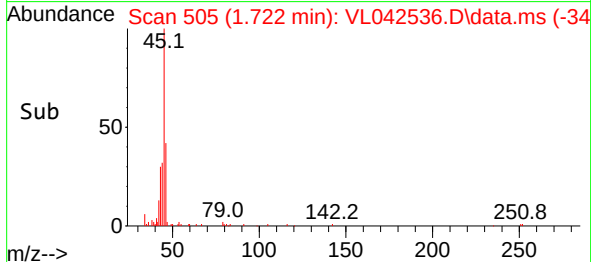
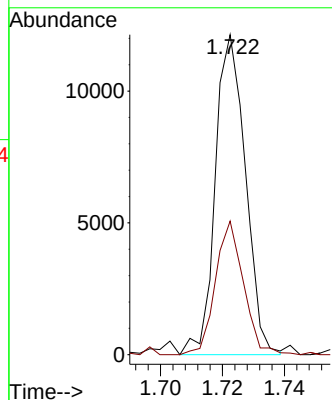
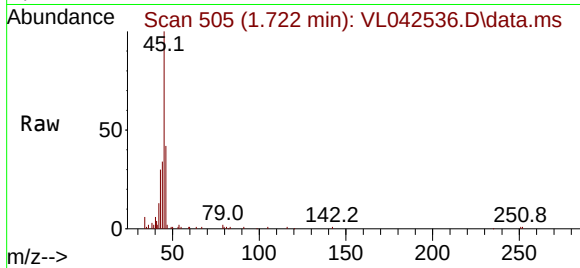




#13
Ethanol
Concen: 7.187 ppbv
RT: 1.722 min Scan# 503
Delta R.T. 0.007 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

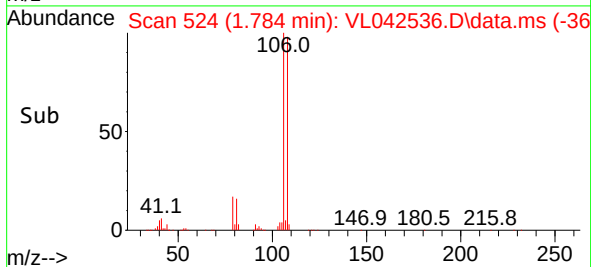
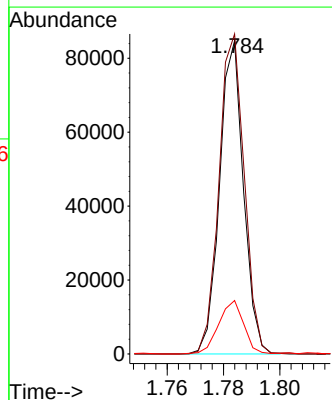
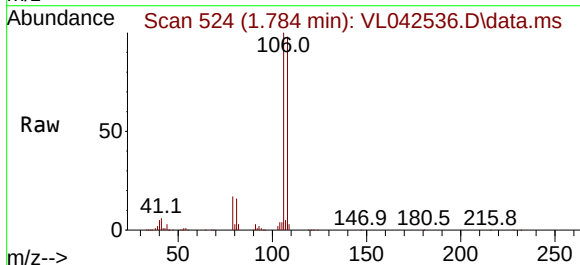
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

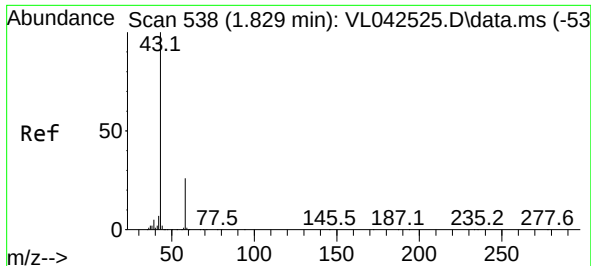
Tgt Ion: 45 Resp: 8187
Ion Ratio Lower Upper
45 100
46 40.0 14.8 59.4



#14
Bromoethene
Concen: 9.254 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.010 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

Tgt Ion: 108 Resp: 49951
Ion Ratio Lower Upper
108 100
106 107.9 87.4 131.2
79 18.6 15.1 22.7

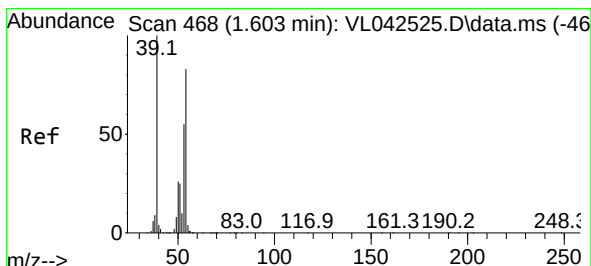
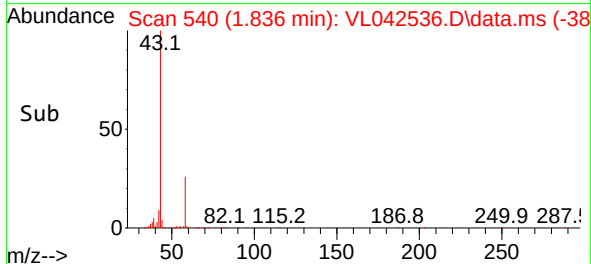
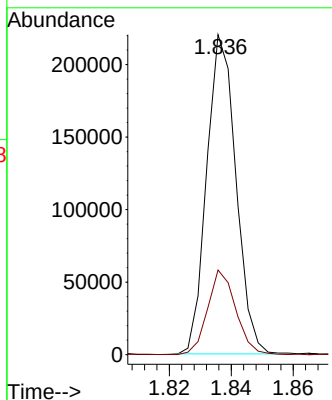
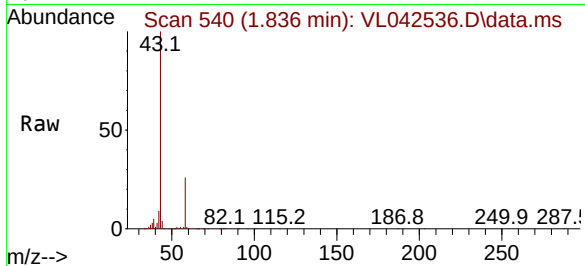




#15
Acetone
Concen: 7.586 ppbv
RT: 1.836 min Scan# 54
Delta R.T. 0.007 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

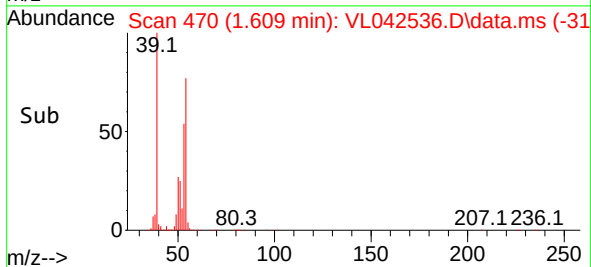
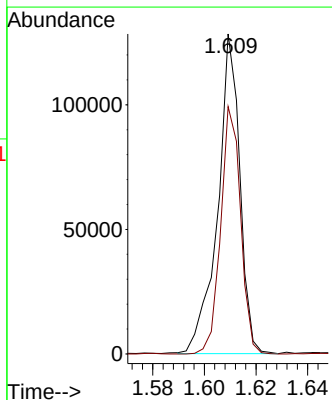
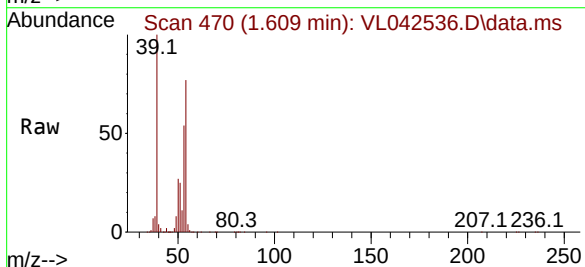
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

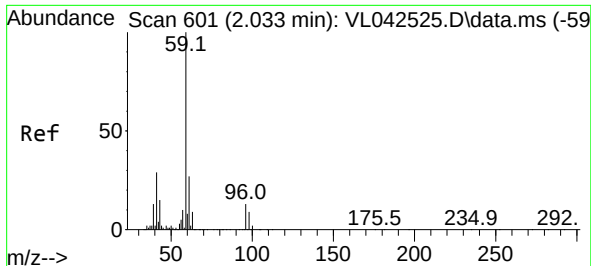
Tgt Ion: 43 Resp: 144309
Ion Ratio Lower Upper
43 100
58 25.9 21.3 31.9



#16
1,3-Butadiene
Concen: 8.972 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.007 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

Tgt Ion: 39 Resp: 76085
Ion Ratio Lower Upper
39 100
54 69.8 57.8 86.6





#17

tert-Butyl alcohol

Concen: 9.620 ppbv

RT: 2.043 min Scan# 601

Delta R.T. 0.010 min

Lab File: VL042536.D

Acq: 14 May 2025 10:23

Instrument :

MSVOA_1

ClientSampleId :

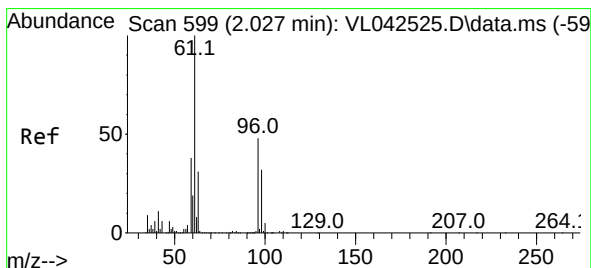
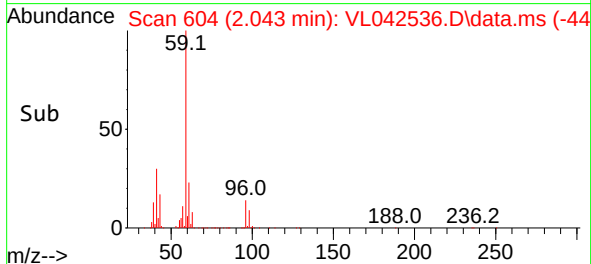
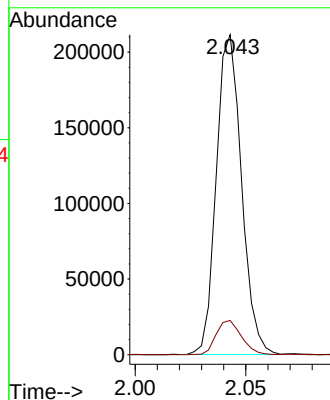
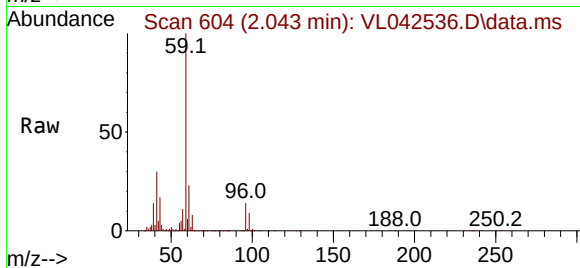
VSTDCCC010

Tgt Ion: 59 Resp: 167624

Ion Ratio Lower Upper

59 100

57 10.8 8.2 12.4



#18

1,1-Dichloroethene

Concen: 9.607 ppbv

RT: 2.036 min Scan# 602

Delta R.T. 0.010 min

Lab File: VL042536.D

Acq: 14 May 2025 10:23

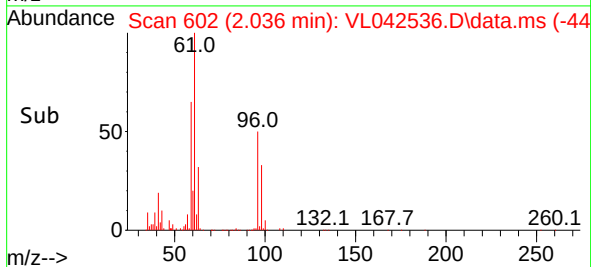
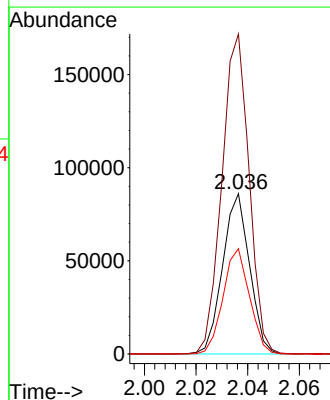
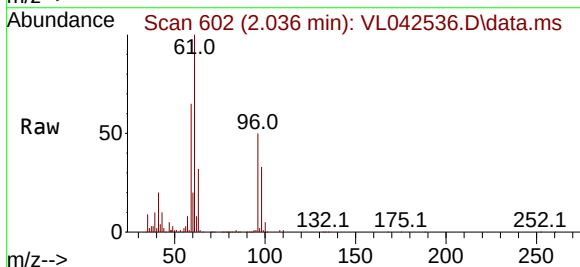
Tgt Ion: 96 Resp: 62337

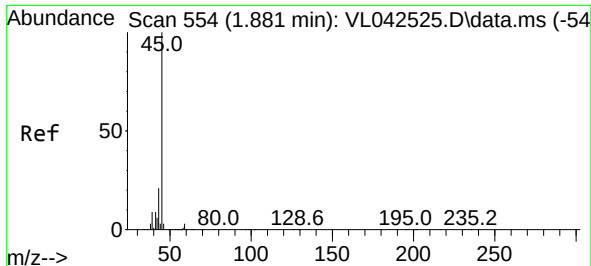
Ion Ratio Lower Upper

96 100

61 199.5 165.0 247.4

98 65.7 52.6 79.0





#19

Isopropyl Alcohol

Concen: 9.138 ppbv

RT: 1.888 min Scan# 51

Delta R.T. 0.007 min

Lab File: VL042536.D

Acq: 14 May 2025 10:23

Instrument :

MSVOA_L

ClientSampleId :

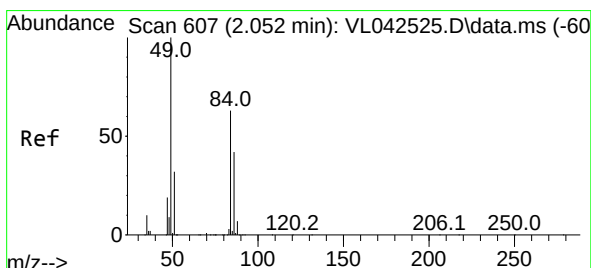
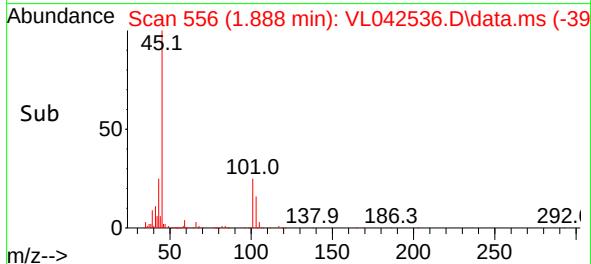
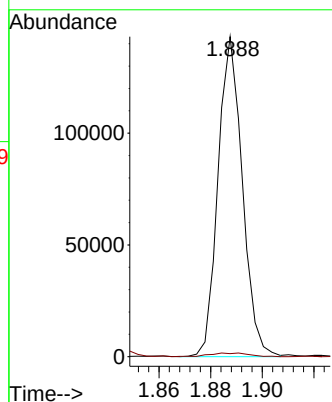
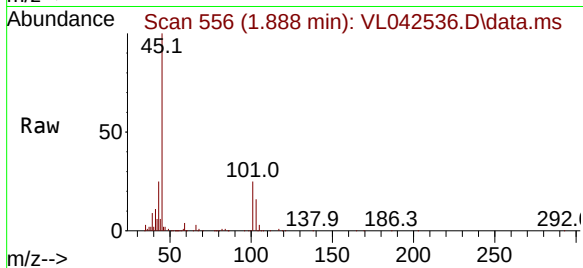
VSTDCCC010

Tgt Ion: 45 Resp: 93610

Ion Ratio Lower Upper

45 100

58 2.0 1.5 2.3



#20

Methylene Chloride

Concen: 8.523 ppbv

RT: 2.062 min Scan# 610

Delta R.T. 0.010 min

Lab File: VL042536.D

Acq: 14 May 2025 10:23

Tgt Ion: 84 Resp: 55969

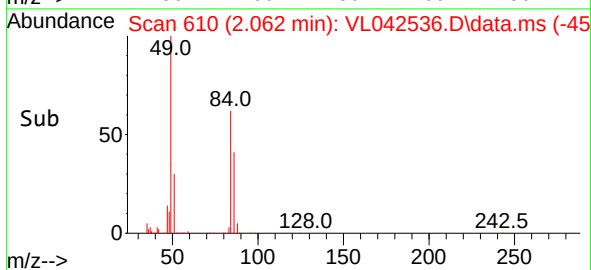
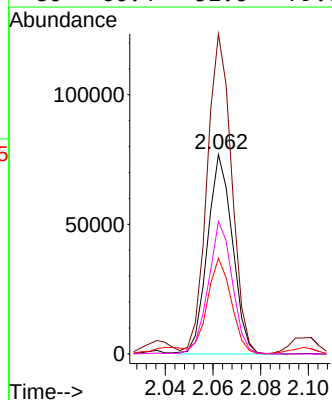
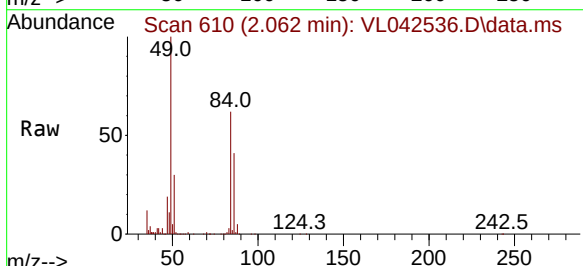
Ion Ratio Lower Upper

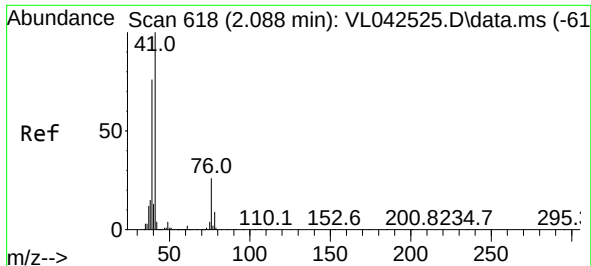
84 100

49 158.8 128.2 192.4

51 47.2 41.7 62.5

86 66.4 52.6 79.0





#21

Allyl Chloride

Concen: 9.609 ppbv

RT: 2.098 min Scan# 61

Delta R.T. 0.010 min

Lab File: VL042536.D

Acq: 14 May 2025 10:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

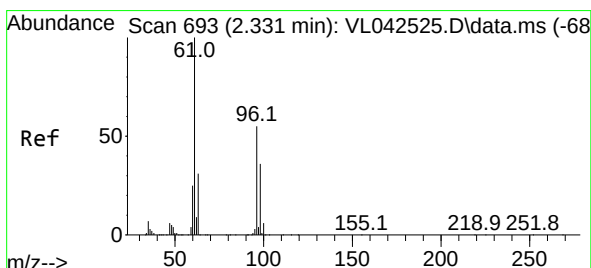
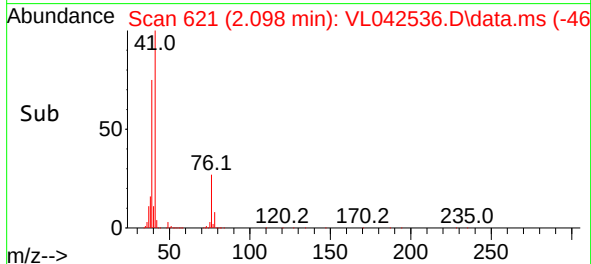
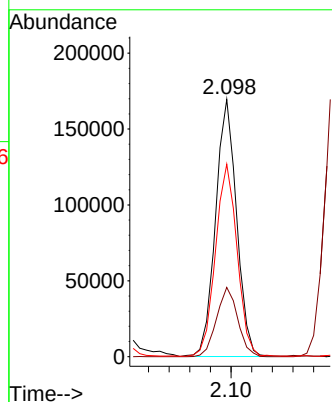
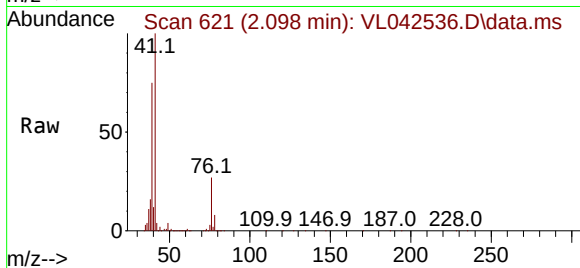
Tgt Ion: 41 Resp: 119972

Ion Ratio Lower Upper

41 100

76 27.2 22.0 33.0

39 76.8 59.5 89.3



#22

trans-1,2-Dichloroethene

Concen: 9.270 ppbv

RT: 2.344 min Scan# 697

Delta R.T. 0.013 min

Lab File: VL042536.D

Acq: 14 May 2025 10:23

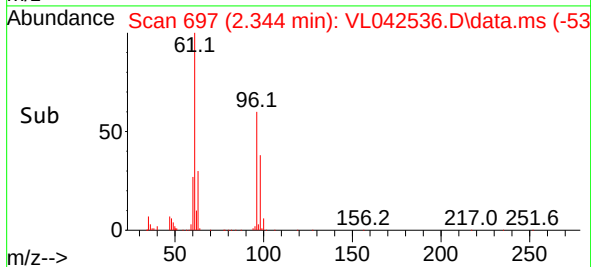
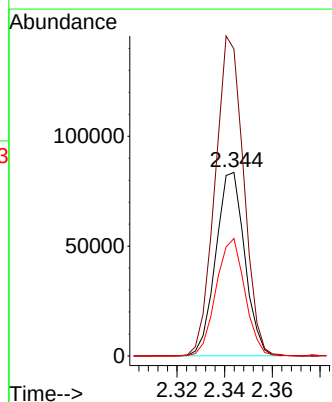
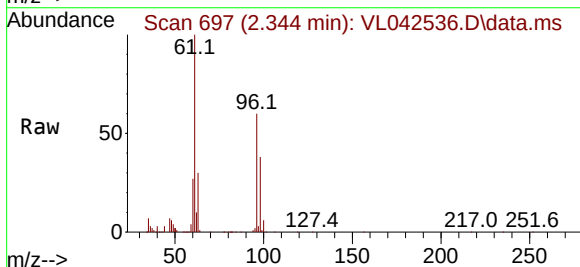
Tgt Ion: 96 Resp: 70366

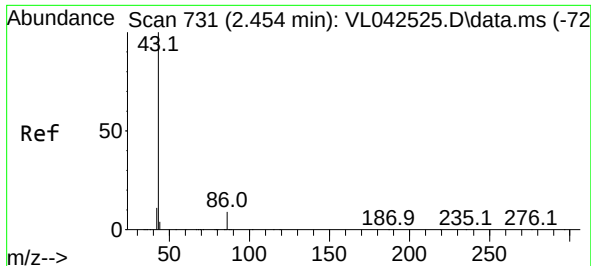
Ion Ratio Lower Upper

96 100

61 167.2 145.9 218.9

98 63.9 52.2 78.4

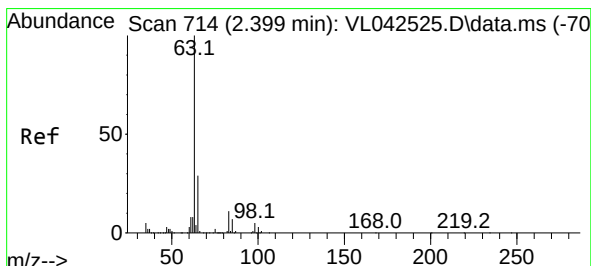
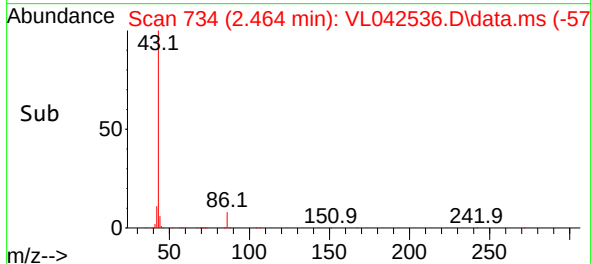
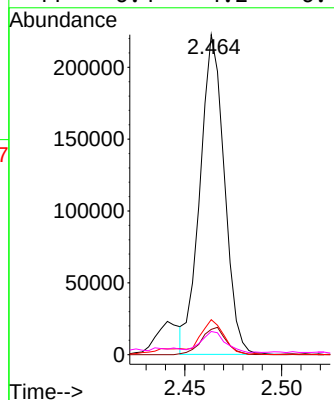
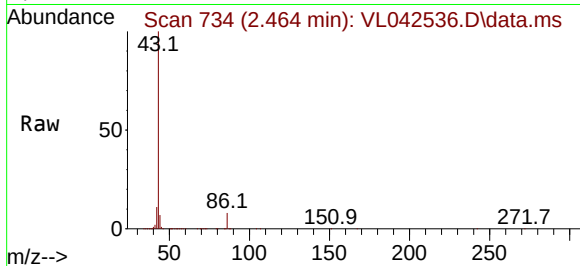




#23
 Vinyl Acetate
 Concen: 9.852 ppbv
 RT: 2.464 min Scan# 718
 Delta R.T. 0.010 min
 Lab File: VL042536.D
 Acq: 14 May 2025 10:23

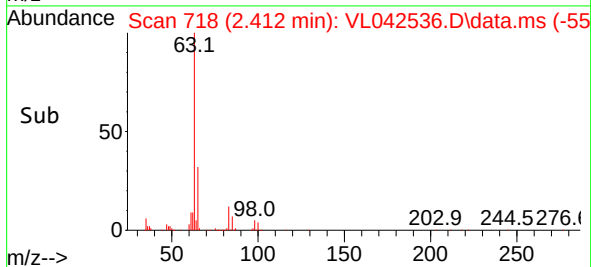
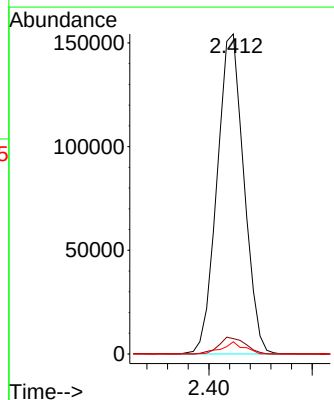
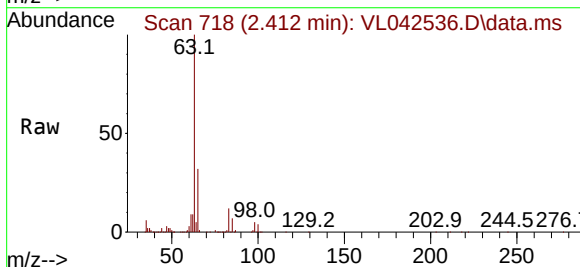
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010

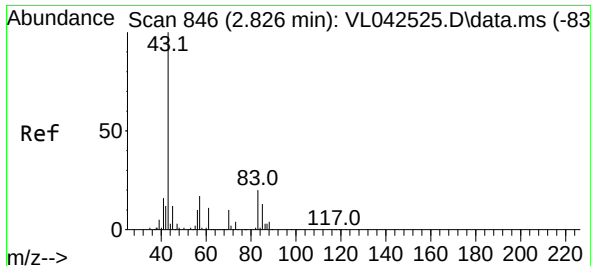
Tgt Ion: 43 Resp: 194509
 Ion Ratio Lower Upper
 43 100
 86 7.9 6.8 10.2
 42 10.9 8.8 13.2
 44 6.4 4.2 6.4#



#24
 1,1-Dichloroethane
 Concen: 9.491 ppbv
 RT: 2.412 min Scan# 718
 Delta R.T. 0.013 min
 Lab File: VL042536.D
 Acq: 14 May 2025 10:23

Tgt Ion: 63 Resp: 139379
 Ion Ratio Lower Upper
 63 100
 98 4.8 2.6 8.0
 100 3.8 1.4 4.2



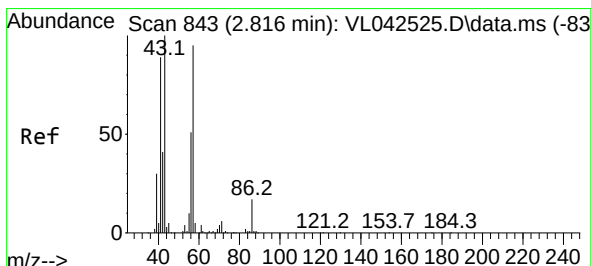
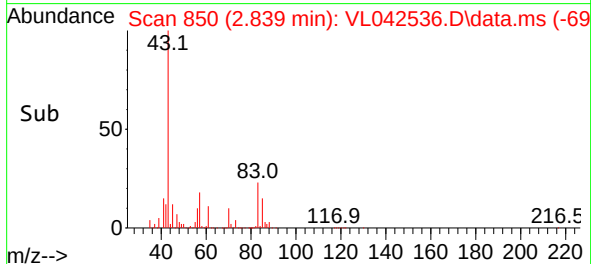
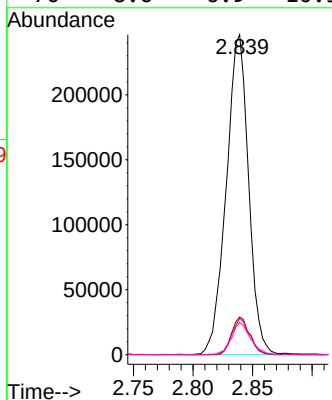
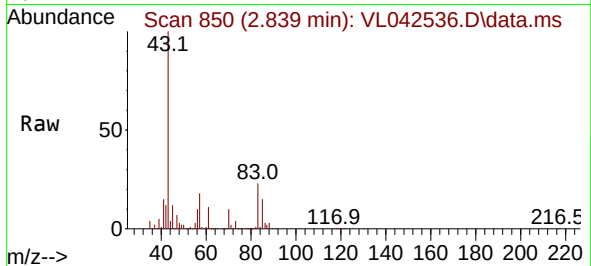


#25
Ethyl Acetate
Concen: 9.689 ppbv
RT: 2.839 min Scan# 846
Delta R.T. 0.013 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 43 Resp: 320825

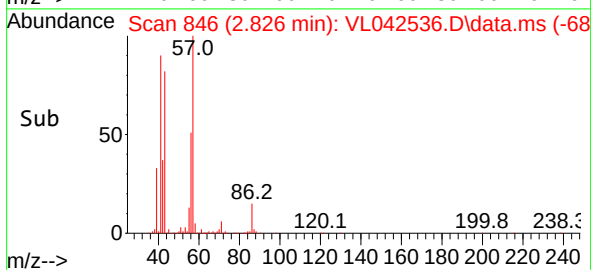
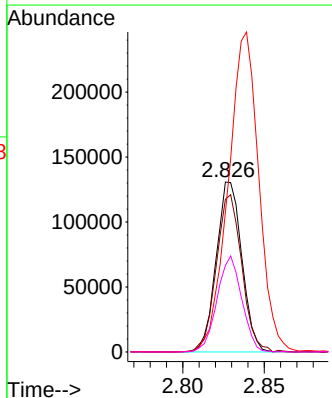
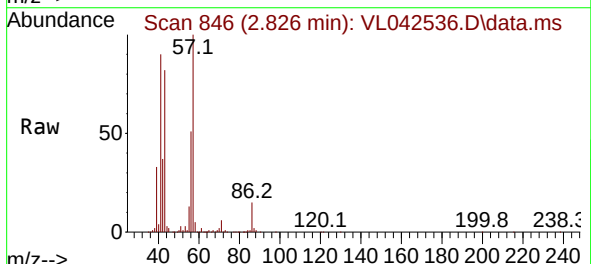
Ion	Ratio	Lower	Upper
43	100		
45	9.6	7.9	11.9
61	9.1	7.1	10.7
70	8.6	6.9	10.3

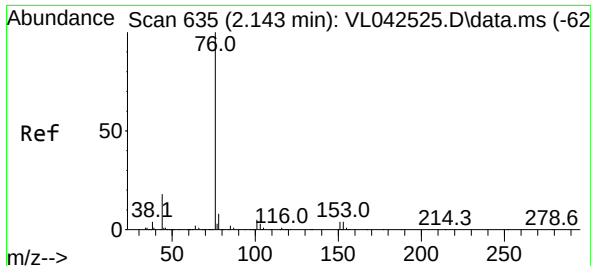


#26
Hexane
Concen: 10.498 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.010 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

Tgt Ion: 57 Resp: 142712

Ion	Ratio	Lower	Upper
57	100		
41	92.6	76.1	114.1
43	225.0	188.9	283.3
56	54.5	45.2	67.8

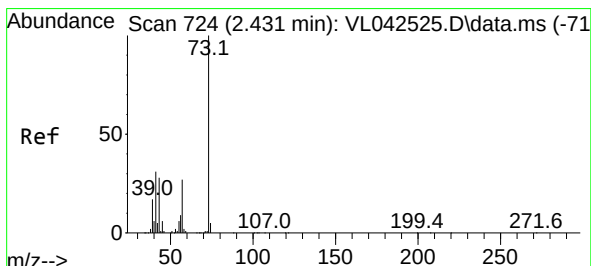
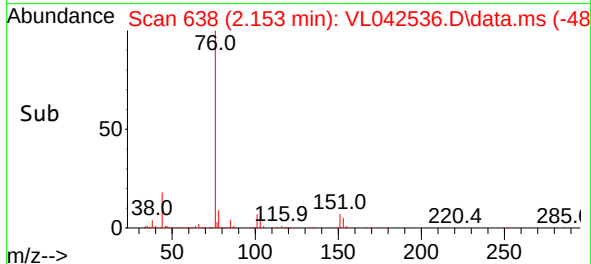
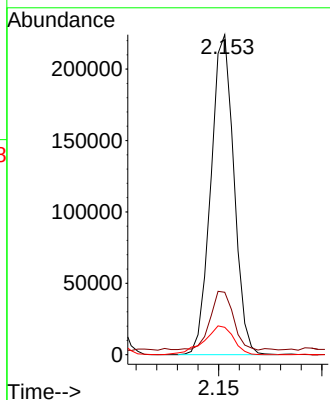
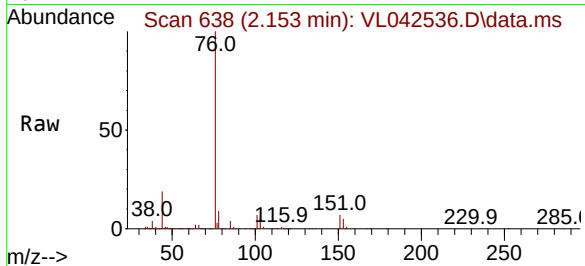




#27
Carbon Disulfide
Concen: 9.889 ppbv
RT: 2.153 min Scan# 61
Delta R.T. 0.010 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

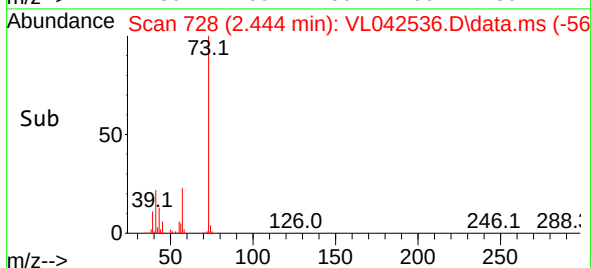
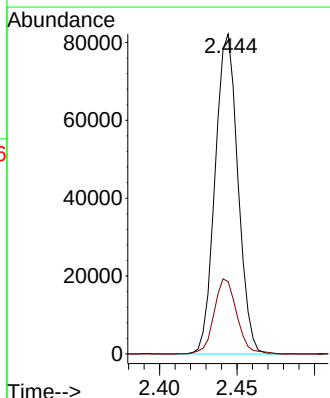
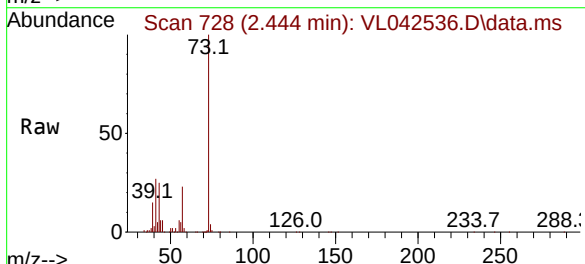
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

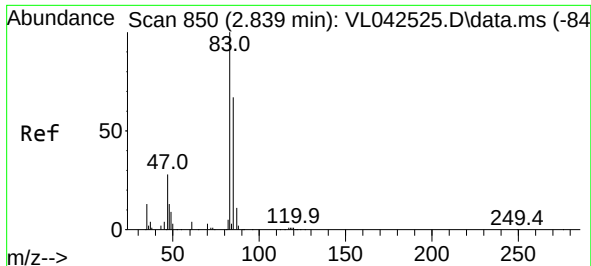
Tgt Ion: 76 Resp: 173546
Ion Ratio Lower Upper
76 100
44 20.0 17.1 25.7
78 11.5 8.6 12.8



#28
Methyl tert-Butyl Ether
Concen: 11.156 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.013 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

Tgt Ion: 73 Resp: 84256
Ion Ratio Lower Upper
73 100
57 23.4 20.3 30.5





#29

Chloroform

Concen: 8.880 ppbv

RT: 2.852 min Scan# 850

Delta R.T. 0.013 min

Lab File: VL042536.D

Acq: 14 May 2025 10:23

Instrument :

MSVOA_L

ClientSampleId :

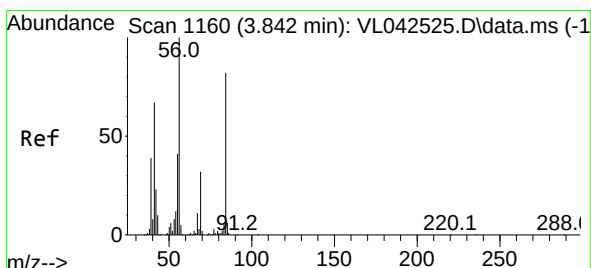
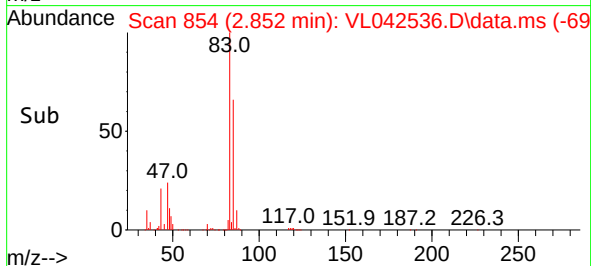
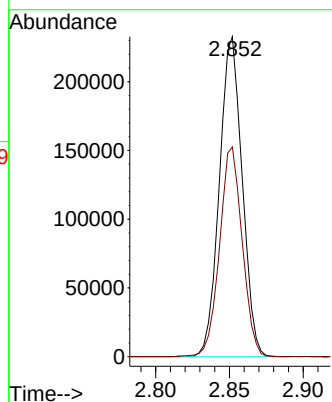
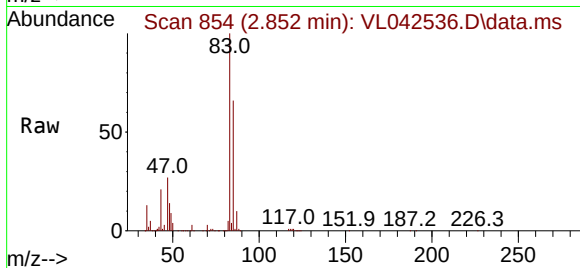
VSTDCCC010

Tgt Ion: 83 Resp: 250373

Ion Ratio Lower Upper

83 100

85 65.5 53.5 80.3



#30

Cyclohexane

Concen: 10.502 ppbv

RT: 3.862 min Scan# 1166

Delta R.T. 0.020 min

Lab File: VL042536.D

Acq: 14 May 2025 10:23

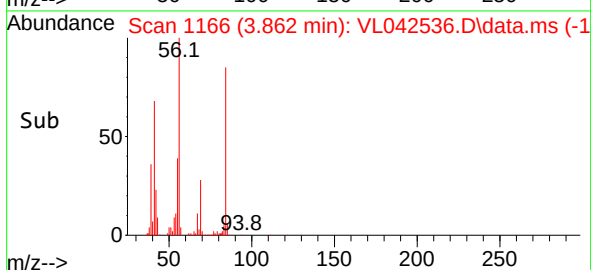
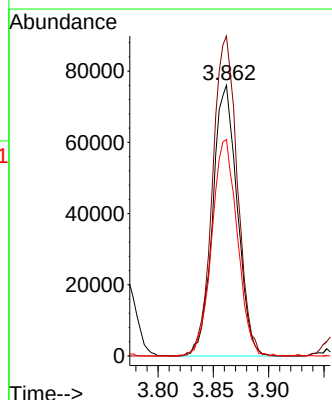
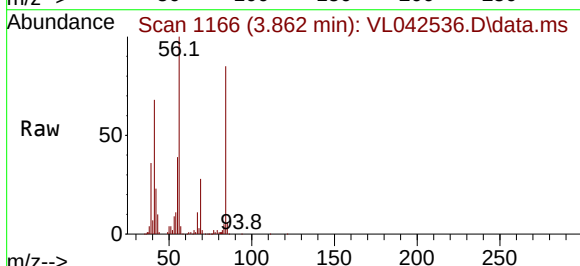
Tgt Ion: 84 Resp: 117210

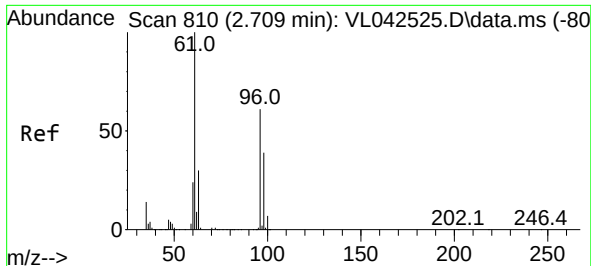
Ion Ratio Lower Upper

84 100

56 119.1 97.1 145.7

41 83.0 66.6 99.8

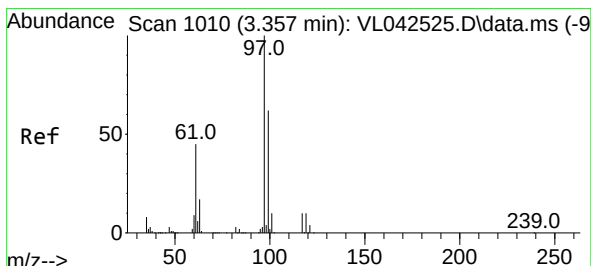
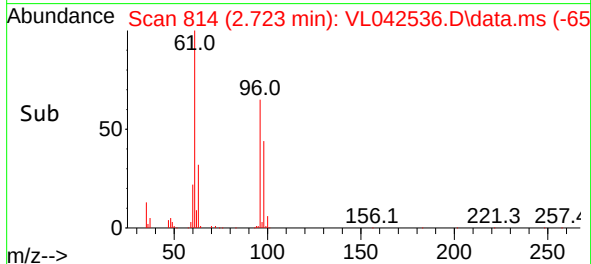
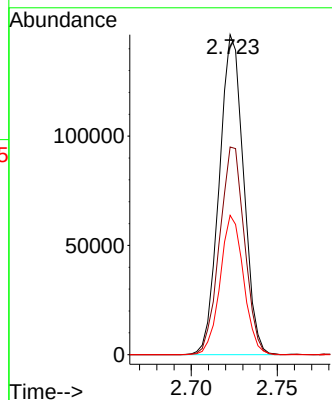
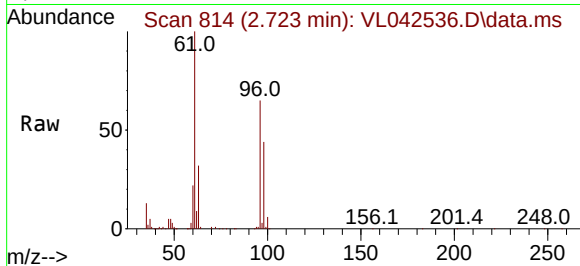




#31
 cis-1,2-Dichloroethene
 Concen: 9.383 ppbv
 RT: 2.723 min Scan# 810
 Delta R.T. 0.013 min
 Lab File: VL042536.D
 Acq: 14 May 2025 10:23

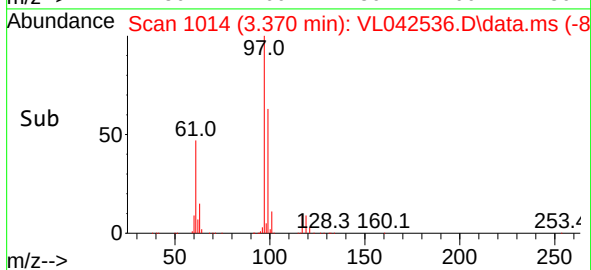
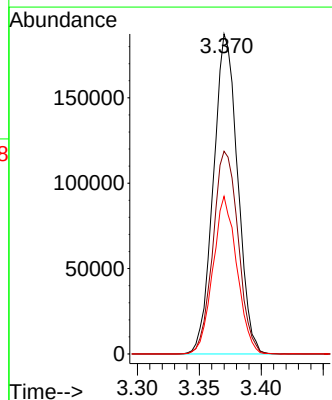
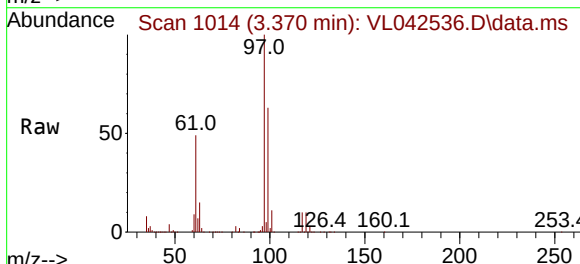
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

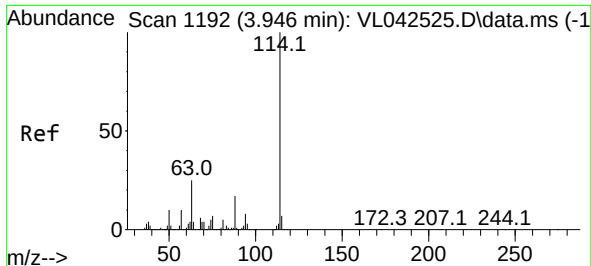
Tgt Ion: 61 Resp: 144036
 Ion Ratio Lower Upper
 61 100
 96 64.9 48.9 73.3
 98 43.6 31.4 47.2



#32
 1,1,1-Trichloroethane
 Concen: 8.787 ppbv
 RT: 3.370 min Scan# 1014
 Delta R.T. 0.013 min
 Lab File: VL042536.D
 Acq: 14 May 2025 10:23

Tgt Ion: 97 Resp: 255645
 Ion Ratio Lower Upper
 97 100
 99 65.9 50.1 75.1
 61 48.7 38.2 57.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. 0.016 min

Lab File: VL042536.D

Acq: 14 May 2025 10:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

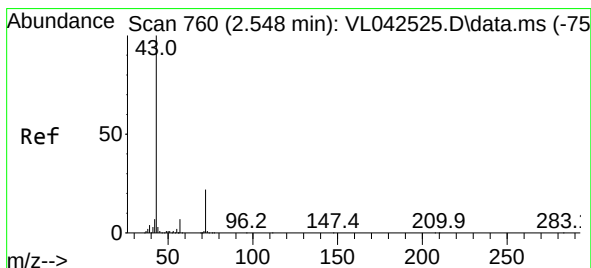
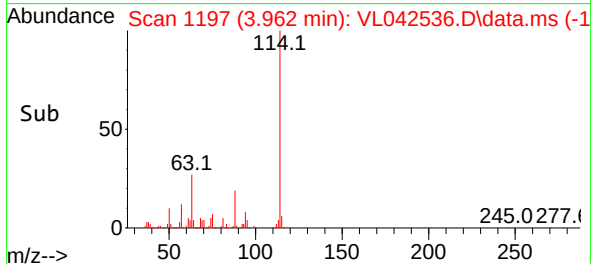
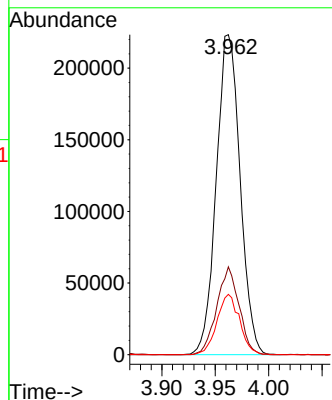
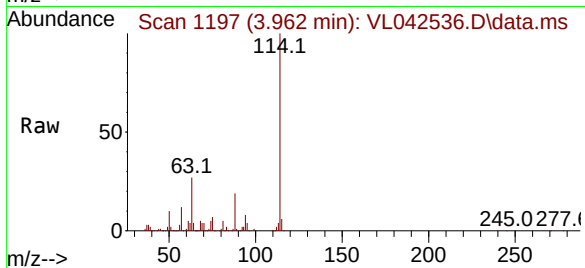
Tgt Ion:114 Resp: 346885

Ion Ratio Lower Upper

114 100

63 25.6 20.4 30.6

88 18.0 14.5 21.7



#34

2-Butanone

Concen: 8.664 ppbv

RT: 2.557 min Scan# 763

Delta R.T. 0.010 min

Lab File: VL042536.D

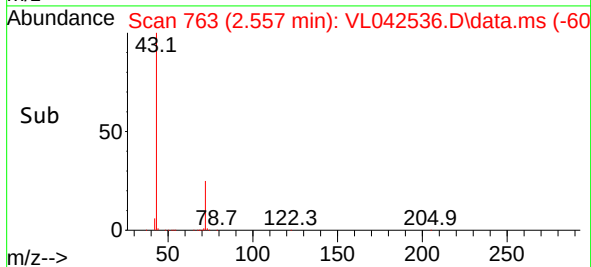
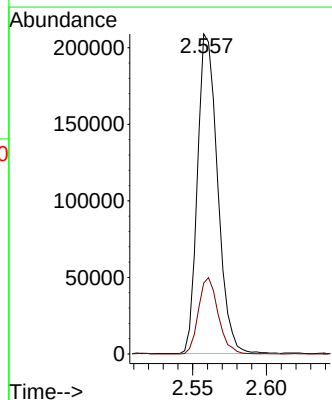
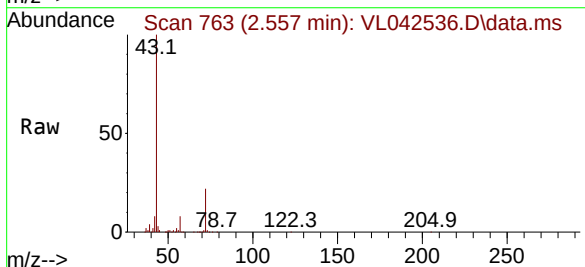
Acq: 14 May 2025 10:23

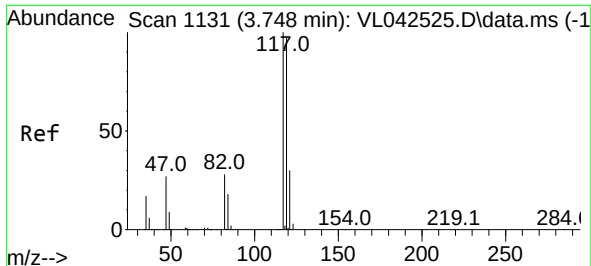
Tgt Ion: 43 Resp: 198101

Ion Ratio Lower Upper

43 100

72 23.5 18.7 28.1

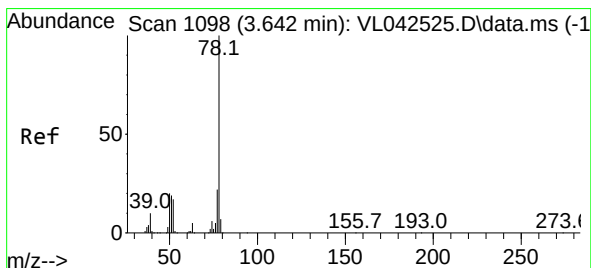
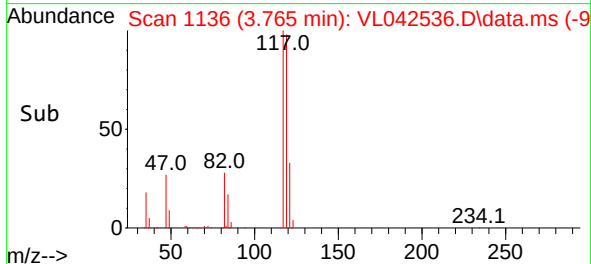
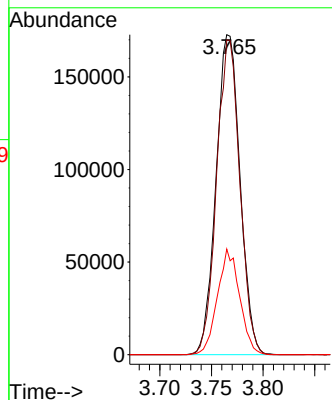
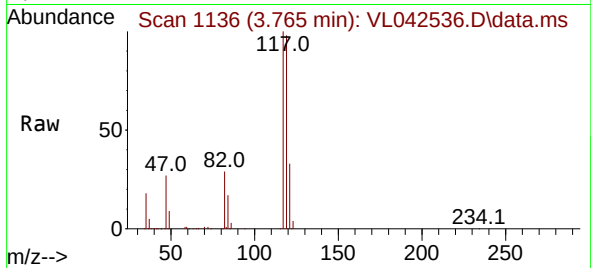




#35
Carbon Tetrachloride
Concen: 8.947 ppbv
RT: 3.765 min Scan# 1131
Delta R.T. 0.016 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

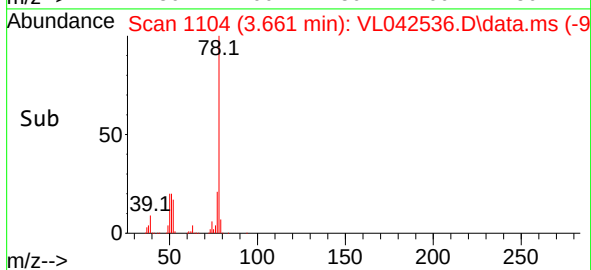
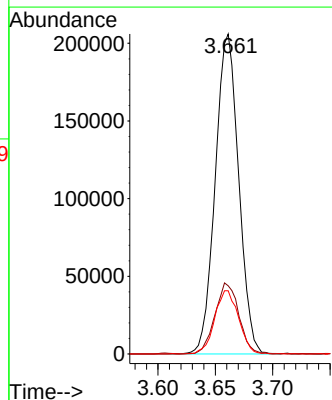
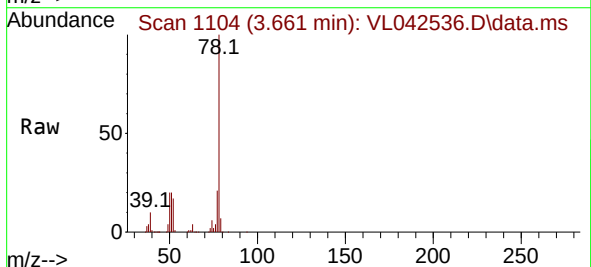
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

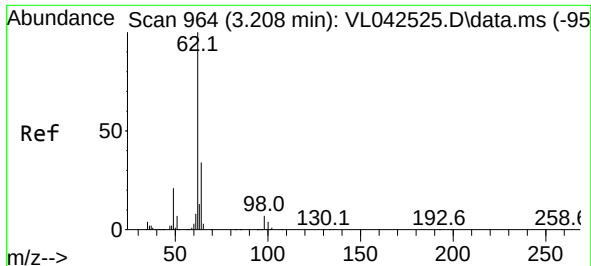
Tgt Ion:117 Resp: 279020
Ion Ratio Lower Upper
117 100
119 98.4 77.7 116.5
121 33.0 24.0 36.0



#36
Benzene
Concen: 9.521 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. 0.020 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

Tgt Ion: 78 Resp: 292705
Ion Ratio Lower Upper
78 100
77 21.3 17.4 26.2
50 19.7 16.3 24.5





#37

1,2-Dichloroethane

Concen: 8.885 ppbv

RT: 3.221 min Scan# 9

Delta R.T. 0.013 min

Lab File: VL042536.D

Acq: 14 May 2025 10:23

Instrument :

MSVOA_1

ClientSampleId :

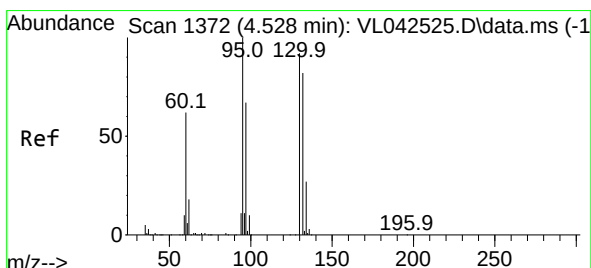
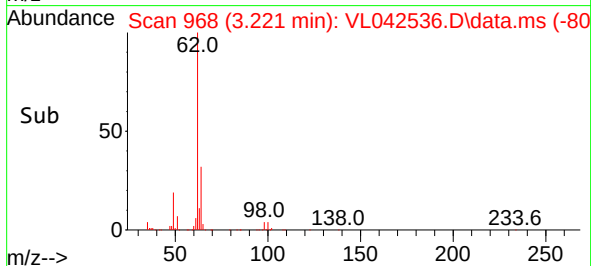
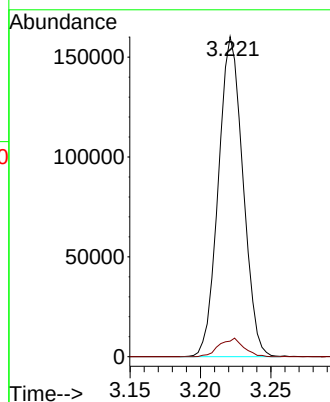
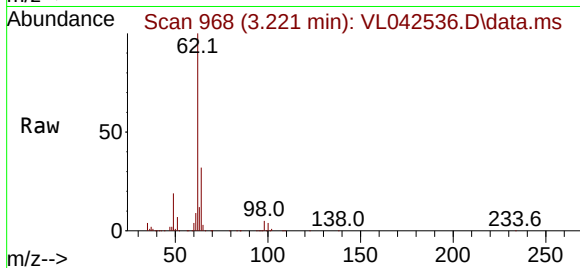
VSTDCCC010

Tgt Ion: 62 Resp: 194846

Ion Ratio Lower Upper

62 100

98 5.7 5.0 7.4



#38

Trichloroethene

Concen: 9.092 ppbv

RT: 4.551 min Scan# 1379

Delta R.T. 0.023 min

Lab File: VL042536.D

Acq: 14 May 2025 10:23

Tgt Ion:130 Resp: 121523

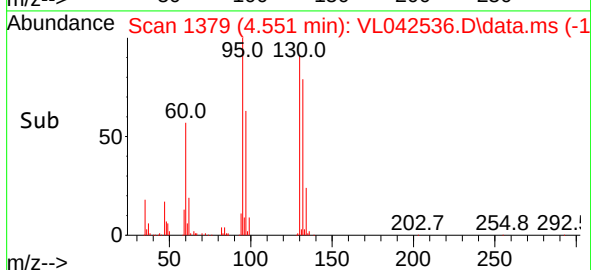
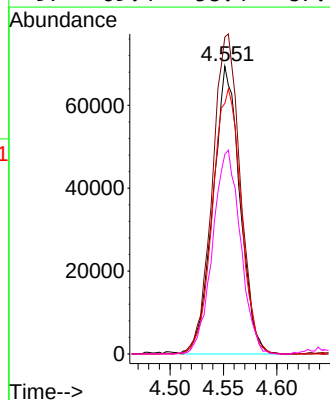
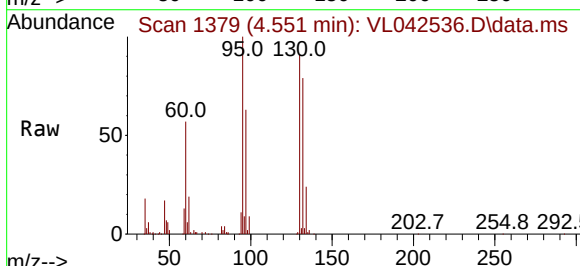
Ion Ratio Lower Upper

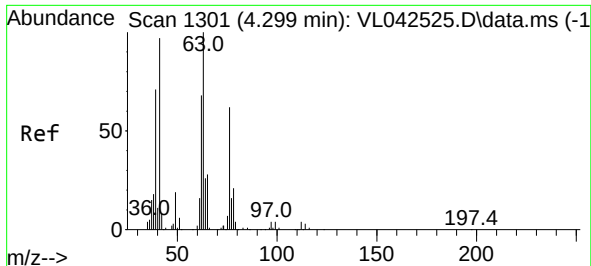
130 100

95 110.0 87.0 130.4

132 87.1 71.1 106.7

97 69.4 58.4 87.6





#39

1,2-Dichloropropane

Concen: 8.967 ppbv

RT: 4.318 min Scan# 1

Delta R.T. 0.020 min

Lab File: VL042536.D

Acq: 14 May 2025 10:23

Instrument :

MSVOA_1

ClientSampleId :

VSTDCCC010

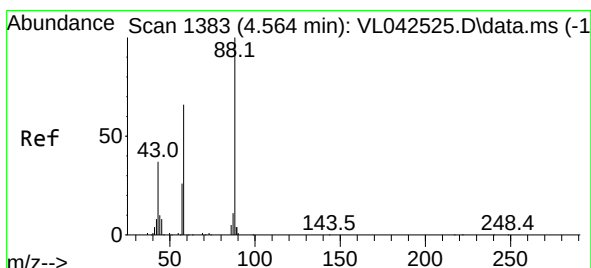
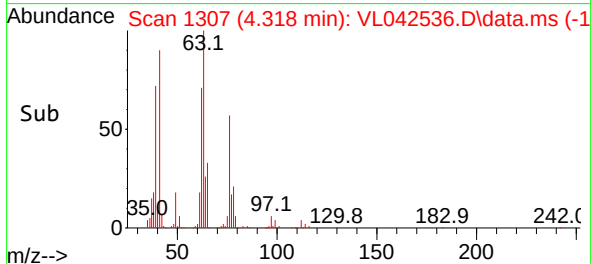
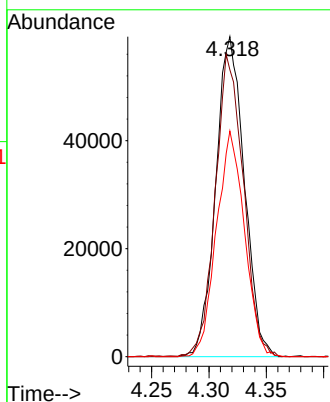
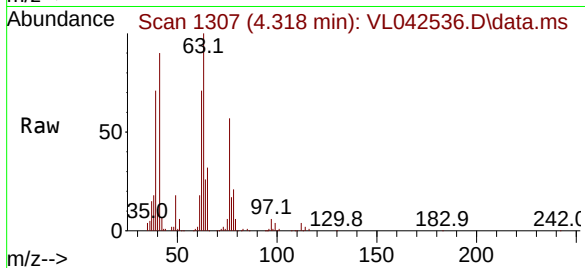
Tgt Ion: 63 Resp: 102683

Ion Ratio Lower Upper

63 100

41 89.5 77.5 116.3

62 70.5 54.6 82.0



#40

1,4-Dioxane

Concen: 9.810 ppbv

RT: 4.584 min Scan# 1389

Delta R.T. 0.020 min

Lab File: VL042536.D

Acq: 14 May 2025 10:23

Tgt Ion: 88 Resp: 45600

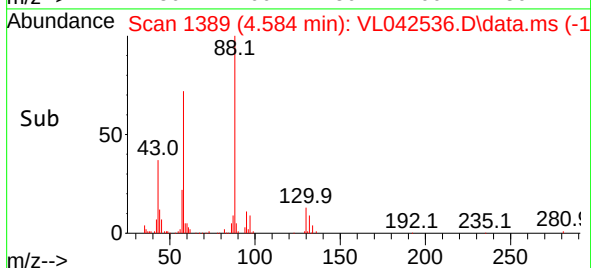
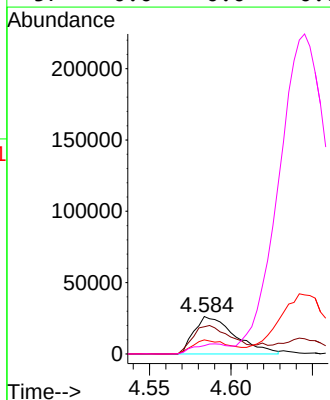
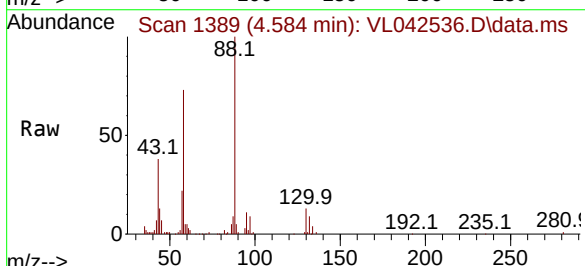
Ion Ratio Lower Upper

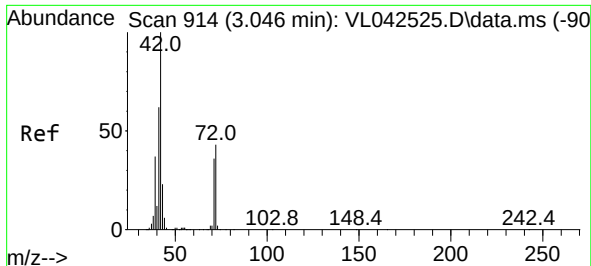
88 100

58 85.2 58.2 87.2

43 34.2 27.9 41.9

57 0.0 0.0 0.0

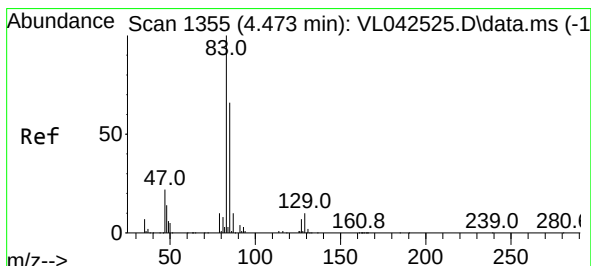
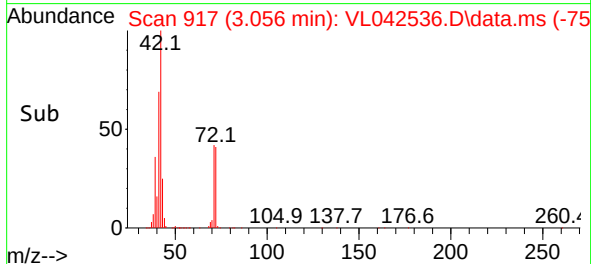
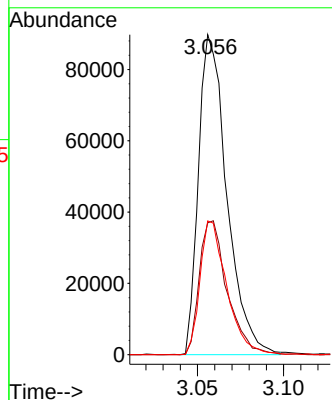
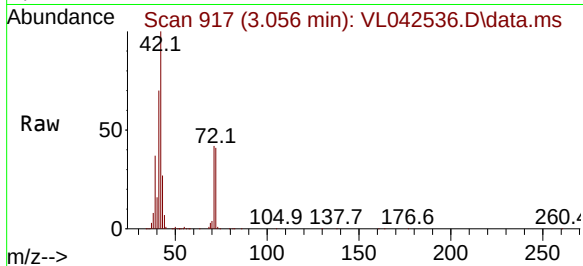




#41
Tetrahydrofuran
Concen: 10.412 ppbv
RT: 3.056 min Scan# 914
Delta R.T. 0.010 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

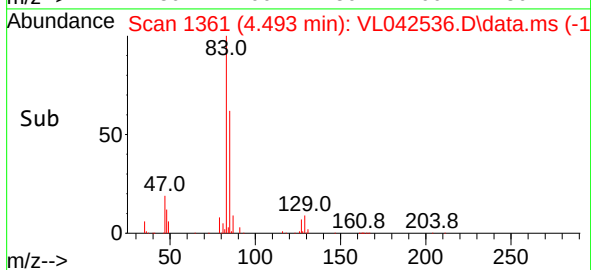
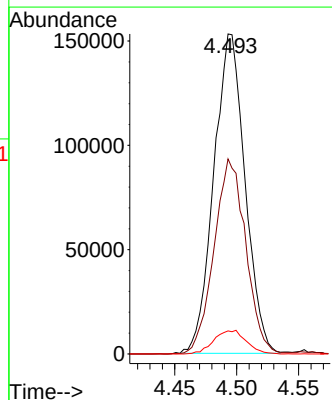
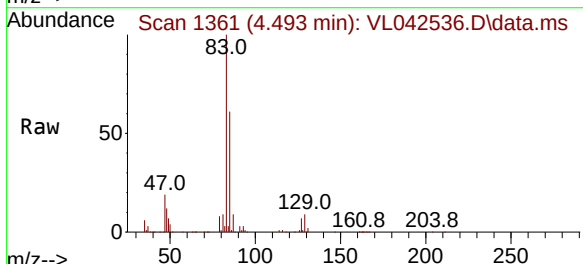
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

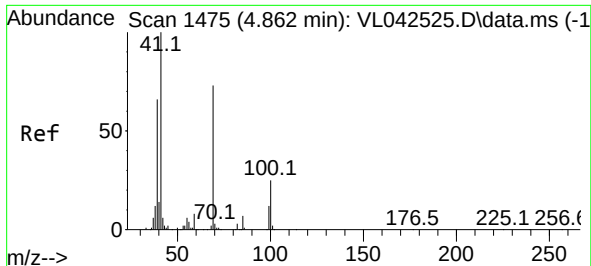
Tgt Ion: 42 Resp: 103053
Ion Ratio Lower Upper
42 100
72 41.0 32.7 49.1
71 39.6 30.4 45.6



#42
Bromodichloromethane
Concen: 9.183 ppbv
RT: 4.493 min Scan# 1361
Delta R.T. 0.020 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

Tgt Ion: 83 Resp: 268737
Ion Ratio Lower Upper
83 100
85 61.0 52.6 79.0
127 7.2 6.0 9.0

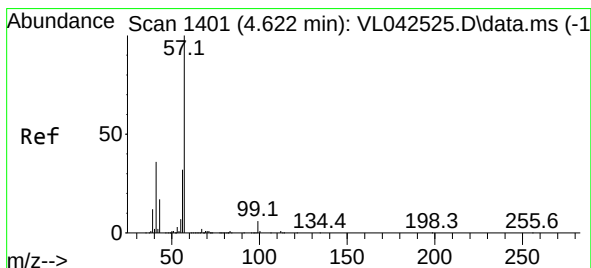
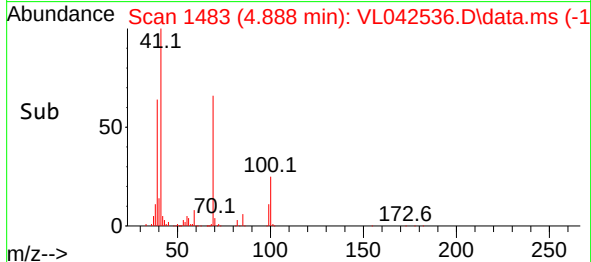
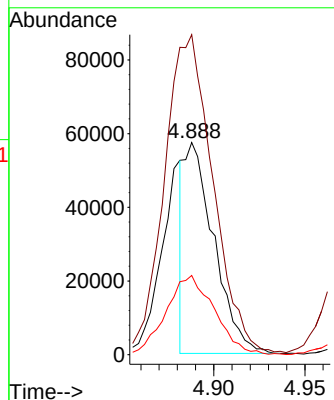
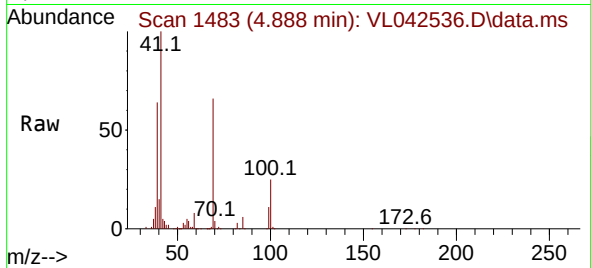




#43
Methyl Methacrylate
Concen: 6.265 ppbv
RT: 4.888 min Scan# 1483
Delta R.T. 0.026 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

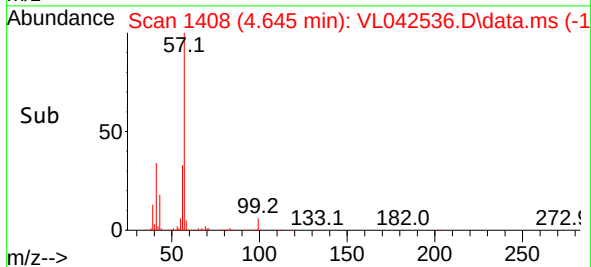
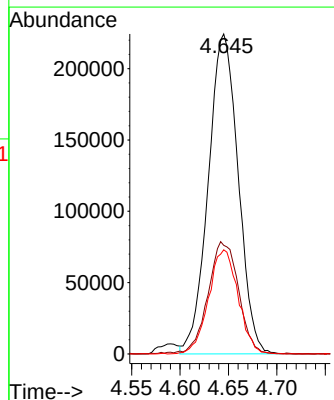
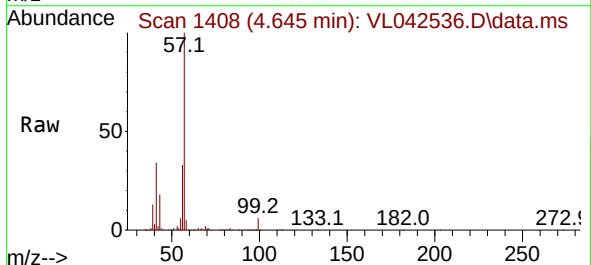
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

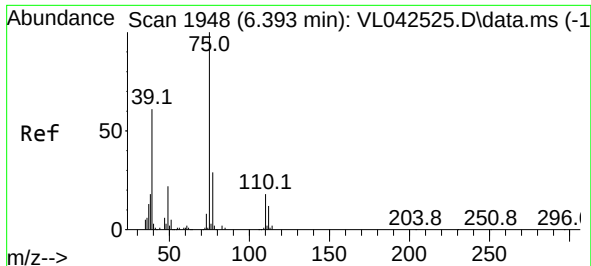
Tgt Ion: 69 Resp: 64497
Ion Ratio Lower Upper
69 100
41 250.9 119.9 179.9#
100 61.7 28.4 42.6#



#44
2,2,4-Trimethylpentane
Concen: 9.900 ppbv
RT: 4.645 min Scan# 1408
Delta R.T. 0.023 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

Tgt Ion: 57 Resp: 482249
Ion Ratio Lower Upper
57 100
41 36.2 28.3 42.5
56 32.2 25.9 38.9

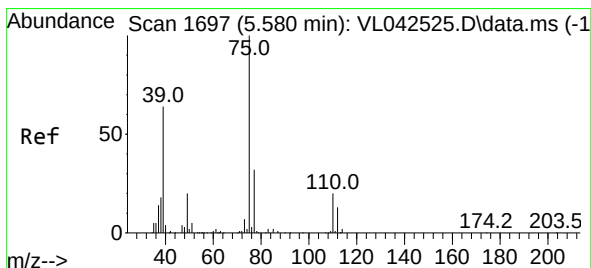
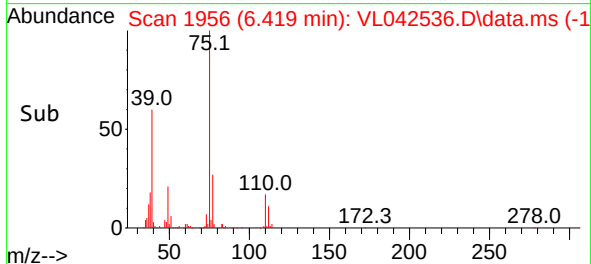
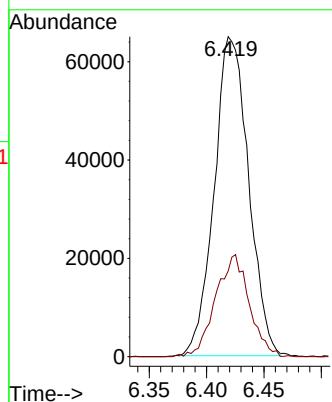
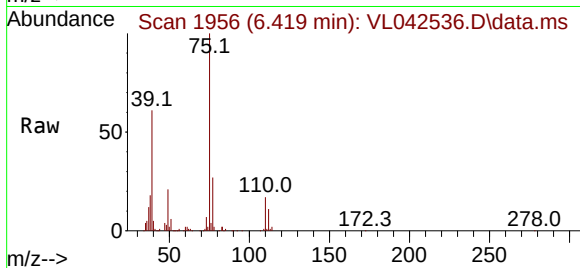




#45
 t-1,3-Dichloropropene
 Concen: 10.271 ppbv
 RT: 6.419 min Scan# 1948
 Delta R.T. 0.026 min
 Lab File: VL042536.D
 Acq: 14 May 2025 10:23

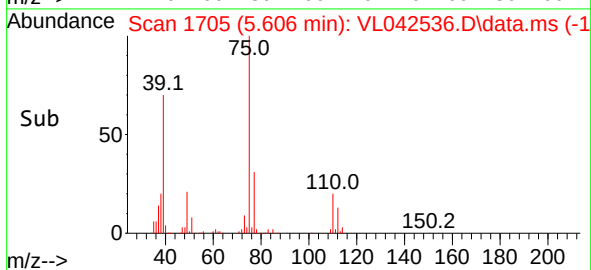
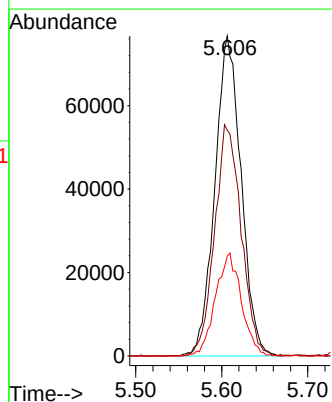
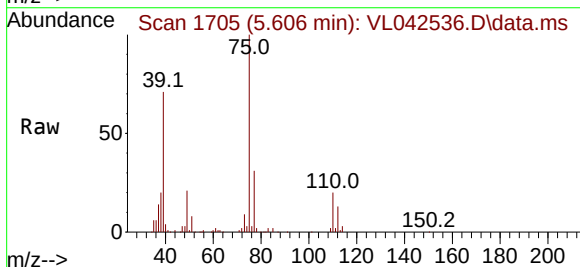
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

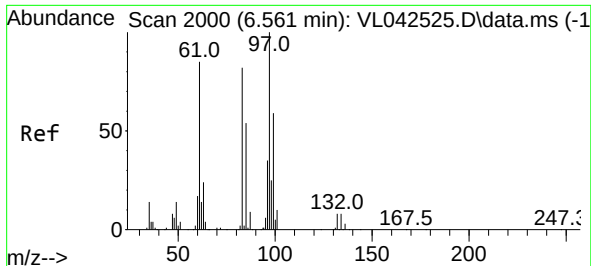
Tgt Ion: 75 Resp: 135101
 Ion Ratio Lower Upper
 75 100
 77 26.8 23.3 34.9



#46
 cis-1,3-Dichloropropene
 Concen: 10.268 ppbv
 RT: 5.606 min Scan# 1705
 Delta R.T. 0.026 min
 Lab File: VL042536.D
 Acq: 14 May 2025 10:23

Tgt Ion: 75 Resp: 162473
 Ion Ratio Lower Upper
 75 100
 39 70.5 51.2 76.8
 77 31.2 25.4 38.0

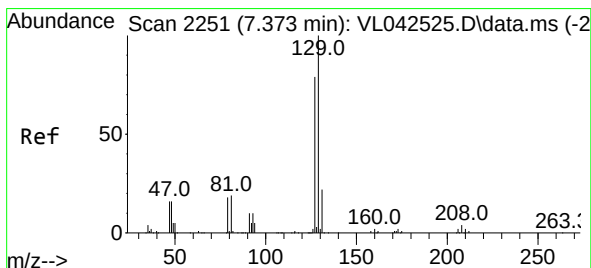
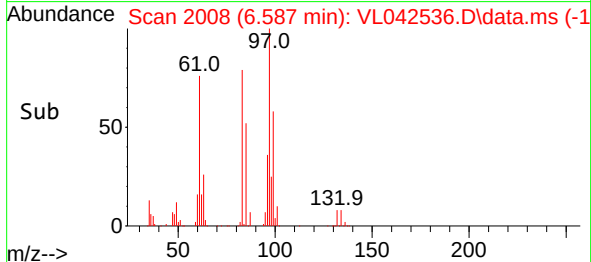
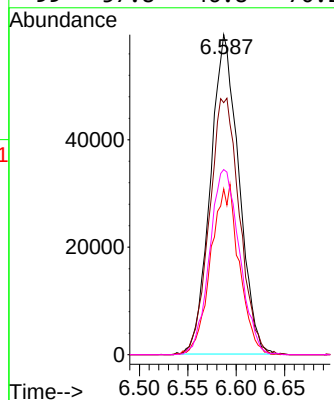
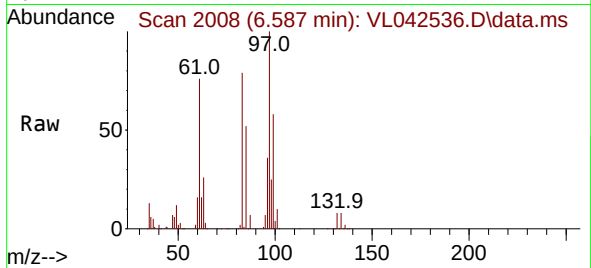




#47
1,1,2-Trichloroethane
Concen: 8.999 ppbv
RT: 6.587 min Scan# 2008
Delta R.T. 0.026 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

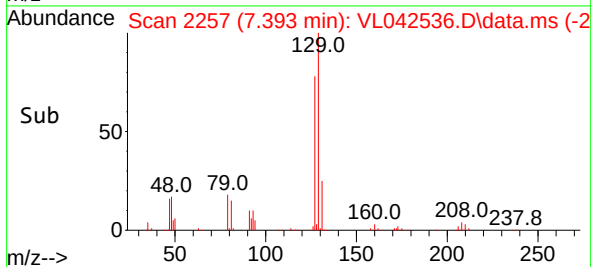
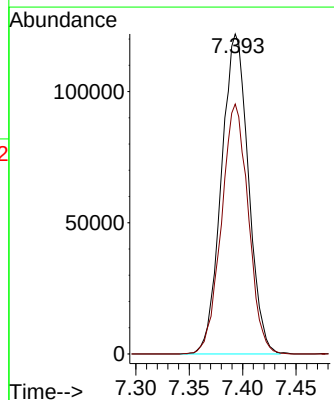
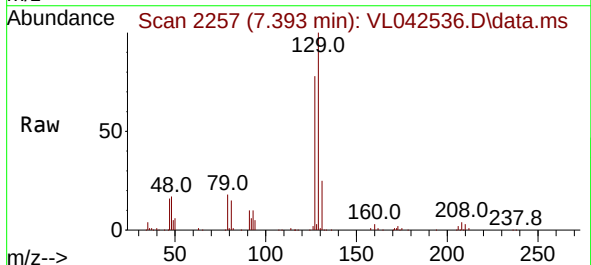
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

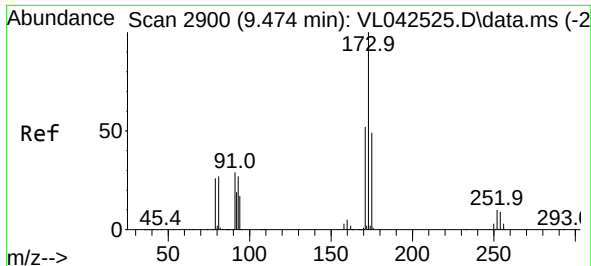
Tgt Ion: 97	Resp: 121339
Ion Ratio	Lower Upper
97 100	
83 78.6	66.0 99.0
85 51.9	42.8 64.2
99 57.8	46.8 70.2



#48
Dibromochloromethane
Concen: 9.523 ppbv
RT: 7.393 min Scan# 2257
Delta R.T. 0.020 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

Tgt Ion:129	Resp: 214390
Ion Ratio	Lower Upper
129 100	
127 77.8	39.6 118.8

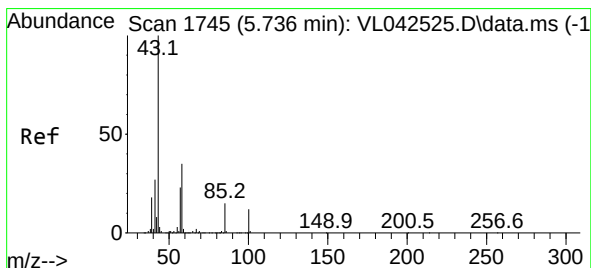
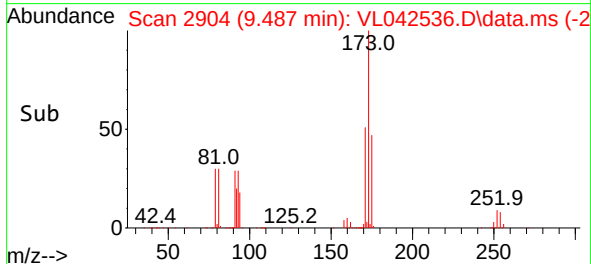
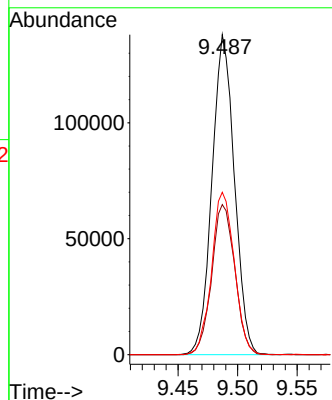
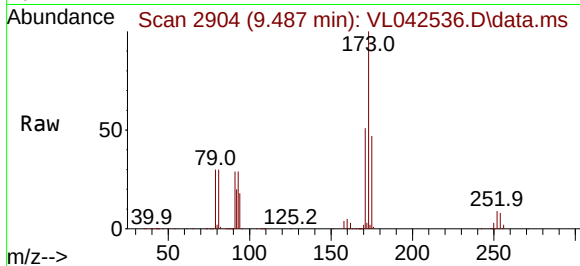




#49
Bromoform
Concen: 9.790 ppbv
RT: 9.487 min Scan# 2904
Delta R.T. 0.013 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

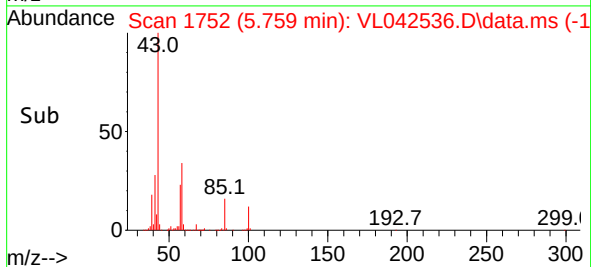
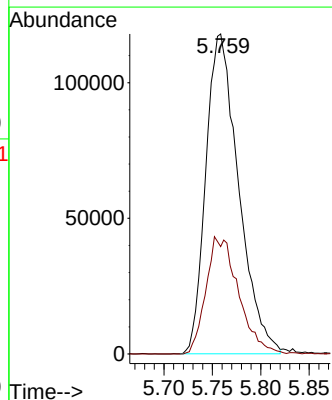
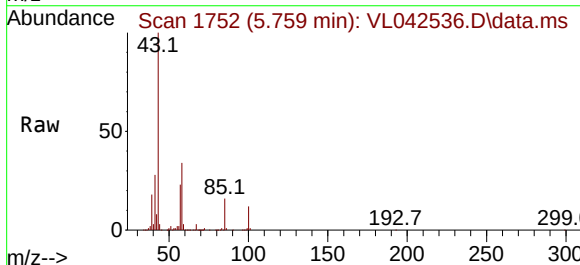
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

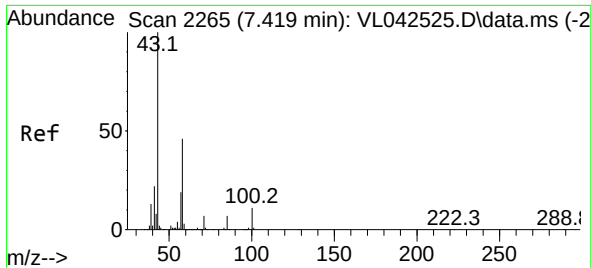
Tgt Ion:173 Resp: 180872
Ion Ratio Lower Upper
173 100
175 48.3 39.1 58.7
171 51.5 41.8 62.8



#50
4-Methyl-2-Pentanone
Concen: 10.326 ppbv
RT: 5.759 min Scan# 1752
Delta R.T. 0.023 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

Tgt Ion: 43 Resp: 277297
Ion Ratio Lower Upper
43 100
58 36.5 28.6 42.8

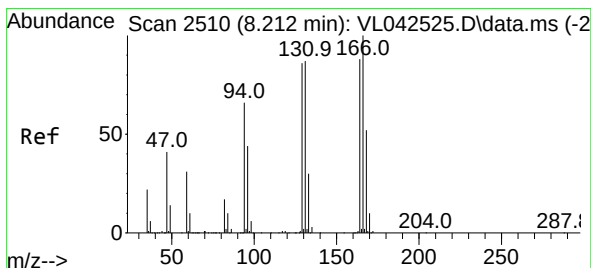
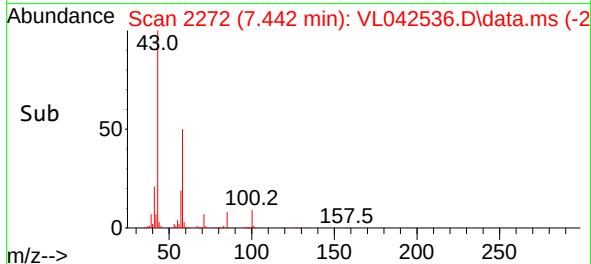
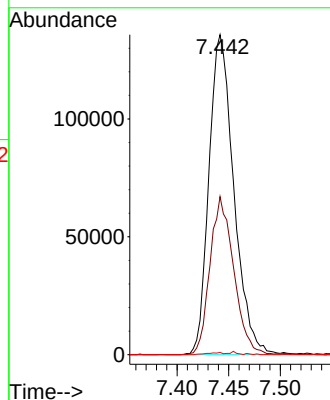
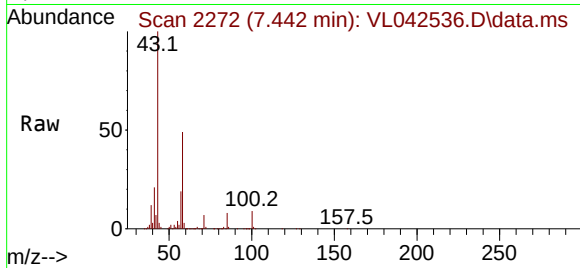




#51
2-Hexanone
Concen: 11.360 ppbv
RT: 7.442 min Scan# 21
Delta R.T. 0.023 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

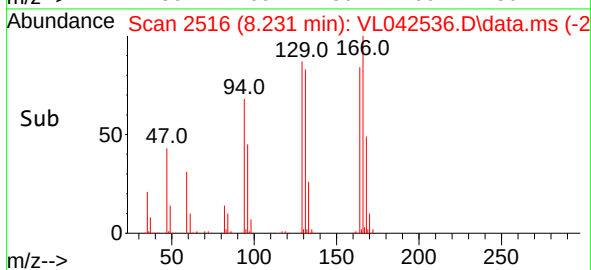
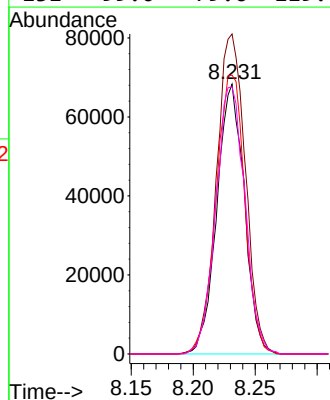
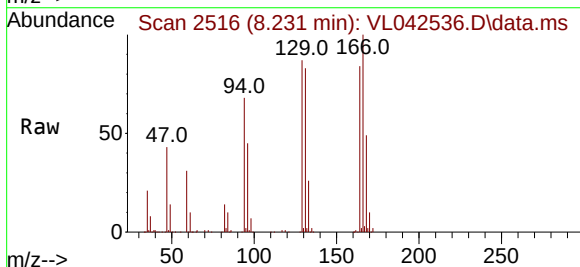
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

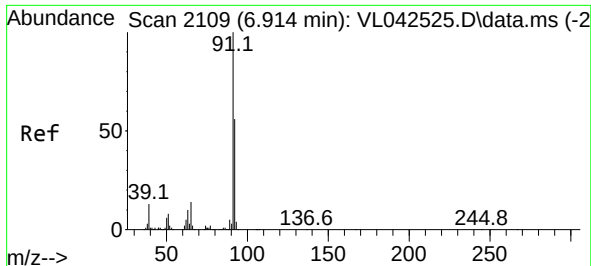
Tgt Ion: 43 Resp: 226925
Ion Ratio Lower Upper
43 100
58 47.4 37.5 56.3
98 0.8 0.9 1.3#



#52
Tetrachloroethene
Concen: 8.964 ppbv
RT: 8.231 min Scan# 2516
Delta R.T. 0.020 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

Tgt Ion: 164 Resp: 105432
Ion Ratio Lower Upper
164 100
166 118.6 91.3 136.9
129 103.4 78.9 118.3
131 99.0 79.6 119.4

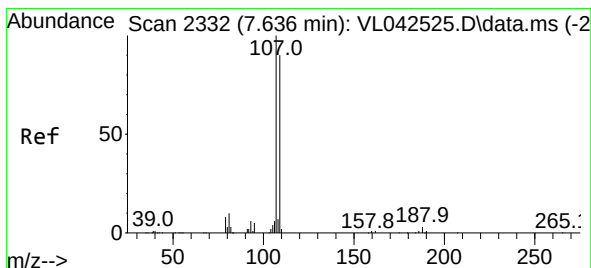
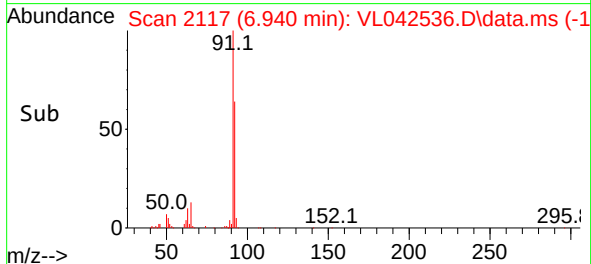
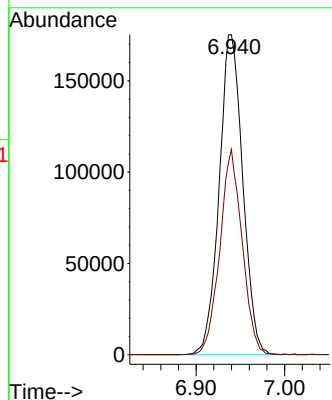
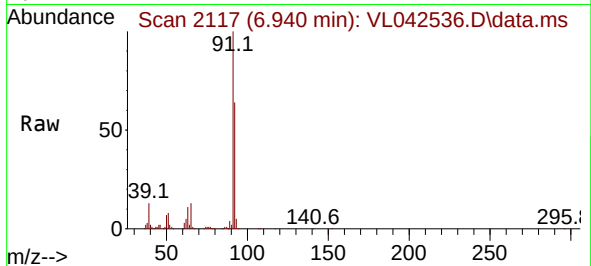




#53
Toluene
Concen: 10.761 ppbv
RT: 6.940 min Scan# 2109
Delta R.T. 0.026 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

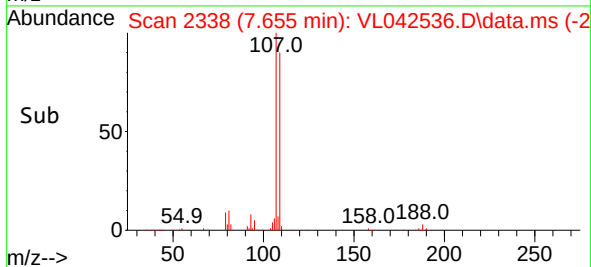
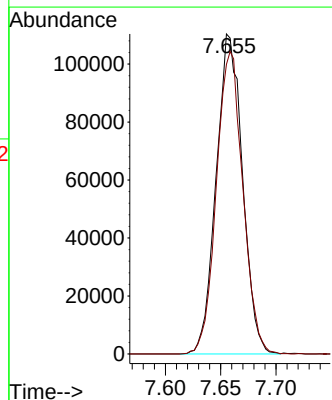
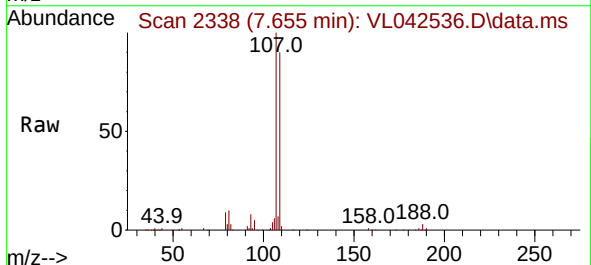
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

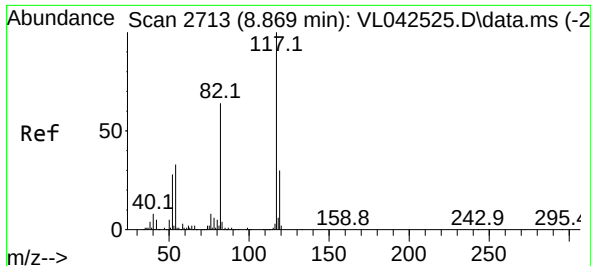
Tgt Ion: 91 Resp: 324628
Ion Ratio Lower Upper
91 100
92 60.7 47.8 71.6



#54
1,2-Dibromoethane
Concen: 9.275 ppbv
RT: 7.655 min Scan# 2338
Delta R.T. 0.020 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

Tgt Ion: 107 Resp: 182645
Ion Ratio Lower Upper
107 100
109 90.5 72.2 108.4

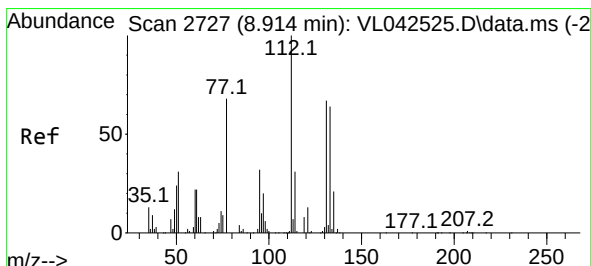
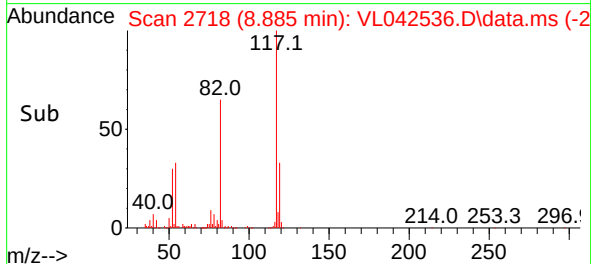
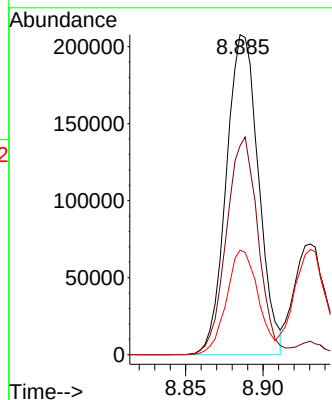
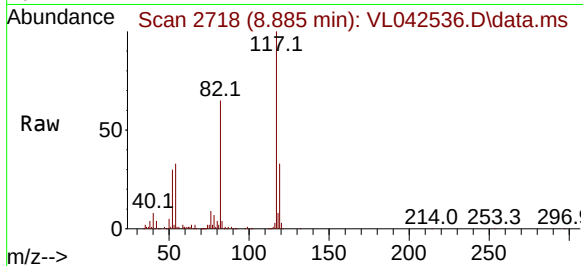




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 21
Delta R.T. 0.016 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

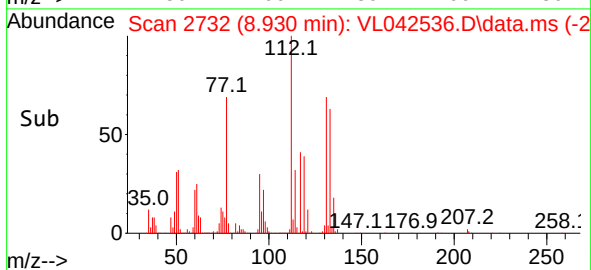
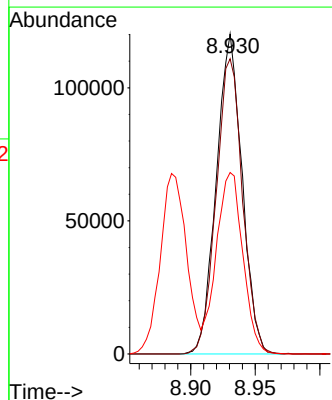
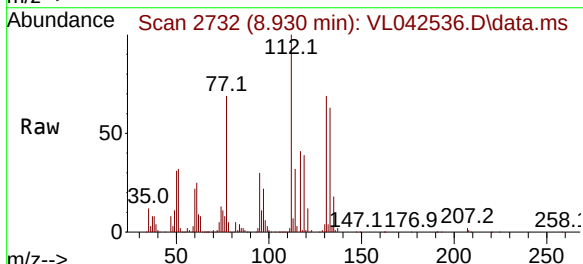
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

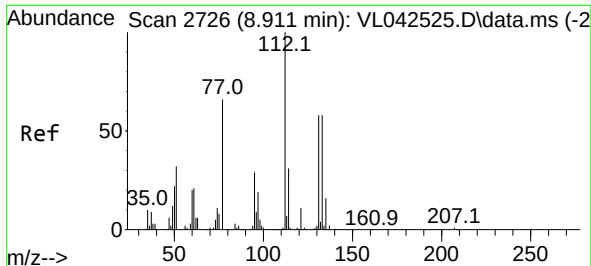
Tgt Ion:117 Resp: 301246
Ion Ratio Lower Upper
117 100
82 70.2 55.0 82.4
119 32.1 25.8 38.6



#56
1,1,1,2-Tetrachloroethane
Concen: 8.904 ppbv
RT: 8.930 min Scan# 2732
Delta R.T. 0.016 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

Tgt Ion:131 Resp: 166298
Ion Ratio Lower Upper
131 100
133 94.7 77.4 116.2
119 59.8 49.0 73.4

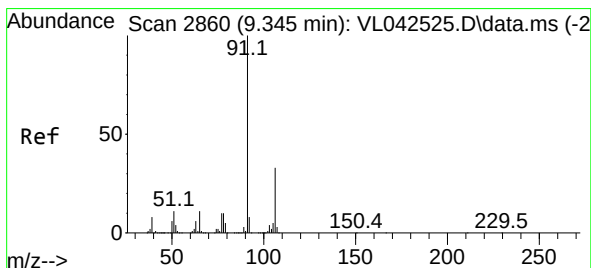
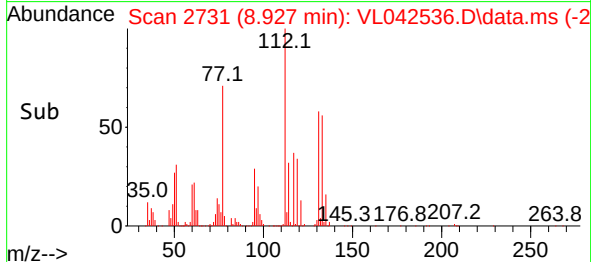
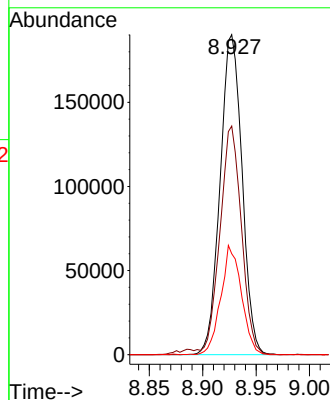
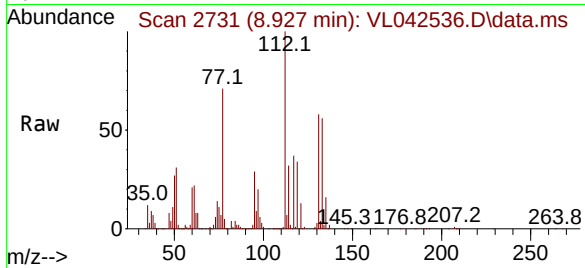




#57
Chlorobenzene
Concen: 8.989 ppbv
RT: 8.927 min Scan# 21
Delta R.T. 0.016 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

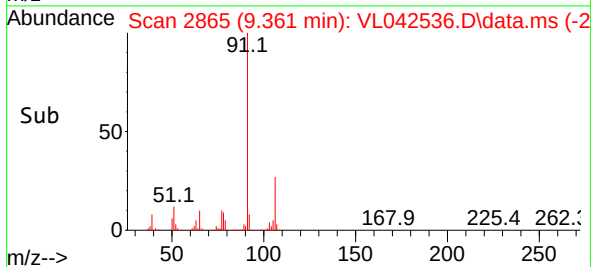
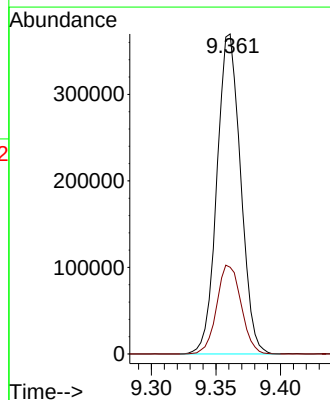
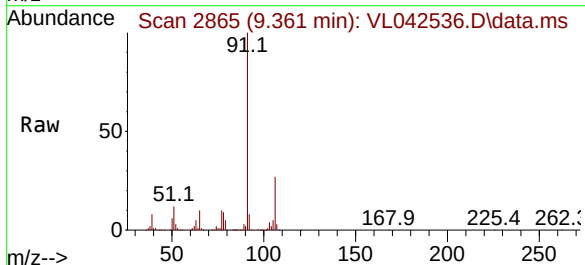
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

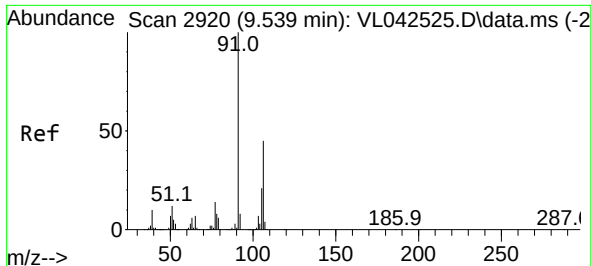
Tgt Ion:112 Resp: 271874
Ion Ratio Lower Upper
112 100
77 71.5 53.6 80.4
114 31.6 28.2 34.4



#58
Ethyl Benzene
Concen: 11.466 ppbv
RT: 9.361 min Scan# 2865
Delta R.T. 0.016 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

Tgt Ion: 91 Resp: 470778
Ion Ratio Lower Upper
91 100
106 27.1 26.0 39.0





#59

m/p-Xylene

Concen: 10.864 ppbv

RT: 9.558 min Scan# 29

Delta R.T. 0.020 min

Lab File: VL042536.D

Acq: 14 May 2025 10:23

Instrument :

MSVOA_L

ClientSampleId :

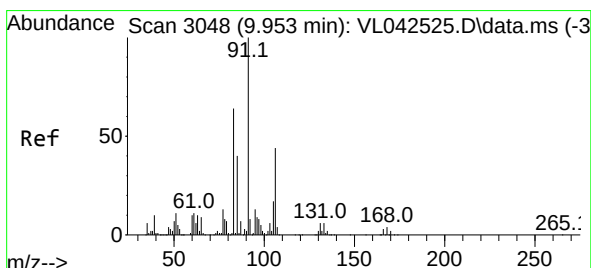
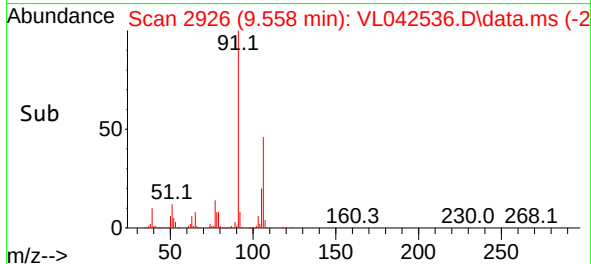
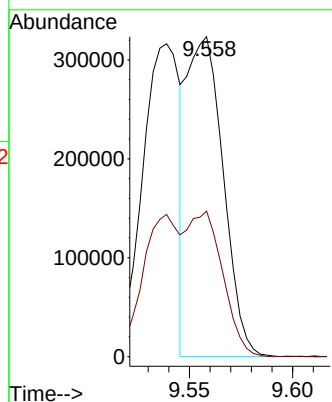
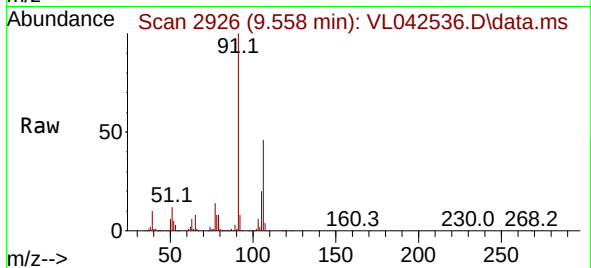
VSTDCCC010

Tgt Ion: 91 Resp: 396174

Ion Ratio Lower Upper

91 100

106 90.2 0.0 0.0#



#60

o-Xylene

Concen: 11.253 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. 0.013 min

Lab File: VL042536.D

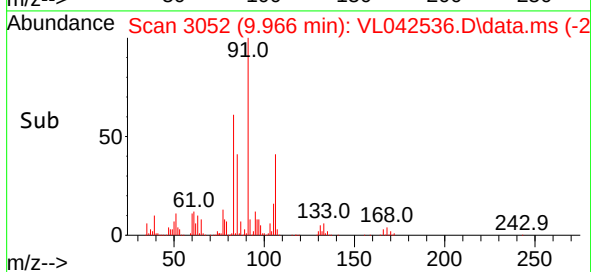
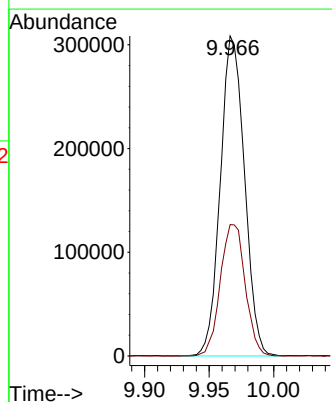
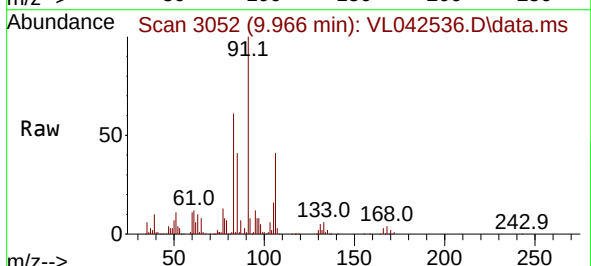
Acq: 14 May 2025 10:23

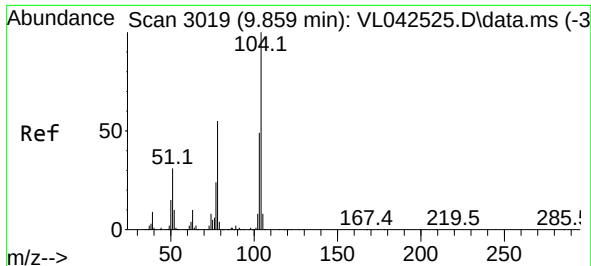
Tgt Ion: 91 Resp: 400752

Ion Ratio Lower Upper

91 100

106 42.4 21.6 64.6

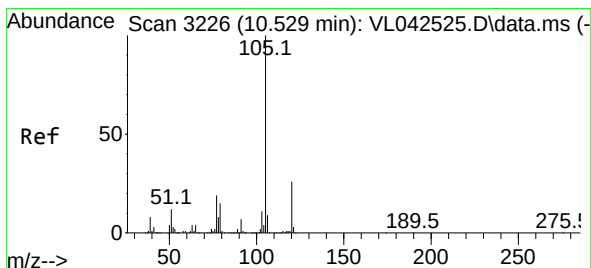
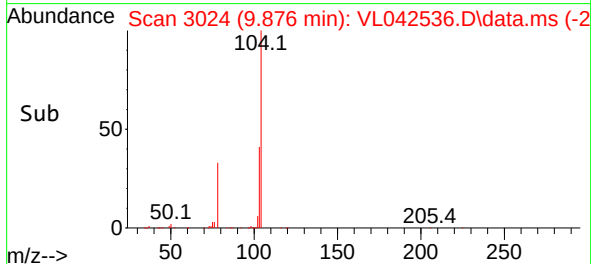
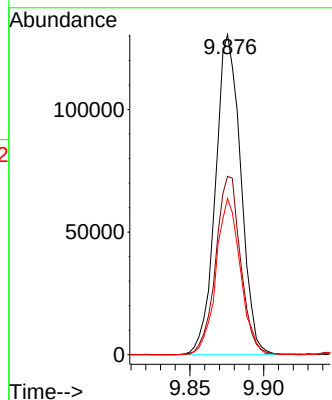
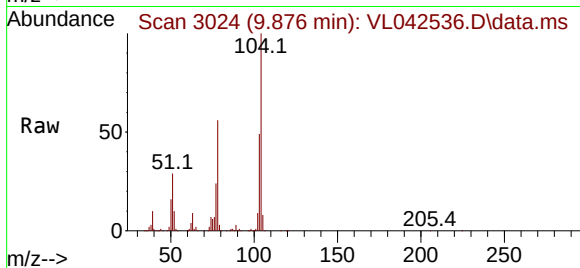




#61
Styrene
Concen: 11.809 ppbv
RT: 9.876 min Scan# 3019
Delta R.T. 0.016 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

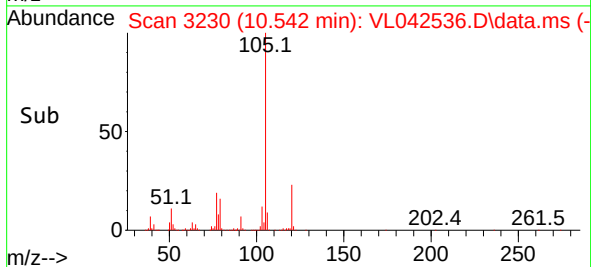
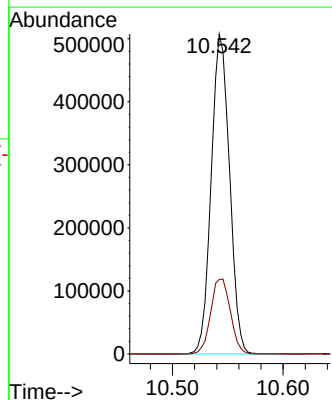
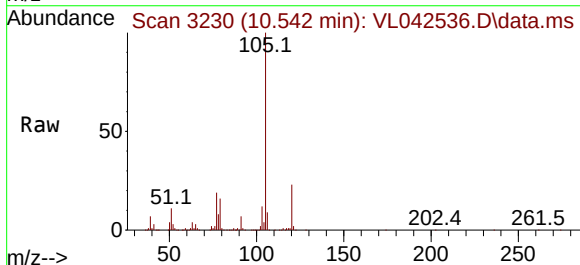
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

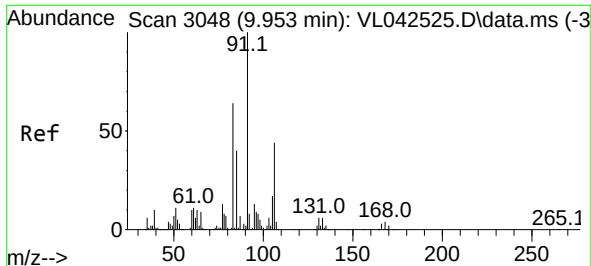
Tgt Ion:104 Resp: 155757
Ion Ratio Lower Upper
104 100
78 54.9 44.7 67.1
103 47.2 38.6 58.0



#62
Isopropylbenzene
Concen: 10.866 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. 0.013 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

Tgt Ion:105 Resp: 582836
Ion Ratio Lower Upper
105 100
120 25.2 20.1 30.1

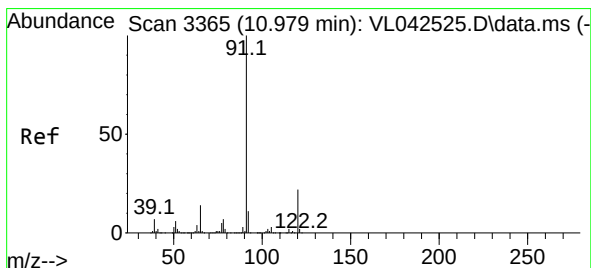
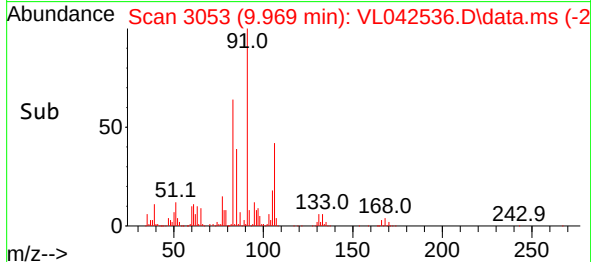
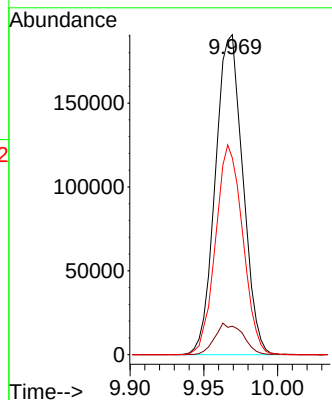
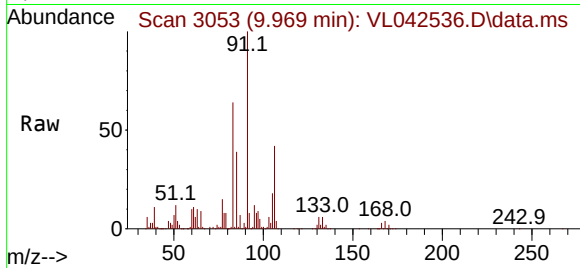




#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.570 ppbv
 RT: 9.969 min Scan# 3048
 Delta R.T. 0.016 min
 Lab File: VL042536.D
 Acq: 14 May 2025 10:23

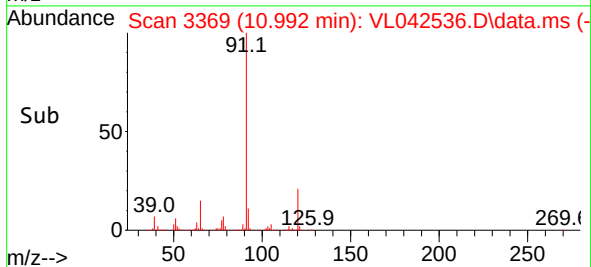
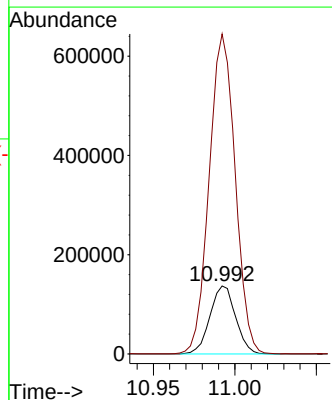
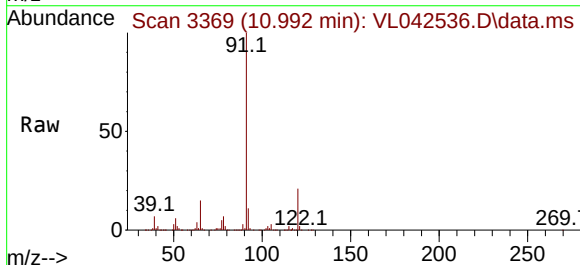
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

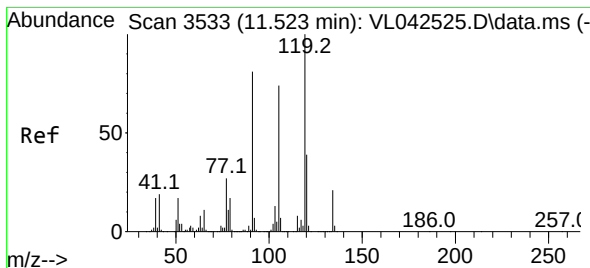
Tgt Ion: 83 Resp: 247714
 Ion Ratio Lower Upper
 83 100
 131 10.0 4.9 14.7
 85 64.8 32.3 96.8



#64
 n-propylbenzene
 Concen: 10.978 ppbv
 RT: 10.992 min Scan# 3369
 Delta R.T. 0.013 min
 Lab File: VL042536.D
 Acq: 14 May 2025 10:23

Tgt Ion: 120 Resp: 149494
 Ion Ratio Lower Upper
 120 100
 91 479.1 377.7 566.5

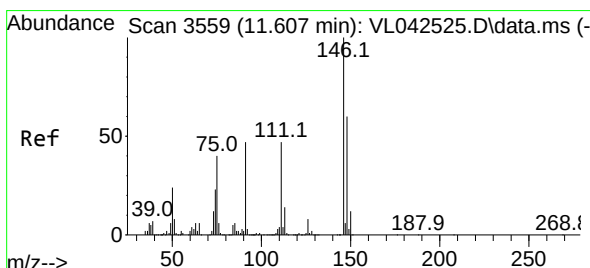
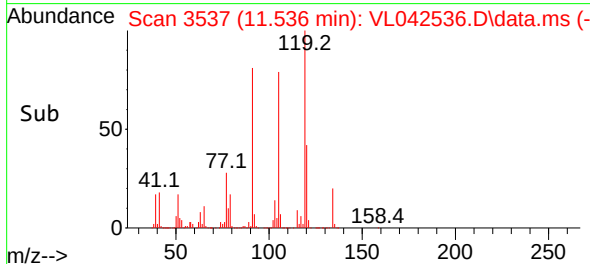
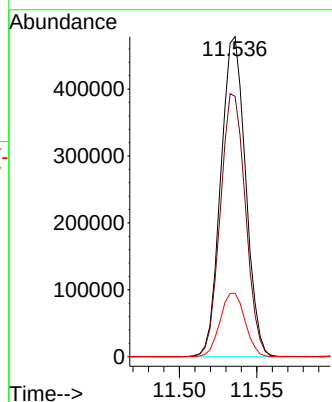
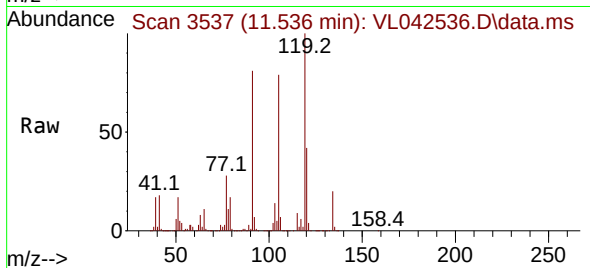




#65
 tert-Butylbenzene
 Concen: 10.790 ppbv
 RT: 11.536 min Scan# 3537
 Delta R.T. 0.013 min
 Lab File: VL042536.D
 Acq: 14 May 2025 10:23

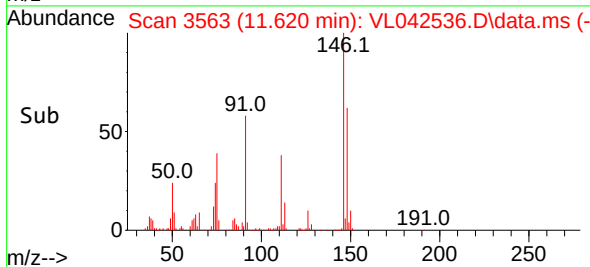
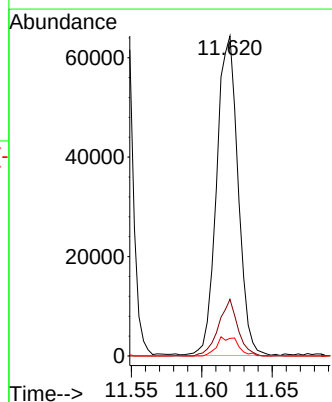
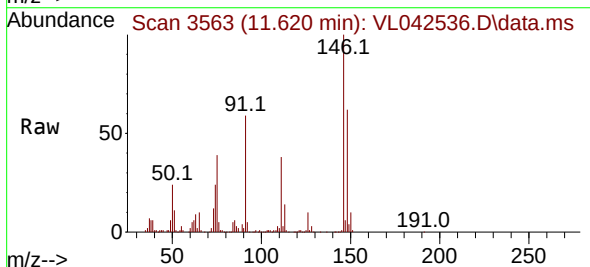
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

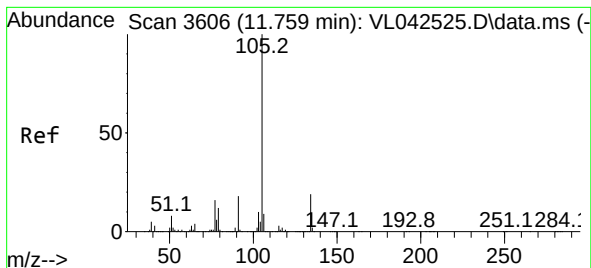
Tgt Ion:119 Resp: 531415
 Ion Ratio Lower Upper
 119 100
 91 83.5 66.6 99.8
 134 20.0 16.3 24.5



#66
 Benzyl Chloride
 Concen: 10.391 ppbv
 RT: 11.620 min Scan# 3563
 Delta R.T. 0.013 min
 Lab File: VL042536.D
 Acq: 14 May 2025 10:23

Tgt Ion: 91 Resp: 68005
 Ion Ratio Lower Upper
 91 100
 126 16.0 13.7 20.5
 128 6.1 4.2 6.2

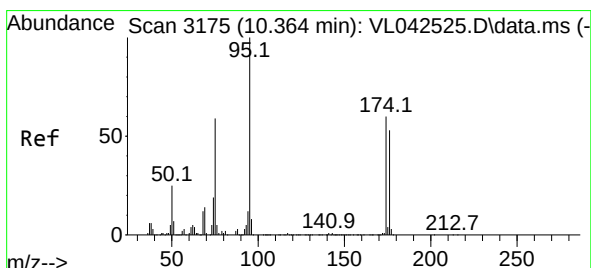
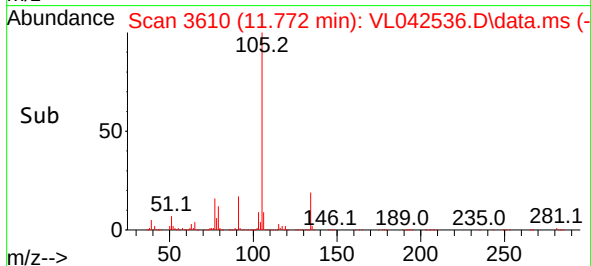
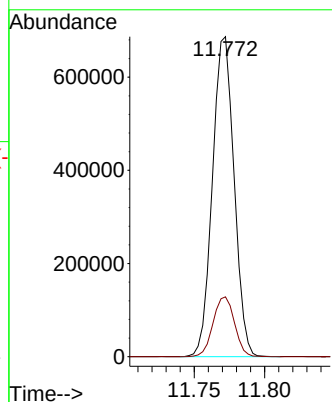
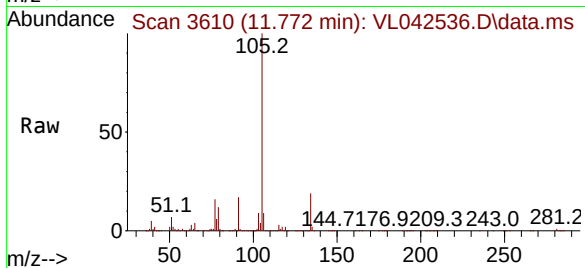




#67
 sec-Butylbenzene
 Concen: 10.390 ppbv
 RT: 11.772 min Scan# 3610
 Delta R.T. 0.013 min
 Lab File: VL042536.D
 Acq: 14 May 2025 10:23

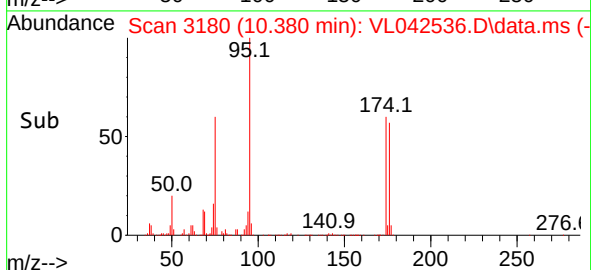
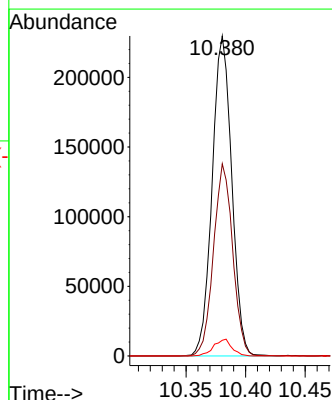
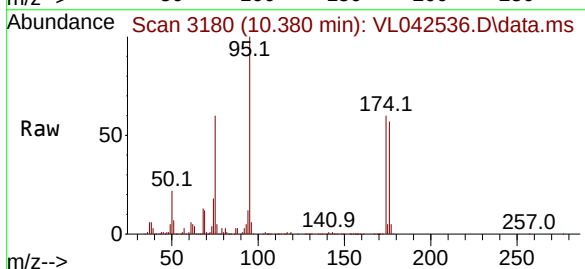
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010

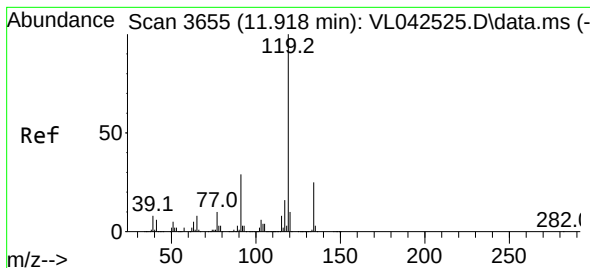
Tgt Ion:105 Resp: 733701
 Ion Ratio Lower Upper
 105 100
 134 18.6 14.9 22.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.012 ppbv
 RT: 10.380 min Scan# 3180
 Delta R.T. 0.016 min
 Lab File: VL042536.D
 Acq: 14 May 2025 10:23

Tgt Ion: 95 Resp: 262420
 Ion Ratio Lower Upper
 95 100
 174 58.9 48.0 72.0
 175 4.9 3.5 5.3

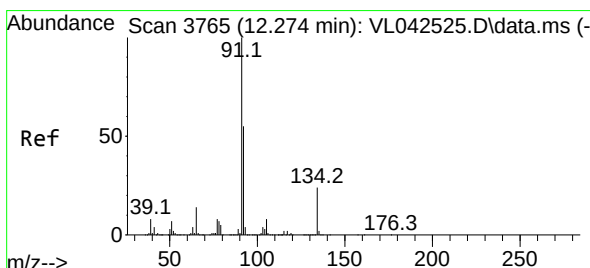
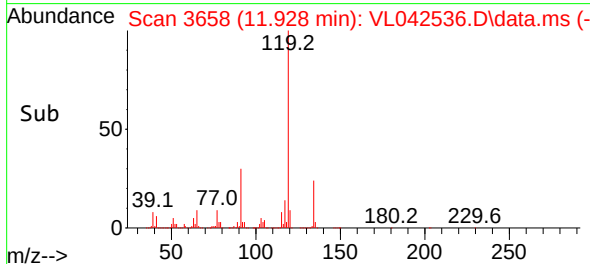
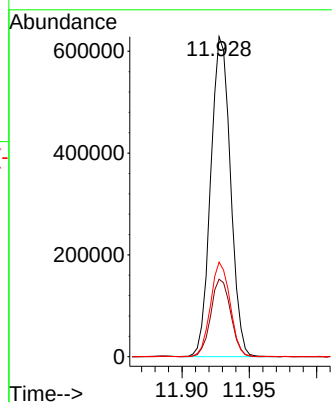
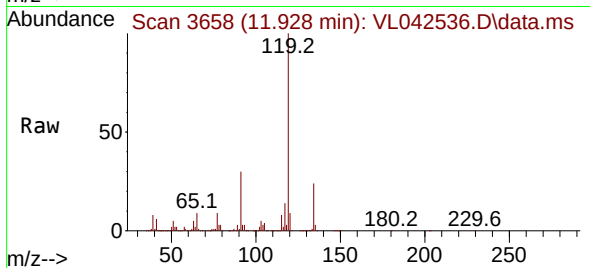




#69
p-Isopropyltoluene
Concen: 11.049 ppbv
RT: 11.928 min Scan# 3658
Delta R.T. 0.010 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

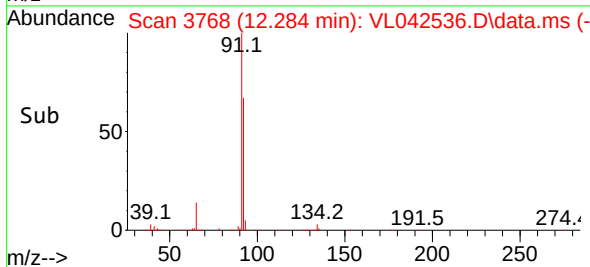
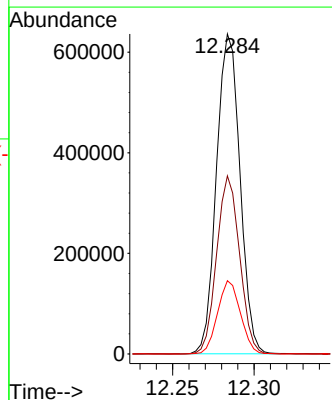
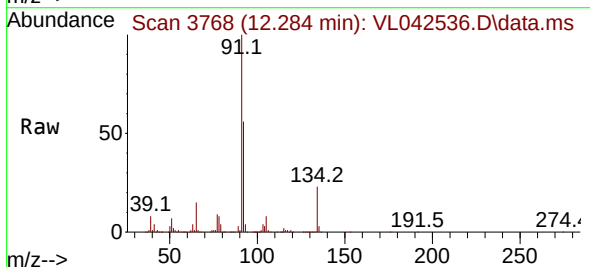
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

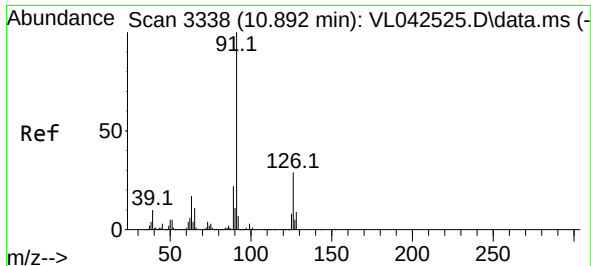
Tgt Ion:119 Resp: 641428
Ion Ratio Lower Upper
119 100
134 24.5 19.8 29.6
91 29.4 23.6 35.4



#70
n-Butylbenzene
Concen: 11.113 ppbv
RT: 12.284 min Scan# 3768
Delta R.T. 0.010 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

Tgt Ion: 91 Resp: 637479
Ion Ratio Lower Upper
91 100
92 54.4 43.7 65.5
134 22.3 18.9 28.3

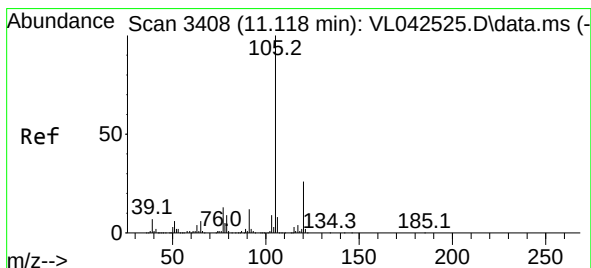
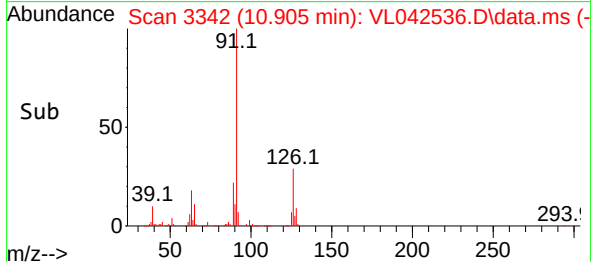
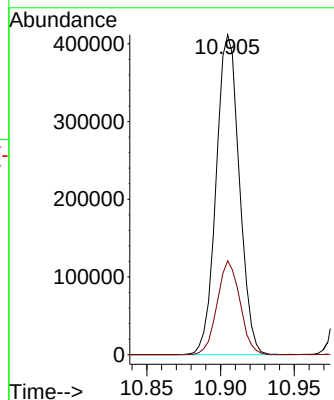
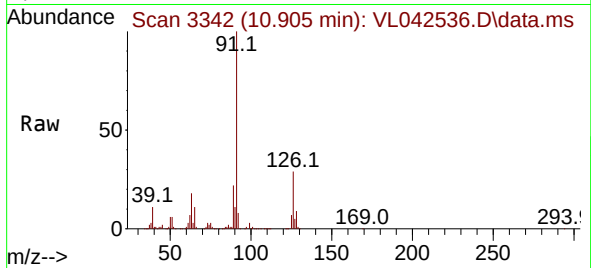




#71
2-Chlorotoluene
Concen: 11.075 ppbv
RT: 10.905 min Scan# 3111
Delta R.T. 0.013 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

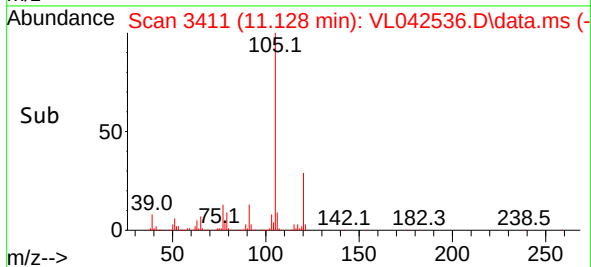
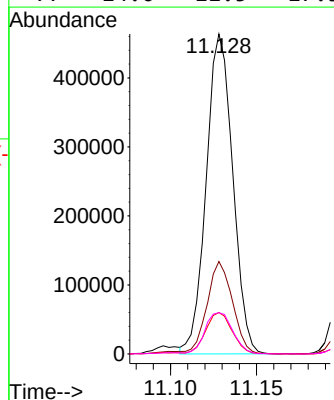
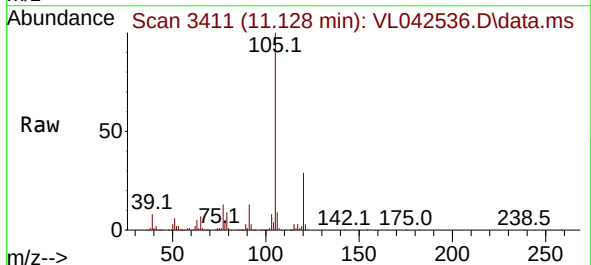
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

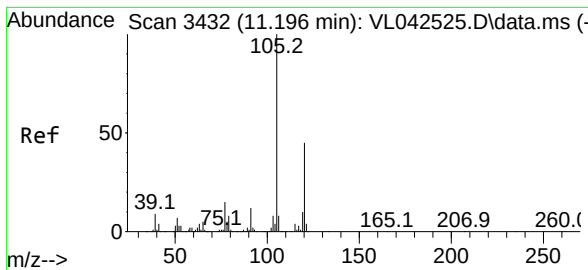
Tgt Ion: 91 Resp: 449790
Ion Ratio Lower Upper
91 100
126 28.8 11.4 45.6



#72
4-Ethyltoluene
Concen: 11.252 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.010 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

Tgt Ion: 105 Resp: 497072
Ion Ratio Lower Upper
105 100
120 28.5 22.9 34.3
91 13.4 10.9 16.3
77 14.0 11.5 17.3

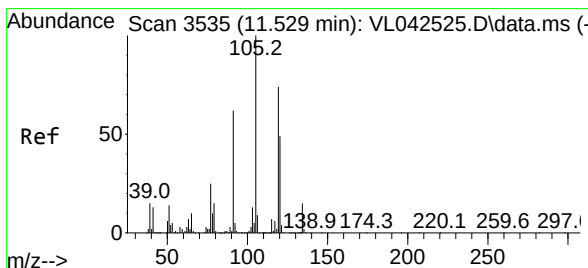
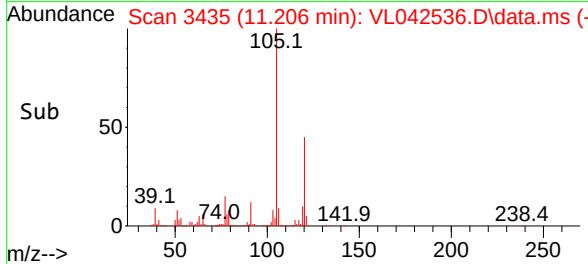
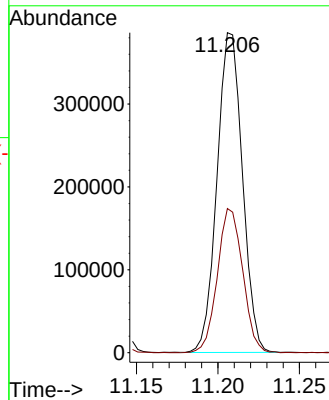
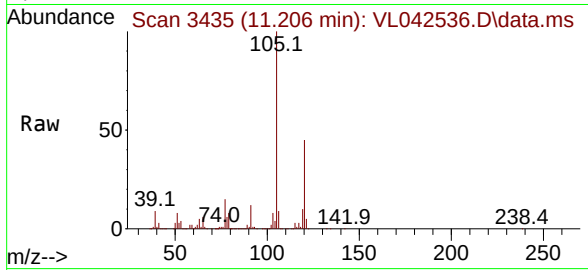




#73
 1,3,5-Trimethylbenzene
 Concen: 10.849 ppbv
 RT: 11.206 min Scan# 3435
 Delta R.T. 0.010 min
 Lab File: VL042536.D
 Acq: 14 May 2025 10:23

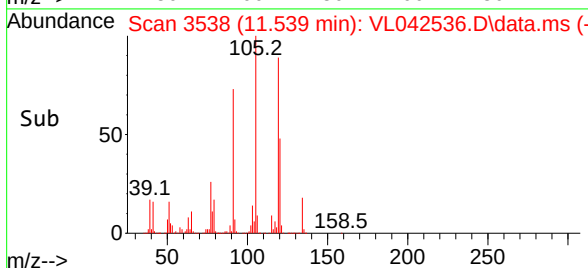
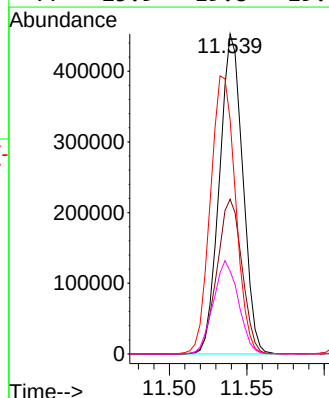
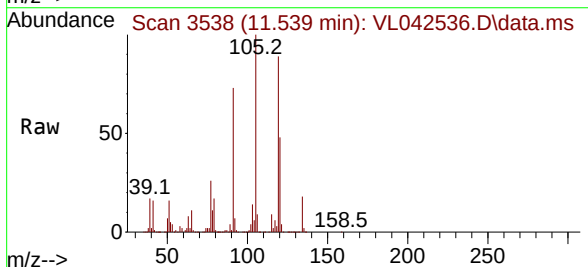
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010

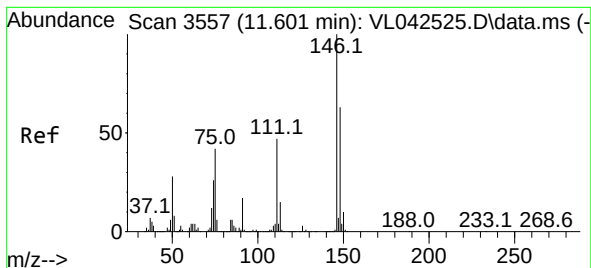
Tgt Ion:105 Resp: 417484
 Ion Ratio Lower Upper
 105 100
 120 45.1 36.0 54.0



#74
 1,2,4-Trimethylbenzene
 Concen: 10.016 ppbv
 RT: 11.539 min Scan# 3538
 Delta R.T. 0.010 min
 Lab File: VL042536.D
 Acq: 14 May 2025 10:23

Tgt Ion:105 Resp: 474163
 Ion Ratio Lower Upper
 105 100
 120 48.4 39.0 58.6
 91 73.1 49.4 74.2
 77 25.9 19.8 29.6





#75

1,3-Dichlorobenzene

Concen: 9.464 ppbv

RT: 11.610 min Scan# 3557

Delta R.T. 0.010 min

Lab File: VL042536.D

Acq: 14 May 2025 10:23

Instrument :

MSVOA_1

ClientSampleId :

VSTDCCC010

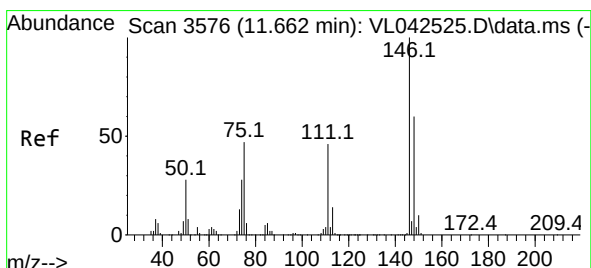
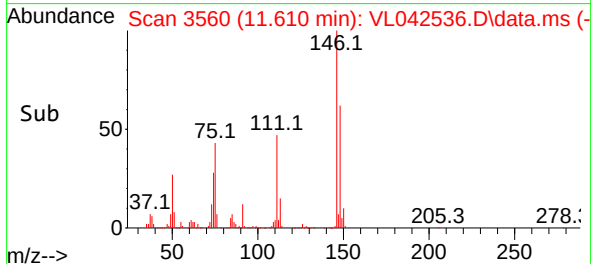
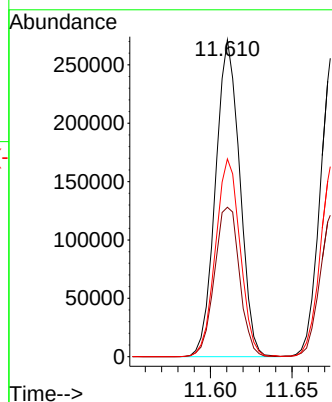
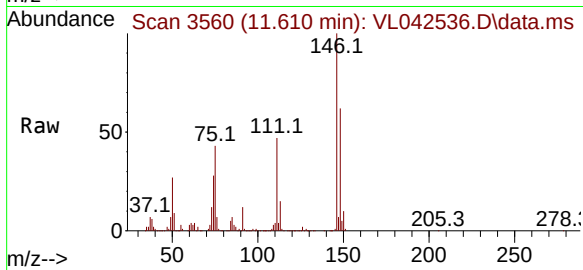
Tgt Ion:146 Resp: 280626

Ion Ratio Lower Upper

146 100

111 48.9 23.6 71.0

148 63.2 31.6 94.8



#76

1,4-Dichlorobenzene

Concen: 9.958 ppbv

RT: 11.675 min Scan# 3580

Delta R.T. 0.013 min

Lab File: VL042536.D

Acq: 14 May 2025 10:23

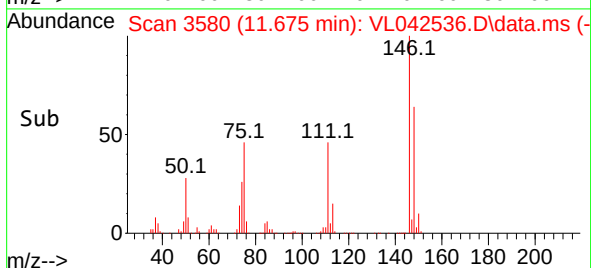
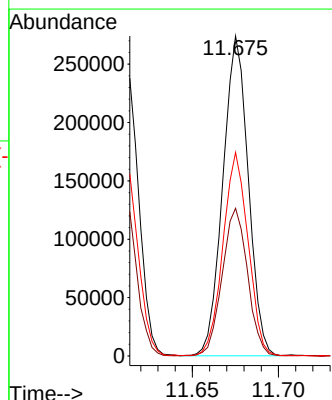
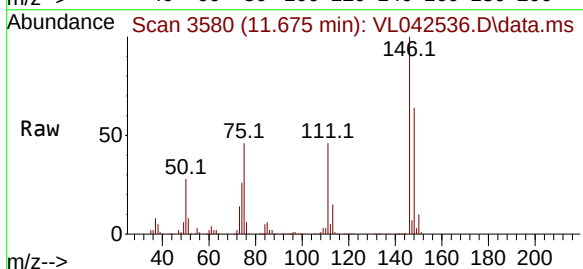
Tgt Ion:146 Resp: 280915

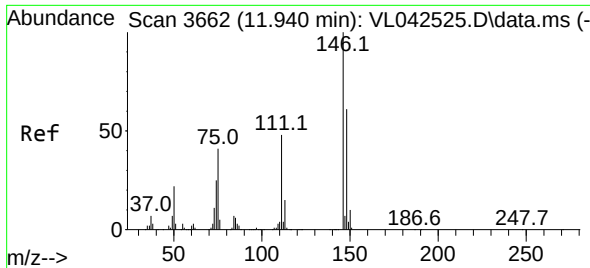
Ion Ratio Lower Upper

146 100

111 46.4 23.4 70.3

148 63.2 31.6 94.7

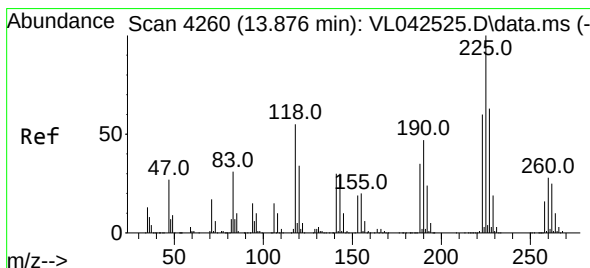
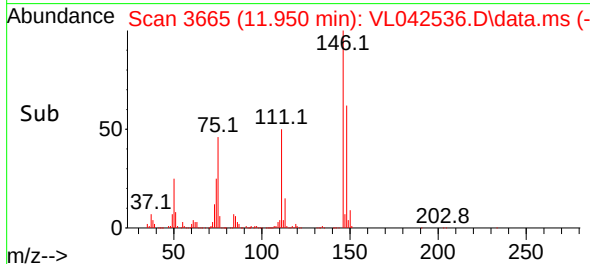
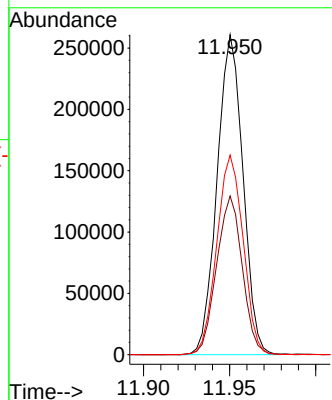
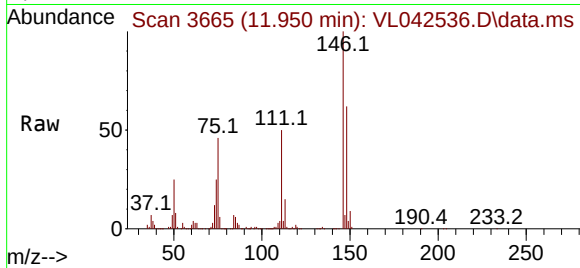




#77
1,2-Dichlorobenzene
Concen: 8.908 ppbv
RT: 11.950 min Scan# 3665
Delta R.T. 0.010 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

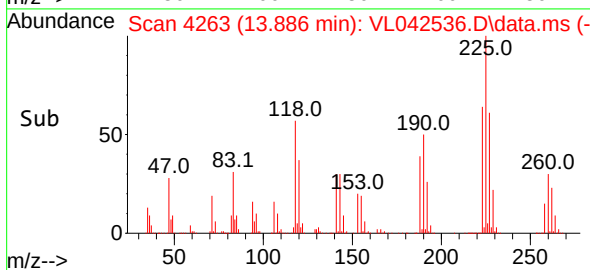
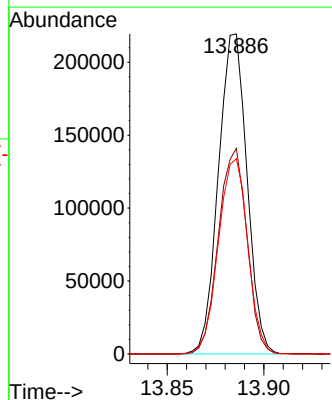
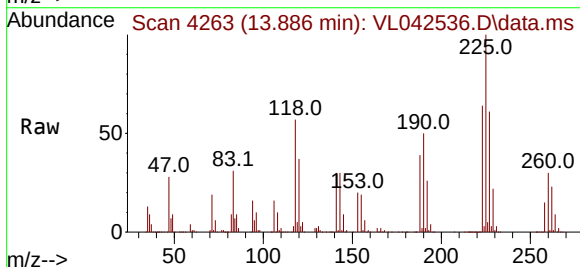
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

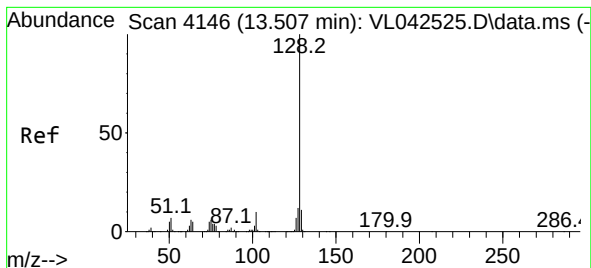
Tgt Ion:146 Resp: 272842
Ion Ratio Lower Upper
146 100
111 49.4 24.9 74.8
148 63.5 31.4 94.2



#78
Hexachloro-1,3-Butadiene
Concen: 8.588 ppbv
RT: 13.886 min Scan# 4263
Delta R.T. 0.010 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

Tgt Ion:225 Resp: 225532
Ion Ratio Lower Upper
225 100
223 64.0 50.8 76.2
227 62.5 50.5 75.7





#79

Naphthalene

Concen: 13.459 ppbv

RT: 13.517 min Scan# 41

Delta R.T. 0.010 min

Lab File: VL042536.D

Acq: 14 May 2025 10:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

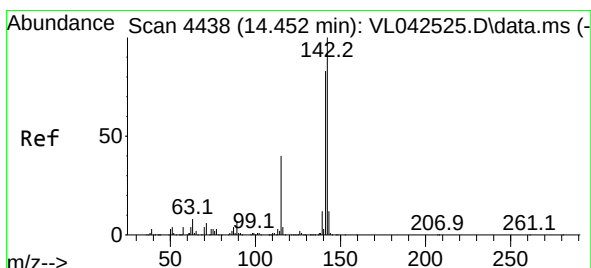
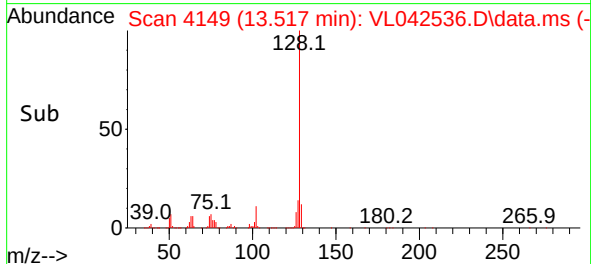
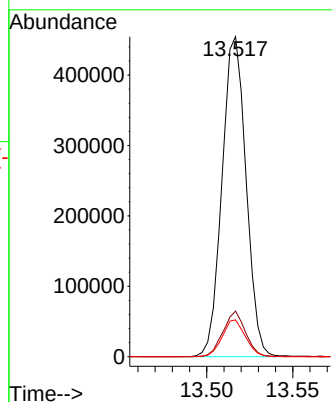
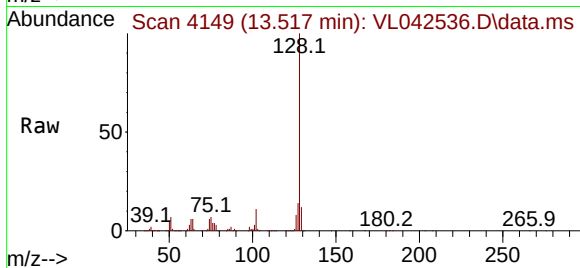
Tgt Ion:128 Resp: 441576

Ion Ratio Lower Upper

128 100

127 14.2 9.8 14.8

129 11.5 8.6 12.8



#80

Naphthalene,2-methyl-

Concen: 14.525 ppbv

RT: 14.459 min Scan# 4440

Delta R.T. 0.007 min

Lab File: VL042536.D

Acq: 14 May 2025 10:23

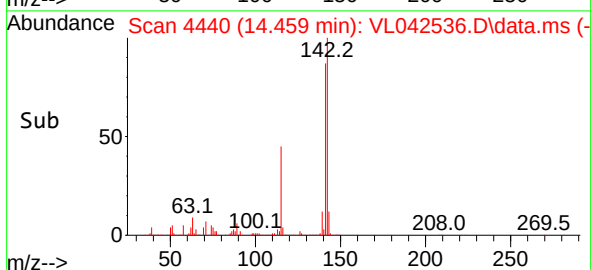
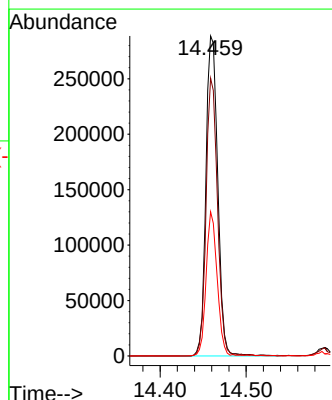
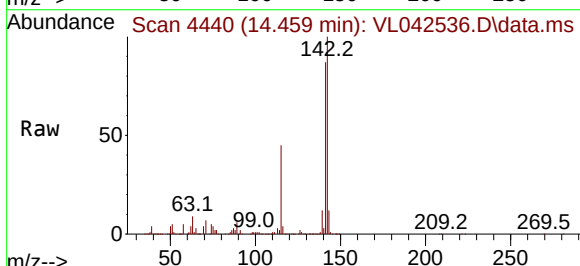
Tgt Ion:142 Resp: 275041

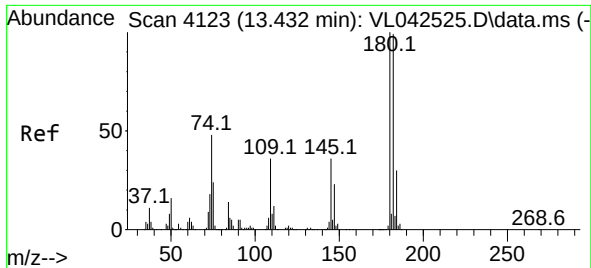
Ion Ratio Lower Upper

142 100

141 84.4 66.8 100.2

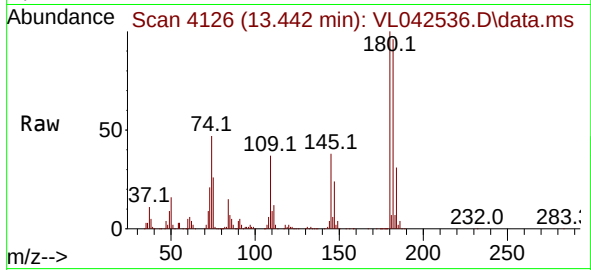
115 42.5 33.0 49.6





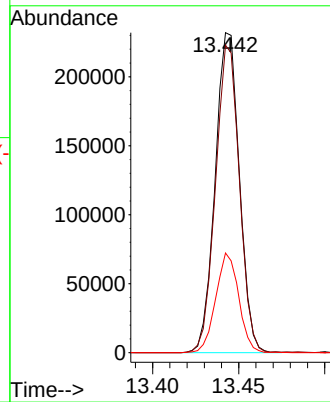
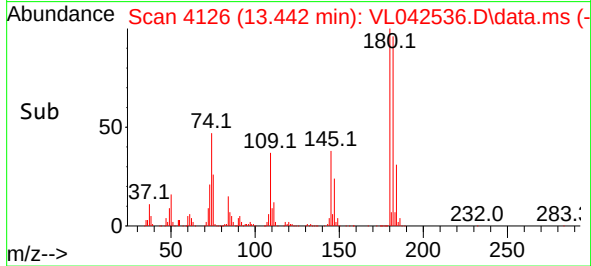
#81
 1,2,4-Trichlorobenzene
 Concen: 11.385 ppbv
 RT: 13.442 min Scan# 41
 Delta R.T. 0.010 min
 Lab File: VL042536.D
 Acq: 14 May 2025 10:23

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



Tgt Ion:180 Resp: 227198

Ion	Ratio	Lower	Upper
180	100		
182	95.0	76.6	114.8
184	29.5	24.6	36.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051425\
 Data File : VL042538.D
 Acq On : 14 May 2025 11:53
 Operator : SY/MD
 Sample : VL0514ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0514ABS01

Quant Time: May 15 01:32:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue May 13 02:07:03 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	116911	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	3.962	114	342869	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.885	117	296340	10.000	ppbv	0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	260716	10.111	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.100%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	177349	9.342	ppbv	98
3) Chlorodifluoromethane	1.476	51	171430	8.861	ppbv	100
4) Chloromethane	1.534	50	69630	8.987	ppbv	100
5) Vinyl Chloride	1.580	62	68261	8.610	ppbv	94
6) Bromomethane	1.667	94	37101	9.854	ppbv	94
7) Chloroethane	1.706	64	28035	8.956	ppbv	97
8) Dichlorotetrafluoroethane	1.554	85	146902	8.993	ppbv	100
9) Propene	1.486	41	58217	13.876	ppbv #	1
10) Heptane	4.981	43	171029	10.667	ppbv	97
11) Trichlorofluoromethane	1.877	101	183595	10.054	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.140	101	148178	10.103	ppbv	100
13) Ethanol	1.722	45	8751	7.754	ppbv	98
14) Bromoethene	1.784	108	51275	9.589	ppbv	99
15) Acetone	1.835	43	152999	8.119	ppbv	99
16) 1,3-Butadiene	1.609	39	76378	9.092	ppbv	97
17) tert-Butyl alcohol	2.039	59	172075	9.968	ppbv	99
18) 1,1-Dichloroethene	2.036	96	63992	9.955	ppbv	99
19) Isopropyl Alcohol	1.887	45	97672	9.624	ppbv	100
20) Methylene Chloride	2.062	84	56851	8.739	ppbv	96
21) Allyl Chloride	2.098	41	120871	9.772	ppbv	96
22) trans-1,2-Dichloroethene	2.340	96	72704	9.669	ppbv	95
23) Vinyl Acetate	2.463	43	184141	9.415	ppbv #	98
24) 1,1-Dichloroethane	2.408	63	146965	10.102	ppbv	98
25) Ethyl Acetate	2.836	43	312927	9.540	ppbv	100
26) Hexane	2.829	57	138195	10.262	ppbv	97
27) Carbon Disulfide	2.153	76	181278	10.428	ppbv	95
28) Methyl tert-Butyl Ether	2.441	73	84826	11.338	ppbv	97
29) Chloroform	2.852	83	247796	8.872	ppbv	99
30) Cyclohexane	3.858	84	119963	10.850	ppbv	97
31) cis-1,2-Dichloroethene	2.722	61	145273	9.553	ppbv	95
32) 1,1,1-Trichloroethane	3.370	97	255956	8.881	ppbv	99
34) 2-Butanone	2.557	43	197074	8.720	ppbv	98
35) Carbon Tetrachloride	3.768	117	277335	8.997	ppbv	98
36) Benzene	3.661	78	293547	9.661	ppbv	99
37) 1,2-Dichloroethane	3.221	62	193600	8.932	ppbv	100
38) Trichloroethene	4.551	130	122351	9.261	ppbv	97
39) 1,2-Dichloropropane	4.315	63	103541	9.148	ppbv	88
40) 1,4-Dioxane	4.583	88	47286	10.292	ppbv #	99
41) Tetrahydrofuran	3.056	42	101765	10.403	ppbv	98
42) Bromodichloromethane	4.493	83	263548	9.111	ppbv	98
43) Methyl Methacrylate	4.884	69	106126	10.429	ppbv	99
44) 2,2,4-Trimethylpentane	4.645	57	476041	9.887	ppbv	99
45) t-1,3-Dichloropropene	6.418	75	132911	10.223	ppbv	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051425\
 Data File : VL042538.D
 Acq On : 14 May 2025 11:53
 Operator : SY/MD
 Sample : VL0514ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

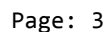
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0514ABS01

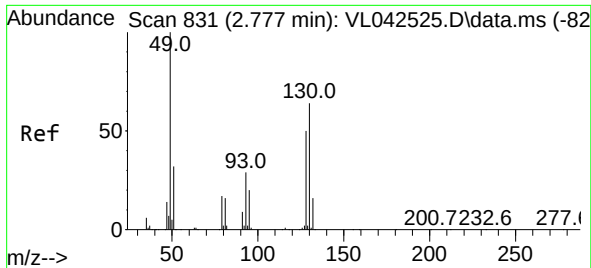
Quant Time: May 15 01:32:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue May 13 02:07:03 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.606	75	160141	10.239	ppbv	92
47) 1,1,2-Trichloroethane	6.587	97	119517	8.967	ppbv	97
48) Dibromochloromethane	7.389	129	215320	9.676	ppbv	98
49) Bromoform	9.487	173	177871	9.740	ppbv	98
50) 4-Methyl-2-Pentanone	5.755	43	268277	10.107	ppbv	99
51) 2-Hexanone	7.438	43	221041	11.195	ppbv #	99
52) Tetrachloroethene	8.228	164	104385	8.979	ppbv	91
53) Toluene	6.940	91	320104	10.735	ppbv	100
54) 1,2-Dibromoethane	7.658	107	181316	9.315	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.930	131	166531	9.064	ppbv	98
57) Chlorobenzene	8.924	112	275176	9.248	ppbv	99
58) Ethyl Benzene	9.357	91	466684	11.554	ppbv	94
59) m/p-Xylene	9.555	91	383319	10.686	ppbv #	100
60) o-Xylene	9.969	91	395533	11.290	ppbv	100
61) Styrene	9.875	104	152625	11.763	ppbv	98
62) Isopropylbenzene	10.542	105	572300	10.847	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.966	83	248344	8.734	ppbv	99
64) n-propylbenzene	10.992	120	149437	11.156	ppbv	100
65) tert-Butylbenzene	11.532	119	527031	10.878	ppbv	100
66) Benzyl Chloride	11.617	91	67242	10.445	ppbv	99
67) sec-Butylbenzene	11.772	105	733606	10.561	ppbv	100
69) p-Isopropyltoluene	11.927	119	635567	11.129	ppbv	99
70) n-Butylbenzene	12.283	91	632577	11.210	ppbv	100
71) 2-Chlorotoluene	10.904	91	439880	11.010	ppbv	99
72) 4-Ethyltoluene	11.128	105	496655	11.428	ppbv	100
73) 1,3,5-Trimethylbenzene	11.205	105	415787	10.984	ppbv	97
74) 1,2,4-Trimethylbenzene	11.539	105	471038	10.114	ppbv	91
75) 1,3-Dichlorobenzene	11.610	146	282203	9.675	ppbv	100
76) 1,4-Dichlorobenzene	11.675	146	274722	9.900	ppbv	98
77) 1,2-Dichlorobenzene	11.950	146	269587	8.948	ppbv	99
78) Hexachloro-1,3-Butadiene	13.882	225	219747	8.506	ppbv	99
79) Naphthalene	13.513	128	437553	13.557	ppbv	98
80) Naphthalene,2-methyl-	14.458	142	278888	14.972	ppbv	99
81) 1,2,4-Trichlorobenzene	13.442	180	219152	11.164	ppbv	99

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

Quant Time: May 15 01:32:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue May 13 02:07:03 2025
Response via : Initial Calibration

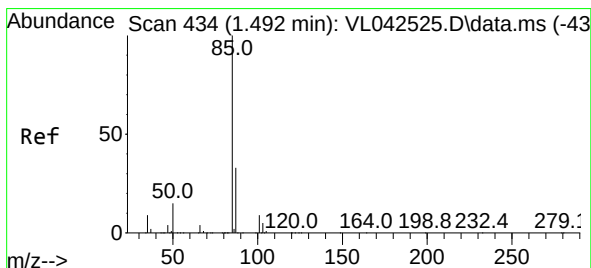
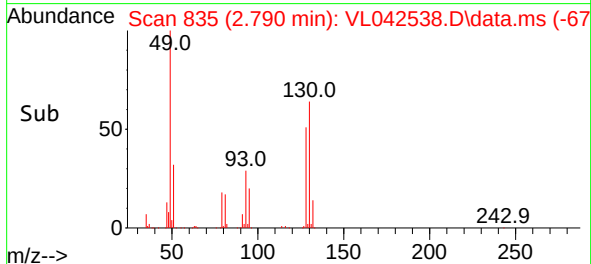
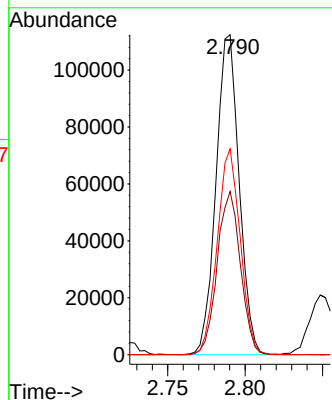
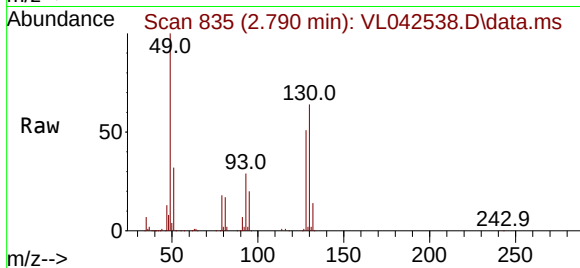




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.013 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

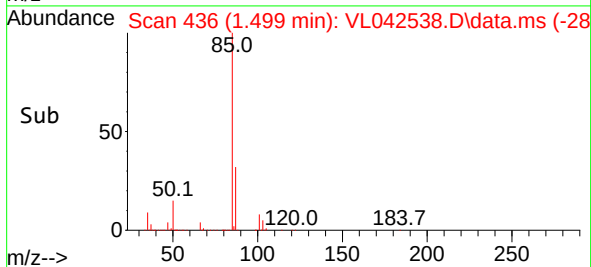
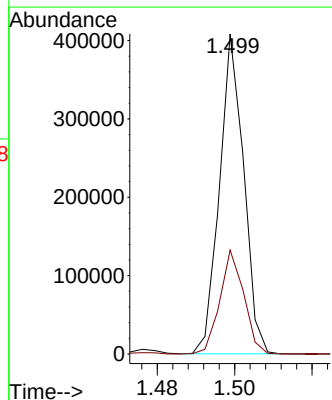
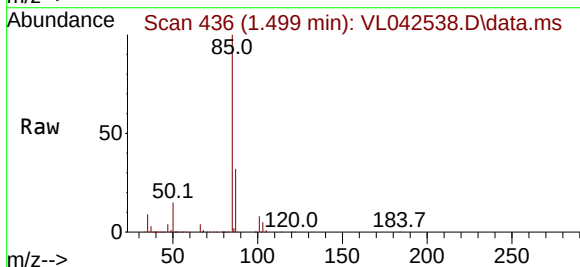
Instrument :
MSVOA_L
ClientSampleId :
VL0514ABS01

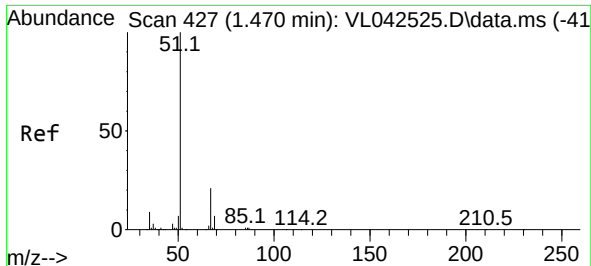
Tgt Ion: 49 Resp: 116911
Ion Ratio Lower Upper
49 100
128 51.1 24.9 74.6
130 63.8 32.5 97.5



#2
Dichlorodifluoromethane
Concen: 9.342 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.006 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

Tgt Ion: 85 Resp: 177349
Ion Ratio Lower Upper
85 100
87 32.4 26.8 40.2

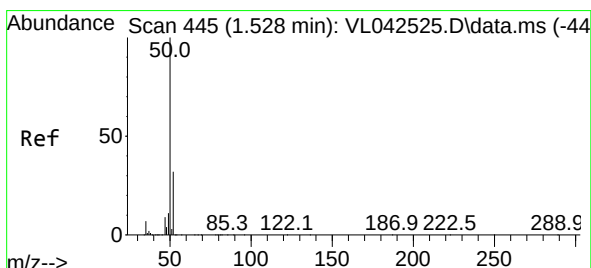
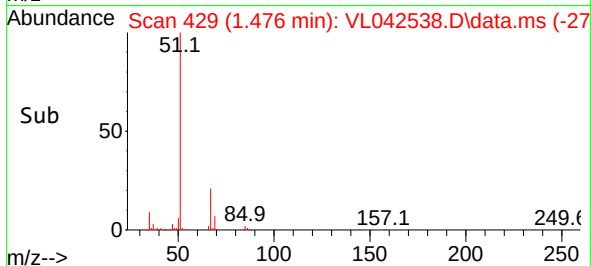
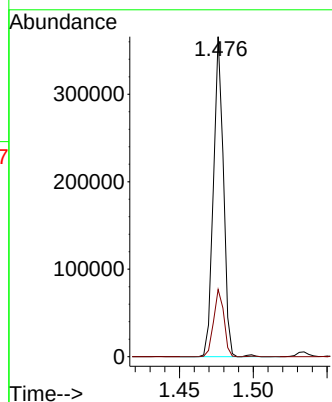
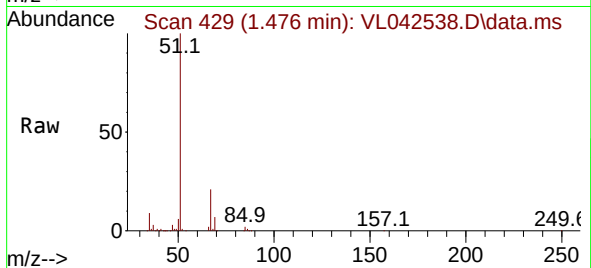




#3
Chlorodifluoromethane
Concen: 8.861 ppbv
RT: 1.476 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

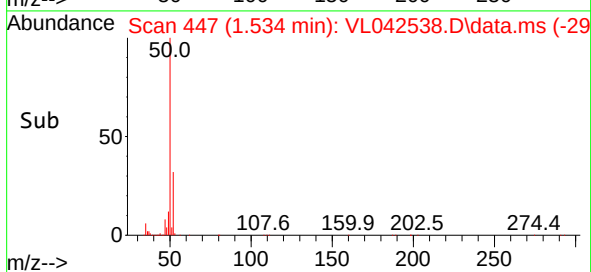
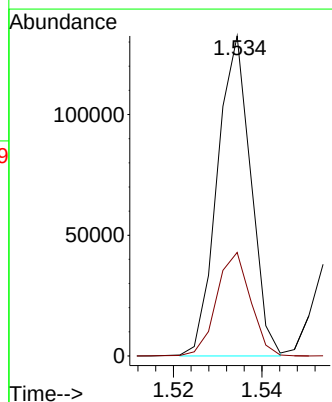
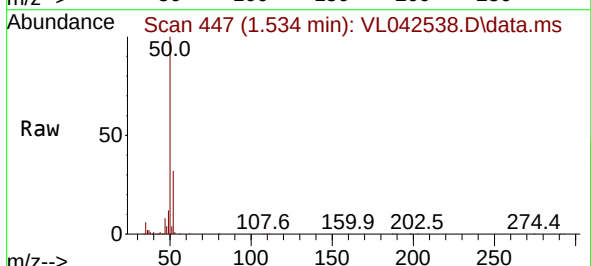
Instrument :
MSVOA_1
ClientSampleId :
VL0514ABS01

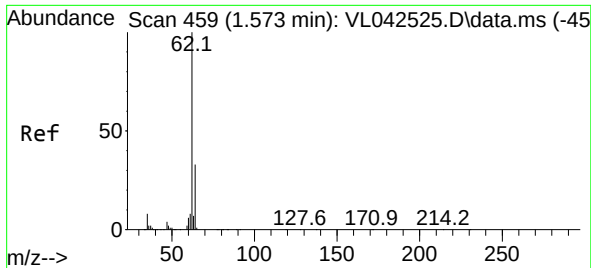
Tgt Ion: 51 Resp: 171430
Ion Ratio Lower Upper
51 100
67 21.7 17.4 26.0



#4
Chloromethane
Concen: 8.987 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.006 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

Tgt Ion: 50 Resp: 69630
Ion Ratio Lower Upper
50 100
52 32.3 25.9 38.9

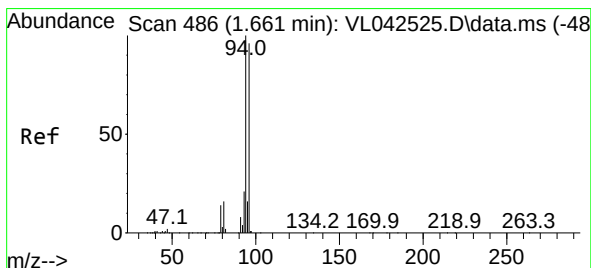
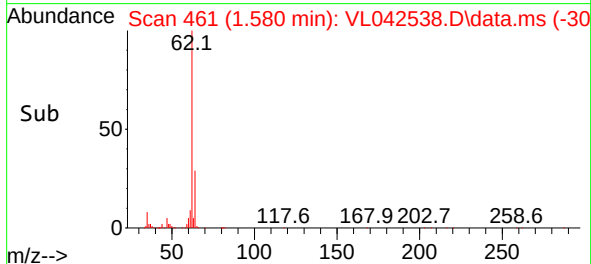
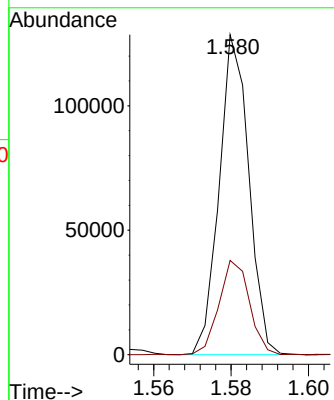
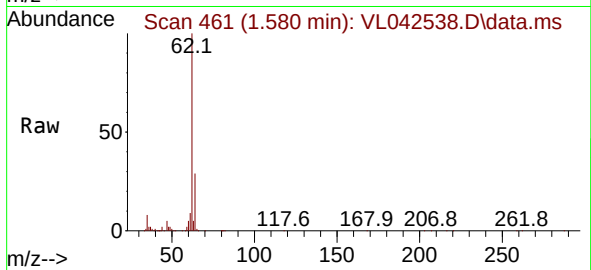




#5
 Vinyl Chloride
 Concen: 8.610 ppbv
 RT: 1.580 min Scan# 459
 Delta R.T. 0.006 min
 Lab File: VL042538.D
 Acq: 14 May 2025 11:53

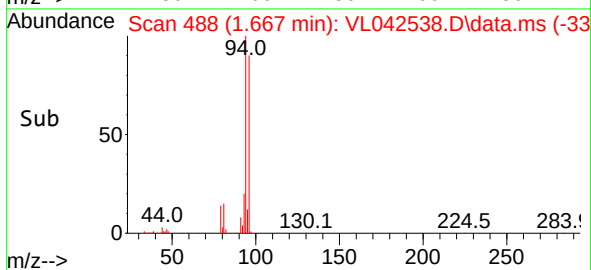
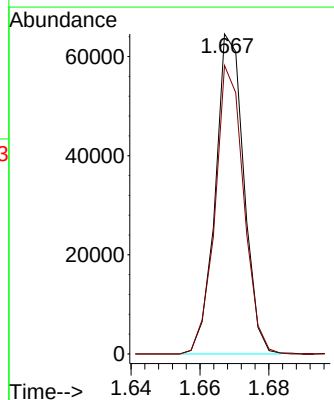
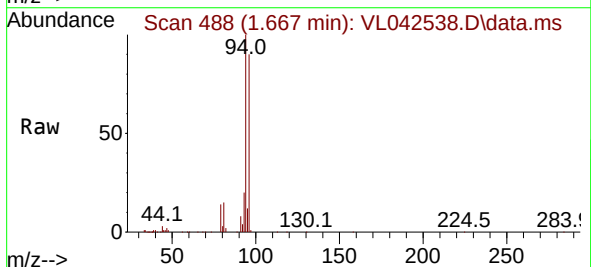
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0514ABS01

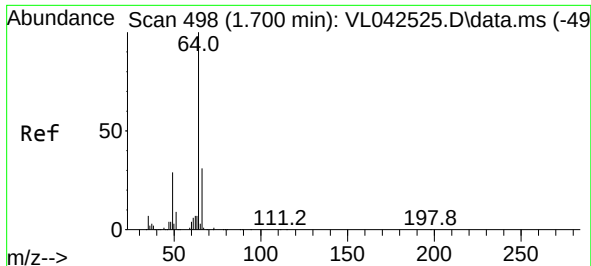
Tgt Ion: 62 Resp: 68261
 Ion Ratio Lower Upper
 62 100
 64 29.4 26.5 39.7



#6
 Bromomethane
 Concen: 9.854 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. 0.006 min
 Lab File: VL042538.D
 Acq: 14 May 2025 11:53

Tgt Ion: 94 Resp: 37101
 Ion Ratio Lower Upper
 94 100
 96 90.2 76.9 115.3

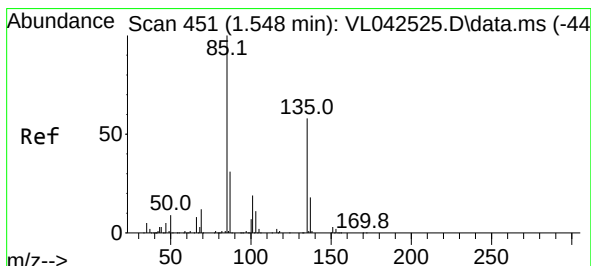
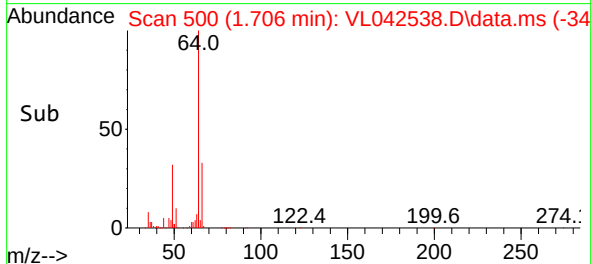
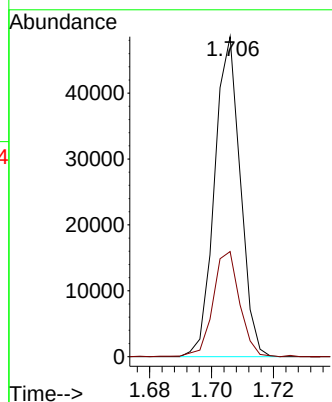
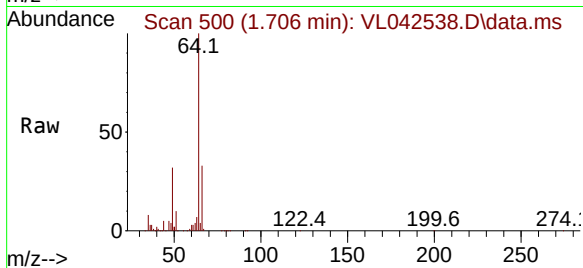




#7
Chloroethane
Concen: 8.956 ppbv
RT: 1.706 min Scan# 50
Delta R.T. 0.006 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

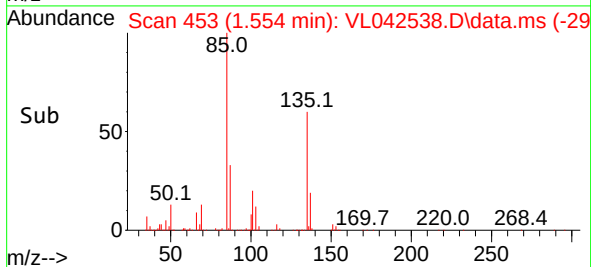
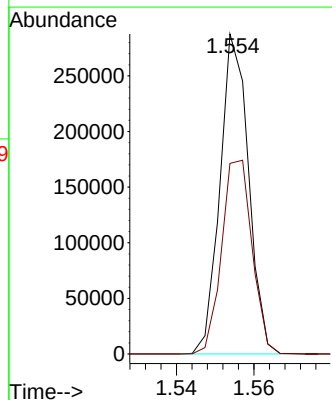
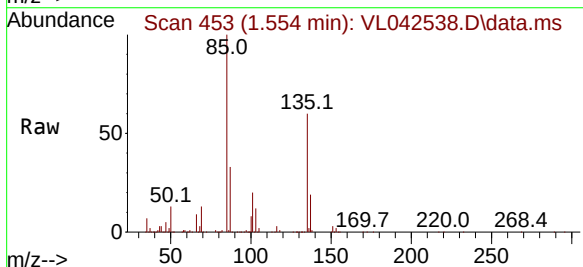
Instrument :
MSVOA_L
ClientSampleId :
VL0514ABS01

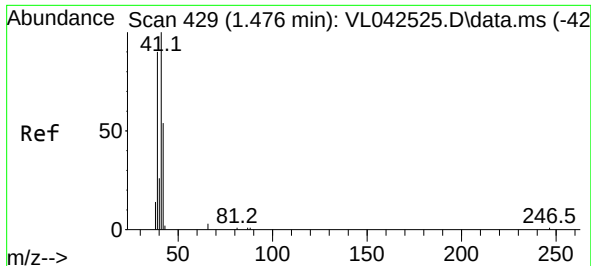
Tgt Ion: 64 Resp: 28035
Ion Ratio Lower Upper
64 100
66 32.9 25.1 37.7



#8
Dichlorotetrafluoroethane
Concen: 8.993 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.006 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

Tgt Ion: 85 Resp: 146902
Ion Ratio Lower Upper
85 100
135 64.8 51.8 77.8





#9

Propene

Concen: 13.876 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.010 min

Lab File: VL042538.D

Acq: 14 May 2025 11:53

Instrument :

MSVOA_L

ClientSampleId :

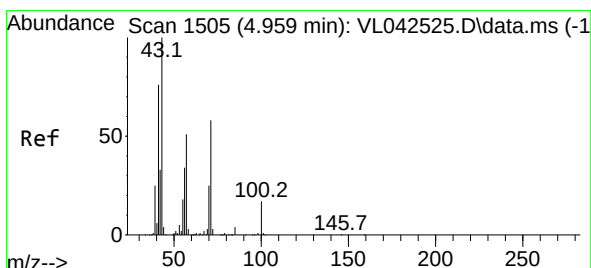
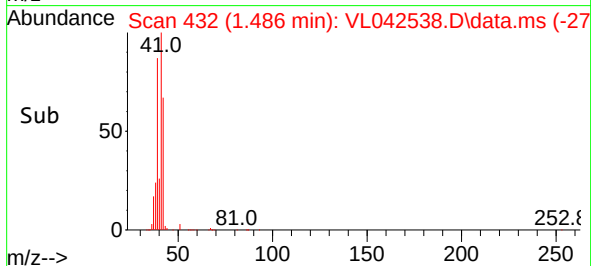
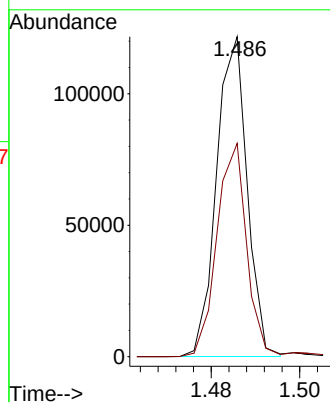
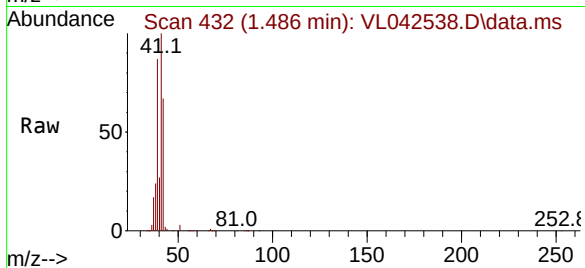
VL0514ABS01

Tgt Ion: 41 Resp: 58217

Ion Ratio Lower Upper

41 100

42 66.8 4.1 6.1#



#10

Heptane

Concen: 10.667 ppbv

RT: 4.981 min Scan# 1512

Delta R.T. 0.022 min

Lab File: VL042538.D

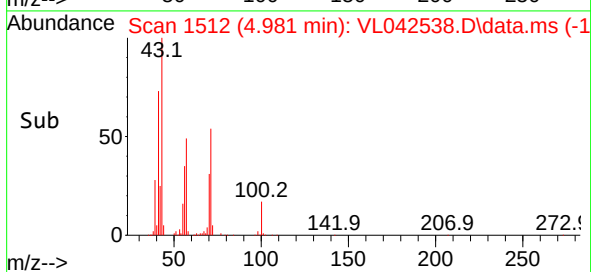
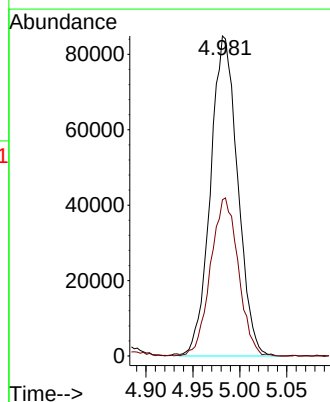
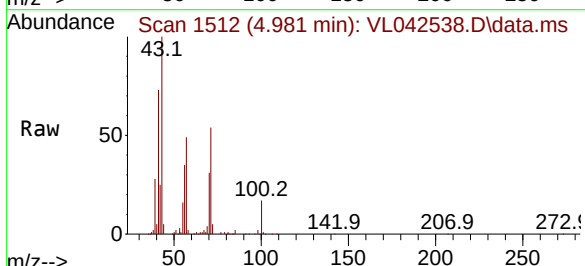
Acq: 14 May 2025 11:53

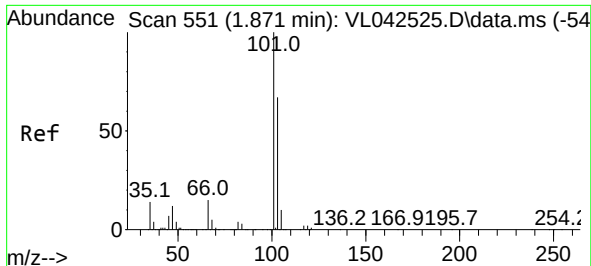
Tgt Ion: 43 Resp: 171029

Ion Ratio Lower Upper

43 100

57 50.3 42.1 63.1

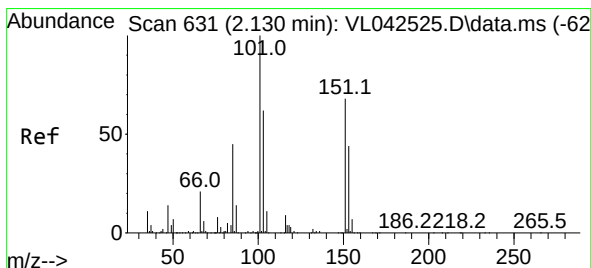
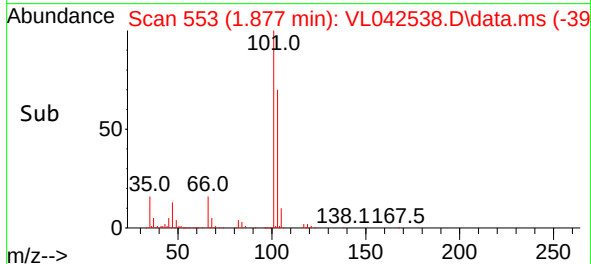
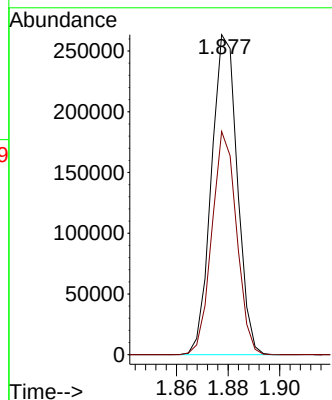
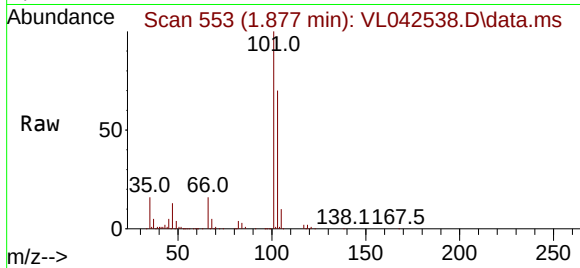




#11
Trichlorofluoromethane
Concen: 10.054 ppbv
RT: 1.877 min Scan# 511
Delta R.T. 0.006 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

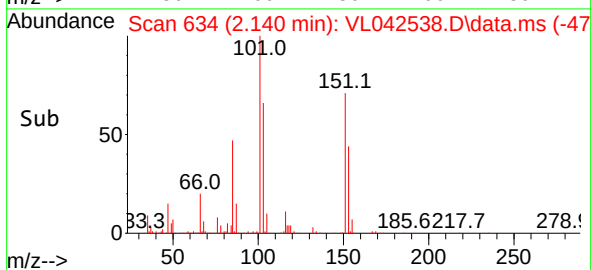
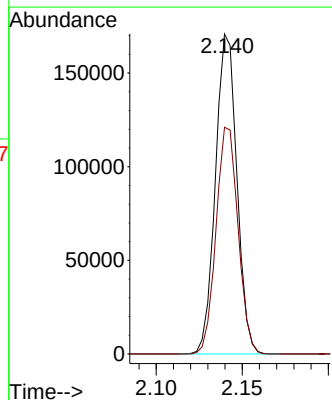
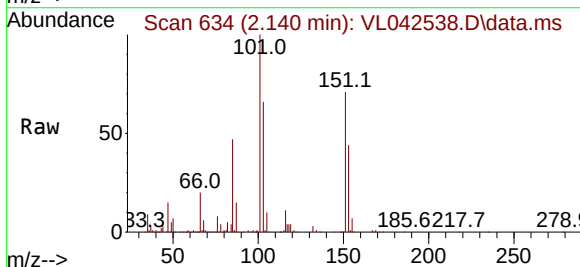
Instrument :
MSVOA_L
ClientSampleId :
VL0514ABS01

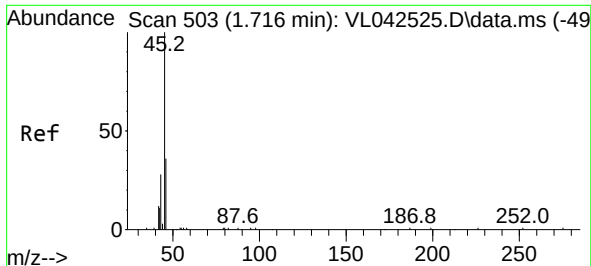
Tgt Ion:101 Resp: 183595
Ion Ratio Lower Upper
101 100
103 69.8 53.8 80.6



#12
1,1,2-Trichlorotrifluoroethane
Concen: 10.103 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.010 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

Tgt Ion:101 Resp: 148178
Ion Ratio Lower Upper
101 100
151 72.6 57.8 86.8

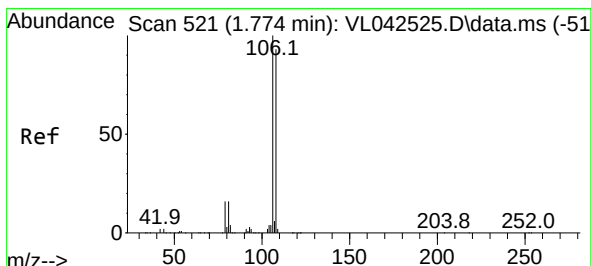
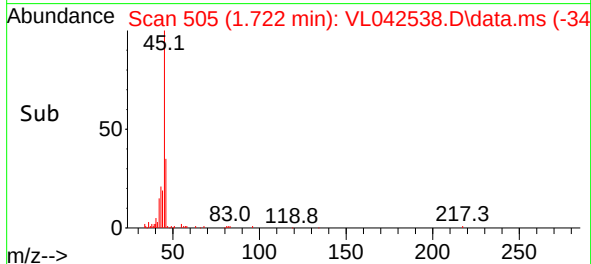
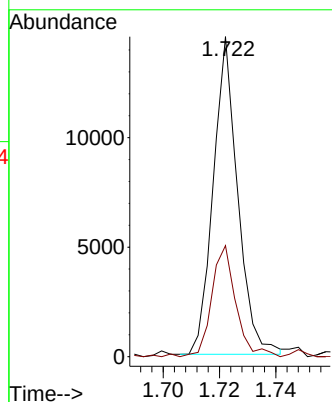
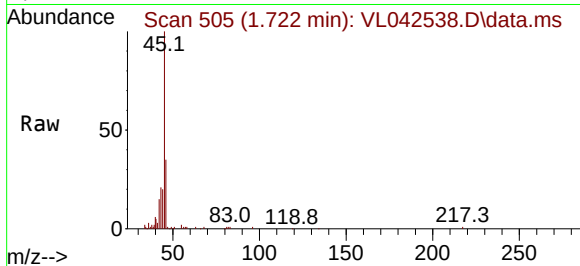




#13
Ethanol
Concen: 7.754 ppbv
RT: 1.722 min Scan# 503
Delta R.T. 0.006 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

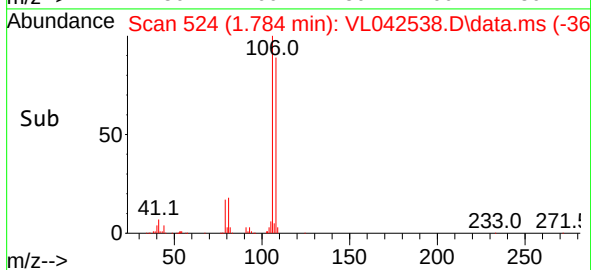
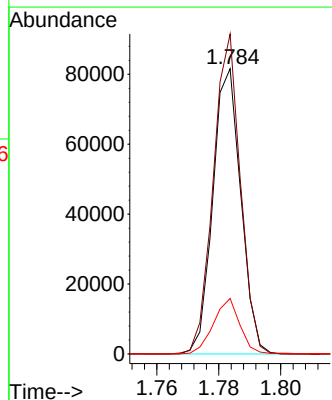
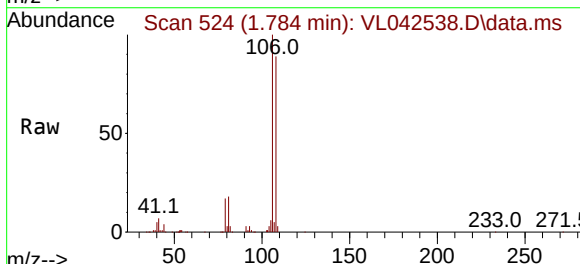
Instrument :
MSVOA_1
ClientSampleId :
VL0514ABS01

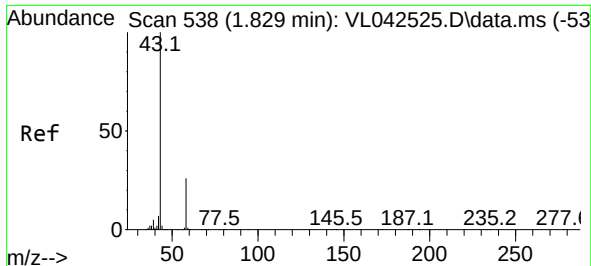
Tgt Ion: 45 Resp: 8751
Ion Ratio Lower Upper
45 100
46 36.1 14.8 59.4



#14
Bromoethene
Concen: 9.589 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.010 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

Tgt Ion: 108 Resp: 51275
Ion Ratio Lower Upper
108 100
106 108.1 87.4 131.2
79 19.0 15.1 22.7

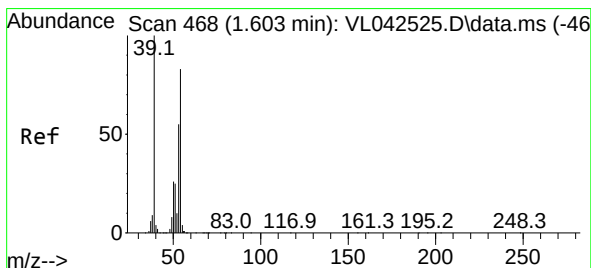
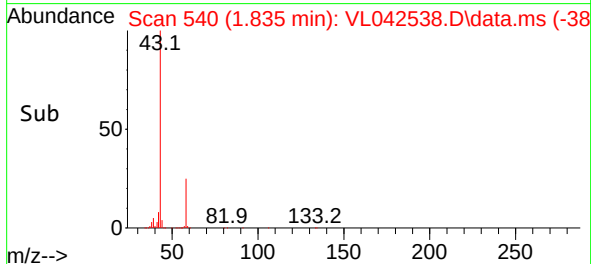
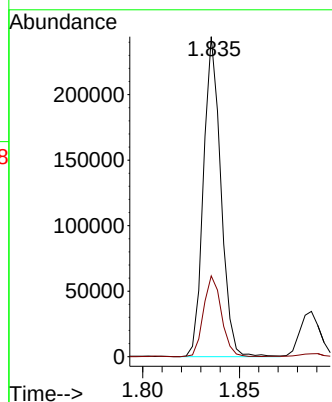
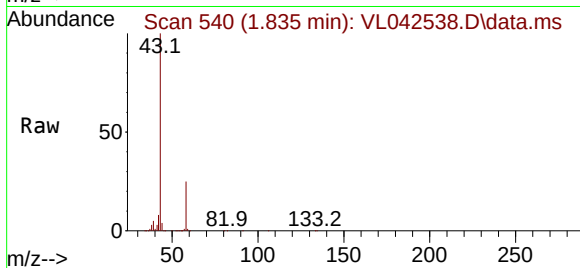




#15
Acetone
Concen: 8.119 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.006 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

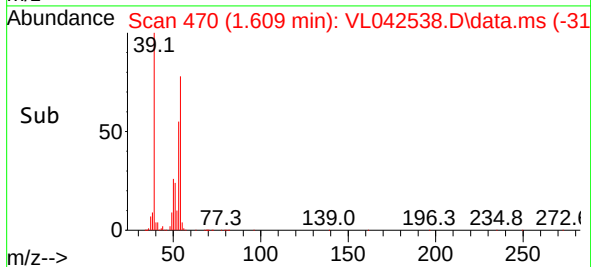
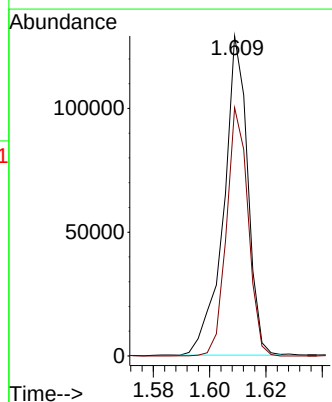
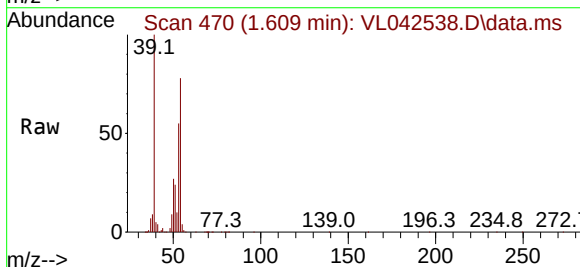
Instrument :
MSVOA_L
ClientSampleId :
VL0514ABS01

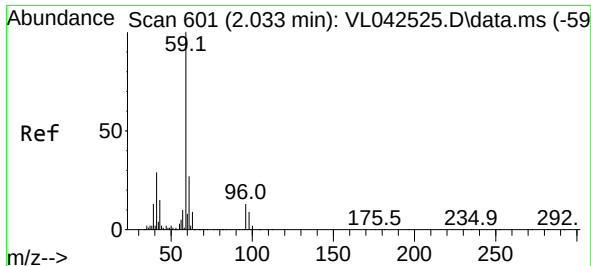
Tgt Ion: 43 Resp: 152999
Ion Ratio Lower Upper
43 100
58 26.2 21.3 31.9



#16
1,3-Butadiene
Concen: 9.092 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.006 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

Tgt Ion: 39 Resp: 76378
Ion Ratio Lower Upper
39 100
54 70.0 57.8 86.6





#17

tert-Butyl alcohol

Concen: 9.968 ppbv

RT: 2.039 min Scan# 601

Delta R.T. 0.006 min

Lab File: VL042538.D

Acq: 14 May 2025 11:53

Instrument :

MSVOA_L

ClientSampleId :

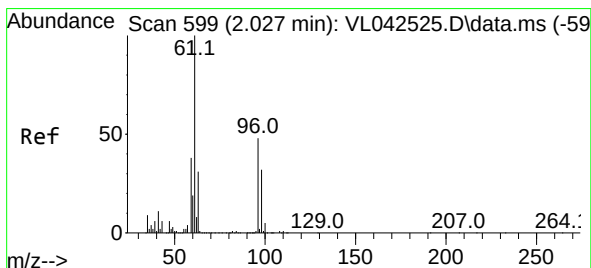
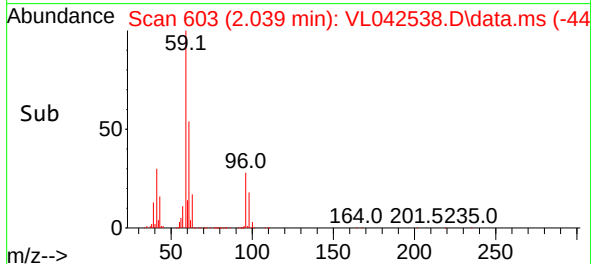
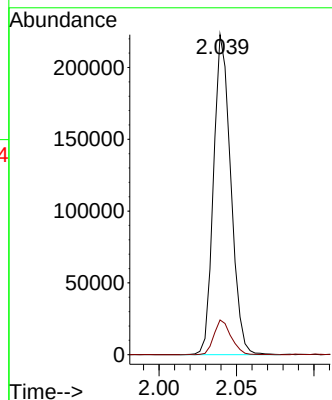
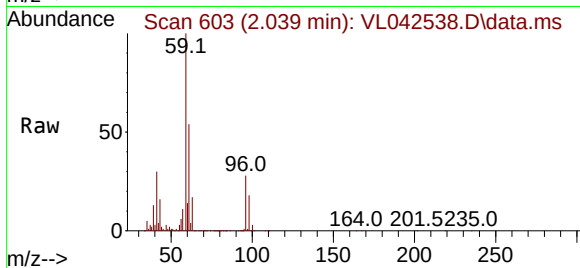
VL0514ABS01

Tgt Ion: 59 Resp: 172075

Ion Ratio Lower Upper

59 100

57 10.8 8.2 12.4



#18

1,1-Dichloroethene

Concen: 9.955 ppbv

RT: 2.036 min Scan# 602

Delta R.T. 0.010 min

Lab File: VL042538.D

Acq: 14 May 2025 11:53

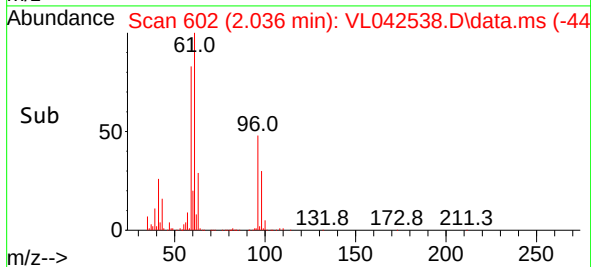
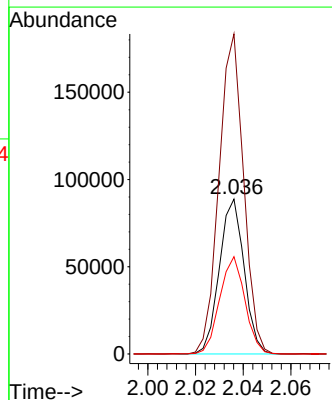
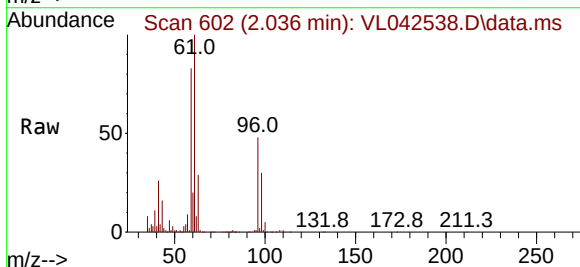
Tgt Ion: 96 Resp: 63992

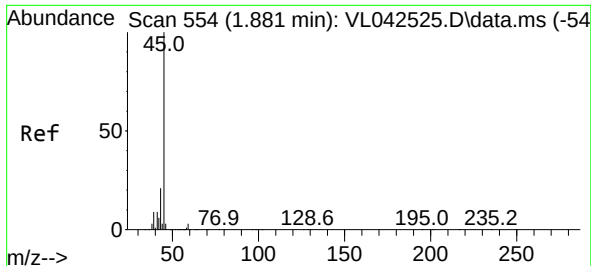
Ion Ratio Lower Upper

96 100

61 206.6 165.0 247.4

98 62.8 52.6 79.0

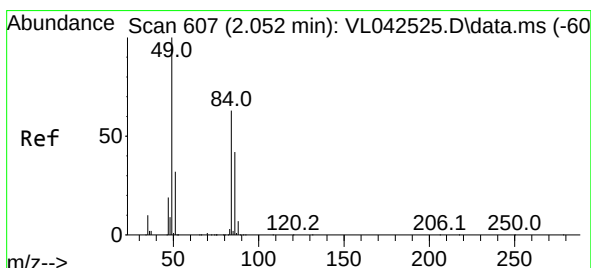
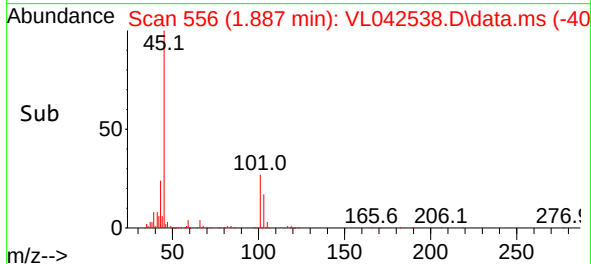
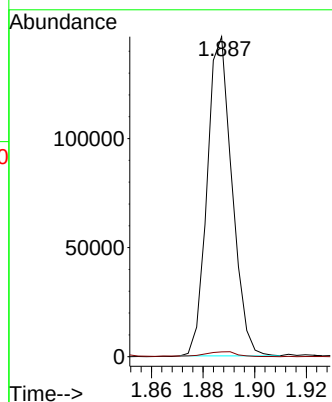
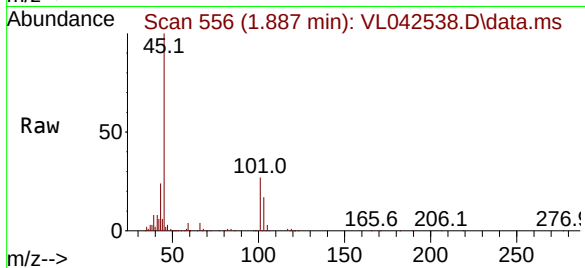




#19
Isopropyl Alcohol
Concen: 9.624 ppbv
RT: 1.887 min Scan# 51
Delta R.T. 0.006 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

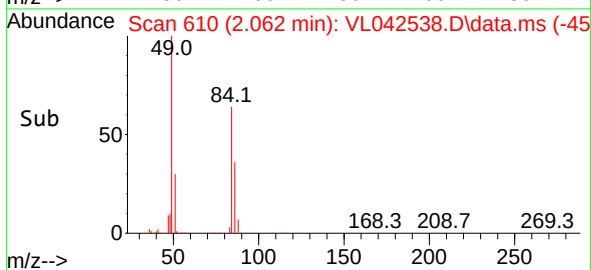
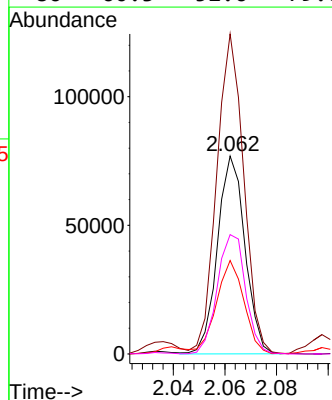
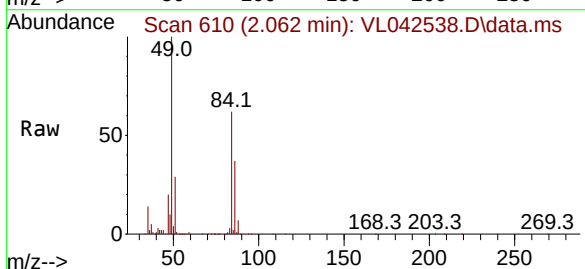
Instrument :
MSVOA_1
ClientSampleId :
VL0514ABS01

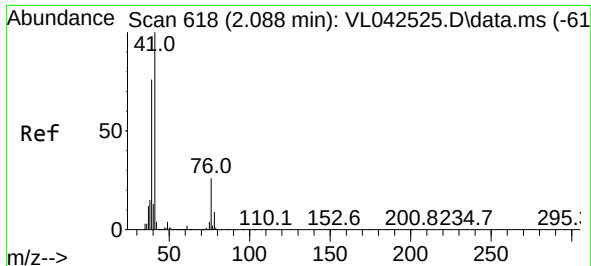
Tgt Ion: 45 Resp: 97672
Ion Ratio Lower Upper
45 100
58 2.0 1.5 2.3



#20
Methylene Chloride
Concen: 8.739 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.010 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

Tgt Ion: 84 Resp: 56851
Ion Ratio Lower Upper
84 100
49 161.5 128.2 192.4
51 46.9 41.7 62.5
86 60.3 52.6 79.0





#21

Allyl Chloride

Concen: 9.772 ppbv

RT: 2.098 min Scan# 61

Delta R.T. 0.010 min

Lab File: VL042538.D

Acq: 14 May 2025 11:53

Instrument :

MSVOA_L

ClientSampleId :

VL0514ABS01

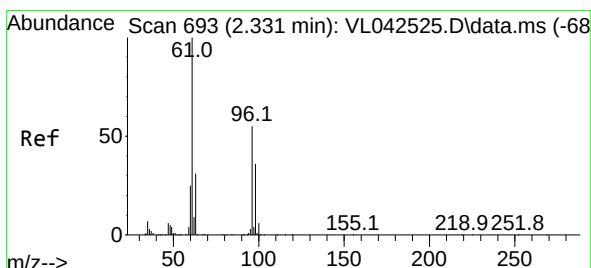
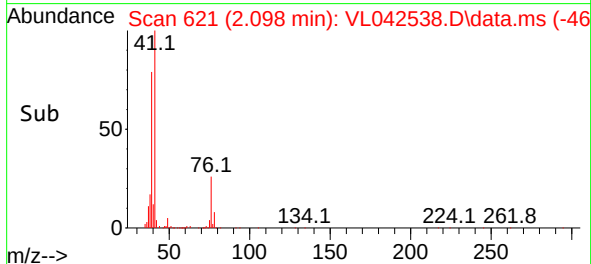
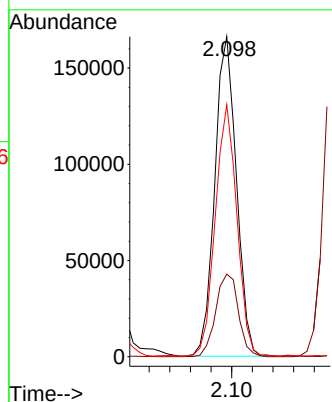
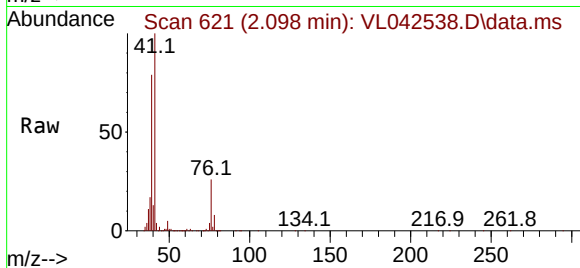
Tgt Ion: 41 Resp: 120871

Ion Ratio Lower Upper

41 100

76 27.1 22.0 33.0

39 78.9 59.5 89.3



#22

trans-1,2-Dichloroethene

Concen: 9.669 ppbv

RT: 2.340 min Scan# 696

Delta R.T. 0.010 min

Lab File: VL042538.D

Acq: 14 May 2025 11:53

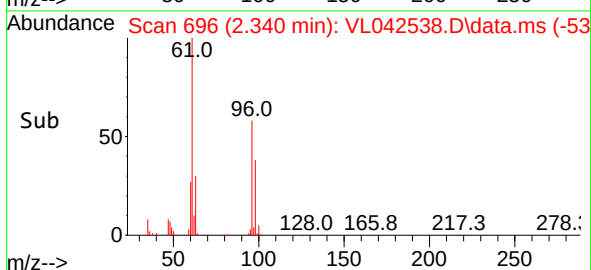
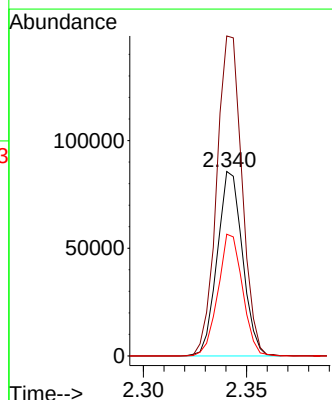
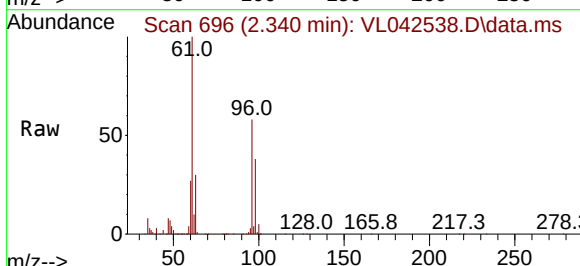
Tgt Ion: 96 Resp: 72704

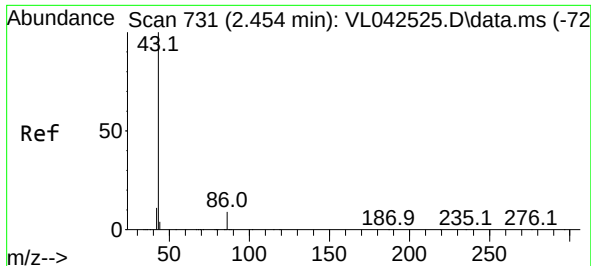
Ion Ratio Lower Upper

96 100

61 173.4 145.9 218.9

98 66.0 52.2 78.4

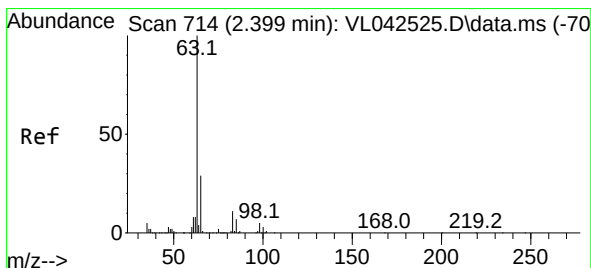
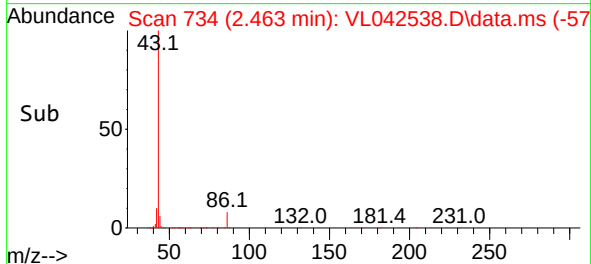
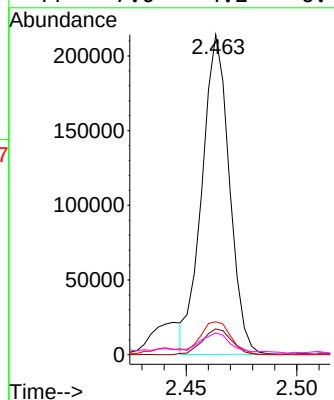
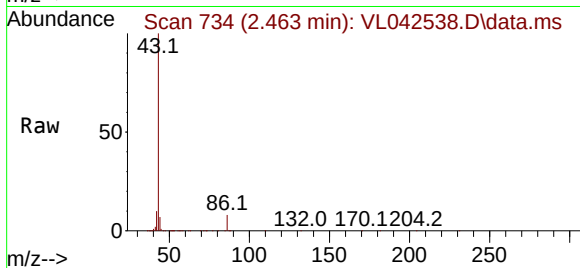




#23
 Vinyl Acetate
 Concen: 9.415 ppbv
 RT: 2.463 min Scan# 717
 Delta R.T. 0.010 min
 Lab File: VL042538.D
 Acq: 14 May 2025 11:53

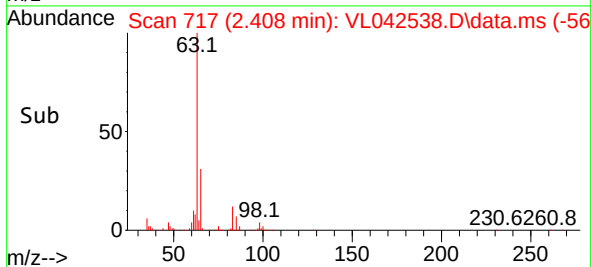
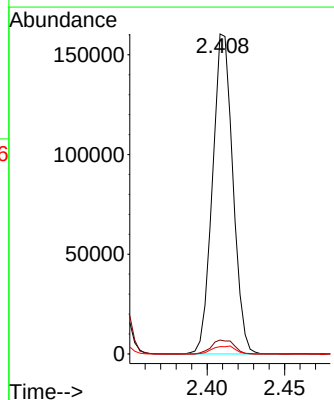
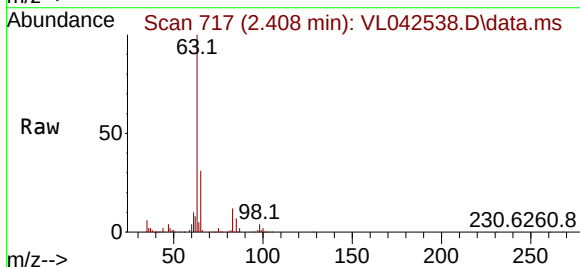
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0514ABS01

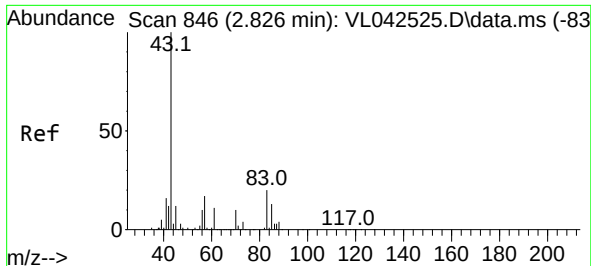
Tgt Ion: 43 Resp: 184141
 Ion Ratio Lower Upper
 43 100
 86 8.0 6.8 10.2
 42 10.2 8.8 13.2
 44 7.0 4.2 6.4#



#24
 1,1-Dichloroethane
 Concen: 10.102 ppbv
 RT: 2.408 min Scan# 717
 Delta R.T. 0.010 min
 Lab File: VL042538.D
 Acq: 14 May 2025 11:53

Tgt Ion: 63 Resp: 146965
 Ion Ratio Lower Upper
 63 100
 98 4.4 2.6 8.0
 100 2.3 1.4 4.2

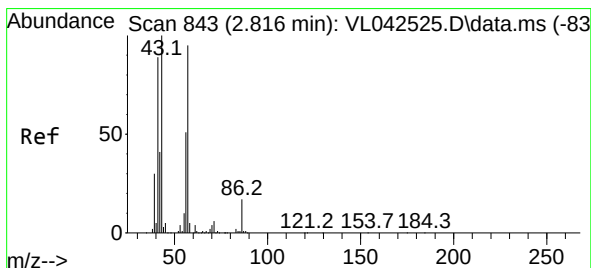
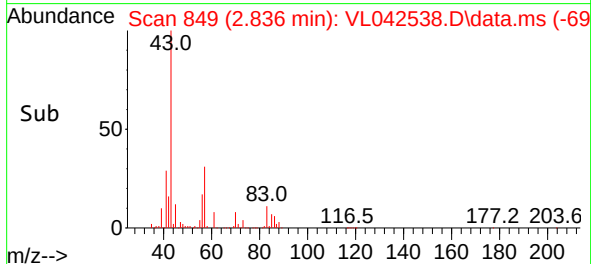
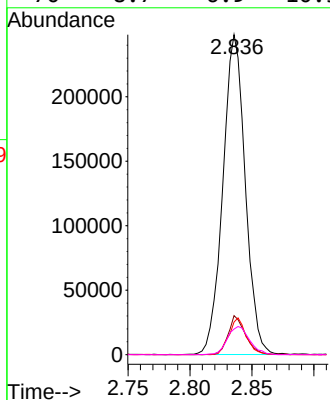
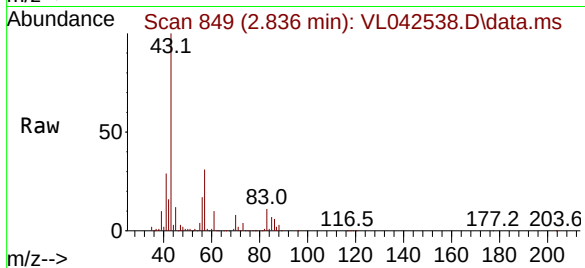




#25
Ethyl Acetate
Concen: 9.540 ppbv
RT: 2.836 min Scan# 846
Delta R.T. 0.010 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

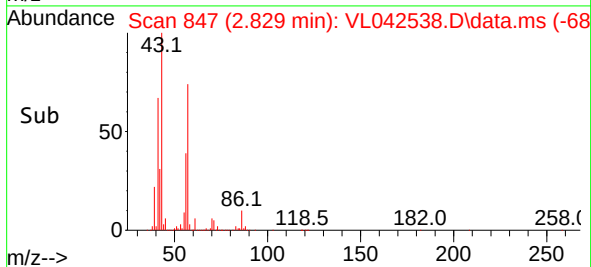
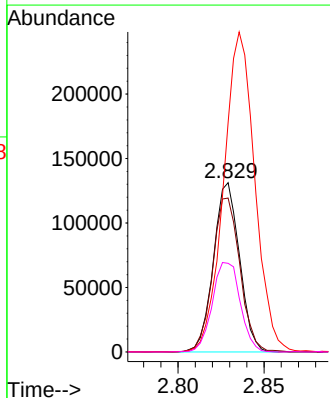
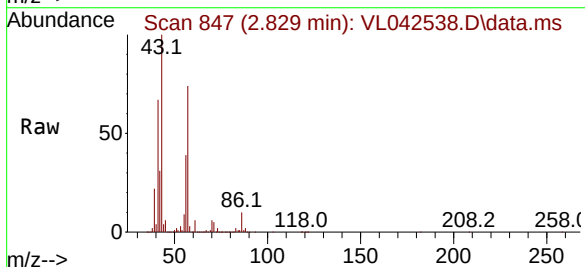
Instrument :
MSVOA_L
ClientSampleId :
VL0514ABS01

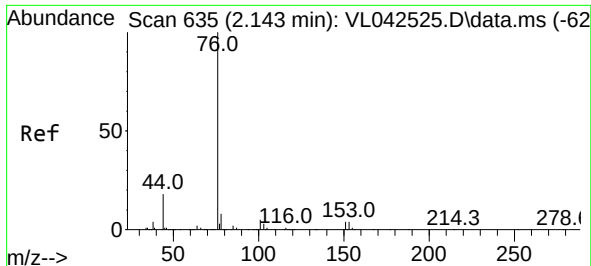
Tgt Ion:	43	Resp:	312927
Ion	Ratio	Lower	Upper
43	100		
45	9.6	7.9	11.9
61	9.0	7.1	10.7
70	8.7	6.9	10.3



#26
Hexane
Concen: 10.262 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.013 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

Tgt Ion:	57	Resp:	138195
Ion	Ratio	Lower	Upper
57	100		
41	95.6	76.1	114.1
43	227.4	188.9	283.3
56	56.9	45.2	67.8

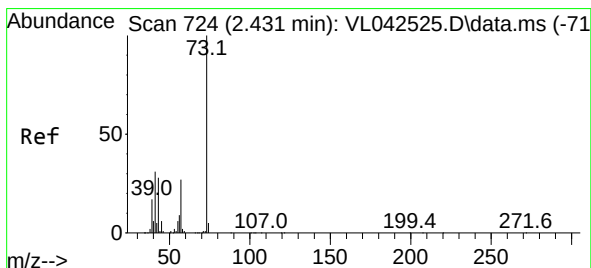
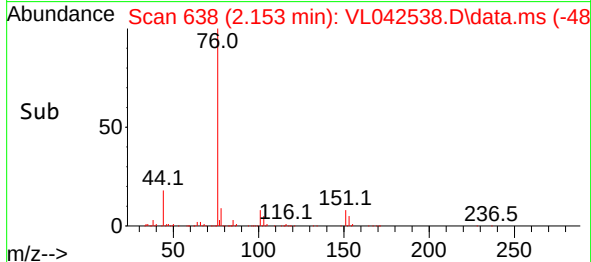
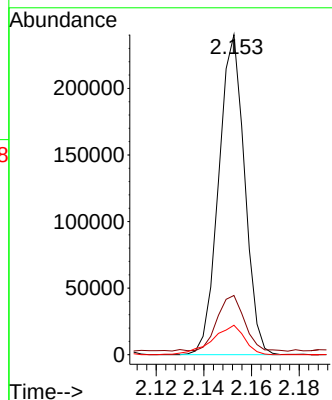
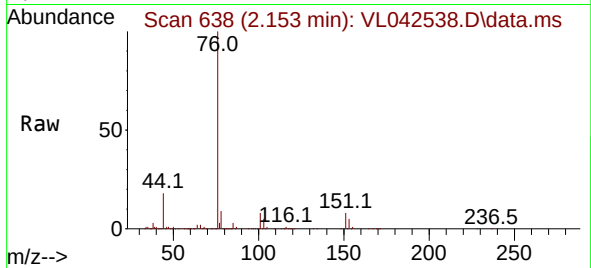




#27
Carbon Disulfide
Concen: 10.428 ppbv
RT: 2.153 min Scan# 61
Delta R.T. 0.010 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

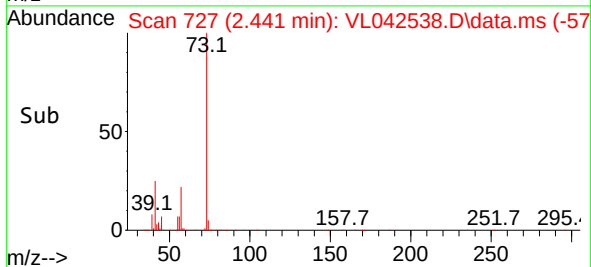
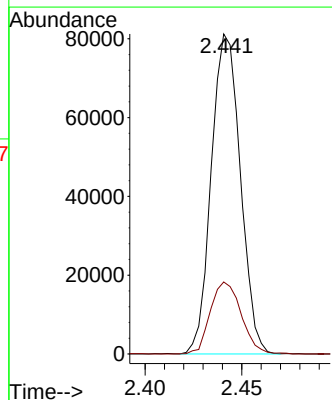
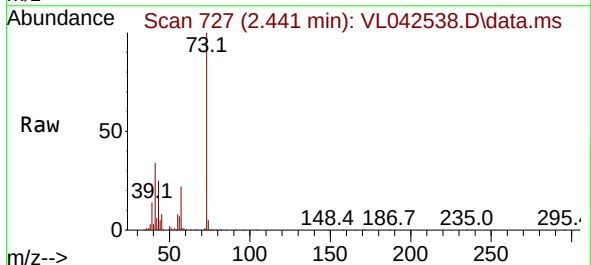
Instrument :
MSVOA_L
ClientSampleId :
VL0514ABS01

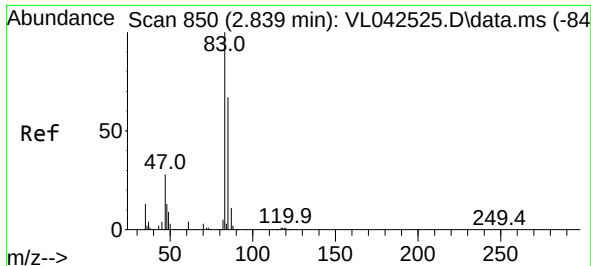
Tgt Ion: 76 Resp: 181278
Ion Ratio Lower Upper
76 100
44 18.5 17.1 25.7
78 11.4 8.6 12.8



#28
Methyl tert-Butyl Ether
Concen: 11.338 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.010 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

Tgt Ion: 73 Resp: 84826
Ion Ratio Lower Upper
73 100
57 24.0 20.3 30.5





#29

Chloroform

Concen: 8.872 ppbv

RT: 2.852 min Scan# 81

Delta R.T. 0.013 min

Lab File: VL042538.D

Acq: 14 May 2025 11:53

Instrument :

MSVOA_L

ClientSampleId :

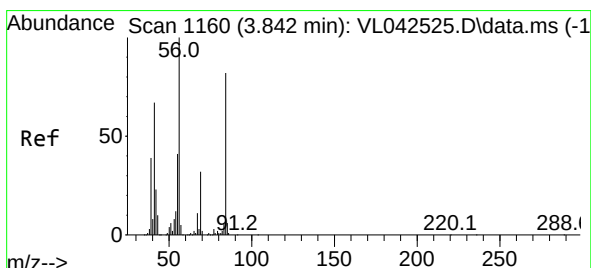
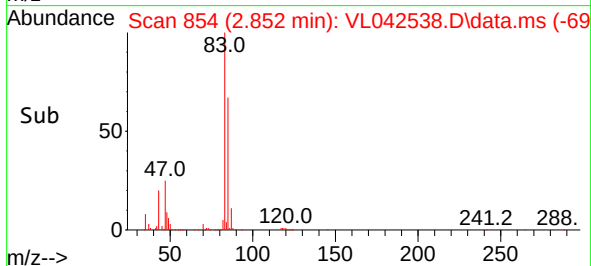
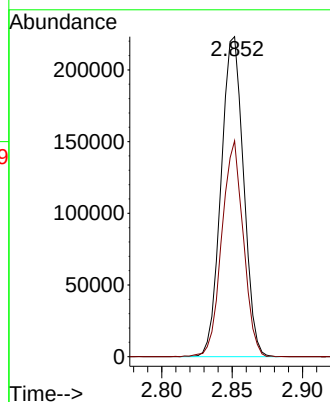
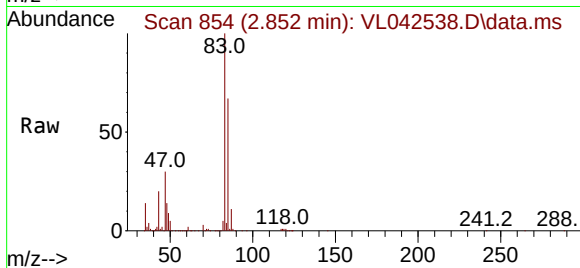
VL0514ABS01

Tgt Ion: 83 Resp: 247796

Ion Ratio Lower Upper

83 100

85 67.4 53.5 80.3



#30

Cyclohexane

Concen: 10.850 ppbv

RT: 3.858 min Scan# 1165

Delta R.T. 0.016 min

Lab File: VL042538.D

Acq: 14 May 2025 11:53

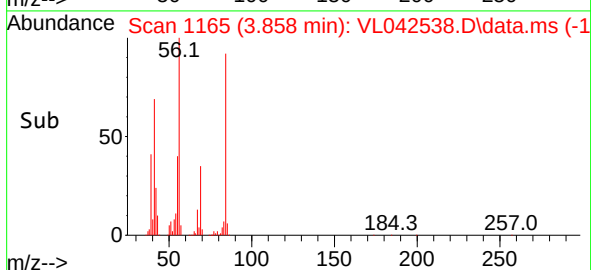
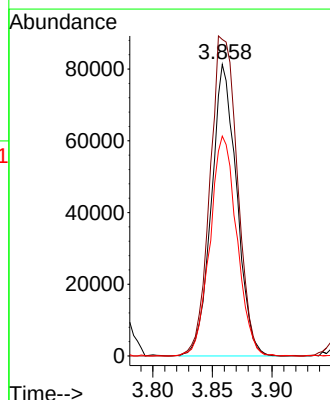
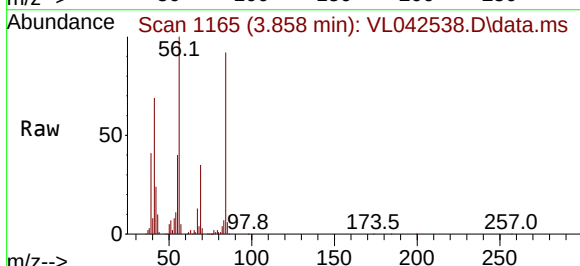
Tgt Ion: 84 Resp: 119963

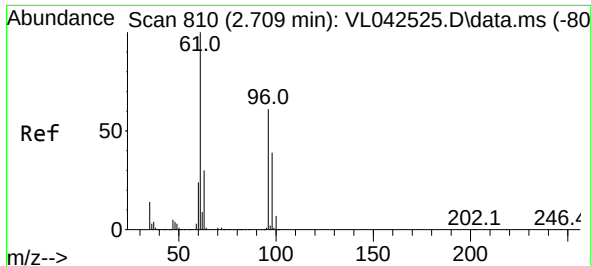
Ion Ratio Lower Upper

84 100

56 118.8 97.1 145.7

41 79.9 66.6 99.8

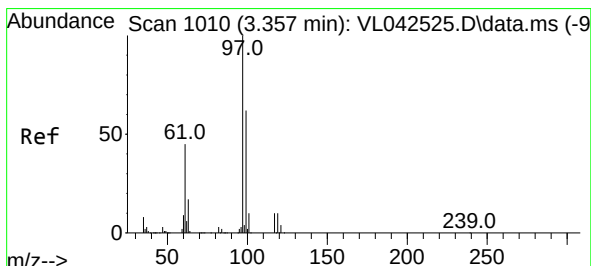
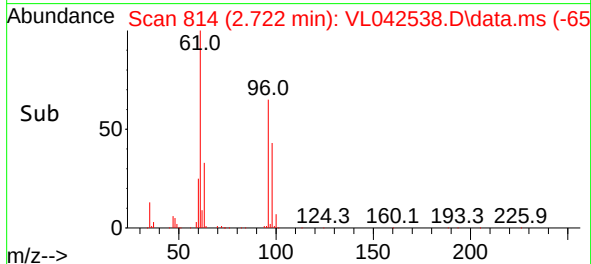
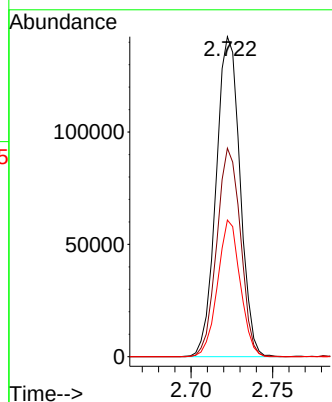
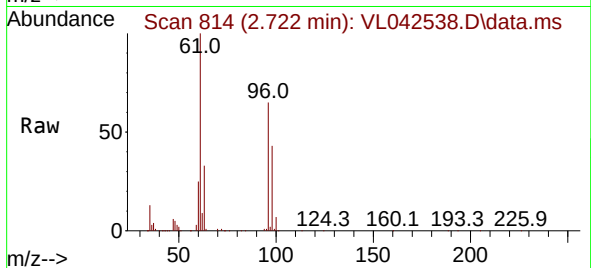




#31
 cis-1,2-Dichloroethene
 Concen: 9.553 ppbv
 RT: 2.722 min Scan# 810
 Delta R.T. 0.013 min
 Lab File: VL042538.D
 Acq: 14 May 2025 11:53

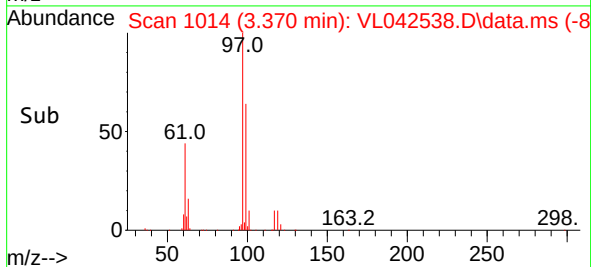
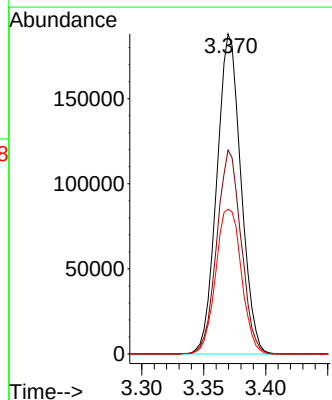
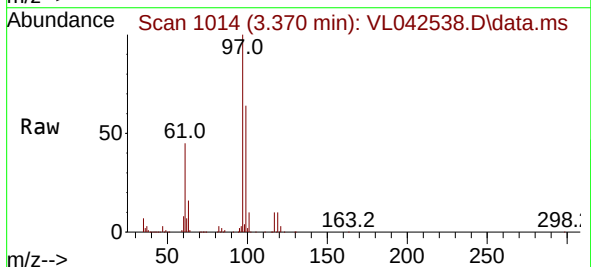
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0514ABS01

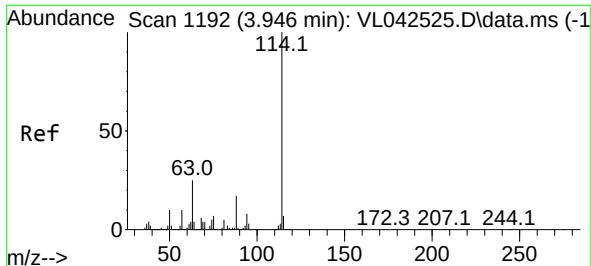
Tgt Ion: 61 Resp: 145273
 Ion Ratio Lower Upper
 61 100
 96 65.1 48.9 73.3
 98 42.7 31.4 47.2



#32
 1,1,1-Trichloroethane
 Concen: 8.881 ppbv
 RT: 3.370 min Scan# 1014
 Delta R.T. 0.013 min
 Lab File: VL042538.D
 Acq: 14 May 2025 11:53

Tgt Ion: 97 Resp: 255956
 Ion Ratio Lower Upper
 97 100
 99 64.1 50.1 75.1
 61 48.3 38.2 57.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. 0.016 min

Lab File: VL042538.D

Acq: 14 May 2025 11:53

Instrument :

MSVOA_L

ClientSampleId :

VL0514ABS01

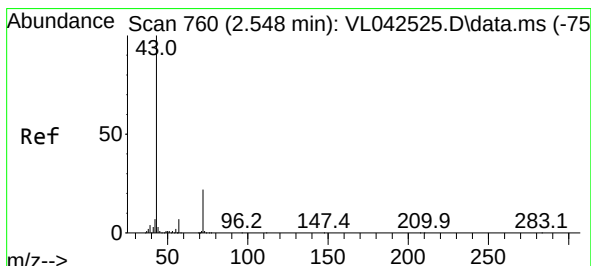
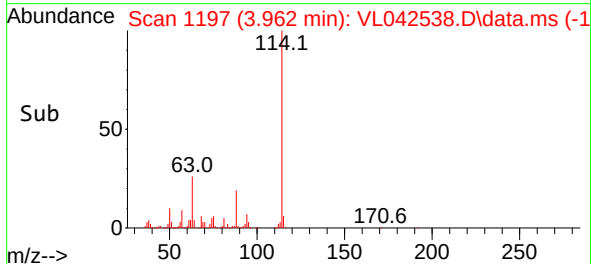
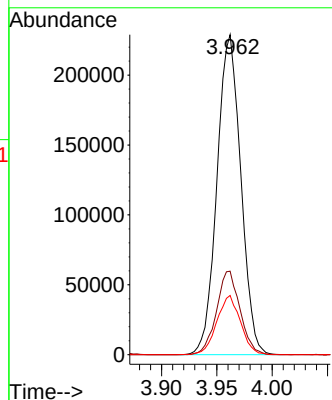
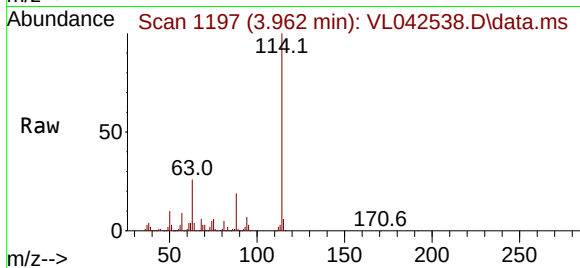
Tgt Ion:114 Resp: 342869

Ion Ratio Lower Upper

114 100

63 25.8 20.4 30.6

88 18.4 14.5 21.7



#34

2-Butanone

Concen: 8.720 ppbv

RT: 2.557 min Scan# 763

Delta R.T. 0.010 min

Lab File: VL042538.D

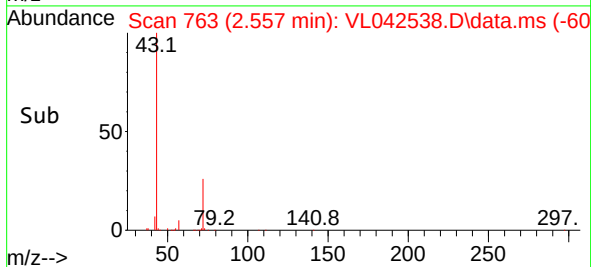
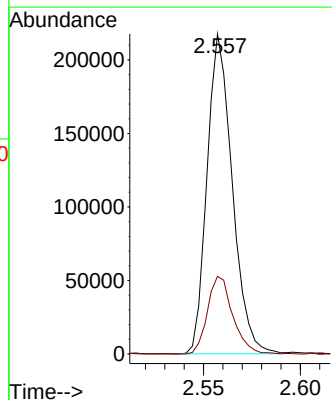
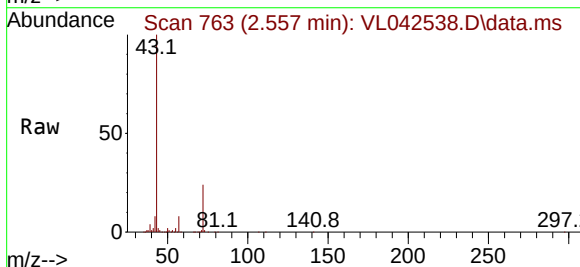
Acq: 14 May 2025 11:53

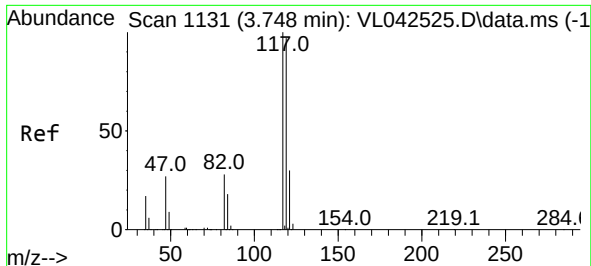
Tgt Ion: 43 Resp: 197074

Ion Ratio Lower Upper

43 100

72 24.4 18.7 28.1

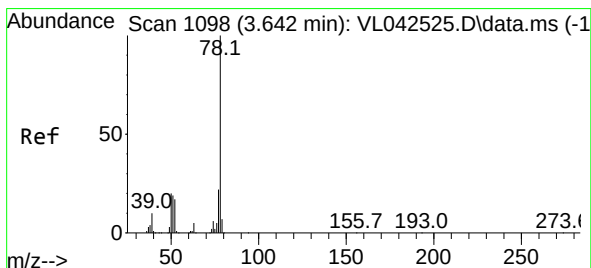
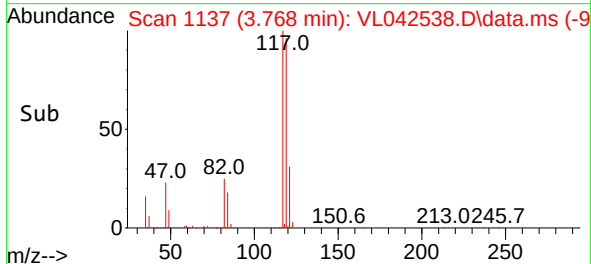
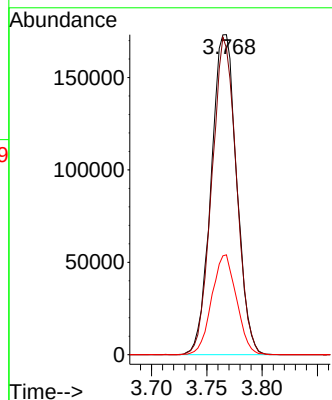
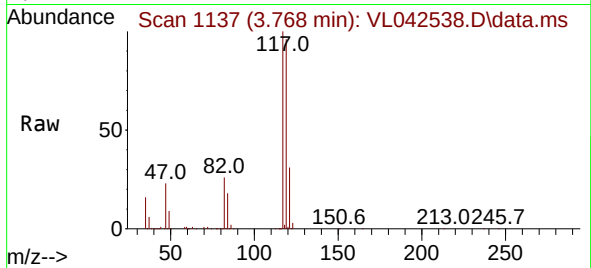




#35
Carbon Tetrachloride
Concen: 8.997 ppbv
RT: 3.768 min Scan# 1131
Delta R.T. 0.019 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

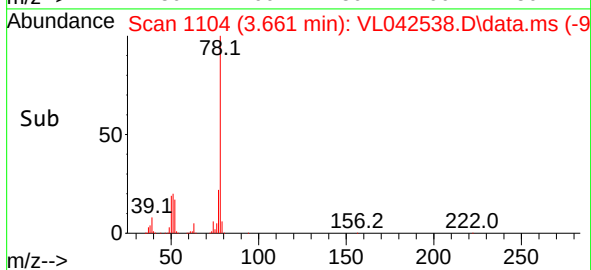
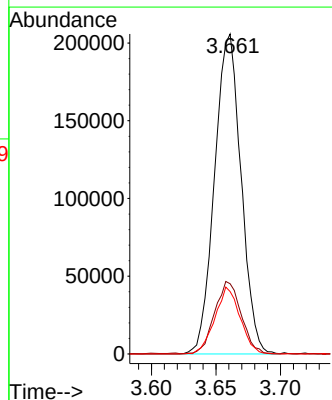
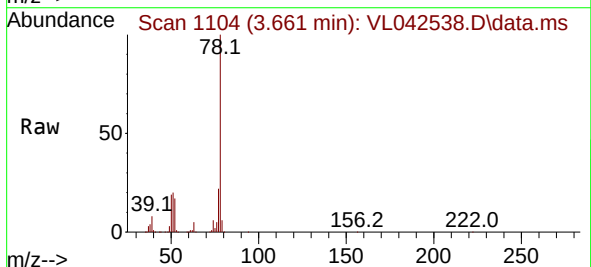
Instrument :
MSVOA_L
ClientSampleId :
VL0514ABS01

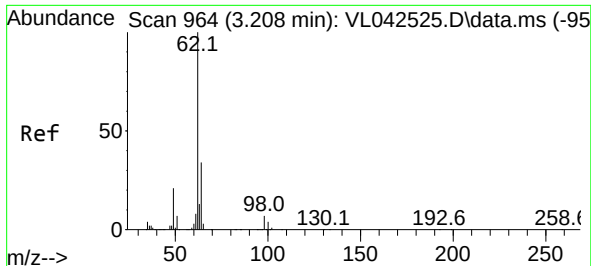
Tgt Ion:117 Resp: 277335
Ion Ratio Lower Upper
117 100
119 95.8 77.7 116.5
121 31.2 24.0 36.0



#36
Benzene
Concen: 9.661 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. 0.019 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

Tgt Ion: 78 Resp: 293547
Ion Ratio Lower Upper
78 100
77 21.9 17.4 26.2
50 19.5 16.3 24.5





#37

1,2-Dichloroethane

Concen: 8.932 ppbv

RT: 3.221 min Scan# 9

Delta R.T. 0.013 min

Lab File: VL042538.D

Acq: 14 May 2025 11:53

Instrument :

MSVOA_L

ClientSampleId :

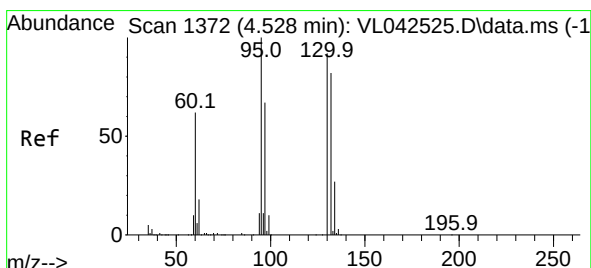
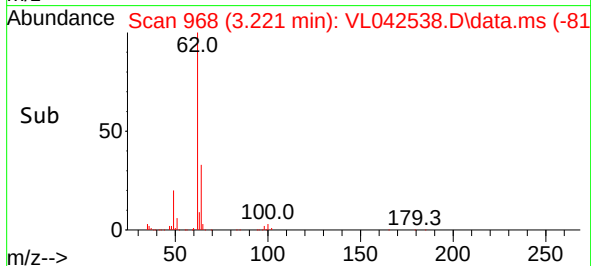
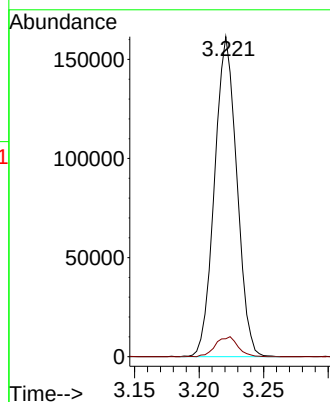
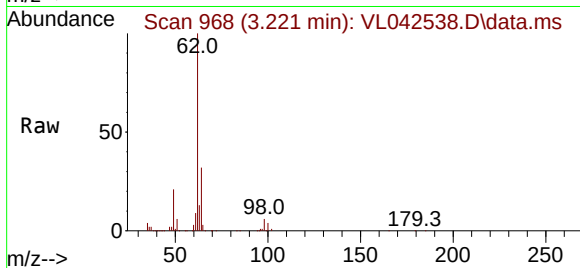
VL0514ABS01

Tgt Ion: 62 Resp: 193600

Ion Ratio Lower Upper

62 100

98 6.3 5.0 7.4



#38

Trichloroethene

Concen: 9.261 ppbv

RT: 4.551 min Scan# 1379

Delta R.T. 0.023 min

Lab File: VL042538.D

Acq: 14 May 2025 11:53

Tgt Ion:130 Resp: 122351

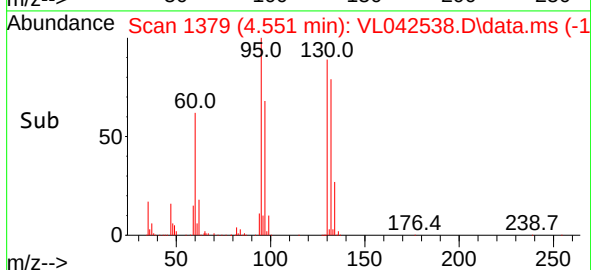
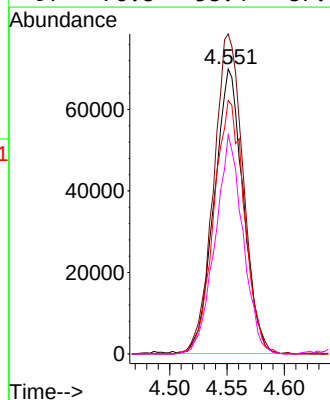
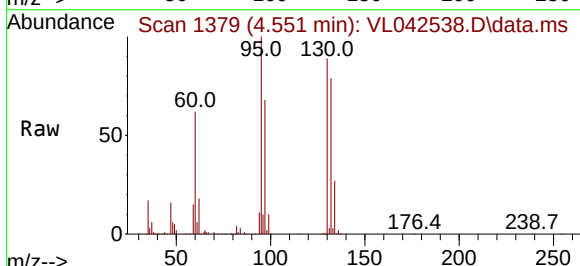
Ion Ratio Lower Upper

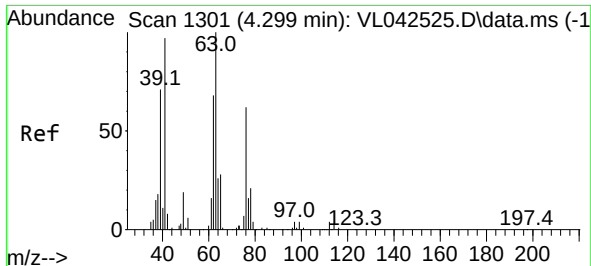
130 100

95 112.3 87.0 130.4

132 89.0 71.1 106.7

97 76.8 58.4 87.6





#39

1,2-Dichloropropane

Concen: 9.148 ppbv

RT: 4.315 min Scan# 11

Delta R.T. 0.016 min

Lab File: VL042538.D

Acq: 14 May 2025 11:53

Instrument :

MSVOA_L

ClientSampleId :

VL0514ABS01

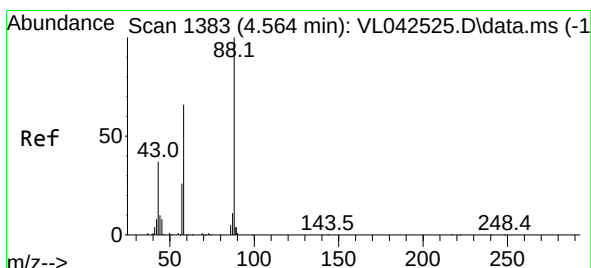
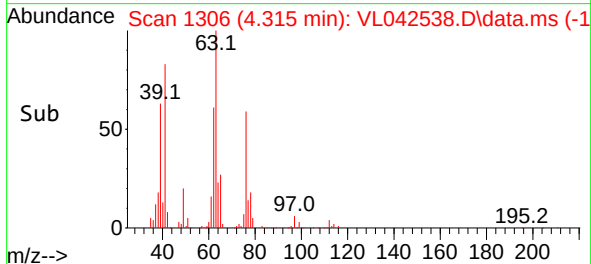
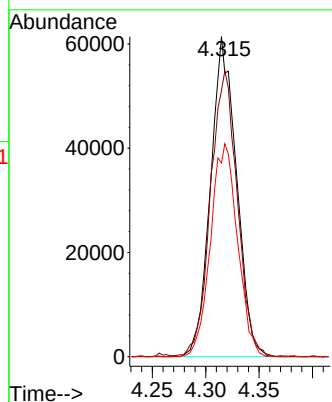
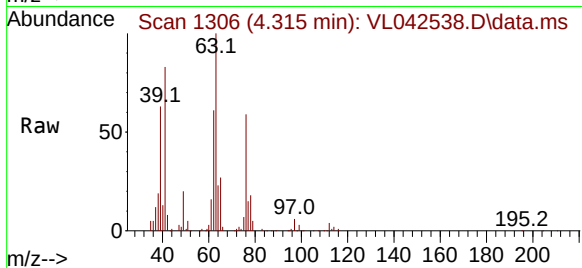
Tgt Ion: 63 Resp: 103541

Ion Ratio Lower Upper

63 100

41 82.9 77.5 116.3

62 60.5 54.6 82.0



#40

1,4-Dioxane

Concen: 10.292 ppbv

RT: 4.583 min Scan# 1389

Delta R.T. 0.019 min

Lab File: VL042538.D

Acq: 14 May 2025 11:53

Tgt Ion: 88 Resp: 47286

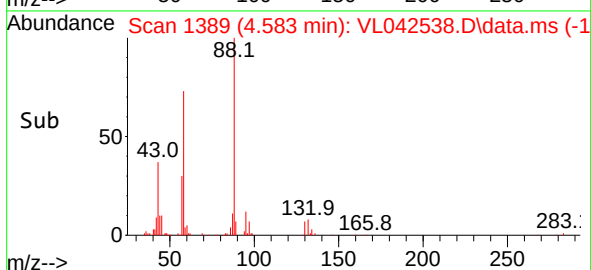
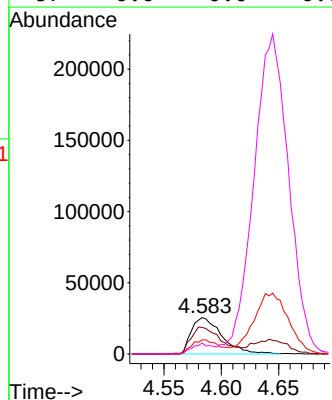
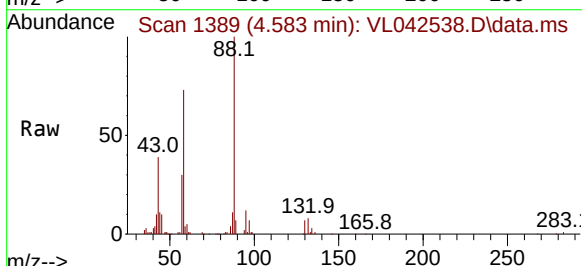
Ion Ratio Lower Upper

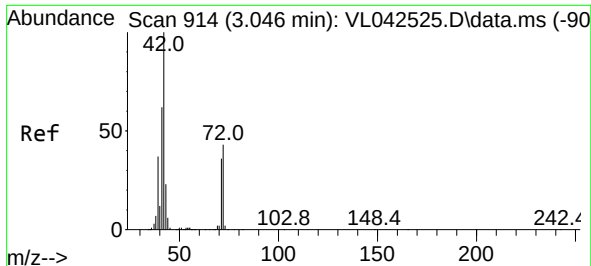
88 100

58 71.7 58.2 87.2

43 35.4 27.9 41.9

57 0.0 0.0 0.0





#41

Tetrahydrofuran

Concen: 10.403 ppbv

RT: 3.056 min Scan# 914

Delta R.T. 0.010 min

Lab File: VL042538.D

Acq: 14 May 2025 11:53

Instrument :

MSVOA_L

ClientSampleId :

VL0514ABS01

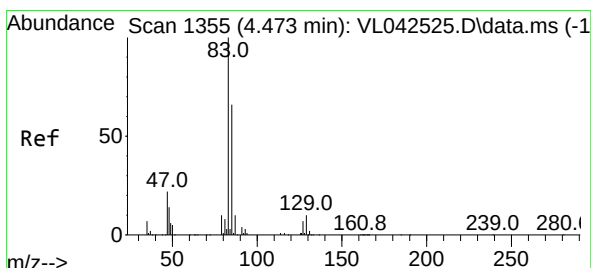
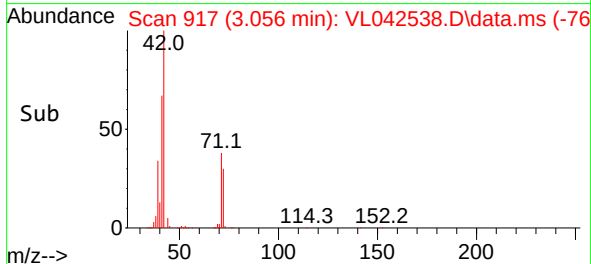
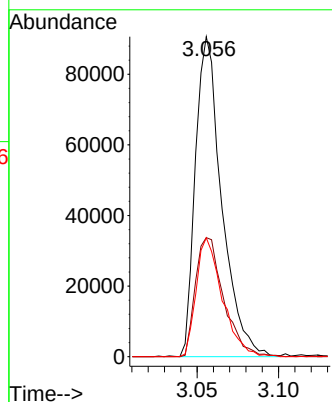
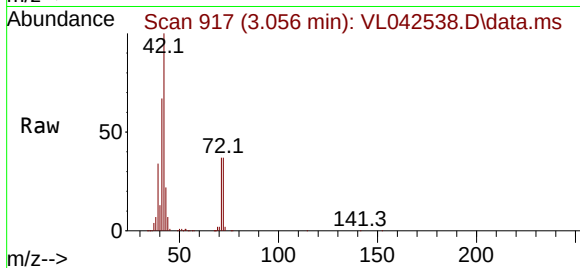
Tgt Ion: 42 Resp: 101765

Ion Ratio Lower Upper

42 100

72 40.0 32.7 49.1

71 37.0 30.4 45.6



#42

Bromodichloromethane

Concen: 9.111 ppbv

RT: 4.493 min Scan# 1361

Delta R.T. 0.019 min

Lab File: VL042538.D

Acq: 14 May 2025 11:53

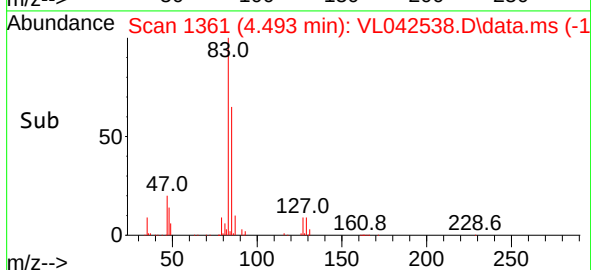
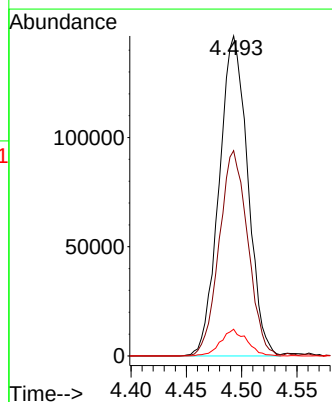
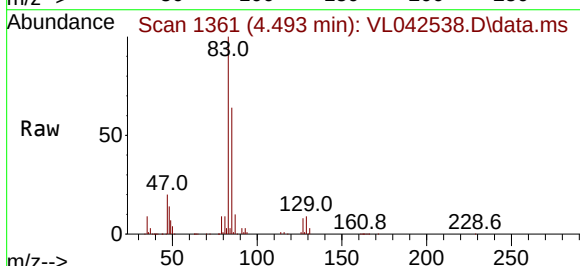
Tgt Ion: 83 Resp: 263548

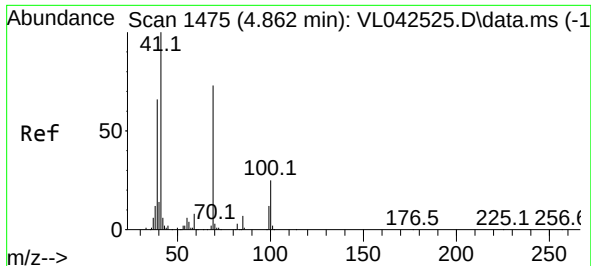
Ion Ratio Lower Upper

83 100

85 64.1 52.6 79.0

127 8.4 6.0 9.0

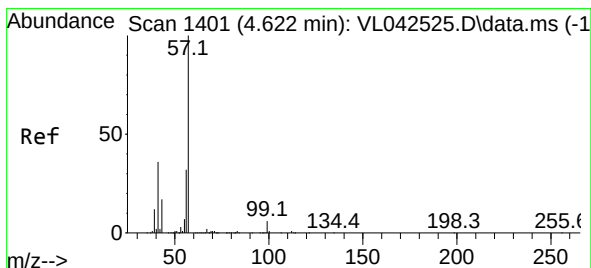
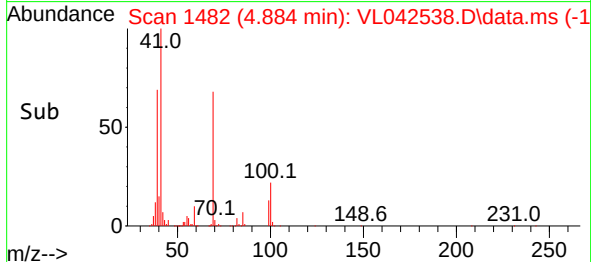
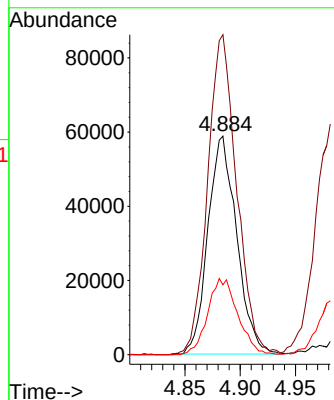
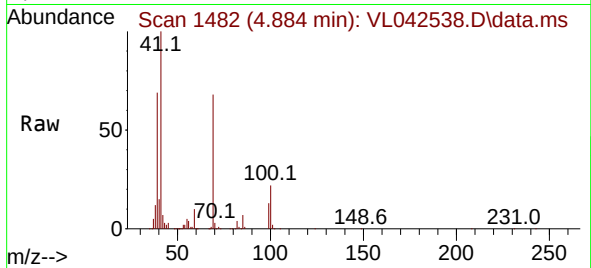




#43
Methyl Methacrylate
Concen: 10.429 ppbv
RT: 4.884 min Scan# 1475
Delta R.T. 0.023 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

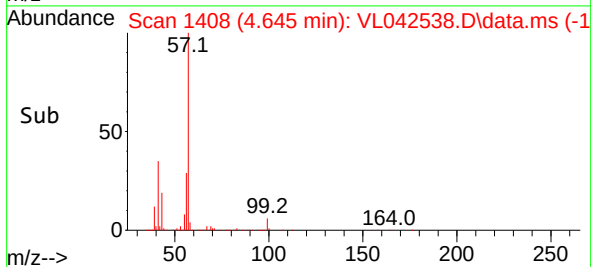
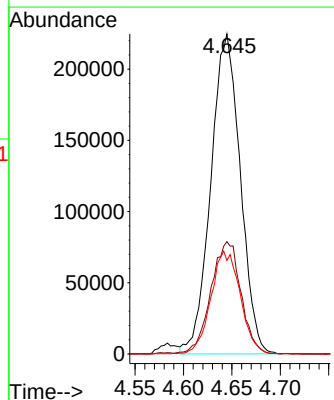
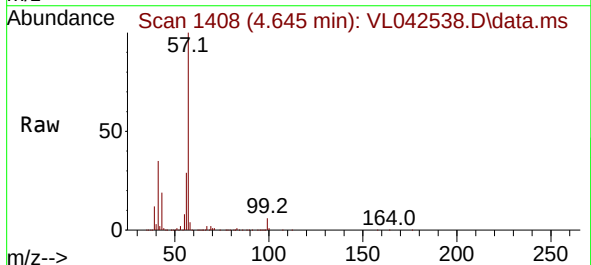
Instrument :
MSVOA_L
ClientSampleId :
VL0514ABS01

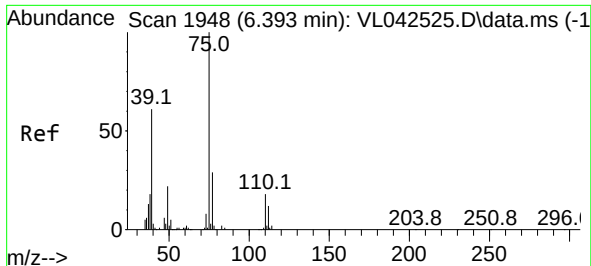
Tgt Ion: 69 Resp: 106126
Ion Ratio Lower Upper
69 100
41 148.3 119.9 179.9
100 36.5 28.4 42.6



#44
2,2,4-Trimethylpentane
Concen: 9.887 ppbv
RT: 4.645 min Scan# 1408
Delta R.T. 0.023 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

Tgt Ion: 57 Resp: 476041
Ion Ratio Lower Upper
57 100
41 36.0 28.3 42.5
56 32.1 25.9 38.9

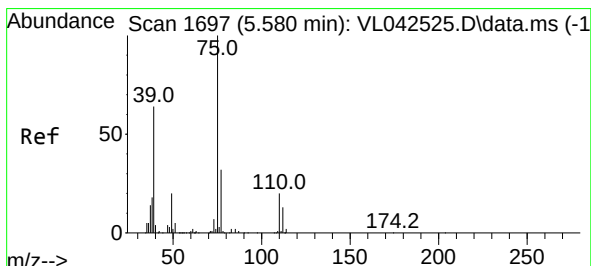
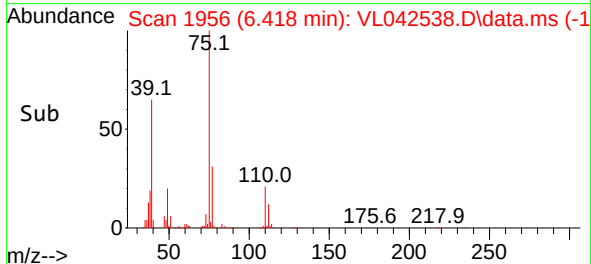
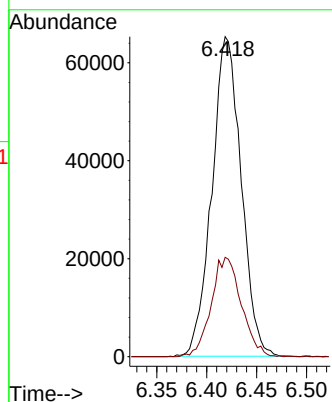
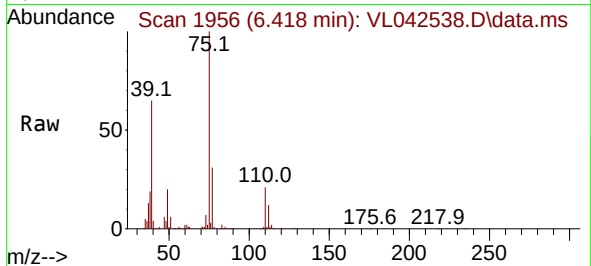




#45
 t-1,3-Dichloropropene
 Concen: 10.223 ppbv
 RT: 6.418 min Scan# 1948
 Delta R.T. 0.026 min
 Lab File: VL042538.D
 Acq: 14 May 2025 11:53

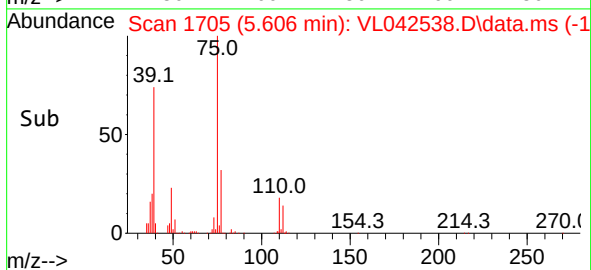
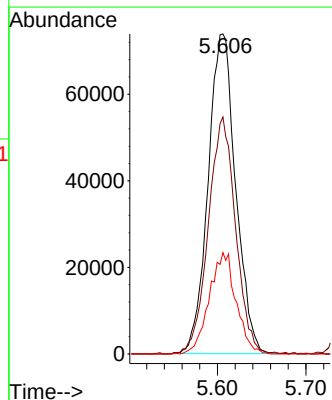
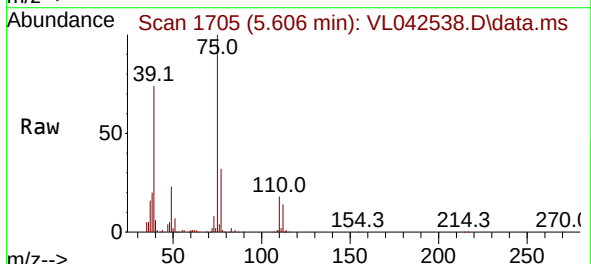
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0514ABS01

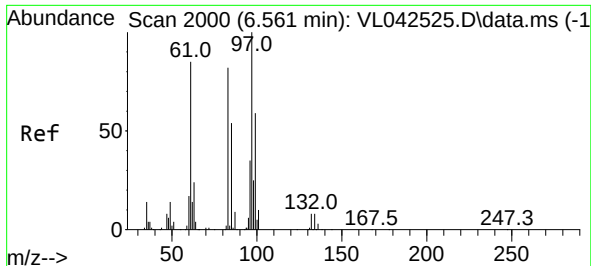
Tgt Ion: 75 Resp: 132911
 Ion Ratio Lower Upper
 75 100
 77 31.1 23.3 34.9



#46
 cis-1,3-Dichloropropene
 Concen: 10.239 ppbv
 RT: 5.606 min Scan# 1705
 Delta R.T. 0.026 min
 Lab File: VL042538.D
 Acq: 14 May 2025 11:53

Tgt Ion: 75 Resp: 160141
 Ion Ratio Lower Upper
 75 100
 39 73.9 51.2 76.8
 77 31.7 25.4 38.0

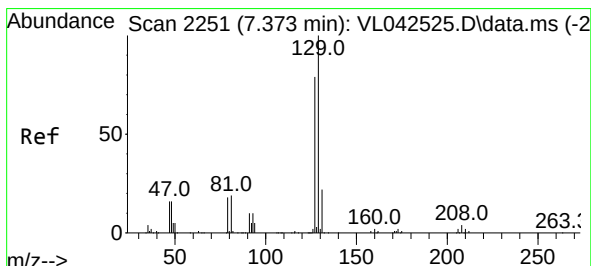
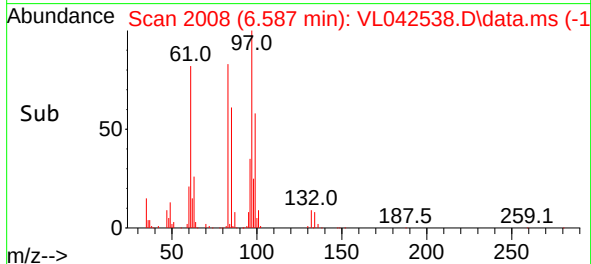
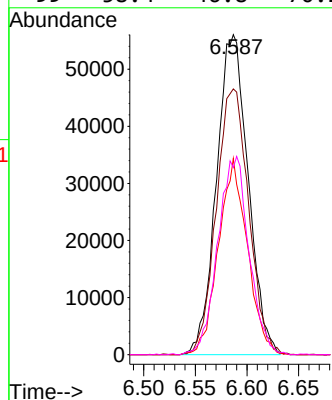
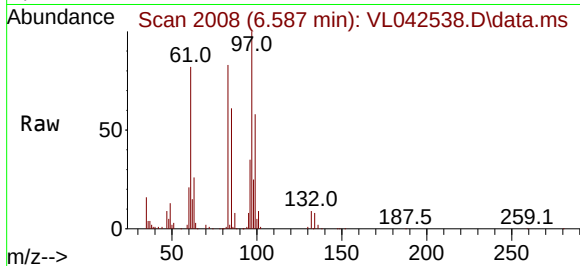




#47
1,1,2-Trichloroethane
Concen: 8.967 ppbv
RT: 6.587 min Scan# 2008
Delta R.T. 0.026 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

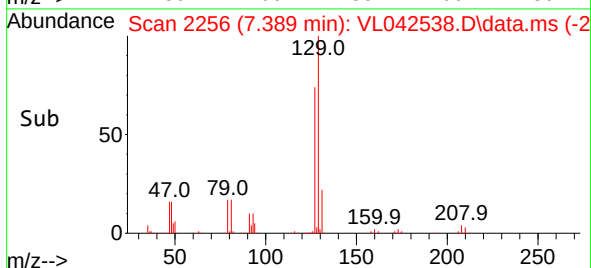
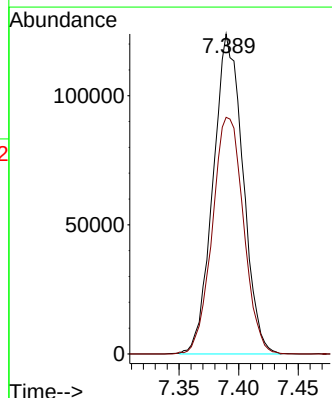
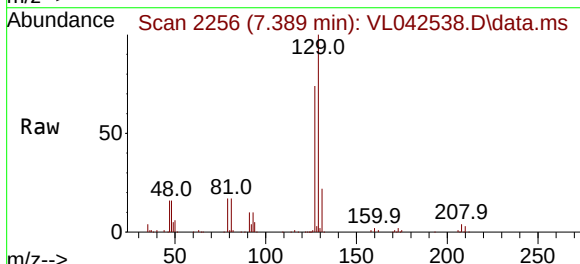
Instrument :
MSVOA_L
ClientSampleId :
VL0514ABS01

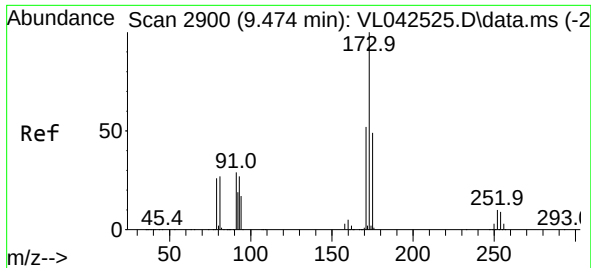
Tgt Ion: 97	Resp: 119517		
Ion	Ratio	Lower	Upper
97	100		
83	83.1	66.0	99.0
85	61.3	42.8	64.2
99	58.4	46.8	70.2



#48
Dibromochloromethane
Concen: 9.676 ppbv
RT: 7.389 min Scan# 2256
Delta R.T. 0.016 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

Tgt Ion:129	Resp: 215320
Ion Ratio	Lower Upper
129 100	
127 77.3	39.6 118.8

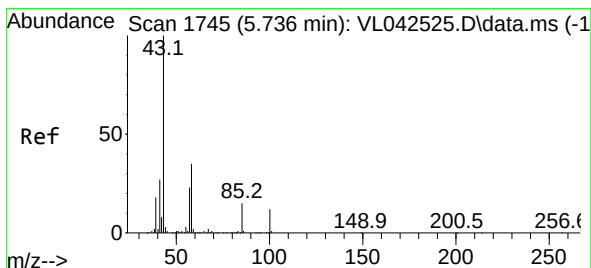
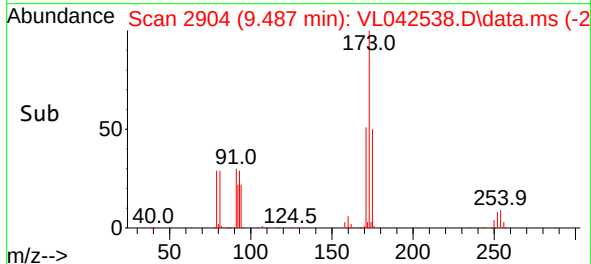
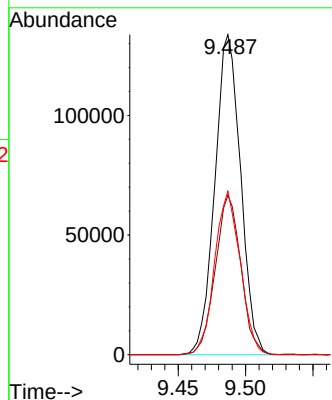
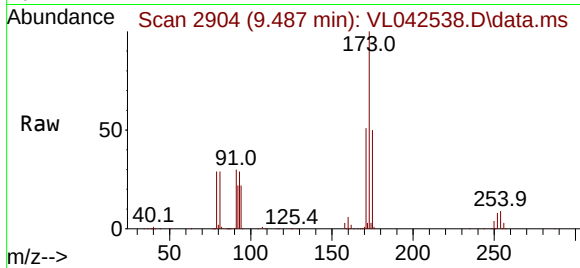




#49
Bromoform
Concen: 9.740 ppbv
RT: 9.487 min Scan# 2904
Delta R.T. 0.013 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

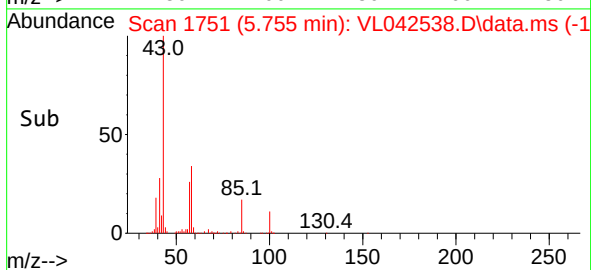
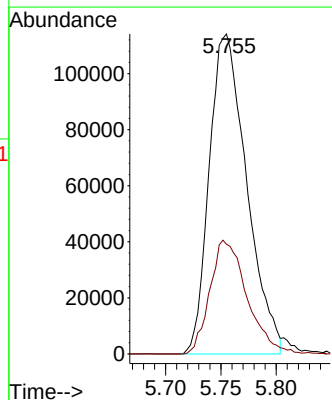
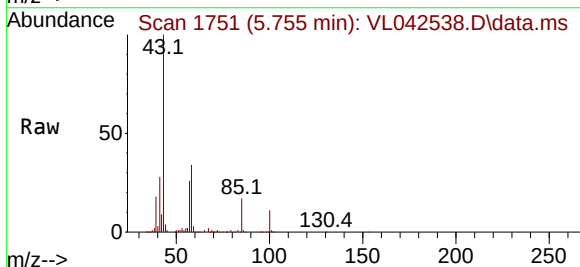
Instrument :
MSVOA_L
ClientSampleId :
VL0514ABS01

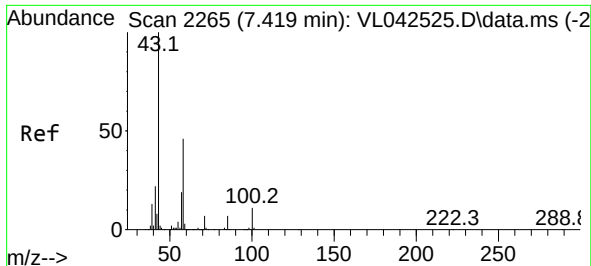
Tgt Ion:173 Resp: 177871
Ion Ratio Lower Upper
173 100
175 49.5 39.1 58.7
171 50.7 41.8 62.8



#50
4-Methyl-2-Pentanone
Concen: 10.107 ppbv
RT: 5.755 min Scan# 1751
Delta R.T. 0.019 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

Tgt Ion: 43 Resp: 268277
Ion Ratio Lower Upper
43 100
58 35.4 28.6 42.8

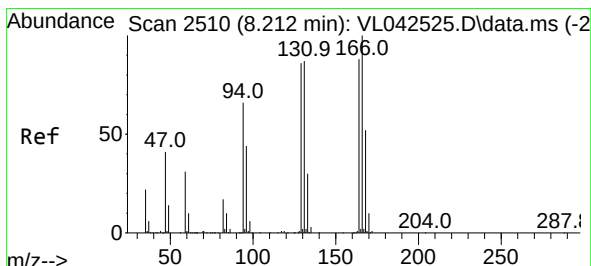
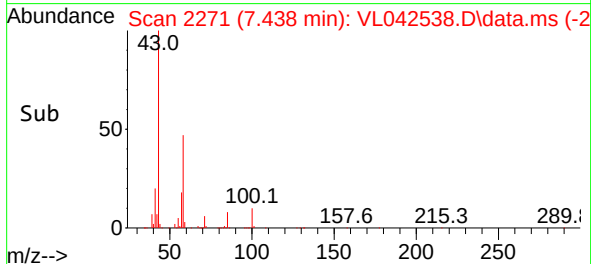
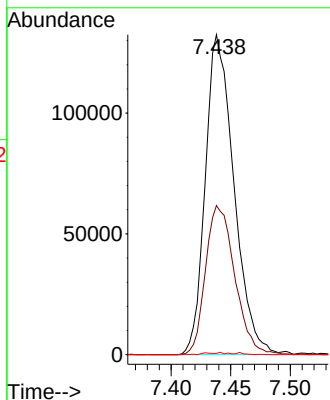
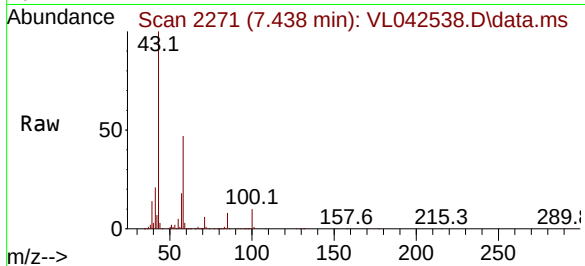




#51
2-Hexanone
Concen: 11.195 ppbv
RT: 7.438 min Scan# 211
Delta R.T. 0.019 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

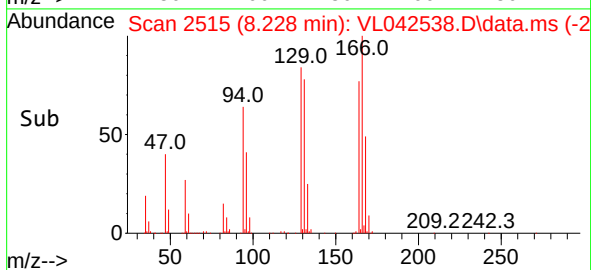
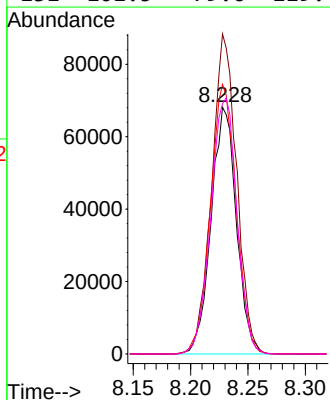
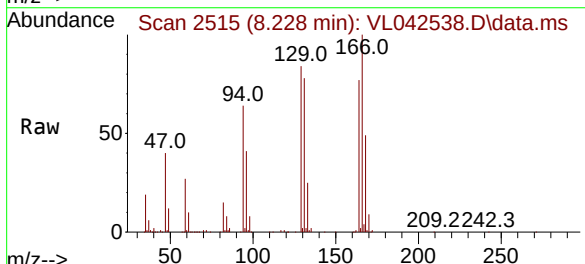
Instrument :
MSVOA_L
ClientSampleId :
VL0514ABS01

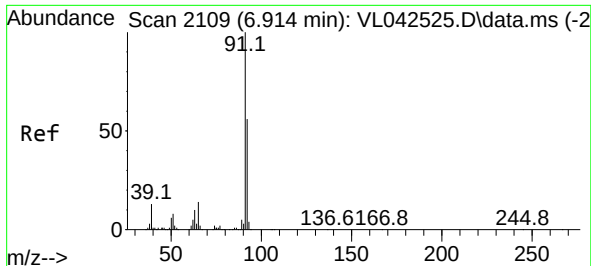
Tgt Ion: 43 Resp: 221041
Ion Ratio Lower Upper
43 100
58 47.7 37.5 56.3
98 0.7 0.9 1.3#



#52
Tetrachloroethene
Concen: 8.979 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. 0.016 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

Tgt Ion: 164 Resp: 104385
Ion Ratio Lower Upper
164 100
166 129.7 91.3 136.9
129 109.3 78.9 118.3
131 101.5 79.6 119.4

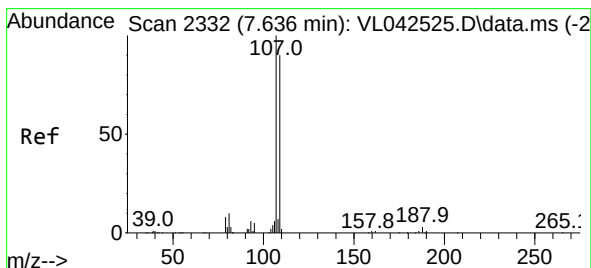
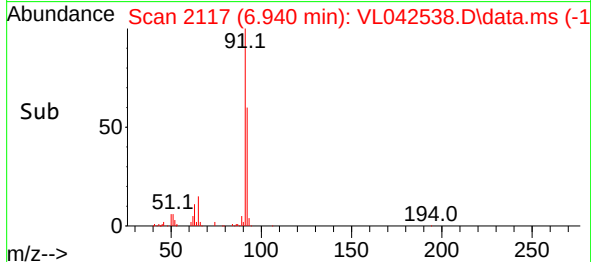
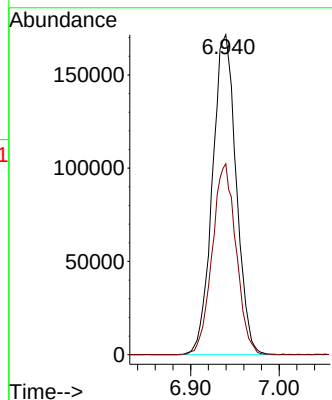
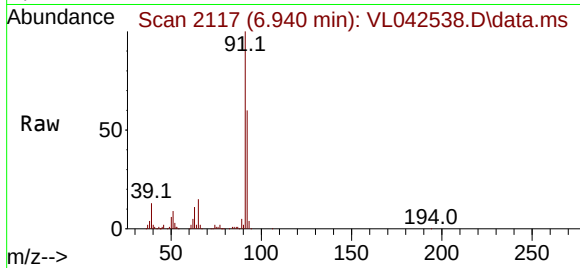




#53
Toluene
Concen: 10.735 ppbv
RT: 6.940 min Scan# 2109
Delta R.T. 0.026 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

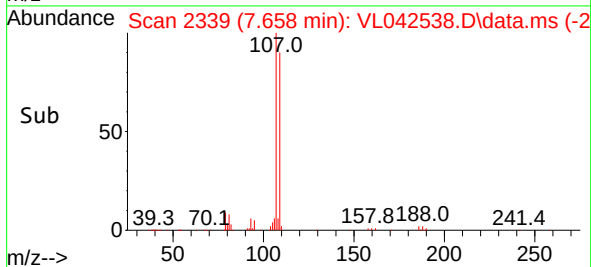
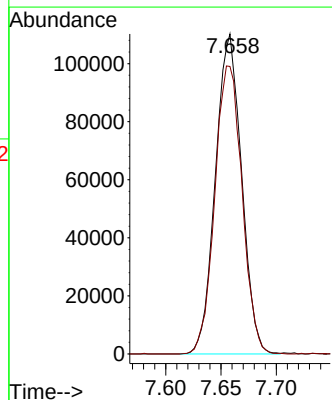
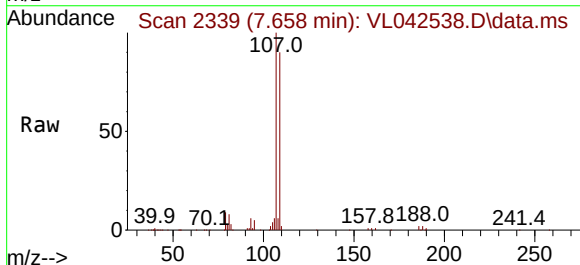
Instrument :
MSVOA_L
ClientSampleId :
VL0514ABS01

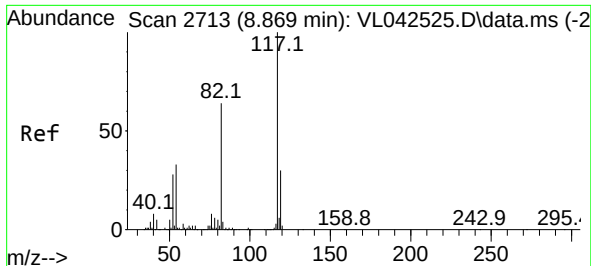
Tgt Ion: 91 Resp: 320104
Ion Ratio Lower Upper
91 100
92 59.9 47.8 71.6



#54
1,2-Dibromoethane
Concen: 9.315 ppbv
RT: 7.658 min Scan# 2339
Delta R.T. 0.022 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

Tgt Ion: 107 Resp: 181316
Ion Ratio Lower Upper
107 100
109 89.9 72.2 108.4

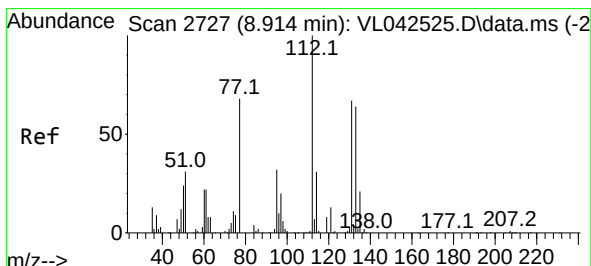
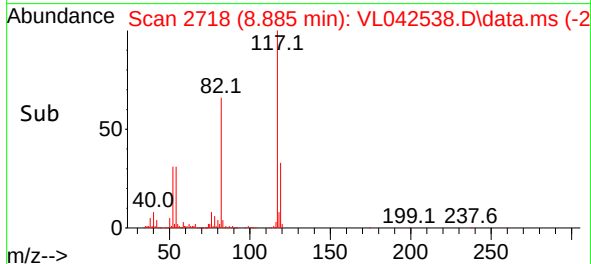
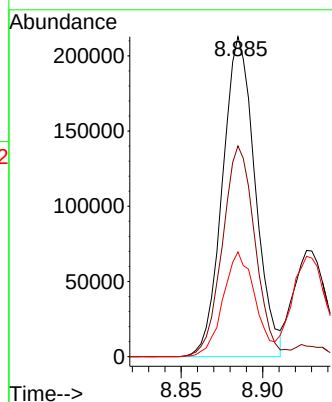
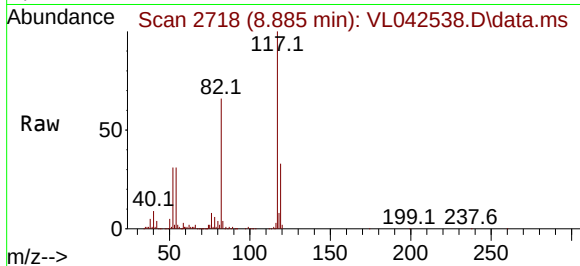




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 21
Delta R.T. 0.016 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

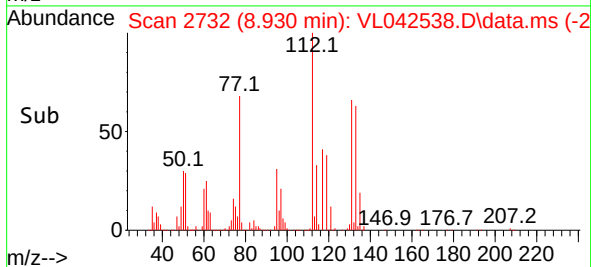
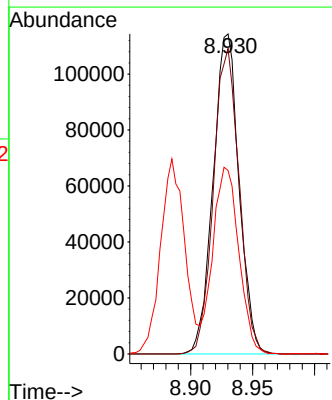
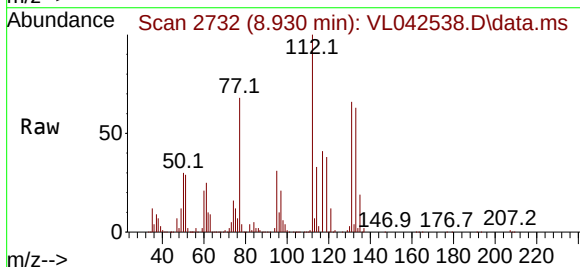
Instrument :
MSVOA_L
ClientSampleId :
VL0514ABS01

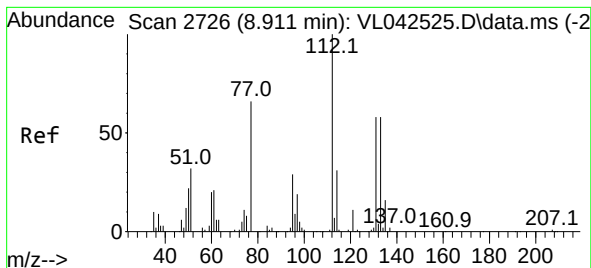
Tgt Ion:117 Resp: 296340
Ion Ratio Lower Upper
117 100
82 69.2 55.0 82.4
119 32.3 25.8 38.6



#56
1,1,1,2-Tetrachloroethane
Concen: 9.064 ppbv
RT: 8.930 min Scan# 2732
Delta R.T. 0.016 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

Tgt Ion:131 Resp: 166531
Ion Ratio Lower Upper
131 100
133 94.4 77.4 116.2
119 59.5 49.0 73.4





#57

Chlorobenzene

Concen: 9.248 ppbv

RT: 8.924 min Scan# 21

Delta R.T. 0.013 min

Lab File: VL042538.D

Acq: 14 May 2025 11:53

Instrument :

MSVOA_L

ClientSampleId :

VL0514ABS01

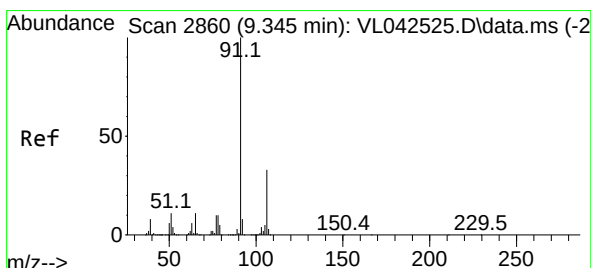
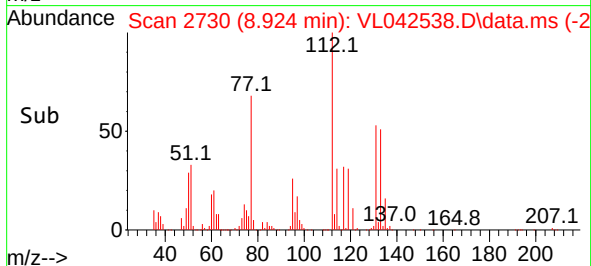
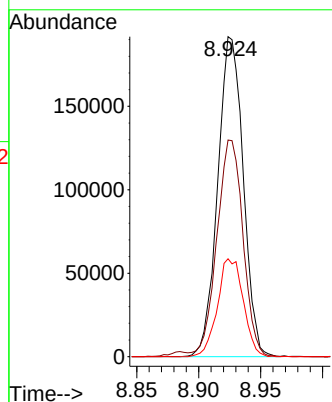
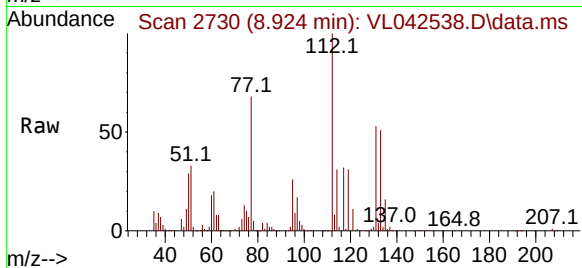
Tgt Ion:112 Resp: 275176

Ion Ratio Lower Upper

112 100

77 67.6 53.6 80.4

114 30.6 28.2 34.4



#58

Ethyl Benzene

Concen: 11.554 ppbv

RT: 9.357 min Scan# 2864

Delta R.T. 0.013 min

Lab File: VL042538.D

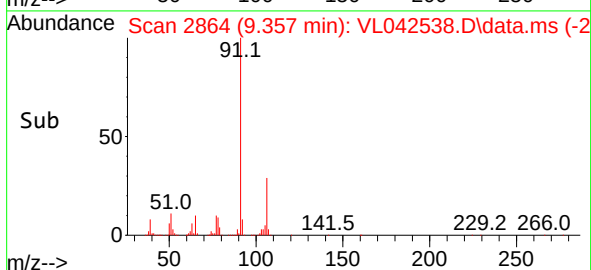
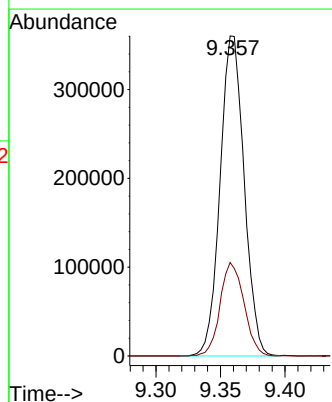
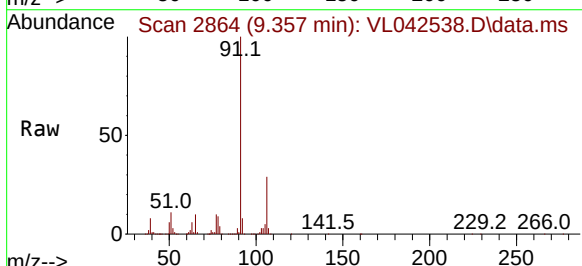
Acq: 14 May 2025 11:53

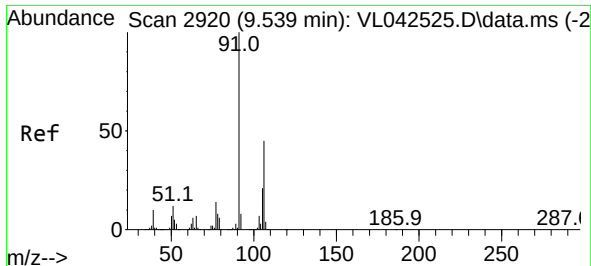
Tgt Ion: 91 Resp: 466684

Ion Ratio Lower Upper

91 100

106 29.2 26.0 39.0





#59

m/p-Xylene

Concen: 10.686 ppbv

RT: 9.555 min Scan# 29

Delta R.T. 0.016 min

Lab File: VL042538.D

Acq: 14 May 2025 11:53

Instrument :

MSVOA_L

ClientSampleId :

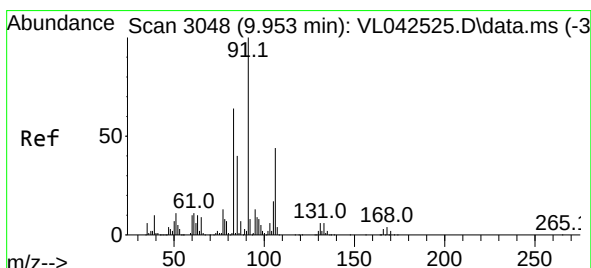
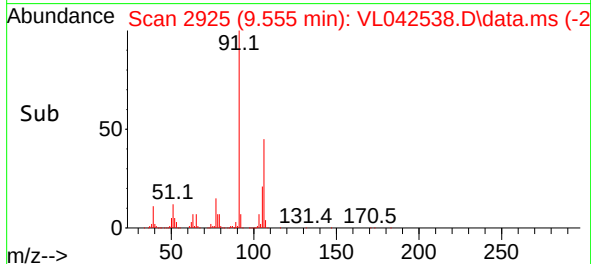
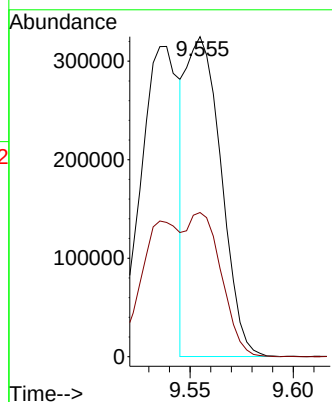
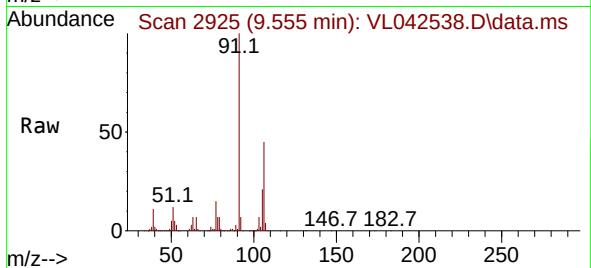
VL0514ABS01

Tgt Ion: 91 Resp: 383319

Ion Ratio Lower Upper

91 100

106 92.4 0.0 0.0#



#60

o-Xylene

Concen: 11.290 ppbv

RT: 9.969 min Scan# 3053

Delta R.T. 0.016 min

Lab File: VL042538.D

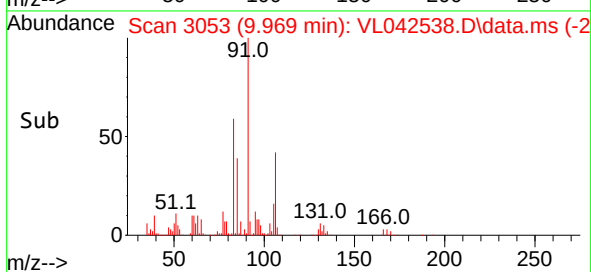
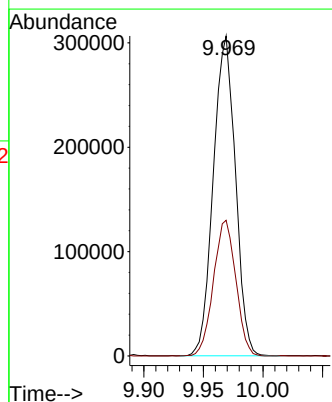
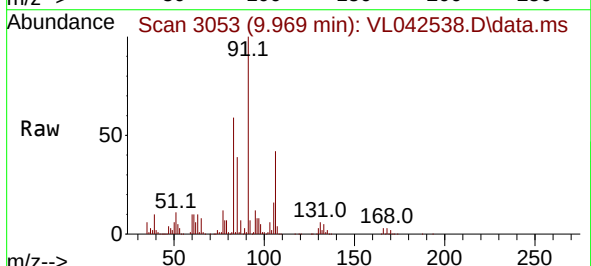
Acq: 14 May 2025 11:53

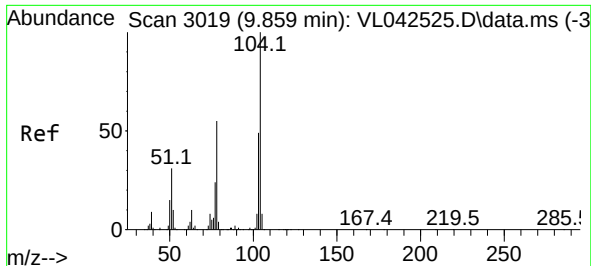
Tgt Ion: 91 Resp: 395533

Ion Ratio Lower Upper

91 100

106 42.9 21.6 64.6

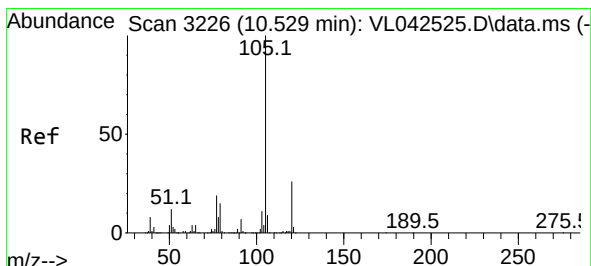
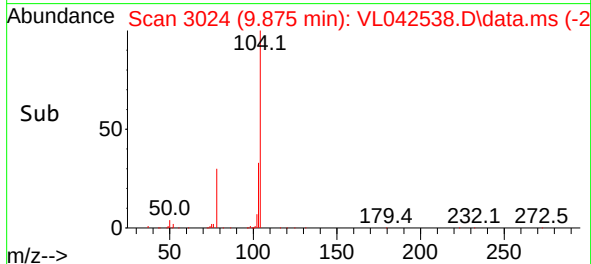
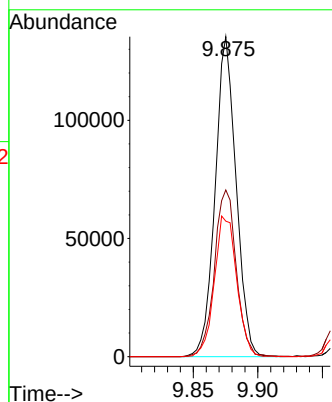
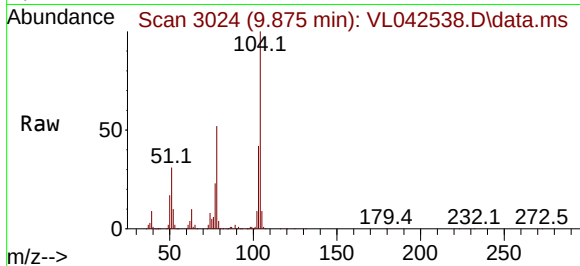




#61
Styrene
Concen: 11.763 ppbv
RT: 9.875 min Scan# 3019
Delta R.T. 0.016 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

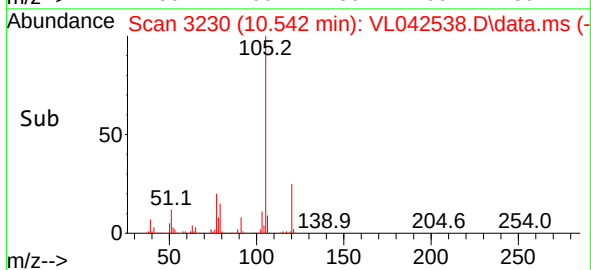
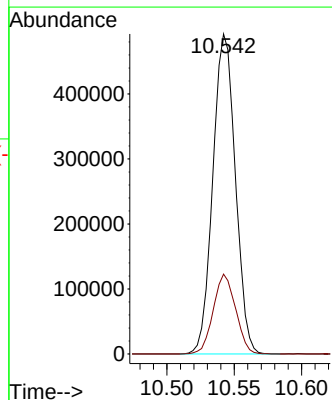
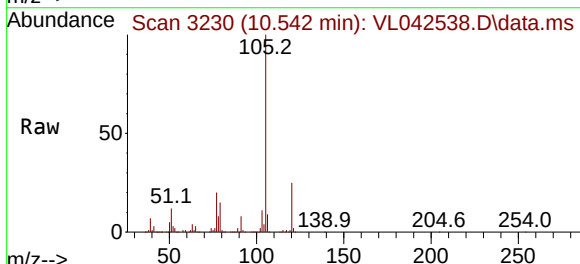
Instrument :
MSVOA_1
ClientSampleId :
VL0514ABS01

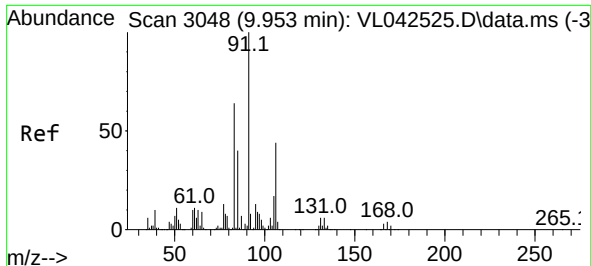
Tgt Ion:104 Resp: 152625
Ion Ratio Lower Upper
104 100
78 54.4 44.7 67.1
103 47.1 38.6 58.0



#62
Isopropylbenzene
Concen: 10.847 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. 0.013 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

Tgt Ion:105 Resp: 572300
Ion Ratio Lower Upper
105 100
120 24.7 20.1 30.1





#63

1,1,2,2-Tetrachloroethane

Concen: 8.734 ppbv

RT: 9.966 min Scan# 3048

Delta R.T. 0.013 min

Lab File: VL042538.D

Acq: 14 May 2025 11:53

Instrument :

MSVOA_1

ClientSampleId :

VL0514ABS01

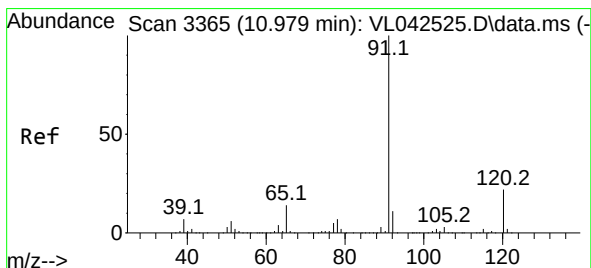
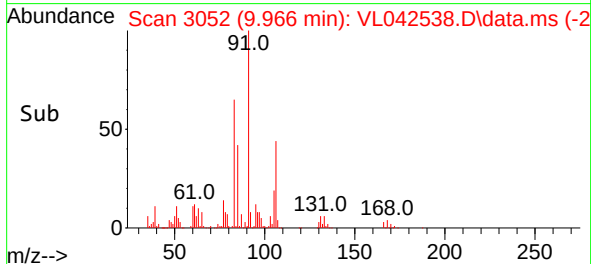
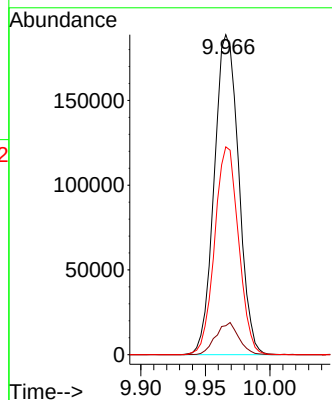
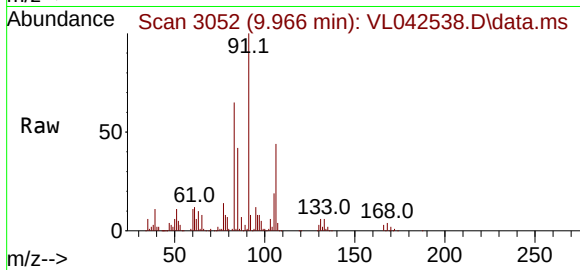
Tgt Ion: 83 Resp: 248344

Ion Ratio Lower Upper

83 100

131 9.5 4.9 14.7

85 63.6 32.3 96.8



#64

n-propylbenzene

Concen: 11.156 ppbv

RT: 10.992 min Scan# 3369

Delta R.T. 0.013 min

Lab File: VL042538.D

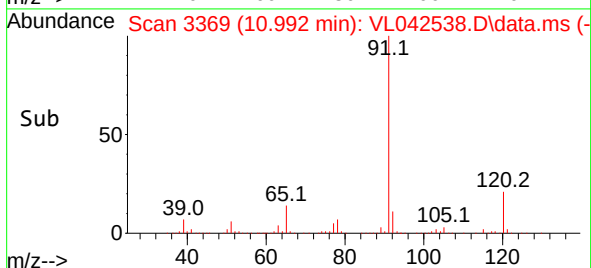
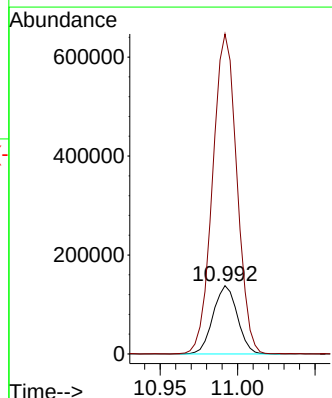
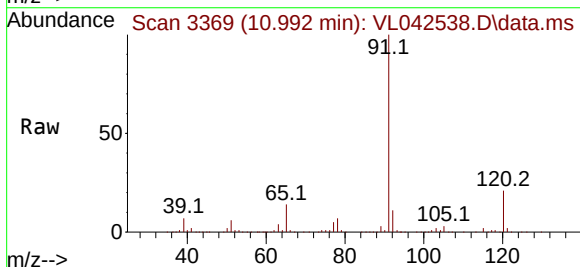
Acq: 14 May 2025 11:53

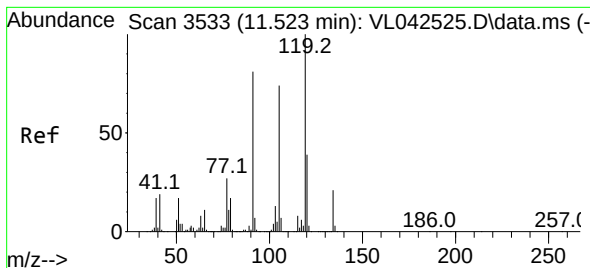
Tgt Ion: 120 Resp: 149437

Ion Ratio Lower Upper

120 100

91 472.6 377.7 566.5





#65

tert-Butylbenzene

Concen: 10.878 ppbv

RT: 11.532 min Scan# 3536

Delta R.T. 0.010 min

Lab File: VL042538.D

Acq: 14 May 2025 11:53

Instrument :

MSVOA_1

ClientSampleId :

VL0514ABS01

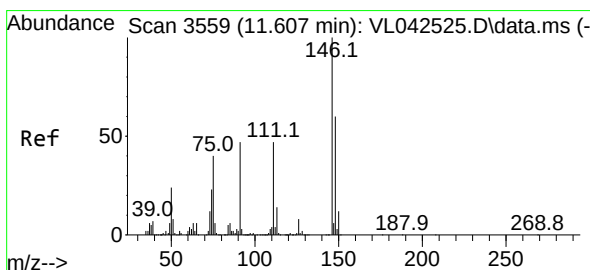
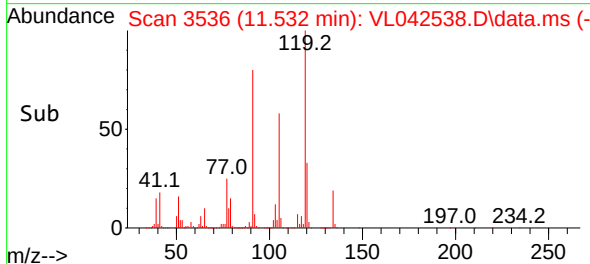
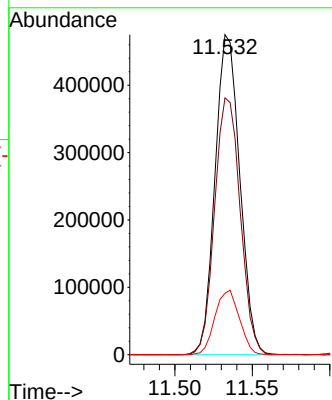
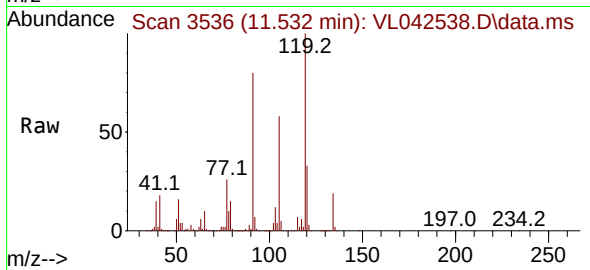
Tgt Ion:119 Resp: 527031

Ion Ratio Lower Upper

119 100

91 83.1 66.6 99.8

134 19.9 16.3 24.5



#66

Benzyl Chloride

Concen: 10.445 ppbv

RT: 11.617 min Scan# 3562

Delta R.T. 0.010 min

Lab File: VL042538.D

Acq: 14 May 2025 11:53

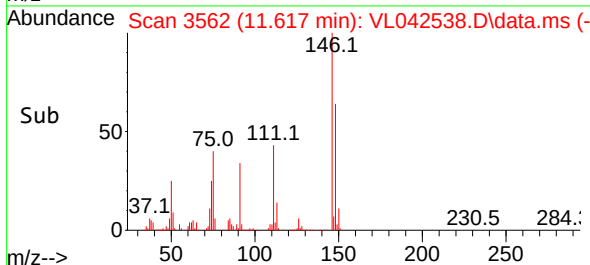
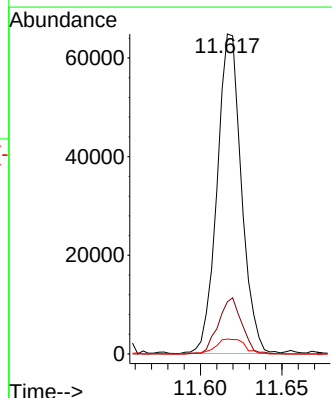
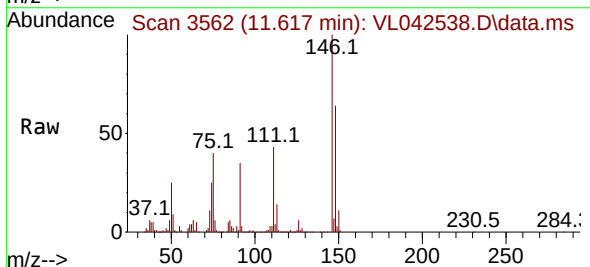
Tgt Ion: 91 Resp: 67242

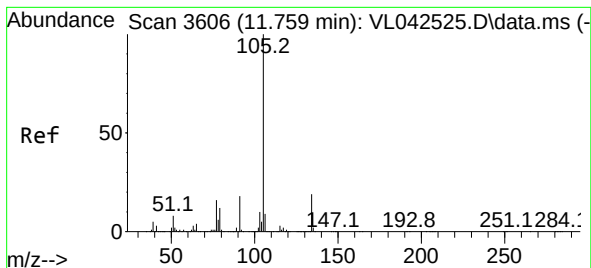
Ion Ratio Lower Upper

91 100

126 16.9 13.7 20.5

128 5.6 4.2 6.2

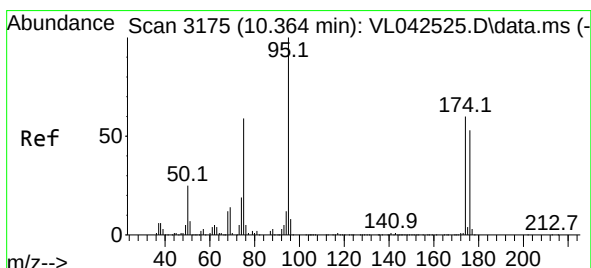
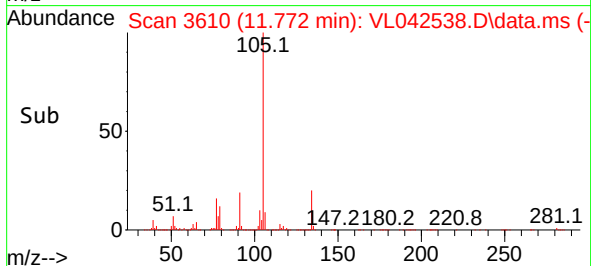
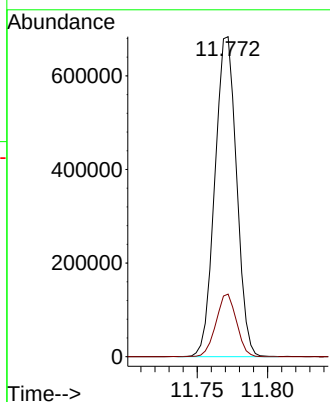
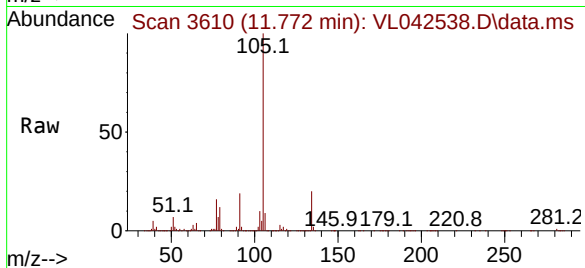




#67
 sec-Butylbenzene
 Concen: 10.561 ppbv
 RT: 11.772 min Scan# 3610
 Delta R.T. 0.013 min
 Lab File: VL042538.D
 Acq: 14 May 2025 11:53

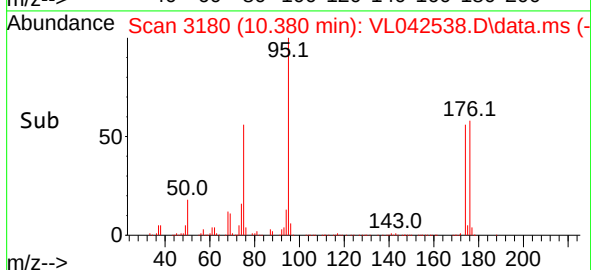
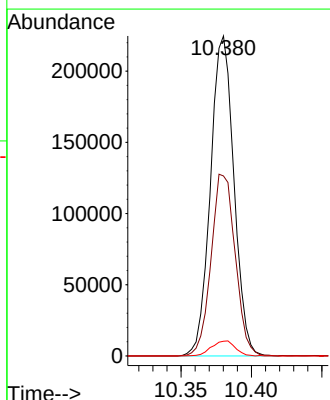
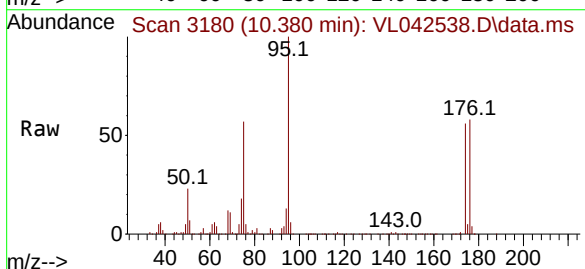
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0514ABS01

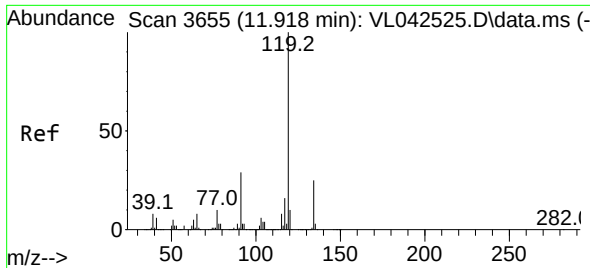
Tgt Ion:105 Resp: 733606
 Ion Ratio Lower Upper
 105 100
 134 18.5 14.9 22.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.111 ppbv
 RT: 10.380 min Scan# 3180
 Delta R.T. 0.016 min
 Lab File: VL042538.D
 Acq: 14 May 2025 11:53

Tgt Ion: 95 Resp: 260716
 Ion Ratio Lower Upper
 95 100
 174 58.6 48.0 72.0
 175 4.8 3.5 5.3

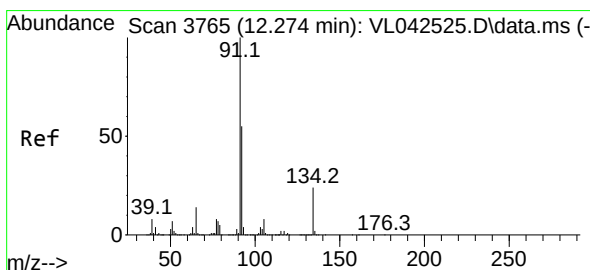
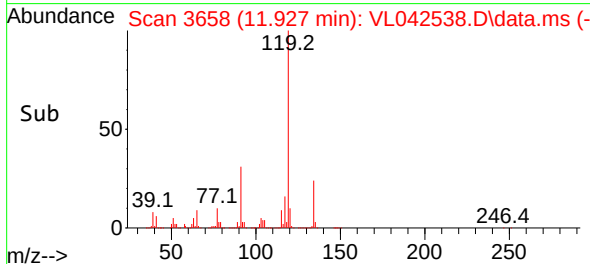
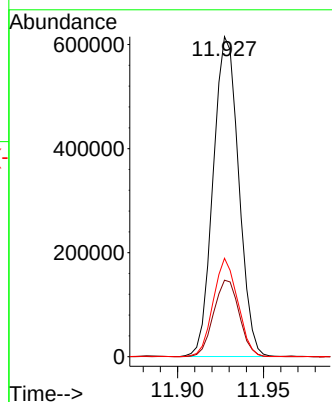
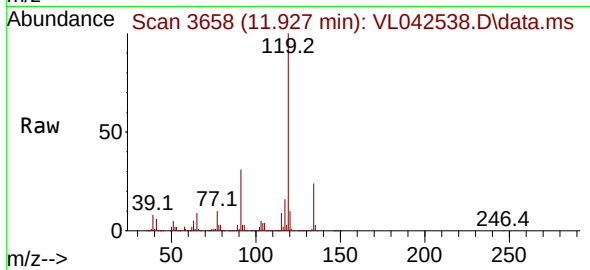




#69
p-Isopropyltoluene
Concen: 11.129 ppbv
RT: 11.927 min Scan# 3658
Delta R.T. 0.010 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

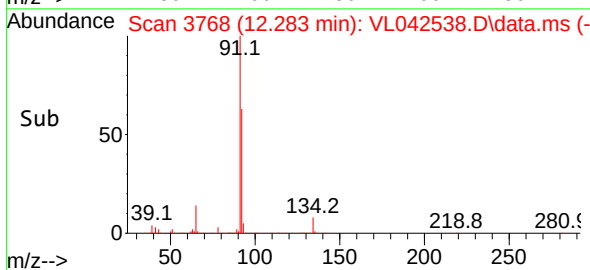
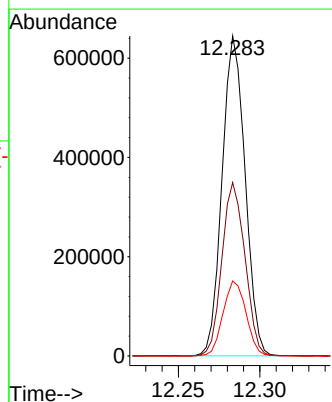
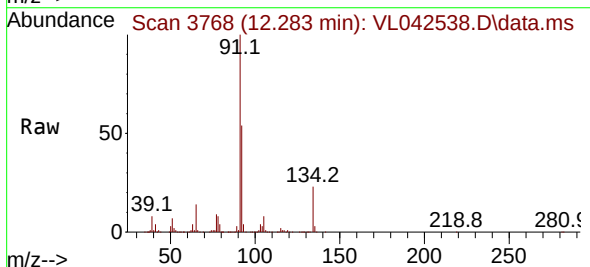
Instrument :
MSVOA_1
ClientSampleId :
VL0514ABS01

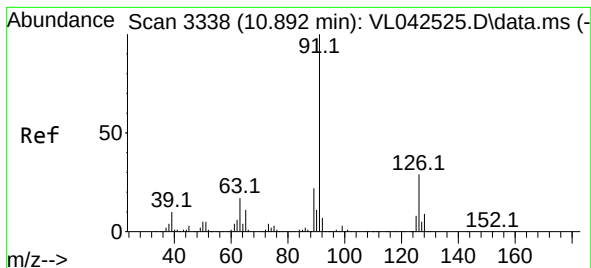
Tgt Ion:119 Resp: 635567
Ion Ratio Lower Upper
119 100
134 24.1 19.8 29.6
91 29.6 23.6 35.4



#70
n-Butylbenzene
Concen: 11.210 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. 0.010 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

Tgt Ion: 91 Resp: 632577
Ion Ratio Lower Upper
91 100
92 54.3 43.7 65.5
134 23.4 18.9 28.3

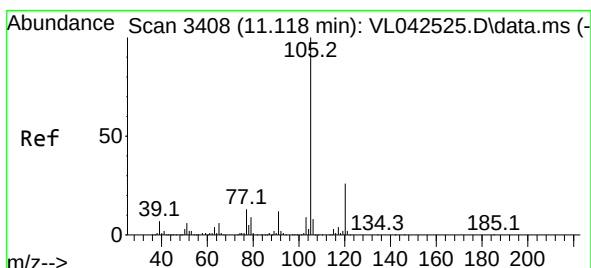
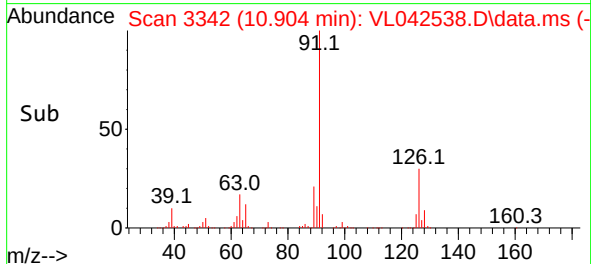
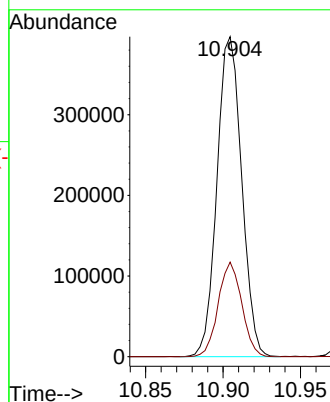
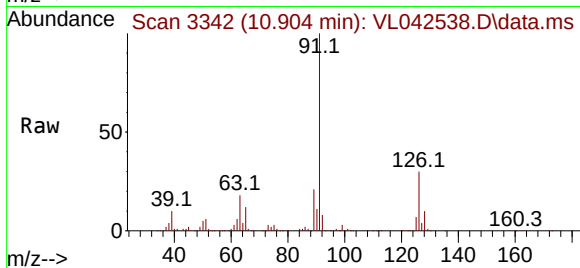




#71
2-Chlorotoluene
Concen: 11.010 ppbv
RT: 10.904 min Scan# 31
Delta R.T. 0.013 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

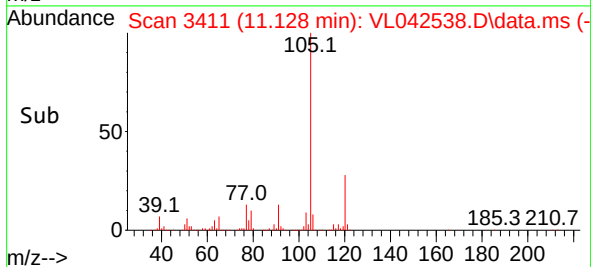
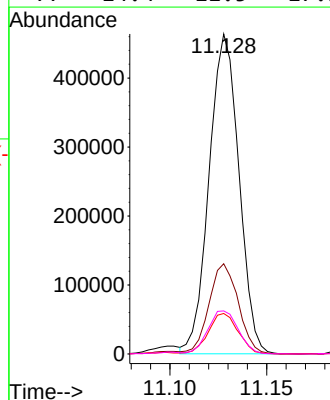
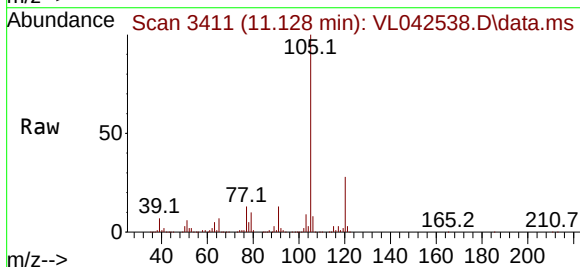
Instrument :
MSVOA_L
ClientSampleId :
VL0514ABS01

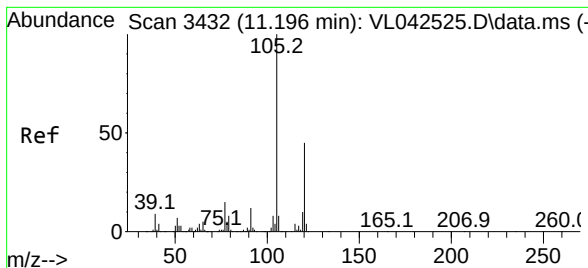
Tgt Ion: 91 Resp: 439880
Ion Ratio Lower Upper
91 100
126 28.2 11.4 45.6



#72
4-Ethyltoluene
Concen: 11.428 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.010 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

Tgt Ion: 105 Resp: 496655
Ion Ratio Lower Upper
105 100
120 28.5 22.9 34.3
91 13.2 10.9 16.3
77 14.4 11.5 17.3





#73

1,3,5-Trimethylbenzene

Concen: 10.984 ppbv

RT: 11.205 min Scan# 3432

Delta R.T. 0.010 min

Lab File: VL042538.D

Acq: 14 May 2025 11:53

Instrument :

MSVOA_1

ClientSampleId :

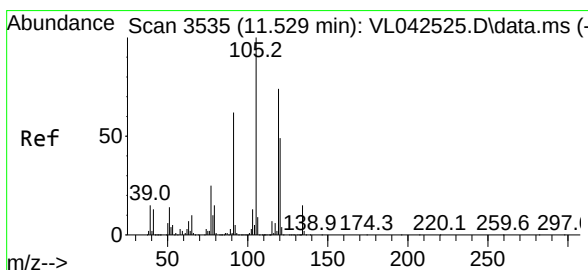
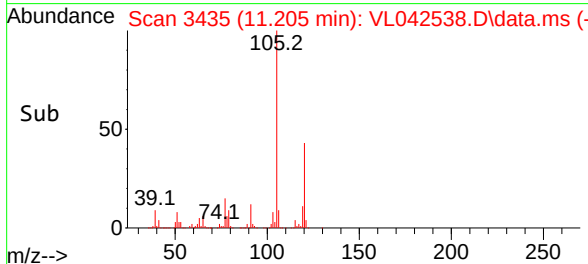
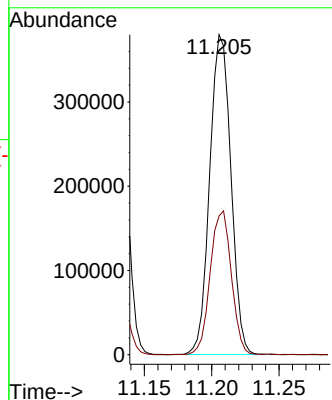
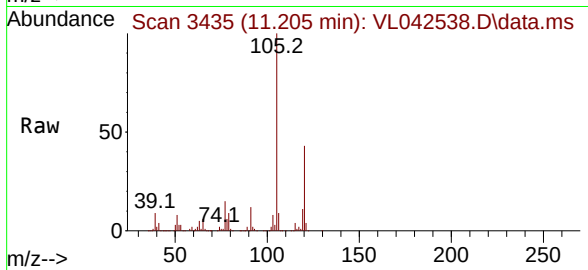
VL0514ABS01

Tgt Ion:105 Resp: 415787

Ion Ratio Lower Upper

105 100

120 43.4 36.0 54.0



#74

1,2,4-Trimethylbenzene

Concen: 10.114 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. 0.010 min

Lab File: VL042538.D

Acq: 14 May 2025 11:53

Tgt Ion:105 Resp: 471038

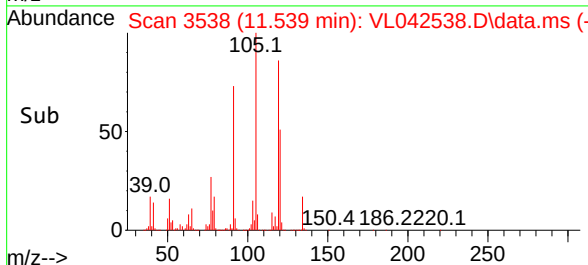
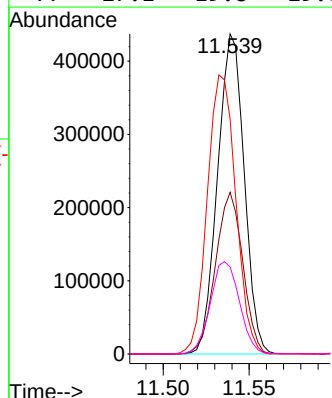
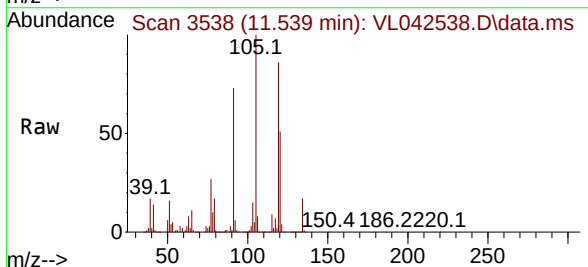
Ion Ratio Lower Upper

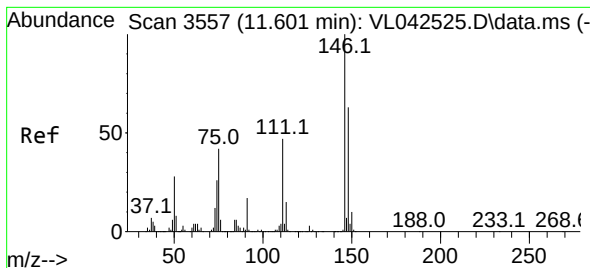
105 100

120 50.5 39.0 58.6

91 73.3 49.4 74.2

77 27.1 19.8 29.6





#75

1,3-Dichlorobenzene

Concen: 9.675 ppbv

RT: 11.610 min Scan# 3557

Delta R.T. 0.010 min

Lab File: VL042538.D

Acq: 14 May 2025 11:53

Instrument :

MSVOA_1

ClientSampleId :

VL0514ABS01

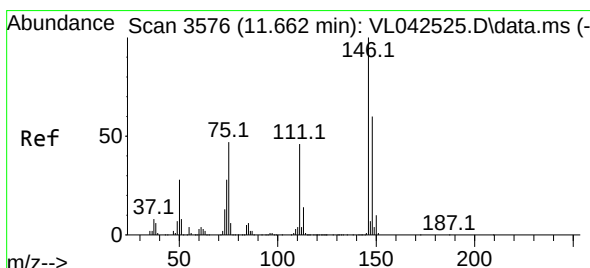
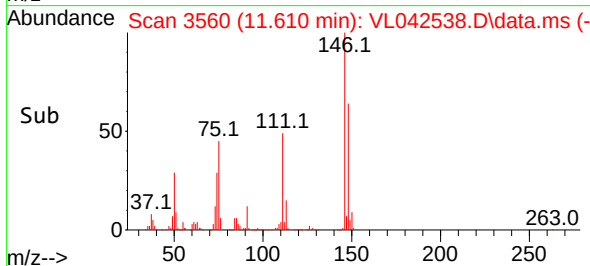
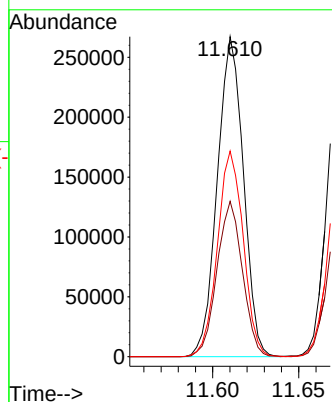
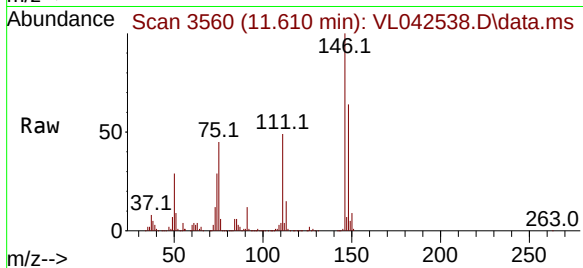
Tgt Ion:146 Resp: 282203

Ion Ratio Lower Upper

146 100

111 47.4 23.6 71.0

148 63.5 31.6 94.8



#76

1,4-Dichlorobenzene

Concen: 9.900 ppbv

RT: 11.675 min Scan# 3580

Delta R.T. 0.013 min

Lab File: VL042538.D

Acq: 14 May 2025 11:53

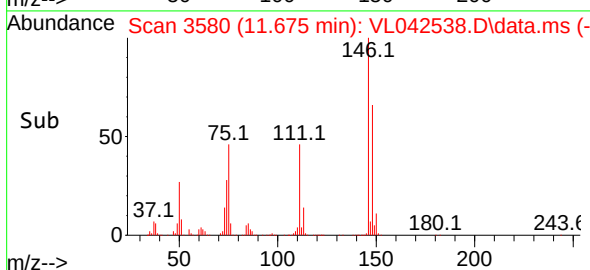
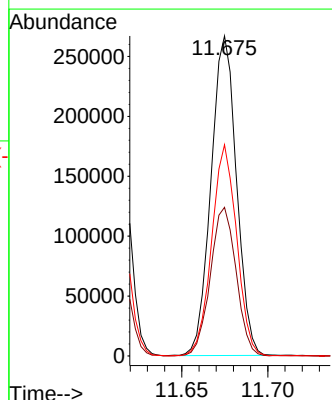
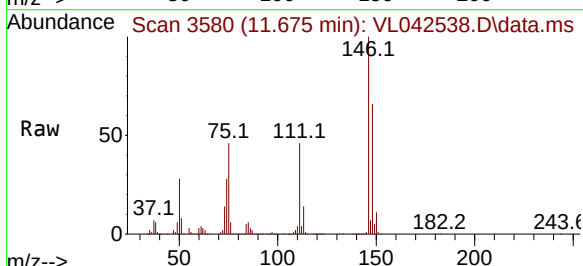
Tgt Ion:146 Resp: 274722

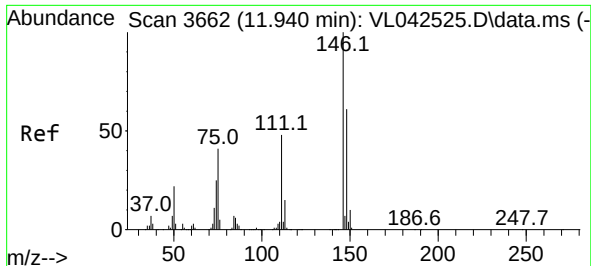
Ion Ratio Lower Upper

146 100

111 47.3 23.4 70.3

148 65.0 31.6 94.7

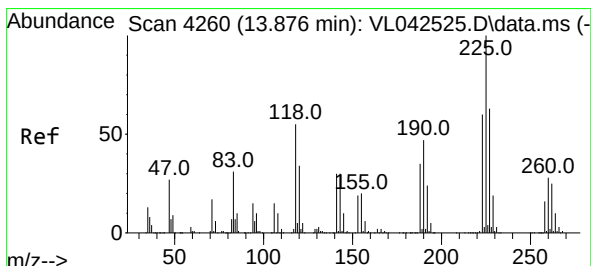
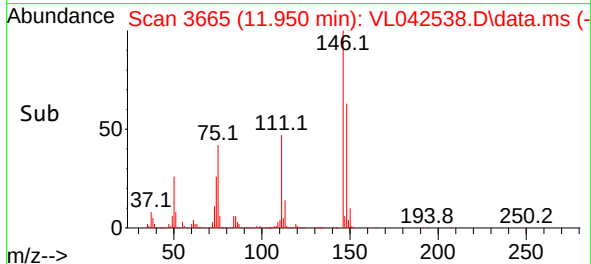
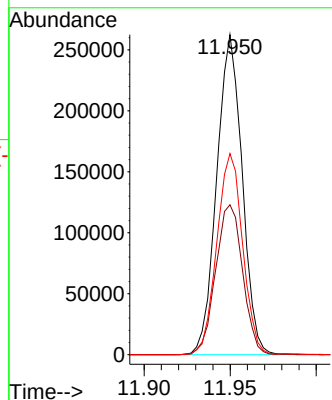
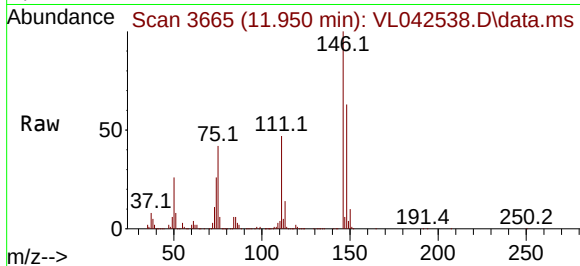




#77
1,2-Dichlorobenzene
Concen: 8.948 ppbv
RT: 11.950 min Scan# 3665
Delta R.T. 0.010 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

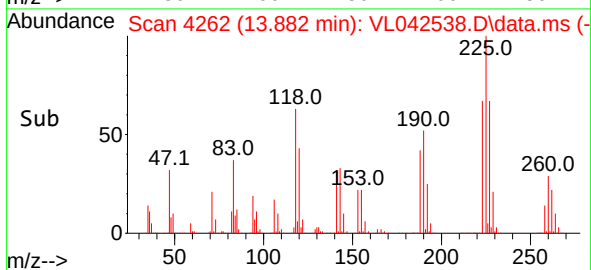
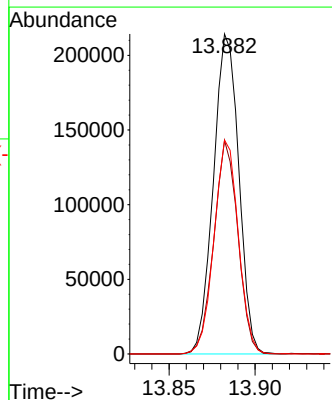
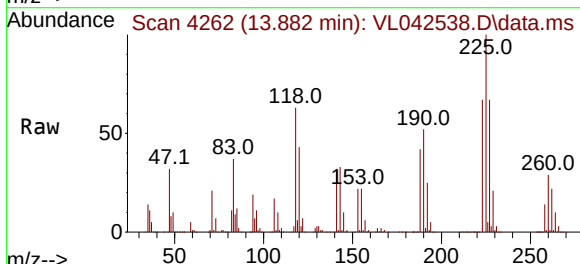
Instrument :
MSVOA_1
ClientSampleId :
VL0514ABS01

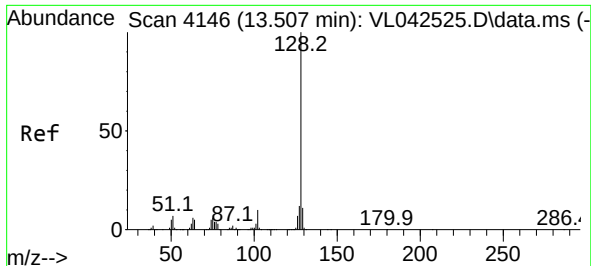
Tgt Ion:146 Resp: 269587
Ion Ratio Lower Upper
146 100
111 49.8 24.9 74.8
148 63.9 31.4 94.2



#78
Hexachloro-1,3-Butadiene
Concen: 8.506 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. 0.006 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

Tgt Ion:225 Resp: 219747
Ion Ratio Lower Upper
225 100
223 63.3 50.8 76.2
227 64.2 50.5 75.7

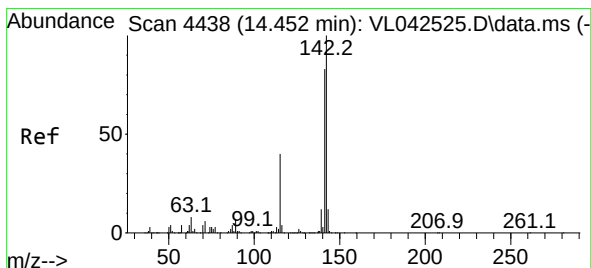
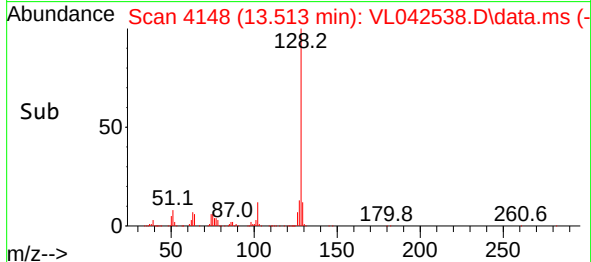
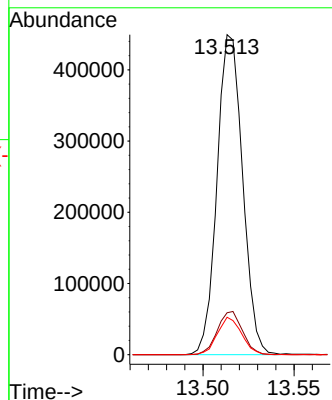
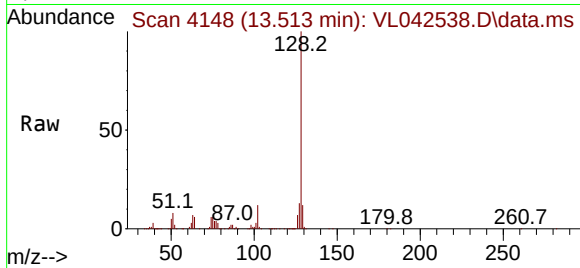




#79
Naphthalene
Concen: 13.557 ppbv
RT: 13.513 min Scan# 4146
Delta R.T. 0.006 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

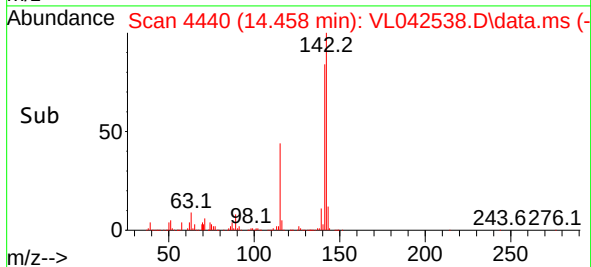
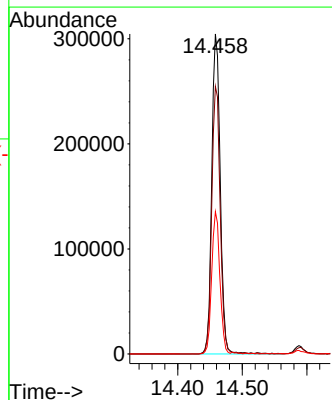
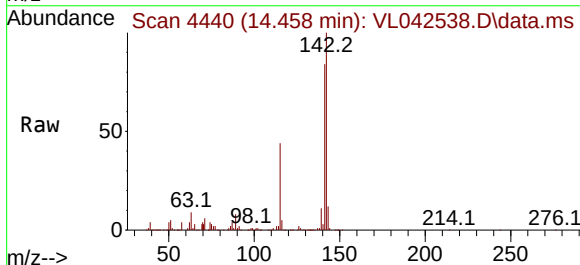
Instrument :
MSVOA_L
ClientSampleId :
VL0514ABS01

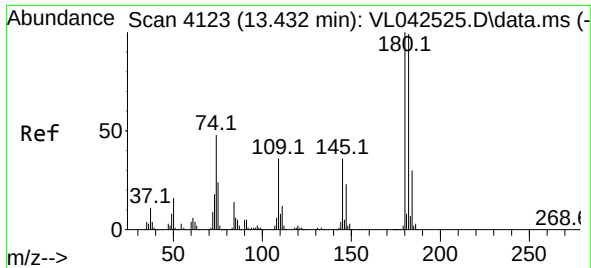
Tgt Ion:128 Resp: 437553
Ion Ratio Lower Upper
128 100
127 13.1 9.8 14.8
129 11.7 8.6 12.8



#80
Naphthalene,2-methyl-
Concen: 14.972 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. 0.006 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

Tgt Ion:142 Resp: 278888
Ion Ratio Lower Upper
142 100
141 83.9 66.8 100.2
115 43.6 33.0 49.6

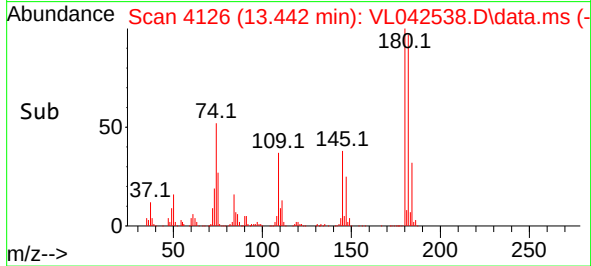
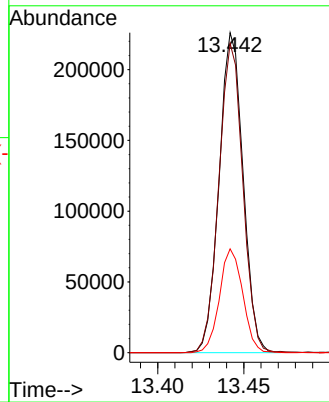
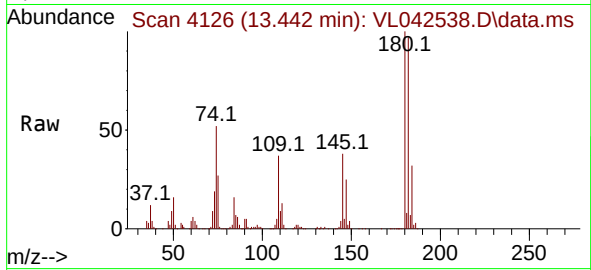




#81
 1,2,4-Trichlorobenzene
 Concen: 11.164 ppbv
 RT: 13.442 min Scan# 41
 Delta R.T. 0.010 min
 Lab File: VL042538.D
 Acq: 14 May 2025 11:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0514ABS01

Tgt Ion:180 Resp: 219152
 Ion Ratio Lower Upper
 180 100
 182 96.7 76.6 114.8
 184 31.5 24.6 36.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051425\
 Data File : VL042541.D
 Acq On : 14 May 2025 14:15
 Operator : SY/MD
 Sample : Q2037-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Quant Time: May 15 01:34:48 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue May 13 02:07:03 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	134546	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	3.965	114	408032	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.885	117	347758	10.000	ppbv	0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	299463	9.897	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.000%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	8985	0.411	ppbv	99
3) Chlorodifluoromethane	1.479	51	68102	3.059	ppbv #	83
4) Chloromethane	1.534	50	6285	0.705	ppbv	98
6) Bromomethane	1.667	94	160	0.037	ppbv	94
7) Chloroethane	1.706	64	247	0.069	ppbv #	77
9) Propene	1.489	41	25265	5.232	ppbv #	85
10) Heptane	4.981	43	1511	0.082	ppbv #	26
11) Trichlorofluoromethane	1.881	101	4432	0.211	ppbv	83
12) 1,1,2-Trichlorotrifluo...	2.140	101	533	0.032	ppbv #	1
13) Ethanol	1.722	45	398191	306.595	ppbv	100
15) Acetone	1.848	43	1392356	64.203	ppbv #	66
16) 1,3-Butadiene	1.622	39	28744	2.973	ppbv #	22
17) tert-Butyl alcohol	2.046	59	10606	0.534	ppbv #	72
19) Isopropyl Alcohol	1.887	45	231241	19.799	ppbv #	1
20) Methylene Chloride	2.065	84	6721	0.898	ppbv	91
21) Allyl Chloride	1.965	41	34258	2.407	ppbv #	26
23) Vinyl Acetate	2.460	43	13937	0.619	ppbv #	79
25) Ethyl Acetate	2.832	43	59084	1.565	ppbv #	84
26) Hexane	2.832	57	56507	3.646	ppbv #	53
27) Carbon Disulfide	2.152	76	3089	0.154	ppbv #	1
28) Methyl tert-Butyl Ether	2.450	73	316	0.037	ppbv #	1
29) Chloroform	2.852	83	52359	1.629	ppbv	99
30) Cyclohexane	3.865	84	17180	1.350	ppbv	92
31) cis-1,2-Dichloroethene	2.729	61	748	0.043	ppbv #	80
34) 2-Butanone	2.564	43	22109	0.822	ppbv	97
35) Carbon Tetrachloride	3.771	117	4088	0.111	ppbv	97
36) Benzene	3.664	78	17040	0.471	ppbv	98
37) 1,2-Dichloroethane	3.221	62	6929	0.269	ppbv	99
39) 1,2-Dichloropropane	3.962	63	102455	7.607	ppbv #	17
41) Tetrahydrofuran	3.068	42	3236	0.278	ppbv #	89
42) Bromodichloromethane	4.496	83	1684	0.049	ppbv #	28
44) 2,2,4-Trimethylpentane	4.641	57	7712	0.135	ppbv #	17
52) Tetrachloroethene	8.231	164	3466	0.251	ppbv #	85
53) Toluene	6.943	91	95844	2.701	ppbv	99
58) Ethyl Benzene	9.364	91	14851	0.313	ppbv	98
59) m/p-Xylene	9.539	91	38335	0.911	ppbv #	100
60) o-Xylene	9.969	91	17042	0.415	ppbv	91
61) Styrene	9.878	104	17521	1.151	ppbv	95
62) Isopropylbenzene	10.545	105	2710	0.044	ppbv	97
65) tert-Butylbenzene	11.539	119	4217	0.074	ppbv #	32
66) Benzyl Chloride	11.539	91	5042	0.667	ppbv #	69
69) p-Isopropyltoluene	11.930	119	8127	0.121	ppbv	95
70) n-Butylbenzene	12.675	91	3450	0.052	ppbv	89

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051425\
 Data File : VL042541.D
 Acq On : 14 May 2025 14:15
 Operator : SY/MD
 Sample : Q2037-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Quant Time: May 15 01:34:48 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue May 13 02:07:03 2025
 Response via : Initial Calibration

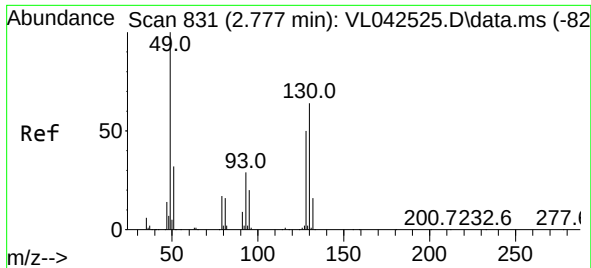
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

71) 2-Chlorotoluene	11.209	91	1601	0.034	ppbv	70
72) 4-Ethyltoluene	11.131	105	9443	0.185	ppbv #	62
73) 1,3,5-Trimethylbenzene	11.209	105	10634	0.239	ppbv	98
74) 1,2,4-Trimethylbenzene	11.542	105	32735	0.599	ppbv #	64
75) 1,3-Dichlorobenzene	11.678	146	638942	18.667	ppbv	98
76) 1,4-Dichlorobenzene	11.678	146	638942	19.620	ppbv	98
77) 1,2-Dichlorobenzene	11.678	146	638942	18.071	ppbv	97
79) Naphthalene	13.520	128	7709	0.204	ppbv #	84
80) Naphthalene,2-methyl-	14.468	142	2848	0.130	ppbv #	86

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

Quant Time: May 15 01:34:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue May 13 02:07:03 2025
Response via : Initial Calibration

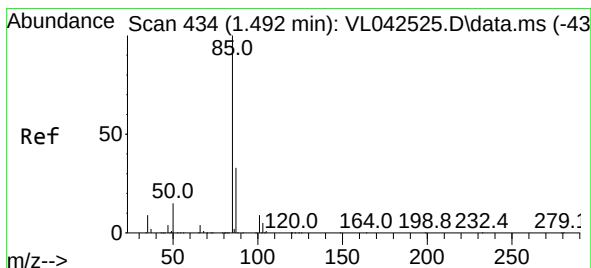
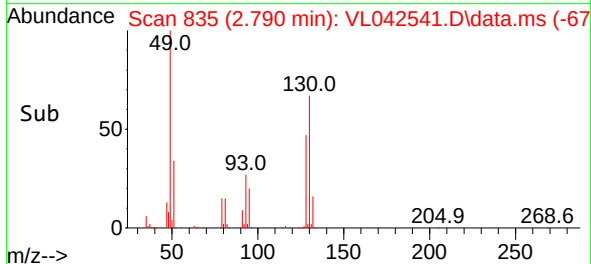
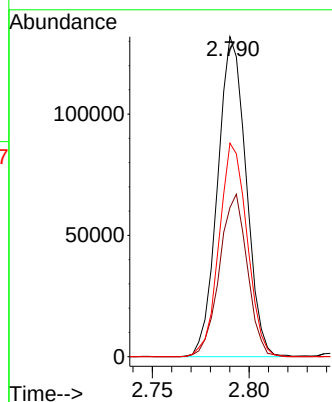
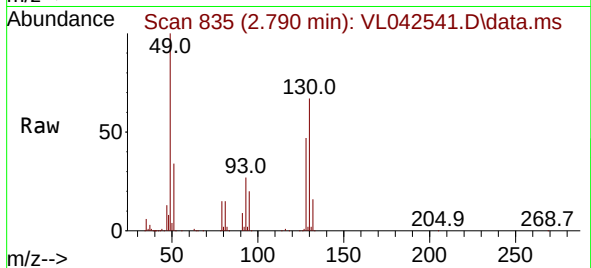




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.790 min Scan# 81
 Delta R.T. 0.013 min
 Lab File: VL042541.D
 Acq: 14 May 2025 14:15

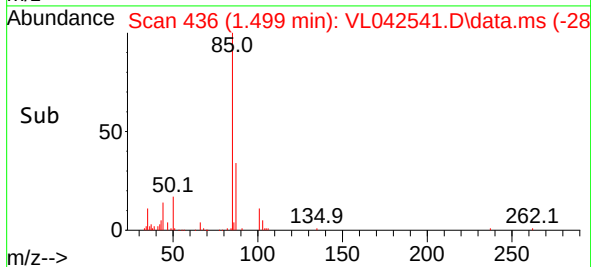
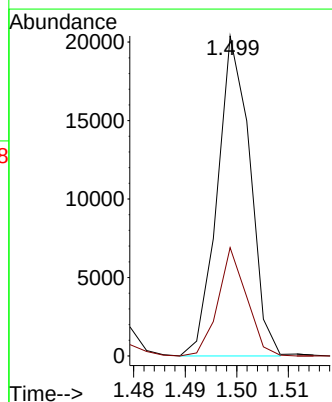
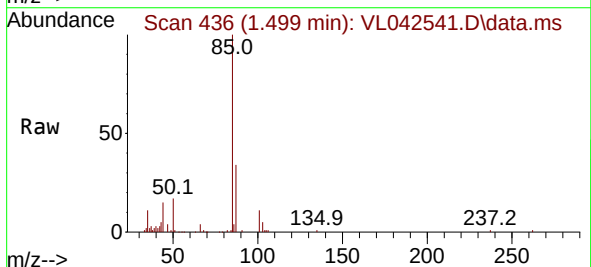
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

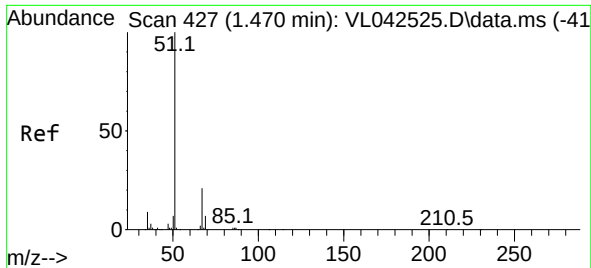
Tgt Ion: 49 Resp: 134546
 Ion Ratio Lower Upper
 49 100
 128 49.7 24.9 74.6
 130 65.8 32.5 97.5



#2
 Dichlorodifluoromethane
 Concen: 0.411 ppbv
 RT: 1.499 min Scan# 436
 Delta R.T. 0.006 min
 Lab File: VL042541.D
 Acq: 14 May 2025 14:15

Tgt Ion: 85 Resp: 8985
 Ion Ratio Lower Upper
 85 100
 87 33.8 26.8 40.2

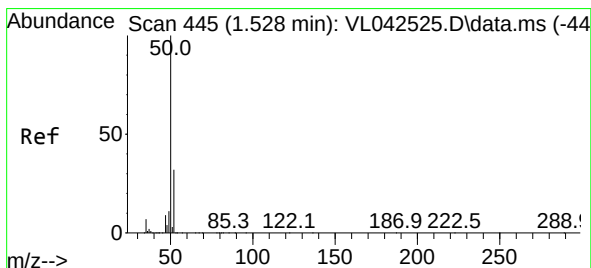
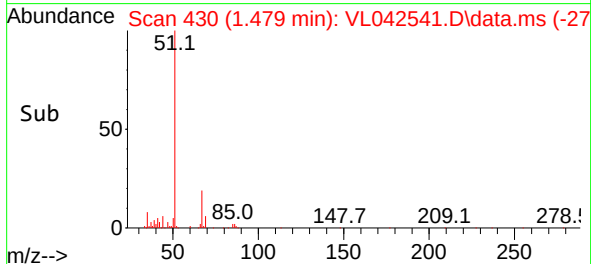
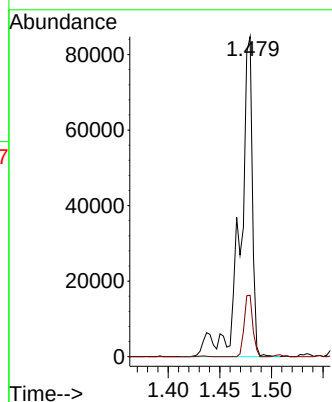
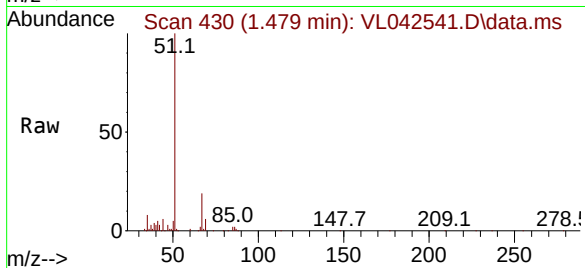




#3
Chlorodifluoromethane
Concen: 3.059 ppbv
RT: 1.479 min Scan# 41
Delta R.T. 0.009 min
Lab File: VL042541.D
Acq: 14 May 2025 14:15

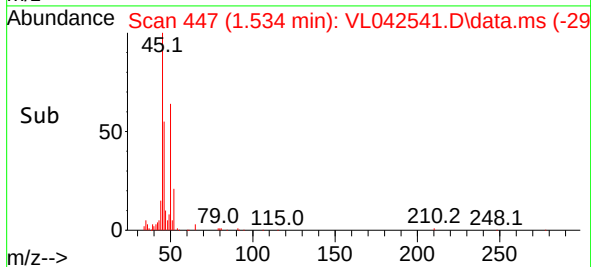
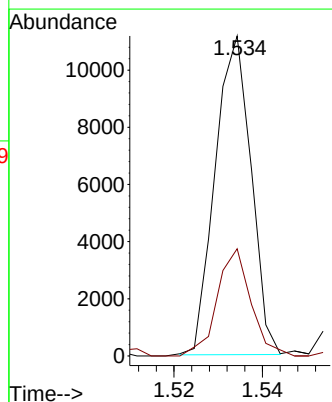
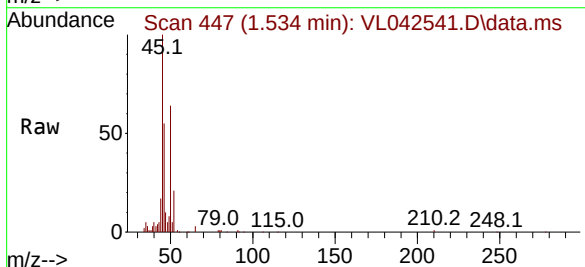
Instrument :
MSVOA_L
ClientSampleId :
IA1

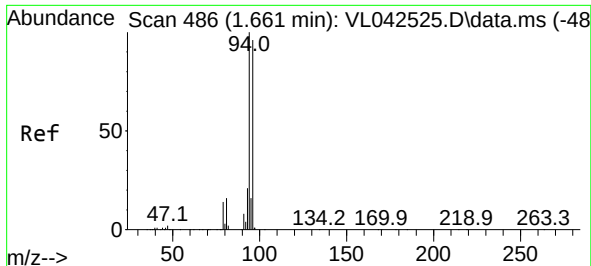
Tgt Ion: 51 Resp: 68102
Ion Ratio Lower Upper
51 100
67 13.7 17.4 26.0#



#4
Chloromethane
Concen: 0.705 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.006 min
Lab File: VL042541.D
Acq: 14 May 2025 14:15

Tgt Ion: 50 Resp: 6285
Ion Ratio Lower Upper
50 100
52 33.7 25.9 38.9

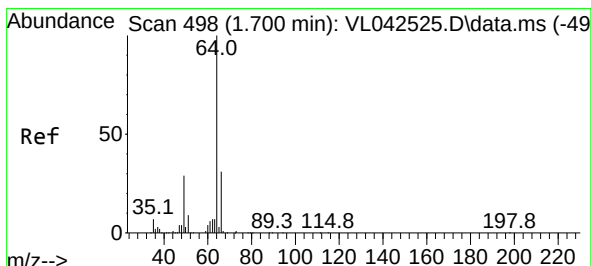
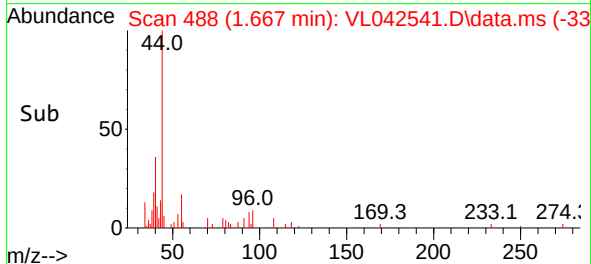
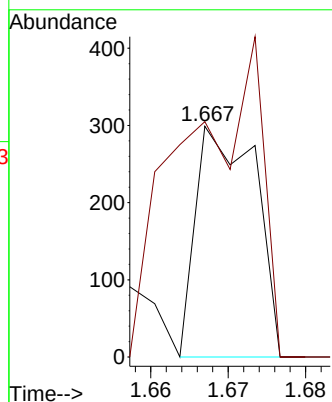
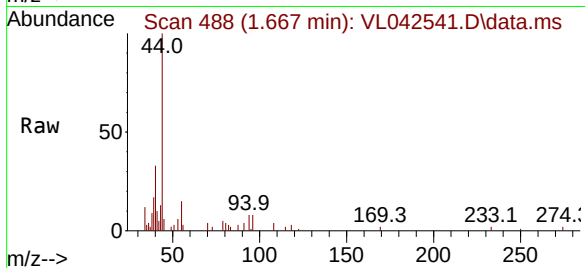




#6
Bromomethane
Concen: 0.037 ppbv
RT: 1.667 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL042541.D
Acq: 14 May 2025 14:15

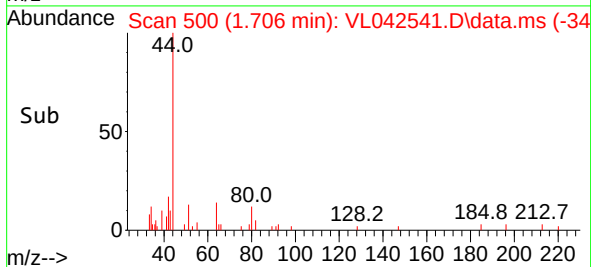
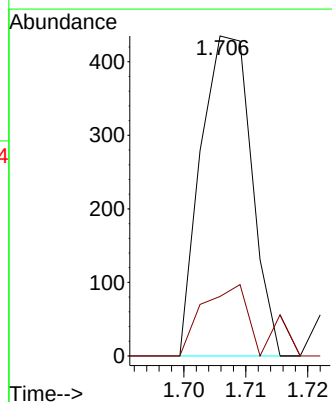
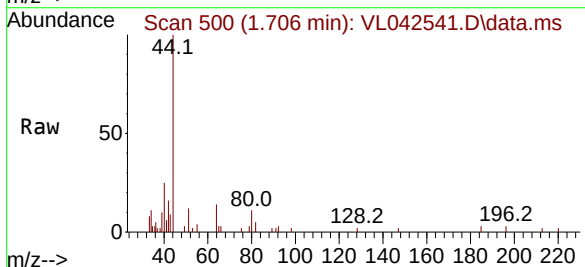
Instrument :
MSVOA_L
ClientSampleId :
IA1

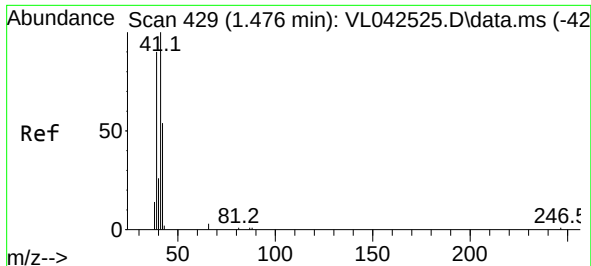
Tgt Ion: 94 Resp: 160
Ion Ratio Lower Upper
94 100
96 102.0 76.9 115.3



#7
Chloroethane
Concen: 0.069 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.006 min
Lab File: VL042541.D
Acq: 14 May 2025 14:15

Tgt Ion: 64 Resp: 247
Ion Ratio Lower Upper
64 100
66 18.6 25.1 37.7#





#9

Propene

Concen: 5.232 ppbv

RT: 1.489 min Scan# 41

Delta R.T. 0.013 min

Lab File: VL042541.D

Acq: 14 May 2025 14:15

Instrument :

MSVOA_L

ClientSampleId :

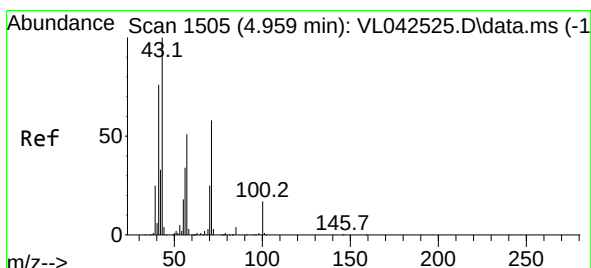
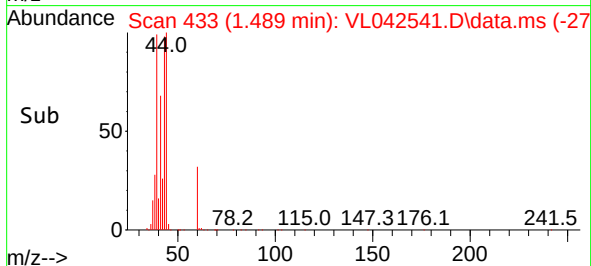
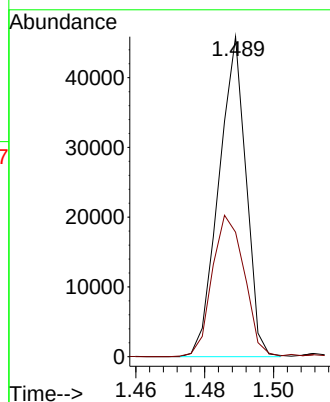
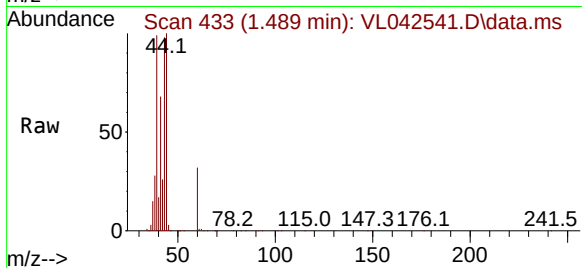
IA1

Tgt Ion: 41 Resp: 25265

Ion Ratio Lower Upper

41 100

42 0.0 4.1 6.1#



#10

Heptane

Concen: 0.082 ppbv

RT: 4.981 min Scan# 1512

Delta R.T. 0.022 min

Lab File: VL042541.D

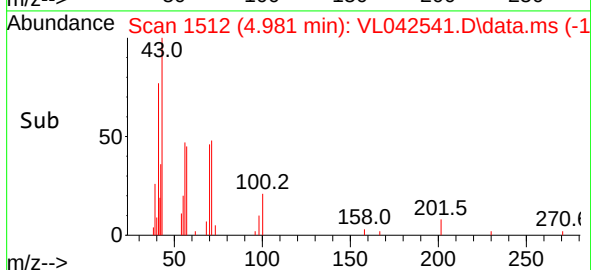
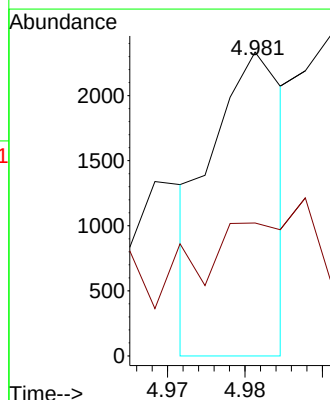
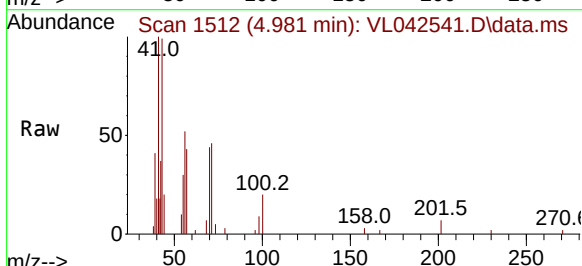
Acq: 14 May 2025 14:15

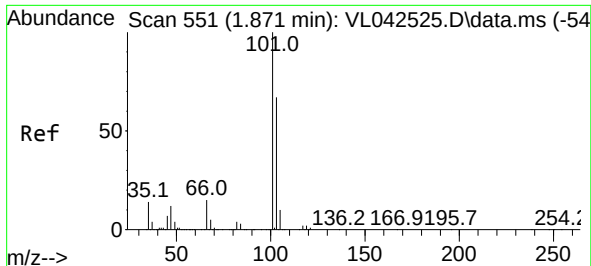
Tgt Ion: 43 Resp: 1511

Ion Ratio Lower Upper

43 100

57 0.0 42.1 63.1#

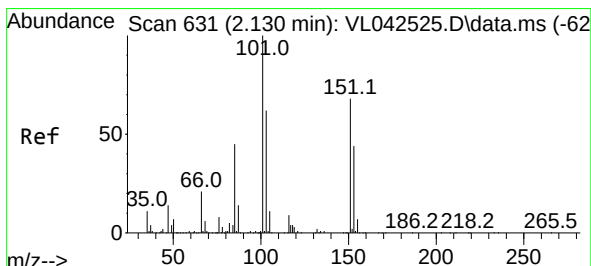
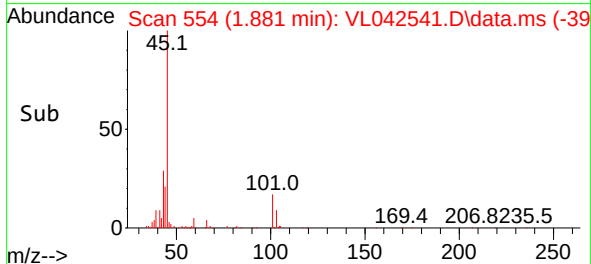
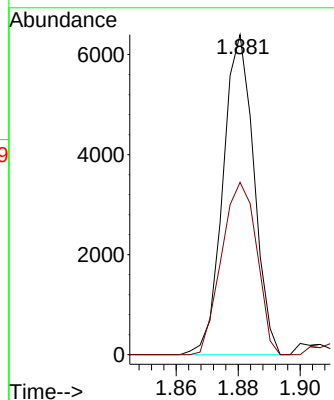
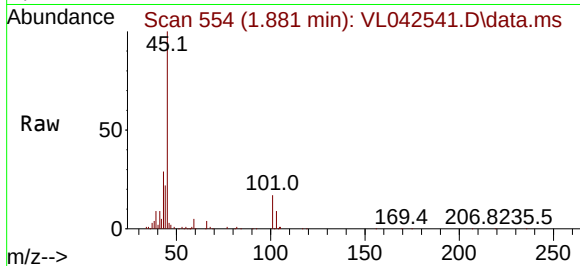




#11
 Trichlorofluoromethane
 Concen: 0.211 ppbv
 RT: 1.881 min Scan# 511
 Delta R.T. 0.009 min
 Lab File: VL042541.D
 Acq: 14 May 2025 14:15

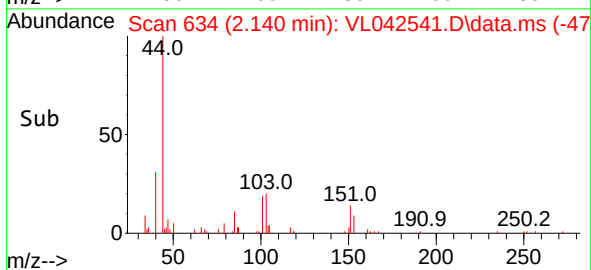
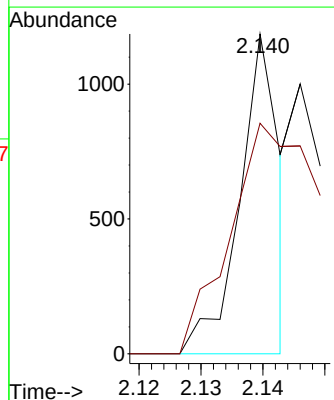
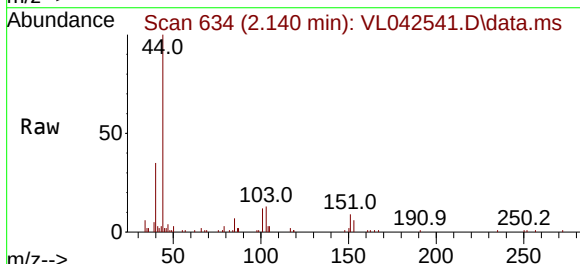
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

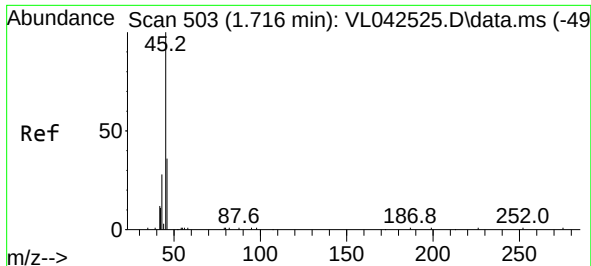
Tgt Ion:101 Resp: 4432
 Ion Ratio Lower Upper
 101 100
 103 53.9 53.8 80.6



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.032 ppbv
 RT: 2.140 min Scan# 634
 Delta R.T. 0.009 min
 Lab File: VL042541.D
 Acq: 14 May 2025 14:15

Tgt Ion:101 Resp: 533
 Ion Ratio Lower Upper
 101 100
 151 159.1 57.8 86.8#

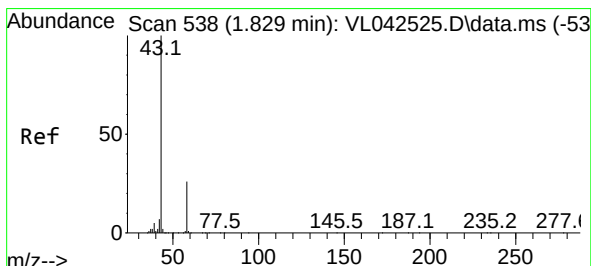
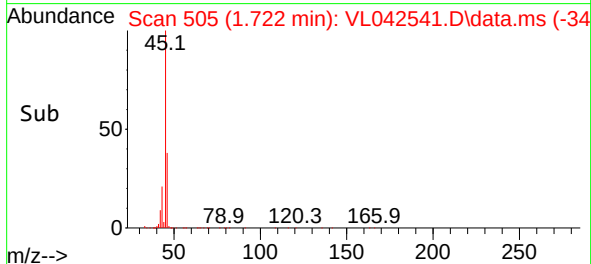
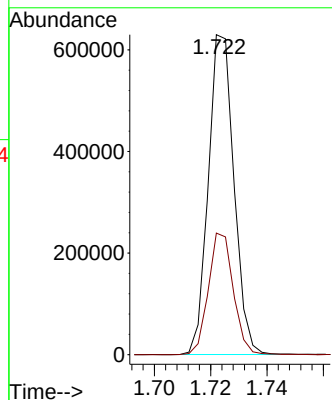
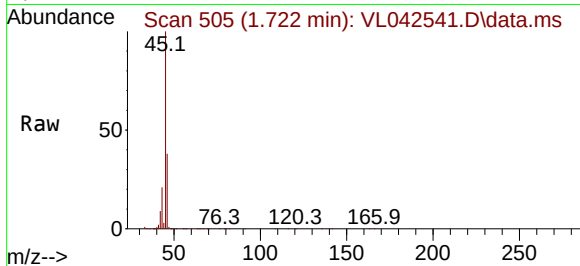




#13
Ethanol
Concen: 306.595 ppbv
RT: 1.722 min Scan# 503
Delta R.T. 0.006 min
Lab File: VL042541.D
Acq: 14 May 2025 14:15

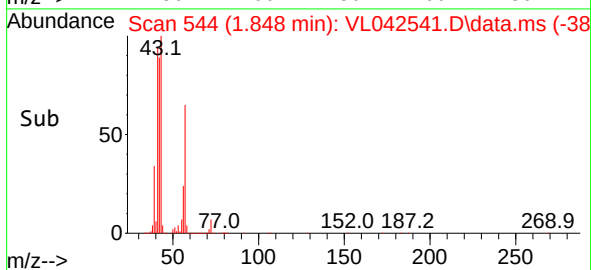
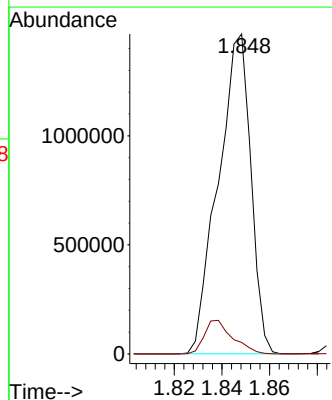
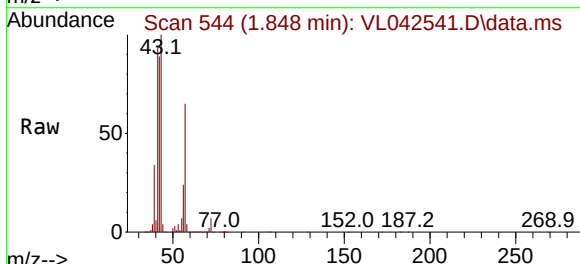
Instrument :
MSVOA_L
ClientSampleId :
IA1

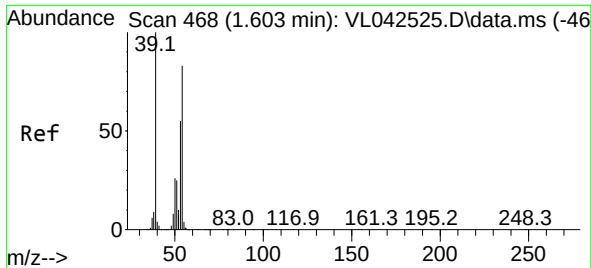
Tgt Ion: 45 Resp: 398191
Ion Ratio Lower Upper
45 100
46 37.3 14.8 59.4



#15
Acetone
Concen: 64.203 ppbv
RT: 1.848 min Scan# 544
Delta R.T. 0.019 min
Lab File: VL042541.D
Acq: 14 May 2025 14:15

Tgt Ion: 43 Resp: 1392356
Ion Ratio Lower Upper
43 100
58 9.2 21.3 31.9#

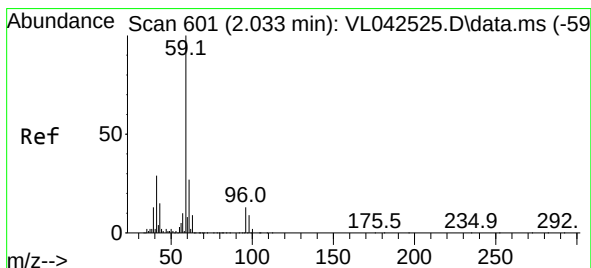
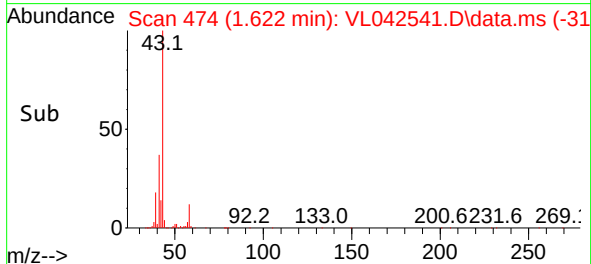
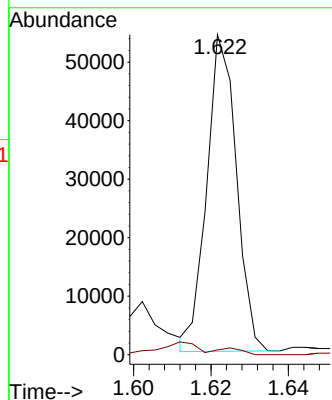
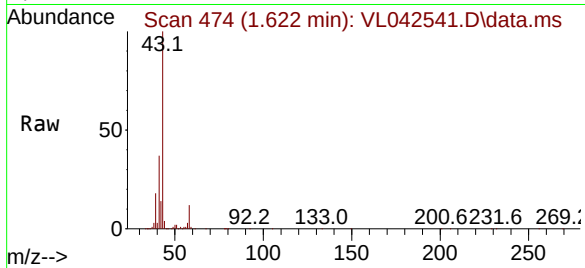




#16
1,3-Butadiene
Concen: 2.973 ppbv
RT: 1.622 min Scan# 41
Delta R.T. 0.019 min
Lab File: VL042541.D
Acq: 14 May 2025 14:15

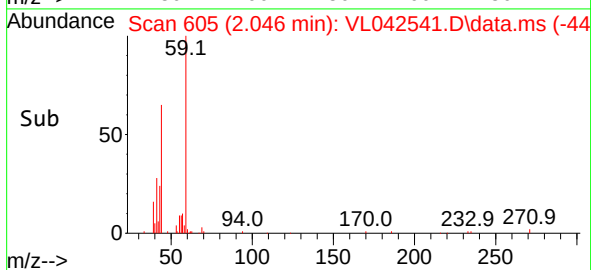
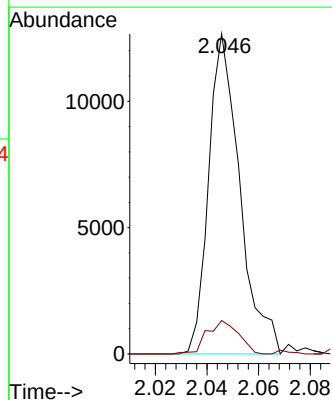
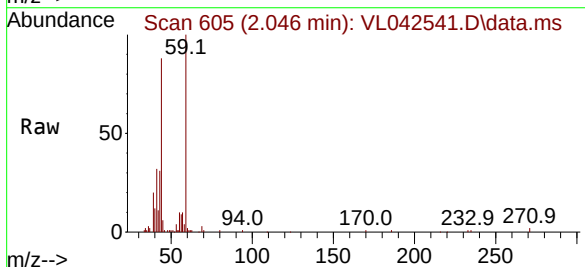
Instrument :
MSVOA_L
ClientSampleId :
IA1

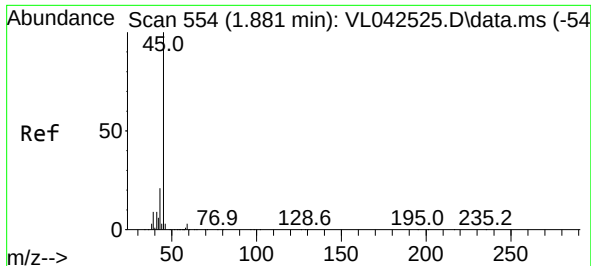
Tgt Ion: 39 Resp: 28744
Ion Ratio Lower Upper
39 100
54 7.2 57.8 86.6#



#17
tert-Butyl alcohol
Concen: 0.534 ppbv
RT: 2.046 min Scan# 605
Delta R.T. 0.013 min
Lab File: VL042541.D
Acq: 14 May 2025 14:15

Tgt Ion: 59 Resp: 10606
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

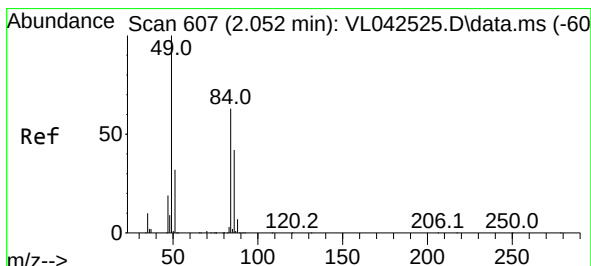
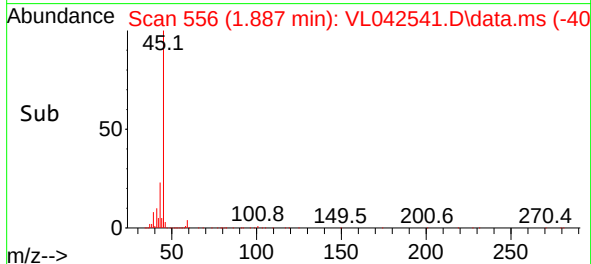
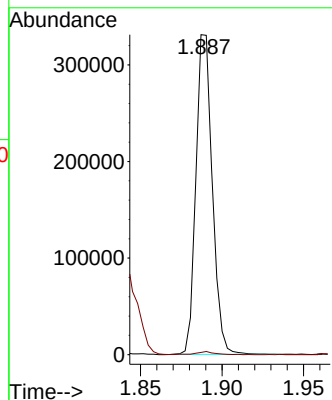
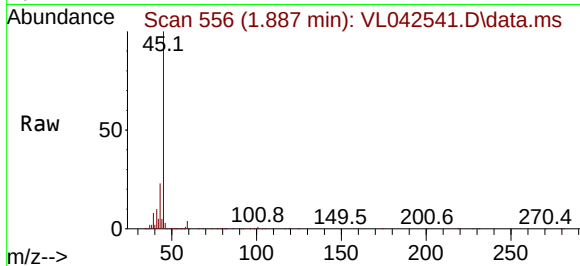




#19
Isopropyl Alcohol
Concen: 19.799 ppbv
RT: 1.887 min Scan# 511
Delta R.T. 0.006 min
Lab File: VL042541.D
Acq: 14 May 2025 14:15

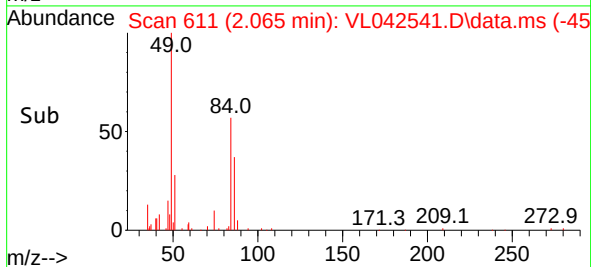
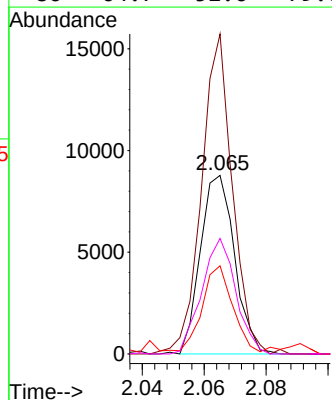
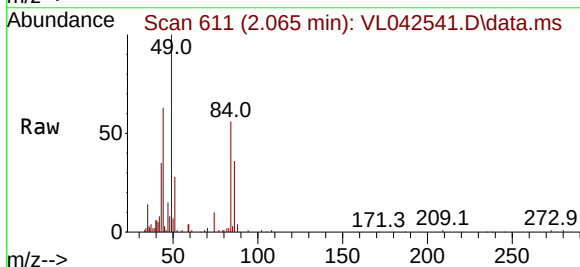
Instrument :
MSVOA_1
ClientSampleId :
IA1

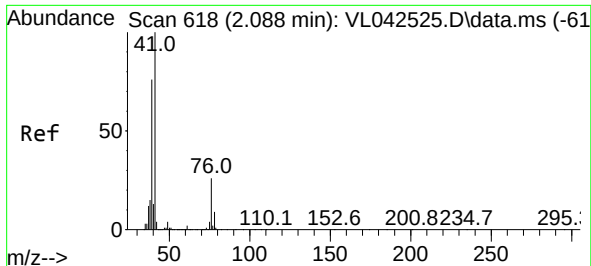
Tgt Ion: 45 Resp: 231241
Ion Ratio Lower Upper
45 100
58 55.3 1.5 2.3#



#20
Methylene Chloride
Concen: 0.898 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.013 min
Lab File: VL042541.D
Acq: 14 May 2025 14:15

Tgt Ion: 84 Resp: 6721
Ion Ratio Lower Upper
84 100
49 176.6 128.2 192.4
51 47.6 41.7 62.5
86 64.7 52.6 79.0

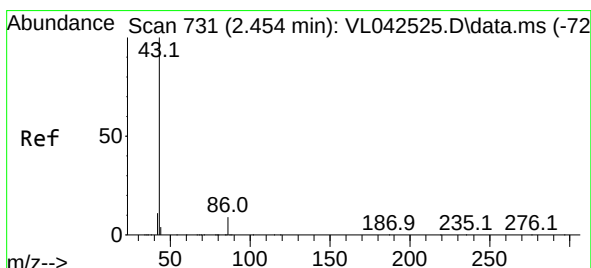
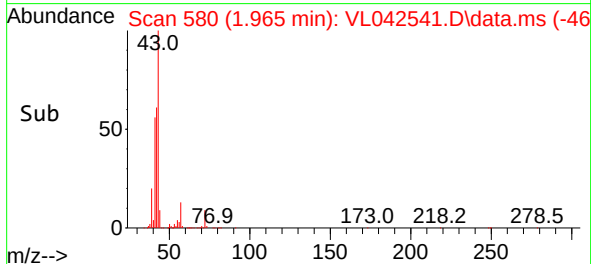
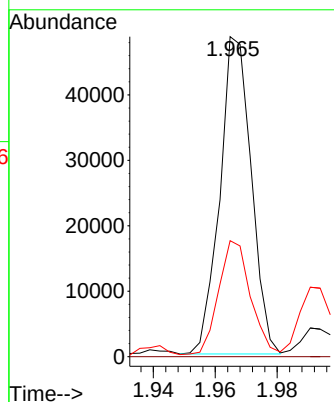
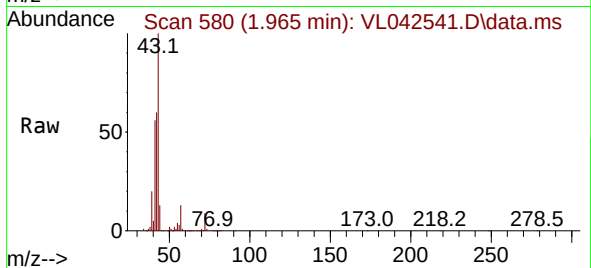




#21
 Allyl Chloride
 Concen: 2.407 ppbv
 RT: 1.965 min Scan# 580
 Delta R.T. -0.123 min
 Lab File: VL042541.D
 Acq: 14 May 2025 14:15

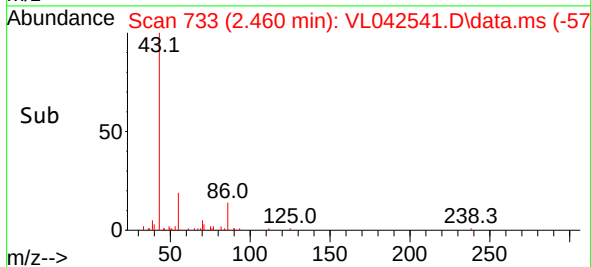
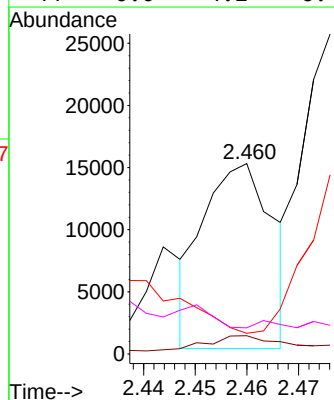
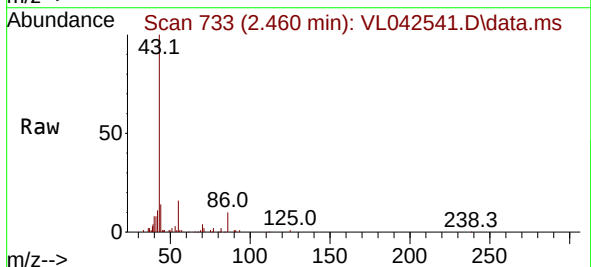
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

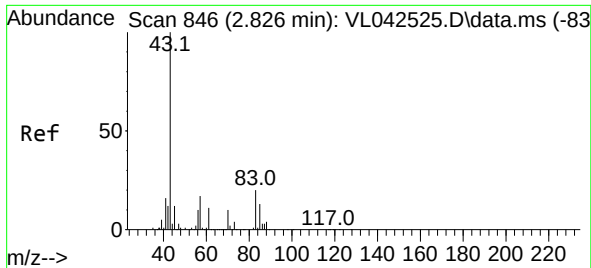
Tgt Ion: 41 Resp: 34258
 Ion Ratio Lower Upper
 41 100
 76 9.0 22.0 33.0#
 39 0.0 59.5 89.3#



#23
 Vinyl Acetate
 Concen: 0.619 ppbv
 RT: 2.460 min Scan# 733
 Delta R.T. 0.006 min
 Lab File: VL042541.D
 Acq: 14 May 2025 14:15

Tgt Ion: 43 Resp: 13937
 Ion Ratio Lower Upper
 43 100
 86 13.5 6.8 10.2#
 42 0.0 8.8 13.2#
 44 0.0 4.2 6.4#

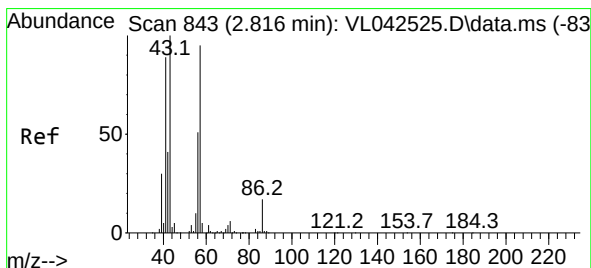
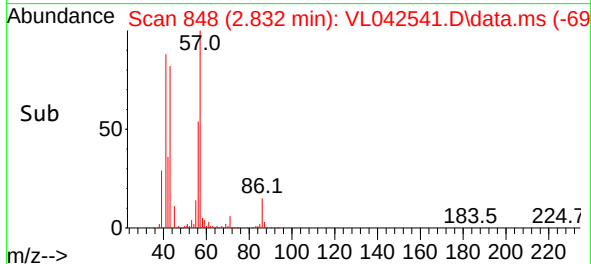
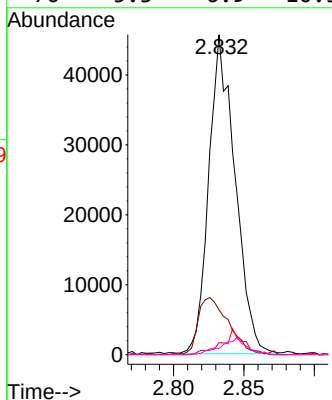
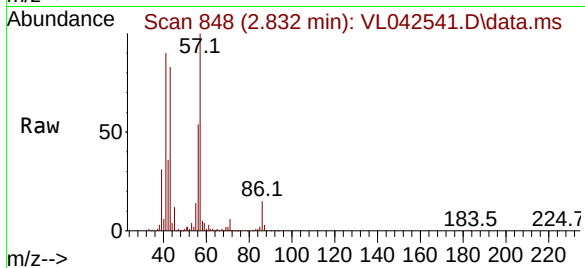




#25
Ethyl Acetate
Concen: 1.565 ppbv
RT: 2.832 min Scan# 848
Delta R.T. 0.006 min
Lab File: VL042541.D
Acq: 14 May 2025 14:15

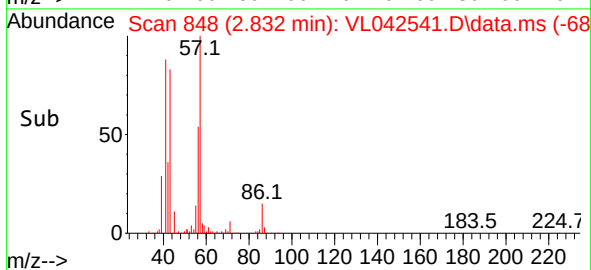
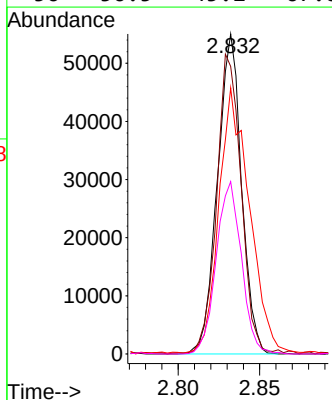
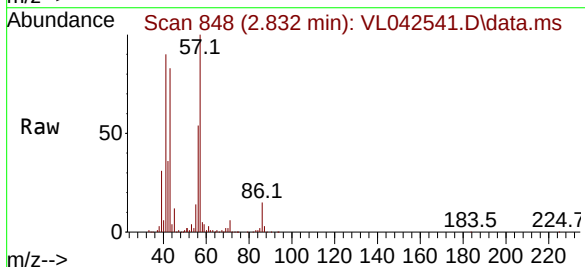
Instrument :
MSVOA_L
ClientSampleId :
IA1

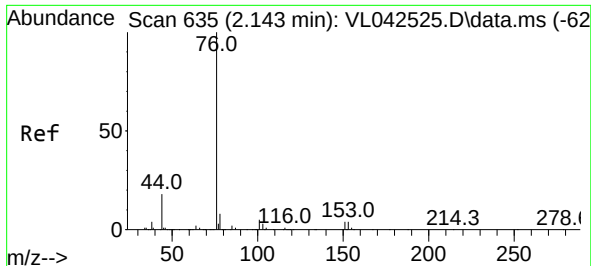
Tgt Ion: 43	Resp: 59084
Ion Ratio	Lower Upper
43	100
45	21.5 7.9 11.9#
61	6.4 7.1 10.7#
70	5.3 6.9 10.3#



#26
Hexane
Concen: 3.646 ppbv
RT: 2.832 min Scan# 848
Delta R.T. 0.016 min
Lab File: VL042541.D
Acq: 14 May 2025 14:15

Tgt Ion: 57	Resp: 56507
Ion Ratio	Lower Upper
57	100
41	96.5 76.1 114.1
43	107.0 188.9 283.3#
56	56.5 45.2 67.8





#27

Carbon Disulfide

Concen: 0.154 ppbv

RT: 2.152 min Scan# 61

Delta R.T. 0.009 min

Lab File: VL042541.D

Acq: 14 May 2025 14:15

Instrument :

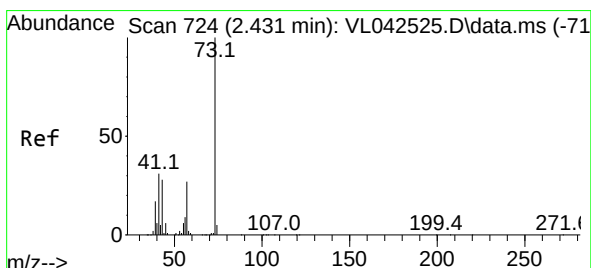
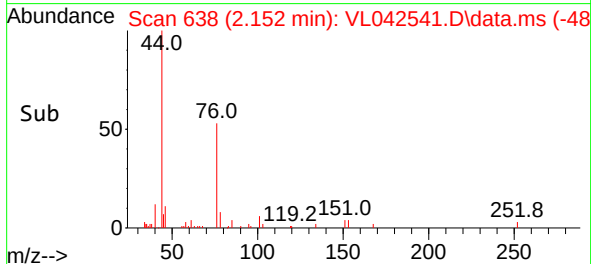
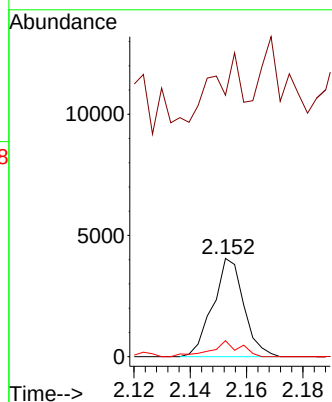
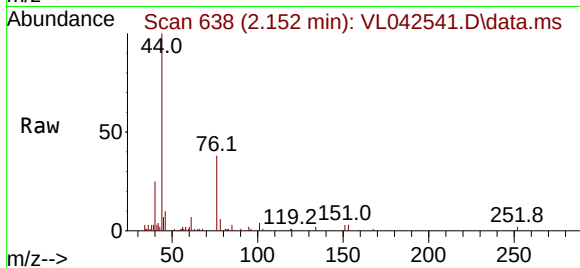
MSVOA_L

ClientSampleId :

IA1

Tgt Ion: 76 Resp: 3089

Ion	Ratio	Lower	Upper
76	100		
44	1010.6	17.1	25.7#
78	17.4	8.6	12.8#



#28

Methyl tert-Butyl Ether

Concen: 0.037 ppbv

RT: 2.450 min Scan# 730

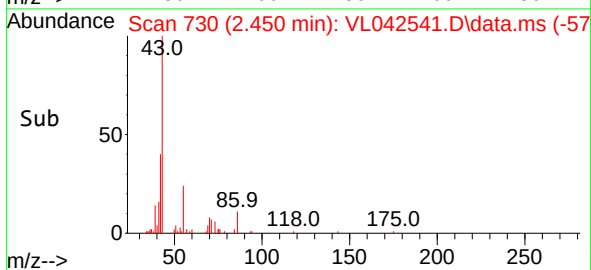
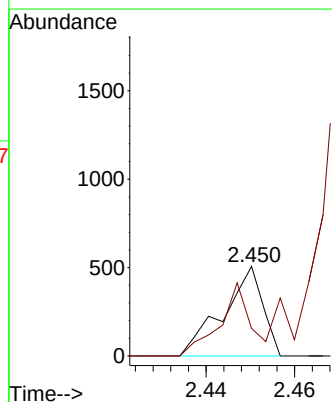
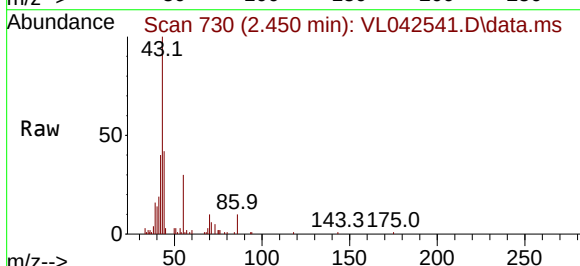
Delta R.T. 0.019 min

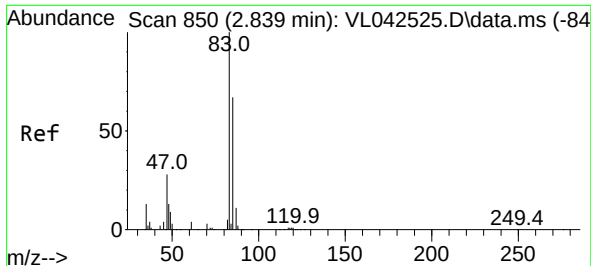
Lab File: VL042541.D

Acq: 14 May 2025 14:15

Tgt Ion: 73 Resp: 316

Ion	Ratio	Lower	Upper
73	100		
57	1306.3	20.3	30.5#





#29

Chloroform

Concen: 1.629 ppbv

RT: 2.852 min Scan# 81

Delta R.T. 0.013 min

Lab File: VL042541.D

Acq: 14 May 2025 14:15

Instrument :

MSVOA_L

ClientSampleId :

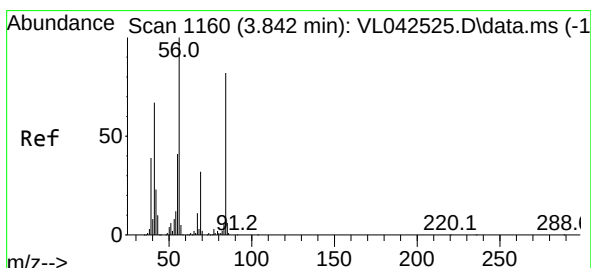
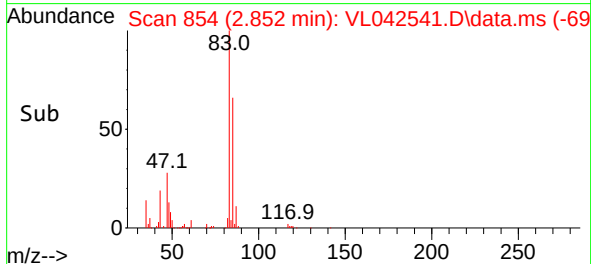
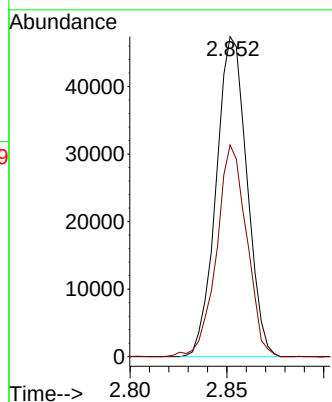
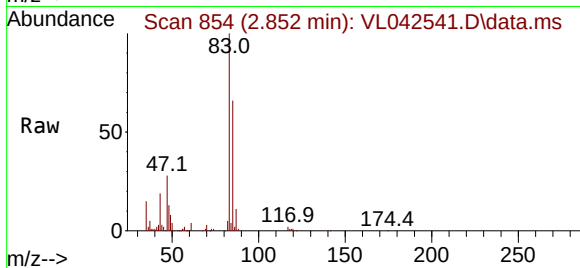
IA1

Tgt Ion: 83 Resp: 52359

Ion Ratio Lower Upper

83 100

85 66.2 53.5 80.3



#30

Cyclohexane

Concen: 1.350 ppbv

RT: 3.865 min Scan# 1167

Delta R.T. 0.022 min

Lab File: VL042541.D

Acq: 14 May 2025 14:15

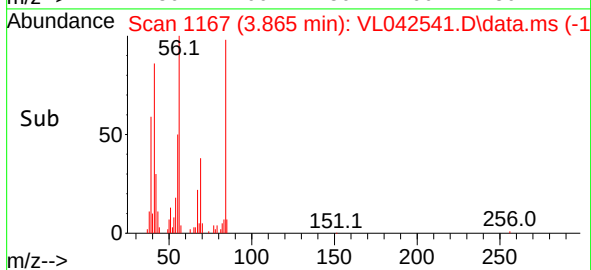
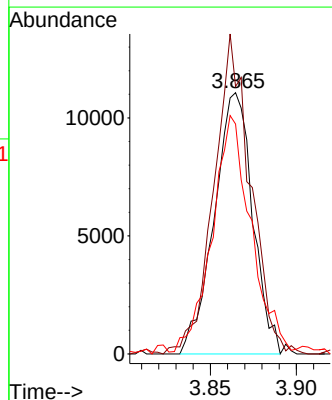
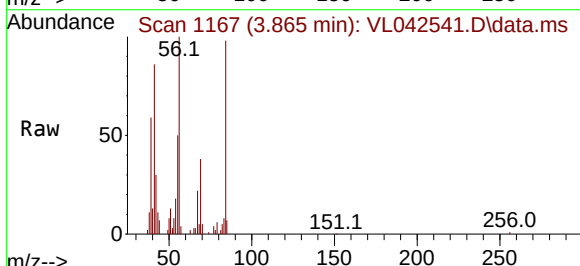
Tgt Ion: 84 Resp: 17180

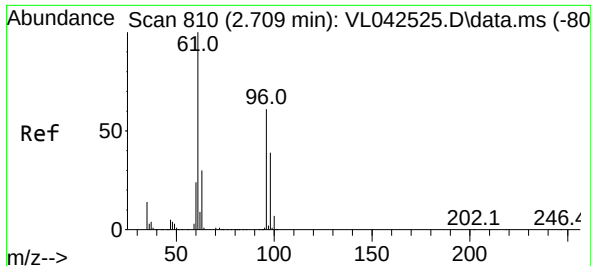
Ion Ratio Lower Upper

84 100

56 117.6 97.1 145.7

41 96.1 66.6 99.8

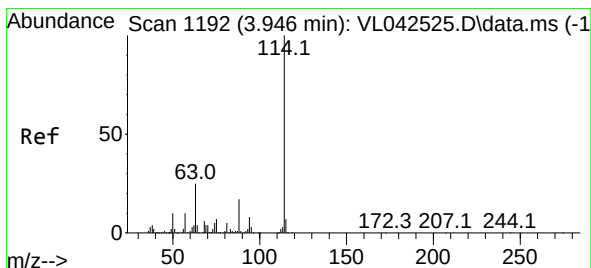
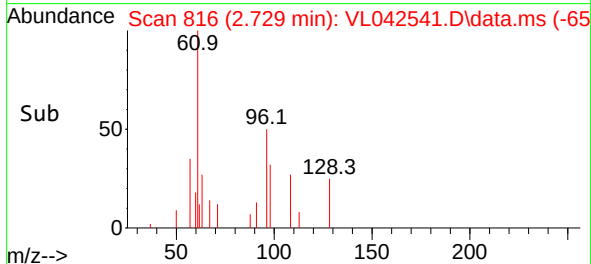
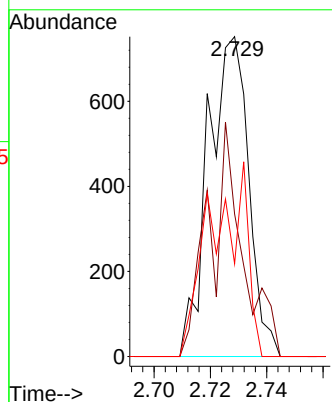
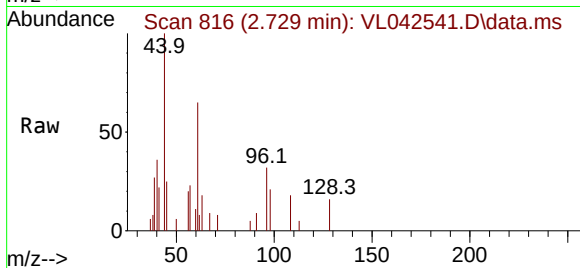




#31
 cis-1,2-Dichloroethene
 Concen: 0.043 ppbv
 RT: 2.729 min Scan# 810
 Delta R.T. 0.019 min
 Lab File: VL042541.D
 Acq: 14 May 2025 14:15

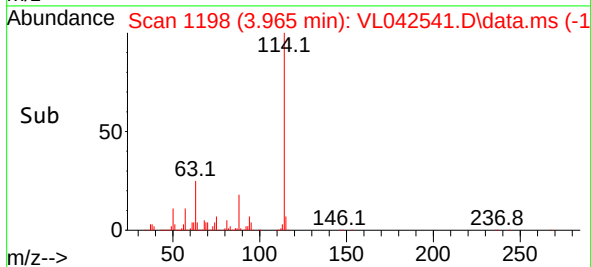
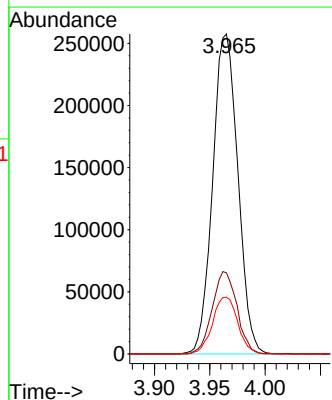
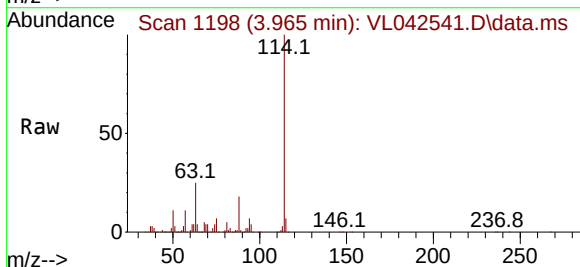
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

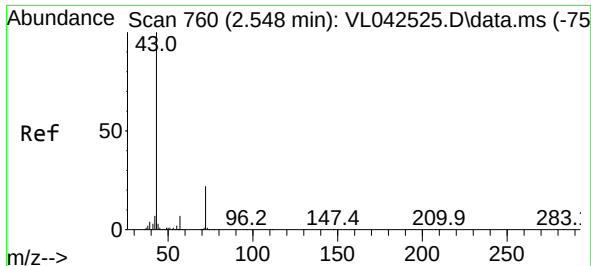
Tgt Ion: 61 Resp: 748
 Ion Ratio Lower Upper
 61 100
 96 44.5 48.9 73.3#
 98 29.0 31.4 47.2#



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.965 min Scan# 1198
 Delta R.T. 0.019 min
 Lab File: VL042541.D
 Acq: 14 May 2025 14:15

Tgt Ion: 114 Resp: 408032
 Ion Ratio Lower Upper
 114 100
 63 25.4 20.4 30.6
 88 17.8 14.5 21.7

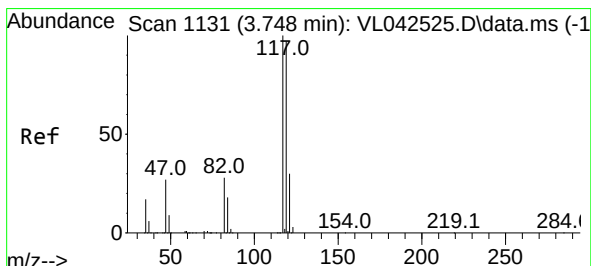
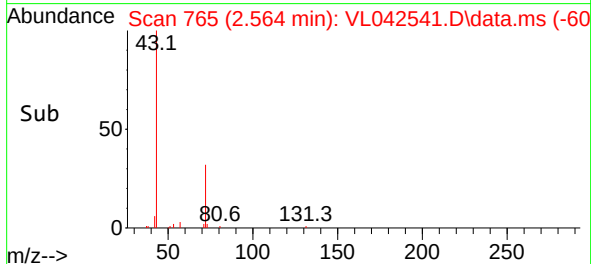
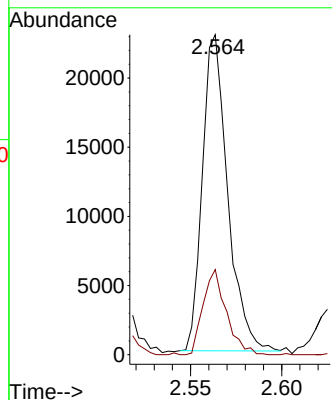
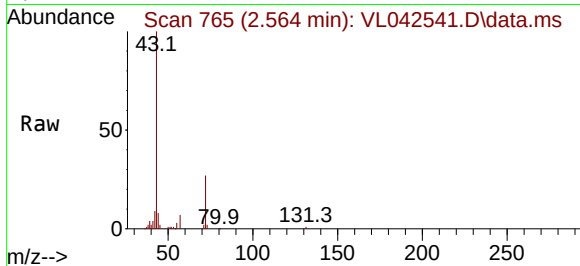




#34
2-Butanone
Concen: 0.822 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.016 min
Lab File: VL042541.D
Acq: 14 May 2025 14:15

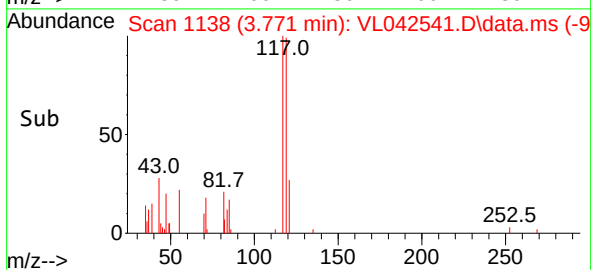
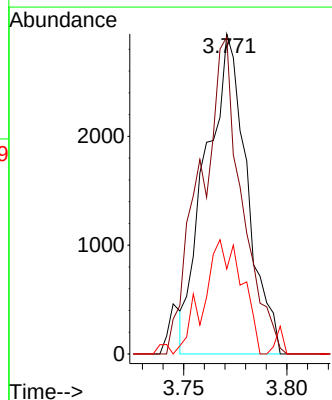
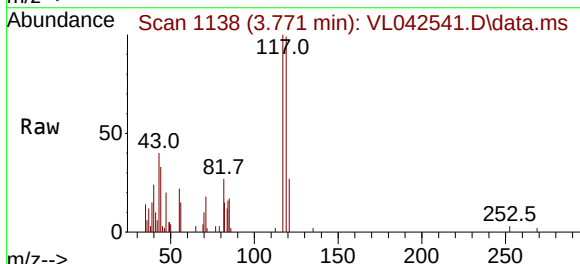
Instrument :
MSVOA_L
ClientSampleId :
IA1

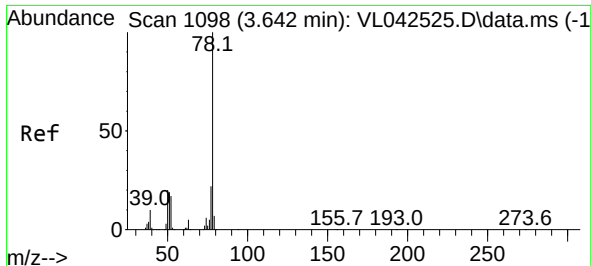
Tgt Ion: 43 Resp: 22109
Ion Ratio Lower Upper
43 100
72 24.8 18.7 28.1



#35
Carbon Tetrachloride
Concen: 0.111 ppbv
RT: 3.771 min Scan# 1138
Delta R.T. 0.022 min
Lab File: VL042541.D
Acq: 14 May 2025 14:15

Tgt Ion: 117 Resp: 4088
Ion Ratio Lower Upper
117 100
119 97.2 77.7 116.5
121 24.0 24.0 36.0

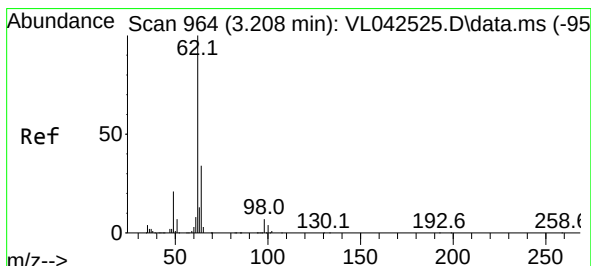
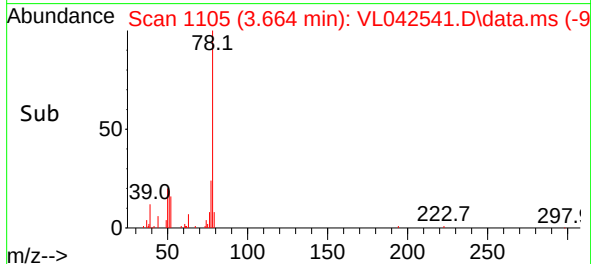
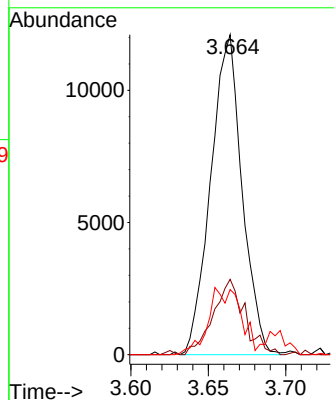
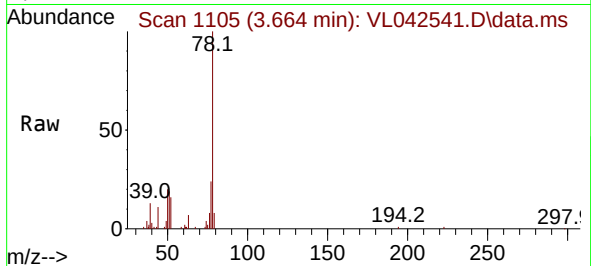




#36
Benzene
Concen: 0.471 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.022 min
Lab File: VL042541.D
Acq: 14 May 2025 14:15

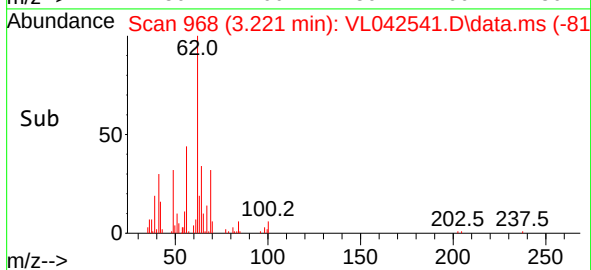
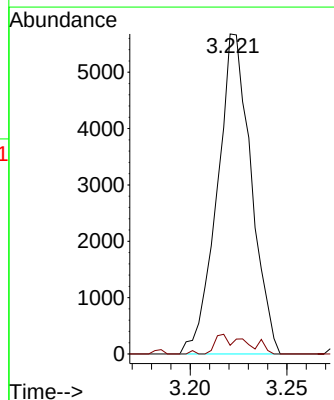
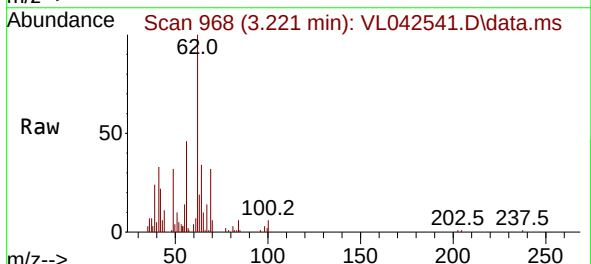
Instrument :
MSVOA_L
ClientSampleId :
IA1

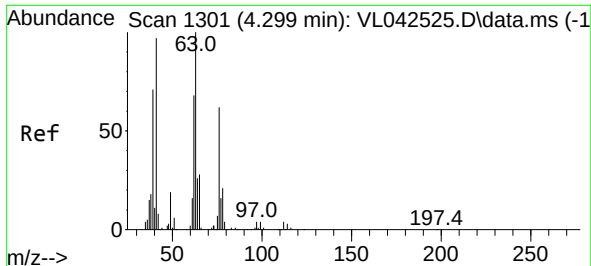
Tgt Ion: 78 Resp: 17040
Ion Ratio Lower Upper
78 100
77 23.6 17.4 26.2
50 19.9 16.3 24.5



#37
1,2-Dichloroethane
Concen: 0.269 ppbv
RT: 3.221 min Scan# 968
Delta R.T. 0.013 min
Lab File: VL042541.D
Acq: 14 May 2025 14:15

Tgt Ion: 62 Resp: 6929
Ion Ratio Lower Upper
62 100
98 5.8 5.0 7.4





#39

1,2-Dichloropropane

Concen: 7.607 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. -0.337 min

Lab File: VL042541.D

Acq: 14 May 2025 14:15

Instrument :

MSVOA_L

ClientSampleId :

IA1

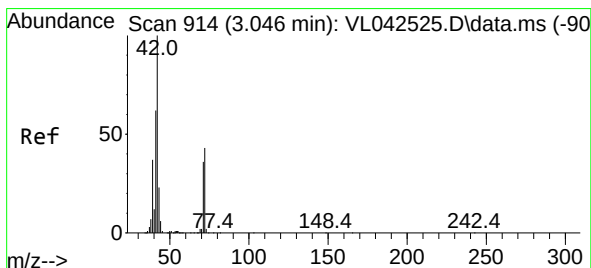
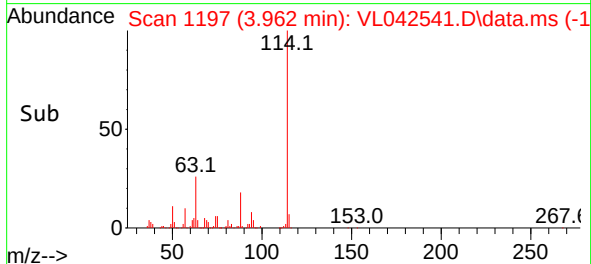
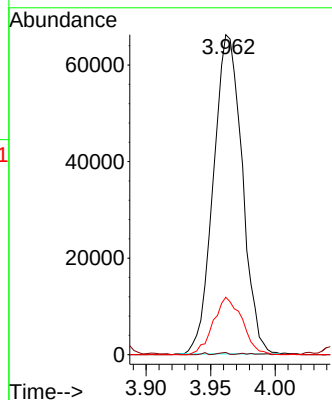
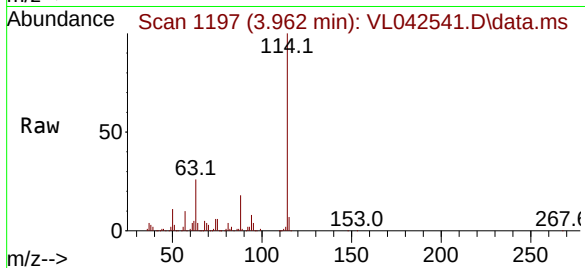
Tgt Ion: 63 Resp: 102455

Ion Ratio Lower Upper

63 100

41 0.7 77.5 116.3#

62 18.0 54.6 82.0#



#41

Tetrahydrofuran

Concen: 0.278 ppbv

RT: 3.068 min Scan# 921

Delta R.T. 0.022 min

Lab File: VL042541.D

Acq: 14 May 2025 14:15

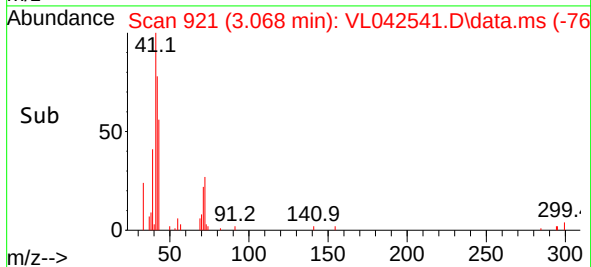
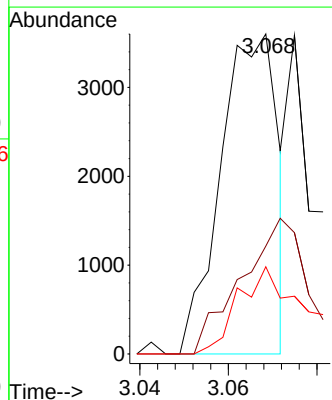
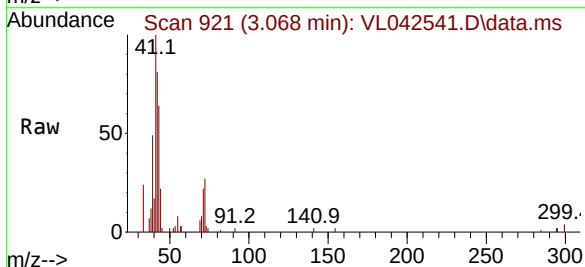
Tgt Ion: 42 Resp: 3236

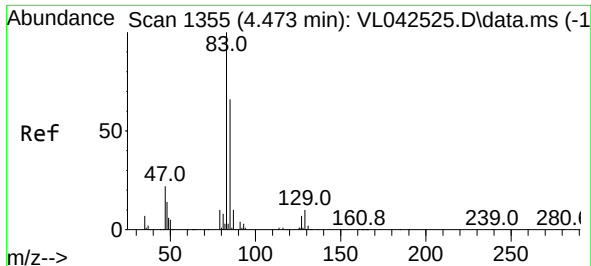
Ion Ratio Lower Upper

42 100

72 50.7 32.7 49.1#

71 34.3 30.4 45.6

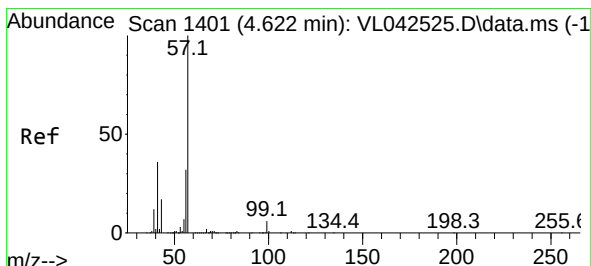
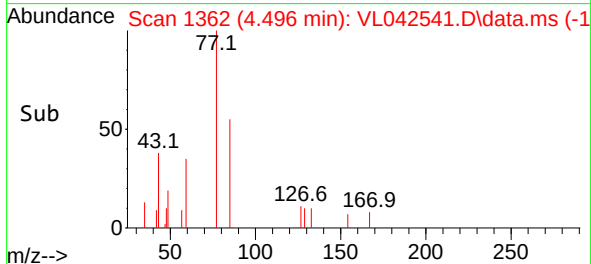
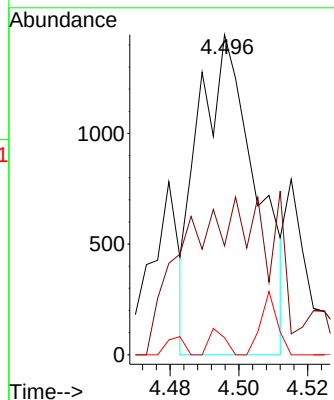
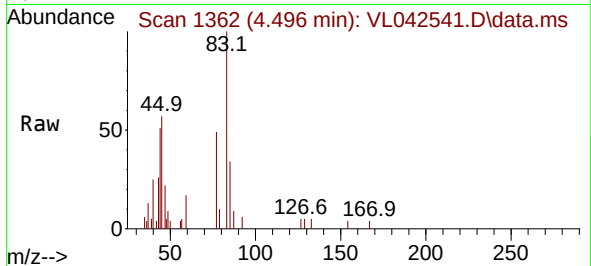




#42
 Bromodichloromethane
 Concen: 0.049 ppbv
 RT: 4.496 min Scan# 11
 Delta R.T. 0.022 min
 Lab File: VL042541.D
 Acq: 14 May 2025 14:15

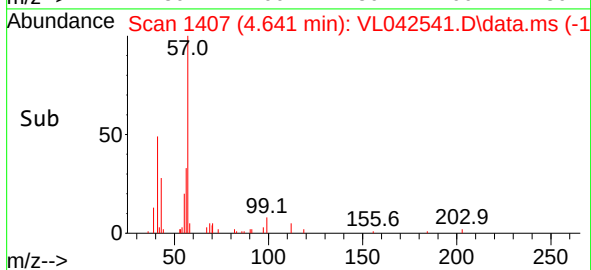
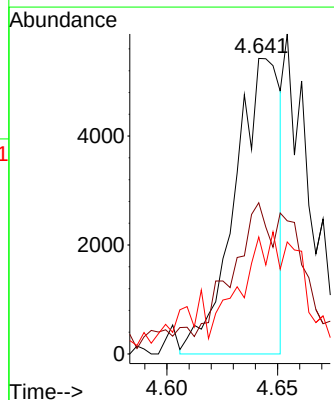
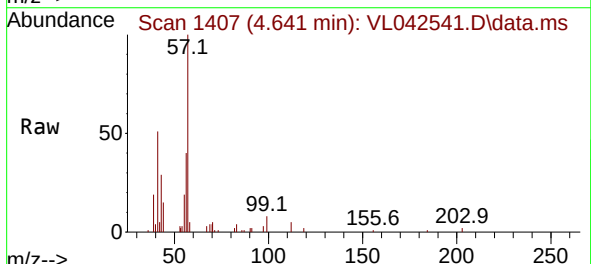
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

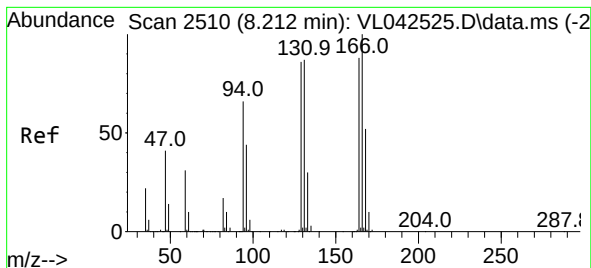
Tgt Ion: 83 Resp: 1684
 Ion Ratio Lower Upper
 83 100
 85 3.8 52.6 79.0#
 127 0.0 6.0 9.0#



#44
 2,2,4-Trimethylpentane
 Concen: 0.135 ppbv
 RT: 4.641 min Scan# 1407
 Delta R.T. 0.019 min
 Lab File: VL042541.D
 Acq: 14 May 2025 14:15

Tgt Ion: 57 Resp: 7712
 Ion Ratio Lower Upper
 57 100
 41 97.3 28.3 42.5#
 56 0.0 25.9 38.9#





#52

Tetrachloroethene

Concen: 0.251 ppbv

RT: 8.231 min Scan# 2118

Delta R.T. 0.019 min

Lab File: VL042541.D

Acq: 14 May 2025 14:15

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion:164 Resp: 3466

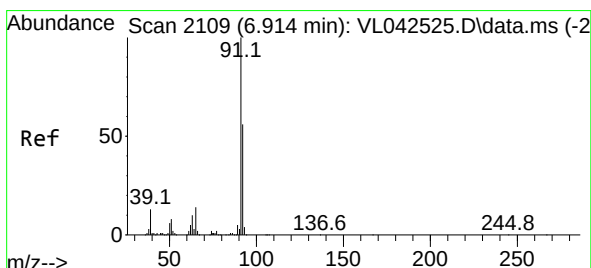
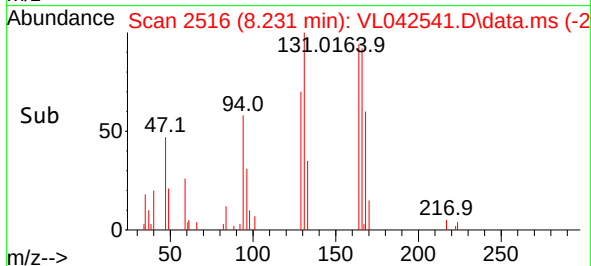
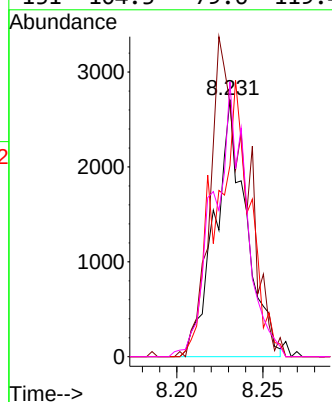
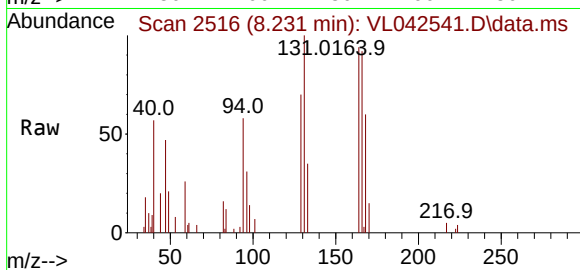
Ion Ratio Lower Upper

164 100

166 96.6 91.3 136.9

129 74.4 78.9 118.3#

131 104.3 79.6 119.4



#53

Toluene

Concen: 2.701 ppbv

RT: 6.943 min Scan# 2118

Delta R.T. 0.029 min

Lab File: VL042541.D

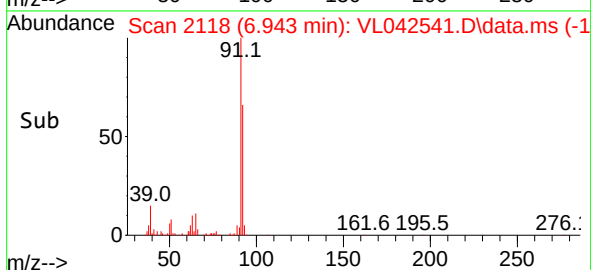
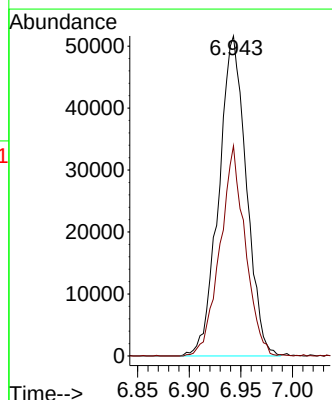
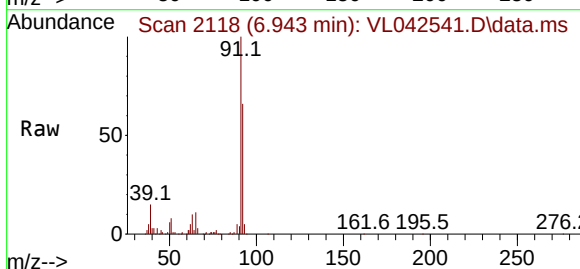
Acq: 14 May 2025 14:15

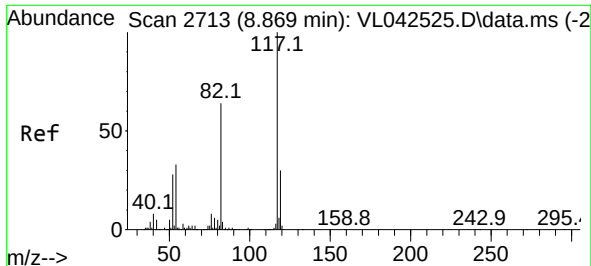
Tgt Ion: 91 Resp: 95844

Ion Ratio Lower Upper

91 100

92 60.2 47.8 71.6

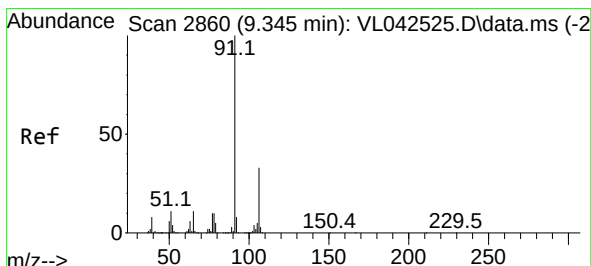
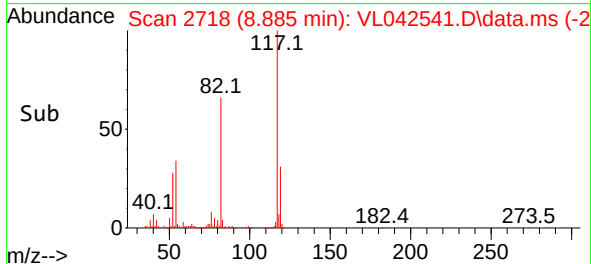
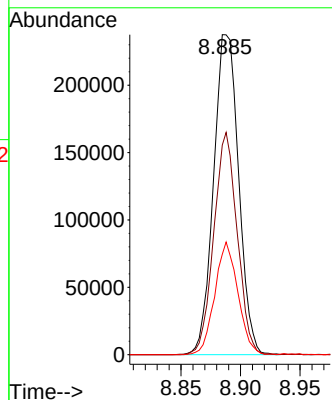
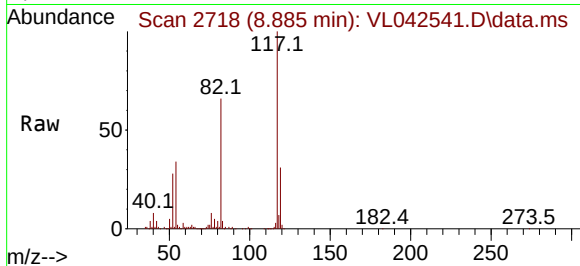




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 21
Delta R.T. 0.016 min
Lab File: VL042541.D
Acq: 14 May 2025 14:15

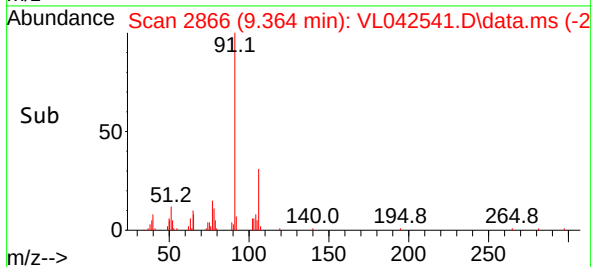
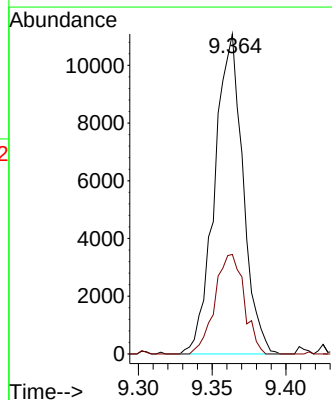
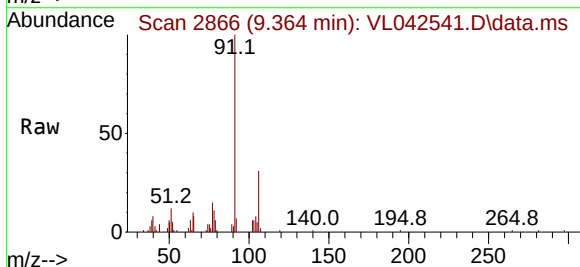
Instrument :
MSVOA_L
ClientSampleId :
IA1

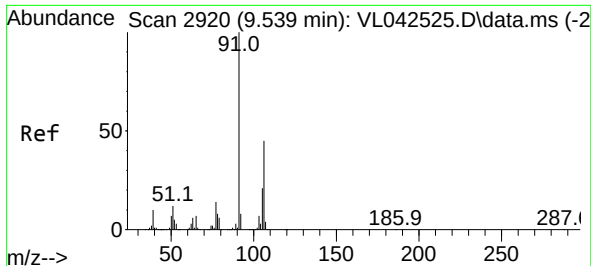
Tgt Ion:117 Resp: 347758
Ion Ratio Lower Upper
117 100
82 64.8 55.0 82.4
119 32.6 25.8 38.6



#58
Ethyl Benzene
Concen: 0.313 ppbv
RT: 9.364 min Scan# 2866
Delta R.T. 0.019 min
Lab File: VL042541.D
Acq: 14 May 2025 14:15

Tgt Ion: 91 Resp: 14851
Ion Ratio Lower Upper
91 100
106 31.1 26.0 39.0

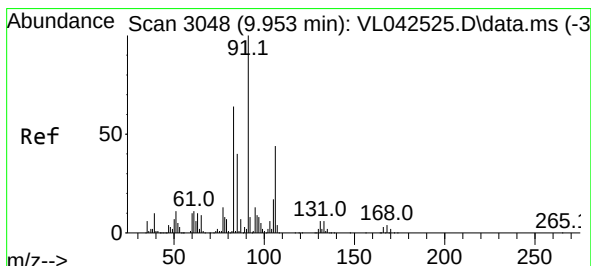
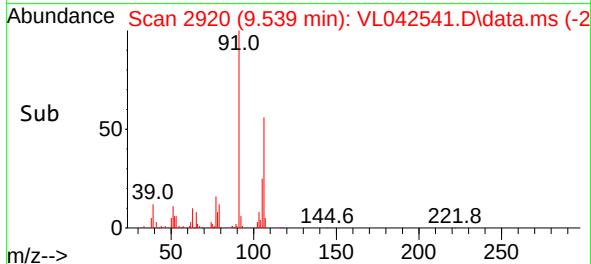
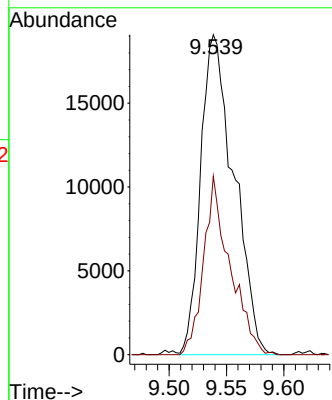
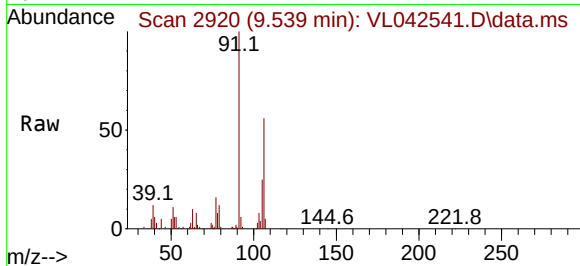




#59
m/p-Xylene
Concen: 0.911 ppbv
RT: 9.539 min Scan# 2920
Delta R.T. -0.000 min
Lab File: VL042541.D
Acq: 14 May 2025 14:15

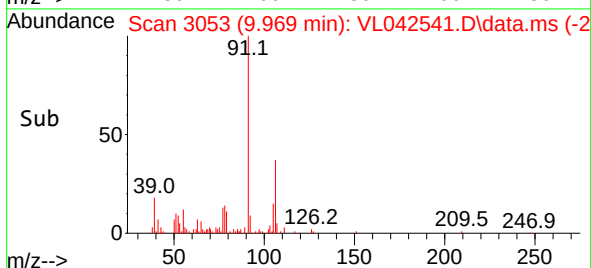
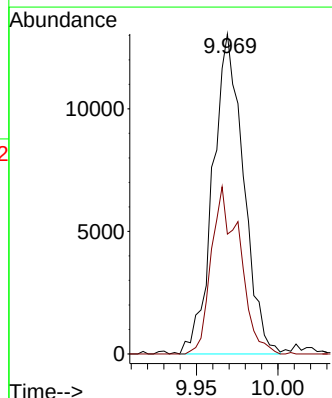
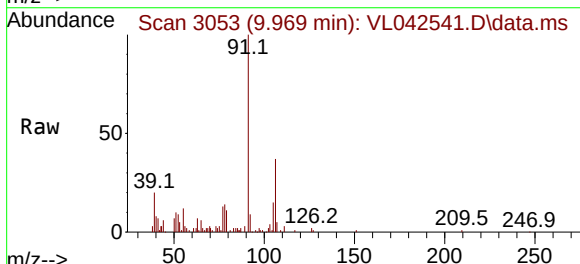
Instrument :
MSVOA_L
ClientSampleId :
IA1

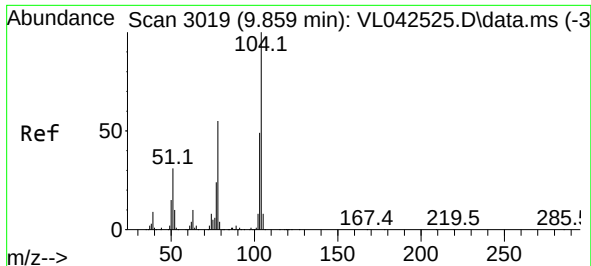
Tgt Ion: 91 Resp: 38335
Ion Ratio Lower Upper
91 100
106 44.2 0.0 0.0#



#60
o-Xylene
Concen: 0.415 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. 0.016 min
Lab File: VL042541.D
Acq: 14 May 2025 14:15

Tgt Ion: 91 Resp: 17042
Ion Ratio Lower Upper
91 100
106 48.7 21.6 64.6

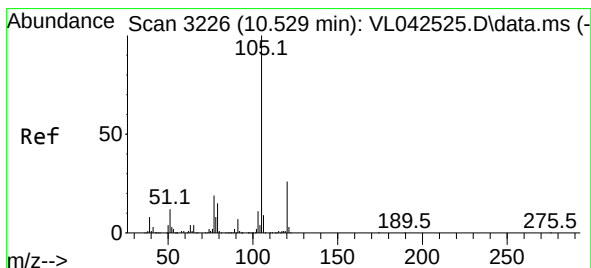
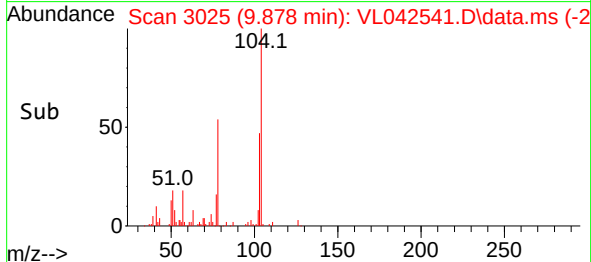
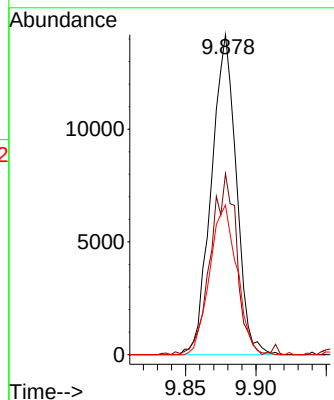
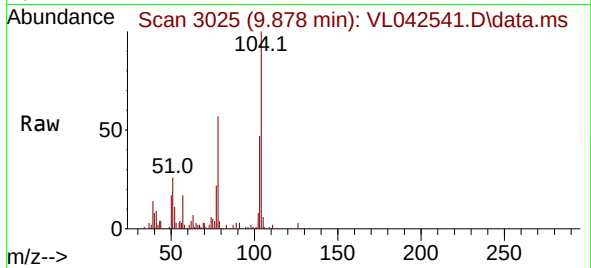




#61
Styrene
Concen: 1.151 ppbv
RT: 9.878 min Scan# 3019
Delta R.T. 0.019 min
Lab File: VL042541.D
Acq: 14 May 2025 14:15

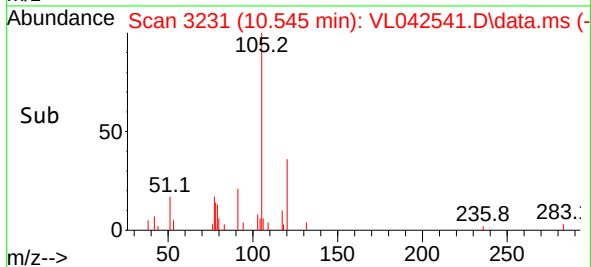
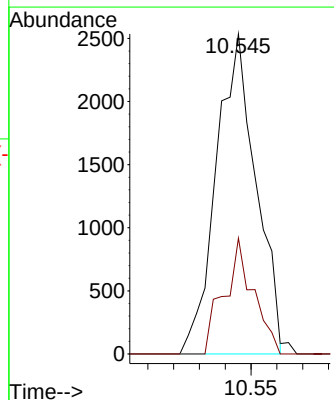
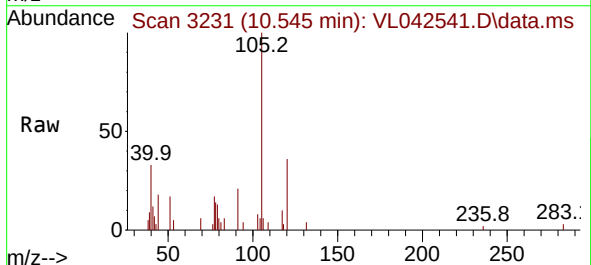
Instrument :
MSVOA_L
ClientSampleId :
IA1

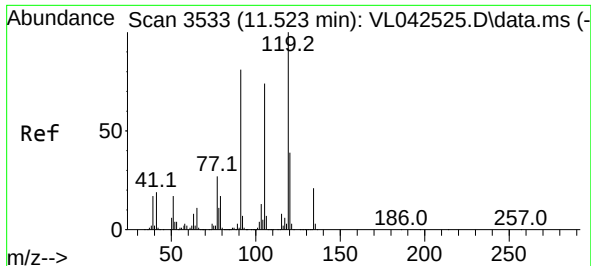
Tgt Ion:104 Resp: 17521
Ion Ratio Lower Upper
104 100
78 59.7 44.7 67.1
103 50.8 38.6 58.0



#62
Isopropylbenzene
Concen: 0.044 ppbv
RT: 10.545 min Scan# 3231
Delta R.T. 0.016 min
Lab File: VL042541.D
Acq: 14 May 2025 14:15

Tgt Ion:105 Resp: 2710
Ion Ratio Lower Upper
105 100
120 26.6 20.1 30.1

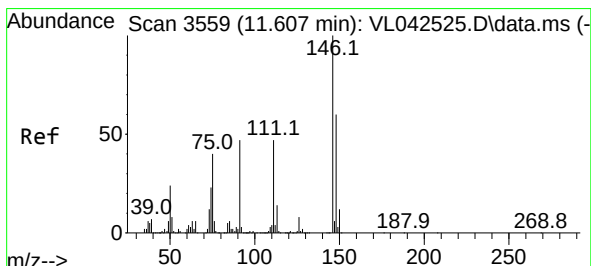
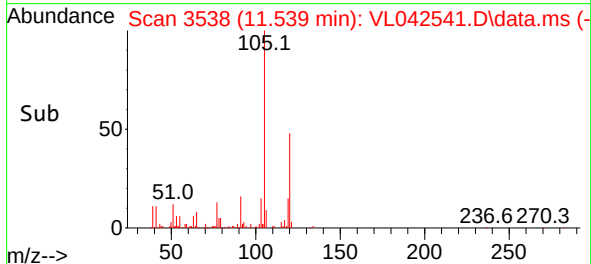
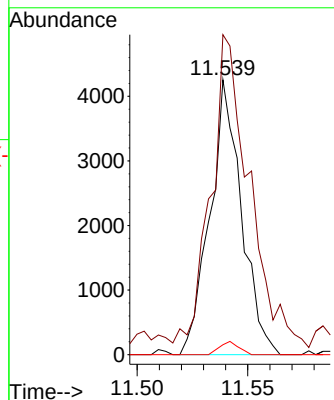
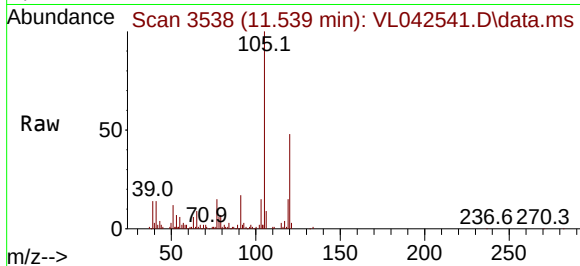




#65
tert-Butylbenzene
Concen: 0.074 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.016 min
Lab File: VL042541.D
Acq: 14 May 2025 14:15

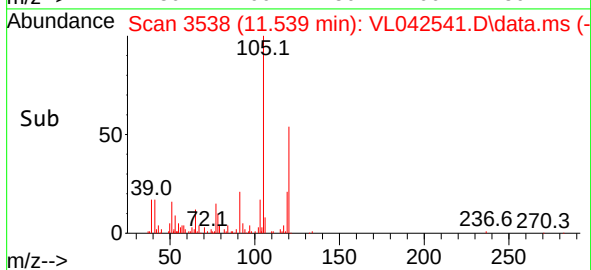
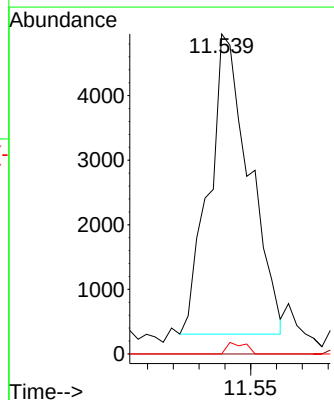
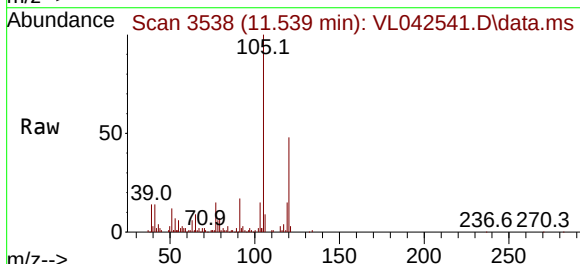
Instrument :
MSVOA_L
ClientSampleId :
IA1

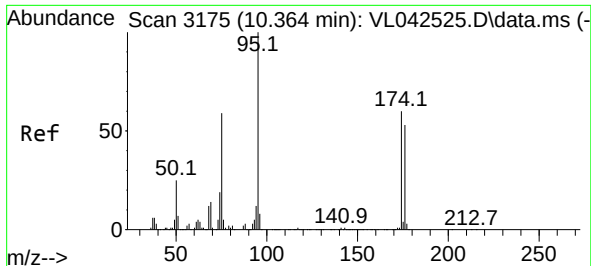
Tgt Ion: 119 Resp: 4217
Ion Ratio Lower Upper
119 100
91 150.9 66.6 99.8#
134 2.9 16.3 24.5#



#66
Benzyl Chloride
Concen: 0.667 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. -0.068 min
Lab File: VL042541.D
Acq: 14 May 2025 14:15

Tgt Ion: 91 Resp: 5042
Ion Ratio Lower Upper
91 100
126 0.6 13.7 20.5#
128 1.8 4.2 6.2#

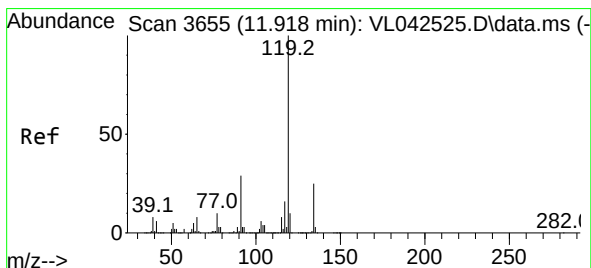
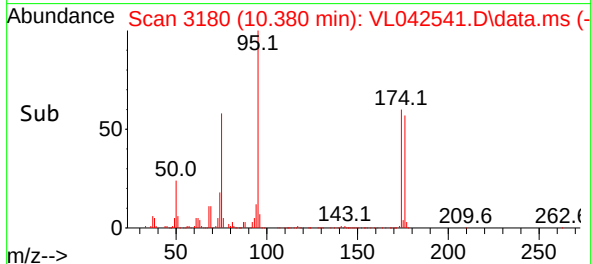
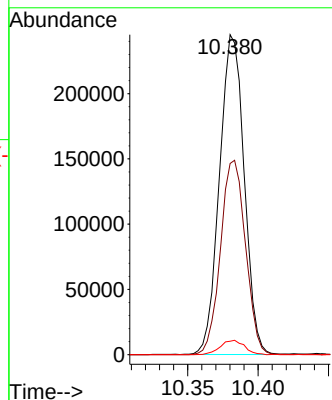
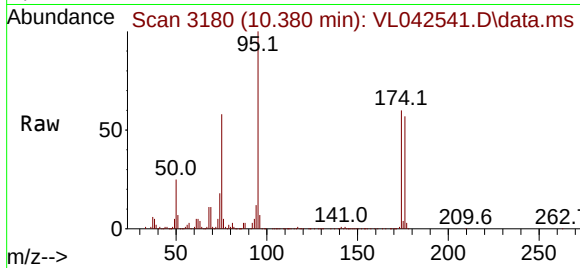




#68
1-Bromo-4-Fluorobenzene
Concen: 9.897 ppbv
RT: 10.380 min Scan# 3175
Delta R.T. 0.016 min
Lab File: VL042541.D
Acq: 14 May 2025 14:15

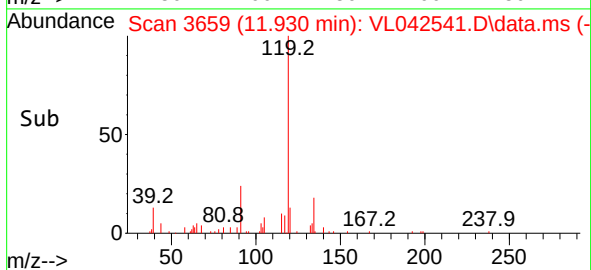
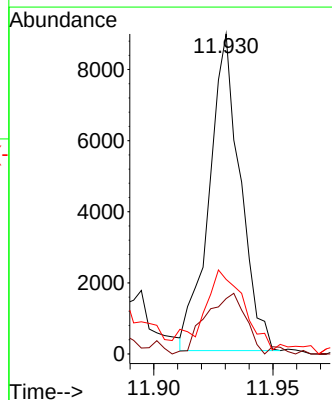
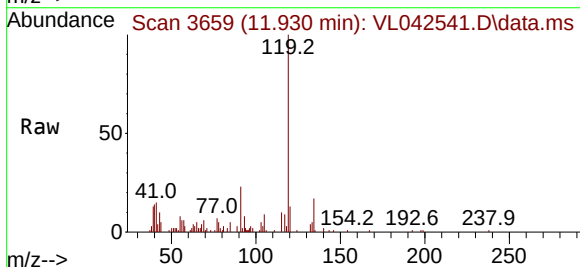
Instrument :
MSVOA_L
ClientSampleId :
IA1

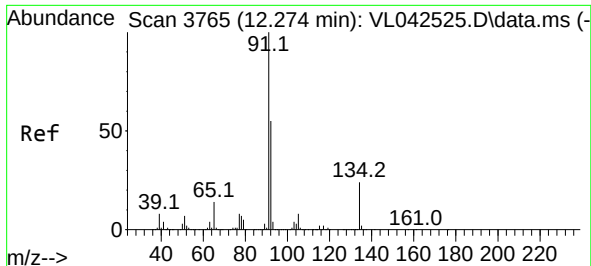
Tgt Ion: 95 Resp: 299463
Ion Ratio Lower Upper
95 100
174 61.6 48.0 72.0
175 4.4 3.5 5.3



#69
p-Isopropyltoluene
Concen: 0.121 ppbv
RT: 11.930 min Scan# 3659
Delta R.T. 0.013 min
Lab File: VL042541.D
Acq: 14 May 2025 14:15

Tgt Ion: 119 Resp: 8127
Ion Ratio Lower Upper
119 100
134 25.6 19.8 29.6
91 33.6 23.6 35.4

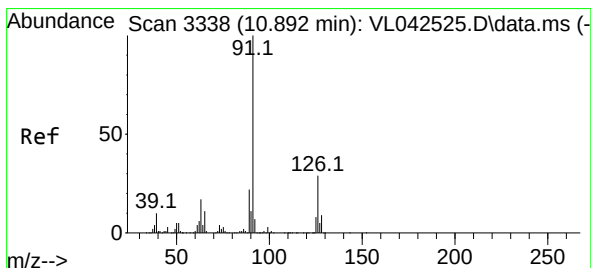
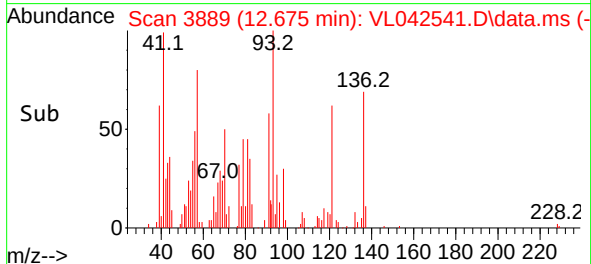
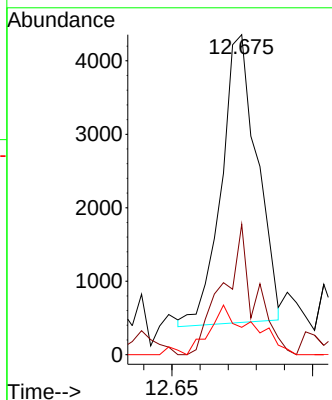
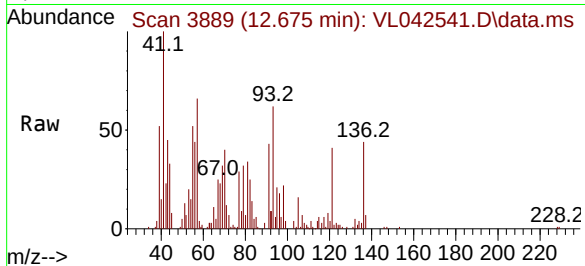




#70
n-Butylbenzene
Concen: 0.052 ppbv
RT: 12.675 min Scan# 3435
Delta R.T. 0.401 min
Lab File: VL042541.D
Acq: 14 May 2025 14:15

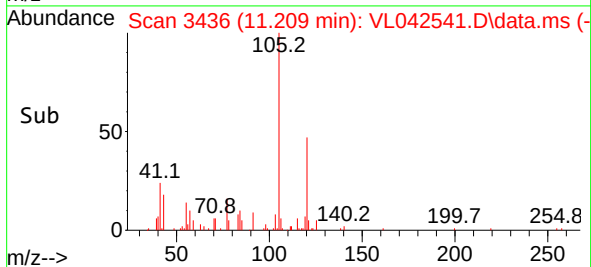
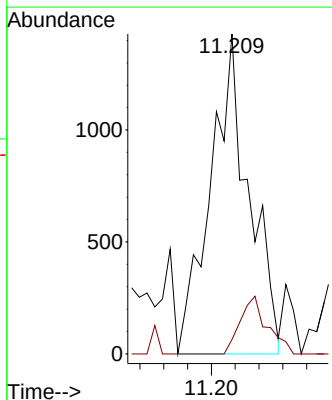
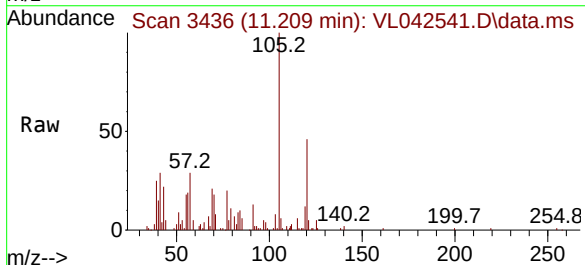
Instrument :
MSVOA_L
ClientSampleId :
IA1

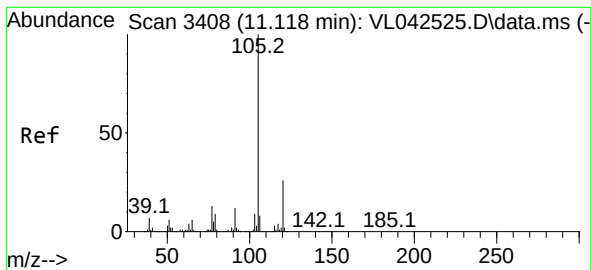
Tgt Ion: 91 Resp: 3450
Ion Ratio Lower Upper
91 100
92 44.7 43.7 65.5
134 21.4 18.9 28.3



#71
2-Chlorotoluene
Concen: 0.034 ppbv
RT: 11.209 min Scan# 3436
Delta R.T. 0.317 min
Lab File: VL042541.D
Acq: 14 May 2025 14:15

Tgt Ion: 91 Resp: 1601
Ion Ratio Lower Upper
91 100
126 12.7 11.4 45.6

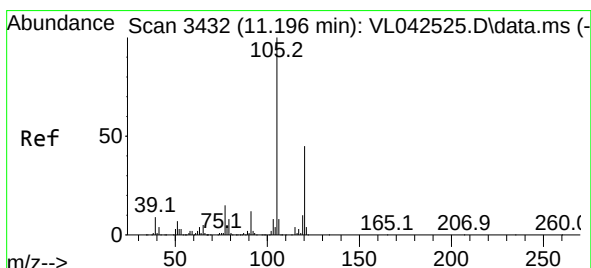
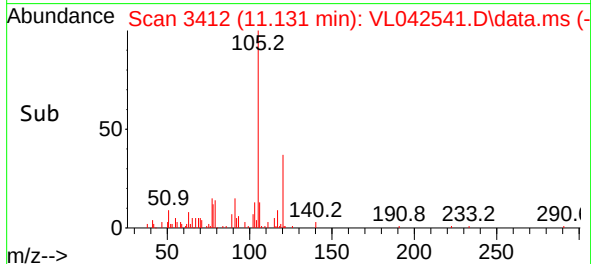
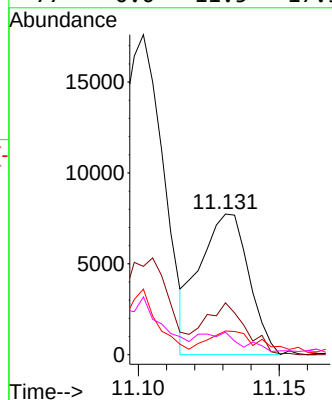
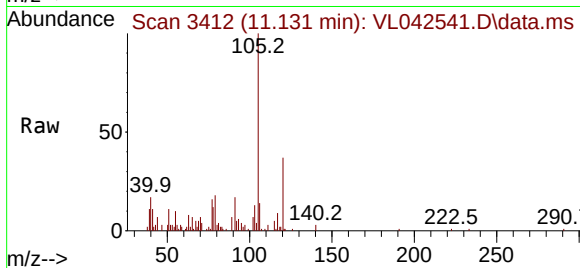




#72
4-Ethyltoluene
Concen: 0.185 ppbv
RT: 11.131 min Scan# 3412
Delta R.T. 0.013 min
Lab File: VL042541.D
Acq: 14 May 2025 14:15

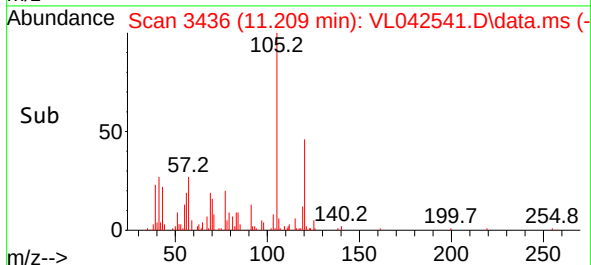
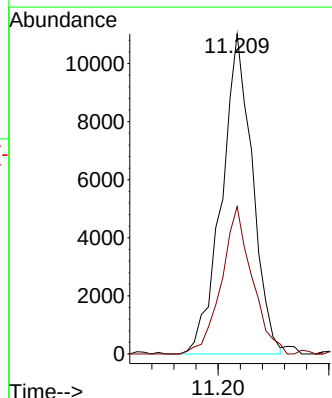
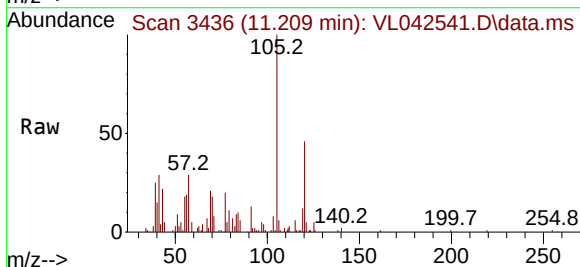
Instrument :
MSVOA_L
ClientSampleId :
IA1

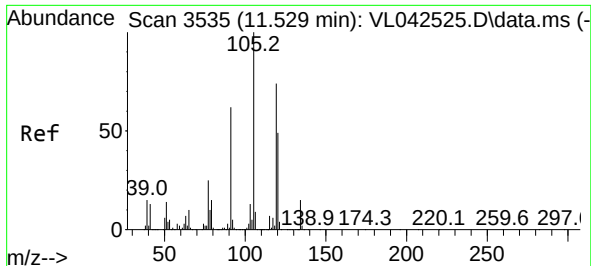
Tgt Ion:105 Resp: 9443
Ion Ratio Lower Upper
105 100
120 0.0 22.9 34.3#
91 16.8 10.9 16.3#
77 0.0 11.5 17.3#



#73
1,3,5-Trimethylbenzene
Concen: 0.239 ppbv
RT: 11.209 min Scan# 3436
Delta R.T. 0.013 min
Lab File: VL042541.D
Acq: 14 May 2025 14:15

Tgt Ion:105 Resp: 10634
Ion Ratio Lower Upper
105 100
120 46.1 36.0 54.0

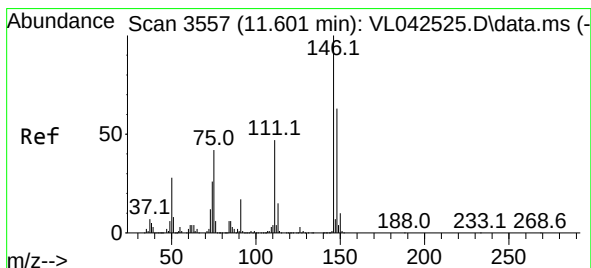
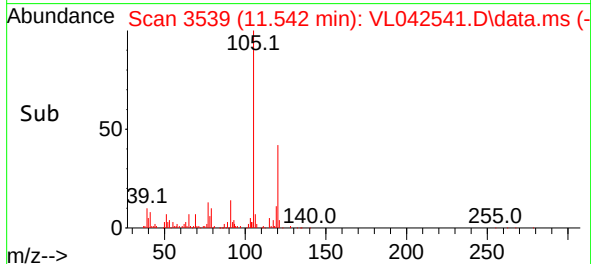
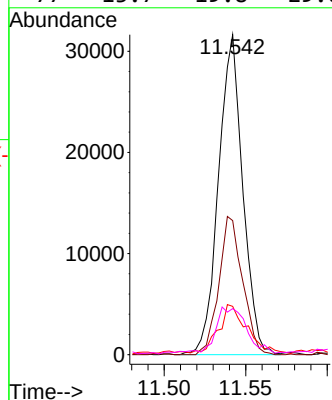
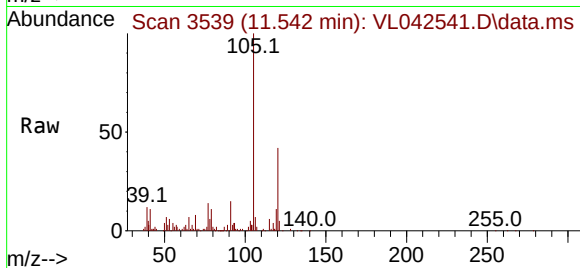




#74
 1,2,4-Trimethylbenzene
 Concen: 0.599 ppbv
 RT: 11.542 min Scan# 3539
 Delta R.T. 0.013 min
 Lab File: VL042541.D
 Acq: 14 May 2025 14:15

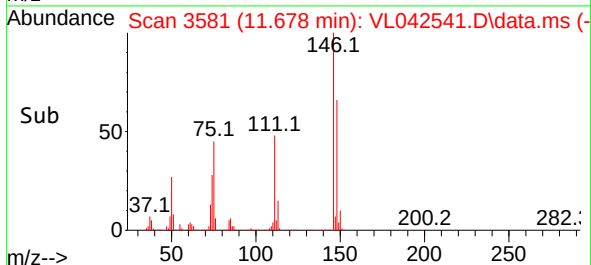
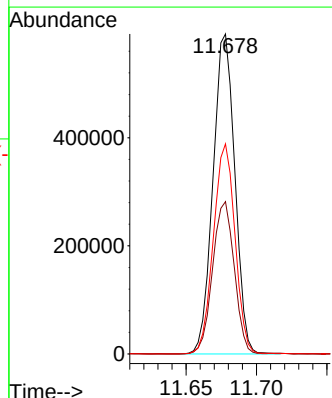
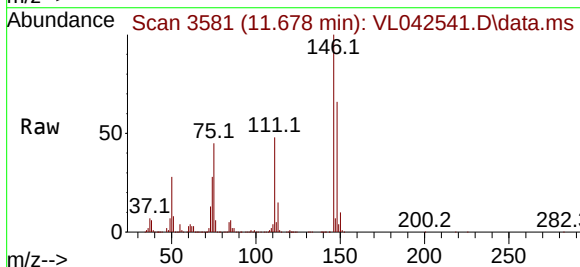
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

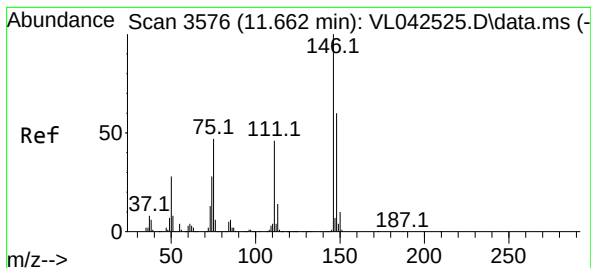
Tgt Ion:	105	Resp:	32735
Ion	Ratio	Lower	Upper
105	100		
120	41.9	39.0	58.6
91	14.1	49.4	74.2#
77	13.7	19.8	29.6#



#75
 1,3-Dichlorobenzene
 Concen: 18.667 ppbv
 RT: 11.678 min Scan# 3581
 Delta R.T. 0.077 min
 Lab File: VL042541.D
 Acq: 14 May 2025 14:15

Tgt Ion:	146	Resp:	638942
Ion	Ratio	Lower	Upper
146	100		
111	47.7	23.6	71.0
148	65.1	31.6	94.8





#76

1,4-Dichlorobenzene

Concen: 19.620 ppbv

RT: 11.678 min Scan# 3581

Delta R.T. 0.016 min

Lab File: VL042541.D

Acq: 14 May 2025 14:15

Instrument :

MSVOA_1

ClientSampleId :

IA1

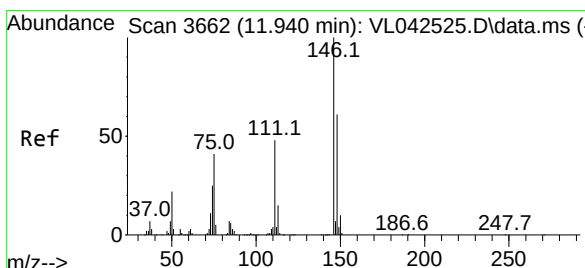
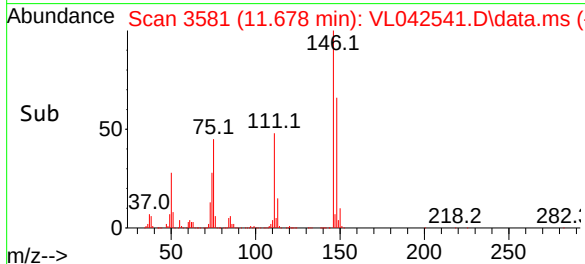
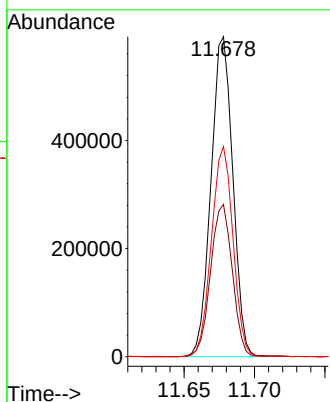
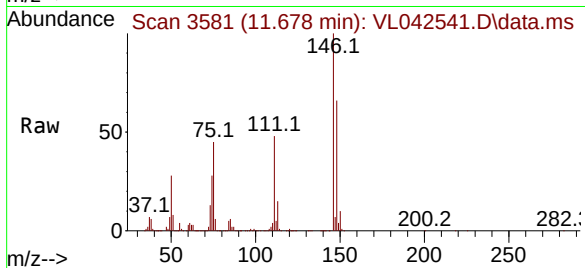
Tgt Ion:146 Resp: 638942

Ion Ratio Lower Upper

146 100

111 47.6 23.4 70.3

148 65.1 31.6 94.7



#77

1,2-Dichlorobenzene

Concen: 18.071 ppbv

RT: 11.678 min Scan# 3581

Delta R.T. -0.262 min

Lab File: VL042541.D

Acq: 14 May 2025 14:15

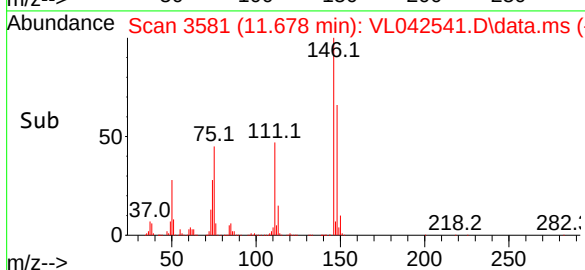
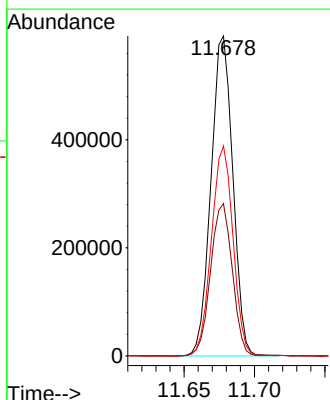
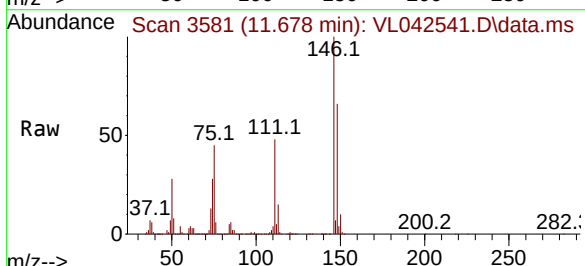
Tgt Ion:146 Resp: 638942

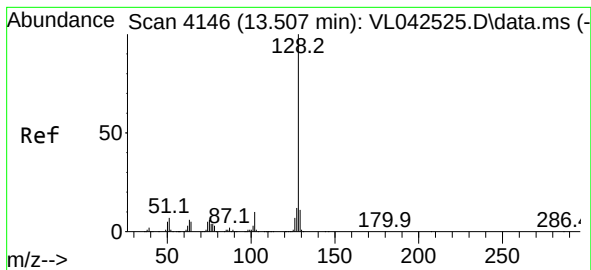
Ion Ratio Lower Upper

146 100

111 47.7 24.9 74.8

148 65.1 31.4 94.2





#79

Naphthalene

Concen: 0.204 ppbv

RT: 13.520 min Scan# 4146

Delta R.T. 0.013 min

Lab File: VL042541.D

Acq: 14 May 2025 14:15

Instrument :

MSVOA_L

ClientSampleId :

IA1

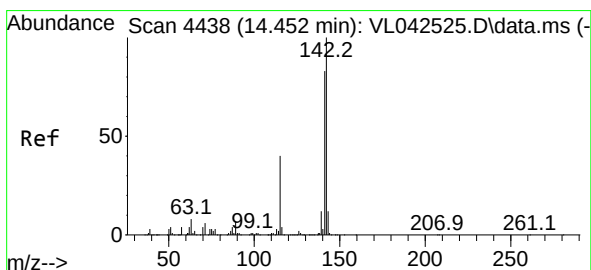
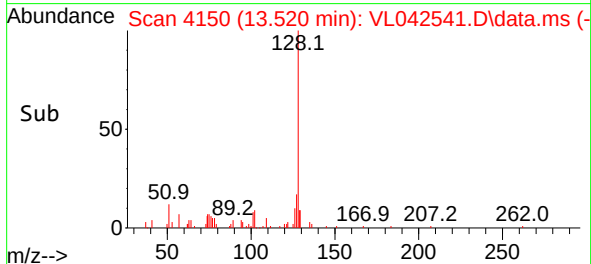
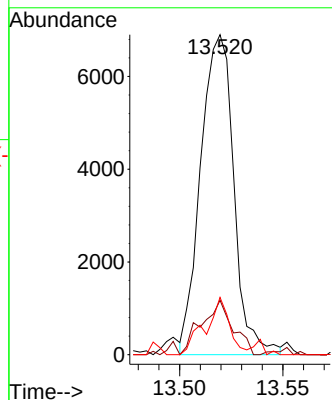
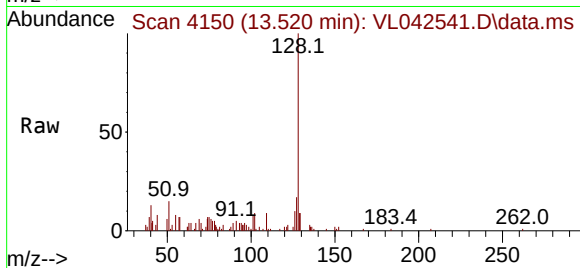
Tgt Ion:128 Resp: 7709

Ion Ratio Lower Upper

128 100

127 17.4 9.8 14.8#

129 18.3 8.6 12.8#



#80

Naphthalene,2-methyl-

Concen: 0.130 ppbv

RT: 14.468 min Scan# 4443

Delta R.T. 0.016 min

Lab File: VL042541.D

Acq: 14 May 2025 14:15

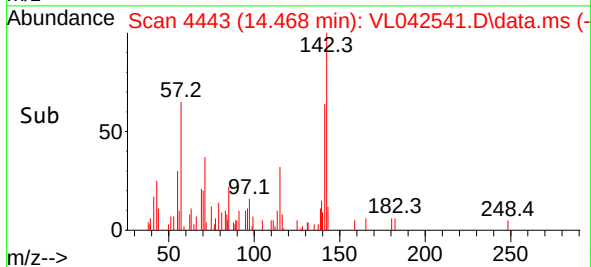
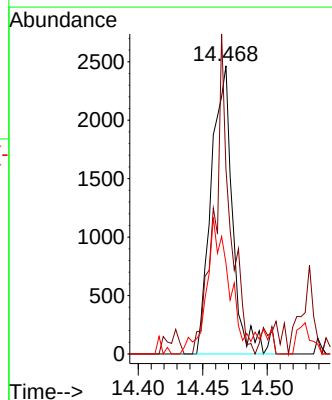
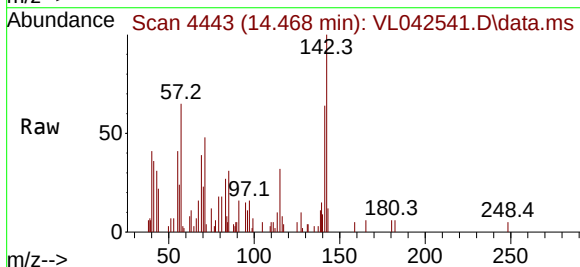
Tgt Ion:142 Resp: 2848

Ion Ratio Lower Upper

142 100

141 90.7 66.8 100.2

115 57.1 33.0 49.6#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051425\
 Data File : VL042543.D
 Acq On : 14 May 2025 15:22
 Operator : SY/MD
 Sample : Q2037-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Quant Time: May 15 01:36:14 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue May 13 02:07:03 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	130699	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	3.965	114	384048	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.888	117	350637	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	285416	9.355	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.600%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	2656	0.125	ppbv	89
3) Chlorodifluoromethane	1.476	51	18980	0.878	ppbv #	86
7) Chloroethane	1.706	64	217	0.062	ppbv #	86
9) Propene	1.486	41	2823	0.602	ppbv #	1
10) Heptane	4.981	43	1792	0.100	ppbv #	1
13) Ethanol	1.437	45	143247	113.542	ppbv #	38
15) Acetone	1.839	43	116054	5.509	ppbv	98
16) 1,3-Butadiene	1.602	39	2375	0.253	ppbv #	35
17) tert-Butyl alcohol	2.042	59	825	0.043	ppbv #	1
19) Isopropyl Alcohol	1.437	45	143247	12.626	ppbv #	95
20) Methylene Chloride	2.065	84	6263	0.861	ppbv	94
23) Vinyl Acetate	2.450	43	739	0.034	ppbv #	45
25) Ethyl Acetate	2.829	43	34510	0.941	ppbv #	78
26) Hexane	2.829	57	49602	3.295	ppbv #	39
27) Carbon Disulfide	2.152	76	998	0.051	ppbv #	1
29) Chloroform	2.852	83	1501	0.048	ppbv	98
30) Cyclohexane	3.861	84	487	0.039	ppbv #	1
34) 2-Butanone	2.560	43	37395	1.477	ppbv	100
39) 1,2-Dichloropropane	3.962	63	98581	7.776	ppbv #	16
41) Tetrahydrofuran	3.062	42	924	0.084	ppbv #	36
51) 2-Hexanone	7.444	43	55848	2.525	ppbv #	86
53) Toluene	6.943	91	41032	1.229	ppbv	99
57) Chlorobenzene	8.878	112	2304	0.065	ppbv #	64
58) Ethyl Benzene	9.361	91	38568	0.807	ppbv	94
59) m/p-Xylene	9.535	91	87346	2.058	ppbv #	100
60) o-Xylene	9.966	91	51527	1.243	ppbv	97
61) Styrene	9.872	104	905	0.059	ppbv #	58
62) Isopropylbenzene	10.545	105	23812	0.381	ppbv	97
63) 1,1,2,2-Tetrachloroethane	9.988	83	5132	0.153	ppbv #	1
64) n-propylbenzene	10.992	120	14270	0.900	ppbv	90
65) tert-Butylbenzene	11.539	119	11461	0.200	ppbv #	37
66) Benzyl Chloride	11.629	91	417	0.055	ppbv #	1
67) sec-Butylbenzene	12.047	105	3334	0.041	ppbv	96
69) p-Isopropyltoluene	11.930	119	22274	0.330	ppbv	98
71) 2-Chlorotoluene	11.102	91	16459	0.348	ppbv	91
72) 4-Ethyltoluene	11.131	105	35977	0.700	ppbv #	56
73) 1,3,5-Trimethylbenzene	11.209	105	41636	0.930	ppbv	99
74) 1,2,4-Trimethylbenzene	11.542	105	89411	1.623	ppbv #	60
75) 1,3-Dichlorobenzene	11.675	146	4994	0.145	ppbv #	1
76) 1,4-Dichlorobenzene	11.675	146	4994	0.152	ppbv #	1

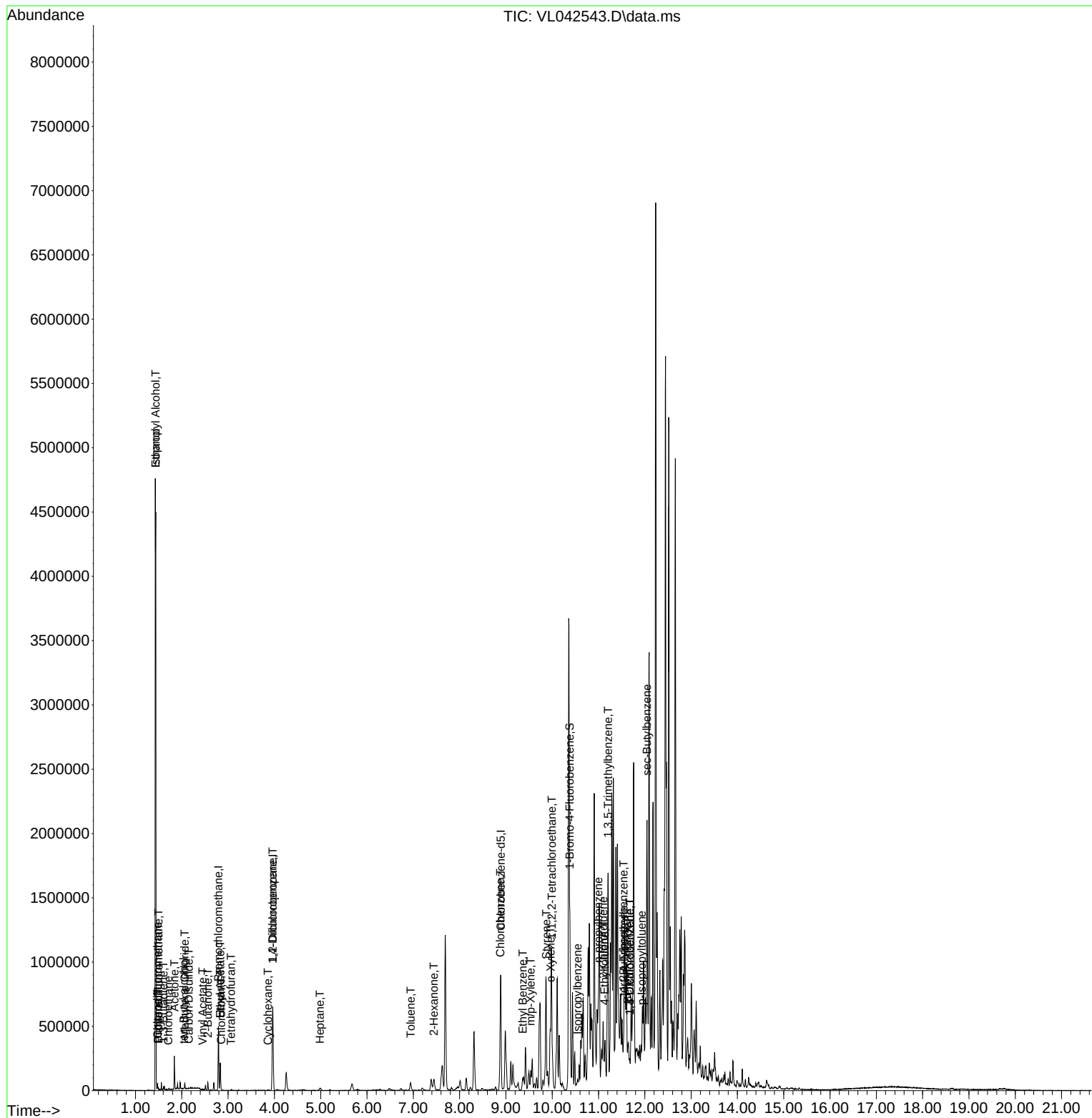
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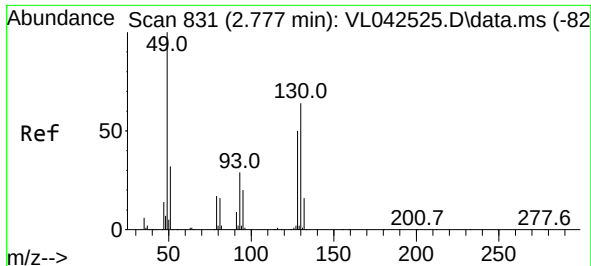
Instrument :
MSVOA_L
ClientSampleId :
SV1

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051425\
Data File : VL042543.D
Acq On : 14 May 2025 15:22
Operator : SY/MD
Sample : Q2037-01 4X
Misc : 400mL/MSVOA_L
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SV1

Quant Time: May 15 01:36:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue May 13 02:07:03 2025
Response via : Initial Calibration

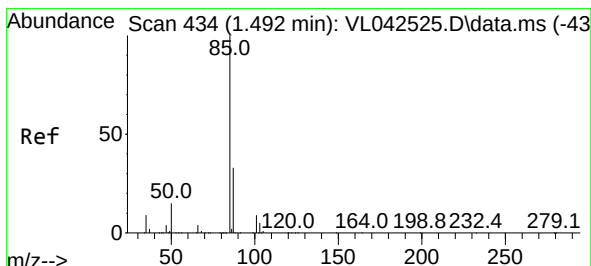
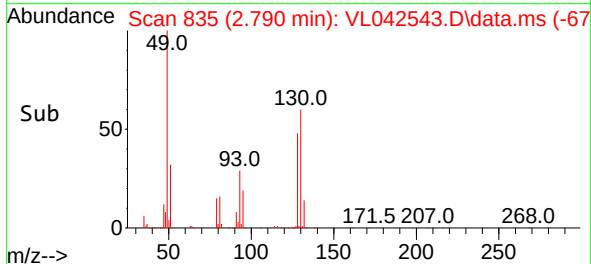
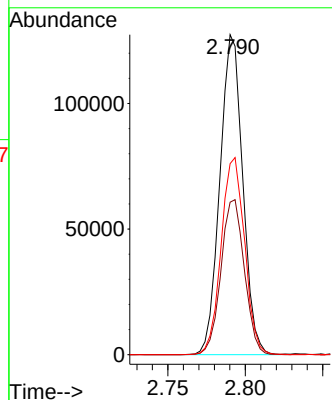
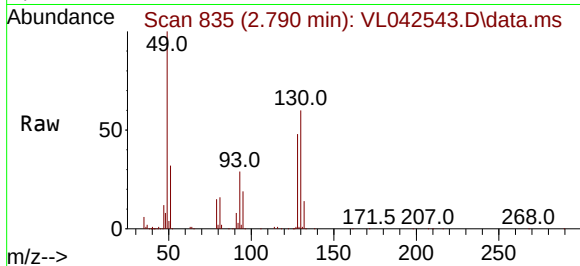




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.790 min Scan# 81
 Delta R.T. 0.013 min
 Lab File: VL042543.D
 Acq: 14 May 2025 15:22

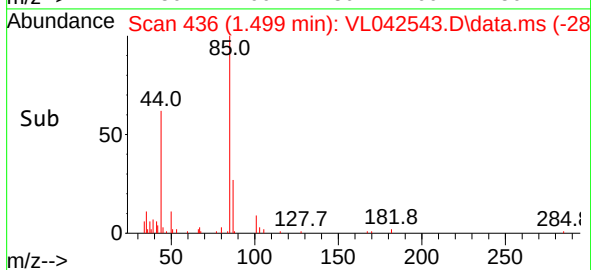
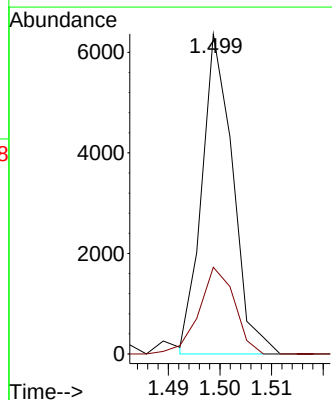
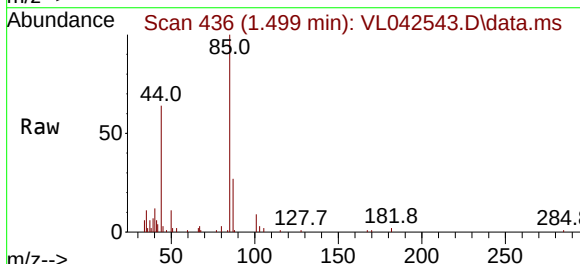
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 MSVOA_L
 ClientSampleId :
 SV1

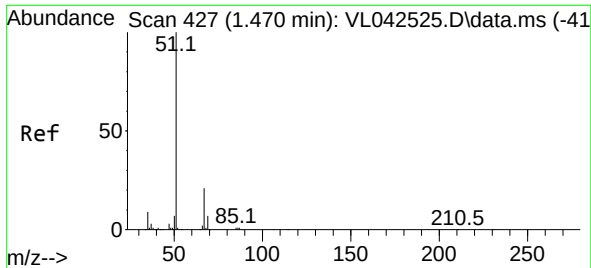
Tgt Ion: 49 Resp: 130699
 Ion Ratio Lower Upper
 49 100
 128 49.7 24.9 74.6
 130 63.3 32.5 97.5



#2
 Dichlorodifluoromethane
 Concen: 0.125 ppbv
 RT: 1.499 min Scan# 436
 Delta R.T. 0.006 min
 Lab File: VL042543.D
 Acq: 14 May 2025 15:22

Tgt Ion: 85 Resp: 2656
 Ion Ratio Lower Upper
 85 100
 87 27.1 26.8 40.2





#3

Chlorodifluoromethane

Concen: 0.878 ppbv

RT: 1.476 min Scan# 41

Delta R.T. 0.006 min

Lab File: VL042543.D

Acq: 14 May 2025 15:22

Instrument :

MSVOA_L

ClientSampleId :

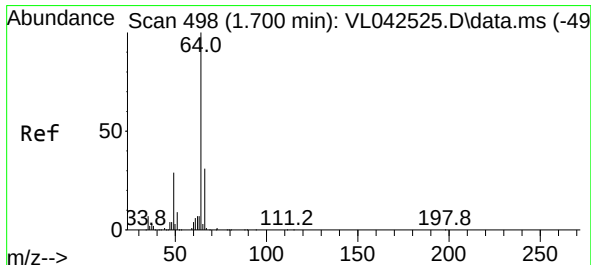
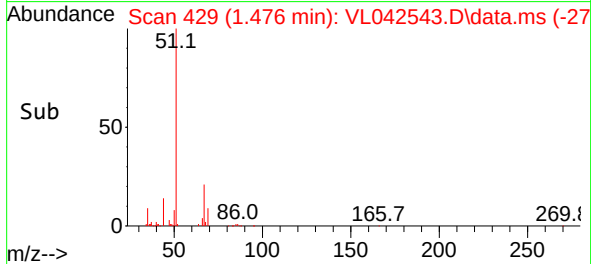
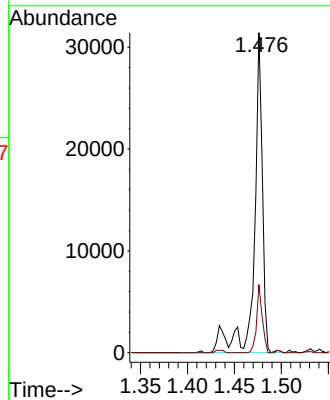
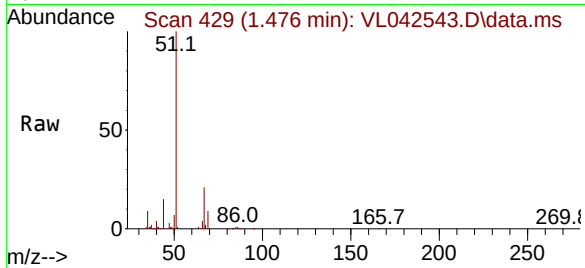
SV1

Tgt Ion: 51 Resp: 18980

Ion Ratio Lower Upper

51 100

67 15.1 17.4 26.0#



#7

Chloroethane

Concen: 0.062 ppbv

RT: 1.706 min Scan# 500

Delta R.T. 0.006 min

Lab File: VL042543.D

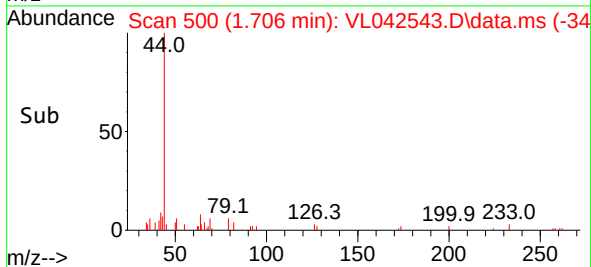
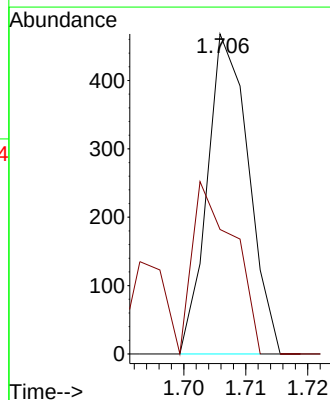
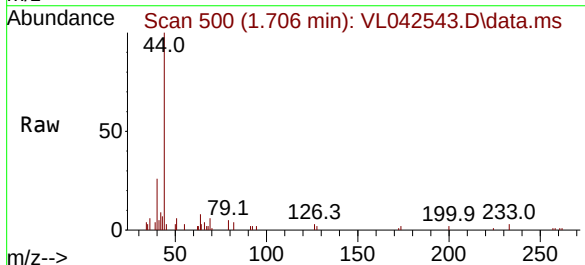
Acq: 14 May 2025 15:22

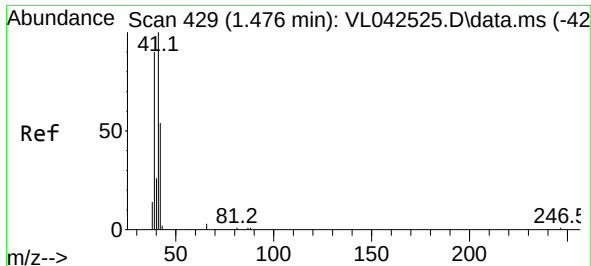
Tgt Ion: 64 Resp: 217

Ion Ratio Lower Upper

64 100

66 38.9 25.1 37.7#

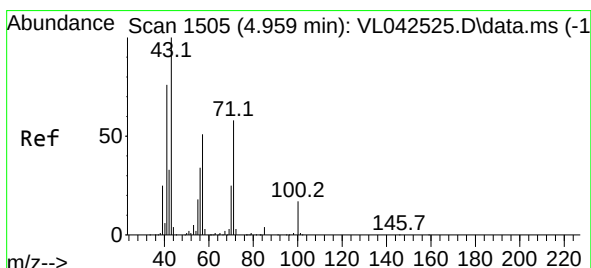
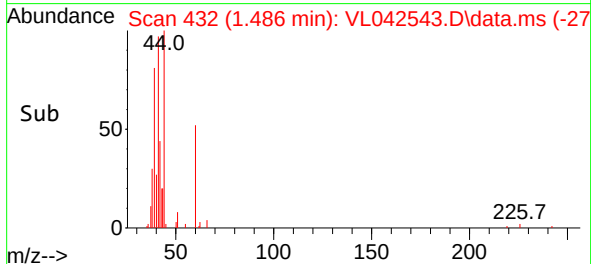
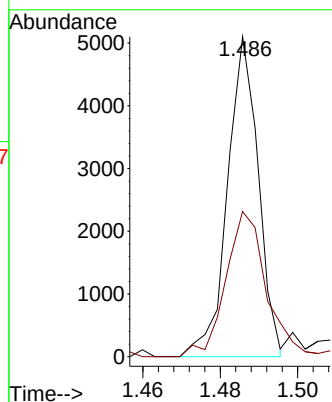
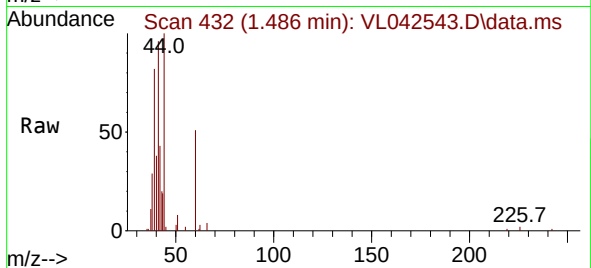




#9
 Propene
 Concen: 0.602 ppbv
 RT: 1.486 min Scan# 41
 Delta R.T. 0.009 min
 Lab File: VL042543.D
 Acq: 14 May 2025 15:22

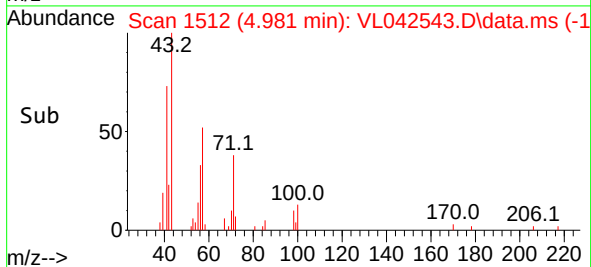
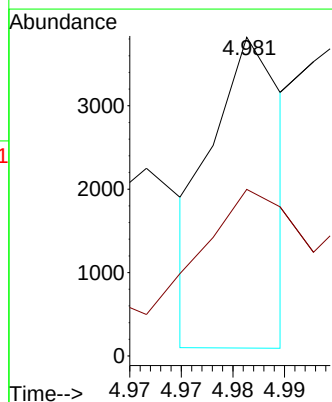
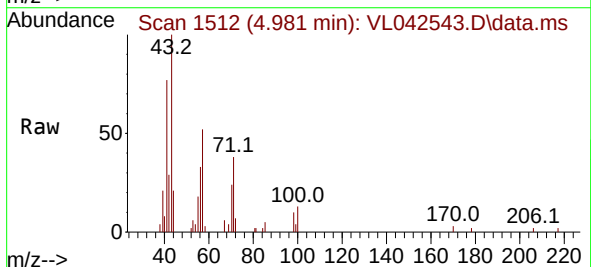
Instrument :
 MSVOA_1
 ClientSampleId :
 SV1

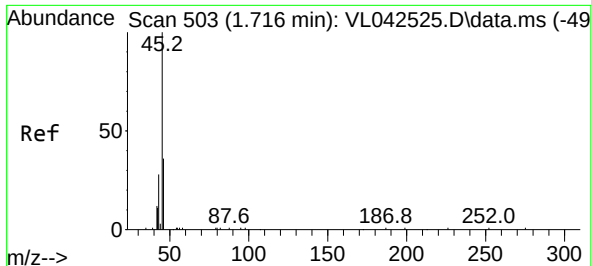
Tgt Ion: 41 Resp: 2823
 Ion Ratio Lower Upper
 41 100
 42 61.3 4.1 6.1#



#10
 Heptane
 Concen: 0.100 ppbv
 RT: 4.981 min Scan# 1512
 Delta R.T. 0.022 min
 Lab File: VL042543.D
 Acq: 14 May 2025 15:22

Tgt Ion: 43 Resp: 1792
 Ion Ratio Lower Upper
 43 100
 57 217.1 42.1 63.1#

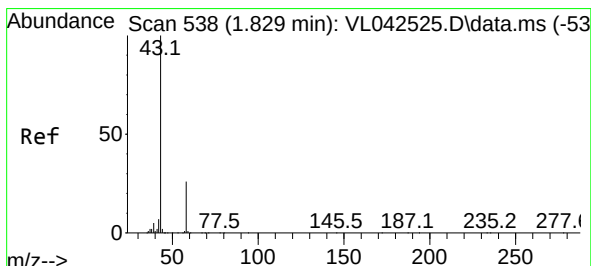
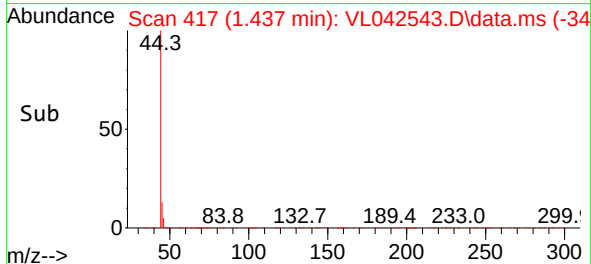
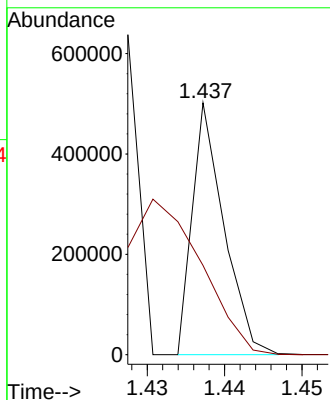
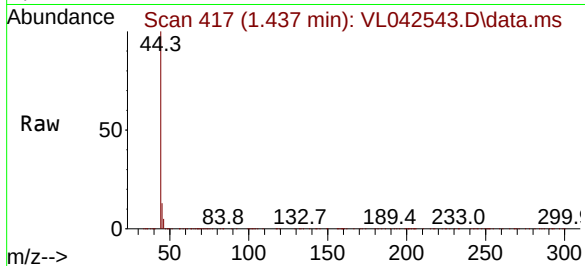




#13
Ethanol
Concen: 113.542 ppbv
RT: 1.437 min Scan# 41
Delta R.T. -0.279 min
Lab File: VL042543.D
Acq: 14 May 2025 15:22

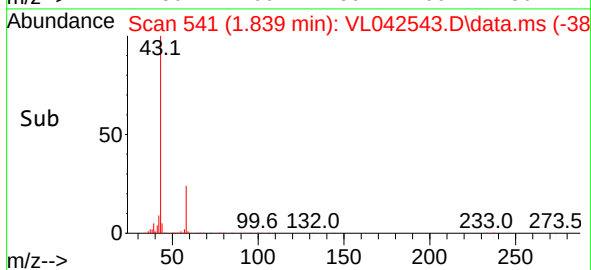
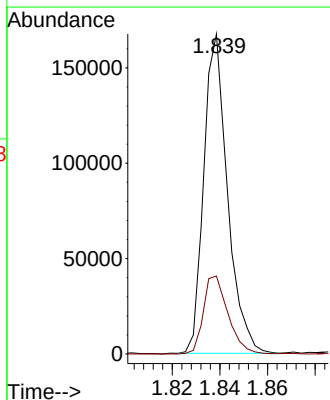
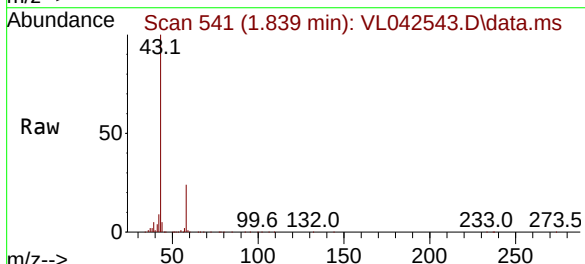
Instrument :
MSVOA_L
ClientSampleId :
SV1

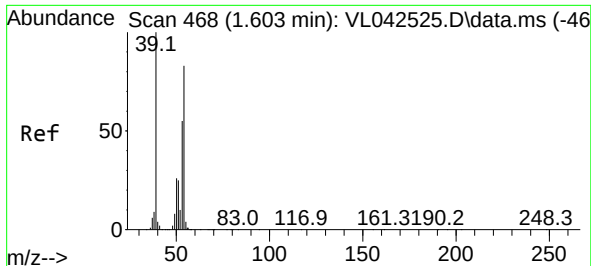
Tgt Ion: 45 Resp: 143247
Ion Ratio Lower Upper
45 100
46 0.0 14.8 59.4#



#15
Acetone
Concen: 5.509 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.009 min
Lab File: VL042543.D
Acq: 14 May 2025 15:22

Tgt Ion: 43 Resp: 116054
Ion Ratio Lower Upper
43 100
58 25.5 21.3 31.9

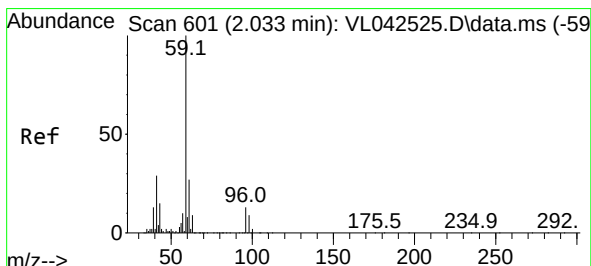
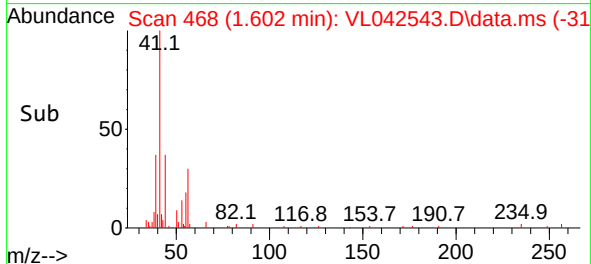
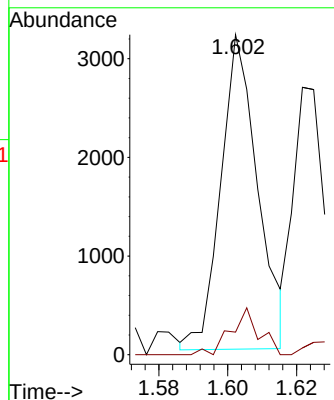
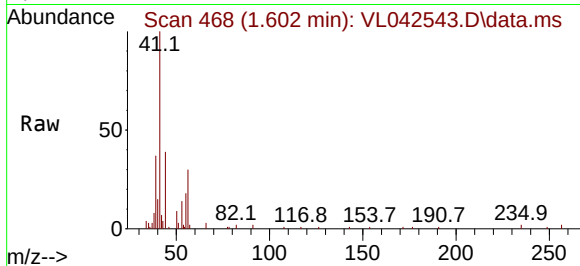




#16
1,3-Butadiene
Concen: 0.253 ppbv
RT: 1.602 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042543.D
Acq: 14 May 2025 15:22

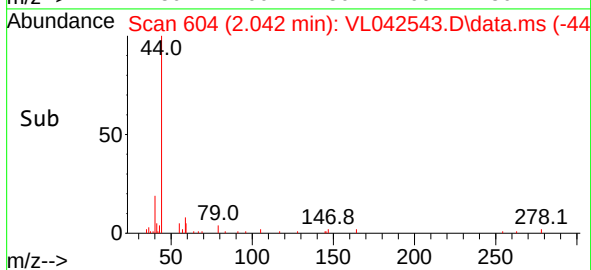
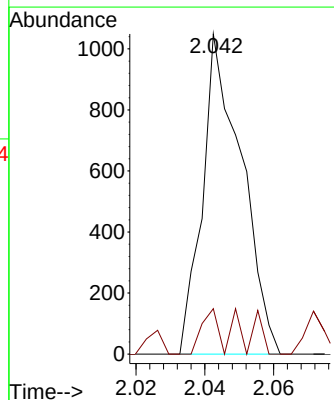
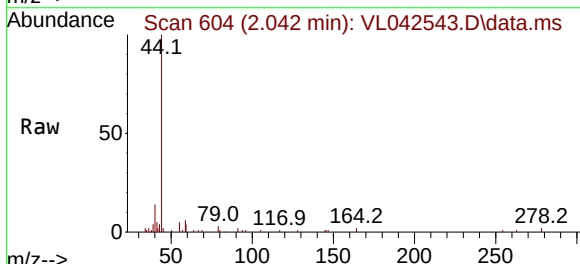
Instrument :
MSVOA_L
ClientSampleId :
SV1

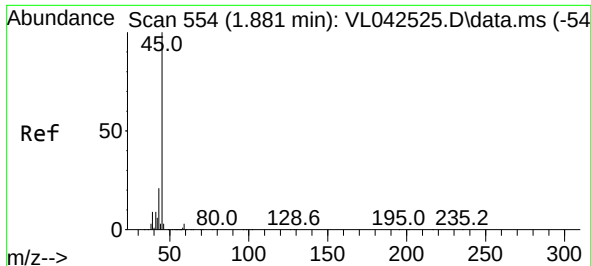
Tgt Ion: 39 Resp: 2375
Ion Ratio Lower Upper
39 100
54 18.1 57.8 86.6#



#17
tert-Butyl alcohol
Concen: 0.043 ppbv
RT: 2.042 min Scan# 604
Delta R.T. 0.009 min
Lab File: VL042543.D
Acq: 14 May 2025 15:22

Tgt Ion: 59 Resp: 825
Ion Ratio Lower Upper
59 100
57 230.5 8.2 12.4#





#19

Isopropyl Alcohol

Concen: 12.626 ppbv

RT: 1.437 min Scan# 41

Delta R.T. -0.444 min

Lab File: VL042543.D

Acq: 14 May 2025 15:22

Instrument :

MSVOA_L

ClientSampleId :

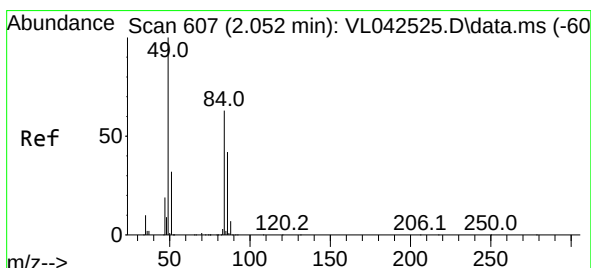
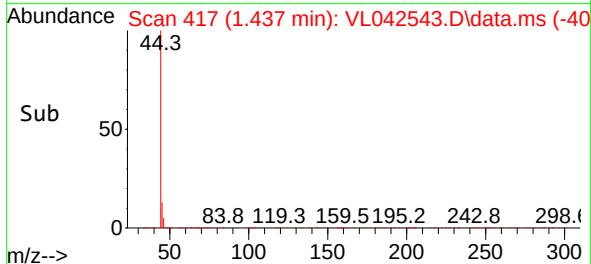
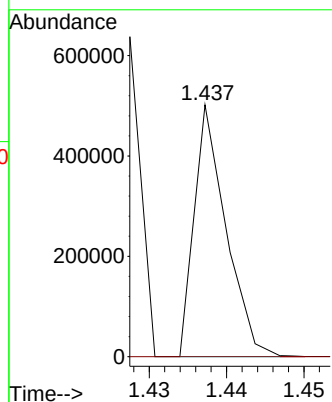
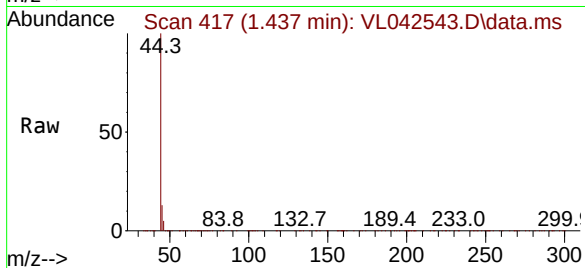
SV1

Tgt Ion: 45 Resp: 143247

Ion Ratio Lower Upper

45 100

58 0.0 1.5 2.3#



#20

Methylene Chloride

Concen: 0.861 ppbv

RT: 2.065 min Scan# 611

Delta R.T. 0.013 min

Lab File: VL042543.D

Acq: 14 May 2025 15:22

Tgt Ion: 84 Resp: 6263

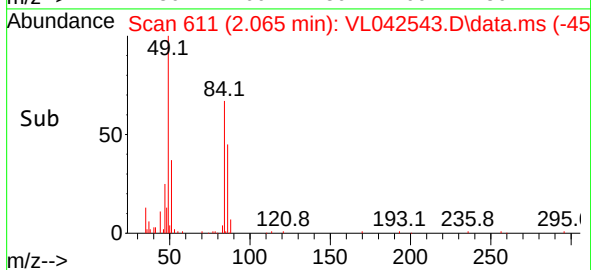
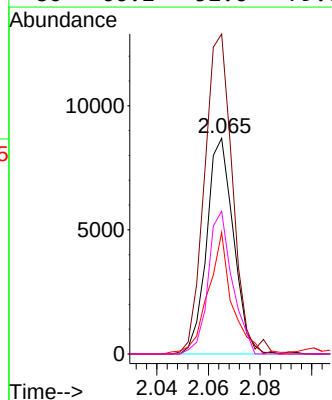
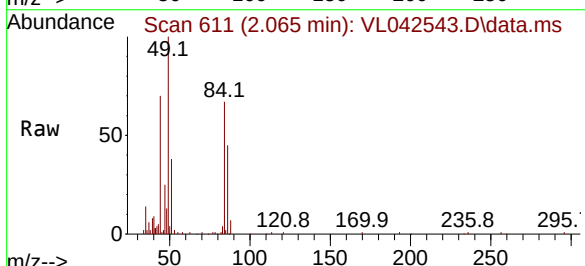
Ion Ratio Lower Upper

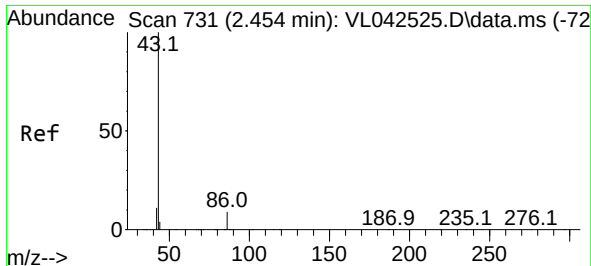
84 100

49 148.4 128.2 192.4

51 55.5 41.7 62.5

86 66.2 52.6 79.0

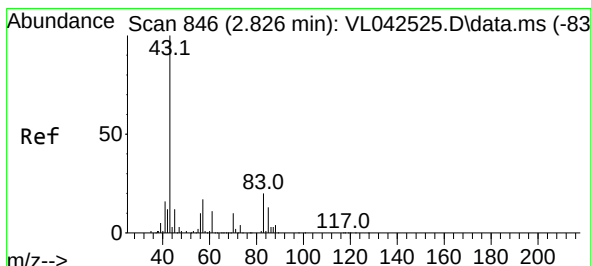
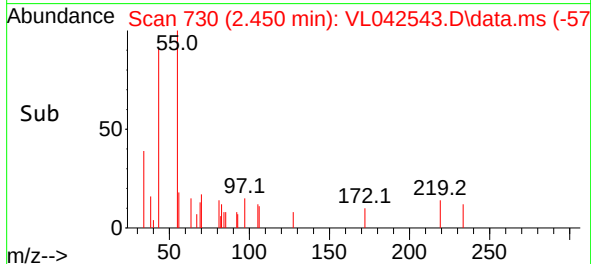
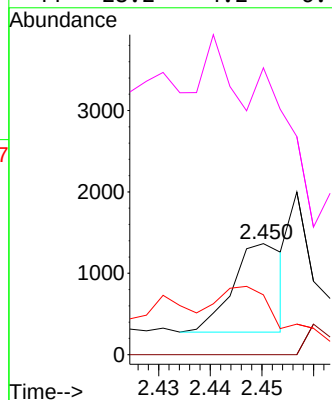
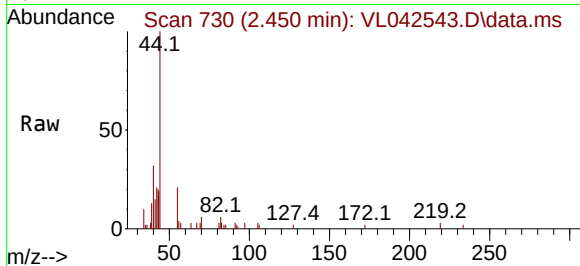




#23
 Vinyl Acetate
 Concen: 0.034 ppbv
 RT: 2.450 min Scan# 71
 Delta R.T. -0.003 min
 Lab File: VL042543.D
 Acq: 14 May 2025 15:22

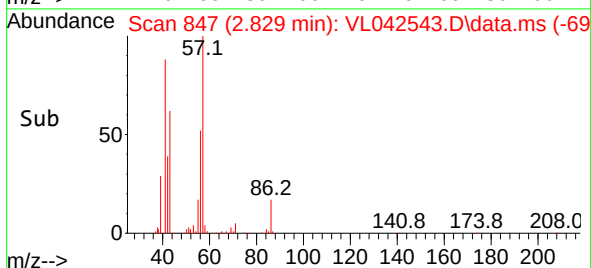
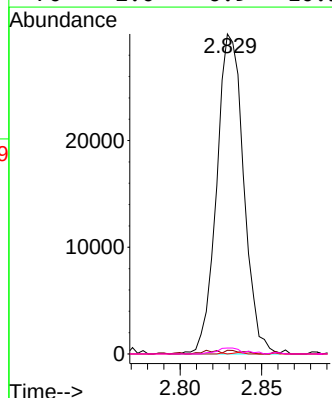
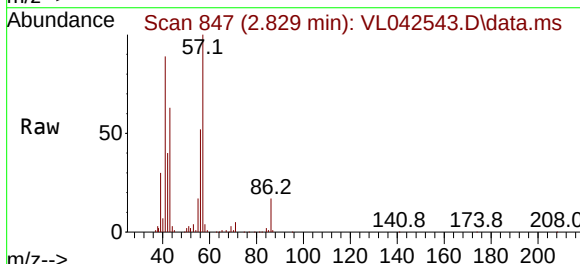
Instrument :
 MSVOA_1
 ClientSampleId :
 SV1

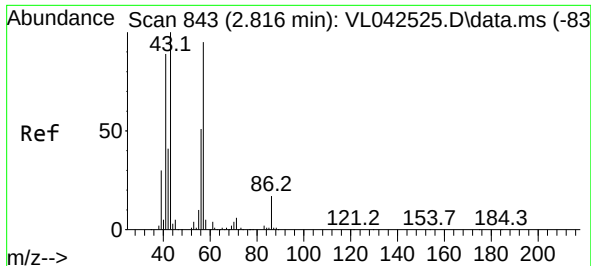
Tgt Ion: 43	Resp: 739
Ion Ratio	Lower Upper
43 100	
86 0.0	6.8 10.2#
42 38.3	8.8 13.2#
44 28.2	4.2 6.4#



#25
 Ethyl Acetate
 Concen: 0.941 ppbv
 RT: 2.829 min Scan# 847
 Delta R.T. 0.003 min
 Lab File: VL042543.D
 Acq: 14 May 2025 15:22

Tgt Ion: 43	Resp: 34510
Ion Ratio	Lower Upper
43 100	
45 1.7	7.9 11.9#
61 0.2	7.1 10.7#
70 2.0	6.9 10.3#

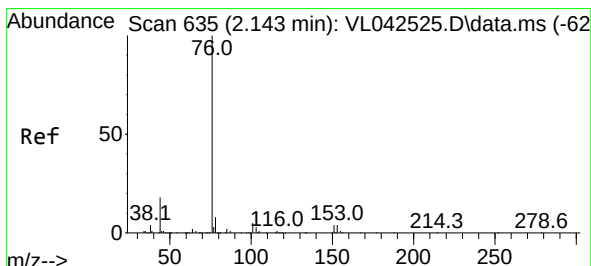
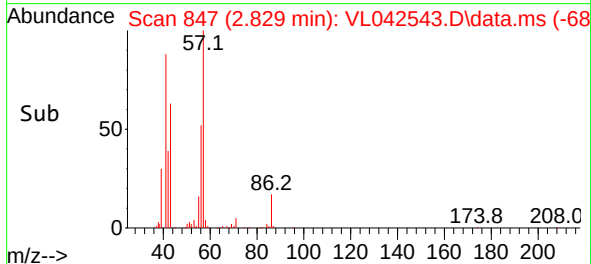
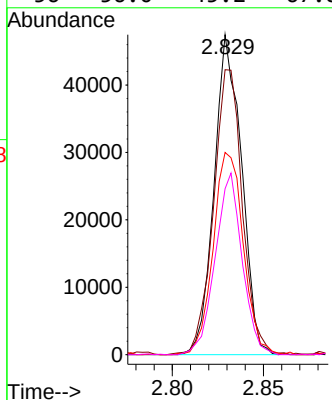
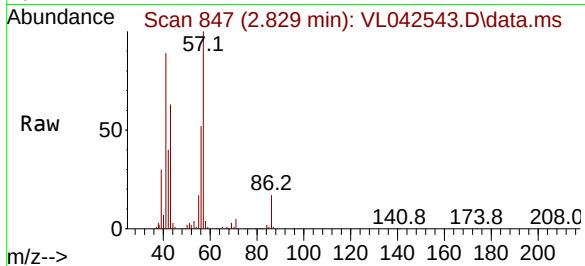




#26
Hexane
Concen: 3.295 ppbv
RT: 2.829 min Scan# 843
Delta R.T. 0.013 min
Lab File: VL042543.D
Acq: 14 May 2025 15:22

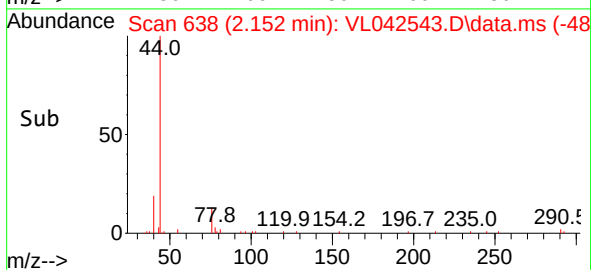
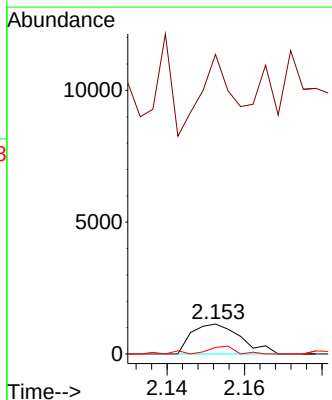
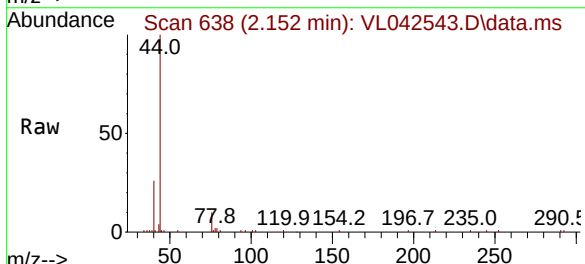
Instrument :
MSVOA_L
ClientSampleId :
SV1

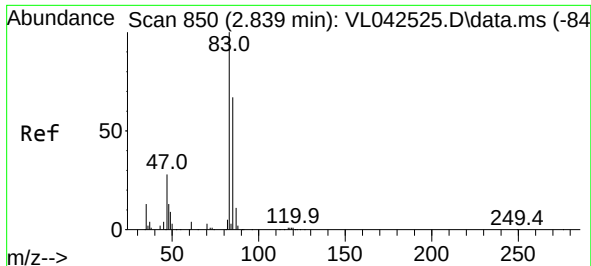
Tgt Ion: 57 Resp: 49602
Ion Ratio Lower Upper
57 100
41 93.9 76.1 114.1
43 70.1 188.9 283.3#
56 56.0 45.2 67.8



#27
Carbon Disulfide
Concen: 0.051 ppbv
RT: 2.152 min Scan# 638
Delta R.T. 0.009 min
Lab File: VL042543.D
Acq: 14 May 2025 15:22

Tgt Ion: 76 Resp: 998
Ion Ratio Lower Upper
76 100
44 1380.8 17.1 25.7#
78 17.0 8.6 12.8#





#29

Chloroform

Concen: 0.048 ppbv

RT: 2.852 min Scan# 850

Delta R.T. 0.013 min

Lab File: VL042543.D

Acq: 14 May 2025 15:22

Instrument :

MSVOA_L

ClientSampleId :

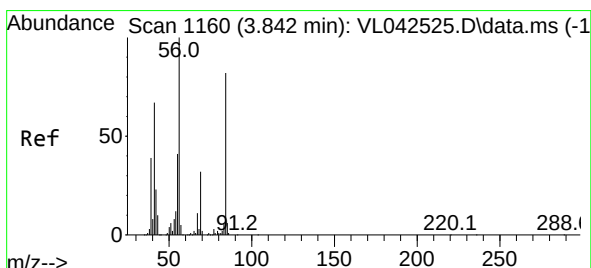
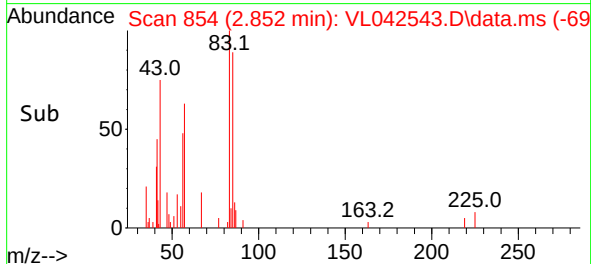
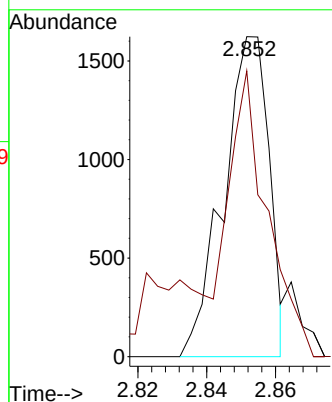
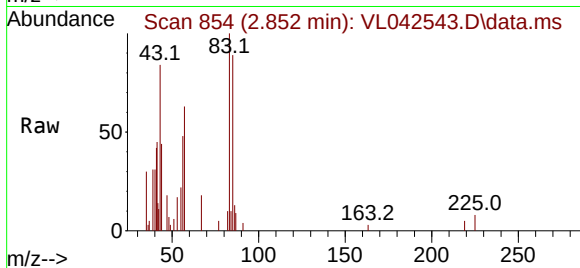
SV1

Tgt Ion: 83 Resp: 1501

Ion Ratio Lower Upper

83 100

85 65.3 53.5 80.3



#30

Cyclohexane

Concen: 0.039 ppbv

RT: 3.861 min Scan# 1166

Delta R.T. 0.019 min

Lab File: VL042543.D

Acq: 14 May 2025 15:22

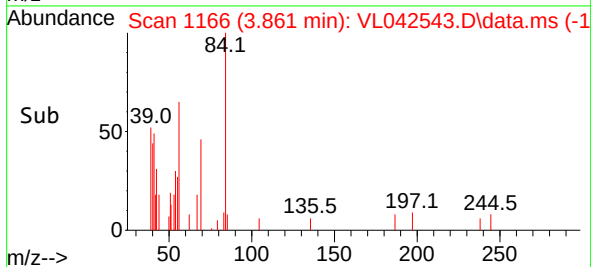
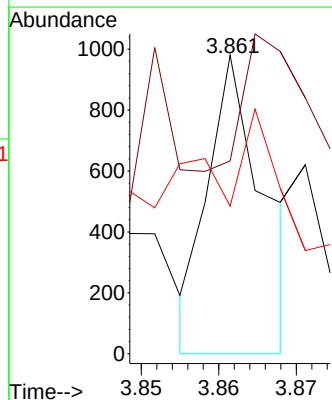
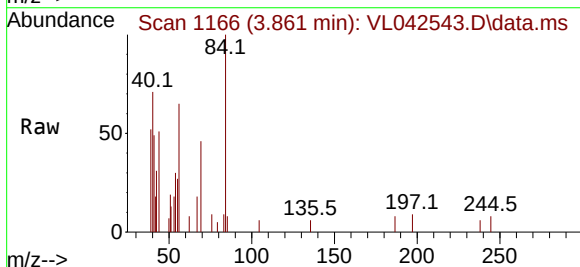
Tgt Ion: 84 Resp: 487

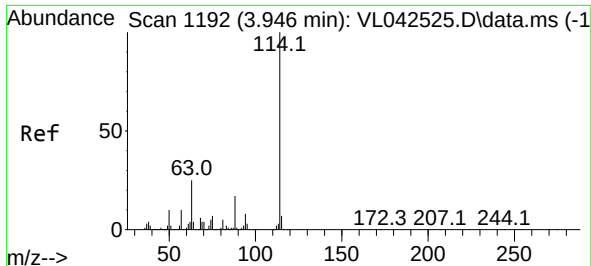
Ion Ratio Lower Upper

84 100

56 322.6 97.1 145.7#

41 228.7 66.6 99.8#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.965 min Scan# 1198

Delta R.T. 0.019 min

Lab File: VL042543.D

Acq: 14 May 2025 15:22

Instrument :

MSVOA_L

ClientSampleId :

SV1

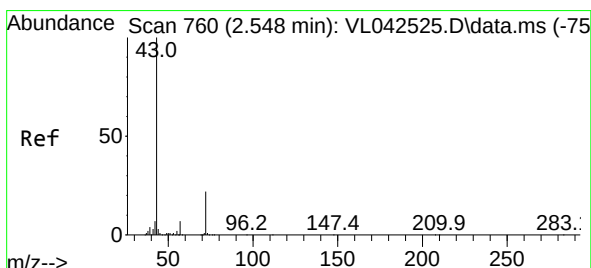
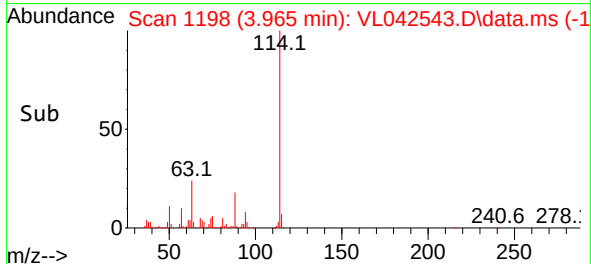
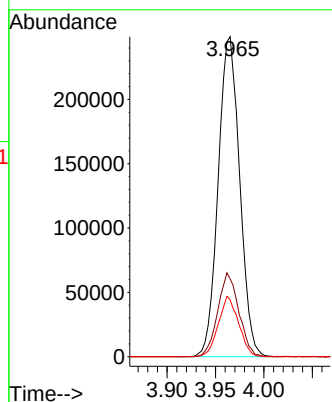
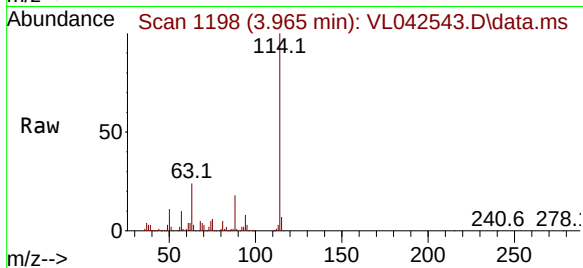
Tgt Ion:114 Resp: 384048

Ion Ratio Lower Upper

114 100

63 25.7 20.4 30.6

88 17.7 14.5 21.7



#34

2-Butanone

Concen: 1.477 ppbv

RT: 2.560 min Scan# 764

Delta R.T. 0.013 min

Lab File: VL042543.D

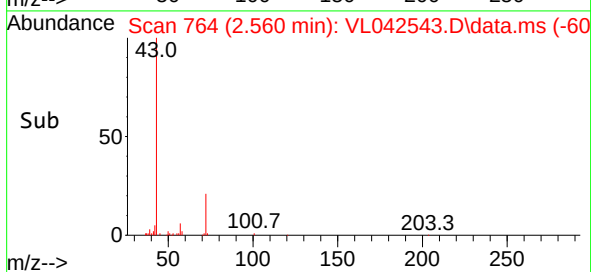
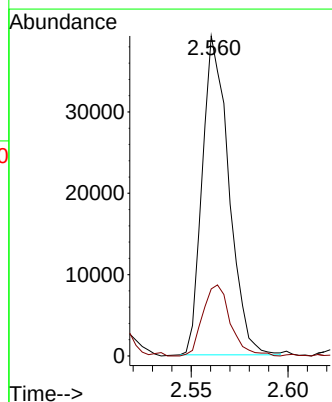
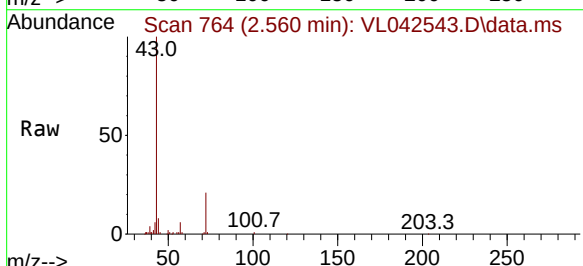
Acq: 14 May 2025 15:22

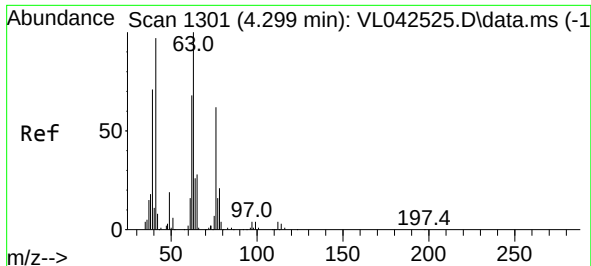
Tgt Ion: 43 Resp: 37395

Ion Ratio Lower Upper

43 100

72 23.6 18.7 28.1





#39

1,2-Dichloropropane

Concen: 7.776 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. -0.337 min

Lab File: VL042543.D

Acq: 14 May 2025 15:22

Instrument :

MSVOA_L

ClientSampleId :

SV1

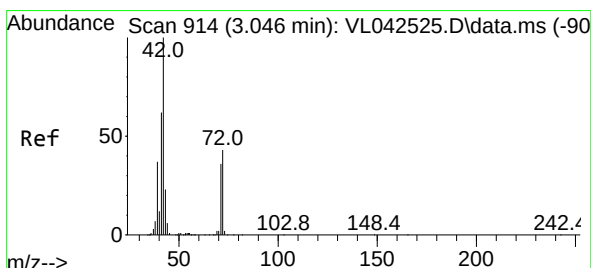
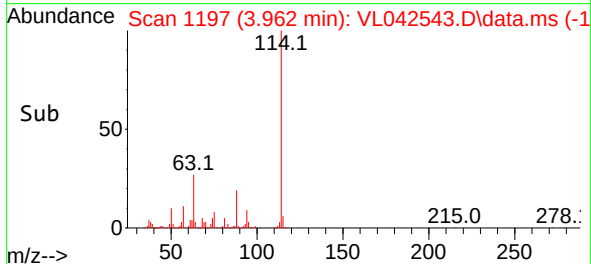
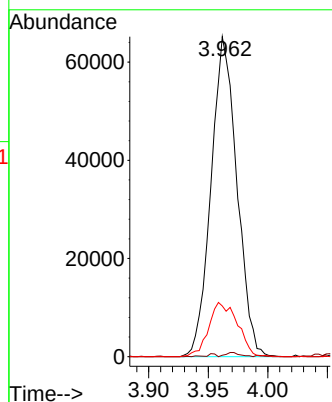
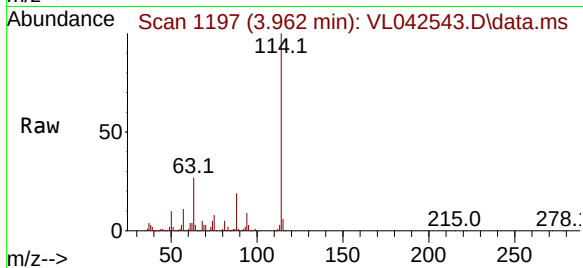
Tgt Ion: 63 Resp: 98581

Ion Ratio Lower Upper

63 100

41 0.4 77.5 116.3#

62 15.8 54.6 82.0#



#41

Tetrahydrofuran

Concen: 0.084 ppbv

RT: 3.062 min Scan# 919

Delta R.T. 0.016 min

Lab File: VL042543.D

Acq: 14 May 2025 15:22

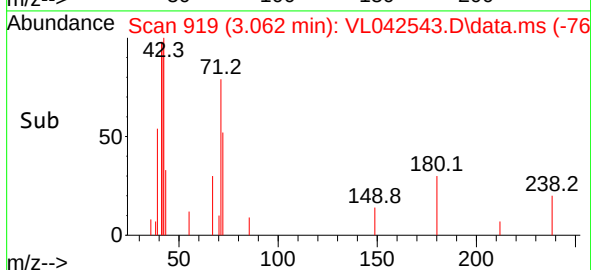
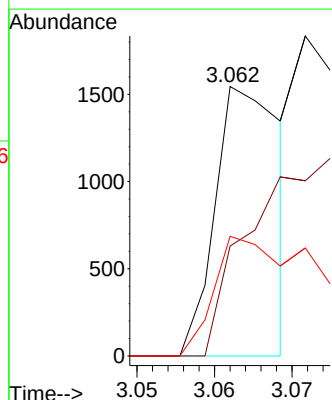
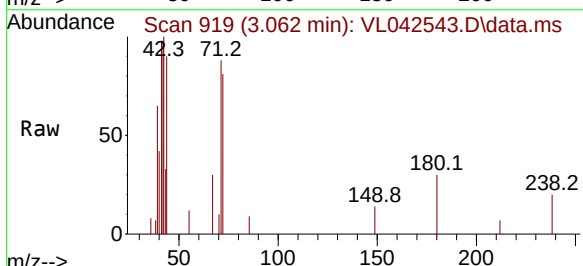
Tgt Ion: 42 Resp: 924

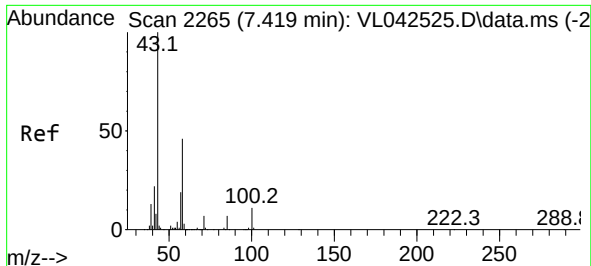
Ion Ratio Lower Upper

42 100

72 0.0 32.7 49.1#

71 0.0 30.4 45.6#

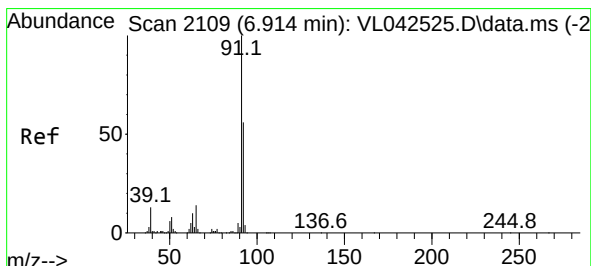
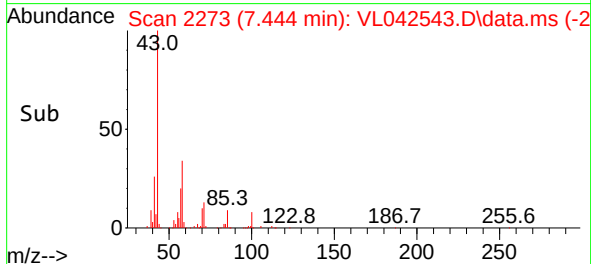
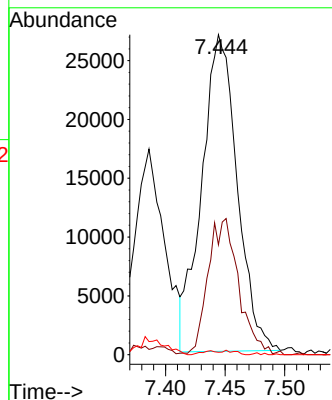
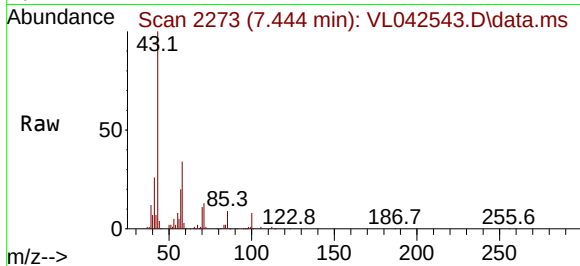




#51
2-Hexanone
Concen: 2.525 ppbv
RT: 7.444 min Scan# 2118
Delta R.T. 0.026 min
Lab File: VL042543.D
Acq: 14 May 2025 15:22

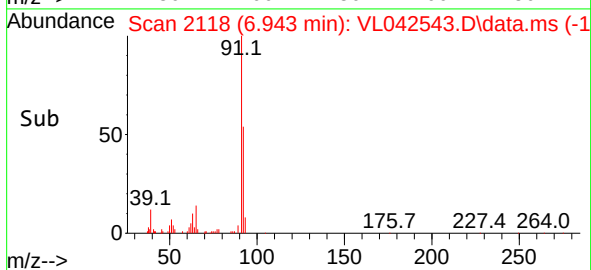
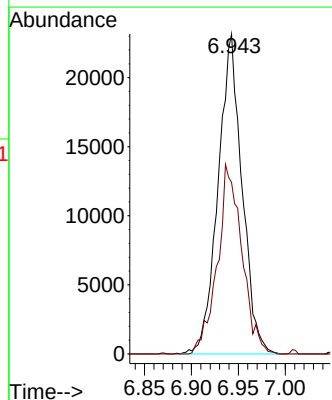
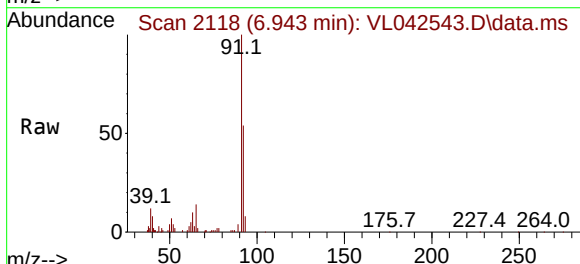
Instrument :
MSVOA_L
ClientSampleId :
SV1

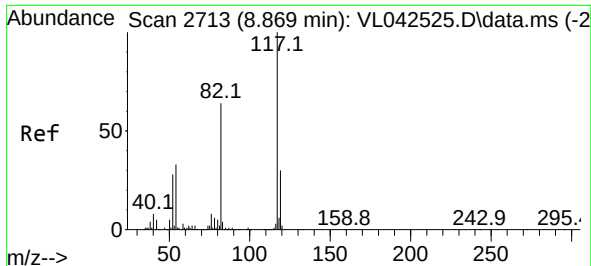
Tgt Ion: 43 Resp: 55848
Ion Ratio Lower Upper
43 100
58 37.2 37.5 56.3#
98 1.2 0.9 1.3



#53
Toluene
Concen: 1.229 ppbv
RT: 6.943 min Scan# 2118
Delta R.T. 0.029 min
Lab File: VL042543.D
Acq: 14 May 2025 15:22

Tgt Ion: 91 Resp: 41032
Ion Ratio Lower Upper
91 100
92 60.5 47.8 71.6

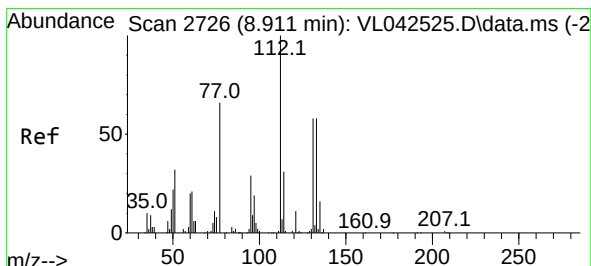
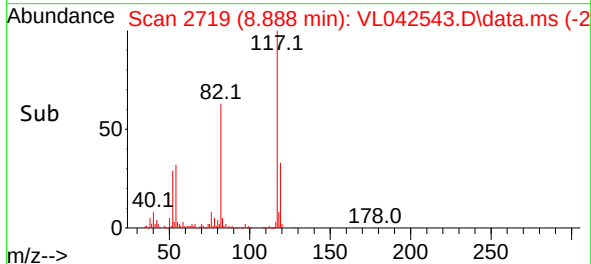
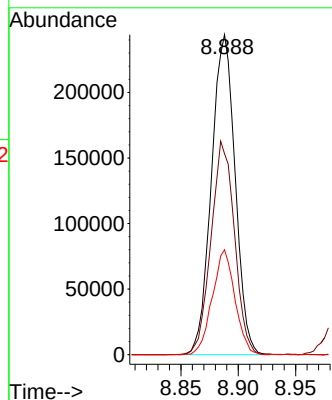
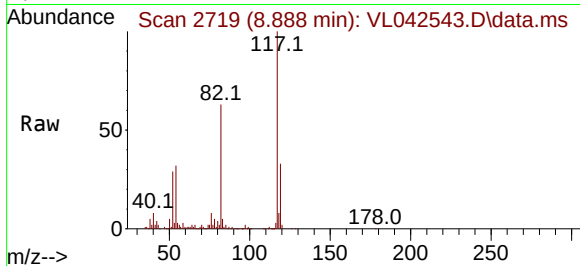




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2719
Delta R.T. 0.019 min
Lab File: VL042543.D
Acq: 14 May 2025 15:22

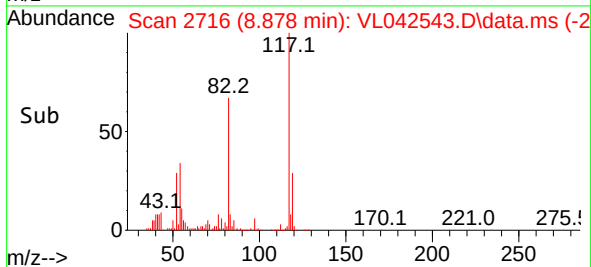
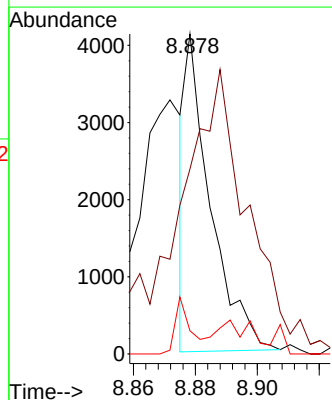
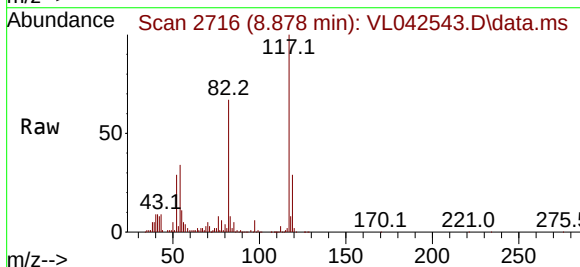
Instrument :
MSVOA_1
ClientSampleId :
SV1

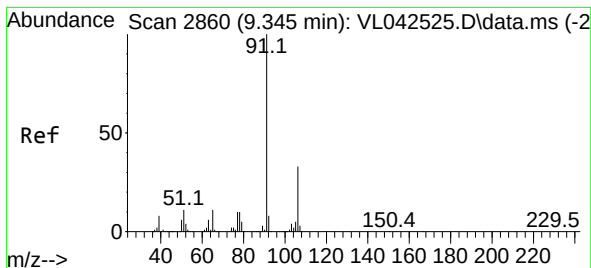
Tgt Ion:117 Resp: 350637
Ion Ratio Lower Upper
117 100
82 66.1 55.0 82.4
119 31.4 25.8 38.6



#57
Chlorobenzene
Concen: 0.065 ppbv
RT: 8.878 min Scan# 2716
Delta R.T. -0.033 min
Lab File: VL042543.D
Acq: 14 May 2025 15:22

Tgt Ion:112 Resp: 2304
Ion Ratio Lower Upper
112 100
77 45.3 53.6 80.4#
114 0.0 28.2 34.4#





#58

Ethyl Benzene

Concen: 0.807 ppbv

RT: 9.361 min Scan# 21

Delta R.T. 0.016 min

Lab File: VL042543.D

Acq: 14 May 2025 15:22

Instrument :

MSVOA_L

ClientSampleId :

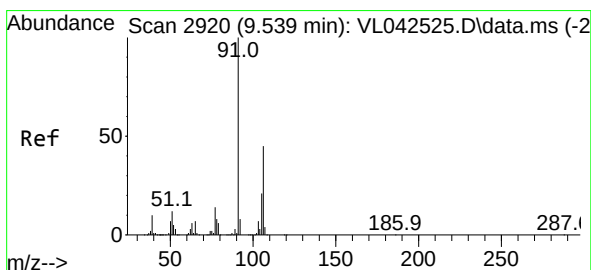
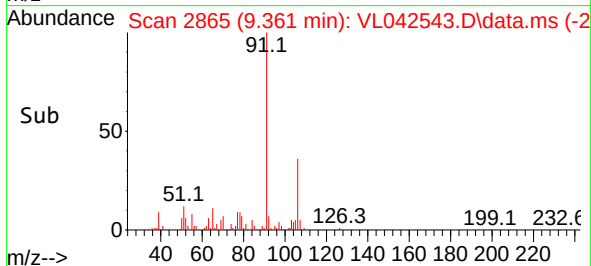
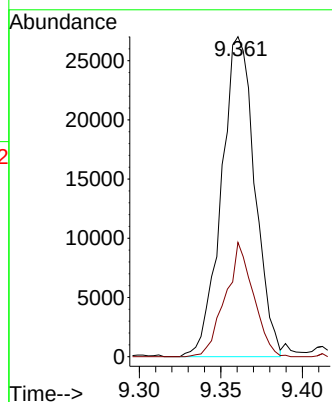
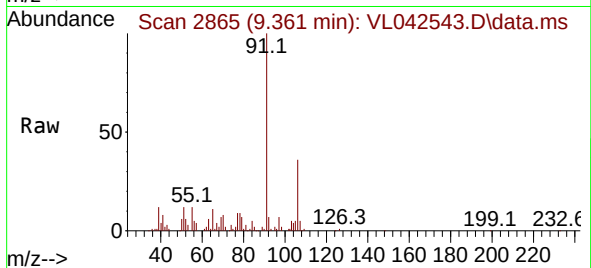
SV1

Tgt Ion: 91 Resp: 38568

Ion Ratio Lower Upper

91 100

106 35.7 26.0 39.0



#59

m/p-Xylene

Concen: 2.058 ppbv

RT: 9.535 min Scan# 2919

Delta R.T. -0.003 min

Lab File: VL042543.D

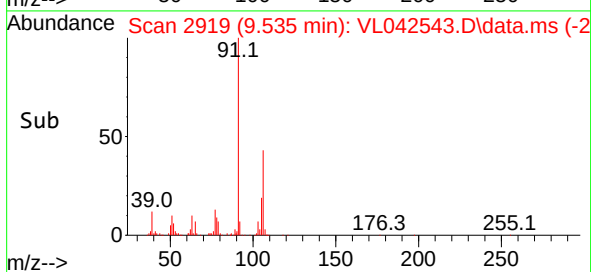
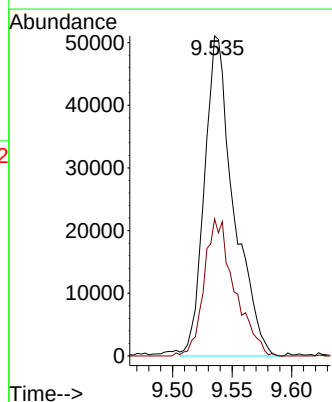
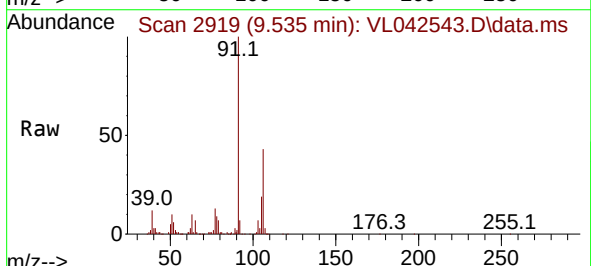
Acq: 14 May 2025 15:22

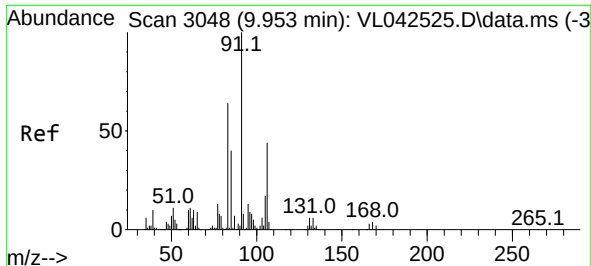
Tgt Ion: 91 Resp: 87346

Ion Ratio Lower Upper

91 100

106 44.5 0.0 0.0#

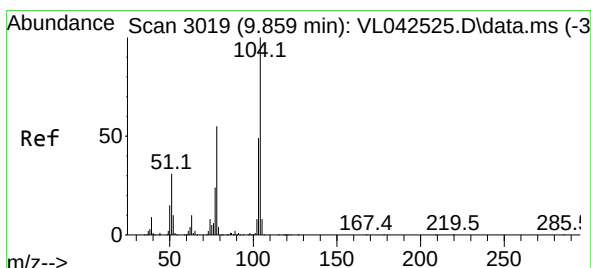
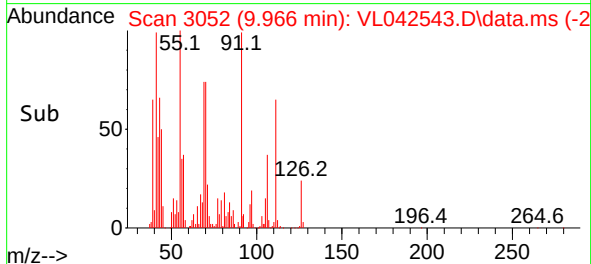
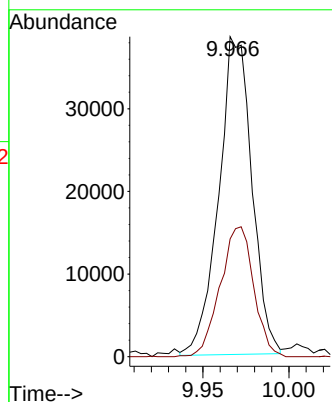
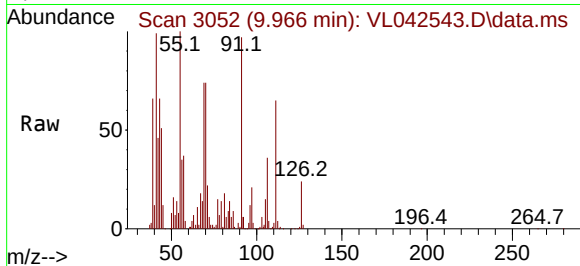




#60
o-Xylene
Concen: 1.243 ppbv
RT: 9.966 min Scan# 3048
Delta R.T. 0.013 min
Lab File: VL042543.D
Acq: 14 May 2025 15:22

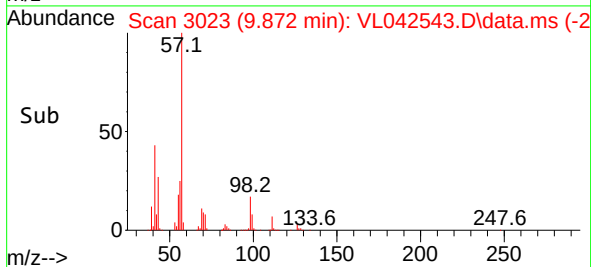
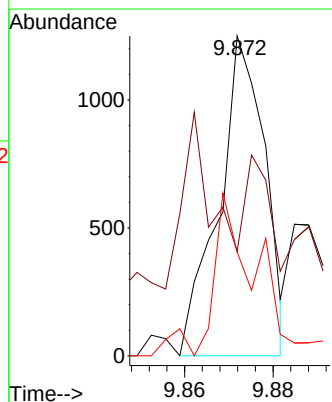
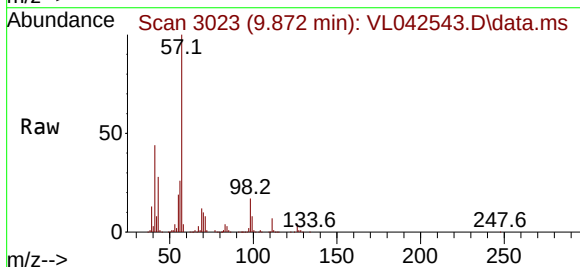
Instrument :
MSVOA_L
ClientSampleId :
SV1

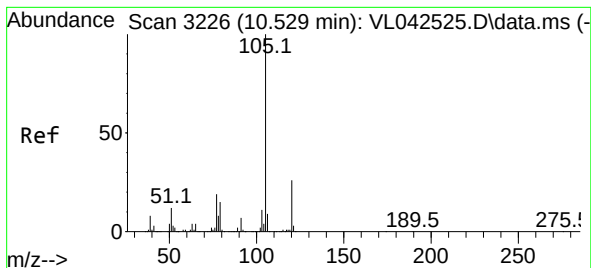
Tgt Ion: 91 Resp: 51527
Ion Ratio Lower Upper
91 100
106 41.3 21.6 64.6



#61
Styrene
Concen: 0.059 ppbv
RT: 9.872 min Scan# 3023
Delta R.T. 0.013 min
Lab File: VL042543.D
Acq: 14 May 2025 15:22

Tgt Ion: 104 Resp: 905
Ion Ratio Lower Upper
104 100
78 0.0 44.7 67.1#
103 48.8 38.6 58.0





#62

Isopropylbenzene

Concen: 0.381 ppbv

RT: 10.545 min Scan# 31

Delta R.T. 0.016 min

Lab File: VL042543.D

Acq: 14 May 2025 15:22

Instrument :

MSVOA_L

ClientSampleId :

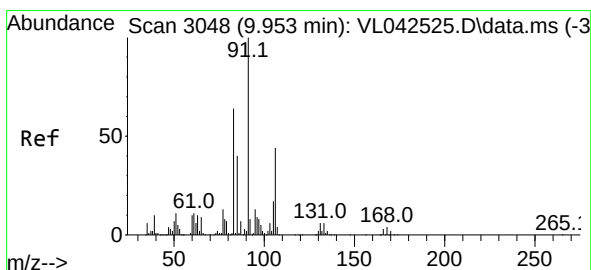
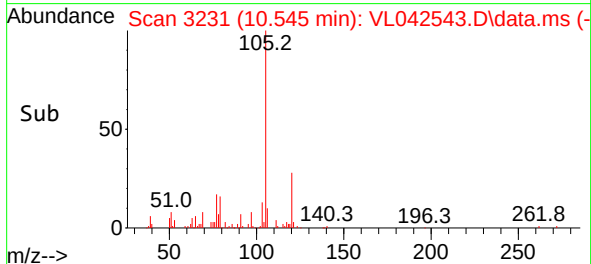
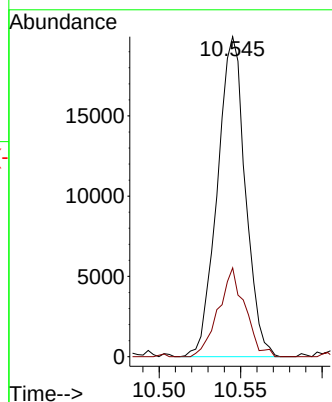
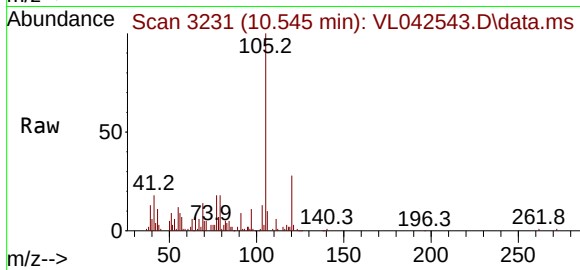
SV1

Tgt Ion:105 Resp: 23812

Ion Ratio Lower Upper

105 100

120 26.4 20.1 30.1



#63

1,1,2,2-Tetrachloroethane

Concen: 0.153 ppbv

RT: 9.988 min Scan# 3059

Delta R.T. 0.035 min

Lab File: VL042543.D

Acq: 14 May 2025 15:22

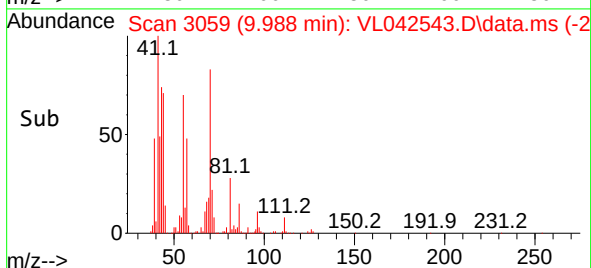
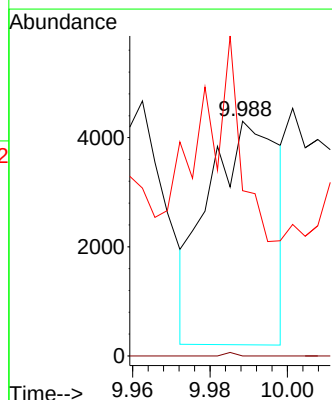
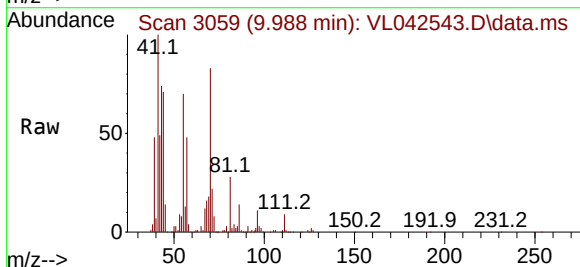
Tgt Ion: 83 Resp: 5132

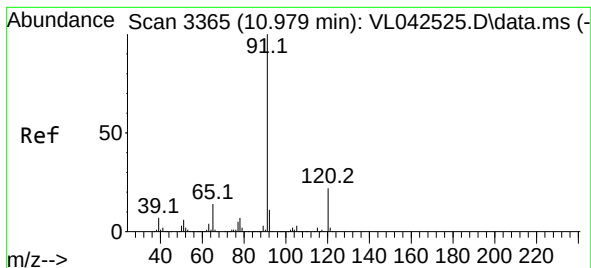
Ion Ratio Lower Upper

83 100

131 0.0 4.9 14.7#

85 205.9 32.3 96.8#





#64

n-propylbenzene

Concen: 0.900 ppbv

RT: 10.992 min Scan# 31

Delta R.T. 0.013 min

Lab File: VL042543.D

Acq: 14 May 2025 15:22

Instrument :

MSVOA_1

ClientSampleId :

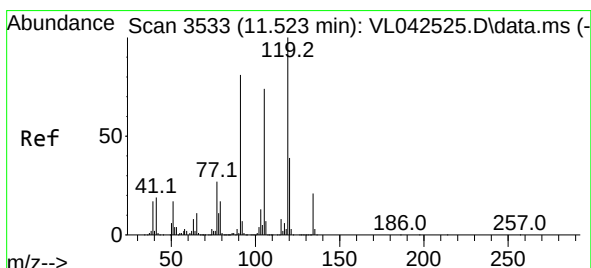
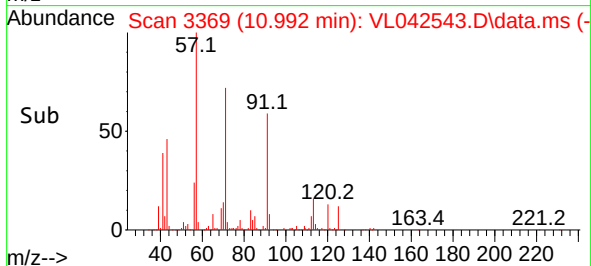
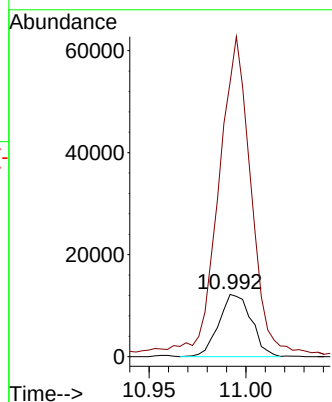
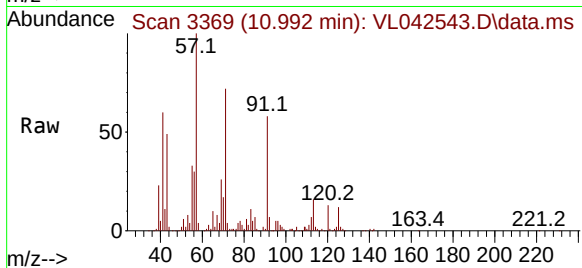
SV1

Tgt Ion:120 Resp: 14270

Ion Ratio Lower Upper

120 100

91 499.0 377.7 566.5



#65

tert-Butylbenzene

Concen: 0.200 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. 0.016 min

Lab File: VL042543.D

Acq: 14 May 2025 15:22

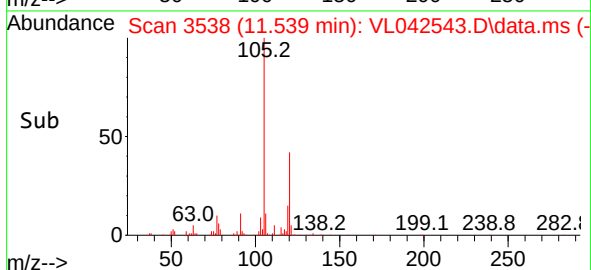
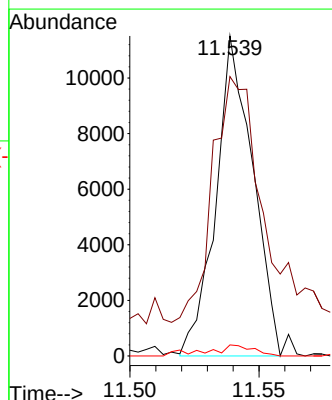
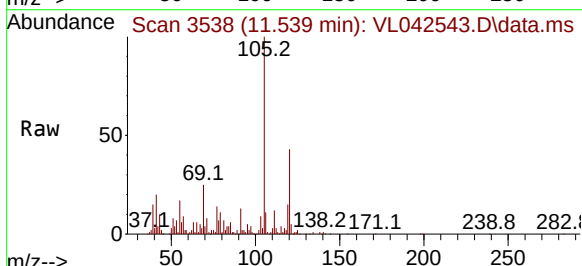
Tgt Ion:119 Resp: 11461

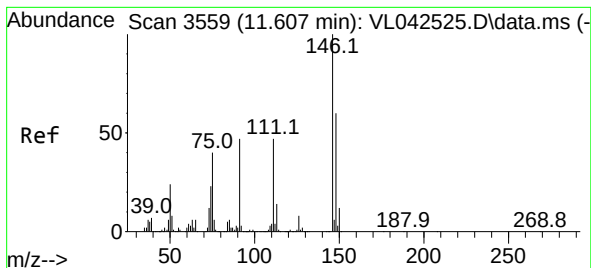
Ion Ratio Lower Upper

119 100

91 145.8 66.6 99.8#

134 4.3 16.3 24.5#





#66

Benzyl Chloride

Concen: 0.055 ppbv

RT: 11.629 min Scan# 3559

Delta R.T. 0.022 min

Lab File: VL042543.D

Acq: 14 May 2025 15:22

Instrument :

MSVOA_L

ClientSampleId :

SV1

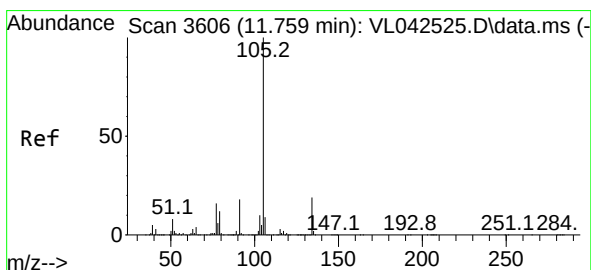
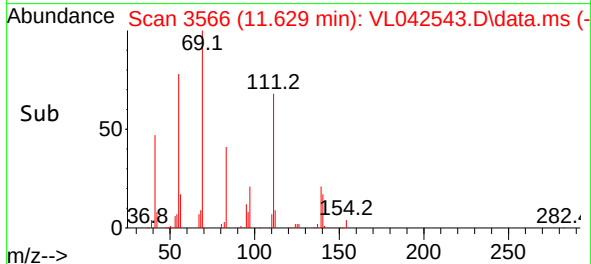
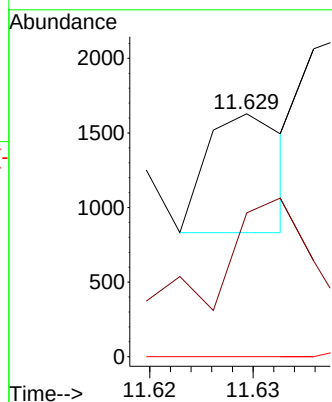
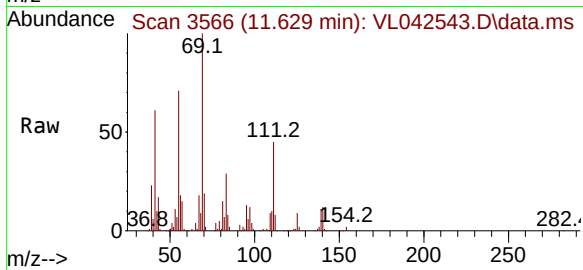
Tgt Ion: 91 Resp: 417

Ion Ratio Lower Upper

91 100

126 392.1 13.7 20.5#

128 0.0 4.2 6.2#



#67

sec-Butylbenzene

Concen: 0.041 ppbv

RT: 12.047 min Scan# 3695

Delta R.T. 0.288 min

Lab File: VL042543.D

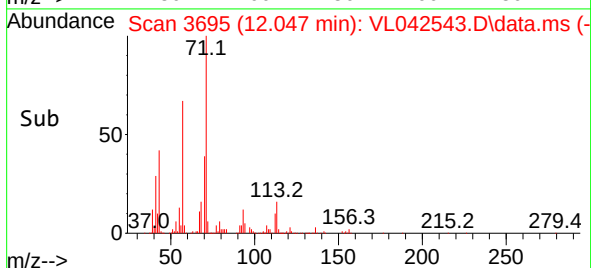
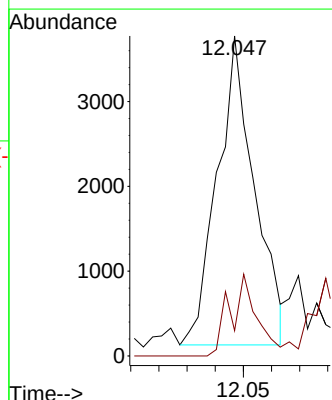
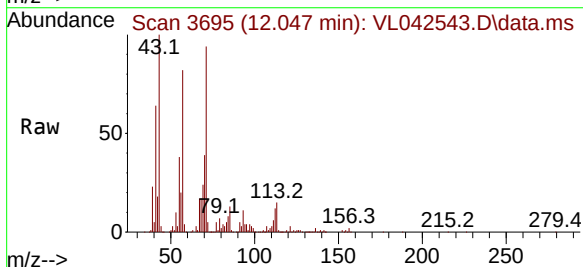
Acq: 14 May 2025 15:22

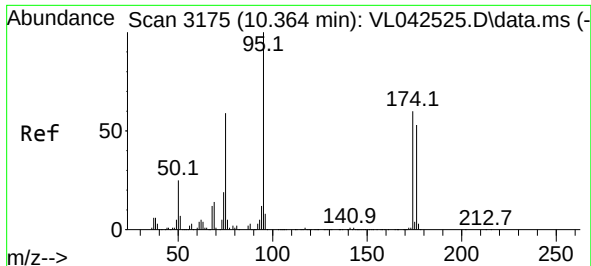
Tgt Ion: 105 Resp: 3334

Ion Ratio Lower Upper

105 100

134 20.6 14.9 22.3

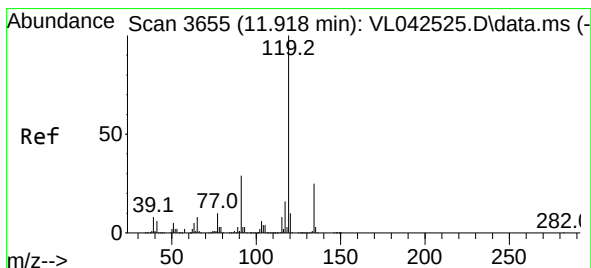
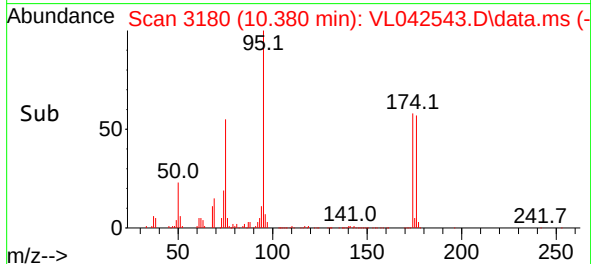
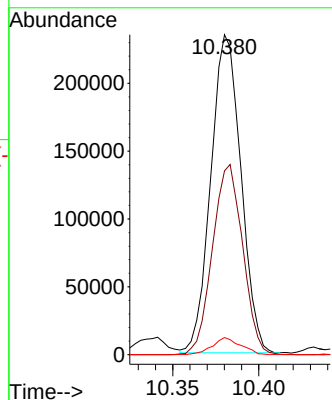
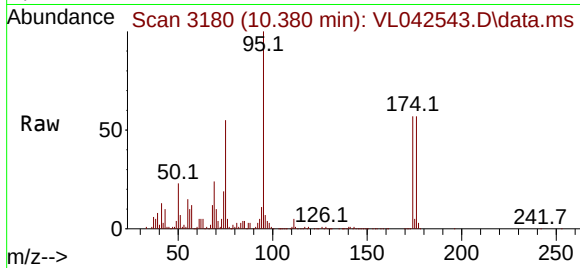




#68
1-Bromo-4-Fluorobenzene
Concen: 9.355 ppbv
RT: 10.380 min Scan# 3175
Delta R.T. 0.016 min
Lab File: VL042543.D
Acq: 14 May 2025 15:22

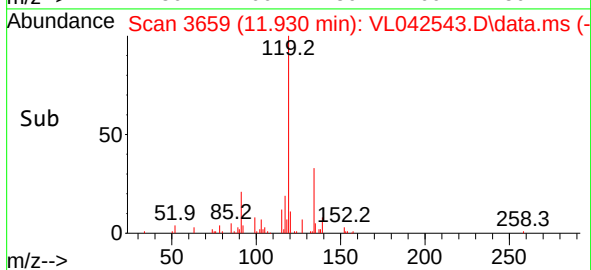
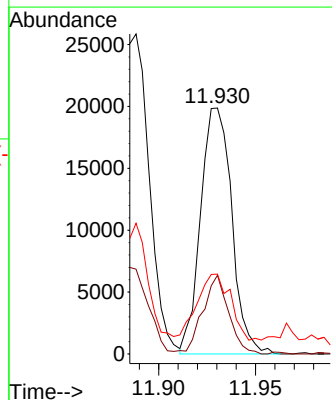
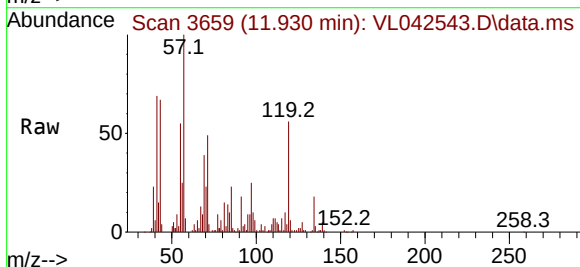
Instrument :
MSVOA_L
ClientSampleId :
SV1

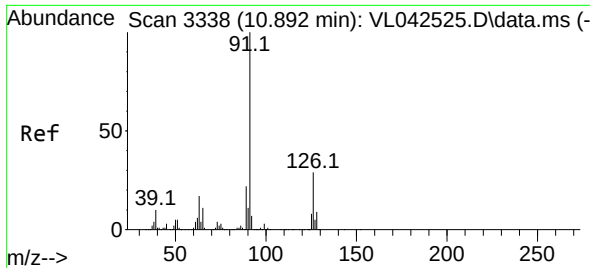
Tgt Ion: 95 Resp: 285416
Ion Ratio Lower Upper
95 100
174 59.9 48.0 72.0
175 5.1 3.5 5.3



#69
p-Isopropyltoluene
Concen: 0.330 ppbv
RT: 11.930 min Scan# 3659
Delta R.T. 0.013 min
Lab File: VL042543.D
Acq: 14 May 2025 15:22

Tgt Ion: 119 Resp: 22274
Ion Ratio Lower Upper
119 100
134 26.9 19.8 29.6
91 29.0 23.6 35.4

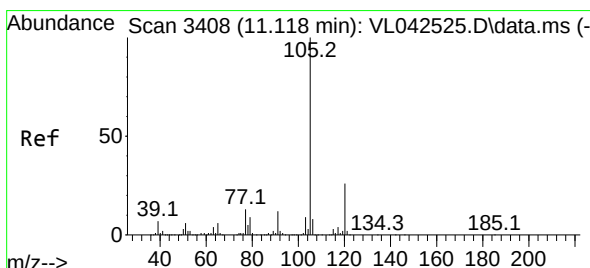
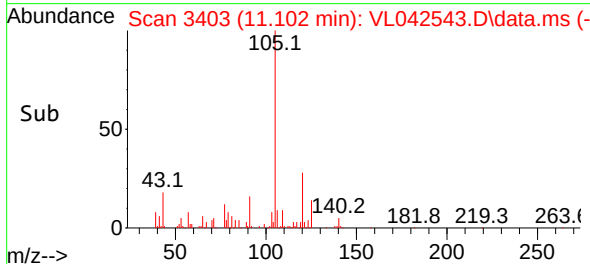
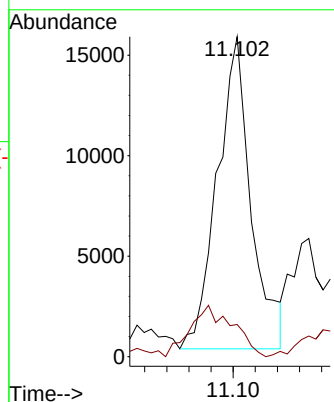
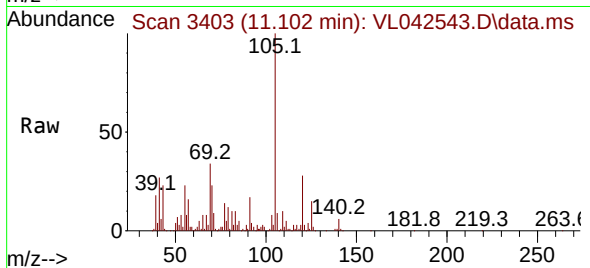




#71
2-Chlorotoluene
Concen: 0.348 ppbv
RT: 11.102 min Scan# 3403
Delta R.T. 0.210 min
Lab File: VL042543.D
Acq: 14 May 2025 15:22

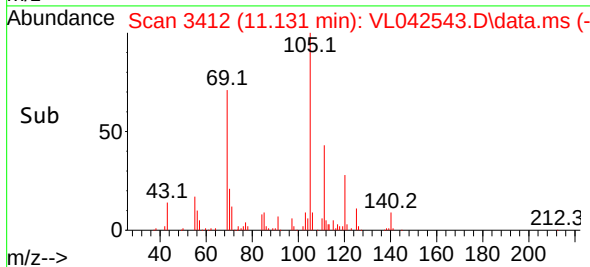
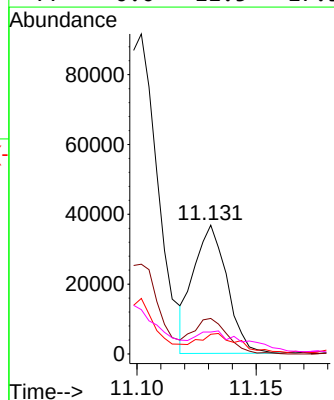
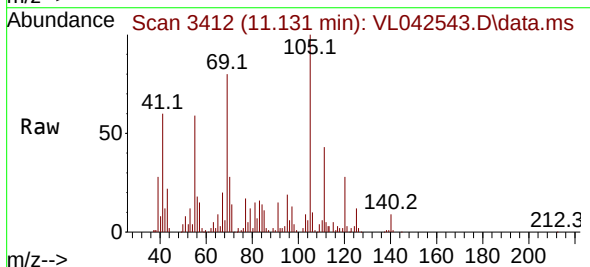
Instrument :
MSVOA_L
ClientSampleId :
SV1

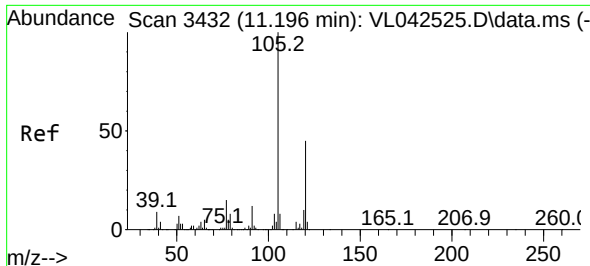
Tgt Ion: 91 Resp: 16459
Ion Ratio Lower Upper
91 100
126 23.9 11.4 45.6



#72
4-Ethyltoluene
Concen: 0.700 ppbv
RT: 11.131 min Scan# 3412
Delta R.T. 0.013 min
Lab File: VL042543.D
Acq: 14 May 2025 15:22

Tgt Ion:105 Resp: 35977
Ion Ratio Lower Upper
105 100
120 0.0 22.9 34.3#
91 0.0 10.9 16.3#
77 0.0 11.5 17.3#

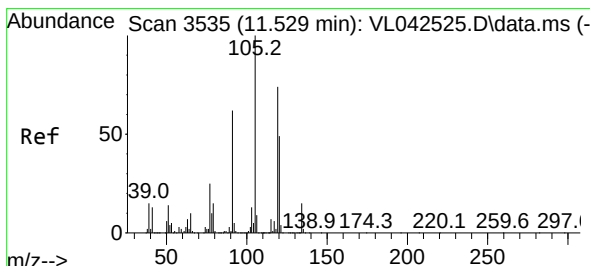
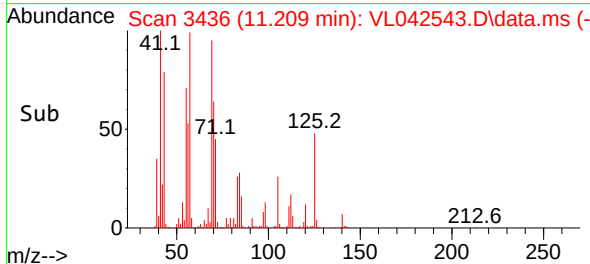
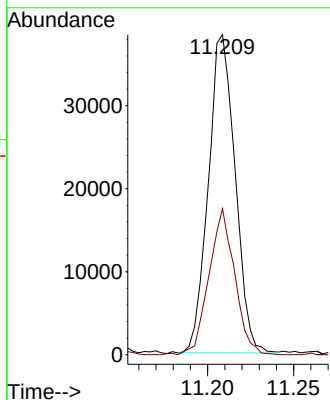
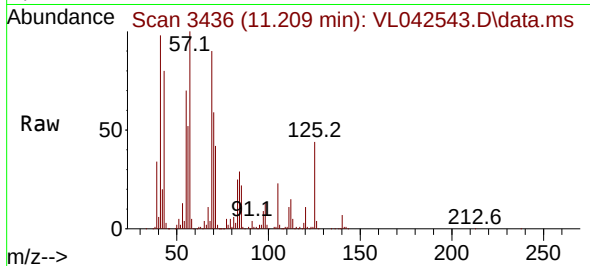




#73
 1,3,5-Trimethylbenzene
 Concen: 0.930 ppbv
 RT: 11.209 min Scan# 3432
 Delta R.T. 0.013 min
 Lab File: VL042543.D
 Acq: 14 May 2025 15:22

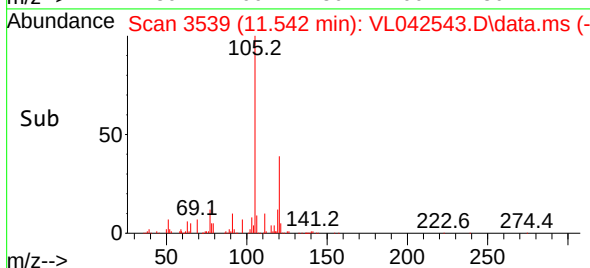
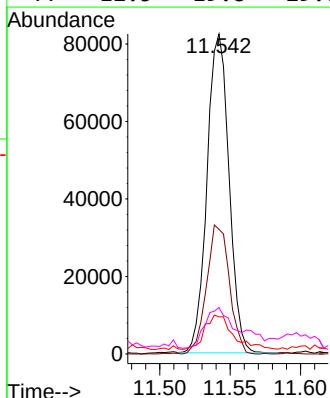
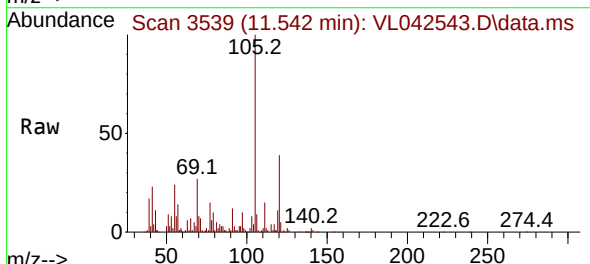
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

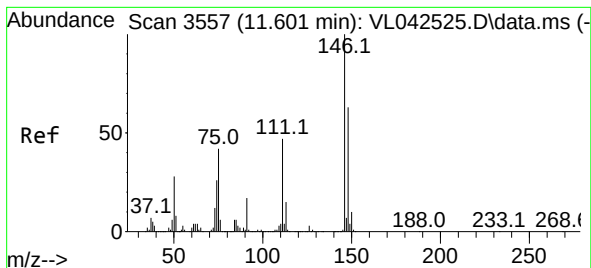
Tgt Ion:105 Resp: 41636
 Ion Ratio Lower Upper
 105 100
 120 45.8 36.0 54.0



#74
 1,2,4-Trimethylbenzene
 Concen: 1.623 ppbv
 RT: 11.542 min Scan# 3539
 Delta R.T. 0.013 min
 Lab File: VL042543.D
 Acq: 14 May 2025 15:22

Tgt Ion:105 Resp: 89411
 Ion Ratio Lower Upper
 105 100
 120 38.9 39.0 58.6#
 91 10.1 49.4 74.2#
 77 12.5 19.8 29.6#





#75

1,3-Dichlorobenzene

Concen: 0.145 ppbv

RT: 11.675 min Scan# 3580

Delta R.T. 0.074 min

Lab File: VL042543.D

Acq: 14 May 2025 15:22

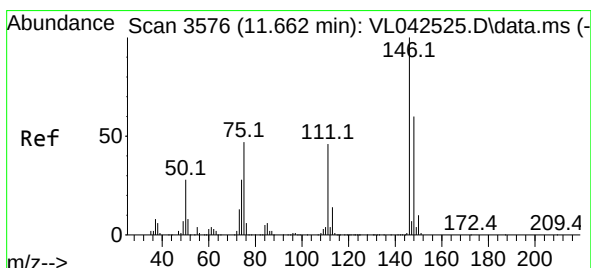
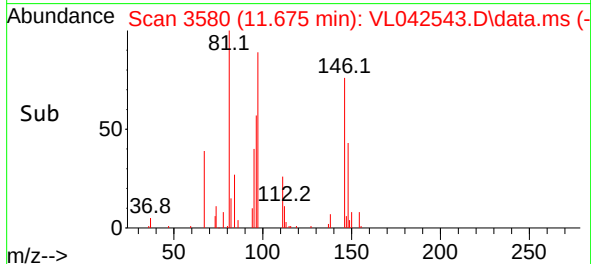
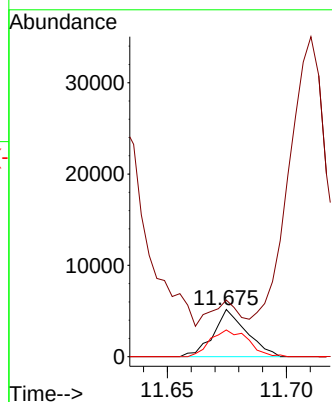
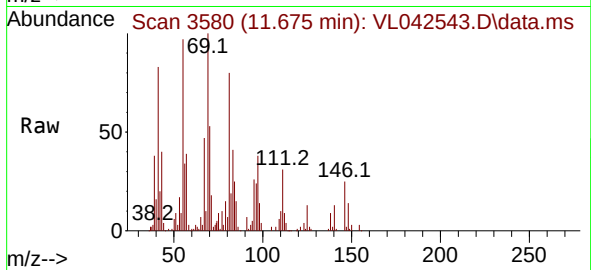
Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion:146	Resp:	4994
Ion Ratio	Lower	Upper
146	100	
111	863.8	23.6 71.0#
148	65.0	31.6 94.8



#76

1,4-Dichlorobenzene

Concen: 0.152 ppbv

RT: 11.675 min Scan# 3580

Delta R.T. 0.013 min

Lab File: VL042543.D

Acq: 14 May 2025 15:22

Tgt Ion:146	Resp:	4994
Ion Ratio	Lower	Upper
146	100	
111	864.8	23.4 70.3#
148	65.0	31.6 94.7

