



SHIPPING DOCUMENTS

Client Contact Information				Bottle Order ID : B2504043				Courier :				<u>3</u> of <u>3</u> COCs										
Client ID : RMJE02 Project ID : NJ Cleanup				Sampler Name(s) :				Analysis				Matrix										
Customer Name : RMJ Environomics, Inc. Address : 190 Parish Drive City : Wayne State : NJ Zip Code : 07470 Country :				Project Manager : Jonathan pereira				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified														
				Phone Number : 973-633-0020																		
				Fax Number : 9736330019																		
				Site Details:																		
				Analysis Turnaround Time																		
				Standard : 10 business days OR				Data Package Type :														
				Rush (Specify): _____ Days				EDD Type :														
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15				Indoor/Ambinet Air	Soil Gas		
B-3	4/28	1340	1355	-30	-5	60°F	61°F	-30	-5.1	10615	10297	6 L	400	VL042399.D								
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) 												
		Ambient		Maximum		Minimum																
Start																						
Stop																						
Pressure (Inches of Hg)										** Submittal of this COC indicates approval of the analysis based on existing conditions. Please follow the instructions on the back of this COC.												
		Ambient		Maximum		Minimum																
Start																						
Stop																						
Special Instructions/QC Requirements & Comments :																						
Suspected Contamination: High Medium Low PID Readings:																						
Sampling site (State):																						
Quick Connector required : <u>NO</u>																						
Canisters Shipped by: <u>Sam</u>				Date/Time: <u>4/28/25</u>				Canisters Received by:				Date/Time: <u>4/28/25 1430</u>				B2504043 - 1						
Samples Relinquished by:				Date/Time:				Received by:				Date/Time:										
Relinquished by:				Date/Time:				Received by:				Date/Time:										

Client Contact Information				Bottle Order ID : B2504043				Courier :				2 of 3 COCs									
Client ID : RMJE02 Project ID : NJ Cleanup				Sampler Name(s) :				Analysis				Matrix									
Customer Name : RMJ Environomics, Inc. Address : 190 Parish Drive City : Wayne State : NJ Zip Code : 07470 Country :				Project Manager : Jonathan pereira				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified													
				Phone Number : 973-633-0020																	
				Fax Number : 9736330019																	
				Site Details:																	
				Analysis Turnaround Time																	
				Standard : 10 business days OR				Data Package Type :													
Country :				Rush (Specify): Days				EDD Type :													
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15					Indoor/Ambinet Air	Soil Gas
B-2	4/28	1335	1350	-30	-7	61°F	62°F	-30	-5.5	10533	10595	6 L	400	VL042330.D							
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) Sut											
		Ambient	Maximum	Minimum																	
Start																					
Stop																					
Pressure (Inches of Hg)										** Submittal of this COC indicates approval of the analysis based on existing conditions. Please follow the instructions on the back of this COC.											
		Ambient	Maximum	Minimum																	
Start																					
Stop																					
Special Instructions/QC Requirements & Comments :																					
Suspected Contamination: High Medium Low PID Readings:																					
Sampling site (State):																					
Quick Connector required : NO																					
Canisters Shipped by: Sam				Date/Time: 04/28/25				Canisters Received by: [Signature]				Date/Time: 4/28/25 1430				B2504043 - 2					
Samples Relinquished by:				Date/Time:				Received by:				Date/Time:									
Relinquished by:				Date/Time:				Received by:				Date/Time:									

Client Contact Information						Bottle Order ID : B2504043				Courier :				1 of 3 COCs			
Client ID : RMJE02 Project ID : NJ Cleanup						Sampler Name(s) :				Analysis				Matrix			
Customer Name : RMJ Environomics, Inc. Address : 190 Parish Drive City : Wayne State : NJ Zip Code : 07470 Country :						Project Manager : Jonathan pereira				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified							
						Phone Number : 973-633-0020											
						Fax Number : 9736330019											
						Site Details:											
						Analysis Turnaround Time											
Standard : 10 business days OR						Data Package Type :											
Rush (Specify): Days						EDD Type :											
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15	Indoor/Ambient Air	Soil Gas
B-1	4/28	1330	1345	-30	-6	62°F	64°F	-30	-6.3	10701	10598	6 L	400	VL042399.D			
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) 							
		Ambient	Maximum	Minimum													
Start																	
Stop																	
Pressure (Inches of Hg)										** Submittal of this COC indicates approval of the analysis based on existing conditions. Please follow the instructions on the back of this COC.							
		Ambient	Maximum	Minimum													
Start																	
Stop																	
Special Instructions/QC Requirements & Comments :																	
Suspected Contamination: High Medium Low PID Readings:																	
Sampling site (State):																	
Quick Connector required : NO																	
Canisters Shipped by: Sam				Date/Time: 04/28/25				Canisters Received by: CAU				Date/Time: 4/28/25 1430					
Samples Relinquished by:				Date/Time:				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: Chemtech

Location: 284 Sheffield Street, Mountainside, NJ 7092

GORE

Title: Sample Custodian

Field Sample Seal No.: Q1908

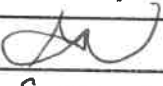
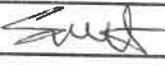
Date Broken 4/29/2025

Military Time Seal Broken: 14:30:00

Case No.: 32 Park St Orange NJ

Analytical Parameter/Fraction TO-15

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q1908-01	B-1		
Q1908-02	B-2		
Q1908-03	B-3		

Date	Time	Relinquished By		Received By		Purpose of Change of Custody
4/29	1045	Signature		Signature		
		Printed Name	GORE N	Printed Name	Sam S. G. G. G.	
		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:	Q1908	OrderDate:	4/29/2025 10:26:04 AM
Client:	RMJ Environomics, Inc.	Project:	32 Park St Orange NJ
Contact:	Jonathan Pereira	Location:	L51

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1908-01	B-1	Air	TO-15	TO-15	04/28/25		04/29/25	04/29/25
Q1908-02	B-2	Air	TO-15	TO-15	04/28/25		04/29/25	04/29/25
Q1908-03	B-3	Air	TO-15	TO-15	04/28/25		04/29/25	04/29/25

Hit Summary Sheet
SW-846

SDG No.: Q1908
Client: RMJ Environomics, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	B-1							
Q1908-01	B-1	Air	Dichlorodifluoromethane	2.42	J	1.04	2.47	ug/m3
Q1908-01	B-1	Air	Chloromethane	0.85	J	0.21	1.03	ug/m3
Q1908-01	B-1	Air	Trichlorofluoromethane	1.18	J	0.90	2.81	ug/m3
Q1908-01	B-1	Air	Acetone	26.1		0.57	1.19	ug/m3
Q1908-01	B-1	Air	Methylene Chloride	1.88		0.66	1.74	ug/m3
Q1908-01	B-1	Air	2-Butanone	7.08		0.35	1.47	ug/m3
Q1908-01	B-1	Air	Carbon Tetrachloride	0.38		0.060	0.19	ug/m3
Q1908-01	B-1	Air	Toluene	0.57	J	0.41	1.88	ug/m3
Q1908-01	B-1	Air	Tetrachloroethene	0.34		0.14	0.20	ug/m3
Q1908-01	B-1	Air	1,2,4-Trimethylbenzene	0.64	J	0.39	2.46	ug/m3
Q1908-01	B-1	Air	Hexane	1.16	J	0.39	1.76	ug/m3
			Total Voc :	42.6				
			Total Concentration:	42.6				
Client ID:	B-2							
Q1908-02	B-2	Air	Dichlorodifluoromethane	2.42	J	1.04	2.47	ug/m3
Q1908-02	B-2	Air	Chloromethane	0.99	J	0.21	1.03	ug/m3
Q1908-02	B-2	Air	Trichlorofluoromethane	1.40	J	0.90	2.81	ug/m3
Q1908-02	B-2	Air	Acetone	7.36		0.57	1.19	ug/m3
Q1908-02	B-2	Air	Methylene Chloride	28.1		0.66	1.74	ug/m3
Q1908-02	B-2	Air	2-Butanone	0.59	J	0.35	1.47	ug/m3
Q1908-02	B-2	Air	Carbon Tetrachloride	0.44		0.060	0.19	ug/m3
Q1908-02	B-2	Air	Hexane	5.64		0.39	1.76	ug/m3
			Total Voc :	47.0				
			Total Concentration:	47.0				
Client ID:	B-3							
Q1908-03	B-3	Air	Dichlorodifluoromethane	2.42	J	1.04	2.47	ug/m3
Q1908-03	B-3	Air	Chloromethane	0.97	J	0.21	1.03	ug/m3
Q1908-03	B-3	Air	Trichlorofluoromethane	1.29	J	0.90	2.81	ug/m3
Q1908-03	B-3	Air	Acetone	8.31		0.57	1.19	ug/m3
Q1908-03	B-3	Air	Methylene Chloride	1.32	J	0.66	1.74	ug/m3
Q1908-03	B-3	Air	2-Butanone	1.53		0.35	1.47	ug/m3
Q1908-03	B-3	Air	Carbon Tetrachloride	0.44		0.060	0.19	ug/m3
Q1908-03	B-3	Air	Toluene	0.57	J	0.41	1.88	ug/m3
Q1908-03	B-3	Air	Hexane	6.34		0.39	1.76	ug/m3
			Total Voc :	23.2				
			Total Concentration:	23.2				

Hit Summary Sheet
SW-846

SDG No.: Q1908

Client: RMJ Environomics, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units



QC SUMMARY

Surrogate Summary

SDG No.: Q1908

Client: RMJ Environomics, Inc.

Analytical Method: SWTO-15

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q1908-01	B-1	1-Bromo-4-Fluorobenzene	10	11.0	110	70 (65)	130 (135)
Q1908-01DUP	B-1DUP	1-Bromo-4-Fluorobenzene	10	11.1	111	70 (65)	130 (135)
Q1908-02	B-2	1-Bromo-4-Fluorobenzene	10	11.3	113	70 (65)	130 (135)
Q1908-03	B-3	1-Bromo-4-Fluorobenzene	10	11.1	111	70 (65)	130 (135)
VL0429ABL01	VL0429ABL01	1-Bromo-4-Fluorobenzene	10	10.6	106	70 (65)	130 (135)
VL0429ABS01	VL0429ABS01	1-Bromo-4-Fluorobenzene	10	11.3	113	70 (65)	130 (135)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1908

Client: RMJ Environomics, Inc.

Analytical Method: SWTO-15

Datafile : VL042438.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL0429ABS01	Dichlorodifluoromethane	10	11.6	ppbv	116			40 (70)	160 (130)	
	Chloromethane	10	11.0	ppbv	110			40 (70)	160 (130)	
	Vinyl Chloride	10	9.60	ppbv	96			70 (70)	130 (130)	
	Bromomethane	10	10.7	ppbv	107			40 (70)	160 (130)	
	Chloroethane	10	10.5	ppbv	105			40 (70)	160 (130)	
	Tetrahydrofuran	10	8.50	ppbv	85			70 (70)	130 (130)	
	Trichlorofluoromethane	10	11.5	ppbv	115			40 (70)	160 (130)	
	1,1,2-Trichlorotrifluoroethane	10	10.9	ppbv	109			70 (70)	130 (130)	
	Dichlorotetrafluoroethane	10	11.2	ppbv	112			70 (70)	130 (130)	
	tert-Butyl Alcohol	10	9.70	ppbv	97			70 (70)	130 (130)	
	Heptane	10	7.60	ppbv	76			70 (70)	130 (130)	
	1,1-Dichloroethene	10	10.2	ppbv	102			70 (70)	130 (130)	
	Acetone	10	9.90	ppbv	99			40 (70)	160 (130)	
	Carbon disulfide	10	10.4	ppbv	104			40 (70)	160 (130)	
	Methyl tert-butyl Ether	10	9.30	ppbv	93			70 (70)	130 (130)	
	Methylene Chloride	10	9.00	ppbv	90			70 (70)	130 (130)	
	trans-1,2-Dichloroethene	10	9.90	ppbv	99			70 (70)	130 (130)	
	1,1-Dichloroethane	10	10.9	ppbv	109			70 (70)	130 (130)	
	Cyclohexane	10	8.60	ppbv	86			70 (70)	130 (130)	
	2-Butanone	10	9.30	ppbv	93			40 (70)	160 (130)	
	Carbon Tetrachloride	10	11.0	ppbv	110			70 (70)	130 (130)	
	cis-1,2-Dichloroethene	10	9.60	ppbv	96			70 (70)	130 (130)	
	Chloroform	10	10.6	ppbv	106			70 (70)	130 (130)	
	1,1,1-Trichloroethane	10	10.3	ppbv	103			70 (70)	130 (130)	
	2,2,4-Trimethylpentane	10	9.00	ppbv	90			70 (70)	130 (130)	
	Benzene	10	9.30	ppbv	93			70 (70)	130 (130)	
	1,2-Dichloroethane	10	12.0	ppbv	120			70 (70)	130 (130)	
	Trichloroethene	10	8.50	ppbv	85			70 (70)	130 (130)	
	1,2-Dichloropropane	10	9.00	ppbv	90			70 (70)	130 (130)	
	Bromodichloromethane	10	11.1	ppbv	111			70 (70)	130 (130)	
	4-Methyl-2-Pentanone	10	7.80	ppbv	78			40 (70)	160 (130)	
	Toluene	10	8.80	ppbv	88			70 (70)	130 (130)	
	t-1,3-Dichloropropene	10	8.90	ppbv	89			70 (70)	130 (130)	
	cis-1,3-Dichloropropene	10	8.80	ppbv	88			70 (70)	130 (130)	
	1,1,2-Trichloroethane	10	9.90	ppbv	99			70 (70)	130 (130)	
	Dibromochloromethane	10	10.2	ppbv	102			70 (70)	130 (130)	
	1,2-Dibromoethane	10	9.60	ppbv	96			70 (70)	130 (130)	
	Tetrachloroethene	10	8.00	ppbv	80			70 (70)	130 (130)	
	Chlorobenzene	10	10.3	ppbv	103			70 (70)	130 (130)	
	Ethyl Benzene	10	10.1	ppbv	101			70 (70)	130 (130)	
	m/p-Xylene	20	20.9	ppbv	104			70 (70)	130 (130)	
	o-Xylene	10	10.6	ppbv	106			70 (70)	130 (130)	
	Styrene	10	9.20	ppbv	92			70 (70)	130 (130)	
	Bromoform	10	9.40	ppbv	94			70 (70)	130 (130)	
	1,1,2,2-Tetrachloroethane	10	9.80	ppbv	98			70 (70)	130 (130)	
	2-Chlorotoluene	10	10.6	ppbv	106			70 (70)	130 (130)	
	1,3,5-Trimethylbenzene	10	10.4	ppbv	104			70 (70)	130 (130)	
	1,2,4-Trimethylbenzene	10	9.90	ppbv	99			70 (70)	130 (130)	

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1908

Client: RMJ Environomics, Inc.

Analytical Method: SWTO-15

Datafile : VL042438.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL0429ABS01	1,3-Dichlorobenzene	10	9.90	ppbv	99			70 (70)	130 (130)	
	1,4-Dichlorobenzene	10	9.90	ppbv	99			70 (70)	130 (130)	
	1,2-Dichlorobenzene	10	10.1	ppbv	101			70 (70)	130 (130)	
	1,2,4-Trichlorobenzene	10	9.50	ppbv	95			70 (70)	130 (130)	
	Hexachloro-1,3-butadiene	10	10.0	ppbv	100			70 (70)	130 (130)	
	Naphthalene	10	9.40	ppbv	94			40 (70)	160 (130)	
	1,3-Butadiene	10	9.90	ppbv	99			70 (70)	130 (130)	
	4-Ethyltoluene	10	10.4	ppbv	104			70 (70)	130 (130)	
	Hexane	10	8.30	ppbv	83			70 (70)	130 (130)	
	Allyl Chloride	10	9.90	ppbv	99			70 (70)	130 (130)	
	1,4-Dioxane	10	7.50	ppbv	75			40 (70)	160 (130)	
	Methyl methacrylate	10	8.00	ppbv	80			70 (70)	130 (130)	

Duplicate Sample Summary

Lab Sample Id :	Q1908-01DUP	Q1908-01
Client Id :	B-1DUP	B-1
DF :	1	1
Datafile :	VL042454.D	VL042443.D
Anal Date & Time :	04/29/2025 19:57	04/29/2025 13:11

Parameter	Result	Result	RPD
1,1,1-Trichloroethane	0	0	0
1,1,2,2-Tetrachloroethane	0	0	0
1,1,2-Trichloroethane	0	0	0
1,1,2-Trichlorotrifluoroethane	0	0	0
1,1-Dichloroethane	0	0	0
1,1-Dichloroethene	0	0	0
1,2,4-Trichlorobenzene	0	0	0
1,2,4-Trimethylbenzene	0.11	0.13	16.7
1,2-Dibromoethane	0	0	0
1,2-Dichlorobenzene	0	0	0
1,2-Dichloroethane	0	0	0
1,2-Dichloropropane	0	0	0
1,3,5-Trimethylbenzene	0	0	0
1,3-Butadiene	0	0	0
1,3-Dichlorobenzene	0	0	0
1,4-Dichlorobenzene	0	0	0
1,4-Dioxane	0	0	0
2,2,4-Trimethylpentane	0	0	0
2-Butanone	2.3	2.4	4.3
2-Chlorotoluene	0	0	0
4-Ethyltoluene	0	0	0
4-Methyl-2-Pentanone	0	0	0
Acetone	10.9	11	0.91
Allyl Chloride	0	0	0
Benzene	0	0	0
Bromodichloromethane	0	0	0
Bromoform	0	0	0
Bromomethane	0	0	0
Carbon Disulfide	0	0	0
Carbon Tetrachloride	0.06	0.06	0

Duplicate Sample Summary

Lab Sample Id :	Q1908-01DUP	Q1908-01
Client Id :	B-1DUP	B-1
DF :	1	1
Datafile :	VL042454.D	VL042443.D
Anal Date & Time :	04/29/2025 19:57	04/29/2025 13:11

Parameter	Result	Result	RPD
Chlorobenzene	0	0	0
Chloroethane	0	0	0
Chloroform	0	0	0
Chloromethane	0.37	0.41	10.3
cis-1,2-Dichloroethene	0	0	0
cis-1,3-Dichloropropene	0	0	0
Cyclohexane	0	0	0
Dibromochloromethane	0	0	0
Dichlorodifluoromethane	0.44	0.49	10.8
Dichlorotetrafluoroethane	0	0	0
Ethyl Benzene	0	0	0
Heptane	0	0	0
Hexachloro-1,3-Butadiene	0	0	0
Hexane	0.32	0.33	3.1
m/p-Xylene	0	0	0
Methyl Methacrylate	0	0	0
Methyl tert-Butyl Ether	0	0	0
Methylene Chloride	0.57	0.54	5.4
Naphthalene	0	0	0
o-Xylene	0	0	0
Styrene	0	0	0
t-1,3-Dichloropropene	0	0	0
tert-Butyl alcohol	0	0	0
Tetrachloroethene	0.05	0.05	0
Tetrahydrofuran	0	0	0
Toluene	0.13	0.15	14.3
trans-1,2-Dichloroethene	0	0	0
Trichloroethene	0	0	0
Trichlorofluoromethane	0.22	0.21	4.7
Vinyl Chloride	0	0	0

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VL0429ABL01

Lab Name: CHEMTECH

Contract: RMJE02

Lab Code: CHEM Case No.: Q1908

SAS No.: Q1908 SDG NO.: Q1908

Lab File ID: VL042437.D

Lab Sample ID: VL0429ABL01

Date Analyzed: 04/29/2025

Time Analyzed: 09:25

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
VL0429ABS01	VL0429ABS01	VL042438.D	04/29/2025
B-1	Q1908-01	VL042443.D	04/29/2025
B-3	Q1908-03	VL042445.D	04/29/2025
B-1DUP	Q1908-01DUP	VL042454.D	04/29/2025
B-2	Q1908-02	VL042456.D	04/29/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: RMJE02
Lab Code: CHEM Case No.: Q1908 SAS No.: Q1908 SDG NO.: Q1908
Lab File ID: VL042348.D BFB Injection Date: 04/17/2025
Instrument ID: MSVOA_L BFB Injection Time: 07:50
GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	23.1
75	30.0 - 66.0% of mass 95	57
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 120.0% of mass 95	59.5
175	4.0 - 9.0% of mass 174	4.5 (7.6) 1
176	93.0 - 101.0% of mass 174	57.6 (96.9) 1
177	5.0 - 9.0% of mass 176	3.6 (6.3) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICCC010	VSTDICCC010	VL042349.D	04/17/2025	09:44
VSTDICCC002	VSTDICCC002	VL042350.D	04/17/2025	10:17
VSTDICCC001	VSTDICCC001	VL042351.D	04/17/2025	10:48
VSTDICCC0.5	VSTDICCC0.5	VL042352.D	04/17/2025	11:19
VSTDICCC0.1	VSTDICCC0.1	VL042353.D	04/17/2025	11:50
VSTDICCC0.03	VSTDICCC0.03	VL042354.D	04/17/2025	12:22
VSTDICCC015	VSTDICCC015	VL042355.D	04/17/2025	12:54

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: RMJE02
Lab Code: CHEM Case No.: Q1908 SAS No.: Q1908 SDG NO.: Q1908
Lab File ID: VL042435.D BFB Injection Date: 04/29/2025
Instrument ID: MSVOA_L BFB Injection Time: 07:55
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	26.5
75	30.0 - 66.0% of mass 95	65.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0.6 (1.1) 1
174	50.0 - 120.0% of mass 95	51.1
175	4.0 - 9.0% of mass 174	3.7 (7.3) 1
176	93.0 - 101.0% of mass 174	50.1 (98) 1
177	5.0 - 9.0% of mass 176	3.5 (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
VSTDCCC010	VSTDCCC010	VL042436.D	04/29/2025	08:39
VL0429ABL01	VL0429ABL01	VL042437.D	04/29/2025	09:25
VL0429ABS01	VL0429ABS01	VL042438.D	04/29/2025	10:08
B-1	Q1908-01	VL042443.D	04/29/2025	13:11
B-3	Q1908-03	VL042445.D	04/29/2025	14:19
B-1DUP	Q1908-01DUP	VL042454.D	04/29/2025	19:57
B-2	Q1908-02	VL042456.D	04/29/2025	21:58

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: RMJE02
 Lab Code: CHEM Case No.: Q1908 SAS No.: Q1908 SDG NO.: Q1908
 Lab File ID: VL042436.D Date Analyzed: 04/29/2025
 Instrument ID: MSVOA_L Time Analyzed: 08:39
 GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	114553	2.78	311268	3.95	269987	8.88
UPPER LIMIT	160374	3.11	435775	4.28	377982	9.21
LOWER LIMIT	68731.8	2.45	186761	3.62	161992	8.55
EPA SAMPLE NO.						
B-1	116167	2.79	309224	3.97	265424	8.89
B-1DUP	114972	2.79	297262	3.97	249799	8.89
B-2	111841	2.79	295318	3.97	246635	8.89
B-3	116924	2.79	304231	3.97	256038	8.89
VL0429ABL01	119014	2.79	328601	3.96	276498	8.89
VL0429ABS01	116772	2.79	317590	3.96	272312	8.88

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

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

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



SAMPLE DATA

Report of Analysis

Client:	RMJ Environomics, Inc.	Date Collected:	04/28/25
Project:	32 Park St Orange NJ	Date Received:	04/29/25
Client Sample ID:	B-1	SDG No.:	Q1908
Lab Sample ID:	Q1908-01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042443.D	1		04/29/25 13:11	VL042925

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.49	2.42	J	1.04	2.47	ug/m3
74-87-3	Chloromethane	0.41	0.85	J	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
74-83-9	Bromomethane	0.14	0.54	U	0.54	1.94	ug/m3
75-00-3	Chloroethane	0.17	0.45	U	0.45	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.13	0.38	U	0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.21	1.18	J	0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.16	1.23	U	1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.090	0.63	U	0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.19	0.58	U	0.58	1.52	ug/m3
142-82-5	Heptane	0.11	0.45	U	0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
67-64-1	Acetone	11.0	26.1		0.57	1.19	ug/m3
75-15-0	Carbon Disulfide	0.16	0.50	U	0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.12	0.43	U	0.43	1.80	ug/m3
75-09-2	Methylene Chloride	0.54	1.88		0.66	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.19	0.75	U	0.75	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02	ug/m3
110-82-7	Cyclohexane	0.22	0.76	U	0.76	1.72	ug/m3
78-93-3	2-Butanone	2.40	7.08		0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.060	0.38		0.060	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
67-66-3	Chloroform	0.080	0.39	U	0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.10	0.47	U	0.47	2.34	ug/m3
71-43-2	Benzene	0.090	0.29	U	0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.11	0.51	U	0.51	2.31	ug/m3
75-27-4	Bromodichloromethane	0.080	0.54	U	0.54	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.090	0.37	U	0.37	2.05	ug/m3
108-88-3	Toluene	0.15	0.57	J	0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.070	0.38	U	0.38	2.73	ug/m3

Report of Analysis

Client:	RMJ Environomics, Inc.	Date Collected:	04/28/25
Project:	32 Park St Orange NJ	Date Received:	04/29/25
Client Sample ID:	B-1	SDG No.:	Q1908
Lab Sample ID:	Q1908-01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042443.D	1		04/29/25 13:11	VL042925

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.070	0.60	U	0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.070	0.54	U	0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	0.050	0.34		0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.080	0.37	U	0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	0.12	0.52	U	0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	0.21	0.91	U	0.91	4.34	ug/m3
95-47-6	o-Xylene	0.12	0.52	U	0.52	2.17	ug/m3
100-42-5	Styrene	0.11	0.47	U	0.47	2.13	ug/m3
75-25-2	Bromoform	0.060	0.62	U	0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.010	0.070	U	0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.11	0.57	U	0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.11	0.54	U	0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.13	0.64	J	0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.050	0.30	U	0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.090	0.67	U	0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.090	0.96	U	0.96	5.33	ug/m3
106-99-0	1,3-Butadiene	0.13	0.29	U	0.29	1.11	ug/m3
91-20-3	Naphthalene	0.080	0.42	U	0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	0.12	0.59	U	0.59	2.46	ug/m3
110-54-3	Hexane	0.33	1.16	J	0.39	1.76	ug/m3
107-05-1	Allyl Chloride	0.15	0.47	U	0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	0.21	0.76	U	0.76	1.80	ug/m3
80-62-6	Methyl Methacrylate	0.090	0.37	U	0.37	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	11.0			70 (65) - 130 (135)	110%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	116000		2.79			
540-36-3	1,4-Difluorobenzene	309000		3.965			
3114-55-4	Chlorobenzene-d5	265000		8.888			

Report of Analysis

Client:	RMJ Environomics, Inc.	Date Collected:	04/28/25
Project:	32 Park St Orange NJ	Date Received:	04/29/25
Client Sample ID:	B-1	SDG No.:	Q1908
Lab Sample ID:	Q1908-01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042443.D	1		04/29/25 13:11	VL042925

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

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\VL042925\
 Data File : VL042443.D
 Acq On : 29 Apr 2025 13:11
 Operator : SY/MD
 Sample : Q1908-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 B-1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/30/2025
 Supervised By :Mahesh Dadoda 04/30/2025

Quant Time: Apr 30 01:19:56 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

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

QLast Update : Fri Apr 18 02:14:00 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	116167	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	309224	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	265424	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	240596	11.031	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	110.300%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	10046	0.489	ppbv	100
3) Chlorodifluoromethane	1.476	51	4773m	0.244	ppbv	
4) Chloromethane	1.534	50	3300	0.406	ppbv	100
9) Propene	1.486	41	1749	0.197	ppbv	92
11) Trichlorofluoromethane	1.881	101	4172	0.214	ppbv	86
13) Ethanol	1.728	45	15309	10.821	ppbv	80
15) Acetone	1.839	43	209166	10.999	ppbv	98
19) Isopropyl Alcohol	1.894	45	15167	1.436	ppbv #	1
20) Methylene Chloride	2.065	84	4052	0.544	ppbv	91
26) Hexane	2.835	57	6206m	0.327	ppbv	
34) 2-Butanone	2.564	43	58507	2.392	ppbv	95
35) Carbon Tetrachloride	3.764	117	1618	0.058	ppbv #	63
52) Tetrachloroethene	8.228	164	630m	0.049	ppbv	
53) Toluene	6.943	91	5909m	0.148	ppbv	
74) 1,2,4-Trimethylbenzene	11.539	105	7145	0.133	ppbv #	61

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

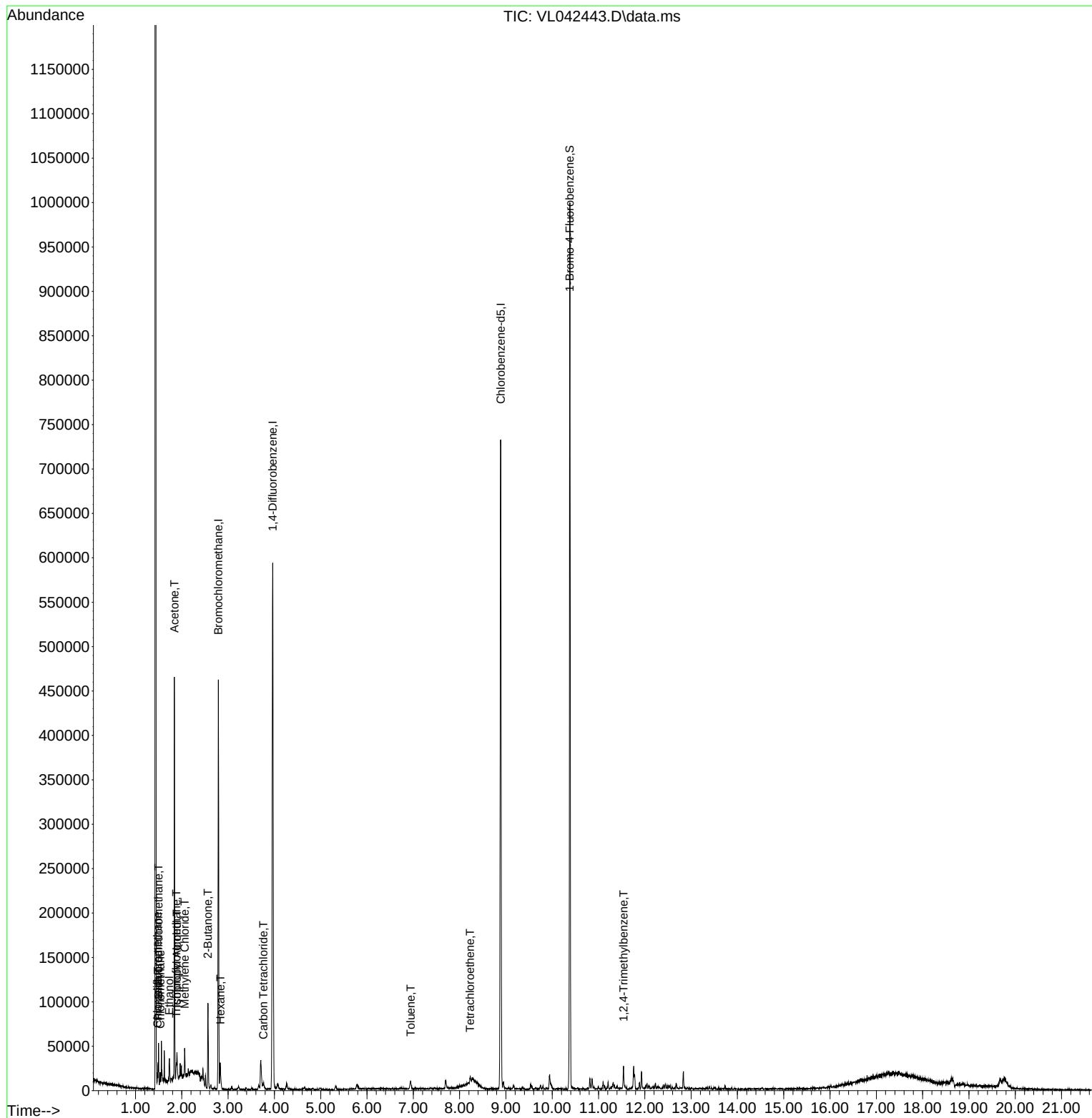
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042925\
Data File : VL042443.D
Acq On : 29 Apr 2025 13:11
Operator : SY/MD
Sample : Q1908-01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

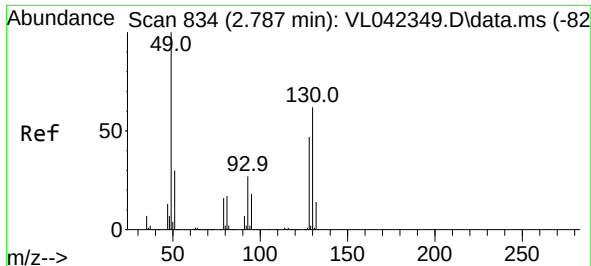
Instrument :
MSVOA_L
ClientSampleId :
B-1

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 04/30/2025
Supervised By : Mahesh Dadoda 04/30/2025

Quant Time: Apr 30 01:19:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration





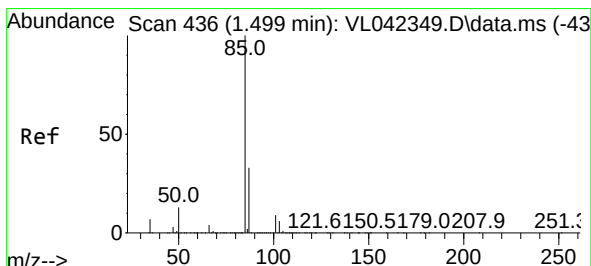
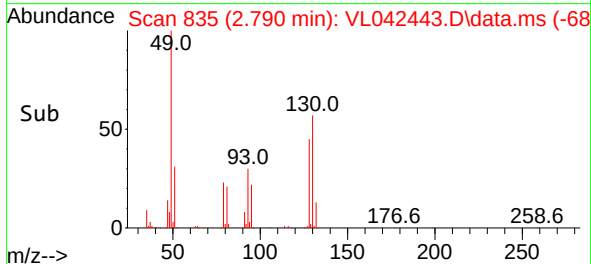
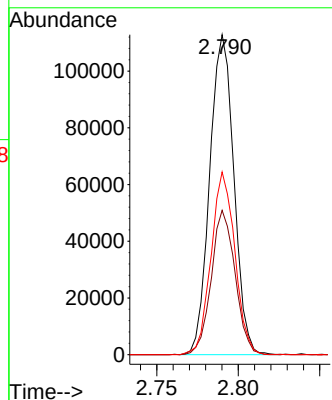
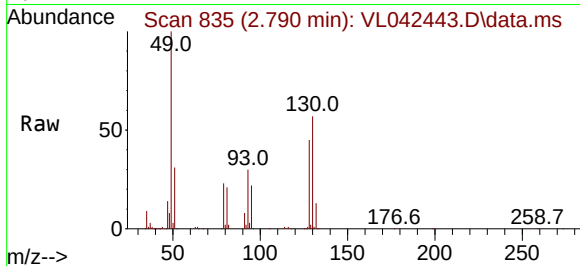
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042443.D
Acq: 29 Apr 2025 13:11

Instrument :
MSVOA_L
ClientSampleId :
B-1

Tgt Ion: 49 Resp: 11616
Ion Ratio Lower Upper
49 100
128 44.6 22.8 68.4
130 56.3 29.3 88.0

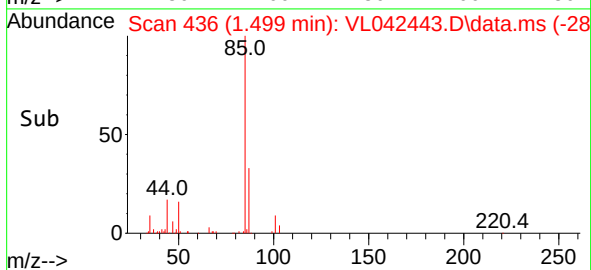
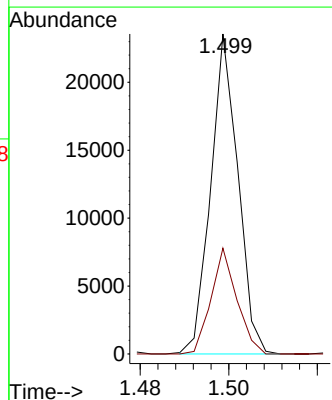
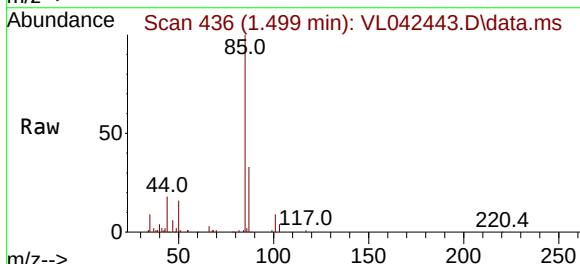
Manual Integrations
APPROVED

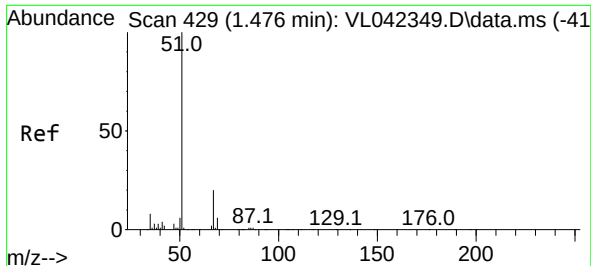
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025



#2
Dichlorodifluoromethane
Concen: 0.489 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042443.D
Acq: 29 Apr 2025 13:11

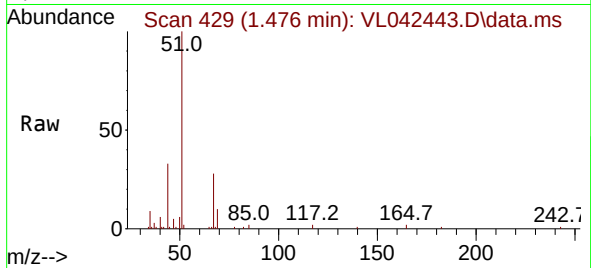
Tgt Ion: 85 Resp: 10046
Ion Ratio Lower Upper
85 100
87 33.0 26.6 39.8





#3
Chlorodifluoromethane
Concen: 0.244 ppbv m
RT: 1.476 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042443.D
Acq: 29 Apr 2025 13:11

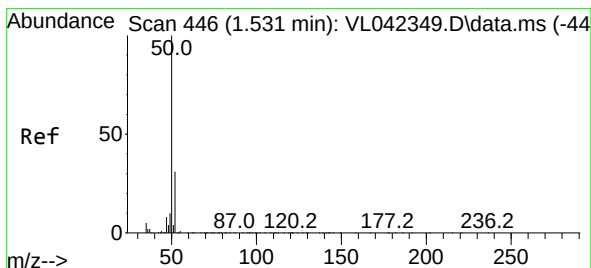
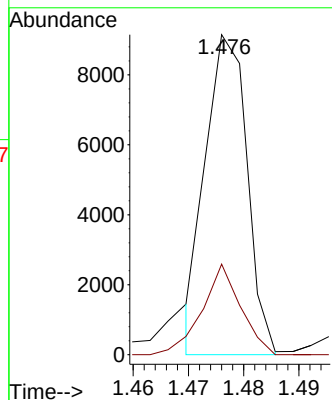
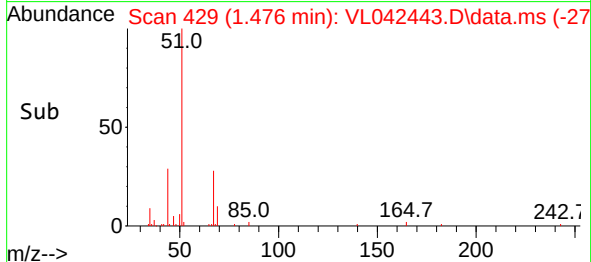
Instrument :
MSVOA_L
ClientSampleId :
B-1



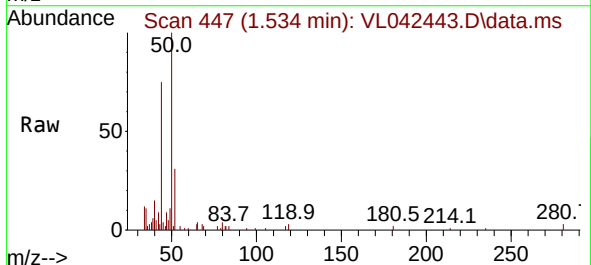
Tgt Ion: 51 Resp: 477
Ion Ratio Lower Upper
51 100
67 26.4 16.2 24.4

Manual Integrations
APPROVED

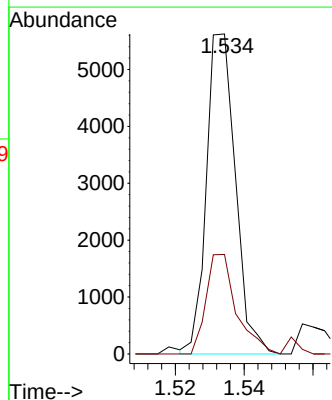
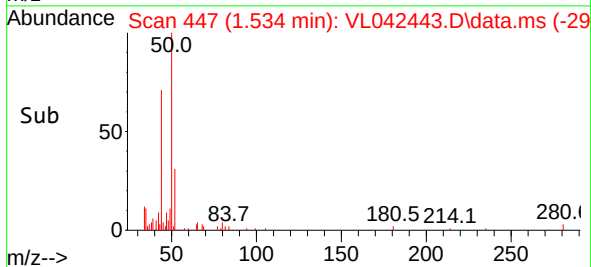
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

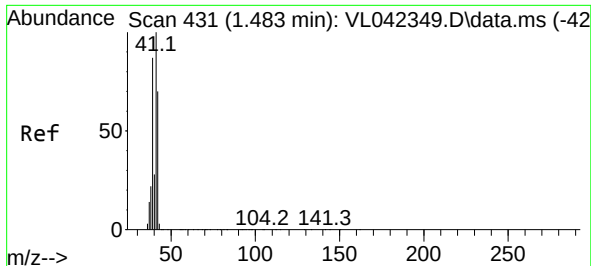


#4
Chloromethane
Concen: 0.406 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042443.D
Acq: 29 Apr 2025 13:11



Tgt Ion: 50 Resp: 3300
Ion Ratio Lower Upper
50 100
52 31.1 24.7 37.1





#9

Propene

Concen: 0.197 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042443.D

Acq: 29 Apr 2025 13:11

Instrument :

MSVOA_L

ClientSampleId :

B-1

Tgt Ion: 41 Resp: 1749

Ion Ratio Lower Upper

41 100

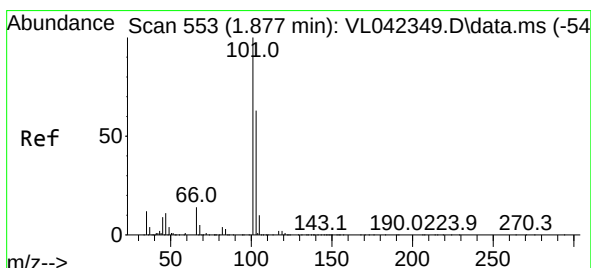
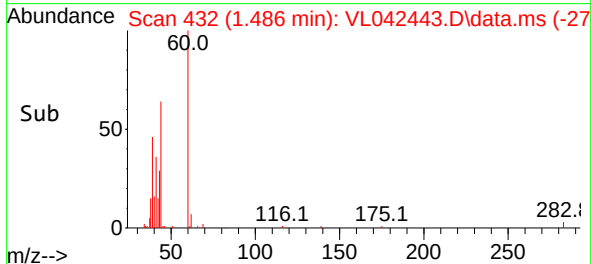
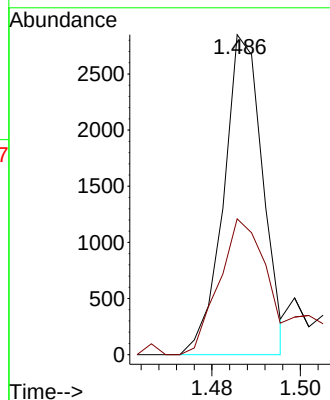
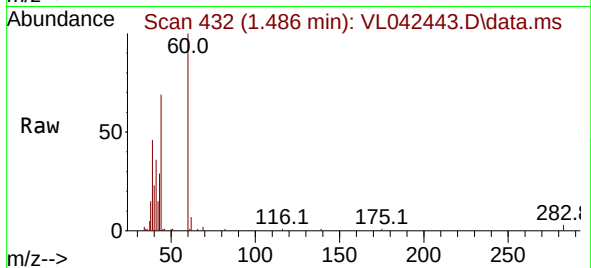
42 64.1 56.2 84.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/30/2025

Supervised By :Mahesh Dadoda 04/30/2025



#11

Trichlorofluoromethane

Concen: 0.214 ppbv

RT: 1.881 min Scan# 554

Delta R.T. 0.003 min

Lab File: VL042443.D

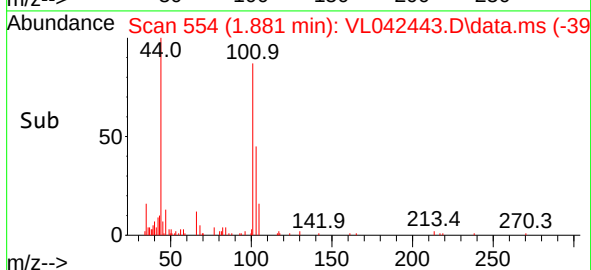
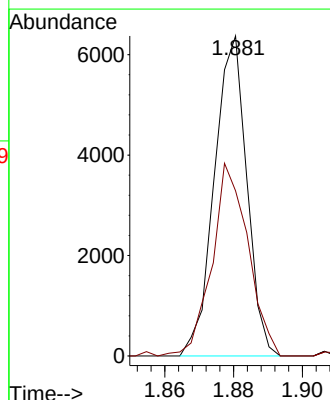
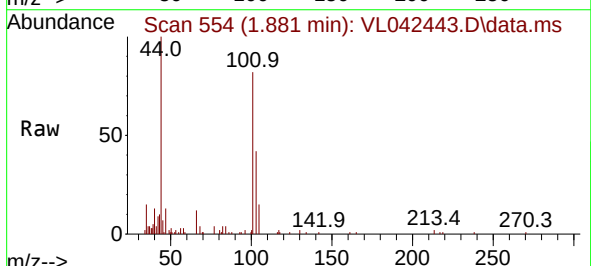
Acq: 29 Apr 2025 13:11

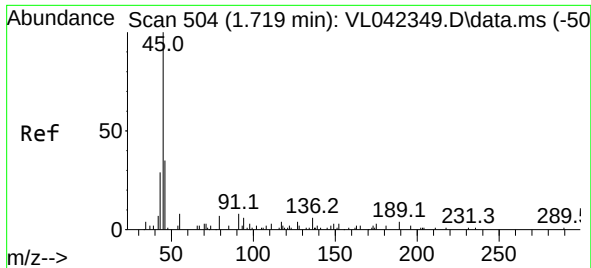
Tgt Ion:101 Resp: 4172

Ion Ratio Lower Upper

101 100

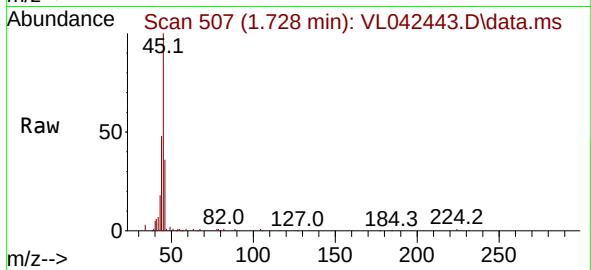
103 51.6 50.1 75.1





#13
Ethanol
Concen: 10.821 ppbv
RT: 1.728 min Scan# 507
Delta R.T. 0.010 min
Lab File: VL042443.D
Acq: 29 Apr 2025 13:11

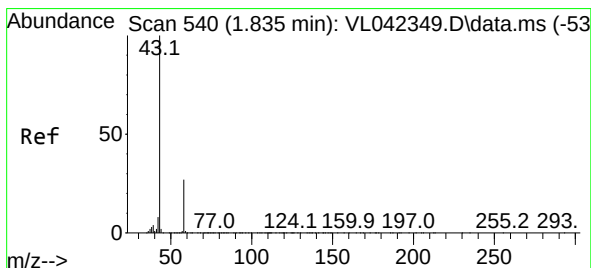
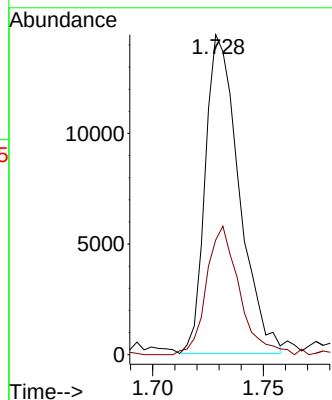
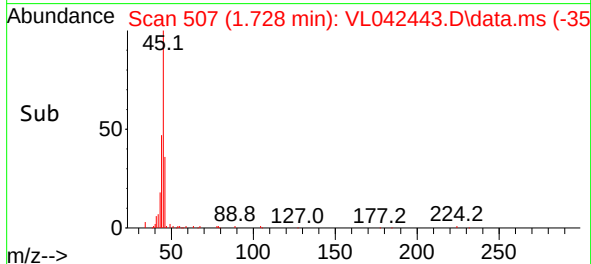
Instrument :
MSVOA_L
ClientSampleId :
B-1



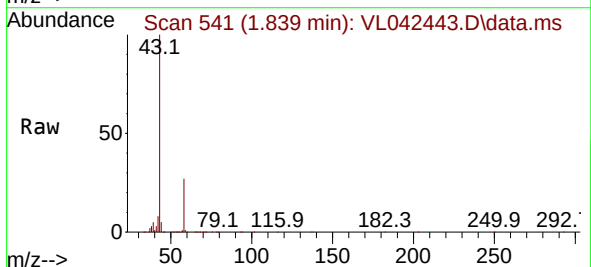
Tgt Ion: 45 Resp: 15309
Ion Ratio Lower Upper
45 100
46 40.3 21.9 87.7

Manual Integrations
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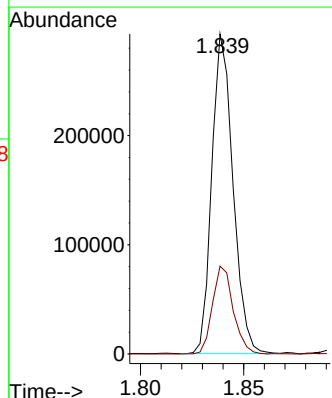
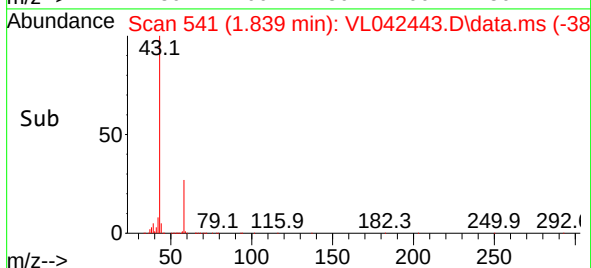
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

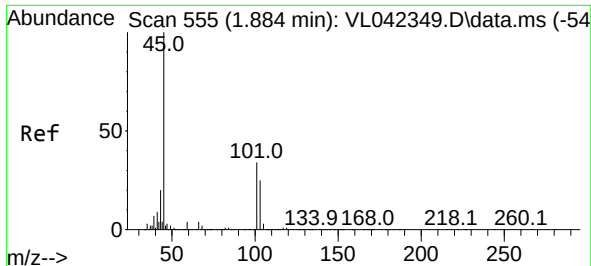


#15
Acetone
Concen: 10.999 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL042443.D
Acq: 29 Apr 2025 13:11



Tgt Ion: 43 Resp: 209166
Ion Ratio Lower Upper
43 100
58 26.8 22.4 33.6





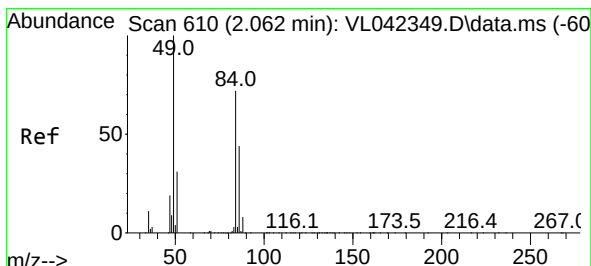
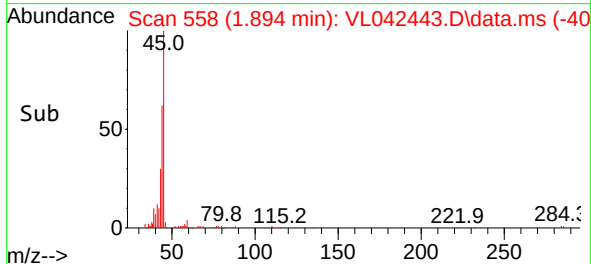
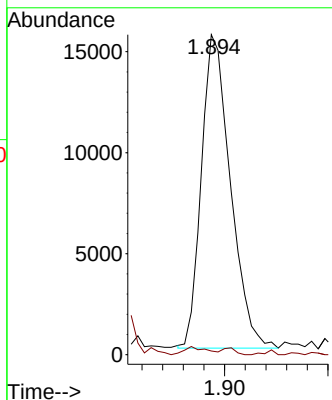
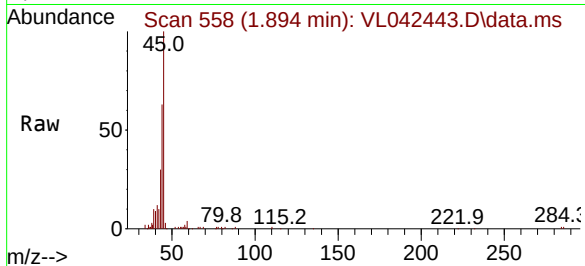
#19
Isopropyl Alcohol
Concen: 1.436 ppbv
RT: 1.894 min Scan# 516
Delta R.T. 0.010 min
Lab File: VL042443.D
Acq: 29 Apr 2025 13:11

Instrument :
MSVOA_L
ClientSampleId :
B-1

Tgt Ion: 45 Resp: 1516
Ion Ratio Lower Upper
45 100
58 369.6 34.5 51.7

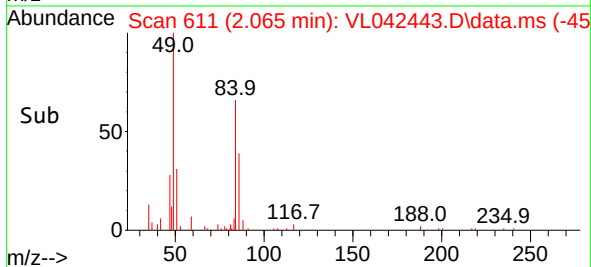
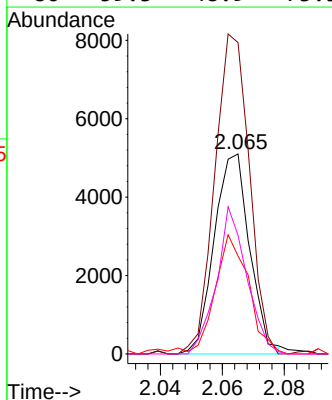
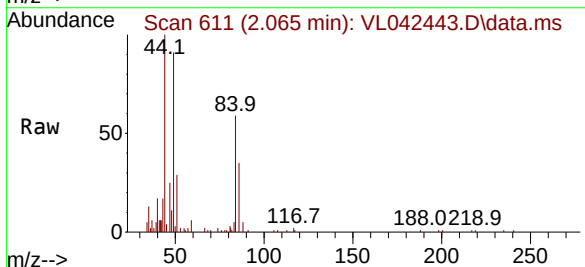
Manual Integrations
APPROVED

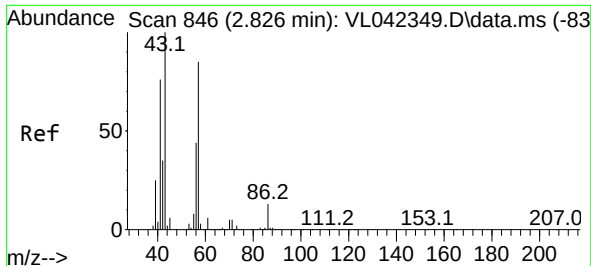
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025



#20
Methylene Chloride
Concen: 0.544 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.003 min
Lab File: VL042443.D
Acq: 29 Apr 2025 13:11

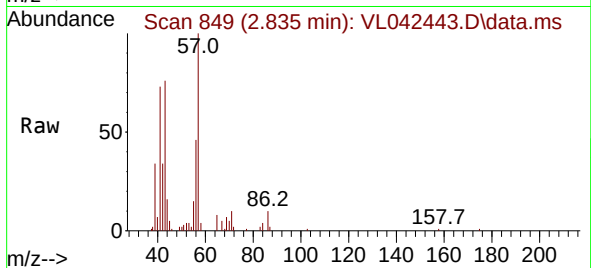
Tgt Ion: 84 Resp: 4052
Ion Ratio Lower Upper
84 100
49 155.6 111.6 167.4
51 47.2 35.1 52.7
86 59.3 48.9 73.3





#26
Hexane
Concen: 0.327 ppbv m
RT: 2.835 min Scan# 846
Delta R.T. 0.010 min
Lab File: VL042443.D
Acq: 29 Apr 2025 13:11

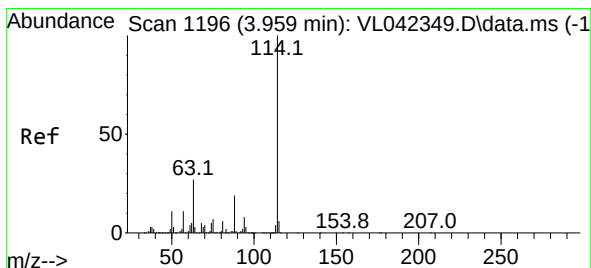
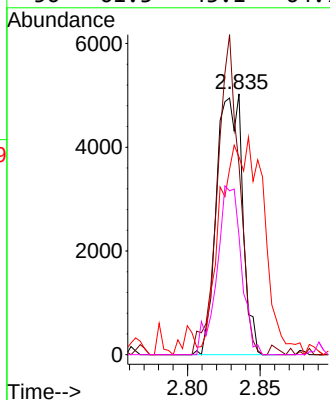
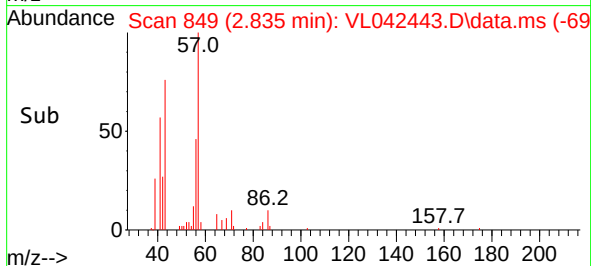
Instrument :
MSVOA_L
ClientSampleId :
B-1



Tgt Ion: 57 Resp: 6200
Ion Ratio Lower Upper
57 100
41 105.3 77.9 116.9
43 0.0 208.4 312.6
56 61.3 43.1 64.7

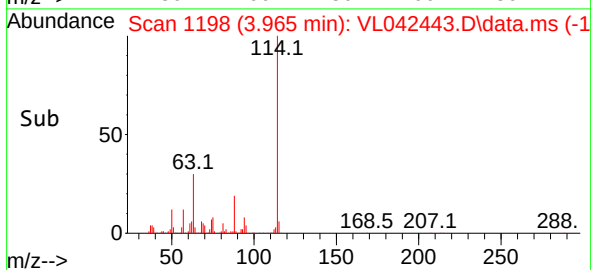
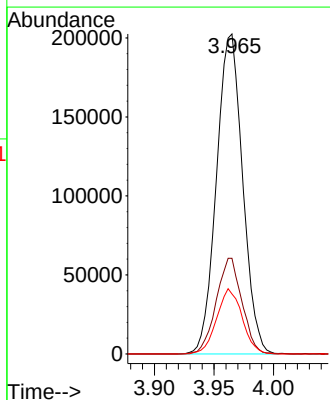
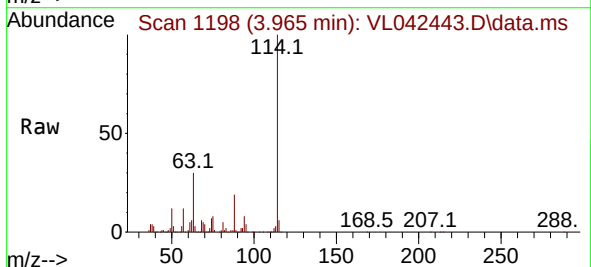
Manual Integrations
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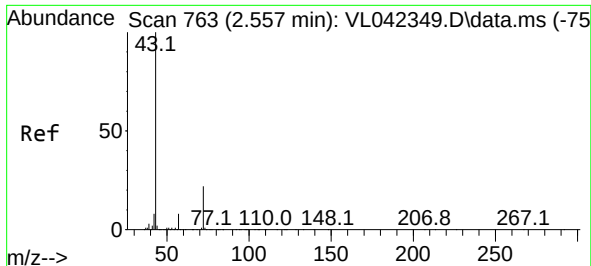
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1198
Delta R.T. 0.006 min
Lab File: VL042443.D
Acq: 29 Apr 2025 13:11

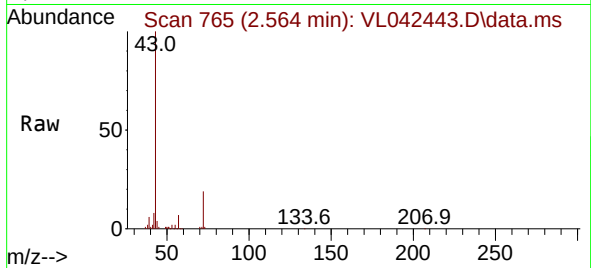
Tgt Ion:114 Resp: 309224
Ion Ratio Lower Upper
114 100
63 29.4 21.8 32.6
88 19.8 15.5 23.3





#34
2-Butanone
Concen: 2.392 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.006 min
Lab File: VL042443.D
Acq: 29 Apr 2025 13:11

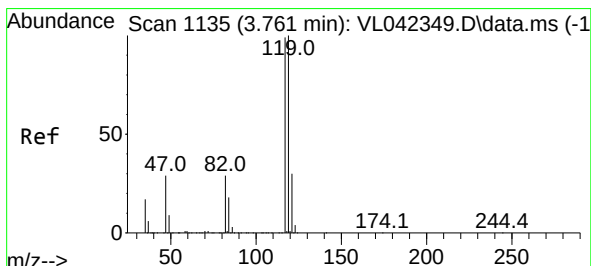
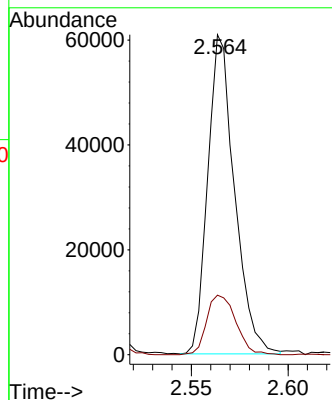
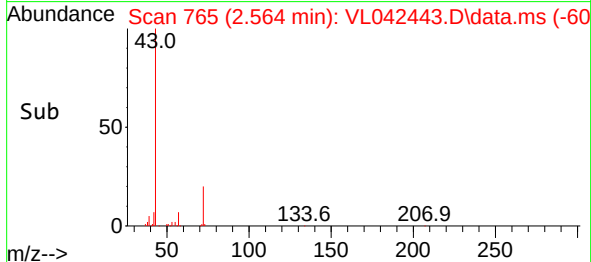
Instrument :
MSVOA_L
ClientSampleId :
B-1



Tgt Ion: 43 Resp: 5850
Ion Ratio Lower Upper
43 100
72 20.4 18.2 27.2

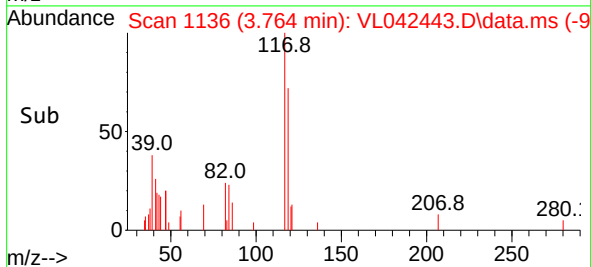
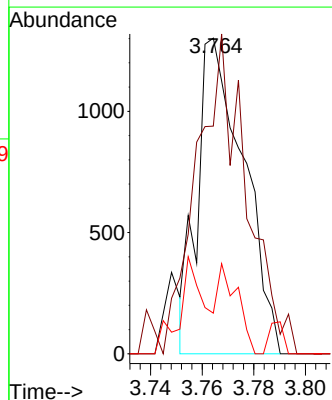
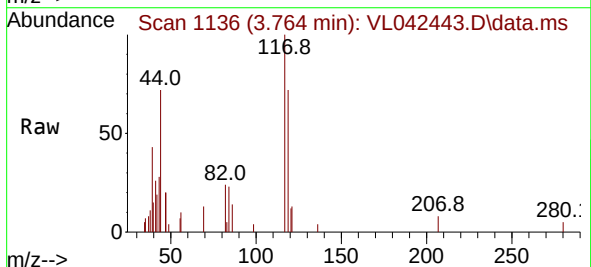
Manual Integrations
APPROVED

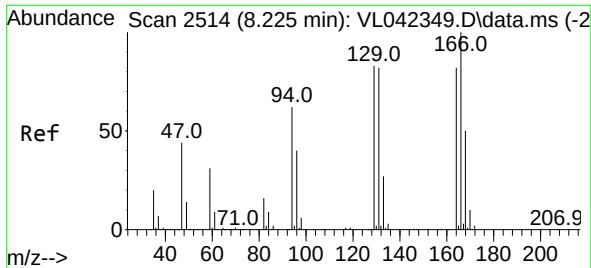
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025



#35
Carbon Tetrachloride
Concen: 0.058 ppbv
RT: 3.764 min Scan# 1136
Delta R.T. 0.003 min
Lab File: VL042443.D
Acq: 29 Apr 2025 13:11

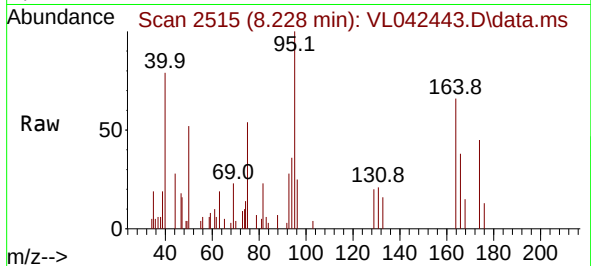
Tgt Ion:117 Resp: 1618
Ion Ratio Lower Upper
117 100
119 65.9 80.5 120.7#
121 5.1 24.2 36.2#





#52
Tetrachloroethene
Concen: 0.049 ppbv m
RT: 8.228 min Scan# 2115
Delta R.T. 0.003 min
Lab File: VL042443.D
Acq: 29 Apr 2025 13:11

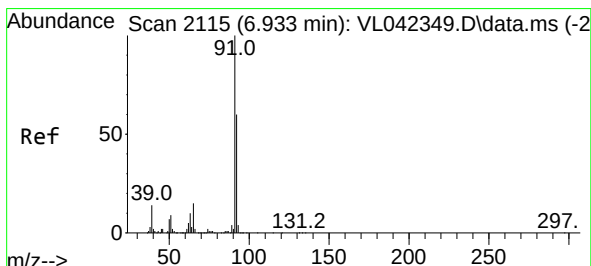
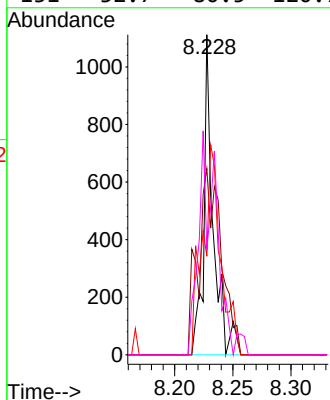
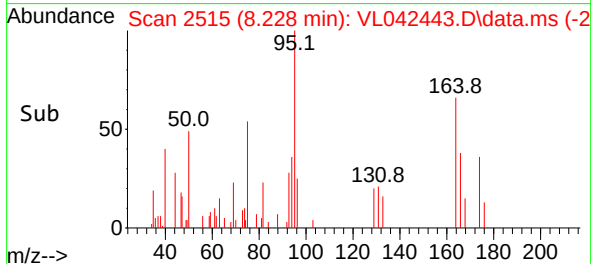
Instrument :
MSVOA_L
ClientSampleId :
B-1



Tgt Ion:164 Resp: 630
Ion Ratio Lower Upper
164 100
166 58.2 98.2 147.2
129 30.8 81.8 122.8
131 32.7 80.5 120.7

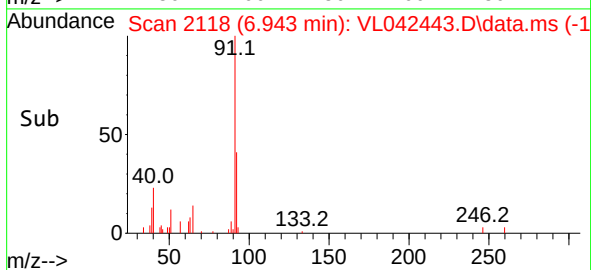
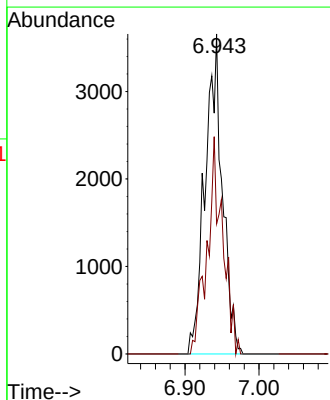
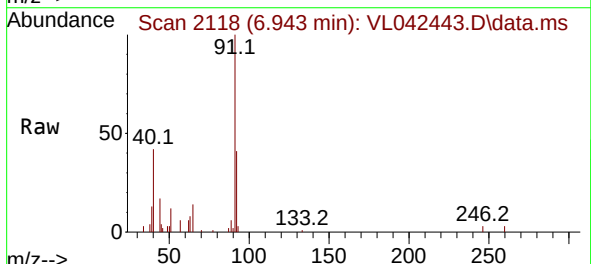
Manual Integrations
APPROVED

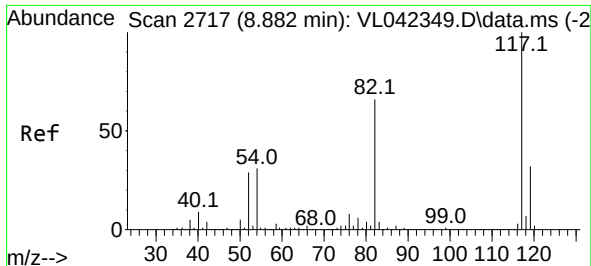
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025



#53
Toluene
Concen: 0.148 ppbv m
RT: 6.943 min Scan# 2118
Delta R.T. 0.010 min
Lab File: VL042443.D
Acq: 29 Apr 2025 13:11

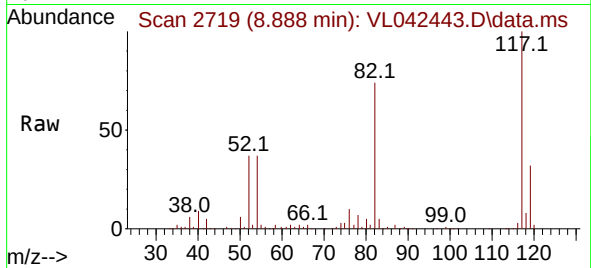
Tgt Ion: 91 Resp: 5909
Ion Ratio Lower Upper
91 100
92 61.4 48.2 72.4





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042443.D
Acq: 29 Apr 2025 13:11

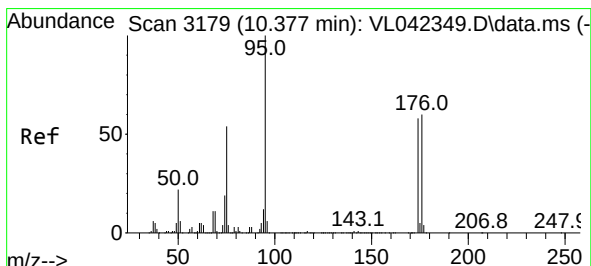
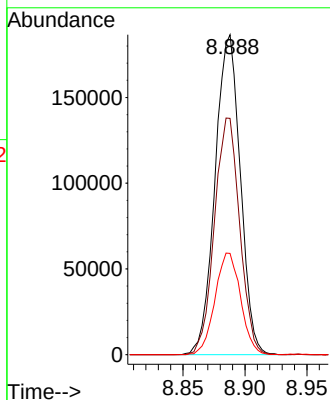
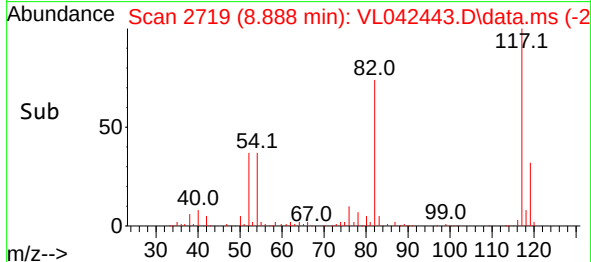
Instrument :
MSVOA_L
ClientSampleId :
B-1



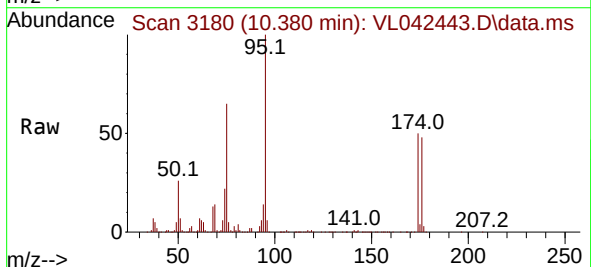
Tgt Ion:117 Resp: 265424
Ion Ratio Lower Upper
117 100
82 73.9 57.8 86.6
119 32.1 25.2 37.8

Manual Integrations
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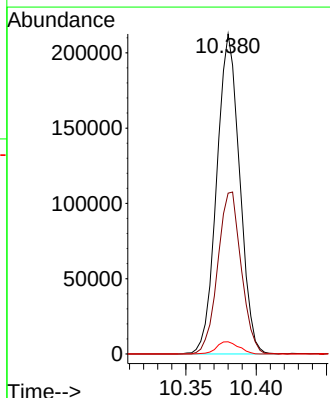
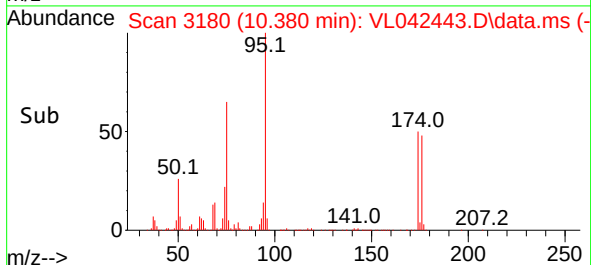
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

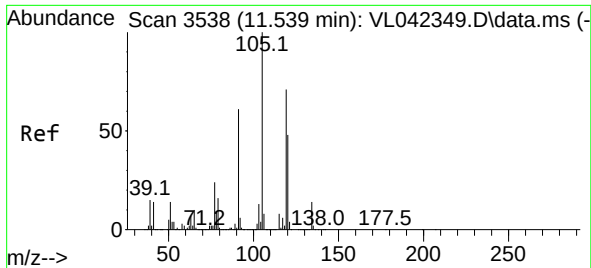


#68
1-Bromo-4-Fluorobenzene
Concen: 11.031 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. 0.003 min
Lab File: VL042443.D
Acq: 29 Apr 2025 13:11



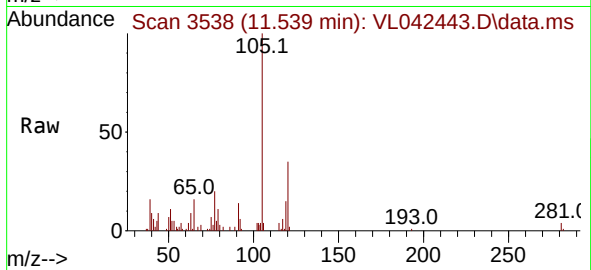
Tgt Ion: 95 Resp: 240596
Ion Ratio Lower Upper
95 100
174 52.0 48.5 72.7
175 3.7 3.7 5.5





#74
 1,2,4-Trimethylbenzene
 Concen: 0.133 ppbv
 RT: 11.539 min Scan# 3538
 Delta R.T. -0.000 min
 Lab File: VL042443.D
 Acq: 29 Apr 2025 13:11

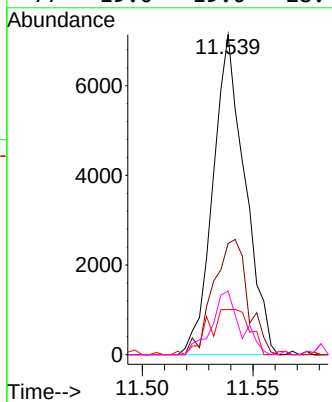
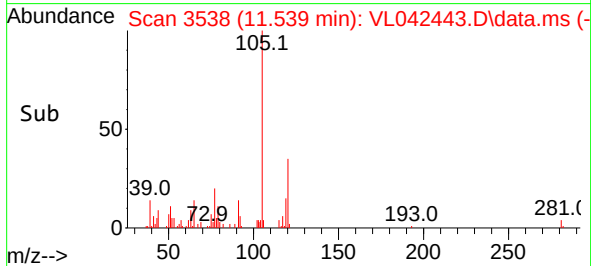
Instrument : MSVOA_L
 ClientSampleId : B-1



Tgt Ion:	105	Resp:	714
Ion	Ratio	Lower	Upper
105	100		
120	33.3	38.1	57.1
91	12.7	48.8	73.2
77	19.0	19.0	28.4

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/30/2025
 Supervised By :Mahesh Dadoda 04/30/2025



Report of Analysis

Client:	RMJ Environomics, Inc.	Date Collected:	04/28/25
Project:	32 Park St Orange NJ	Date Received:	04/29/25
Client Sample ID:	B-2	SDG No.:	Q1908
Lab Sample ID:	Q1908-02	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042456.D	1		04/29/25 21:58	VL042925

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.49	2.42	J	1.04	2.47	ug/m3
74-87-3	Chloromethane	0.48	0.99	J	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
74-83-9	Bromomethane	0.14	0.54	U	0.54	1.94	ug/m3
75-00-3	Chloroethane	0.17	0.45	U	0.45	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.13	0.38	U	0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.25	1.40	J	0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.16	1.23	U	1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.090	0.63	U	0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.19	0.58	U	0.58	1.52	ug/m3
142-82-5	Heptane	0.11	0.45	U	0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
67-64-1	Acetone	3.10	7.36		0.57	1.19	ug/m3
75-15-0	Carbon Disulfide	0.16	0.50	U	0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.12	0.43	U	0.43	1.80	ug/m3
75-09-2	Methylene Chloride	8.10	28.1		0.66	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.19	0.75	U	0.75	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02	ug/m3
110-82-7	Cyclohexane	0.22	0.76	U	0.76	1.72	ug/m3
78-93-3	2-Butanone	0.20	0.59	J	0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.070	0.44		0.060	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
67-66-3	Chloroform	0.080	0.39	U	0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.10	0.47	U	0.47	2.34	ug/m3
71-43-2	Benzene	0.090	0.29	U	0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.11	0.51	U	0.51	2.31	ug/m3
75-27-4	Bromodichloromethane	0.080	0.54	U	0.54	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.090	0.37	U	0.37	2.05	ug/m3
108-88-3	Toluene	0.11	0.41	U	0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.070	0.38	U	0.38	2.73	ug/m3

Report of Analysis

Client:	RMJ Environomics, Inc.	Date Collected:	04/28/25
Project:	32 Park St Orange NJ	Date Received:	04/29/25
Client Sample ID:	B-2	SDG No.:	Q1908
Lab Sample ID:	Q1908-02	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042456.D	1		04/29/25 21:58	VL042925

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.070	0.60	U	0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.070	0.54	U	0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.080	0.37	U	0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	0.12	0.52	U	0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	0.21	0.91	U	0.91	4.34	ug/m3
95-47-6	o-Xylene	0.12	0.52	U	0.52	2.17	ug/m3
100-42-5	Styrene	0.11	0.47	U	0.47	2.13	ug/m3
75-25-2	Bromoform	0.060	0.62	U	0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.010	0.070	U	0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.11	0.57	U	0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.11	0.54	U	0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.080	0.39	U	0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.050	0.30	U	0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.090	0.67	U	0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.090	0.96	U	0.96	5.33	ug/m3
106-99-0	1,3-Butadiene	0.13	0.29	U	0.29	1.11	ug/m3
91-20-3	Naphthalene	0.080	0.42	U	0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	0.12	0.59	U	0.59	2.46	ug/m3
110-54-3	Hexane	1.60	5.64		0.39	1.76	ug/m3
107-05-1	Allyl Chloride	0.15	0.47	U	0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	0.21	0.76	U	0.76	1.80	ug/m3
80-62-6	Methyl Methacrylate	0.090	0.37	U	0.37	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	11.3			70 (65) - 130 (135)	113%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	112000		2.79			
540-36-3	1,4-Difluorobenzene	295000		3.965			
3114-55-4	Chlorobenzene-d5	247000		8.888			

Report of Analysis

Client:	RMJ Environomics, Inc.	Date Collected:	04/28/25
Project:	32 Park St Orange NJ	Date Received:	04/29/25
Client Sample ID:	B-2	SDG No.:	Q1908
Lab Sample ID:	Q1908-02	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042456.D	1		04/29/25 21:58	VL042925

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

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\VL042925\
 Data File : VL042456.D
 Acq On : 29 Apr 2025 21:58
 Operator : SY/MD
 Sample : Q1908-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 B-2

Quant Time: Apr 30 01:26:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Fri Apr 18 02:14:00 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 04/30/2025
 Supervised By : Mahesh Dadoda 04/30/2025

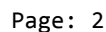
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

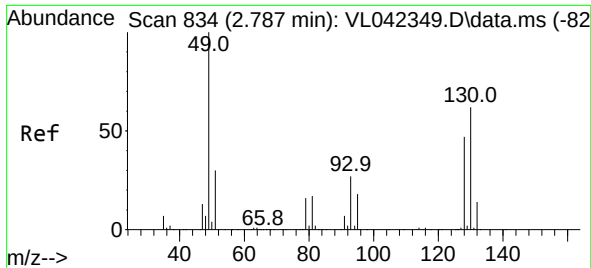
Internal Standards						
1) Bromochloromethane	2.790	49	111841	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	295318	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	246635	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	229841	11.341	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	113.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	9601	0.486	ppbv	94
4) Chloromethane	1.531	50	3721	0.476	ppbv #	81
9) Propene	1.489	41	2343	0.273	ppbv	93
11) Trichlorofluoromethane	1.877	101	4603	0.245	ppbv	94
12) 1,1,2-Trichlorotrifluo...	2.146	101	946	0.062	ppbv	98
13) Ethanol	1.722	45	10654	7.822	ppbv #	24
15) Acetone	1.839	43	57407	3.136	ppbv	97
17) tert-Butyl alcohol	2.052	59	959	0.042	ppbv #	71
19) Isopropyl Alcohol	1.722	45	10654	1.048	ppbv #	52
20) Methylene Chloride	2.065	84	57764	8.056	ppbv	93
23) Vinyl Acetate	2.457	43	1592	0.215	ppbv #	1
25) Ethyl Acetate	2.829	43	21953	0.486	ppbv #	82
26) Hexane	2.829	57	28892	1.582	ppbv #	31
34) 2-Butanone	2.567	43	4598	0.197	ppbv	98
35) Carbon Tetrachloride	3.768	117	1519	0.057	ppbv #	85
36) Benzene	3.658	78	1247	0.039	ppbv #	83
39) 1,2-Dichloropropane	3.965	63	87069	7.335	ppbv #	21
53) Toluene	6.946	91	2460	0.064	ppbv #	72
60) o-Xylene	9.966	91	1209	0.030	ppbv	88
73) 1,3,5-Trimethylbenzene	11.212	105	1755	0.041	ppbv #	69
74) 1,2,4-Trimethylbenzene	11.539	105	5427	0.109	ppbv #	59

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

Manual Integrations

Quant Time: Apr 30 01:26:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration





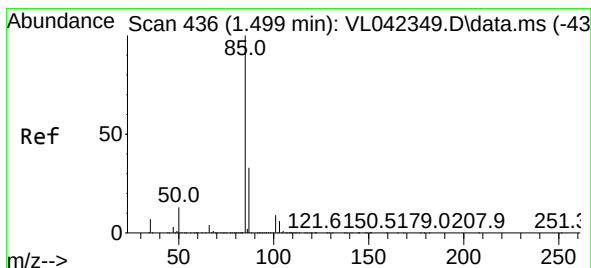
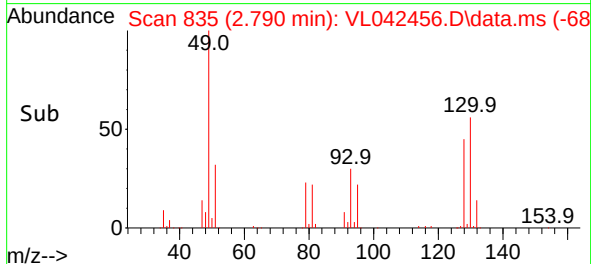
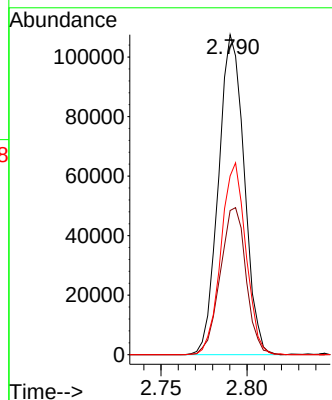
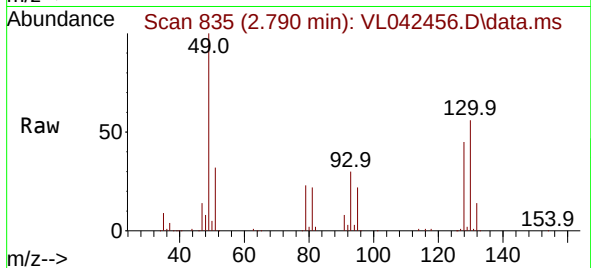
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 834
Delta R.T. 0.003 min
Lab File: VL042456.D
Acq: 29 Apr 2025 21:58

Instrument :
MSVOA_L
ClientSampleId :
B-2

Tgt Ion: 49 Resp: 11184
Ion Ratio Lower Upper
49 100
128 46.1 22.8 68.4
130 58.0 29.3 88.0

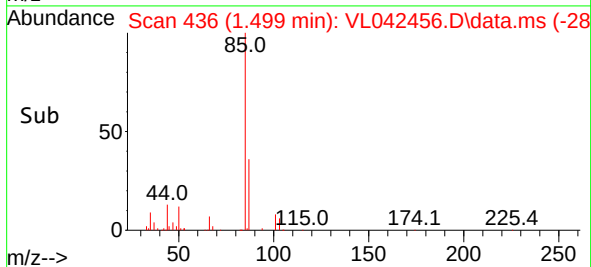
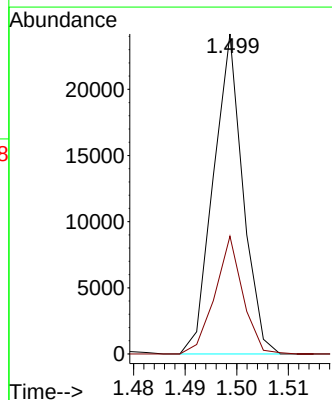
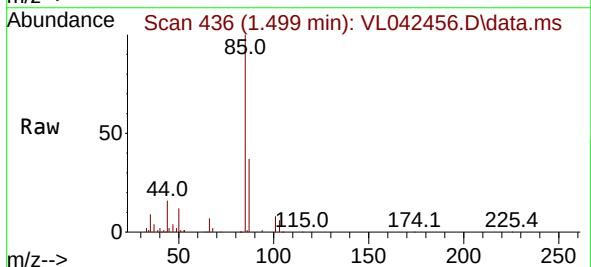
Manual Integrations
APPROVED

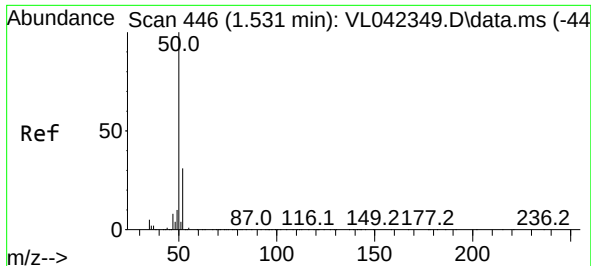
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025



#2
Dichlorodifluoromethane
Concen: 0.486 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042456.D
Acq: 29 Apr 2025 21:58

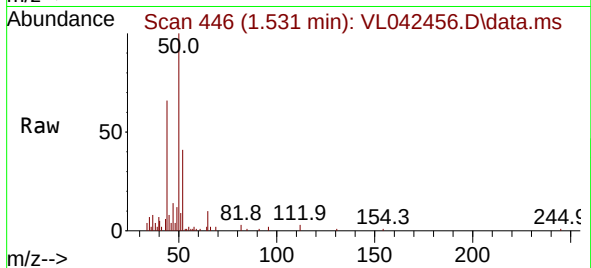
Tgt Ion: 85 Resp: 9601
Ion Ratio Lower Upper
85 100
87 36.8 26.6 39.8





#4
Chloromethane
Concen: 0.476 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042456.D
Acq: 29 Apr 2025 21:58

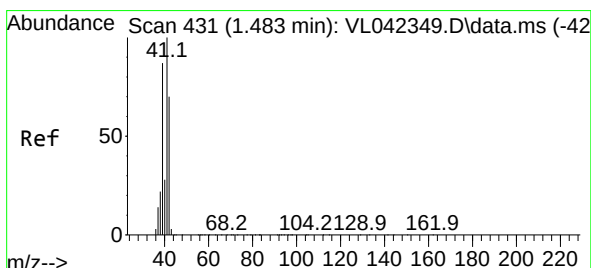
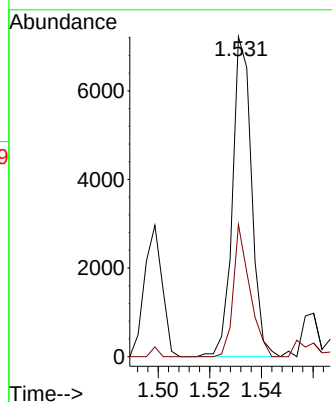
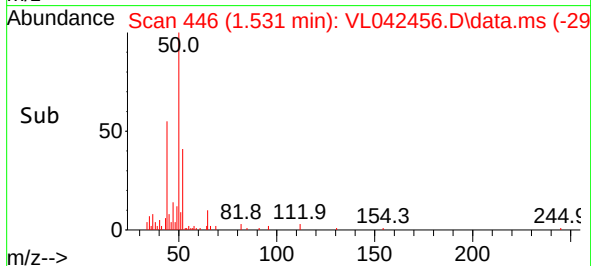
Instrument :
MSVOA_L
ClientSampleId :
B-2



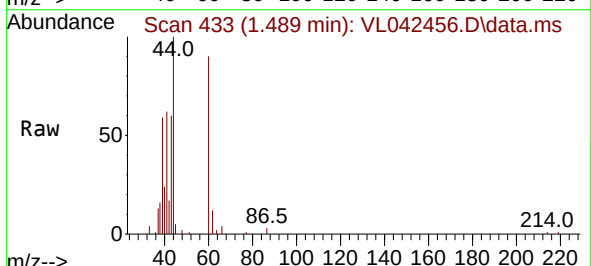
Tgt Ion: 50 Resp: 372
Ion Ratio Lower Upper
50 100
52 41.2 24.7 37.1

Manual Integrations
APPROVED

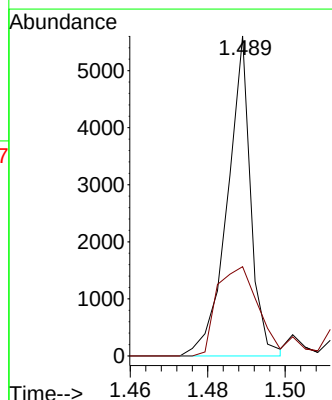
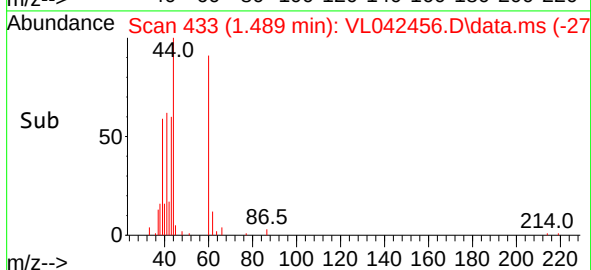
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

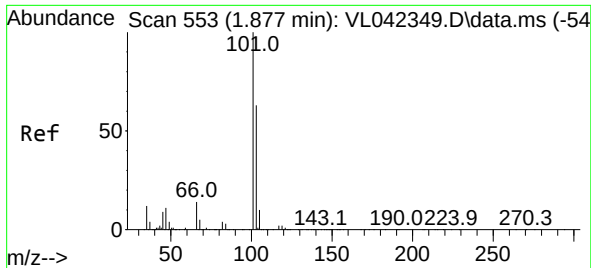


#9
Propene
Concen: 0.273 ppbv
RT: 1.489 min Scan# 433
Delta R.T. 0.006 min
Lab File: VL042456.D
Acq: 29 Apr 2025 21:58



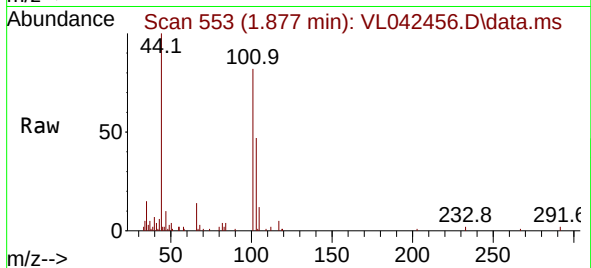
Tgt Ion: 41 Resp: 2343
Ion Ratio Lower Upper
41 100
42 64.7 56.2 84.4





#11
Trichlorofluoromethane
Concen: 0.245 ppbv
RT: 1.877 min Scan# 553
Delta R.T. -0.000 min
Lab File: VL042456.D
Acq: 29 Apr 2025 21:58

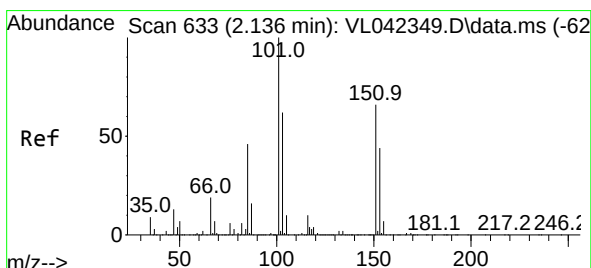
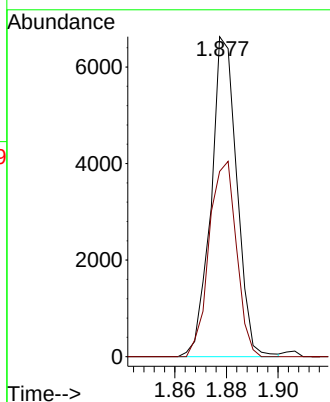
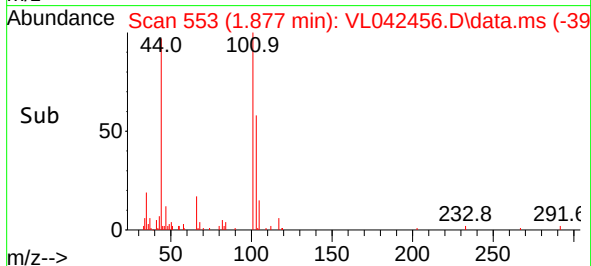
Instrument :
MSVOA_L
ClientSampleId :
B-2



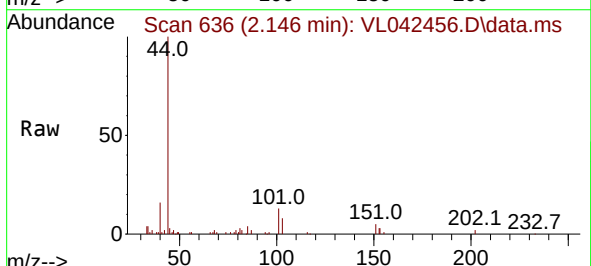
Tgt Ion:101 Resp: 460
Ion Ratio Lower Upper
101 100
103 57.9 50.1 75.1

Manual Integrations
APPROVED

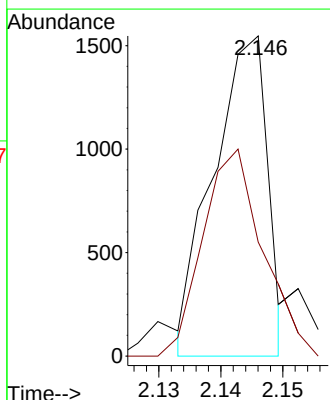
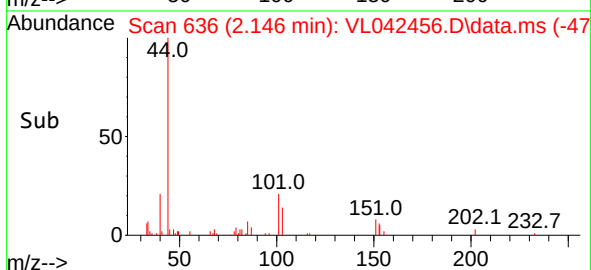
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

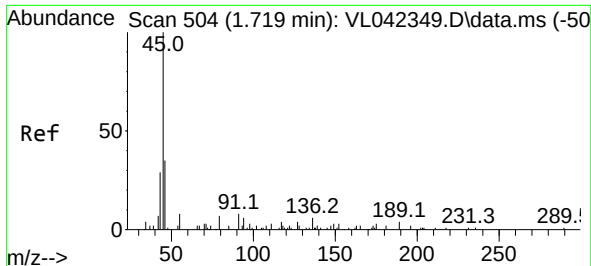


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.062 ppbv
RT: 2.146 min Scan# 636
Delta R.T. 0.010 min
Lab File: VL042456.D
Acq: 29 Apr 2025 21:58



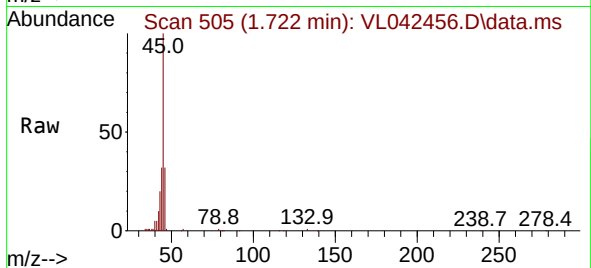
Tgt Ion:101 Resp: 946
Ion Ratio Lower Upper
101 100
151 73.0 57.0 85.6





#13
Ethanol
Concen: 7.822 ppbv
RT: 1.722 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL042456.D
Acq: 29 Apr 2025 21:58

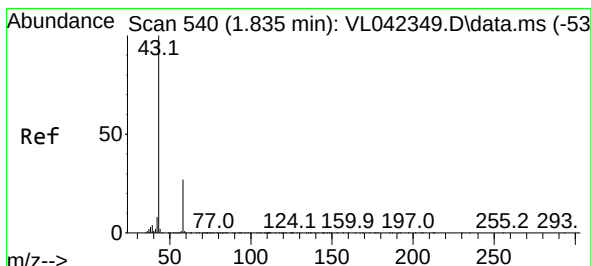
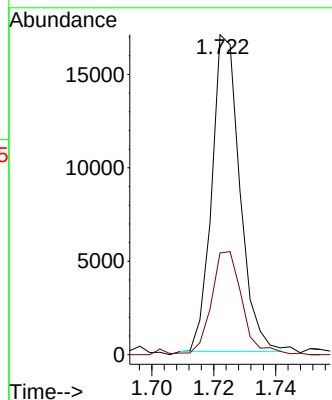
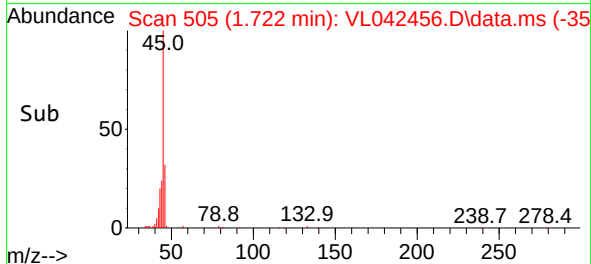
Instrument :
MSVOA_L
ClientSampleId :
B-2



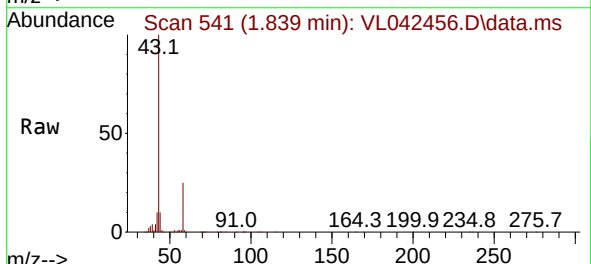
Tgt Ion: 45 Resp: 10654
Ion Ratio Lower Upper
45 100
46 0.0 21.9 87.7

Manual Integrations
APPROVED

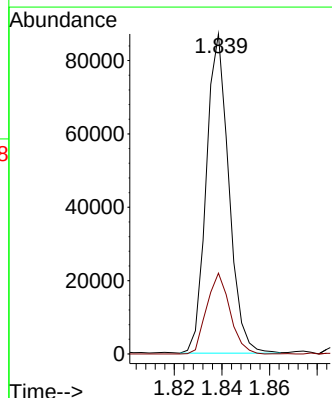
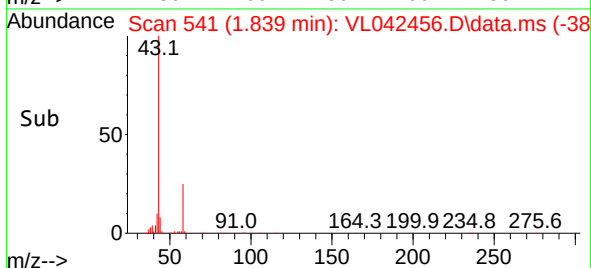
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

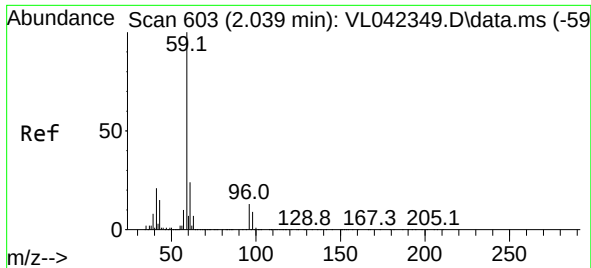


#15
Acetone
Concen: 3.136 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL042456.D
Acq: 29 Apr 2025 21:58



Tgt Ion: 43 Resp: 57407
Ion Ratio Lower Upper
43 100
58 26.2 22.4 33.6





#17

tert-Butyl alcohol

Concen: 0.042 ppbv

RT: 2.052 min Scan# 603

Delta R.T. 0.013 min

Lab File: VL042456.D

Acq: 29 Apr 2025 21:58

Instrument :

MSVOA_L

ClientSampleId :

B-2

Tgt Ion: 59 Resp: 959

Ion Ratio Lower Upper

59 100

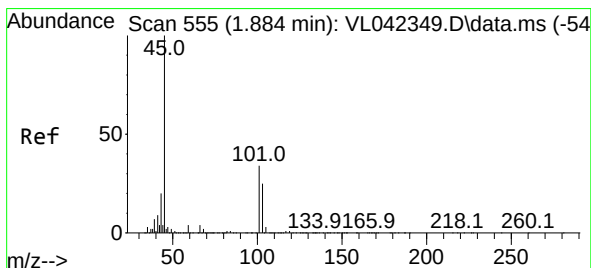
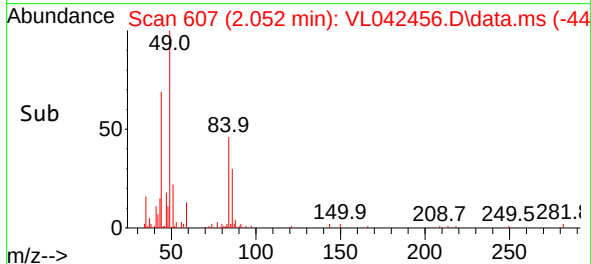
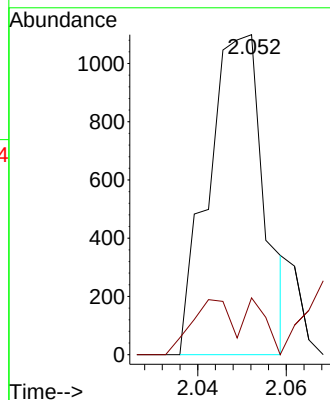
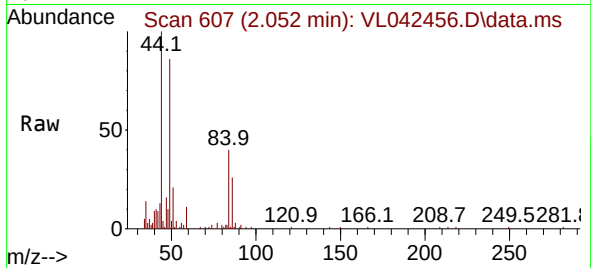
57 0.0 8.7 13.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/30/2025

Supervised By :Mahesh Dadoda 04/30/2025



#19

Isopropyl Alcohol

Concen: 1.048 ppbv

RT: 1.722 min Scan# 505

Delta R.T. -0.162 min

Lab File: VL042456.D

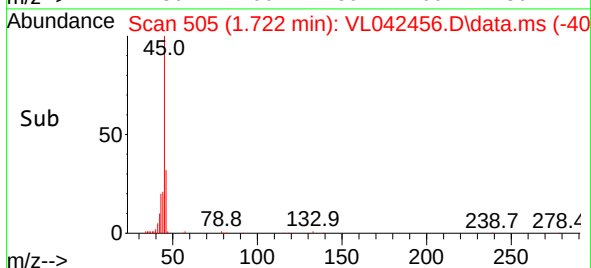
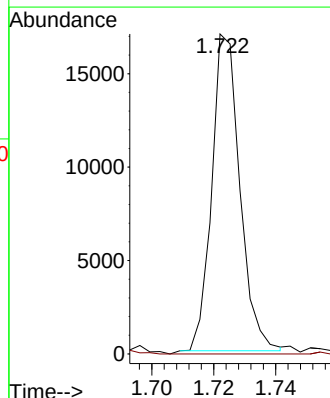
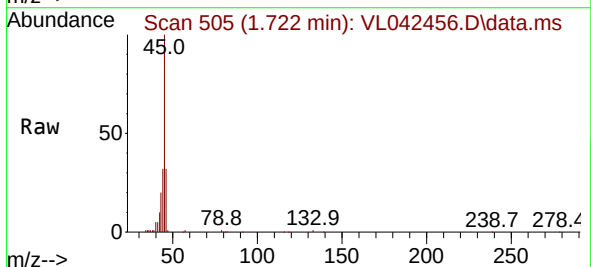
Acq: 29 Apr 2025 21:58

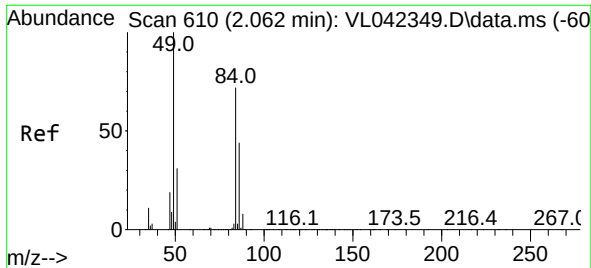
Tgt Ion: 45 Resp: 10654

Ion Ratio Lower Upper

45 100

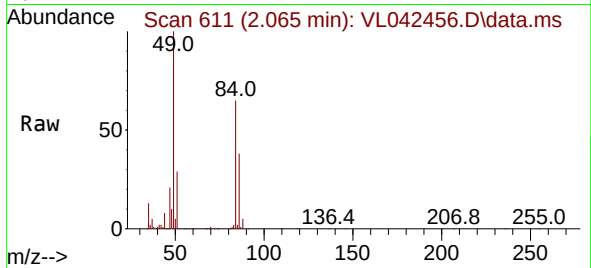
58 12.4 34.5 51.7





#20
Methylene Chloride
Concen: 8.056 ppbv
RT: 2.065 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042456.D
Acq: 29 Apr 2025 21:58

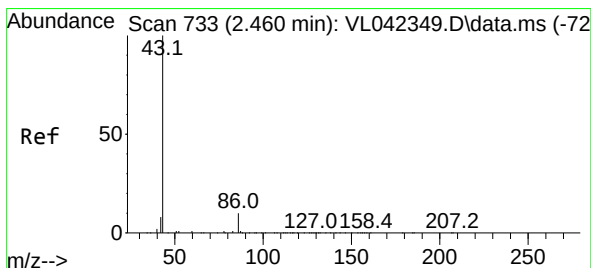
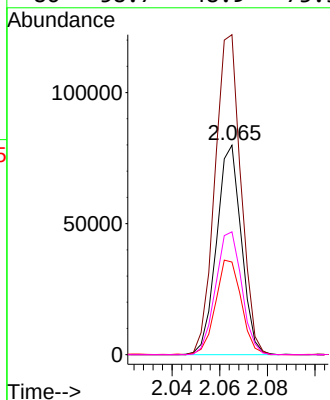
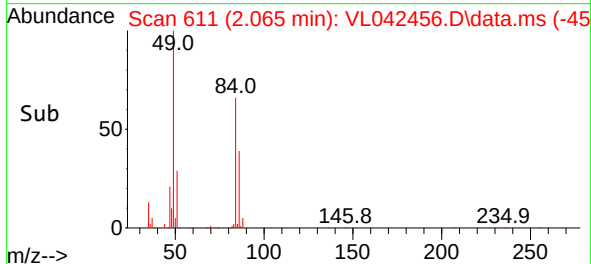
Instrument :
MSVOA_L
ClientSampleId :
B-2



Tgt Ion: 84 Resp: 57764
Ion Ratio Lower Upper
84 100
49 152.8 111.6 167.4
51 44.1 35.1 52.7
86 58.7 48.9 73.3

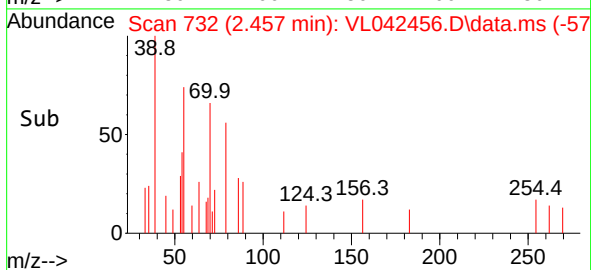
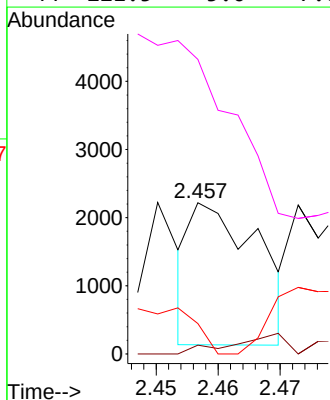
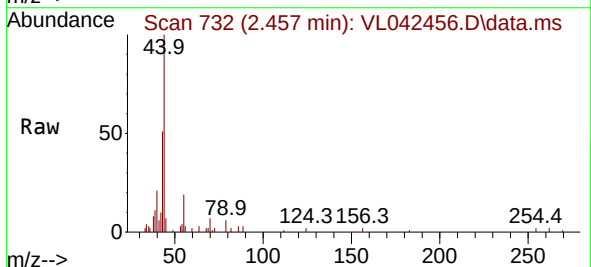
Manual Integrations
APPROVED

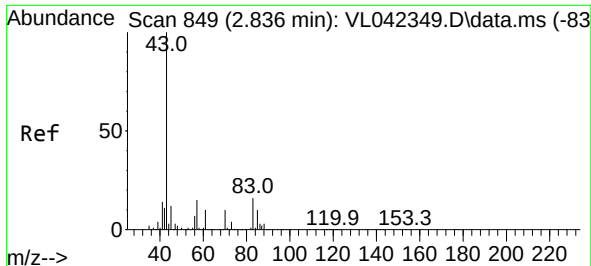
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025



#23
Vinyl Acetate
Concen: 0.215 ppbv
RT: 2.457 min Scan# 732
Delta R.T. -0.003 min
Lab File: VL042456.D
Acq: 29 Apr 2025 21:58

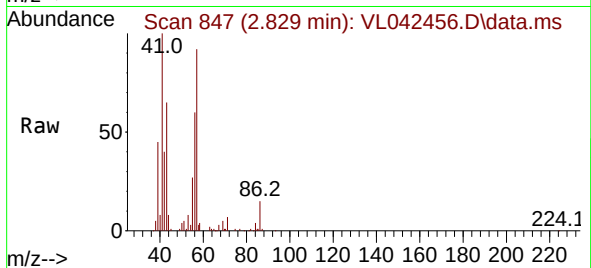
Tgt Ion: 43 Resp: 1592
Ion Ratio Lower Upper
43 100
86 12.6 6.5 9.7#
42 0.0 7.8 11.8#
44 221.5 5.0 7.6#





#25
Ethyl Acetate
Concen: 0.486 ppbv
RT: 2.829 min Scan# 847
Delta R.T. -0.007 min
Lab File: VL042456.D
Acq: 29 Apr 2025 21:58

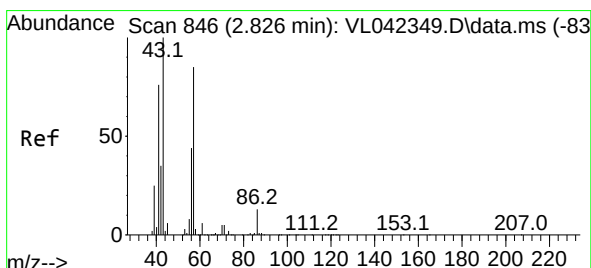
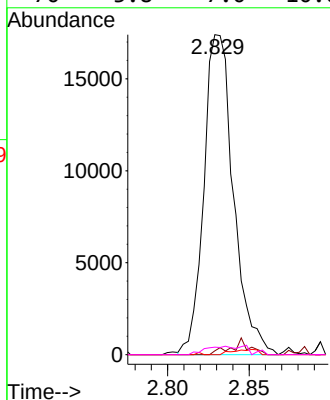
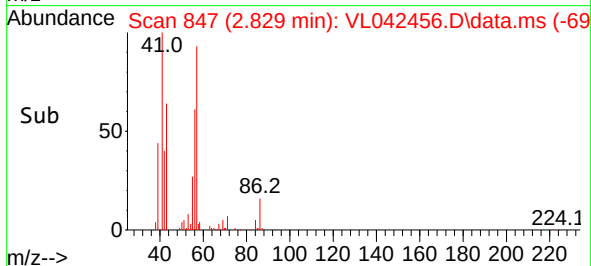
Instrument :
MSVOA_L
ClientSampleId :
B-2



Tgt Ion	Ratio	Lower	Upper
43	100		
45	3.1	8.3	12.5
61	1.4	7.3	10.9
70	3.8	7.0	10.6

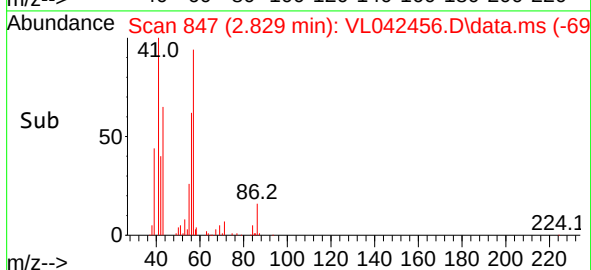
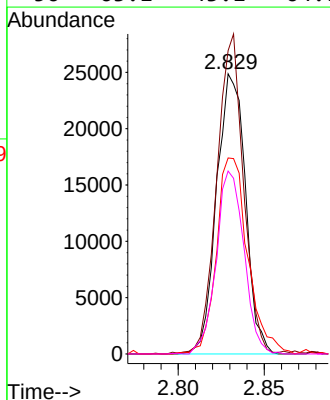
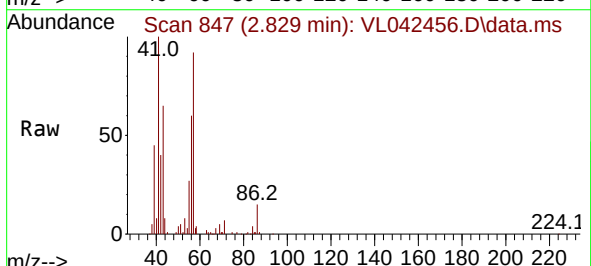
Manual Integrations
APPROVED

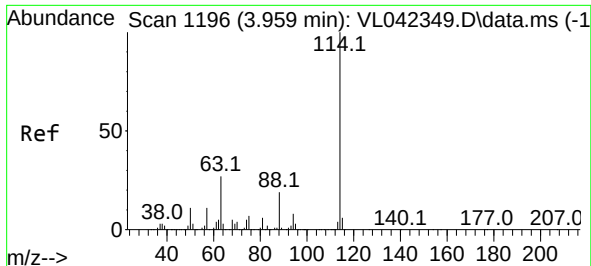
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025



#26
Hexane
Concen: 1.582 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.003 min
Lab File: VL042456.D
Acq: 29 Apr 2025 21:58

Tgt Ion	Ratio	Lower	Upper
57	100		
41	107.2	77.9	116.9
43	77.9	208.4	312.6
56	63.1	43.1	64.7





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.965 min Scan# 1196

Delta R.T. 0.006 min

Lab File: VL042456.D

Acq: 29 Apr 2025 21:58

Instrument :

MSVOA_L

ClientSampleId :

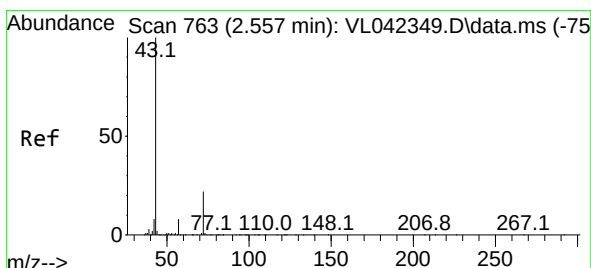
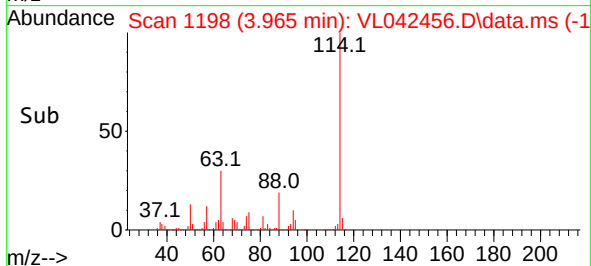
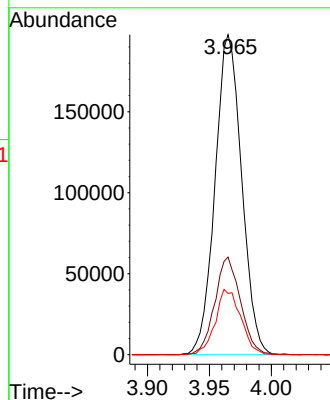
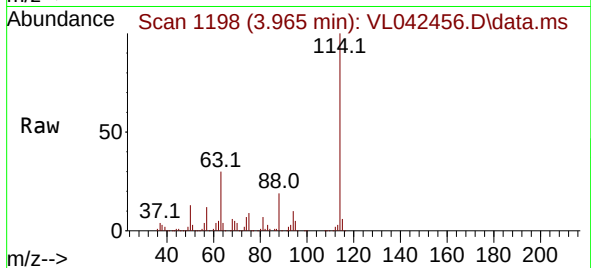
B-2

Tgt Ion:114	Resp:	295318
Ion Ratio	Lower	Upper
114	100	
63	29.6	21.8 32.6
88	19.6	15.5 23.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025



#34

2-Butanone

Concen: 0.197 ppbv

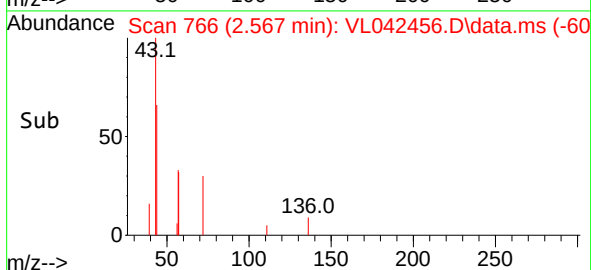
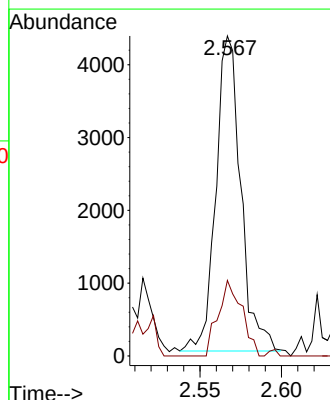
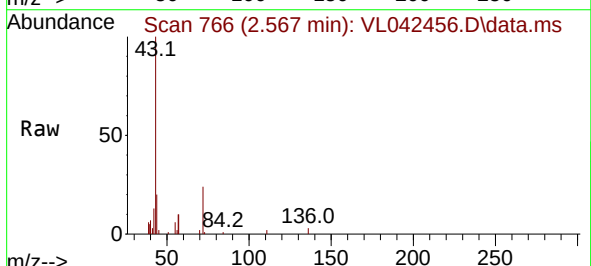
RT: 2.567 min Scan# 766

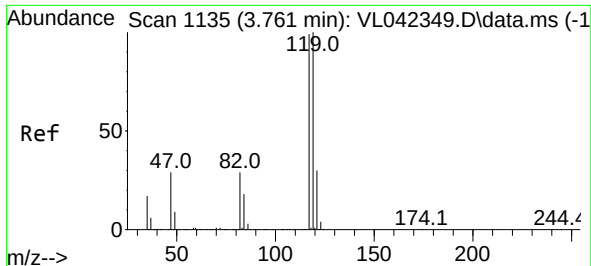
Delta R.T. 0.010 min

Lab File: VL042456.D

Acq: 29 Apr 2025 21:58

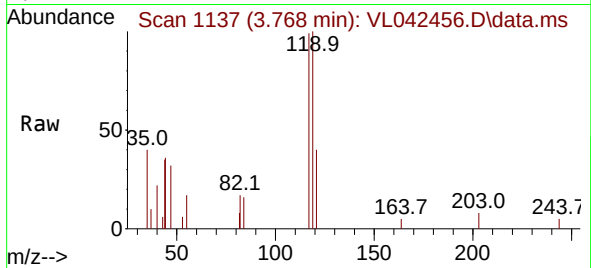
Tgt Ion: 43	Resp:	4598
Ion Ratio	Lower	Upper
43	100	
72	23.4	18.2 27.2





#35
Carbon Tetrachloride
Concen: 0.057 ppbv
RT: 3.768 min Scan# 1135
Delta R.T. 0.006 min
Lab File: VL042456.D
Acq: 29 Apr 2025 21:58

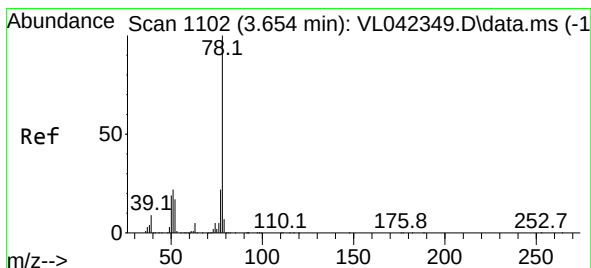
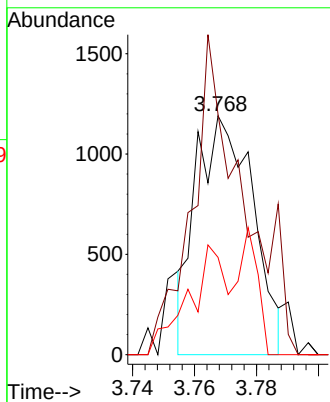
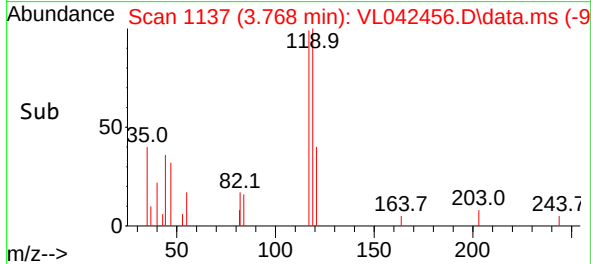
Instrument :
MSVOA_L
ClientSampleId :
B-2



Tgt Ion: 117 Resp: 1519
Ion Ratio Lower Upper
117 100
119 91.8 80.5 120.7
121 50.6 24.2 36.2

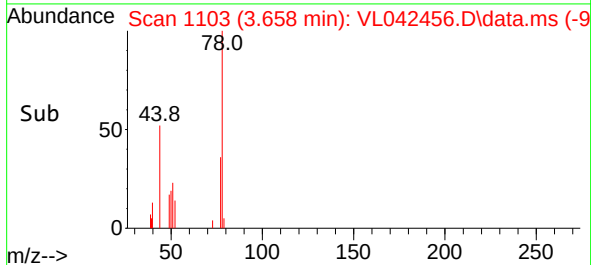
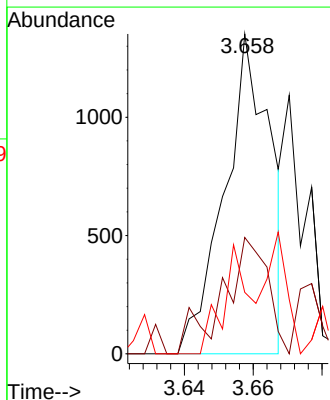
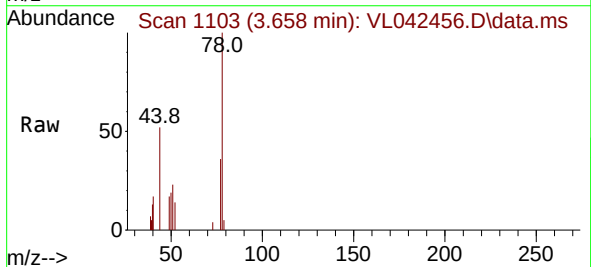
Manual Integrations
APPROVED

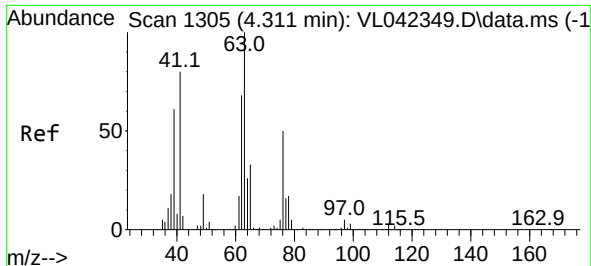
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025



#36
Benzene
Concen: 0.039 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. 0.003 min
Lab File: VL042456.D
Acq: 29 Apr 2025 21:58

Tgt Ion: 78 Resp: 1247
Ion Ratio Lower Upper
78 100
77 36.4 17.4 26.0#
50 19.2 15.5 23.3





#39

1,2-Dichloropropane

Concen: 7.335 ppbv

RT: 3.965 min Scan# 1198

Delta R.T. -0.346 min

Lab File: VL042456.D

Acq: 29 Apr 2025 21:58

Instrument :

MSVOA_L

ClientSampleId :

B-2

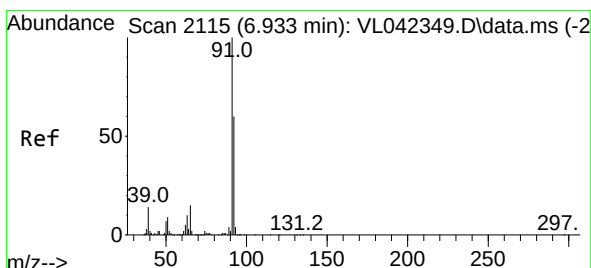
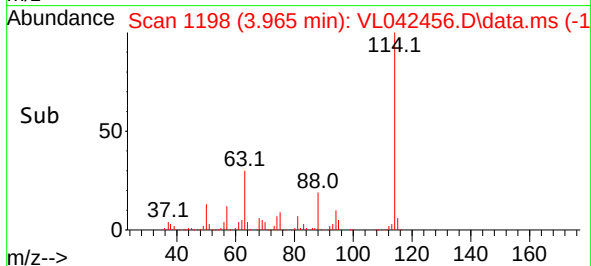
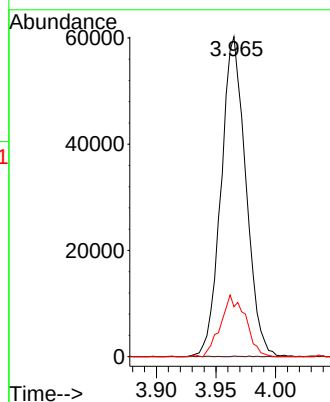
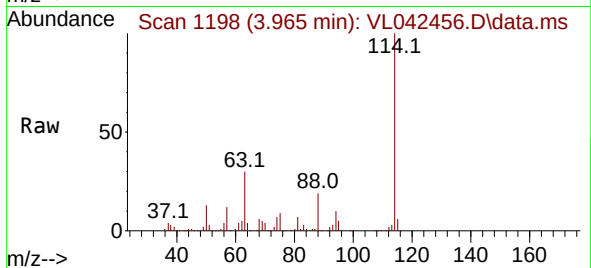
Tgt Ion: 63 Resp: 87069

Ion	Ratio	Lower	Upper
63	100		
41	0.2	64.2	96.2
62	15.6	54.3	81.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025



#53

Toluene

Concen: 0.064 ppbv

RT: 6.946 min Scan# 2119

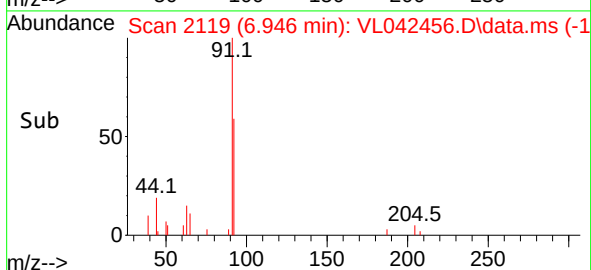
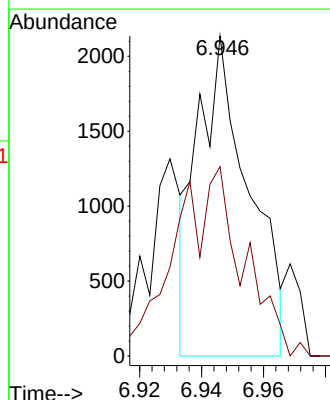
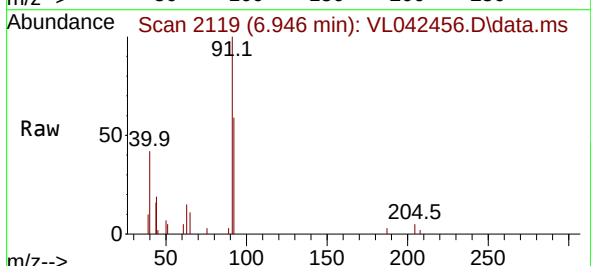
Delta R.T. 0.013 min

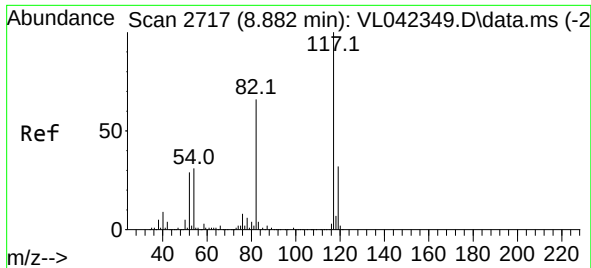
Lab File: VL042456.D

Acq: 29 Apr 2025 21:58

Tgt Ion: 91 Resp: 2460

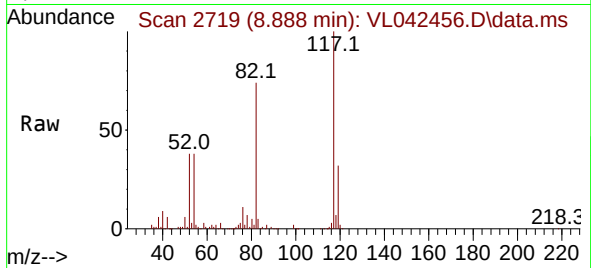
Ion	Ratio	Lower	Upper
91	100		
92	81.2	48.2	72.4





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042456.D
Acq: 29 Apr 2025 21:58

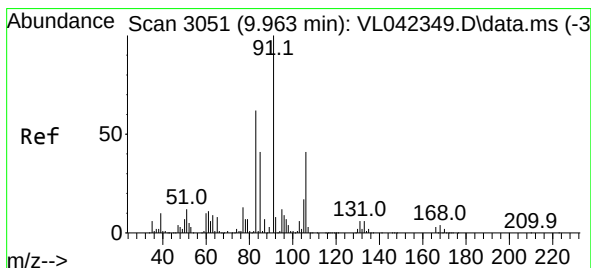
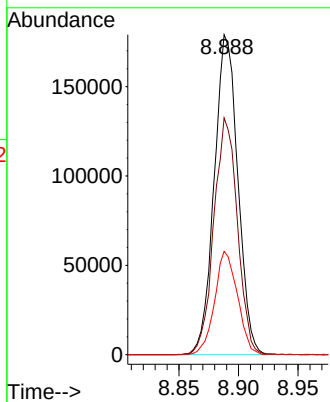
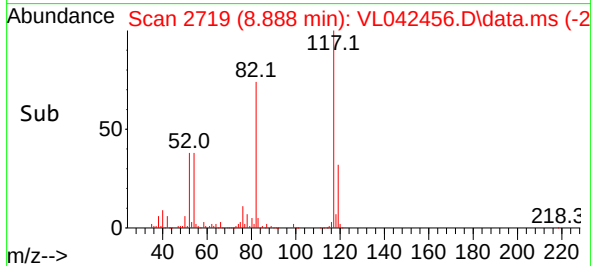
Instrument :
MSVOA_L
ClientSampleId :
B-2



Tgt Ion: 117 Resp: 24663
Ion Ratio Lower Upper
117 100
82 73.7 57.8 86.6
119 31.3 25.2 37.8

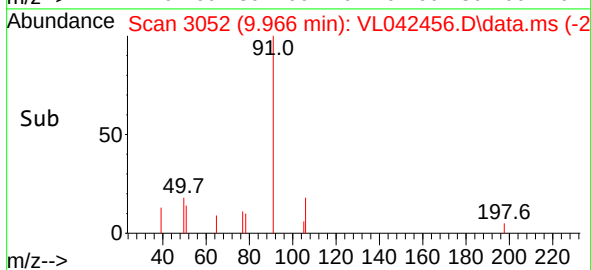
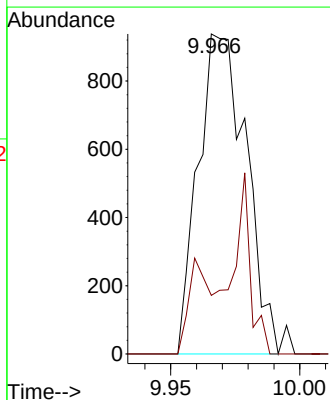
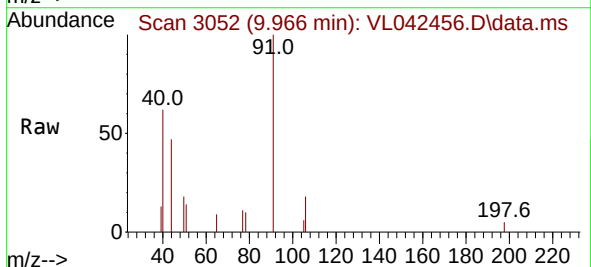
Manual Integrations
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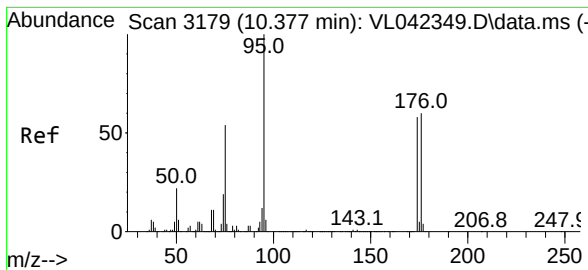
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025



#60
o-Xylene
Concen: 0.030 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.003 min
Lab File: VL042456.D
Acq: 29 Apr 2025 21:58

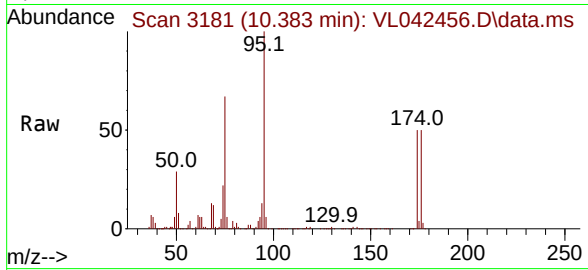
Tgt Ion: 91 Resp: 1209
Ion Ratio Lower Upper
91 100
106 34.4 21.1 63.4





#68
1-Bromo-4-Fluorobenzene
Concen: 11.341 ppbv
RT: 10.383 min Scan# 3179
Delta R.T. 0.006 min
Lab File: VL042456.D
Acq: 29 Apr 2025 21:58

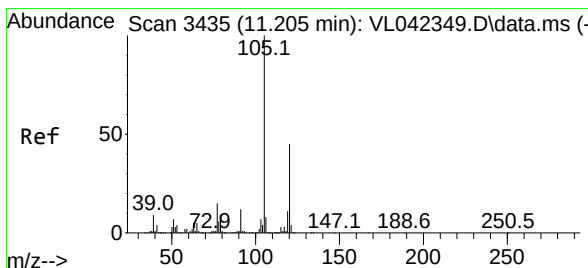
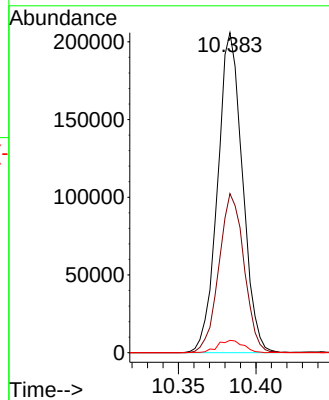
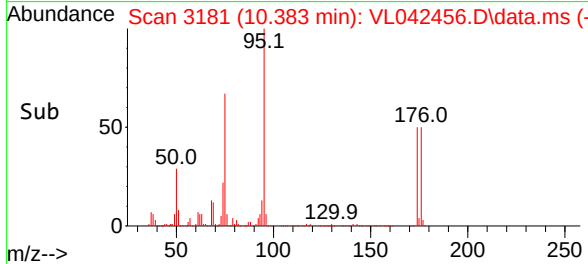
Instrument :
MSVOA_L
ClientSampleId :
B-2



Tgt Ion: 95 Resp: 22984
Ion Ratio Lower Upper
95 100
174 50.3 48.5 72.7
175 4.0 3.7 5.5

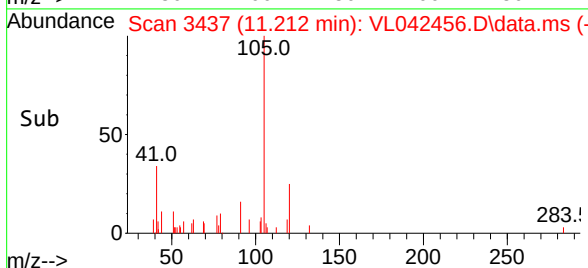
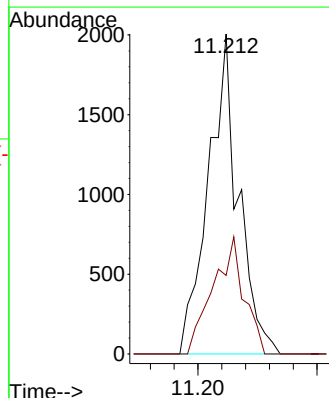
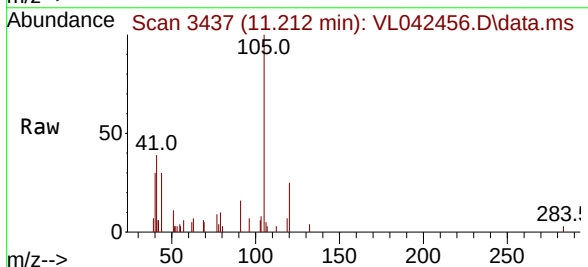
Manual Integrations
APPROVED

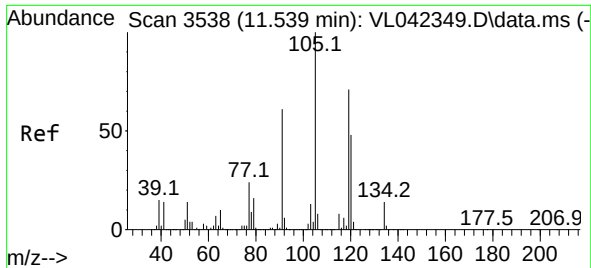
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025



#73
1,3,5-Trimethylbenzene
Concen: 0.041 ppbv
RT: 11.212 min Scan# 3437
Delta R.T. 0.006 min
Lab File: VL042456.D
Acq: 29 Apr 2025 21:58

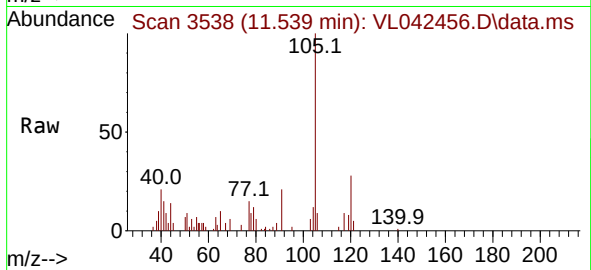
Tgt Ion:105 Resp: 1755
Ion Ratio Lower Upper
105 100
120 24.6 35.6 53.4#





#74
1,2,4-Trimethylbenzene
Concen: 0.109 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. -0.000 min
Lab File: VL042456.D
Acq: 29 Apr 2025 21:58

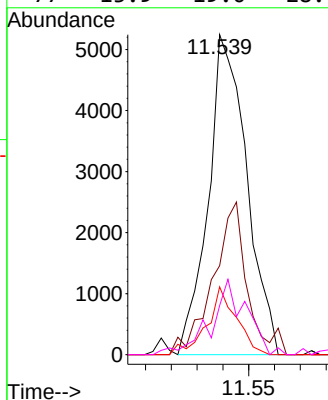
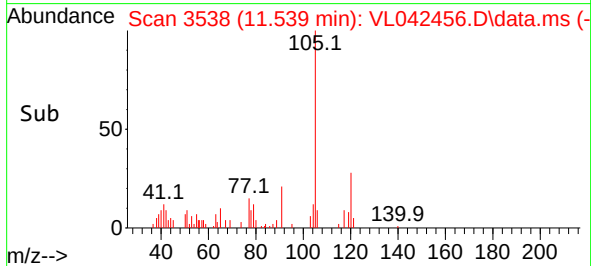
Instrument : MSVOA_L
ClientSampleId : B-2



Tgt Ion:	105	Resp:	542
Ion	Ratio	Lower	Upper
105	100		
120	22.4	38.1	57.1
91	21.2	48.8	73.2
77	13.9	19.0	28.4

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025



Report of Analysis

Client:	RMJ Environomics, Inc.	Date Collected:	04/28/25
Project:	32 Park St Orange NJ	Date Received:	04/29/25
Client Sample ID:	B-3	SDG No.:	Q1908
Lab Sample ID:	Q1908-03	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042445.D	1		04/29/25 14:19	VL042925

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.49	2.42	J	1.04	2.47	ug/m3
74-87-3	Chloromethane	0.47	0.97	J	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
74-83-9	Bromomethane	0.14	0.54	U	0.54	1.94	ug/m3
75-00-3	Chloroethane	0.17	0.45	U	0.45	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.13	0.38	U	0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.23	1.29	J	0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.16	1.23	U	1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.090	0.63	U	0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.19	0.58	U	0.58	1.52	ug/m3
142-82-5	Heptane	0.11	0.45	U	0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
67-64-1	Acetone	3.50	8.31		0.57	1.19	ug/m3
75-15-0	Carbon Disulfide	0.16	0.50	U	0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.12	0.43	U	0.43	1.80	ug/m3
75-09-2	Methylene Chloride	0.38	1.32	J	0.66	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.19	0.75	U	0.75	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02	ug/m3
110-82-7	Cyclohexane	0.22	0.76	U	0.76	1.72	ug/m3
78-93-3	2-Butanone	0.52	1.53		0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.070	0.44		0.060	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
67-66-3	Chloroform	0.080	0.39	U	0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.10	0.47	U	0.47	2.34	ug/m3
71-43-2	Benzene	0.090	0.29	U	0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.11	0.51	U	0.51	2.31	ug/m3
75-27-4	Bromodichloromethane	0.080	0.54	U	0.54	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.090	0.37	U	0.37	2.05	ug/m3
108-88-3	Toluene	0.15	0.57	J	0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.070	0.38	U	0.38	2.73	ug/m3

Report of Analysis

Client:	RMJ Environomics, Inc.	Date Collected:	04/28/25
Project:	32 Park St Orange NJ	Date Received:	04/29/25
Client Sample ID:	B-3	SDG No.:	Q1908
Lab Sample ID:	Q1908-03	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042445.D	1		04/29/25 14:19	VL042925

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.070	0.60	U	0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.070	0.54	U	0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.080	0.37	U	0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	0.12	0.52	U	0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	0.21	0.91	U	0.91	4.34	ug/m3
95-47-6	o-Xylene	0.12	0.52	U	0.52	2.17	ug/m3
100-42-5	Styrene	0.11	0.47	U	0.47	2.13	ug/m3
75-25-2	Bromoform	0.060	0.62	U	0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.010	0.070	U	0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.11	0.57	U	0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.11	0.54	U	0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.080	0.39	U	0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.050	0.30	U	0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.090	0.67	U	0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.090	0.96	U	0.96	5.33	ug/m3
106-99-0	1,3-Butadiene	0.13	0.29	U	0.29	1.11	ug/m3
91-20-3	Naphthalene	0.080	0.42	U	0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	0.12	0.59	U	0.59	2.46	ug/m3
110-54-3	Hexane	1.80	6.34		0.39	1.76	ug/m3
107-05-1	Allyl Chloride	0.15	0.47	U	0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	0.21	0.76	U	0.76	1.80	ug/m3
80-62-6	Methyl Methacrylate	0.090	0.37	U	0.37	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	11.1			70 (65) - 130 (135)	111%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	117000		2.794			
540-36-3	1,4-Difluorobenzene	304000		3.966			
3114-55-4	Chlorobenzene-d5	256000		8.889			

Report of Analysis

Client:	RMJ Environomics, Inc.	Date Collected:	04/28/25
Project:	32 Park St Orange NJ	Date Received:	04/29/25
Client Sample ID:	B-3	SDG No.:	Q1908
Lab Sample ID:	Q1908-03	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042445.D	1		04/29/25 14:19	VL042925

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

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\VL042925\
 Data File : VL042445.D
 Acq On : 29 Apr 2025 14:19
 Operator : SY/MD
 Sample : Q1908-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 B-3

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/30/2025
 Supervised By :Mahesh Dadoda 04/30/2025

Quant Time: Apr 30 01:20:52 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

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

QLast Update : Fri Apr 18 02:14:00 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.794	49	116924	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.966	114	304231	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.889	117	256038	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.381	95	232994	11.074	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	110.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	10212	0.494	ppbv	95
3) Chlorodifluoromethane	1.480	51	4938m	0.251	ppbv	
4) Chloromethane	1.535	50	3848	0.471	ppbv	94
11) Trichlorofluoromethane	1.881	101	4449	0.226	ppbv	95
13) Ethanol	1.726	45	6146	4.316	ppbv #	24
15) Acetone	1.839	43	66029	3.450	ppbv	97
19) Isopropyl Alcohol	1.891	45	5336m	0.502	ppbv	
20) Methylene Chloride	2.062	84	2823	0.377	ppbv #	81
26) Hexane	2.833	57	34265	1.794	ppbv #	30
34) 2-Butanone	2.567	43	12554	0.522	ppbv	97
35) Carbon Tetrachloride	3.775	117	1947m	0.071	ppbv	
53) Toluene	6.940	91	6054	0.154	ppbv	97

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

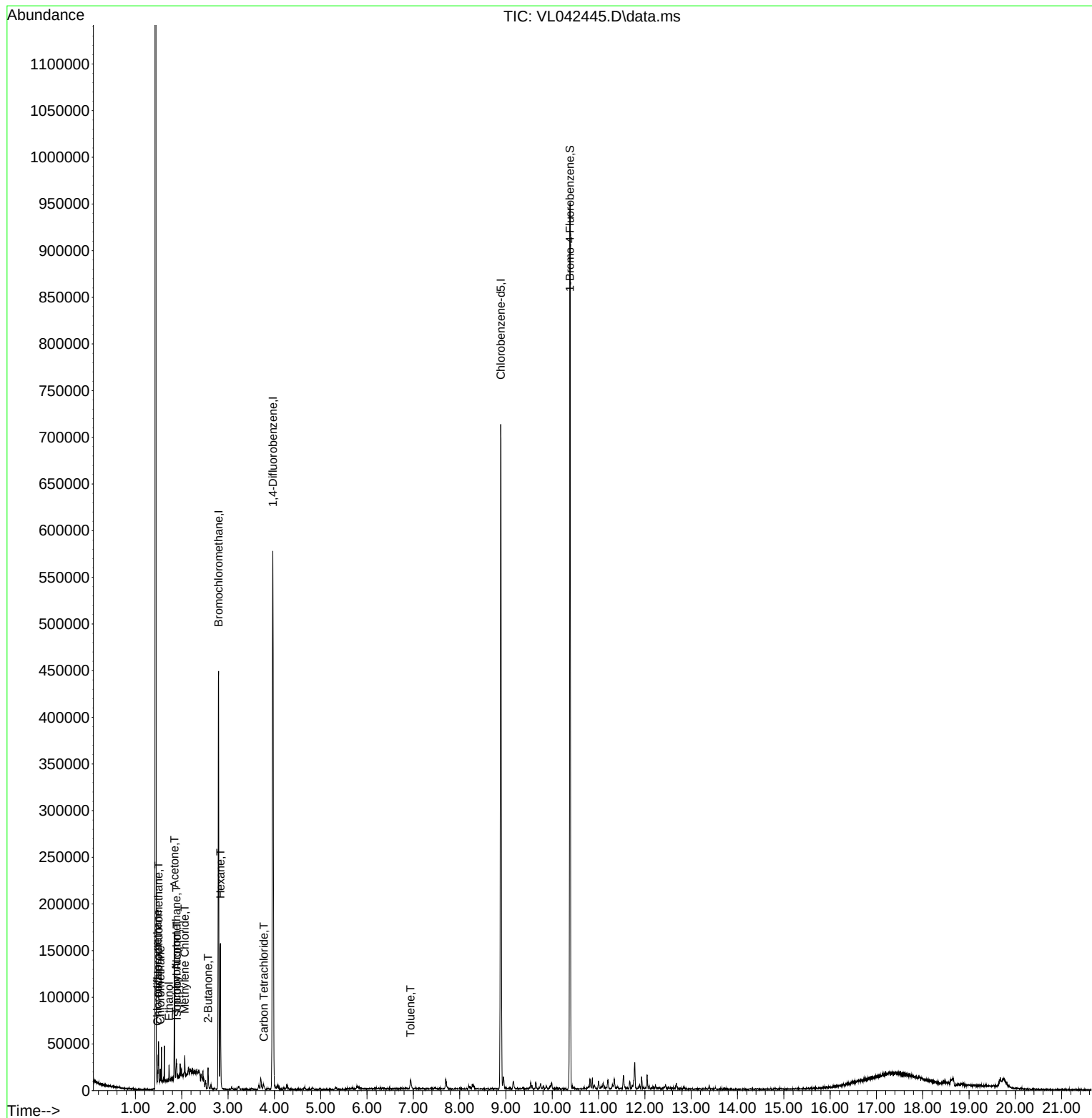
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Data File : VL042445.D
Acq On : 29 Apr 2025 14:19
Operator : SY/MD
Sample : Q1908-03
Misc : 400mL/MSVOA_L
ALS Vial : 8 Sample Multiplier: 1

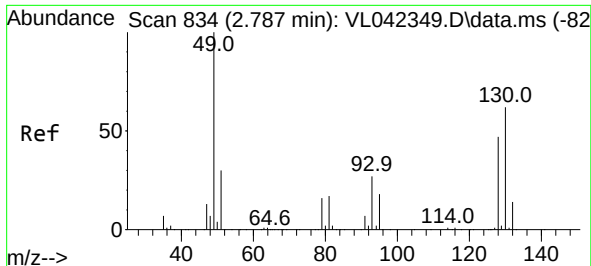
Instrument :
MSVOA_L
ClientSampleId :
B-3

Quant Time: Apr 30 01:20:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

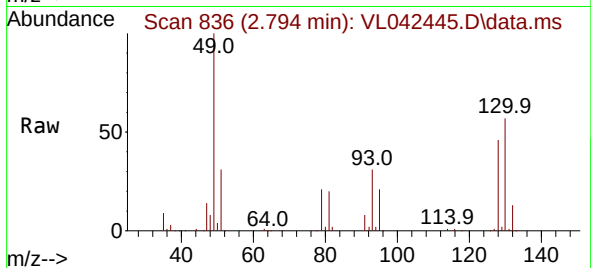
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.794 min Scan# 834
Delta R.T. 0.007 min
Lab File: VL042445.D
Acq: 29 Apr 2025 14:19

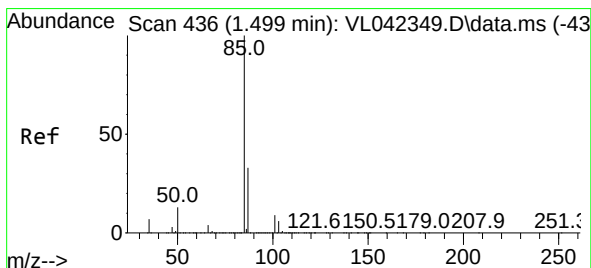
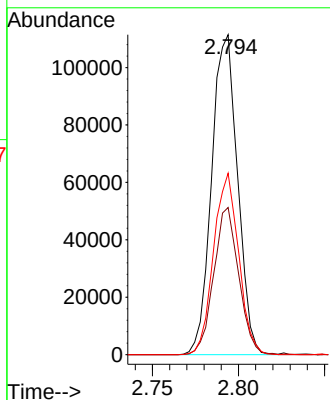
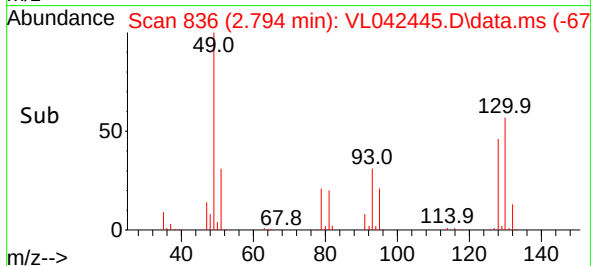
Instrument :
MSVOA_L
ClientSampleId :
B-3



Tgt Ion: 49 Resp: 116924
Ion Ratio Lower Upper
49 100
128 44.4 22.8 68.4
130 54.8 29.3 88.0

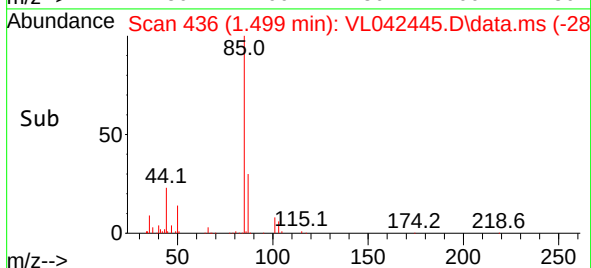
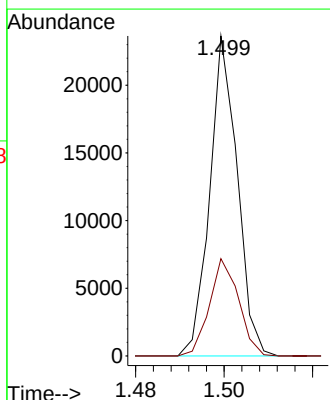
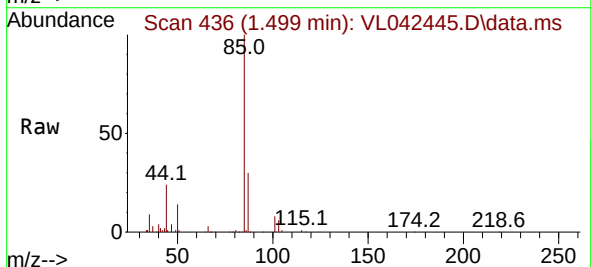
Manual Integrations
APPROVED

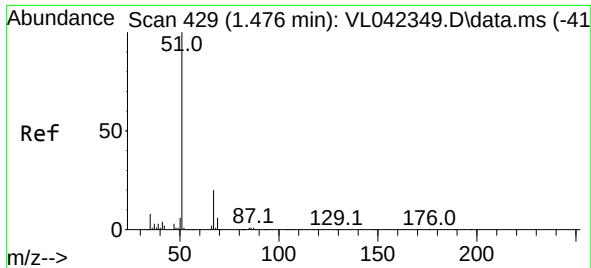
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025



#2
Dichlorodifluoromethane
Concen: 0.494 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.001 min
Lab File: VL042445.D
Acq: 29 Apr 2025 14:19

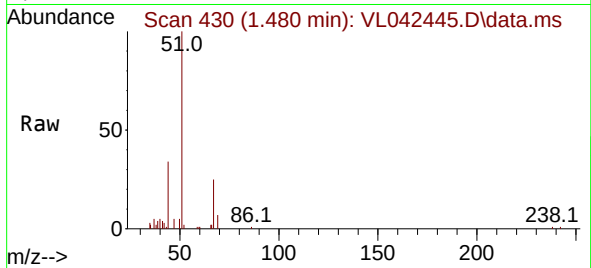
Tgt Ion: 85 Resp: 10212
Ion Ratio Lower Upper
85 100
87 30.4 26.6 39.8





#3
Chlorodifluoromethane
Concen: 0.251 ppbv m
RT: 1.480 min Scan# 41
Delta R.T. 0.004 min
Lab File: VL042445.D
Acq: 29 Apr 2025 14:19

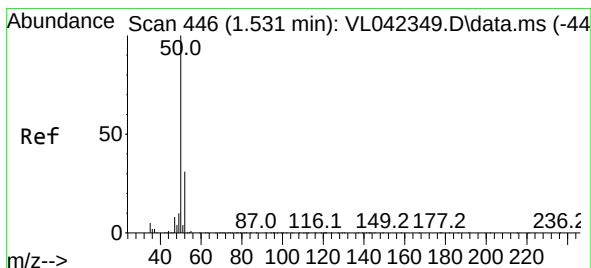
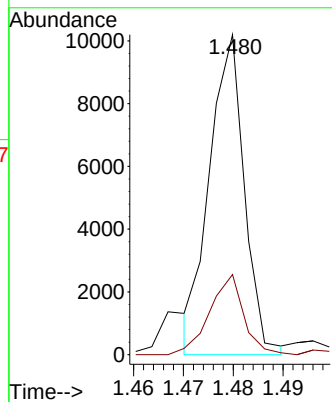
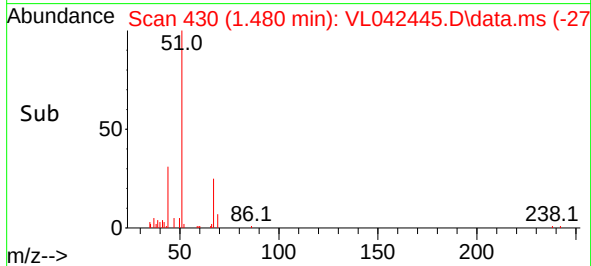
Instrument :
MSVOA_L
ClientSampleId :
B-3



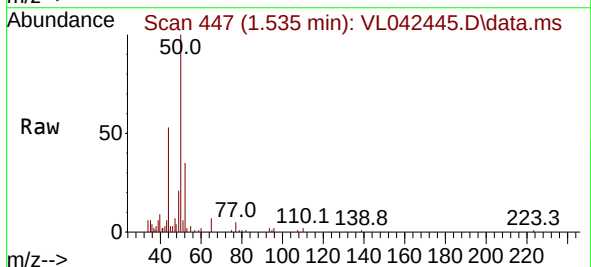
Tgt Ion: 51 Resp: 4938
Ion Ratio Lower Upper
51 100
67 27.5 16.2 24.4

Manual Integrations
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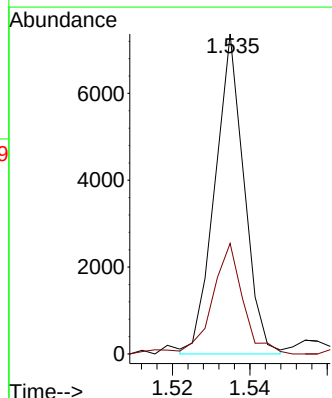
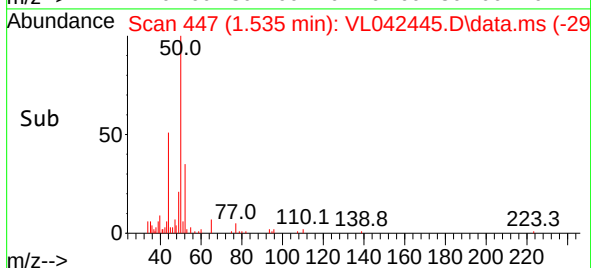
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

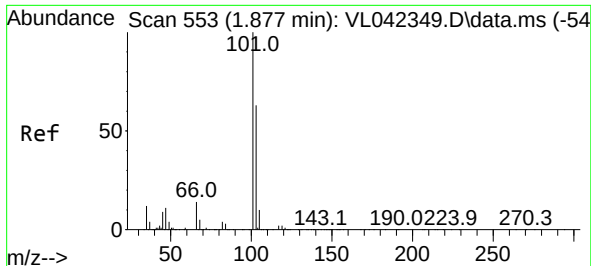


#4
Chloromethane
Concen: 0.471 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.004 min
Lab File: VL042445.D
Acq: 29 Apr 2025 14:19



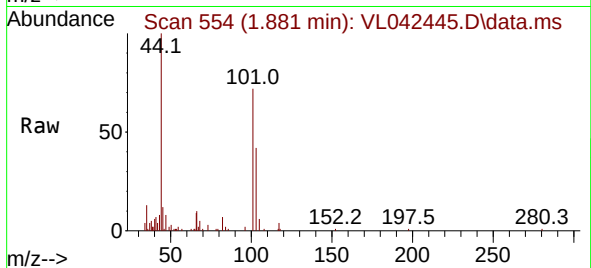
Tgt Ion: 50 Resp: 3848
Ion Ratio Lower Upper
50 100
52 34.2 24.7 37.1





#11
Trichlorofluoromethane
Concen: 0.226 ppbv
RT: 1.881 min Scan# 506
Delta R.T. 0.004 min
Lab File: VL042445.D
Acq: 29 Apr 2025 14:19

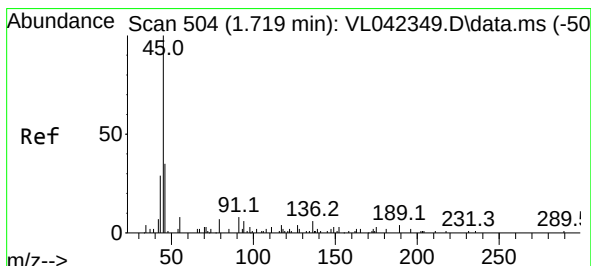
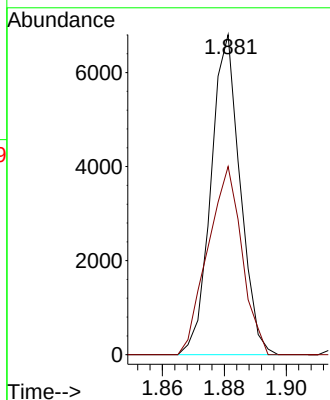
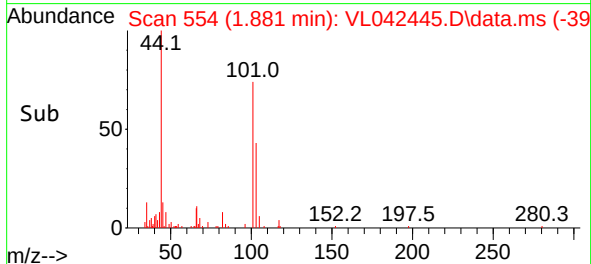
Instrument :
MSVOA_L
ClientSampleId :
B-3



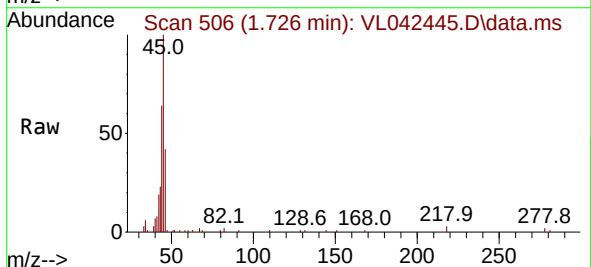
Tgt Ion:101 Resp: 4449
Ion Ratio Lower Upper
101 100
103 58.8 50.1 75.1

Manual Integrations
APPROVED

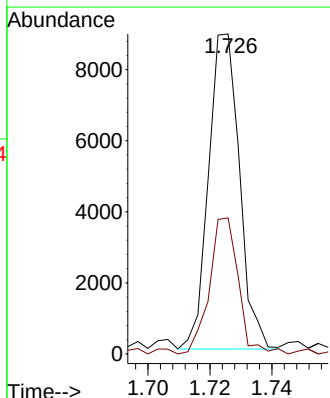
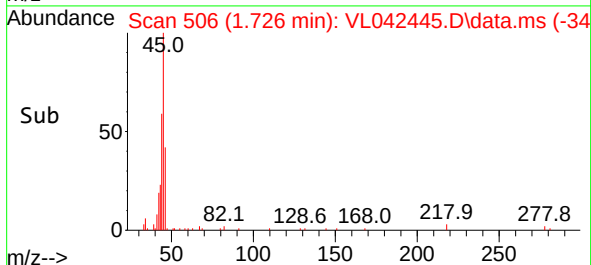
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

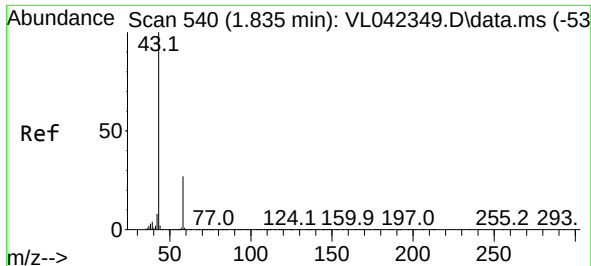


#13
Ethanol
Concen: 4.316 ppbv
RT: 1.726 min Scan# 506
Delta R.T. 0.007 min
Lab File: VL042445.D
Acq: 29 Apr 2025 14:19



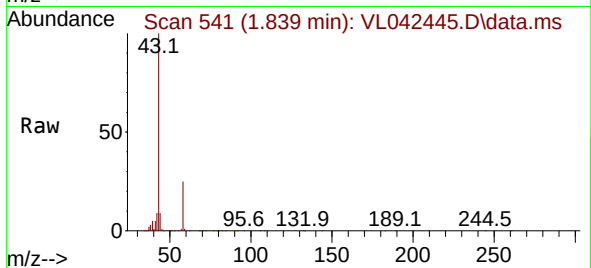
Tgt Ion: 45 Resp: 6146
Ion Ratio Lower Upper
45 100
46 0.0 21.9 87.7#





#15
Acetone
Concen: 3.450 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.004 min
Lab File: VL042445.D
Acq: 29 Apr 2025 14:19

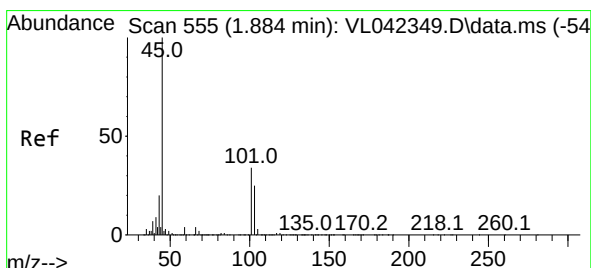
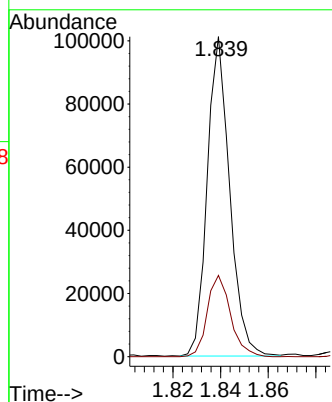
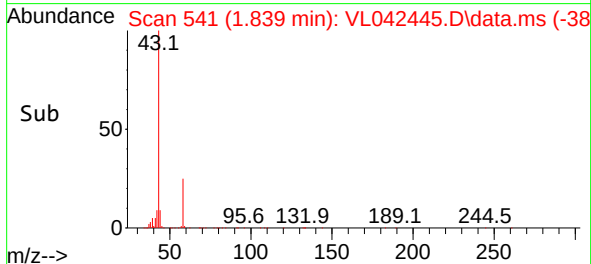
Instrument :
MSVOA_L
ClientSampleId :
B-3



Tgt Ion: 43 Resp: 66029
Ion Ratio Lower Upper
43 100
58 26.4 22.4 33.6

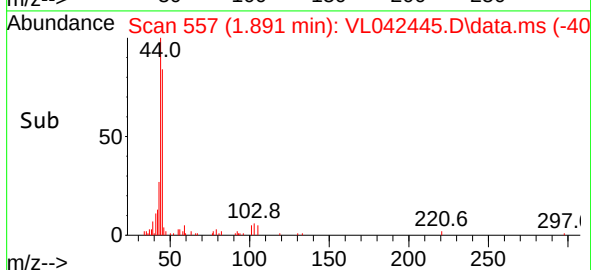
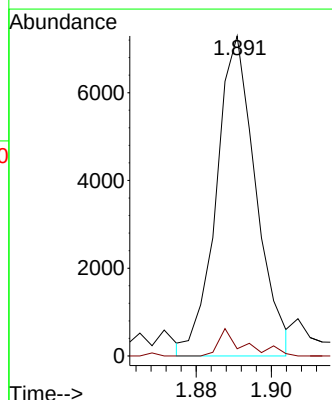
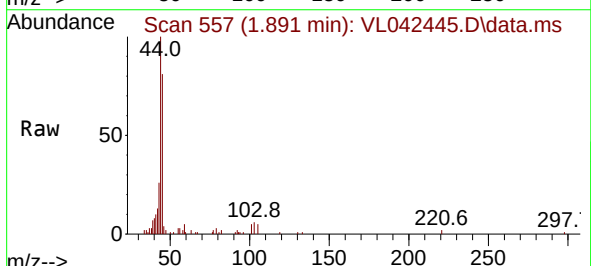
Manual Integrations
APPROVED

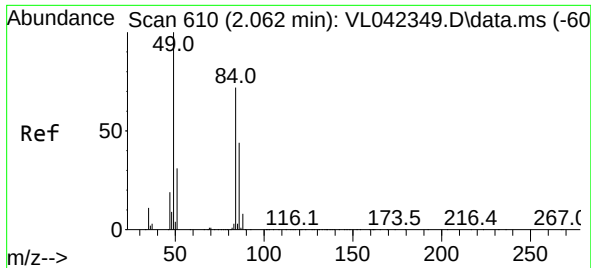
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025



#19
Isopropyl Alcohol
Concen: 0.502 ppbv m
RT: 1.891 min Scan# 557
Delta R.T. 0.007 min
Lab File: VL042445.D
Acq: 29 Apr 2025 14:19

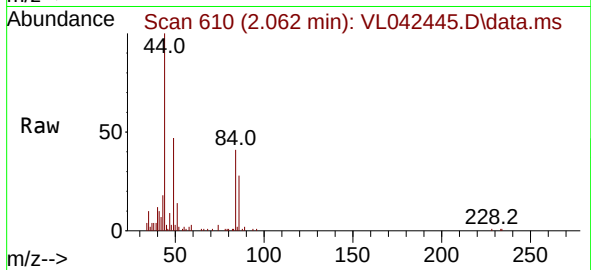
Tgt Ion: 45 Resp: 5336
Ion Ratio Lower Upper
45 100
58 22.2 34.5 51.7#





#20
Methylene Chloride
Concen: 0.377 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042445.D
Acq: 29 Apr 2025 14:19

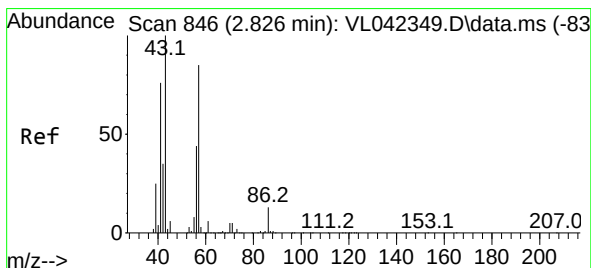
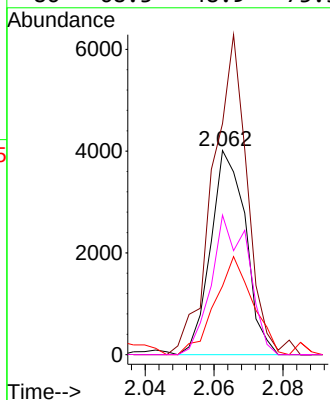
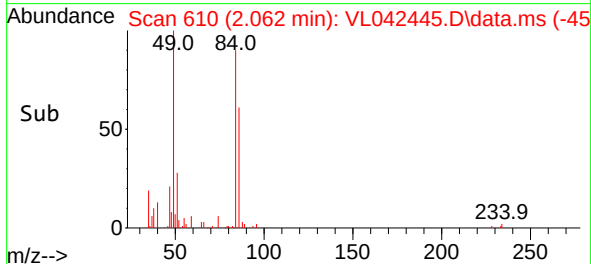
Instrument :
MSVOA_L
ClientSampleId :
B-3



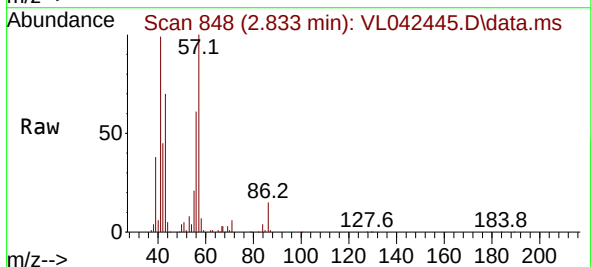
Tgt Ion	Ratio	Lower	Upper
84	100		
49	110.9	111.6	167.4
51	33.6	35.1	52.7
86	68.3	48.9	73.3

Manual Integrations
APPROVED

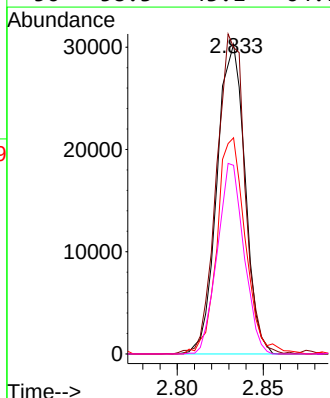
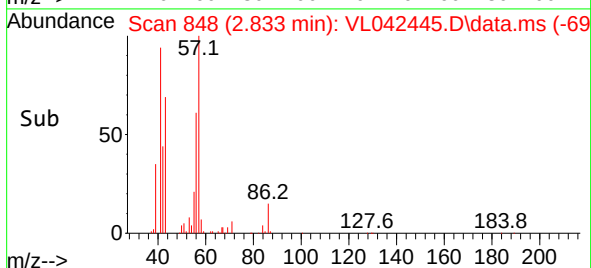
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

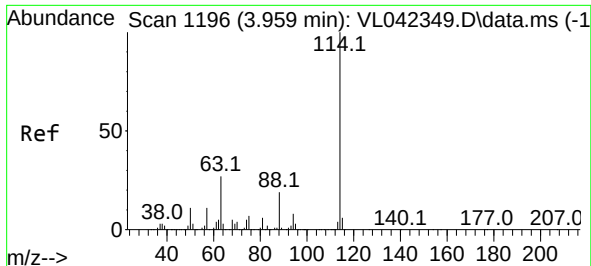


#26
Hexane
Concen: 1.794 ppbv
RT: 2.833 min Scan# 848
Delta R.T. 0.007 min
Lab File: VL042445.D
Acq: 29 Apr 2025 14:19



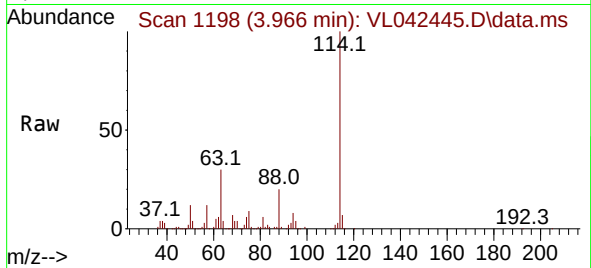
Tgt Ion	Ratio	Lower	Upper
57	100		
41	105.5	77.9	116.9
43	70.9	208.4	312.6
56	58.3	43.1	64.7





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.966 min Scan# 1196
Delta R.T. 0.007 min
Lab File: VL042445.D
Acq: 29 Apr 2025 14:19

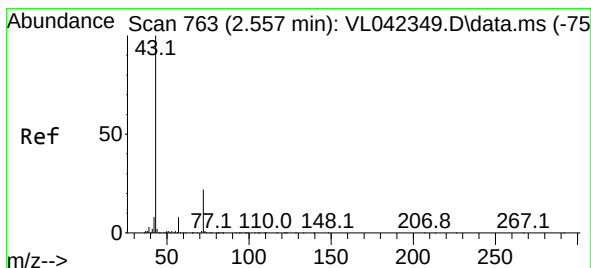
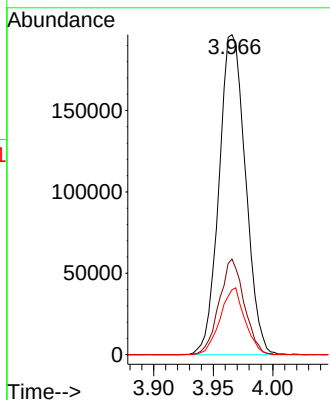
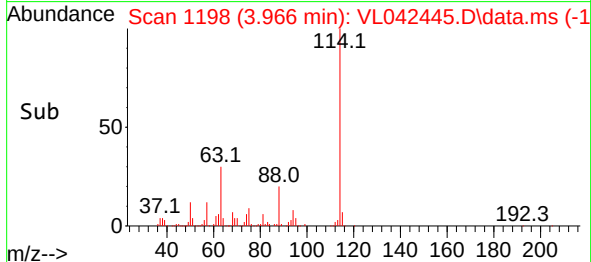
Instrument :
MSVOA_L
ClientSampleId :
B-3



Tgt Ion:114 Resp: 30423
Ion Ratio Lower Upper
114 100
63 28.3 21.8 32.6
88 19.6 15.5 23.3

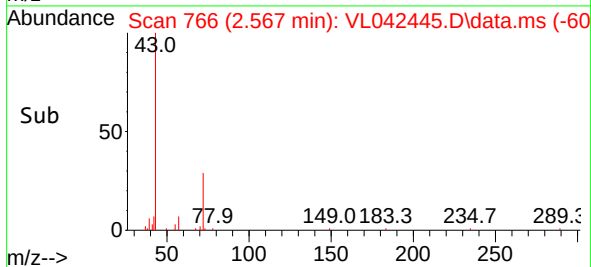
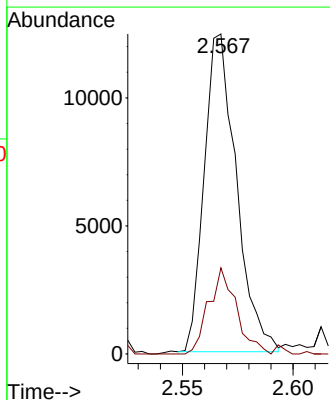
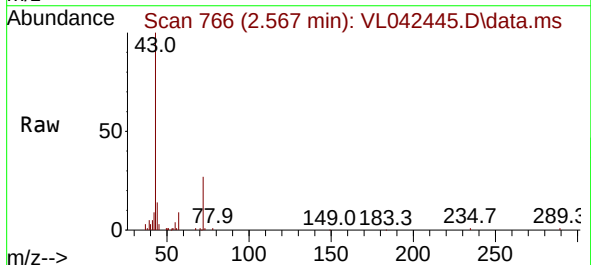
Manual Integrations
APPROVED

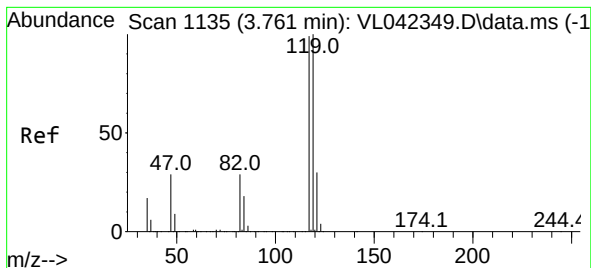
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025



#34
2-Butanone
Concen: 0.522 ppbv
RT: 2.567 min Scan# 766
Delta R.T. 0.010 min
Lab File: VL042445.D
Acq: 29 Apr 2025 14:19

Tgt Ion: 43 Resp: 12554
Ion Ratio Lower Upper
43 100
72 24.2 18.2 27.2





#35

Carbon Tetrachloride

Concen: 0.071 ppbv m

RT: 3.775 min Scan# 1135

Delta R.T. 0.013 min

Lab File: VL042445.D

Acq: 29 Apr 2025 14:19

Instrument :

MSVOA_L

ClientSampleId :

B-3

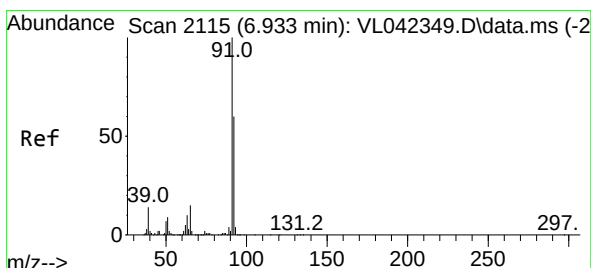
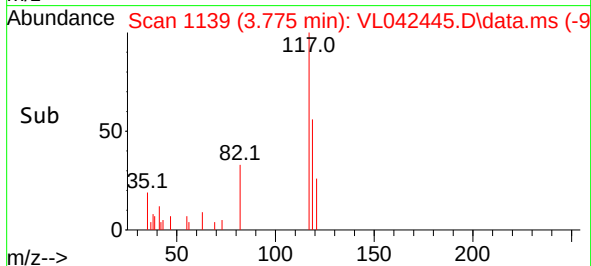
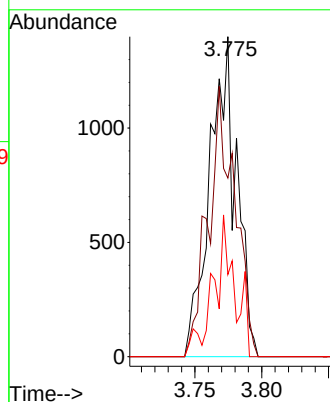
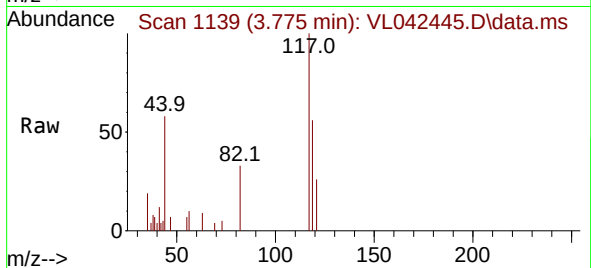
Tgt Ion:117	Resp:	194
Ion	Ratio	Lower Upper
117	100	
119	55.8	80.5 120.7
121	25.7	24.2 36.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/30/2025

Supervised By :Mahesh Dadoda 04/30/2025



#53

Toluene

Concen: 0.154 ppbv

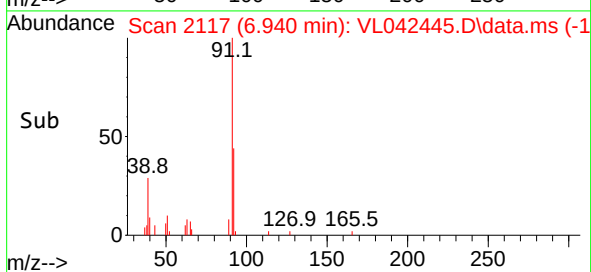
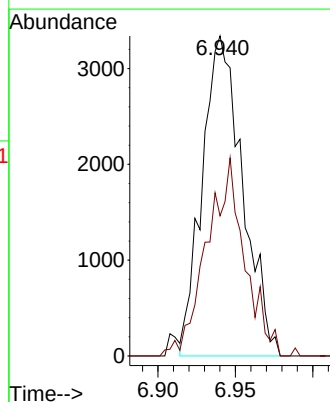
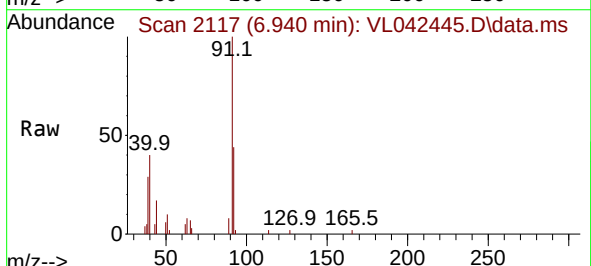
RT: 6.940 min Scan# 2117

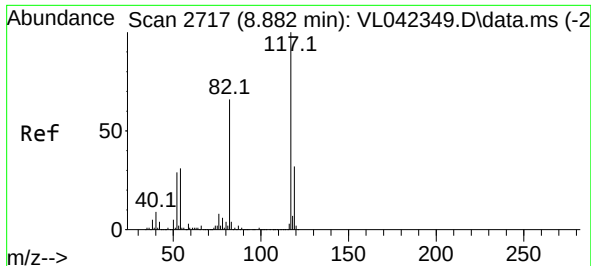
Delta R.T. 0.007 min

Lab File: VL042445.D

Acq: 29 Apr 2025 14:19

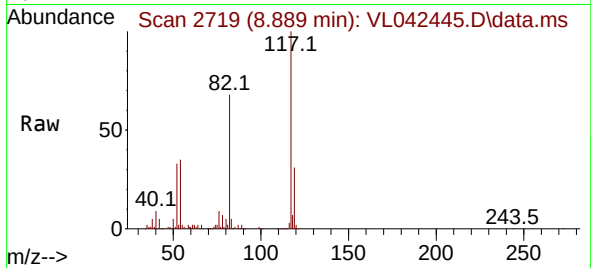
Tgt Ion: 91	Resp:	6054
Ion	Ratio	Lower Upper
91	100	
92	58.1	48.2 72.4





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.889 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL042445.D
Acq: 29 Apr 2025 14:19

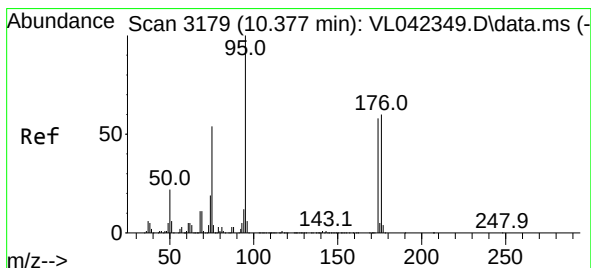
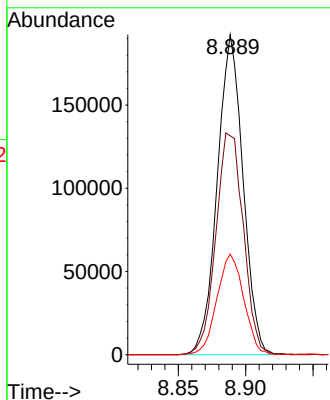
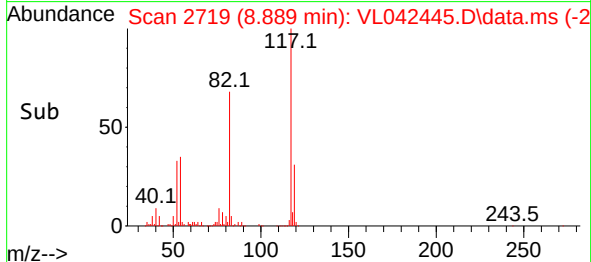
Instrument :
MSVOA_L
ClientSampleId :
B-3



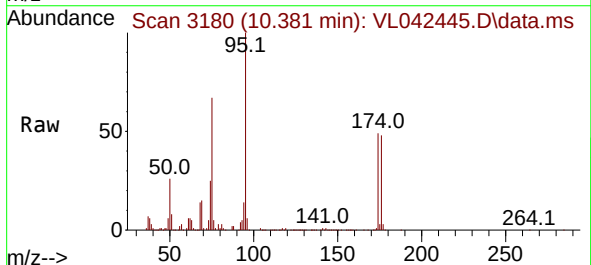
Tgt Ion: 117 Resp: 256038
Ion Ratio Lower Upper
117 100
82 73.8 57.8 86.6
119 32.7 25.2 37.8

Manual Integrations
APPROVED

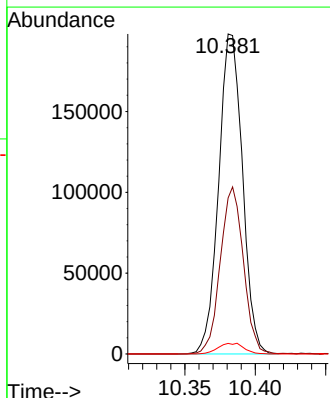
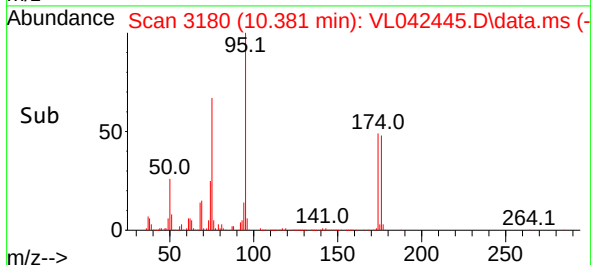
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 11.074 ppbv
RT: 10.381 min Scan# 3180
Delta R.T. 0.004 min
Lab File: VL042445.D
Acq: 29 Apr 2025 14:19



Tgt Ion: 95 Resp: 232994
Ion Ratio Lower Upper
95 100
174 50.6 48.5 72.7
175 3.6 3.7 5.5





CALIBRATION SUMMARY

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: RMJE02

Lab Code: CHEM Case No.: Q1908 SAS No.: Q1908 SDG No.: Q1908

Instrument ID: MSVOA_L Calibration Date(s): 04/17/2025 04/17/2025

Heated Purge: (Y/N) N Calibration Time(s): 09:44 12:54

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

LAB FILE ID:		RRF010 = VL042349.D		RRF002 = VL042350.D		RRF001 = VL042351.D		
		RRF0.5 = VL042352.D		RRF0.1 = VL042353.D		RRF.03 = VL042354.D		
COMPOUND	RRF010	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	RRF	% RSD
Dichlorodifluoromethane	1.658	1.827	1.837	1.831			1.767	5
Chloromethane	0.652	0.701	0.725	0.752			0.699	5.9
Vinyl Chloride	0.638	0.689	0.709	0.731	0.911	1.002	0.761	18.4
Bromomethane	0.304	0.300	0.330	0.397			0.327	12.6
Chloroethane	0.253	0.280	0.287	0.303			0.275	7.8
Tetrahydrofuran	0.409	0.468	0.480	0.518			0.461	9.2
Trichlorofluoromethane	1.567	1.746	1.806	1.684			1.680	6
1,1,2-Trichlorotrifluoroethane	1.281	1.437	1.439	1.389			1.374	5.1
Dichlorotetrafluoroethane	1.432	1.581	1.550	1.556			1.517	4.3
tert-Butyl alcohol	1.804	2.103	2.132	2.263			2.029	9.8
Heptane	1.884	2.209	2.296	2.444			2.153	11.1
1,1-Dichloroethene	0.583	0.637	0.635	0.735			0.642	8.8
Acetone	1.263	1.743	1.895	1.968			1.637	20
Carbon Disulfide	1.668	1.785	1.670	1.903			1.749	5.6
Methyl tert-Butyl Ether	0.940	1.132	1.141	1.134			1.070	8.6
Methylene Chloride	0.498	0.582	0.728	0.875			0.641	24.7
trans-1,2-Dichloroethene	0.664	0.736	0.759	0.814			0.731	8.3
1,1-Dichloroethane	1.284	1.383	1.469	1.452			1.388	5.4
Cyclohexane	1.252	1.347	1.333	1.422			1.320	5.5
2-Butanone	0.687	0.818	0.826	0.886			0.791	9.9
Carbon Tetrachloride	0.770	0.847	0.830	0.832	0.914	1.319	0.905	20.7
cis-1,2-Dichloroethene	1.459	1.593	1.603	1.588			1.553	3.9
Chloroform	2.145	2.392	2.333	2.458			2.309	5.5
1,1,1-Trichloroethane	2.274	2.493	2.549	2.557	2.840	3.110	2.599	11
2,2,4-Trimethylpentane	1.708	1.962	1.916	1.935			1.863	5.8
Benzene	1.002	1.121	1.075	1.146			1.079	5.3
1,2-Dichloroethane	0.592	0.666	0.647	0.691			0.647	5.6
Trichloroethene	0.395	0.447	0.448	0.443	0.505	0.643	0.471	17.6
1,2-Dichloropropane	0.370	0.405	0.413	0.441			0.402	7
Bromodichloromethane	0.852	0.912	0.909	0.943			0.901	3.7

* 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.

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name:	<u>CHEMTECH</u>	Contract:	<u>RMJE02</u>
Lab Code:	<u>CHEM</u>	Case No.:	<u>Q1908</u>
Instrument ID:	<u>MSVOA_L</u>	SAS No.:	<u>Q1908</u>
Heated Purge: (Y/N)	<u>N</u>	SDG No.:	<u>Q1908</u>
GC Column:	<u>RTX-1</u>	Calibration Date(s):	<u>04/17/2025</u>
ID:	<u>0.32 (mm)</u>	Calibration Time(s):	<u>09:44</u>
			<u>12:54</u>

LAB FILE ID:		RRF010 = VL042349.D		RRF002 = VL042350.D		RRF001 = VL042351.D		
		RRF0.5 = VL042352.D		RRF0.1 = VL042353.D		RRF.03 = VL042354.D		
COMPOUND	RRF010	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	RRF	% RSD
4-Methyl-2-Pentanone	1.082	1.435	1.382	1.541			1.314	15.1
Toluene	1.193	1.370	1.295	1.371			1.294	6
t-1,3-Dichloropropene	0.459	0.509	0.510	0.514			0.497	4.6
cis-1,3-Dichloropropene	0.570	0.637	0.617	0.613			0.608	4.1
1,1,2-Trichloroethane	0.376	0.420	0.429	0.423			0.410	5.3
Dibromochloromethane	0.679	0.746	0.721	0.743			0.723	3.7
1,2-Dibromoethane	0.539	0.606	0.605	0.582	0.621		0.586	5.3
Tetrachloroethene	0.357	0.391	0.393	0.420	0.452	0.543	0.417	15.5
Chlorobenzene	0.956	1.068	1.067	1.129			1.040	6.8
Ethyl Benzene	1.832	2.068	2.088	2.029			1.981	5.7
m/p-Xylene	1.456	1.658	1.682	1.685			1.596	6.9
o-Xylene	1.442	1.668	1.697	1.740			1.607	8.3
Styrene	0.726	0.808	0.776	0.792			0.767	4.7
Bromoform	0.616	0.675	0.623	0.622			0.633	3.8
1,1,2,2-Tetrachloroethane	0.873	0.968	0.985	0.990	1.176	1.407	1.042	18.1
2-Chlorotoluene	1.695	1.920	1.924	1.972			1.851	6.7
1,3,5-Trimethylbenzene	1.517	1.841	1.851	1.894			1.735	10.2
1,2,4-Trimethylbenzene	1.671	2.168	2.245	2.348			2.026	15.7
1,3-Dichlorobenzene	0.948	1.119	1.121	1.119			1.053	8.6
1,4-Dichlorobenzene	0.944	1.122	1.115	1.138			1.059	8.7
1,2-Dichlorobenzene	0.904	1.114	1.093	1.085			1.024	9.9
1,2,4-Trichlorobenzene	0.905	1.224	1.117	1.026			1.040	12.8
Hexachloro-1,3-Butadiene	0.863	1.135	1.136	1.163			1.034	14.7
1,3-Butadiene	0.651	0.735	0.836	1.015			0.783	18.9
Naphthalene	2.004	2.909	2.756	2.395	2.433		2.423	15.1
4-Ethyltoluene	1.765	2.054	2.118	2.055			1.965	7.9
1-Bromo-4-Fluorobenzene	0.831	0.822	0.818	0.824	0.814	0.819	0.822	0.7
Hexane	1.424	1.625	1.719	1.899			1.633	11.5
Allyl Chloride	0.973	1.110	1.213	1.276			1.130	10.4
1,4-Dioxane	181.866	232.301	242.757	262.618			220.893	16.3

* 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.

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: RMJE02
 Lab Code: CHEM Case No.: Q1908 SAS No.: Q1908 SDG No.: Q1908
 Instrument ID: MSVOA_L Calibration Date(s): 04/17/2025 04/17/2025
 Heated Purge: (Y/N) N Calibration Time(s): 09:44 12:54
 GC Column: RTX-1 ID: 0.32 (mm)

LAB FILE ID:								
RRF010 = VL042349.D			RRF002 = VL042350.D			RRF001 = VL042351.D		
RRF0.5 = VL042352.D			RRF0.1 = VL042353.D			RRF.03 = VL042354.D		
COMPOUND	RRF010	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	RRF	% RSD
Methyl Methacrylate	0.430	0.495	0.520	0.545			0.486	10.2

* 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 : VL041725AIR.M

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

Last Update : Fri Apr 18 02:14:00 2025

Response Via : Initial Calibration

Calibration Files

0.03=VL042354.D 0.1 =VL042353.D 0.5 =VL042352.D 1 =VL042351.D 2 =VL042350.D 10 =VL042349.D 15 =VL042355.D

Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD

1) I Bromochloromethane	-----ISTD-----								
2) T Dichlorodifluo...			1.831	1.837	1.827	1.658	1.682	1.767	5.05
3) Chlorodifluoro...			1.876	1.657	1.698	1.573	1.608	1.682	7.01
4) Chloromethane			0.752	0.725	0.701	0.652	0.665	0.699	5.93
5) T Vinyl Chloride	1.002	0.911	0.731	0.709	0.689	0.638	0.647	0.761	18.39
6) T Bromomethane			0.397	0.330	0.300	0.304	0.303	0.327	12.56
7) Chloroethane			0.303	0.287	0.280	0.253	0.255	0.275	7.76
8) T Dichlorotetra...			1.556	1.550	1.581	1.432	1.465	1.517	4.25
9) T Propene			0.880	0.797	0.758	0.690	0.707	0.766	9.95
10) T Heptane			2.444	2.296	2.209	1.884	1.931	2.153	11.14
11) T Trichlorofluor...			1.684	1.806	1.746	1.567	1.597	1.680	5.95
12) T 1,1,2-Trichlor...			1.389	1.439	1.437	1.281	1.323	1.374	5.11
13) Ethanol			0.275	0.139	0.123	0.035	0.036	0.122	80.54
14) T Bromoethene			0.537	0.545	0.530	0.490	0.487	0.518	5.24
15) T Acetone			1.968	1.895	1.743	1.263	1.316	1.637	20.03
16) T 1,3-Butadiene			1.015	0.836	0.735	0.651	0.678	0.783	18.90
17) tert-Butyl alc...			2.263	2.132	2.103	1.804	1.841	2.029	9.76
18) T 1,1-Dichloroet...			0.735	0.635	0.637	0.583	0.618	0.642	8.79
19) T Isopropyl Alcohol			1.050	0.980	0.897	0.821	0.798	0.909	11.66
20) T Methylene Chlo...			0.875	0.728	0.582	0.498	0.523	0.641	24.71
21) T Allyl Chloride			1.276	1.213	1.110	0.973	1.080	1.130	10.44
22) T trans-1,2-Dich...			0.814	0.759	0.736	0.664	0.681	0.731	8.32
23) T Vinyl Acetate			0.656	0.744	0.749	0.555	0.610	0.663	12.72
24) T 1,1-Dichloroet...			1.452	1.469	1.383	1.284	1.352	1.388	5.43
25) T Ethyl Acetate			4.428	4.147	4.118	3.677	3.812	4.036	7.34
26) T Hexane			1.899	1.719	1.625	1.424	1.499	1.633	11.45
27) T Carbon Disulfide			1.903	1.670	1.785	1.668	1.718	1.749	5.63
28) T Methyl tert-Bu...			1.134	1.141	1.132	0.940	1.004	1.070	8.64
29) T Chloroform			2.458	2.333	2.392	2.145	2.215	2.309	5.54
30) T Cyclohexane			1.422	1.333	1.347	1.252	1.249	1.320	5.50
31) T cis-1,2-Dichlo...			1.588	1.603	1.593	1.459	1.522	1.553	3.95
32) T 1,1,1-Trichlor...	3.110	2.840	2.557	2.549	2.493	2.274	2.369	2.599	11.03
33) I 1,4-Difluorobenzene	-----ISTD-----								
34) T 2-Butanone			0.886	0.826	0.818	0.687	0.737	0.791	9.94
35) T Carbon Tetrach...	1.319	0.914	0.832	0.830	0.847	0.770	0.823	0.905	20.70
36) T Benzene			1.146	1.075	1.121	1.002	1.048	1.079	5.31
37) T 1,2-Dichloroet...			0.691	0.647	0.666	0.592	0.641	0.647	5.63
38) T Trichloroethene	0.643	0.505	0.443	0.448	0.447	0.395	0.419	0.471	17.59
39) T 1,2-Dichloropr...			0.441	0.413	0.405	0.370	0.381	0.402	6.97

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\										
Method File : VL041725AIR.M										
40) T	1,4-Dioxane			0.263	0.243	0.232	0.182	0.185	0.221	16.27
41) T	Tetrahydrofuran			0.518	0.480	0.468	0.409	0.432	0.461	9.20
42) T	Bromodichlorom...			0.943	0.909	0.912	0.852	0.889	0.901	3.71
43) T	Methyl Methacr...			0.545	0.520	0.495	0.430	0.441	0.486	10.21
44) T	2,2,4-Trimethy...			1.935	1.916	1.962	1.708	1.794	1.863	5.79
45) T	t-1,3-Dichloro...			0.514	0.510	0.509	0.459	0.491	0.497	4.60
46) T	cis-1,3-Dichlo...			0.613	0.617	0.637	0.570	0.603	0.608	4.05
47) T	1,1,2-Trichlor...			0.423	0.429	0.420	0.376	0.399	0.410	5.32
48) T	Dibromochlorom...			0.743	0.721	0.746	0.679	0.729	0.723	3.70
49) T	Bromoform			0.622	0.623	0.675	0.616	0.627	0.633	3.82
50) T	4-Methyl-2-Pen...			1.541	1.382	1.435	1.082	1.132	1.314	15.12
51) T	2-Hexanone			1.341	1.311	1.411	0.893	0.938	1.179	20.69
52) T	Tetrachloroethene	0.543	0.452	0.420	0.393	0.391	0.357	0.363	0.417	15.46
53) T	Toluene			1.371	1.295	1.370	1.193	1.244	1.294	6.03
54) T	1,2-Dibromoethane		0.621	0.582	0.605	0.606	0.539	0.562	0.586	5.27
-----ISTD-----										
55) I	Chlorobenzene-d5									
56) T	1,1,1,2-Tetrac...			0.621	0.640	0.635	0.550	0.581	0.605	6.37
57) T	Chlorobenzene			1.129	1.067	1.068	0.956	0.981	1.040	6.79
58) T	Ethyl Benzene			2.029	2.088	2.068	1.832	1.890	1.981	5.73
59) T	m/p-Xylene			1.685	1.682	1.658	1.456	1.500	1.596	6.86
60) T	o-Xylene			1.740	1.697	1.668	1.442	1.490	1.607	8.25
61) T	Styrene			0.792	0.776	0.808	0.726	0.734	0.767	4.68
62) T	Isopropylbenzene			2.517	2.470	2.439	2.170	2.202	2.360	6.83
63) T	1,1,2,2-Tetrac...	1.407	1.176	0.990	0.985	0.968	0.873	0.892	1.042	18.12
64) T	n-propylbenzene			0.645	0.605	0.610	0.542	0.564	0.593	6.81
65) T	tert-Butylbenzene			2.319	2.358	2.315	1.907	1.945	2.169	10.27
66) T	Benzyl Chloride			0.241	0.239	0.258	0.246	0.208	0.238	7.84
67) T	sec-Butylbenzene			3.242	3.219	3.253	2.662	2.709	3.017	10.05
68) S	1-Bromo-4-Fluo...	0.819	0.814	0.824	0.818	0.822	0.831	0.825	0.822	0.69
69) T	p-Isopropyltol...			2.834	2.818	2.811	2.304	2.338	2.621	10.46
70) T	n-Butylbenzene			2.985	2.926	2.953	2.370	2.414	2.730	11.33
71) T	2-Chlorotoluene			1.972	1.924	1.920	1.695	1.744	1.851	6.65
72) T	4-Ethyltoluene			2.055	2.118	2.054	1.765	1.833	1.965	7.92
73) T	1,3,5-Trimethy...			1.894	1.851	1.841	1.517	1.570	1.735	10.19
74) T	1,2,4-Trimethy...			2.348	2.245	2.168	1.671	1.698	2.026	15.71
75) T	1,3-Dichlorobe...			1.119	1.121	1.119	0.948	0.960	1.053	8.64
76) T	1,4-Dichlorobe...			1.138	1.115	1.122	0.944	0.974	1.059	8.69
77) T	1,2-Dichlorobe...			1.085	1.093	1.114	0.904	0.924	1.024	9.88
78) T	Hexachloro-1,3...			1.163	1.136	1.135	0.863	0.874	1.034	14.66
79) T	Naphthalene		2.433	2.395	2.756	2.909	2.004	2.040	2.423	15.11
80) T	Naphthalene,2-...			1.311	1.534	1.777	1.115	1.168	1.381	19.88
81) T	1,2,4-Trichlor...			1.026	1.117	1.224	0.905	0.929	1.040	12.75

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042349.D
 Acq On : 17 Apr 2025 09:44
 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 04/18/2025
 Supervised By : Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 01:25:08 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

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

QLast Update : Fri Apr 18 01:24:29 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	125455	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	366544	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	338126	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 281013 10.114 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.100%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	207962	9.382	ppbv	100
3) Chlorodifluoromethane	1.476	51	197334	9.350	ppbv	100
4) Chloromethane	1.531	50	81843	9.330	ppbv	100
5) Vinyl Chloride	1.580	62	80068	8.385	ppbv	100
6) Bromomethane	1.667	94	38128	9.219	ppbv	100
7) Chloroethane	1.703	64	31705	9.182	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	179696	9.442	ppbv	100
9) Propene	1.483	41	86530	9.002	ppbv	100
10) Heptane	4.978	43	236341	9.138	ppbv	100
11) Trichlorofluoromethane	1.877	101	196596	9.327	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.136	101	160682	9.323	ppbv	100
13) Ethanol	1.719	45	4439	5.651	ppbv	100
14) Bromoethene	1.780	108	61493	9.466	ppbv	100
15) Acetone	1.835	43	158490	7.717	ppbv	100
16) 1,3-Butadiene	1.609	39	81688	8.470	ppbv	100
17) tert-Butyl alcohol	2.039	59	226280	8.891	ppbv	100
18) 1,1-Dichloroethene	2.033	96	73186	8.833	ppbv	100
19) Isopropyl Alcohol	1.884	45	103029	9.031	ppbv	100
20) Methylene Chloride	2.062	84	62414	7.760	ppbv	100
21) Allyl Chloride	2.094	41	122115	8.611	ppbv	100
22) trans-1,2-Dichloroethene	2.340	96	83278	9.084	ppbv	100
23) Vinyl Acetate	2.460	43	69649	8.378	ppbv	100
24) 1,1-Dichloroethane	2.408	63	161102	9.251	ppbv	100
25) Ethyl Acetate	2.836	43	461315	9.110	ppbv	100
26) Hexane	2.826	57	178691	8.720	ppbv	100
27) Carbon Disulfide	2.149	76	209297	9.539	ppbv	100
28) Methyl tert-Butyl Ether	2.441	73	117924	8.783	ppbv	100
29) Chloroform	2.848	83	269088	9.290	ppbv	100
30) Cyclohexane	3.855	84	157035	9.517	ppbv	100
31) cis-1,2-Dichloroethene	2.719	61	183082	9.397	ppbv	100
32) 1,1,1-Trichloroethane	3.366	97	285336	9.187	ppbv	100
34) 2-Butanone	2.557	43	251704	8.683	ppbv	100
35) Carbon Tetrachloride	3.761	117	282402	8.513	ppbv	100
36) Benzene	3.654	78	367355	9.292	ppbv	100
37) 1,2-Dichloroethane	3.217	62	216999	9.145	ppbv	100
38) Trichloroethene	4.548	130	144767	8.352	ppbv	100
39) 1,2-Dichloropropane	4.311	63	135605	9.197	ppbv	100
40) 1,4-Dioxane	4.580	88	66662	8.348	ppbv #	100
41) Tetrahydrofuran	3.052	42	149905	8.950	ppbv	100
42) Bromodichloromethane	4.489	83	312268	9.456	ppbv	100
43) Methyl Methacrylate	4.881	69	157501	8.876	ppbv	100
44) 2,2,4-Trimethylpentane	4.642	57	626085	9.157	ppbv	100
45) t-1,3-Dichloropropene	6.415	75	168223	9.233	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042349.D
 Acq On : 17 Apr 2025 09:44
 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 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 01:25:08 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

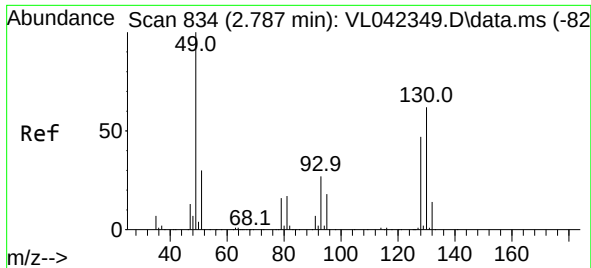
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Fri Apr 18 01:24:29 2025

Response via : Initial Calibration

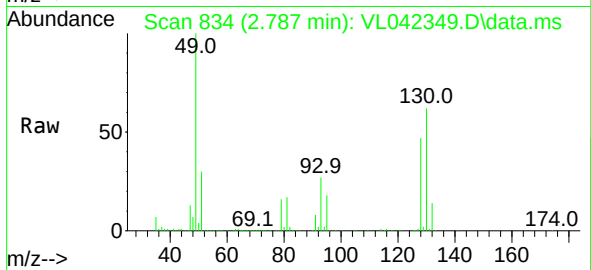
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.600	75	208811	9.377	ppbv	100
47) 1,1,2-Trichloroethane	6.580	97	137898	9.181	ppbv	100
48) Dibromochloromethane	7.386	129	248954	9.388	ppbv	100
49) Bromoform	9.480	173	225706	9.734	ppbv	100
50) 4-Methyl-2-Pentanone	5.752	43	396548	8.215	ppbv	100
51) 2-Hexanone	7.435	43	327165	7.511	ppbv	100
52) Tetrachloroethene	8.225	164	130720	8.553	ppbv	100
53) Toluene	6.933	91	437258	9.216	ppbv	100
54) 1,2-Dibromoethane	7.652	107	197665	9.235	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.927	131	186041	9.091	ppbv	100
57) Chlorobenzene	8.920	112	323084	9.187	ppbv	100
58) Ethyl Benzene	9.354	91	619581	9.248	ppbv	100
59) m/p-Xylene	9.552	91	984458m	18.187	ppbv	
60) o-Xylene	9.963	91	487616	8.972	ppbv	100
61) Styrene	9.869	104	245487	9.464	ppbv	100
62) Isopropylbenzene	10.539	105	733788	9.197	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.963	83	295041	8.355	ppbv	100
64) n-propylbenzene	10.989	120	183390	9.144	ppbv	100
65) tert-Butylbenzene	11.532	119	644953	8.795	ppbv	100
66) Benzyl Chloride	11.617	91	83269	10.333	ppbv	100
67) sec-Butylbenzene	11.769	105	900074	8.824	ppbv	100
69) p-Isopropyltoluene	11.927	119	778987	8.790	ppbv	100
70) n-Butylbenzene	12.283	91	801364	8.682	ppbv	100
71) 2-Chlorotoluene	10.901	91	573039	9.157	ppbv	100
72) 4-Ethyltoluene	11.125	105	596757	8.982	ppbv	100
73) 1,3,5-Trimethylbenzene	11.205	105	512855	8.743	ppbv	100
74) 1,2,4-Trimethylbenzene	11.539	105	565064	8.248	ppbv	100
75) 1,3-Dichlorobenzene	11.607	146	320380	8.997	ppbv	100
76) 1,4-Dichlorobenzene	11.672	146	319089	8.915	ppbv	100
77) 1,2-Dichlorobenzene	11.947	146	305822	8.832	ppbv	100
78) Hexachloro-1,3-Butadiene	13.882	225	291833	8.346	ppbv	100
79) Naphthalene	13.513	128	677578	8.271	ppbv	100
80) Naphthalene,2-methyl-	14.458	142	376995	8.074	ppbv	100
81) 1,2,4-Trichlorobenzene	13.442	180	306119	8.702	ppbv	100

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 834
Delta R.T. -0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

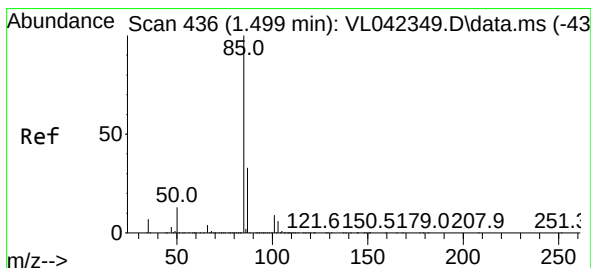
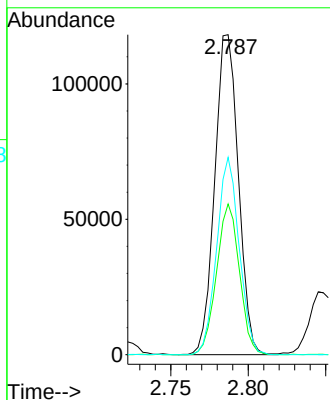
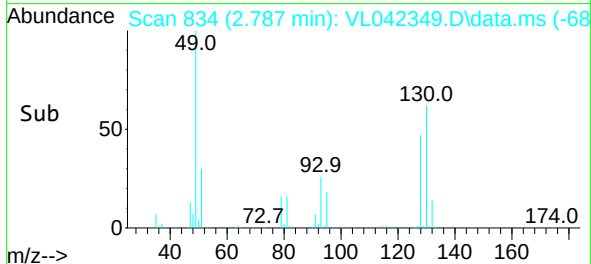
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



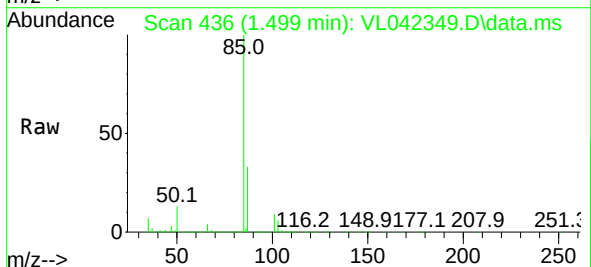
Tgt Ion: 49 Resp: 125458
Ion Ratio Lower Upper
49 100
128 45.6 22.8 68.4
130 58.7 29.3 88.0

Manual Integrations
APPROVED

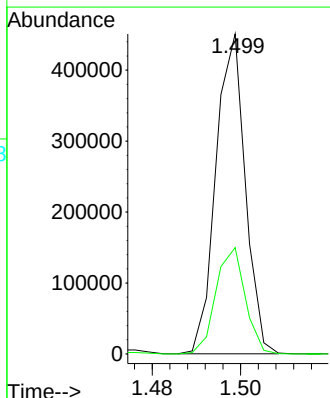
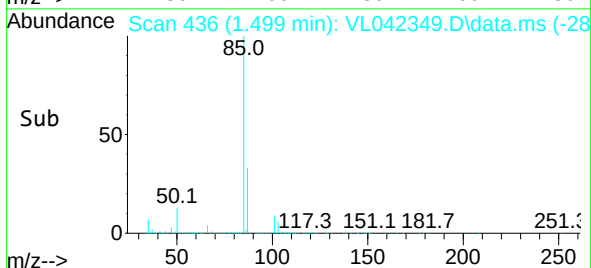
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

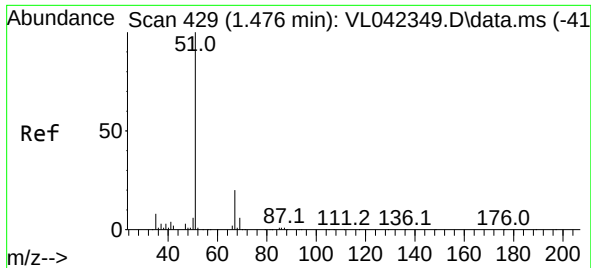


#2
Dichlorodifluoromethane
Concen: 9.382 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



Tgt Ion: 85 Resp: 207962
Ion Ratio Lower Upper
85 100
87 33.2 26.6 39.8





#3

Chlorodifluoromethane

Concen: 9.350 ppbv

RT: 1.476 min Scan# 429

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 51 Resp: 197334

Ion Ratio Lower Upper

51 100

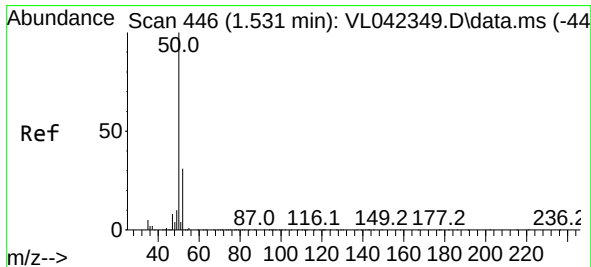
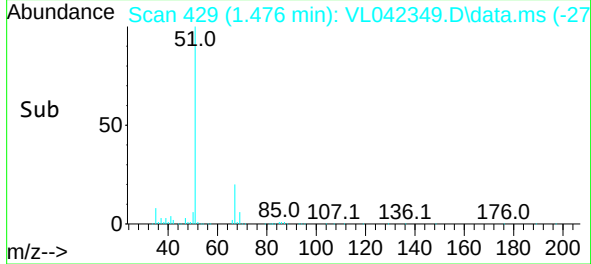
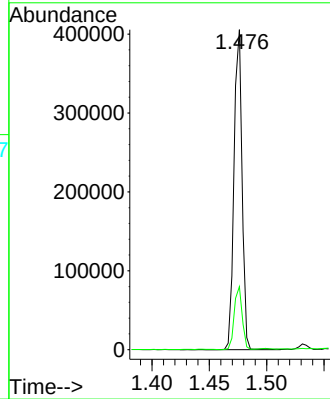
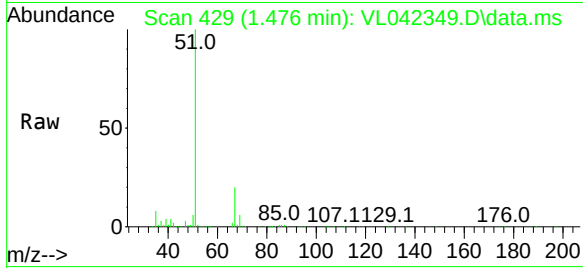
67 20.3 16.2 24.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#4

Chloromethane

Concen: 9.330 ppbv

RT: 1.531 min Scan# 446

Delta R.T. 0.000 min

Lab File: VL042349.D

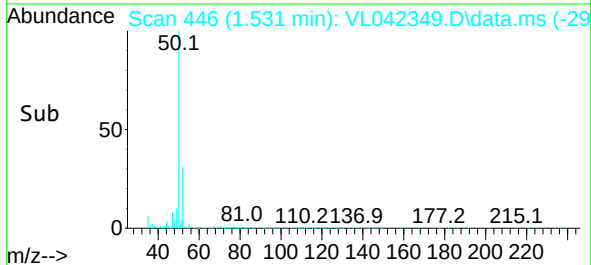
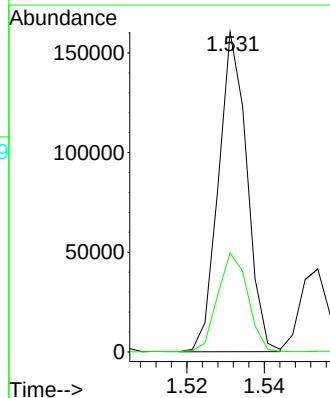
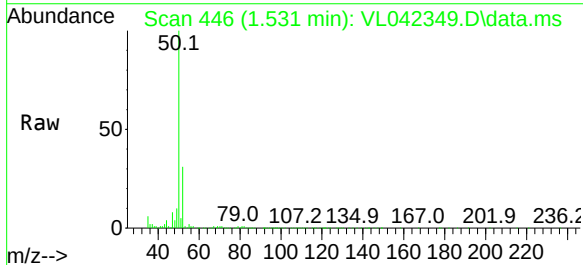
Acq: 17 Apr 2025 09:44

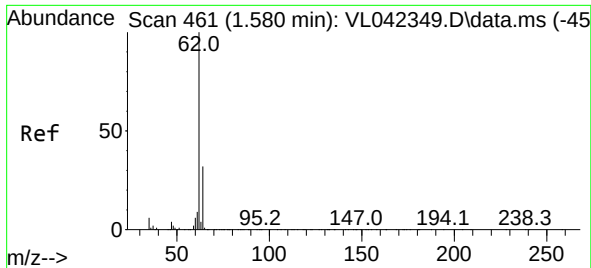
Tgt Ion: 50 Resp: 81843

Ion Ratio Lower Upper

50 100

52 30.9 24.7 37.1





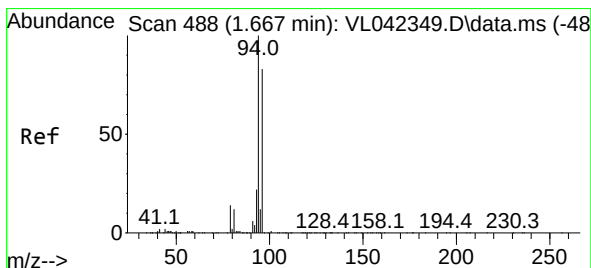
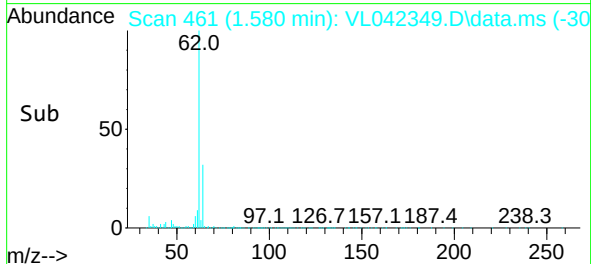
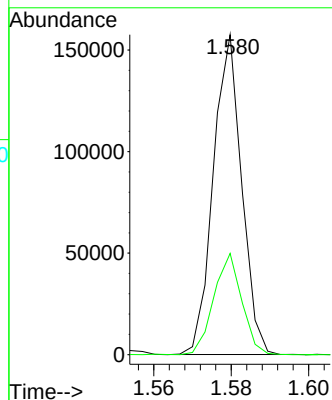
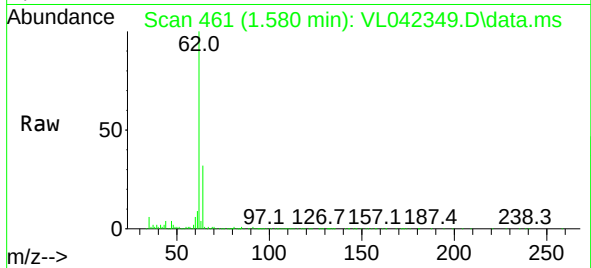
#5
 Vinyl Chloride
 Concen: 8.385 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tgt Ion: 62 Resp: 80068
 Ion Ratio Lower Upper
 62 100
 64 31.7 25.4 38.0

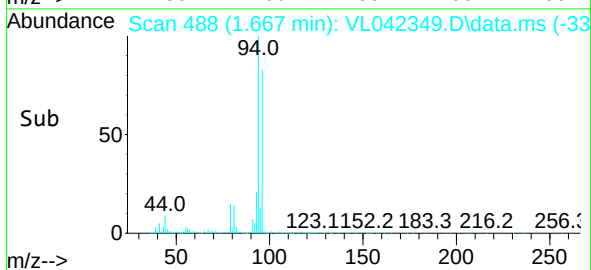
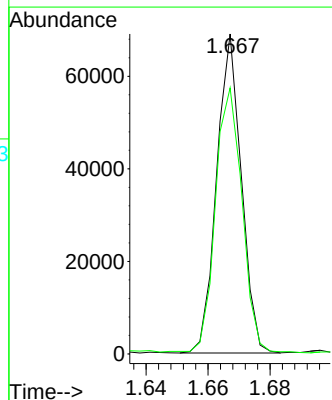
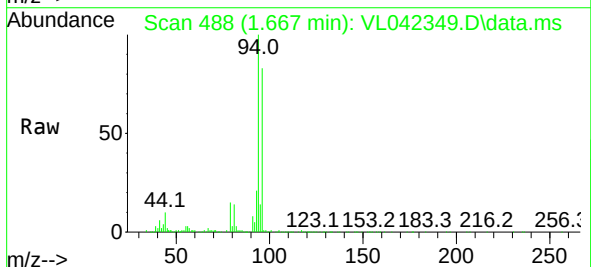
Manual Integrations
 APPROVED

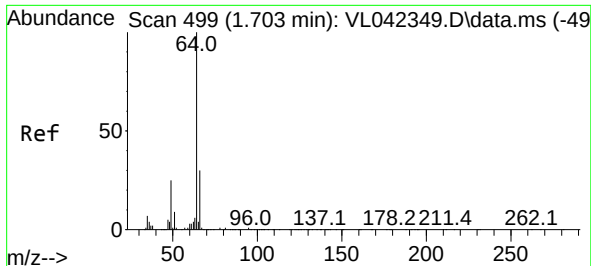
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#6
 Bromomethane
 Concen: 9.219 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44

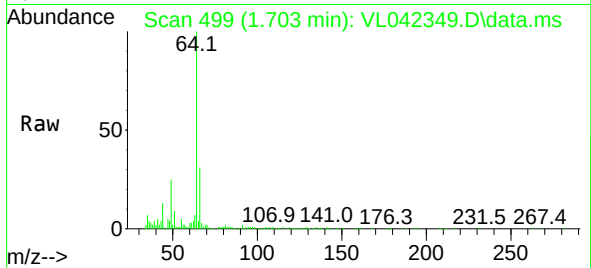
Tgt Ion: 94 Resp: 38128
 Ion Ratio Lower Upper
 94 100
 96 82.7 66.2 99.2





#7
Chloroethane
Concen: 9.182 ppbv
RT: 1.703 min Scan# 499
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

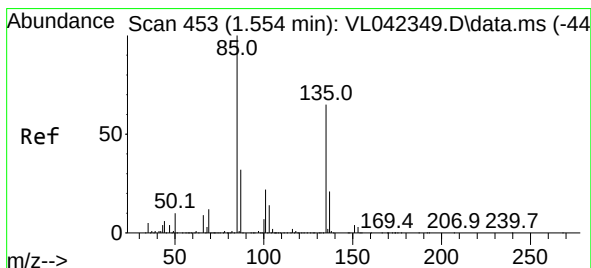
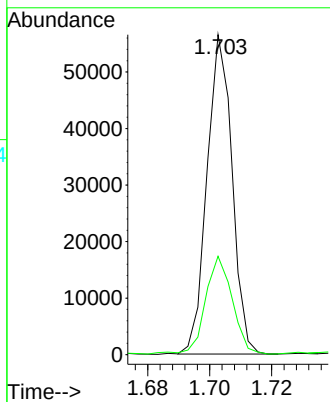
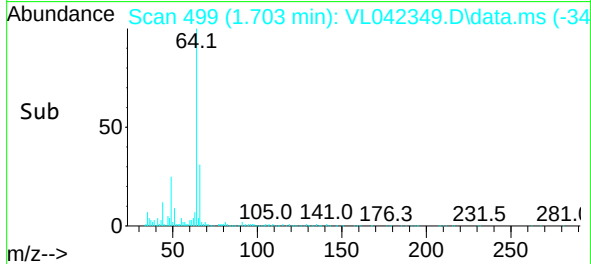
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



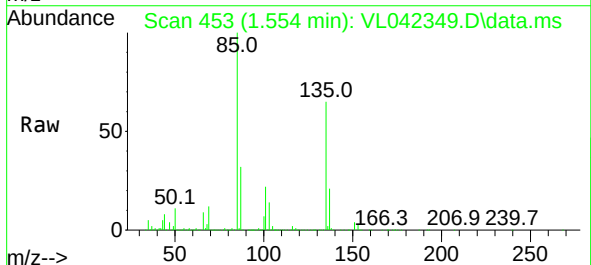
Tgt Ion: 64 Resp: 31705
Ion Ratio Lower Upper
64 100
66 30.8 24.6 37.0

Manual Integrations
APPROVED

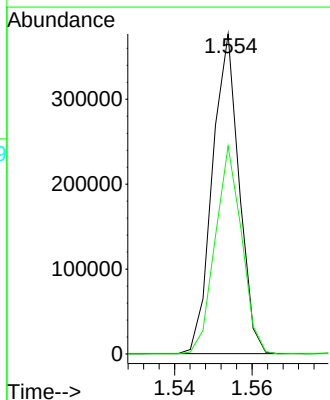
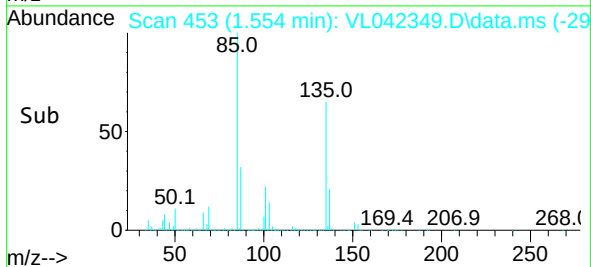
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

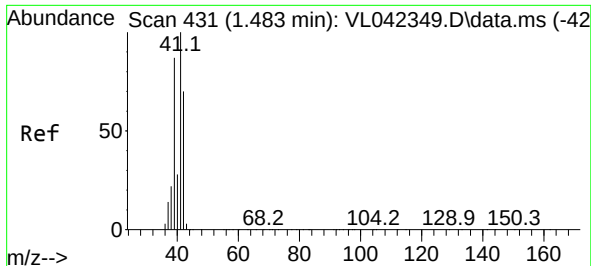


#8
Dichlorotetrafluoroethane
Concen: 9.442 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



Tgt Ion: 85 Resp: 179696
Ion Ratio Lower Upper
85 100
135 65.2 52.2 78.2





#9

Propene

Concen: 9.002 ppbv

RT: 1.483 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 41 Resp: 86530

Ion Ratio Lower Upper

41 100

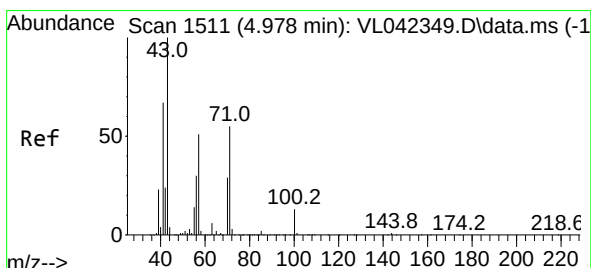
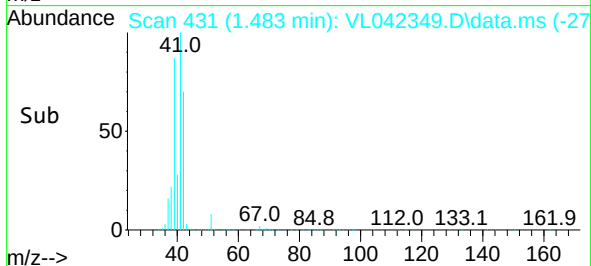
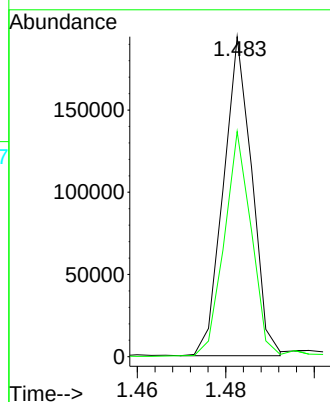
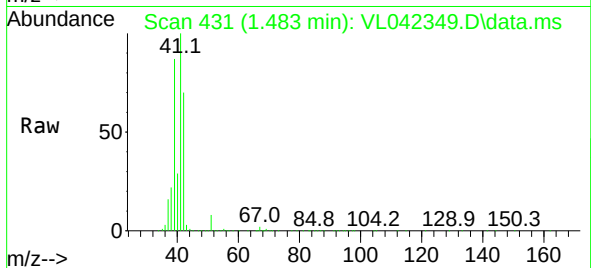
42 70.3 56.2 84.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#10

Heptane

Concen: 9.138 ppbv

RT: 4.978 min Scan# 1511

Delta R.T. 0.000 min

Lab File: VL042349.D

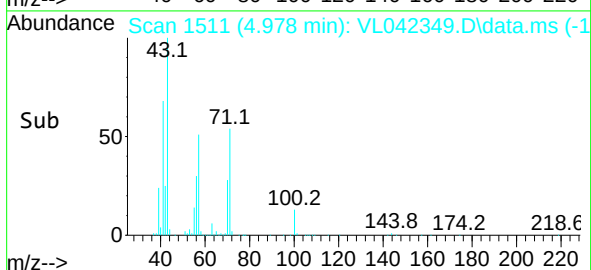
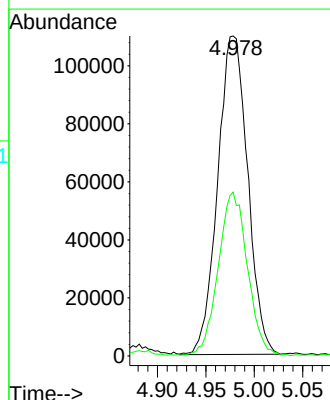
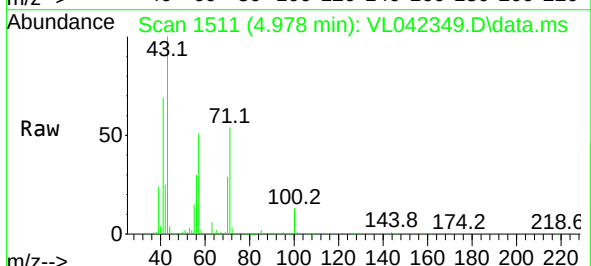
Acq: 17 Apr 2025 09:44

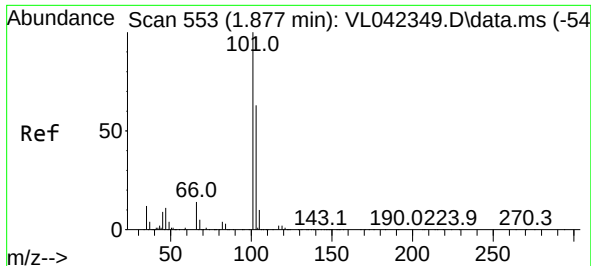
Tgt Ion: 43 Resp: 236341

Ion Ratio Lower Upper

43 100

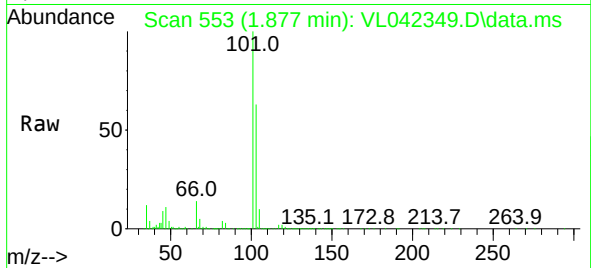
57 49.9 39.9 59.9





#11
 Trichlorofluoromethane
 Concen: 9.327 ppbv
 RT: 1.877 min Scan# 511
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44

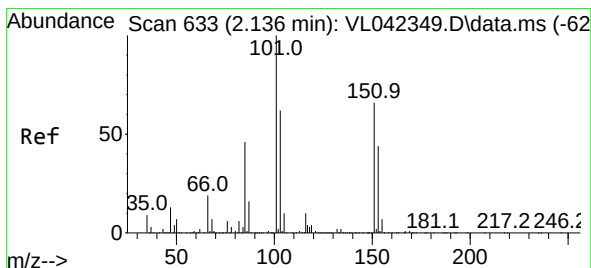
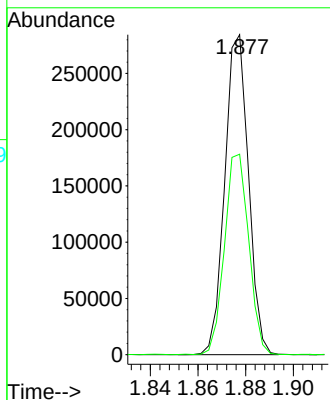
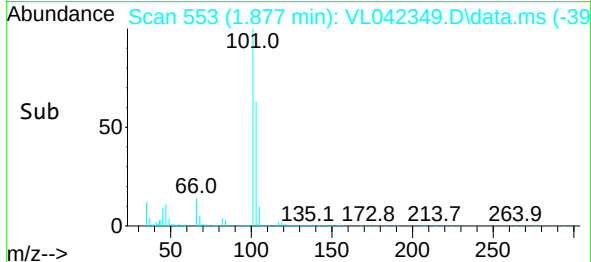
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



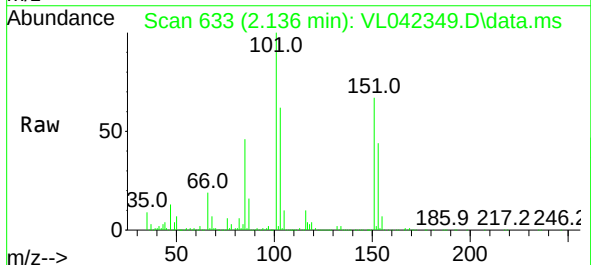
Tgt Ion:101 Resp: 196590
 Ion Ratio Lower Upper
 101 100
 103 62.6 50.1 75.1

Manual Integrations
 APPROVED

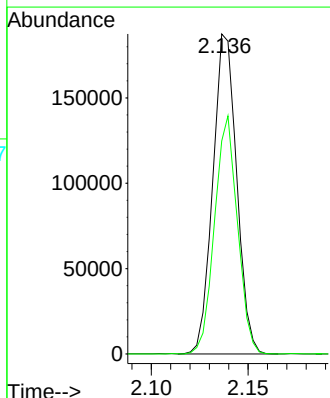
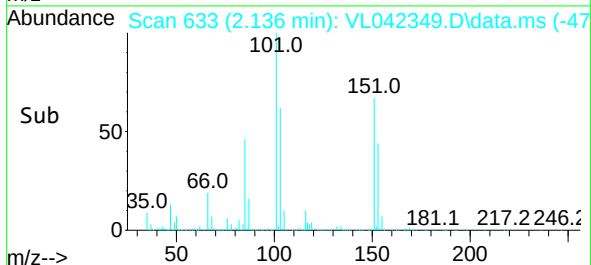
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

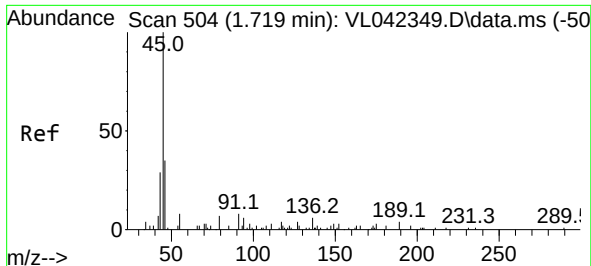


#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.323 ppbv
 RT: 2.136 min Scan# 633
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44



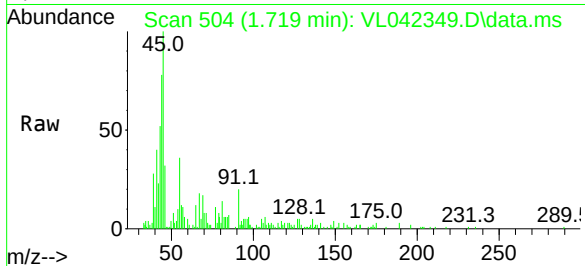
Tgt Ion:101 Resp: 160682
 Ion Ratio Lower Upper
 101 100
 151 71.3 57.0 85.6





#13
Ethanol
Concen: 5.651 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

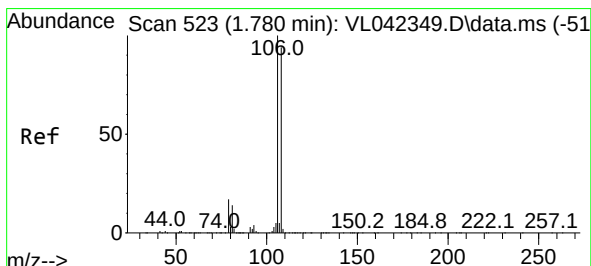
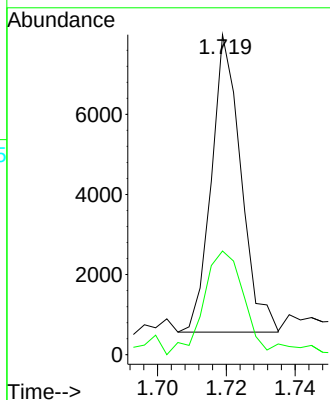
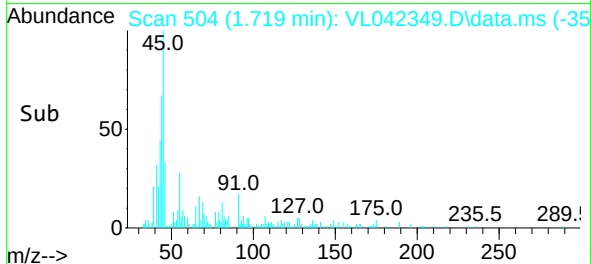
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



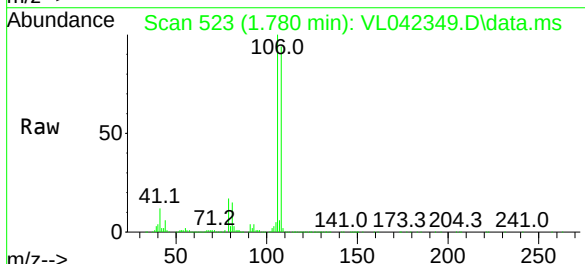
Tgt Ion: 45 Resp: 4439
Ion Ratio Lower Upper
45 100
46 54.8 21.9 87.7

Manual Integrations
APPROVED

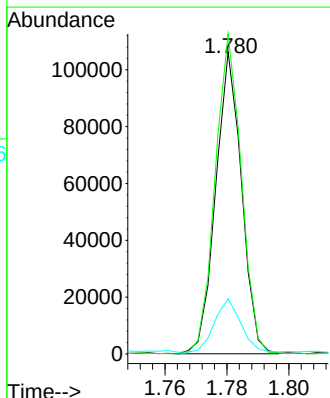
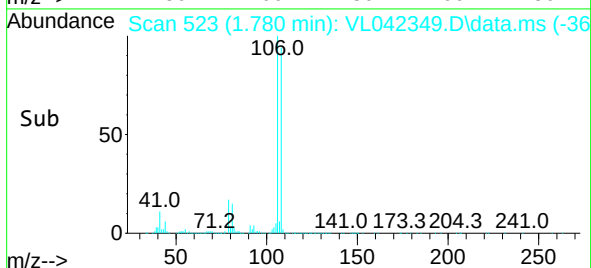
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

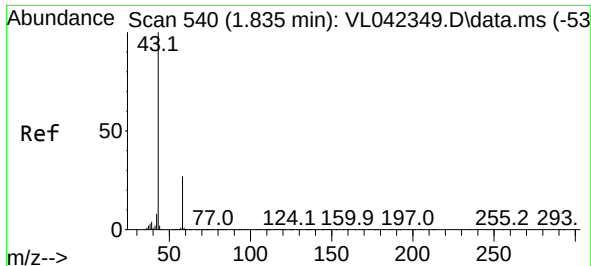


#14
Bromoethene
Concen: 9.466 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



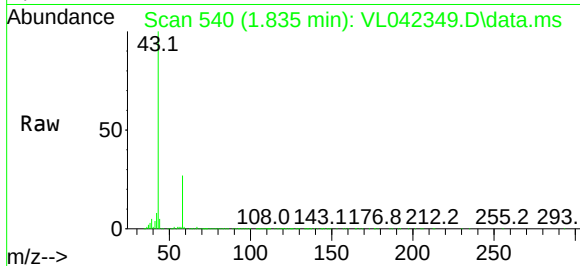
Tgt Ion:108 Resp: 61493
Ion Ratio Lower Upper
108 100
106 107.4 85.9 128.9
79 17.4 13.9 20.9





#15
Acetone
Concen: 7.717 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

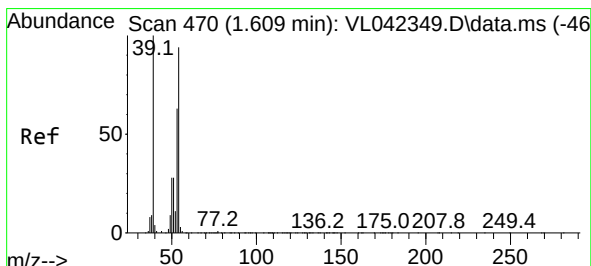
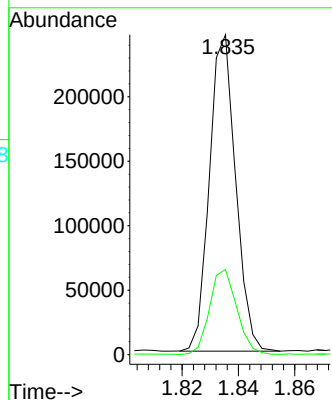
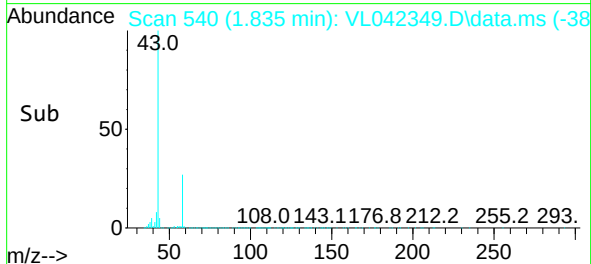
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



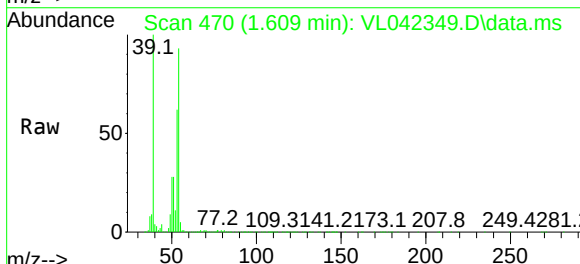
Tgt Ion: 43 Resp: 158490
Ion Ratio Lower Upper
43 100
58 28.0 22.4 33.6

Manual Integrations
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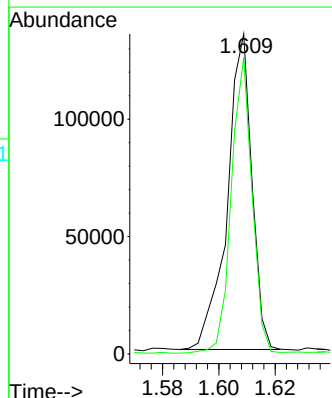
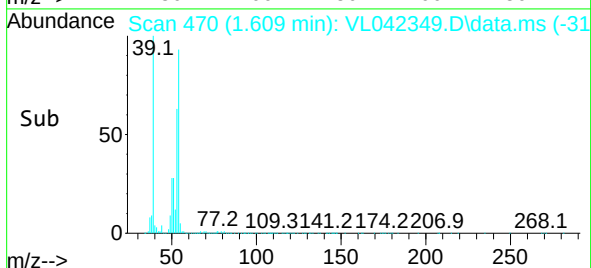
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

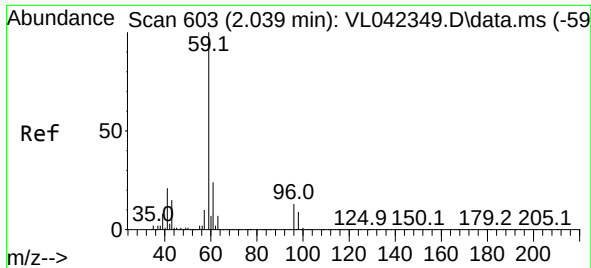


#16
1,3-Butadiene
Concen: 8.470 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



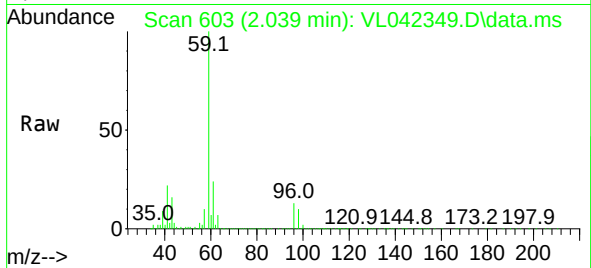
Tgt Ion: 39 Resp: 81688
Ion Ratio Lower Upper
39 100
54 81.1 64.9 97.3





#17
tert-Butyl alcohol
Concen: 8.891 ppbv
RT: 2.039 min Scan# 603
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

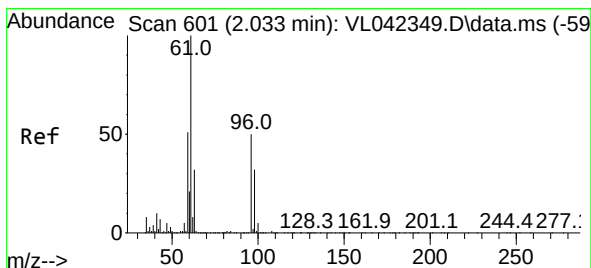
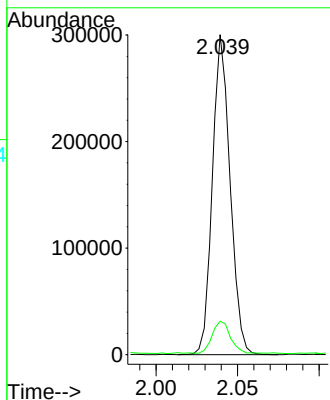
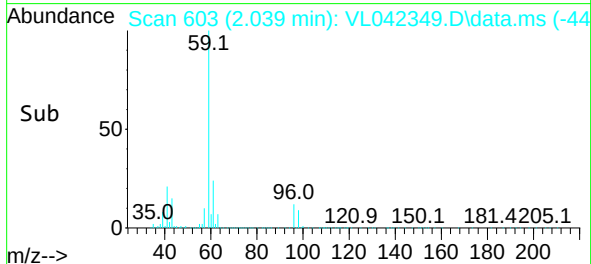
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



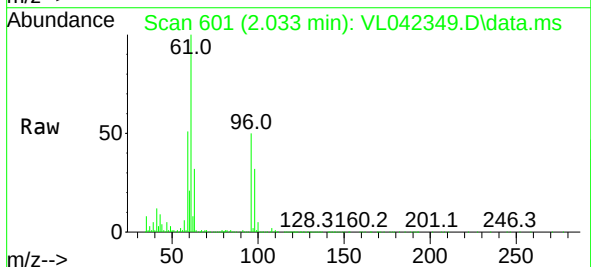
Tgt Ion: 59 Resp: 226280
Ion Ratio Lower Upper
59 100
57 10.9 8.7 13.1

Manual Integrations
APPROVED

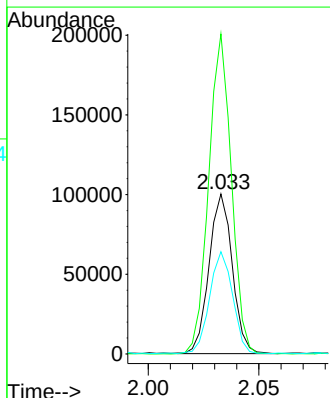
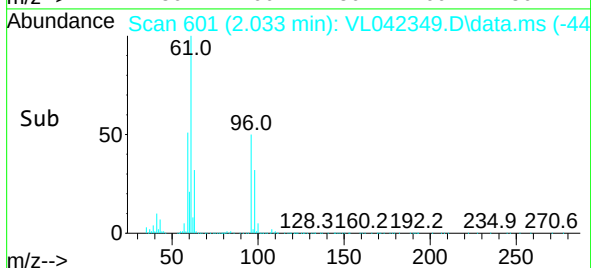
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

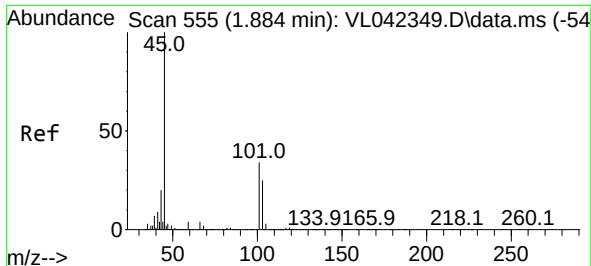


#18
1,1-Dichloroethene
Concen: 8.833 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



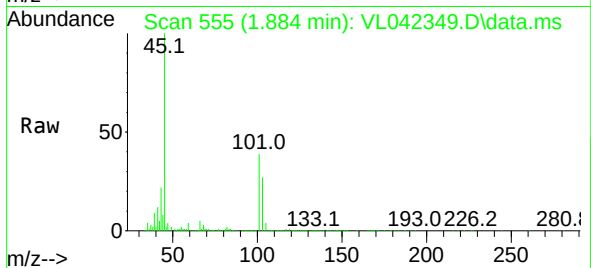
Tgt Ion: 96 Resp: 73186
Ion Ratio Lower Upper
96 100
61 200.2 160.2 240.2
98 63.7 51.0 76.4





#19
Isopropyl Alcohol
Concen: 9.031 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

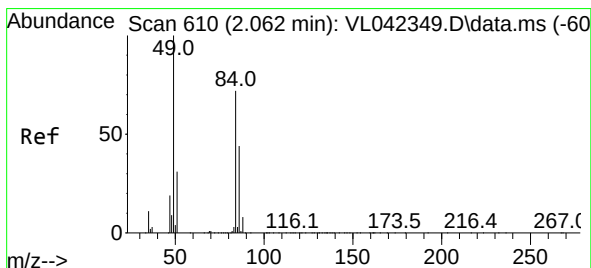
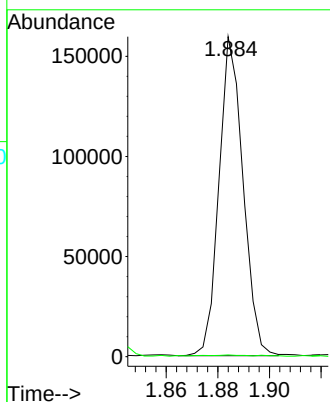
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



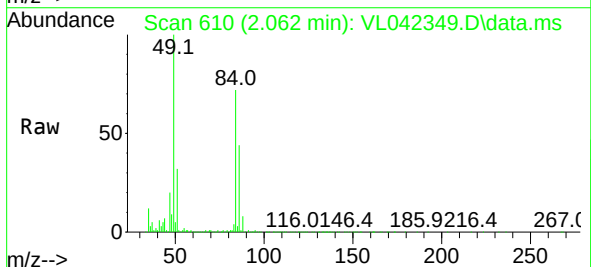
Tgt Ion: 45 Resp: 103029
Ion Ratio Lower Upper
45 100
58 43.1 34.5 51.7

Manual Integrations
APPROVED

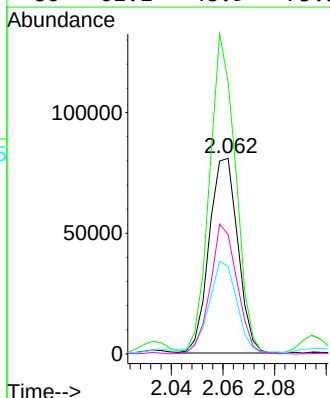
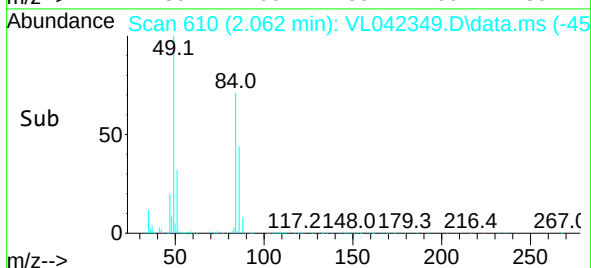
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

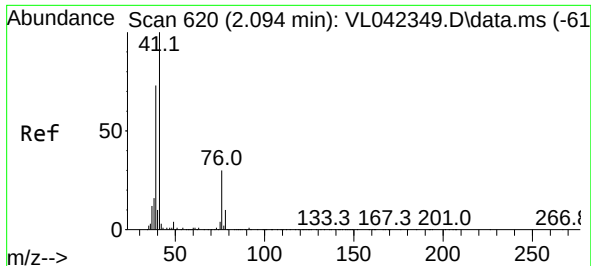


#20
Methylene Chloride
Concen: 7.760 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



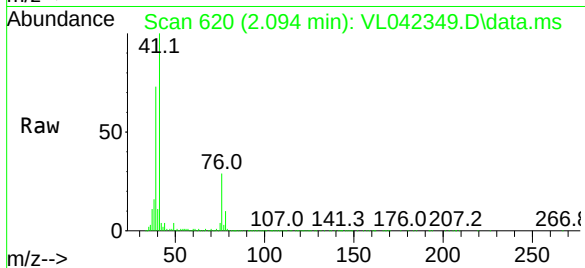
Tgt Ion: 84 Resp: 62414
Ion Ratio Lower Upper
84 100
49 139.5 111.6 167.4
51 43.9 35.1 52.7
86 61.1 48.9 73.3





#21
 Allyl Chloride
 Concen: 8.611 ppbv
 RT: 2.094 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44

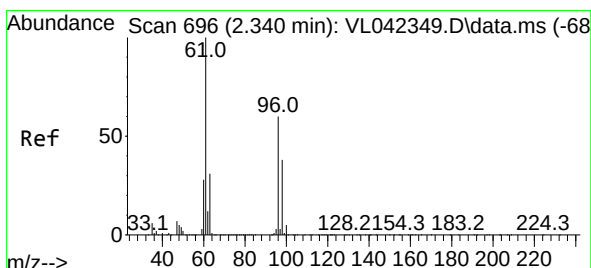
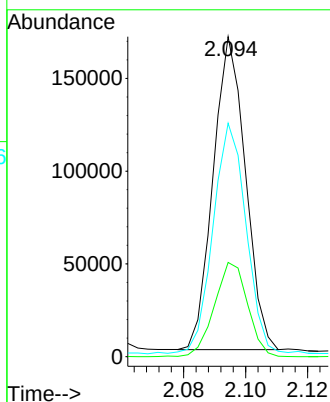
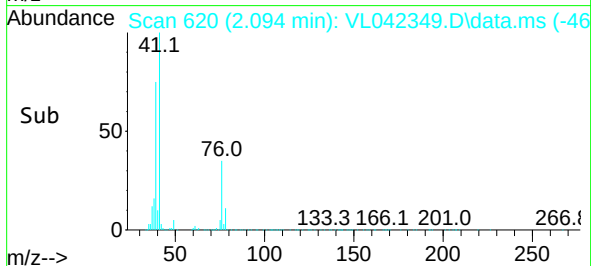
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



Tgt Ion: 41 Resp: 122115
 Ion Ratio Lower Upper
 41 100
 76 31.0 24.8 37.2
 39 75.7 60.6 90.8

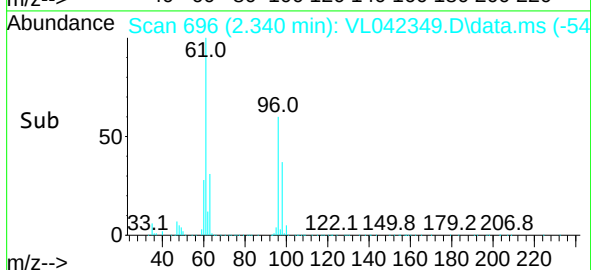
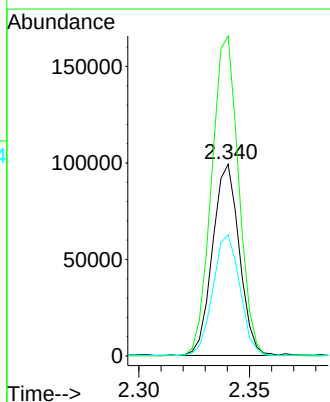
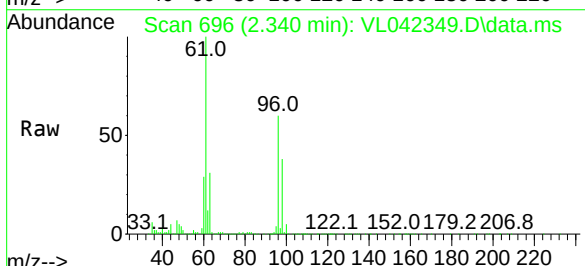
Manual Integrations
 APPROVED

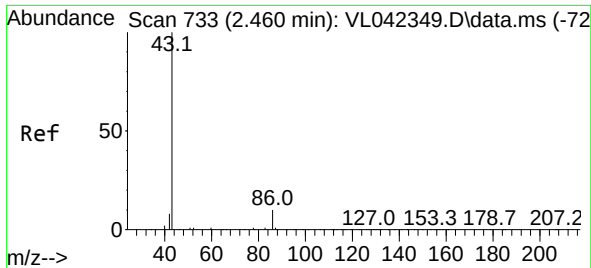
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#22
 trans-1,2-Dichloroethene
 Concen: 9.084 ppbv
 RT: 2.340 min Scan# 696
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44

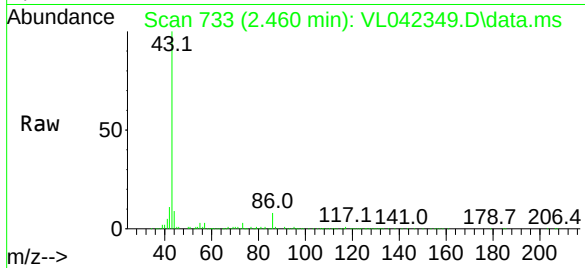
Tgt Ion: 96 Resp: 83278
 Ion Ratio Lower Upper
 96 100
 61 167.1 133.7 200.5
 98 62.9 50.3 75.5





#23
 Vinyl Acetate
 Concen: 8.378 ppbv
 RT: 2.460 min Scan# 717
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44

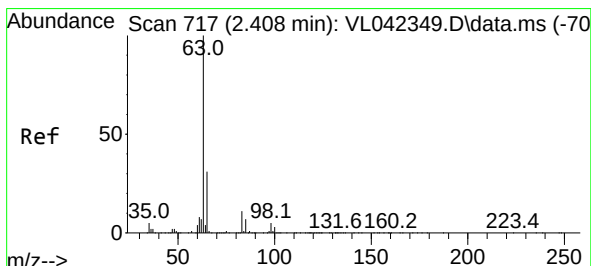
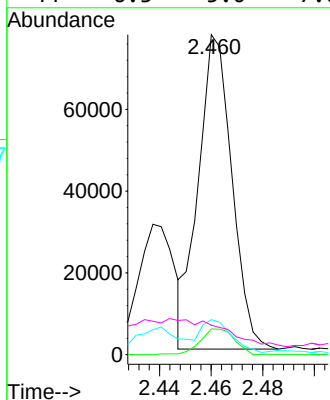
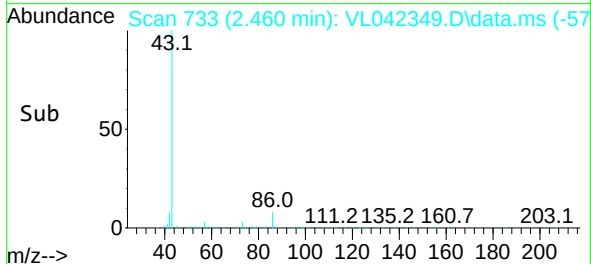
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010



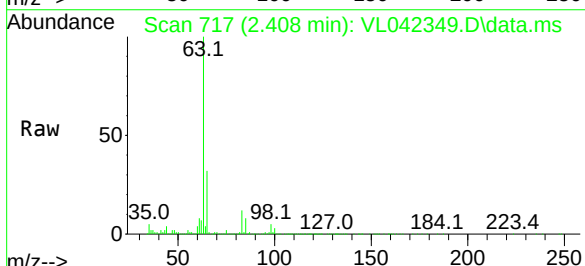
Tgt Ion: 43 Resp: 69649
 Ion Ratio Lower Upper
 43 100
 86 8.1 6.5 9.7
 42 9.8 7.8 11.8
 44 6.3 5.0 7.6

Manual Integrations
 APPROVED

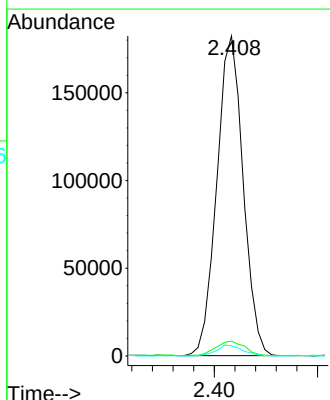
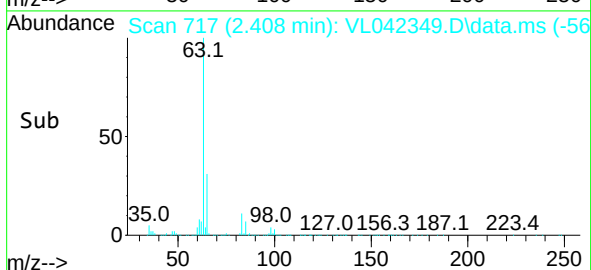
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

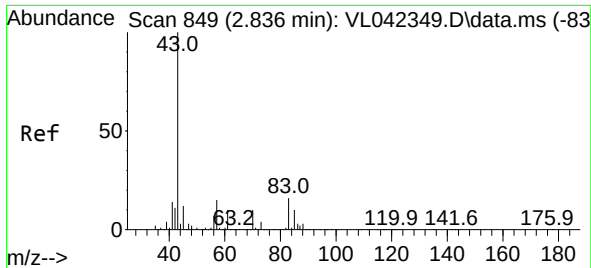


#24
 1,1-Dichloroethane
 Concen: 9.251 ppbv
 RT: 2.408 min Scan# 717
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44



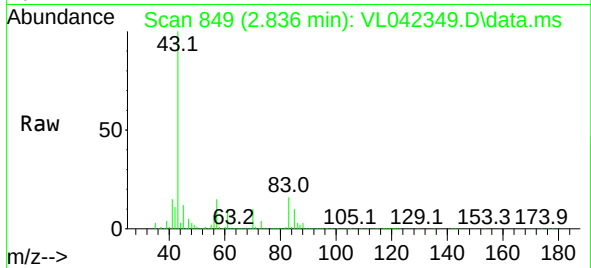
Tgt Ion: 63 Resp: 161102
 Ion Ratio Lower Upper
 63 100
 98 4.5 2.3 6.8
 100 3.2 1.6 4.8





#25
Ethyl Acetate
Concen: 9.110 ppbv
RT: 2.836 min Scan# 849
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

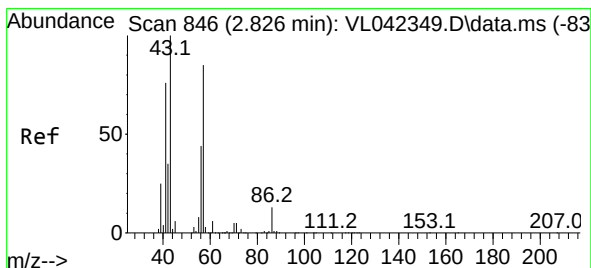
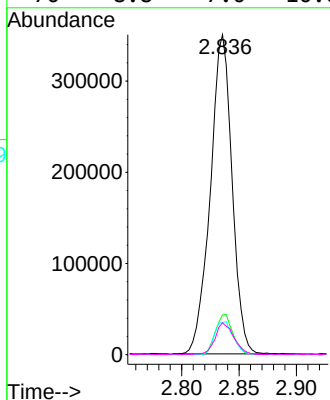
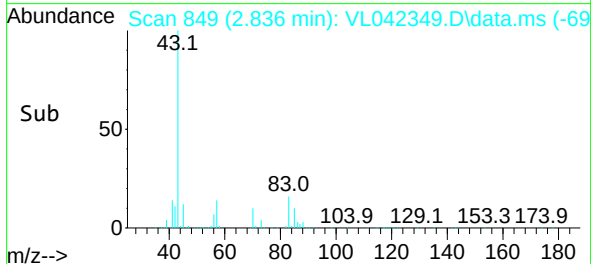
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



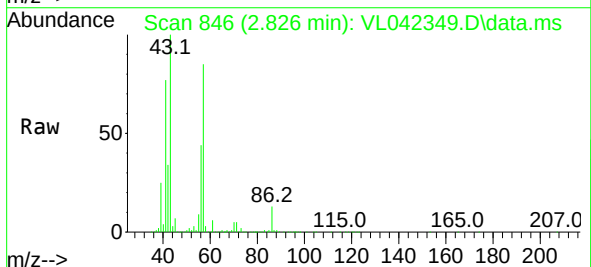
Tgt Ion: 43 Resp: 461315
Ion Ratio Lower Upper
43 100
45 10.4 8.3 12.5
61 9.1 7.3 10.9
70 8.8 7.0 10.6

Manual Integrations
APPROVED

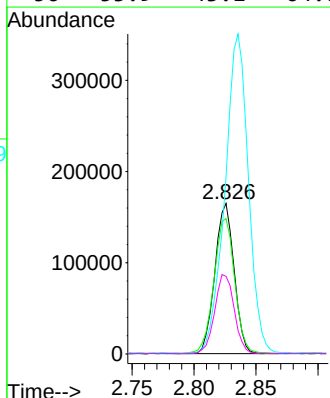
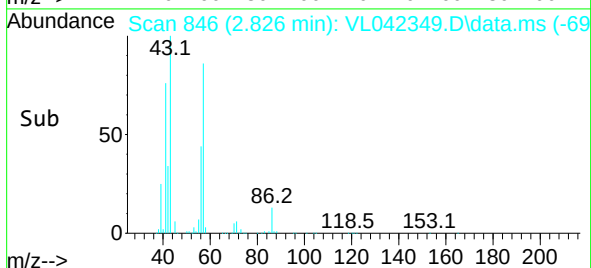
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

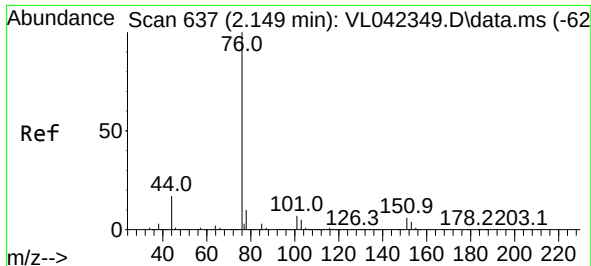


#26
Hexane
Concen: 8.720 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



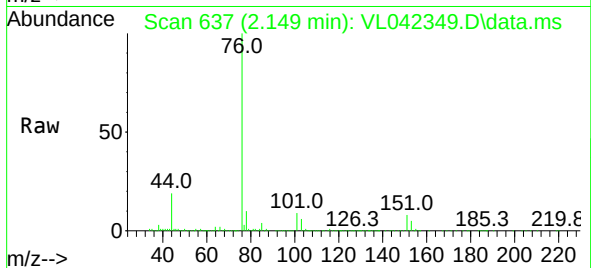
Tgt Ion: 57 Resp: 178691
Ion Ratio Lower Upper
57 100
41 97.4 77.9 116.9
43 260.5 208.4 312.6
56 53.9 43.1 64.7





#27
Carbon Disulfide
Concen: 9.539 ppbv
RT: 2.149 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

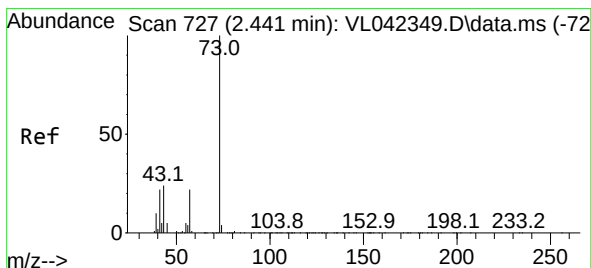
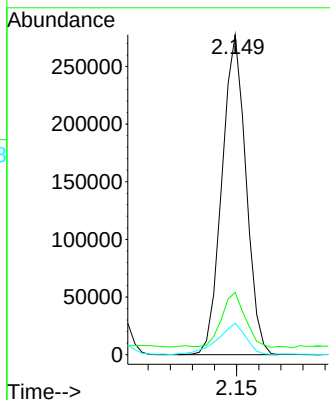
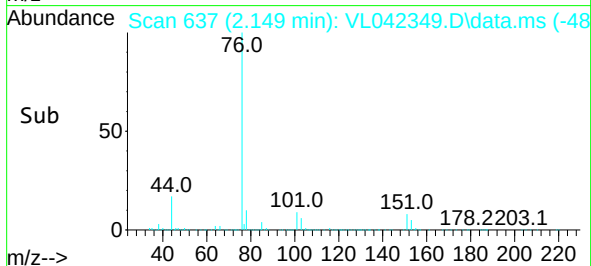
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



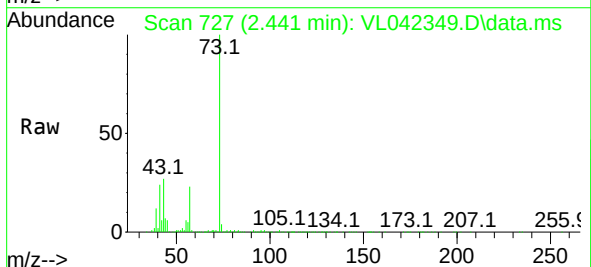
Tgt Ion: 76 Resp: 20929
Ion Ratio Lower Upper
76 100
44 19.4 15.5 23.3
78 11.6 9.3 13.9

Manual Integrations
APPROVED

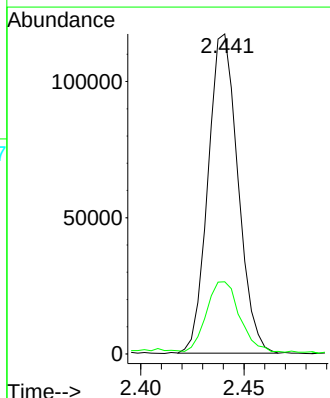
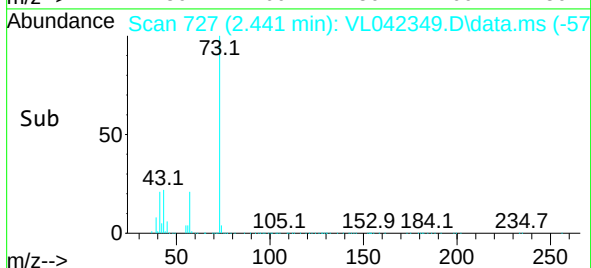
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

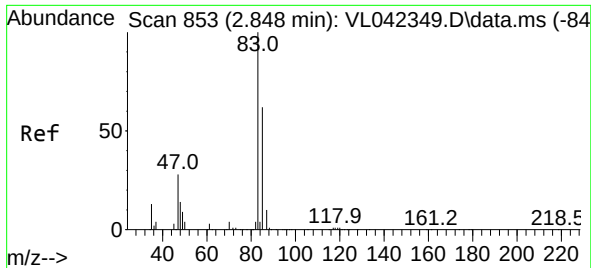


#28
Methyl tert-Butyl Ether
Concen: 8.783 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



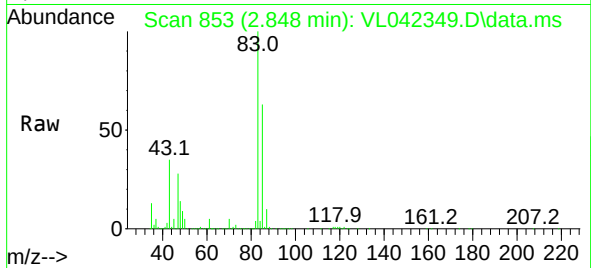
Tgt Ion: 73 Resp: 117924
Ion Ratio Lower Upper
73 100
57 26.6 21.3 31.9





#29
Chloroform
Concen: 9.290 ppbv
RT: 2.848 min Scan# 853
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

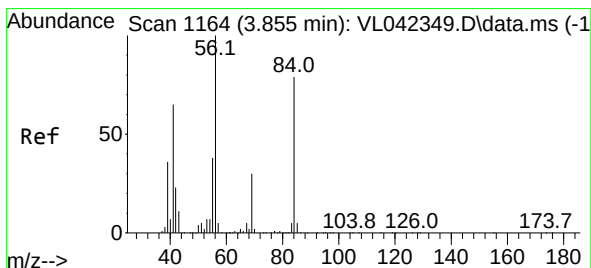
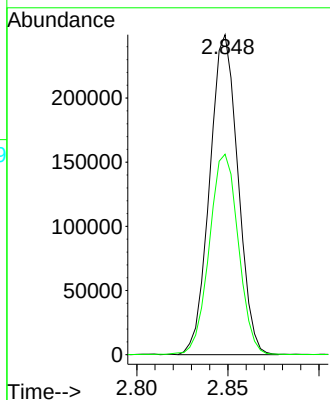
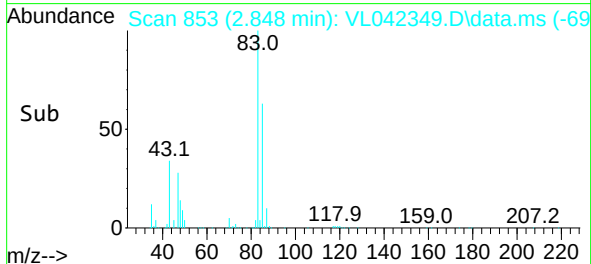
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



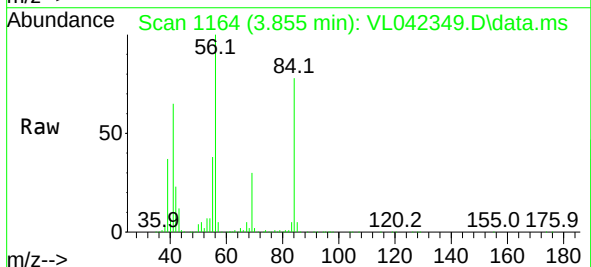
Tgt Ion: 83 Resp: 269088
Ion Ratio Lower Upper
83 100
85 62.5 50.0 75.0

Manual Integrations
APPROVED

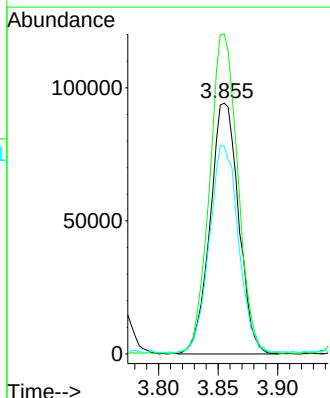
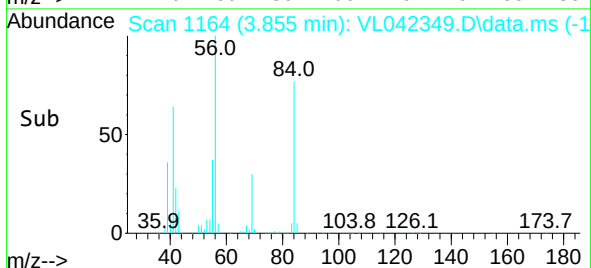
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

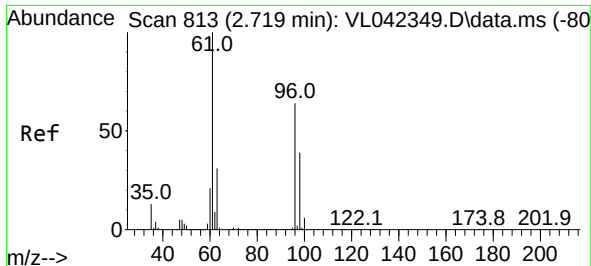


#30
Cyclohexane
Concen: 9.517 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



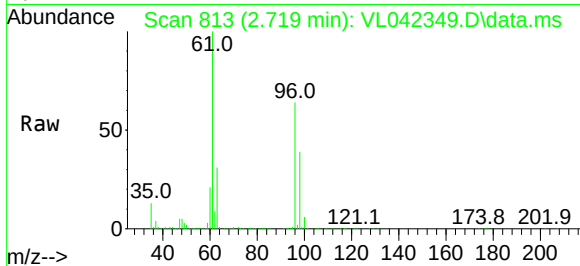
Tgt Ion: 84 Resp: 157035
Ion Ratio Lower Upper
84 100
56 126.2 101.0 151.4
41 84.2 67.4 101.0





#31
 cis-1,2-Dichloroethene
 Concen: 9.397 ppbv
 RT: 2.719 min Scan# 813
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44

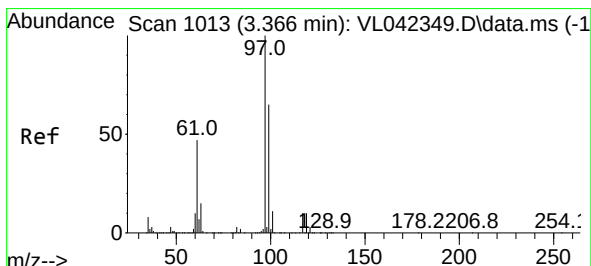
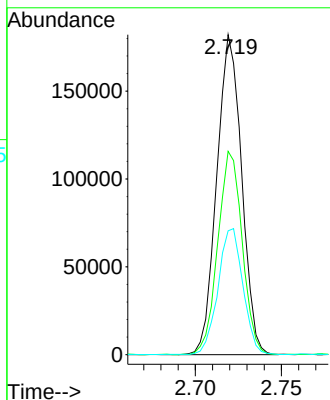
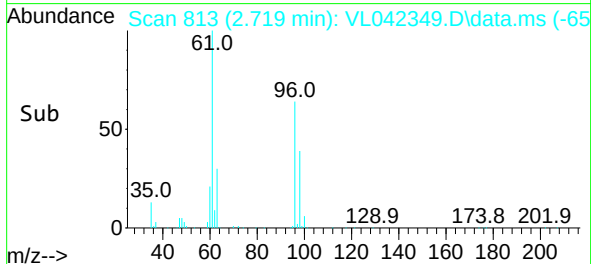
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



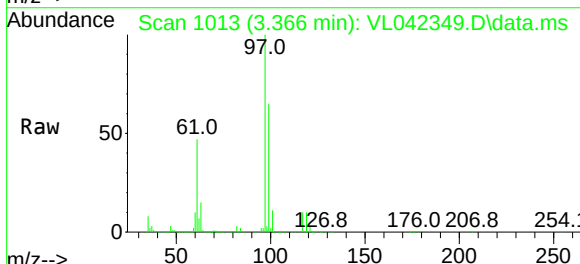
Tgt Ion: 61 Resp: 18308
 Ion Ratio Lower Upper
 61 100
 96 63.5 50.8 76.2
 98 38.6 30.9 46.3

Manual Integrations
 APPROVED

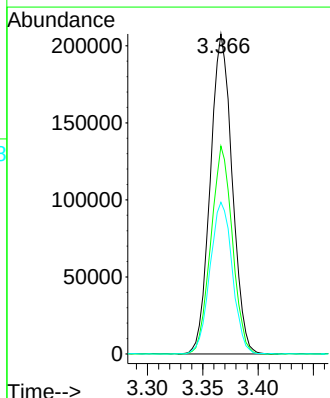
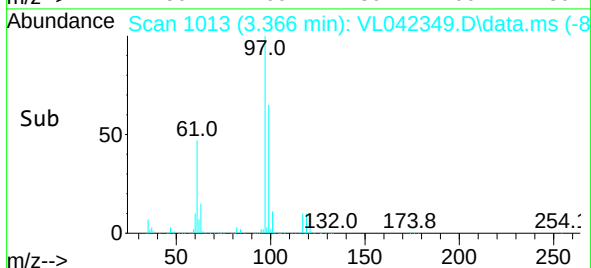
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

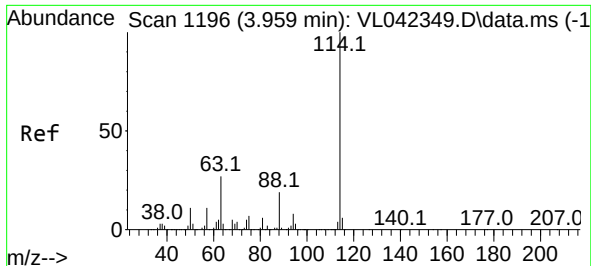


#32
 1,1,1-Trichloroethane
 Concen: 9.187 ppbv
 RT: 3.366 min Scan# 1013
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44



Tgt Ion: 97 Resp: 285336
 Ion Ratio Lower Upper
 97 100
 99 63.7 51.0 76.4
 61 48.5 38.8 58.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

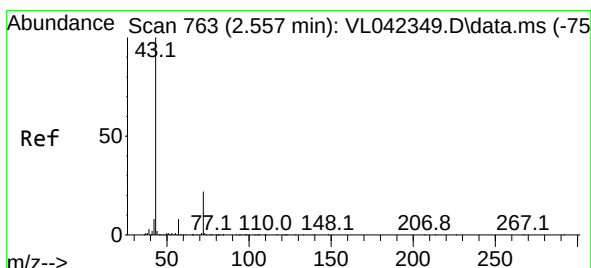
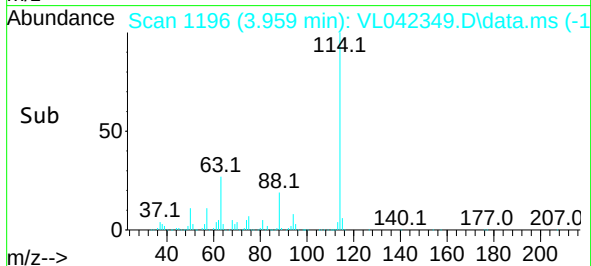
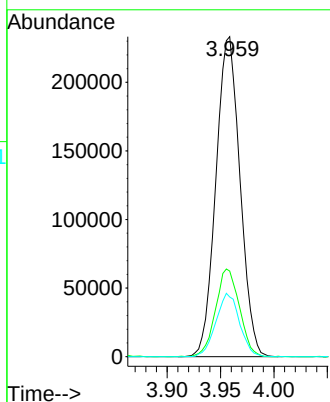
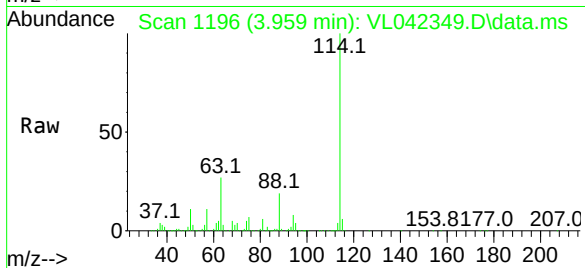
Tgt Ion:114 Resp: 366544

Ion	Ratio	Lower	Upper
114	100		
63	27.2	21.8	32.6
88	19.4	15.5	23.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#34

2-Butanone

Concen: 8.683 ppbv

RT: 2.557 min Scan# 763

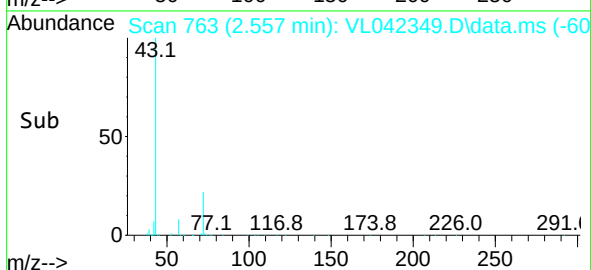
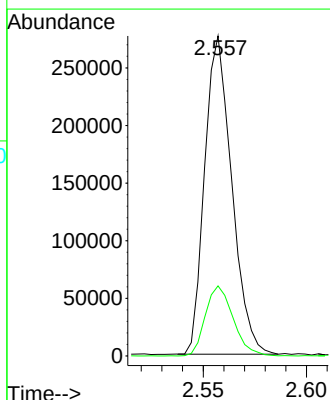
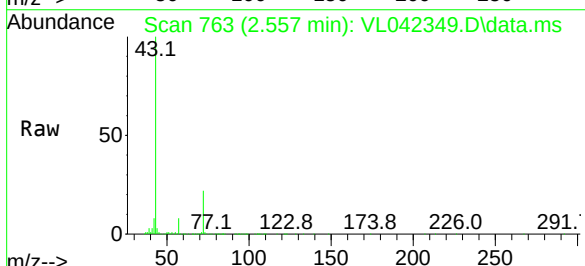
Delta R.T. 0.000 min

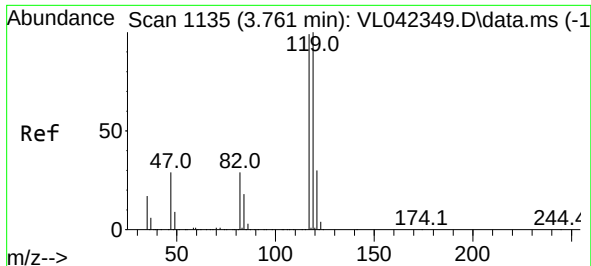
Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

Tgt Ion: 43 Resp: 251704

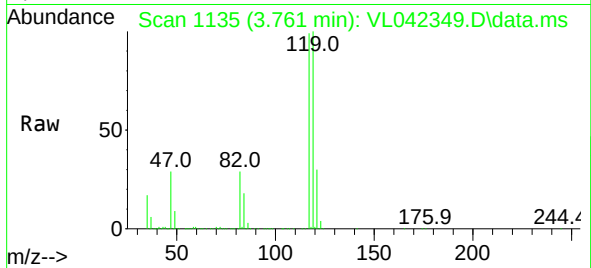
Ion	Ratio	Lower	Upper
43	100		
72	22.7	18.2	27.2





#35
Carbon Tetrachloride
Concen: 8.513 ppbv
RT: 3.761 min Scan# 1135
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

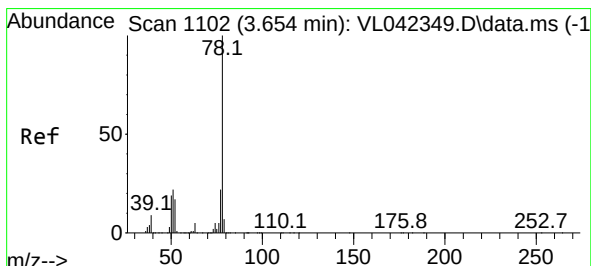
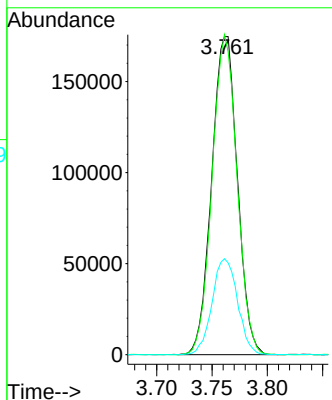
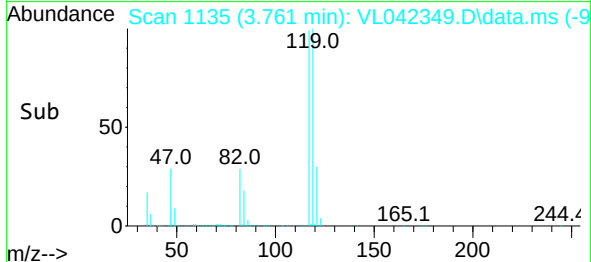
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion:117 Resp: 28240
Ion Ratio Lower Upper
117 100
119 100.6 80.5 120.7
121 30.2 24.2 36.2

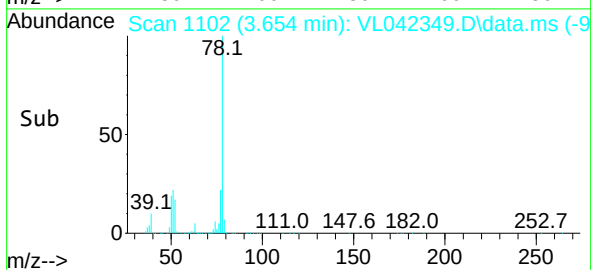
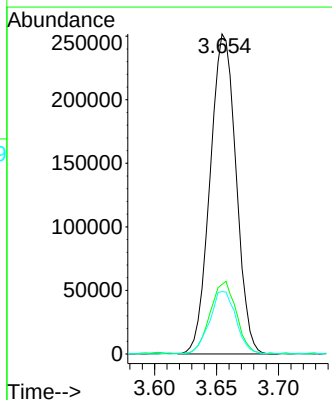
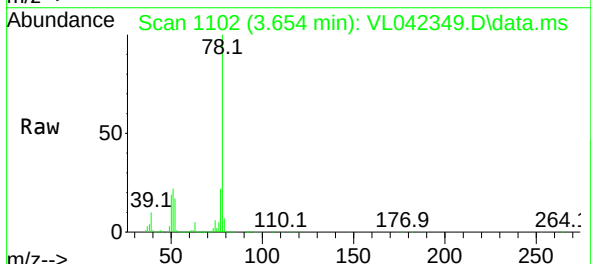
Manual Integrations
APPROVED

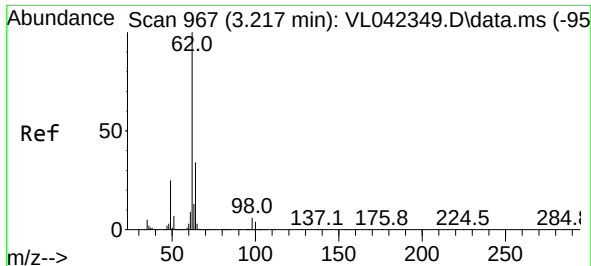
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#36
Benzene
Concen: 9.292 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

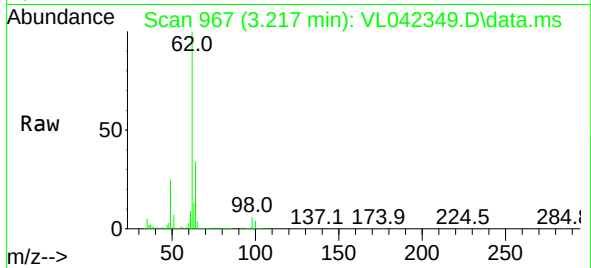
Tgt Ion: 78 Resp: 367355
Ion Ratio Lower Upper
78 100
77 21.7 17.4 26.0
50 19.4 15.5 23.3





#37
1,2-Dichloroethane
Concen: 9.145 ppbv
RT: 3.217 min Scan# 967
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

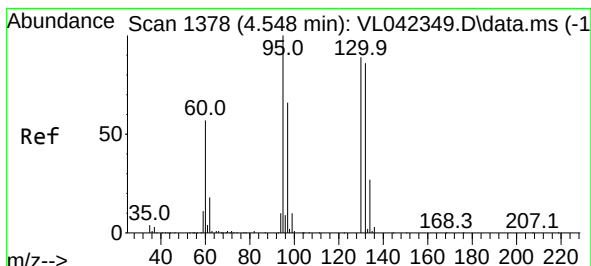
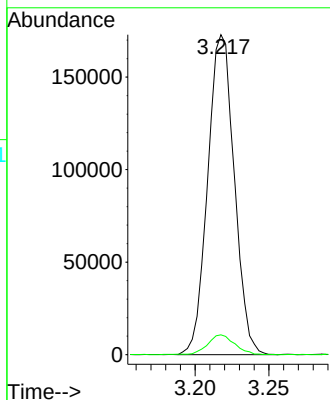
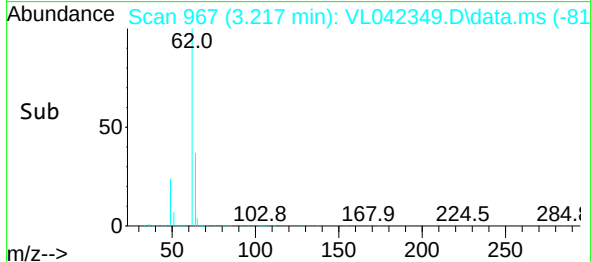
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



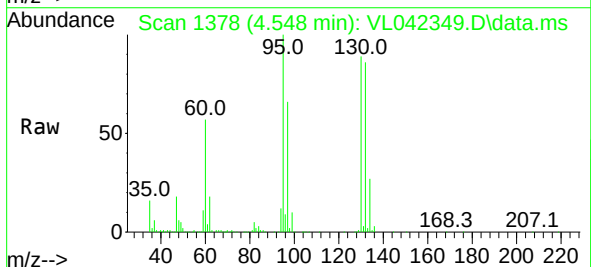
Tgt Ion: 62 Resp: 21699
Ion Ratio Lower Upper
62 100
98 6.4 5.1 7.7

Manual Integrations
APPROVED

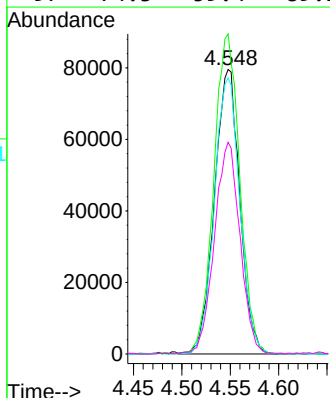
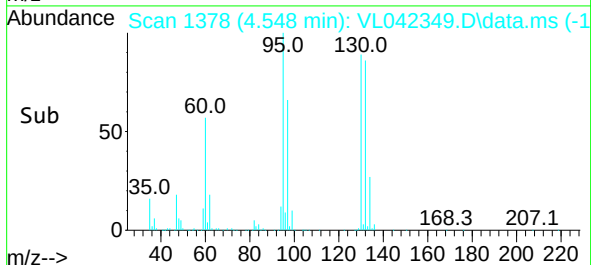
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

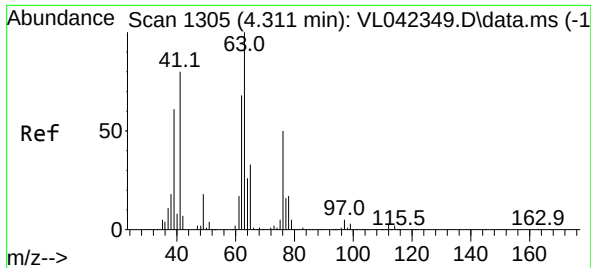


#38
Trichloroethene
Concen: 8.352 ppbv
RT: 4.548 min Scan# 1378
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



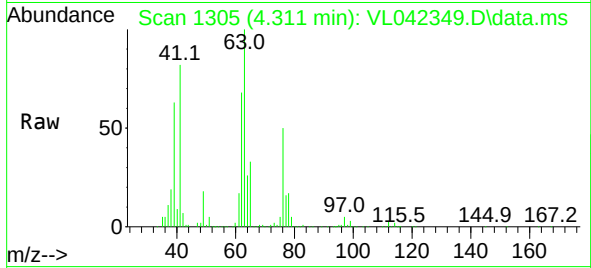
Tgt Ion:130 Resp: 144767
Ion Ratio Lower Upper
130 100
95 112.2 89.8 134.6
132 97.1 77.7 116.5
97 74.3 59.4 89.2





#39
1,2-Dichloropropane
Concen: 9.197 ppbv
RT: 4.311 min Scan# 1305
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

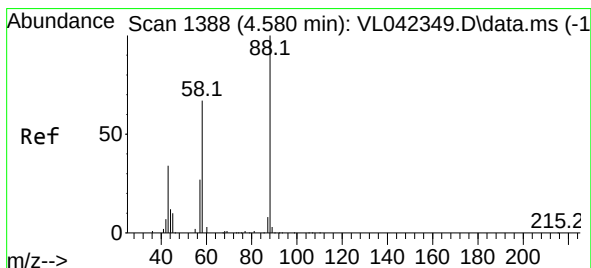
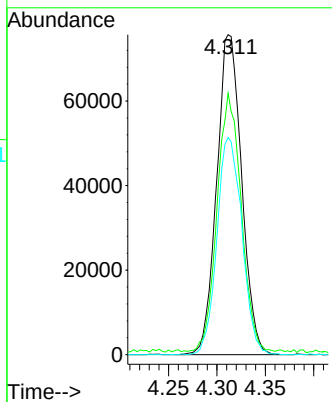
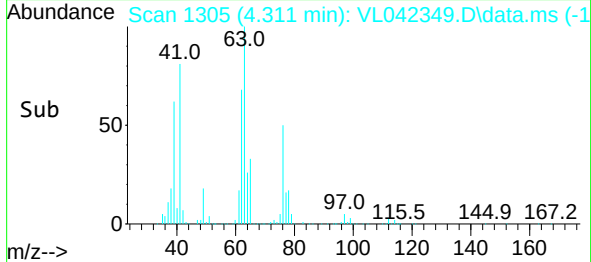
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



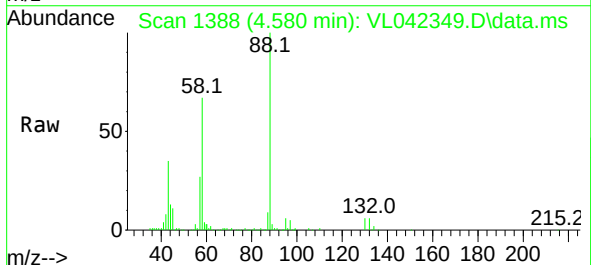
Tgt Ion: 63 Resp: 13560
Ion Ratio Lower Upper
63 100
41 80.2 64.2 96.2
62 67.9 54.3 81.5

Manual Integrations
APPROVED

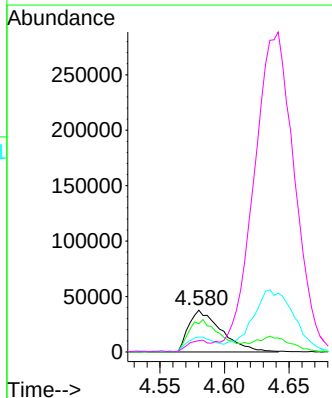
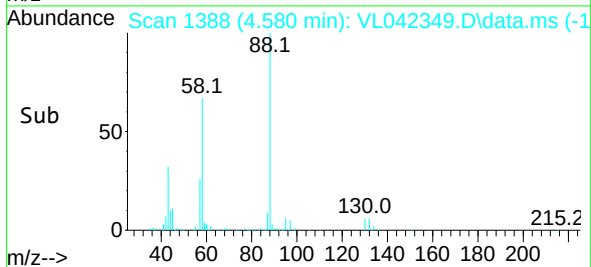
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

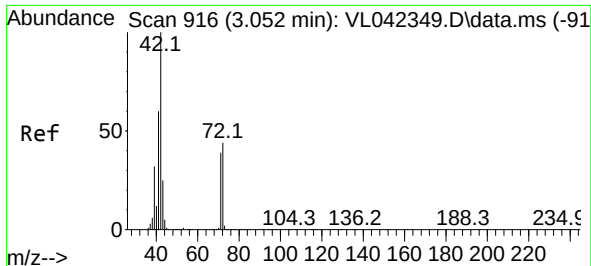


#40
1,4-Dioxane
Concen: 8.348 ppbv
RT: 4.580 min Scan# 1388
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



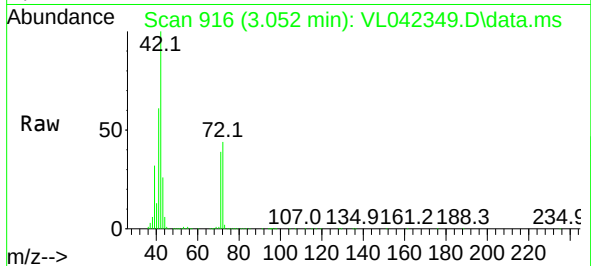
Tgt Ion: 88 Resp: 66662
Ion Ratio Lower Upper
88 100
58 76.7 61.4 92.0
43 29.0 23.2 34.8
57 0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 8.950 ppbv
RT: 3.052 min Scan# 916
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

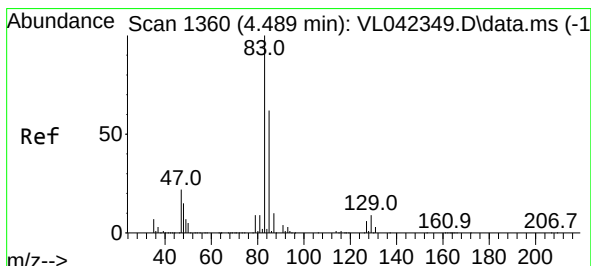
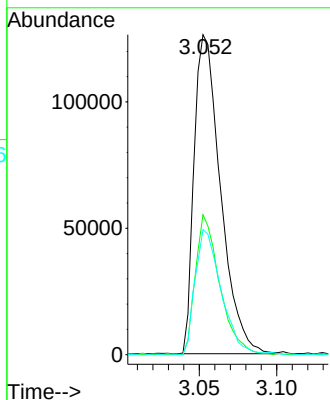
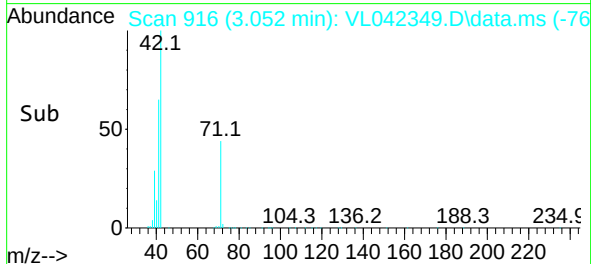
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



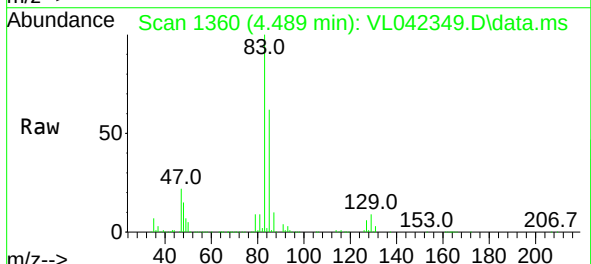
Tgt Ion: 42 Resp: 149905
Ion Ratio Lower Upper
42 100
72 40.4 32.3 48.5
71 39.3 31.4 47.2

Manual Integrations
APPROVED

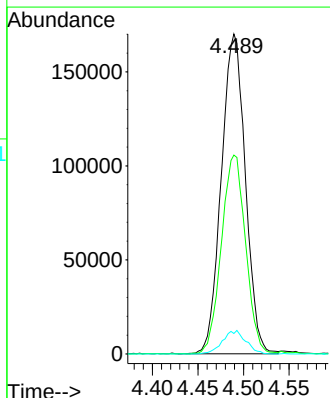
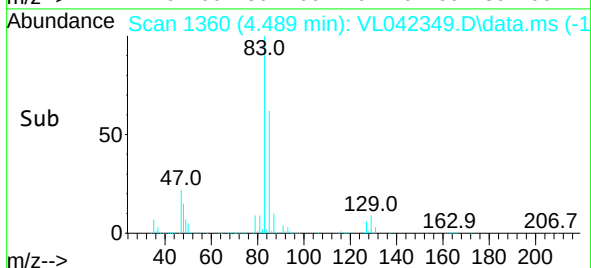
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

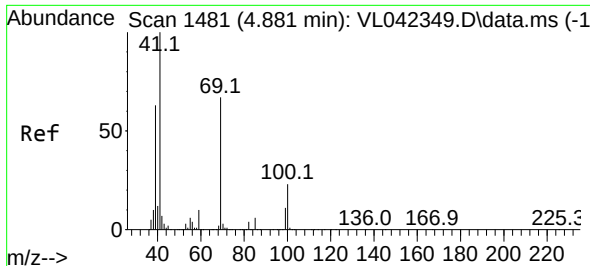


#42
Bromodichloromethane
Concen: 9.456 ppbv
RT: 4.489 min Scan# 1360
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



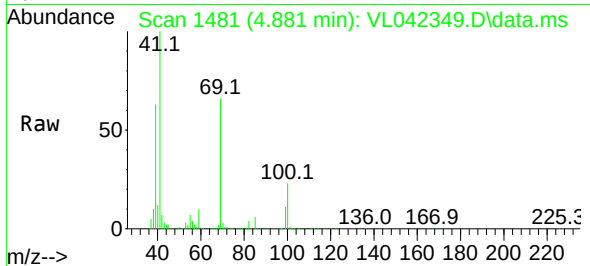
Tgt Ion: 83 Resp: 312268
Ion Ratio Lower Upper
83 100
85 62.1 49.7 74.5
127 6.4 5.1 7.7





#43
Methyl Methacrylate
Concen: 8.876 ppbv
RT: 4.881 min Scan# 1481
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

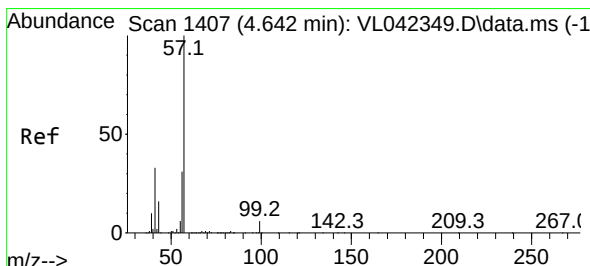
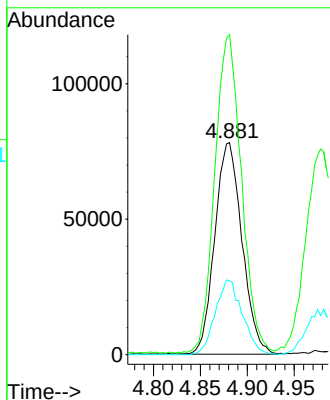
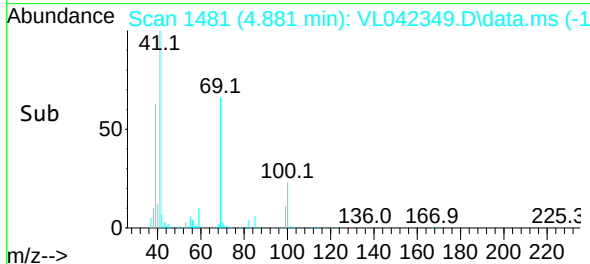
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



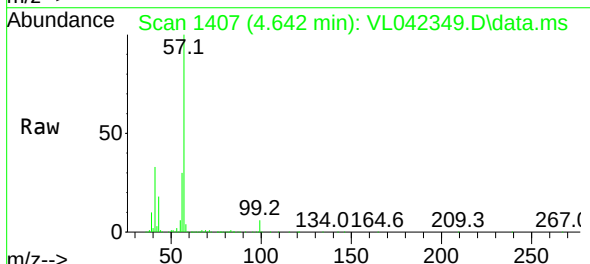
Tgt Ion: 69 Resp: 15750
Ion Ratio Lower Upper
69 100
41 148.2 118.6 177.8
100 35.2 28.2 42.2

Manual Integrations
APPROVED

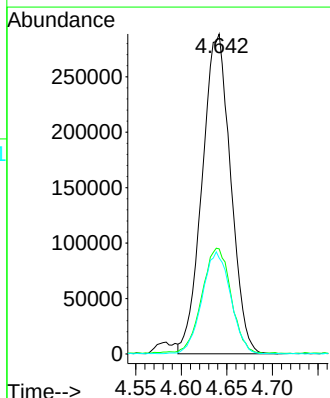
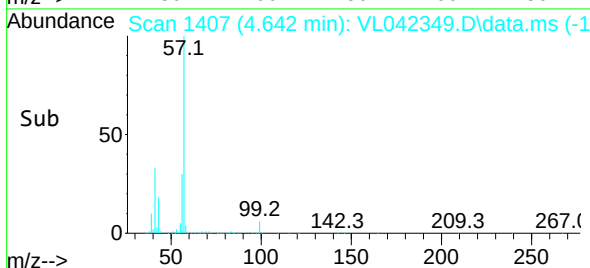
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

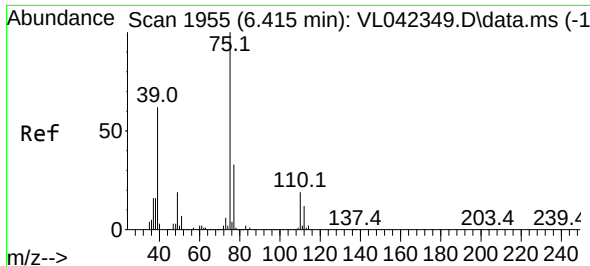


#44
2,2,4-Trimethylpentane
Concen: 9.157 ppbv
RT: 4.642 min Scan# 1407
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



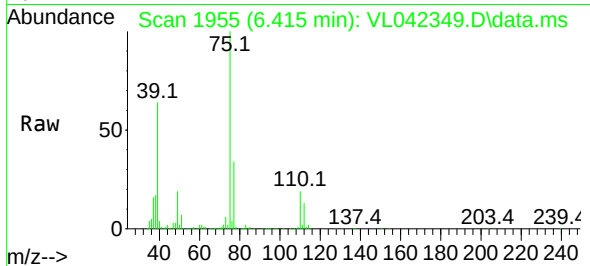
Tgt Ion: 57 Resp: 626085
Ion Ratio Lower Upper
57 100
41 34.0 27.2 40.8
56 32.1 25.7 38.5





#45
 t-1,3-Dichloropropene
 Concen: 9.233 ppbv
 RT: 6.415 min Scan# 1955
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44

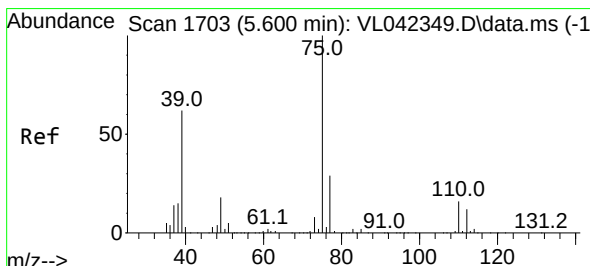
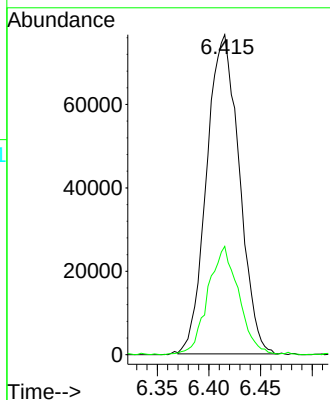
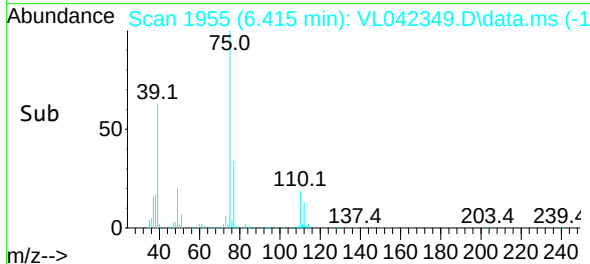
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



Tgt Ion: 75 Resp: 16822
 Ion Ratio Lower Upper
 75 100
 77 33.8 27.0 40.6

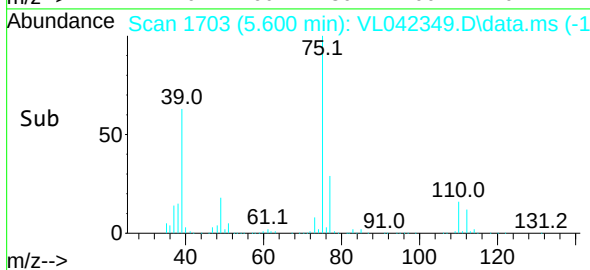
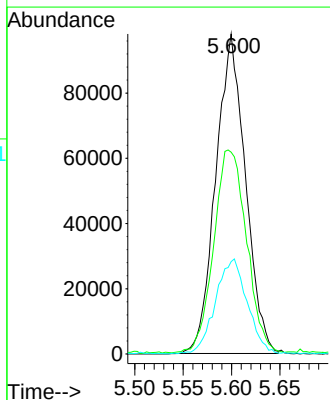
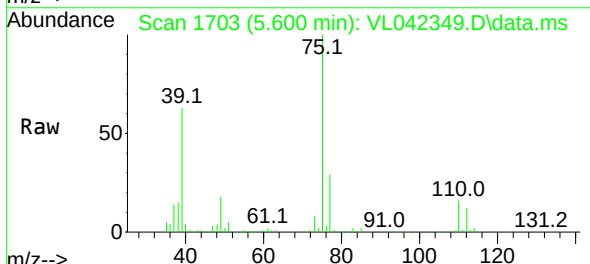
Manual Integrations
 APPROVED

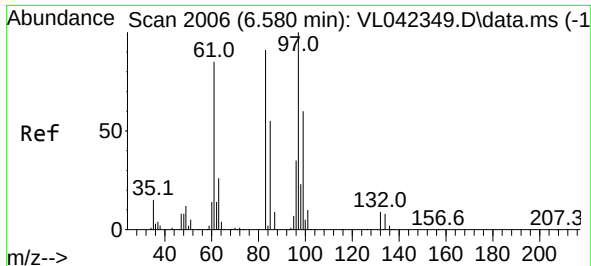
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#46
 cis-1,3-Dichloropropene
 Concen: 9.377 ppbv
 RT: 5.600 min Scan# 1703
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44

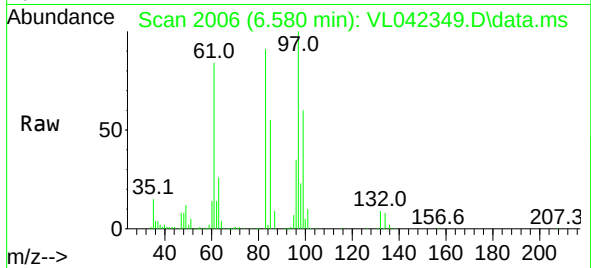
Tgt Ion: 75 Resp: 208811
 Ion Ratio Lower Upper
 75 100
 39 62.5 50.0 75.0
 77 28.8 23.0 34.6





#47
1,1,2-Trichloroethane
Concen: 9.181 ppbv
RT: 6.580 min Scan# 2006
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

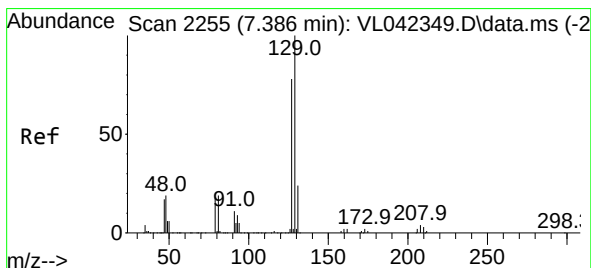
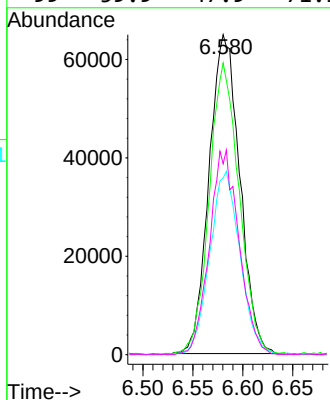
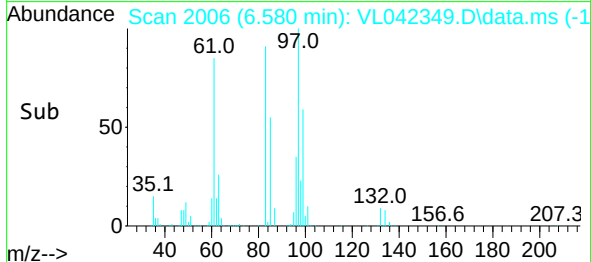
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



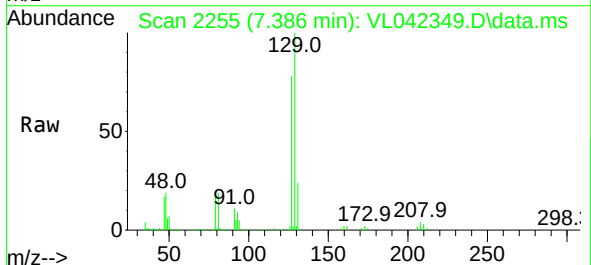
Tgt Ion: 97 Resp: 137898
Ion Ratio Lower Upper
97 100
83 91.0 72.8 109.2
85 55.3 44.2 66.4
99 59.9 47.9 71.9

Manual Integrations
APPROVED

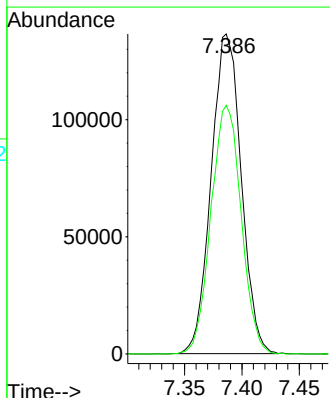
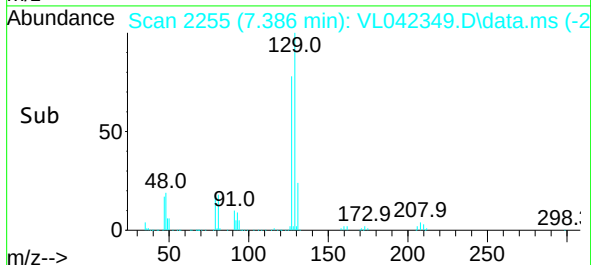
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

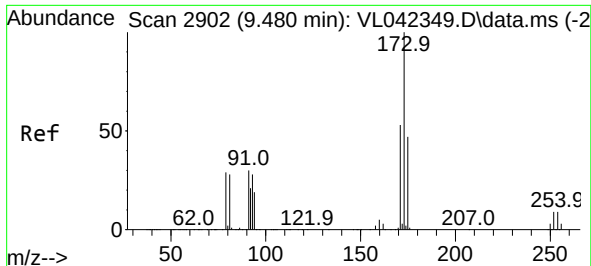


#48
Dibromochloromethane
Concen: 9.388 ppbv
RT: 7.386 min Scan# 2255
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



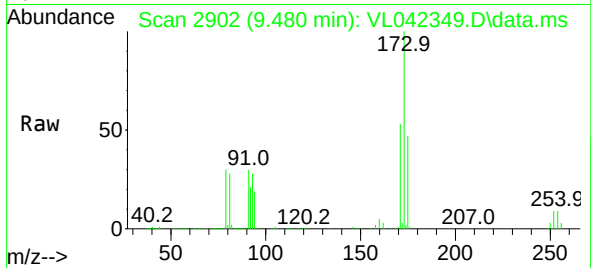
Tgt Ion:129 Resp: 248954
Ion Ratio Lower Upper
129 100
127 78.2 39.1 117.3





#49
Bromoform
Concen: 9.734 ppbv
RT: 9.480 min Scan# 2902
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

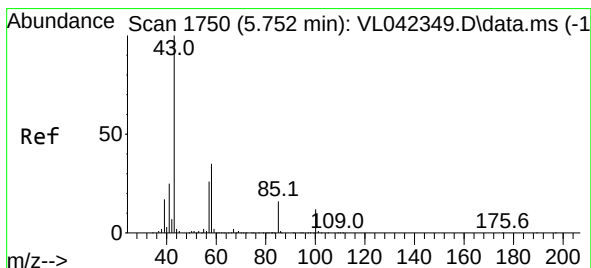
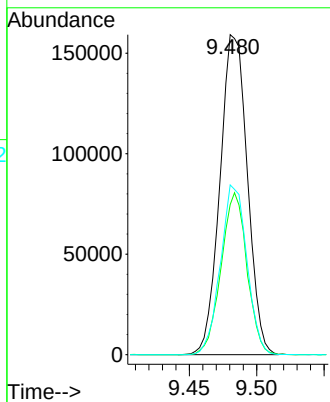
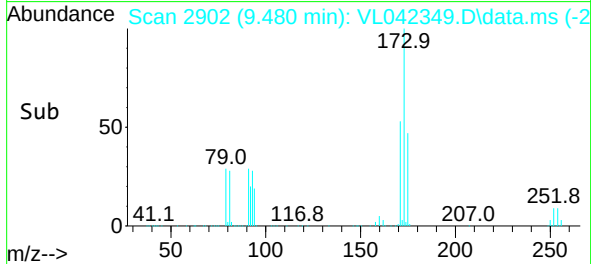
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 173 Resp: 225700
Ion Ratio Lower Upper
173 100
175 47.7 38.2 57.2
171 51.1 40.9 61.3

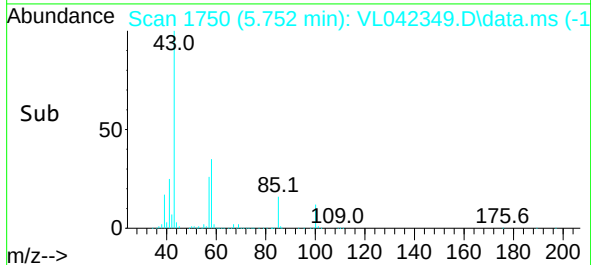
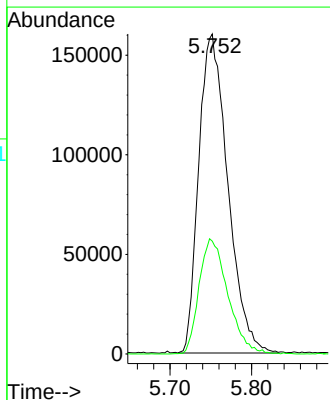
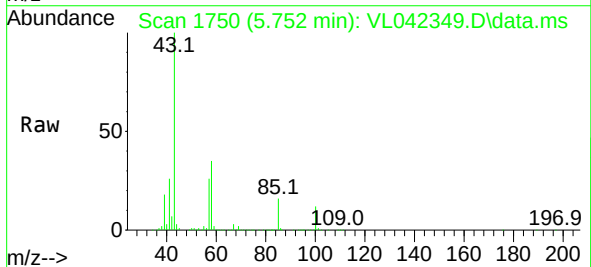
Manual Integrations
APPROVED

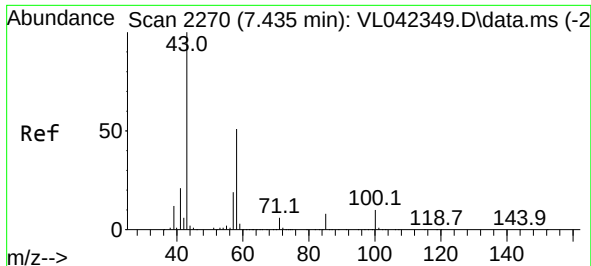
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#50
4-Methyl-2-Pentanone
Concen: 8.215 ppbv
RT: 5.752 min Scan# 1750
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

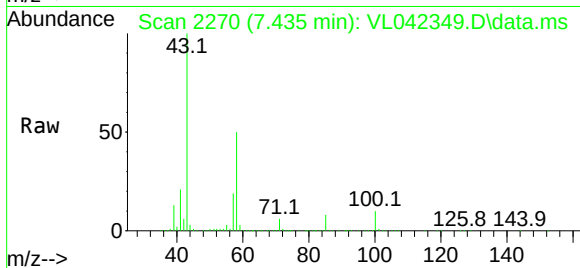
Tgt Ion: 43 Resp: 396548
Ion Ratio Lower Upper
43 100
58 35.8 28.6 43.0





#51
2-Hexanone
Concen: 7.511 ppbv
RT: 7.435 min Scan# 2270
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

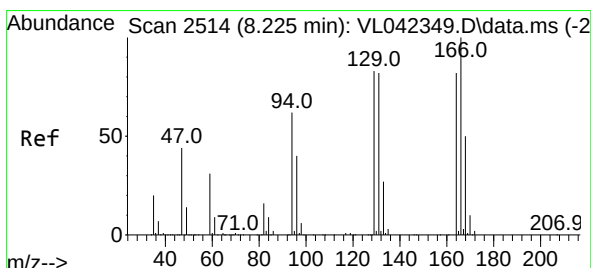
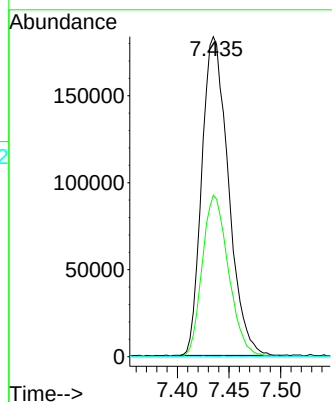
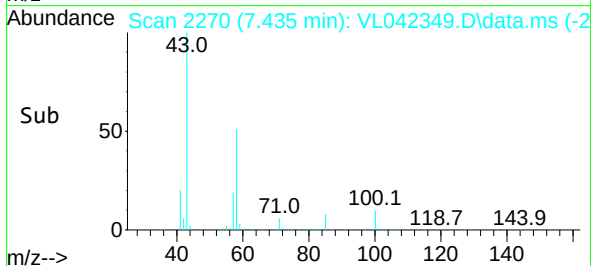
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 43 Resp: 32716
Ion Ratio Lower Upper
43 100
58 50.3 40.2 60.4
98 0.1 0.1 0.1

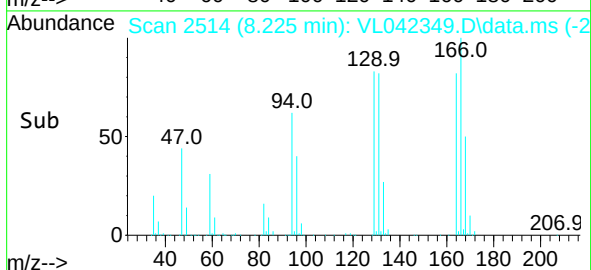
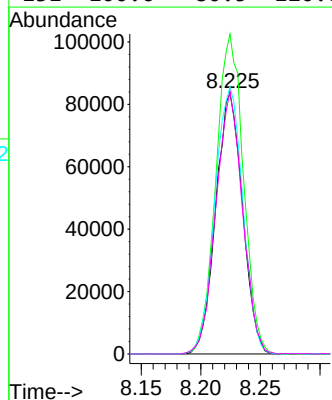
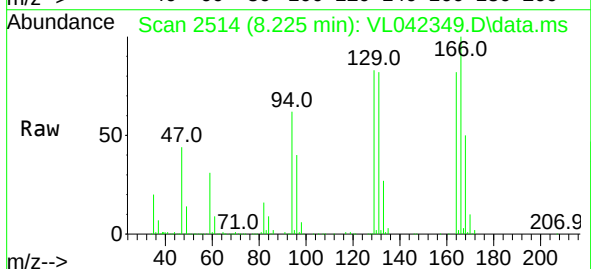
Manual Integrations
APPROVED

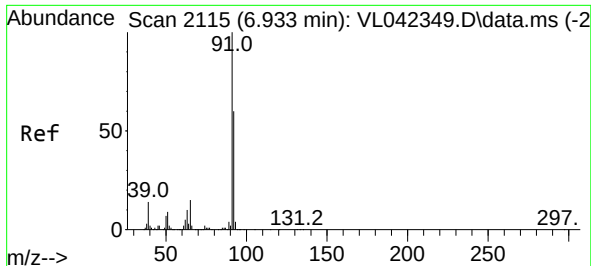
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#52
Tetrachloroethene
Concen: 8.553 ppbv
RT: 8.225 min Scan# 2514
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

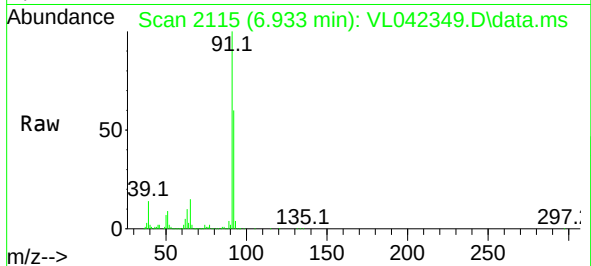
Tgt Ion:164 Resp: 130720
Ion Ratio Lower Upper
164 100
166 122.7 98.2 147.2
129 102.3 81.8 122.8
131 100.6 80.5 120.7





#53
Toluene
Concen: 9.216 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

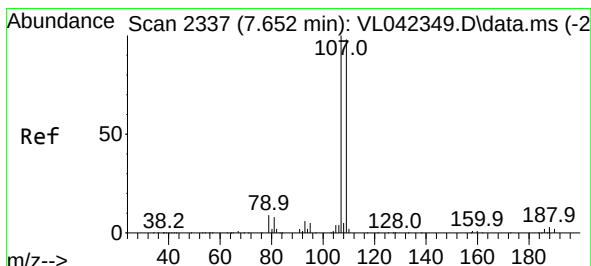
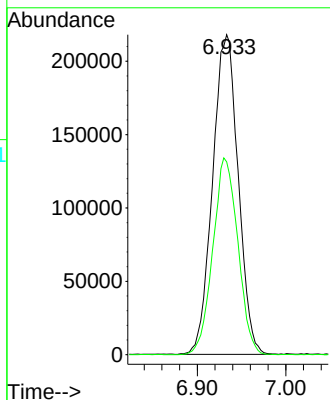
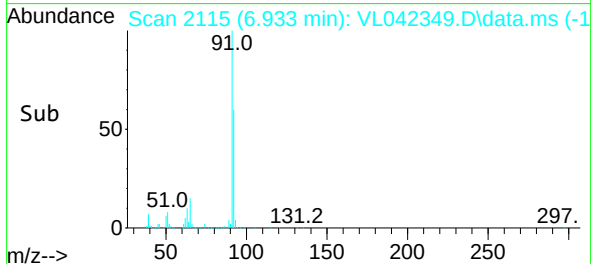
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



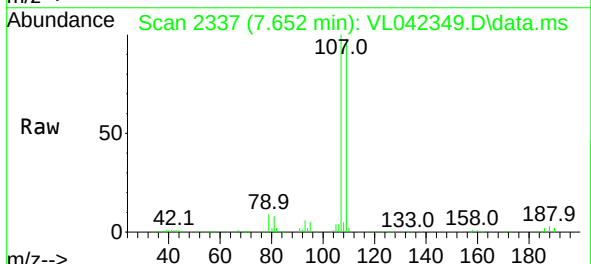
Tgt Ion: 91 Resp: 437258
Ion Ratio Lower Upper
91 100
92 60.3 48.2 72.4

Manual Integrations
APPROVED

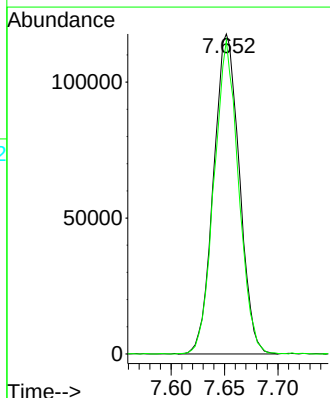
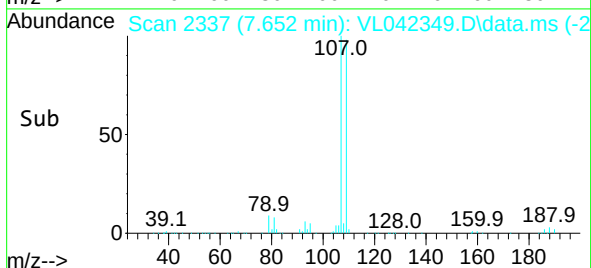
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

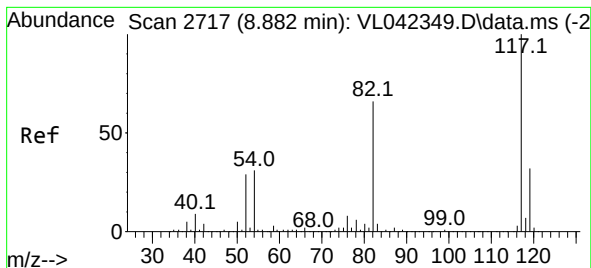


#54
1,2-Dibromoethane
Concen: 9.235 ppbv
RT: 7.652 min Scan# 2337
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



Tgt Ion:107 Resp: 197665
Ion Ratio Lower Upper
107 100
109 97.8 78.2 117.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.882 min Scan# 2717

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

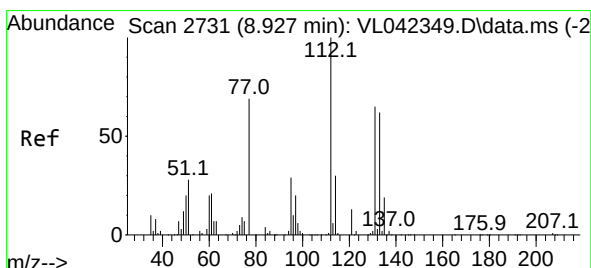
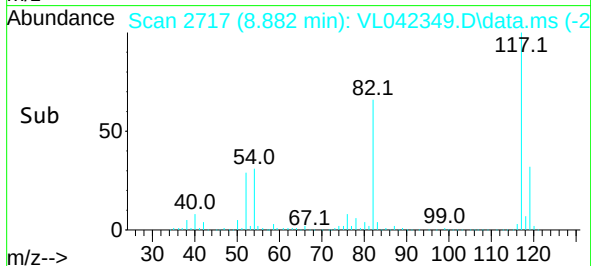
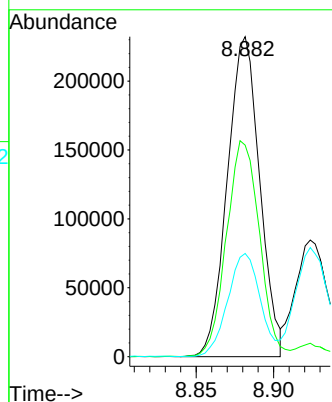
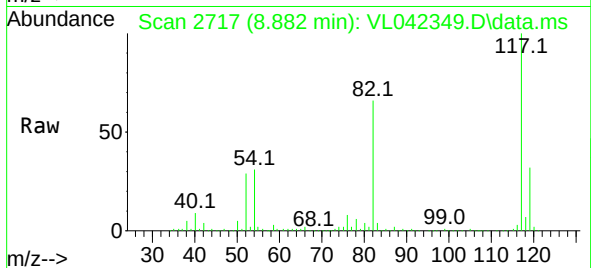
Tgt Ion:117 Resp: 338120

Ion	Ratio	Lower	Upper
117	100		
82	72.2	57.8	86.6
119	31.5	25.2	37.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#56

1,1,1,2-Tetrachloroethane

Concen: 9.091 ppbv

RT: 8.927 min Scan# 2731

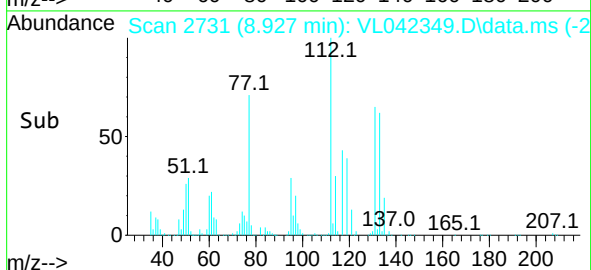
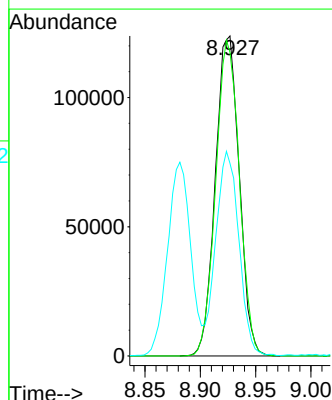
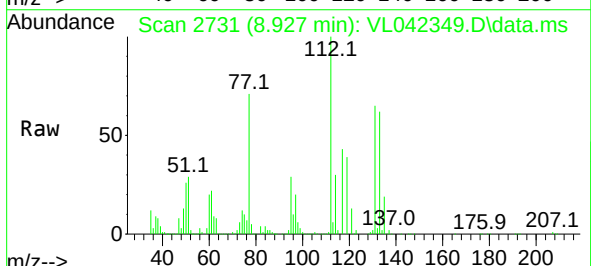
Delta R.T. 0.000 min

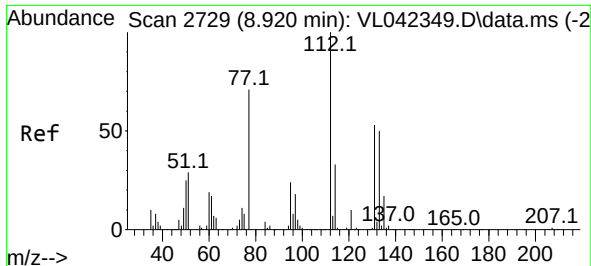
Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

Tgt Ion:131 Resp: 186041

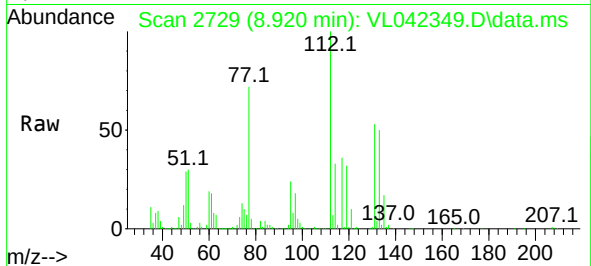
Ion	Ratio	Lower	Upper
131	100		
133	97.9	78.3	117.5
119	60.9	48.7	73.1





#57
Chlorobenzene
Concen: 9.187 ppbv
RT: 8.920 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

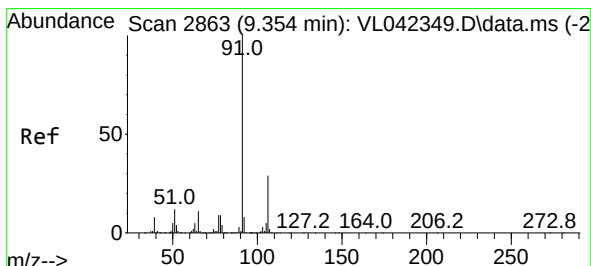
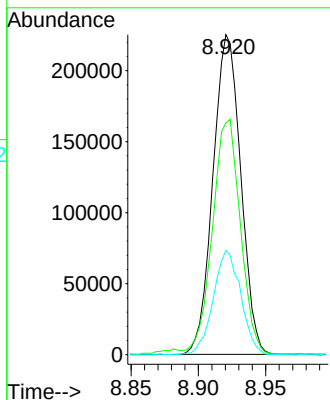
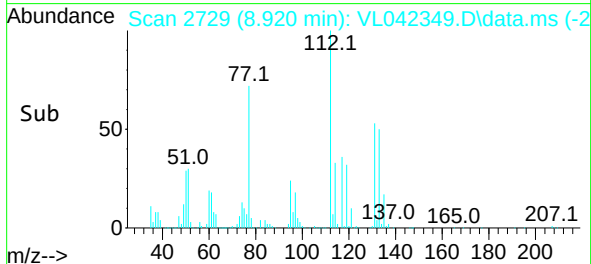
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 112 Resp: 323084
Ion Ratio Lower Upper
112 100
77 72.2 57.8 86.6
114 32.6 29.3 35.9

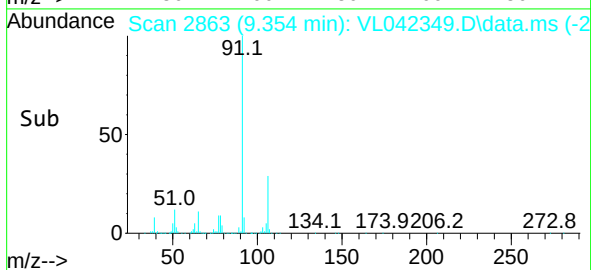
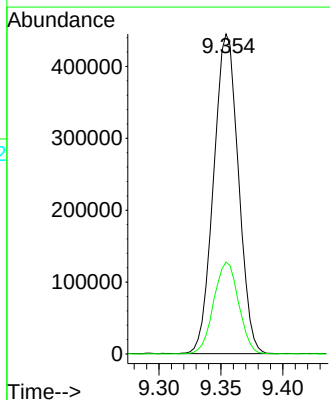
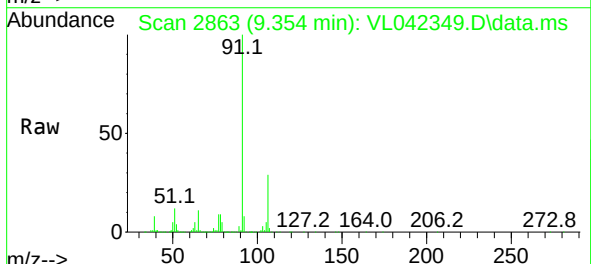
Manual Integrations
APPROVED

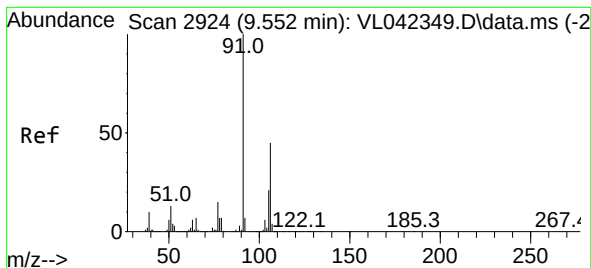
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#58
Ethyl Benzene
Concen: 9.248 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

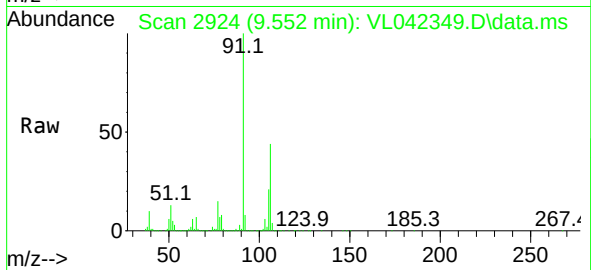
Tgt Ion: 91 Resp: 619581
Ion Ratio Lower Upper
91 100
106 28.7 23.0 34.4





#59
m/p-Xylene
Concen: 18.187 ppbv m
RT: 9.552 min Scan# 2924
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

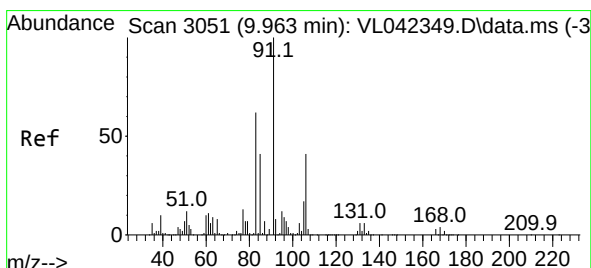
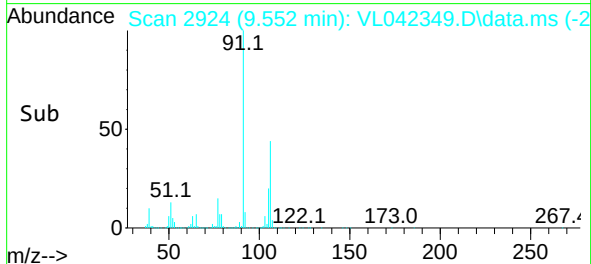
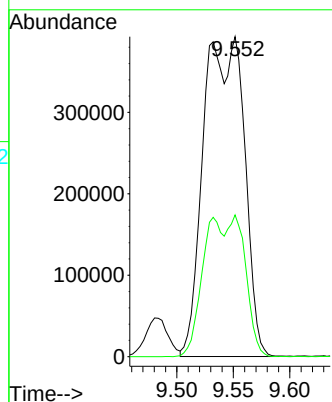
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 91 Resp: 984458
Ion Ratio Lower Upper
91 100
106 44.3 35.4 53.2

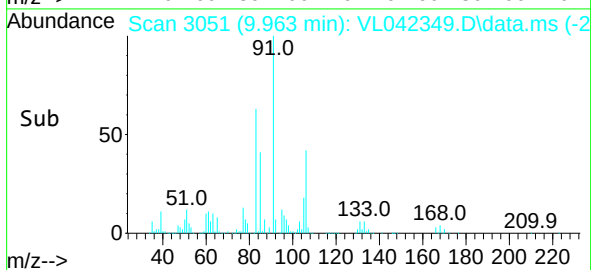
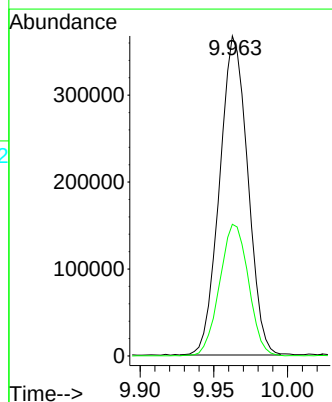
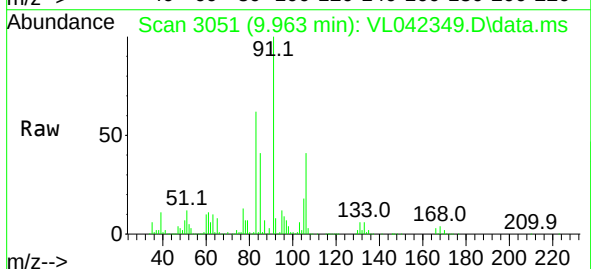
Manual Integrations
APPROVED

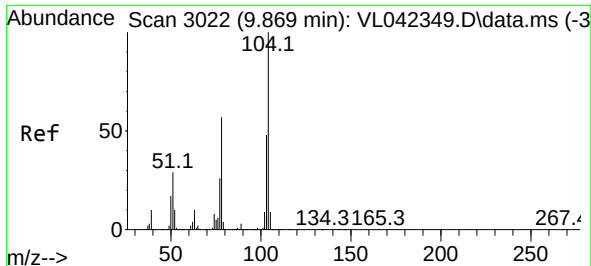
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#60
o-Xylene
Concen: 8.972 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 91 Resp: 487616
Ion Ratio Lower Upper
91 100
106 42.3 21.1 63.4





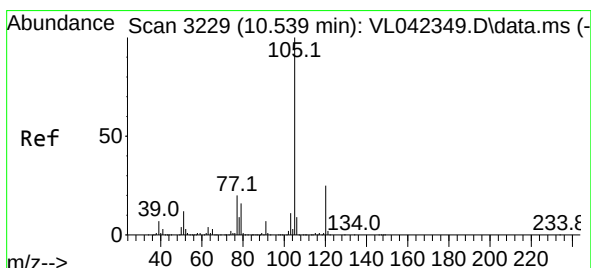
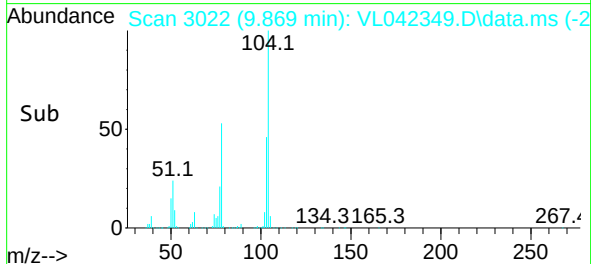
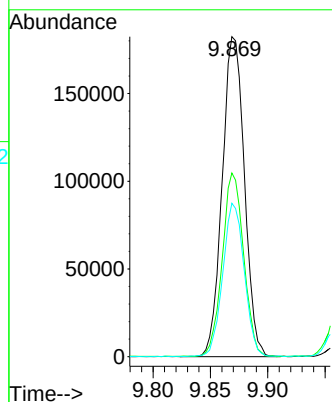
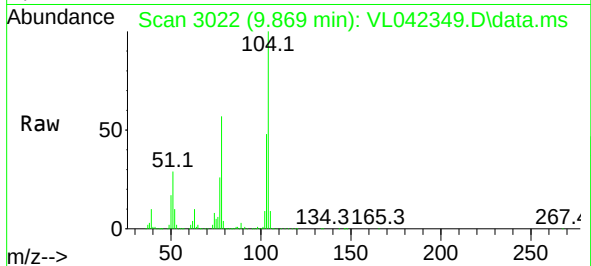
#61
Styrene
Concen: 9.464 ppbv
RT: 9.869 min Scan# 3022
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

Tgt Ion:104 Resp: 24548
Ion Ratio Lower Upper
104 100
78 55.7 44.6 66.8
103 46.7 37.4 56.0

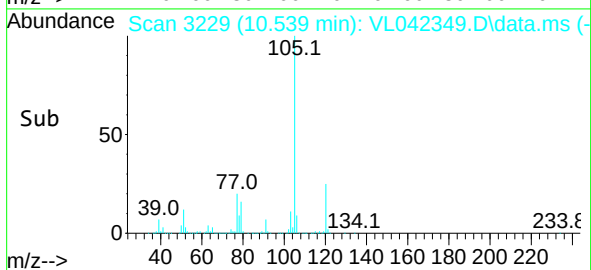
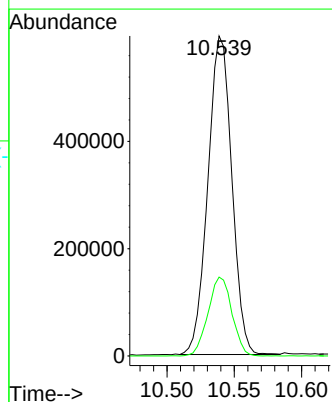
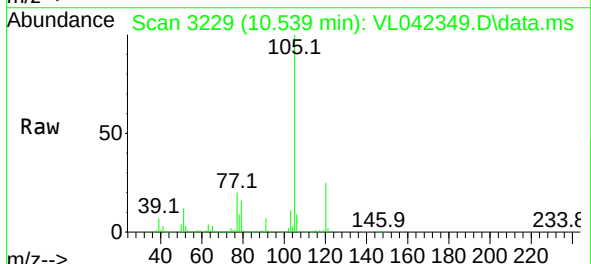
Manual Integrations
APPROVED

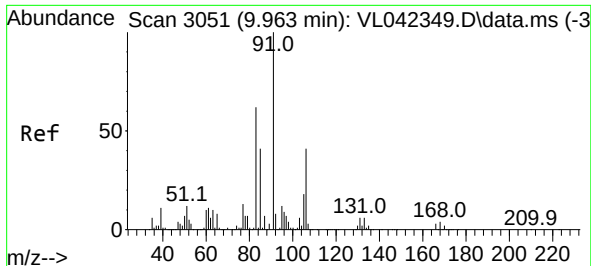
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#62
Isopropylbenzene
Concen: 9.197 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

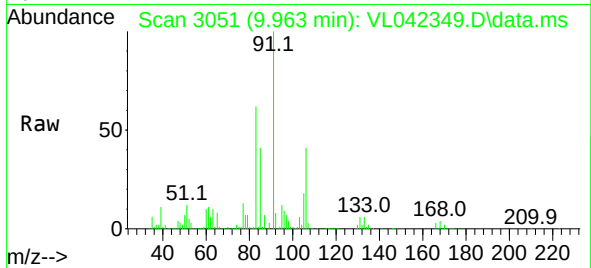
Tgt Ion:105 Resp: 733788
Ion Ratio Lower Upper
105 100
120 24.8 19.8 29.8





#63
1,1,2,2-Tetrachloroethane
Concen: 8.355 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

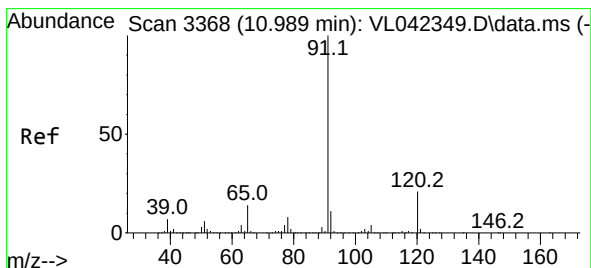
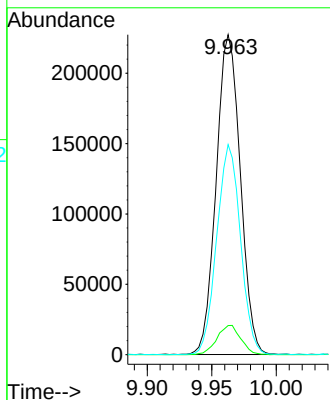
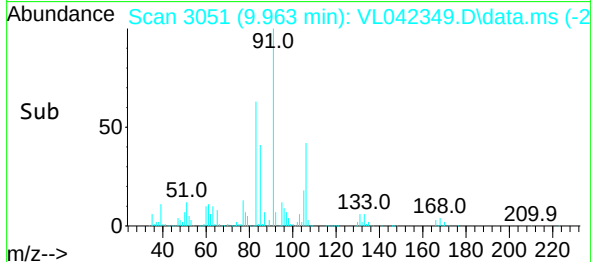
Instrument : MSVOA_L
ClientSampleId : VSTDICCC010



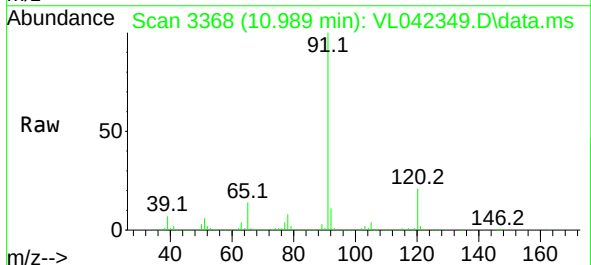
Tgt Ion: 83 Resp: 29504
Ion Ratio Lower Upper
83 100
131 9.1 4.5 13.7
85 64.7 32.4 97.0

Manual Integrations
APPROVED

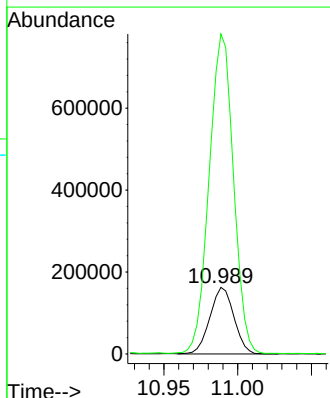
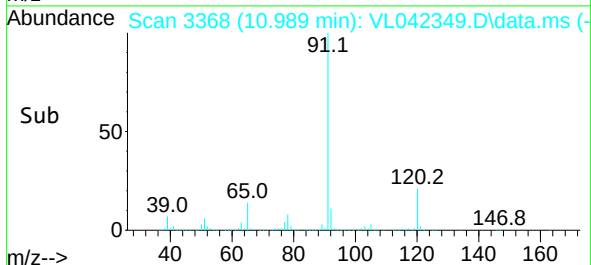
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

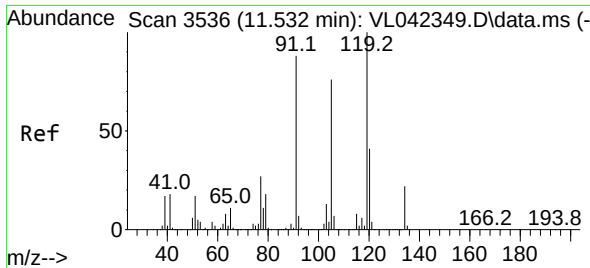


#64
n-propylbenzene
Concen: 9.144 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



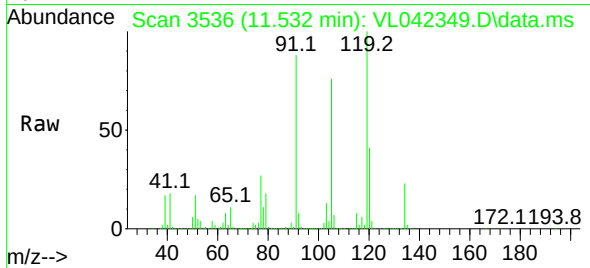
Tgt Ion:120 Resp: 183390
Ion Ratio Lower Upper
120 100
91 490.5 392.4 588.6





#65
tert-Butylbenzene
Concen: 8.795 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

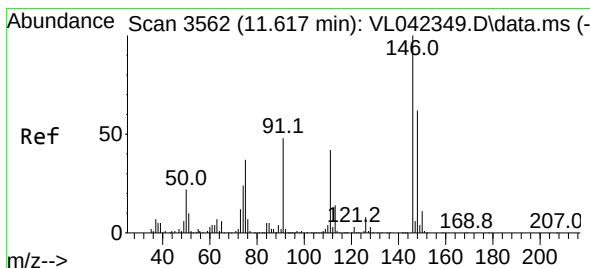
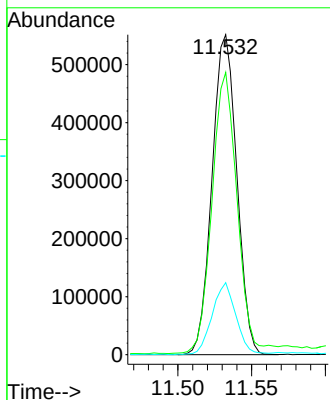
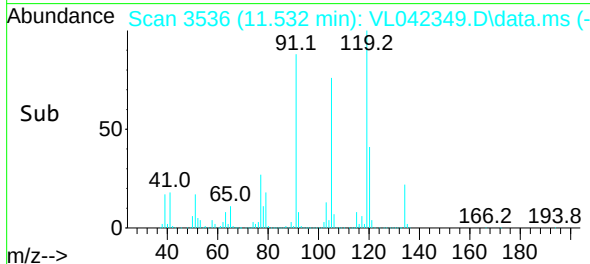
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



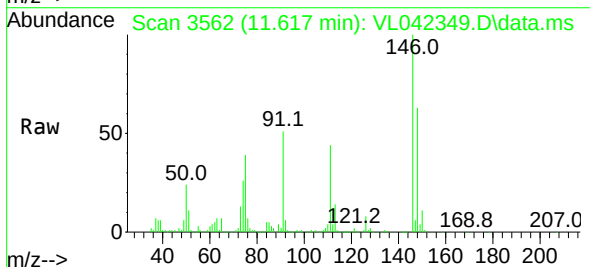
Tgt Ion: 119 Resp: 64495
Ion Ratio Lower Upper
119 100
91 93.2 74.6 111.8
134 23.5 18.8 28.2

Manual Integrations
APPROVED

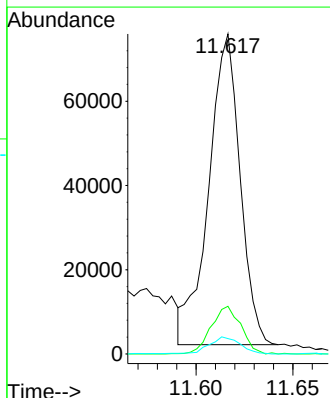
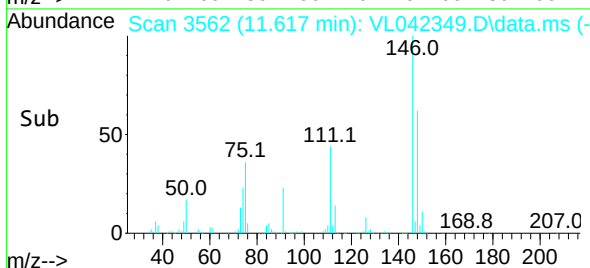
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

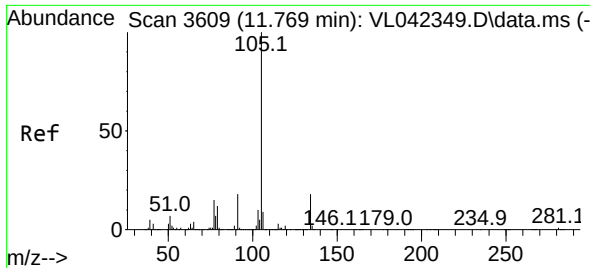


#66
Benzyl Chloride
Concen: 10.333 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



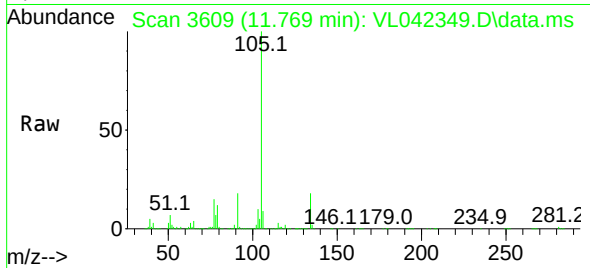
Tgt Ion: 91 Resp: 83269
Ion Ratio Lower Upper
91 100
126 14.7 11.8 17.6
128 5.6 4.5 6.7





#67
 sec-Butylbenzene
 Concen: 8.824 ppbv
 RT: 11.769 min Scan# 3609
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44

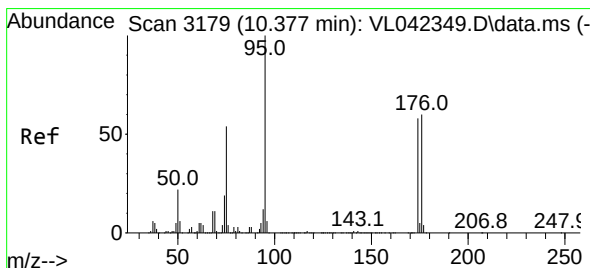
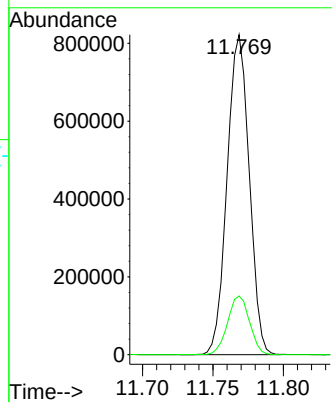
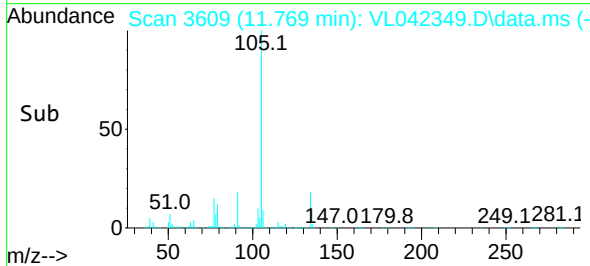
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



Tgt Ion:105 Resp: 900074
 Ion Ratio Lower Upper
 105 100
 134 18.2 14.6 21.8

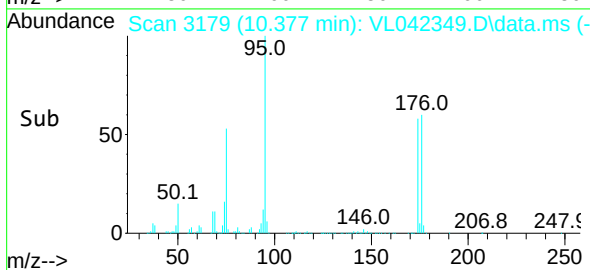
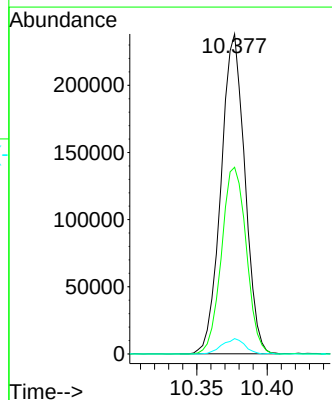
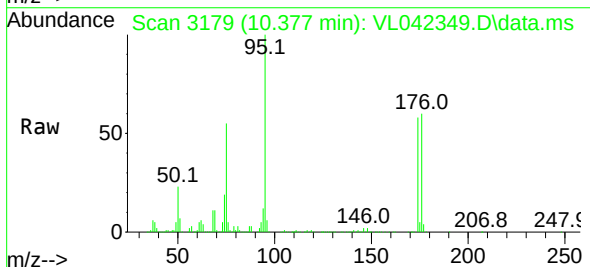
Manual Integrations
 APPROVED

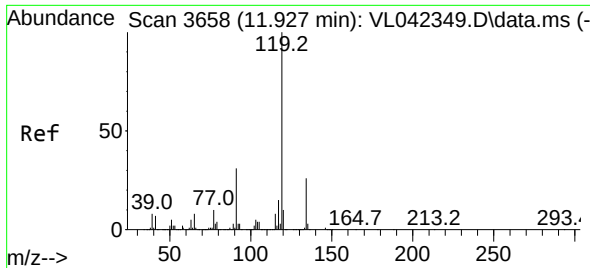
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.114 ppbv
 RT: 10.377 min Scan# 3179
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44

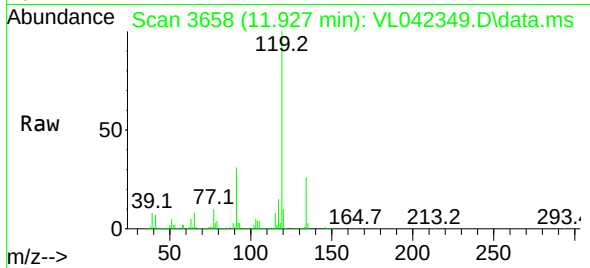
Tgt Ion: 95 Resp: 281013
 Ion Ratio Lower Upper
 95 100
 174 60.6 48.5 72.7
 175 4.6 3.7 5.5





#69
p-Isopropyltoluene
Concen: 8.790 ppbv
RT: 11.927 min Scan# 3658
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

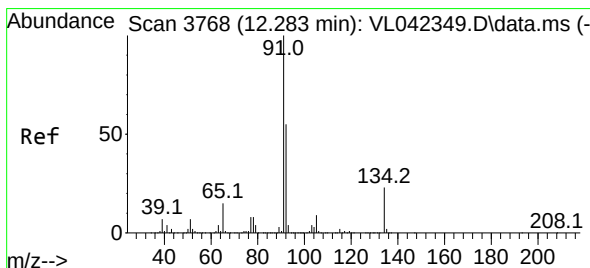
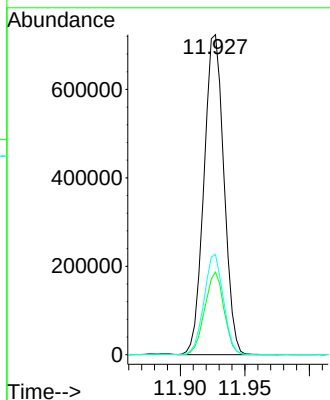
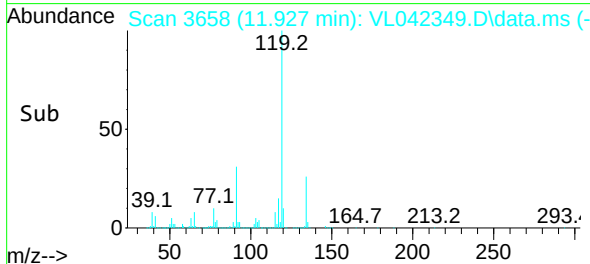
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



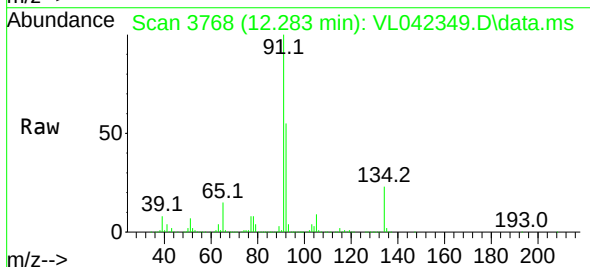
Tgt Ion:119 Resp: 77898
Ion Ratio Lower Upper
119 100
134 25.0 20.0 30.0
91 30.5 24.4 36.6

Manual Integrations
APPROVED

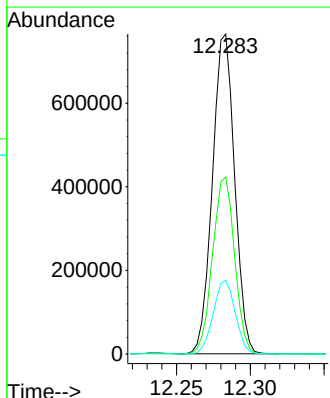
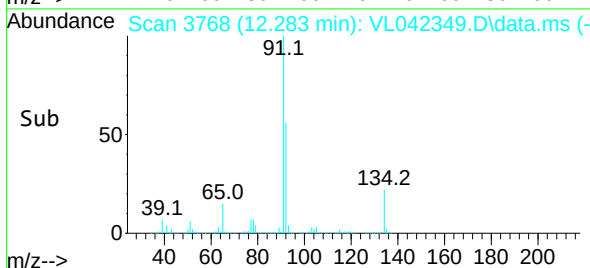
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

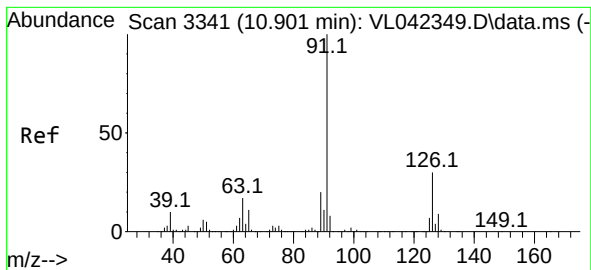


#70
n-Butylbenzene
Concen: 8.682 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



Tgt Ion: 91 Resp: 801364
Ion Ratio Lower Upper
91 100
92 55.3 44.2 66.4
134 22.8 18.2 27.4





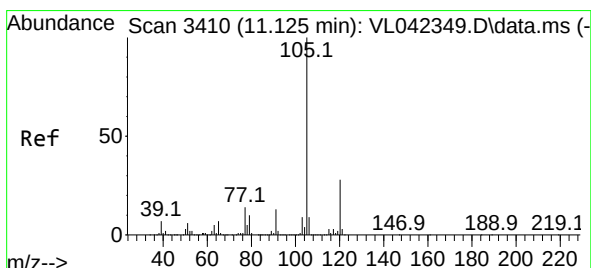
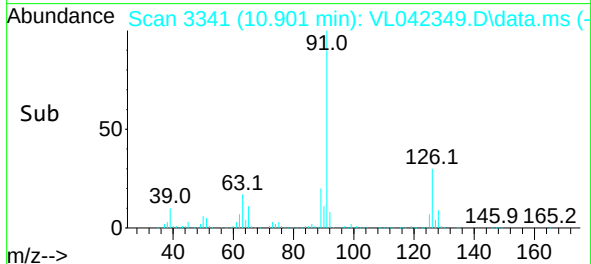
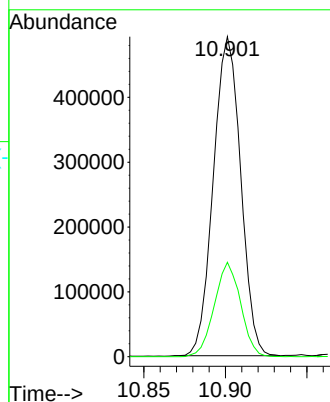
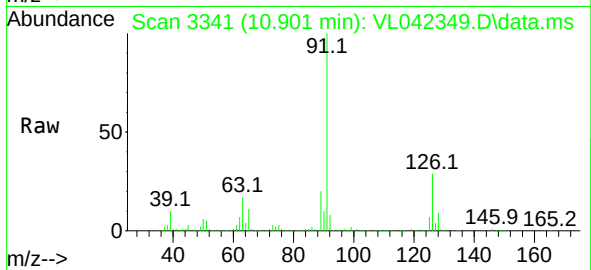
#71
2-Chlorotoluene
Concen: 9.157 ppbv
RT: 10.901 min Scan# 3341
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 91 Resp: 573039
Ion Ratio Lower Upper
91 100
126 28.4 11.4 45.4

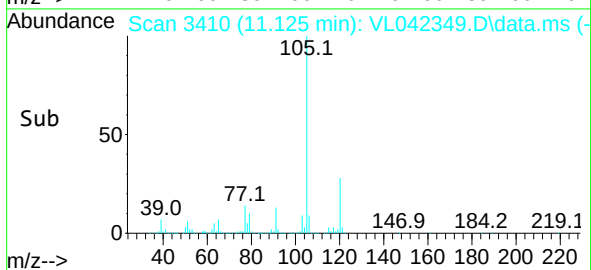
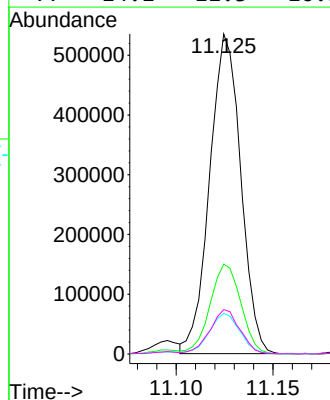
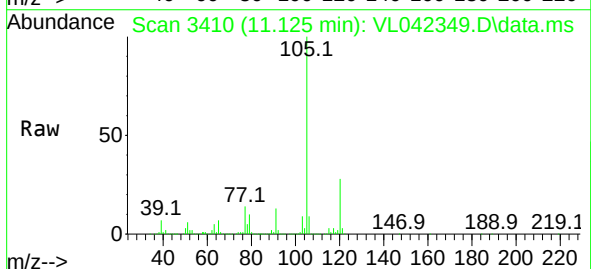
Manual Integrations
APPROVED

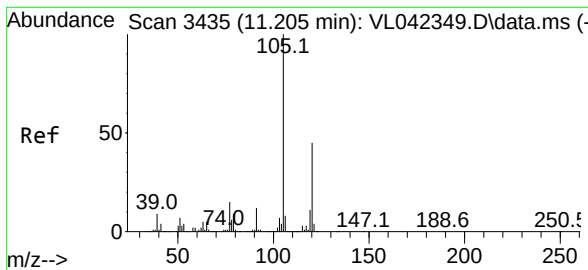
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#72
4-Ethyltoluene
Concen: 8.982 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

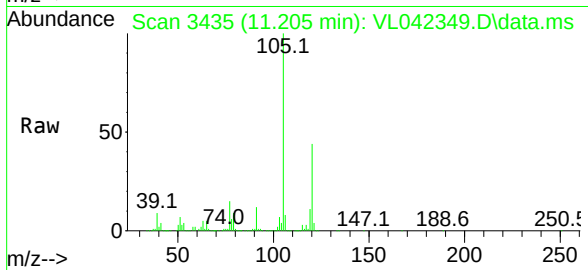
Tgt Ion:105 Resp: 596757
Ion Ratio Lower Upper
105 100
120 29.0 23.2 34.8
91 13.0 10.4 15.6
77 14.1 11.3 16.9





#73
1,3,5-Trimethylbenzene
Concen: 8.743 ppbv
RT: 11.205 min Scan# 3435
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

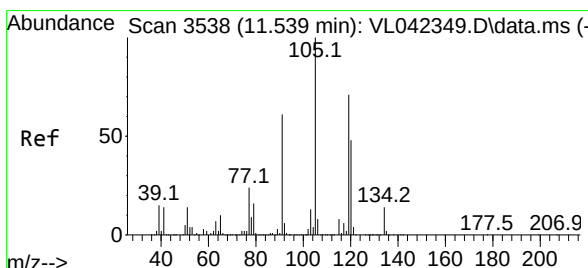
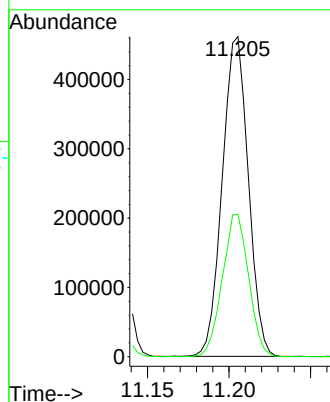
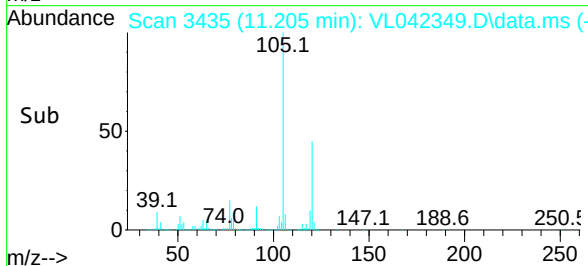
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010



Tgt Ion:105 Resp: 51285
Ion Ratio Lower Upper
105 100
120 44.5 35.6 53.4

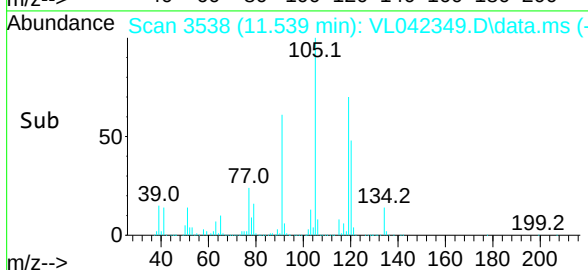
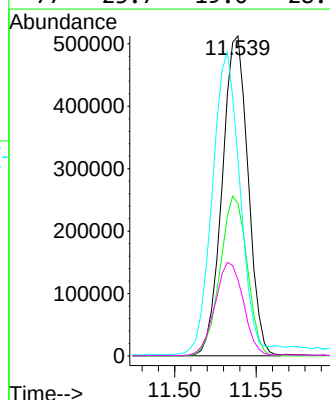
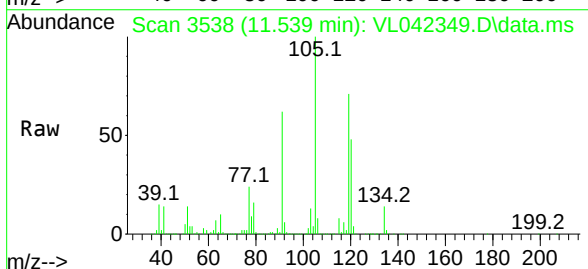
Manual Integrations
APPROVED

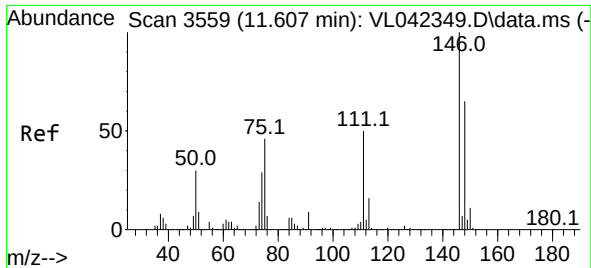
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#74
1,2,4-Trimethylbenzene
Concen: 8.248 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

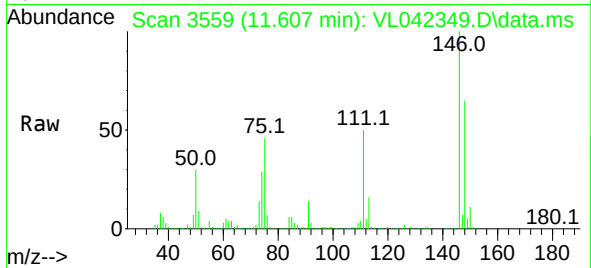
Tgt Ion:105 Resp: 565064
Ion Ratio Lower Upper
105 100
120 47.6 38.1 57.1
91 61.0 48.8 73.2
77 23.7 19.0 28.4





#75
1,3-Dichlorobenzene
Concen: 8.997 ppbv
RT: 11.607 min Scan# 3559
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

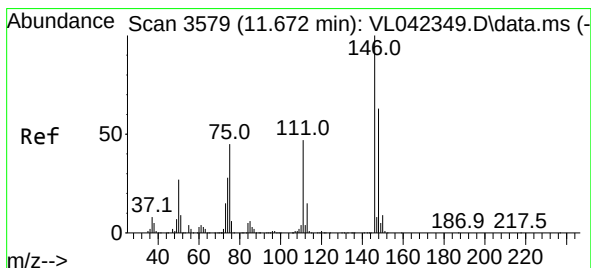
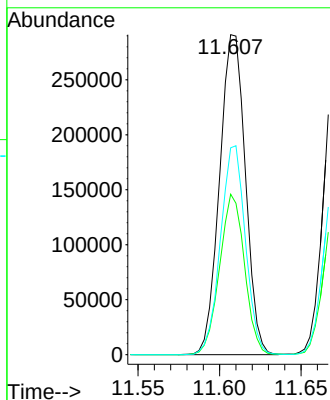
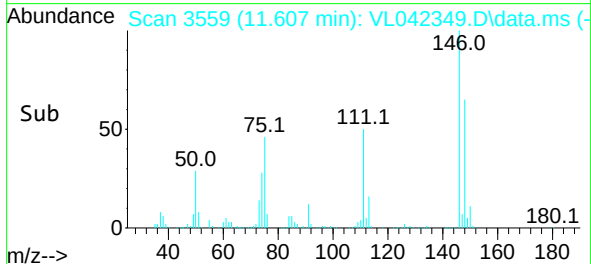
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



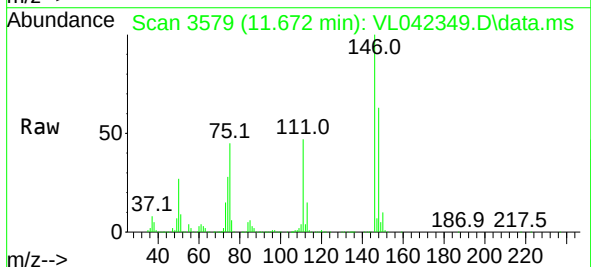
Tgt Ion:146 Resp: 320380
Ion Ratio Lower Upper
146 100
111 48.5 24.3 72.8
148 63.2 31.6 94.8

Manual Integrations
APPROVED

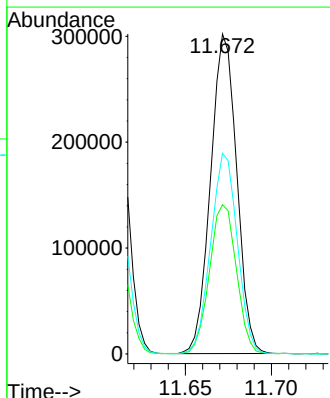
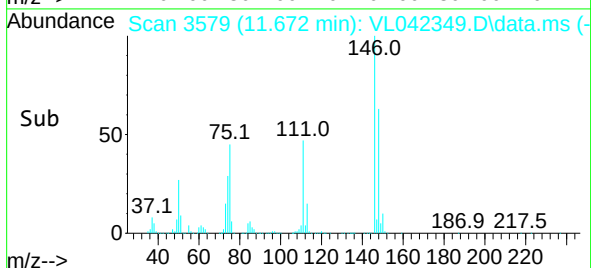
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

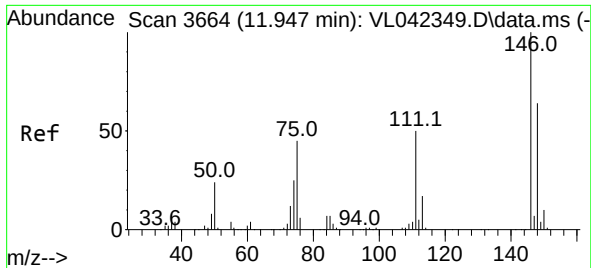


#76
1,4-Dichlorobenzene
Concen: 8.915 ppbv
RT: 11.672 min Scan# 3579
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



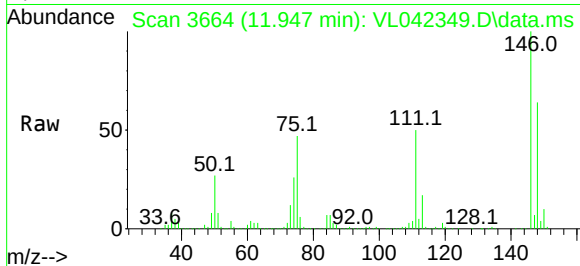
Tgt Ion:146 Resp: 319089
Ion Ratio Lower Upper
146 100
111 48.4 24.2 72.6
148 64.3 32.1 96.5





#77
1,2-Dichlorobenzene
Concen: 8.832 ppbv
RT: 11.947 min Scan# 30582
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

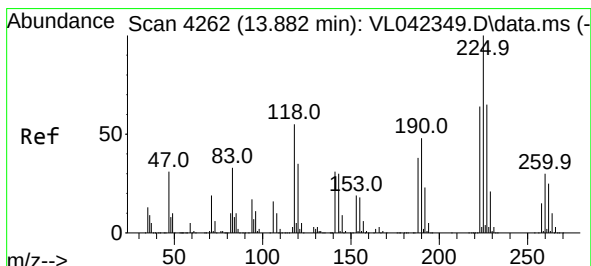
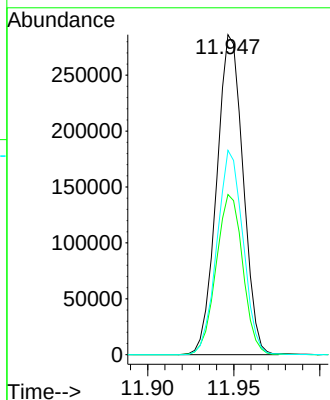
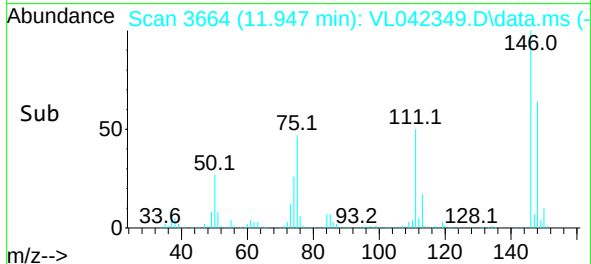
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



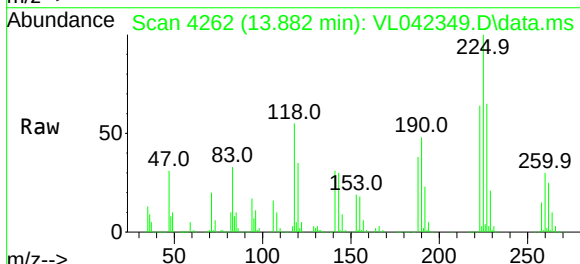
Tgt Ion:146 Resp: 30582
Ion Ratio Lower Upper
146 100
111 50.6 25.3 75.9
148 63.0 31.5 94.5

Manual Integrations
APPROVED

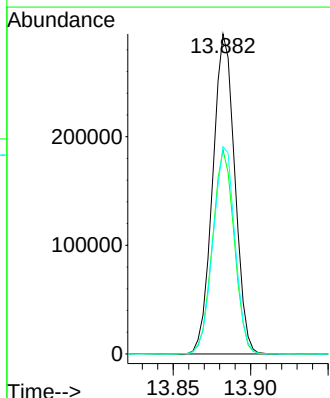
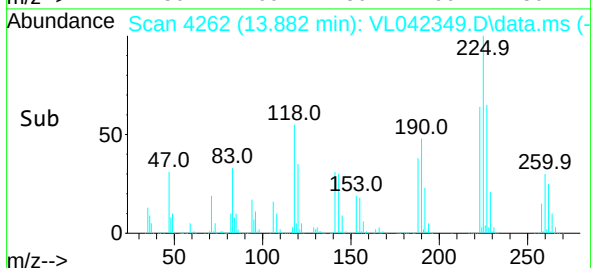
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

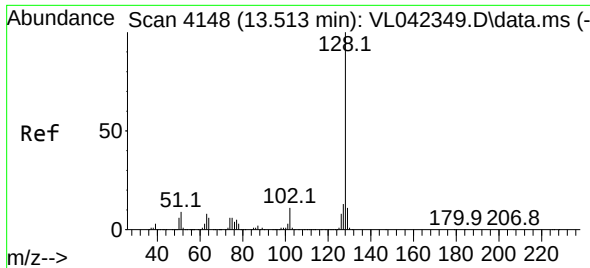


#78
Hexachloro-1,3-Butadiene
Concen: 8.346 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



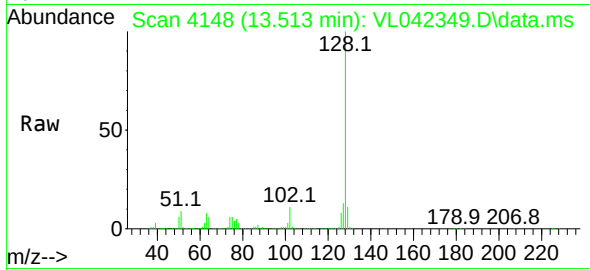
Tgt Ion:225 Resp: 291833
Ion Ratio Lower Upper
225 100
223 62.9 50.3 75.5
227 64.4 51.5 77.3





#79
Naphthalene
Concen: 8.271 ppbv
RT: 13.513 min Scan# 4148
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

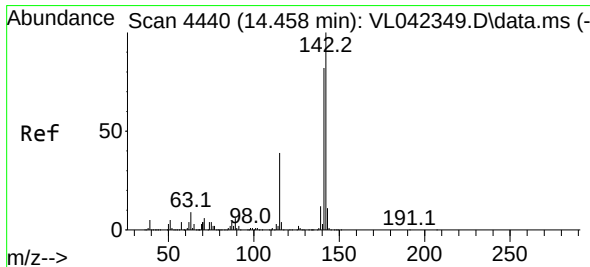
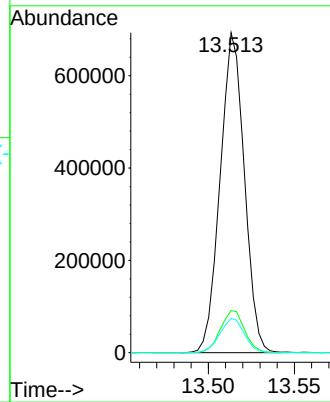
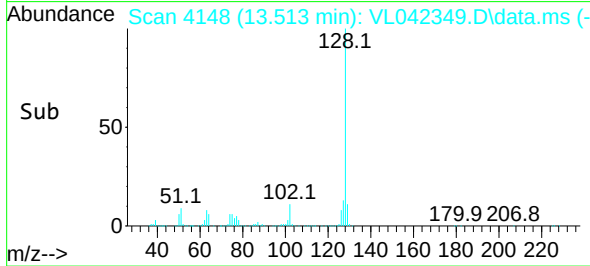
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



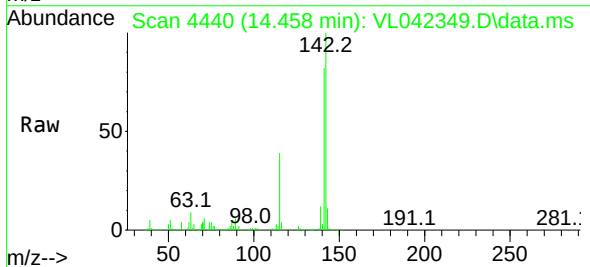
Tgt Ion:128 Resp: 677578
Ion Ratio Lower Upper
128 100
127 13.2 10.6 15.8
129 10.7 8.6 12.8

Manual Integrations
APPROVED

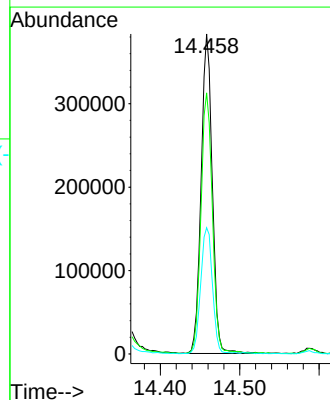
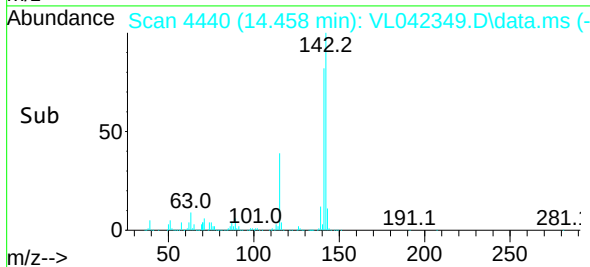
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

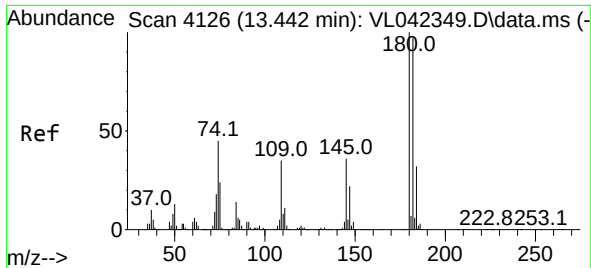


#80
Naphthalene,2-methyl-
Concen: 8.074 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



Tgt Ion:142 Resp: 376995
Ion Ratio Lower Upper
142 100
141 83.5 66.8 100.2
115 41.8 33.4 50.2





#81

1,2,4-Trichlorobenzene

Concen: 8.702 ppbv

RT: 13.442 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion:180 Resp: 306119

Ion Ratio Lower Upper

180 100

182 96.0 76.8 115.2

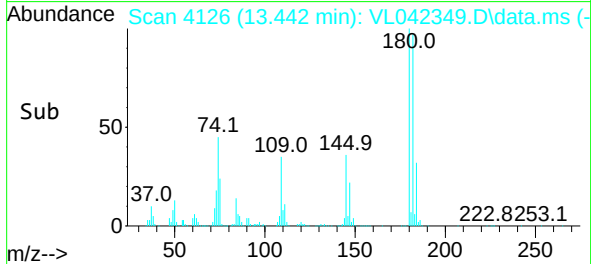
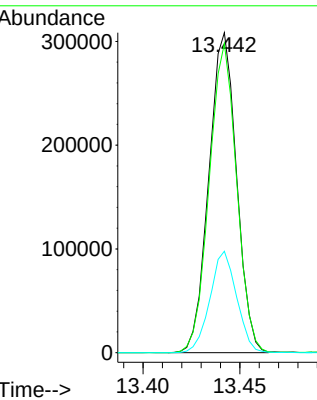
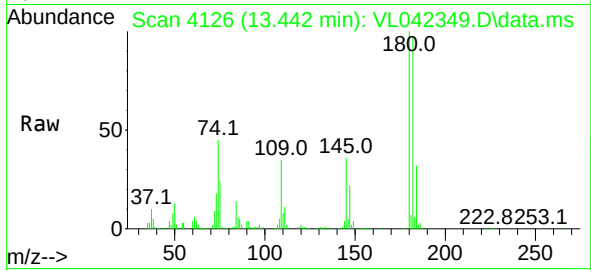
184 30.7 24.6 36.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042350.D
 Acq On : 17 Apr 2025 10:17
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Quant Time: Apr 18 01:26:23 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025
 QLast Update : Fri Apr 18 01:24:29 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 04/18/2025
 Supervised By : Mahesh Dadoda 04/18/2025

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

Internal Standards						
1) Bromochloromethane	2.787	49	123206	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	355918	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.881	117	335603	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.377	95	275715	9.998	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.000%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	45008	2.068	ppbv	95
3) Chlorodifluoromethane	1.476	51	41853	2.019	ppbv	97
4) Chloromethane	1.534	50	17272	2.005	ppbv	93
5) Vinyl Chloride	1.580	62	16979	1.811	ppbv	92
6) Bromomethane	1.667	94	7398	1.821	ppbv #	80
7) Chloroethane	1.706	64	6889	2.031	ppbv	98
8) Dichlorotetrafluoroethane	1.554	85	38955	2.084	ppbv	98
9) Propene	1.483	41	18671	1.978	ppbv	97
10) Heptane	4.978	43	54438m	2.143	ppbv	
11) Trichlorofluoromethane	1.877	101	43035	2.079	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.140	101	35415	2.092	ppbv	100
13) Ethanol	1.722	45	3034m	3.933	ppbv	
14) Bromoethene	1.780	108	13049	2.045	ppbv #	92
15) Acetone	1.835	43	42949	2.129	ppbv	93
16) 1,3-Butadiene	1.609	39	18110	1.912	ppbv	96
17) tert-Butyl alcohol	2.042	59	51829	2.074	ppbv #	94
18) 1,1-Dichloroethene	2.036	96	15690	1.928	ppbv	87
19) Isopropyl Alcohol	1.887	45	22106	1.973	ppbv #	38
20) Methylene Chloride	2.062	84	14329	1.814	ppbv #	82
21) Allyl Chloride	2.098	41	27340	1.963	ppbv	95
22) trans-1,2-Dichloroethene	2.340	96	18142	2.015	ppbv	97
23) Vinyl Acetate	2.463	43	18454	2.260	ppbv #	91
24) 1,1-Dichloroethane	2.411	63	34077	1.993	ppbv	96
25) Ethyl Acetate	2.835	43	101467	2.040	ppbv	99
26) Hexane	2.826	57	40046	1.990	ppbv	99
27) Carbon Disulfide	2.149	76	43975	2.041	ppbv #	64
28) Methyl tert-Butyl Ether	2.441	73	27905	2.116	ppbv	97
29) Chloroform	2.848	83	58946	2.072	ppbv	100
30) Cyclohexane	3.858	84	33195	2.048	ppbv	94
31) cis-1,2-Dichloroethene	2.722	61	39249	2.051	ppbv	98
32) 1,1,1-Trichloroethane	3.366	97	61442	2.014	ppbv	99
34) 2-Butanone	2.560	43	58249	2.069	ppbv	100
35) Carbon Tetrachloride	3.761	117	60291	1.872	ppbv	88
36) Benzene	3.658	78	79814	2.079	ppbv	98
37) 1,2-Dichloroethane	3.217	62	47398	2.057	ppbv	100
38) Trichloroethene	4.544	130	31826m	1.891	ppbv	
39) 1,2-Dichloropropane	4.315	63	28806	2.012	ppbv	96
40) 1,4-Dioxane	4.593	88	16536m	2.133	ppbv	
41) Tetrahydrofuran	3.059	42	33298	2.047	ppbv	98
42) Bromodichloromethane	4.489	83	64941	2.025	ppbv	97
43) Methyl Methacrylate	4.881	69	35256	2.046	ppbv	97
44) 2,2,4-Trimethylpentane	4.645	57	139641	2.103	ppbv	99
45) t-1,3-Dichloropropene	6.415	75	36265	2.050	ppbv	94

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042350.D
 Acq On : 17 Apr 2025 10:17
 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 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 01:26:23 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

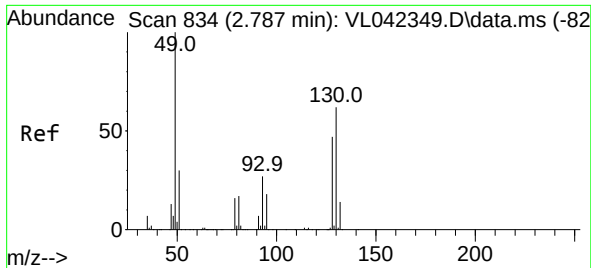
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Fri Apr 18 01:24:29 2025

Response via : Initial Calibration

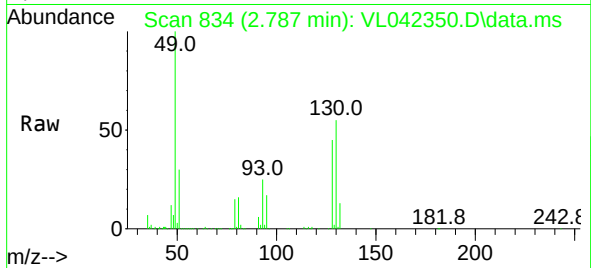
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.600	75	45327m	2.096	ppbv	
47) 1,1,2-Trichloroethane	6.590	97	29879	2.049	ppbv	88
48) Dibromochloromethane	7.389	129	53069	2.061	ppbv	100
49) Bromoform	9.483	173	48069	2.135	ppbv	97
50) 4-Methyl-2-Pentanone	5.758	43	102182	2.180	ppbv	99
51) 2-Hexanone	7.441	43	100443	2.375	ppbv	98
52) Tetrachloroethene	8.228	164	27854	1.877	ppbv	96
53) Toluene	6.933	91	97493	2.116	ppbv	98
54) 1,2-Dibromoethane	7.655	107	43153	2.076	ppbv	87
56) 1,1,1,2-Tetrachloroethane	8.924	131	42601	2.097	ppbv	95
57) Chlorobenzene	8.924	112	71685	2.054	ppbv	98
58) Ethyl Benzene	9.357	91	138810	2.088	ppbv	98
59) m/p-Xylene	9.532	91	222542m	4.142	ppbv	
60) o-Xylene	9.963	91	111972	2.076	ppbv	98
61) Styrene	9.872	104	54229	2.106	ppbv	98
62) Isopropylbenzene	10.539	105	163716	2.067	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.963	83	64952	1.853	ppbv	99
64) n-propylbenzene	10.989	120	40956	2.058	ppbv	96
65) tert-Butylbenzene	11.532	119	155401	2.135	ppbv	92
66) Benzyl Chloride	11.616	91	17300	2.163	ppbv	98
67) sec-Butylbenzene	11.769	105	218327	2.156	ppbv	100
69) p-Isopropyltoluene	11.927	119	188657	2.145	ppbv	99
70) n-Butylbenzene	12.283	91	198221	2.164	ppbv	99
71) 2-Chlorotoluene	10.901	91	128858	2.075	ppbv	98
72) 4-Ethyltoluene	11.124	105	137872	2.091	ppbv	97
73) 1,3,5-Trimethylbenzene	11.205	105	123580	2.123	ppbv	98
74) 1,2,4-Trimethylbenzene	11.539	105	145510	2.140	ppbv	92
75) 1,3-Dichlorobenzene	11.607	146	75082	2.124	ppbv	98
76) 1,4-Dichlorobenzene	11.671	146	75323	2.120	ppbv	99
77) 1,2-Dichlorobenzene	11.947	146	74786	2.176	ppbv	98
78) Hexachloro-1,3-Butadiene	13.882	225	76158	2.194	ppbv	100
79) Naphthalene	13.513	128	195233	2.401	ppbv	99
80) Naphthalene,2-methyl-	14.458	142	119262	2.574	ppbv	99
81) 1,2,4-Trichlorobenzene	13.442	180	82156	2.353	ppbv	99

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 834
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

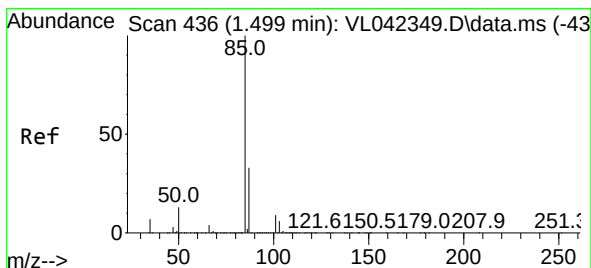
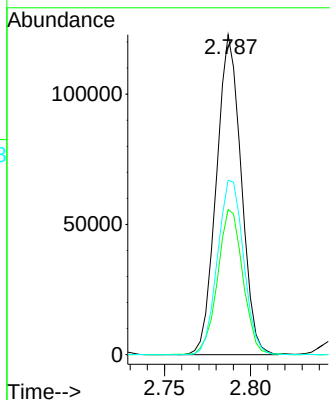
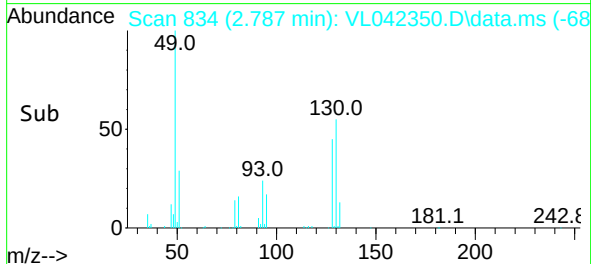
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



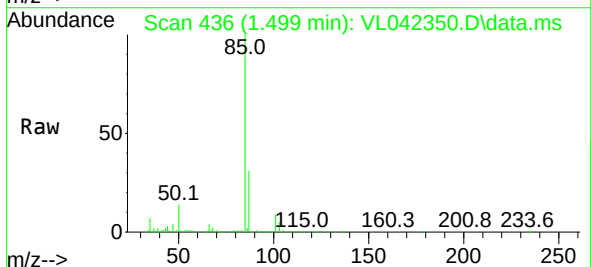
Tgt Ion: 49 Resp: 123200
Ion Ratio Lower Upper
49 100
128 46.2 22.8 68.4
130 57.3 29.3 88.0

Manual Integrations
APPROVED

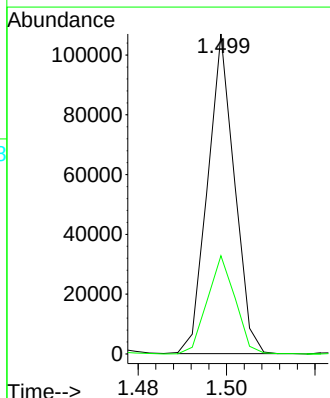
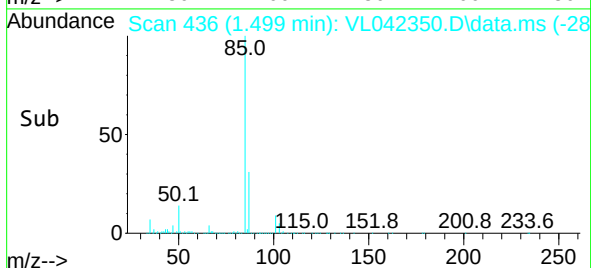
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

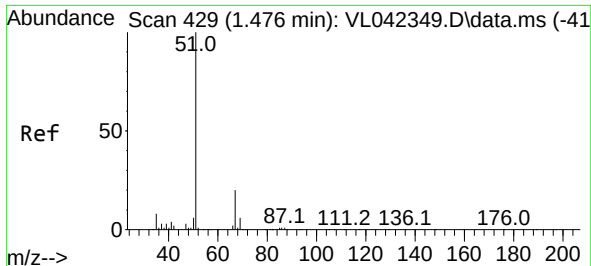


#2
Dichlorodifluoromethane
Concen: 2.068 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



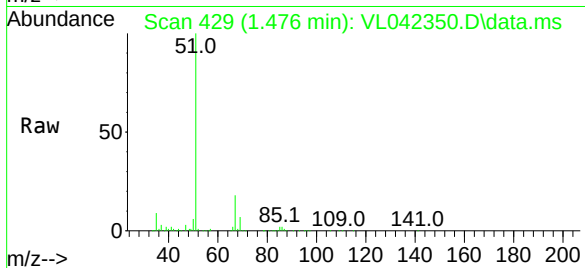
Tgt Ion: 85 Resp: 45008
Ion Ratio Lower Upper
85 100
87 30.6 26.6 39.8





#3
Chlorodifluoromethane
Concen: 2.019 ppbv
RT: 1.476 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

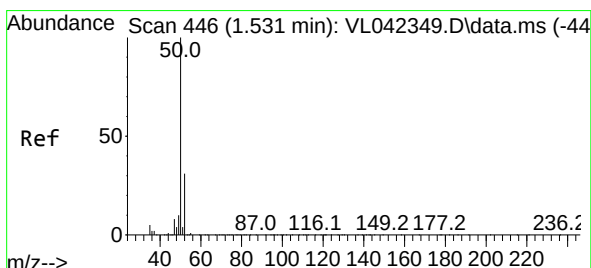
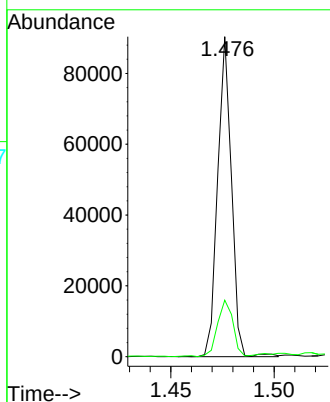
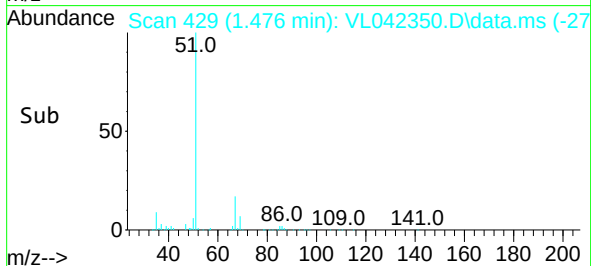
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



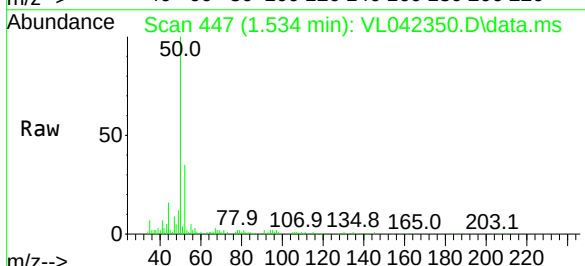
Tgt Ion: 51 Resp: 4185
Ion Ratio Lower Upper
51 100
67 21.7 16.2 24.4

Manual Integrations
APPROVED

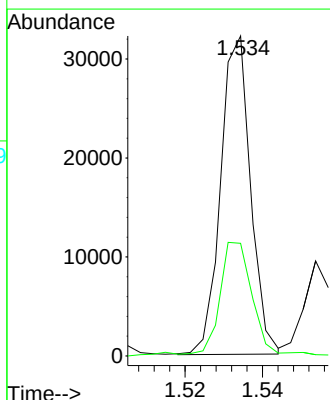
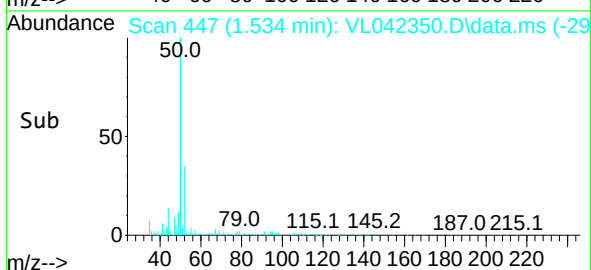
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

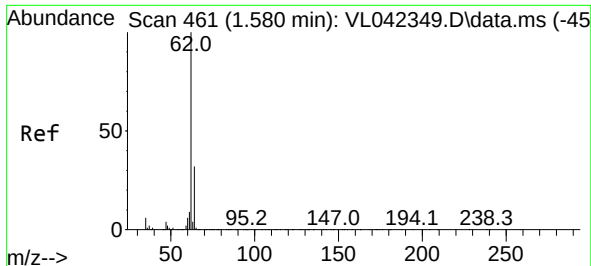


#4
Chloromethane
Concen: 2.005 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



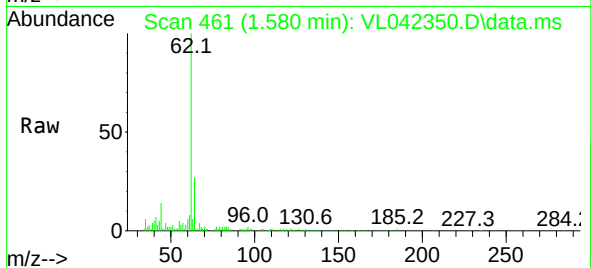
Tgt Ion: 50 Resp: 17272
Ion Ratio Lower Upper
50 100
52 34.9 24.7 37.1





#5
 Vinyl Chloride
 Concen: 1.811 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. -0.000 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

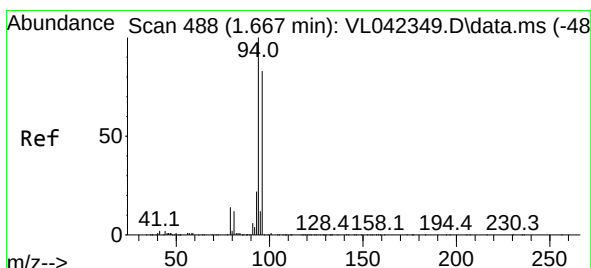
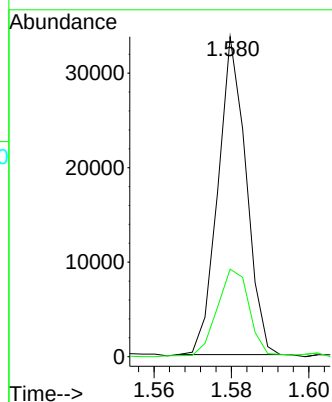
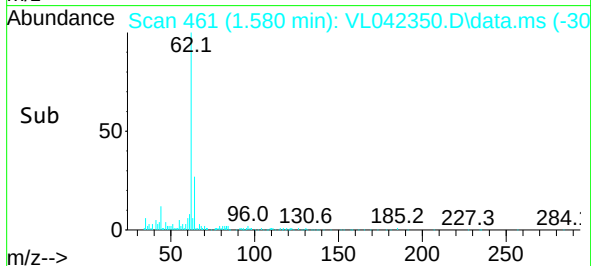
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002



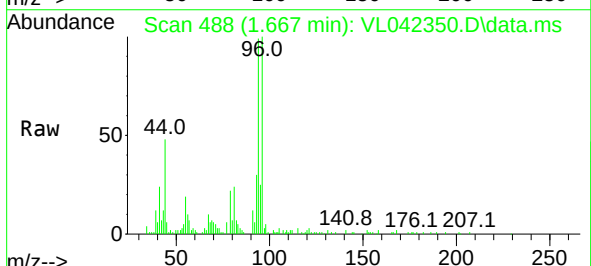
Tgt Ion: 62 Resp: 16979
 Ion Ratio Lower Upper
 62 100
 64 27.2 25.4 38.0

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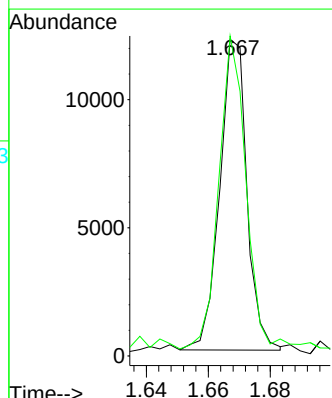
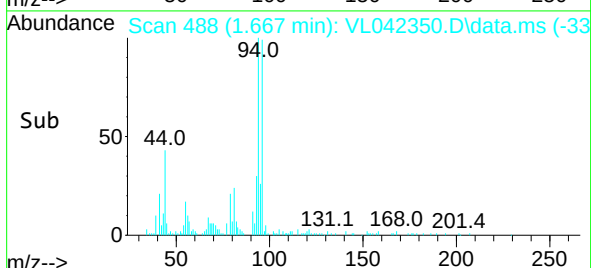
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

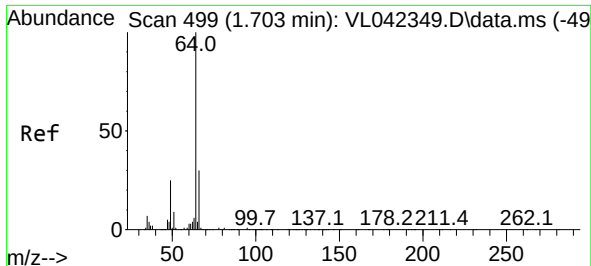


#6
 Bromomethane
 Concen: 1.821 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. -0.000 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17



Tgt Ion: 94 Resp: 7398
 Ion Ratio Lower Upper
 94 100
 96 100.8 66.2 99.2#





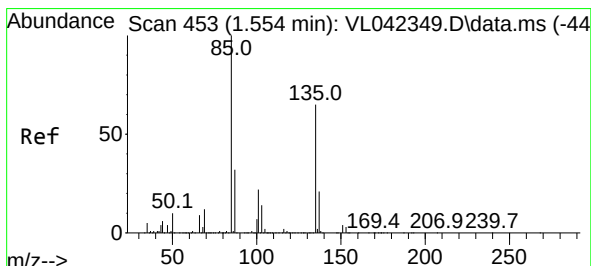
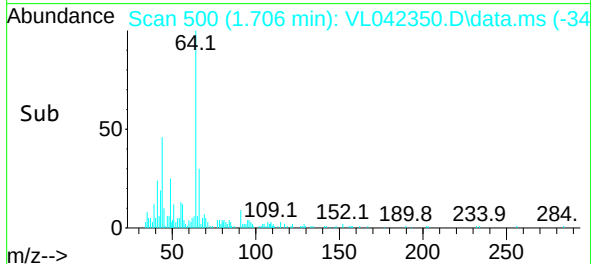
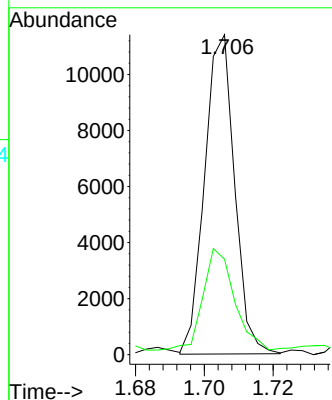
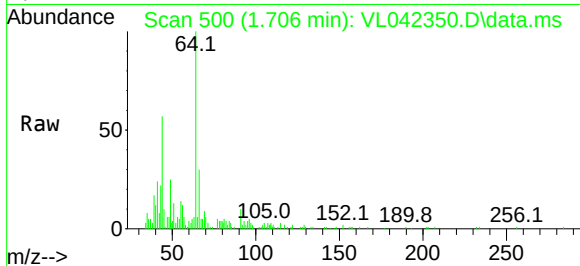
#7
Chloroethane
Concen: 2.031 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion: 64 Resp: 6889
Ion Ratio Lower Upper
64 100
66 29.8 24.6 37.0

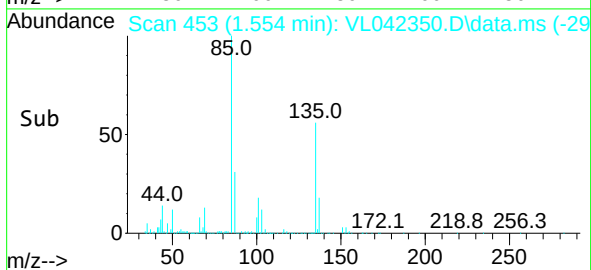
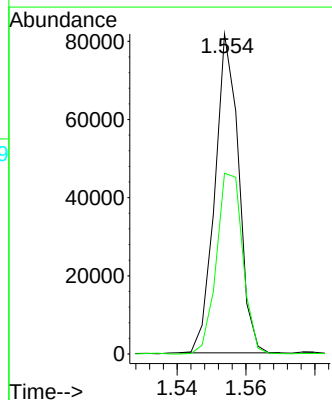
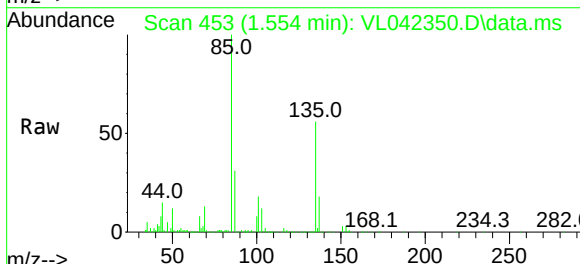
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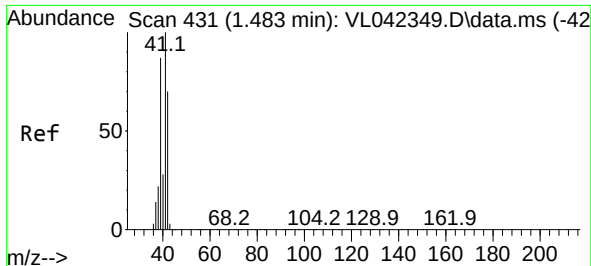
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#8
Dichlorotetrafluoroethane
Concen: 2.084 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 85 Resp: 38955
Ion Ratio Lower Upper
85 100
135 63.3 52.2 78.2





#9

Propene

Concen: 1.978 ppbv

RT: 1.483 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

Tgt Ion: 41 Resp: 1867

Ion Ratio Lower Upper

41 100

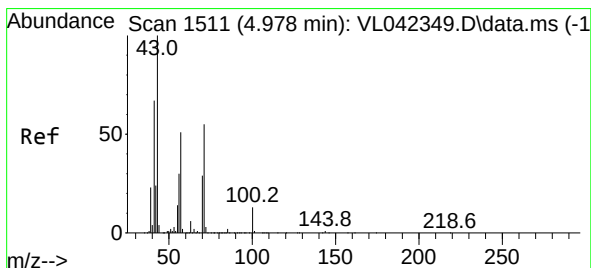
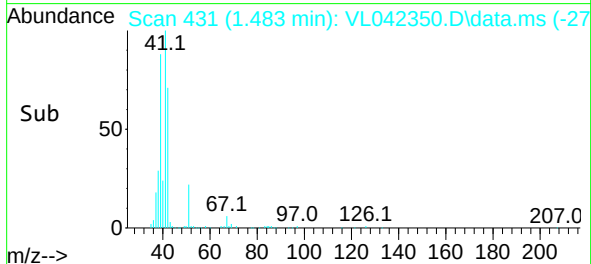
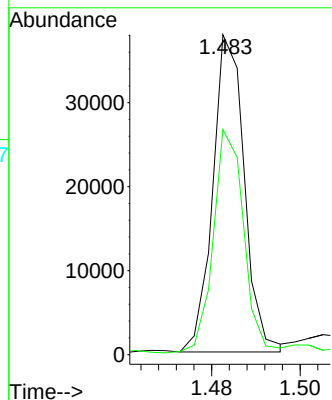
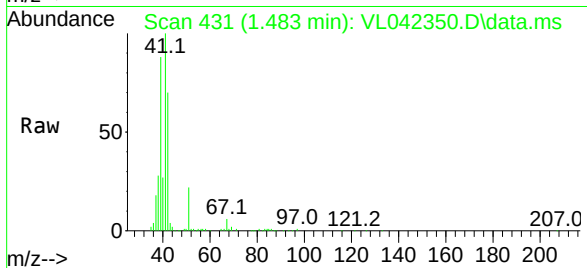
42 72.7 56.2 84.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#10

Heptane

Concen: 2.143 ppbv m

RT: 4.978 min Scan# 1511

Delta R.T. -0.000 min

Lab File: VL042350.D

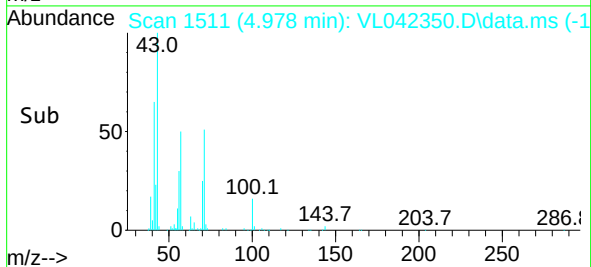
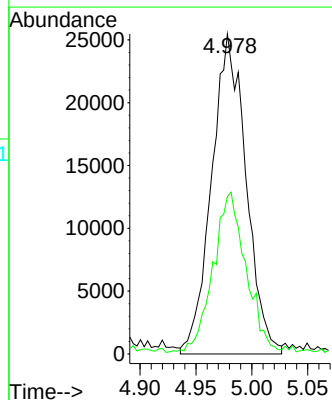
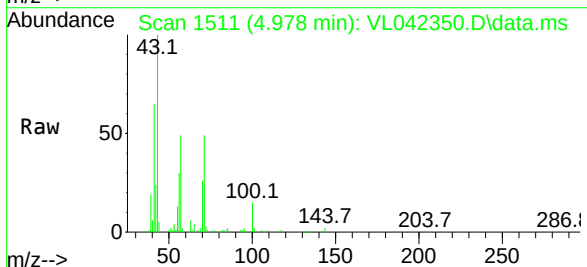
Acq: 17 Apr 2025 10:17

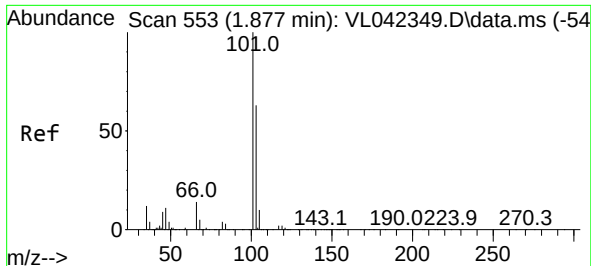
Tgt Ion: 43 Resp: 54438

Ion Ratio Lower Upper

43 100

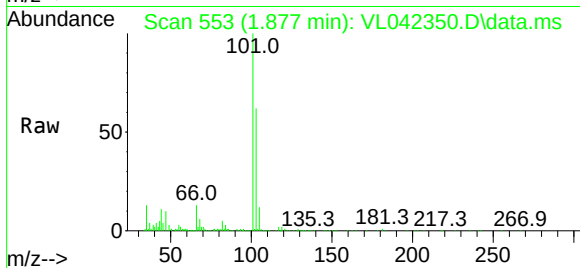
57 48.3 39.9 59.9





#11
Trichlorofluoromethane
Concen: 2.079 ppbv
RT: 1.877 min Scan# 553
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

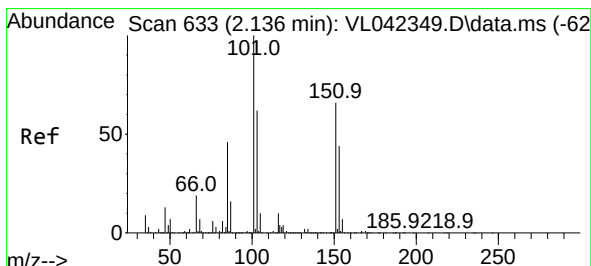
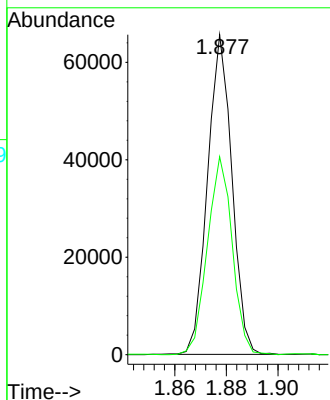
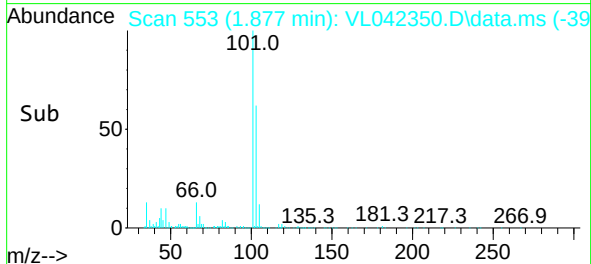
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



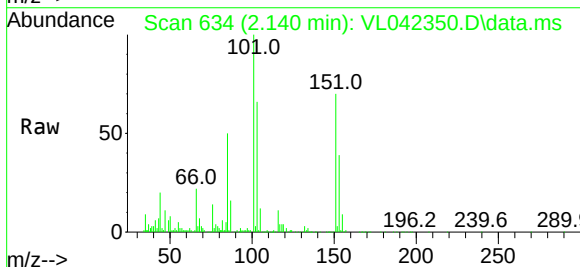
Tgt Ion:101 Resp: 43035
Ion Ratio Lower Upper
101 100
103 61.9 50.1 75.1

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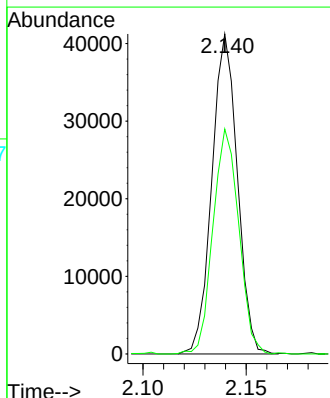
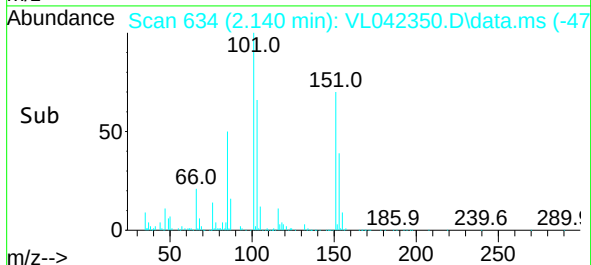
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

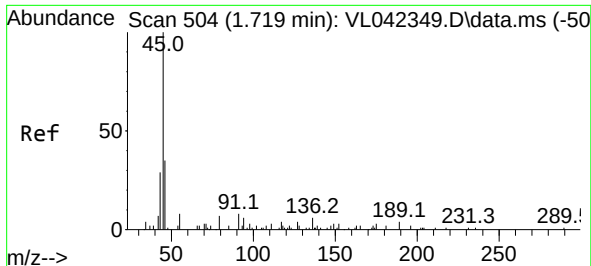


#12
1,1,2-Trichlorotrifluoroethane
Concen: 2.092 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



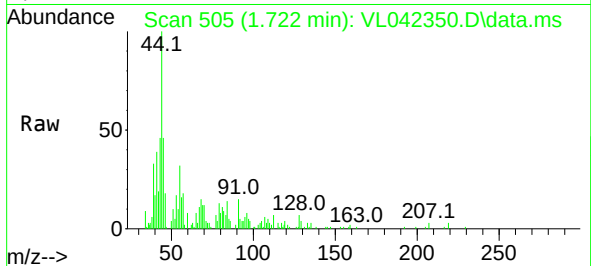
Tgt Ion:101 Resp: 35415
Ion Ratio Lower Upper
101 100
151 71.5 57.0 85.6





#13
Ethanol
Concen: 3.933 ppbv m
RT: 1.722 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

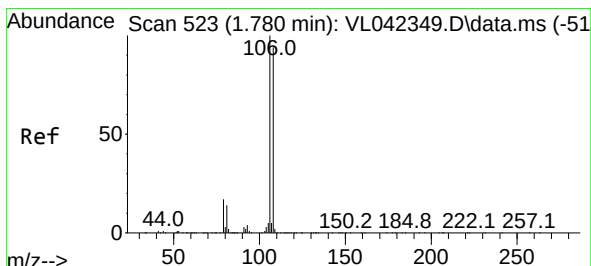
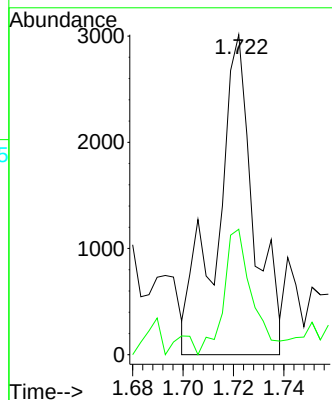
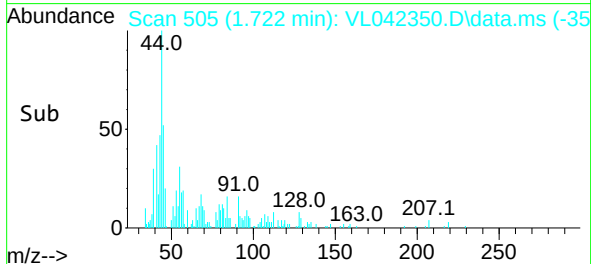
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



Tgt Ion: 45 Resp: 3034
Ion Ratio Lower Upper
45 100
46 39.3 21.9 87.7

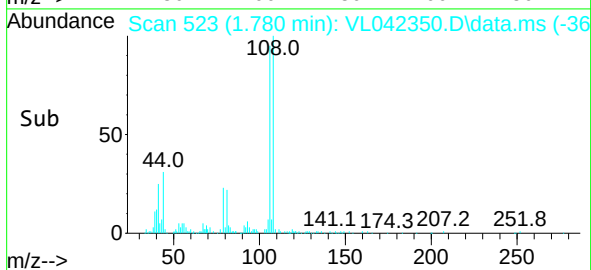
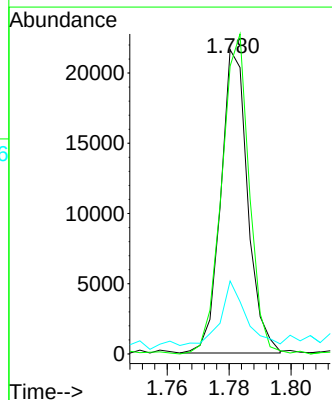
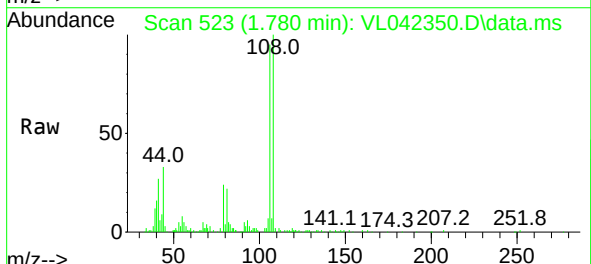
Manual Integrations
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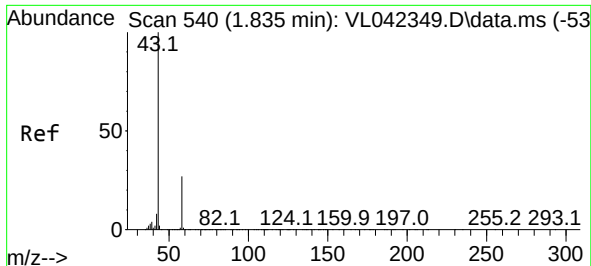
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#14
Bromoethene
Concen: 2.045 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

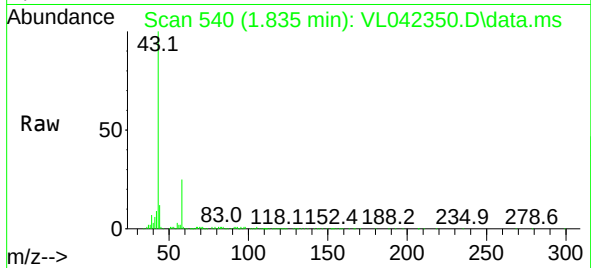
Tgt Ion:108 Resp: 13049
Ion Ratio Lower Upper
108 100
106 110.2 85.9 128.9
79 34.0 13.9 20.9#





#15
Acetone
Concen: 2.129 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

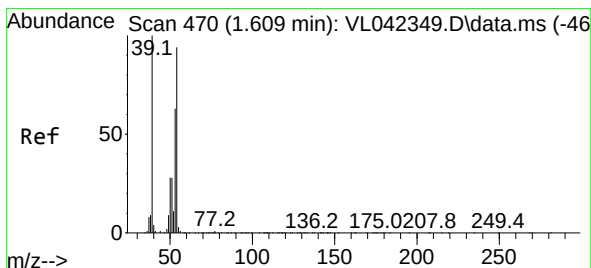
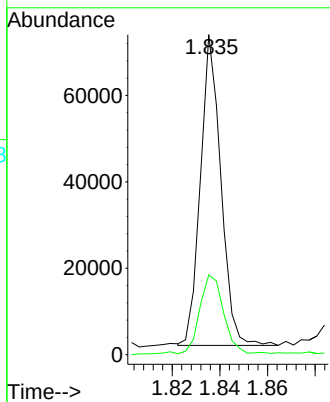
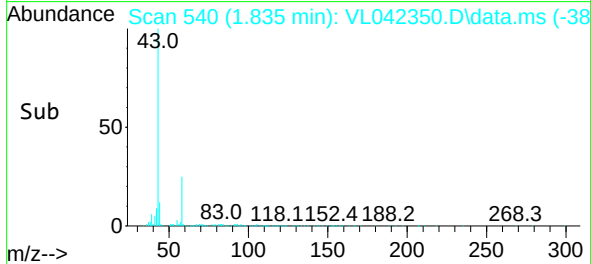
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



Tgt Ion: 43 Resp: 42949
Ion Ratio Lower Upper
43 100
58 31.4 22.4 33.6

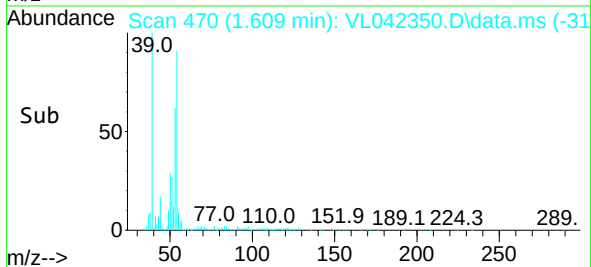
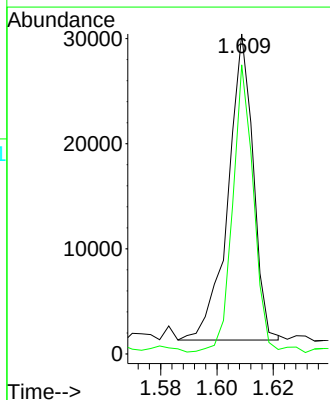
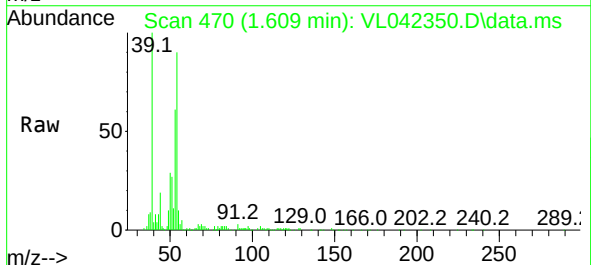
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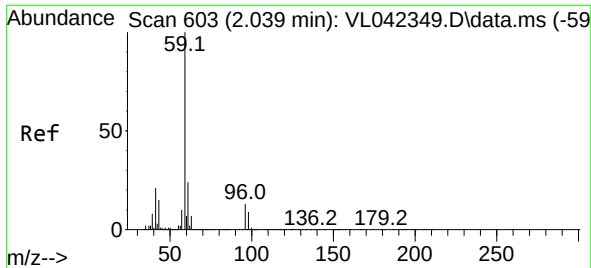
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#16
1,3-Butadiene
Concen: 1.912 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

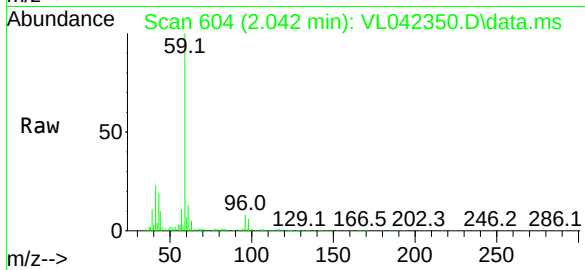
Tgt Ion: 39 Resp: 18110
Ion Ratio Lower Upper
39 100
54 77.2 64.9 97.3





#17
tert-Butyl alcohol
Concen: 2.074 ppbv
RT: 2.042 min Scan# 603
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

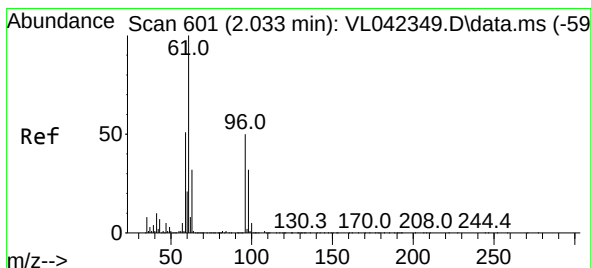
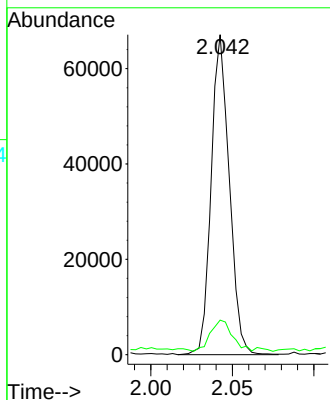
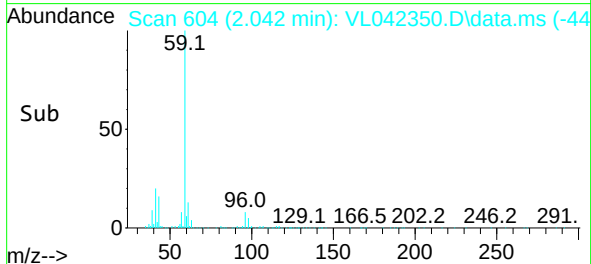
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



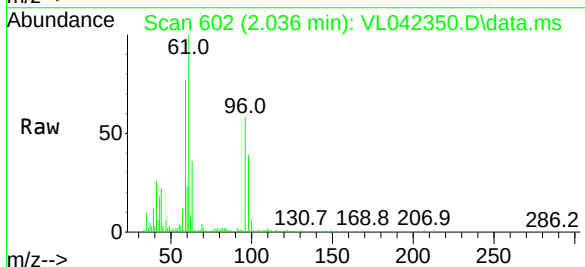
Tgt Ion: 59 Resp: 51829
Ion Ratio Lower Upper
59 100
57 13.2 8.7 13.1

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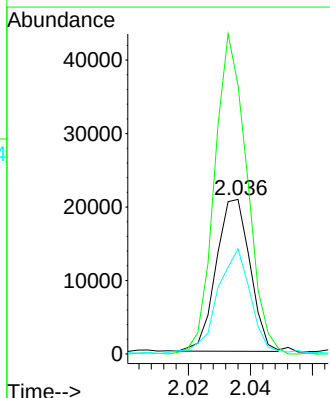
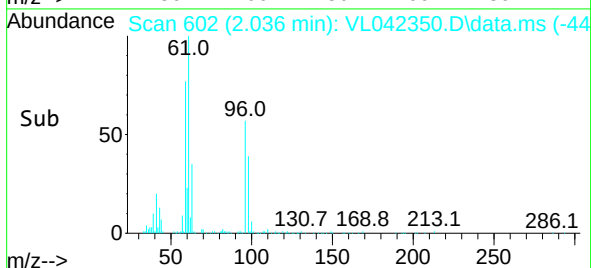
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

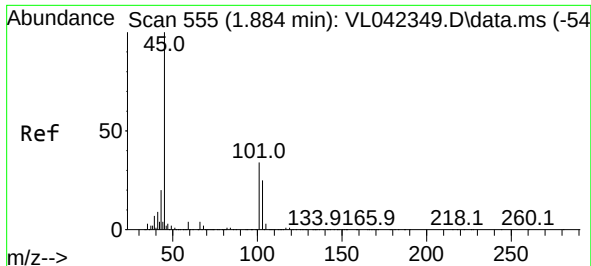


#18
1,1-Dichloroethene
Concen: 1.928 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



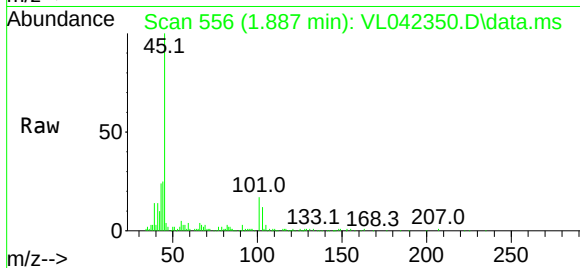
Tgt Ion: 96 Resp: 15690
Ion Ratio Lower Upper
96 100
61 176.1 160.2 240.2
98 67.2 51.0 76.4





#19
Isopropyl Alcohol
Concen: 1.973 ppbv
RT: 1.887 min Scan# 555
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

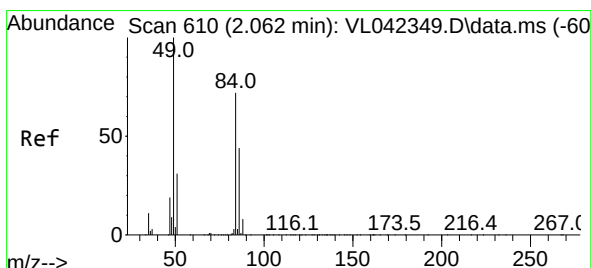
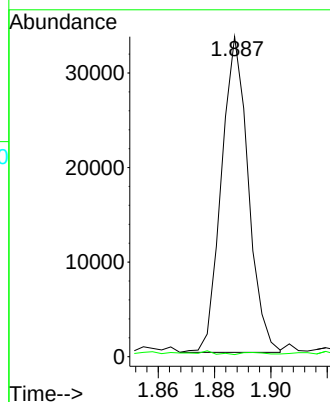
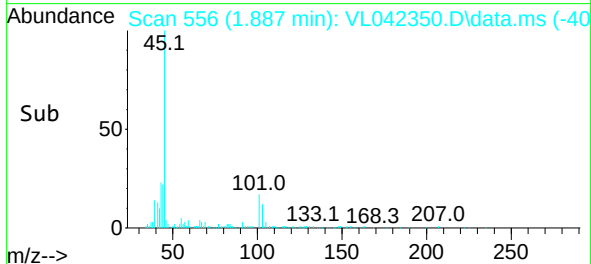
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



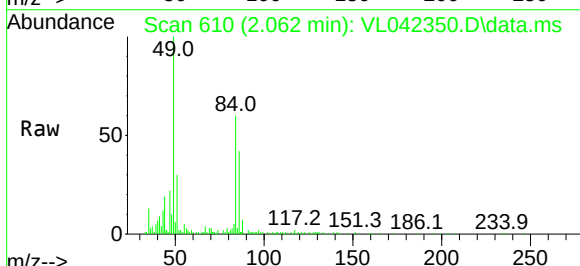
Tgt Ion: 45 Resp: 22100
Ion Ratio Lower Upper
45 100
58 3.6 34.5 51.7

Manual Integrations
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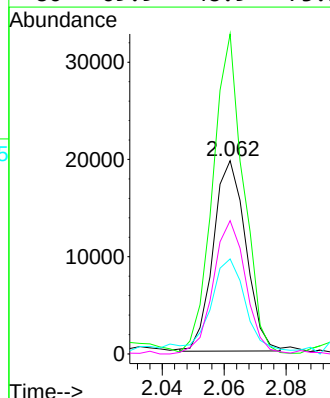
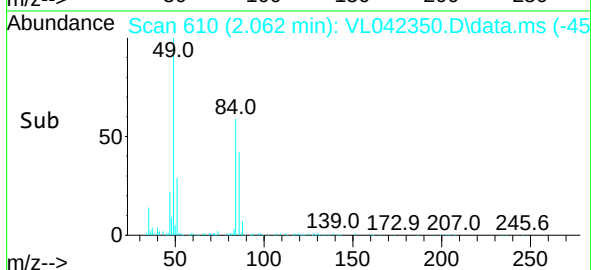
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

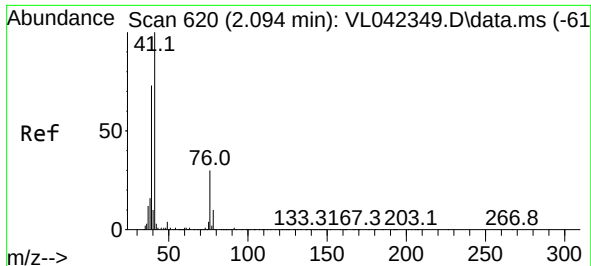


#20
Methylene Chloride
Concen: 1.814 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



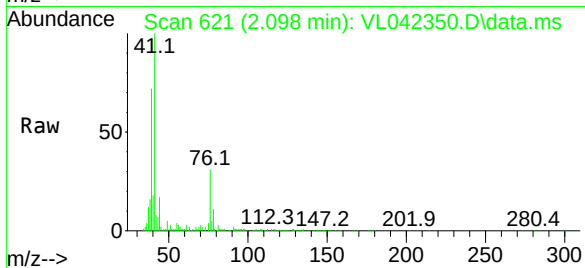
Tgt Ion: 84 Resp: 14329
Ion Ratio Lower Upper
84 100
49 169.1 111.6 167.4#
51 47.9 35.1 52.7
86 69.9 48.9 73.3





#21
 Allyl Chloride
 Concen: 1.963 ppbv
 RT: 2.098 min Scan# 61
 Delta R.T. 0.003 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

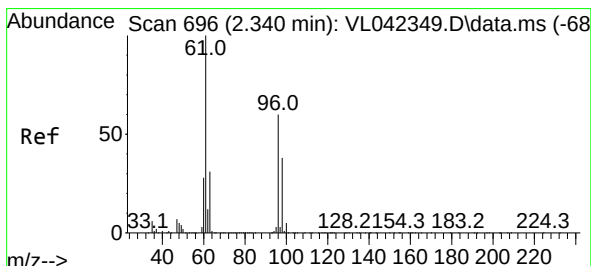
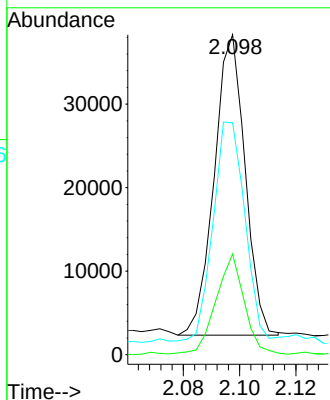
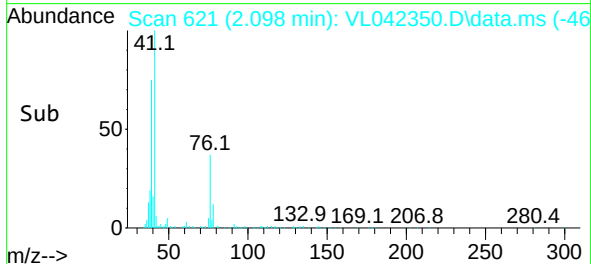
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002



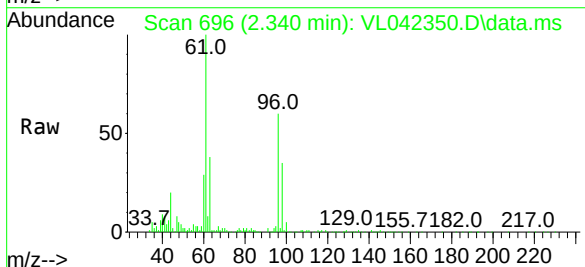
Tgt Ion: 41 Resp: 27340
 Ion Ratio Lower Upper
 41 100
 76 31.9 24.8 37.2
 39 81.2 60.6 90.8

Manual Integrations
 APPROVED

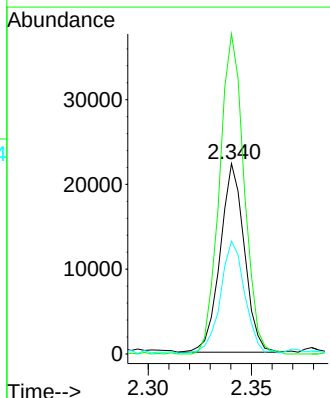
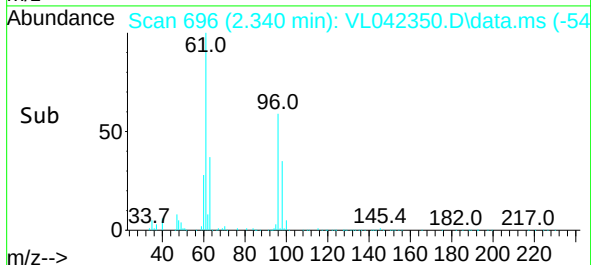
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

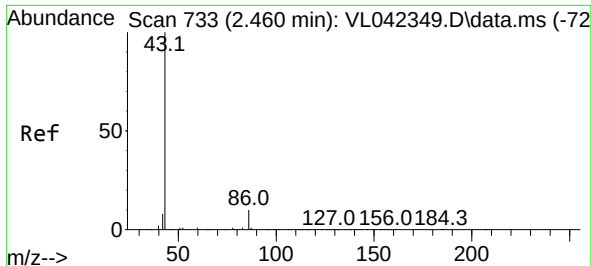


#22
 trans-1,2-Dichloroethene
 Concen: 2.015 ppbv
 RT: 2.340 min Scan# 696
 Delta R.T. -0.000 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17



Tgt Ion: 96 Resp: 18142
 Ion Ratio Lower Upper
 96 100
 61 169.6 133.7 200.5
 98 59.3 50.3 75.5





#23
 Vinyl Acetate
 Concen: 2.260 ppbv
 RT: 2.463 min Scan# 718
 Delta R.T. 0.003 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

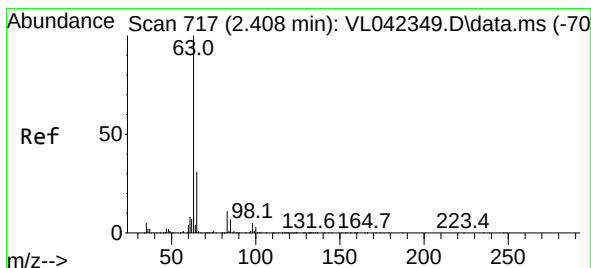
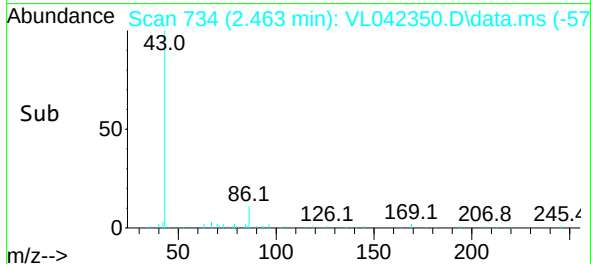
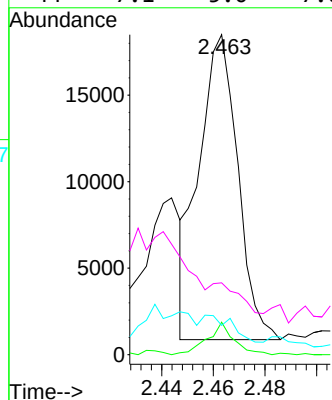
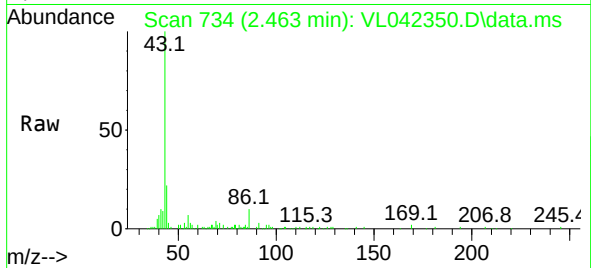
VSTDIC002

Tgt Ion: 43 Resp: 18454
 Ion Ratio Lower Upper
 43 100
 86 10.2 6.5 9.7
 42 3.7 7.8 11.8
 44 7.1 5.0 7.6

Manual Integrations

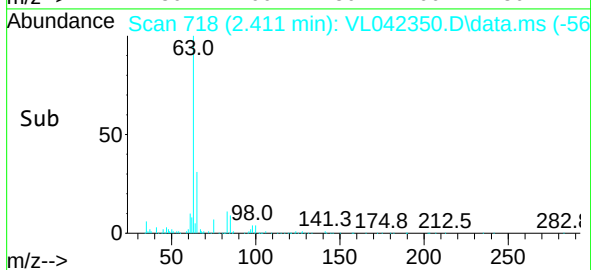
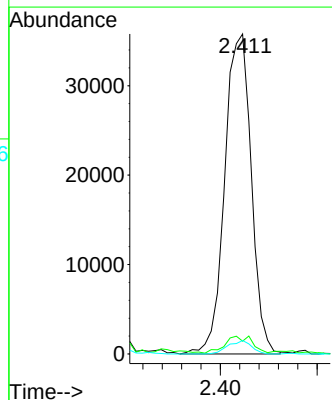
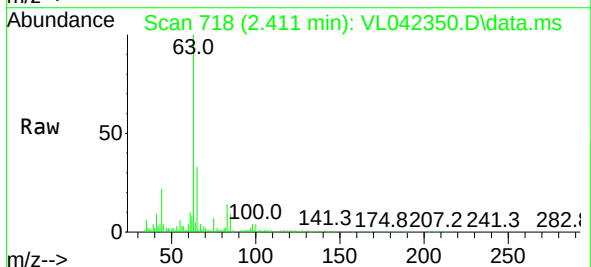
APPROVED

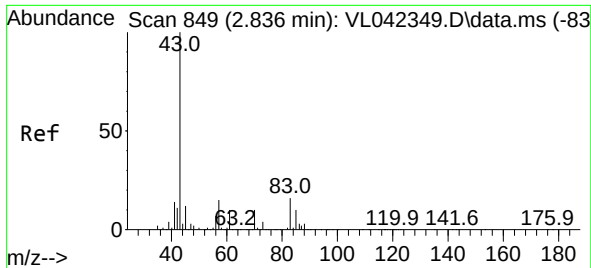
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#24
 1,1-Dichloroethane
 Concen: 1.993 ppbv
 RT: 2.411 min Scan# 718
 Delta R.T. 0.003 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

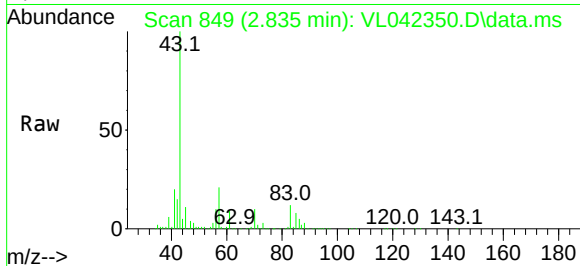
Tgt Ion: 63 Resp: 34077
 Ion Ratio Lower Upper
 63 100
 98 3.1 2.3 6.8
 100 4.2 1.6 4.8





#25
Ethyl Acetate
Concen: 2.040 ppbv
RT: 2.835 min Scan# 849
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

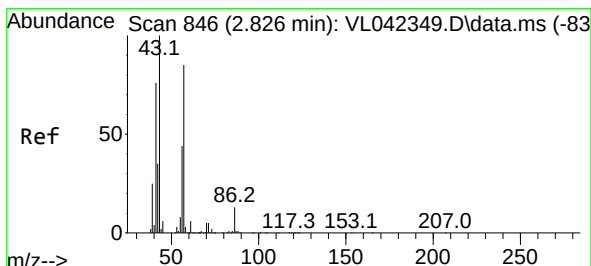
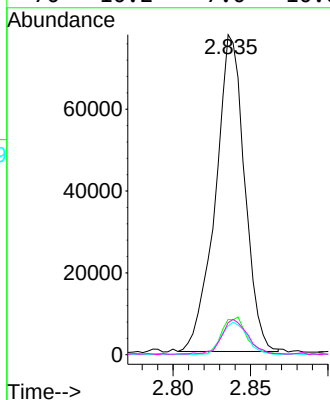
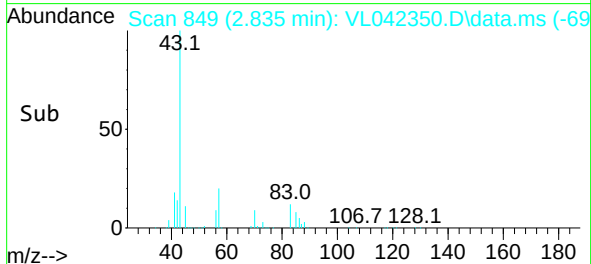
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



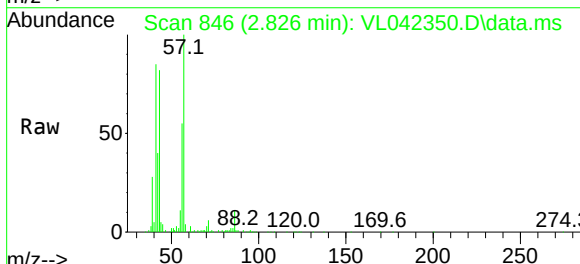
Tgt Ion: 43 Resp: 10146
Ion Ratio Lower Upper
43 100
45 10.4 8.3 12.5
61 9.2 7.3 10.9
70 10.2 7.0 10.6

Manual Integrations
APPROVED

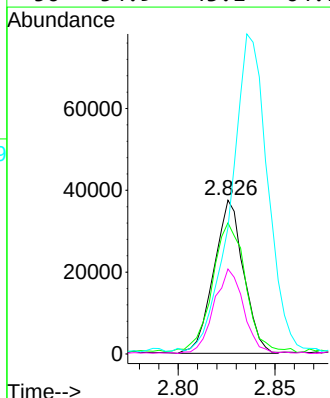
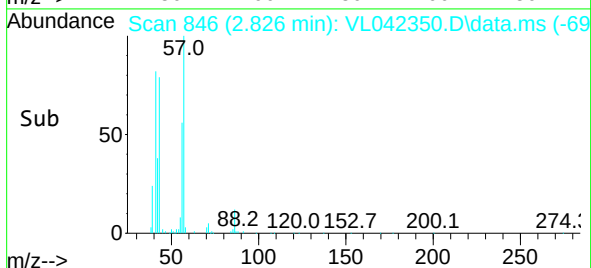
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

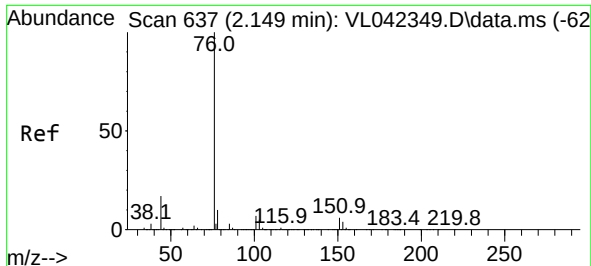


#26
Hexane
Concen: 1.990 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



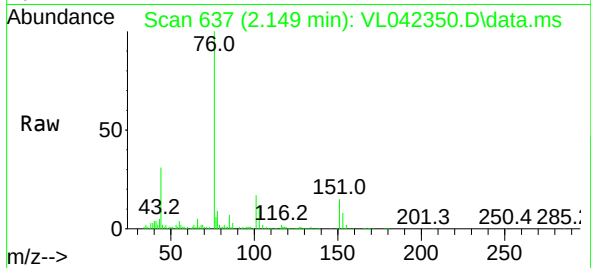
Tgt Ion: 57 Resp: 40046
Ion Ratio Lower Upper
57 100
41 94.1 77.9 116.9
43 260.7 208.4 312.6
56 54.9 43.1 64.7





#27
Carbon Disulfide
Concen: 2.041 ppbv
RT: 2.149 min Scan# 637
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

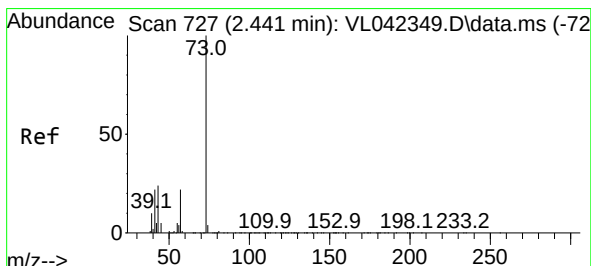
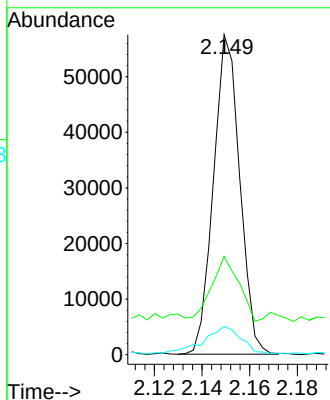
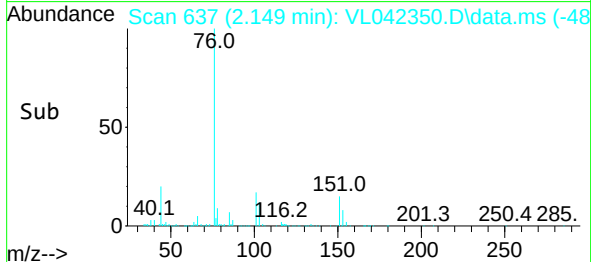
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



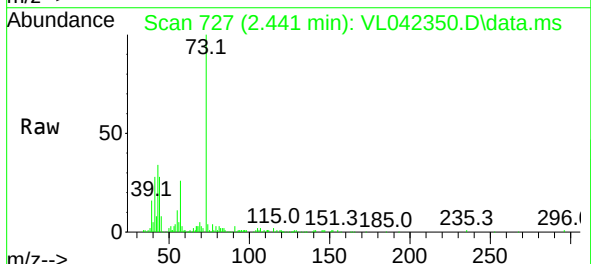
Tgt Ion: 76 Resp: 43975
Ion Ratio Lower Upper
76 100
44 44.3 15.5 23.3
78 13.6 9.3 13.9

Manual Integrations
APPROVED

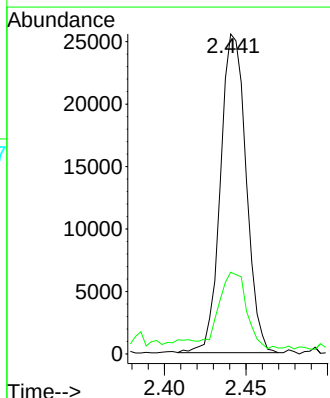
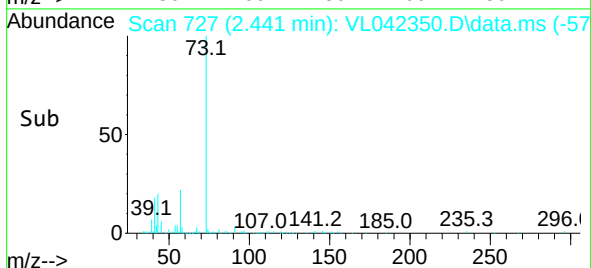
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

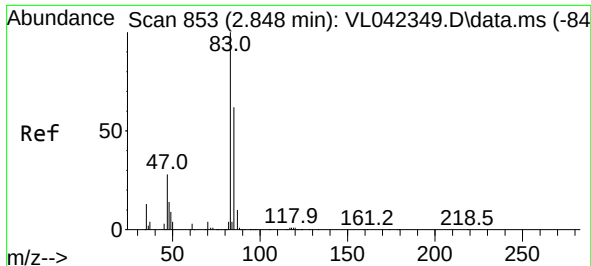


#28
Methyl tert-Butyl Ether
Concen: 2.116 ppbv
RT: 2.441 min Scan# 727
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



Tgt Ion: 73 Resp: 27905
Ion Ratio Lower Upper
73 100
57 28.1 21.3 31.9





#29

Chloroform

Concen: 2.072 ppbv

RT: 2.848 min Scan# 81

Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

Tgt Ion: 83 Resp: 58940

Ion Ratio Lower Upper

83 100

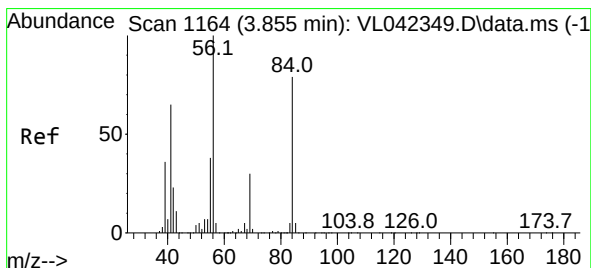
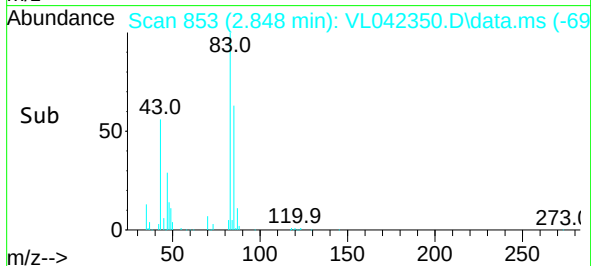
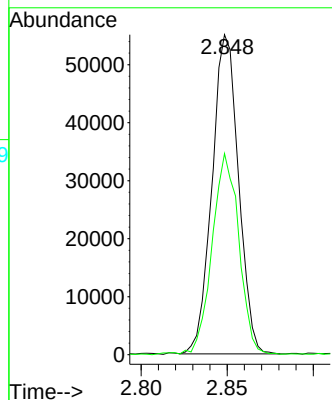
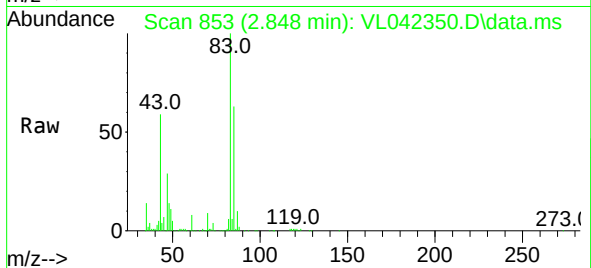
85 62.9 50.0 75.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#30

Cyclohexane

Concen: 2.048 ppbv

RT: 3.858 min Scan# 1165

Delta R.T. 0.003 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

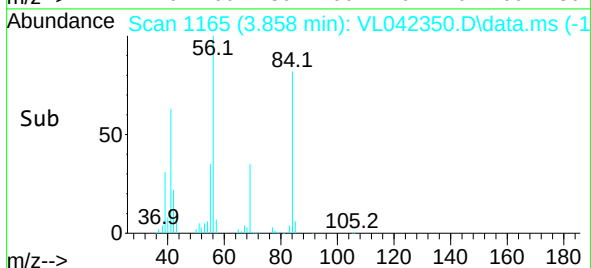
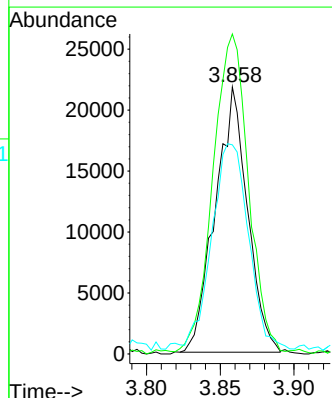
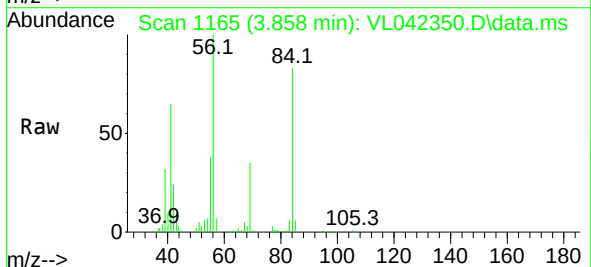
Tgt Ion: 84 Resp: 33195

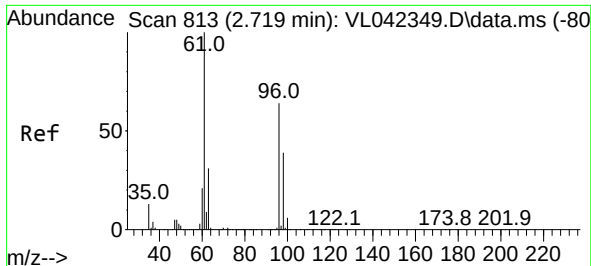
Ion Ratio Lower Upper

84 100

56 134.5 101.0 151.4

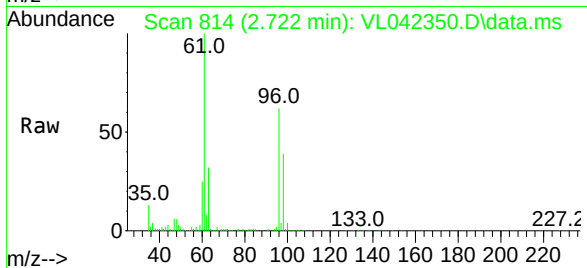
41 88.1 67.4 101.0





#31
 cis-1,2-Dichloroethene
 Concen: 2.051 ppbv
 RT: 2.722 min Scan# 813
 Delta R.T. 0.003 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

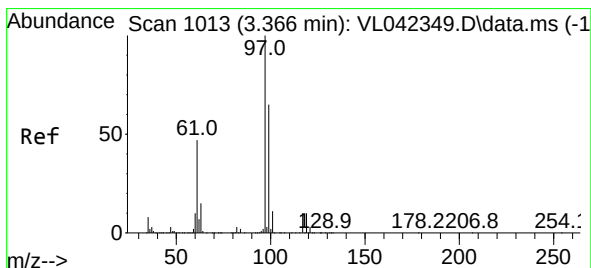
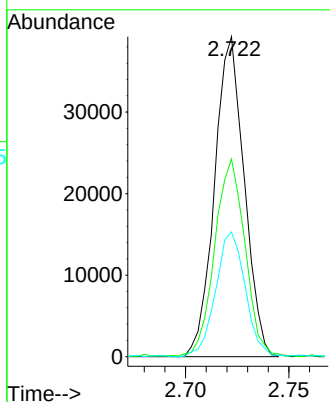
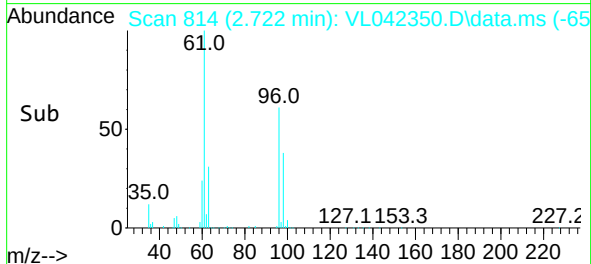
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002



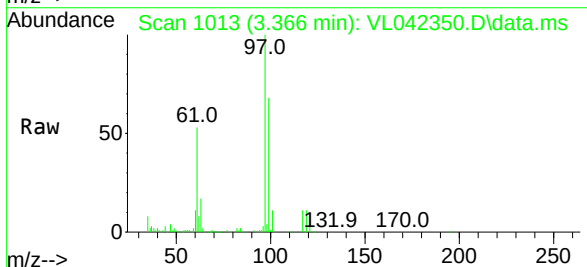
Tgt Ion: 61 Resp: 39249
 Ion Ratio Lower Upper
 61 100
 96 61.6 50.8 76.2
 98 39.0 30.9 46.3

Manual Integrations
 APPROVED

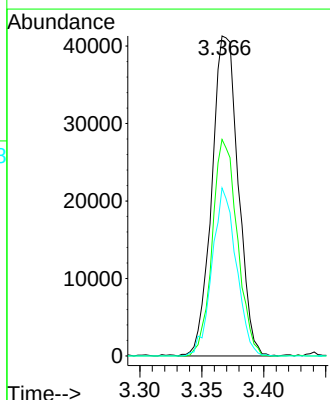
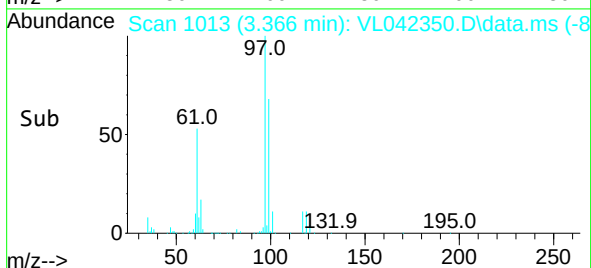
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

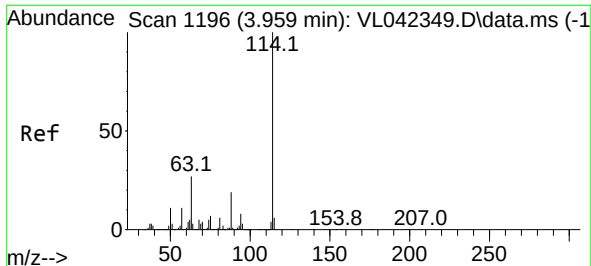


#32
 1,1,1-Trichloroethane
 Concen: 2.014 ppbv
 RT: 3.366 min Scan# 1013
 Delta R.T. -0.000 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17



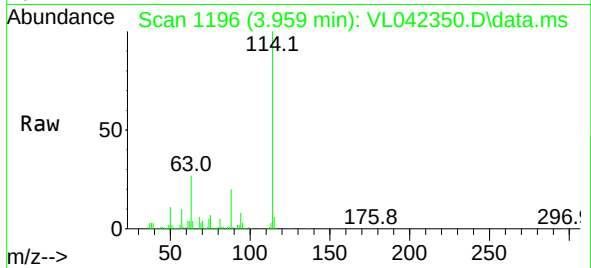
Tgt Ion: 97 Resp: 61442
 Ion Ratio Lower Upper
 97 100
 99 64.0 51.0 76.4
 61 48.0 38.8 58.2





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

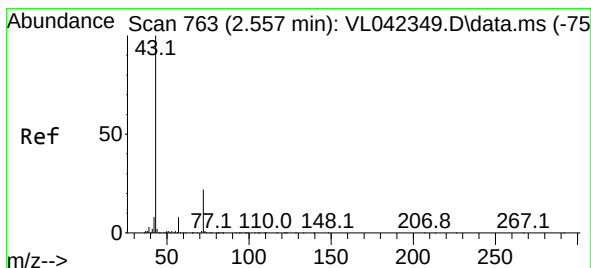
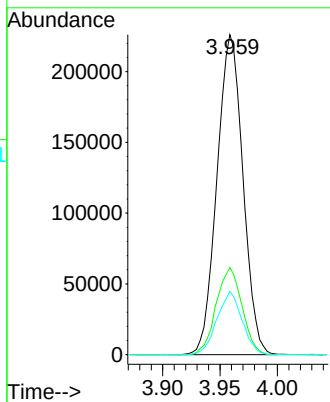
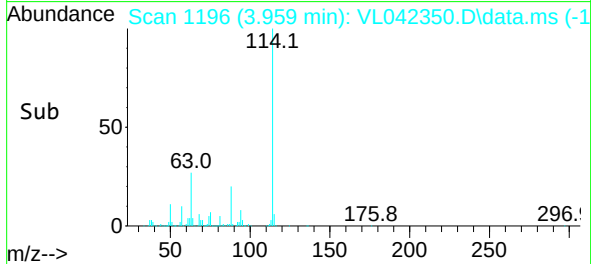
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



Tgt Ion:114 Resp: 355918
Ion Ratio Lower Upper
114 100
63 27.1 21.8 32.6
88 19.0 15.5 23.3

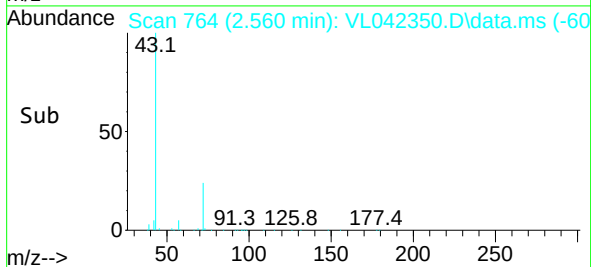
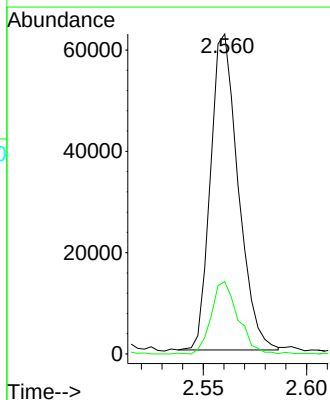
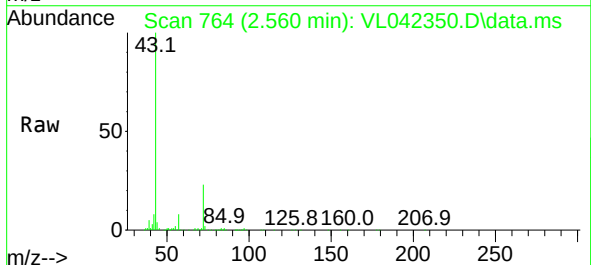
Manual Integrations
APPROVED

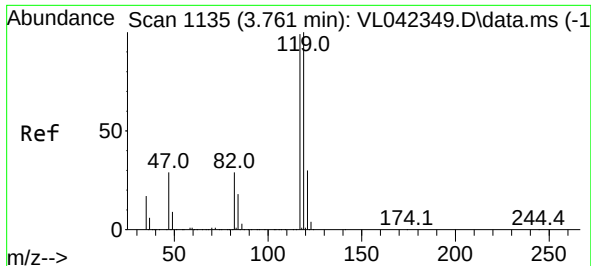
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#34
2-Butanone
Concen: 2.069 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

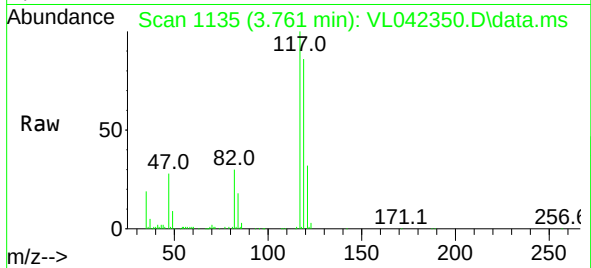
Tgt Ion: 43 Resp: 58249
Ion Ratio Lower Upper
43 100
72 22.5 18.2 27.2





#35
Carbon Tetrachloride
Concen: 1.872 ppbv
RT: 3.761 min Scan# 1135
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

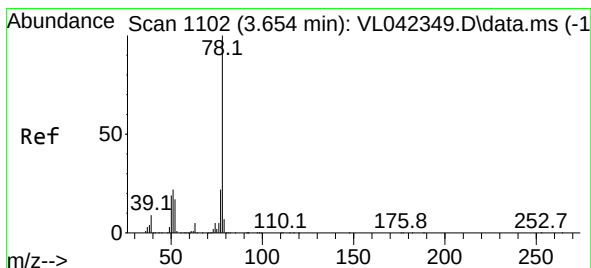
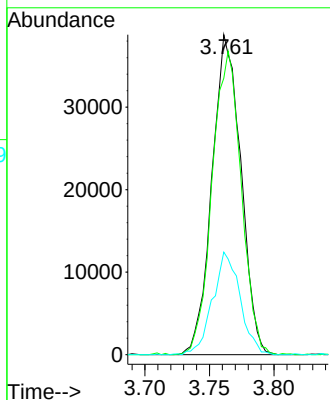
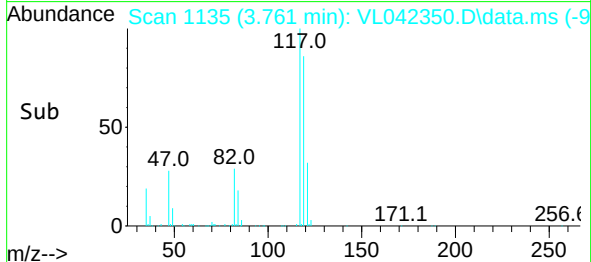
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



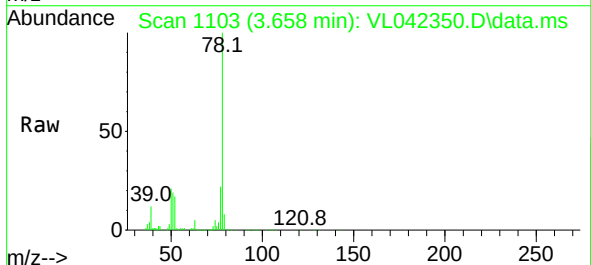
Tgt Ion: 117 Resp: 6029
Ion Ratio Lower Upper
117 100
119 86.4 80.5 120.7
121 32.1 24.2 36.2

Manual Integrations
APPROVED

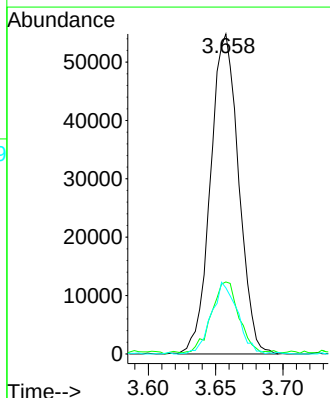
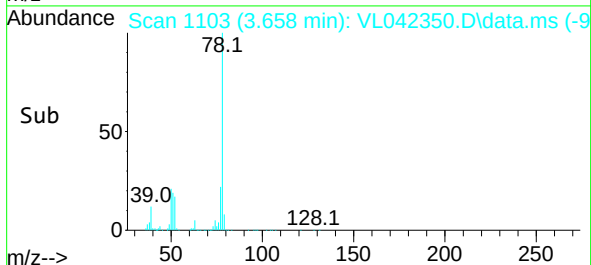
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

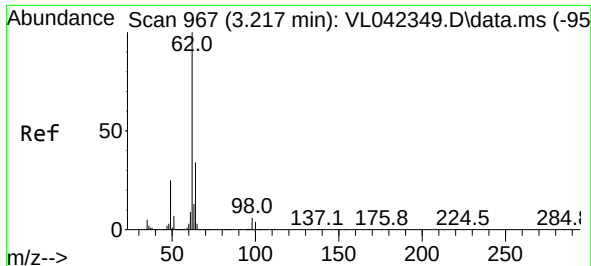


#36
Benzene
Concen: 2.079 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



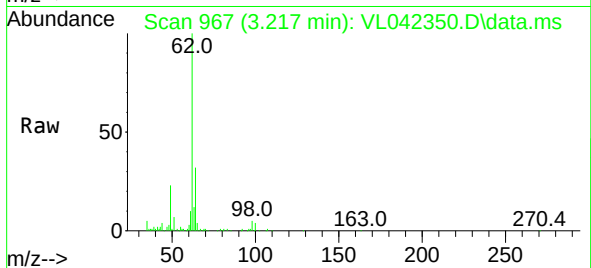
Tgt Ion: 78 Resp: 79814
Ion Ratio Lower Upper
78 100
77 22.0 17.4 26.0
50 20.6 15.5 23.3





#37
1,2-Dichloroethane
Concen: 2.057 ppbv
RT: 3.217 min Scan# 967
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

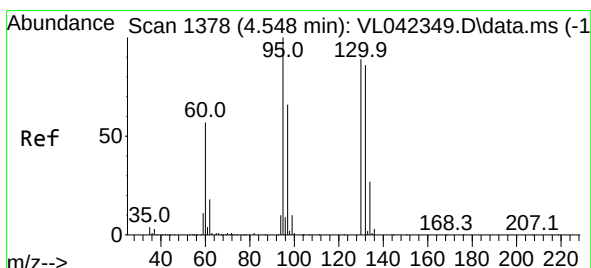
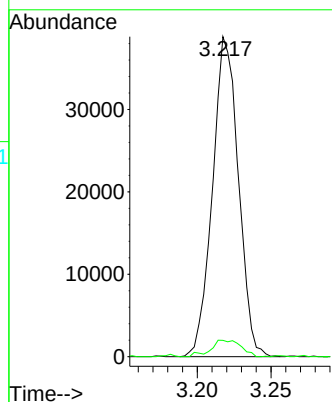
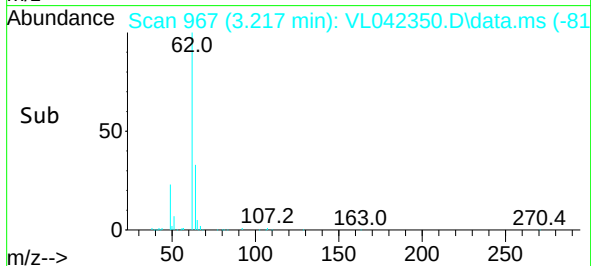
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



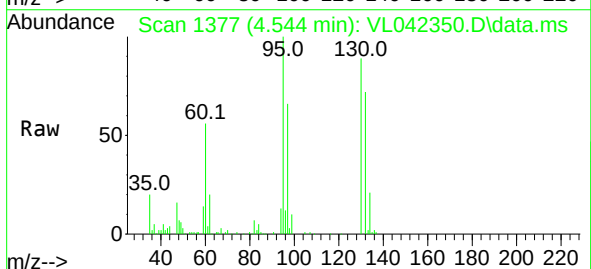
Tgt Ion: 62 Resp: 47398
Ion Ratio Lower Upper
62 100
98 6.4 5.1 7.7

Manual Integrations
APPROVED

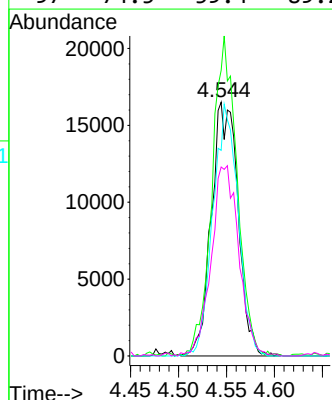
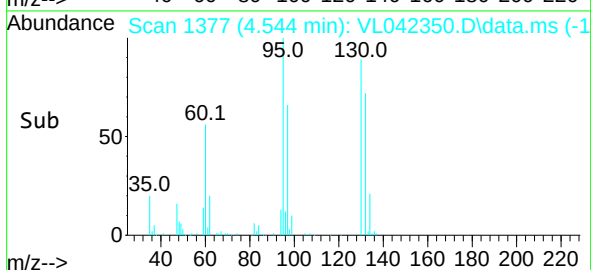
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

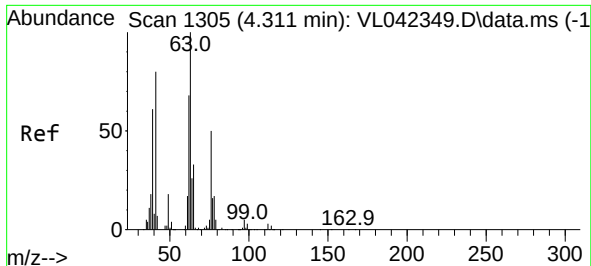


#38
Trichloroethene
Concen: 1.891 ppbv m
RT: 4.544 min Scan# 1377
Delta R.T. -0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



Tgt Ion:130 Resp: 31826
Ion Ratio Lower Upper
130 100
95 112.6 89.8 134.6
132 81.1 77.7 116.5
97 74.5 59.4 89.2





#39

1,2-Dichloropropane

Concen: 2.012 ppbv

RT: 4.315 min Scan# 1305

Delta R.T. 0.003 min

Lab File: VL042350.D

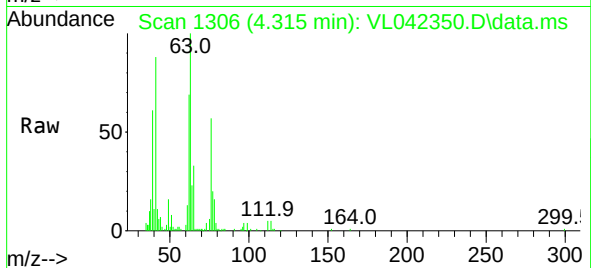
Acq: 17 Apr 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002



Tgt Ion: 63 Resp: 28800

Ion Ratio Lower Upper

63 100

41 85.2 64.2 96.2

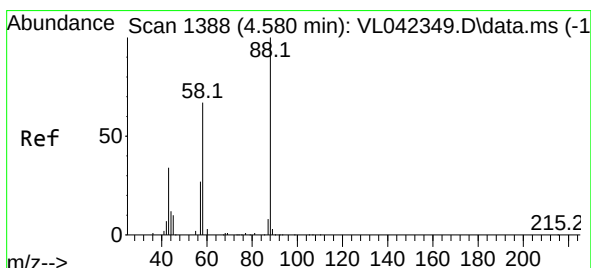
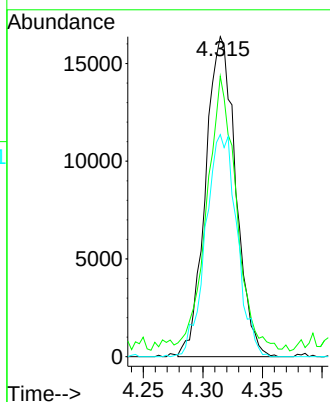
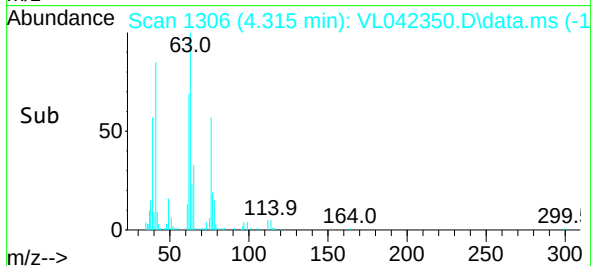
62 69.4 54.3 81.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#40

1,4-Dioxane

Concen: 2.133 ppbv m

RT: 4.593 min Scan# 1392

Delta R.T. 0.013 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Tgt Ion: 88 Resp: 16536

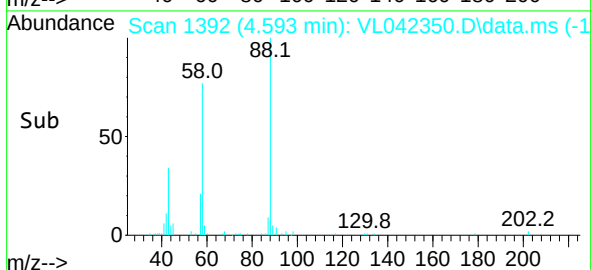
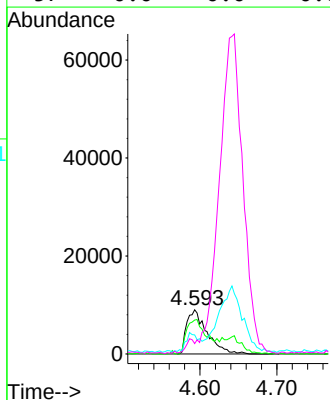
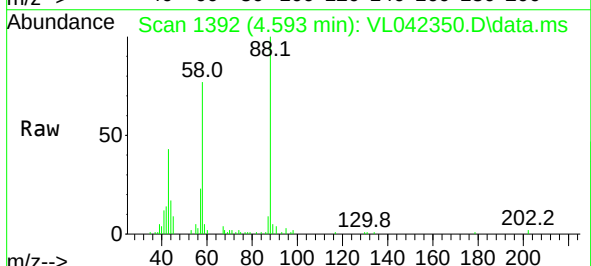
Ion Ratio Lower Upper

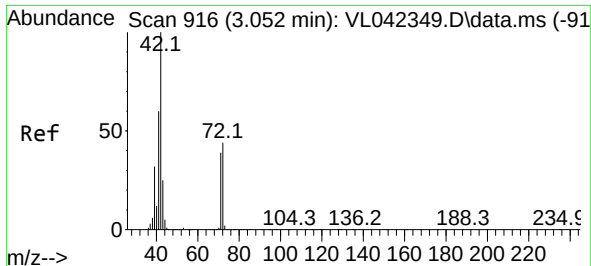
88 100

58 82.3 61.4 92.0

43 6.1 23.2 34.8#

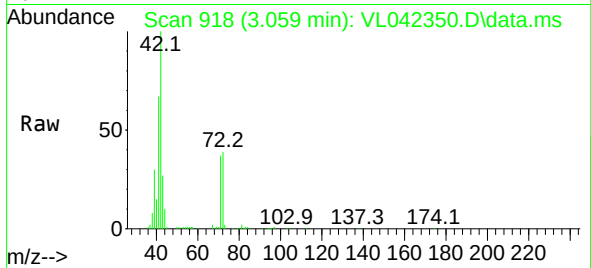
57 0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 2.047 ppbv
RT: 3.059 min Scan# 916
Delta R.T. 0.006 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

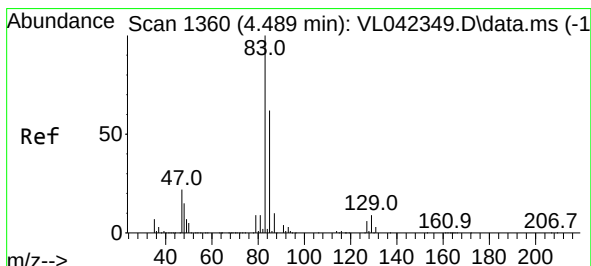
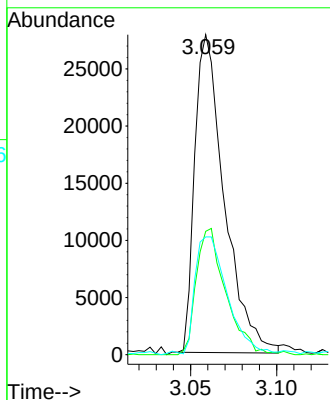
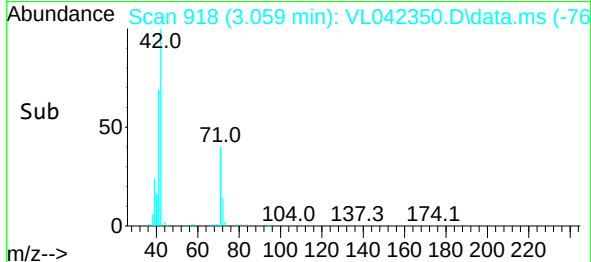
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



Tgt Ion: 42 Resp: 33298
Ion Ratio Lower Upper
42 100
72 39.9 32.3 48.5
71 41.5 31.4 47.2

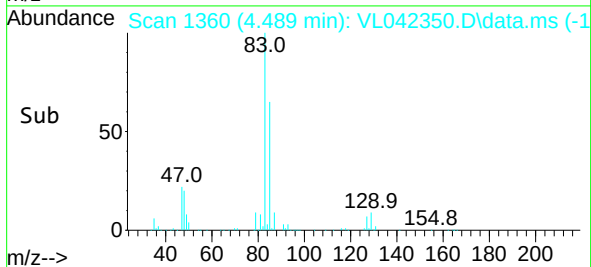
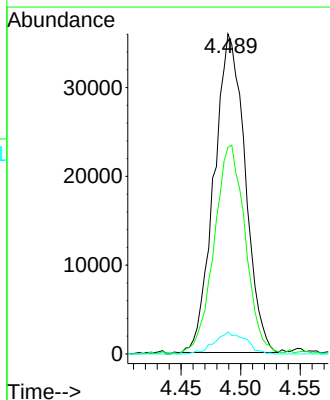
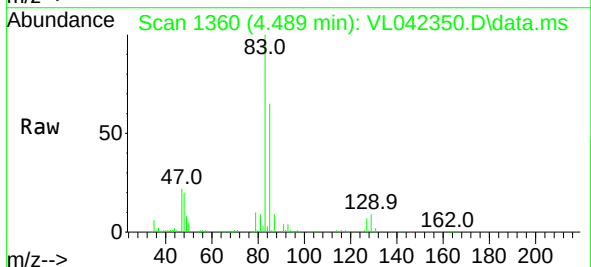
Manual Integrations
APPROVED

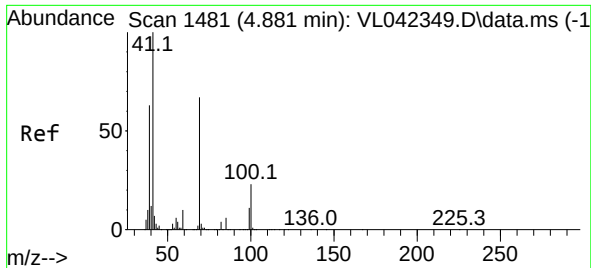
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#42
Bromodichloromethane
Concen: 2.025 ppbv
RT: 4.489 min Scan# 1360
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 83 Resp: 64941
Ion Ratio Lower Upper
83 100
85 64.9 49.7 74.5
127 6.9 5.1 7.7





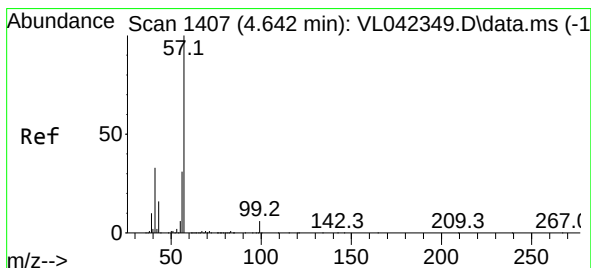
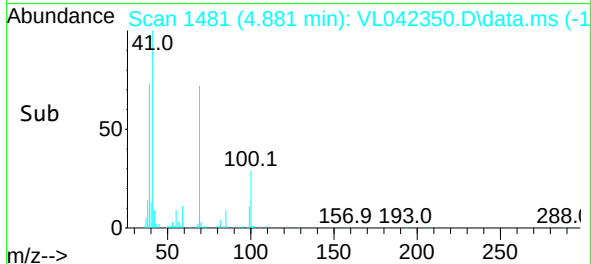
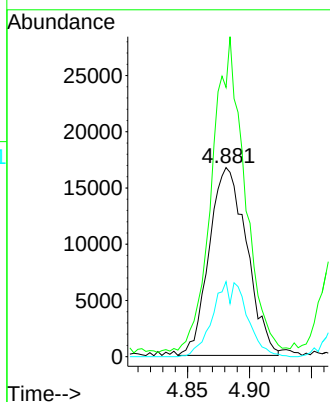
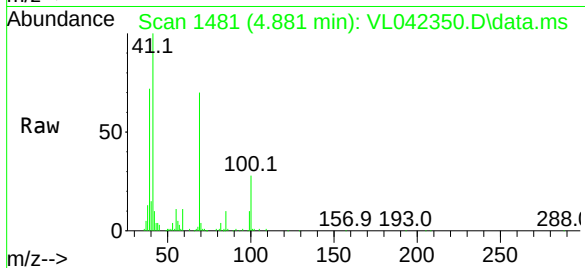
#43
Methyl Methacrylate
Concen: 2.046 ppbv
RT: 4.881 min Scan# 1481
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 69 Resp: 35250
Ion Ratio Lower Upper
69 100
41 144.4 118.6 177.8
100 36.5 28.2 42.2

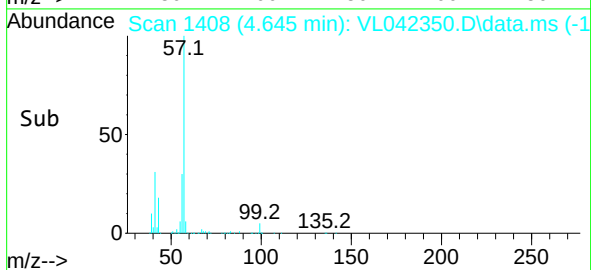
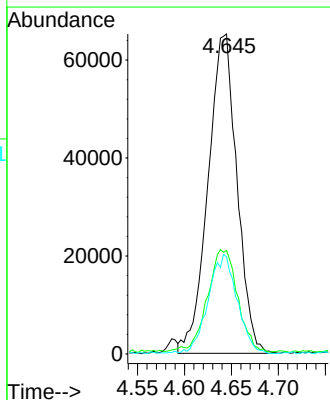
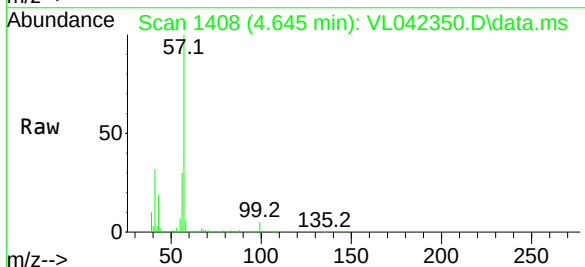
Manual Integrations
APPROVED

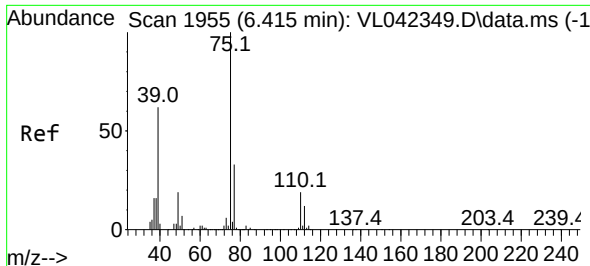
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#44
2,2,4-Trimethylpentane
Concen: 2.103 ppbv
RT: 4.645 min Scan# 1408
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

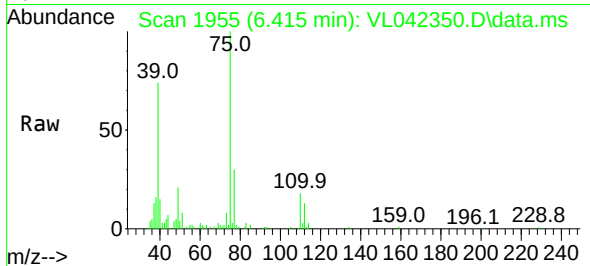
Tgt Ion: 57 Resp: 139641
Ion Ratio Lower Upper
57 100
41 34.4 27.2 40.8
56 31.3 25.7 38.5





#45
 t-1,3-Dichloropropene
 Concen: 2.050 ppbv
 RT: 6.415 min Scan# 1955
 Delta R.T. -0.000 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

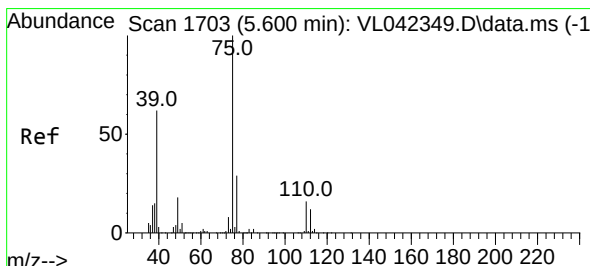
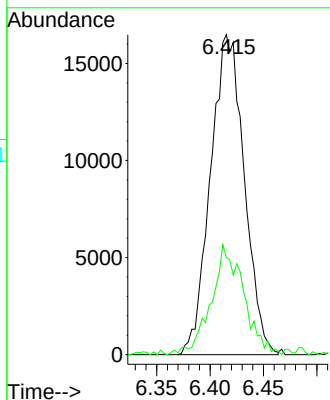
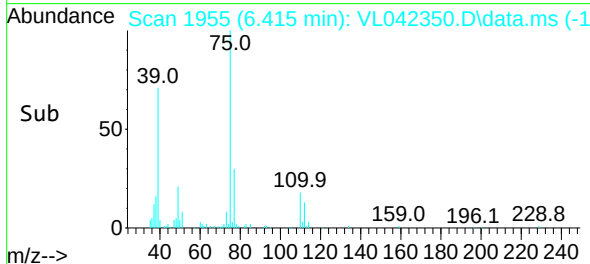
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002



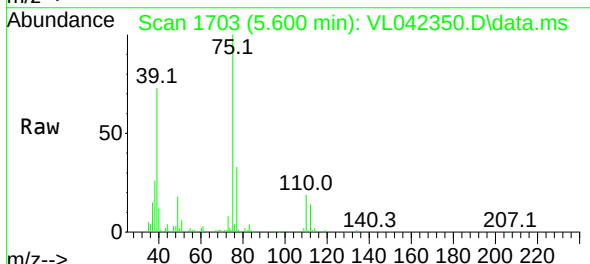
Tgt Ion: 75 Resp: 3626
 Ion Ratio Lower Upper
 75 100
 77 30.4 27.0 40.6

Manual Integrations
 APPROVED

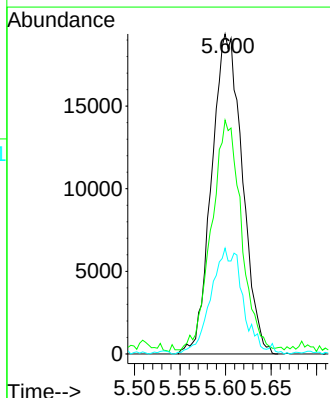
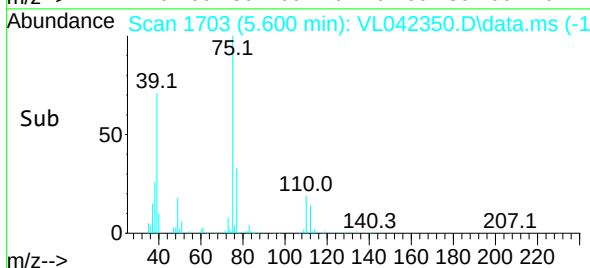
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

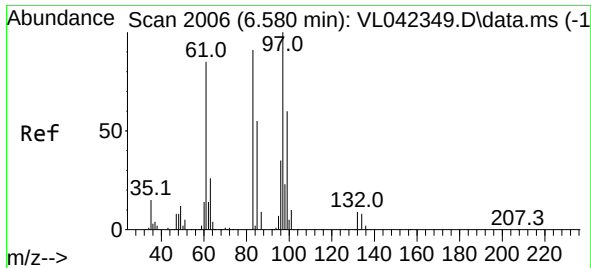


#46
 cis-1,3-Dichloropropene
 Concen: 2.096 ppbv m
 RT: 5.600 min Scan# 1703
 Delta R.T. -0.000 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17



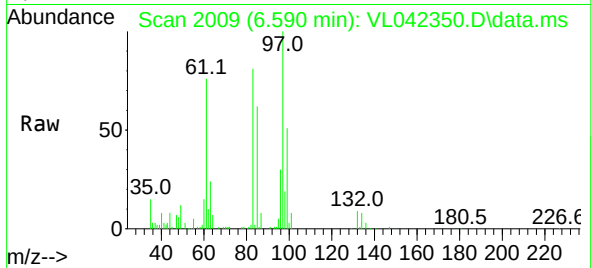
Tgt Ion: 75 Resp: 45327
 Ion Ratio Lower Upper
 75 100
 39 73.0 50.0 75.0
 77 33.1 23.0 34.6





#47
1,1,2-Trichloroethane
Concen: 2.049 ppbv
RT: 6.590 min Scan# 2006
Delta R.T. 0.010 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

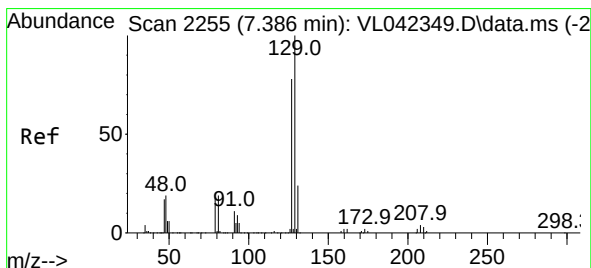
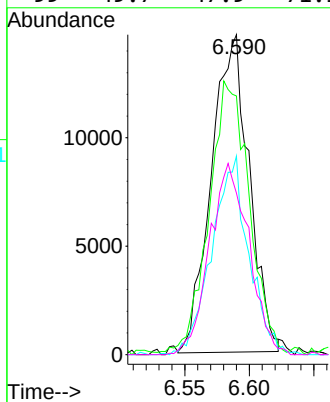
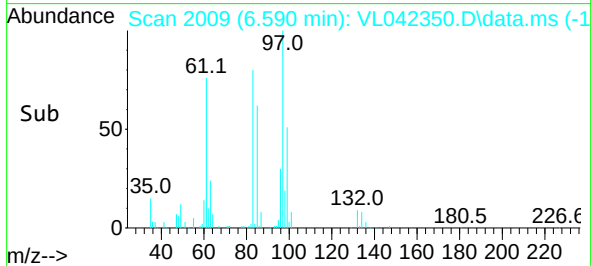
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



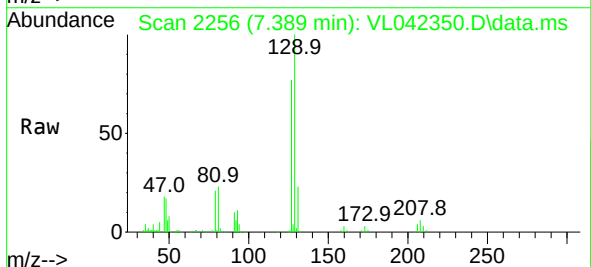
Tgt Ion: 97 Resp: 29879
Ion Ratio Lower Upper
97 100
83 78.8 72.8 109.2
85 61.7 44.2 66.4
99 49.7 47.9 71.9

Manual Integrations
APPROVED

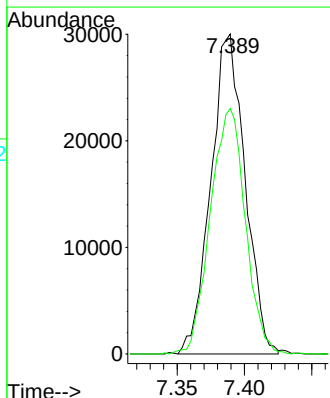
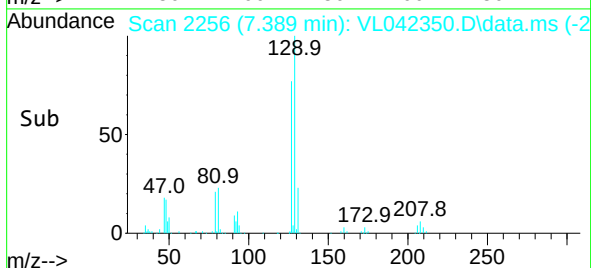
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

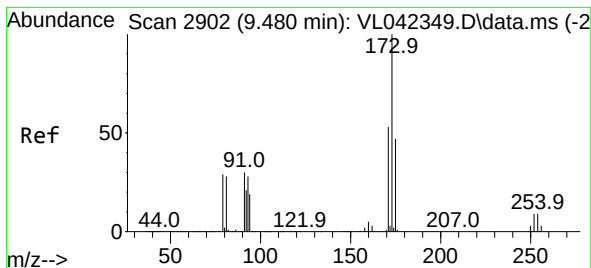


#48
Dibromochloromethane
Concen: 2.061 ppbv
RT: 7.389 min Scan# 2256
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



Tgt Ion:129 Resp: 53069
Ion Ratio Lower Upper
129 100
127 78.4 39.1 117.3





#49

Bromoform

Concen: 2.135 ppbv

RT: 9.483 min Scan# 2902

Delta R.T. 0.003 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

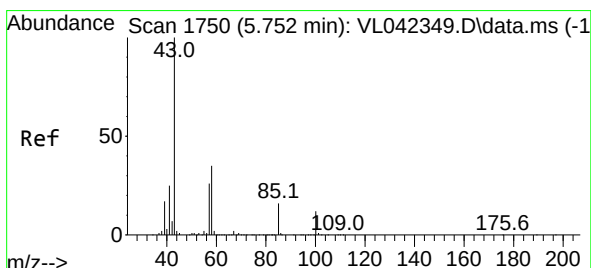
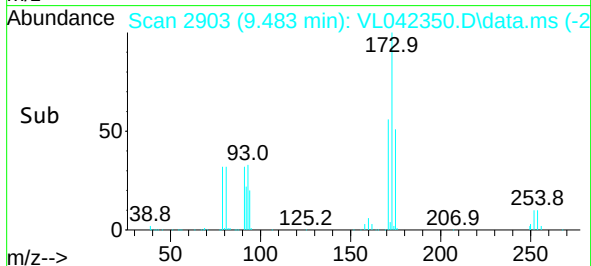
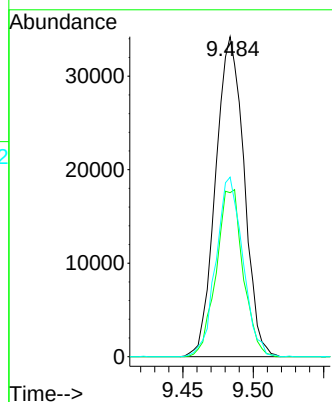
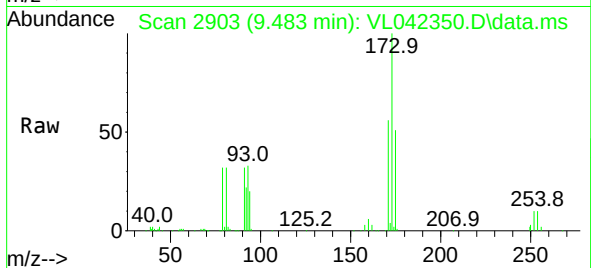
VSTDIC002

Tgt Ion:	173	Resp:	48069
Ion Ratio	Lower	Upper	
173	100		
175	49.4	38.2	57.2
171	53.0	40.9	61.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#50

4-Methyl-2-Pentanone

Concen: 2.180 ppbv

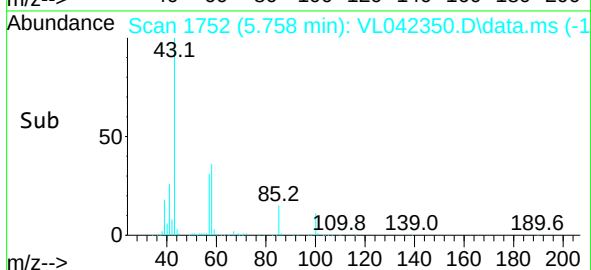
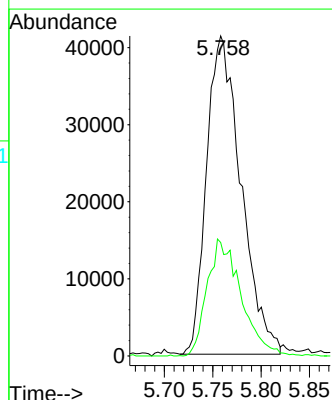
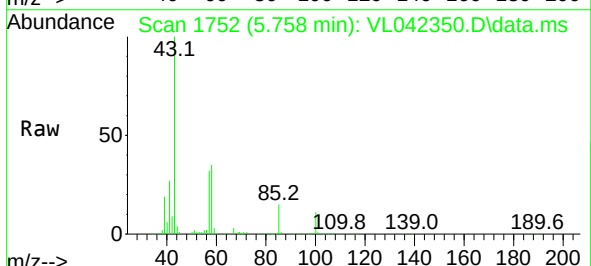
RT: 5.758 min Scan# 1752

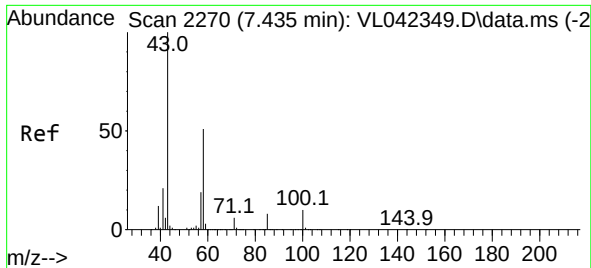
Delta R.T. 0.006 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Tgt Ion:	43	Resp:	102182
Ion Ratio	Lower	Upper	
43	100		
58	36.3	28.6	43.0





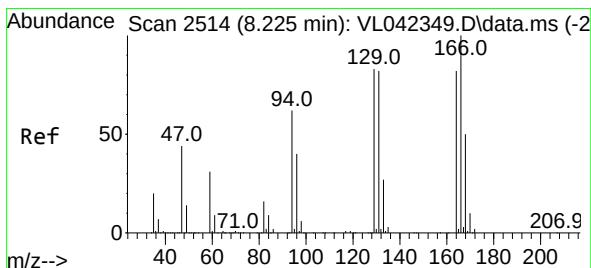
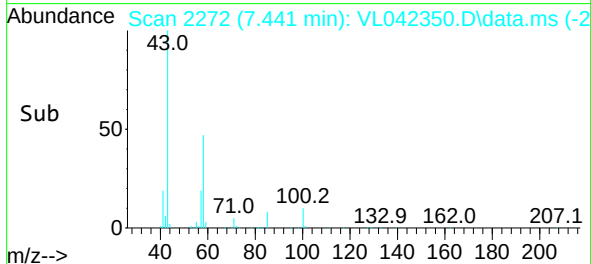
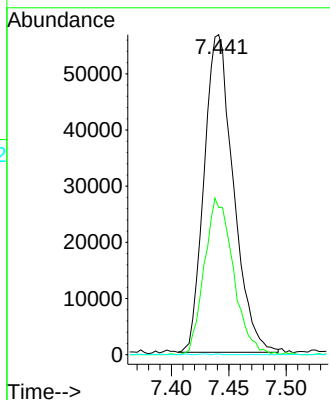
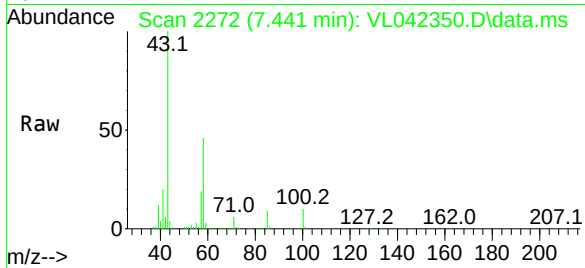
#51
2-Hexanone
Concen: 2.375 ppbv
RT: 7.441 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 43 Resp: 10044
Ion Ratio Lower Upper
43 100
58 49.0 40.2 60.4
98 0.1 0.1 0.1

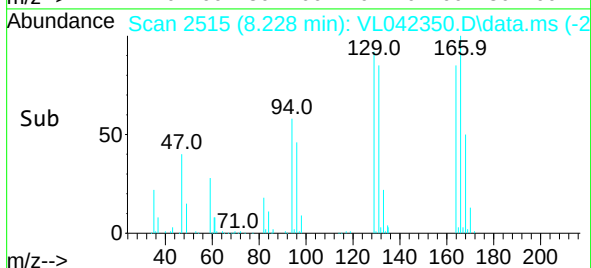
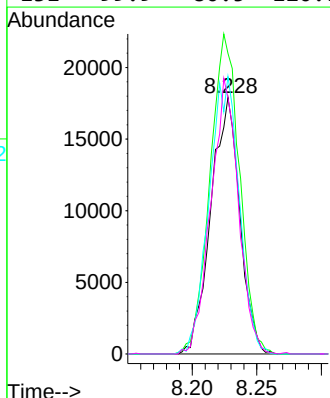
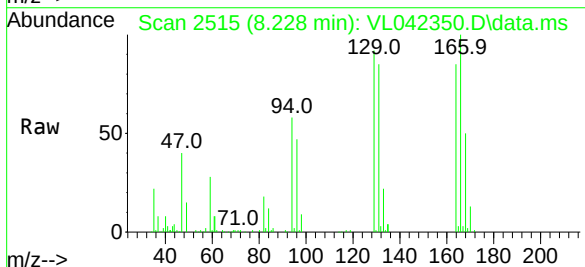
Manual Integrations
APPROVED

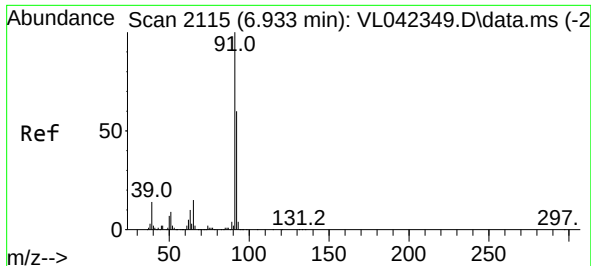
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#52
Tetrachloroethene
Concen: 1.877 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

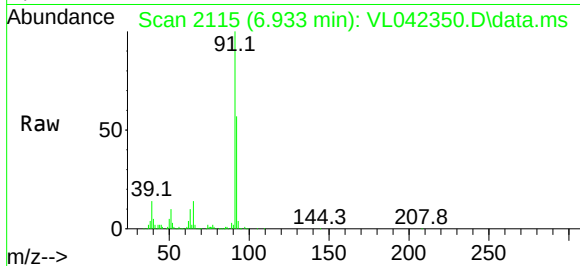
Tgt Ion:164 Resp: 27854
Ion Ratio Lower Upper
164 100
166 117.2 98.2 147.2
129 108.2 81.8 122.8
131 99.9 80.5 120.7





#53
Toluene
Concen: 2.116 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

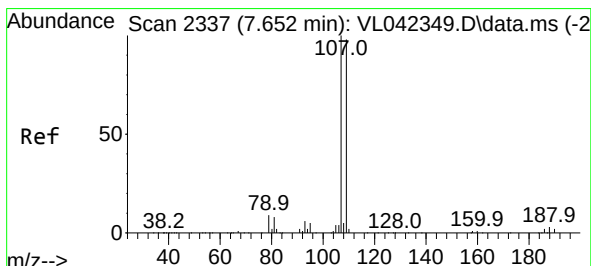
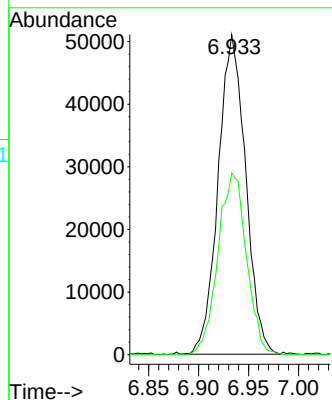
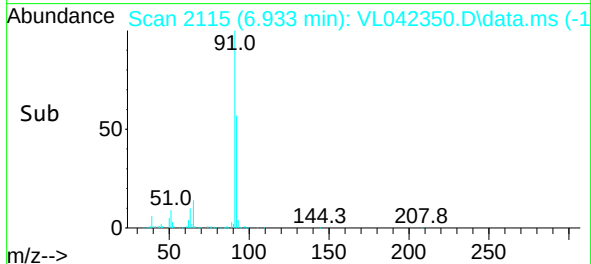
Instrument : MSVOA_L
ClientSampleId : VSTDIC002



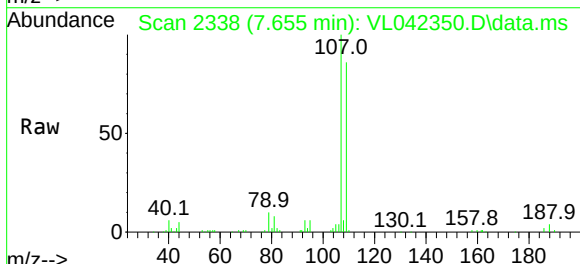
Tgt Ion: 91 Resp: 9749
Ion Ratio Lower Upper
91 100
92 59.1 48.2 72.4

Manual Integrations
APPROVED

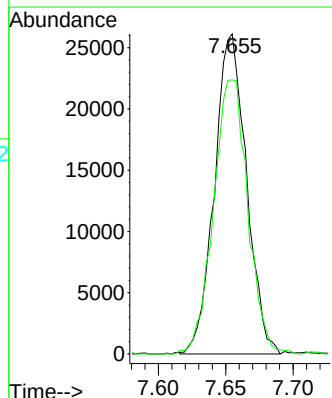
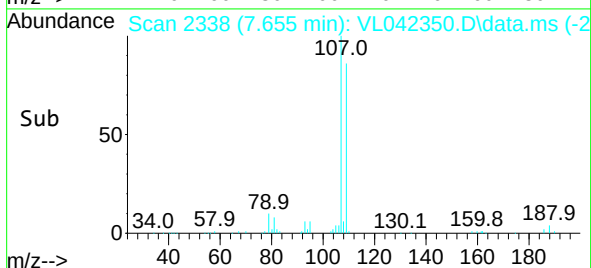
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

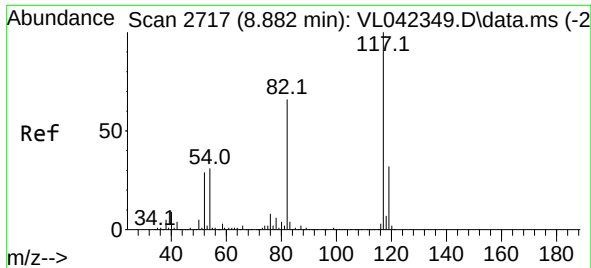


#54
1,2-Dibromoethane
Concen: 2.076 ppbv
RT: 7.655 min Scan# 2338
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



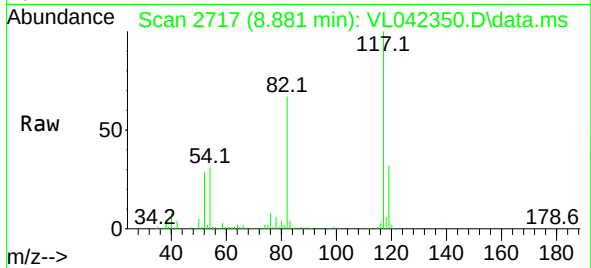
Tgt Ion:107 Resp: 43153
Ion Ratio Lower Upper
107 100
109 84.5 78.2 117.4





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.881 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

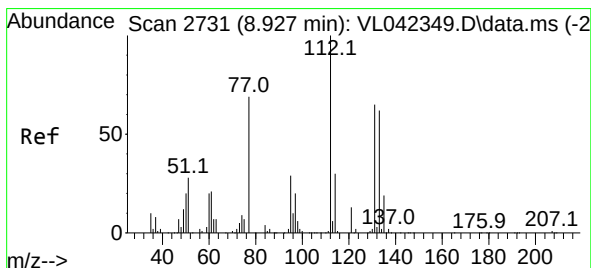
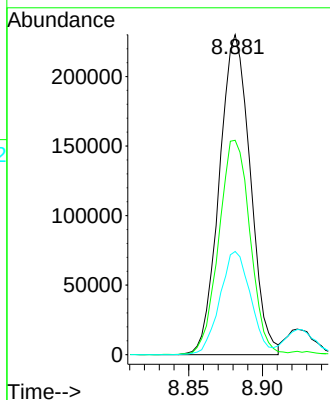
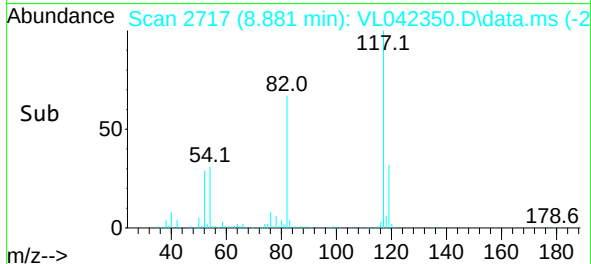
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



Tgt Ion:117 Resp: 33560
Ion Ratio Lower Upper
117 100
82 68.8 57.8 86.6
119 32.2 25.2 37.8

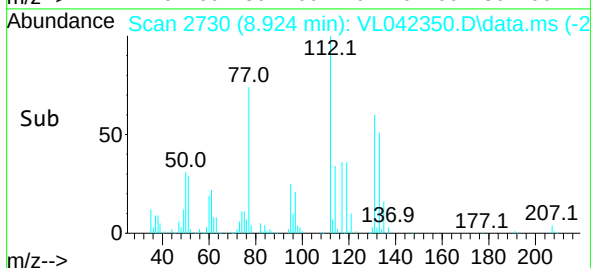
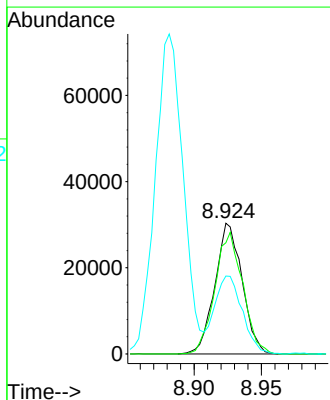
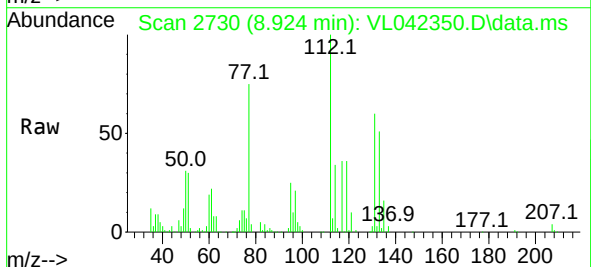
Manual Integrations
APPROVED

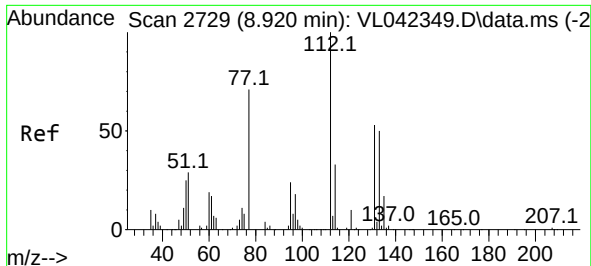
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#56
1,1,1,2-Tetrachloroethane
Concen: 2.097 ppbv
RT: 8.924 min Scan# 2730
Delta R.T. -0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:131 Resp: 42601
Ion Ratio Lower Upper
131 100
133 95.3 78.3 117.5
119 53.8 48.7 73.1





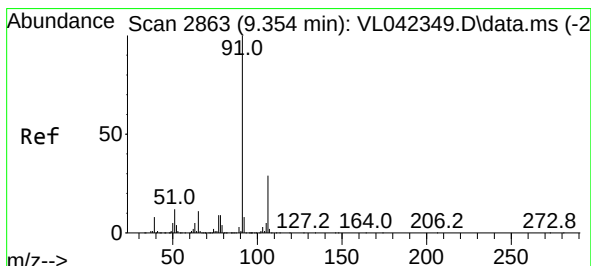
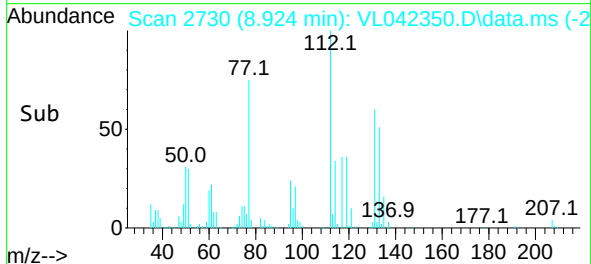
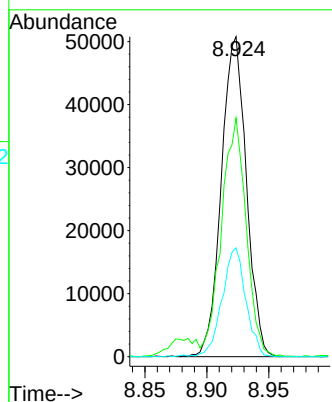
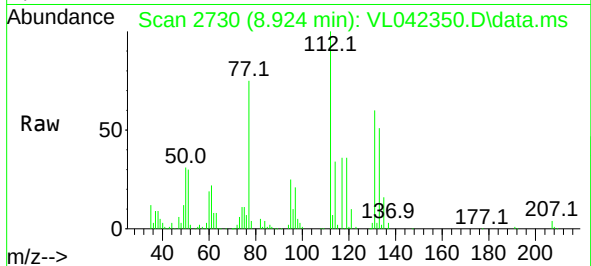
#57
Chlorobenzene
Concen: 2.054 ppbv
RT: 8.924 min Scan# 2729
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion: 112 Resp: 71685
Ion Ratio Lower Upper
112 100
77 74.0 57.8 86.6
114 34.0 29.3 35.9

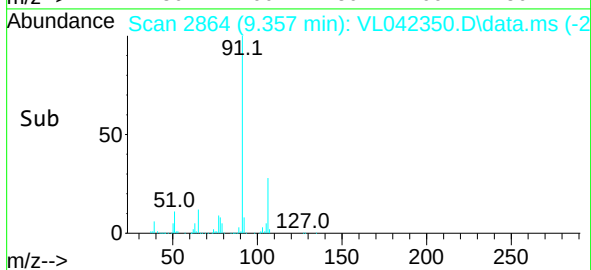
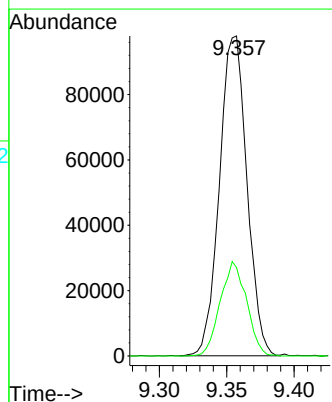
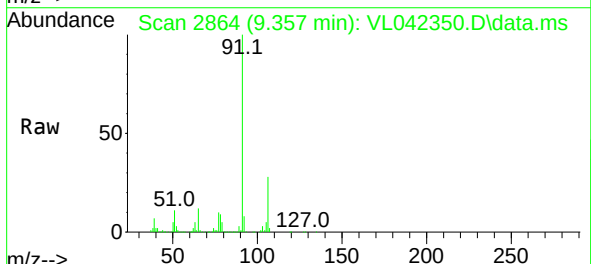
Manual Integrations
APPROVED

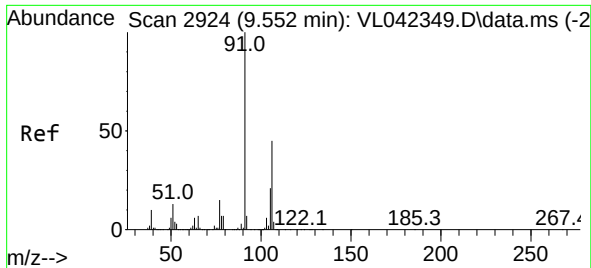
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#58
Ethyl Benzene
Concen: 2.088 ppbv
RT: 9.357 min Scan# 2864
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

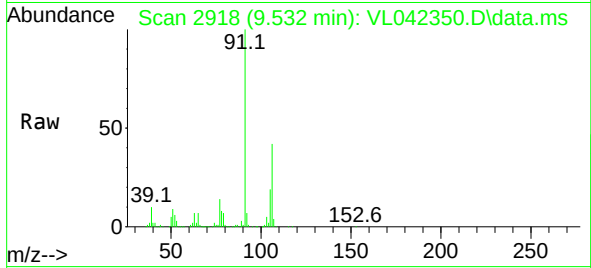
Tgt Ion: 91 Resp: 138810
Ion Ratio Lower Upper
91 100
106 27.7 23.0 34.4





#59
m/p-Xylene
Concen: 4.142 ppbv m
RT: 9.532 min Scan# 2918
Delta R.T. -0.019 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

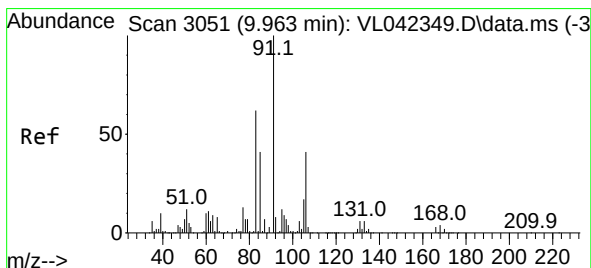
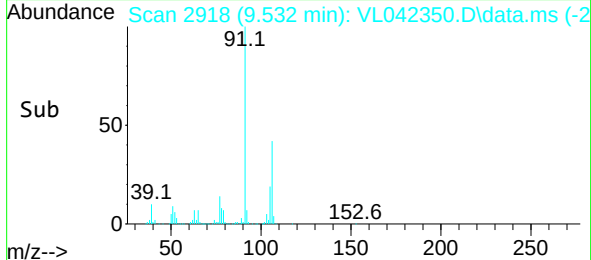
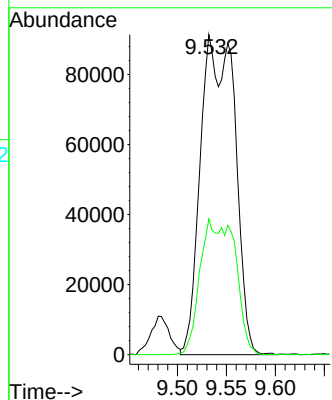
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



Tgt Ion: 91 Resp: 22254
Ion Ratio Lower Upper
91 100
106 0.0 35.4 53.2

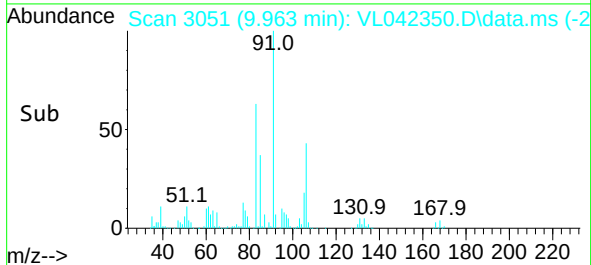
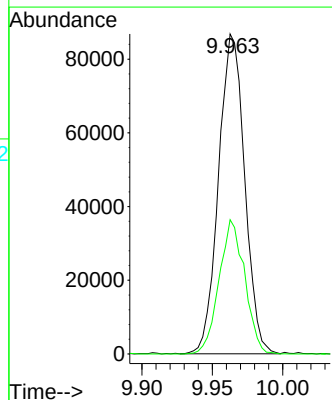
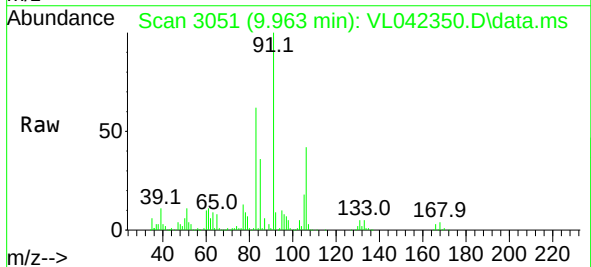
Manual Integrations
APPROVED

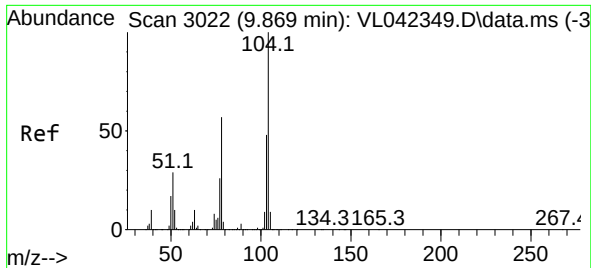
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#60
o-Xylene
Concen: 2.076 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 91 Resp: 111972
Ion Ratio Lower Upper
91 100
106 41.2 21.1 63.4





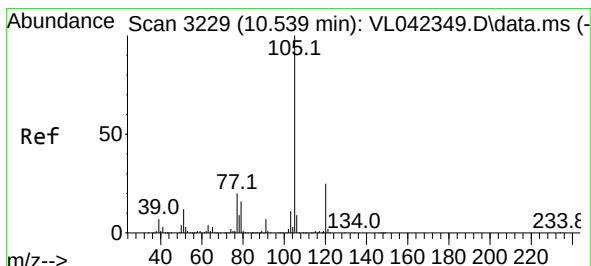
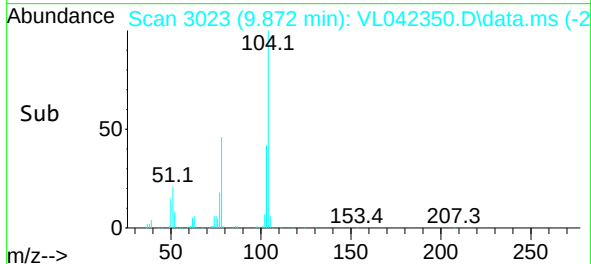
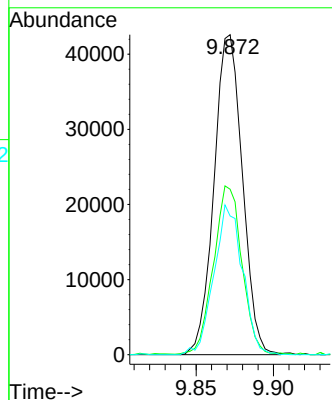
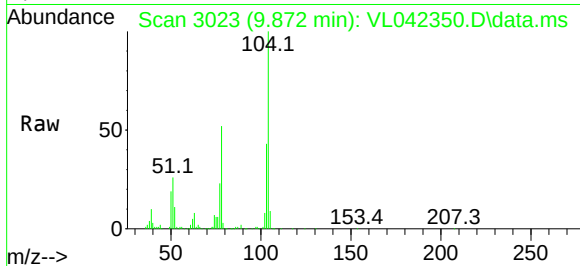
#61
Styrene
Concen: 2.106 ppbv
RT: 9.872 min Scan# 3022
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion:104 Resp: 54229
Ion Ratio Lower Upper
104 100
78 53.4 44.6 66.8
103 47.1 37.4 56.0

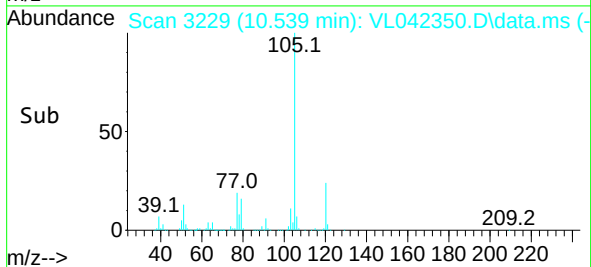
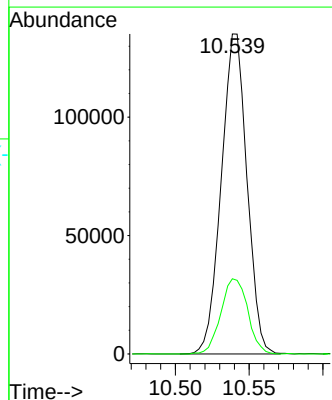
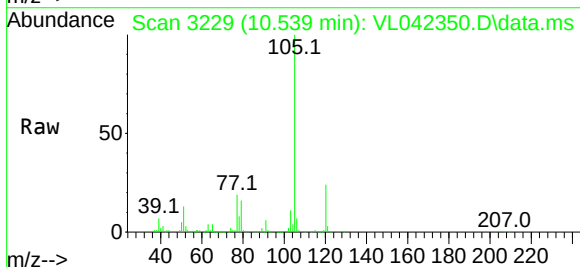
Manual Integrations
APPROVED

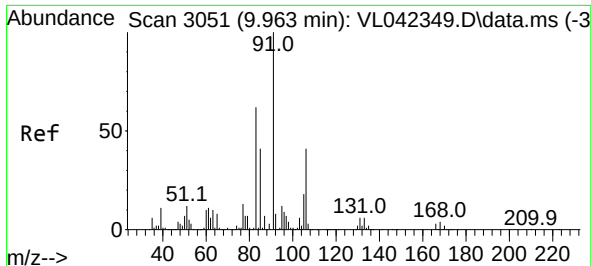
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#62
Isopropylbenzene
Concen: 2.067 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

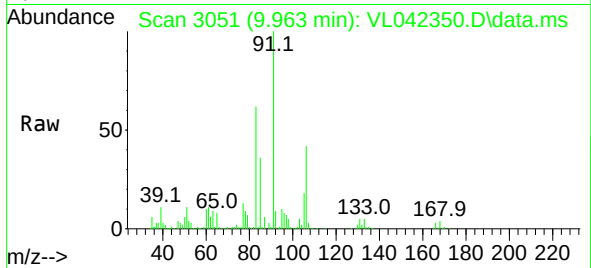
Tgt Ion:105 Resp: 163716
Ion Ratio Lower Upper
105 100
120 24.6 19.8 29.8





#63
1,1,2,2-Tetrachloroethane
Concen: 1.853 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

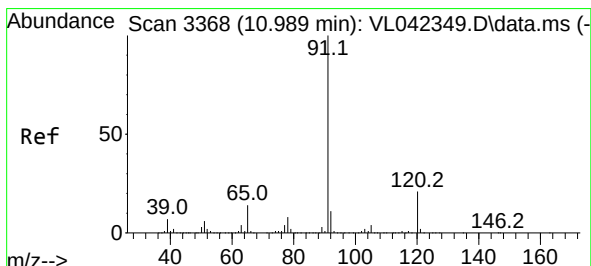
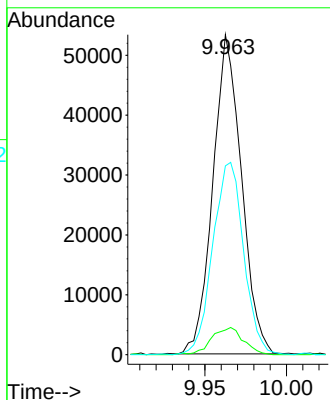
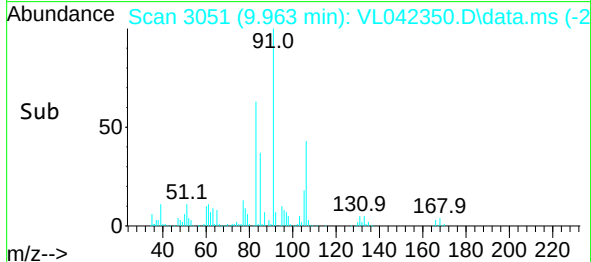
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



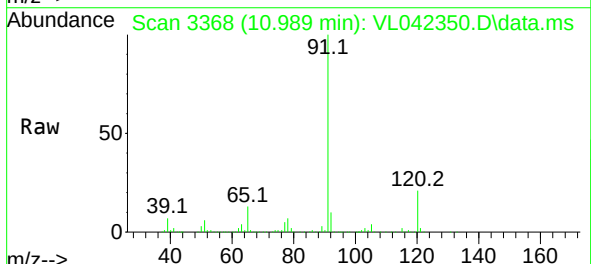
Tgt Ion: 83 Resp: 64952
Ion Ratio Lower Upper
83 100
131 9.6 4.5 13.7
85 65.4 32.4 97.0

Manual Integrations
APPROVED

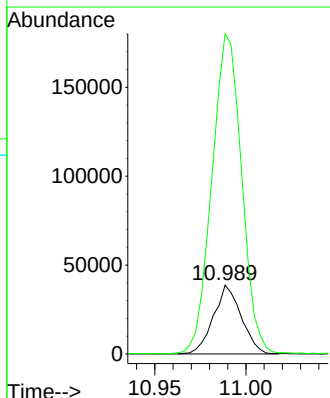
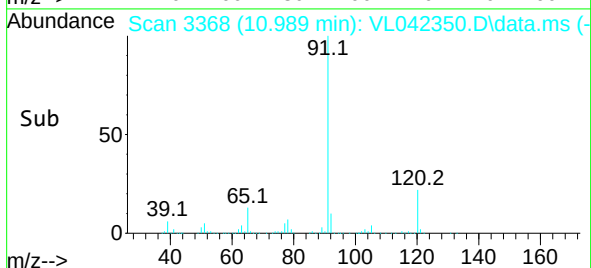
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

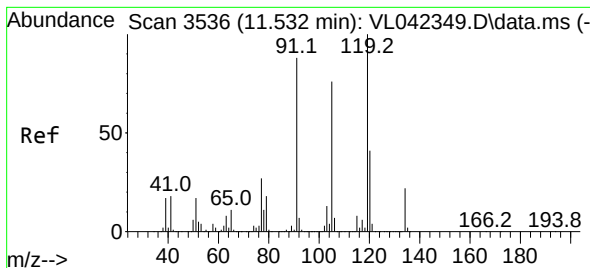


#64
n-propylbenzene
Concen: 2.058 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



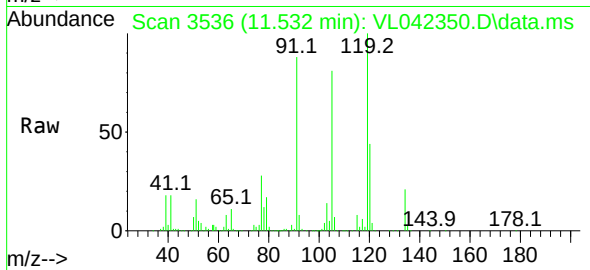
Tgt Ion:120 Resp: 40956
Ion Ratio Lower Upper
120 100
91 502.0 392.4 588.6





#65
tert-Butylbenzene
Concen: 2.135 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

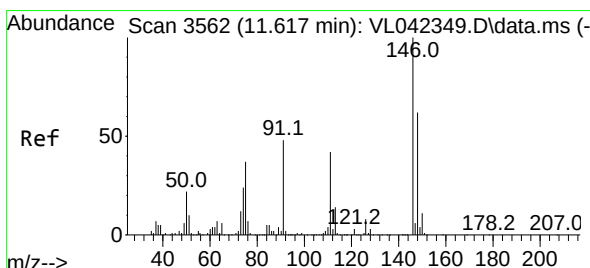
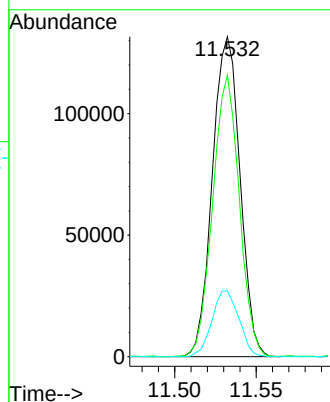
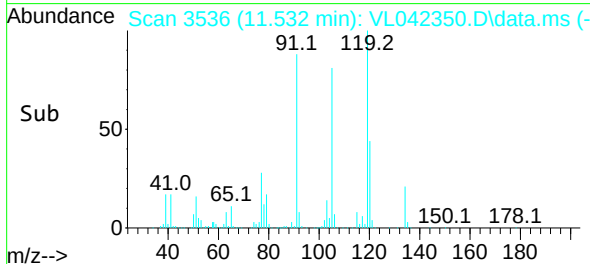
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



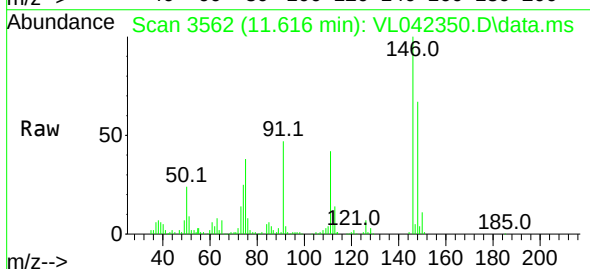
Tgt Ion: 119 Resp: 15540
Ion Ratio Lower Upper
119 100
91 85.0 74.6 111.8
134 20.1 18.8 28.2

Manual Integrations
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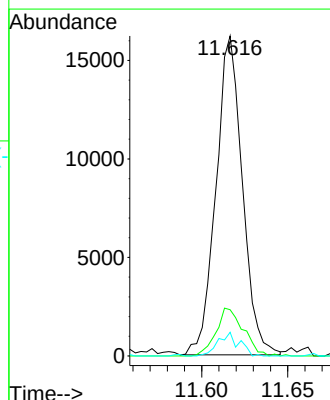
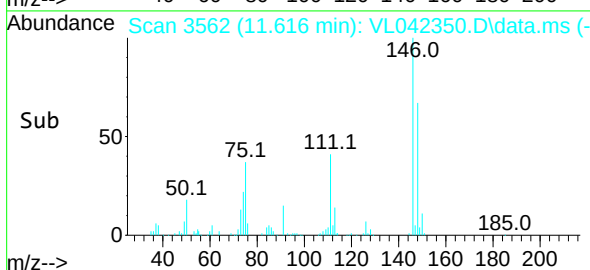
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

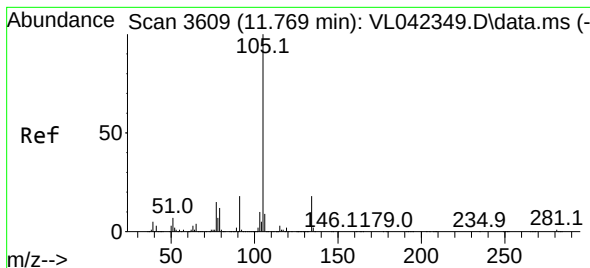


#66
Benzyl Chloride
Concen: 2.163 ppbv
RT: 11.616 min Scan# 3562
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



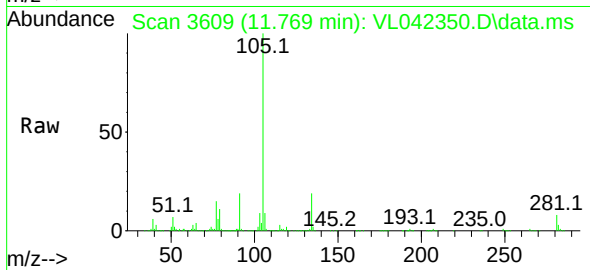
Tgt Ion: 91 Resp: 17300
Ion Ratio Lower Upper
91 100
126 15.6 11.8 17.6
128 6.1 4.5 6.7





#67
 sec-Butylbenzene
 Concen: 2.156 ppbv
 RT: 11.769 min Scan# 3609
 Delta R.T. -0.000 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

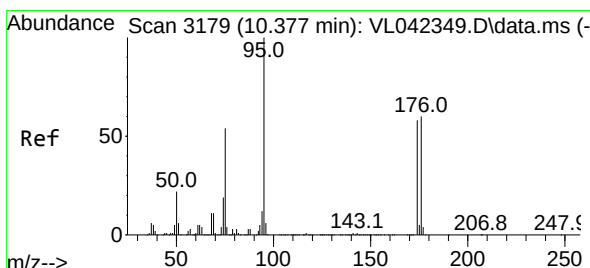
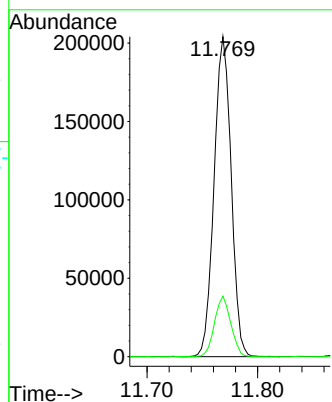
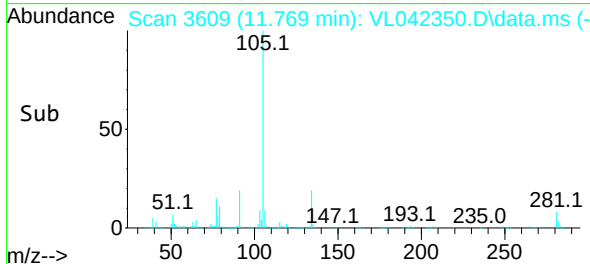
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002



Tgt Ion: 105 Resp: 21832
 Ion Ratio Lower Upper
 105 100
 134 18.1 14.6 21.8

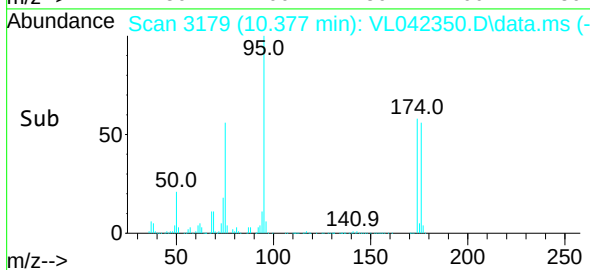
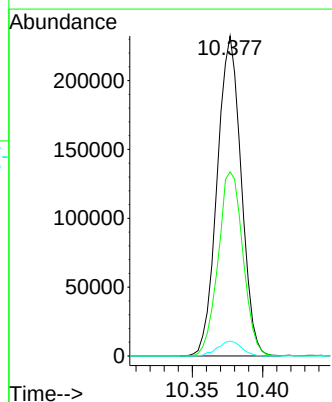
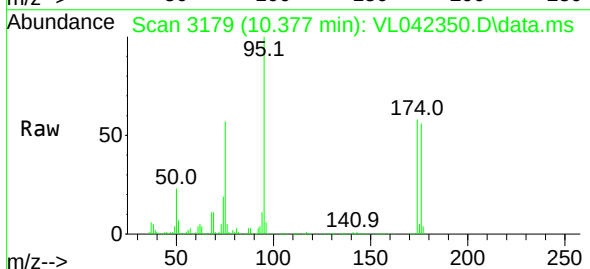
Manual Integrations
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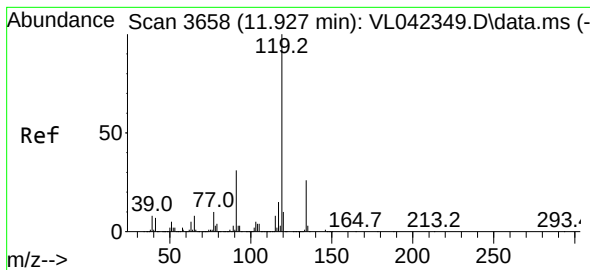
Reviewed By : Semsettin Yesilyurt 04/18/2025
 Supervised By : Mahesh Dadoda 04/18/2025



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.998 ppbv
 RT: 10.377 min Scan# 3179
 Delta R.T. -0.000 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

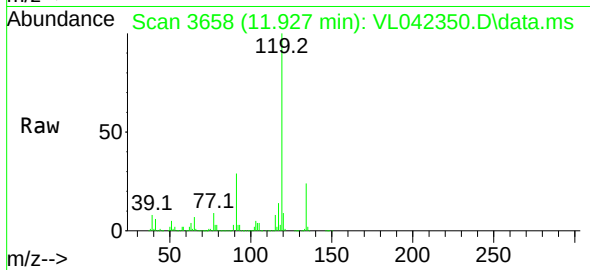
Tgt Ion: 95 Resp: 275715
 Ion Ratio Lower Upper
 95 100
 174 59.6 48.5 72.7
 175 4.7 3.7 5.5





#69
p-Isopropyltoluene
Concen: 2.145 ppbv
RT: 11.927 min Scan# 3658
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

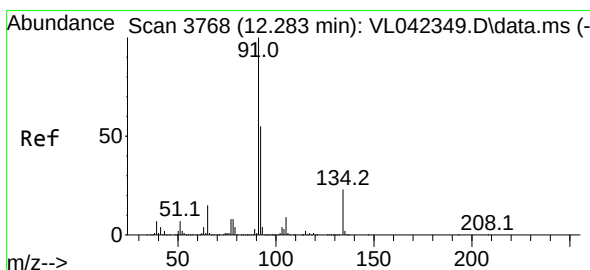
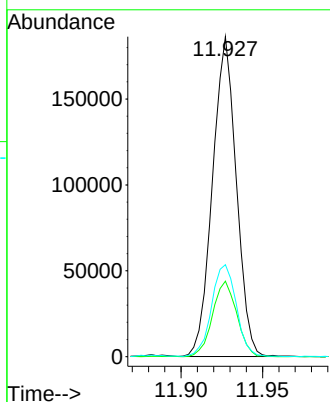
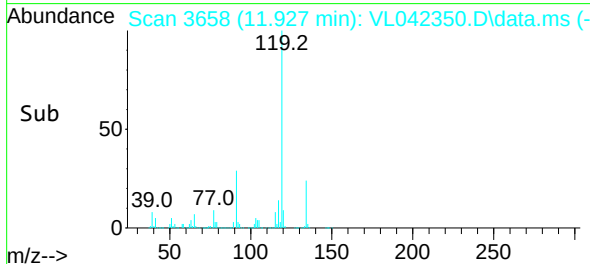
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



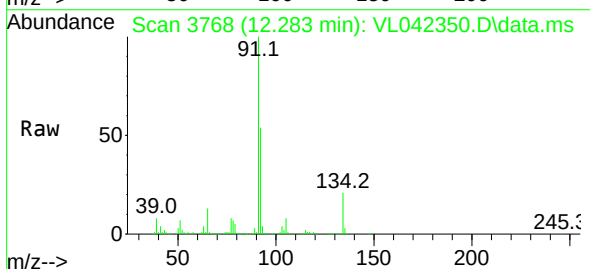
Tgt Ion: 119 Resp: 18865
Ion Ratio Lower Upper
119 100
134 24.2 20.0 30.0
91 30.8 24.4 36.6

Manual Integrations
APPROVED

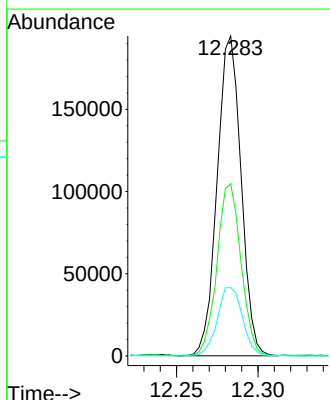
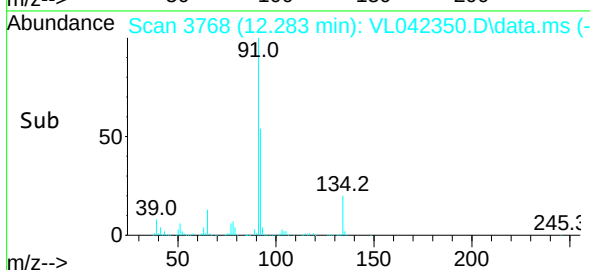
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

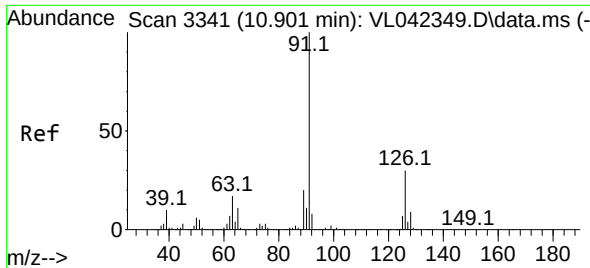


#70
n-Butylbenzene
Concen: 2.164 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



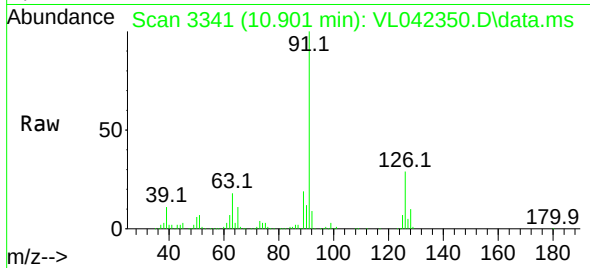
Tgt Ion: 91 Resp: 198221
Ion Ratio Lower Upper
91 100
92 54.4 44.2 66.4
134 22.6 18.2 27.4





#71
2-Chlorotoluene
Concen: 2.075 ppbv
RT: 10.901 min Scan# 3341
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

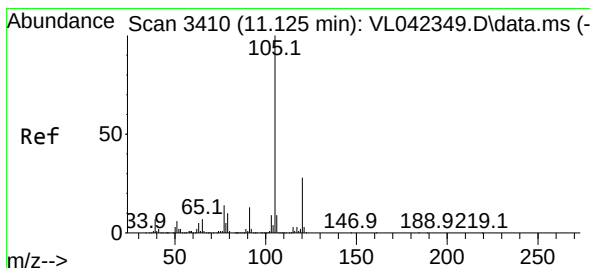
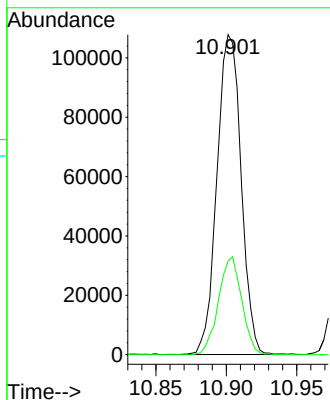
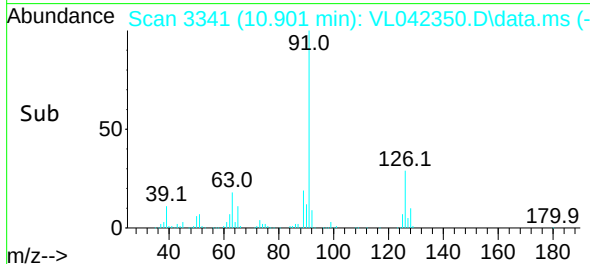
Instrument : MSVOA_L
ClientSampleId : VSTDIC002



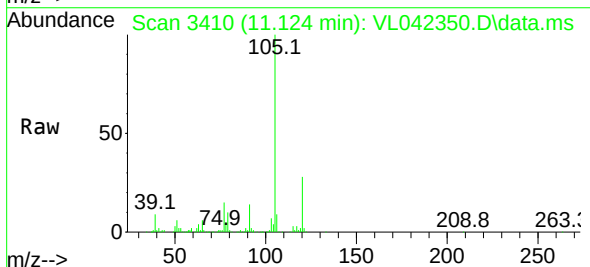
Tgt Ion: 91 Resp: 128858
Ion Ratio Lower Upper
91 100
126 29.5 11.4 45.4

Manual Integrations
APPROVED

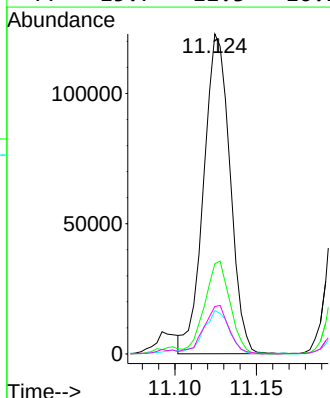
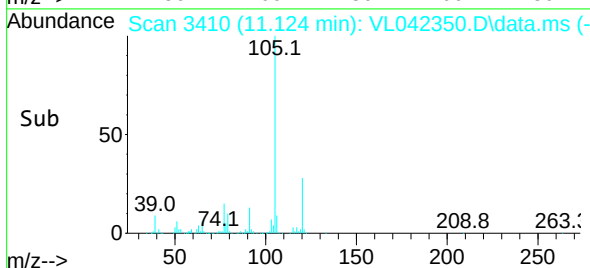
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

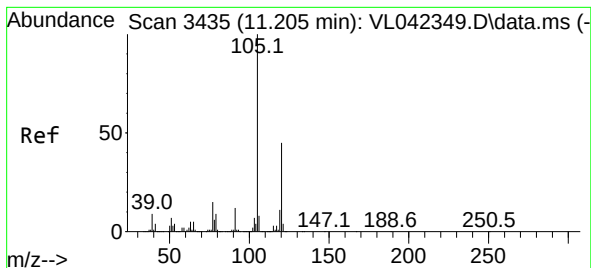


#72
4-Ethyltoluene
Concen: 2.091 ppbv
RT: 11.124 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



Tgt Ion:105 Resp: 137872
Ion Ratio Lower Upper
105 100
120 30.1 23.2 34.8
91 14.4 10.4 15.6
77 15.7 11.3 16.9





#73

1,3,5-Trimethylbenzene

Concen: 2.123 ppbv

RT: 11.205 min Scan# 3435

Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion:105 Resp: 123580

Ion Ratio Lower Upper

105 100

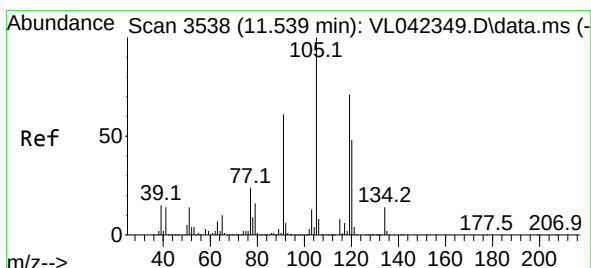
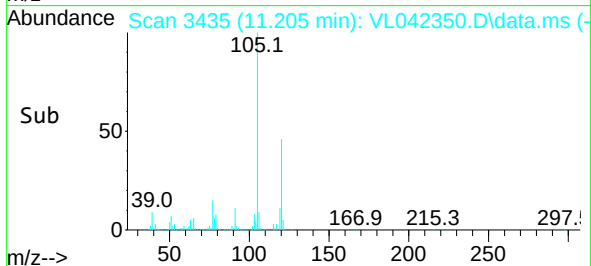
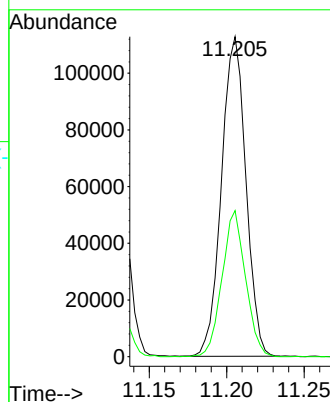
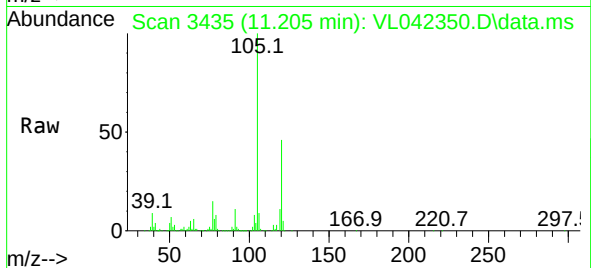
120 45.7 35.6 53.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#74

1,2,4-Trimethylbenzene

Concen: 2.140 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Tgt Ion:105 Resp: 145510

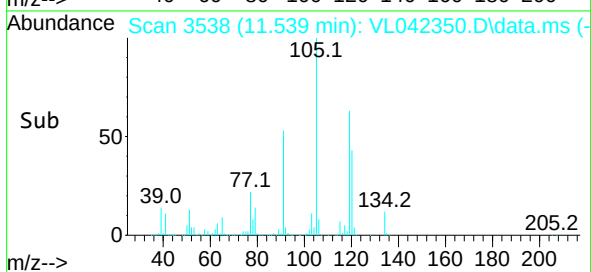
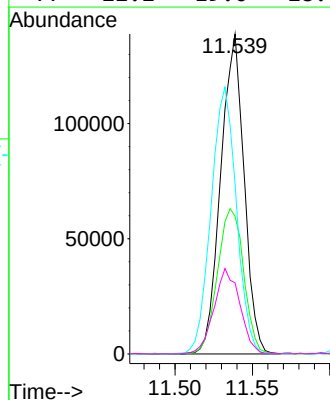
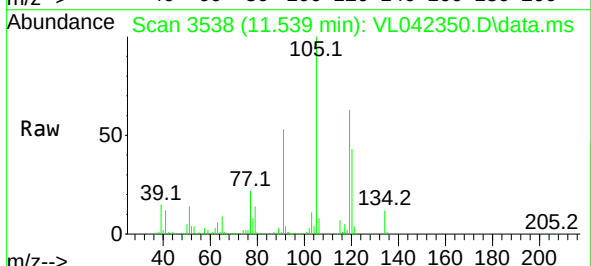
Ion Ratio Lower Upper

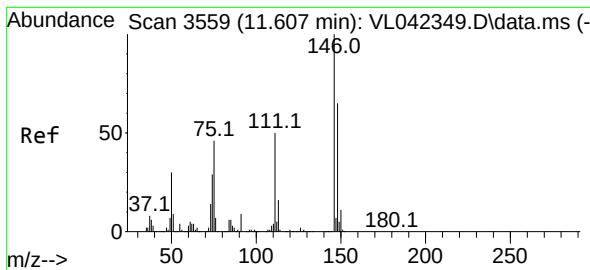
105 100

120 43.0 38.1 57.1

91 53.1 48.8 73.2

77 22.2 19.0 28.4





#75

1,3-Dichlorobenzene

Concen: 2.124 ppbv

RT: 11.607 min Scan# 3559

Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

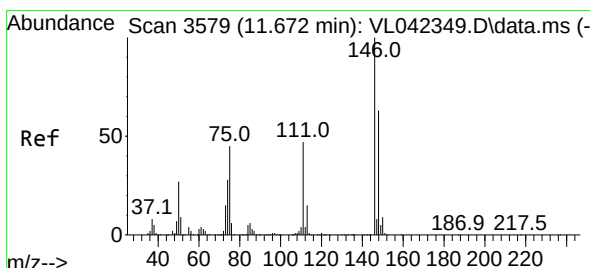
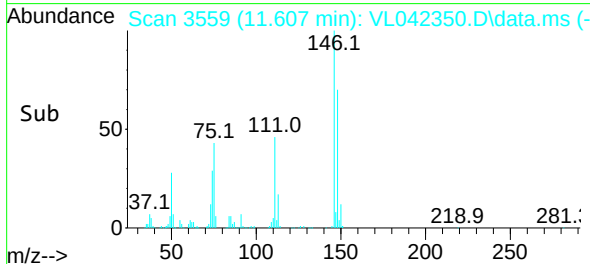
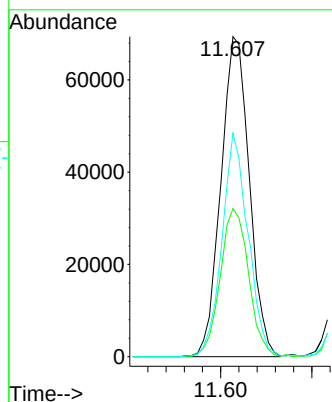
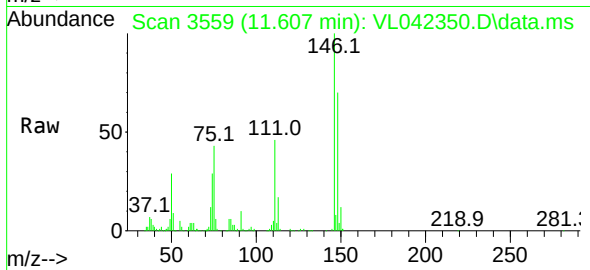
VSTDICC002

Tgt Ion:	146	Resp:	7508
Ion Ratio	Lower	Upper	
146	100		
111	46.3	24.3	72.8
148	64.3	31.6	94.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#76

1,4-Dichlorobenzene

Concen: 2.120 ppbv

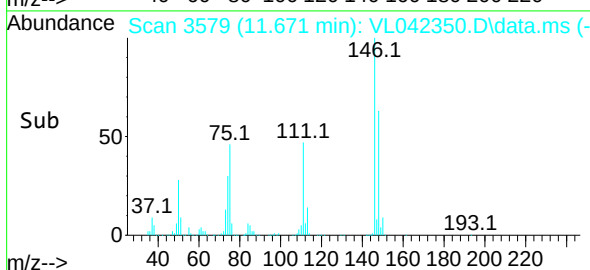
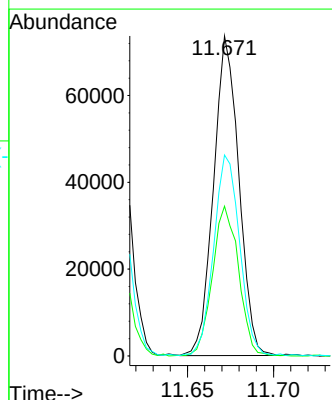
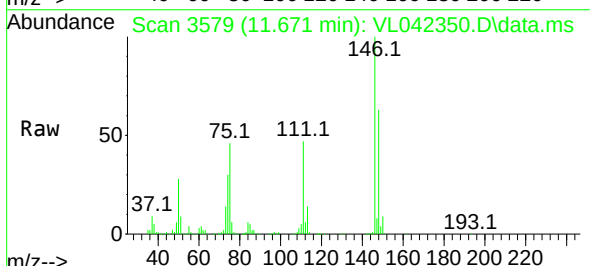
RT: 11.671 min Scan# 3579

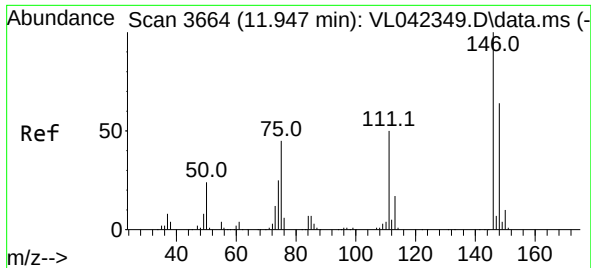
Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

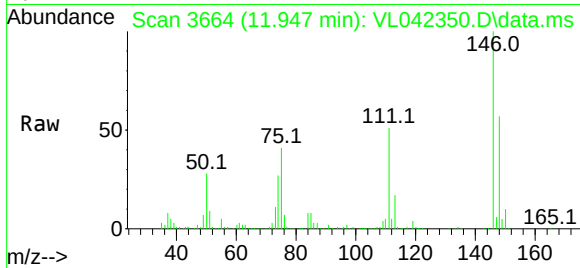
Tgt Ion:	146	Resp:	75323
Ion Ratio	Lower	Upper	
146	100		
111	48.4	24.2	72.6
148	65.1	32.1	96.5





#77
1,2-Dichlorobenzene
Concen: 2.176 ppbv
RT: 11.947 min Scan# 3664
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

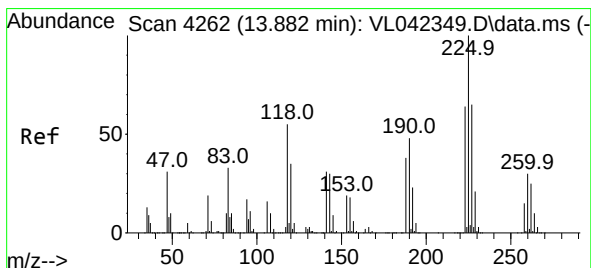
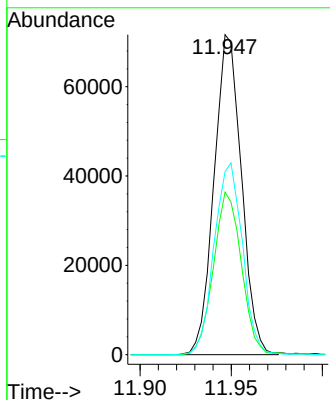
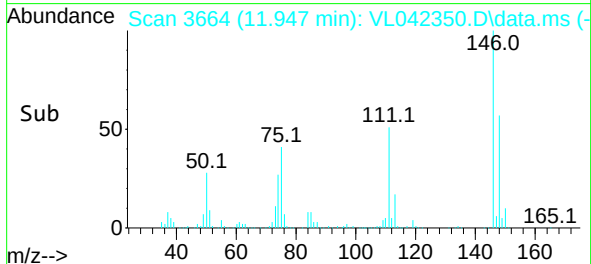
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



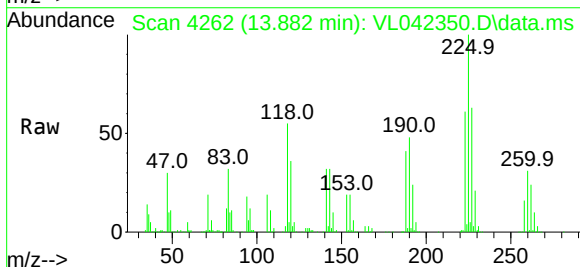
Tgt Ion:146 Resp: 74780
Ion Ratio Lower Upper
146 100
111 52.0 25.3 75.9
148 61.8 31.5 94.5

Manual Integrations
APPROVED

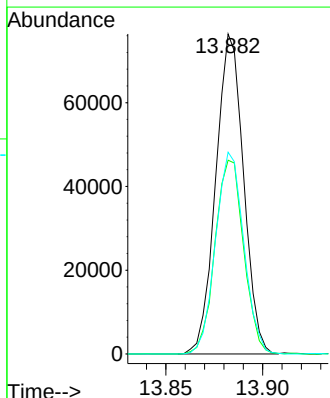
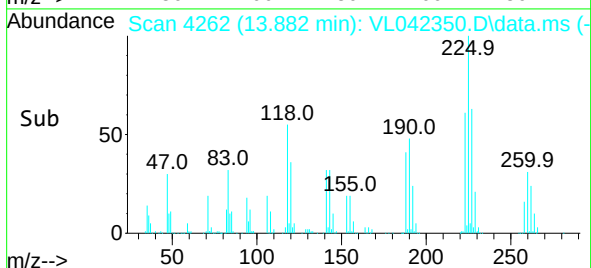
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

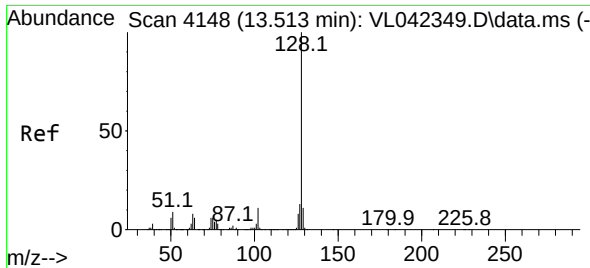


#78
Hexachloro-1,3-Butadiene
Concen: 2.194 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



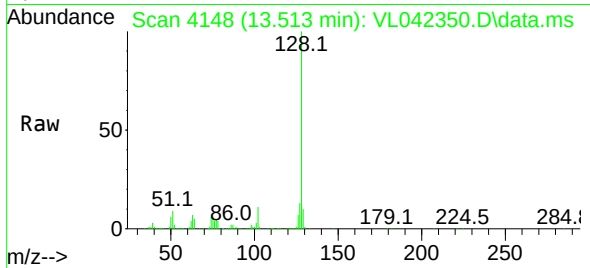
Tgt Ion:225 Resp: 76158
Ion Ratio Lower Upper
225 100
223 62.6 50.3 75.5
227 64.1 51.5 77.3





#79
Naphthalene
Concen: 2.401 ppbv
RT: 13.513 min Scan# 4148
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

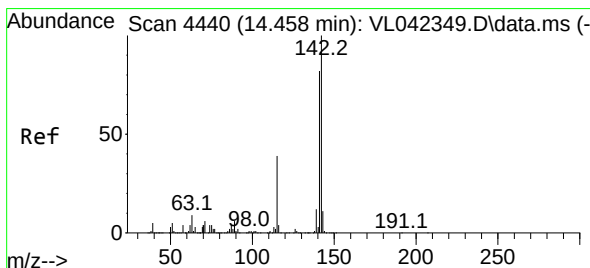
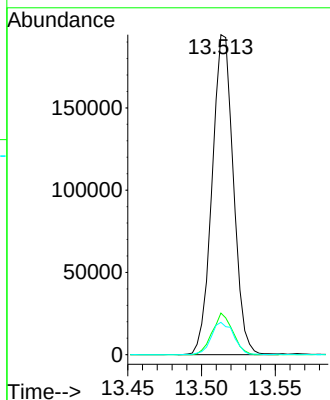
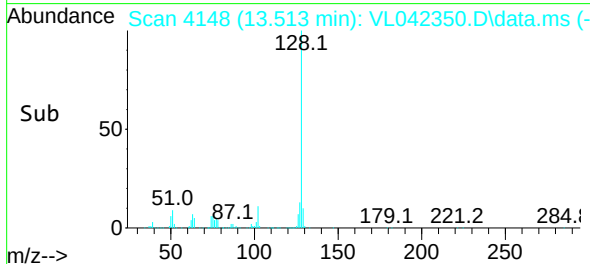
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



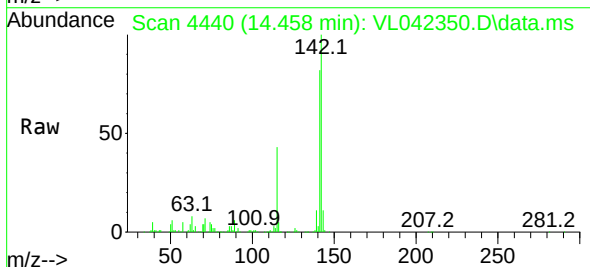
Tgt Ion:128 Resp: 195233
Ion Ratio Lower Upper
128 100
127 13.0 10.6 15.8
129 10.1 8.6 12.8

Manual Integrations
APPROVED

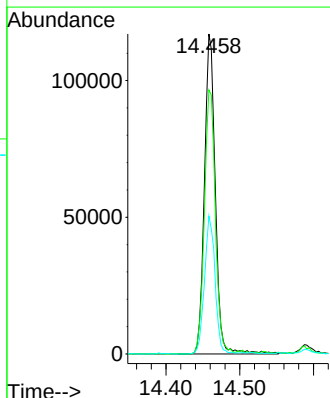
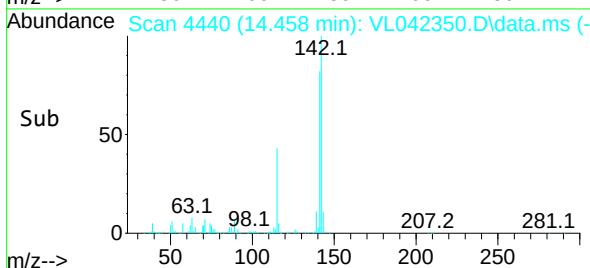
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

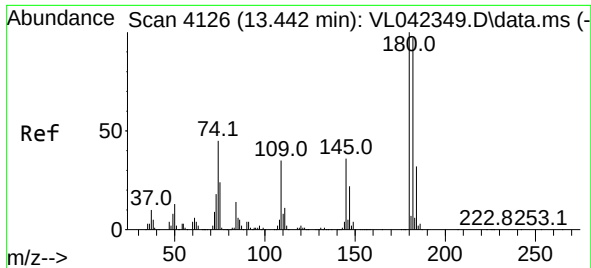


#80
Naphthalene,2-methyl-
Concen: 2.574 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



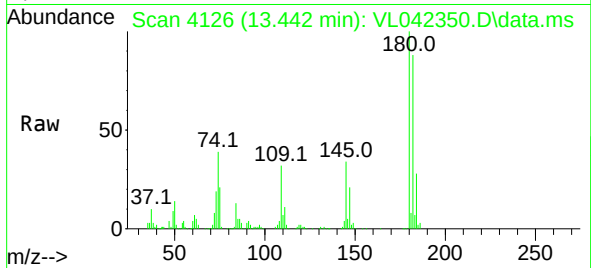
Tgt Ion:142 Resp: 119262
Ion Ratio Lower Upper
142 100
141 84.7 66.8 100.2
115 42.2 33.4 50.2





#81
 1,2,4-Trichlorobenzene
 Concen: 2.353 ppbv
 RT: 13.442 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

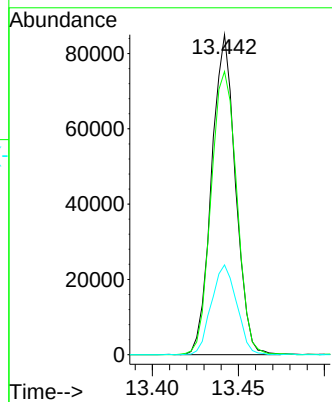
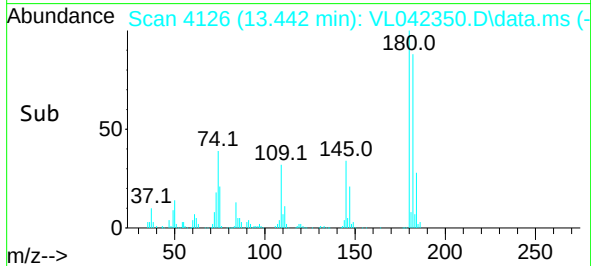
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002



Tgt Ion:180 Resp: 82150
 Ion Ratio Lower Upper
 180 100
 182 95.1 76.8 115.2
 184 29.8 24.6 36.8

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042351.D
 Acq On : 17 Apr 2025 10:48
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 04/18/2025
 Supervised By : Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 01:27:33 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

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

QLast Update : Fri Apr 18 01:24:29 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.791	49	124177	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	359907	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	329090	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 269087 9.950 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 99.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	22816	1.040	ppbv	93
3) Chlorodifluoromethane	1.476	51	20573	0.985	ppbv	97
4) Chloromethane	1.535	50	9008	1.038	ppbv	99
5) Vinyl Chloride	1.580	62	8807	0.932	ppbv	98
6) Bromomethane	1.671	94	4099	1.001	ppbv	91
7) Chloroethane	1.706	64	3559	1.041	ppbv	90
8) Dichlorotetrafluoroethane	1.554	85	19251	1.022	ppbv	100
9) Propene	1.486	41	9892	1.040	ppbv	92
10) Heptane	4.982	43	28507m	1.114	ppbv	
11) Trichlorofluoromethane	1.878	101	22428	1.075	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.140	101	17865	1.047	ppbv	98
13) Ethanol	1.722	45	1730m	2.225	ppbv	
14) Bromoethene	1.784	108	6766	1.052	ppbv #	89
15) Acetone	1.839	43	23537	1.158	ppbv	97
16) 1,3-Butadiene	1.609	39	10377m	1.087	ppbv	
17) tert-Butyl alcohol	2.043	59	26477	1.051	ppbv #	90
18) 1,1-Dichloroethene	2.036	96	7890	0.962	ppbv	94
19) Isopropyl Alcohol	1.888	45	12175	1.078	ppbv #	39
20) Methylene Chloride	2.062	84	9046	1.136	ppbv	87
21) Allyl Chloride	2.098	41	15057	1.073	ppbv	91
22) trans-1,2-Dichloroethene	2.344	96	9421	1.038	ppbv	96
23) Vinyl Acetate	2.467	43	9234	1.122	ppbv #	90
24) 1,1-Dichloroethane	2.409	63	18236	1.058	ppbv	99
25) Ethyl Acetate	2.842	43	51494	1.027	ppbv #	97
26) Hexane	2.826	57	21350	1.053	ppbv	95
27) Carbon Disulfide	2.153	76	20739	0.955	ppbv #	1
28) Methyl tert-Butyl Ether	2.444	73	14164	1.066	ppbv #	85
29) Chloroform	2.852	83	28973	1.011	ppbv	100
30) Cyclohexane	3.862	84	16547m	1.013	ppbv	
31) cis-1,2-Dichloroethene	2.723	61	19904	1.032	ppbv	97
32) 1,1,1-Trichloroethane	3.376	97	31653	1.030	ppbv	98
34) 2-Butanone	2.564	43	29735	1.045	ppbv	99
35) Carbon Tetrachloride	3.768	117	29875	0.917	ppbv	94
36) Benzene	3.661	78	38707	0.997	ppbv	95
37) 1,2-Dichloroethane	3.224	62	23284	0.999	ppbv	97
38) Trichloroethene	4.551	130	16119	0.947	ppbv	96
39) 1,2-Dichloropropane	4.318	63	14866	1.027	ppbv	96
40) 1,4-Dioxane	4.597	88	8737m	1.114	ppbv	
41) Tetrahydrofuran	3.062	42	17259	1.049	ppbv	96
42) Bromodichloromethane	4.490	83	32721	1.009	ppbv #	98
43) Methyl Methacrylate	4.885	69	18699m	1.073	ppbv	
44) 2,2,4-Trimethylpentane	4.642	57	68946m	1.027	ppbv	
45) t-1,3-Dichloropropene	6.416	75	18347m	1.026	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042351.D
 Acq On : 17 Apr 2025 10:48
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 01:27:33 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

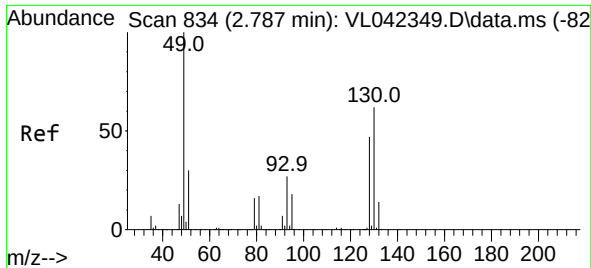
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Fri Apr 18 01:24:29 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.603	75	22189m	1.015	ppbv	
47) 1,1,2-Trichloroethane	6.587	97	15457m	1.048	ppbv	
48) Dibromochloromethane	7.390	129	25948	0.997	ppbv	100
49) Bromoform	9.484	173	22413	0.984	ppbv	98
50) 4-Methyl-2-Pentanone	5.765	43	49725	1.049	ppbv	97
51) 2-Hexanone	7.445	43	47178	1.103	ppbv	99
52) Tetrachloroethene	8.228	164	14154	0.943	ppbv	93
53) Toluene	6.940	91	46611	1.001	ppbv	100
54) 1,2-Dibromoethane	7.658	107	21780	1.036	ppbv	93
56) 1,1,1,2-Tetrachloroethane	8.927	131	21052	1.057	ppbv	95
57) Chlorobenzene	8.921	112	35113	1.026	ppbv #	95
58) Ethyl Benzene	9.354	91	68703	1.054	ppbv	96
59) m/p-Xylene	9.552	91	110702m	2.101	ppbv	
60) o-Xylene	9.966	91	55831	1.056	ppbv	99
61) Styrene	9.872	104	25544	1.012	ppbv	100
62) Isopropylbenzene	10.542	105	81286	1.047	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.966	83	32410	0.943	ppbv	99
64) n-propylbenzene	10.989	120	19898	1.019	ppbv	90
65) tert-Butylbenzene	11.533	119	77598	1.087	ppbv	92
66) Benzyl Chloride	11.617	91	7864	1.003	ppbv #	91
67) sec-Butylbenzene	11.769	105	105919	1.067	ppbv	97
69) p-Isopropyltoluene	11.928	119	92733	1.075	ppbv	97
70) n-Butylbenzene	12.284	91	96306	1.072	ppbv	99
71) 2-Chlorotoluene	10.905	91	63321	1.040	ppbv	99
72) 4-Ethyltoluene	11.128	105	69698	1.078	ppbv	99
73) 1,3,5-Trimethylbenzene	11.206	105	60927	1.067	ppbv	99
74) 1,2,4-Trimethylbenzene	11.539	105	73888	1.108	ppbv	95
75) 1,3-Dichlorobenzene	11.610	146	36877	1.064	ppbv	98
76) 1,4-Dichlorobenzene	11.675	146	36692	1.053	ppbv	98
77) 1,2-Dichlorobenzene	11.950	146	35977	1.068	ppbv	97
78) Hexachloro-1,3-Butadiene	13.886	225	37377	1.098	ppbv	99
79) Naphthalene	13.517	128	90710	1.138	ppbv	99
80) Naphthalene,2-methyl-	14.462	142	50487	1.111	ppbv	98
81) 1,2,4-Trichlorobenzene	13.442	180	36764	1.074	ppbv	99

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



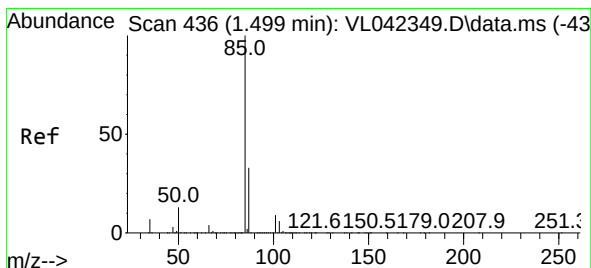
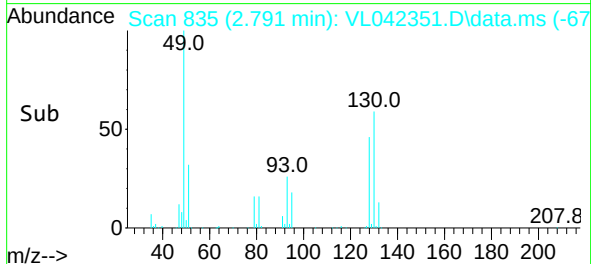
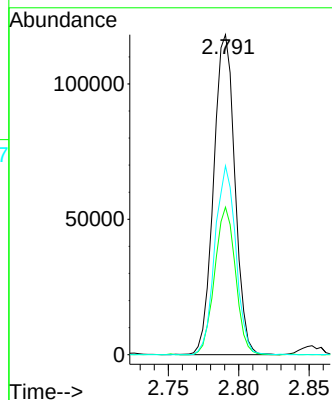
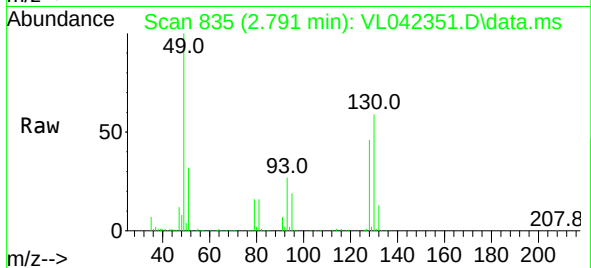
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.791 min Scan# 81
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 49 Resp: 12417
Ion Ratio Lower Upper
49 100
128 45.2 22.8 68.4
130 58.1 29.3 88.0

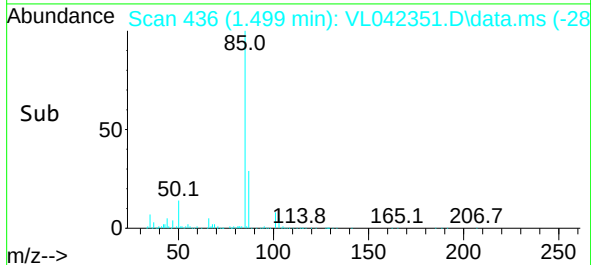
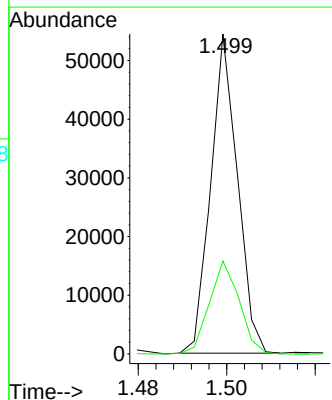
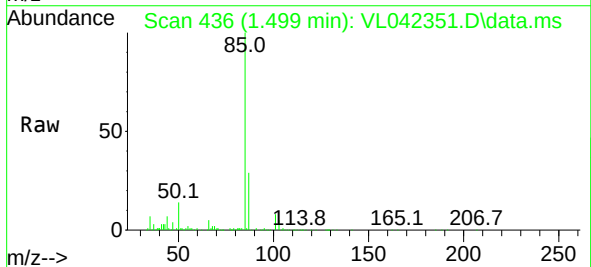
Manual Integrations
APPROVED

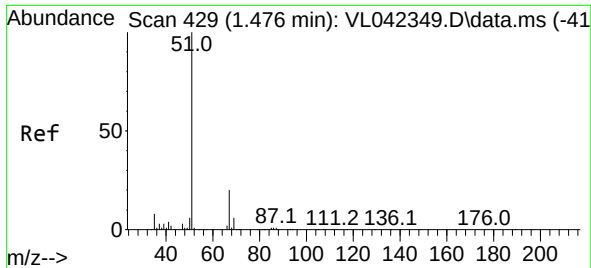
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#2
Dichlorodifluoromethane
Concen: 1.040 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

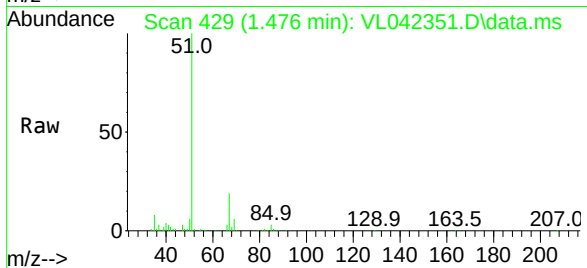
Tgt Ion: 85 Resp: 22816
Ion Ratio Lower Upper
85 100
87 29.1 26.6 39.8





#3
Chlorodifluoromethane
Concen: 0.985 ppbv
RT: 1.476 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

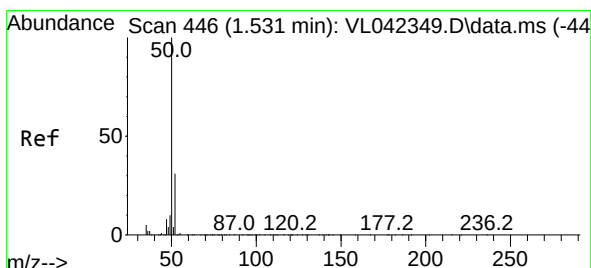
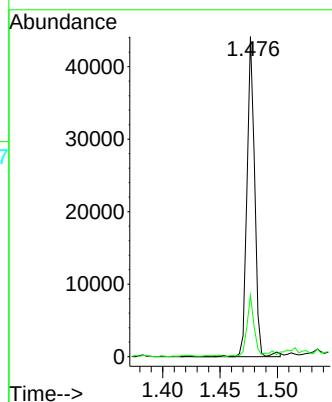
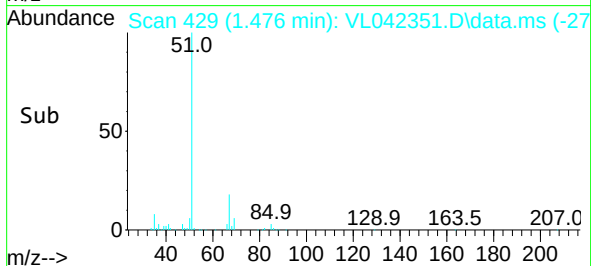
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



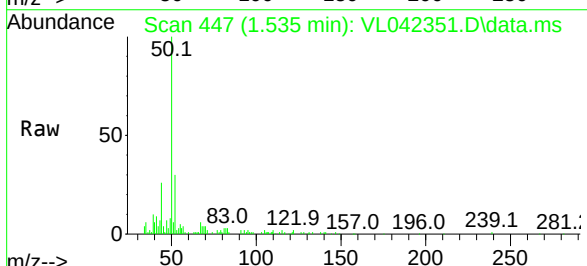
Tgt Ion: 51 Resp: 2057
Ion Ratio Lower Upper
51 100
67 19.1 16.2 24.4

Manual Integrations
APPROVED

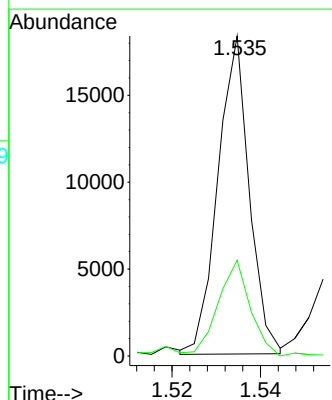
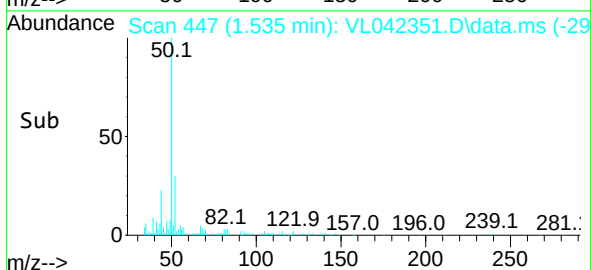
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

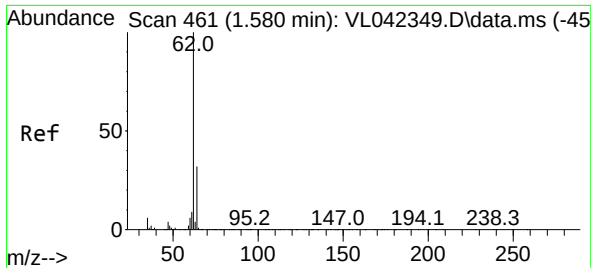


#4
Chloromethane
Concen: 1.038 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48



Tgt Ion: 50 Resp: 9008
Ion Ratio Lower Upper
50 100
52 30.4 24.7 37.1





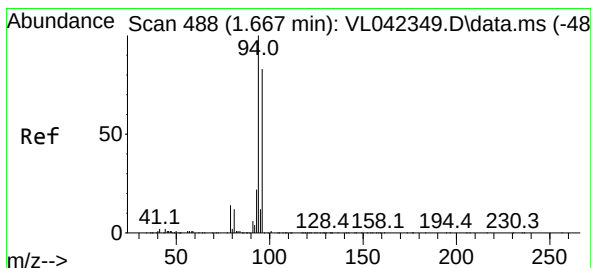
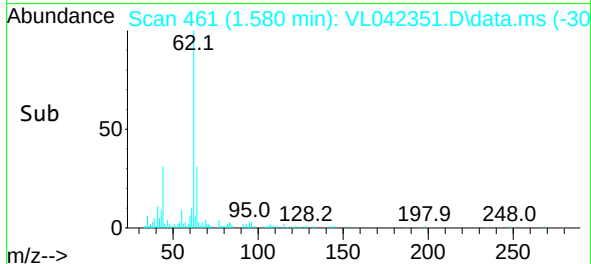
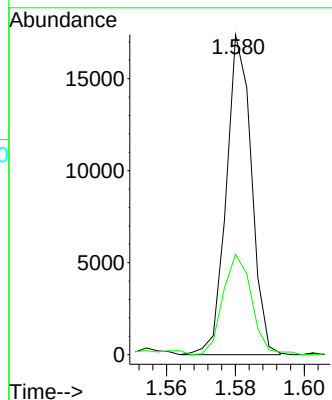
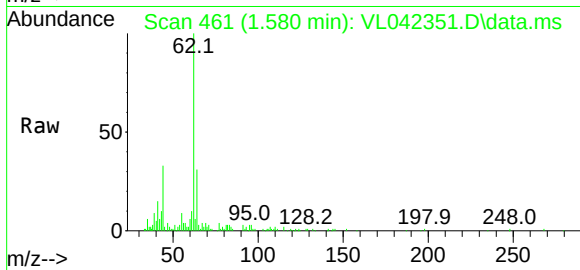
#5
 Vinyl Chloride
 Concen: 0.932 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.000 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tgt Ion: 62 Resp: 880
 Ion Ratio Lower Upper
 62 100
 64 30.5 25.4 38.0

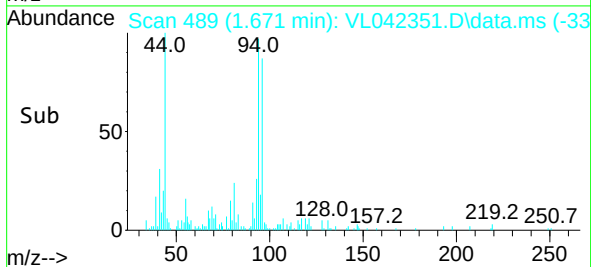
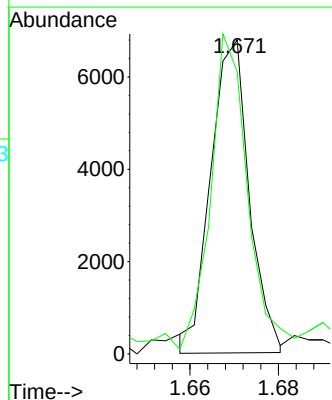
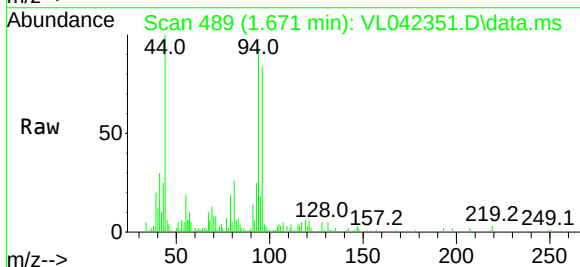
Manual Integrations
 APPROVED

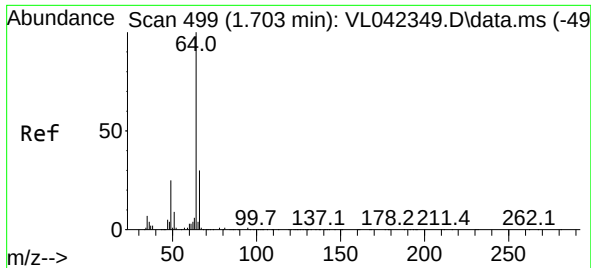
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#6
 Bromomethane
 Concen: 1.001 ppbv
 RT: 1.671 min Scan# 489
 Delta R.T. 0.004 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

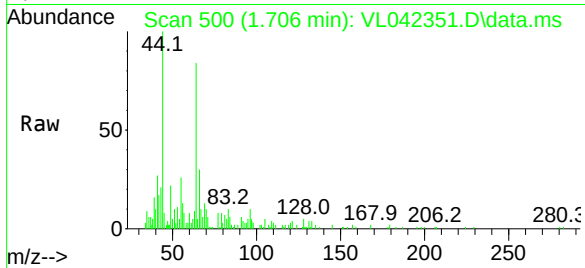
Tgt Ion: 94 Resp: 4099
 Ion Ratio Lower Upper
 94 100
 96 91.0 66.2 99.2





#7
Chloroethane
Concen: 1.041 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

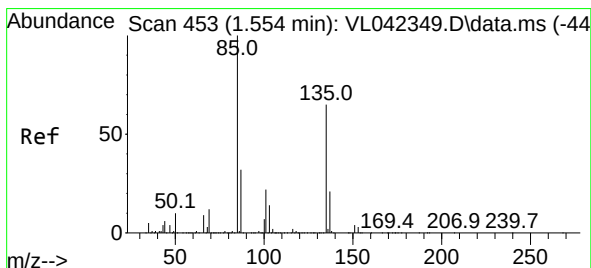
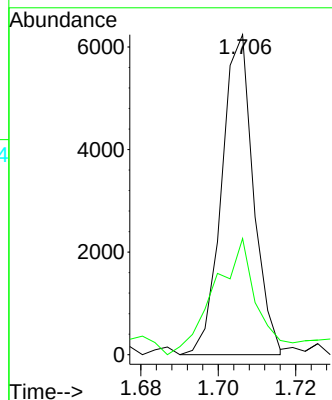
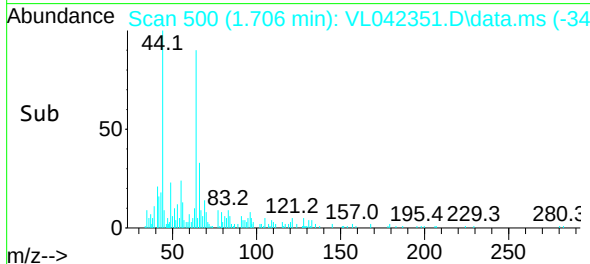
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



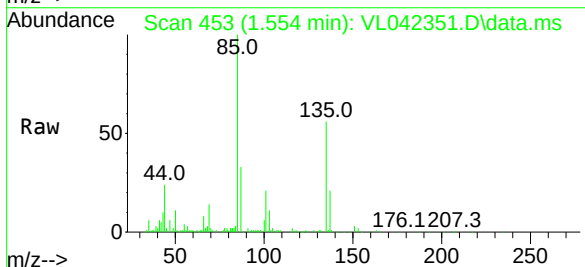
Tgt Ion: 64 Resp: 3559
Ion Ratio Lower Upper
64 100
66 36.3 24.6 37.0

Manual Integrations
APPROVED

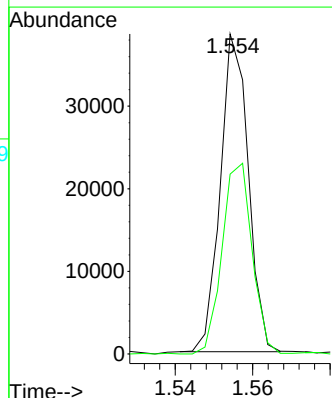
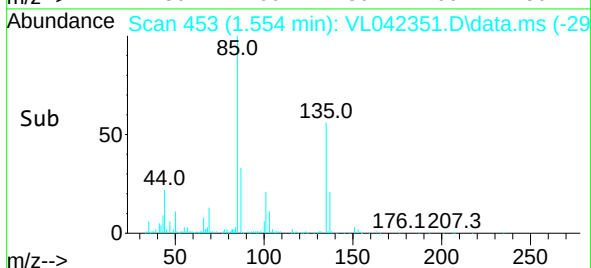
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

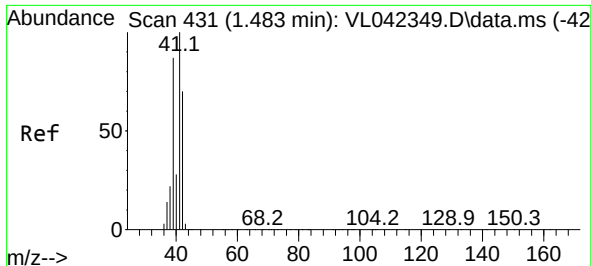


#8
Dichlorotetrafluoroethane
Concen: 1.022 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48



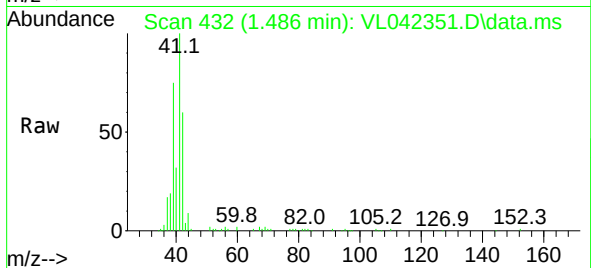
Tgt Ion: 85 Resp: 19251
Ion Ratio Lower Upper
85 100
135 65.2 52.2 78.2





#9
Propene
Concen: 1.040 ppbv
RT: 1.486 min Scan# 41
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

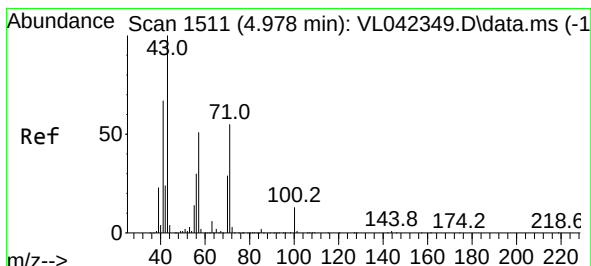
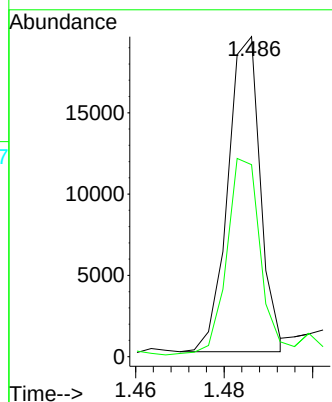
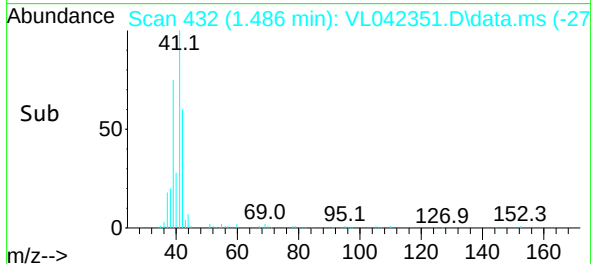
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



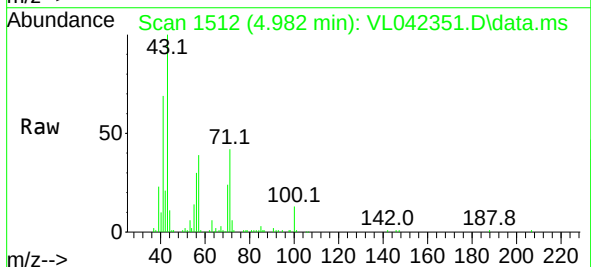
Tgt Ion: 41 Resp: 989
Ion Ratio Lower Upper
41 100
42 77.2 56.2 84.4

Manual Integrations
APPROVED

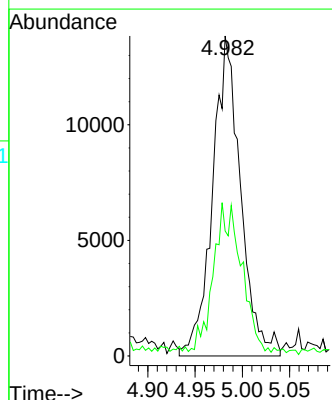
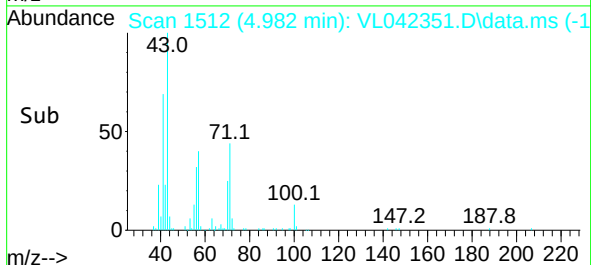
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

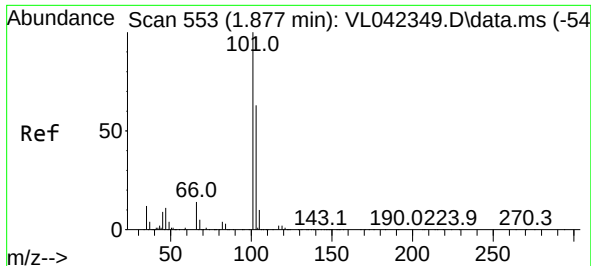


#10
Heptane
Concen: 1.114 ppbv m
RT: 4.982 min Scan# 1512
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48



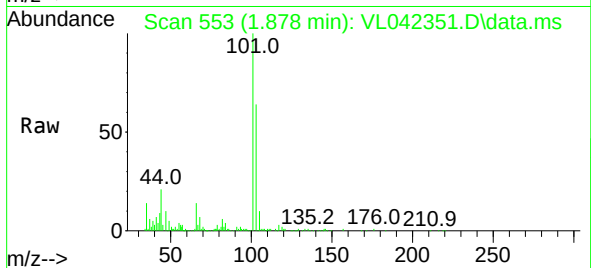
Tgt Ion: 43 Resp: 28507
Ion Ratio Lower Upper
43 100
57 48.1 39.9 59.9





#11
Trichlorofluoromethane
Concen: 1.075 ppbv
RT: 1.878 min Scan# 51
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

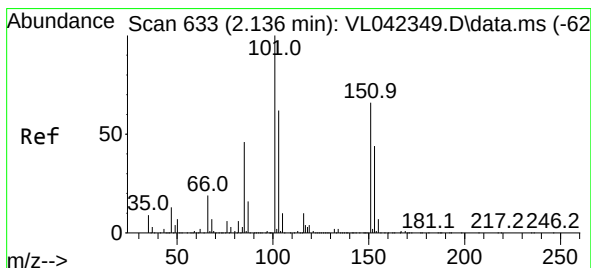
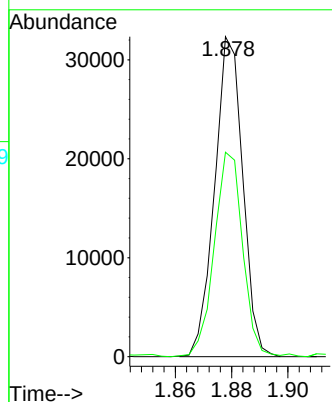
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



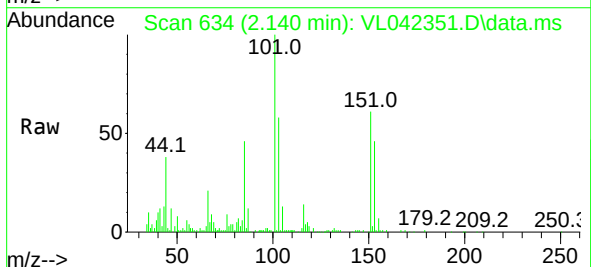
Tgt Ion:101 Resp: 22428
Ion Ratio Lower Upper
101 100
103 63.6 50.1 75.1

Manual Integrations
APPROVED

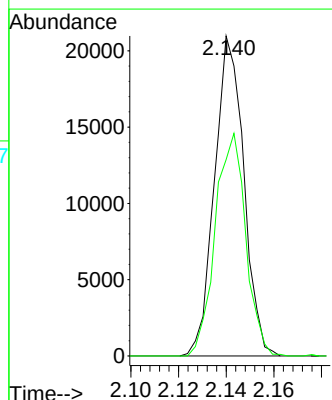
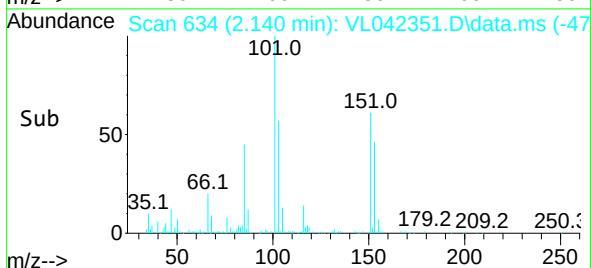
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

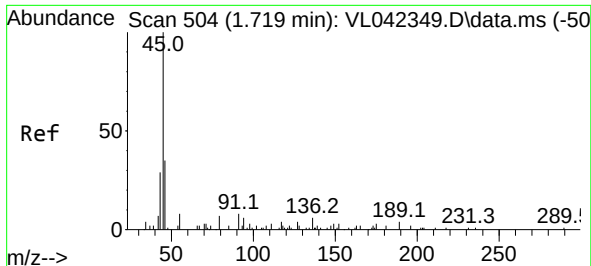


#12
1,1,2-Trichlorotrifluoroethane
Concen: 1.047 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48



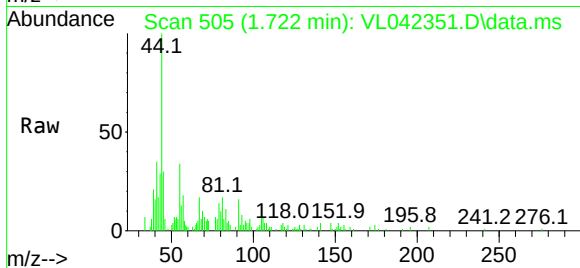
Tgt Ion:101 Resp: 17865
Ion Ratio Lower Upper
101 100
151 72.6 57.0 85.6





#13
Ethanol
Concen: 2.225 ppbv m
RT: 1.722 min Scan# 504
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

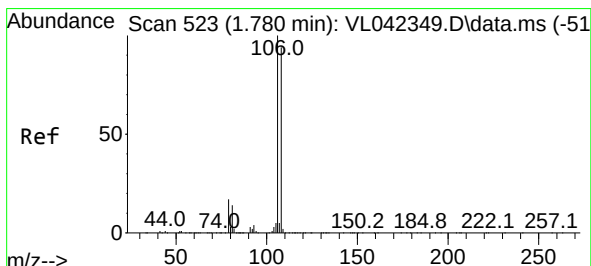
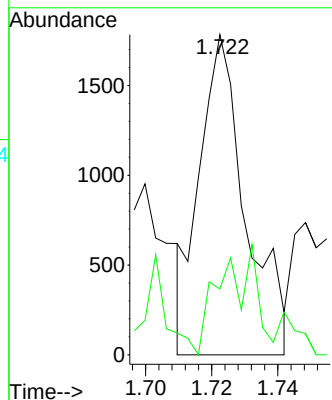
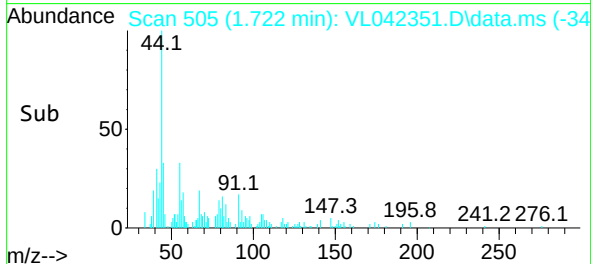
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



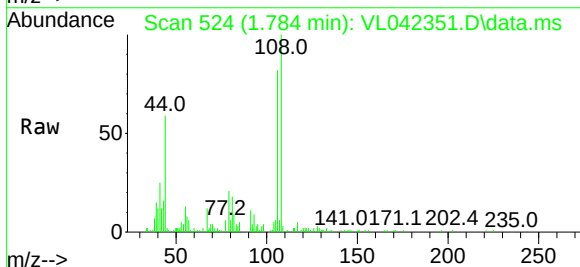
Tgt Ion: 45 Resp: 1730
Ion Ratio Lower Upper
45 100
46 44.9 21.9 87.7

Manual Integrations
APPROVED

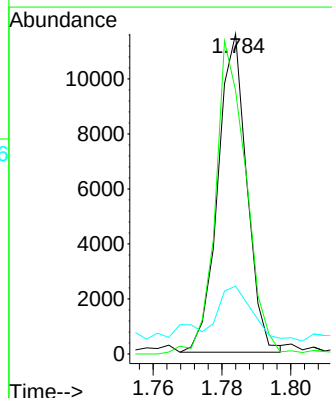
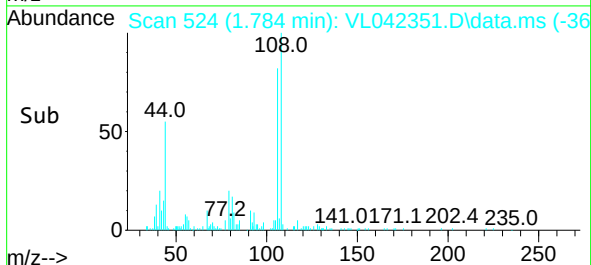
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

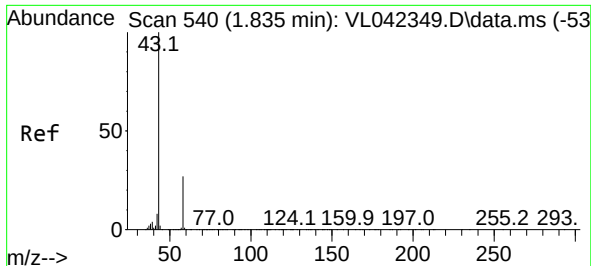


#14
Bromoethene
Concen: 1.052 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48



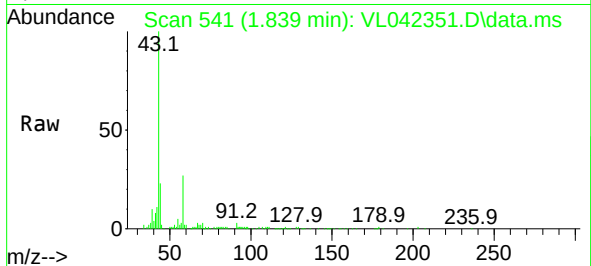
Tgt Ion:108 Resp: 6766
Ion Ratio Lower Upper
108 100
106 104.7 85.9 128.9
79 45.4 13.9 20.9





#15
Acetone
Concen: 1.158 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

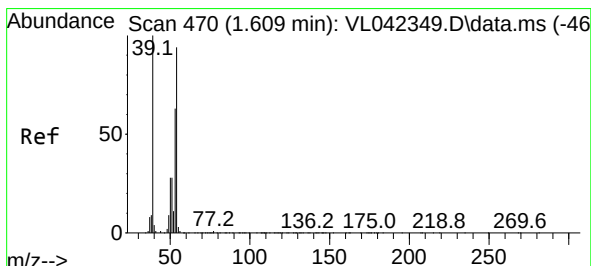
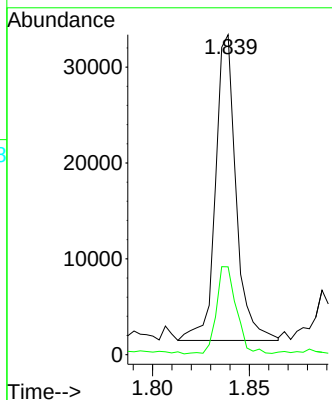
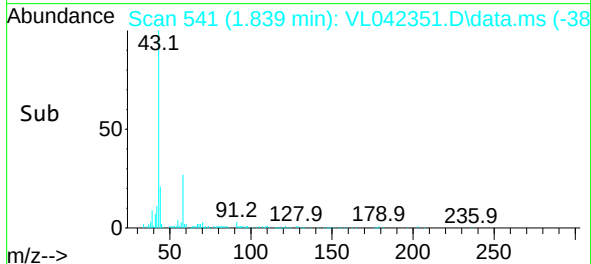
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



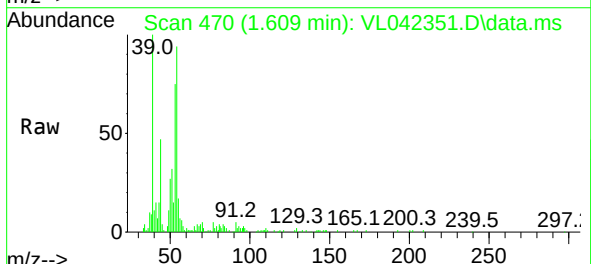
Tgt Ion: 43 Resp: 2353
Ion Ratio Lower Upper
43 100
58 29.4 22.4 33.6

Manual Integrations
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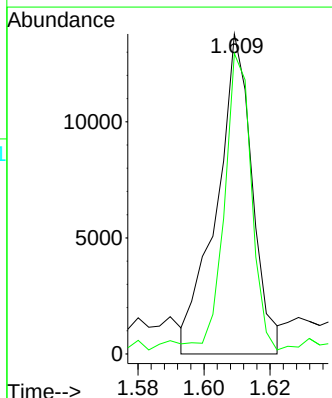
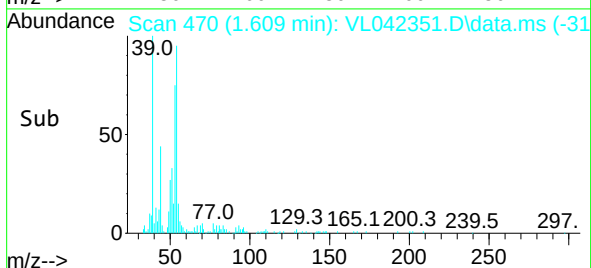
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

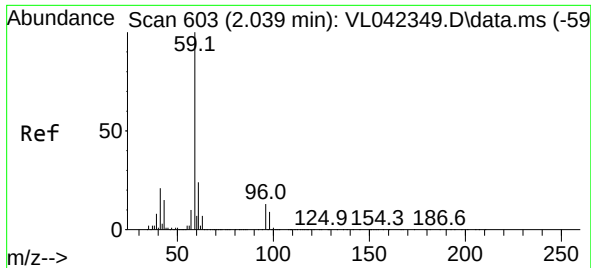


#16
1,3-Butadiene
Concen: 1.087 ppbv m
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48



Tgt Ion: 39 Resp: 10377
Ion Ratio Lower Upper
39 100
54 71.0 64.9 97.3





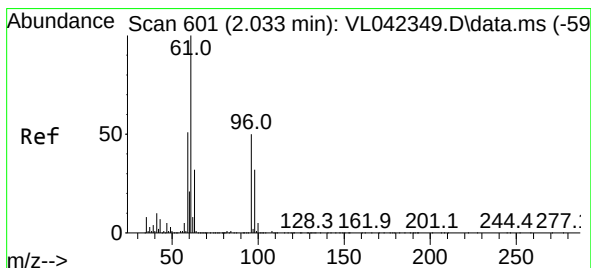
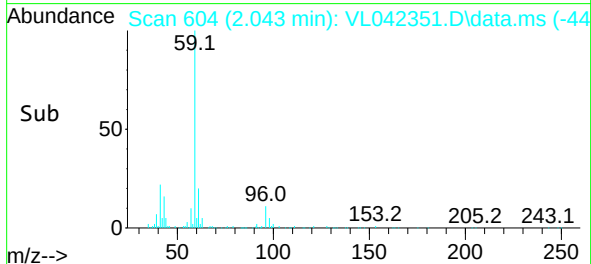
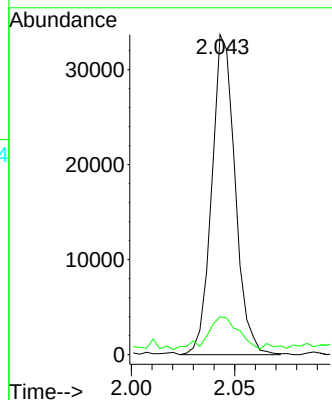
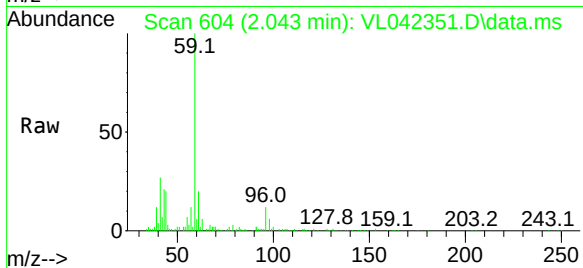
#17
tert-Butyl alcohol
Concen: 1.051 ppbv
RT: 2.043 min Scan# 603
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 59 Resp: 2647
Ion Ratio Lower Upper
59 100
57 14.6 8.7 13.1

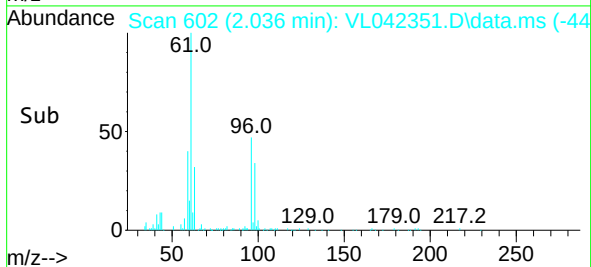
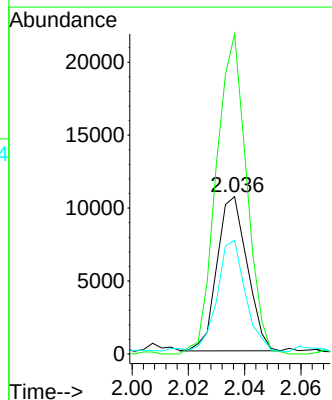
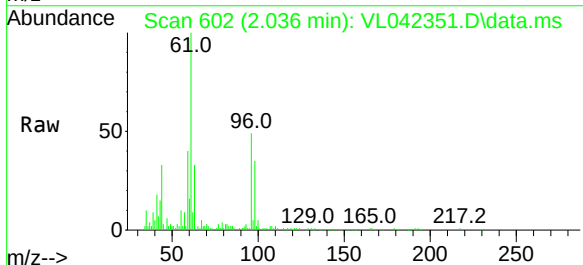
Manual Integrations
APPROVED

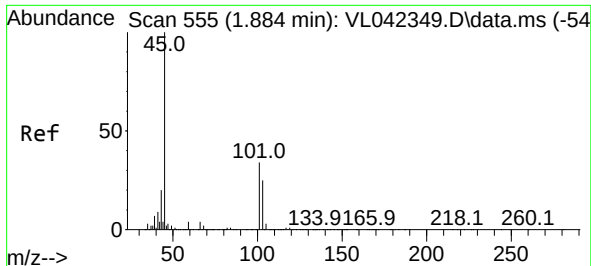
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#18
1,1-Dichloroethene
Concen: 0.962 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

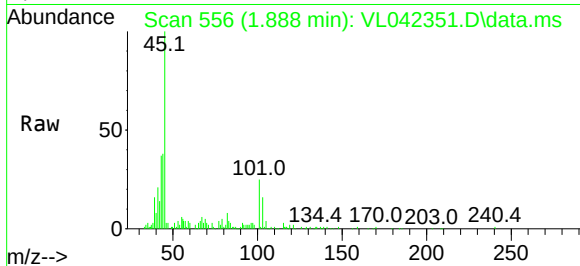
Tgt Ion: 96 Resp: 7890
Ion Ratio Lower Upper
96 100
61 207.8 160.2 240.2
98 71.9 51.0 76.4





#19
Isopropyl Alcohol
Concen: 1.078 ppbv
RT: 1.888 min Scan# 511
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

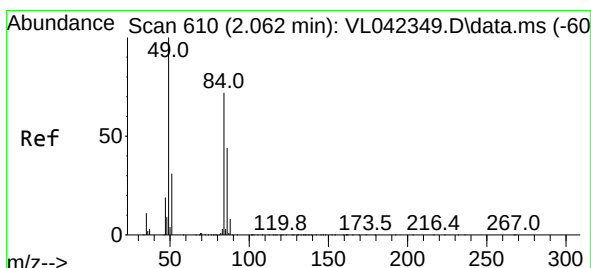
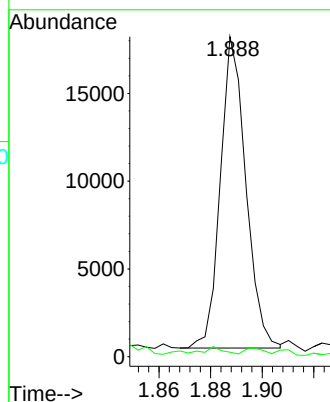
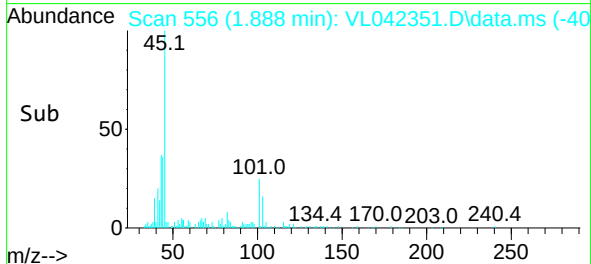
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



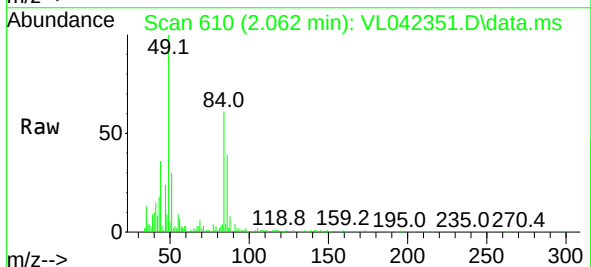
Tgt Ion: 45 Resp: 12179
Ion Ratio Lower Upper
45 100
58 3.8 34.5 51.7

Manual Integrations
APPROVED

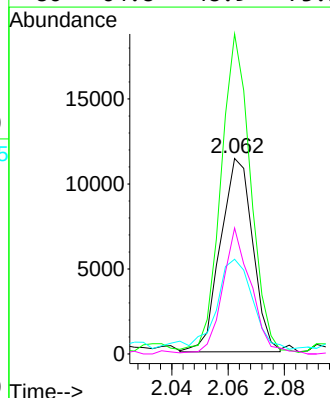
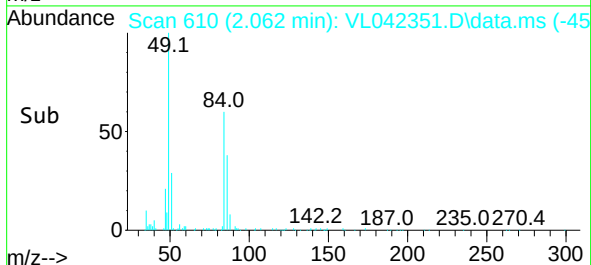
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

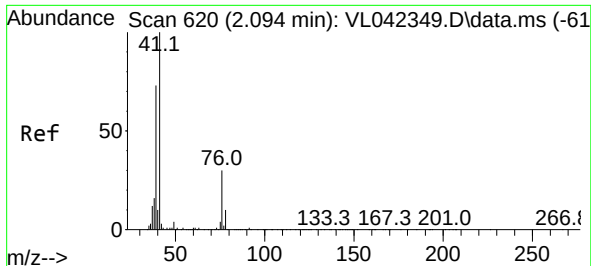


#20
Methylene Chloride
Concen: 1.136 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48



Tgt Ion: 84 Resp: 9046
Ion Ratio Lower Upper
84 100
49 164.4 111.6 167.4
51 44.4 35.1 52.7
86 64.8 48.9 73.3





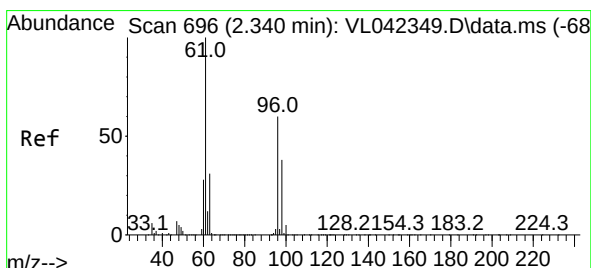
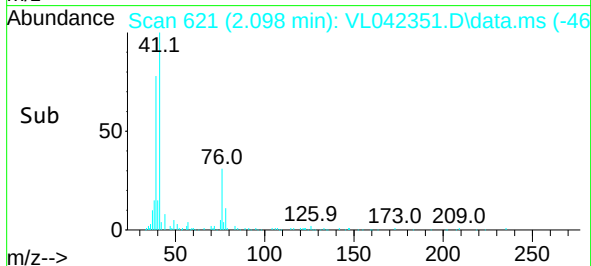
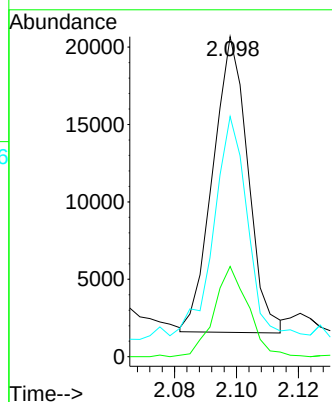
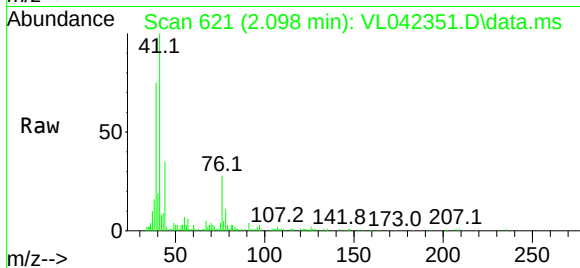
#21
 Allyl Chloride
 Concen: 1.073 ppbv
 RT: 2.098 min Scan# 61
 Delta R.T. 0.004 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tgt Ion: 41 Resp: 1505
 Ion Ratio Lower Upper
 41 100
 76 29.8 24.8 37.2
 39 86.1 60.6 90.8

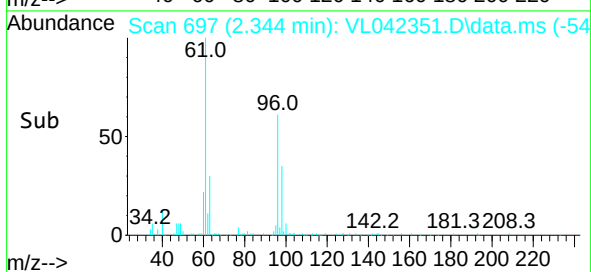
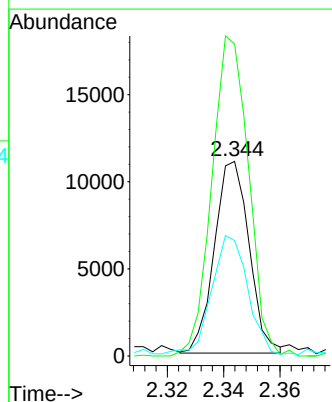
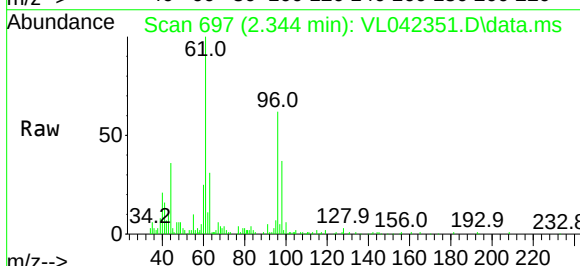
Manual Integrations
 APPROVED

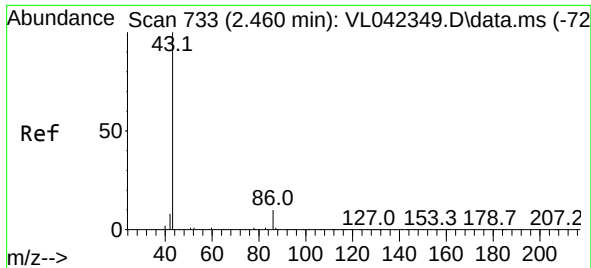
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#22
 trans-1,2-Dichloroethene
 Concen: 1.038 ppbv
 RT: 2.344 min Scan# 697
 Delta R.T. 0.004 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

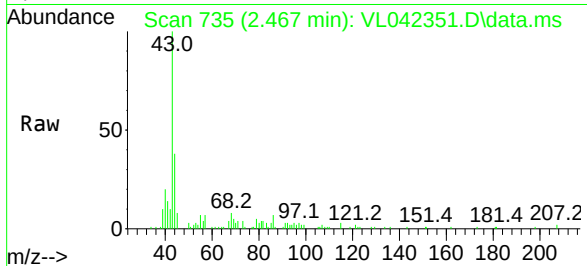
Tgt Ion: 96 Resp: 9421
 Ion Ratio Lower Upper
 96 100
 61 161.7 133.7 200.5
 98 59.8 50.3 75.5





#23
 Vinyl Acetate
 Concen: 1.122 ppbv
 RT: 2.467 min Scan# 717
 Delta R.T. 0.007 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

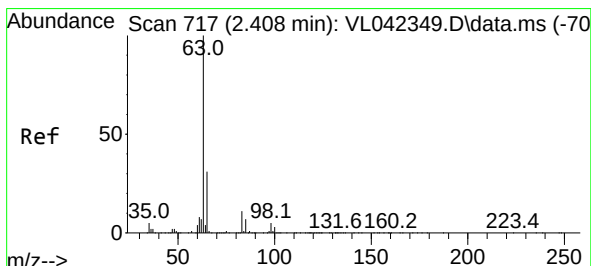
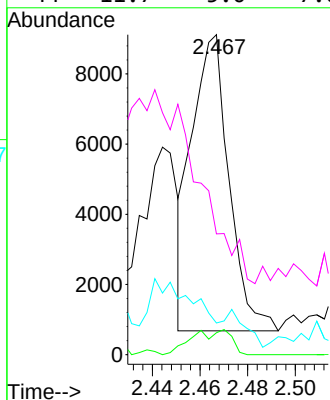
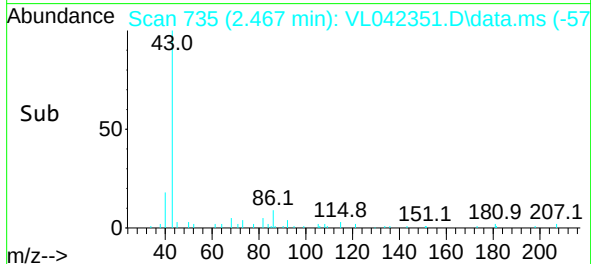
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001



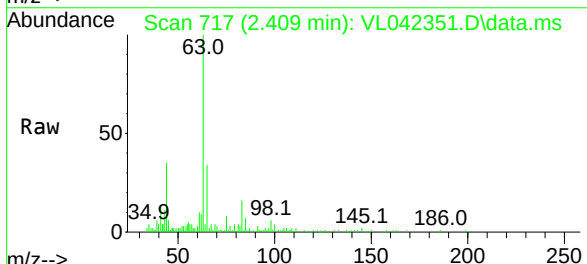
Tgt Ion: 43 Resp: 9234
 Ion Ratio Lower Upper
 43 100
 86 7.4 6.5 9.7
 42 4.6 7.8 11.8
 44 11.7 5.0 7.6#

Manual Integrations
 APPROVED

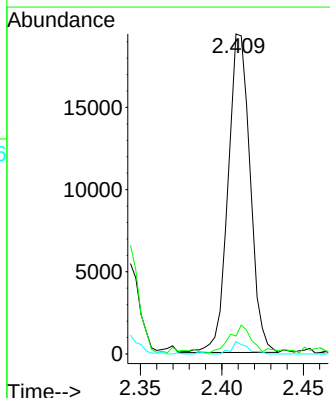
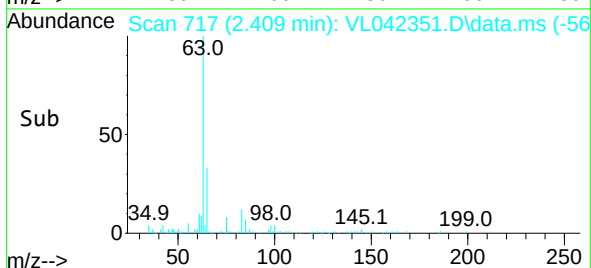
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

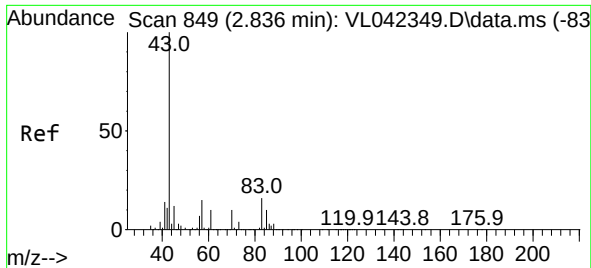


#24
 1,1-Dichloroethane
 Concen: 1.058 ppbv
 RT: 2.409 min Scan# 717
 Delta R.T. 0.000 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48



Tgt Ion: 63 Resp: 18236
 Ion Ratio Lower Upper
 63 100
 98 4.7 2.3 6.8
 100 3.9 1.6 4.8





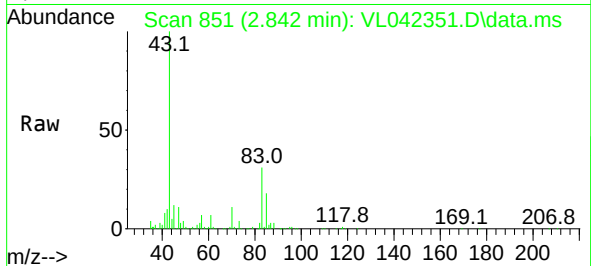
#25
Ethyl Acetate
Concen: 1.027 ppbv
RT: 2.842 min Scan# 849
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC001

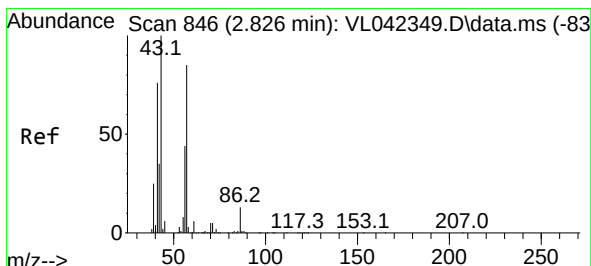
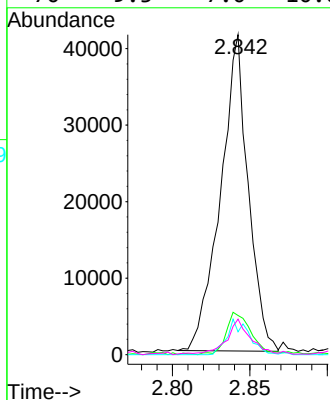
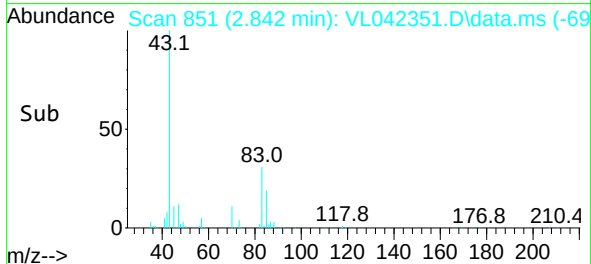


Tgt Ion: 43 Resp: 51494
Ion Ratio Lower Upper
43 100
45 13.1 8.3 12.5
61 9.0 7.3 10.9
70 9.3 7.0 10.6

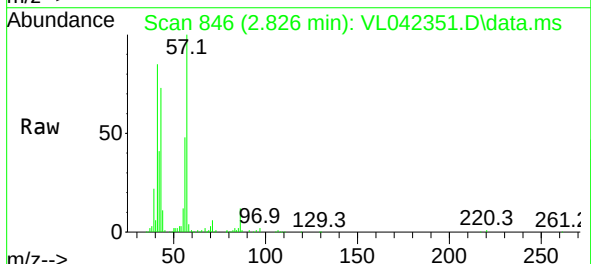
Manual Integrations

APPROVED

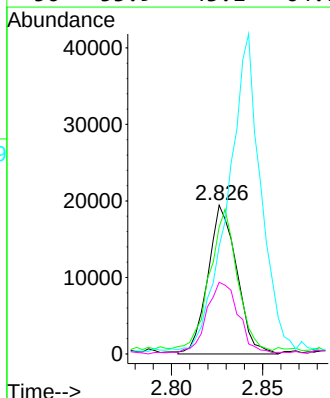
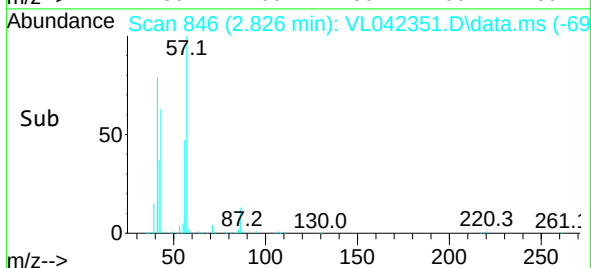
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

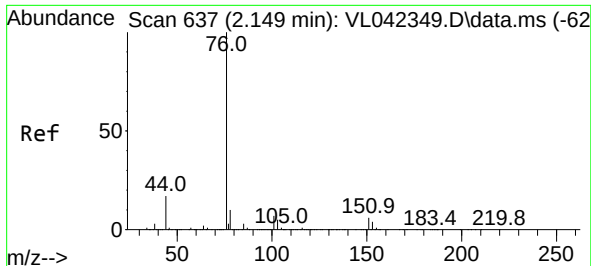


#26
Hexane
Concen: 1.053 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48



Tgt Ion: 57 Resp: 21350
Ion Ratio Lower Upper
57 100
41 95.3 77.9 116.9
43 247.5 208.4 312.6
56 53.9 43.1 64.7





#27

Carbon Disulfide

Concen: 0.955 ppbv

RT: 2.153 min Scan# 61

Delta R.T. 0.004 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA_L

ClientSampleId :

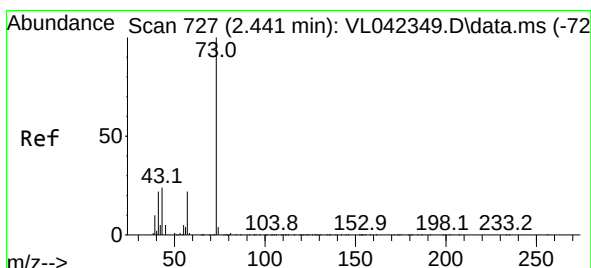
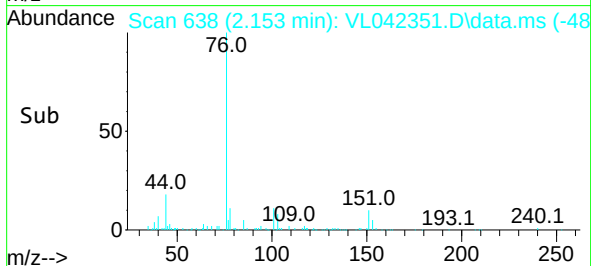
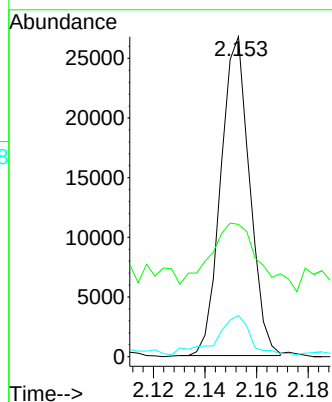
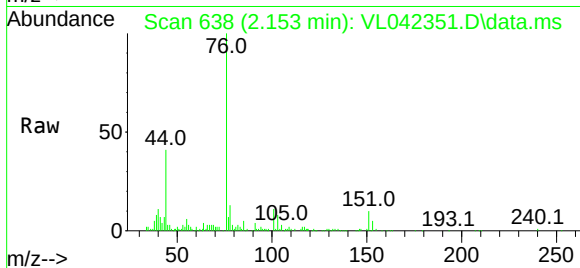
VSTDICC001

Tgt Ion: 76 Resp: 20739
 Ion Ratio Lower Upper
 76 100
 44 93.1 15.5 23.3
 78 19.8 9.3 13.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#28

Methyl tert-Butyl Ether

Concen: 1.066 ppbv

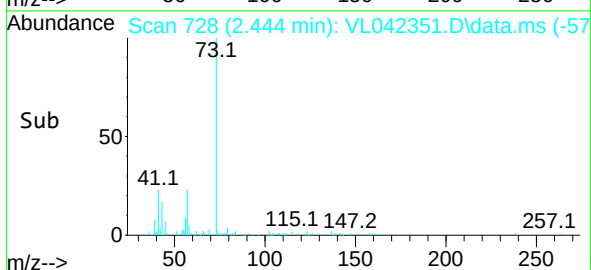
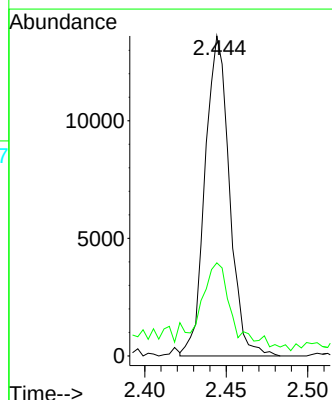
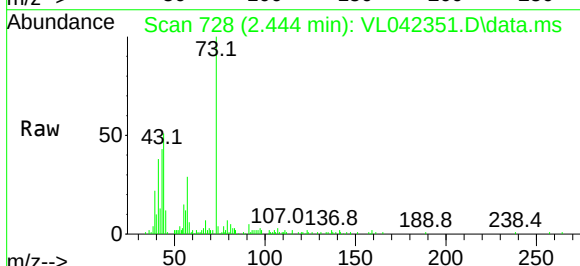
RT: 2.444 min Scan# 728

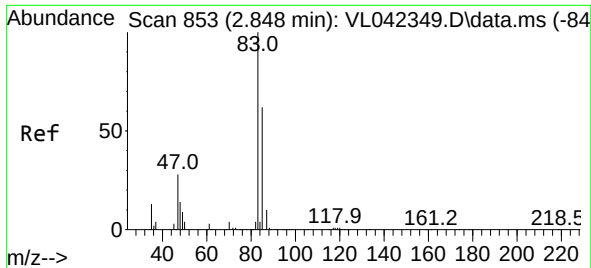
Delta R.T. 0.004 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

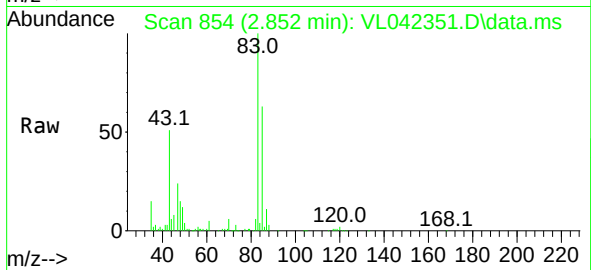
Tgt Ion: 73 Resp: 14164
 Ion Ratio Lower Upper
 73 100
 57 34.2 21.3 31.9





#29
Chloroform
Concen: 1.011 ppbv
RT: 2.852 min Scan# 854
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

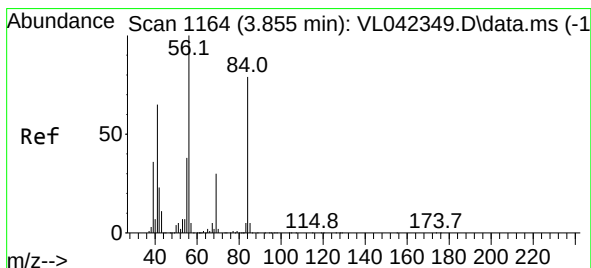
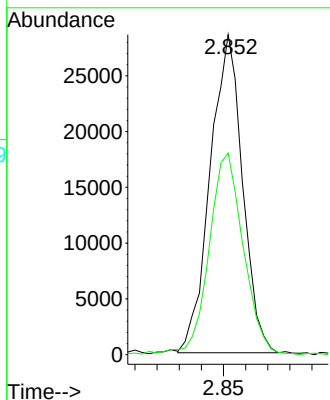
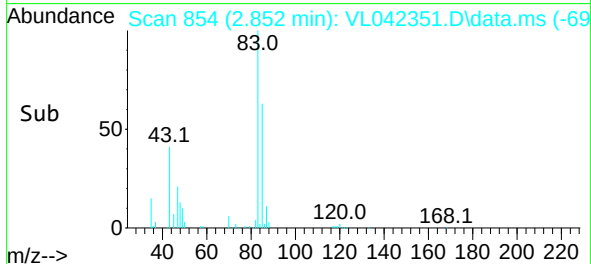
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



Tgt Ion: 83 Resp: 2897
Ion Ratio Lower Upper
83 100
85 62.6 50.0 75.0

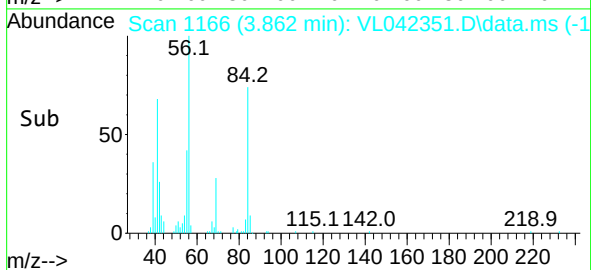
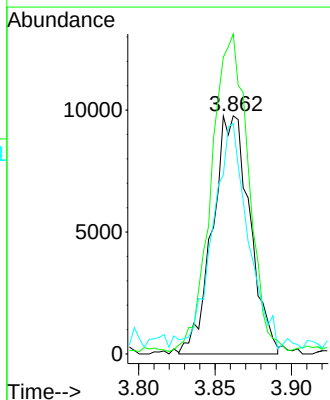
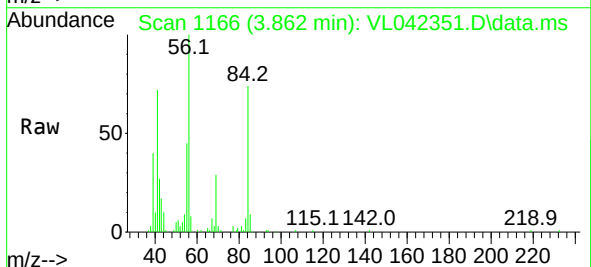
Manual Integrations
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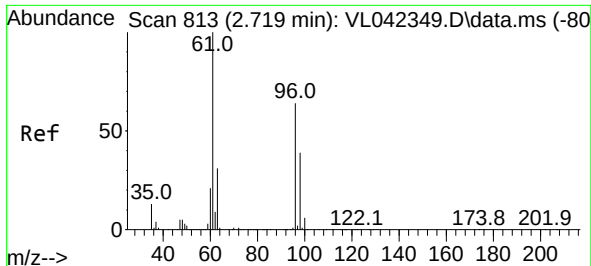
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#30
Cyclohexane
Concen: 1.013 ppbv m
RT: 3.862 min Scan# 1166
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

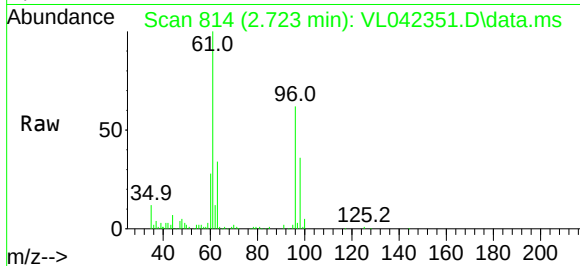
Tgt Ion: 84 Resp: 16547
Ion Ratio Lower Upper
84 100
56 134.2 101.0 151.4
41 85.1 67.4 101.0





#31
 cis-1,2-Dichloroethene
 Concen: 1.032 ppbv
 RT: 2.723 min Scan# 813
 Delta R.T. 0.004 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

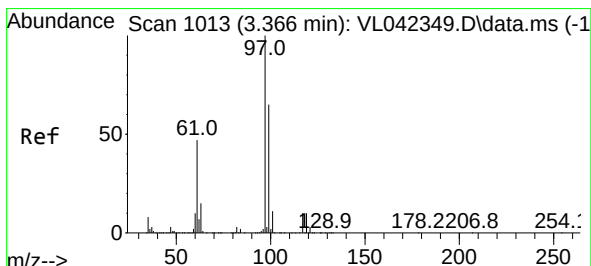
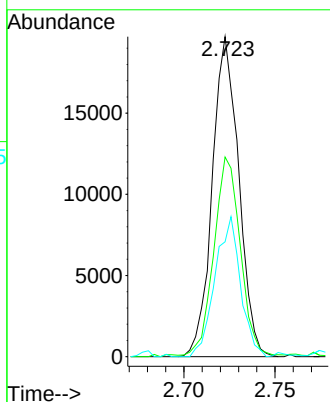
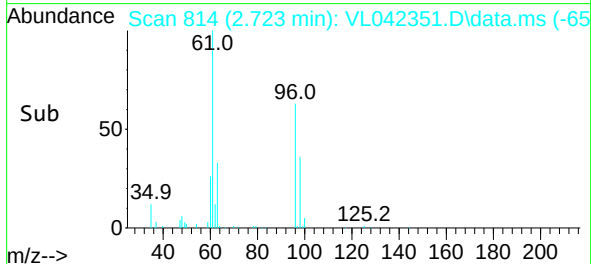
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001



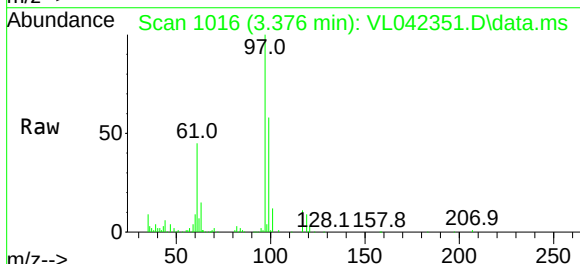
Tgt Ion: 61 Resp: 19904
 Ion Ratio Lower Upper
 61 100
 96 61.9 50.8 76.2
 98 35.9 30.9 46.3

Manual Integrations
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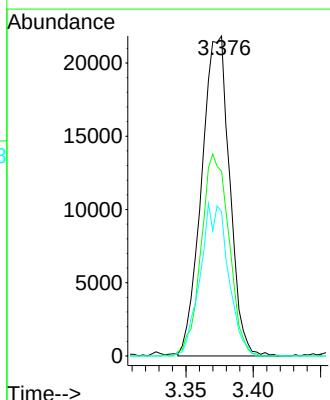
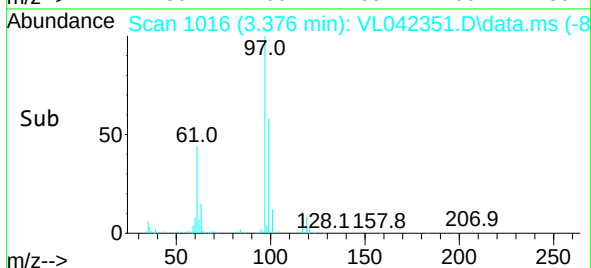
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

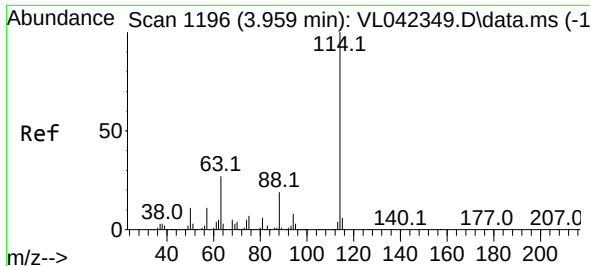


#32
 1,1,1-Trichloroethane
 Concen: 1.030 ppbv
 RT: 3.376 min Scan# 1016
 Delta R.T. 0.010 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48



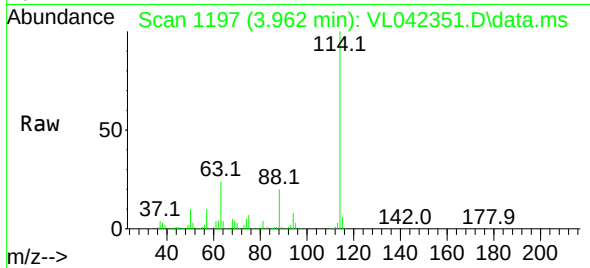
Tgt Ion: 97 Resp: 31653
 Ion Ratio Lower Upper
 97 100
 99 62.4 51.0 76.4
 61 47.6 38.8 58.2





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1196
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

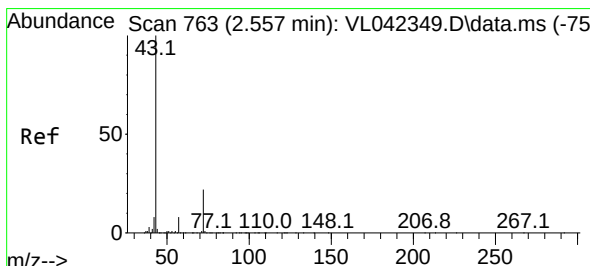
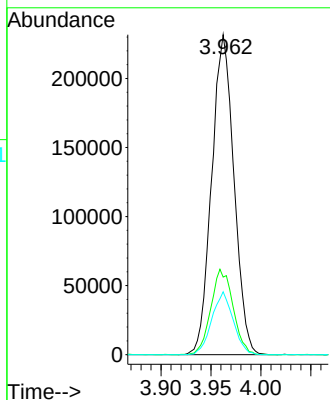
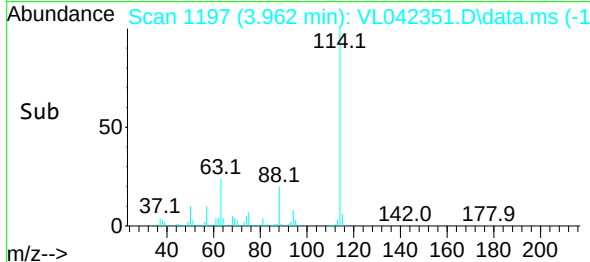
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



Tgt Ion:114 Resp: 35990
Ion Ratio Lower Upper
114 100
63 26.7 21.8 32.6
88 18.8 15.5 23.3

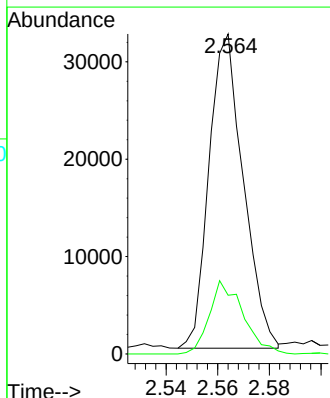
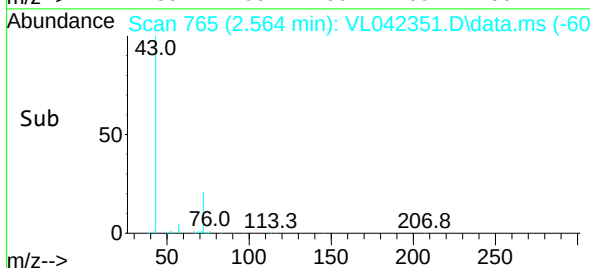
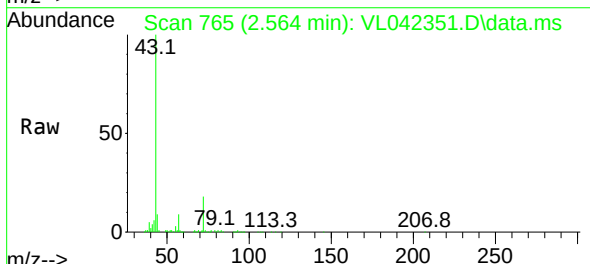
Manual Integrations
APPROVED

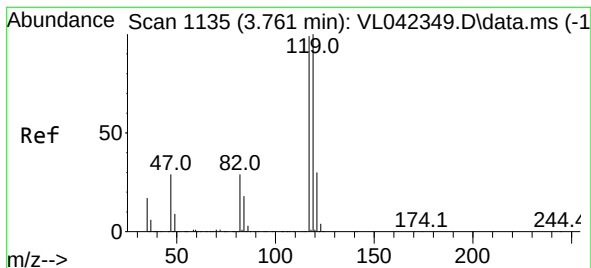
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#34
2-Butanone
Concen: 1.045 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 43 Resp: 29735
Ion Ratio Lower Upper
43 100
72 23.1 18.2 27.2





#35

Carbon Tetrachloride

Concen: 0.917 ppbv

RT: 3.768 min Scan# 1135

Delta R.T. 0.007 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA_L

ClientSampleId :

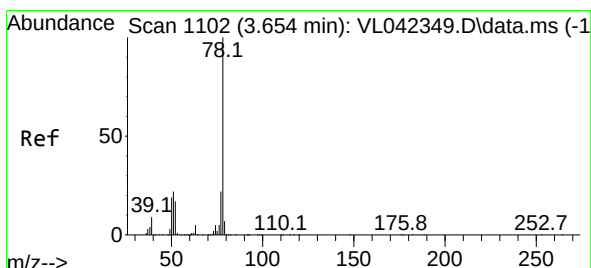
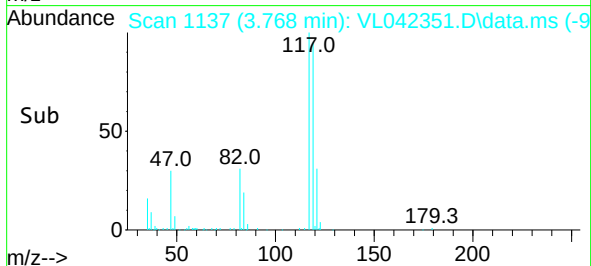
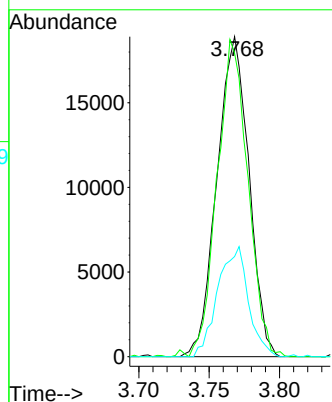
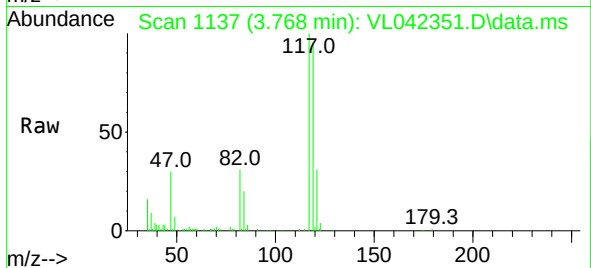
VSTDICC001

Tgt Ion:117	Resp:	2987
Ion Ratio	Lower	Upper
117	100	
119	93.3	80.5 120.7
121	31.3	24.2 36.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#36

Benzene

Concen: 0.997 ppbv

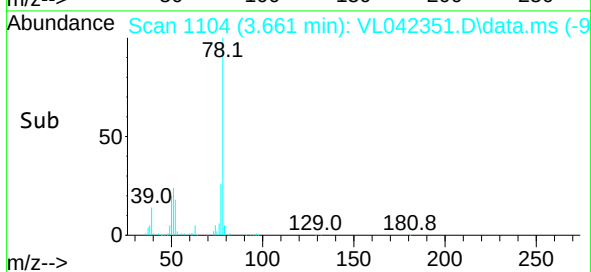
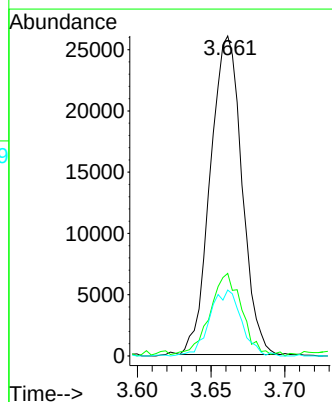
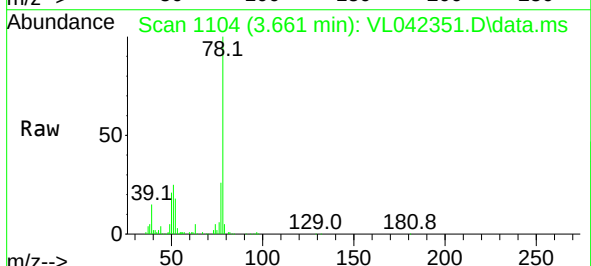
RT: 3.661 min Scan# 1104

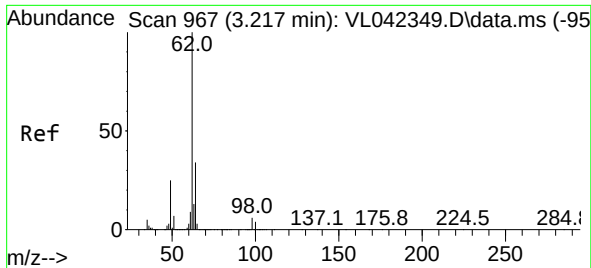
Delta R.T. 0.007 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Tgt Ion: 78	Resp:	38707
Ion Ratio	Lower	Upper
78	100	
77	24.7	17.4 26.0
50	20.7	15.5 23.3





#37

1,2-Dichloroethane

Concen: 0.999 ppbv

RT: 3.224 min Scan# 967

Delta R.T. 0.007 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC001

Tgt Ion: 62 Resp: 23284

Ion Ratio Lower Upper

62 100

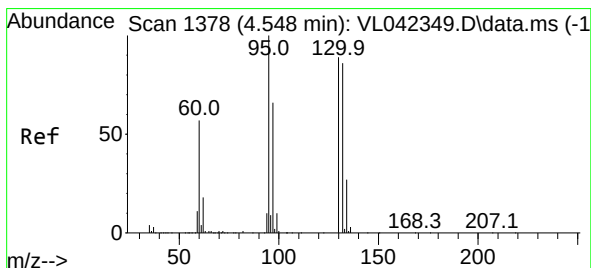
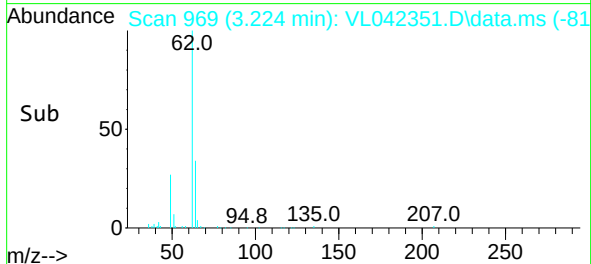
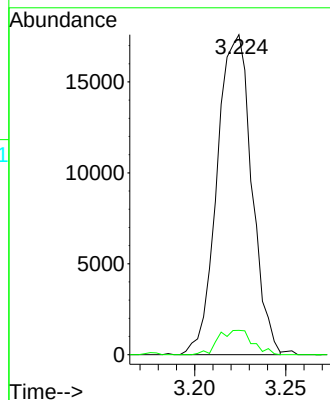
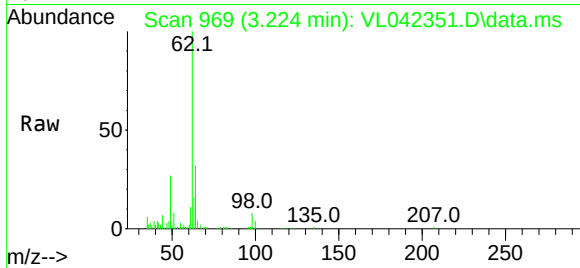
98 7.5 5.1 7.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#38

Trichloroethene

Concen: 0.947 ppbv

RT: 4.551 min Scan# 1379

Delta R.T. 0.004 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Tgt Ion:130 Resp: 16119

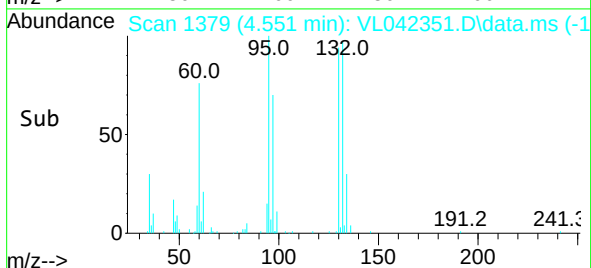
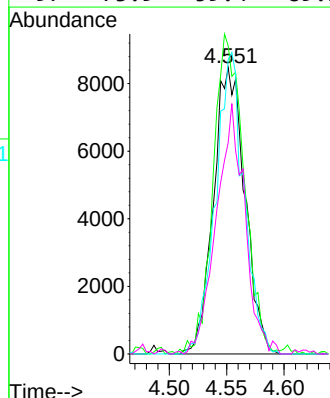
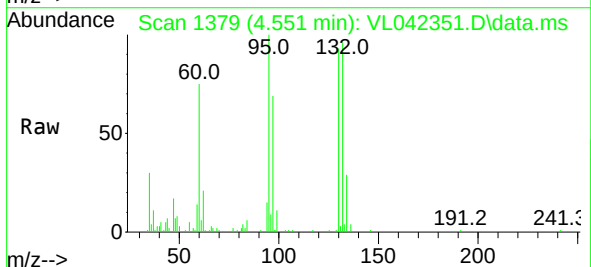
Ion Ratio Lower Upper

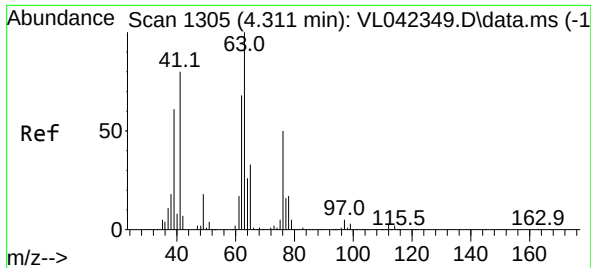
130 100

95 106.6 89.8 134.6

132 102.9 77.7 116.5

97 73.9 59.4 89.2





#39

1,2-Dichloropropane

Concen: 1.027 ppbv

RT: 4.318 min Scan# 1305

Delta R.T. 0.007 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA_L

ClientSampleId :

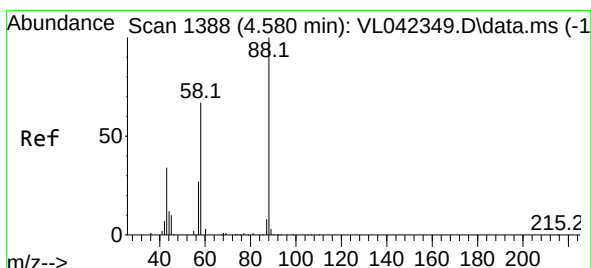
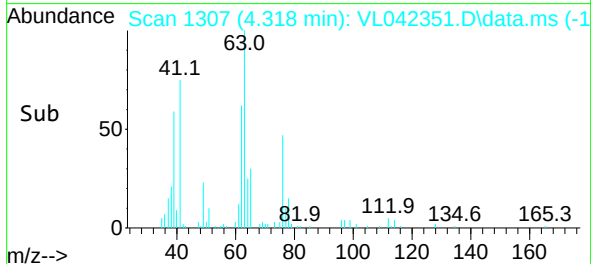
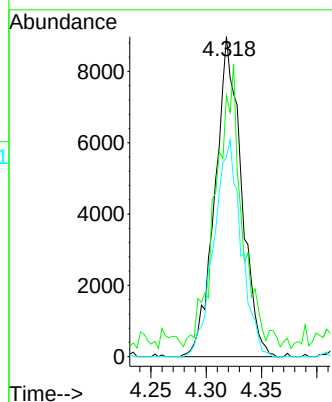
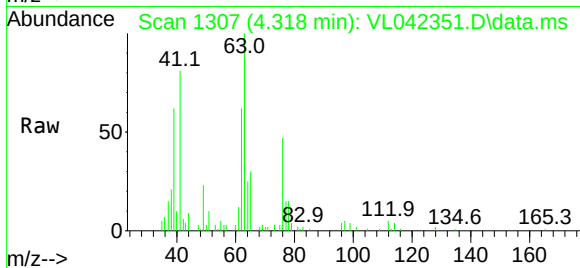
VSTDICC001

Tgt Ion: 63	Resp: 1486
Ion Ratio	Lower Upper
63	100
41	78.3 64.2 96.2
62	62.3 54.3 81.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#40

1,4-Dioxane

Concen: 1.114 ppbv m

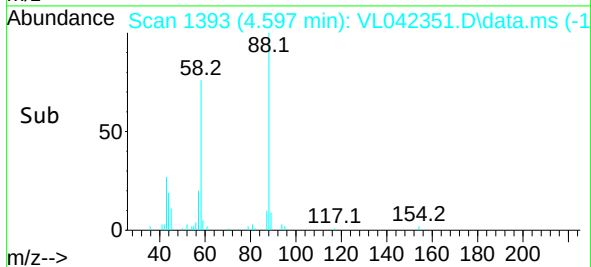
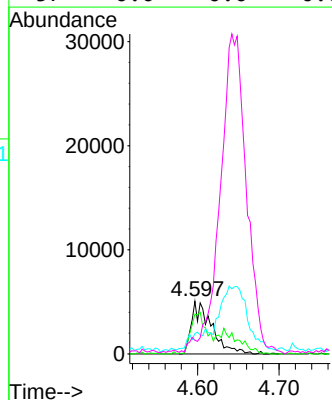
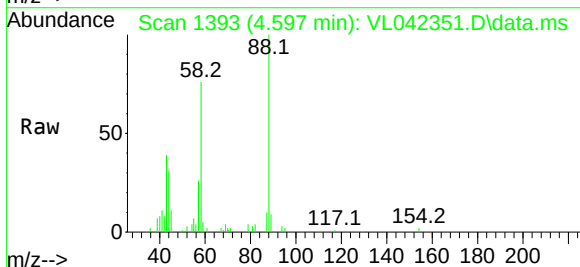
RT: 4.597 min Scan# 1393

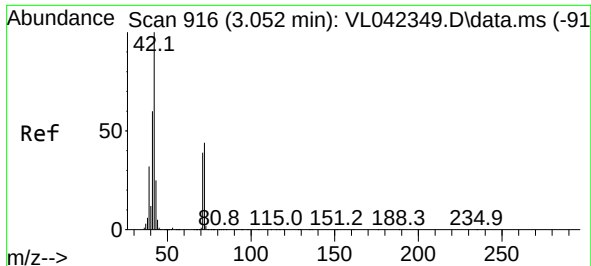
Delta R.T. 0.017 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Tgt Ion: 88	Resp: 8737
Ion Ratio	Lower Upper
88	100
58	110.6 61.4 92.0#
43	0.0 23.2 34.8#
57	0.0 0.0 0.0





#41

Tetrahydrofuran

Concen: 1.049 ppbv

RT: 3.062 min Scan# 916

Delta R.T. 0.010 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA_L

ClientSampleId :

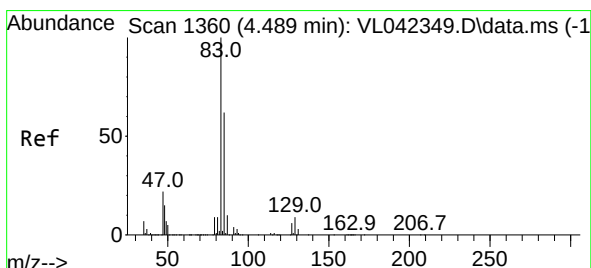
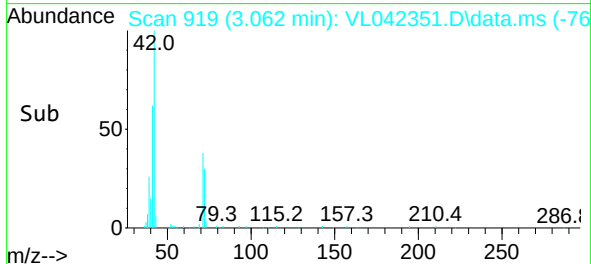
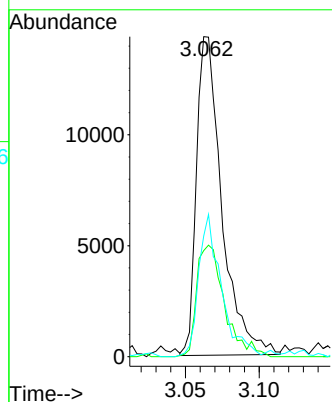
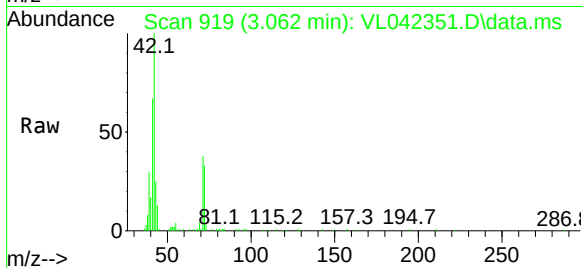
VSTDICC001

Tgt Ion:	42	Resp:	1725
Ion Ratio	Lower	Upper	
42	100		
72	38.1	32.3	48.5
71	42.3	31.4	47.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#42

Bromodichloromethane

Concen: 1.009 ppbv

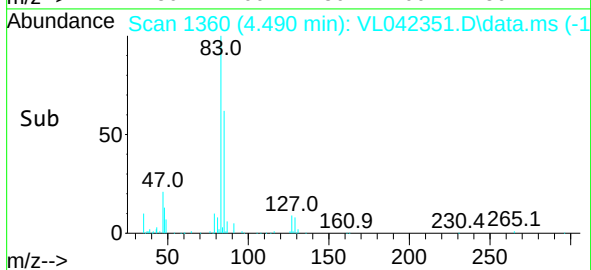
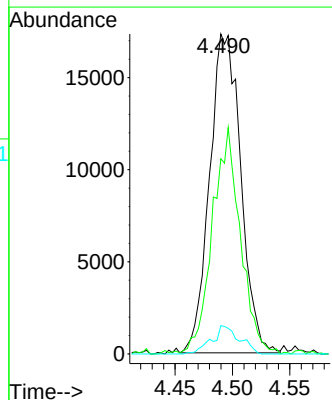
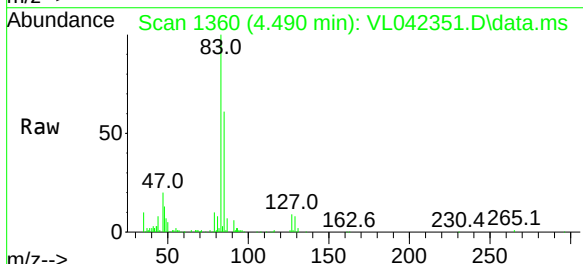
RT: 4.490 min Scan# 1360

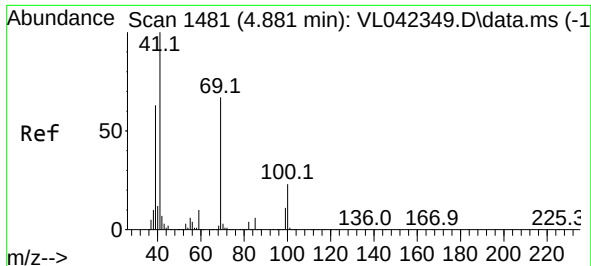
Delta R.T. 0.000 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

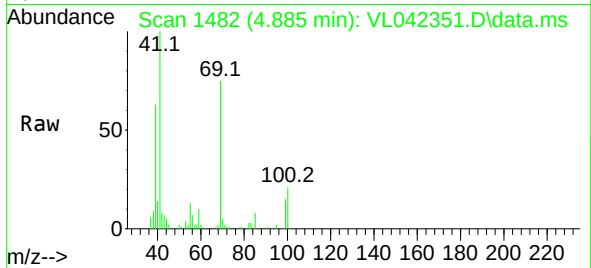
Tgt Ion:	83	Resp:	32721
Ion Ratio	Lower	Upper	
83	100		
85	61.2	49.7	74.5
127	8.9	5.1	7.7#





#43
Methyl Methacrylate
Concen: 1.073 ppbv m
RT: 4.885 min Scan# 1481
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

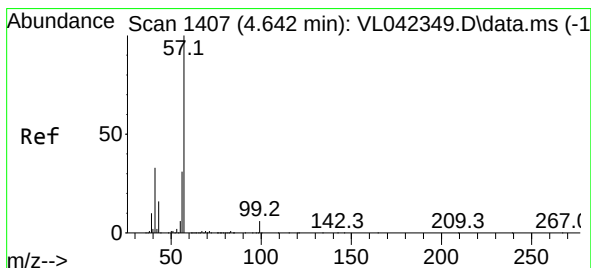
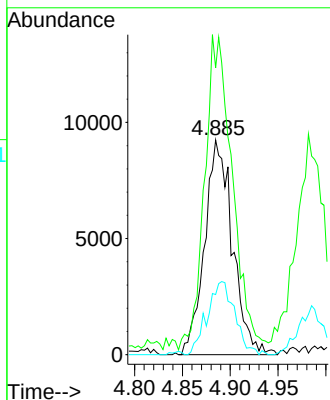
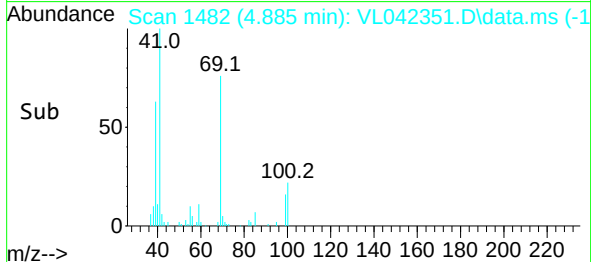
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



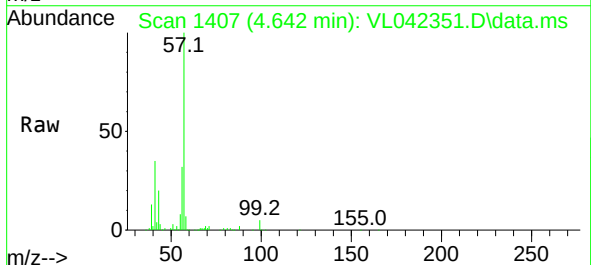
Tgt Ion: 69 Resp: 18699
Ion Ratio Lower Upper
69 100
41 149.3 118.6 177.8
100 0.0 28.2 42.2

Manual Integrations
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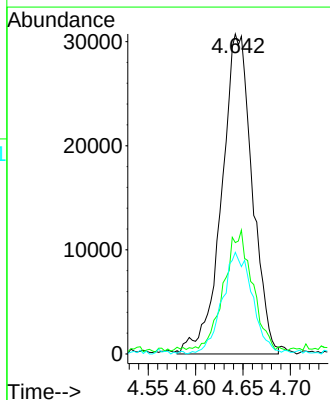
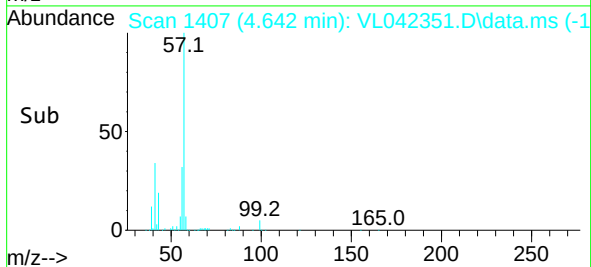
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

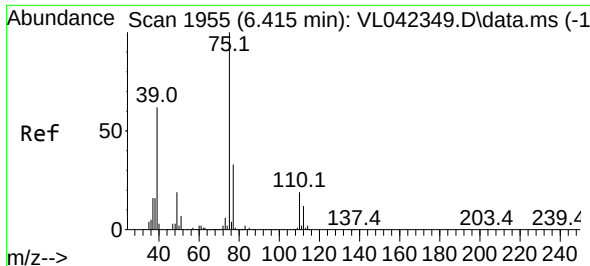


#44
2,2,4-Trimethylpentane
Concen: 1.027 ppbv m
RT: 4.642 min Scan# 1407
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48



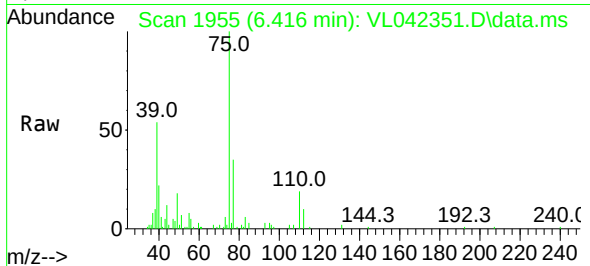
Tgt Ion: 57 Resp: 68946
Ion Ratio Lower Upper
57 100
41 37.9 27.2 40.8
56 0.0 25.7 38.5





#45
 t-1,3-Dichloropropene
 Concen: 1.026 ppbv m
 RT: 6.416 min Scan# 1955
 Delta R.T. 0.000 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

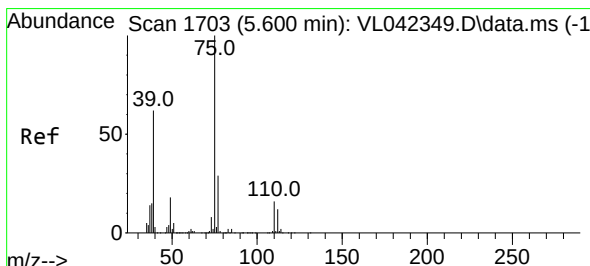
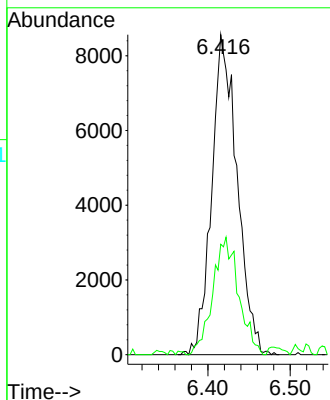
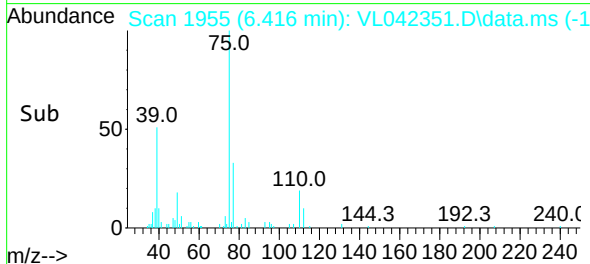
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



Tgt Ion: 75 Resp: 1834
 Ion Ratio Lower Upper
 75 100
 77 34.5 27.0 40.6

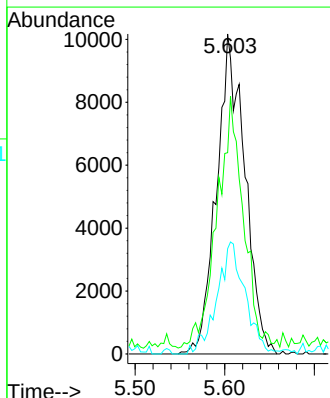
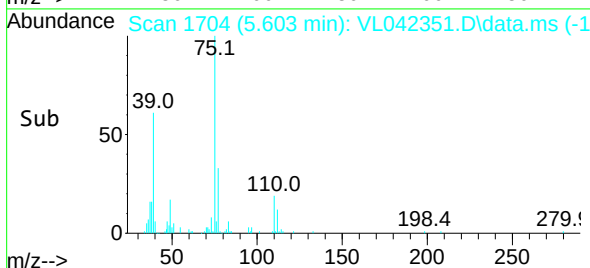
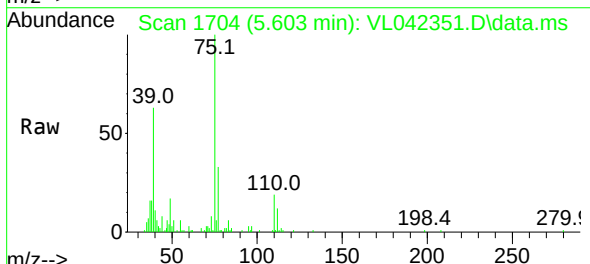
Manual Integrations
 APPROVED

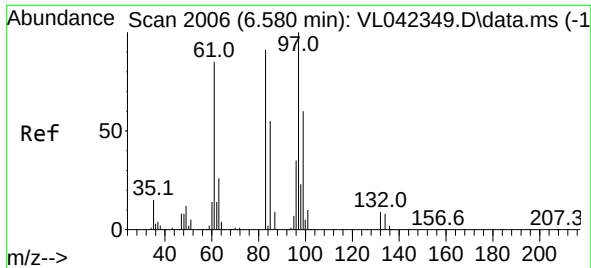
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#46
 cis-1,3-Dichloropropene
 Concen: 1.015 ppbv m
 RT: 5.603 min Scan# 1704
 Delta R.T. 0.004 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

Tgt Ion: 75 Resp: 22189
 Ion Ratio Lower Upper
 75 100
 39 62.9 50.0 75.0
 77 32.9 23.0 34.6





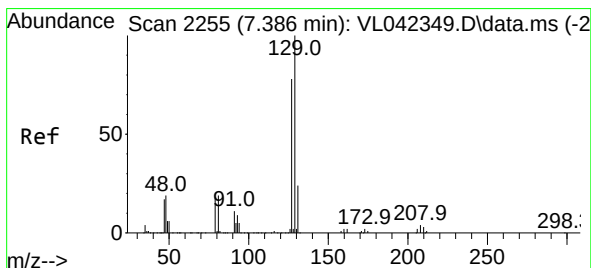
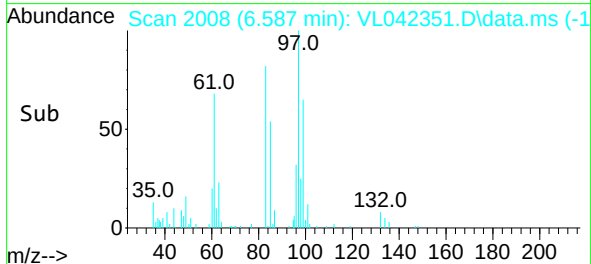
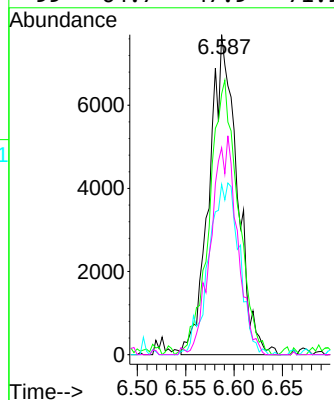
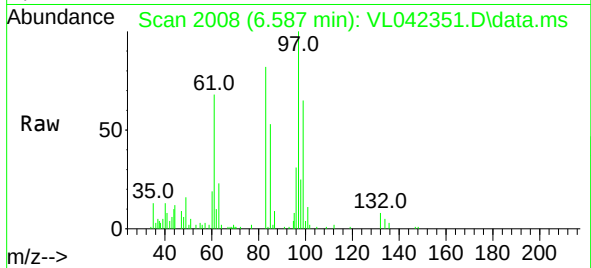
#47
1,1,2-Trichloroethane
Concen: 1.048 ppbv m
RT: 6.587 min Scan# 2006
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:	97	Resp:	1545
Ion	Ratio	Lower	Upper
97	100		
83	81.5	72.8	109.2
85	53.2	44.2	66.4
99	64.7	47.9	71.9

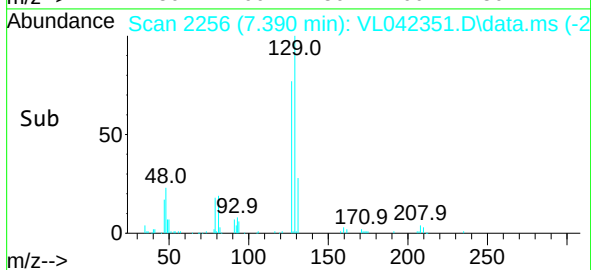
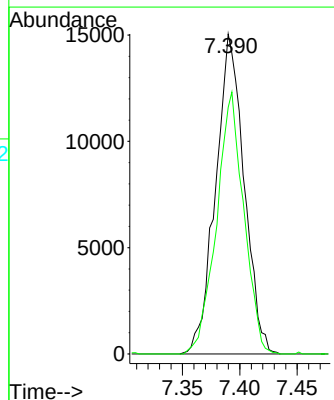
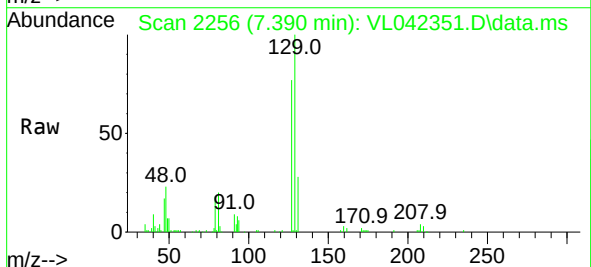
Manual Integrations
APPROVED

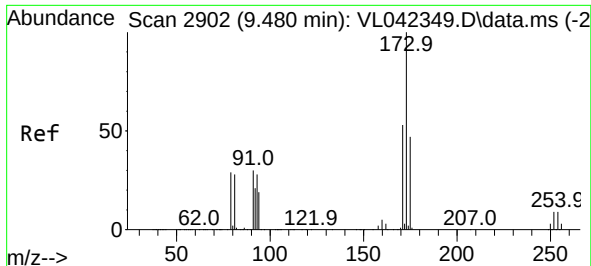
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#48
Dibromochloromethane
Concen: 0.997 ppbv
RT: 7.390 min Scan# 2256
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

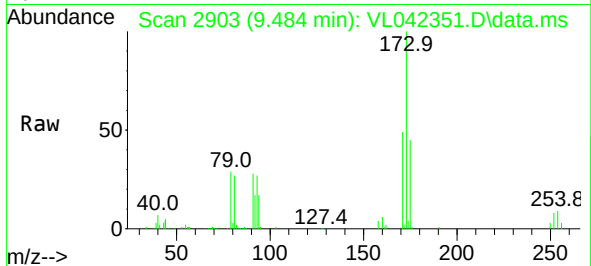
Tgt Ion:	129	Resp:	25948
Ion	Ratio	Lower	Upper
129	100		
127	78.4	39.1	117.3





#49
Bromoform
Concen: 0.984 ppbv
RT: 9.484 min Scan# 2902
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

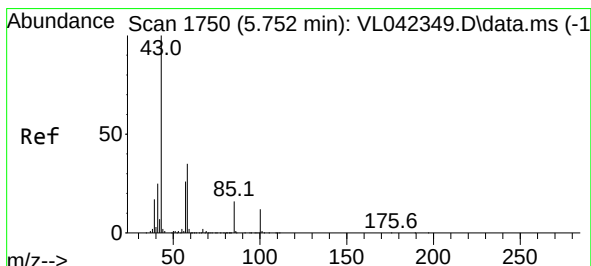
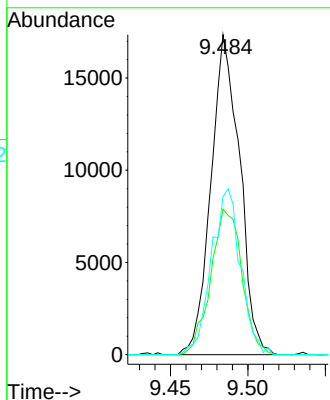
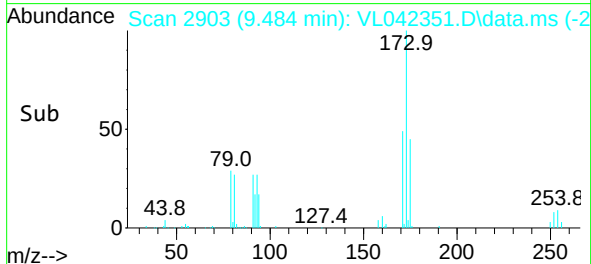
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



Tgt Ion: 173 Resp: 2241
Ion Ratio Lower Upper
173 100
175 49.3 38.2 57.2
171 52.7 40.9 61.3

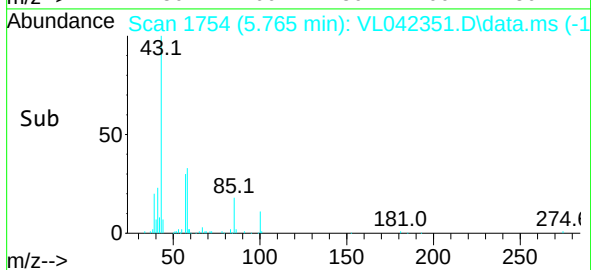
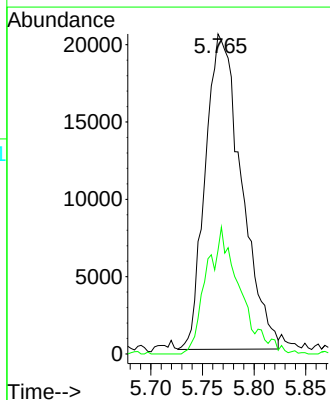
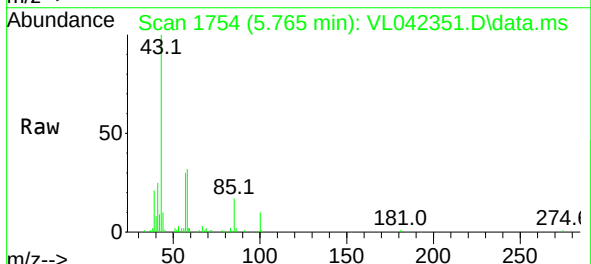
Manual Integrations
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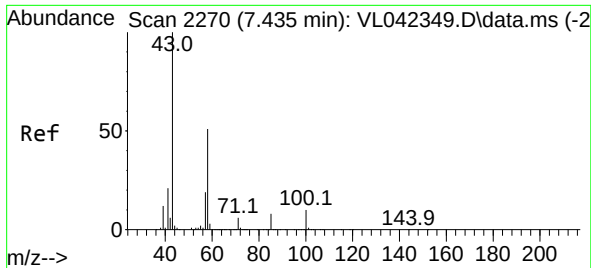
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#50
4-Methyl-2-Pentanone
Concen: 1.049 ppbv
RT: 5.765 min Scan# 1754
Delta R.T. 0.013 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 43 Resp: 49725
Ion Ratio Lower Upper
43 100
58 37.7 28.6 43.0





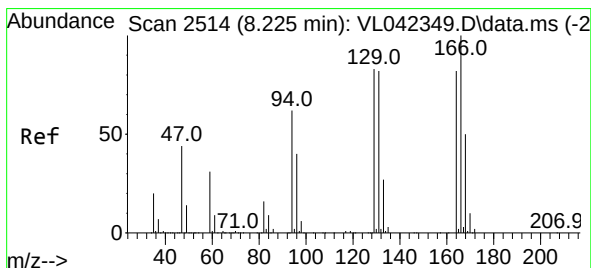
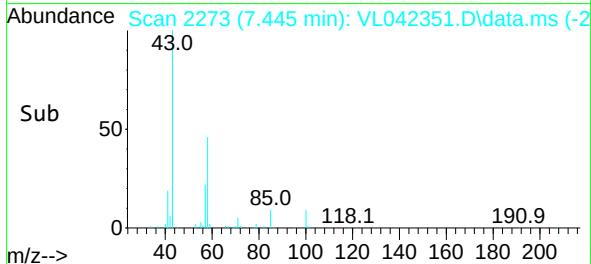
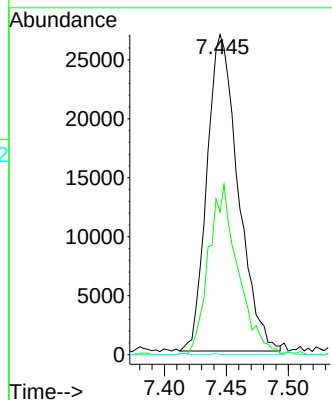
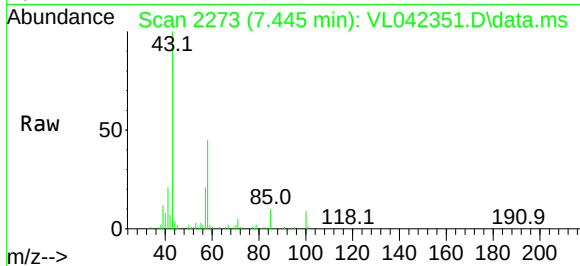
#51
2-Hexanone
Concen: 1.103 ppbv
RT: 7.445 min Scan# 2115
Delta R.T. 0.010 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 43 Resp: 47178
Ion Ratio Lower Upper
43 100
58 50.8 40.2 60.4
98 0.1 0.1 0.1

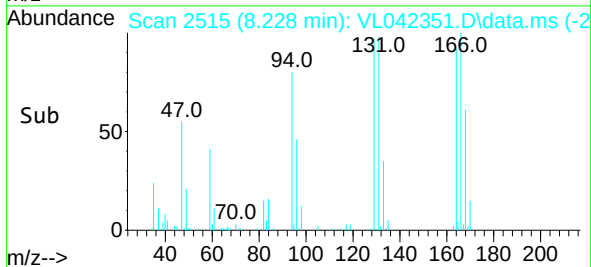
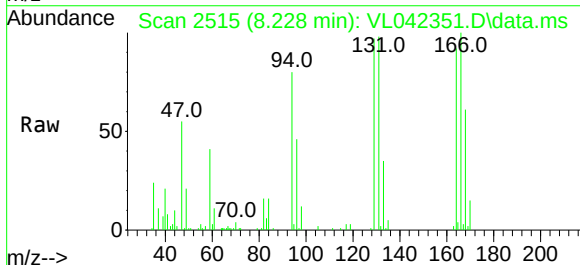
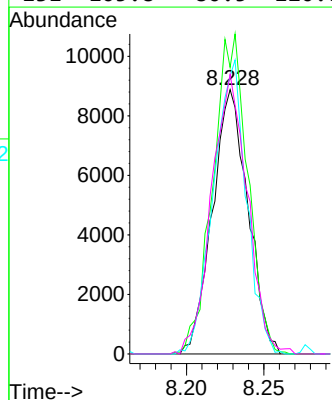
Manual Integrations
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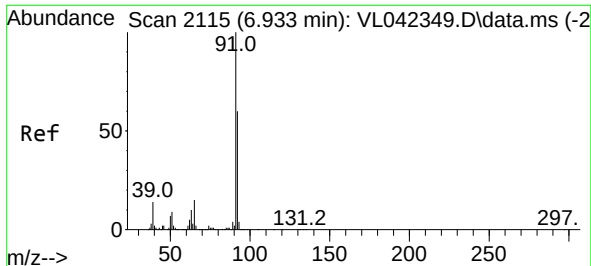
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#52
Tetrachloroethene
Concen: 0.943 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

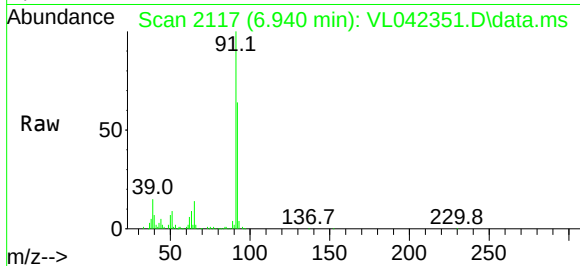
Tgt Ion:164 Resp: 14154
Ion Ratio Lower Upper
164 100
166 107.7 98.2 147.2
129 104.2 81.8 122.8
131 105.8 80.5 120.7





#53
Toluene
Concen: 1.001 ppbv
RT: 6.940 min Scan# 2115
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

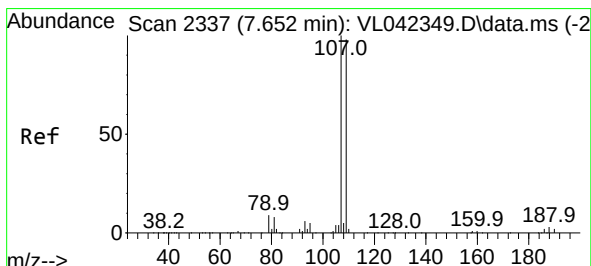
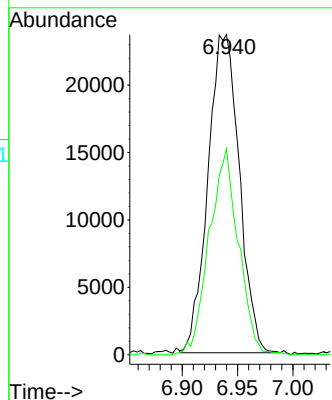
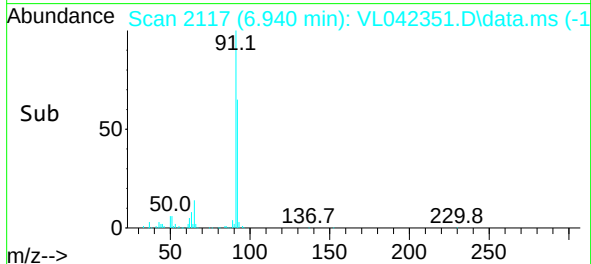
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



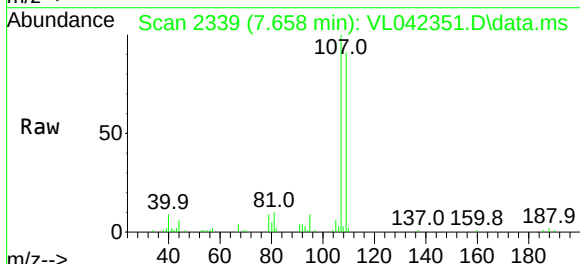
Tgt Ion: 91 Resp: 4661
Ion Ratio Lower Upper
91 100
92 60.4 48.2 72.4

Manual Integrations
APPROVED

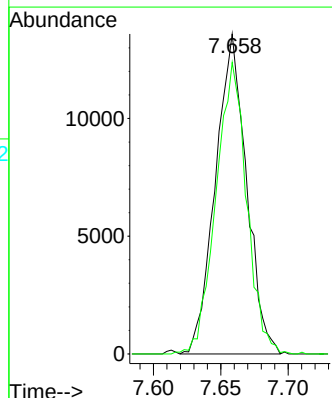
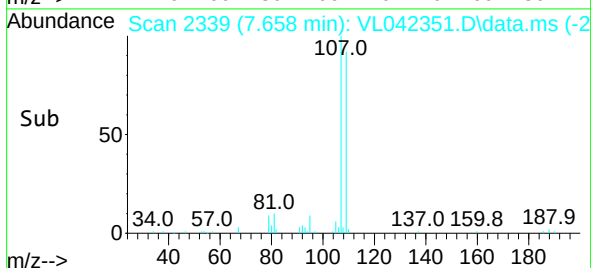
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

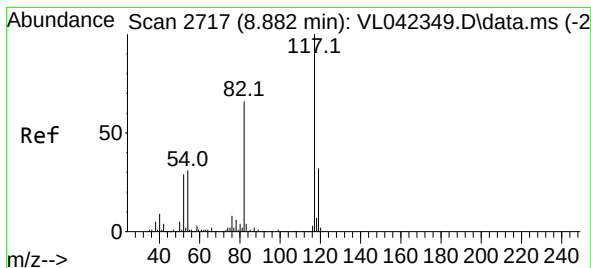


#54
1,2-Dibromoethane
Concen: 1.036 ppbv
RT: 7.658 min Scan# 2339
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48



Tgt Ion:107 Resp: 21780
Ion Ratio Lower Upper
107 100
109 90.7 78.2 117.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.885 min Scan# 2717

Delta R.T. 0.004 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA_L

ClientSampleId :

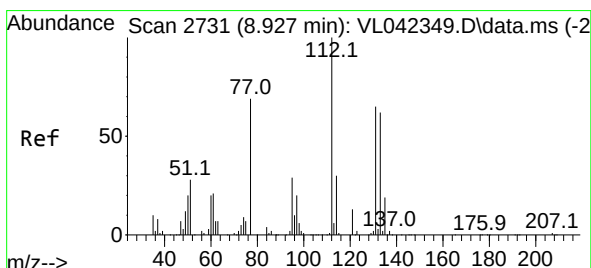
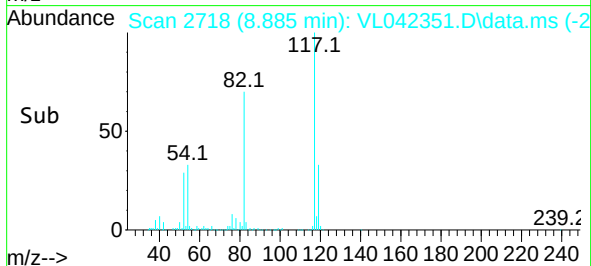
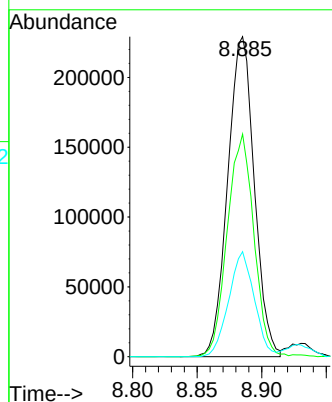
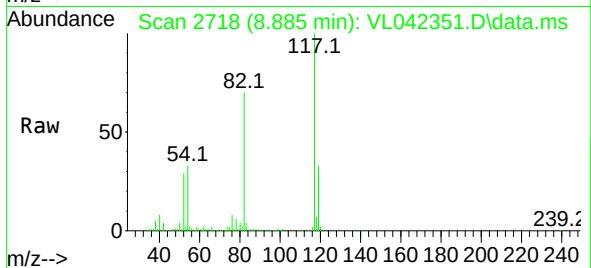
VSTDIC001

Tgt Ion:117 Resp: 329090
 Ion Ratio Lower Upper
 117 100
 82 69.7 57.8 86.6
 119 31.8 25.2 37.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#56

1,1,1,2-Tetrachloroethane

Concen: 1.057 ppbv

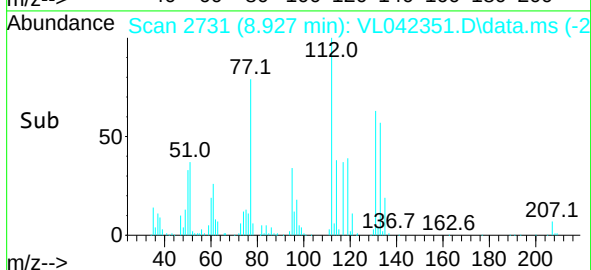
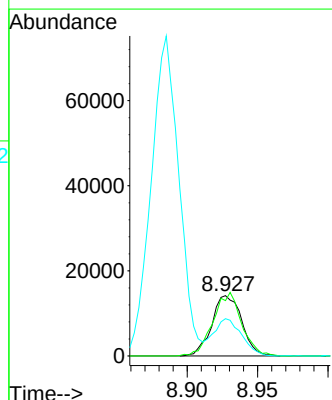
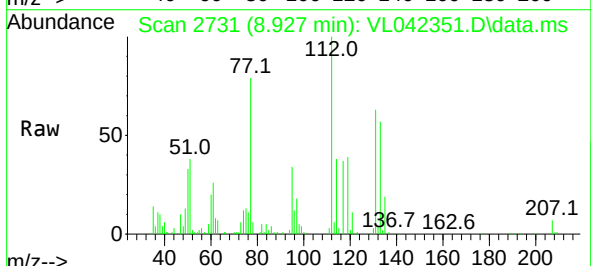
RT: 8.927 min Scan# 2731

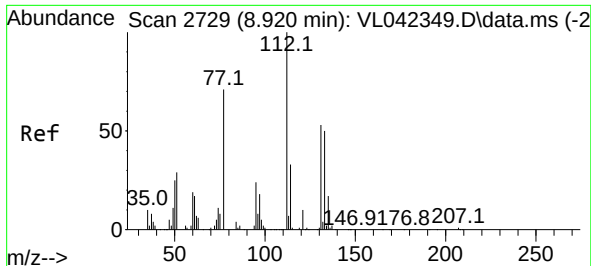
Delta R.T. 0.000 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

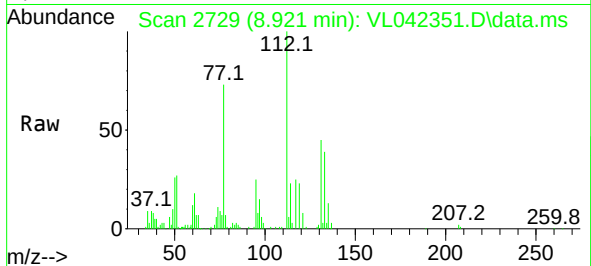
Tgt Ion:131 Resp: 21052
 Ion Ratio Lower Upper
 131 100
 133 100.5 78.3 117.5
 119 55.1 48.7 73.1





#57
Chlorobenzene
Concen: 1.026 ppbv
RT: 8.921 min Scan# 2729
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

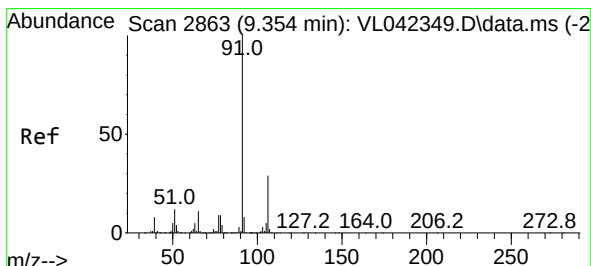
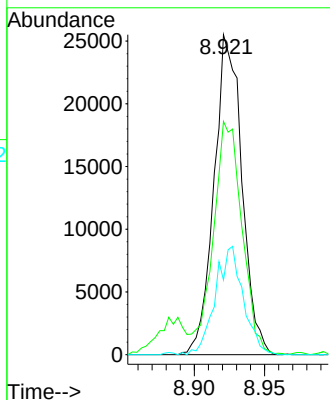
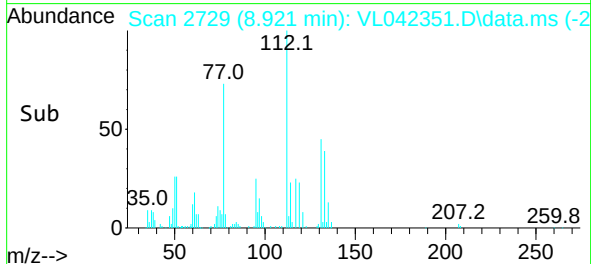
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



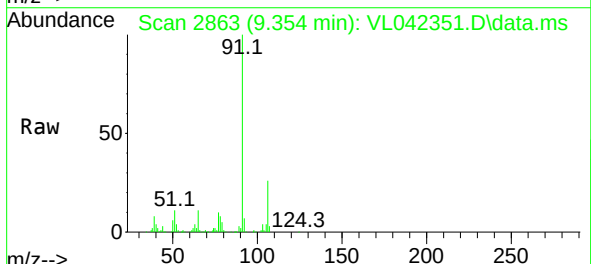
Tgt Ion:112 Resp: 3511
Ion Ratio Lower Upper
112 100
77 72.4 57.8 86.6
114 23.3 29.3 35.9

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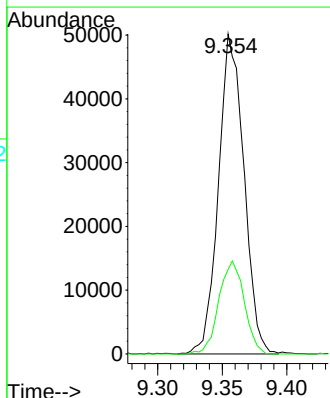
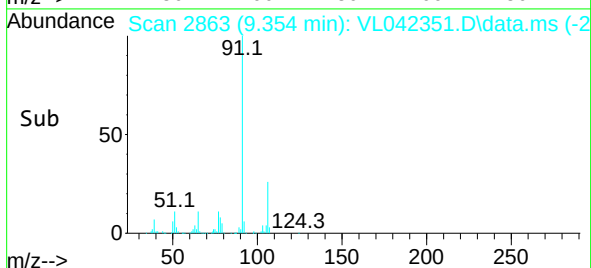
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

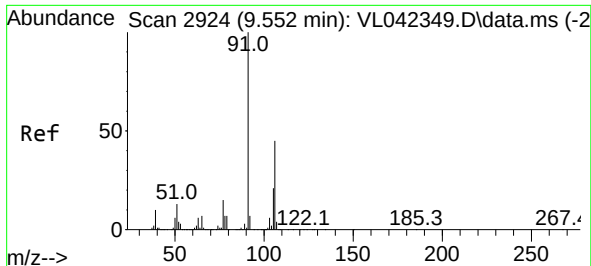


#58
Ethyl Benzene
Concen: 1.054 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48



Tgt Ion: 91 Resp: 68703
Ion Ratio Lower Upper
91 100
106 26.5 23.0 34.4





#59

m/p-Xylene

Concen: 2.101 ppbv m

RT: 9.552 min Scan# 2924

Delta R.T. 0.000 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC001

Tgt Ion: 91 Resp: 11070

Ion Ratio Lower Upper

91 100

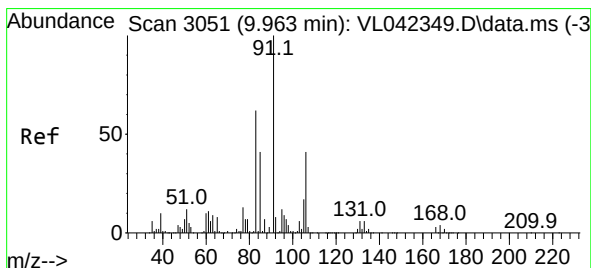
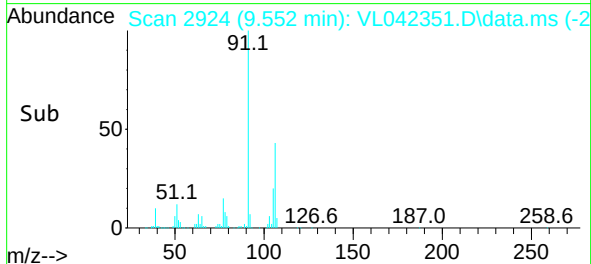
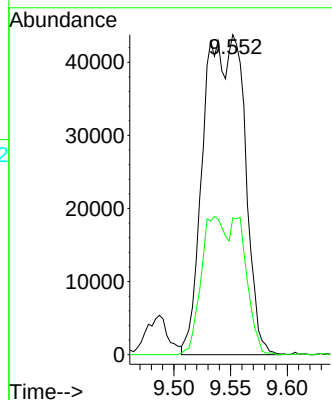
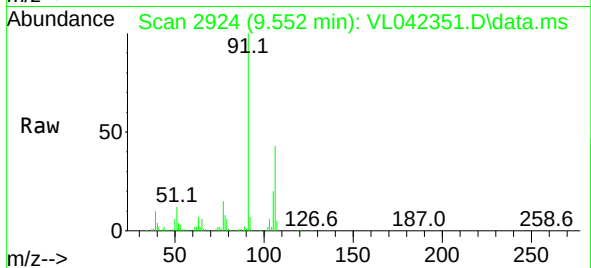
106 0.0 35.4 53.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#60

o-Xylene

Concen: 1.056 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. 0.004 min

Lab File: VL042351.D

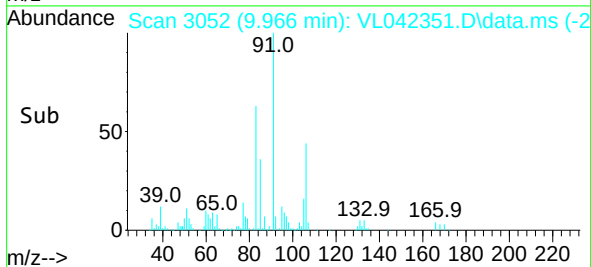
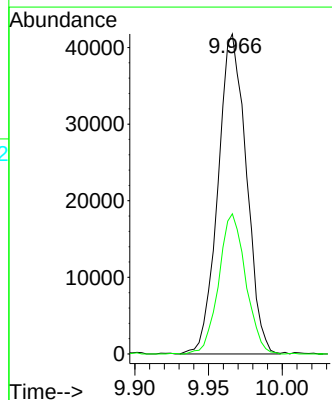
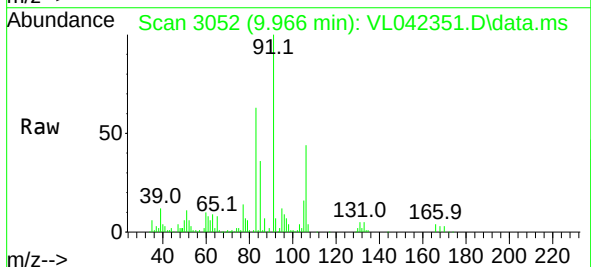
Acq: 17 Apr 2025 10:48

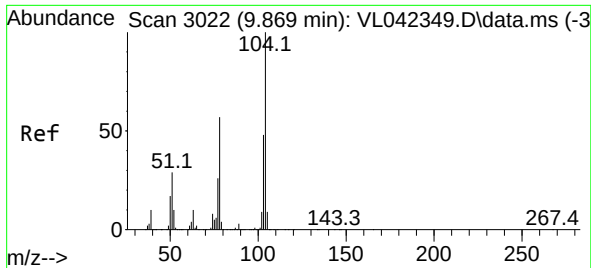
Tgt Ion: 91 Resp: 55831

Ion Ratio Lower Upper

91 100

106 41.6 21.1 63.4





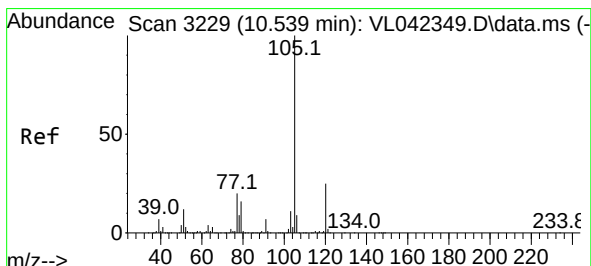
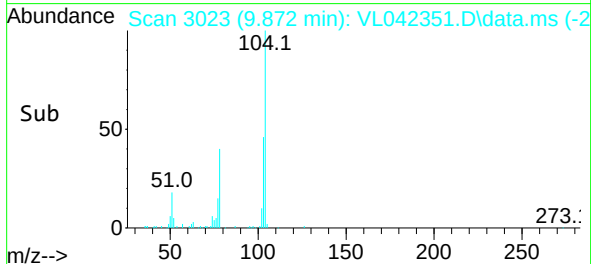
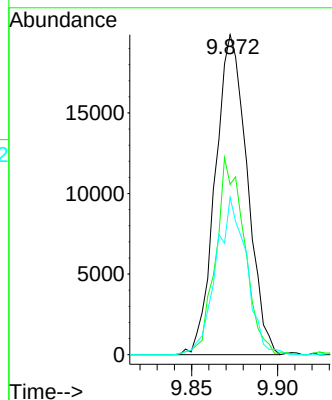
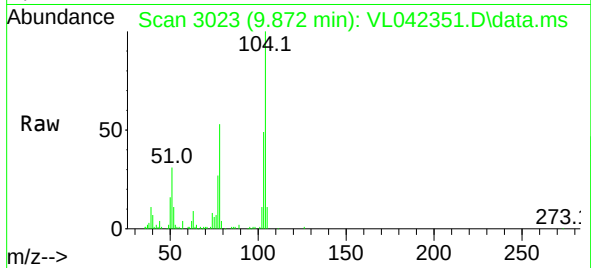
#61
Styrene
Concen: 1.012 ppbv
RT: 9.872 min Scan# 3022
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion:104 Resp: 25544
Ion Ratio Lower Upper
104 100
78 55.7 44.6 66.8
103 47.2 37.4 56.0

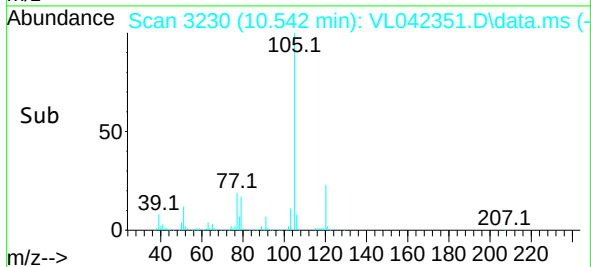
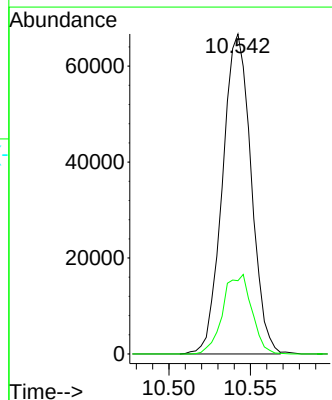
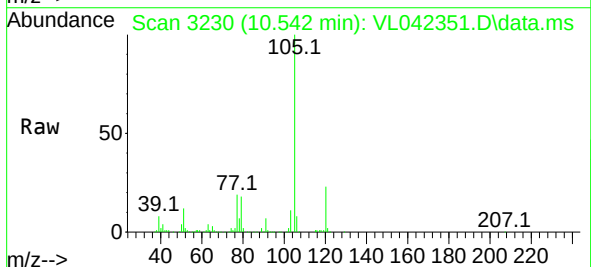
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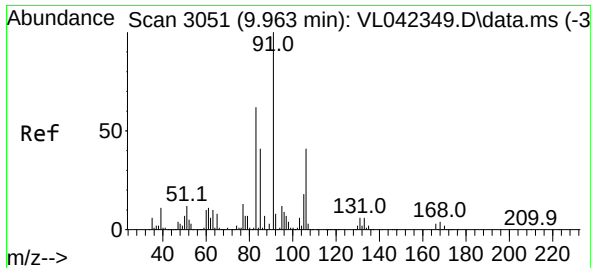
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#62
Isopropylbenzene
Concen: 1.047 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

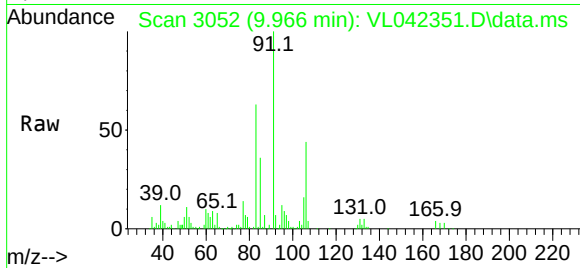
Tgt Ion:105 Resp: 81286
Ion Ratio Lower Upper
105 100
120 25.0 19.8 29.8





#63
1,1,2,2-Tetrachloroethane
Concen: 0.943 ppbv
RT: 9.966 min Scan# 3051
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

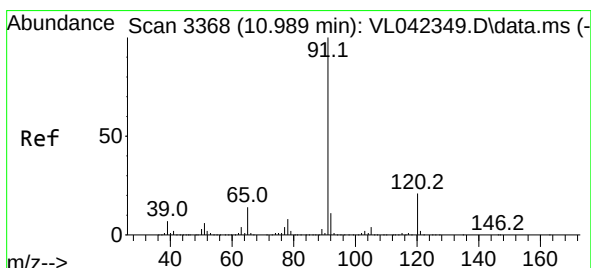
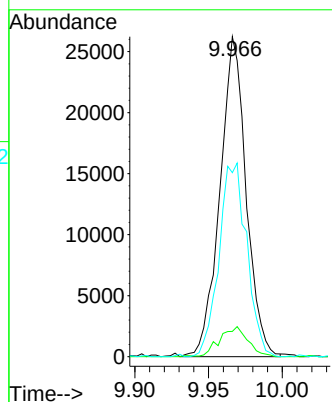
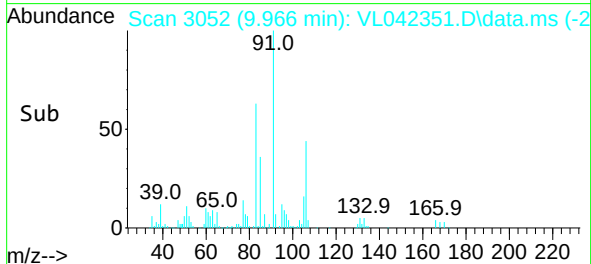
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



Tgt Ion: 83 Resp: 32410
Ion Ratio Lower Upper
83 100
131 10.2 4.5 13.7
85 64.4 32.4 97.0

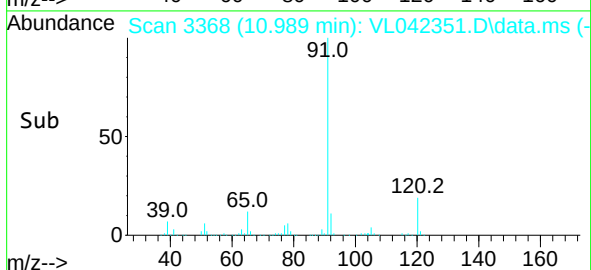
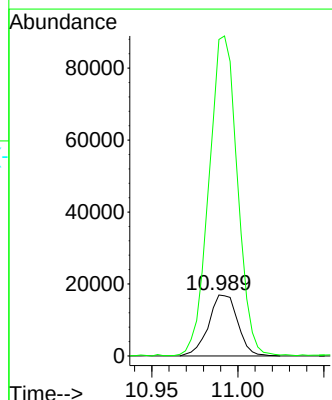
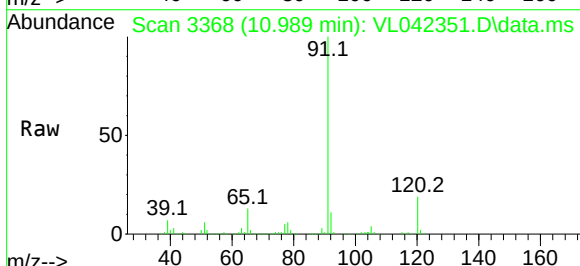
Manual Integrations
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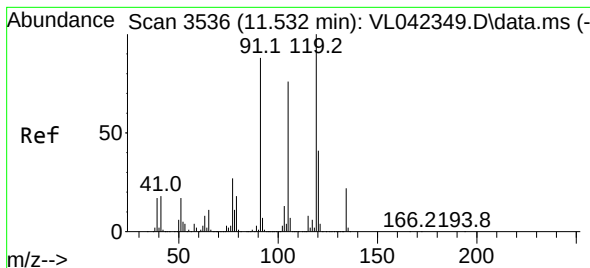
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#64
n-propylbenzene
Concen: 1.019 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

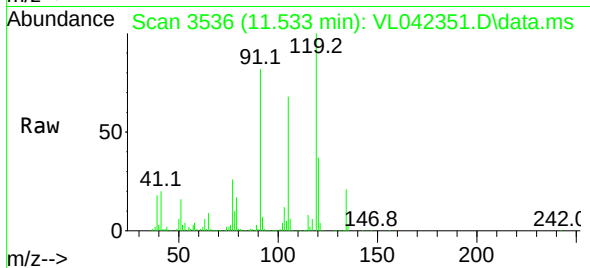
Tgt Ion:120 Resp: 19898
Ion Ratio Lower Upper
120 100
91 517.6 392.4 588.6





#65
tert-Butylbenzene
Concen: 1.087 ppbv
RT: 11.533 min Scan# 3536
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

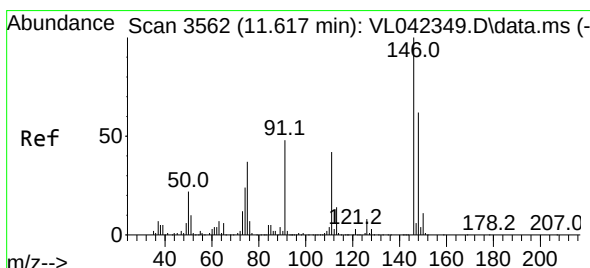
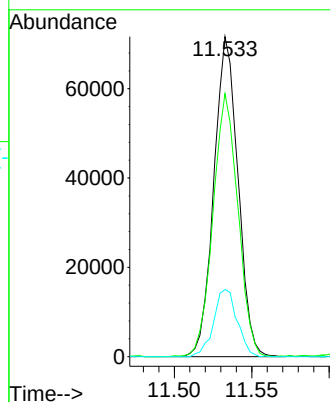
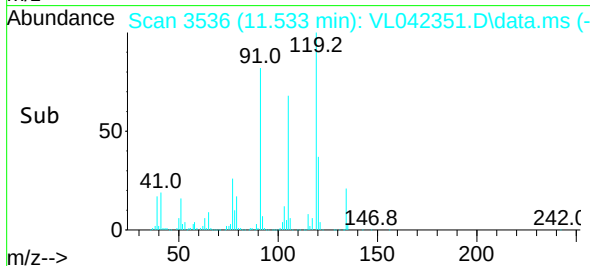
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



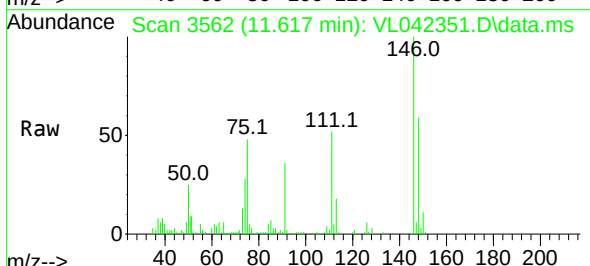
Tgt Ion:119 Resp: 77598
Ion Ratio Lower Upper
119 100
91 85.0 74.6 111.8
134 20.5 18.8 28.2

Manual Integrations
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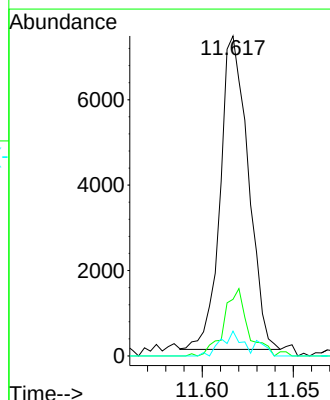
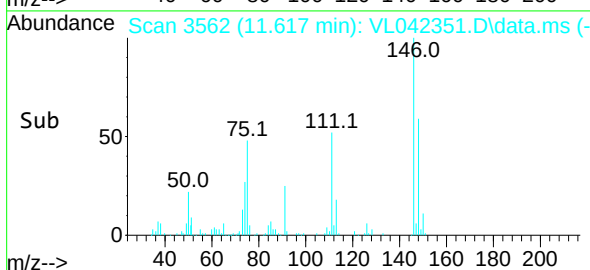
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

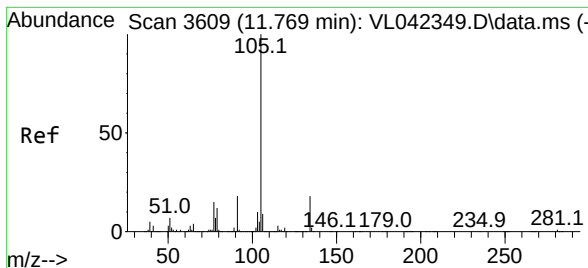


#66
Benzyl Chloride
Concen: 1.003 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48



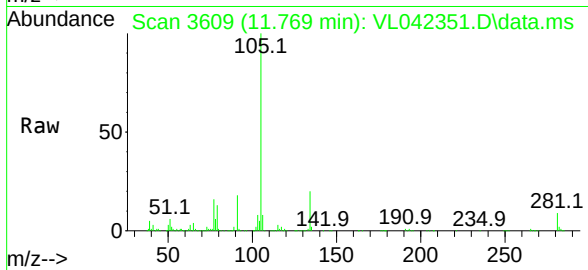
Tgt Ion: 91 Resp: 7864
Ion Ratio Lower Upper
91 100
126 18.6 11.8 17.6#
128 7.7 4.5 6.7#





#67
 sec-Butylbenzene
 Concen: 1.067 ppbv
 RT: 11.769 min Scan# 3609
 Delta R.T. 0.000 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

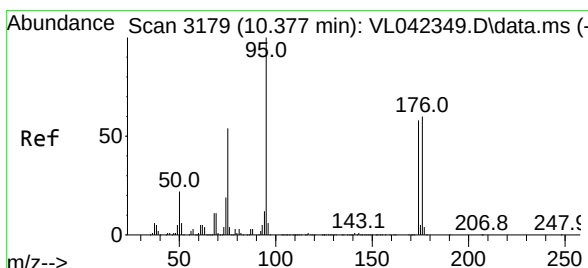
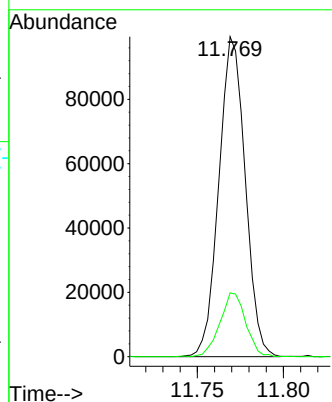
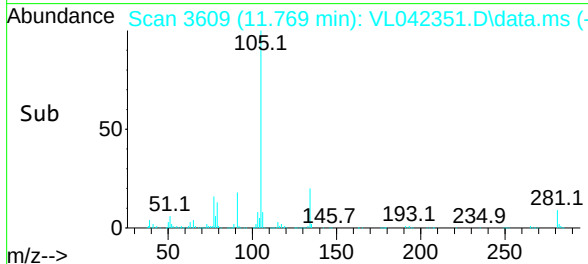
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



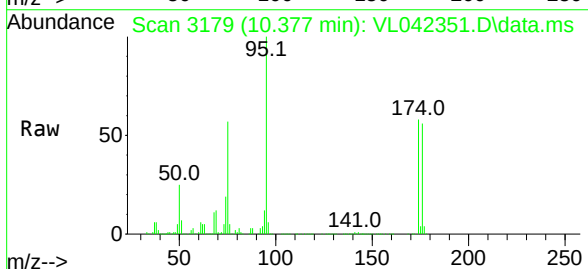
Tgt Ion: 105 Resp: 105919
 Ion Ratio Lower Upper
 105 100
 134 19.6 14.6 21.8

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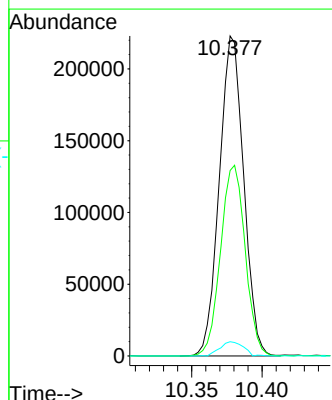
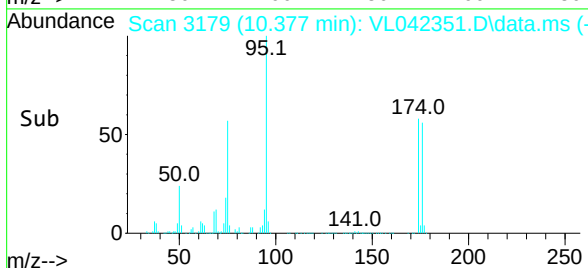
Reviewed By : Semsettin Yesilyurt 04/18/2025
 Supervised By : Mahesh Dadoda 04/18/2025

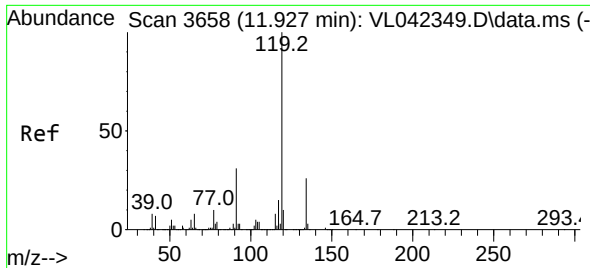


#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.950 ppbv
 RT: 10.377 min Scan# 3179
 Delta R.T. 0.000 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48



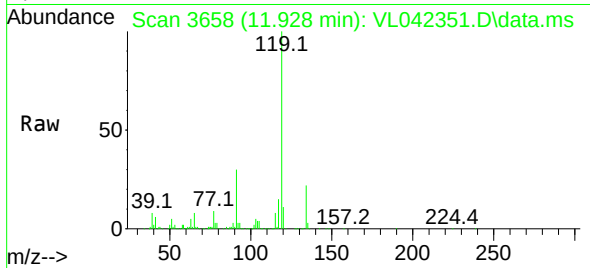
Tgt Ion: 95 Resp: 269087
 Ion Ratio Lower Upper
 95 100
 174 60.4 48.5 72.7
 175 4.3 3.7 5.5





#69
p-Isopropyltoluene
Concen: 1.075 ppbv
RT: 11.928 min Scan# 3658
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

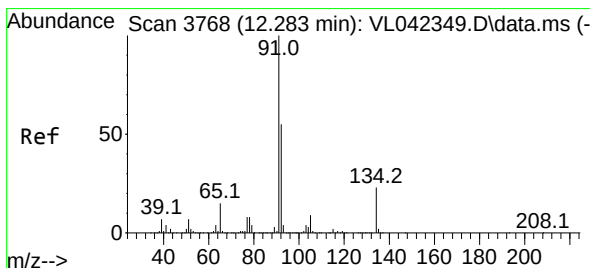
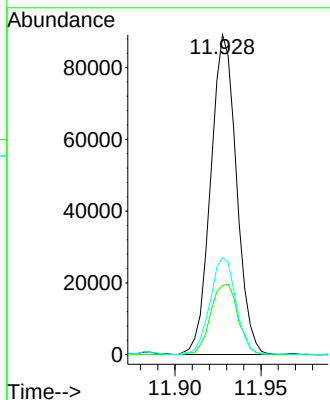
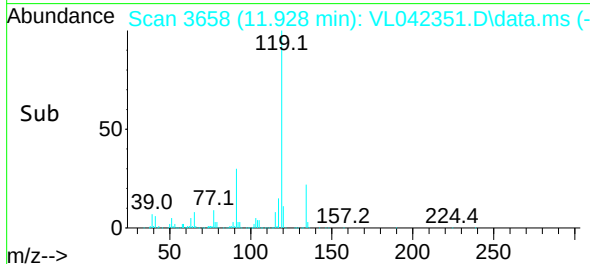
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



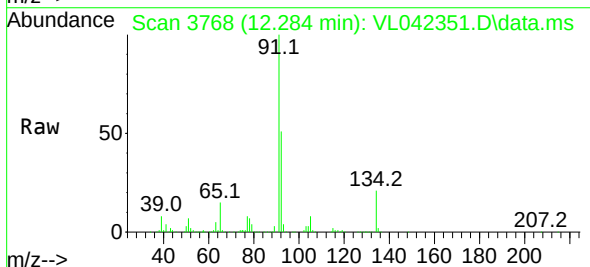
Tgt Ion: 119 Resp: 9273
Ion Ratio Lower Upper
119 100
134 23.5 20.0 30.0
91 32.1 24.4 36.6

Manual Integrations
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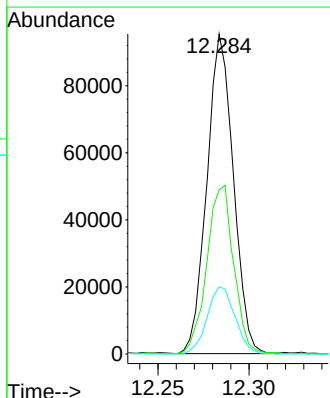
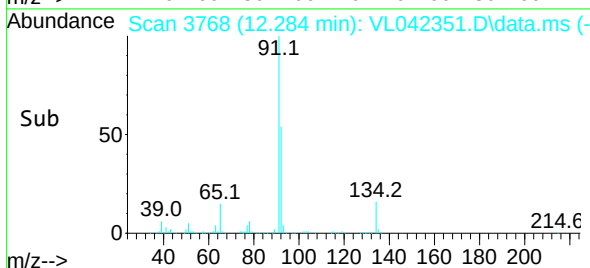
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

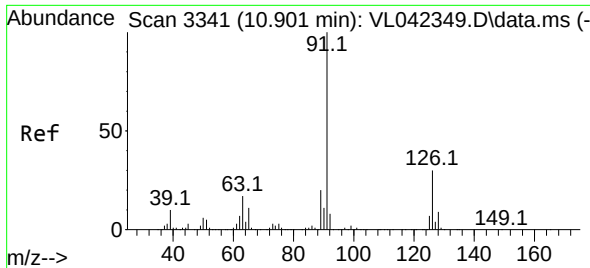


#70
n-Butylbenzene
Concen: 1.072 ppbv
RT: 12.284 min Scan# 3768
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48



Tgt Ion: 91 Resp: 96306
Ion Ratio Lower Upper
91 100
92 54.2 44.2 66.4
134 22.1 18.2 27.4





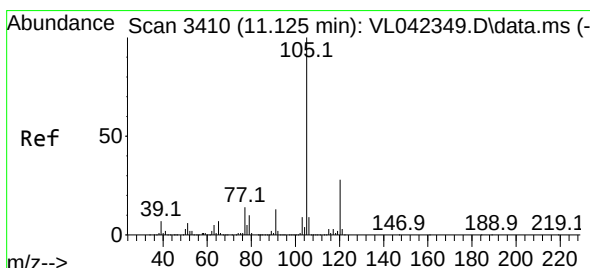
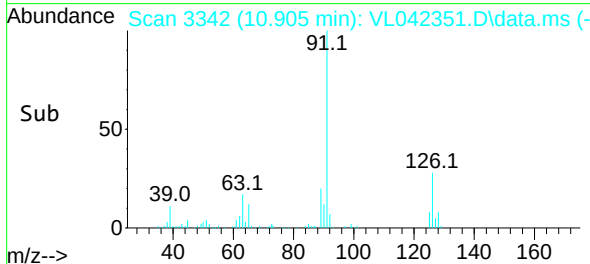
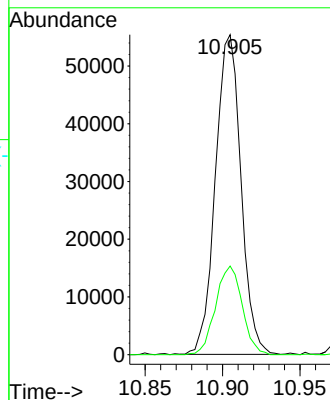
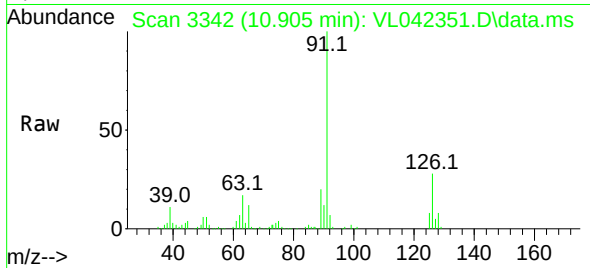
#71
2-Chlorotoluene
Concen: 1.040 ppbv
RT: 10.905 min Scan# 31
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 91 Resp: 6332
Ion Ratio Lower Upper
91 100
126 28.9 11.4 45.4

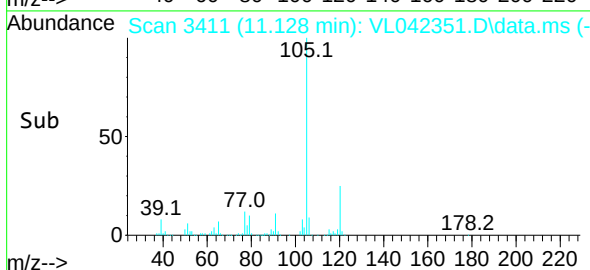
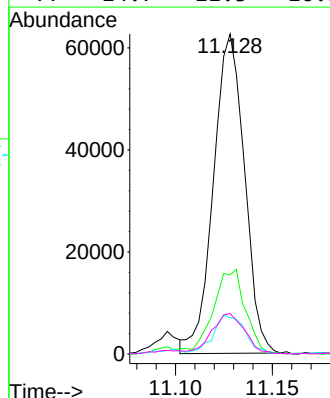
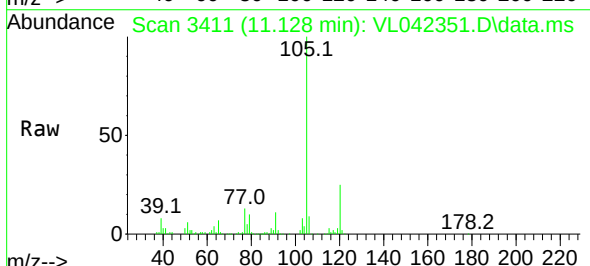
Manual Integrations
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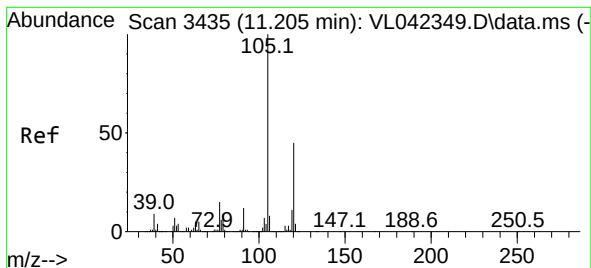
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#72
4-Ethyltoluene
Concen: 1.078 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:105 Resp: 69698
Ion Ratio Lower Upper
105 100
120 29.2 23.2 34.8
91 13.5 10.4 15.6
77 14.7 11.3 16.9





#73

1,3,5-Trimethylbenzene

Concen: 1.067 ppbv

RT: 11.206 min Scan# 3435

Delta R.T. 0.000 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion:105 Resp: 6092

Ion Ratio Lower Upper

105 100

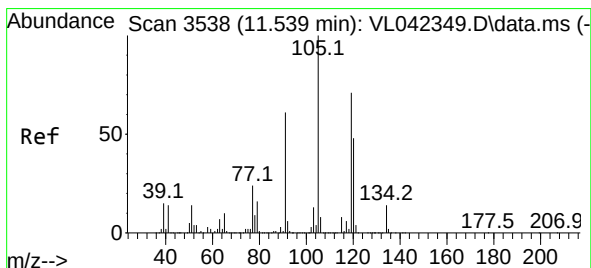
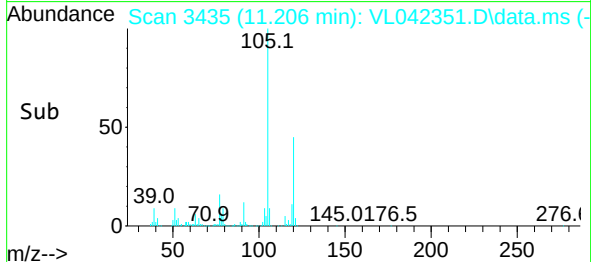
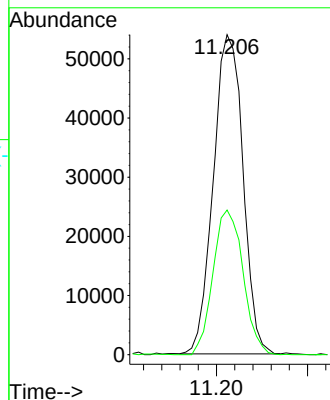
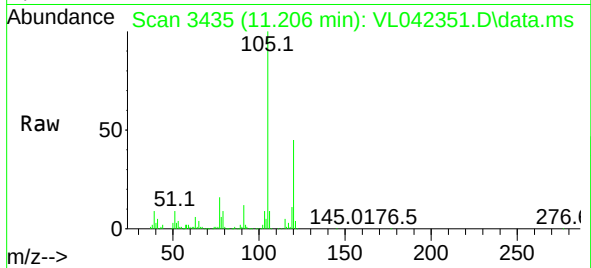
120 45.3 35.6 53.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#74

1,2,4-Trimethylbenzene

Concen: 1.108 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. 0.000 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Tgt Ion:105 Resp: 73888

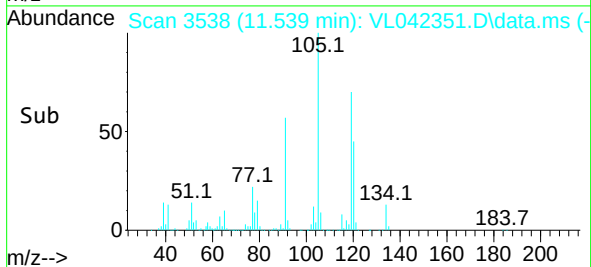
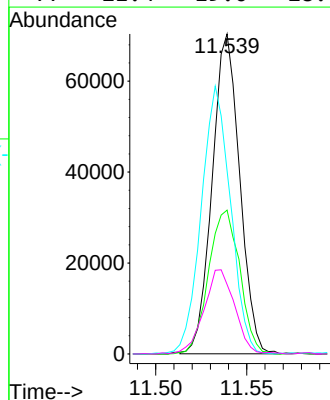
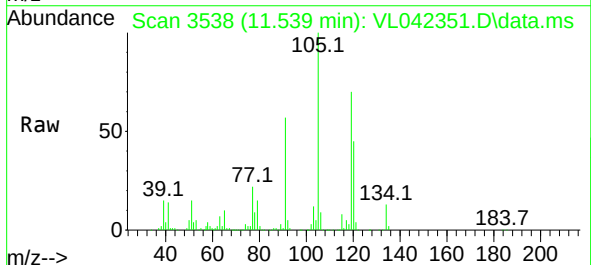
Ion Ratio Lower Upper

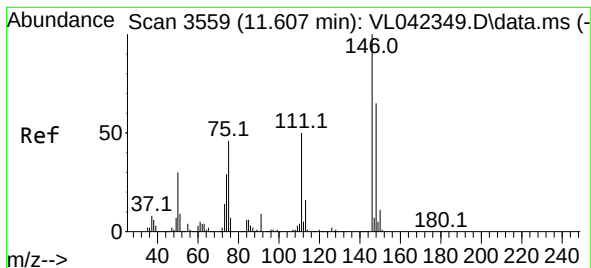
105 100

120 45.0 38.1 57.1

91 57.0 48.8 73.2

77 21.4 19.0 28.4





#75

1,3-Dichlorobenzene

Concen: 1.064 ppbv

RT: 11.610 min Scan# 3559

Delta R.T. 0.004 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA_L

ClientSampleId :

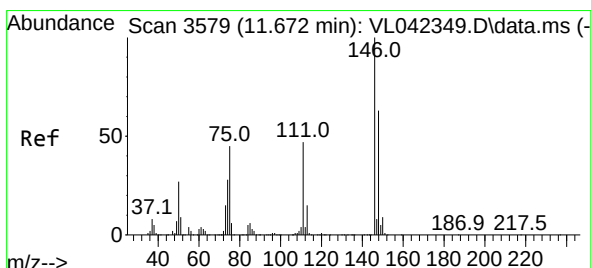
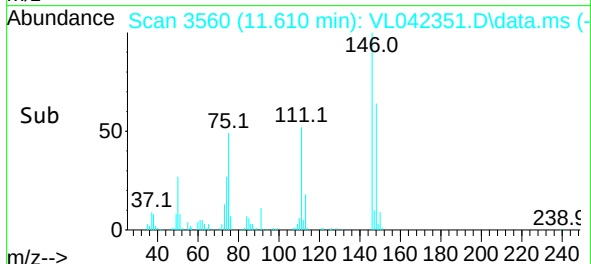
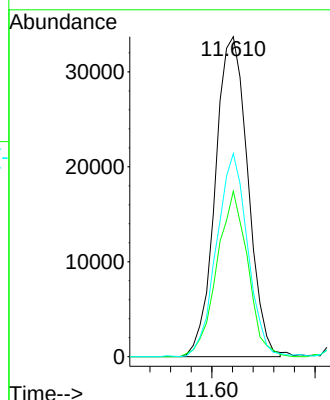
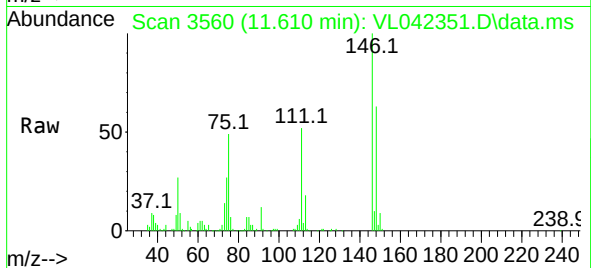
VSTDICC001

Tgt Ion:146	Resp:	3687
Ion Ratio	Lower	Upper
146	100	
111	48.9	24.3 72.8
148	60.8	31.6 94.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#76

1,4-Dichlorobenzene

Concen: 1.053 ppbv

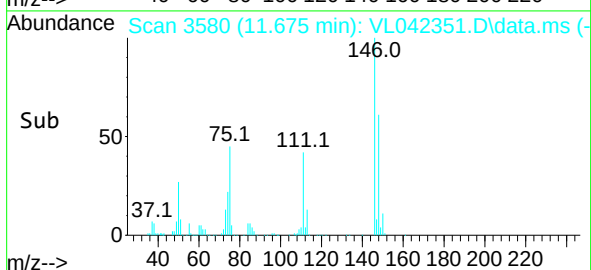
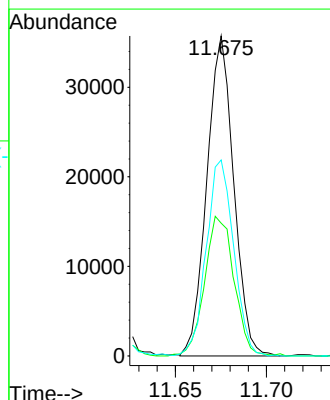
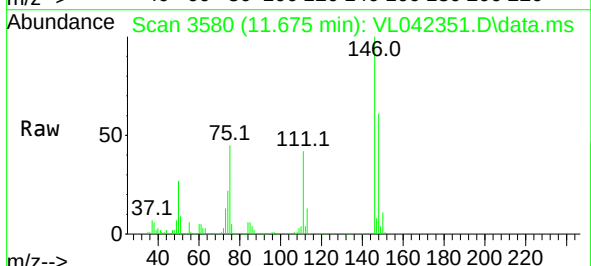
RT: 11.675 min Scan# 3580

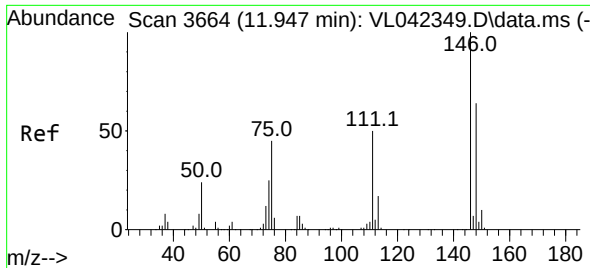
Delta R.T. 0.004 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

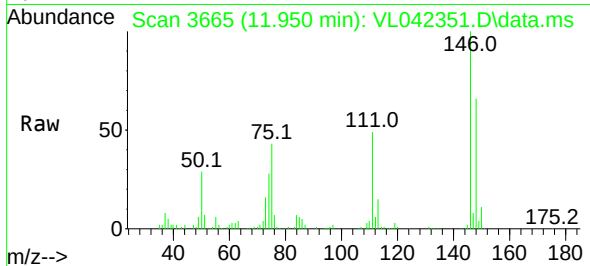
Tgt Ion:146	Resp:	36692
Ion Ratio	Lower	Upper
146	100	
111	47.7	24.2 72.6
148	62.3	32.1 96.5





#77
1,2-Dichlorobenzene
Concen: 1.068 ppbv
RT: 11.950 min Scan# 30
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

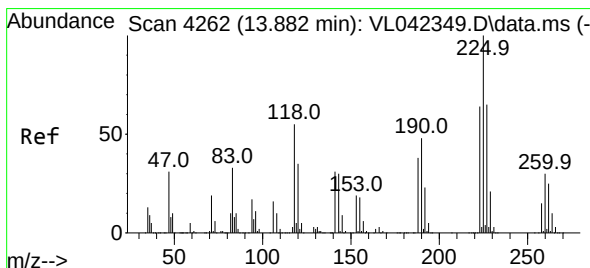
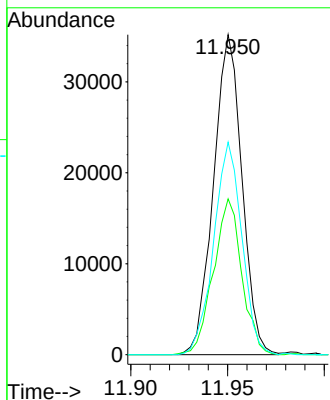
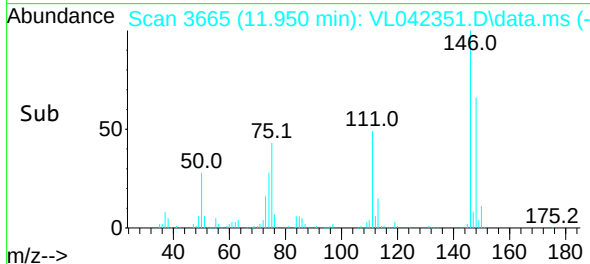
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



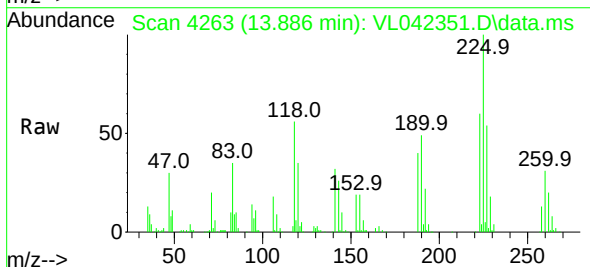
Tgt Ion:146 Resp: 3597
Ion Ratio Lower Upper
146 100
111 48.7 25.3 75.9
148 65.9 31.5 94.5

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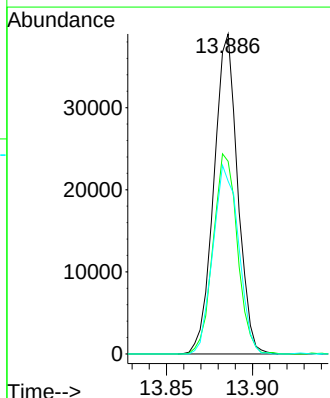
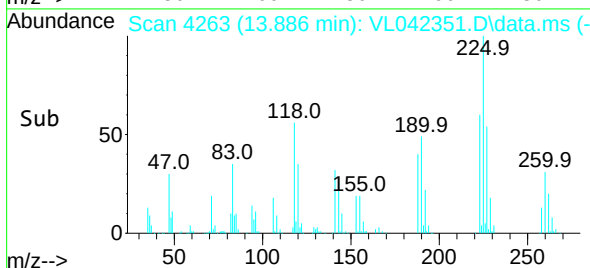
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

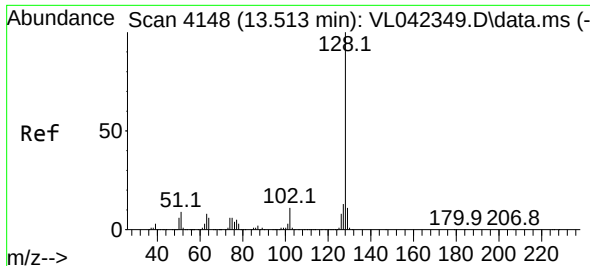


#78
Hexachloro-1,3-Butadiene
Concen: 1.098 ppbv
RT: 13.886 min Scan# 4263
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48



Tgt Ion:225 Resp: 37377
Ion Ratio Lower Upper
225 100
223 64.1 50.3 75.5
227 63.6 51.5 77.3





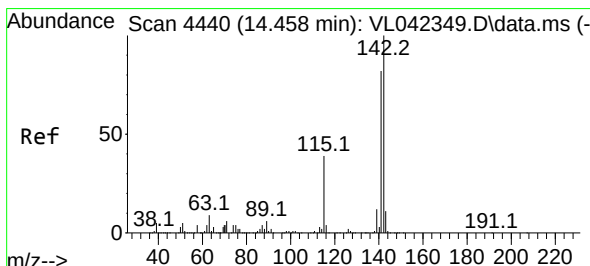
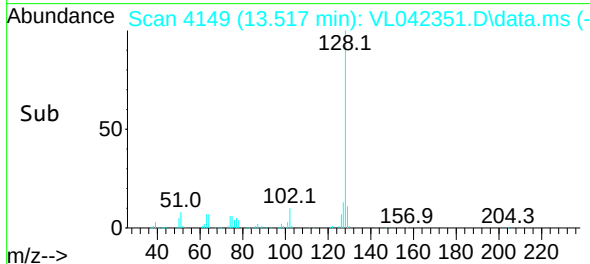
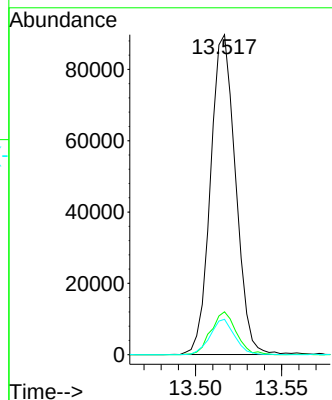
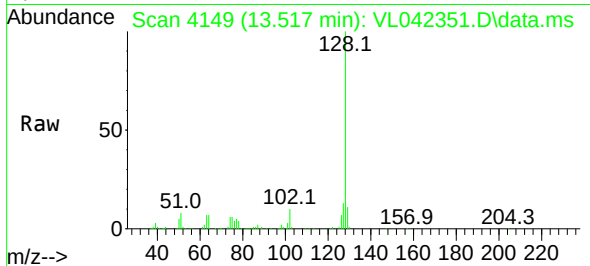
#79
Naphthalene
Concen: 1.138 ppbv
RT: 13.517 min Scan# 4148
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion:128 Resp: 90710
Ion Ratio Lower Upper
128 100
127 13.4 10.6 15.8
129 11.1 8.6 12.8

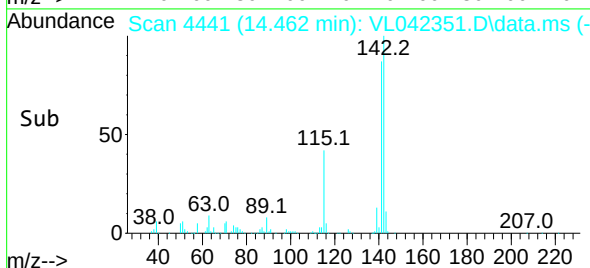
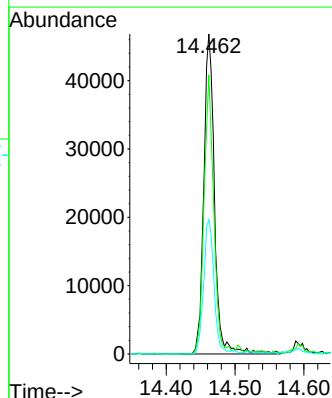
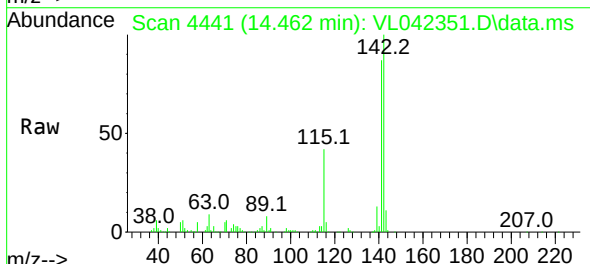
Manual Integrations
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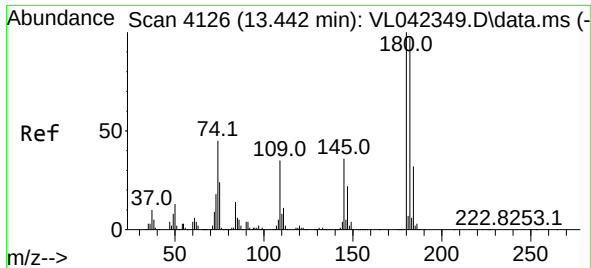
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#80
Naphthalene,2-methyl-
Concen: 1.111 ppbv
RT: 14.462 min Scan# 4441
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:142 Resp: 50487
Ion Ratio Lower Upper
142 100
141 80.9 66.8 100.2
115 41.2 33.4 50.2





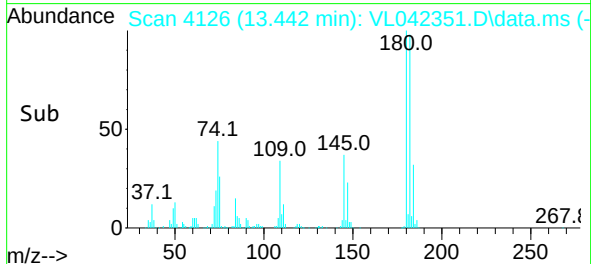
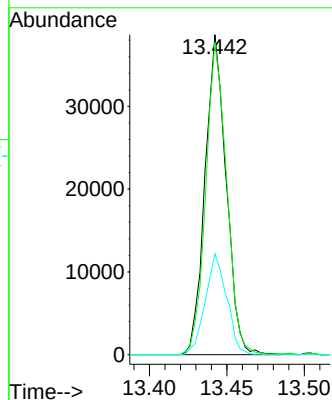
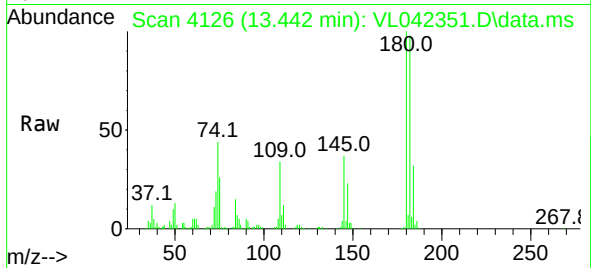
#81
 1,2,4-Trichlorobenzene
 Concen: 1.074 ppbv
 RT: 13.442 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.0	76.8	115.2
184	32.0	24.6	36.8

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042352.D
 Acq On : 17 Apr 2025 11:19
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 04/18/2025
 Supervised By : Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 01:28:45 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

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

QLast Update : Fri Apr 18 01:24:29 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	120542	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	353137	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	321644	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 265161 10.032 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	11036	0.518	ppbv	92
3) Chlorodifluoromethane	1.476	51	11304	0.557	ppbv #	84
4) Chloromethane	1.531	50	4534	0.538	ppbv	97
5) Vinyl Chloride	1.580	62	4406	0.480	ppbv	97
6) Bromomethane	1.667	94	2394	0.602	ppbv	95
7) Chloroethane	1.703	64	1824	0.550	ppbv #	87
8) Dichlorotetrafluoroethane	1.554	85	9381	0.513	ppbv	99
9) Propene	1.483	41	5303	0.574	ppbv	93
10) Heptane	4.978	43	14728m	0.593	ppbv	
11) Trichlorofluoromethane	1.877	101	10150	0.501	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.136	101	8371	0.506	ppbv	93
13) Ethanol	1.719	45	1656m	2.194	ppbv	
14) Bromoethene	1.780	108	3238	0.519	ppbv #	93
15) Acetone	1.835	43	11859	0.601	ppbv #	74
16) 1,3-Butadiene	1.609	39	6120	0.660	ppbv #	82
17) tert-Butyl alcohol	2.043	59	13640	0.558	ppbv #	85
18) 1,1-Dichloroethene	2.033	96	4430	0.556	ppbv #	87
19) Isopropyl Alcohol	1.884	45	6327	0.577	ppbv #	39
20) Methylene Chloride	2.059	84	5273	0.682	ppbv	93
21) Allyl Chloride	2.094	41	7692	0.565	ppbv #	81
22) trans-1,2-Dichloroethene	2.340	96	4908	0.557	ppbv	92
23) Vinyl Acetate	2.460	43	3953	0.495	ppbv #	57
24) 1,1-Dichloroethane	2.408	63	8753	0.523	ppbv #	94
25) Ethyl Acetate	2.835	43	26686	0.548	ppbv #	93
26) Hexane	2.823	57	11448	0.581	ppbv	91
27) Carbon Disulfide	2.149	76	11472	0.544	ppbv #	1
28) Methyl tert-Butyl Ether	2.441	73	6833	0.530	ppbv #	32
29) Chloroform	2.848	83	14815	0.532	ppbv	93
30) Cyclohexane	3.852	84	8572	0.541	ppbv	94
31) cis-1,2-Dichloroethene	2.722	61	9571	0.511	ppbv	96
32) 1,1,1-Trichloroethane	3.370	97	15413	0.516	ppbv	97
34) 2-Butanone	2.560	43	15640	0.560	ppbv	97
35) Carbon Tetrachloride	3.761	117	14683	0.459	ppbv	87
36) Benzene	3.651	78	20233	0.531	ppbv	97
37) 1,2-Dichloroethane	3.217	62	12194	0.533	ppbv #	95
38) Trichloroethene	4.551	130	7819	0.468	ppbv #	78
39) 1,2-Dichloropropane	4.308	63	7790m	0.548	ppbv	
40) 1,4-Dioxane	4.599	88	4637m	0.603	ppbv	
41) Tetrahydrofuran	3.062	42	9144m	0.567	ppbv	
42) Bromodichloromethane	4.489	83	16642	0.523	ppbv #	91
43) Methyl Methacrylate	4.881	69	9620m	0.563	ppbv	
44) 2,2,4-Trimethylpentane	4.635	57	34170	0.519	ppbv	91
45) t-1,3-Dichloropropene	6.415	75	9073m	0.517	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042352.D
 Acq On : 17 Apr 2025 11:19
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 01:28:45 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

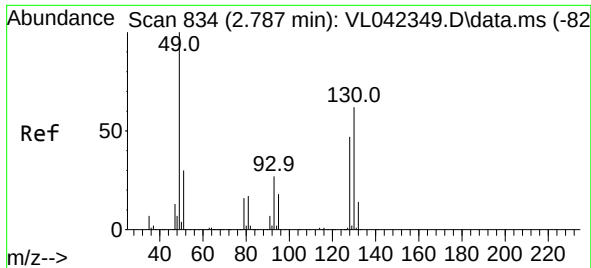
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Fri Apr 18 01:24:29 2025

Response via : Initial Calibration

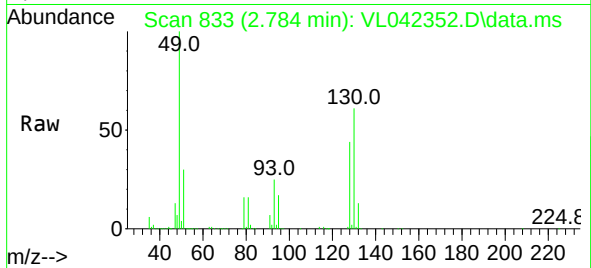
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.596	75	10827m	0.505	ppbv	
47) 1,1,2-Trichloroethane	6.577	97	7466m	0.516	ppbv	
48) Dibromochloromethane	7.386	129	13122	0.514	ppbv	97
49) Bromoform	9.477	173	10988	0.492	ppbv	99
50) 4-Methyl-2-Pentanone	5.761	43	27206m	0.585	ppbv	
51) 2-Hexanone	7.441	43	23684	0.564	ppbv	98
52) Tetrachloroethene	8.221	164	7412	0.503	ppbv #	88
53) Toluene	6.927	91	24200	0.529	ppbv	97
54) 1,2-Dibromoethane	7.645	107	10282	0.499	ppbv	84
56) 1,1,1,2-Tetrachloroethane	8.930	131	9987	0.513	ppbv #	1
57) Chlorobenzene	8.917	112	18149m	0.543	ppbv	
58) Ethyl Benzene	9.351	91	32624	0.512	ppbv	97
59) m/p-Xylene	9.532	91	54197m	1.053	ppbv	
60) o-Xylene	9.963	91	27983	0.541	ppbv	99
61) Styrene	9.869	104	12736	0.516	ppbv	96
62) Isopropylbenzene	10.539	105	40481	0.533	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.959	83	15920	0.474	ppbv	99
64) n-propylbenzene	10.985	120	10369	0.544	ppbv	97
65) tert-Butylbenzene	11.529	119	37294	0.535	ppbv	93
66) Benzyl Chloride	11.613	91	3878	0.506	ppbv #	91
67) sec-Butylbenzene	11.765	105	52139	0.537	ppbv	97
69) p-Isopropyltoluene	11.924	119	45574	0.541	ppbv	98
70) n-Butylbenzene	12.280	91	48004	0.547	ppbv	99
71) 2-Chlorotoluene	10.898	91	31709	0.533	ppbv	100
72) 4-Ethyltoluene	11.125	105	33048	0.523	ppbv #	95
73) 1,3,5-Trimethylbenzene	11.202	105	30464	0.546	ppbv	99
74) 1,2,4-Trimethylbenzene	11.536	105	37765	0.579	ppbv #	90
75) 1,3-Dichlorobenzene	11.607	146	18003	0.531	ppbv	99
76) 1,4-Dichlorobenzene	11.668	146	18300	0.537	ppbv	96
77) 1,2-Dichlorobenzene	11.947	146	17446	0.530	ppbv	95
78) Hexachloro-1,3-Butadiene	13.879	225	18705	0.562	ppbv	98
79) Naphthalene	13.513	128	38521	0.494	ppbv #	92
80) Naphthalene,2-methyl-	14.458	142	21076	0.475	ppbv	96
81) 1,2,4-Trichlorobenzene	13.442	180	16504	0.493	ppbv	97

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

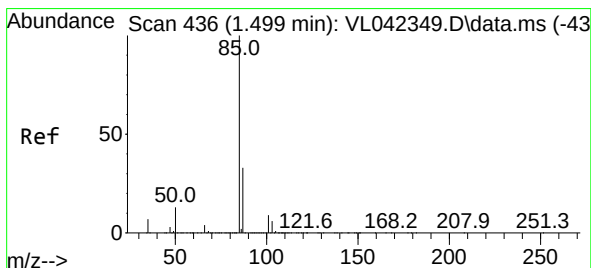
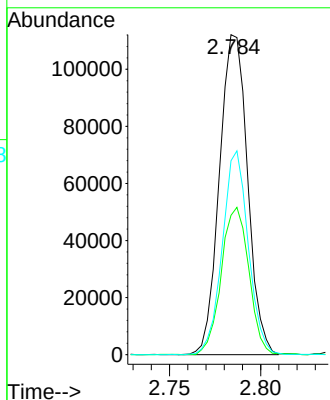
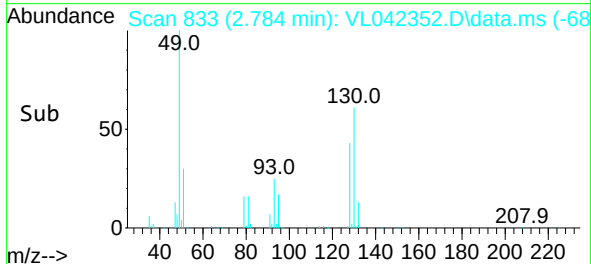
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



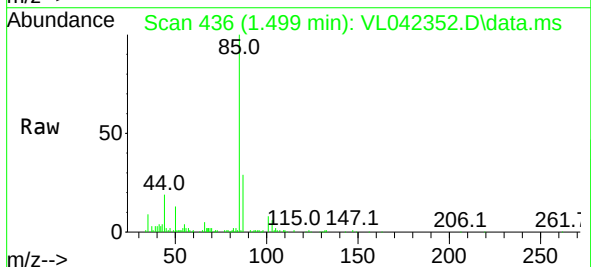
Tgt Ion: 49 Resp: 12054
Ion Ratio Lower Upper
49 100
128 45.3 22.8 68.4
130 59.0 29.3 88.0

Manual Integrations
APPROVED

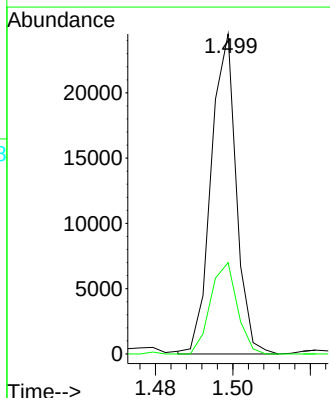
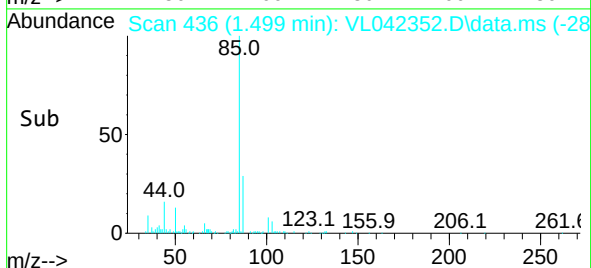
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

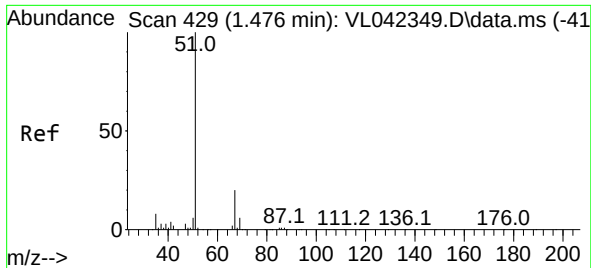


#2
Dichlorodifluoromethane
Concen: 0.518 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19



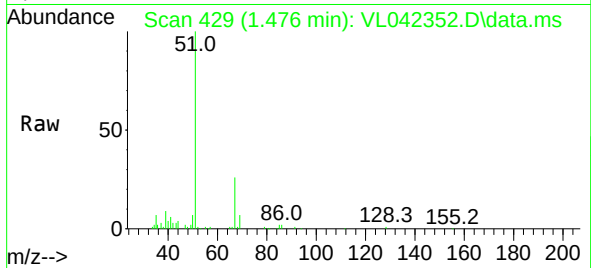
Tgt Ion: 85 Resp: 11036
Ion Ratio Lower Upper
85 100
87 28.6 26.6 39.8





#3
Chlorodifluoromethane
Concen: 0.557 ppbv
RT: 1.476 min Scan# 429
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

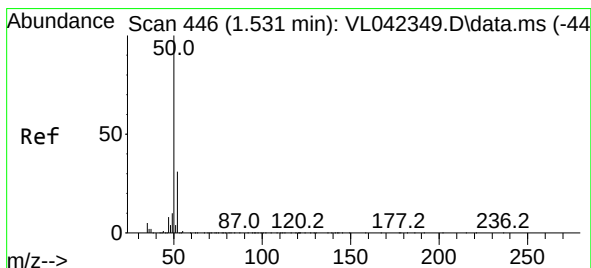
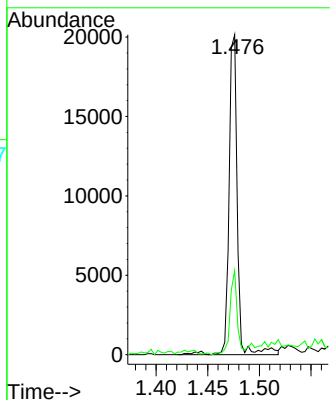
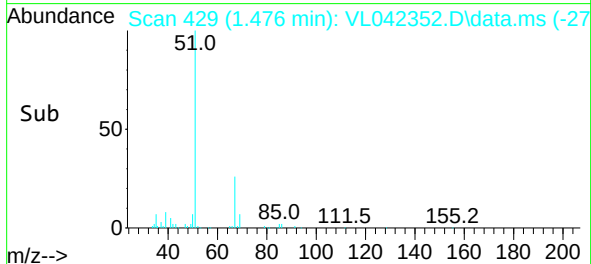
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



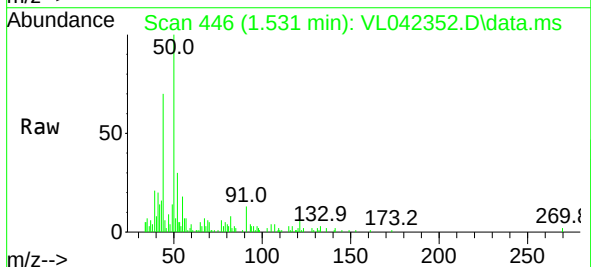
Tgt Ion: 51 Resp: 11304
Ion Ratio Lower Upper
51 100
67 27.8 16.2 24.4

Manual Integrations
APPROVED

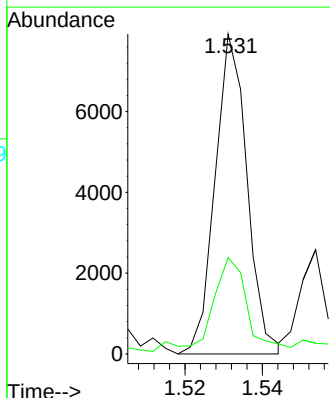
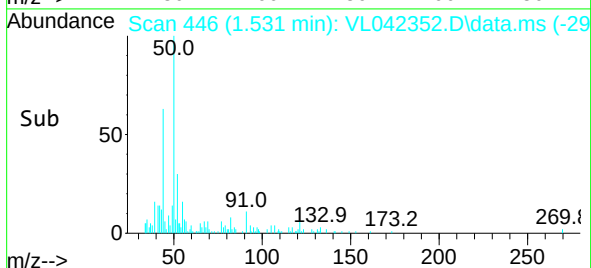
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

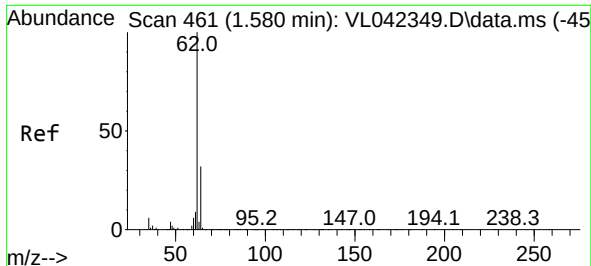


#4
Chloromethane
Concen: 0.538 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19



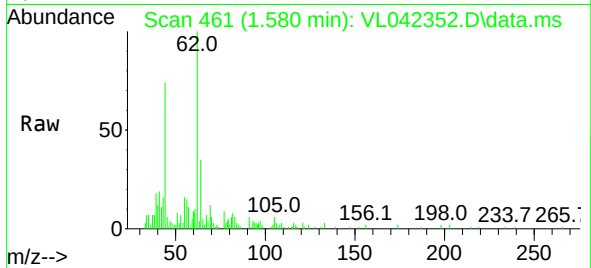
Tgt Ion: 50 Resp: 4534
Ion Ratio Lower Upper
50 100
52 32.8 24.7 37.1





#5
 Vinyl Chloride
 Concen: 0.480 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. -0.000 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19

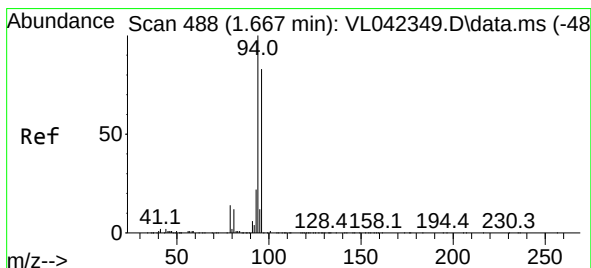
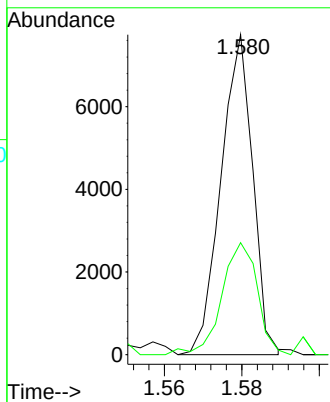
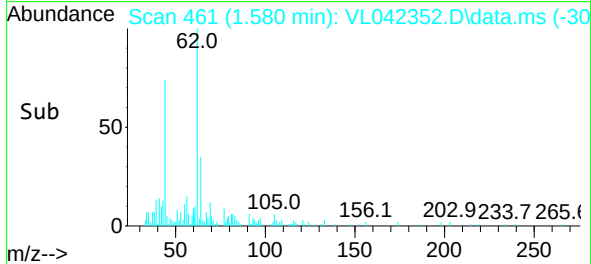
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



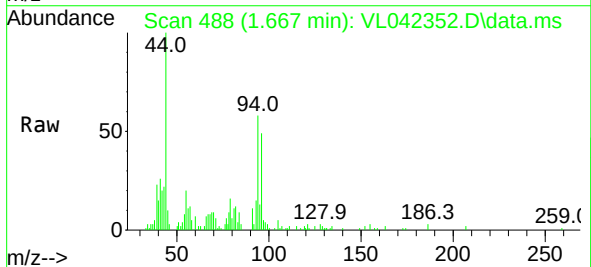
Tgt Ion: 62 Resp: 4400
 Ion Ratio Lower Upper
 62 100
 64 33.5 25.4 38.0

Manual Integrations
 APPROVED

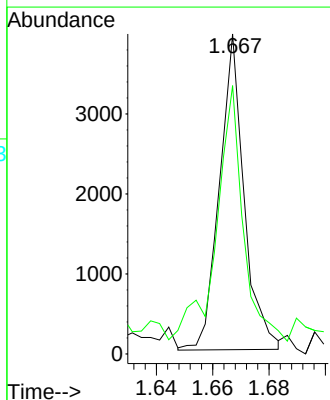
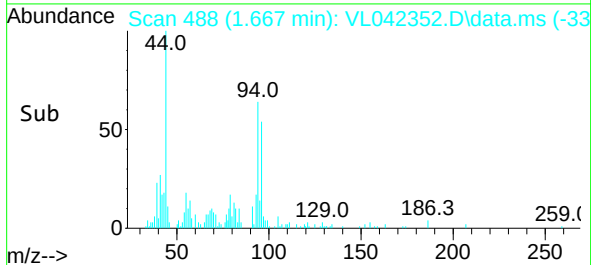
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

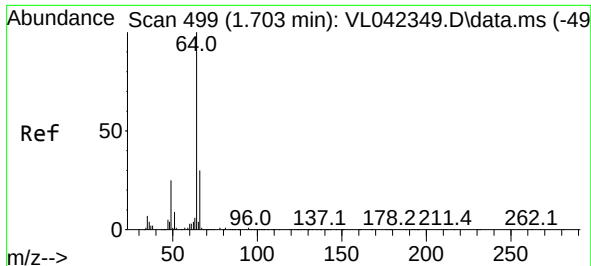


#6
 Bromomethane
 Concen: 0.602 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. -0.000 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19



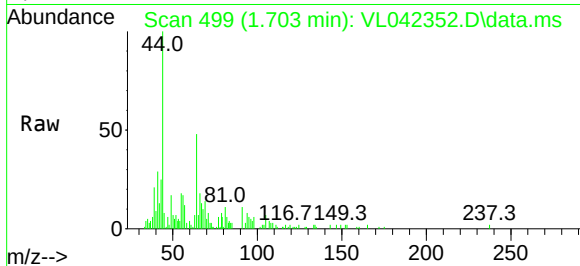
Tgt Ion: 94 Resp: 2394
 Ion Ratio Lower Upper
 94 100
 96 78.1 66.2 99.2





#7
Chloroethane
Concen: 0.550 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

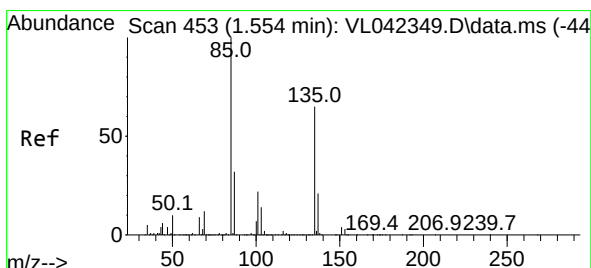
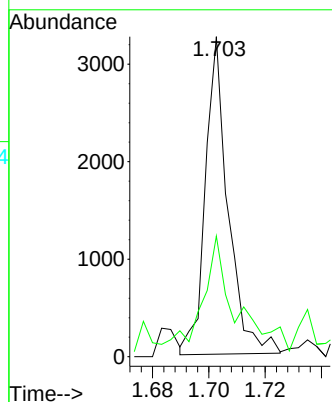
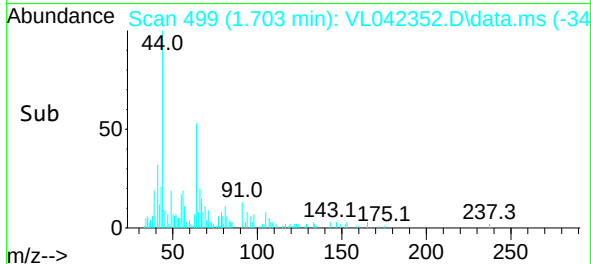
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



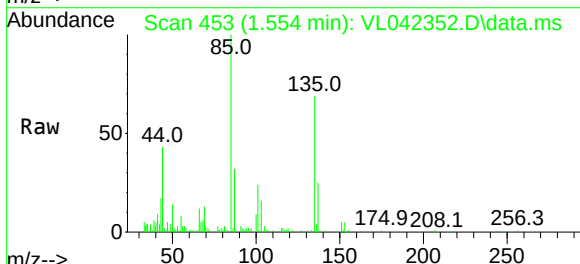
Tgt Ion: 64 Resp: 1824
Ion Ratio Lower Upper
64 100
66 37.7 24.6 37.0

Manual Integrations
APPROVED

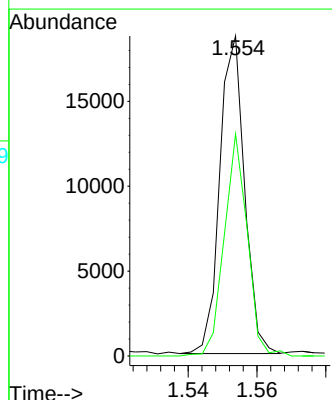
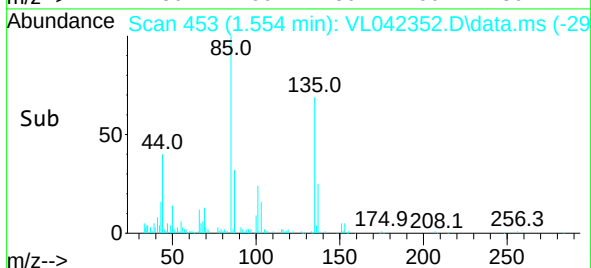
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

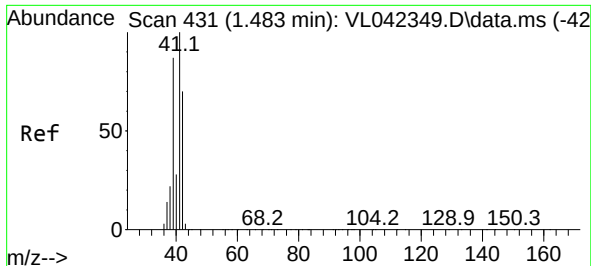


#8
Dichlorotetrafluoroethane
Concen: 0.513 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19



Tgt Ion: 85 Resp: 9381
Ion Ratio Lower Upper
85 100
135 66.2 52.2 78.2





#9

Propene

Concen: 0.574 ppbv

RT: 1.483 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5

Tgt Ion: 41 Resp: 530

Ion Ratio Lower Upper

41 100

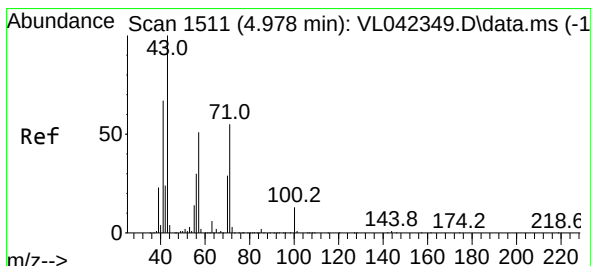
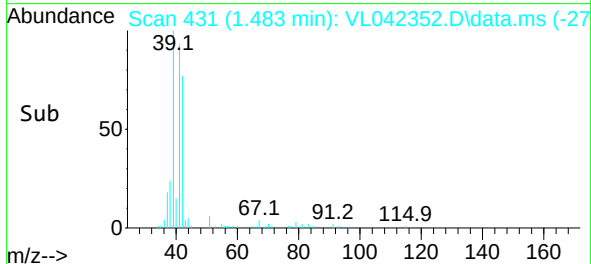
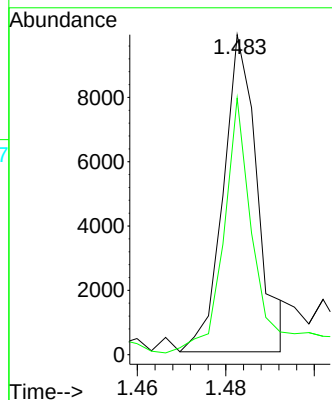
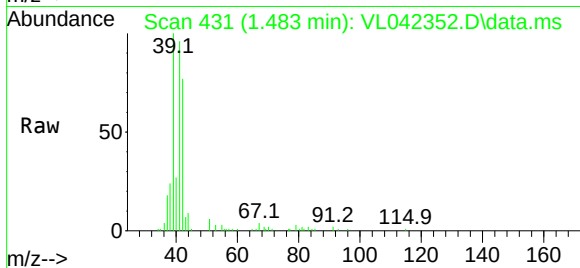
42 64.8 56.2 84.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#10

Heptane

Concen: 0.593 ppbv m

RT: 4.978 min Scan# 1511

Delta R.T. -0.000 min

Lab File: VL042352.D

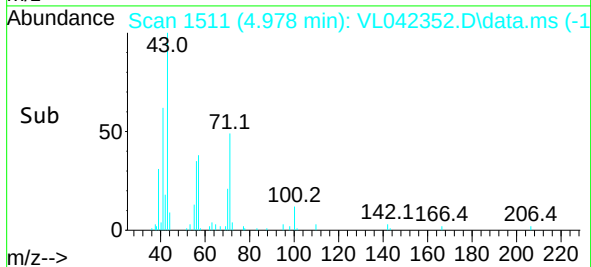
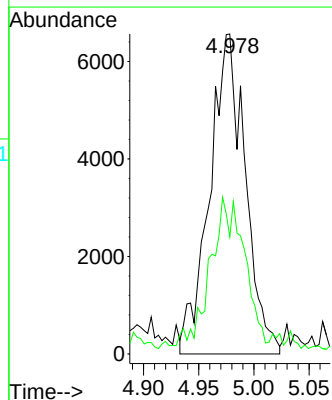
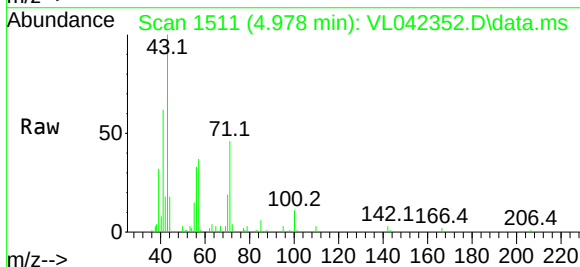
Acq: 17 Apr 2025 11:19

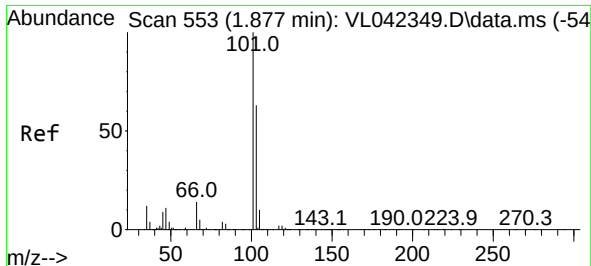
Tgt Ion: 43 Resp: 14728

Ion Ratio Lower Upper

43 100

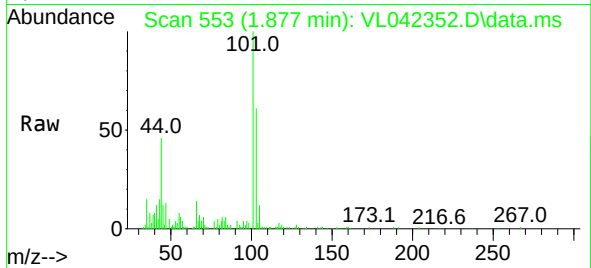
57 51.1 39.9 59.9





#11
Trichlorofluoromethane
Concen: 0.501 ppbv
RT: 1.877 min Scan# 553
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

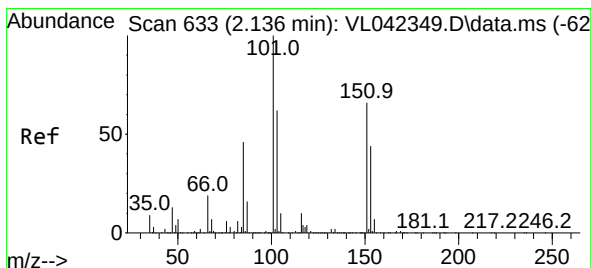
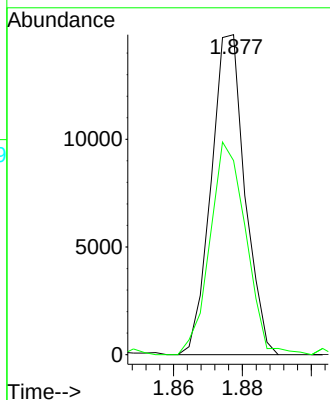
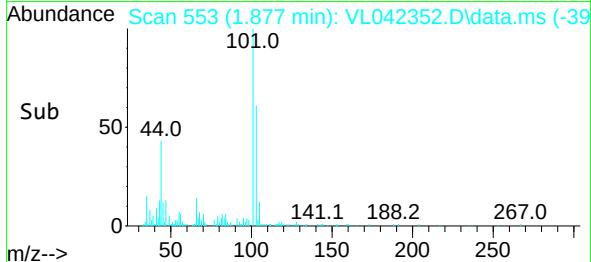
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



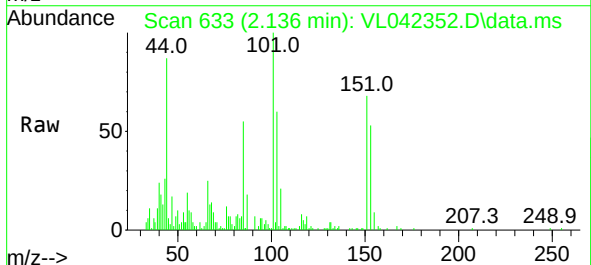
Tgt Ion:101 Resp: 10150
Ion Ratio Lower Upper
101 100
103 60.6 50.1 75.1

Manual Integrations
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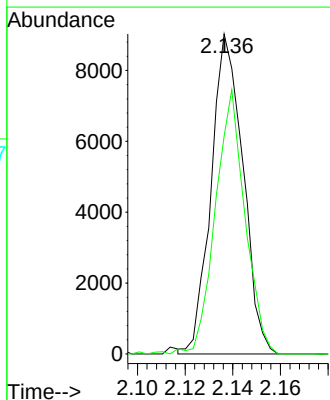
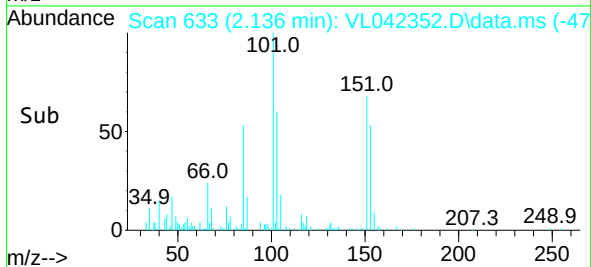
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

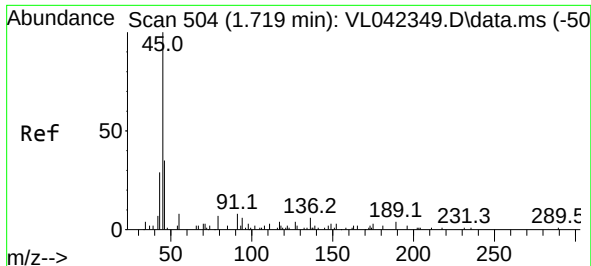


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.506 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19



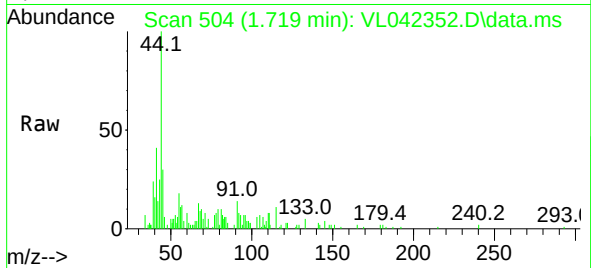
Tgt Ion:101 Resp: 8371
Ion Ratio Lower Upper
101 100
151 77.4 57.0 85.6





#13
Ethanol
Concen: 2.194 ppbv m
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

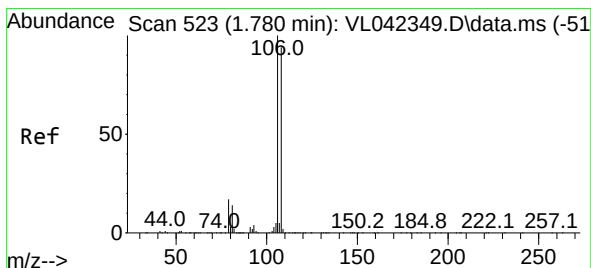
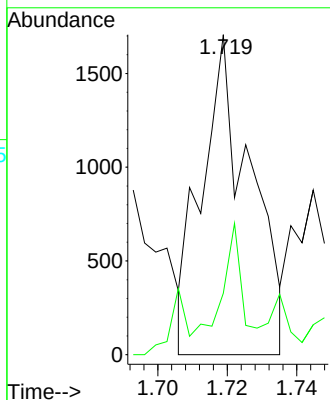
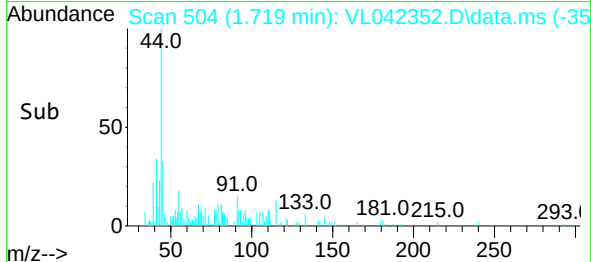
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



Tgt Ion: 45 Resp: 1650
Ion Ratio Lower Upper
45 100
46 0.0 21.9 87.7

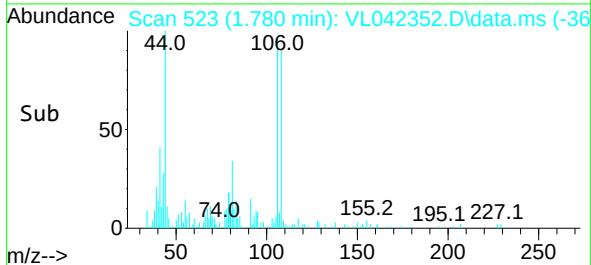
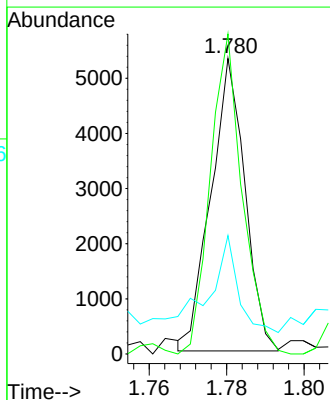
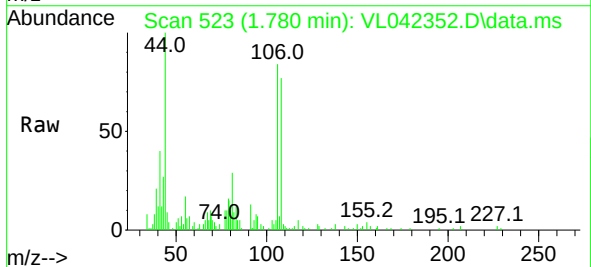
Manual Integrations
APPROVED

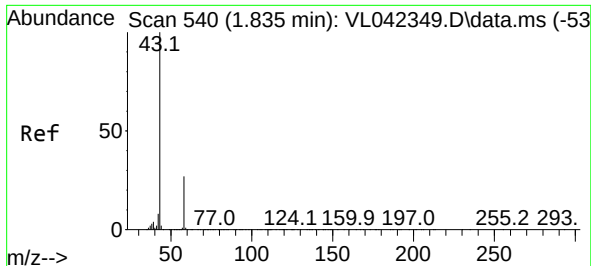
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#14
Bromoethene
Concen: 0.519 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

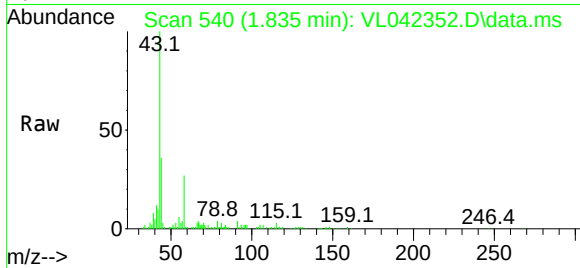
Tgt Ion:108 Resp: 3238
Ion Ratio Lower Upper
108 100
106 110.3 85.9 128.9
79 33.0 13.9 20.9





#15
Acetone
Concen: 0.601 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

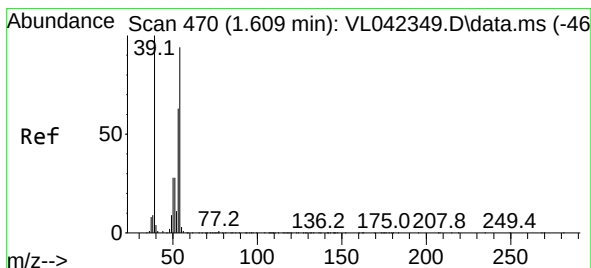
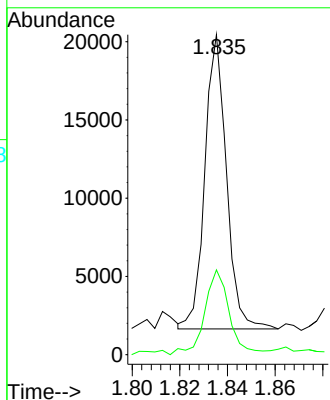
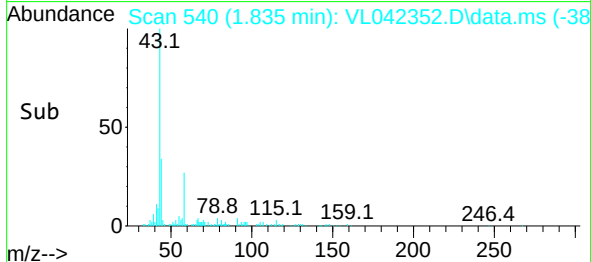
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



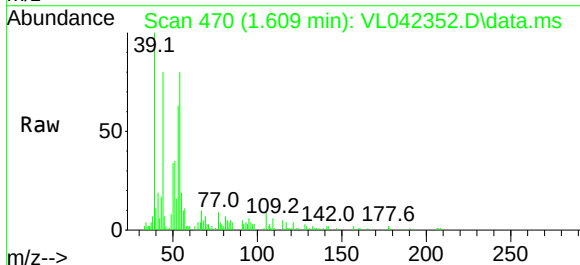
Tgt Ion: 43 Resp: 11859
Ion Ratio Lower Upper
43 100
58 41.7 22.4 33.6

Manual Integrations
APPROVED

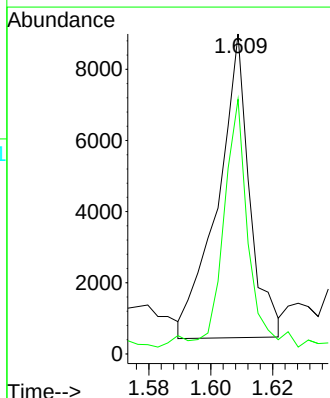
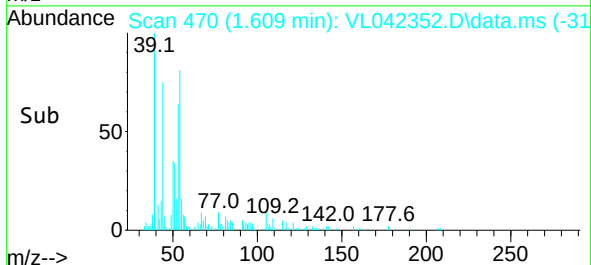
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

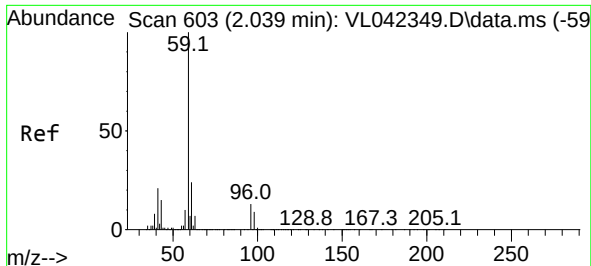


#16
1,3-Butadiene
Concen: 0.660 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19



Tgt Ion: 39 Resp: 6120
Ion Ratio Lower Upper
39 100
54 64.7 64.9 97.3





#17

tert-Butyl alcohol

Concen: 0.558 ppbv

RT: 2.043 min Scan# 603

Delta R.T. 0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 59 Resp: 13640

Ion Ratio Lower Upper

59 100

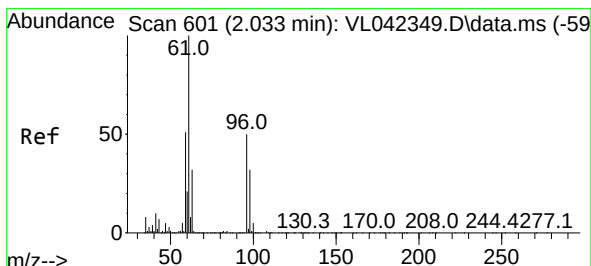
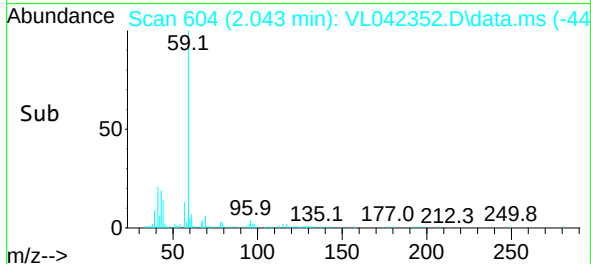
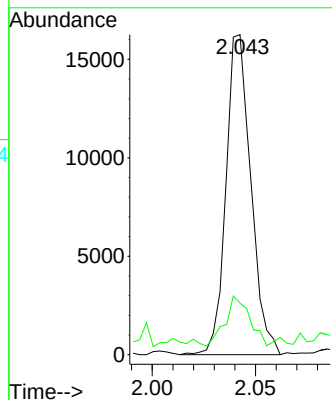
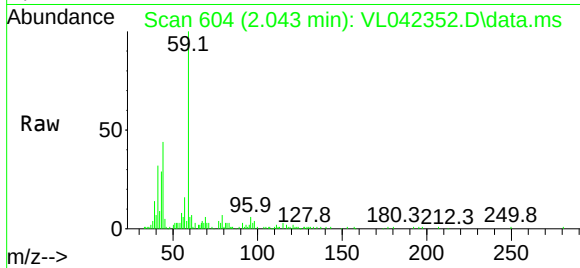
57 16.5 8.7 13.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#18

1,1-Dichloroethene

Concen: 0.556 ppbv

RT: 2.033 min Scan# 601

Delta R.T. -0.000 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

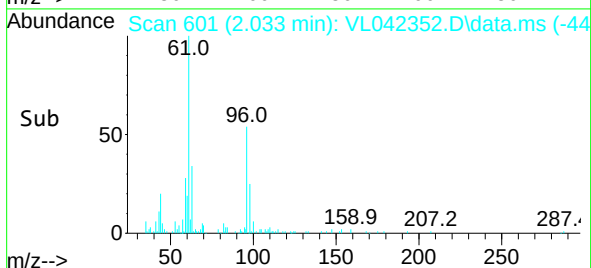
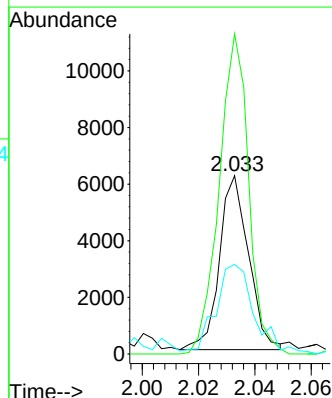
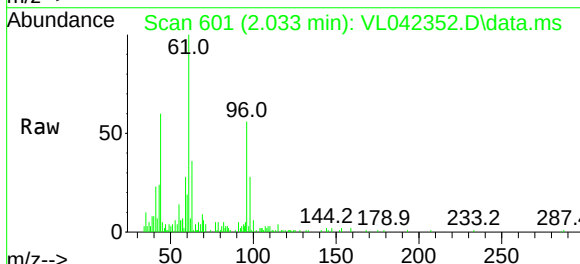
Tgt Ion: 96 Resp: 4430

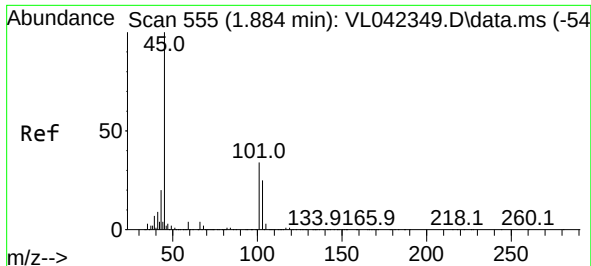
Ion Ratio Lower Upper

96 100

61 183.9 160.2 240.2

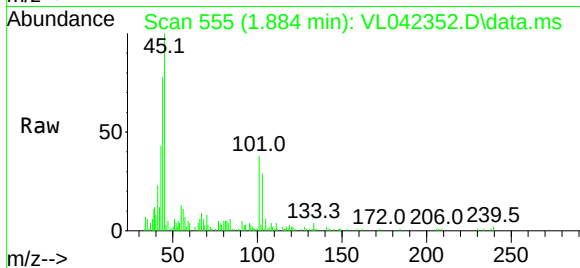
98 49.7 51.0 76.4





#19
Isopropyl Alcohol
Concen: 0.577 ppbv
RT: 1.884 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

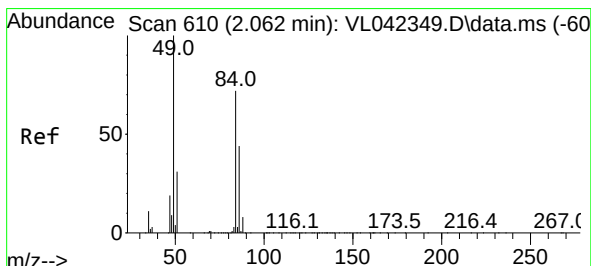
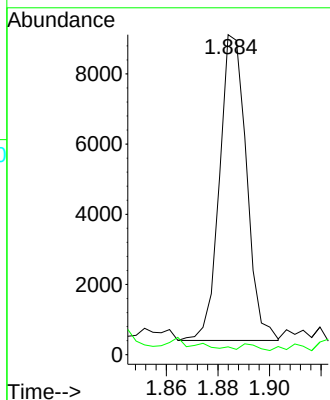
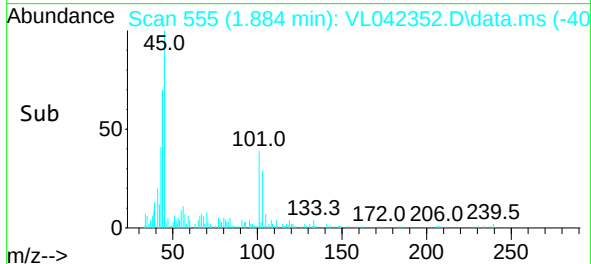
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



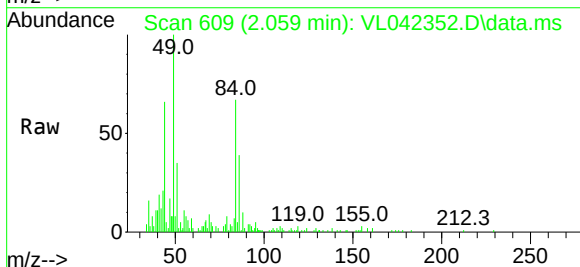
Tgt Ion: 45 Resp: 632
Ion Ratio Lower Upper
45 100
58 3.8 34.5 51.7

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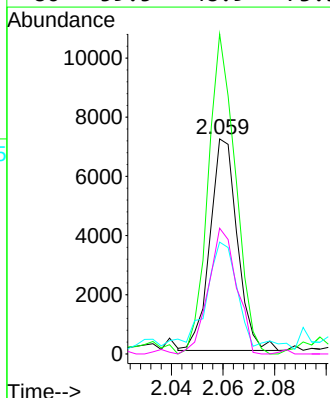
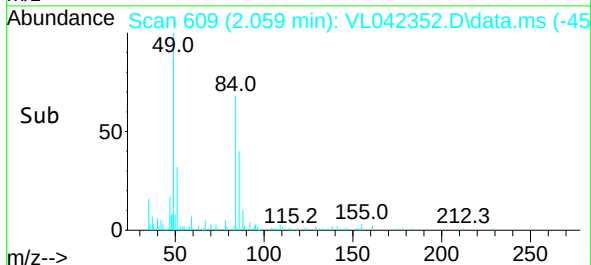
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

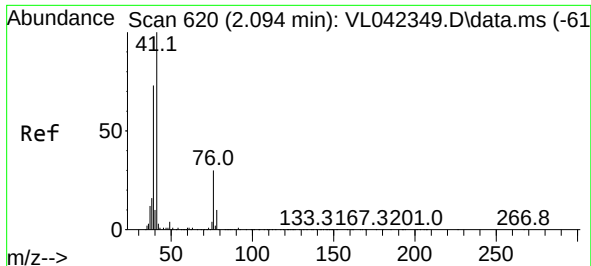


#20
Methylene Chloride
Concen: 0.682 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19



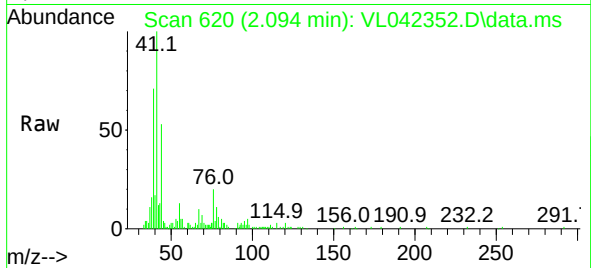
Tgt Ion: 84 Resp: 5273
Ion Ratio Lower Upper
84 100
49 151.3 111.6 167.4
51 48.1 35.1 52.7
86 59.5 48.9 73.3





#21
 Allyl Chloride
 Concen: 0.565 ppbv
 RT: 2.094 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19

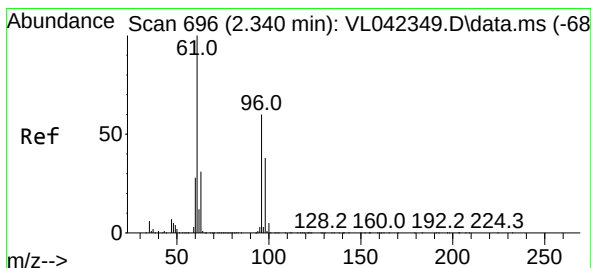
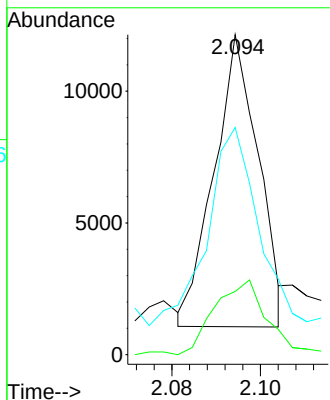
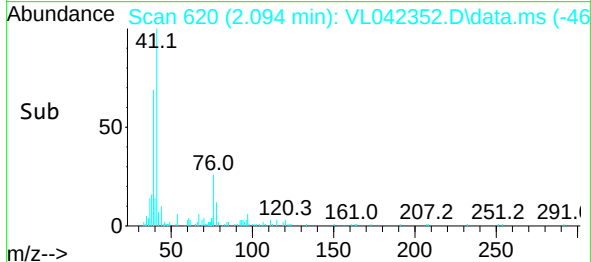
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



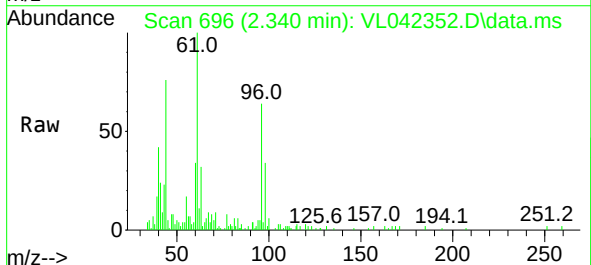
Tgt Ion: 41 Resp: 7692
 Ion Ratio Lower Upper
 41 100
 76 31.1 24.8 37.2
 39 98.8 60.6 90.8

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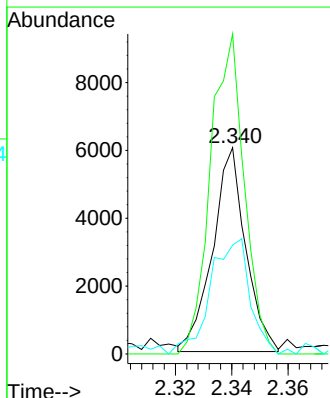
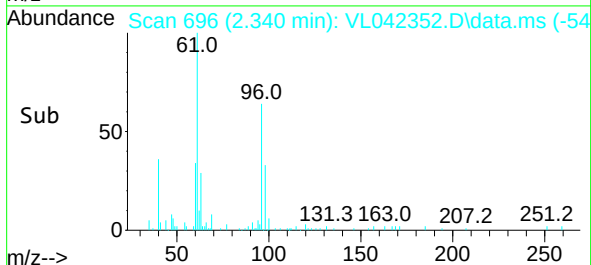
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

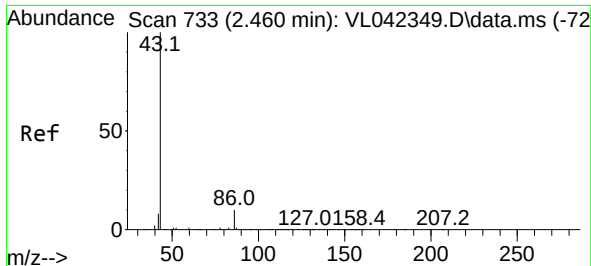


#22
 trans-1,2-Dichloroethene
 Concen: 0.557 ppbv
 RT: 2.340 min Scan# 696
 Delta R.T. -0.000 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19



Tgt Ion: 96 Resp: 4908
 Ion Ratio Lower Upper
 96 100
 61 158.7 133.7 200.5
 98 54.0 50.3 75.5





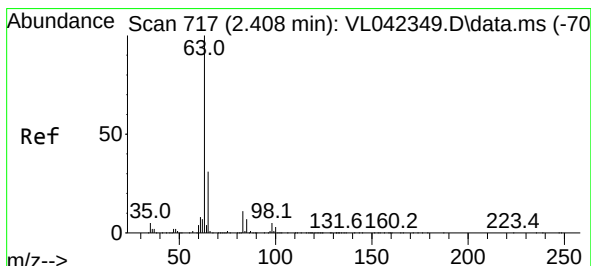
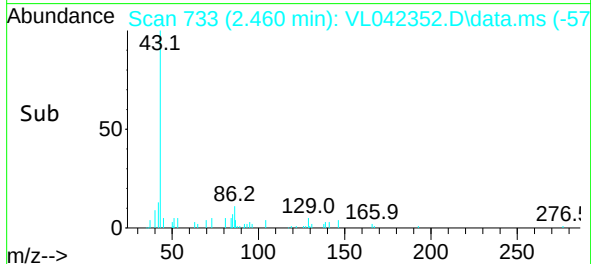
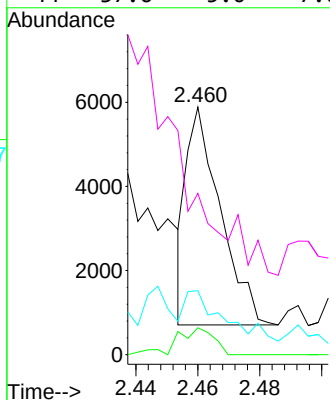
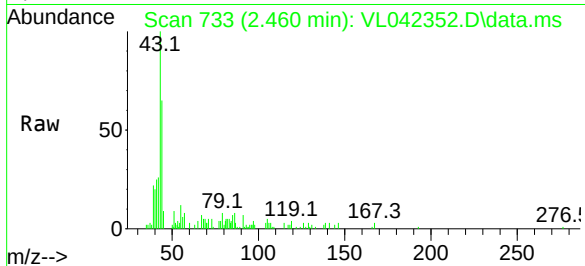
#23
 Vinyl Acetate
 Concen: 0.495 ppbv
 RT: 2.460 min Scan# 717
 Delta R.T. -0.000 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion: 43 Resp: 395
 Ion Ratio Lower Upper
 43 100
 86 12.4 6.5 9.7
 42 23.2 7.8 11.8
 44 37.6 5.0 7.6

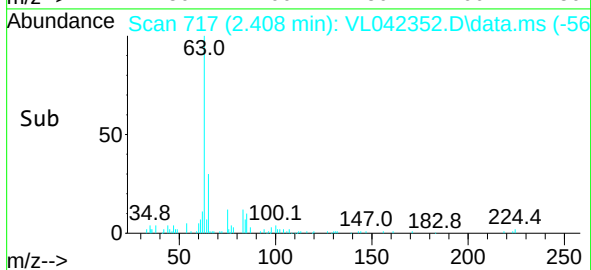
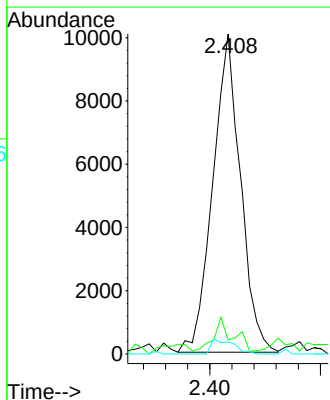
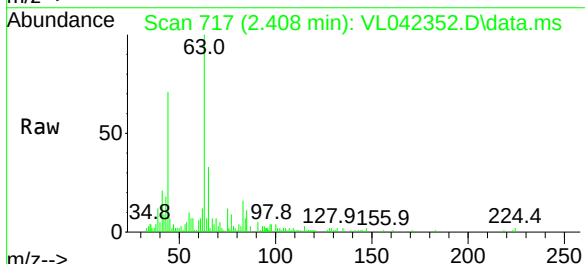
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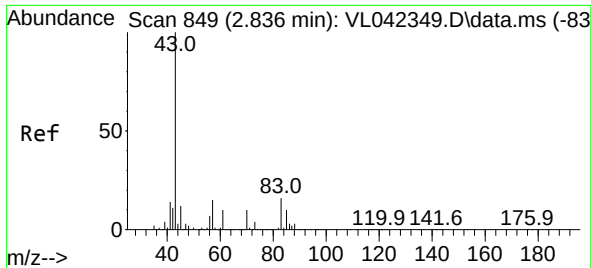
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#24
 1,1-Dichloroethane
 Concen: 0.523 ppbv
 RT: 2.408 min Scan# 717
 Delta R.T. -0.000 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19

Tgt Ion: 63 Resp: 8753
 Ion Ratio Lower Upper
 63 100
 98 1.4 2.3 6.8
 100 3.8 1.6 4.8





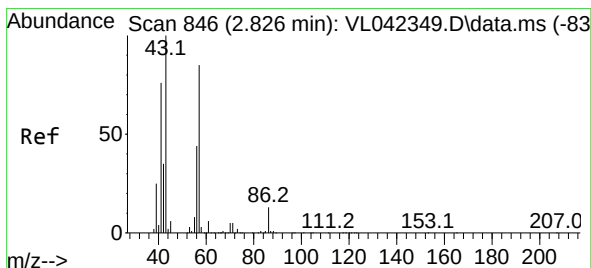
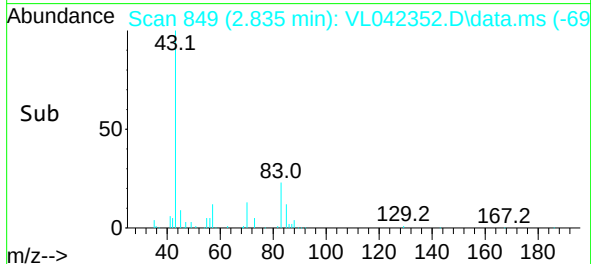
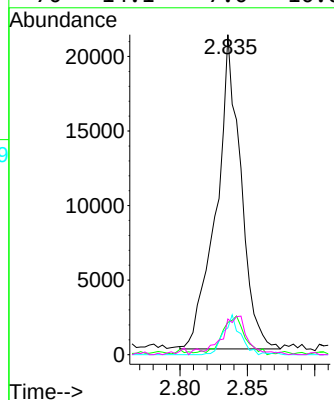
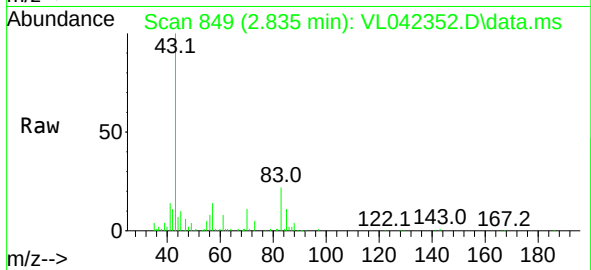
#25
Ethyl Acetate
Concen: 0.548 ppbv
RT: 2.835 min Scan# 849
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion:	43	Resp:	26680
Ion Ratio	Lower	Upper	
43	100		
45	13.3	8.3	12.5
61	9.0	7.3	10.9
70	14.1	7.0	10.6

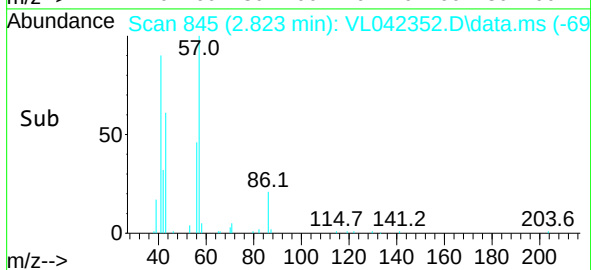
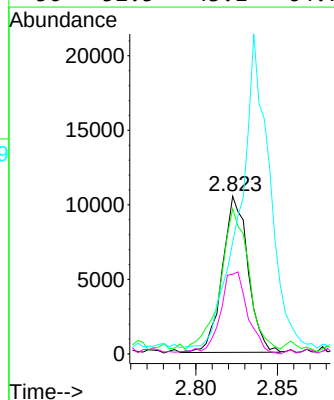
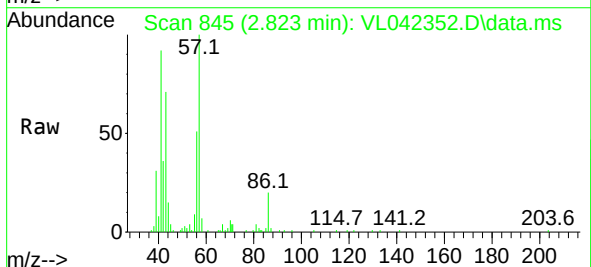
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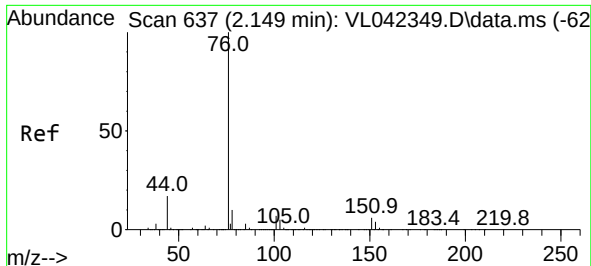
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#26
Hexane
Concen: 0.581 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

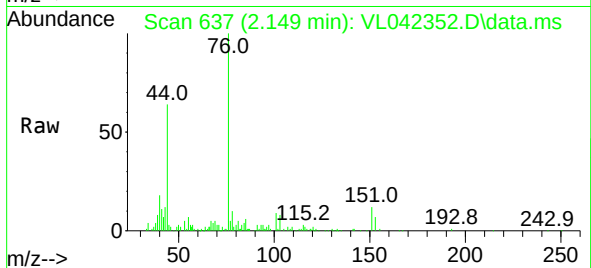
Tgt Ion:	57	Resp:	11448
Ion Ratio	Lower	Upper	
57	100		
41	103.5	77.9	116.9
43	240.0	208.4	312.6
56	52.5	43.1	64.7





#27
Carbon Disulfide
Concen: 0.544 ppbv
RT: 2.149 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

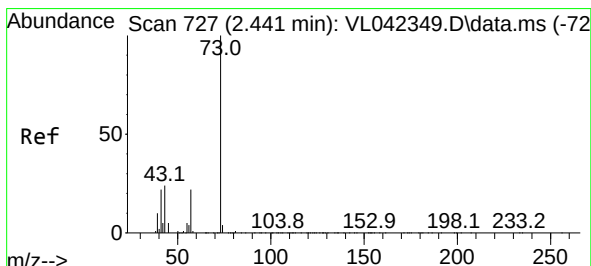
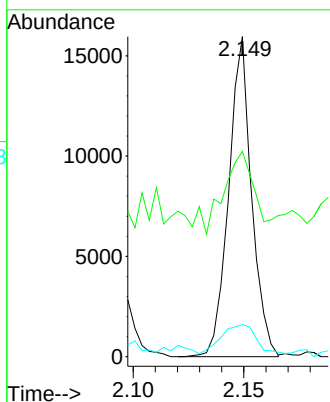
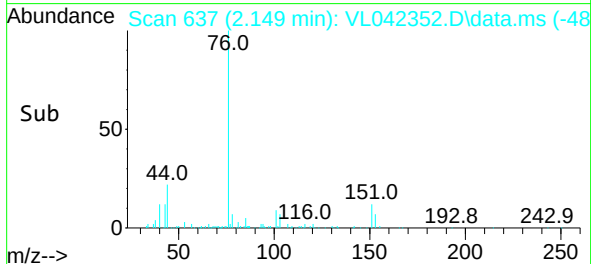
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



Tgt Ion: 76 Resp: 11472
Ion Ratio Lower Upper
76 100
44 123.7 15.5 23.3
78 18.8 9.3 13.9

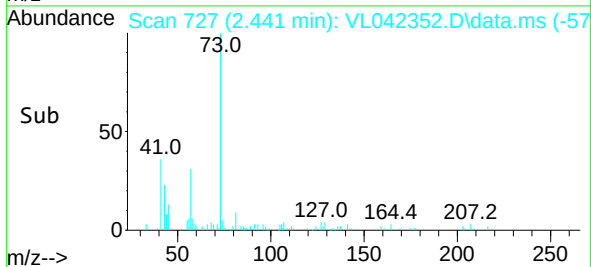
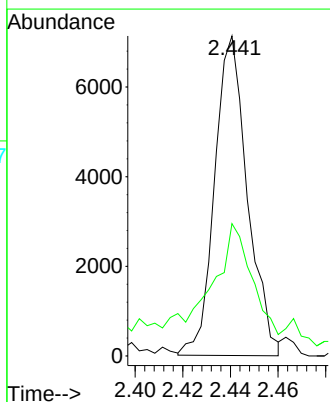
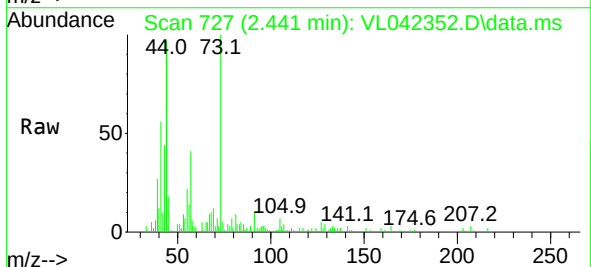
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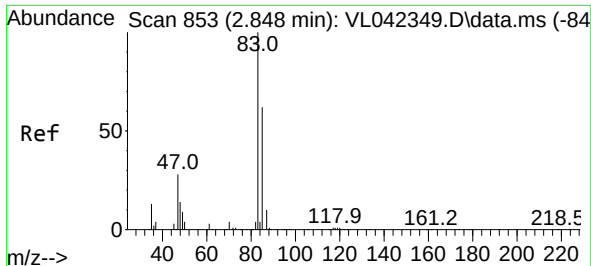
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#28
Methyl tert-Butyl Ether
Concen: 0.530 ppbv
RT: 2.441 min Scan# 727
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 73 Resp: 6833
Ion Ratio Lower Upper
73 100
57 61.8 21.3 31.9





#29

Chloroform

Concen: 0.532 ppbv

RT: 2.848 min Scan# 853

Delta R.T. -0.000 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5

Tgt Ion: 83 Resp: 1481

Ion Ratio Lower Upper

83 100

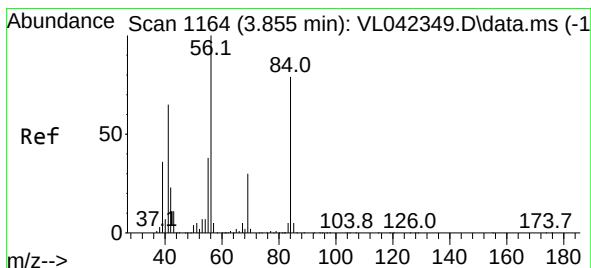
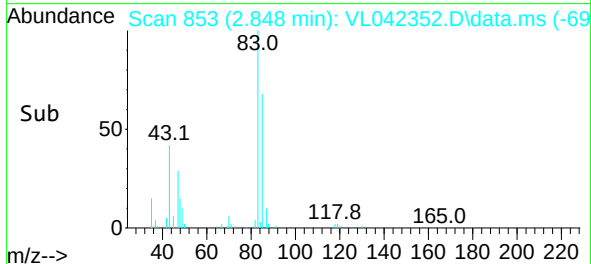
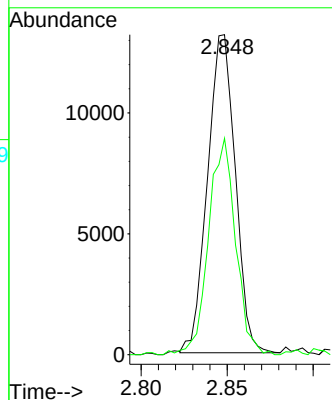
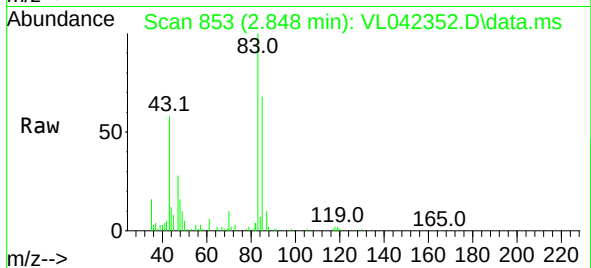
85 68.0 50.0 75.0

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Supervised By :Mahesh Dadoda 04/18/2025



#30

Cyclohexane

Concen: 0.541 ppbv

RT: 3.852 min Scan# 1163

Delta R.T. -0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

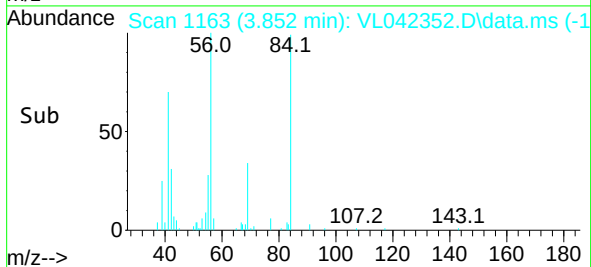
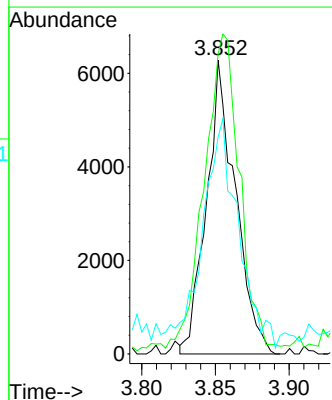
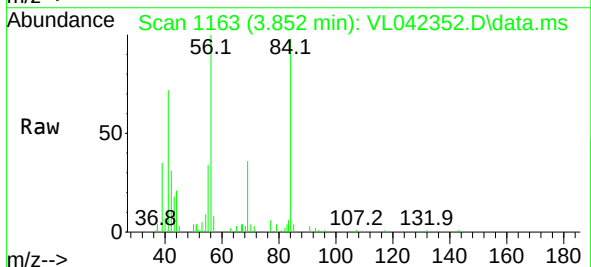
Tgt Ion: 84 Resp: 8572

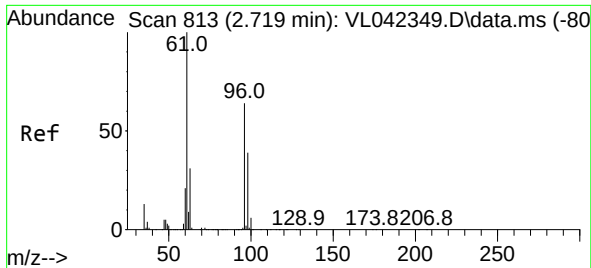
Ion Ratio Lower Upper

84 100

56 132.8 101.0 151.4

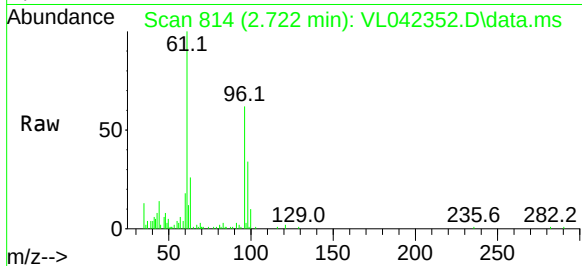
41 89.8 67.4 101.0





#31
 cis-1,2-Dichloroethene
 Concen: 0.511 ppbv
 RT: 2.722 min Scan# 813
 Delta R.T. 0.003 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19

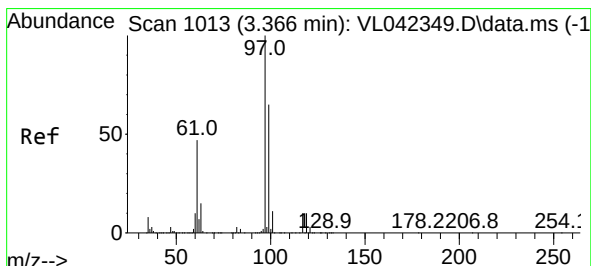
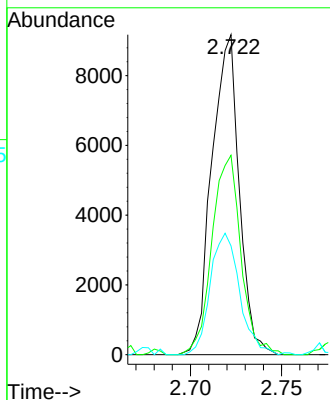
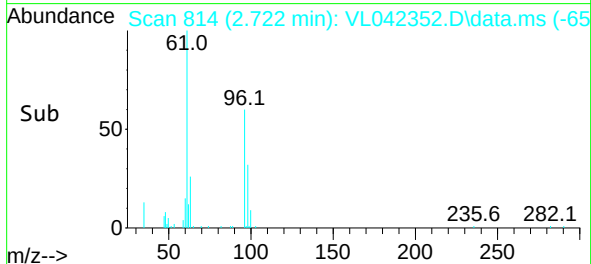
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



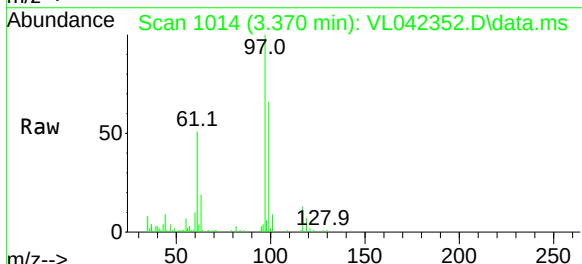
Tgt Ion: 61 Resp: 957
 Ion Ratio Lower Upper
 61 100
 96 62.3 50.8 76.2
 98 34.0 30.9 46.3

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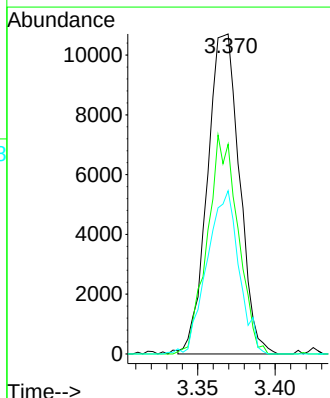
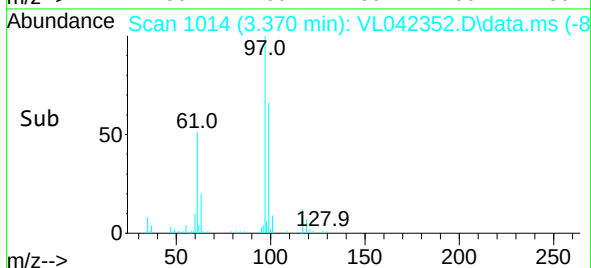
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

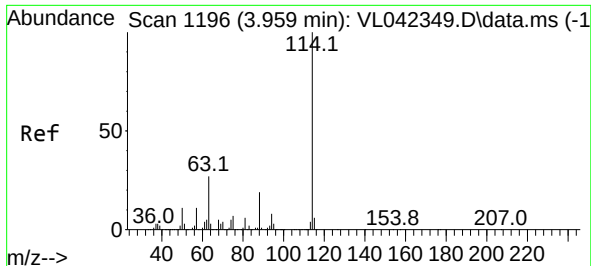


#32
 1,1,1-Trichloroethane
 Concen: 0.516 ppbv
 RT: 3.370 min Scan# 1014
 Delta R.T. 0.003 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19



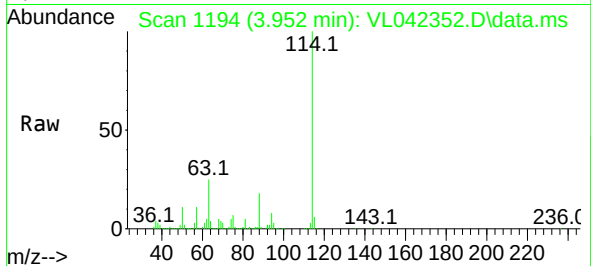
Tgt Ion: 97 Resp: 15413
 Ion Ratio Lower Upper
 97 100
 99 65.6 51.0 76.4
 61 50.8 38.8 58.2





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.006 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

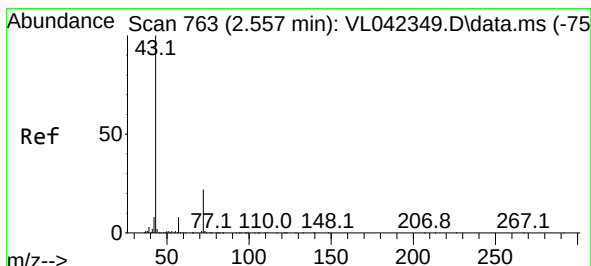
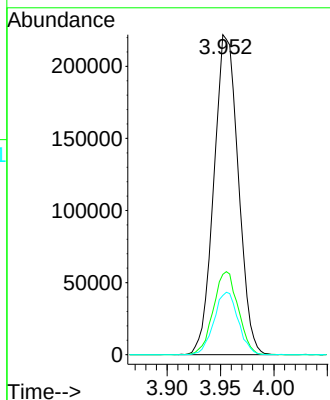
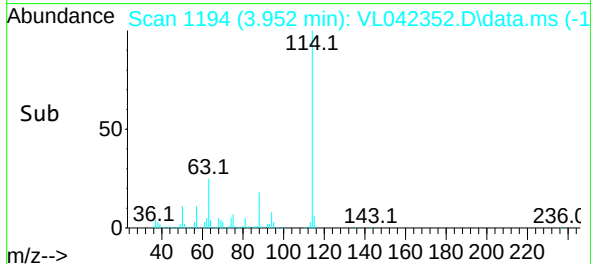
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



Tgt Ion:114 Resp: 35313
Ion Ratio Lower Upper
114 100
63 26.3 21.8 32.6
88 19.4 15.5 23.3

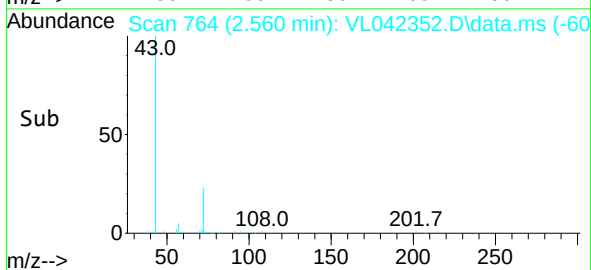
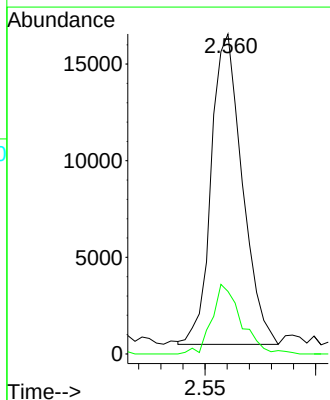
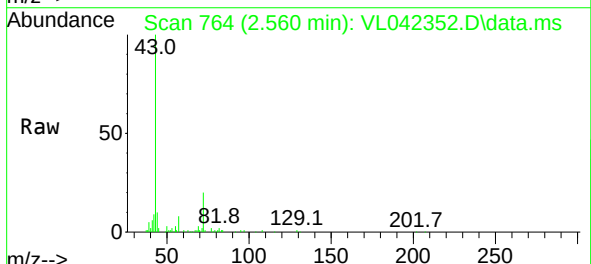
Manual Integrations
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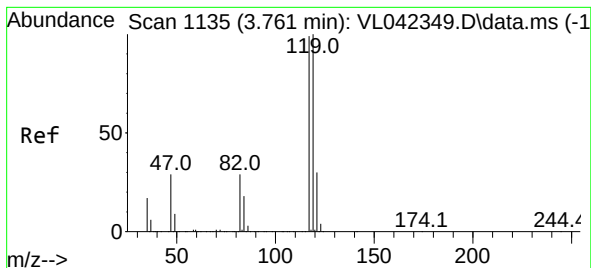
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#34
2-Butanone
Concen: 0.560 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 43 Resp: 15640
Ion Ratio Lower Upper
43 100
72 21.3 18.2 27.2





#35

Carbon Tetrachloride

Concen: 0.459 ppbv

RT: 3.761 min Scan# 1135

Delta R.T. -0.000 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA_L

ClientSampleId :

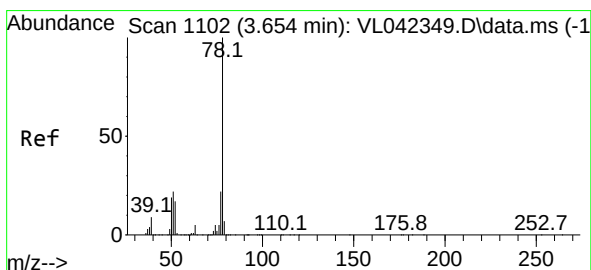
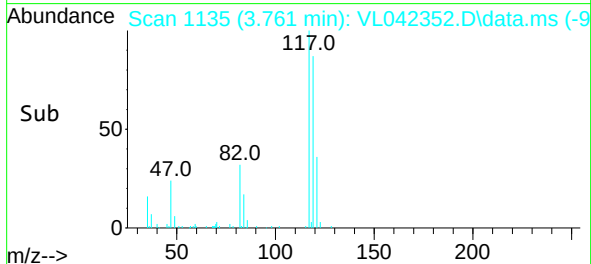
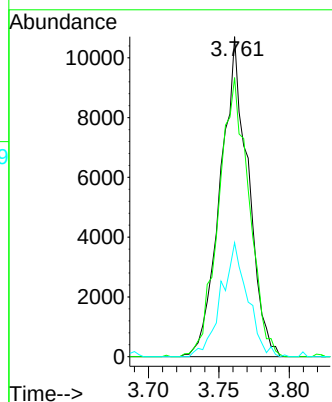
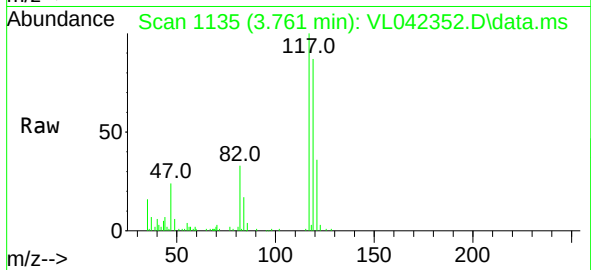
VSTDIC0.5

Tgt Ion: 117	Resp: 1468
Ion Ratio	Lower Upper
117 100	
119 87.2	80.5 120.7
121 35.6	24.2 36.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#36

Benzene

Concen: 0.531 ppbv

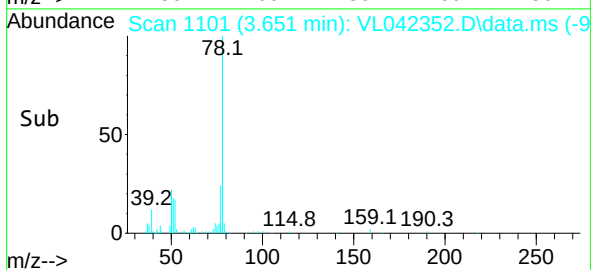
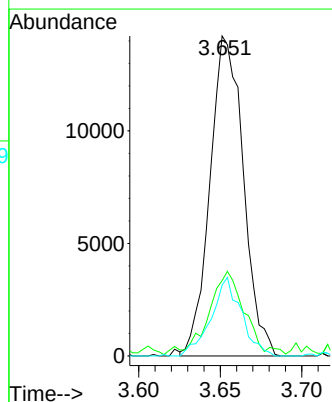
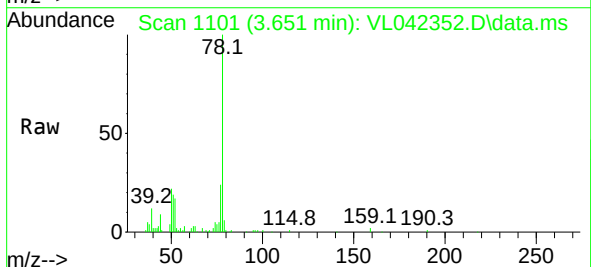
RT: 3.651 min Scan# 1101

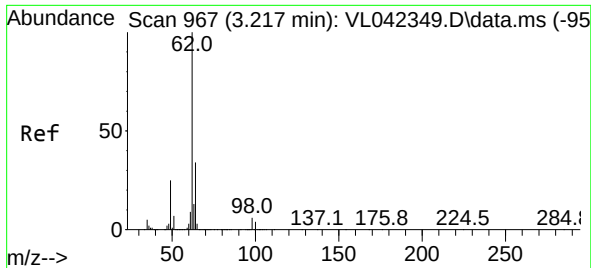
Delta R.T. -0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Tgt Ion: 78	Resp: 20233
Ion Ratio	Lower Upper
78 100	
77 21.7	17.4 26.0
50 22.1	15.5 23.3





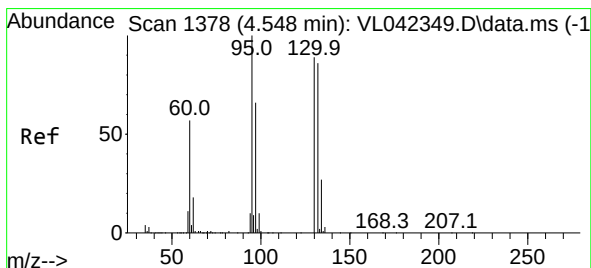
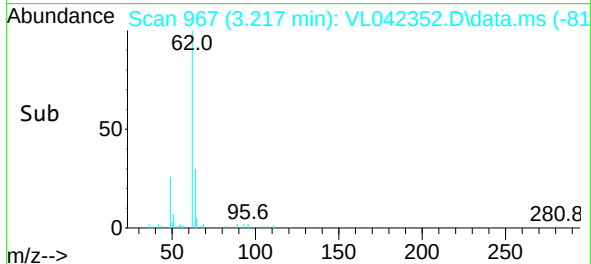
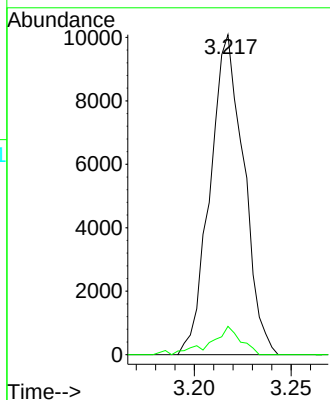
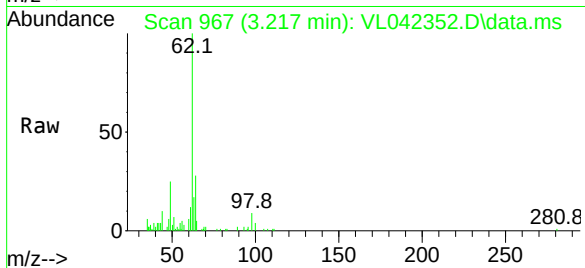
#37
1,2-Dichloroethane
Concen: 0.533 ppbv
RT: 3.217 min Scan# 967
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 62 Resp: 12194
Ion Ratio Lower Upper
62 100
98 8.1 5.1 7.7

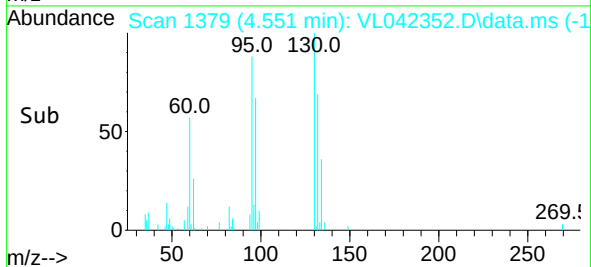
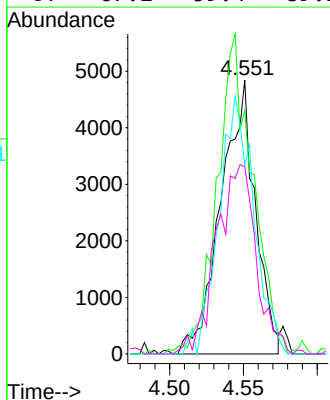
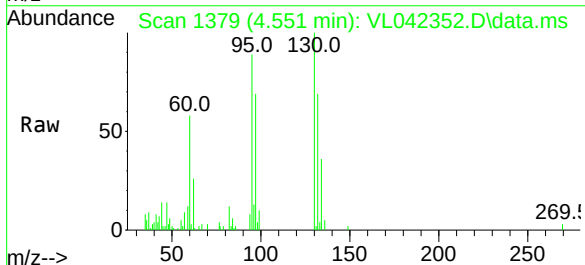
Manual Integrations
APPROVED

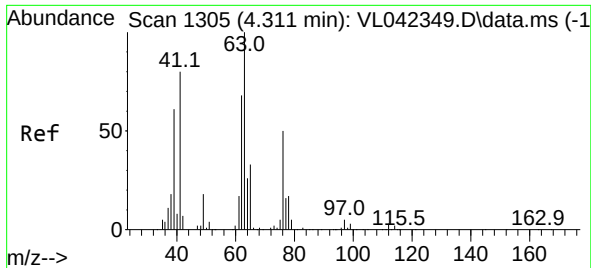
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#38
Trichloroethene
Concen: 0.468 ppbv
RT: 4.551 min Scan# 1379
Delta R.T. 0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

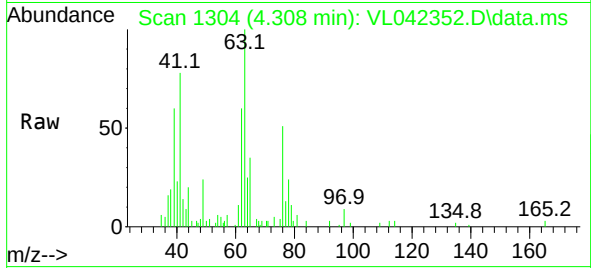
Tgt Ion:130 Resp: 7819
Ion Ratio Lower Upper
130 100
95 86.2 89.8 134.6#
132 69.1 77.7 116.5#
97 67.2 59.4 89.2





#39
1,2-Dichloropropane
Concen: 0.548 ppbv m
RT: 4.308 min Scan# 1304
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

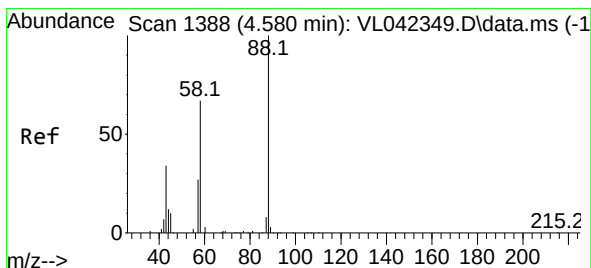
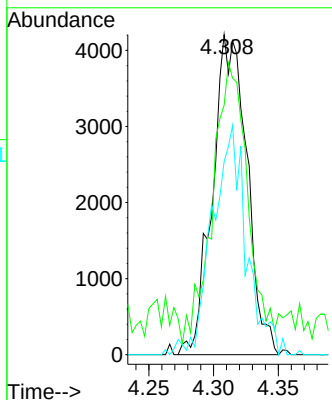
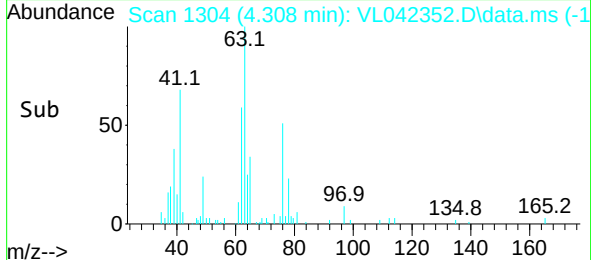
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



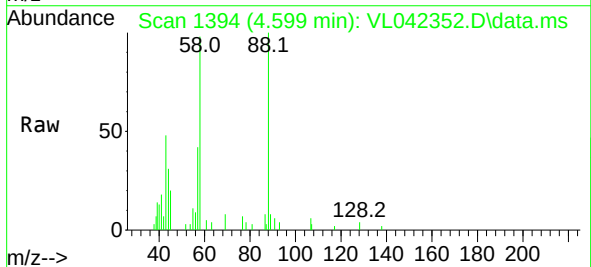
Tgt Ion: 63 Resp: 7790
Ion Ratio Lower Upper
63 100
41 78.0 64.2 96.2
62 60.4 54.3 81.5

Manual Integrations
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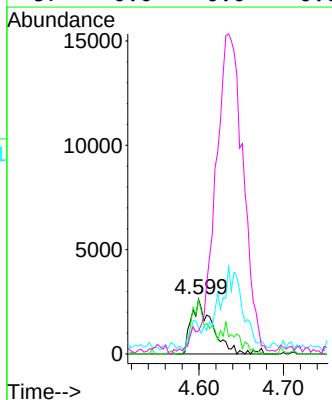
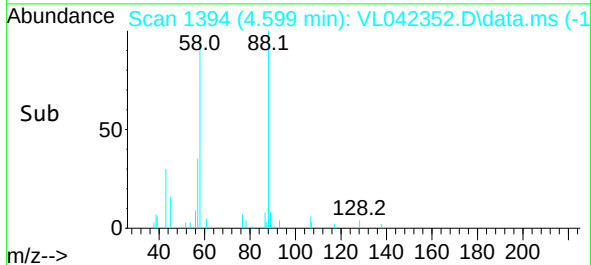
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

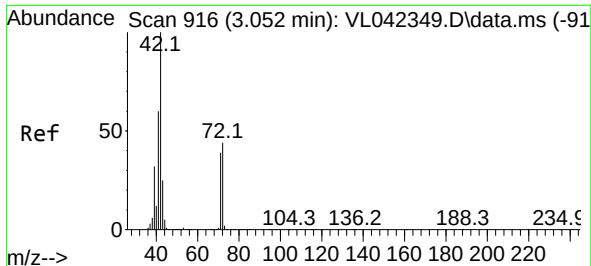


#40
1,4-Dioxane
Concen: 0.603 ppbv m
RT: 4.599 min Scan# 1394
Delta R.T. 0.019 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19



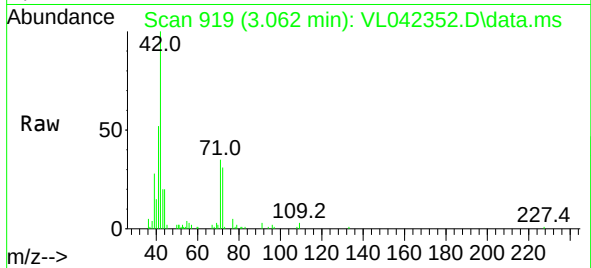
Tgt Ion: 88 Resp: 4637
Ion Ratio Lower Upper
88 100
58 118.1 61.4 92.0#
43 0.0 23.2 34.8#
57 0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 0.567 ppbv m
RT: 3.062 min Scan# 916
Delta R.T. 0.010 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

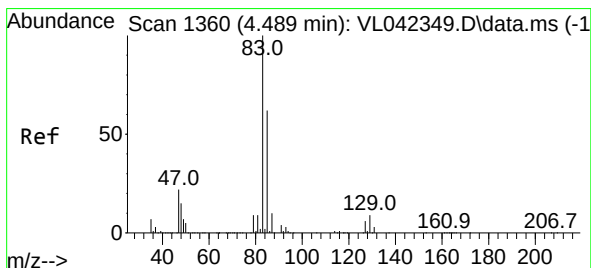
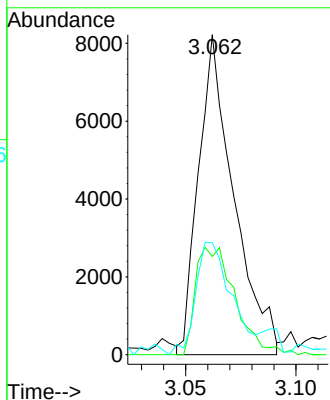
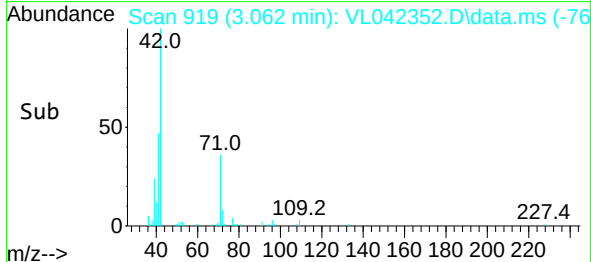
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



Tgt Ion: 42 Resp: 9144
Ion Ratio Lower Upper
42 100
72 37.7 32.3 48.5
71 43.1 31.4 47.2

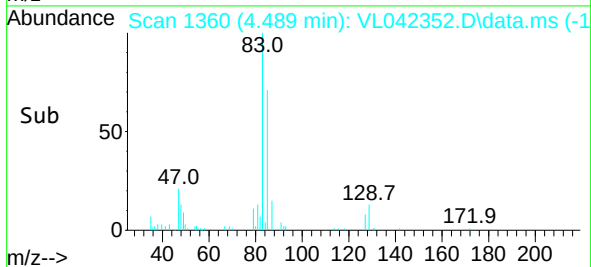
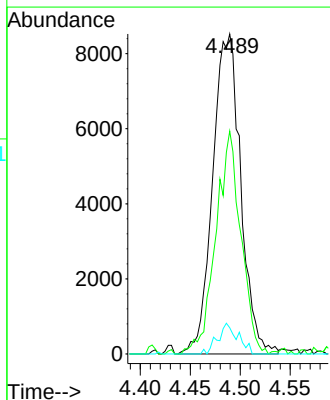
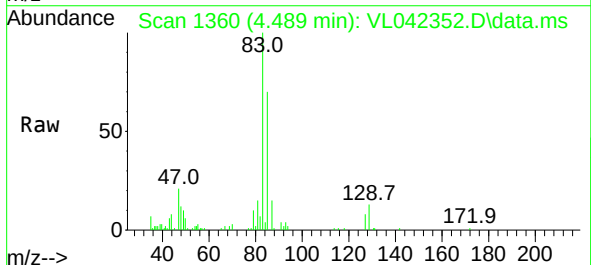
Manual Integrations
APPROVED

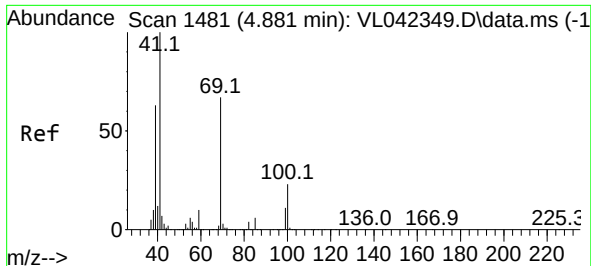
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#42
Bromodichloromethane
Concen: 0.523 ppbv
RT: 4.489 min Scan# 1360
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 83 Resp: 16642
Ion Ratio Lower Upper
83 100
85 69.6 49.7 74.5
127 8.2 5.1 7.7#





#43

Methyl Methacrylate

Concen: 0.563 ppbv m

RT: 4.881 min Scan# 1481

Delta R.T. -0.000 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA_L

ClientSampleId :

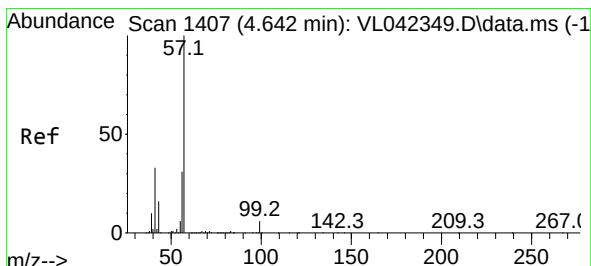
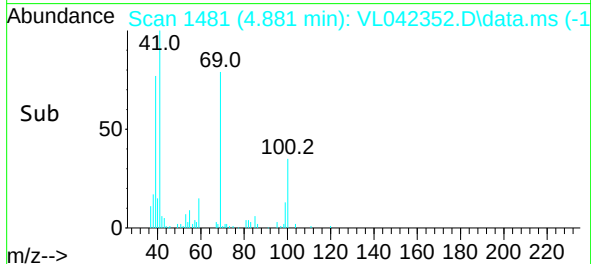
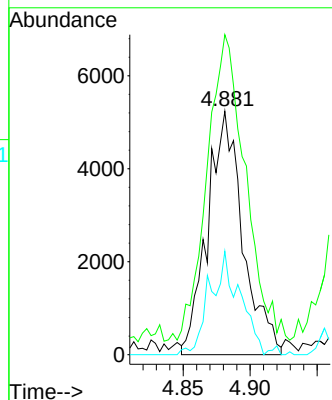
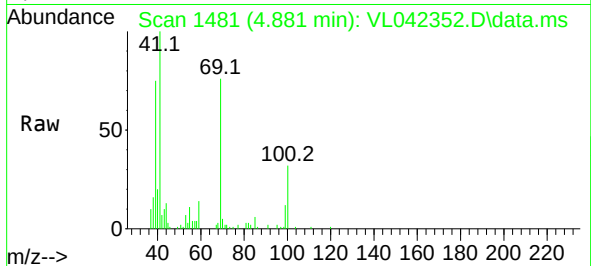
VSTDIC0.5

Tgt Ion:	69	Resp:	9620
Ion	Ratio	Lower	Upper
69	100		
41	0.0	118.6	177.8
100	0.0	28.2	42.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#44

2,2,4-Trimethylpentane

Concen: 0.519 ppbv

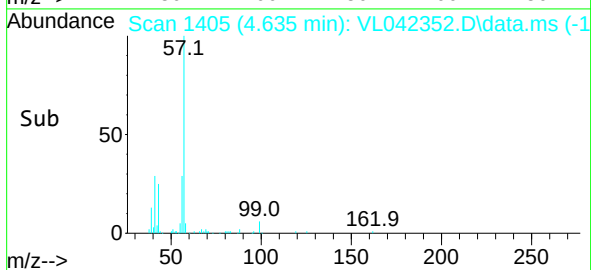
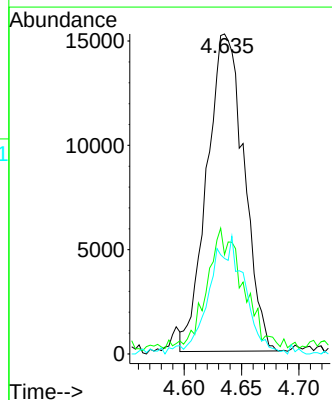
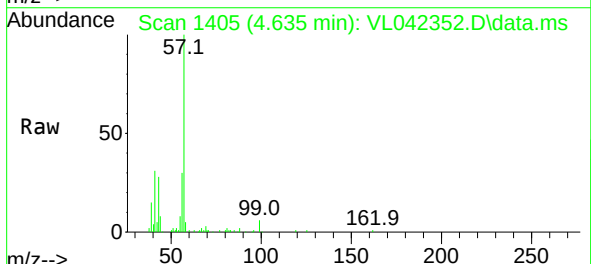
RT: 4.635 min Scan# 1405

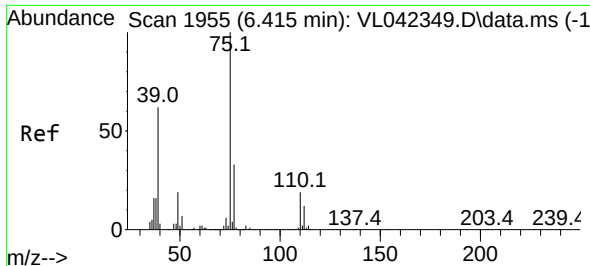
Delta R.T. -0.006 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

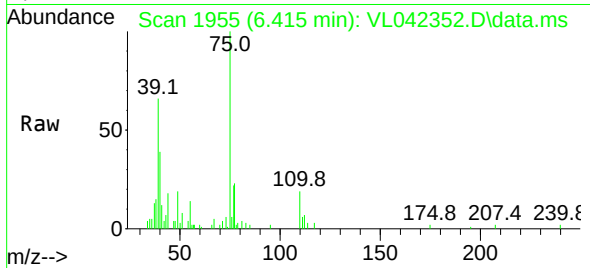
Tgt Ion:	57	Resp:	34170
Ion	Ratio	Lower	Upper
57	100		
41	39.1	27.2	40.8
56	37.1	25.7	38.5





#45
t-1,3-Dichloropropene
Concen: 0.517 ppbv m
RT: 6.415 min Scan# 1955
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

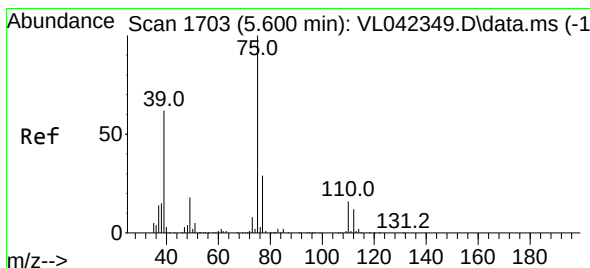
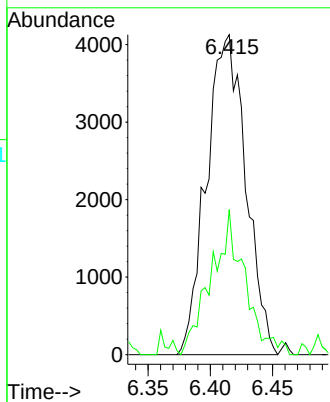
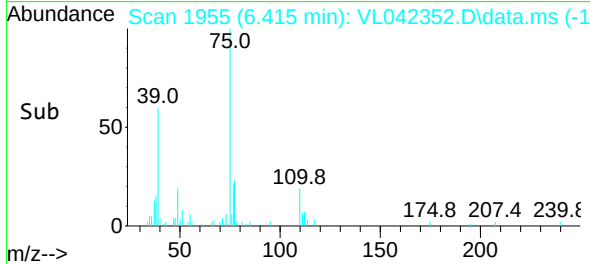
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



Tgt Ion: 75 Resp: 9073
Ion Ratio Lower Upper
75 100
77 23.1 27.0 40.6

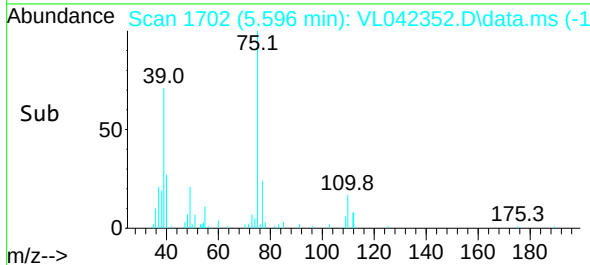
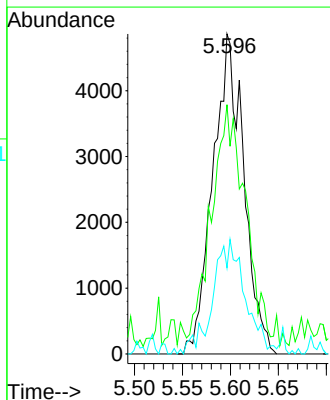
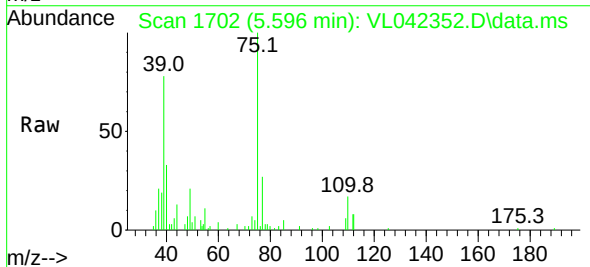
Manual Integrations
APPROVED

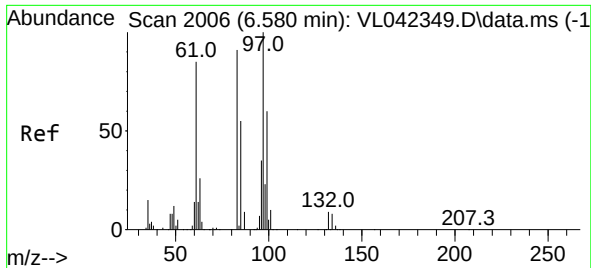
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#46
cis-1,3-Dichloropropene
Concen: 0.505 ppbv m
RT: 5.596 min Scan# 1702
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 75 Resp: 10827
Ion Ratio Lower Upper
75 100
39 77.9 50.0 75.0#
77 26.9 23.0 34.6





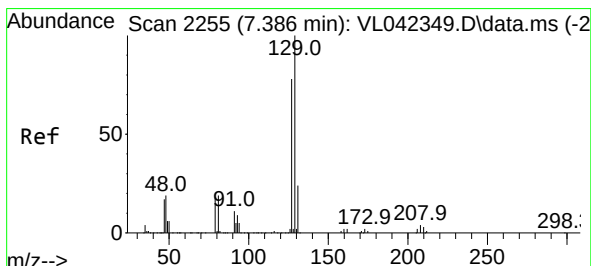
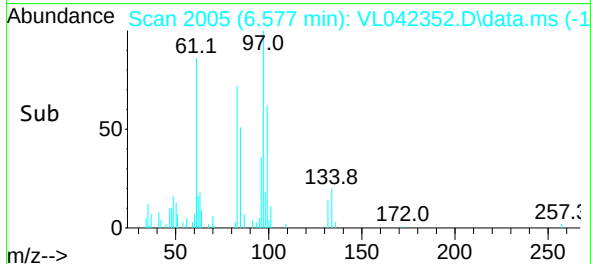
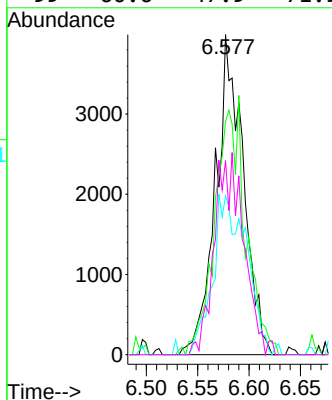
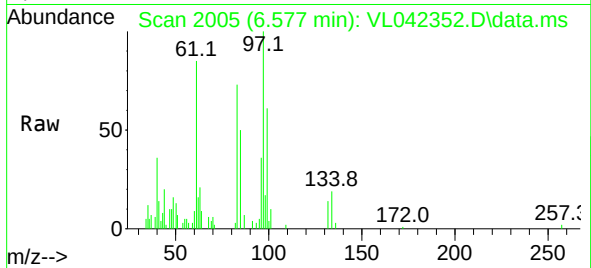
#47
1,1,2-Trichloroethane
Concen: 0.516 ppbv m
RT: 6.577 min Scan# 2005
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion:	97	Resp:	746
Ion	Ratio	Lower	Upper
97	100		
83	72.9	72.8	109.2
85	49.6	44.2	66.4
99	60.6	47.9	71.9

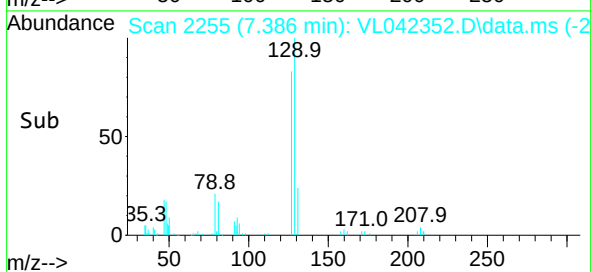
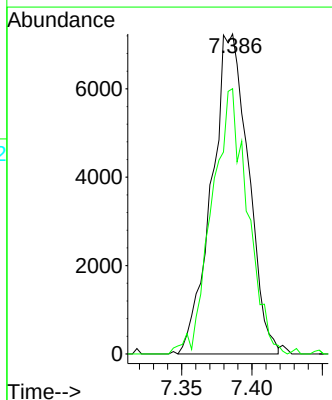
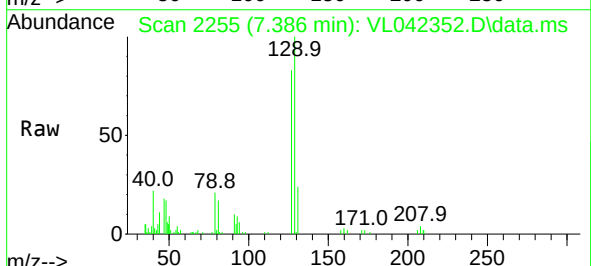
Manual Integrations
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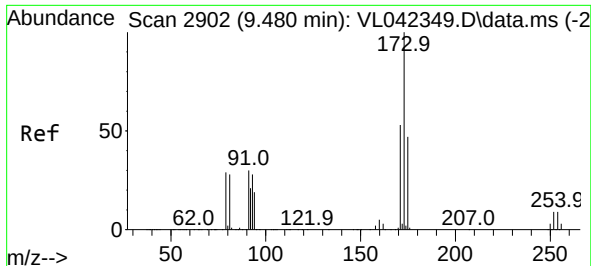
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#48
Dibromochloromethane
Concen: 0.514 ppbv
RT: 7.386 min Scan# 2255
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:	129	Resp:	13122
Ion	Ratio	Lower	Upper
129	100		
127	80.9	39.1	117.3





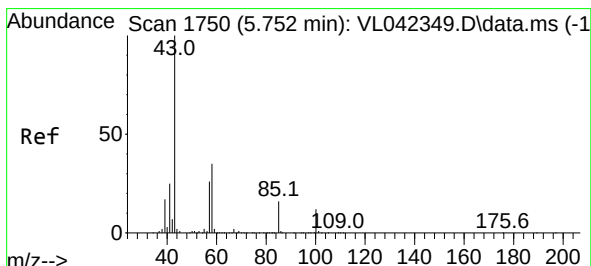
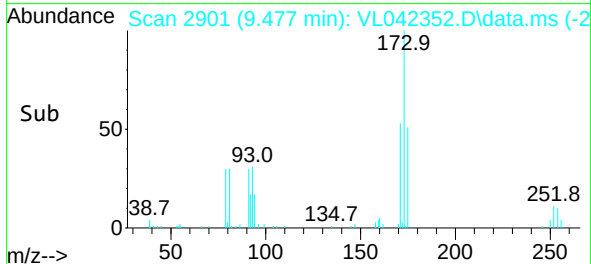
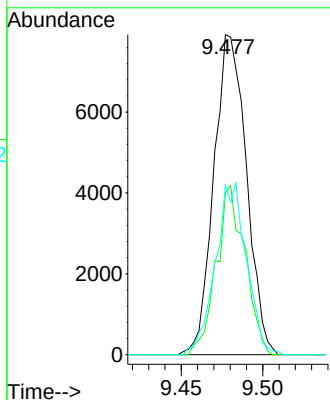
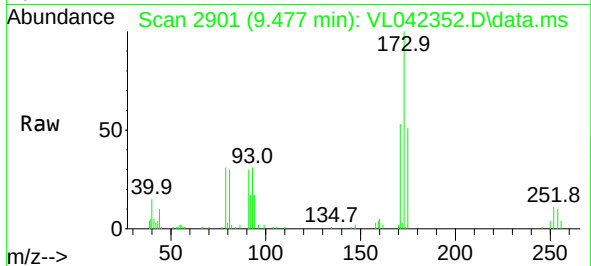
#49
Bromoform
Concen: 0.492 ppbv
RT: 9.477 min Scan# 2902
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion:173 Resp: 1098
Ion Ratio Lower Upper
173 100
175 46.8 38.2 57.2
171 51.2 40.9 61.3

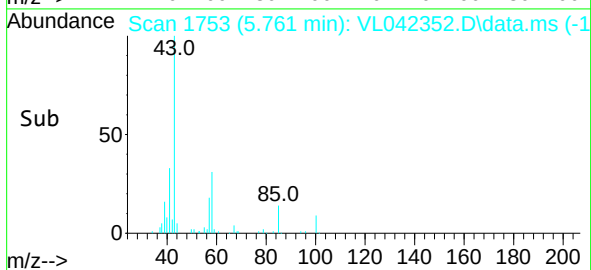
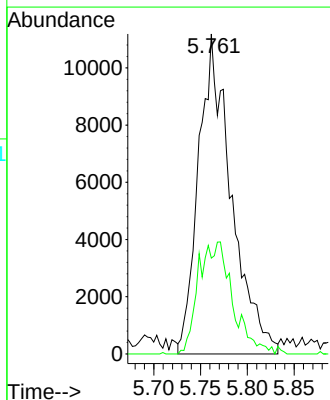
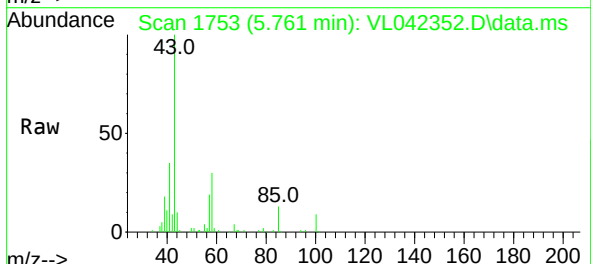
Manual Integrations
APPROVED

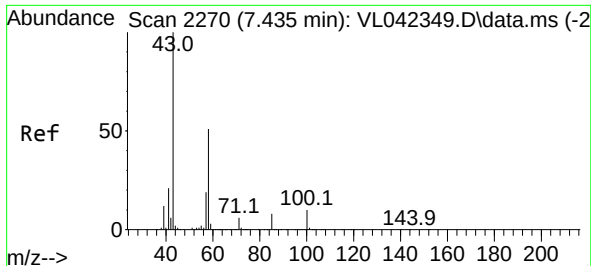
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#50
4-Methyl-2-Pentanone
Concen: 0.585 ppbv m
RT: 5.761 min Scan# 1753
Delta R.T. 0.010 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

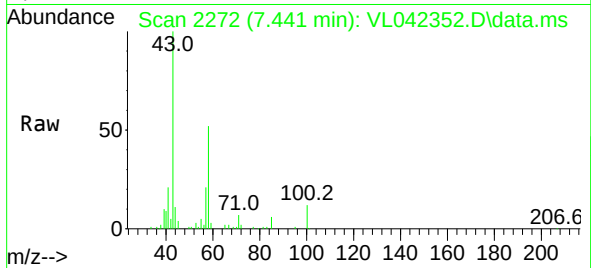
Tgt Ion: 43 Resp: 27206
Ion Ratio Lower Upper
43 100
58 0.0 28.6 43.0#





#51
2-Hexanone
Concen: 0.564 ppbv
RT: 7.441 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

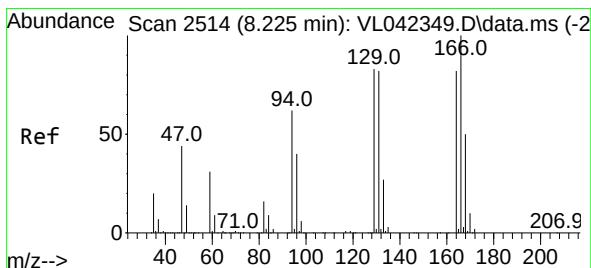
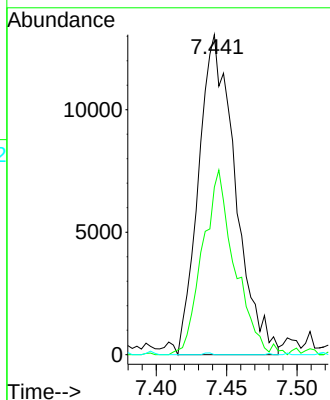
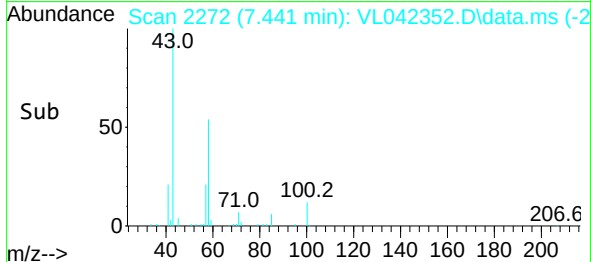
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



Tgt Ion: 43 Resp: 23684
Ion Ratio Lower Upper
43 100
58 51.7 40.2 60.4
98 0.1 0.1 0.1

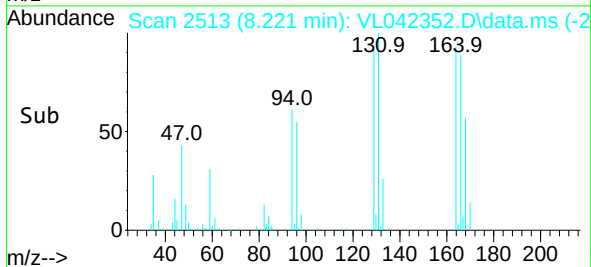
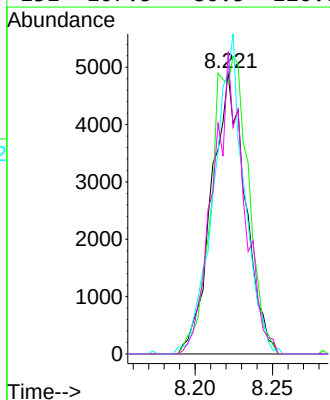
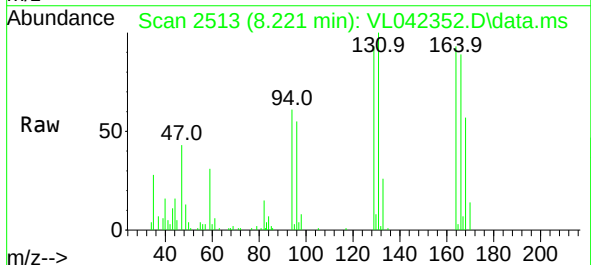
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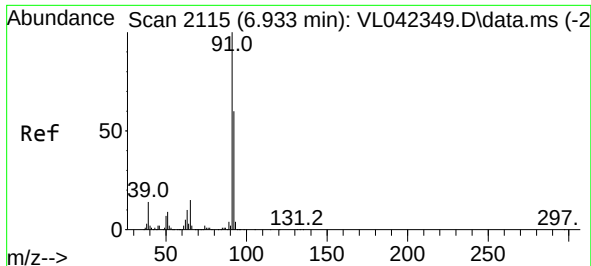
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#52
Tetrachloroethene
Concen: 0.503 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:164 Resp: 7412
Ion Ratio Lower Upper
164 100
166 96.1 98.2 147.2#
129 97.8 81.8 122.8
131 107.5 80.5 120.7





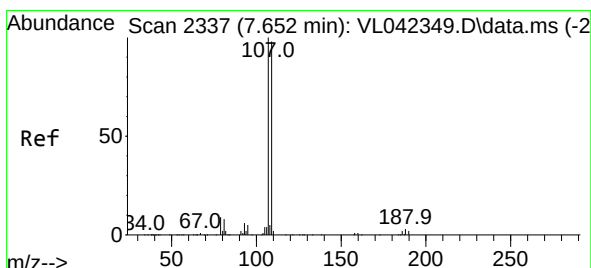
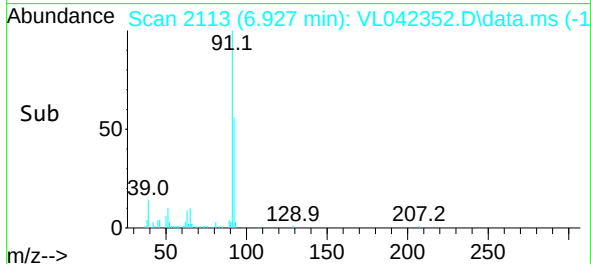
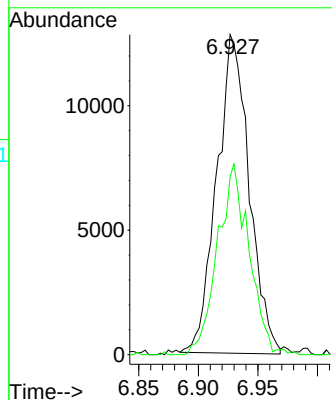
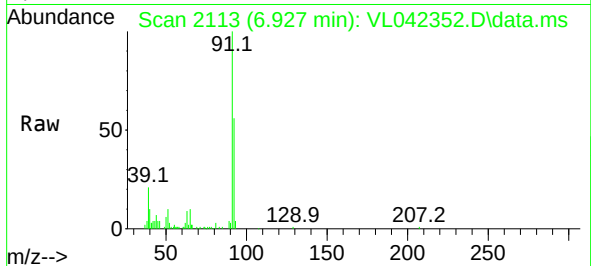
#53
Toluene
Concen: 0.529 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. -0.006 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 91 Resp: 24200
Ion Ratio Lower Upper
91 100
92 58.4 48.2 72.4

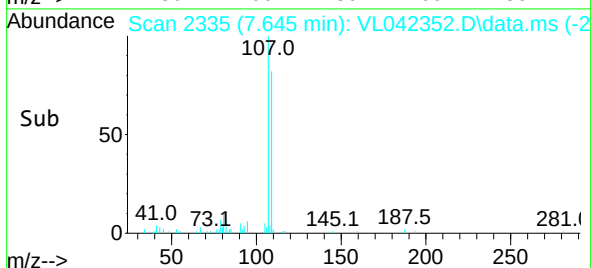
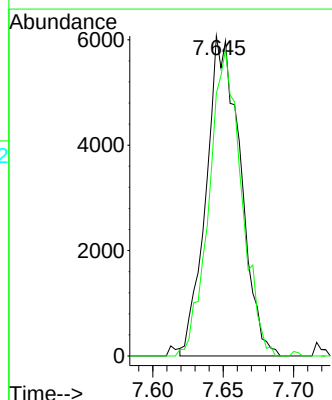
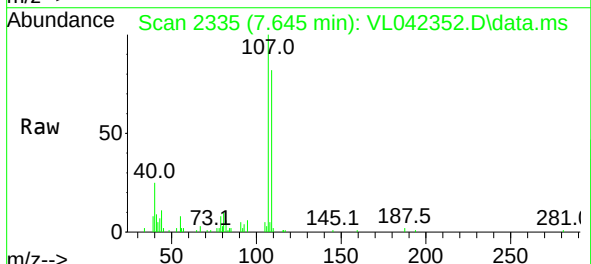
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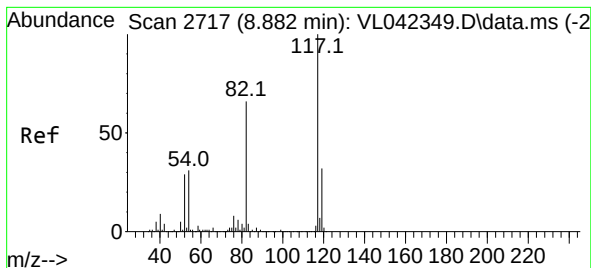
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#54
1,2-Dibromoethane
Concen: 0.499 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. -0.006 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:107 Resp: 10282
Ion Ratio Lower Upper
107 100
109 82.1 78.2 117.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.878 min Scan# 21

Delta R.T. -0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5

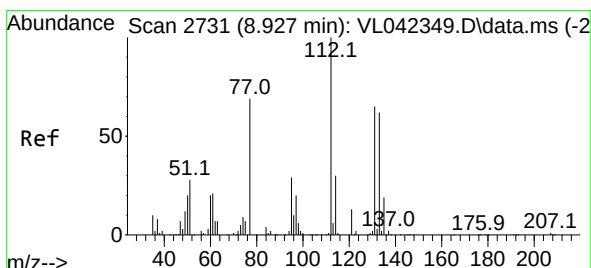
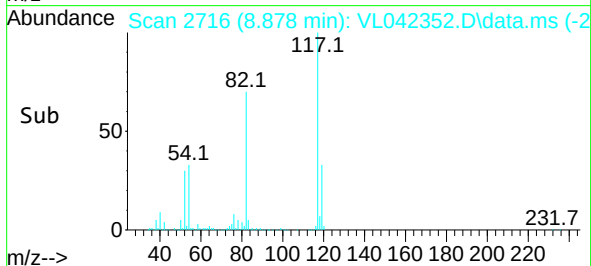
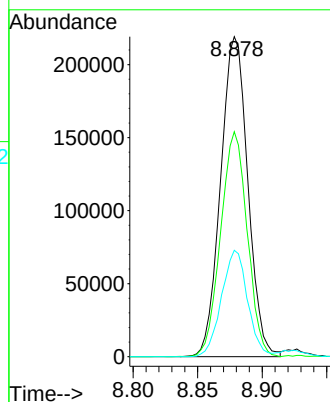
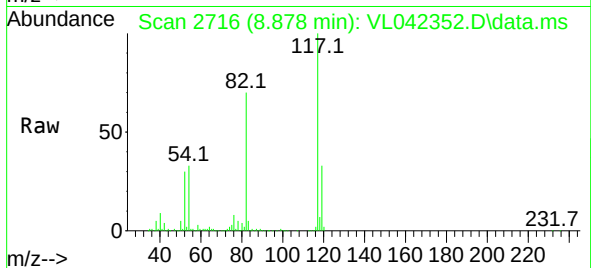
Tgt Ion:117 Resp: 321644

Ion	Ratio	Lower	Upper
117	100		
82	69.0	57.8	86.6
119	33.8	25.2	37.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#56

1,1,1,2-Tetrachloroethane

Concen: 0.513 ppbv

RT: 8.930 min Scan# 2732

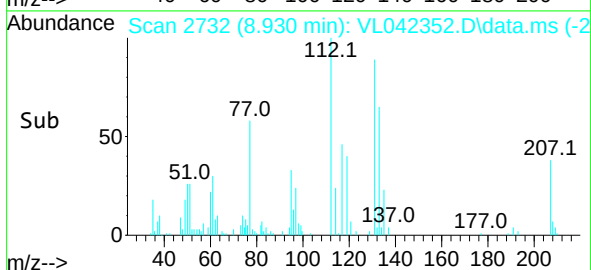
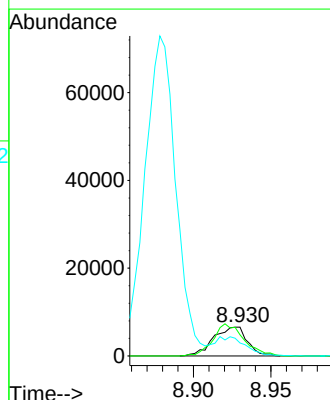
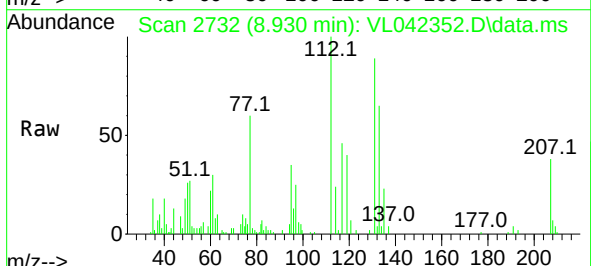
Delta R.T. 0.003 min

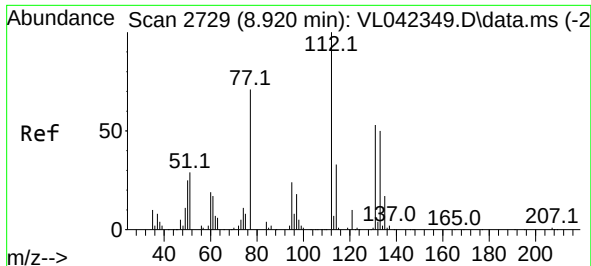
Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Tgt Ion:131 Resp: 9987

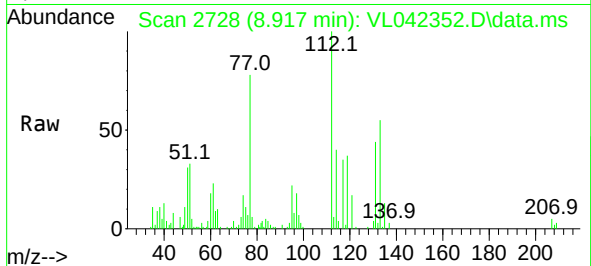
Ion	Ratio	Lower	Upper
131	100		
133	102.0	78.3	117.5
119	1087.9	48.7	73.1#





#57
Chlorobenzene
Concen: 0.543 ppbv m
RT: 8.917 min Scan# 2728
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

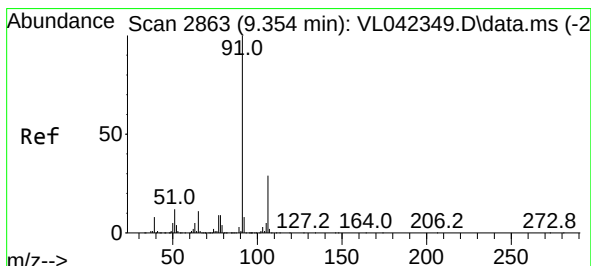
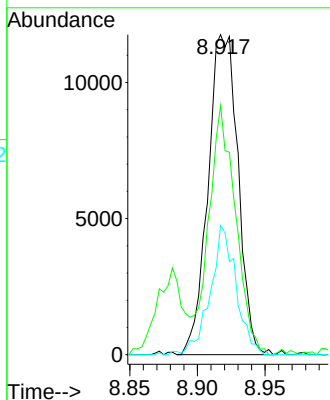
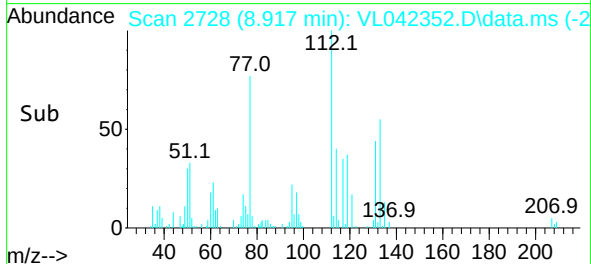
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



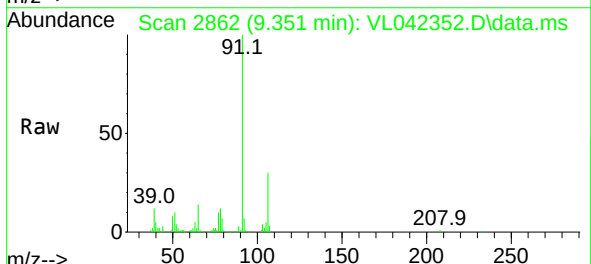
Tgt Ion: 112 Resp: 18149
Ion Ratio Lower Upper
112 100
77 77.8 57.8 86.6
114 40.4 29.3 35.9

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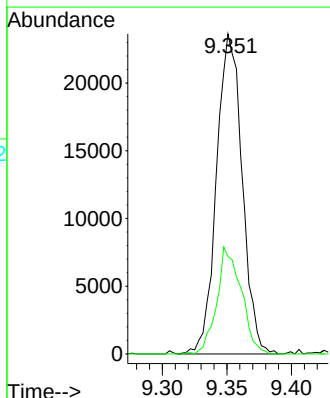
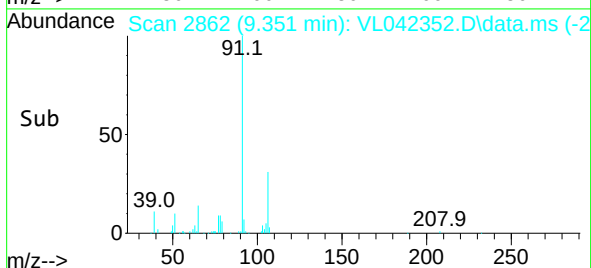
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

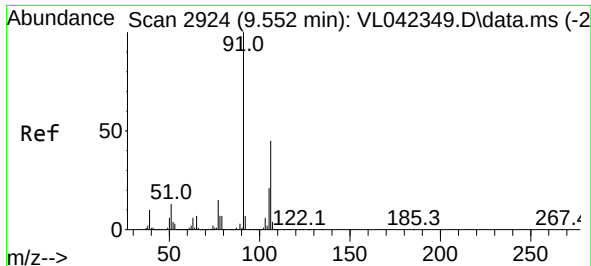


#58
Ethyl Benzene
Concen: 0.512 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19



Tgt Ion: 91 Resp: 32624
Ion Ratio Lower Upper
91 100
106 30.5 23.0 34.4





#59

m/p-Xylene

Concen: 1.053 ppbv m

RT: 9.532 min Scan# 2918

Delta R.T. -0.019 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5

Tgt Ion: 91 Resp: 5419

Ion Ratio Lower Upper

91 100

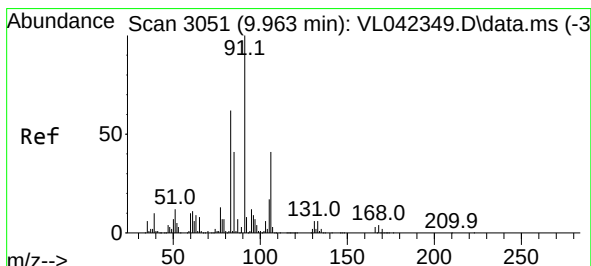
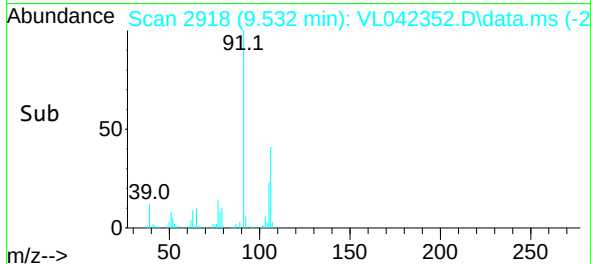
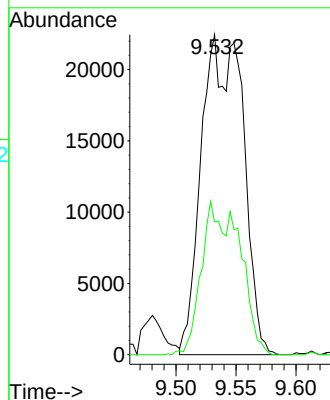
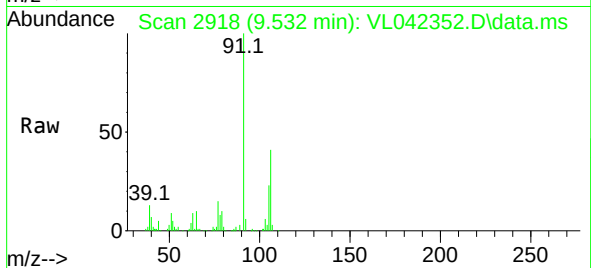
106 0.0 35.4 53.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#60

o-Xylene

Concen: 0.541 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. -0.000 min

Lab File: VL042352.D

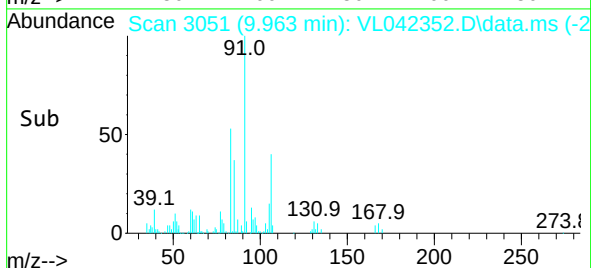
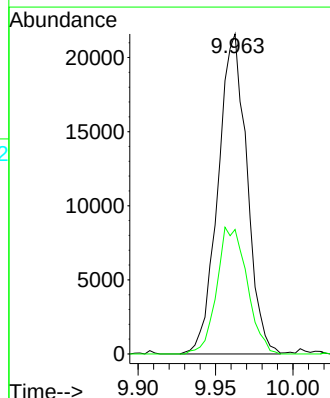
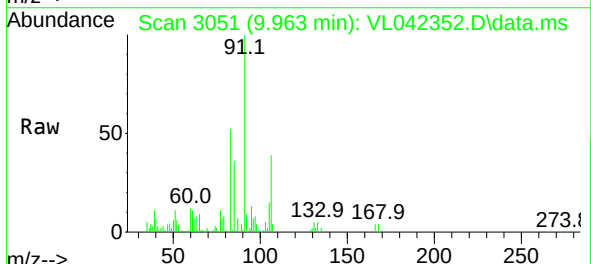
Acq: 17 Apr 2025 11:19

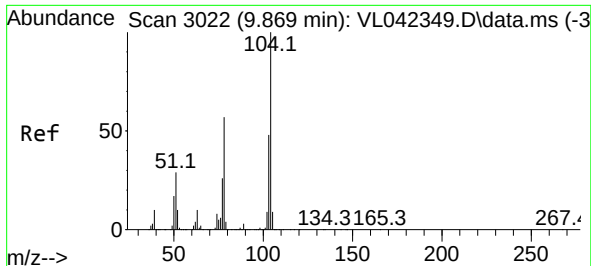
Tgt Ion: 91 Resp: 27983

Ion Ratio Lower Upper

91 100

106 41.6 21.1 63.4





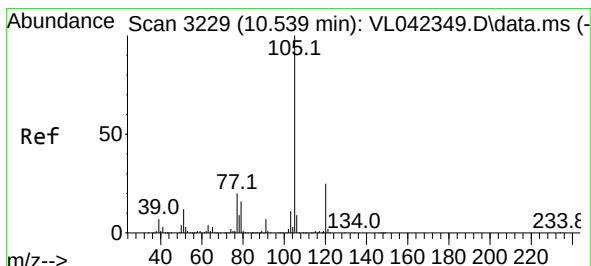
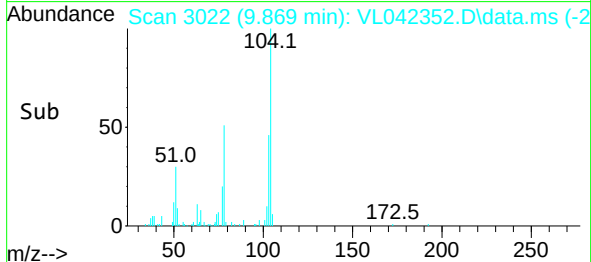
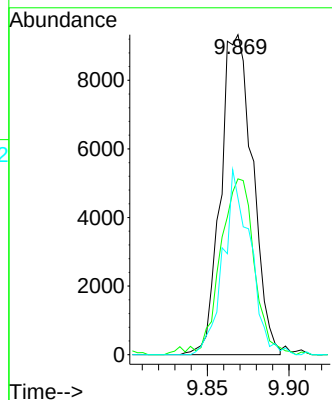
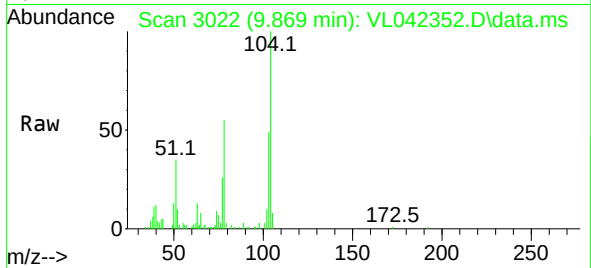
#61
Styrene
Concen: 0.516 ppbv
RT: 9.869 min Scan# 3022
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion:104 Resp: 12730
Ion Ratio Lower Upper
104 100
78 58.6 44.6 66.8
103 49.2 37.4 56.0

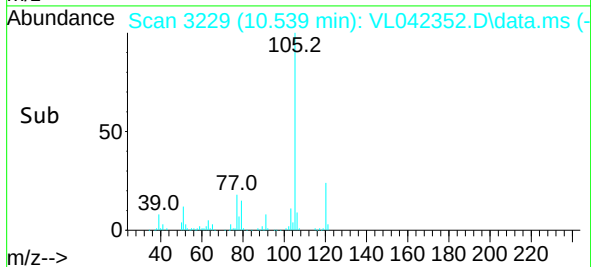
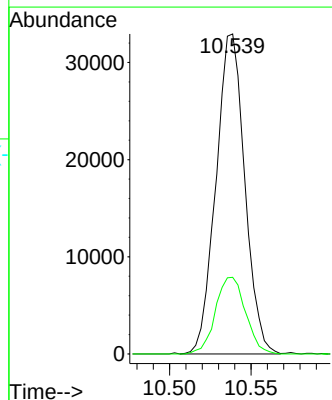
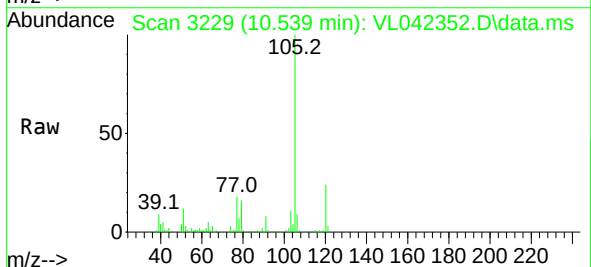
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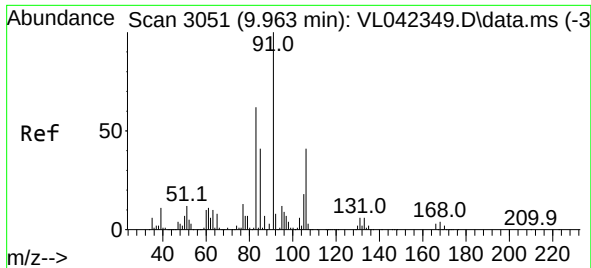
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#62
Isopropylbenzene
Concen: 0.533 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

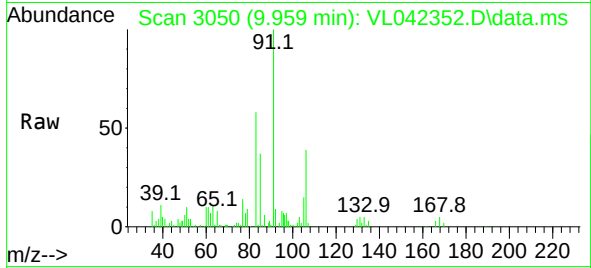
Tgt Ion:105 Resp: 40481
Ion Ratio Lower Upper
105 100
120 24.9 19.8 29.8





#63
1,1,2,2-Tetrachloroethane
Concen: 0.474 ppbv
RT: 9.959 min Scan# 3051
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

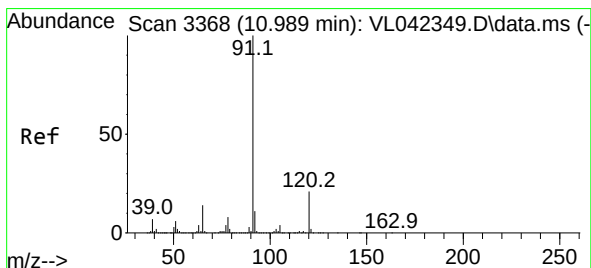
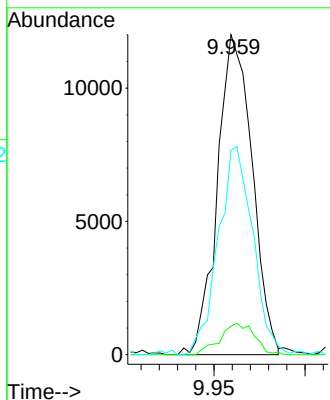
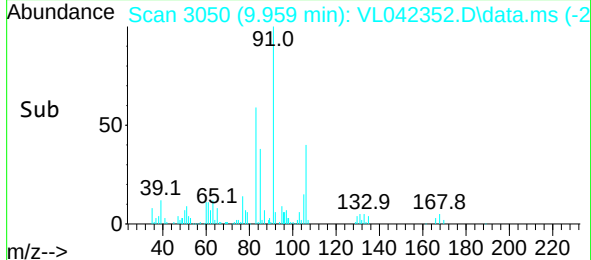
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



Tgt Ion: 83 Resp: 15920
Ion Ratio Lower Upper
83 100
131 9.8 4.5 13.7
85 65.6 32.4 97.0

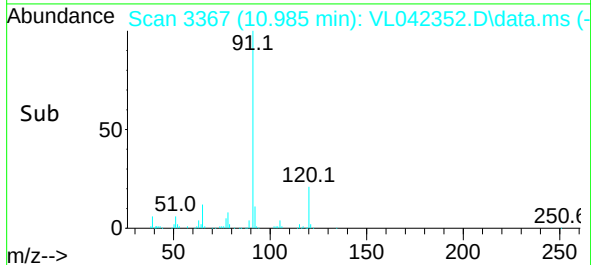
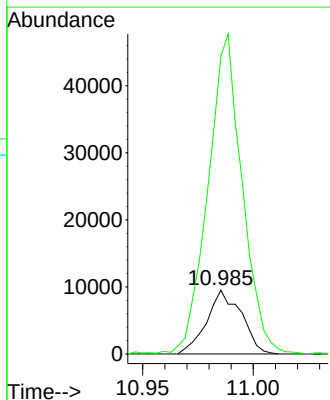
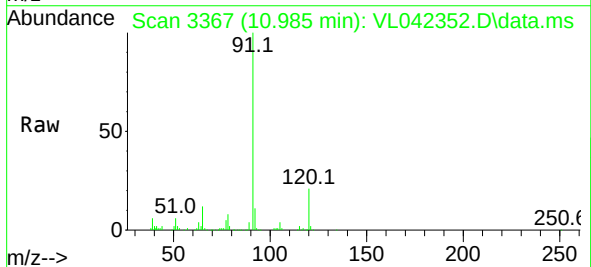
Manual Integrations
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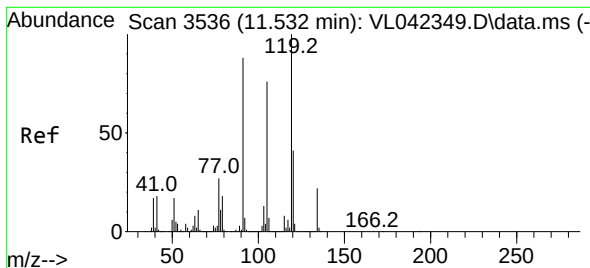
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#64
n-propylbenzene
Concen: 0.544 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:120 Resp: 10369
Ion Ratio Lower Upper
120 100
91 499.6 392.4 588.6





#65

tert-Butylbenzene

Concen: 0.535 ppbv

RT: 11.529 min Scan# 3535

Delta R.T. -0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA_L

ClientSampleId :

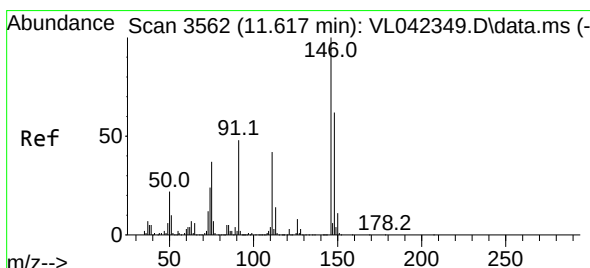
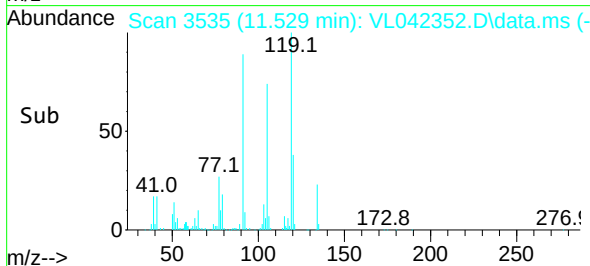
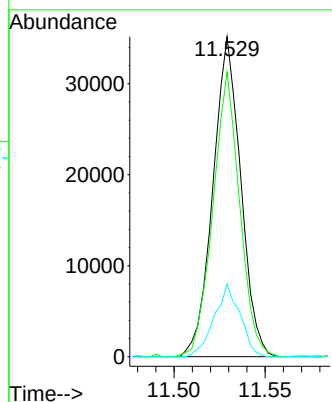
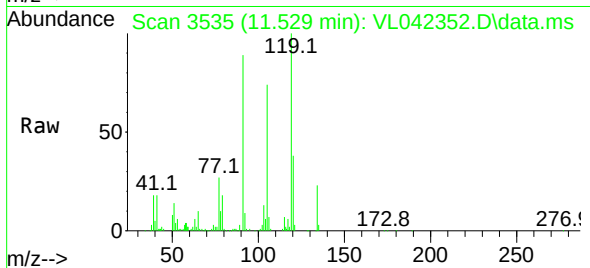
VSTDIC0.5

Tgt Ion:	119	Resp:	37294
Ion	Ratio	Lower	Upper
119	100		
91	85.8	74.6	111.8
134	21.1	18.8	28.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#66

Benzyl Chloride

Concen: 0.506 ppbv

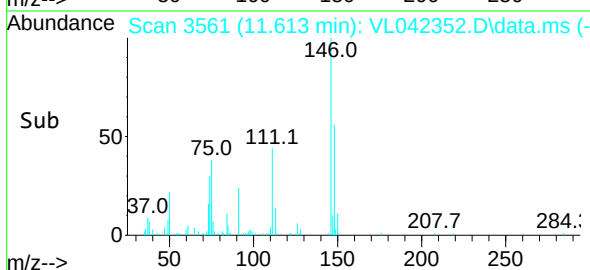
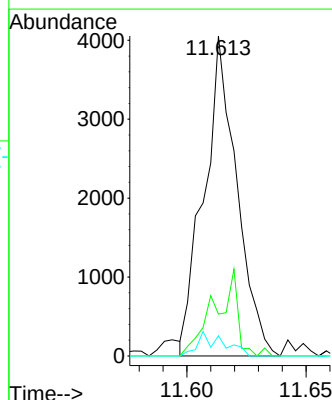
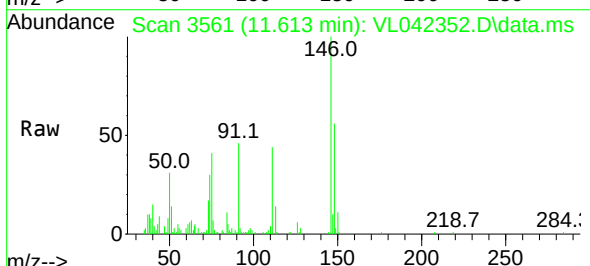
RT: 11.613 min Scan# 3561

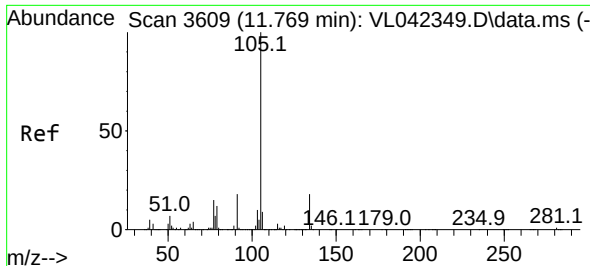
Delta R.T. -0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Tgt Ion:	91	Resp:	3878
Ion	Ratio	Lower	Upper
91	100		
126	19.8	11.8	17.6#
128	5.8	4.5	6.7





#67

sec-Butylbenzene

Concen: 0.537 ppbv

RT: 11.765 min Scan# 3609

Delta R.T. -0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion:105 Resp: 52139

Ion Ratio Lower Upper

105 100

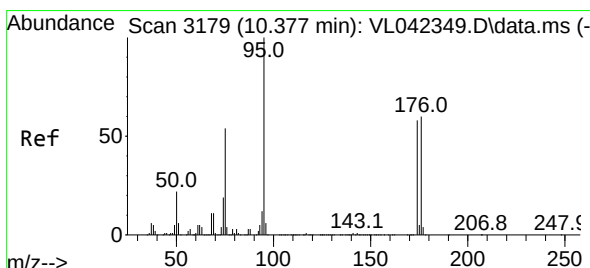
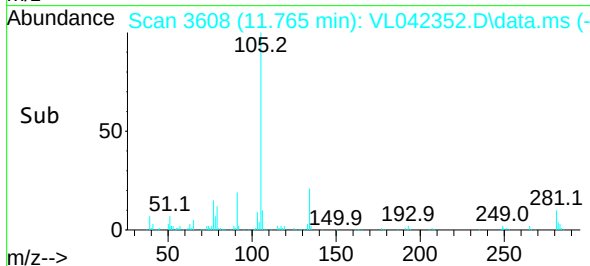
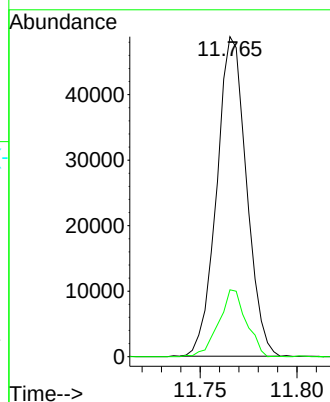
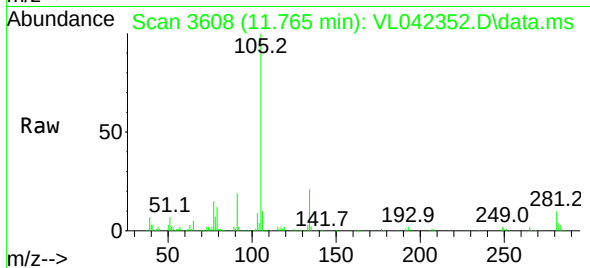
134 19.5 14.6 21.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#68

1-Bromo-4-Fluorobenzene

Concen: 10.032 ppbv

RT: 10.374 min Scan# 3178

Delta R.T. -0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

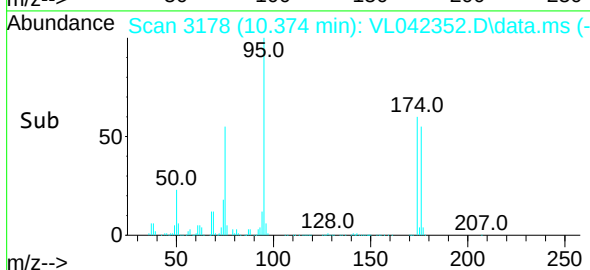
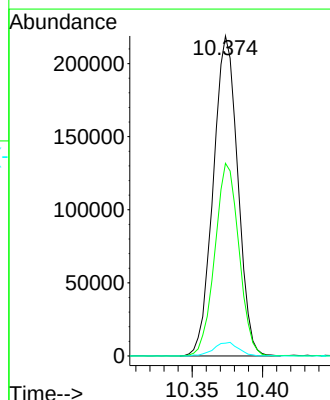
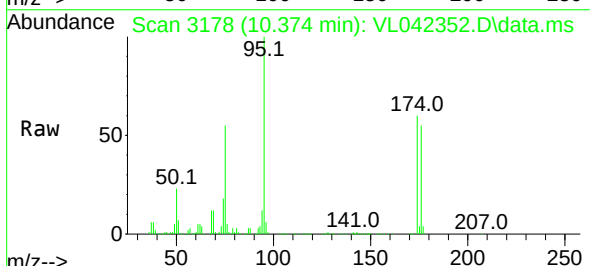
Tgt Ion: 95 Resp: 265161

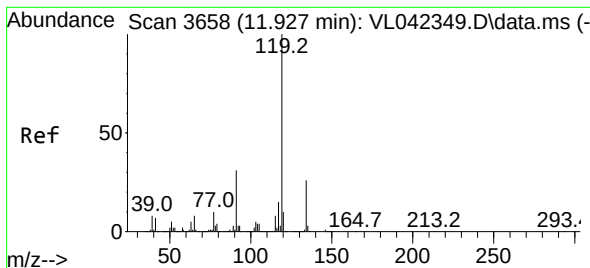
Ion Ratio Lower Upper

95 100

174 59.4 48.5 72.7

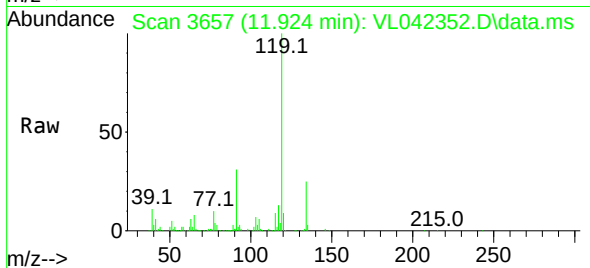
175 4.3 3.7 5.5





#69
p-Isopropyltoluene
Concen: 0.541 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

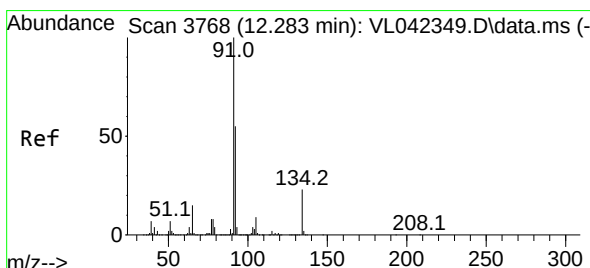
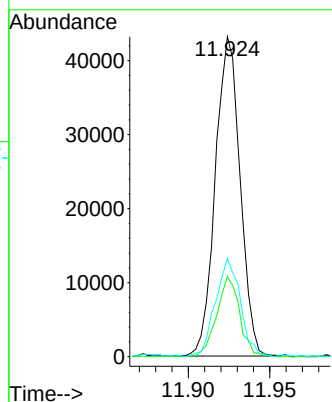
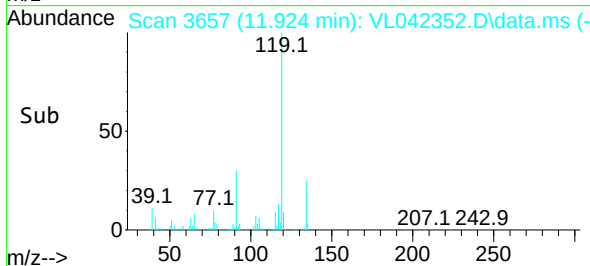
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



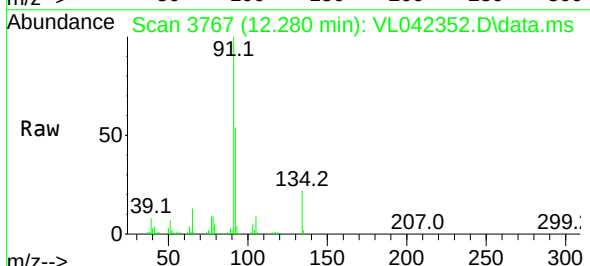
Tgt Ion:119 Resp: 45574
Ion Ratio Lower Upper
119 100
134 23.3 20.0 30.0
91 31.4 24.4 36.6

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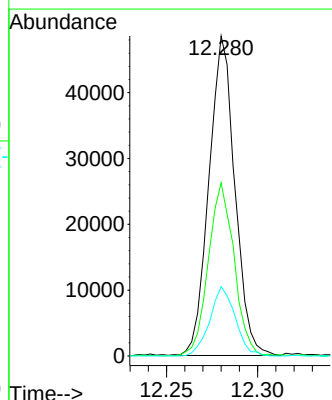
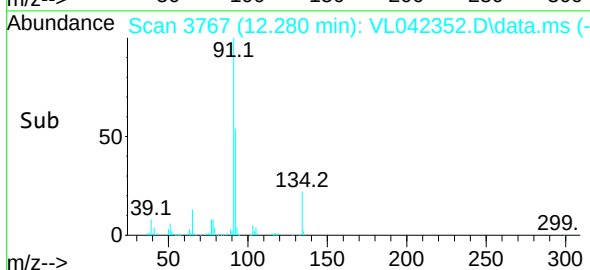
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

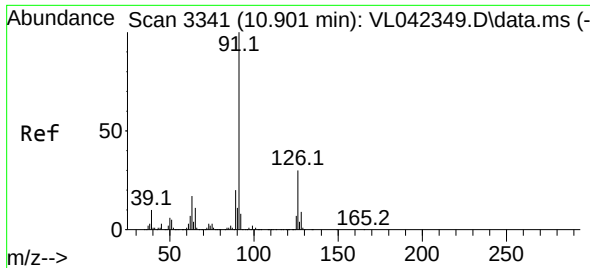


#70
n-Butylbenzene
Concen: 0.547 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19



Tgt Ion: 91 Resp: 48004
Ion Ratio Lower Upper
91 100
92 54.7 44.2 66.4
134 21.4 18.2 27.4





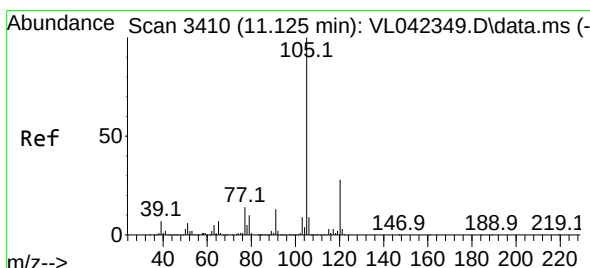
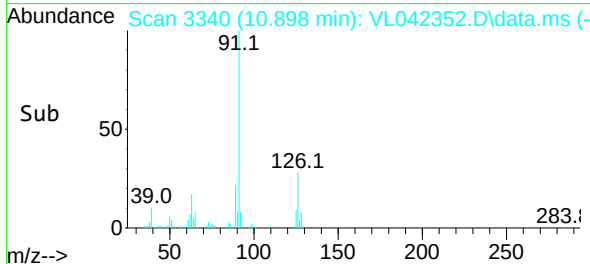
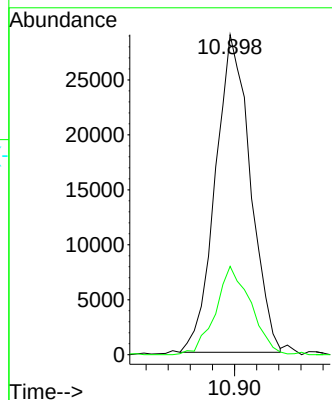
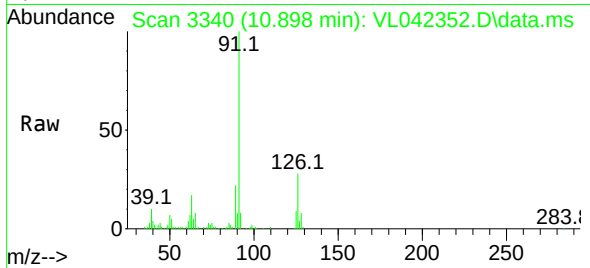
#71
2-Chlorotoluene
Concen: 0.533 ppbv
RT: 10.898 min Scan# 3170
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 91 Resp: 3170
Ion Ratio Lower Upper
91 100
126 28.3 11.4 45.4

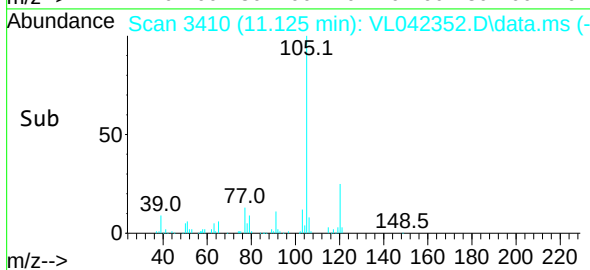
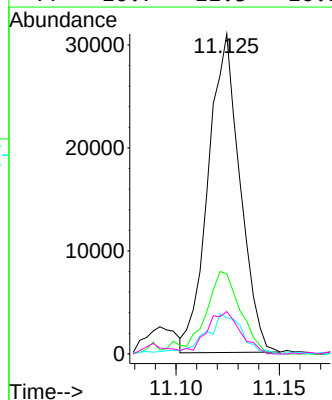
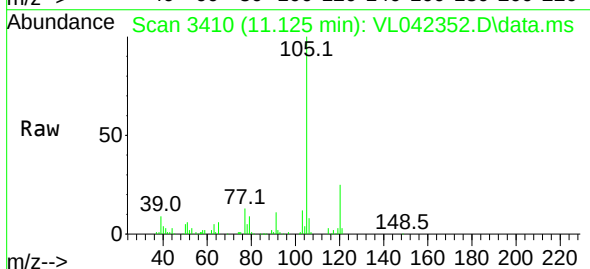
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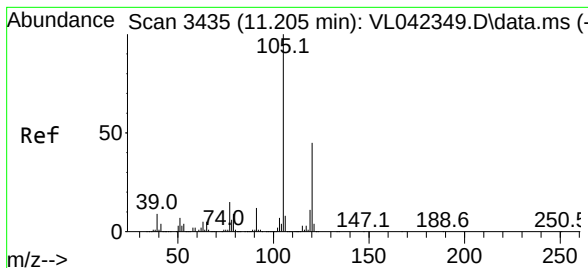
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#72
4-Ethyltoluene
Concen: 0.523 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:105 Resp: 33048
Ion Ratio Lower Upper
105 100
120 30.5 23.2 34.8
91 15.7 10.4 15.6#
77 16.7 11.3 16.9





#73

1,3,5-Trimethylbenzene

Concen: 0.546 ppbv

RT: 11.202 min Scan# 3435

Delta R.T. -0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5

Tgt Ion:105 Resp: 3046

Ion Ratio Lower Upper

105 100

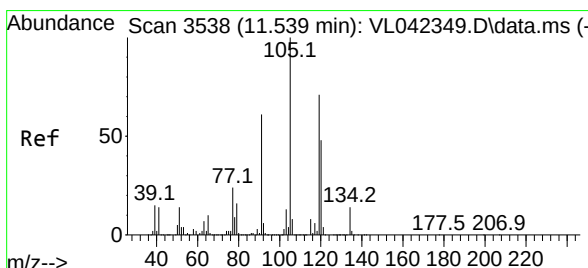
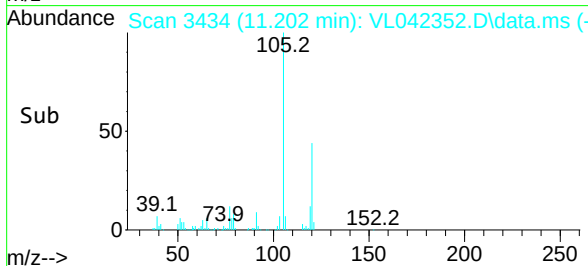
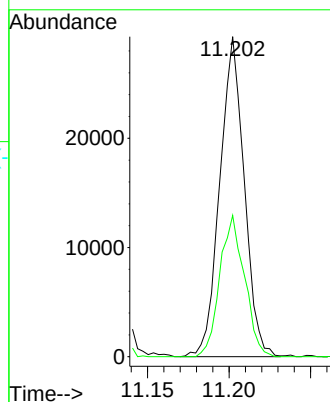
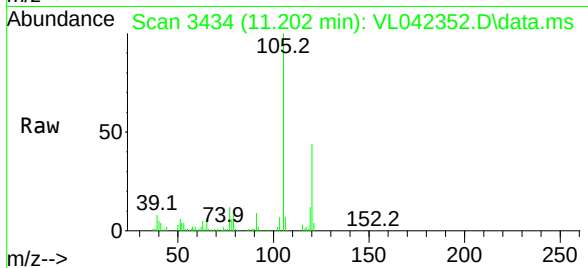
120 44.1 35.6 53.4

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Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#74

1,2,4-Trimethylbenzene

Concen: 0.579 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. -0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Tgt Ion:105 Resp: 37765

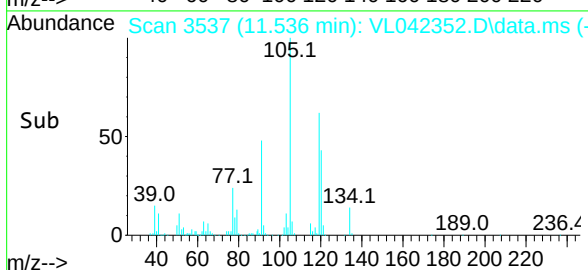
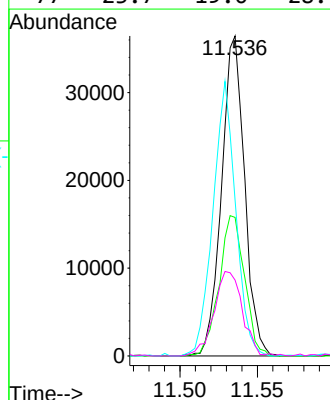
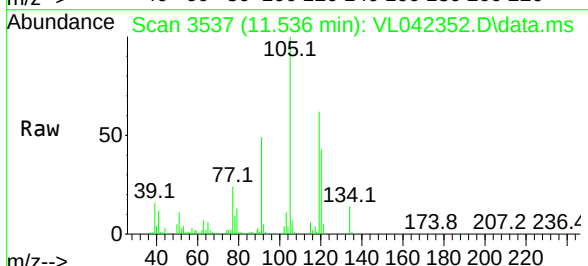
Ion Ratio Lower Upper

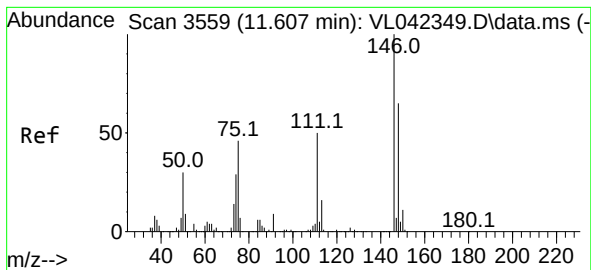
105 100

120 43.3 38.1 57.1

91 48.7 48.8 73.2#

77 23.7 19.0 28.4





#75

1,3-Dichlorobenzene

Concen: 0.531 ppbv

RT: 11.607 min Scan# 3559

Delta R.T. -0.000 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA_L

ClientSampleId :

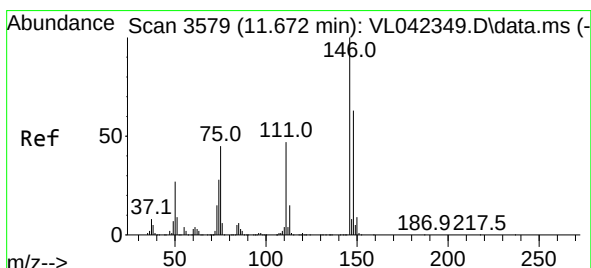
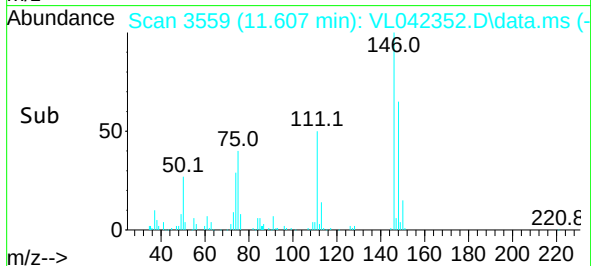
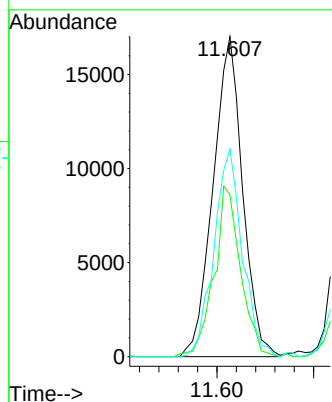
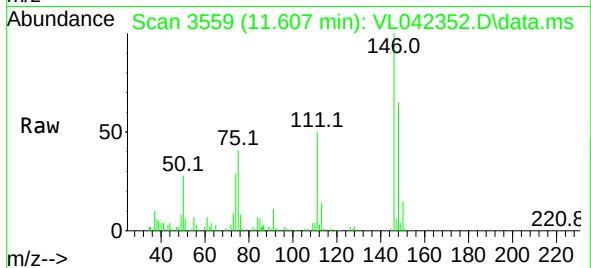
VSTDIC0.5

Tgt Ion:146	Resp:	1800
Ion Ratio	Lower	Upper
146	100	
111	47.9	24.3 72.8
148	62.9	31.6 94.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#76

1,4-Dichlorobenzene

Concen: 0.537 ppbv

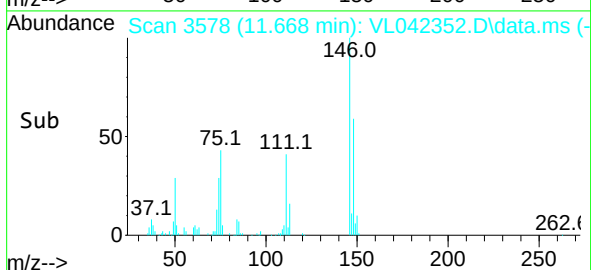
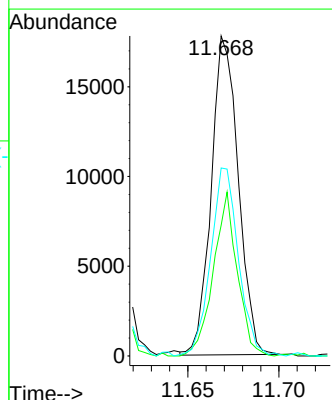
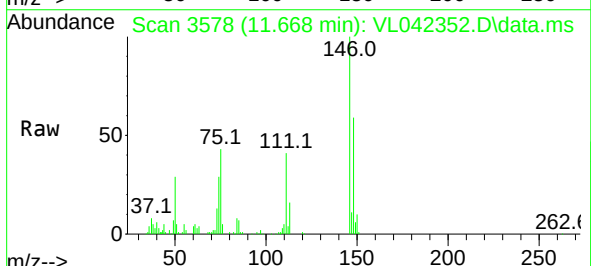
RT: 11.668 min Scan# 3578

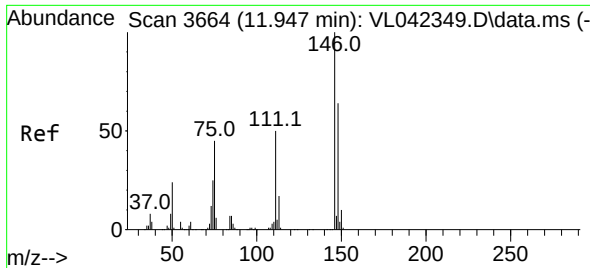
Delta R.T. -0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

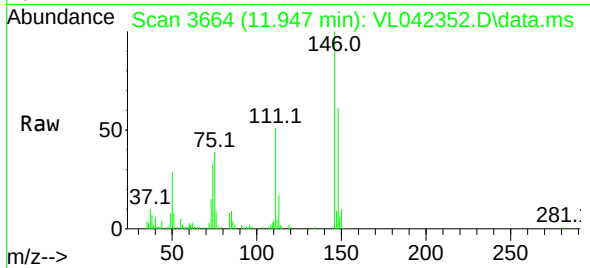
Tgt Ion:146	Resp:	18300
Ion Ratio	Lower	Upper
146	100	
111	45.9	24.2 72.6
148	61.2	32.1 96.5





#77
1,2-Dichlorobenzene
Concen: 0.530 ppbv
RT: 11.947 min Scan# 30
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

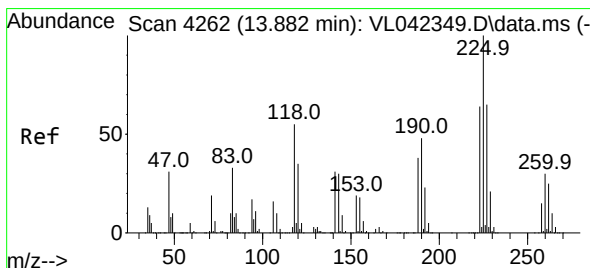
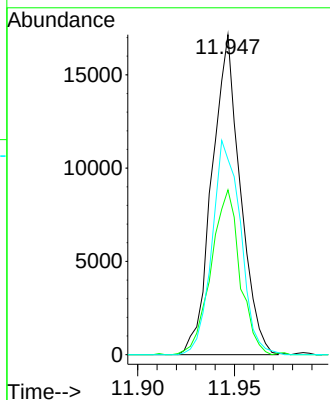
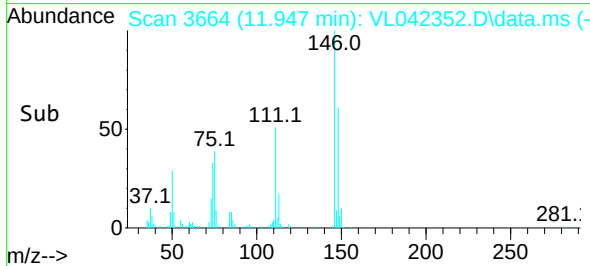
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



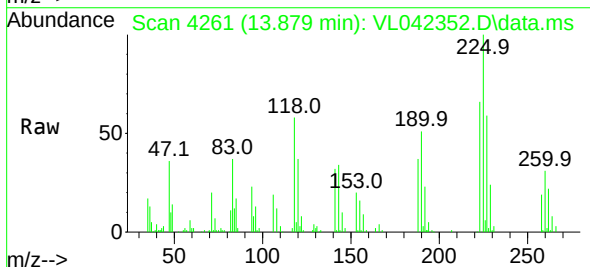
Tgt Ion:146 Resp: 17440
Ion Ratio Lower Upper
146 100
111 52.6 25.3 75.9
148 67.5 31.5 94.5

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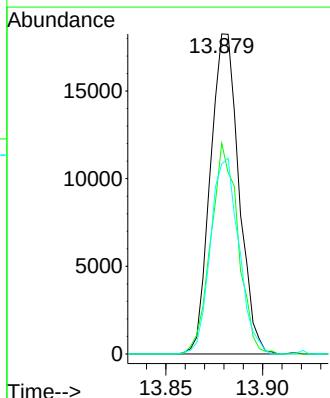
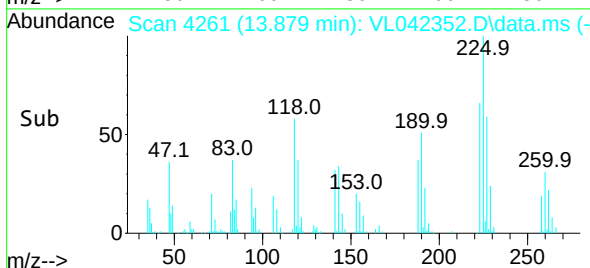
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

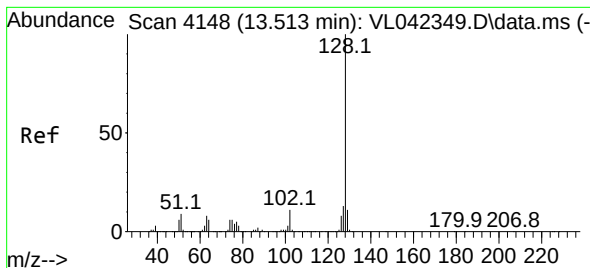


#78
Hexachloro-1,3-Butadiene
Concen: 0.562 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19



Tgt Ion:225 Resp: 18705
Ion Ratio Lower Upper
225 100
223 62.8 50.3 75.5
227 61.1 51.5 77.3





#79

Naphthalene

Concen: 0.494 ppbv

RT: 13.513 min Scan# 4148

Delta R.T. -0.000 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA_L

ClientSampleId :

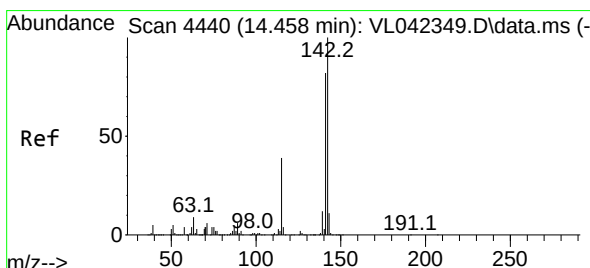
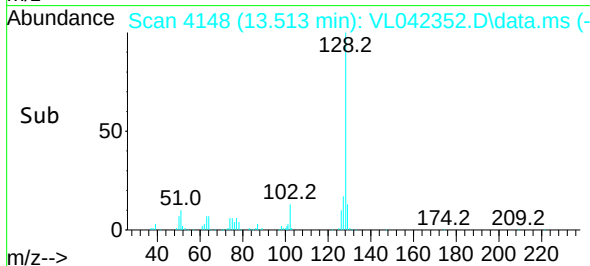
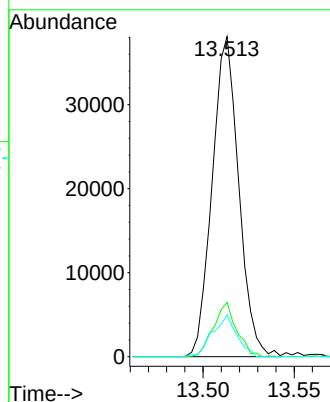
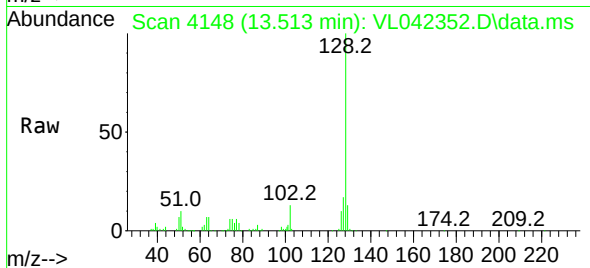
VSTDIC0.5

Tgt Ion:	128	Resp:	3852
Ion Ratio	Lower	Upper	
128	100		
127	17.0	10.6	15.8
129	13.0	8.6	12.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#80

Naphthalene,2-methyl-

Concen: 0.475 ppbv

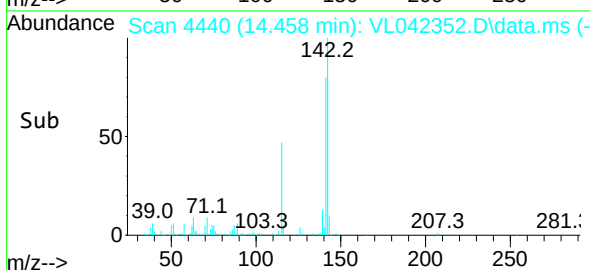
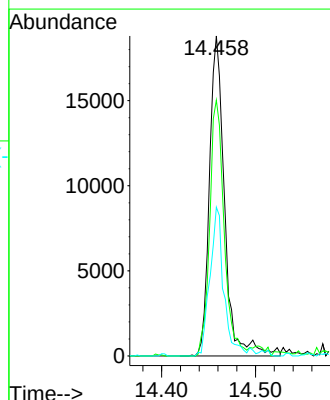
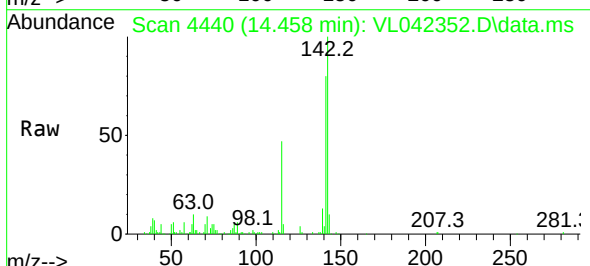
RT: 14.458 min Scan# 4440

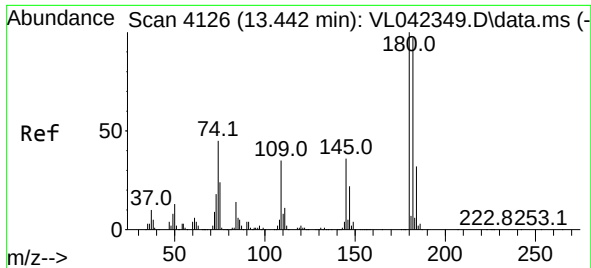
Delta R.T. -0.000 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Tgt Ion:	142	Resp:	21076
Ion Ratio	Lower	Upper	
142	100		
141	79.2	66.8	100.2
115	44.1	33.4	50.2





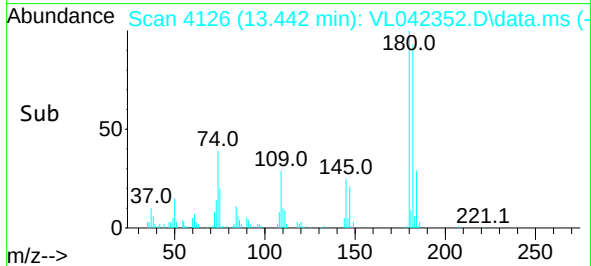
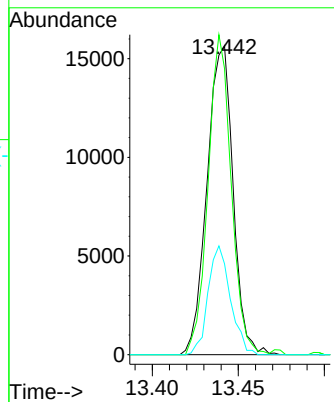
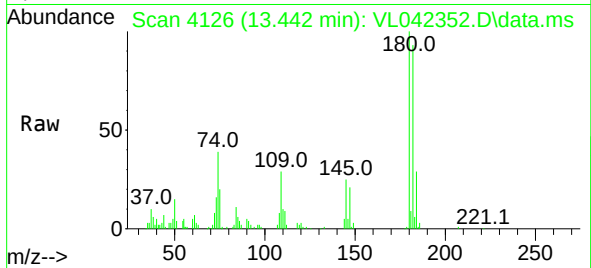
#81
 1,2,4-Trichlorobenzene
 Concen: 0.493 ppbv
 RT: 13.442 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion:180 Resp: 16504
 Ion Ratio Lower Upper
 180 100
 182 92.4 76.8 115.2
 184 30.2 24.6 36.8

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042353.D
 Acq On : 17 Apr 2025 11:50
 Operator : SY/MD
 Sample : VSTDICC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.1

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 01:29:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Fri Apr 18 01:24:29 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.791	49	119461	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	350484	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	315004	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.381	95	256417	9.906	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.100%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.580	62	1088	0.120	ppbv #	74
32) 1,1,1-Trichloroethane	3.367	97	3393m	0.115	ppbv	
35) Carbon Tetrachloride	3.771	117	3204	0.101	ppbv #	94
38) Trichloroethene	4.551	130	1771m	0.107	ppbv	
52) Tetrachloroethene	8.222	164	1583m	0.108	ppbv	
54) 1,2-Dibromoethane	7.662	107	2177m	0.106	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.966	83	3706m	0.113	ppbv	
79) Naphthalene	13.517	128	7664	0.100	ppbv #	92

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

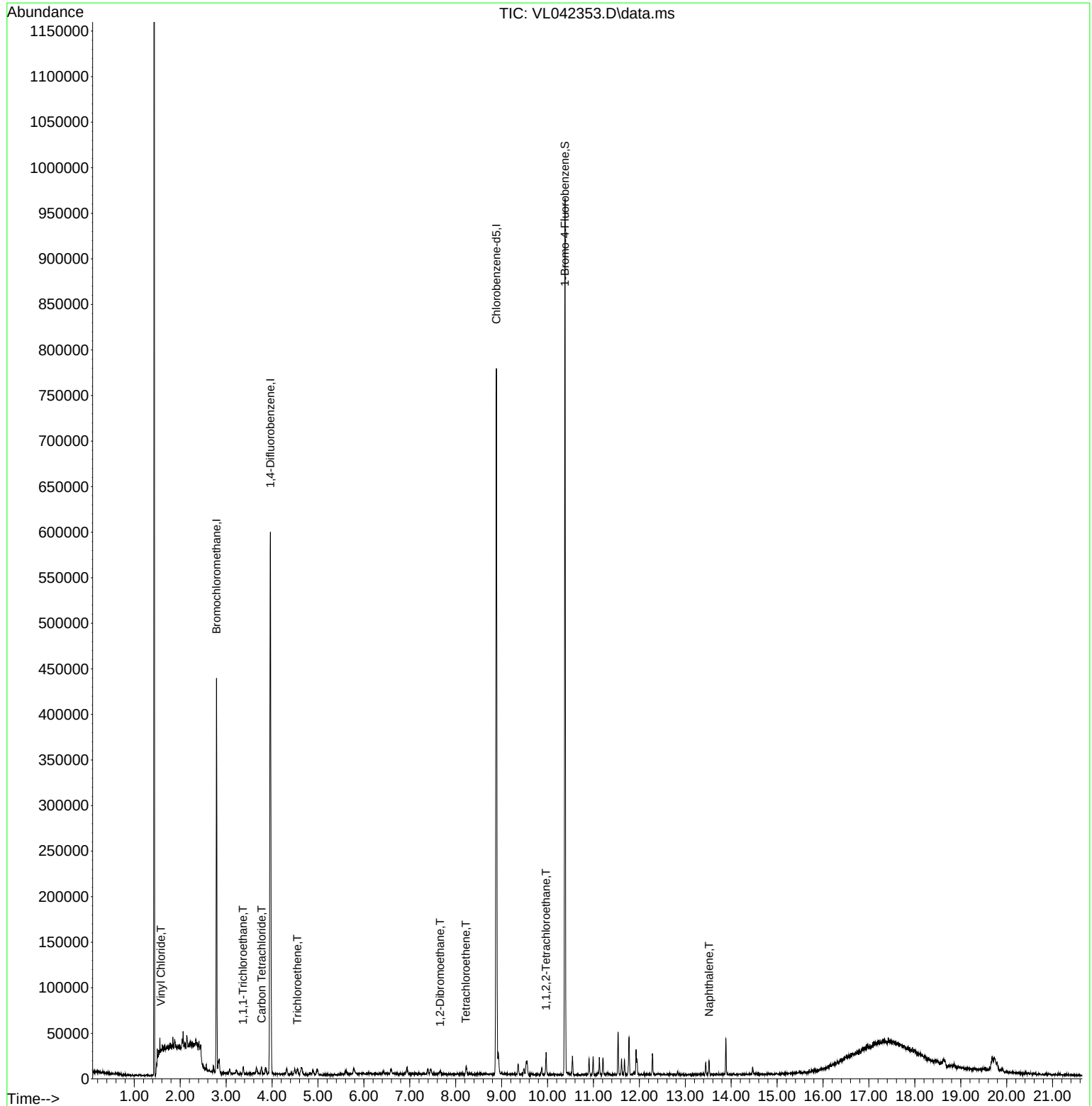
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Data File : VL042353.D
Acq On : 17 Apr 2025 11:50
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

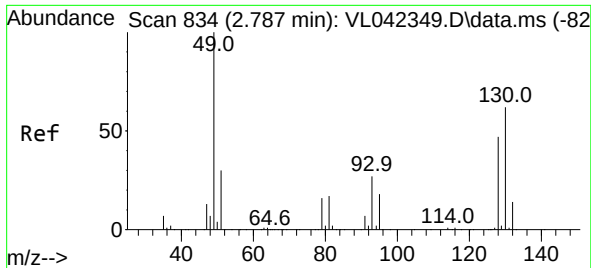
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

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Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

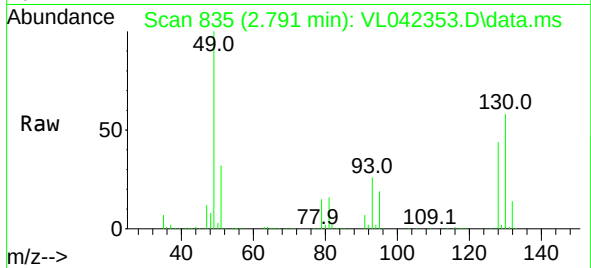
Quant Time: Apr 18 01:29:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.791 min Scan# 834
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

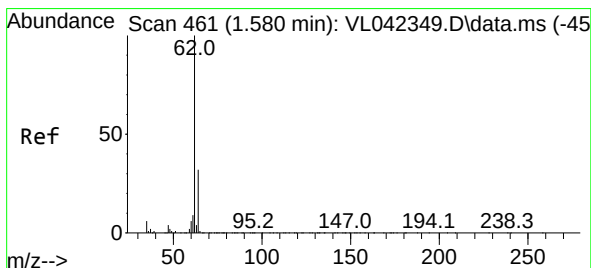
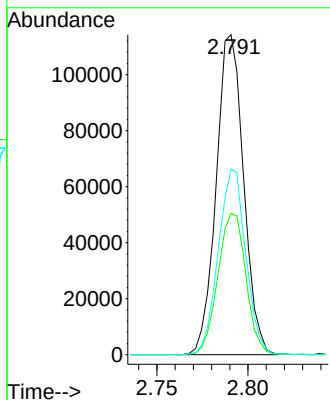
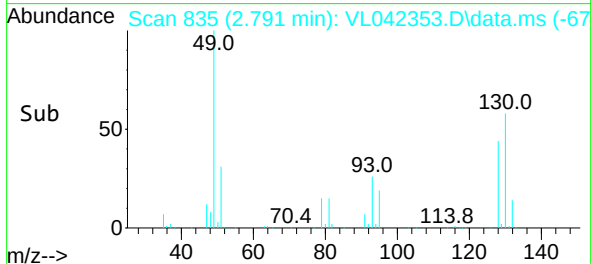
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1



Tgt Ion: 49 Resp: 11946
Ion Ratio Lower Upper
49 100
128 45.3 22.8 68.4
130 58.3 29.3 88.0

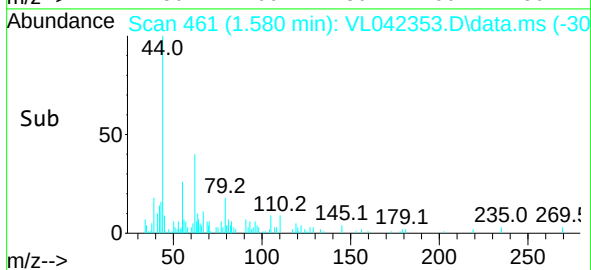
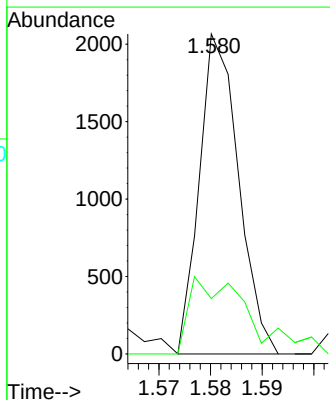
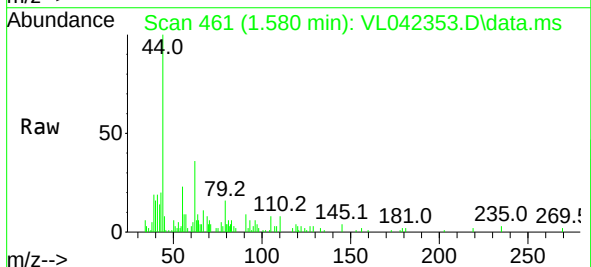
Manual Integrations
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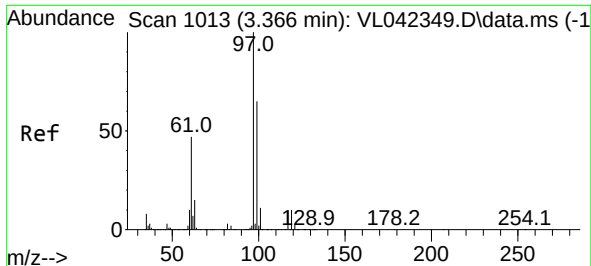
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#5
Vinyl Chloride
Concen: 0.120 ppbv
RT: 1.580 min Scan# 461
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 62 Resp: 1088
Ion Ratio Lower Upper
62 100
64 17.3 25.4 38.0#





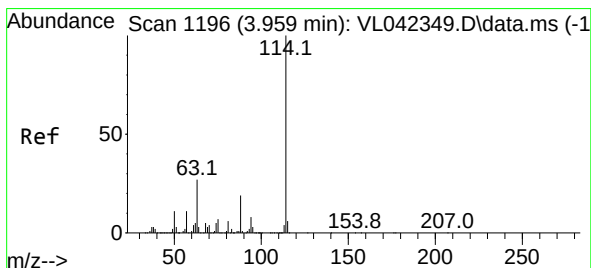
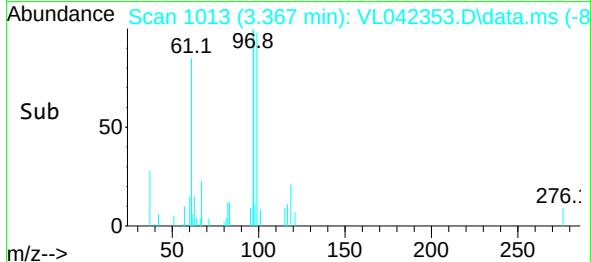
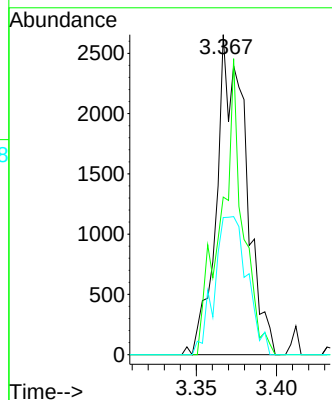
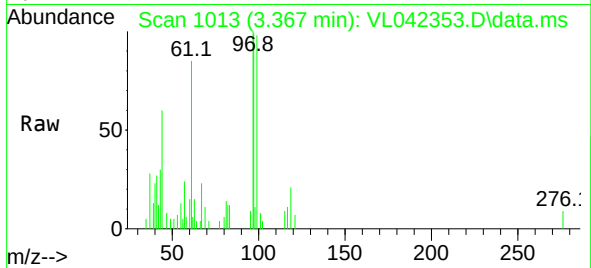
#32
1,1,1-Trichloroethane
Concen: 0.115 ppbv m
RT: 3.367 min Scan# 1013
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

Tgt Ion: 97 Resp: 339
Ion Ratio Lower Upper
97 100
99 68.2 51.0 76.4
61 47.9 38.8 58.2

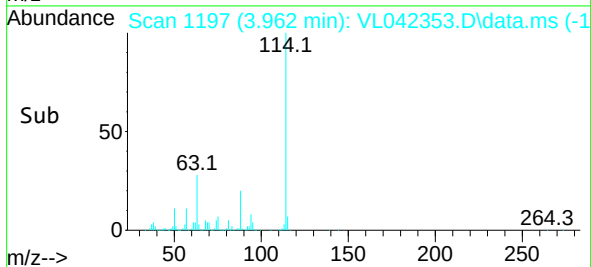
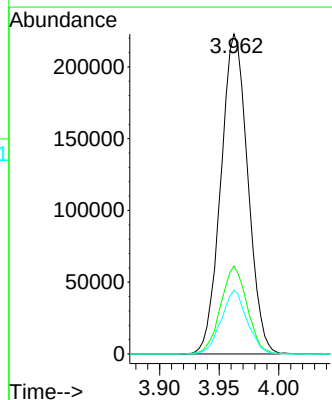
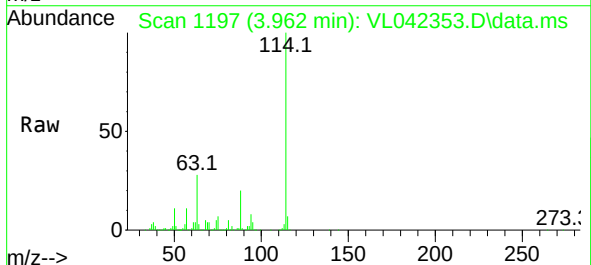
Manual Integrations
APPROVED

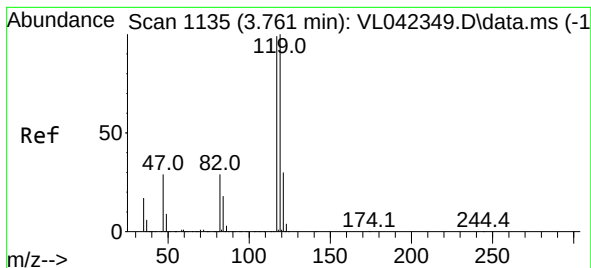
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion:114 Resp: 350484
Ion Ratio Lower Upper
114 100
63 26.9 21.8 32.6
88 19.1 15.5 23.3





#35

Carbon Tetrachloride

Concen: 0.101 ppbv

RT: 3.771 min Scan# 1135

Delta R.T. 0.010 min

Lab File: VL042353.D

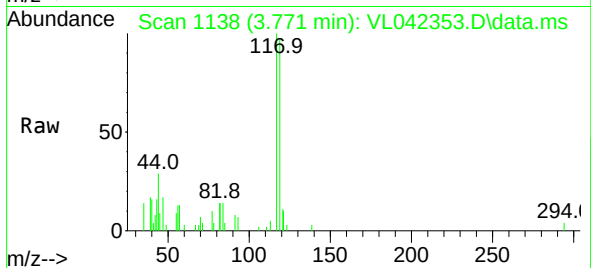
Acq: 17 Apr 2025 11:50

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.1



Tgt Ion:117 Resp: 3204

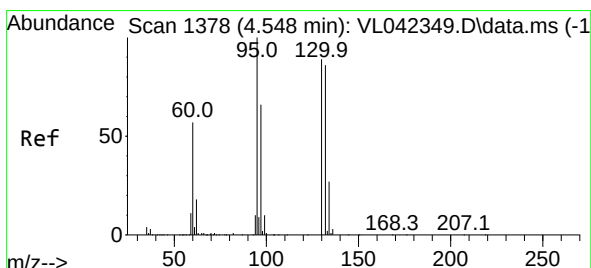
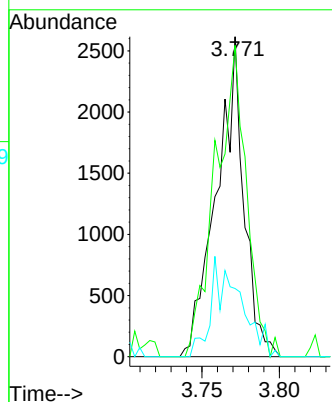
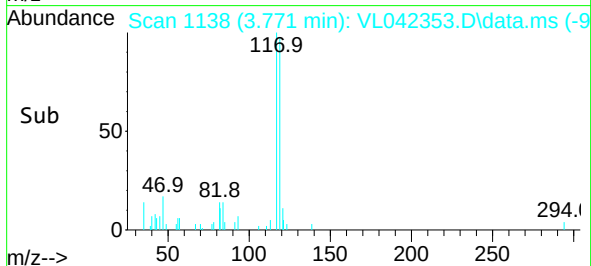
Ion	Ratio	Lower	Upper
117	100		
119	97.3	80.5	120.7
121	21.3	24.2	36.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#38

Trichloroethene

Concen: 0.107 ppbv m

RT: 4.551 min Scan# 1379

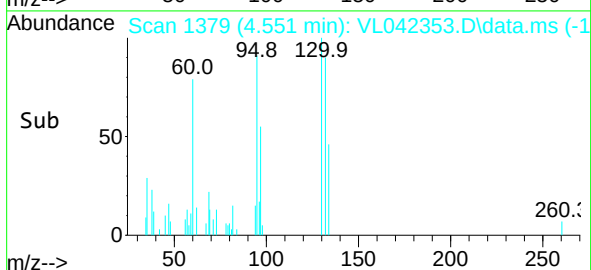
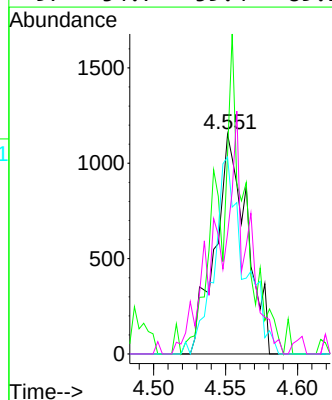
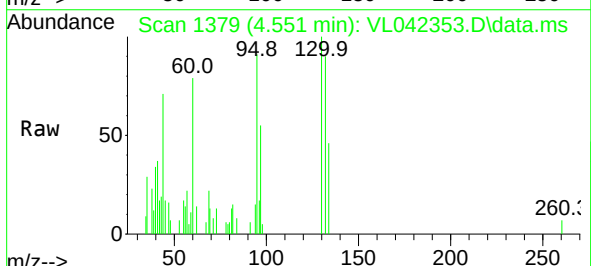
Delta R.T. 0.004 min

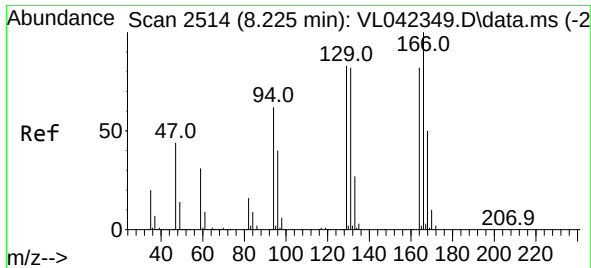
Lab File: VL042353.D

Acq: 17 Apr 2025 11:50

Tgt Ion:130 Resp: 1771

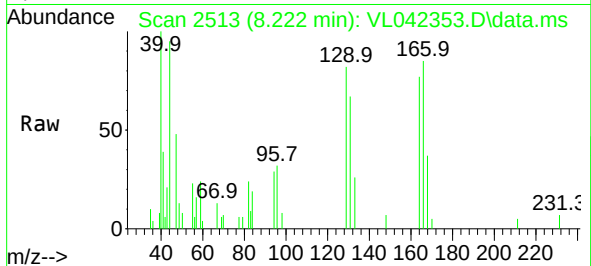
Ion	Ratio	Lower	Upper
130	100		
95	90.9	89.8	134.6
132	89.6	77.7	116.5
97	54.7	59.4	89.2





#52
Tetrachloroethene
Concen: 0.108 ppbv m
RT: 8.222 min Scan# 2513
Delta R.T. -0.003 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

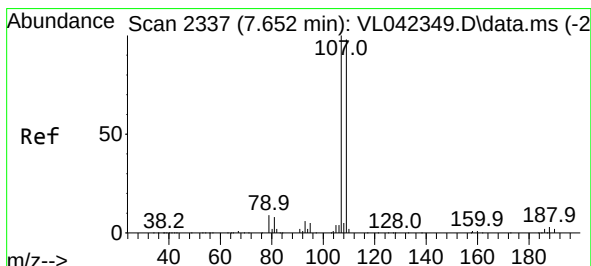
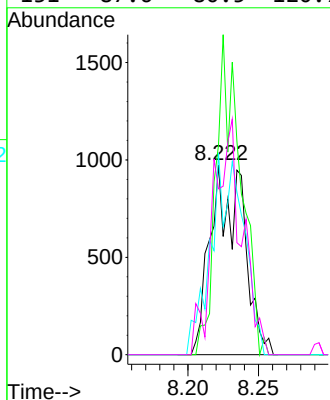
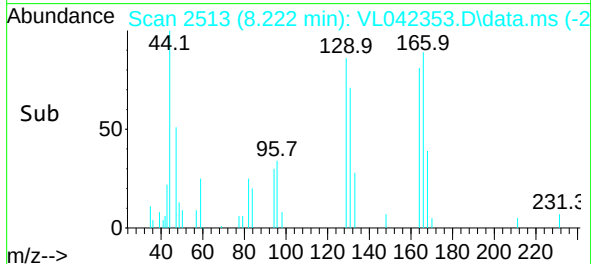
Instrument : MSVOA_L
ClientSampleId : VSTDIC0.1



Tgt Ion:164 Resp: 158
Ion Ratio Lower Upper
164 100
166 110.6 98.2 147.2
129 106.5 81.8 122.8
131 87.6 80.5 120.7

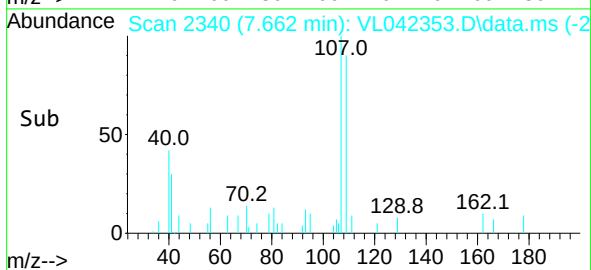
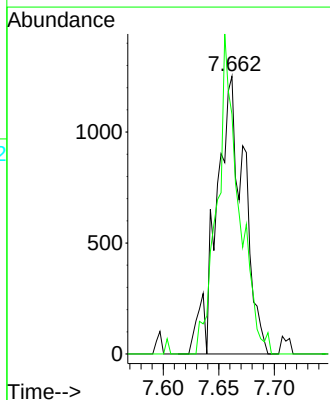
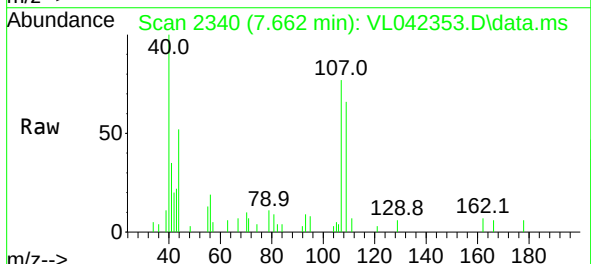
Manual Integrations
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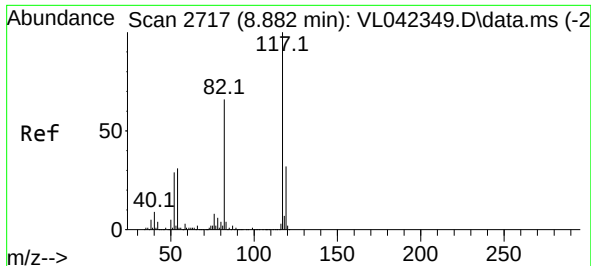
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#54
1,2-Dibromoethane
Concen: 0.106 ppbv m
RT: 7.662 min Scan# 2340
Delta R.T. 0.010 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion:107 Resp: 2177
Ion Ratio Lower Upper
107 100
109 86.3 78.2 117.4





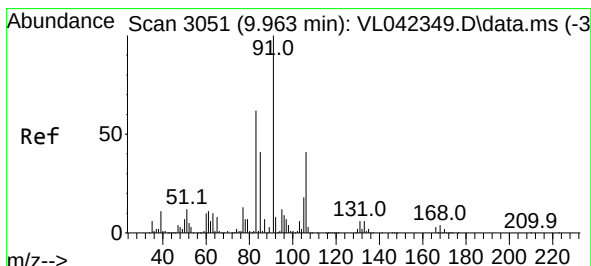
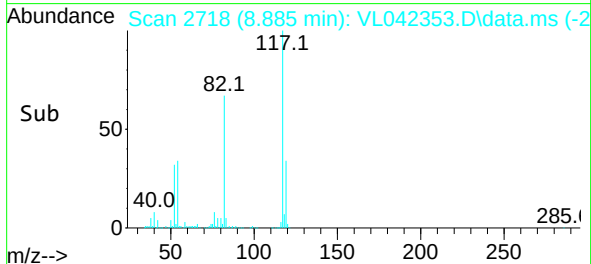
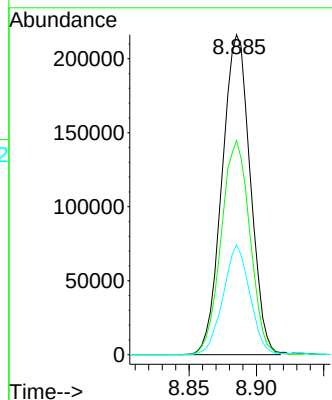
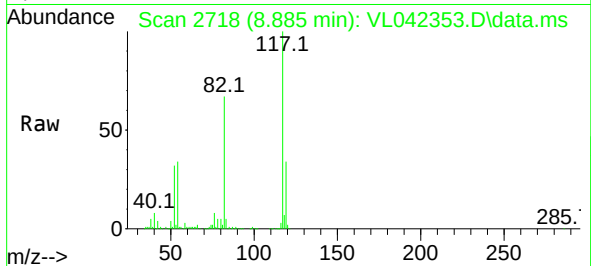
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

Tgt Ion: 117 Resp: 315004
Ion Ratio Lower Upper
117 100
82 68.1 57.8 86.6
119 33.0 25.2 37.8

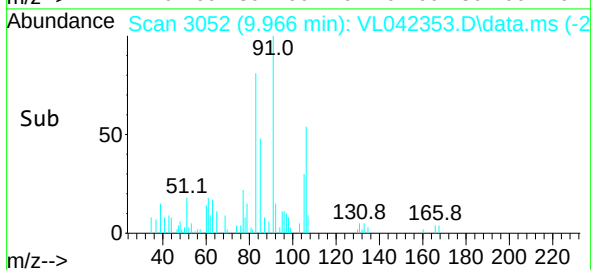
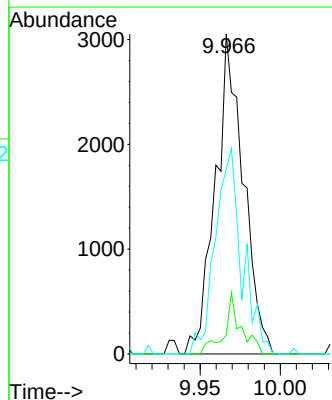
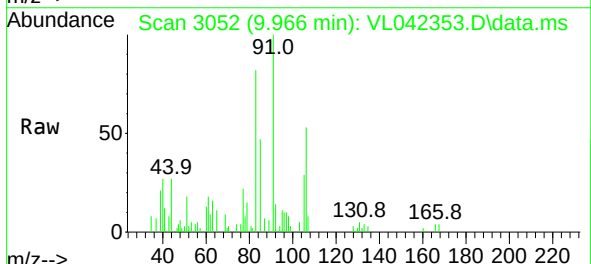
Manual Integrations
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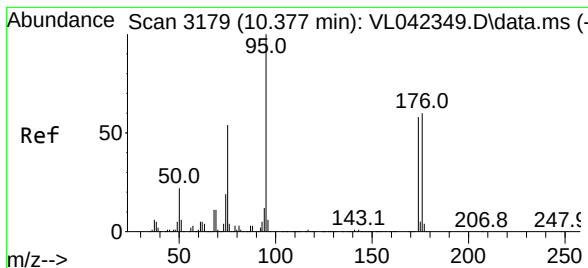
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#63
1,1,2,2-Tetrachloroethane
Concen: 0.113 ppbv m
RT: 9.966 min Scan# 3052
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

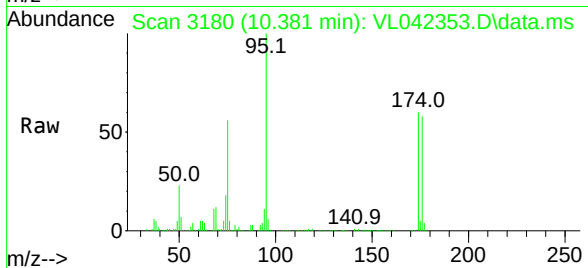
Tgt Ion: 83 Resp: 3706
Ion Ratio Lower Upper
83 100
131 11.2 4.5 13.7
85 61.7 32.4 97.0





#68
1-Bromo-4-Fluorobenzene
Concen: 9.906 ppbv
RT: 10.381 min Scan# 3179
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

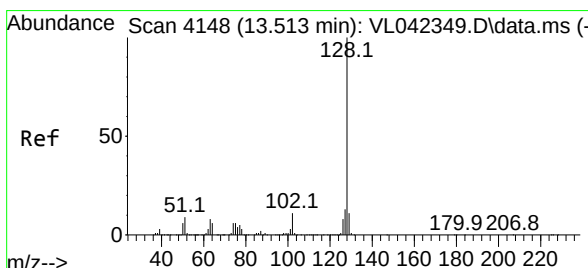
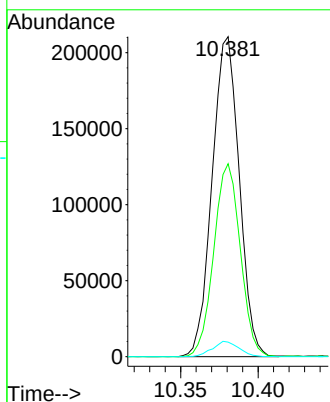
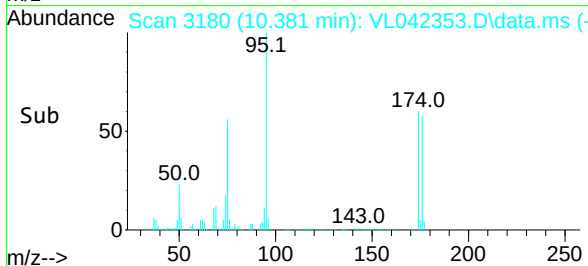
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1



Tgt Ion: 95 Resp: 25641
Ion Ratio Lower Upper
95 100
174 59.3 48.5 72.7
175 4.7 3.7 5.5

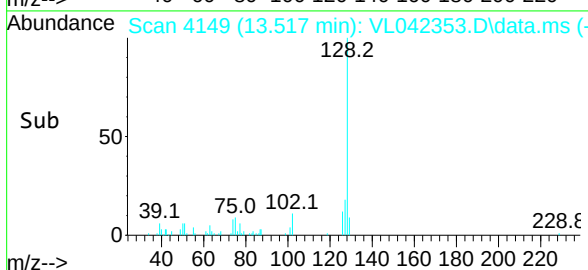
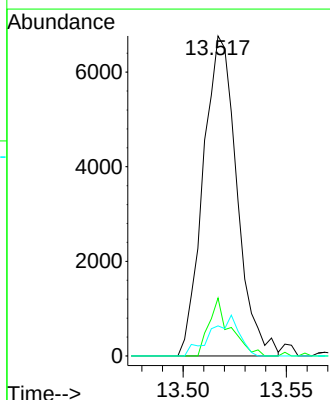
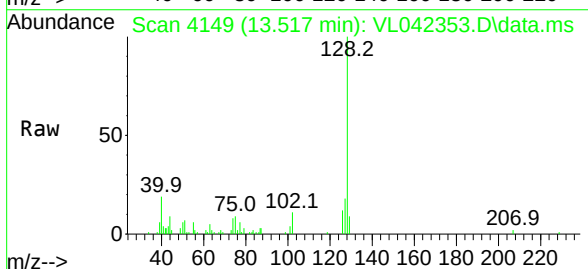
Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#79
Naphthalene
Concen: 0.100 ppbv
RT: 13.517 min Scan# 4149
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion:128 Resp: 7664
Ion Ratio Lower Upper
128 100
127 18.1 10.6 15.8#
129 9.4 8.6 12.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042354.D
 Acq On : 17 Apr 2025 12:22
 Operator : SY/MD
 Sample : VSTDICC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 02:07:48 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Fri Apr 18 01:24:29 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	120042	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	349264	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	312999	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	256230	9.962	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.600%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.583	62	361	0.040	ppbv	# 76
32) 1,1,1-Trichloroethane	3.373	97	1120m	0.038	ppbv	
35) Carbon Tetrachloride	3.768	117	1382m	0.044	ppbv	
38) Trichloroethene	4.538	130	674m	0.041	ppbv	
52) Tetrachloroethene	8.228	164	569m	0.039	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.972	83	1321m	0.040	ppbv	

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

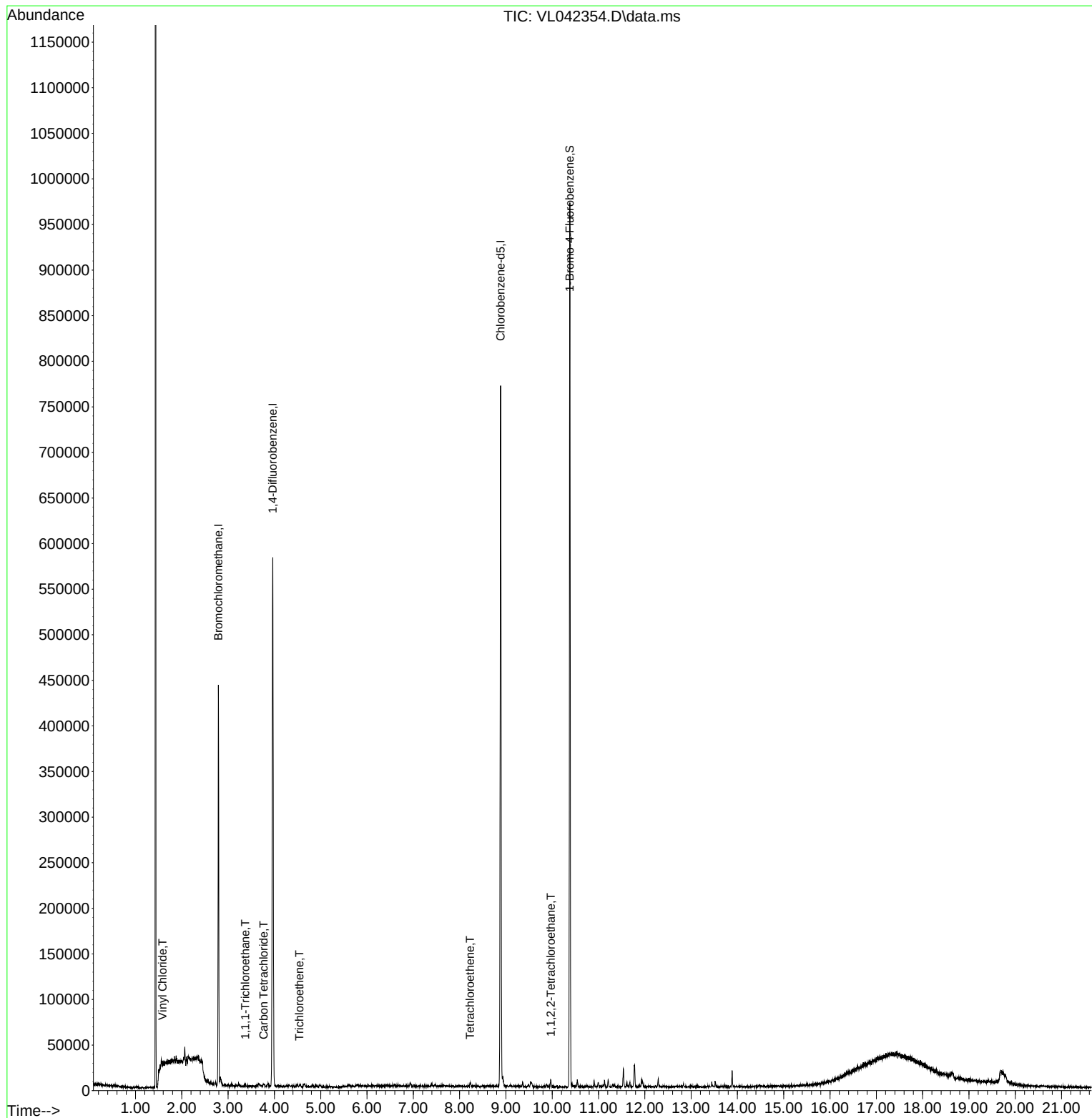
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042354.D
Acq On : 17 Apr 2025 12:22
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

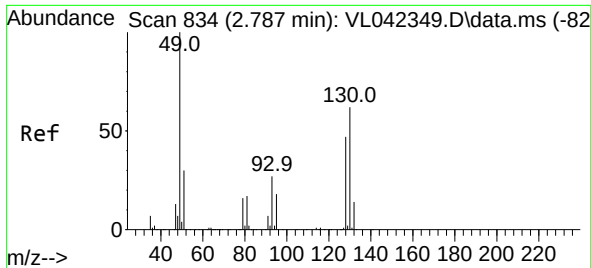
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Quant Time: Apr 18 02:07:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

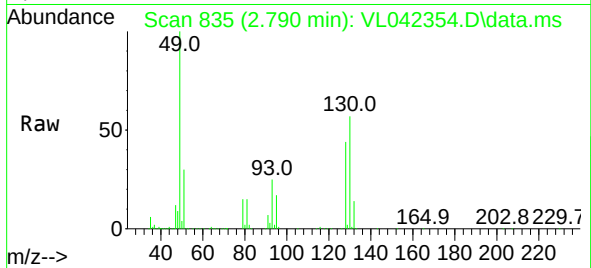
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

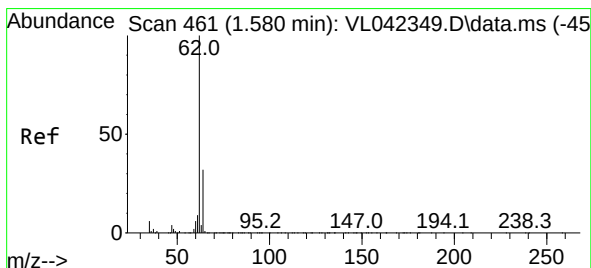
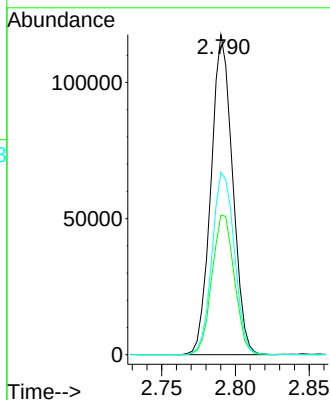
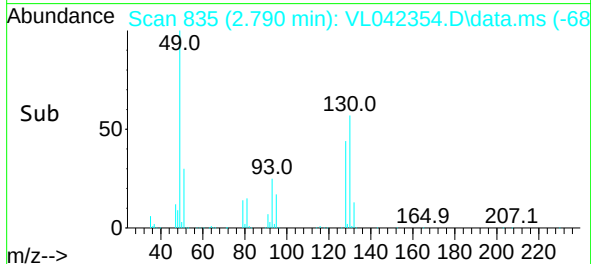
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03



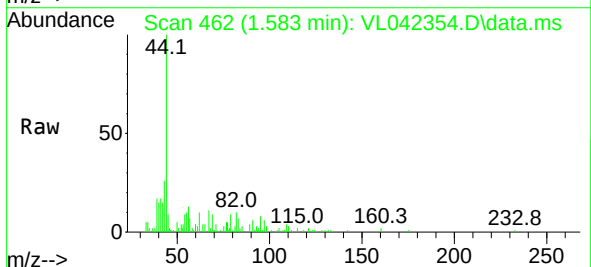
Tgt Ion: 49 Resp: 12004
Ion Ratio Lower Upper
49 100
128 45.3 22.8 68.4
130 59.0 29.3 88.0

Manual Integrations
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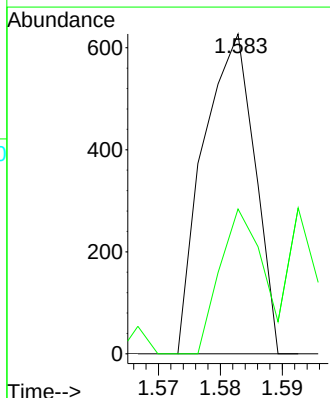
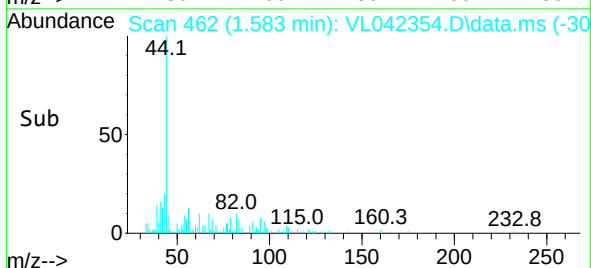
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

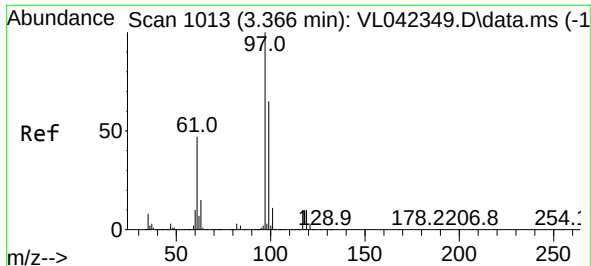


#5
Vinyl Chloride
Concen: 0.040 ppbv
RT: 1.583 min Scan# 462
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22



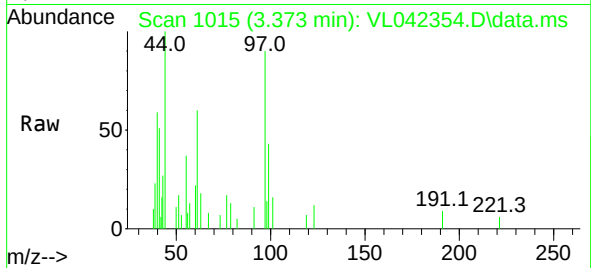
Tgt Ion: 62 Resp: 361
Ion Ratio Lower Upper
62 100
64 45.3 25.4 38.0#





#32
 1,1,1-Trichloroethane
 Concen: 0.038 ppbv m
 RT: 3.373 min Scan# 1015
 Delta R.T. 0.006 min
 Lab File: VL042354.D
 Acq: 17 Apr 2025 12:22

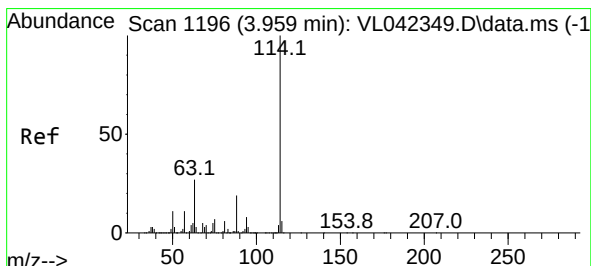
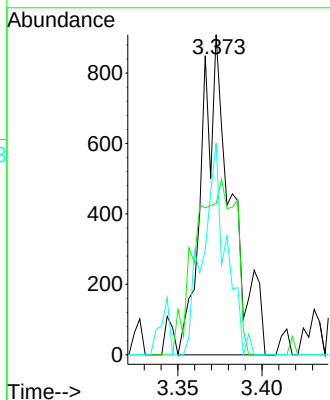
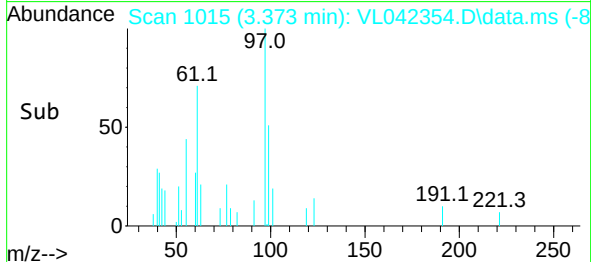
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03



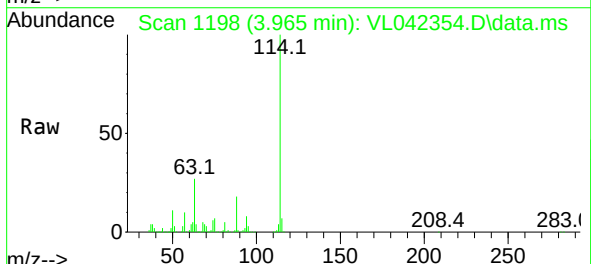
Tgt Ion: 97 Resp: 1120
 Ion Ratio Lower Upper
 97 100
 99 74.4 51.0 76.4
 61 56.9 38.8 58.2

Manual Integrations
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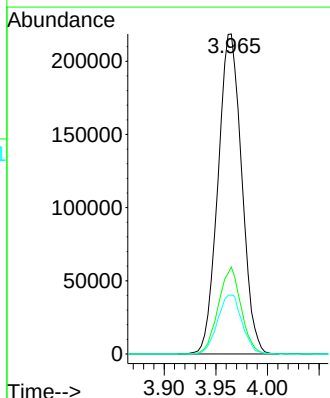
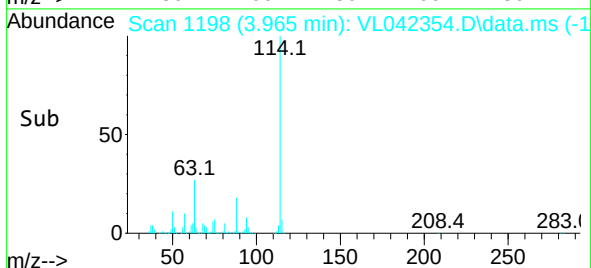
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

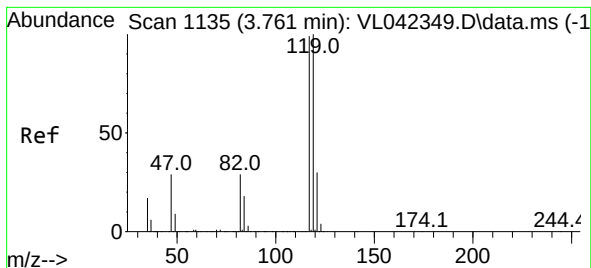


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.965 min Scan# 1198
 Delta R.T. 0.006 min
 Lab File: VL042354.D
 Acq: 17 Apr 2025 12:22



Tgt Ion:114 Resp: 349264
 Ion Ratio Lower Upper
 114 100
 63 26.0 21.8 32.6
 88 19.0 15.5 23.3





#35

Carbon Tetrachloride

Concen: 0.044 ppbv m

RT: 3.768 min Scan# 1135

Delta R.T. 0.006 min

Lab File: VL042354.D

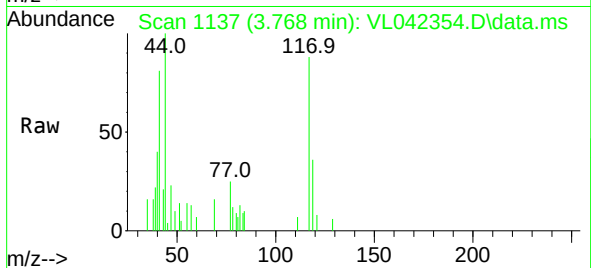
Acq: 17 Apr 2025 12:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.03

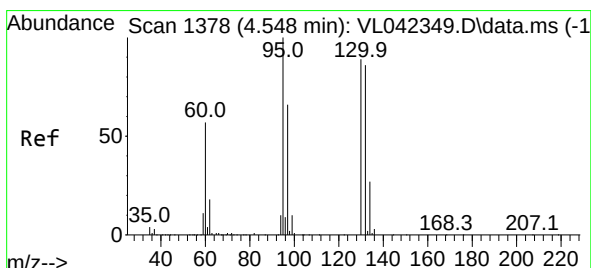
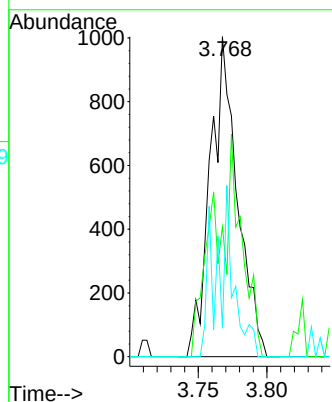
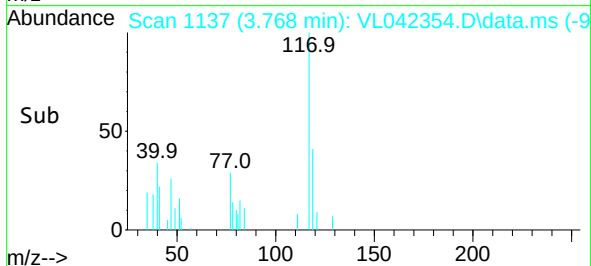


Tgt Ion:	117	Resp:	138
Ion	Ratio	Lower	Upper
117	100		
119	40.6	80.5	120.7
121	9.0	24.2	36.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#38

Trichloroethene

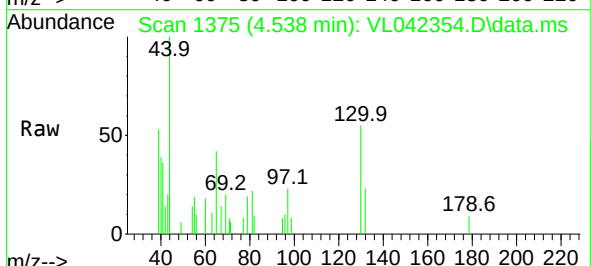
Concen: 0.041 ppbv m

RT: 4.538 min Scan# 1375

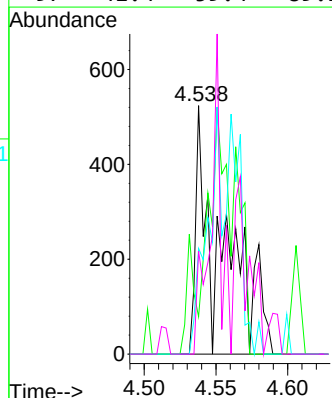
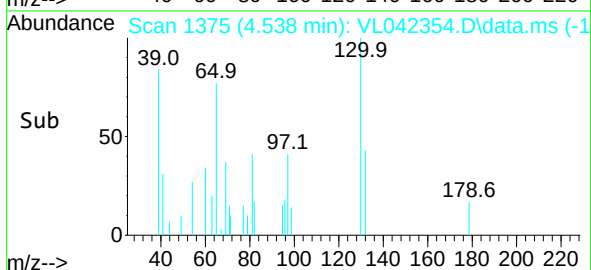
Delta R.T. -0.010 min

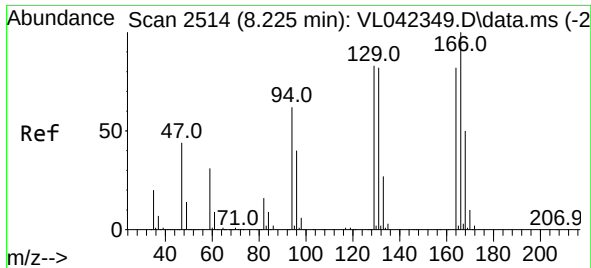
Lab File: VL042354.D

Acq: 17 Apr 2025 12:22



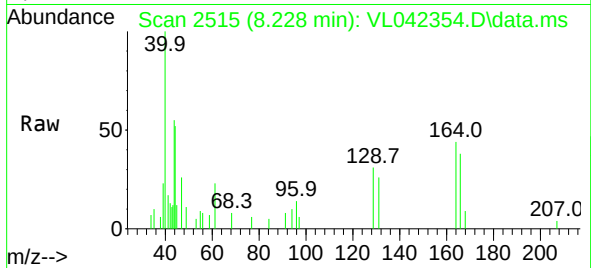
Tgt Ion:	130	Resp:	674
Ion	Ratio	Lower	Upper
130	100		
95	15.1	89.8	134.6#
132	42.6	77.7	116.5#
97	41.4	59.4	89.2#





#52
Tetrachloroethene
Concen: 0.039 ppbv m
RT: 8.228 min Scan# 2514
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

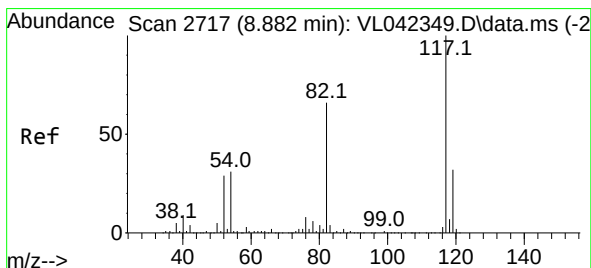
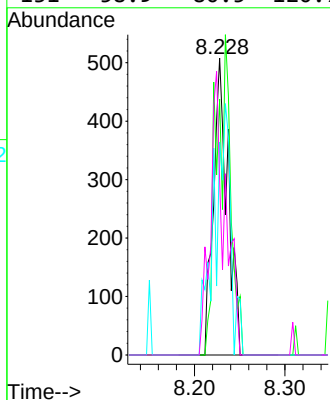
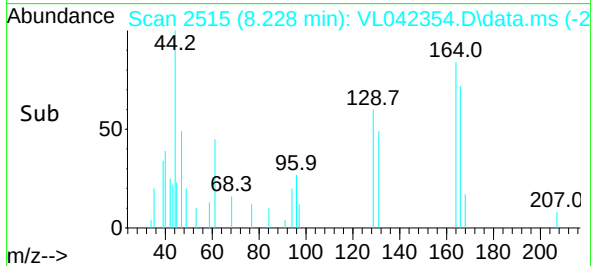
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03



Tgt Ion:164 Resp: 569
Ion Ratio Lower Upper
164 100
166 86.2 98.2 147.2
129 71.7 81.8 122.8
131 58.9 80.5 120.7

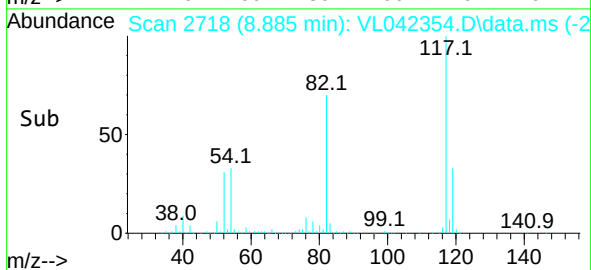
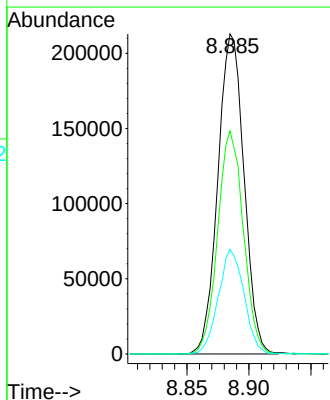
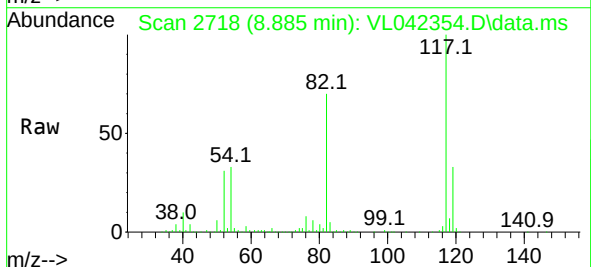
Manual Integrations
APPROVED

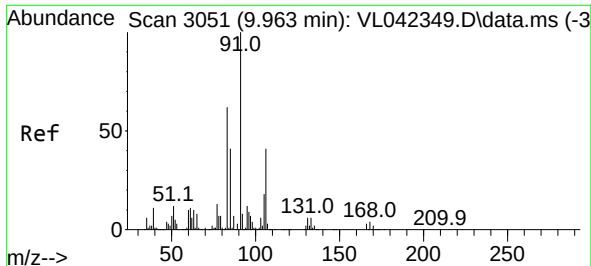
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

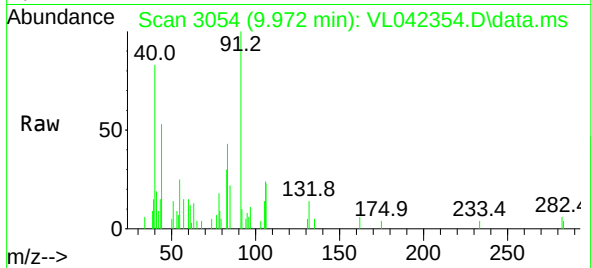
Tgt Ion:117 Resp: 312999
Ion Ratio Lower Upper
117 100
82 68.5 57.8 86.6
119 32.2 25.2 37.8





#63
1,1,2,2-Tetrachloroethane
Concen: 0.040 ppbv m
RT: 9.972 min Scan# 3051
Delta R.T. 0.010 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

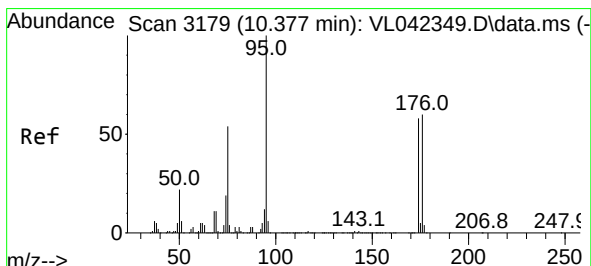
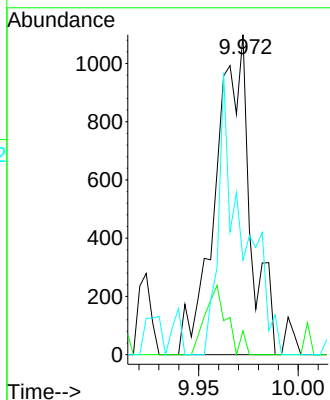
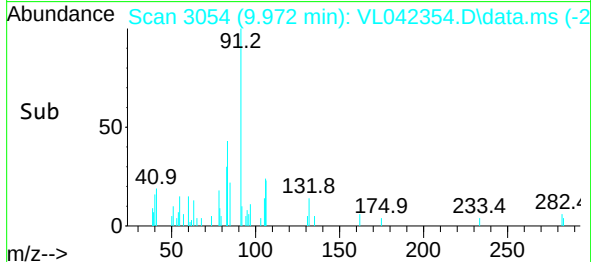
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03



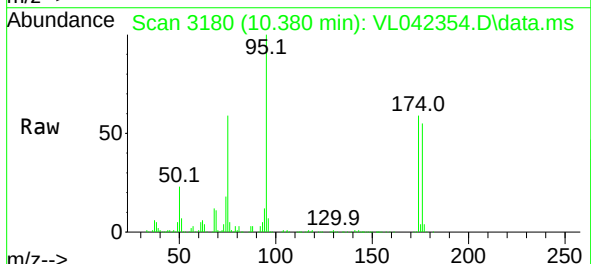
Tgt Ion: 83 Resp: 132
Ion Ratio Lower Upper
83 100
131 13.9 4.5 13.7
85 61.4 32.4 97.0

Manual Integrations
APPROVED

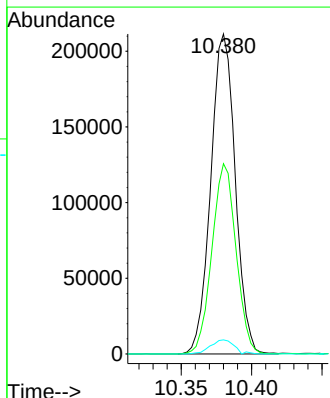
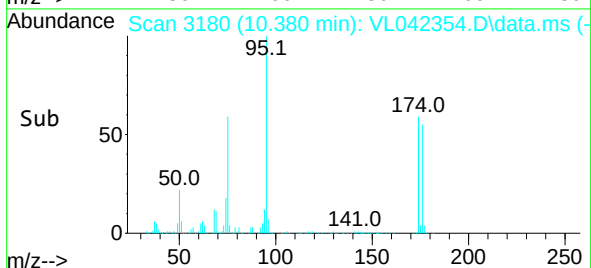
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.962 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22



Tgt Ion: 95 Resp: 256230
Ion Ratio Lower Upper
95 100
174 58.6 48.5 72.7
175 4.3 3.7 5.5



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042355.D
 Acq On : 17 Apr 2025 12:54
 Operator : SY/MD
 Sample : VSTDICC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 01:31:10 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

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

QLast Update : Fri Apr 18 01:24:29 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	116071	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	332080	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	308463	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 254437 10.038 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	292784	14.277	ppbv	99
3) Chlorodifluoromethane	1.477	51	280042	14.341	ppbv	98
4) Chloromethane	1.532	50	115775	14.266	ppbv	99
5) Vinyl Chloride	1.580	62	112650	12.752	ppbv	100
6) Bromomethane	1.667	94	52805	13.800	ppbv	88
7) Chloroethane	1.703	64	44347	13.881	ppbv	98
8) Dichlorotetrafluoroethane	1.554	85	255029	14.484	ppbv	98
9) Propene	1.483	41	123102	13.842	ppbv	95
10) Heptane	4.979	43	336134	14.047	ppbv	100
11) Trichlorofluoromethane	1.875	101	278059	14.258	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.137	101	230366	14.447	ppbv	99
13) Ethanol	1.719	45	6324	8.702	ppbv	76
14) Bromoethene	1.781	108	84851	14.117	ppbv	99
15) Acetone	1.833	43	229086	12.056	ppbv	99
16) 1,3-Butadiene	1.609	39	117997	13.224	ppbv	96
17) tert-Butyl alcohol	2.040	59	320605	13.615	ppbv	99
18) 1,1-Dichloroethene	2.033	96	107666	14.045	ppbv	99
19) Isopropyl Alcohol	1.884	45	139004	13.169	ppbv	94
20) Methylene Chloride	2.059	84	91093	12.241	ppbv	90
21) Allyl Chloride	2.095	41	187995	14.329	ppbv	99
22) trans-1,2-Dichloroethene	2.341	96	118492	13.970	ppbv	94
23) Vinyl Acetate	2.460	43	106135	13.799	ppbv #	98
24) 1,1-Dichloroethane	2.409	63	235466	14.615	ppbv	99
25) Ethyl Acetate	2.836	43	663644	14.166	ppbv	100
26) Hexane	2.826	57	260975	13.765	ppbv	97
27) Carbon Disulfide	2.150	76	299098	14.734	ppbv	97
28) Methyl tert-Butyl Ether	2.438	73	174855	14.076	ppbv	95
29) Chloroform	2.849	83	385686	14.393	ppbv	99
30) Cyclohexane	3.855	84	217375	14.238	ppbv	98
31) cis-1,2-Dichloroethene	2.719	61	264972	14.700	ppbv	98
32) 1,1,1-Trichloroethane	3.367	97	412537	14.357	ppbv	99
34) 2-Butanone	2.558	43	367315	13.986	ppbv	100
35) Carbon Tetrachloride	3.762	117	409916	13.639	ppbv	94
36) Benzene	3.655	78	522156	14.578	ppbv	97
37) 1,2-Dichloroethane	3.218	62	319517	14.863	ppbv	100
38) Trichloroethene	4.548	130	208508	13.278	ppbv	98
39) 1,2-Dichloropropane	4.312	63	189697	14.201	ppbv	97
40) 1,4-Dioxane	4.580	88	92114	12.733	ppbv #	95
41) Tetrahydrofuran	3.053	42	214949	14.166	ppbv	98
42) Bromodichloromethane	4.490	83	442735	14.798	ppbv	95
43) Methyl Methacrylate	4.878	69	219757	13.670	ppbv	95
44) 2,2,4-Trimethylpentane	4.642	57	893529	14.425	ppbv	99
45) t-1,3-Dichloropropene	6.412	75	244470	14.810	ppbv	94

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042355.D
 Acq On : 17 Apr 2025 12:54
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 04/18/2025
 Supervised By : Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 01:31:10 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

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

QLast Update : Fri Apr 18 01:24:29 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.600	75	300145	14.878	ppbv	90
47) 1,1,2-Trichloroethane	6.581	97	198874	14.615	ppbv	98
48) Dibromochloromethane	7.390	129	362887	15.105	ppbv	98
49) Bromoform	9.484	173	312282	14.865	ppbv	99
50) 4-Methyl-2-Pentanone	5.749	43	563658	12.889	ppbv	99
51) 2-Hexanone	7.435	43	467001	11.834	ppbv #	98
52) Tetrachloroethene	8.225	164	180631	13.046	ppbv	97
53) Toluene	6.933	91	619420	14.411	ppbv	99
54) 1,2-Dibromoethane	7.652	107	280071	14.442	ppbv	92
56) 1,1,1,2-Tetrachloroethane	8.927	131	268626	14.389	ppbv	97
57) Chlorobenzene	8.921	112	454017	14.151	ppbv	97
58) Ethyl Benzene	9.354	91	874424	14.308	ppbv	100
59) m/p-Xylene	9.552	91	1388086m	28.109	ppbv	
60) o-Xylene	9.963	91	689246	13.902	ppbv	99
61) Styrene	9.872	104	339508	14.347	ppbv	99
62) Isopropylbenzene	10.539	105	1018968	13.999	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.963	83	412898	12.816	ppbv	100
64) n-propylbenzene	10.989	120	260812	14.255	ppbv	94
65) tert-Butylbenzene	11.533	119	899720	13.449	ppbv	93
66) Benzyl Chloride	11.617	91	96016	13.061	ppbv	96
67) sec-Butylbenzene	11.769	105	1253263	13.468	ppbv	100
69) p-Isopropyltoluene	11.928	119	1081850	13.382	ppbv	99
70) n-Butylbenzene	12.284	91	1117042	13.266	ppbv	100
71) 2-Chlorotoluene	10.902	91	806728	14.131	ppbv	100
72) 4-Ethyltoluene	11.125	105	848077	13.992	ppbv	99
73) 1,3,5-Trimethylbenzene	11.206	105	726558	13.578	ppbv	99
74) 1,2,4-Trimethylbenzene	11.539	105	785772	12.572	ppbv	97
75) 1,3-Dichlorobenzene	11.610	146	444086	13.670	ppbv	99
76) 1,4-Dichlorobenzene	11.672	146	450662	13.802	ppbv	98
77) 1,2-Dichlorobenzene	11.947	146	427372	13.529	ppbv	99
78) Hexachloro-1,3-Butadiene	13.883	225	404441	12.679	ppbv	100
79) Naphthalene	13.514	128	944085	12.632	ppbv	98
80) Naphthalene,2-methyl-	14.459	142	540339	12.686	ppbv	99
81) 1,2,4-Trichlorobenzene	13.442	180	429982	13.398	ppbv	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042355.D
 Acq On : 17 Apr 2025 12:54
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

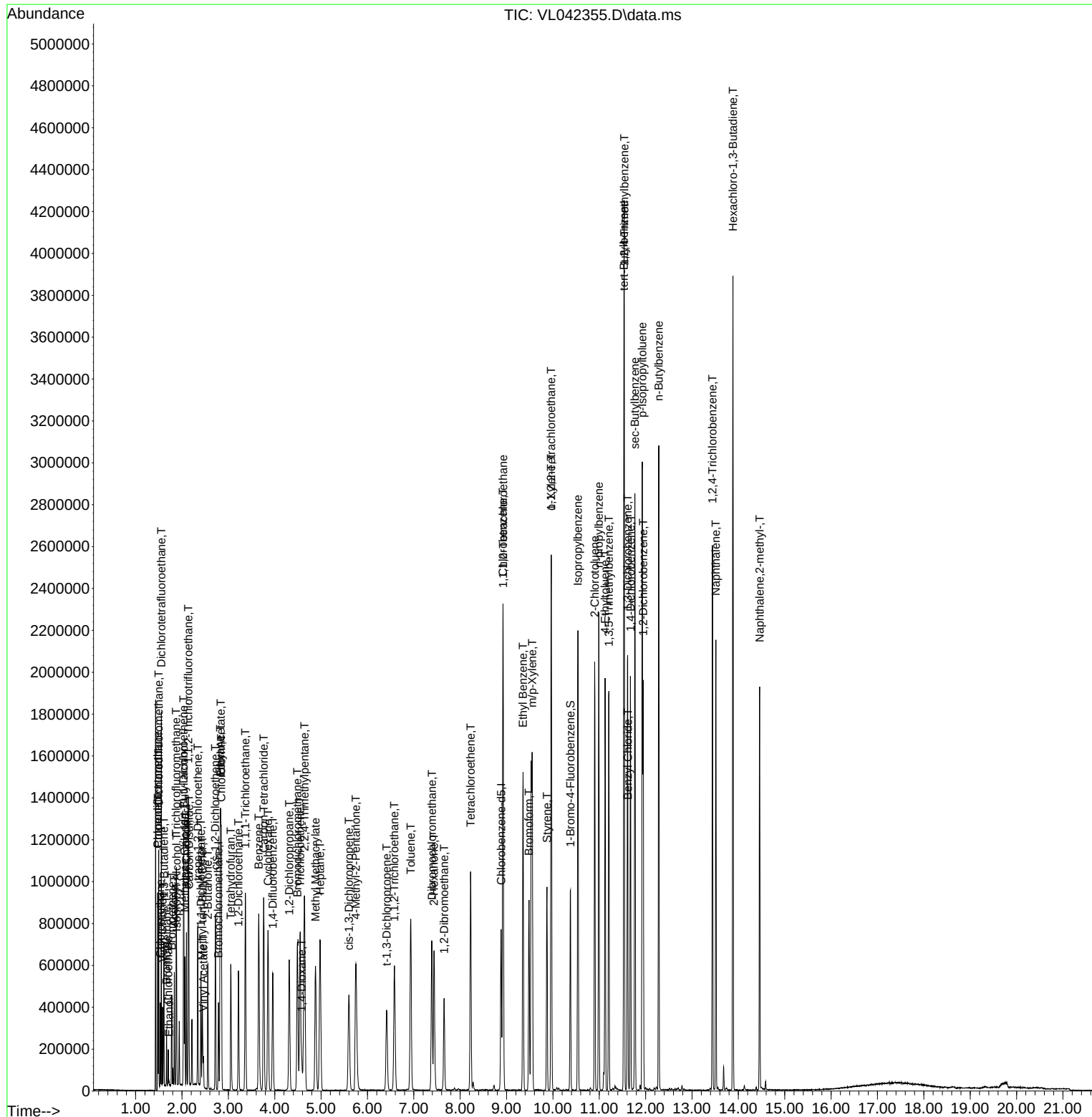
Quant Time: Apr 18 01:31:10 2025

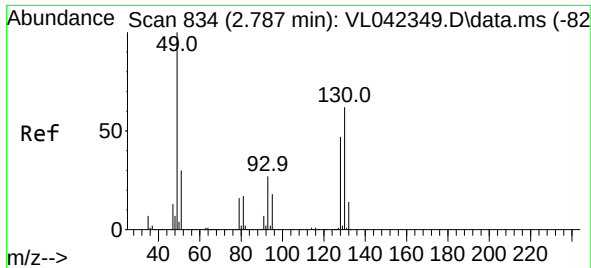
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

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

QLast Update : Fri Apr 18 01:24:29 2025

Response via : Initial Calibration





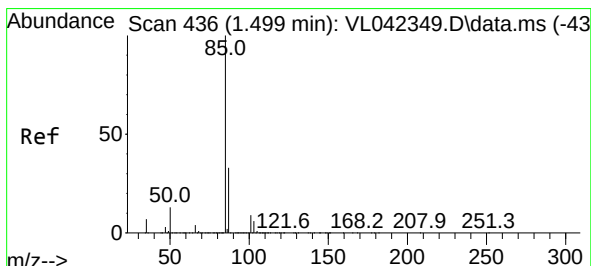
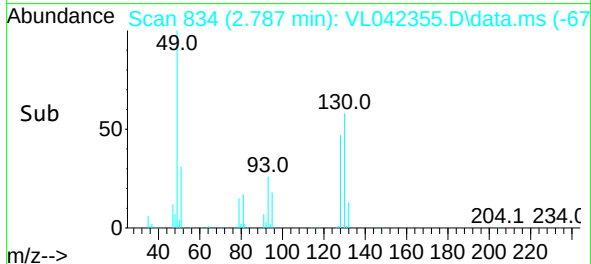
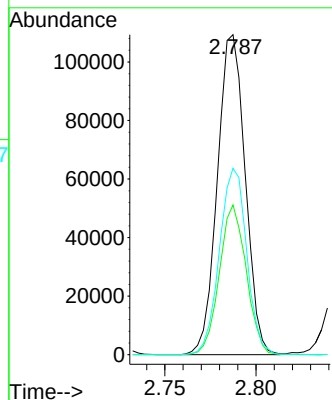
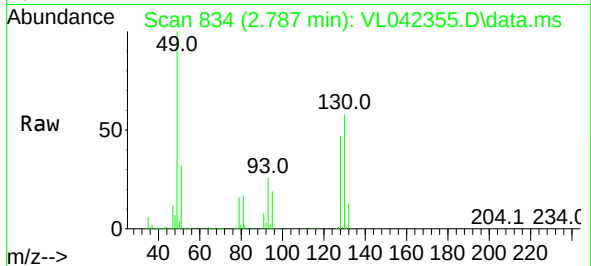
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 834
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 49 Resp: 11607
Ion Ratio Lower Upper
49 100
128 45.1 22.8 68.4
130 57.1 29.3 88.0

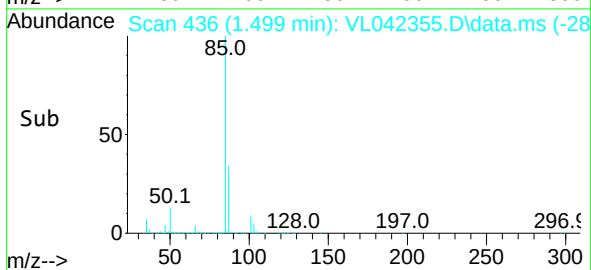
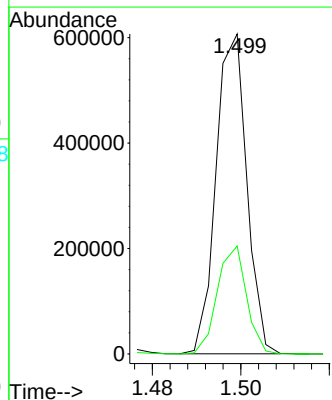
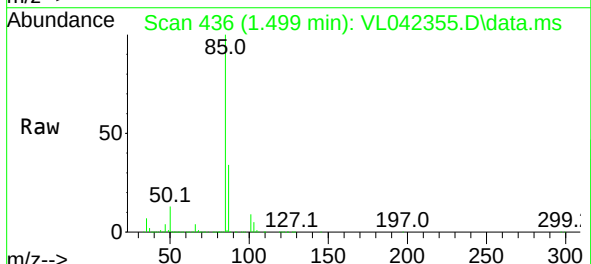
Manual Integrations
APPROVED

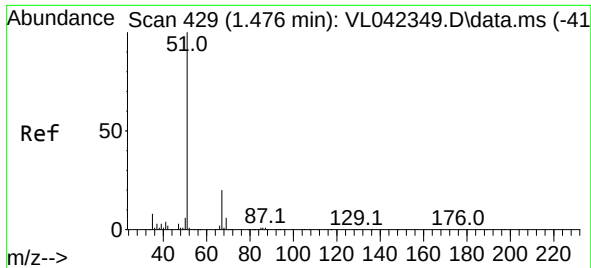
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#2
Dichlorodifluoromethane
Concen: 14.277 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

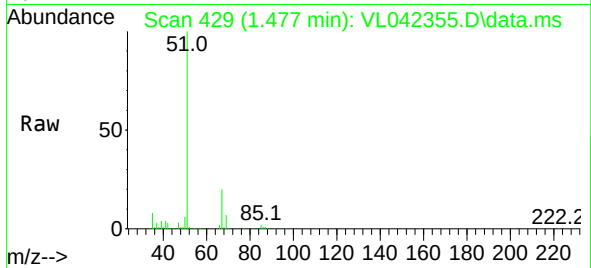
Tgt Ion: 85 Resp: 292784
Ion Ratio Lower Upper
85 100
87 33.8 26.6 39.8





#3
Chlorodifluoromethane
Concen: 14.341 ppbv
RT: 1.477 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

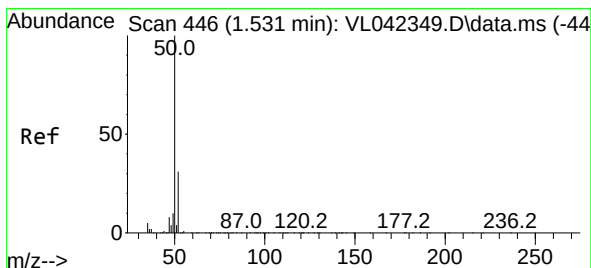
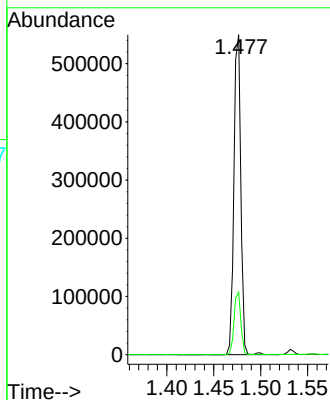
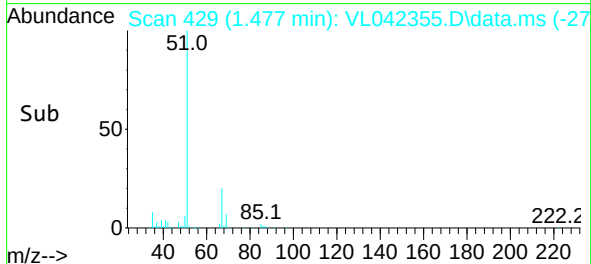
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



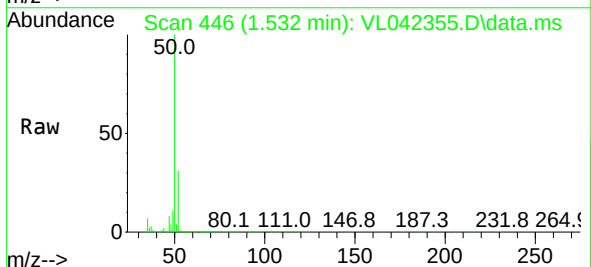
Tgt Ion: 51 Resp: 28004
Ion Ratio Lower Upper
51 100
67 19.5 16.2 24.4

Manual Integrations
APPROVED

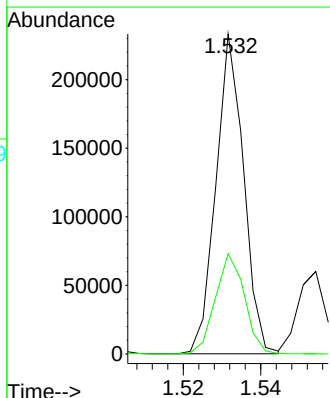
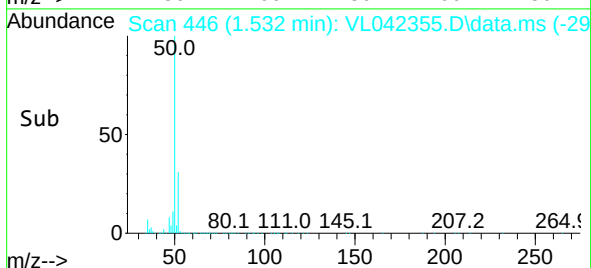
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

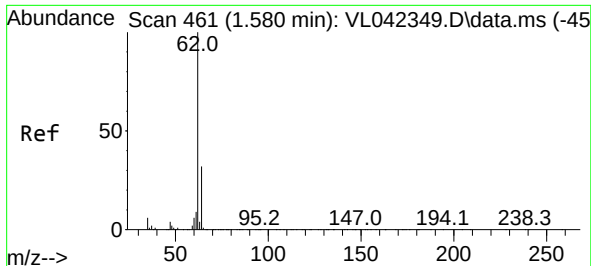


#4
Chloromethane
Concen: 14.266 ppbv
RT: 1.532 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



Tgt Ion: 50 Resp: 115775
Ion Ratio Lower Upper
50 100
52 31.3 24.7 37.1





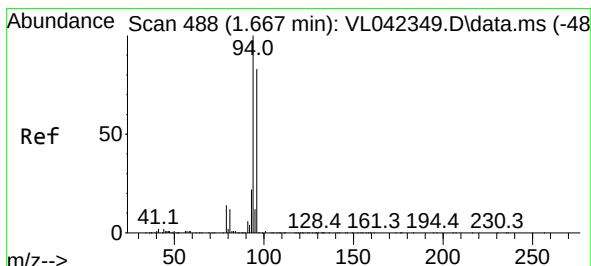
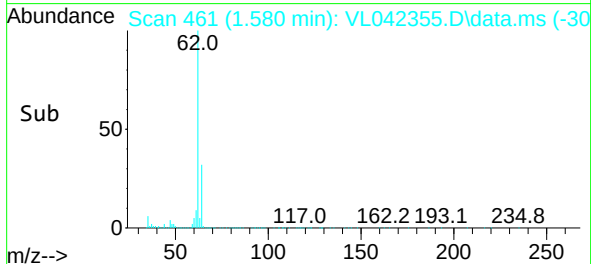
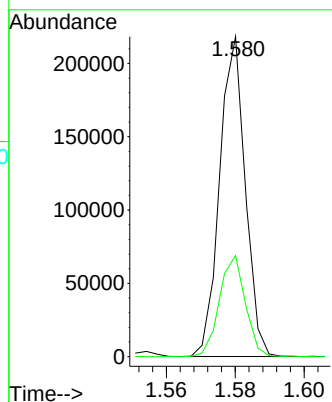
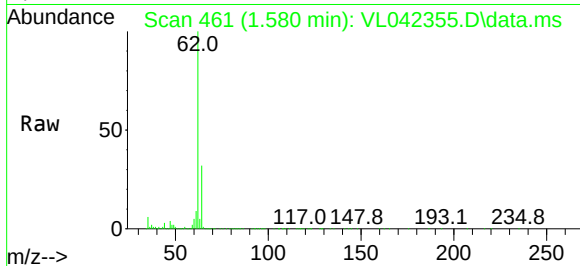
#5
 Vinyl Chloride
 Concen: 12.752 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion: 62 Resp: 112650
 Ion Ratio Lower Upper
 62 100
 64 31.6 25.4 38.0

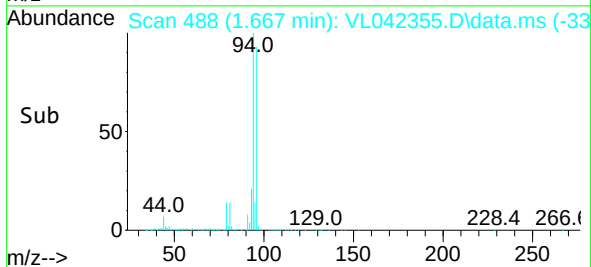
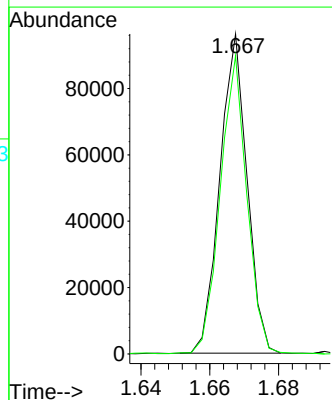
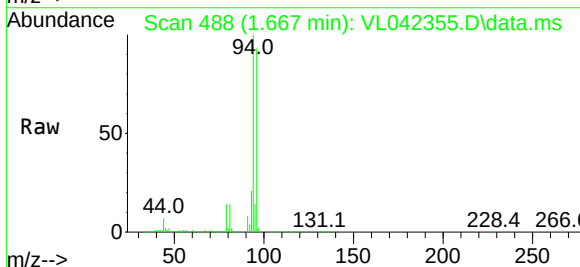
Manual Integrations
 APPROVED

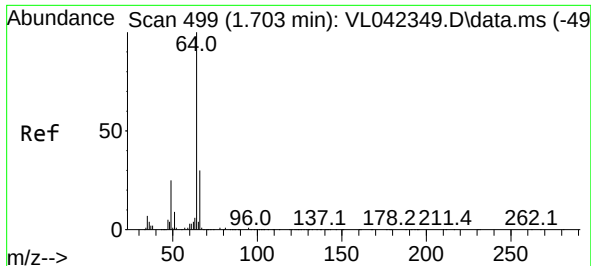
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#6
 Bromomethane
 Concen: 13.800 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

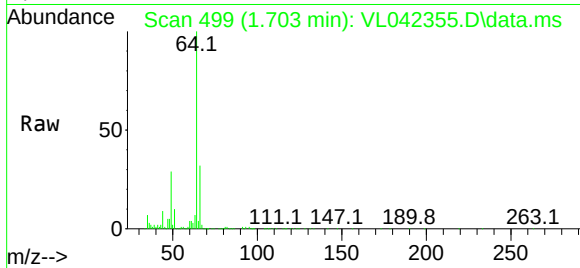
Tgt Ion: 94 Resp: 52805
 Ion Ratio Lower Upper
 94 100
 96 93.1 66.2 99.2





#7
Chloroethane
Concen: 13.881 ppbv
RT: 1.703 min Scan# 499
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

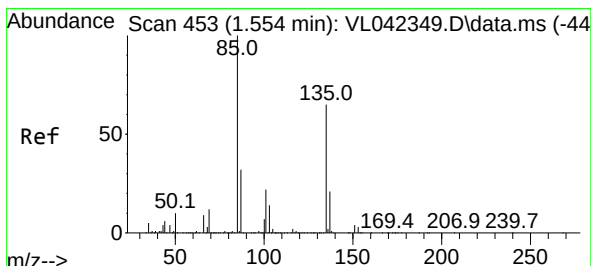
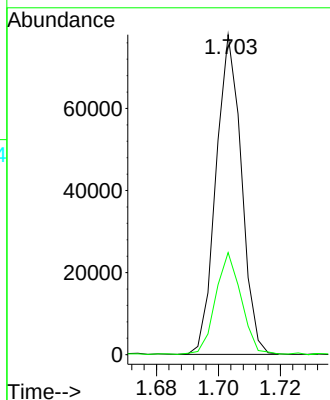
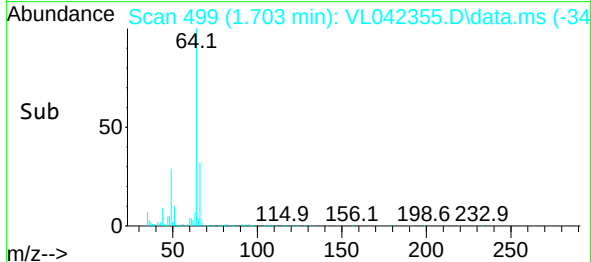
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



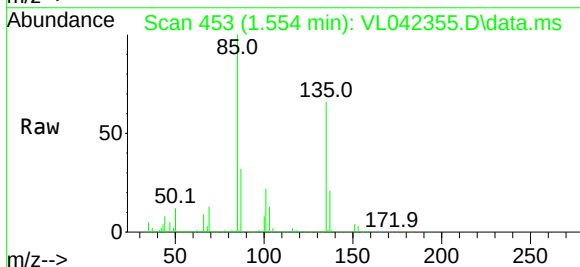
Tgt Ion: 64 Resp: 4434
Ion Ratio Lower Upper
64 100
66 31.9 24.6 37.0

Manual Integrations
APPROVED

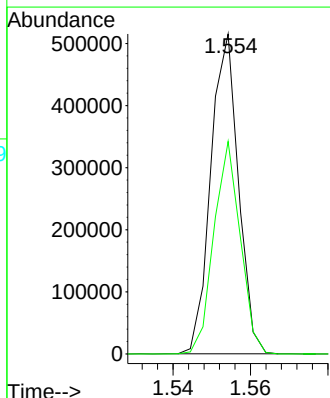
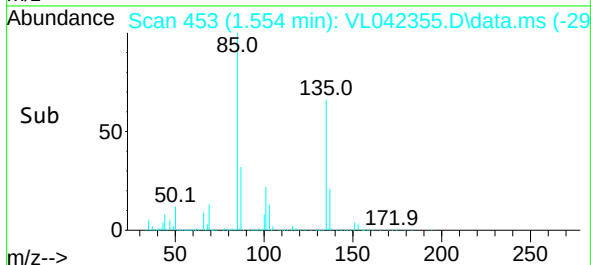
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

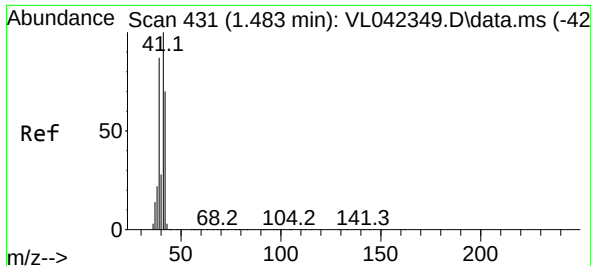


#8
Dichlorotetrafluoroethane
Concen: 14.484 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



Tgt Ion: 85 Resp: 255029
Ion Ratio Lower Upper
85 100
135 63.6 52.2 78.2





#9

Propene

Concen: 13.842 ppbv

RT: 1.483 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 41 Resp: 12310

Ion Ratio Lower Upper

41 100

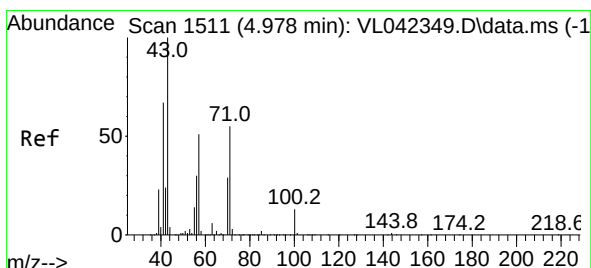
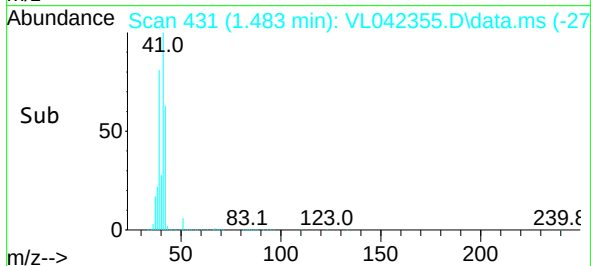
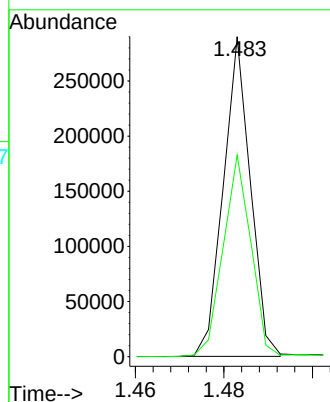
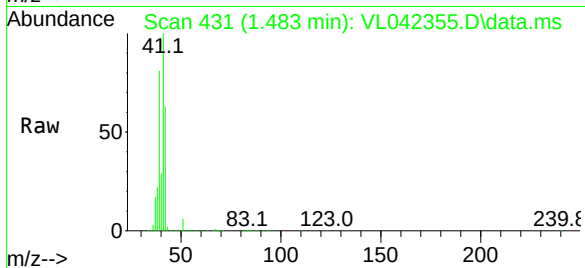
42 66.0 56.2 84.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#10

Heptane

Concen: 14.047 ppbv

RT: 4.979 min Scan# 1511

Delta R.T. 0.000 min

Lab File: VL042355.D

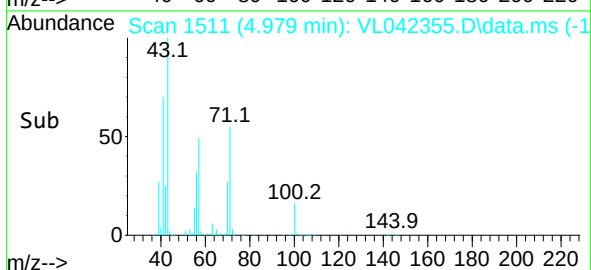
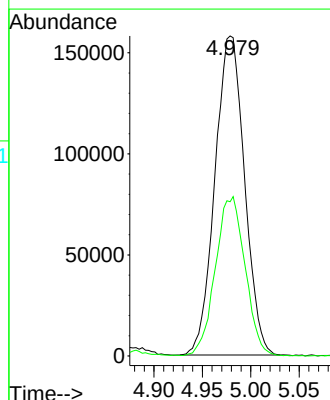
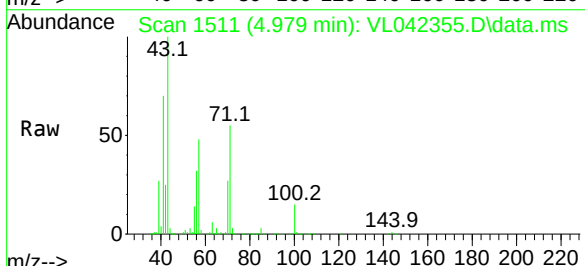
Acq: 17 Apr 2025 12:54

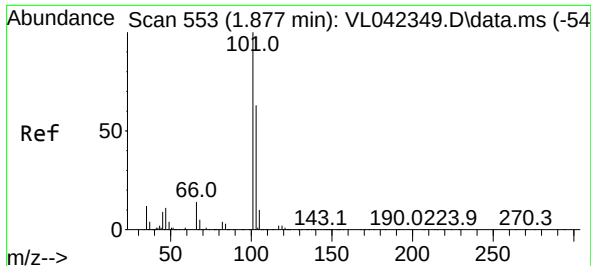
Tgt Ion: 43 Resp: 336134

Ion Ratio Lower Upper

43 100

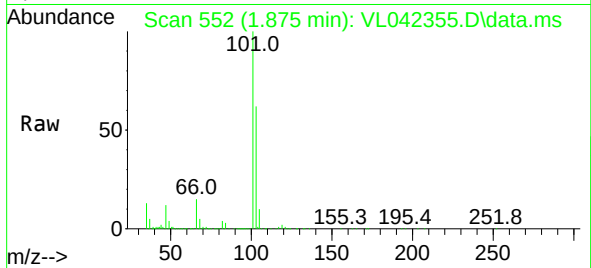
57 50.0 39.9 59.9





#11
Trichlorofluoromethane
Concen: 14.258 ppbv
RT: 1.875 min Scan# 511
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

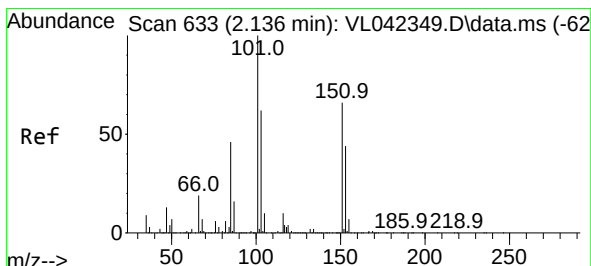
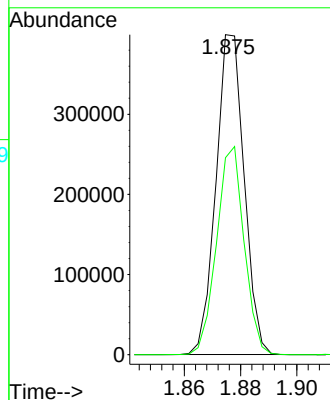
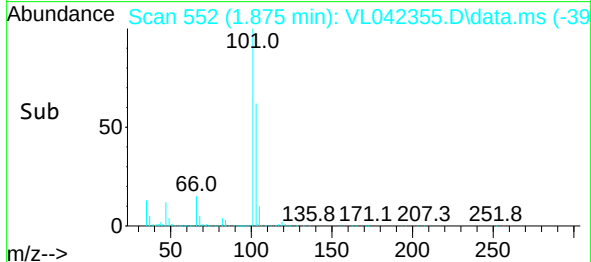
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



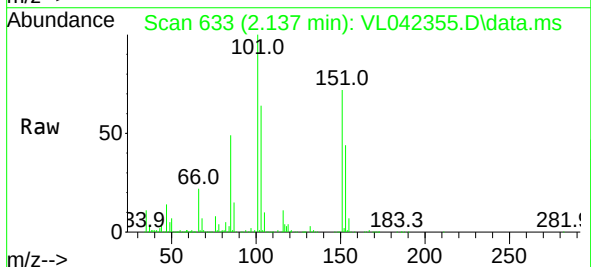
Tgt Ion:101 Resp: 278059
Ion Ratio Lower Upper
101 100
103 61.6 50.1 75.1

Manual Integrations
APPROVED

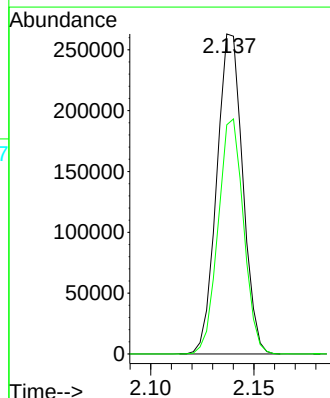
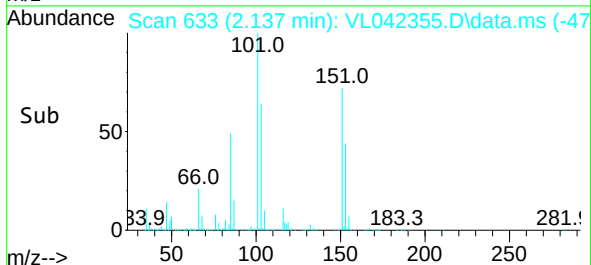
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

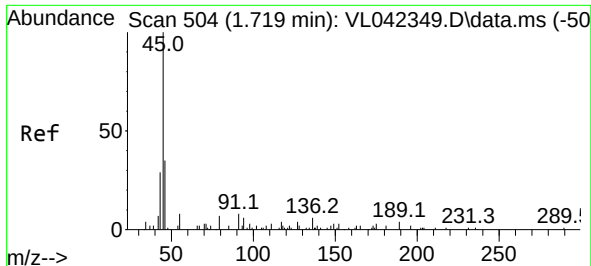


#12
1,1,2-Trichlorotrifluoroethane
Concen: 14.447 ppbv
RT: 2.137 min Scan# 633
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



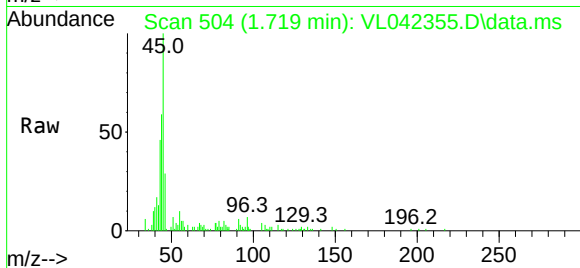
Tgt Ion:101 Resp: 230366
Ion Ratio Lower Upper
101 100
151 71.8 57.0 85.6





#13
Ethanol
Concen: 8.702 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

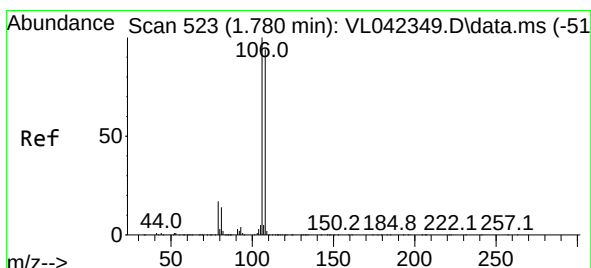
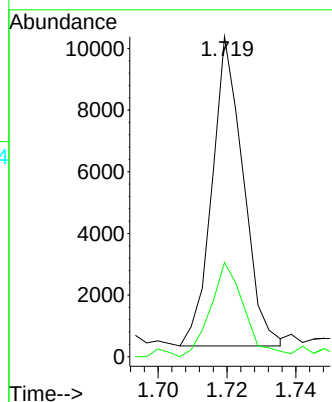
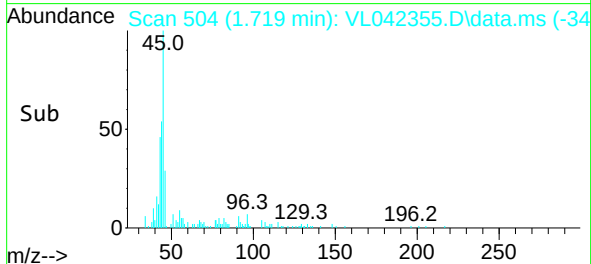
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



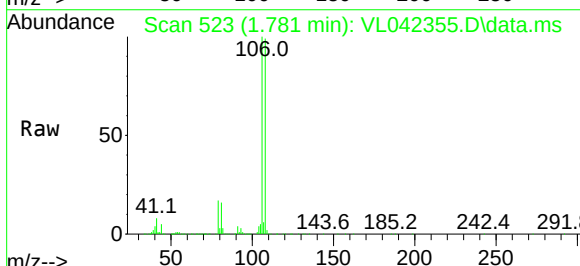
Tgt Ion: 45 Resp: 6324
Ion Ratio Lower Upper
45 100
46 37.6 21.9 87.7

Manual Integrations
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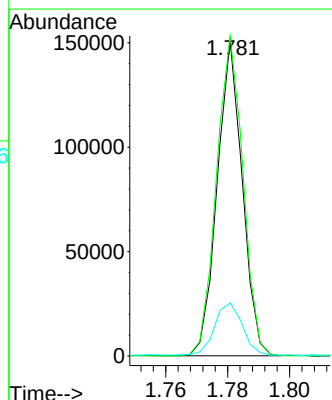
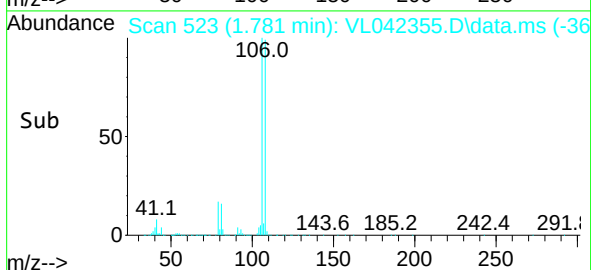
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

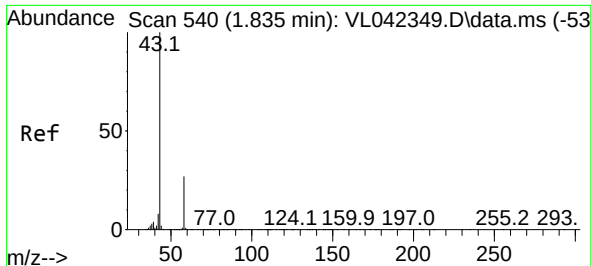


#14
Bromoethene
Concen: 14.117 ppbv
RT: 1.781 min Scan# 523
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



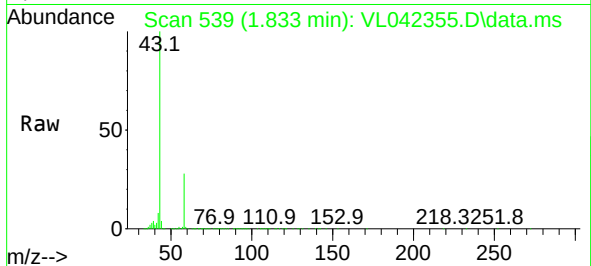
Tgt Ion:108 Resp: 84851
Ion Ratio Lower Upper
108 100
106 107.5 85.9 128.9
79 19.3 13.9 20.9





#15
Acetone
Concen: 12.056 ppbv
RT: 1.833 min Scan# 51
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

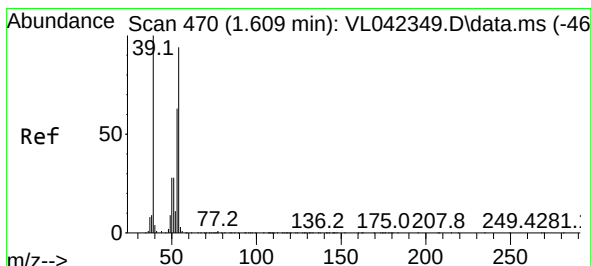
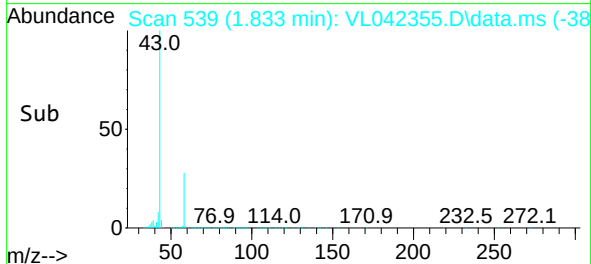
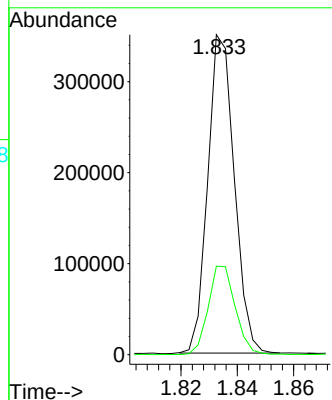
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion: 43 Resp: 229080
Ion Ratio Lower Upper
43 100
58 28.4 22.4 33.6

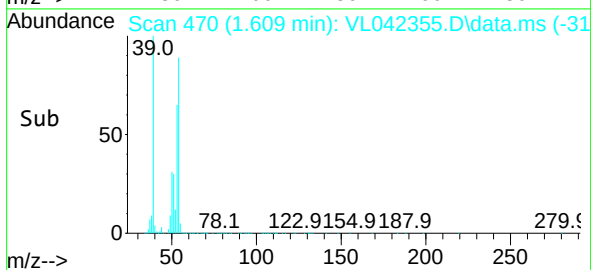
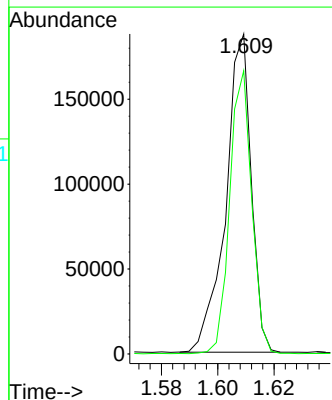
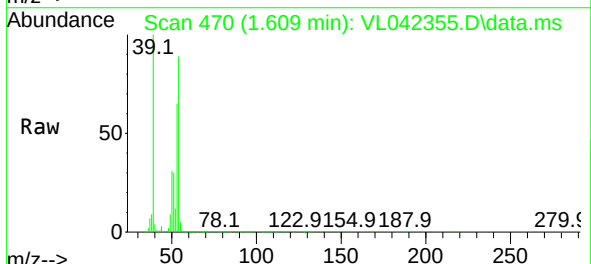
Manual Integrations
APPROVED

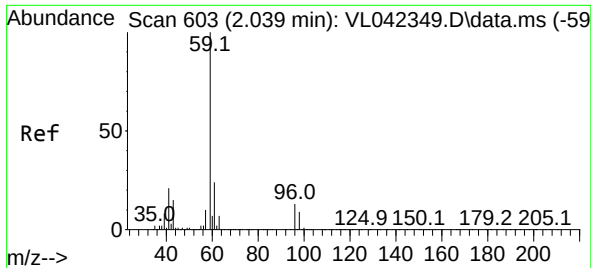
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#16
1,3-Butadiene
Concen: 13.224 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

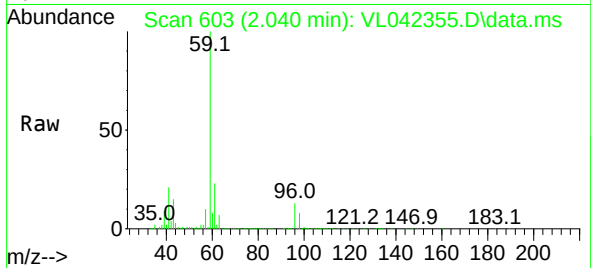
Tgt Ion: 39 Resp: 117997
Ion Ratio Lower Upper
39 100
54 77.2 64.9 97.3





#17
tert-Butyl alcohol
Concen: 13.615 ppbv
RT: 2.040 min Scan# 603
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

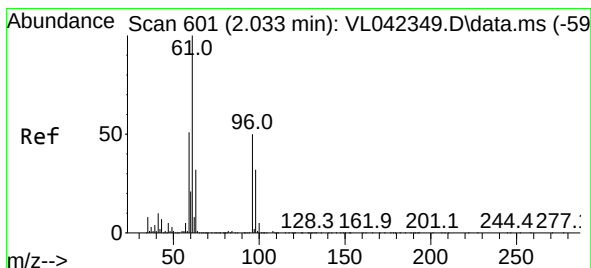
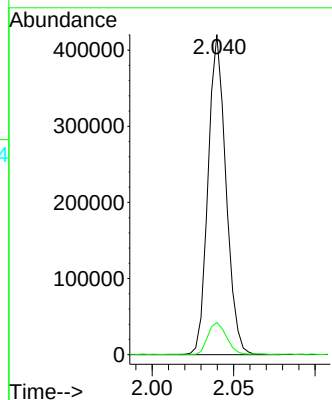
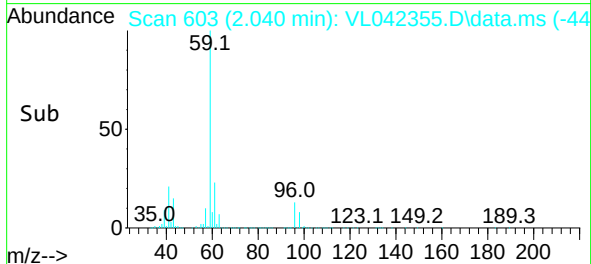
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015



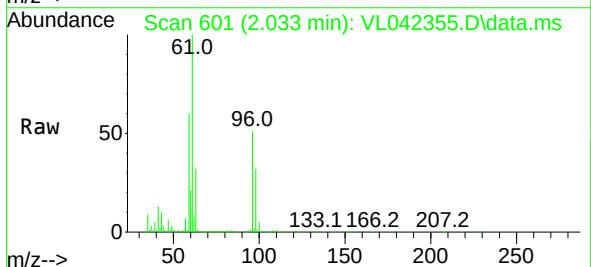
Tgt Ion: 59 Resp: 320609
Ion Ratio Lower Upper
59 100
57 10.6 8.7 13.1

Manual Integrations
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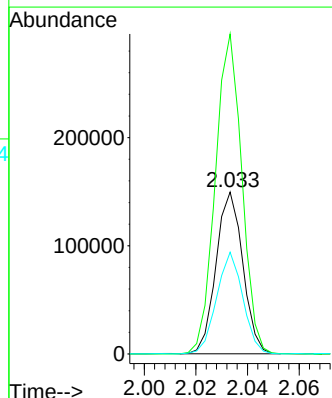
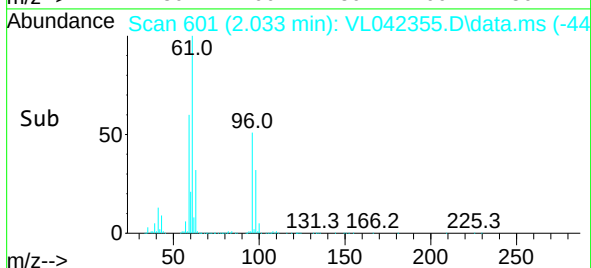
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

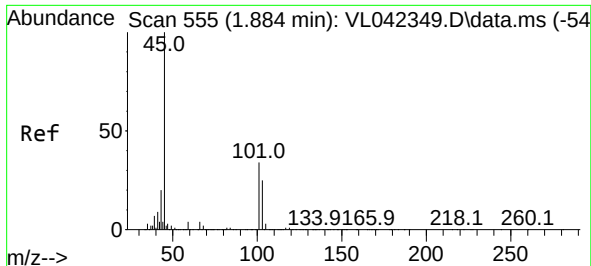


#18
1,1-Dichloroethene
Concen: 14.045 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



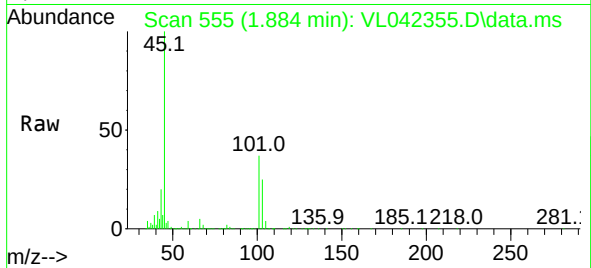
Tgt Ion: 96 Resp: 107666
Ion Ratio Lower Upper
96 100
61 197.8 160.2 240.2
98 62.9 51.0 76.4





#19
Isopropyl Alcohol
Concen: 13.169 ppbv
RT: 1.884 min Scan# 51
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

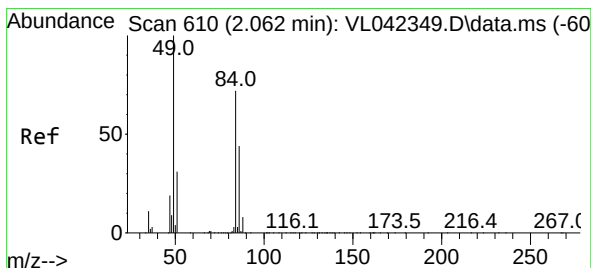
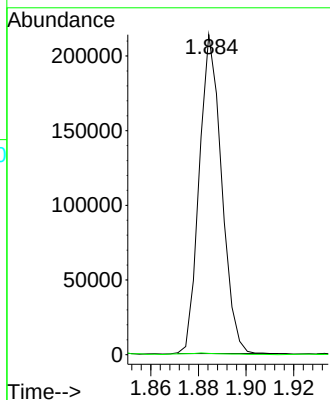
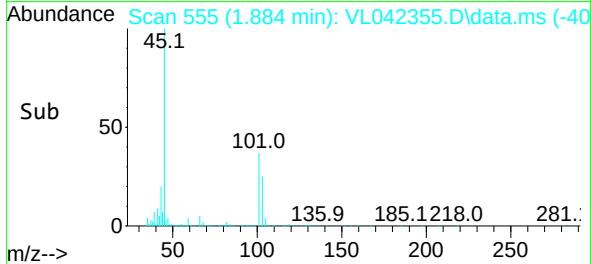
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



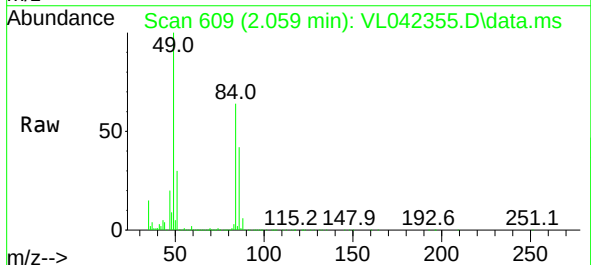
Tgt Ion: 45 Resp: 139004
Ion Ratio Lower Upper
45 100
58 46.9 34.5 51.7

Manual Integrations
APPROVED

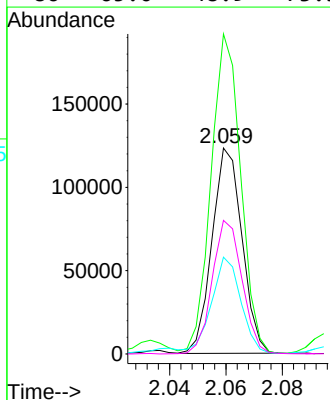
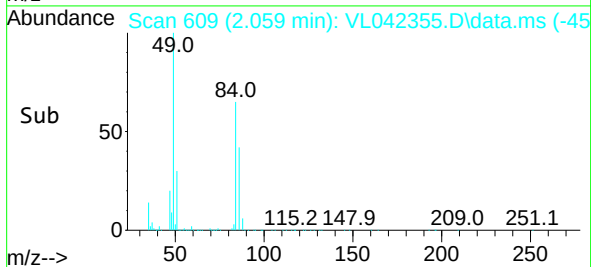
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

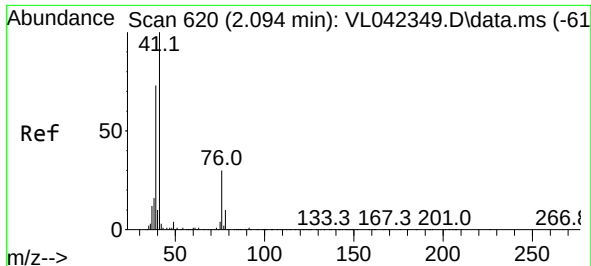


#20
Methylene Chloride
Concen: 12.241 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



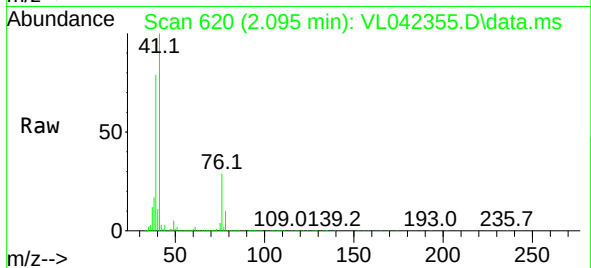
Tgt Ion: 84 Resp: 91093
Ion Ratio Lower Upper
84 100
49 155.7 111.6 167.4
51 46.8 35.1 52.7
86 65.0 48.9 73.3





#21
 Allyl Chloride
 Concen: 14.329 ppbv
 RT: 2.095 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

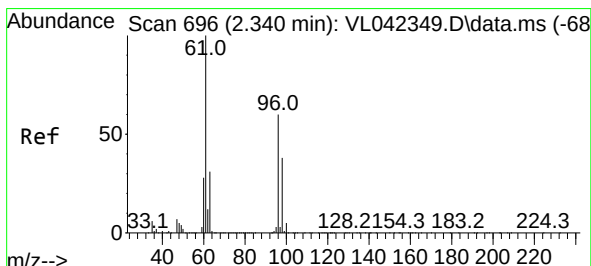
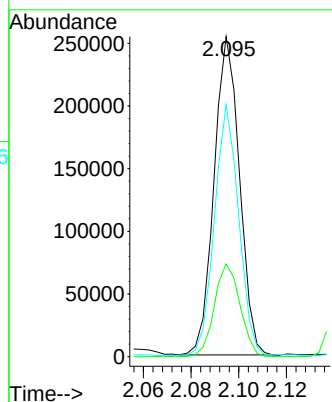
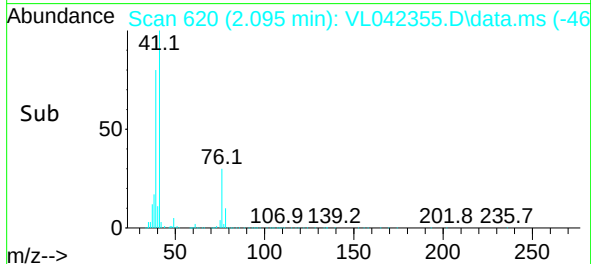
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



Tgt Ion: 41 Resp: 18799
 Ion Ratio Lower Upper
 41 100
 76 29.3 24.8 37.2
 39 75.2 60.6 90.8

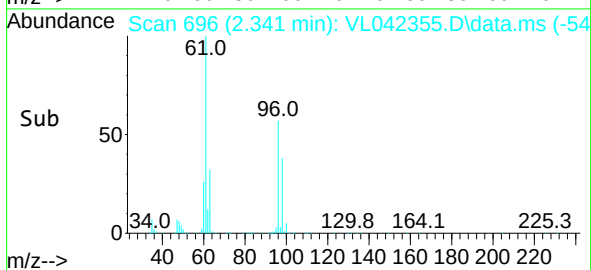
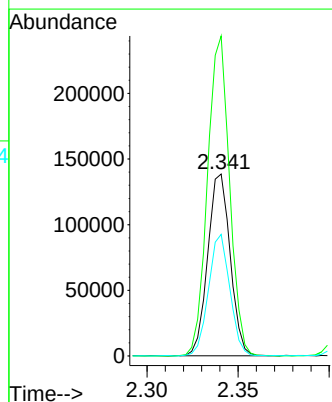
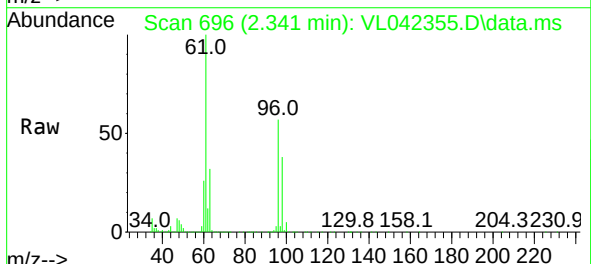
Manual Integrations
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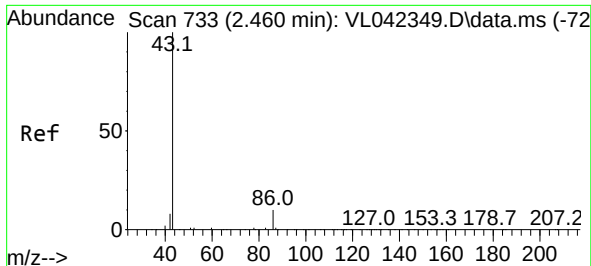
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#22
 trans-1,2-Dichloroethene
 Concen: 13.970 ppbv
 RT: 2.341 min Scan# 696
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

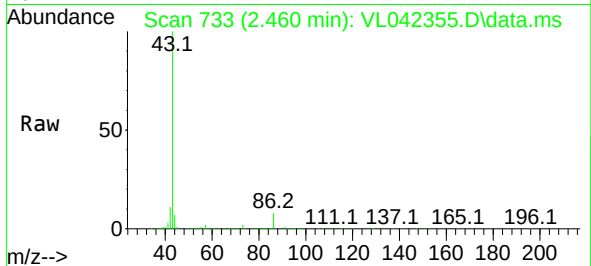
Tgt Ion: 96 Resp: 118492
 Ion Ratio Lower Upper
 96 100
 61 176.1 133.7 200.5
 98 66.8 50.3 75.5





#23
 Vinyl Acetate
 Concen: 13.799 ppbv
 RT: 2.460 min Scan# 717
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

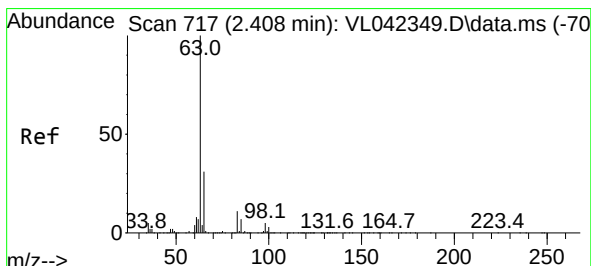
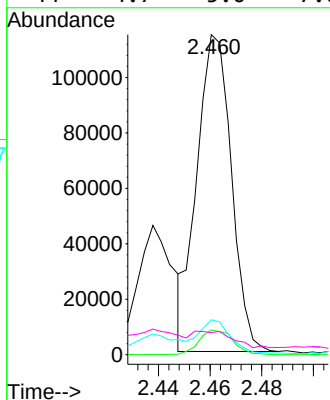
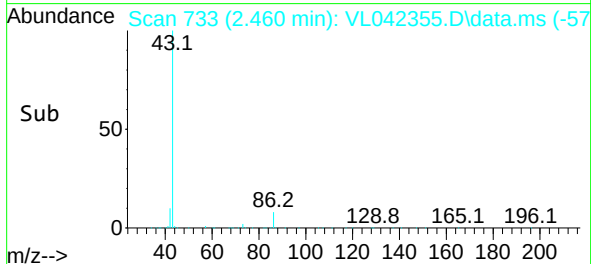
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



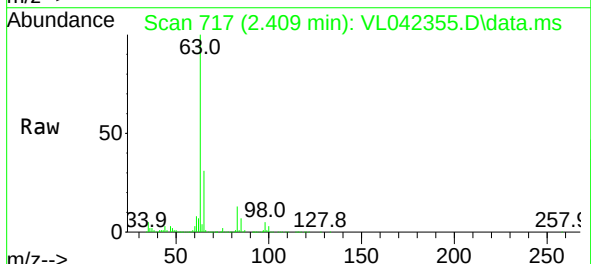
Tgt Ion: 43 Resp: 106135
 Ion Ratio Lower Upper
 43 100
 86 7.8 6.5 9.7
 42 10.4 7.8 11.8
 44 4.7 5.0 7.6#

Manual Integrations
 APPROVED

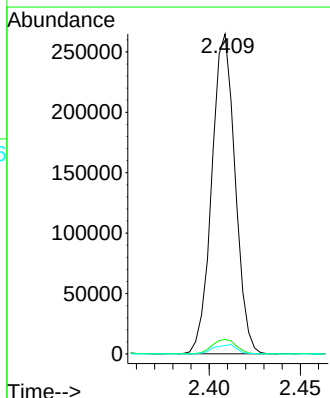
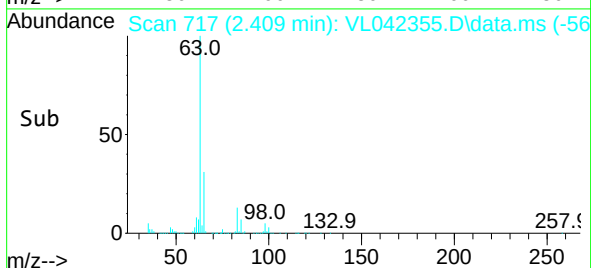
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

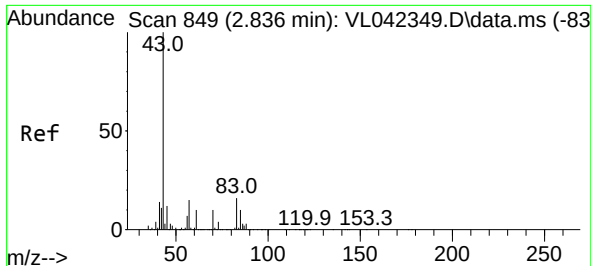


#24
 1,1-Dichloroethane
 Concen: 14.615 ppbv
 RT: 2.409 min Scan# 717
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54



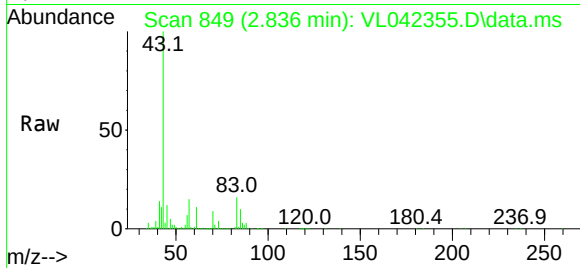
Tgt Ion: 63 Resp: 235466
 Ion Ratio Lower Upper
 63 100
 98 4.5 2.3 6.8
 100 2.6 1.6 4.8





#25
Ethyl Acetate
Concen: 14.166 ppbv
RT: 2.836 min Scan# 849
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

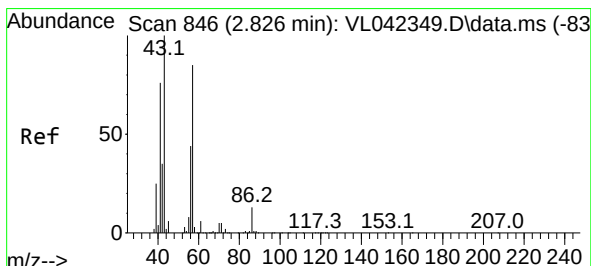
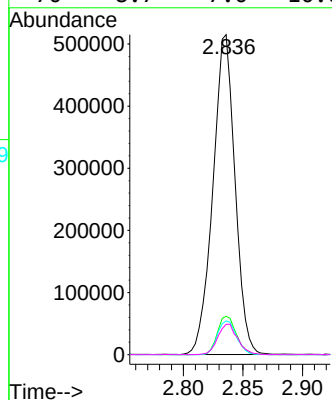
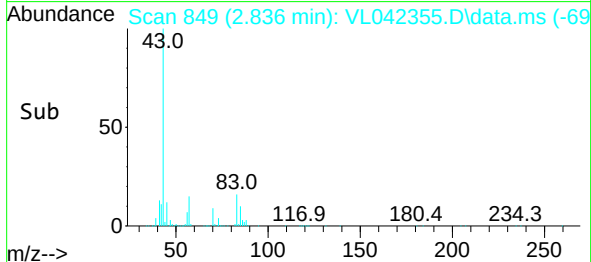
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



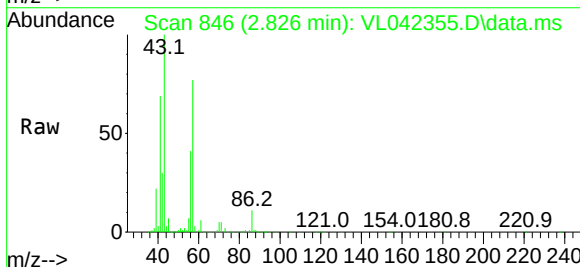
Tgt Ion: 43 Resp: 663644
Ion Ratio Lower Upper
43 100
45 10.4 8.3 12.5
61 9.2 7.3 10.9
70 8.7 7.0 10.6

Manual Integrations
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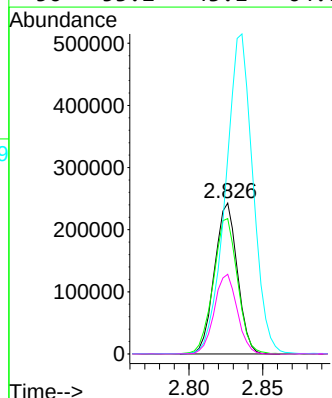
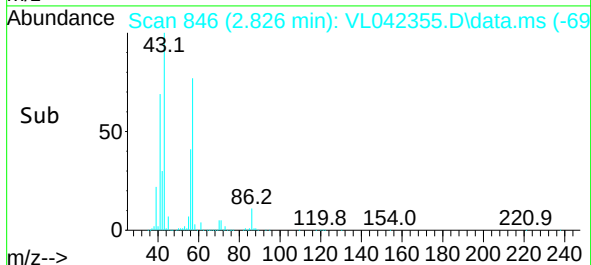
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

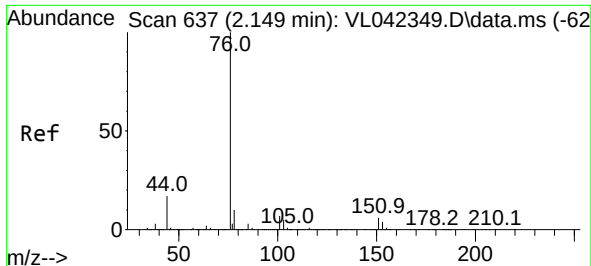


#26
Hexane
Concen: 13.765 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



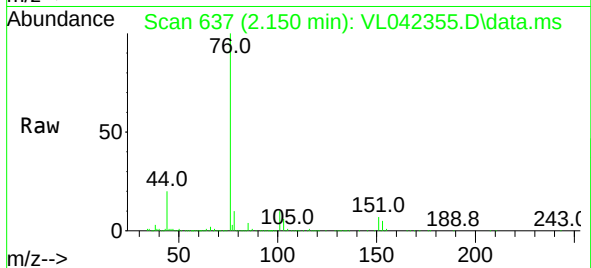
Tgt Ion: 57 Resp: 260975
Ion Ratio Lower Upper
57 100
41 95.3 77.9 116.9
43 254.5 208.4 312.6
56 53.2 43.1 64.7





#27
Carbon Disulfide
Concen: 14.734 ppbv
RT: 2.150 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

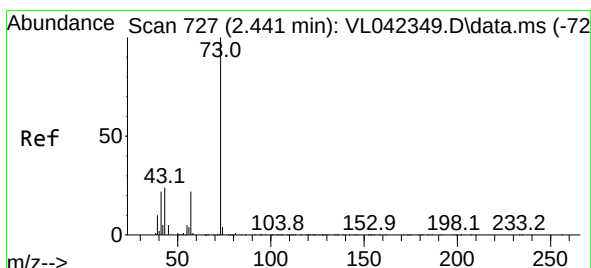
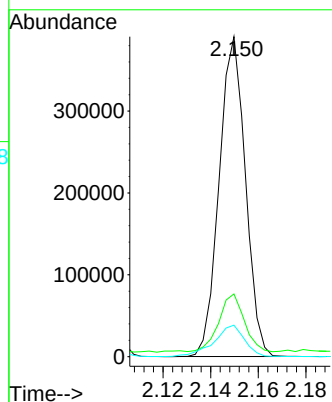
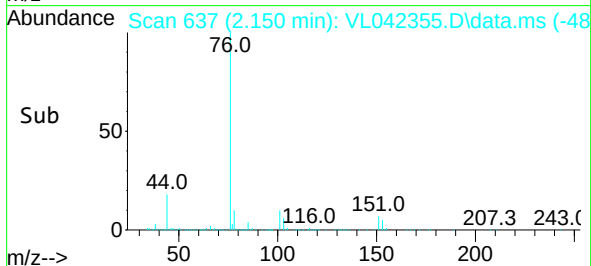
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



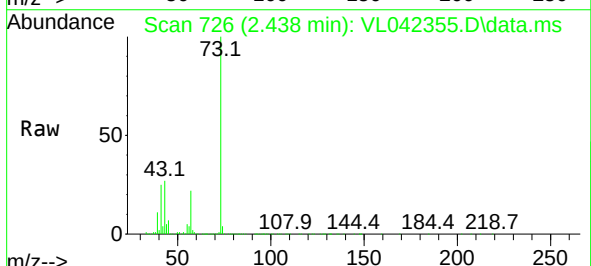
Tgt Ion: 76 Resp: 299098
Ion Ratio Lower Upper
76 100
44 17.3 15.5 23.3
78 11.4 9.3 13.9

Manual Integrations
APPROVED

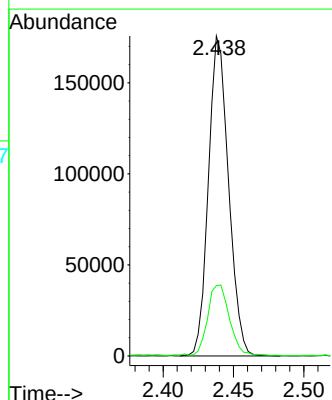
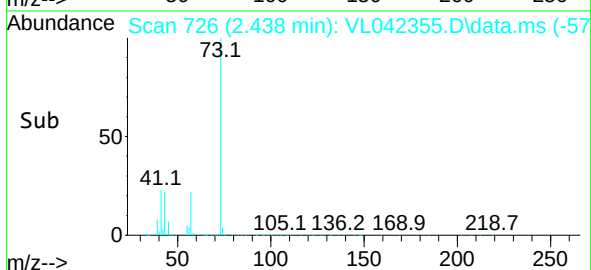
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

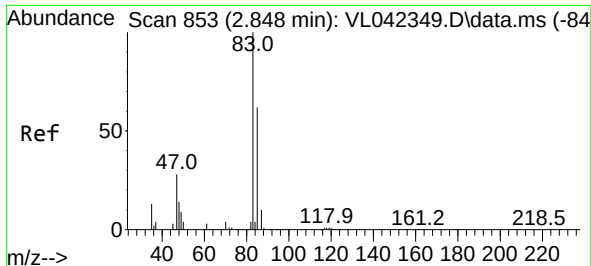


#28
Methyl tert-Butyl Ether
Concen: 14.076 ppbv
RT: 2.438 min Scan# 726
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



Tgt Ion: 73 Resp: 174855
Ion Ratio Lower Upper
73 100
57 24.3 21.3 31.9





#29

Chloroform

Concen: 14.393 ppbv

RT: 2.849 min Scan# 853

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 83 Resp: 385680

Ion Ratio Lower Upper

83 100

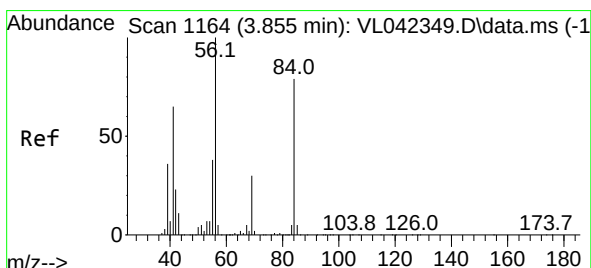
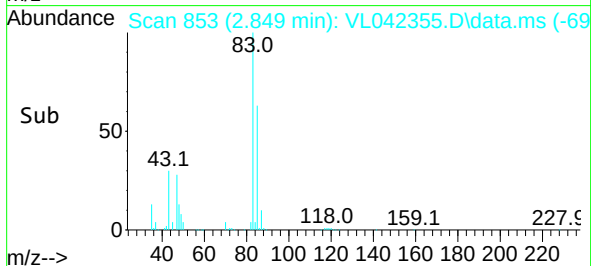
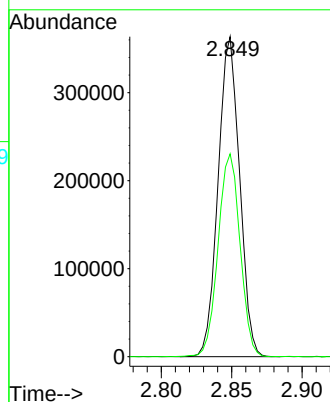
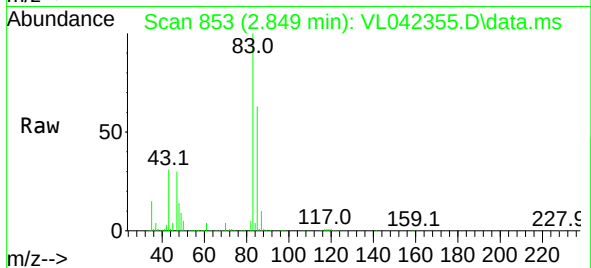
85 63.4 50.0 75.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#30

Cyclohexane

Concen: 14.238 ppbv

RT: 3.855 min Scan# 1164

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

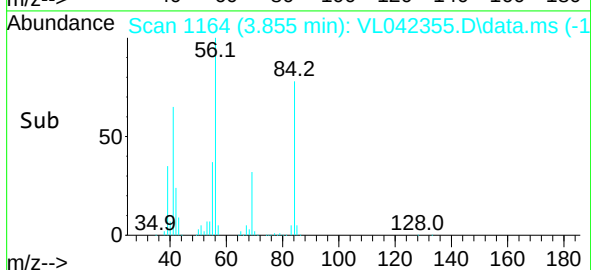
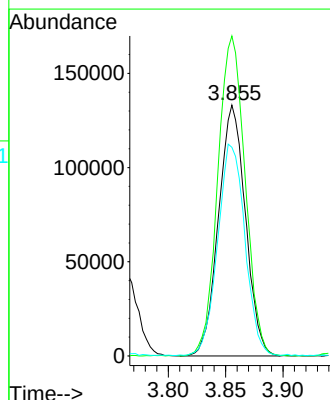
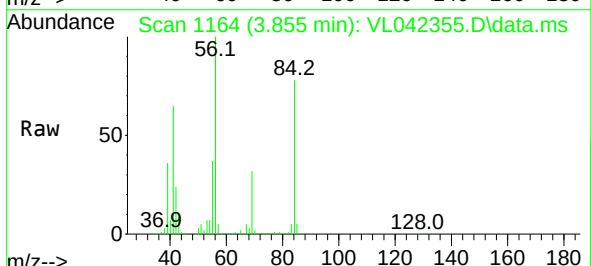
Tgt Ion: 84 Resp: 217375

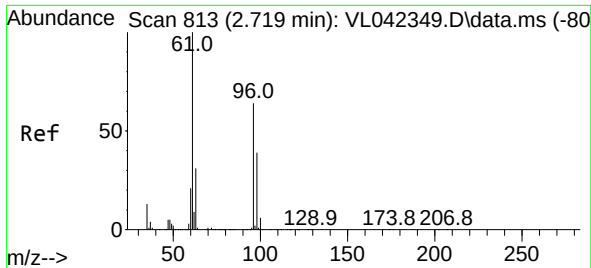
Ion Ratio Lower Upper

84 100

56 129.4 101.0 151.4

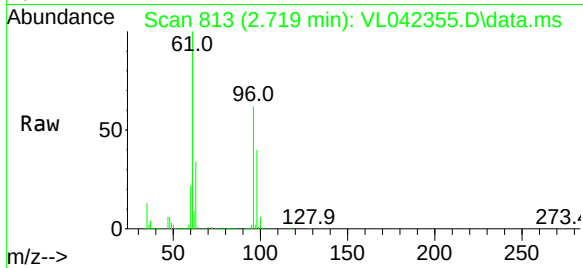
41 85.3 67.4 101.0





#31
 cis-1,2-Dichloroethene
 Concen: 14.700 ppbv
 RT: 2.719 min Scan# 813
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

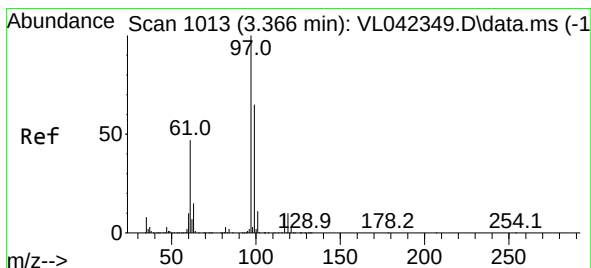
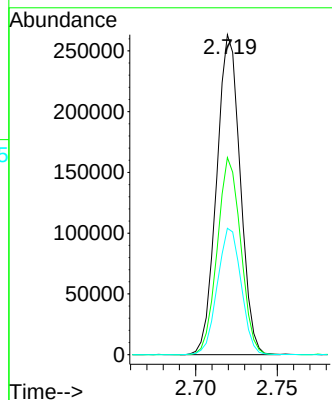
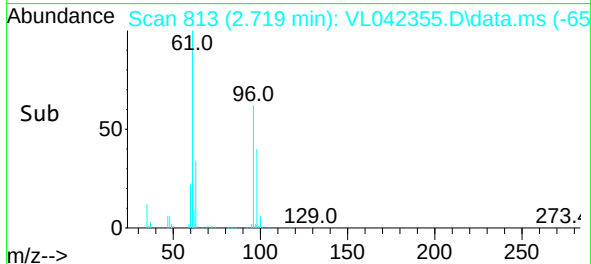
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



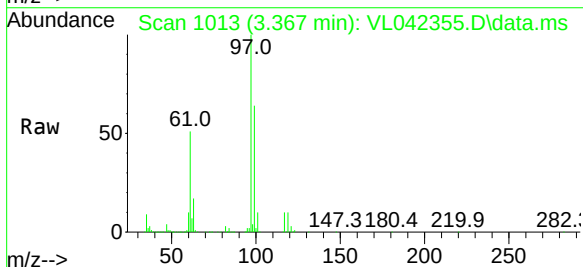
Tgt Ion: 61 Resp: 264972
 Ion Ratio Lower Upper
 61 100
 96 61.6 50.8 76.2
 98 39.5 30.9 46.3

Manual Integrations
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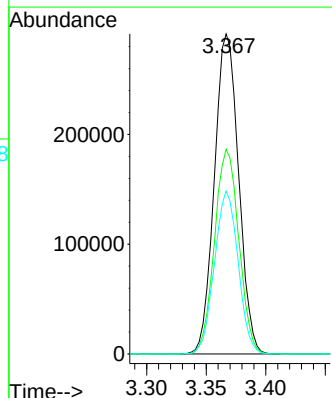
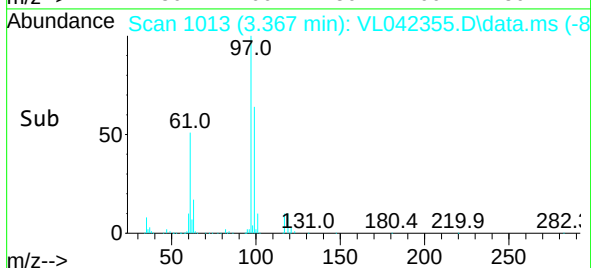
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

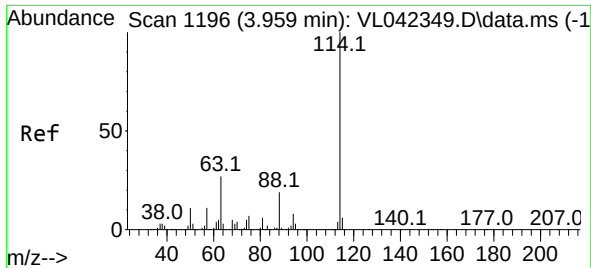


#32
 1,1,1-Trichloroethane
 Concen: 14.357 ppbv
 RT: 3.367 min Scan# 1013
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54



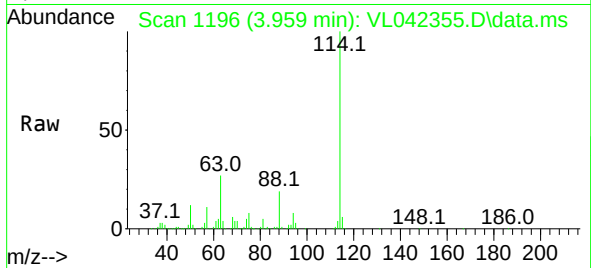
Tgt Ion: 97 Resp: 412537
 Ion Ratio Lower Upper
 97 100
 99 64.1 51.0 76.4
 61 49.8 38.8 58.2





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

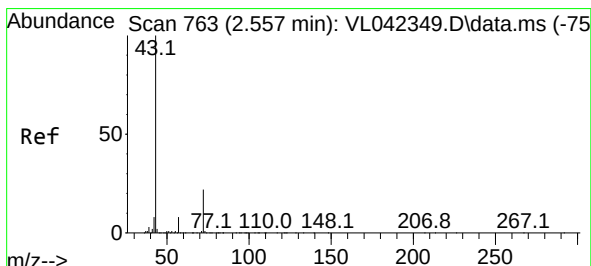
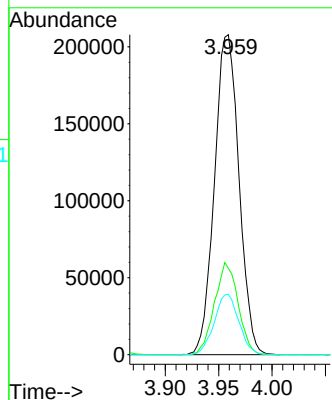
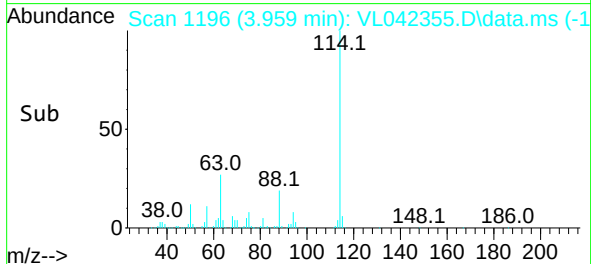
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



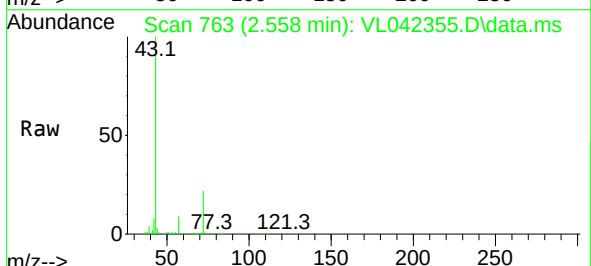
Tgt Ion:114 Resp: 332080
Ion Ratio Lower Upper
114 100
63 27.7 21.8 32.6
88 18.9 15.5 23.3

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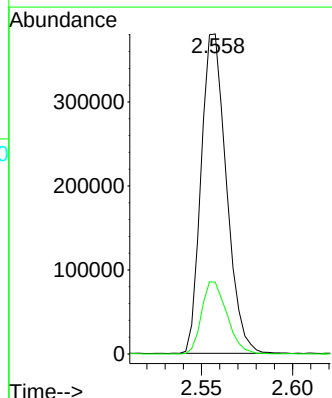
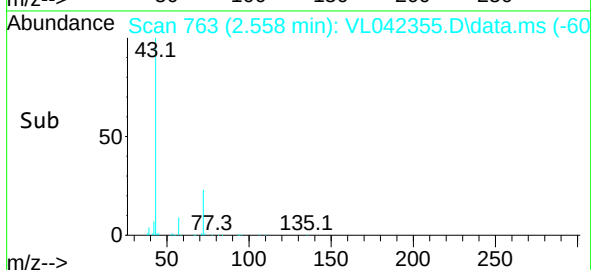
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

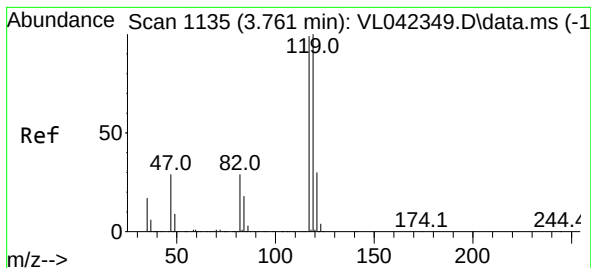


#34
2-Butanone
Concen: 13.986 ppbv
RT: 2.558 min Scan# 763
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



Tgt Ion: 43 Resp: 367315
Ion Ratio Lower Upper
43 100
72 22.7 18.2 27.2





#35

Carbon Tetrachloride

Concen: 13.639 ppbv

RT: 3.762 min Scan# 1135

Delta R.T. 0.000 min

Lab File: VL042355.D

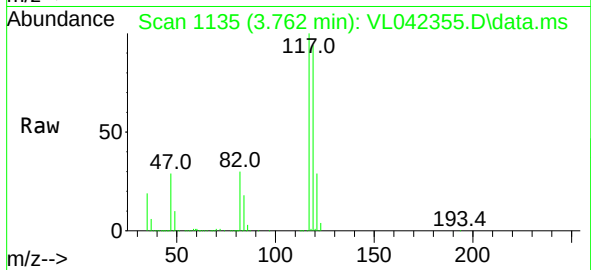
Acq: 17 Apr 2025 12:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015



Tgt Ion: 117 Resp: 409910

Ion Ratio Lower Upper

117 100

119 94.0 80.5 120.7

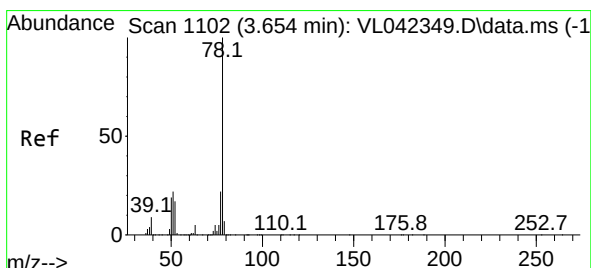
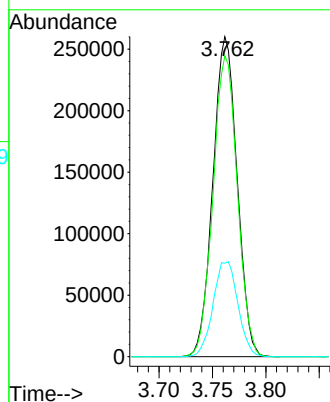
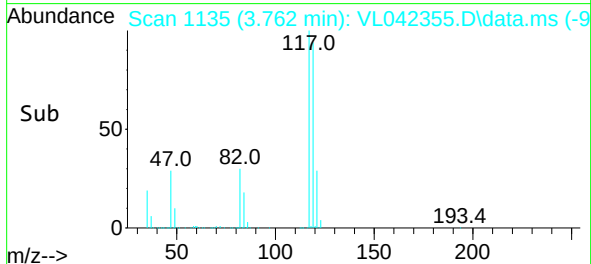
121 29.2 24.2 36.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#36

Benzene

Concen: 14.578 ppbv

RT: 3.655 min Scan# 1102

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

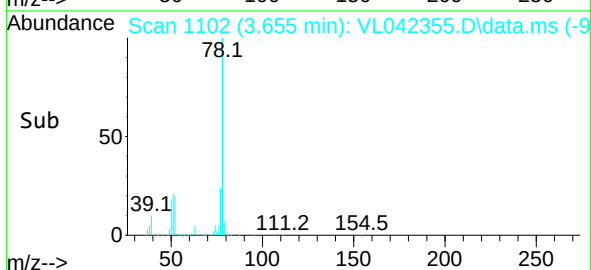
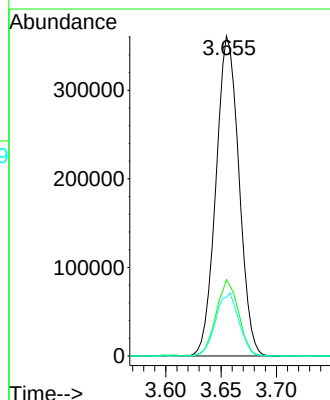
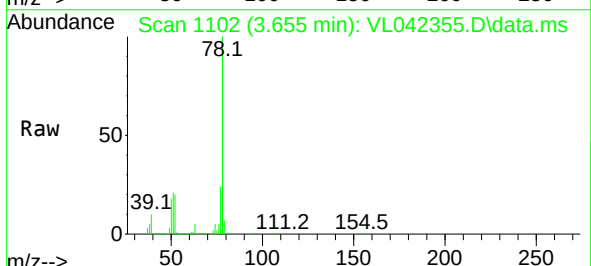
Tgt Ion: 78 Resp: 522156

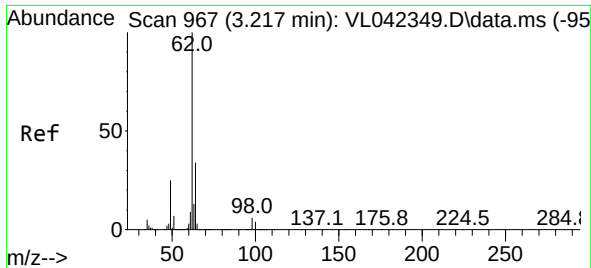
Ion Ratio Lower Upper

78 100

77 23.8 17.4 26.0

50 18.3 15.5 23.3





#37

1,2-Dichloroethane

Concen: 14.863 ppbv

RT: 3.218 min Scan# 967

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 62 Resp: 31951

Ion Ratio Lower Upper

62 100

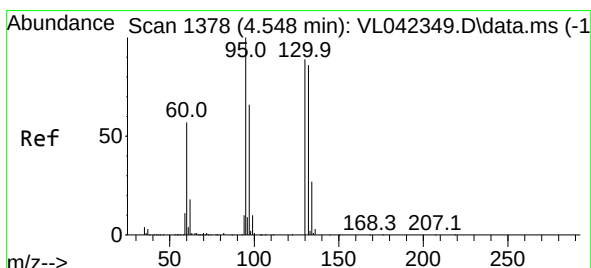
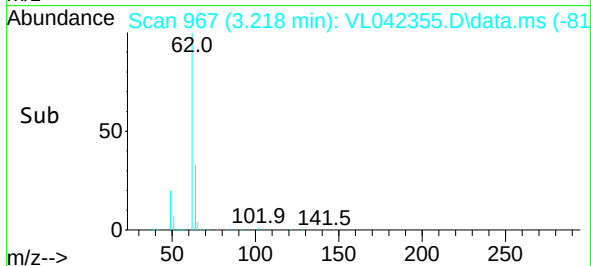
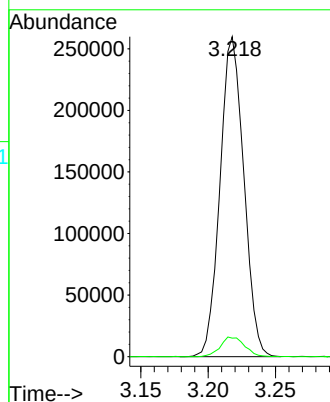
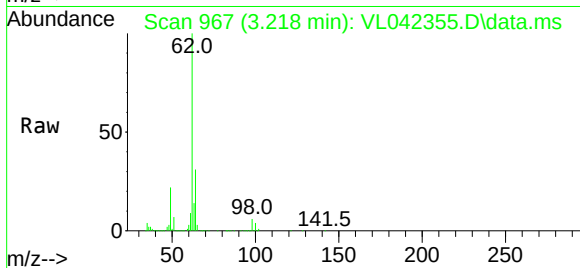
98 6.3 5.1 7.7

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#38

Trichloroethene

Concen: 13.278 ppbv

RT: 4.548 min Scan# 1378

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Tgt Ion:130 Resp: 208508

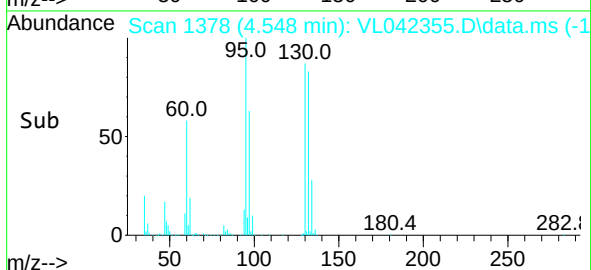
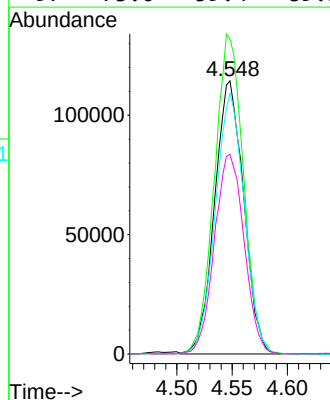
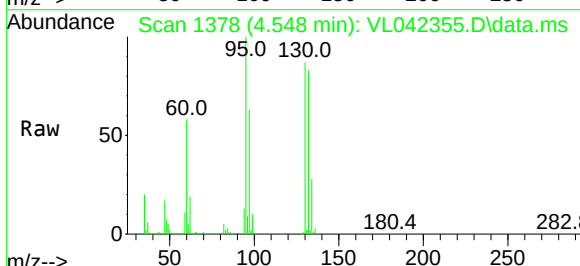
Ion Ratio Lower Upper

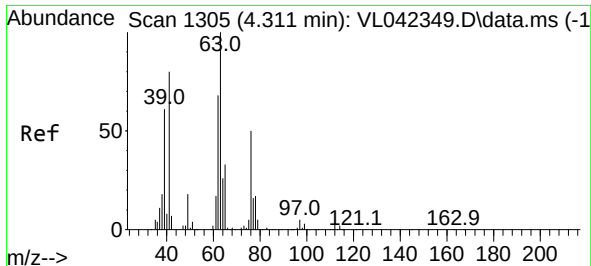
130 100

95 115.0 89.8 134.6

132 95.3 77.7 116.5

97 73.0 59.4 89.2





#39

1,2-Dichloropropane

Concen: 14.201 ppbv

RT: 4.312 min Scan# 1305

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Instrument :

MSVOA_L

ClientSampleId :

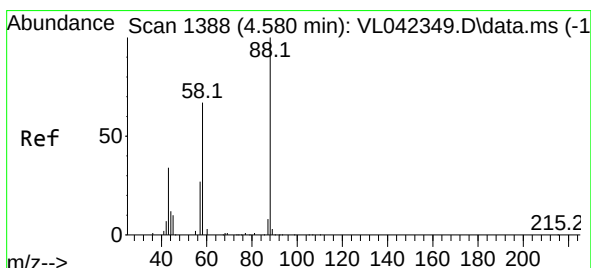
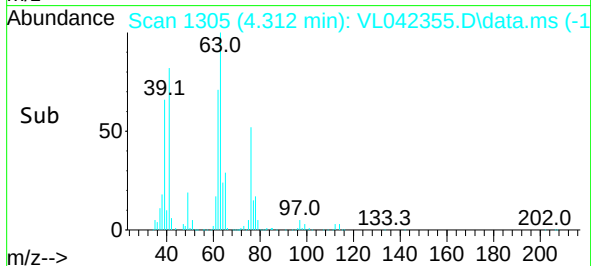
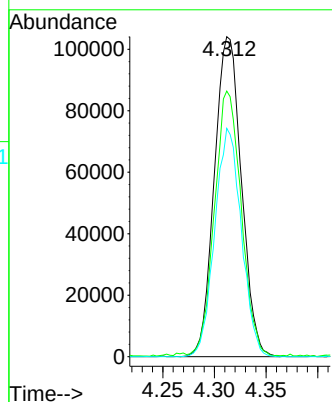
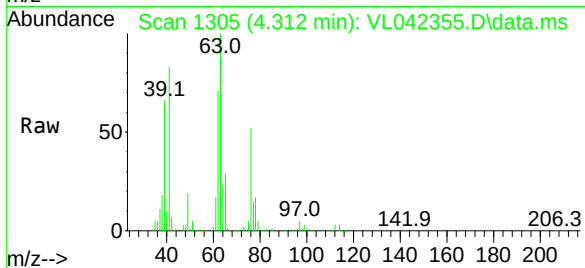
VSTDIC015

Tgt Ion: 63	Resp: 18969
Ion Ratio	Lower Upper
63	100
41	82.7 64.2 96.2
62	71.4 54.3 81.5

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#40

1,4-Dioxane

Concen: 12.733 ppbv

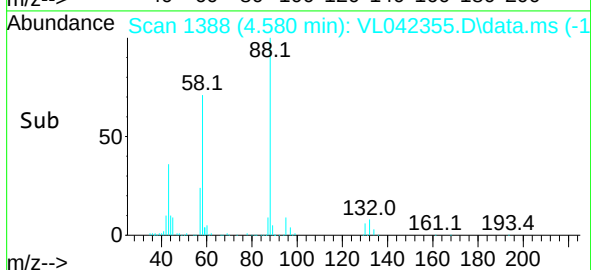
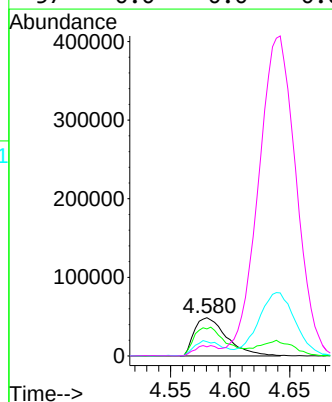
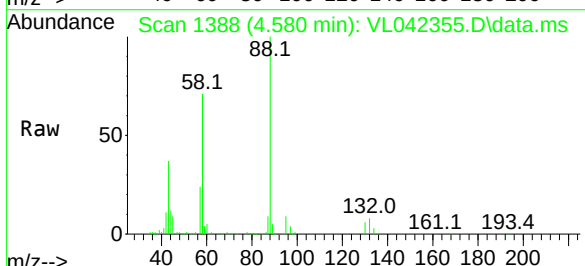
RT: 4.580 min Scan# 1388

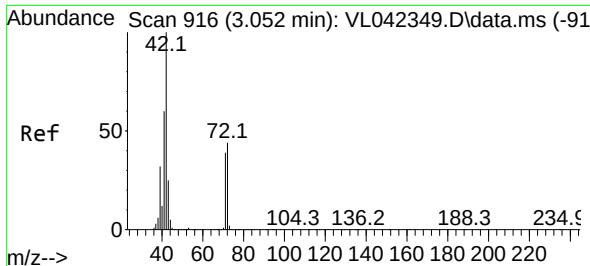
Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

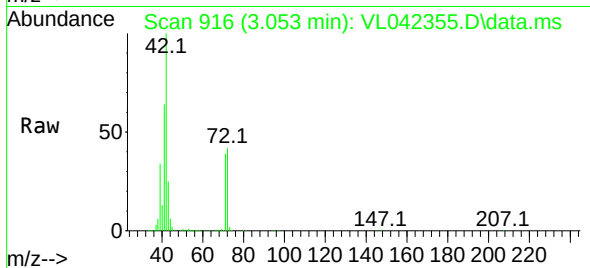
Tgt Ion: 88	Resp: 92114
Ion Ratio	Lower Upper
88	100
58	75.2 61.4 92.0
43	36.8 23.2 34.8
57	0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 14.166 ppbv
RT: 3.053 min Scan# 916
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

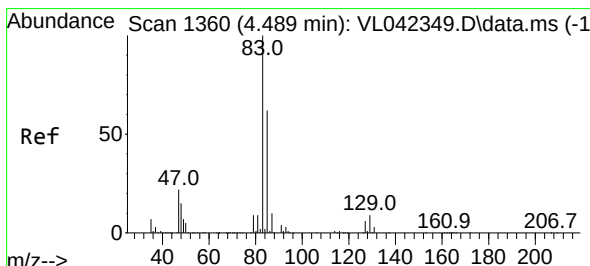
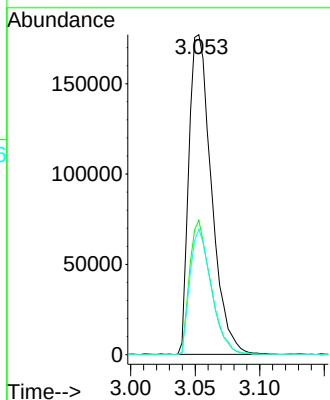
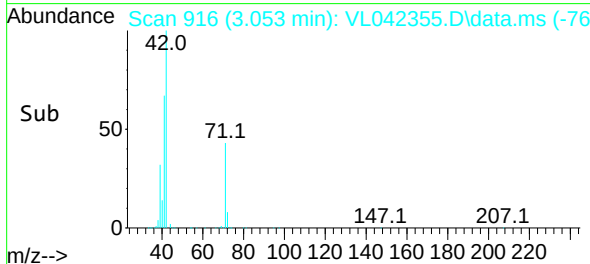
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



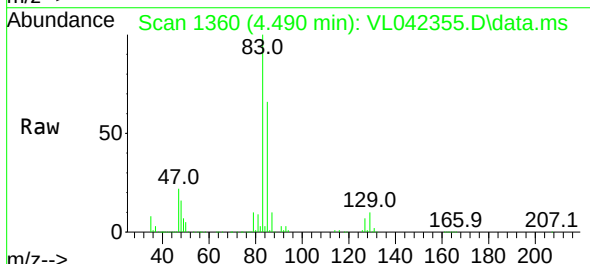
Tgt Ion: 42 Resp: 214949
Ion Ratio Lower Upper
42 100
72 39.7 32.3 48.5
71 37.9 31.4 47.2

Manual Integrations
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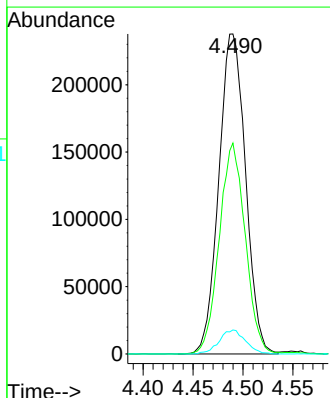
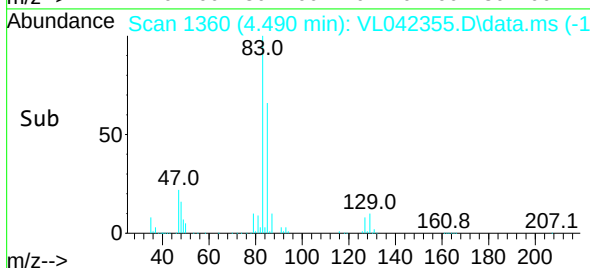
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

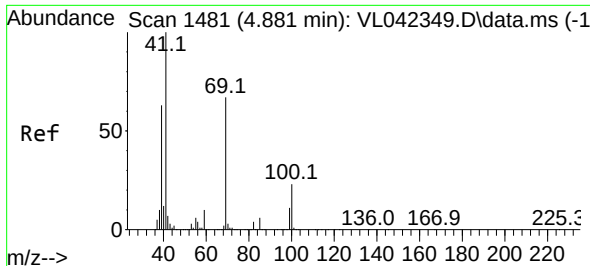


#42
Bromodichloromethane
Concen: 14.798 ppbv
RT: 4.490 min Scan# 1360
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



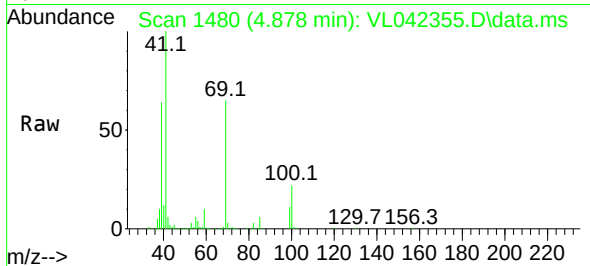
Tgt Ion: 83 Resp: 442735
Ion Ratio Lower Upper
83 100
85 65.9 49.7 74.5
127 7.5 5.1 7.7





#43
Methyl Methacrylate
Concen: 13.670 ppbv
RT: 4.878 min Scan# 1480
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

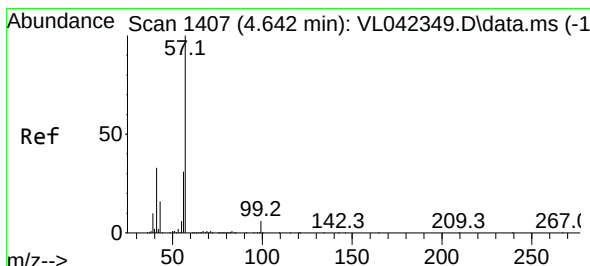
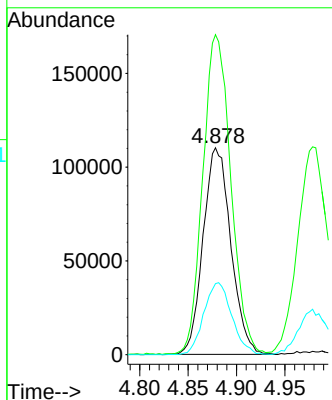
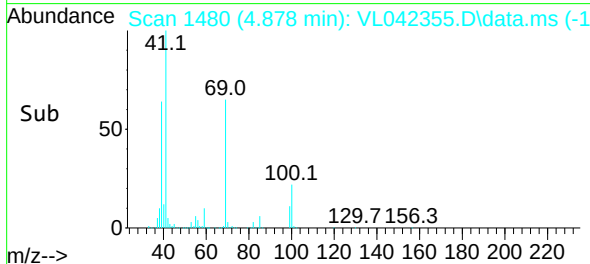
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



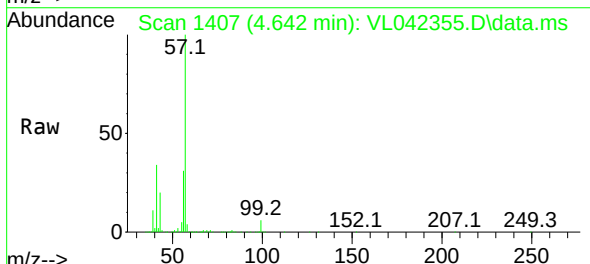
Tgt Ion: 69 Resp: 21975
Ion Ratio Lower Upper
69 100
41 156.6 118.6 177.8
100 35.2 28.2 42.2

Manual Integrations
APPROVED

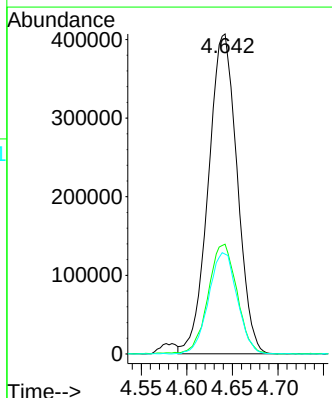
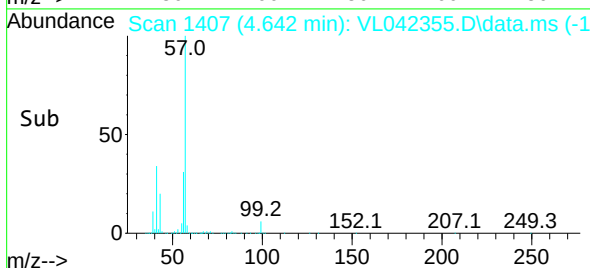
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

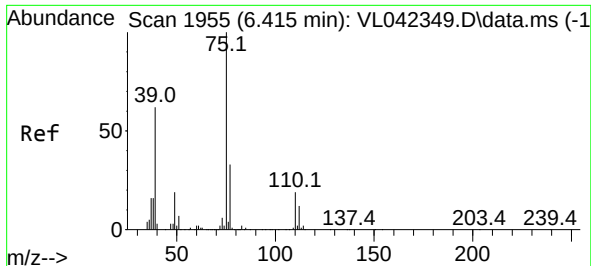


#44
2,2,4-Trimethylpentane
Concen: 14.425 ppbv
RT: 4.642 min Scan# 1407
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



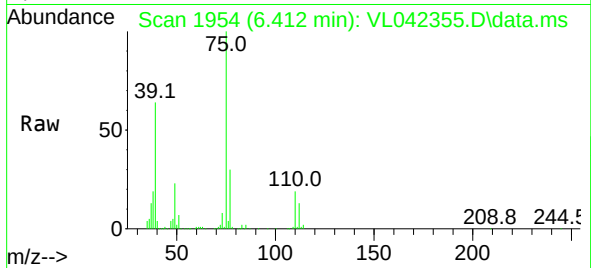
Tgt Ion: 57 Resp: 893529
Ion Ratio Lower Upper
57 100
41 34.4 27.2 40.8
56 31.6 25.7 38.5





#45
 t-1,3-Dichloropropene
 Concen: 14.810 ppbv
 RT: 6.412 min Scan# 1954
 Delta R.T. -0.003 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

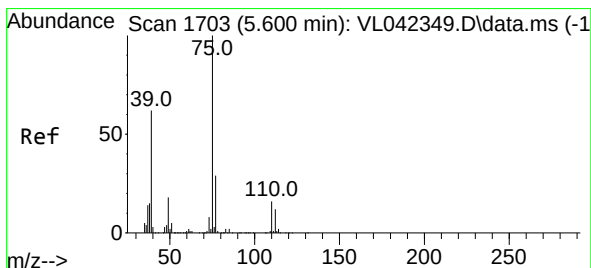
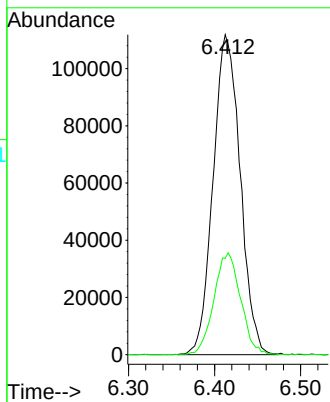
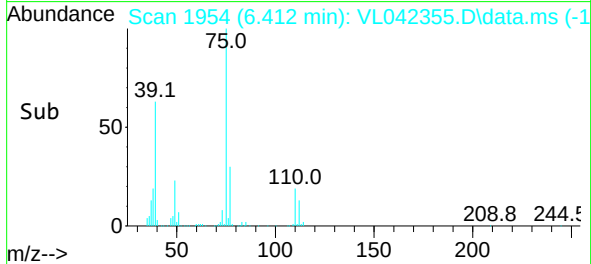
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



Tgt Ion: 75 Resp: 244470
 Ion Ratio Lower Upper
 75 100
 77 30.1 27.0 40.6

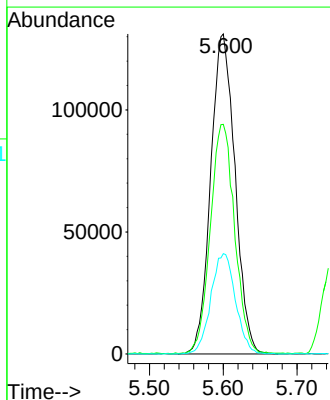
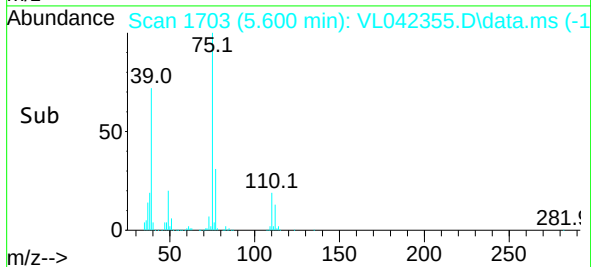
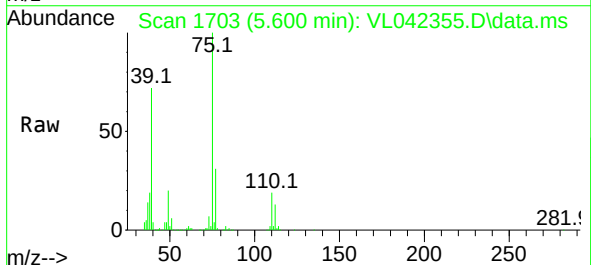
Manual Integrations
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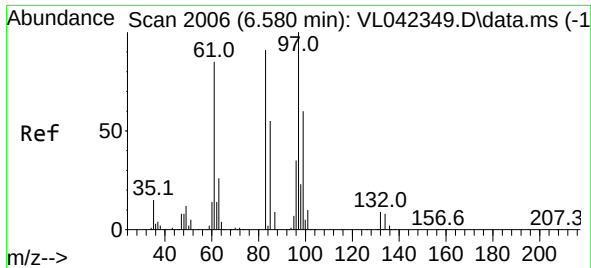
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#46
 cis-1,3-Dichloropropene
 Concen: 14.878 ppbv
 RT: 5.600 min Scan# 1703
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

Tgt Ion: 75 Resp: 300145
 Ion Ratio Lower Upper
 75 100
 39 71.6 50.0 75.0
 77 31.3 23.0 34.6





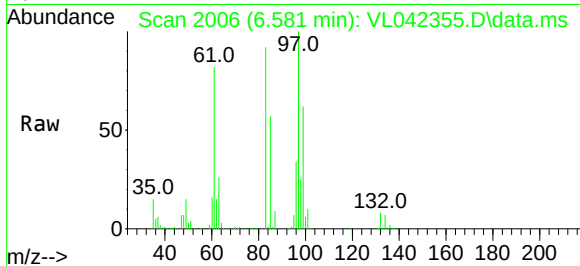
#47
1,1,2-Trichloroethane
Concen: 14.615 ppbv
RT: 6.581 min Scan# 2006
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

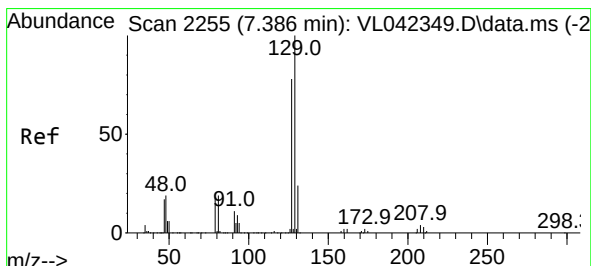
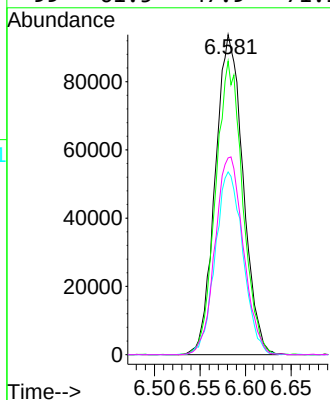
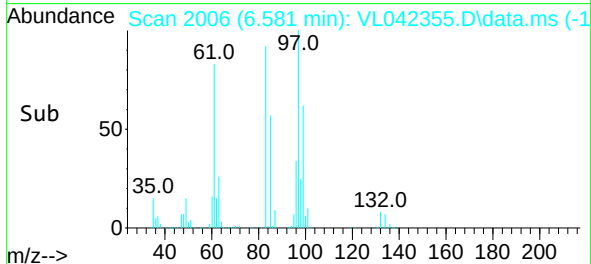


Tgt Ion: 97 Resp: 198874
Ion Ratio Lower Upper
97 100
83 91.7 72.8 109.2
85 57.0 44.2 66.4
99 61.5 47.9 71.9

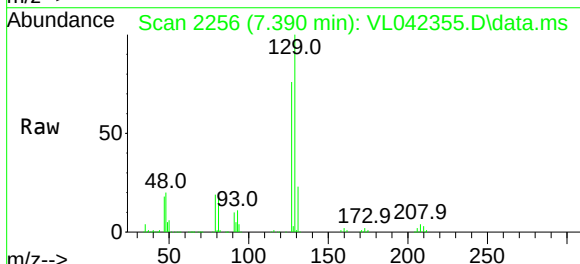
Manual Integrations

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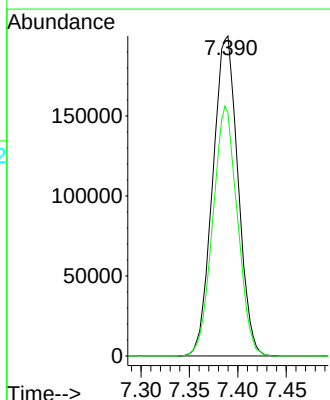
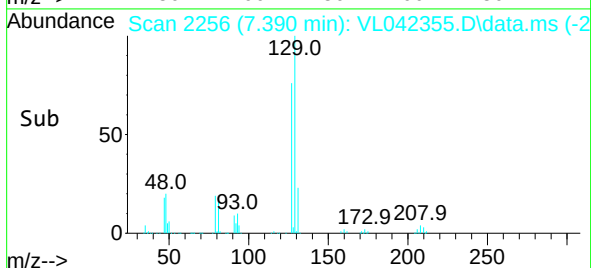
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

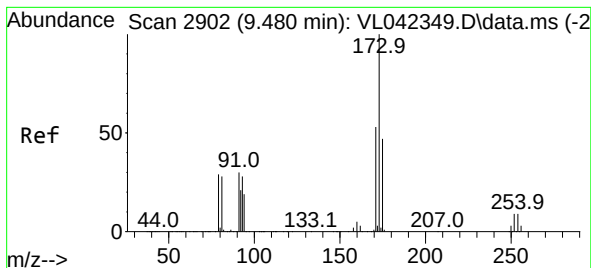


#48
Dibromochloromethane
Concen: 15.105 ppbv
RT: 7.390 min Scan# 2256
Delta R.T. 0.004 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



Tgt Ion:129 Resp: 362887
Ion Ratio Lower Upper
129 100
127 76.3 39.1 117.3





#49

Bromoform

Concen: 14.865 ppbv

RT: 9.484 min Scan# 2902

Delta R.T. 0.004 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion:173 Resp: 31228

Ion Ratio Lower Upper

173 100

175 47.3 38.2 57.2

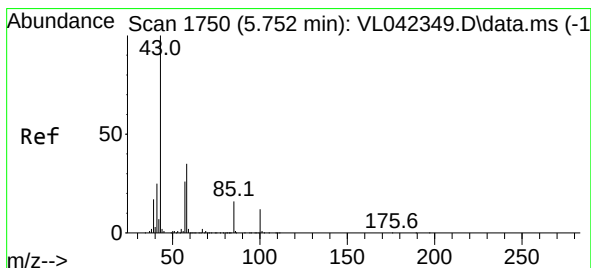
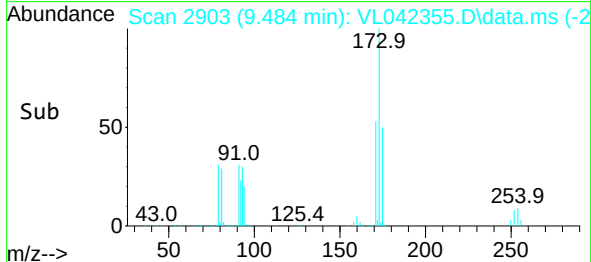
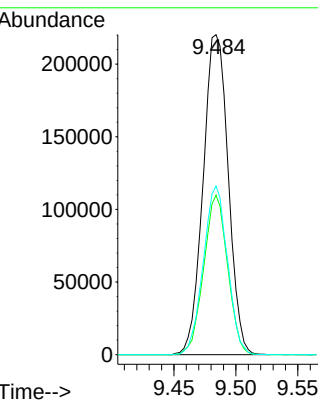
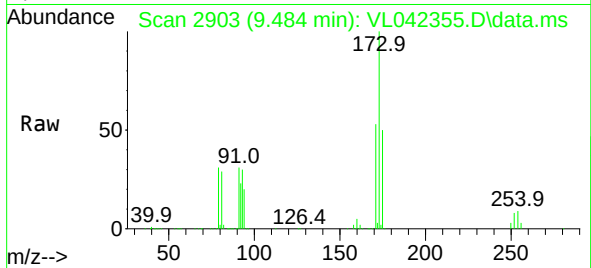
171 50.6 40.9 61.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#50

4-Methyl-2-Pentanone

Concen: 12.889 ppbv

RT: 5.749 min Scan# 1749

Delta R.T. -0.003 min

Lab File: VL042355.D

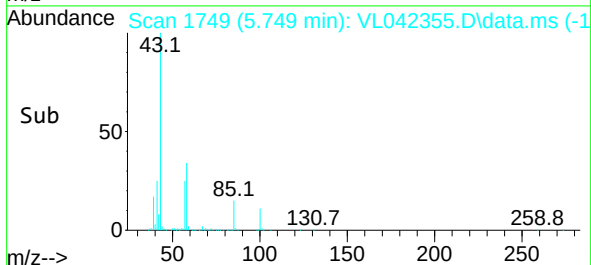
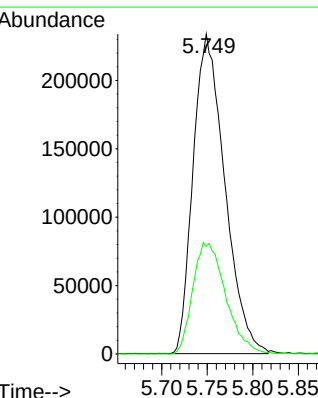
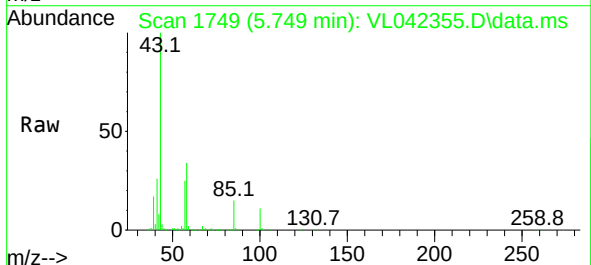
Acq: 17 Apr 2025 12:54

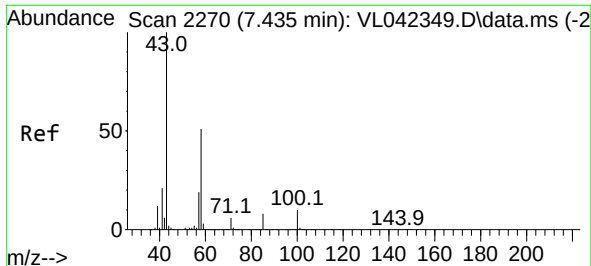
Tgt Ion: 43 Resp: 563658

Ion Ratio Lower Upper

43 100

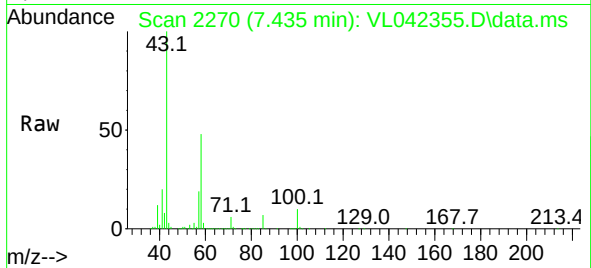
58 36.3 28.6 43.0





#51
2-Hexanone
Concen: 11.834 ppbv
RT: 7.435 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

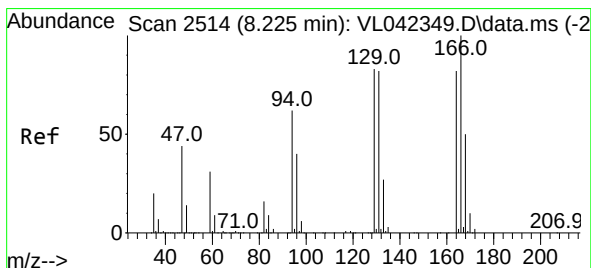
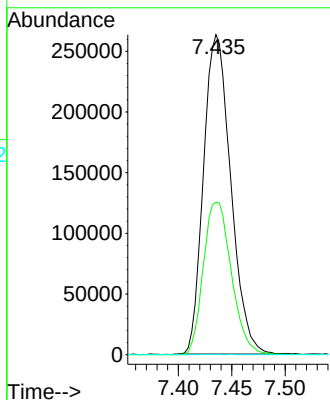
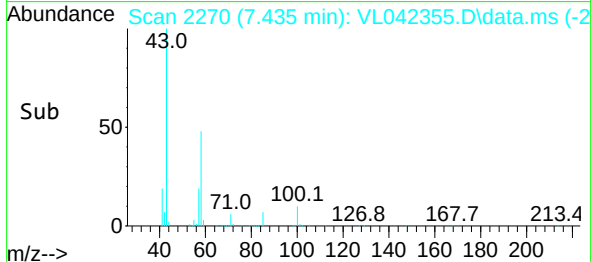
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion: 43 Resp: 46700
Ion Ratio Lower Upper
43 100
58 49.2 40.2 60.4
98 0.0 0.1 0.1

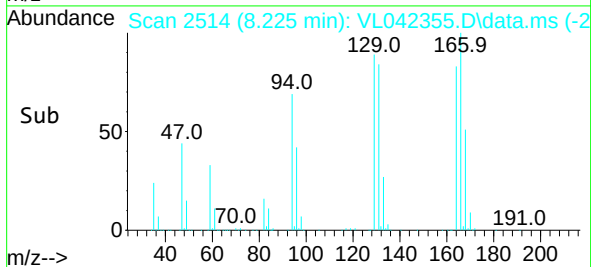
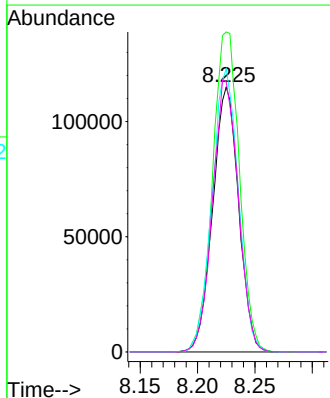
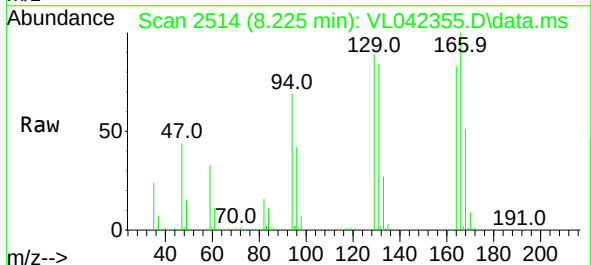
Manual Integrations
APPROVED

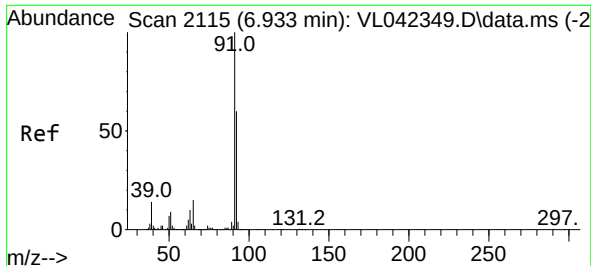
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#52
Tetrachloroethene
Concen: 13.046 ppbv
RT: 8.225 min Scan# 2514
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

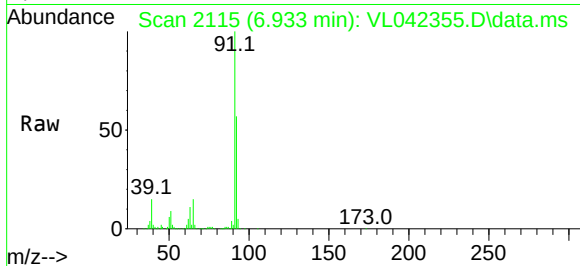
Tgt Ion:164 Resp: 180631
Ion Ratio Lower Upper
164 100
166 120.8 98.2 147.2
129 107.0 81.8 122.8
131 102.0 80.5 120.7





#53
Toluene
Concen: 14.411 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

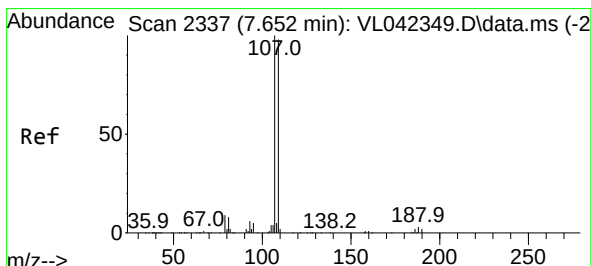
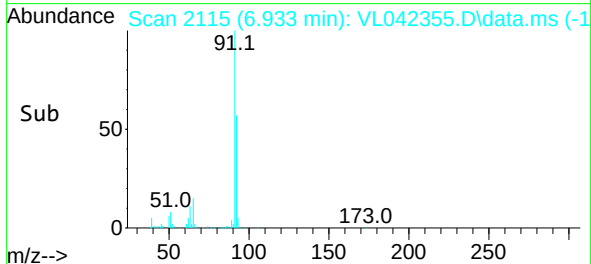
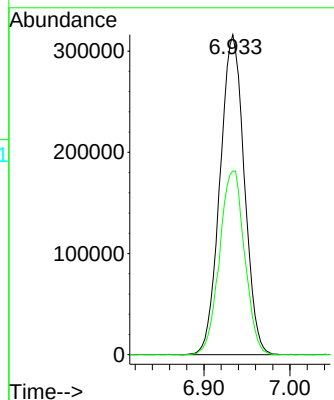
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion: 91 Resp: 619420
Ion Ratio Lower Upper
91 100
92 59.3 48.2 72.4

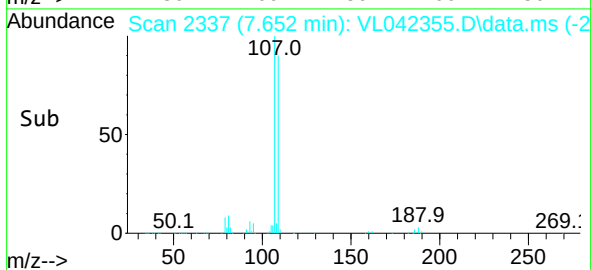
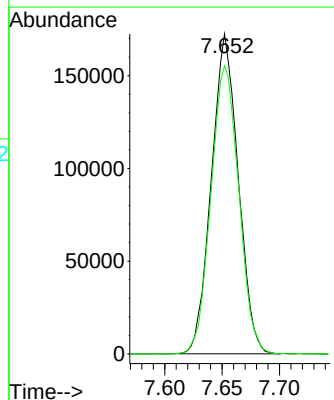
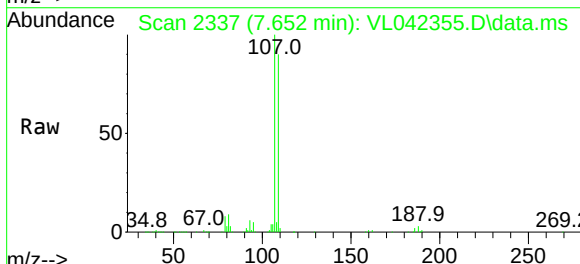
Manual Integrations
APPROVED

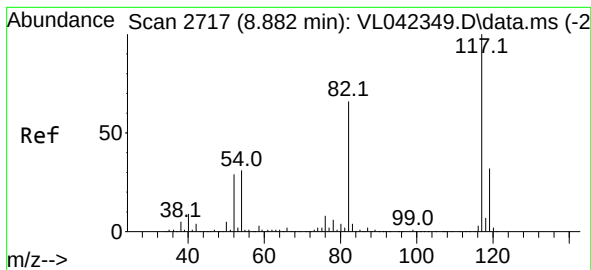
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#54
1,2-Dibromoethane
Concen: 14.442 ppbv
RT: 7.652 min Scan# 2337
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:107 Resp: 280071
Ion Ratio Lower Upper
107 100
109 89.9 78.2 117.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.882 min Scan# 2717

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

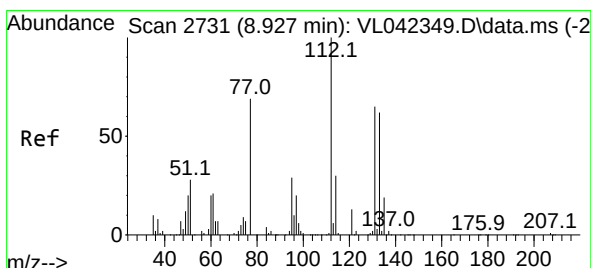
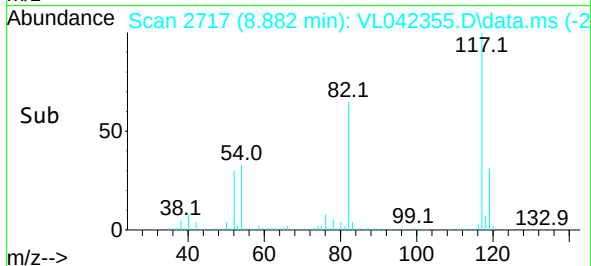
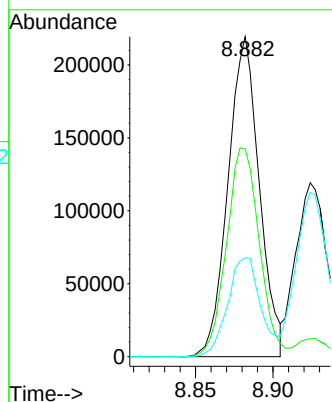
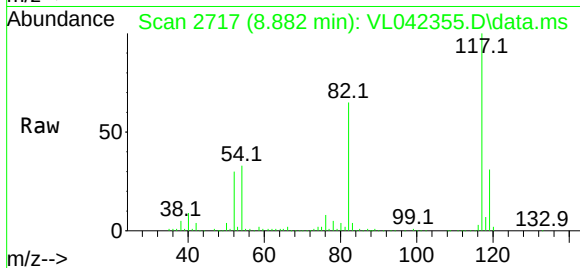
Tgt Ion:117 Resp: 30846

Ion	Ratio	Lower	Upper
117	100		
82	74.2	57.8	86.6
119	31.4	25.2	37.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#56

1,1,1,2-Tetrachloroethane

Concen: 14.389 ppbv

RT: 8.927 min Scan# 2731

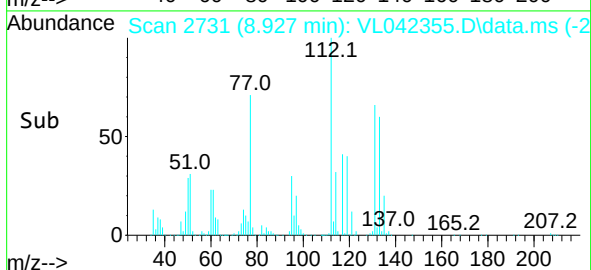
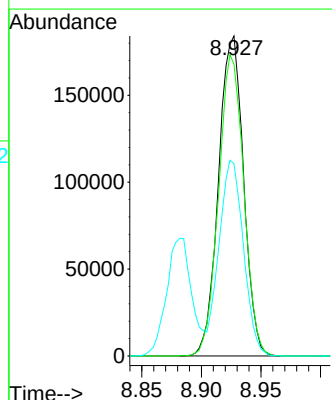
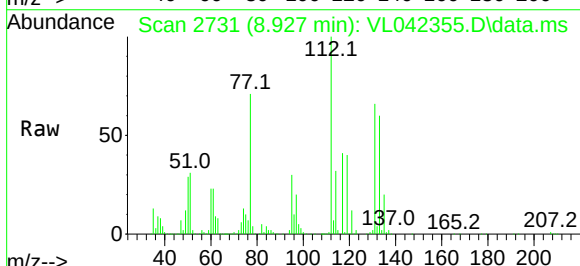
Delta R.T. 0.000 min

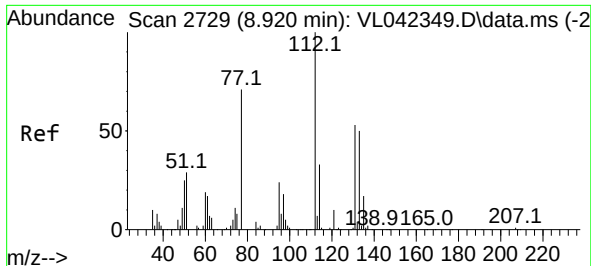
Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Tgt Ion:131 Resp: 268626

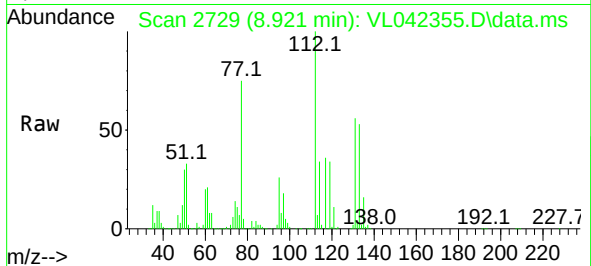
Ion	Ratio	Lower	Upper
131	100		
133	94.6	78.3	117.5
119	59.4	48.7	73.1





#57
Chlorobenzene
Concen: 14.151 ppbv
RT: 8.921 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

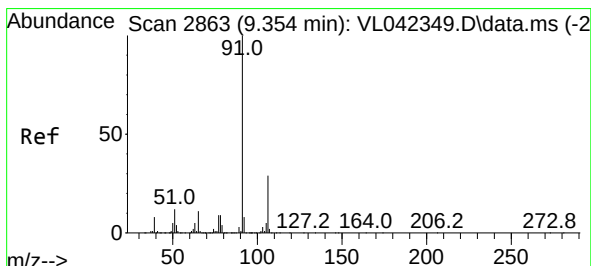
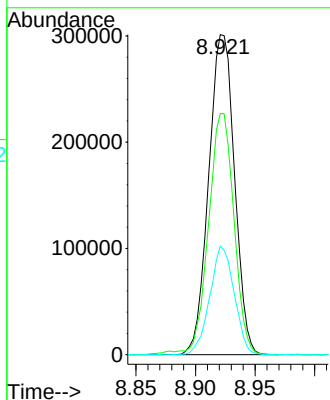
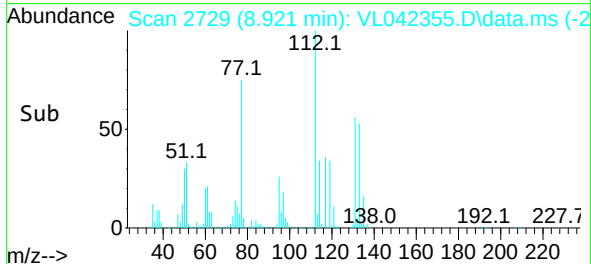
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



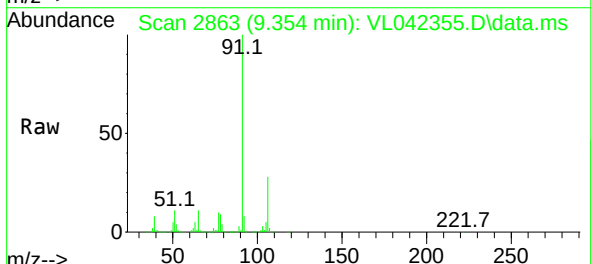
Tgt Ion:112 Resp: 45401
Ion Ratio Lower Upper
112 100
77 75.3 57.8 86.6
114 33.9 29.3 35.9

Manual Integrations
APPROVED

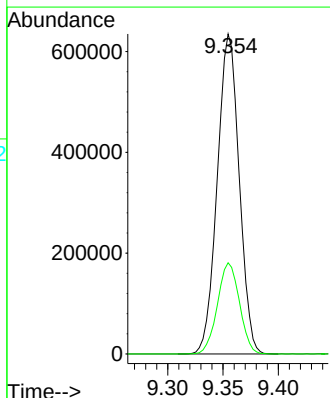
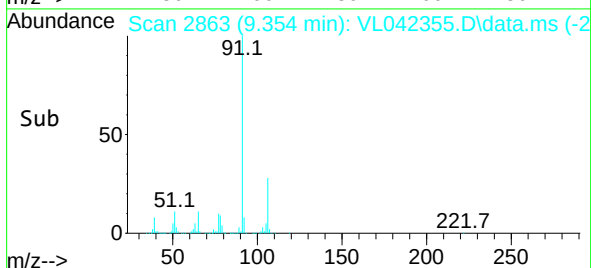
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

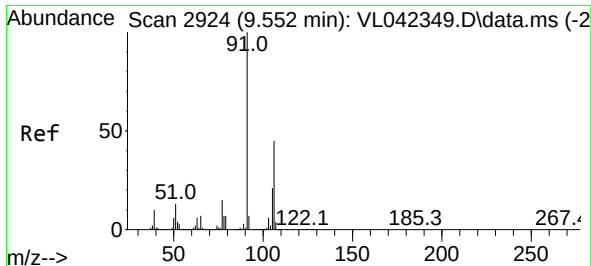


#58
Ethyl Benzene
Concen: 14.308 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



Tgt Ion: 91 Resp: 874424
Ion Ratio Lower Upper
91 100
106 28.5 23.0 34.4





#59

m/p-Xylene

Concen: 28.109 ppbv m

RT: 9.552 min Scan# 2924

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

Tgt Ion: 91 Resp: 138808

Ion Ratio Lower Upper

91 100

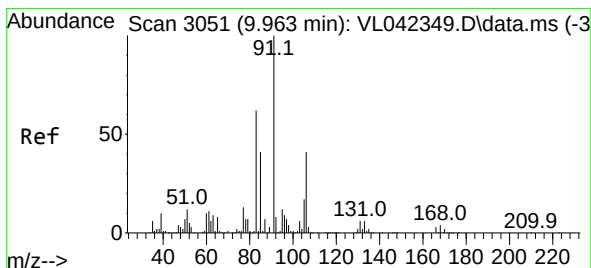
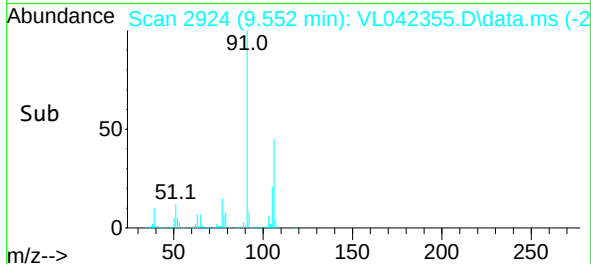
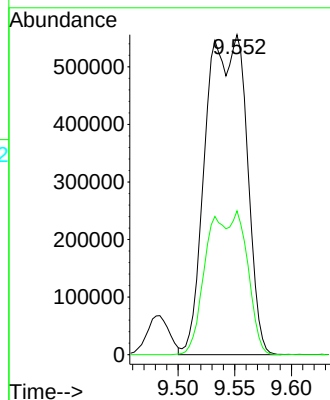
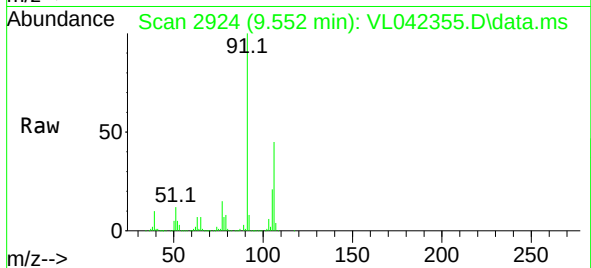
106 44.5 35.4 53.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#60

o-Xylene

Concen: 13.902 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. 0.000 min

Lab File: VL042355.D

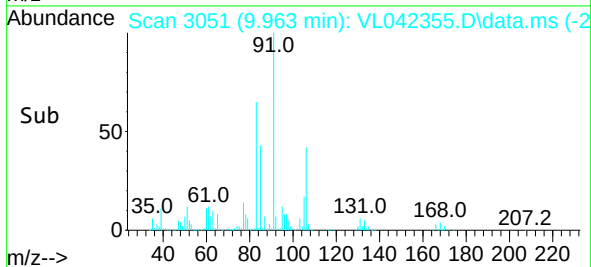
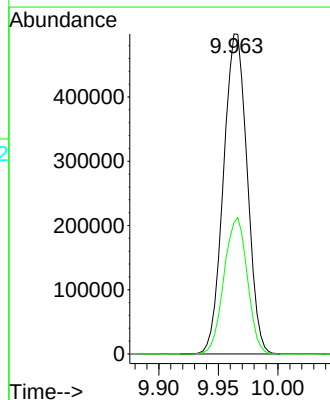
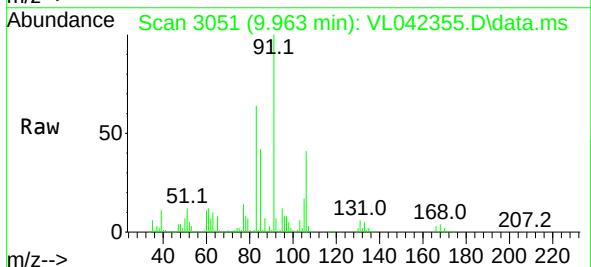
Acq: 17 Apr 2025 12:54

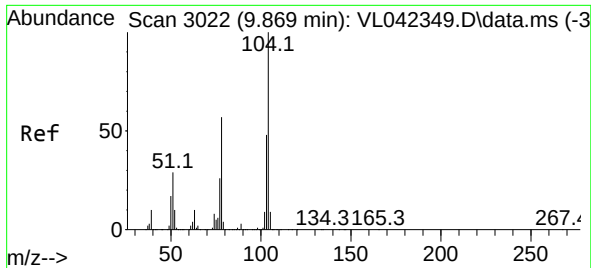
Tgt Ion: 91 Resp: 689246

Ion Ratio Lower Upper

91 100

106 41.9 21.1 63.4





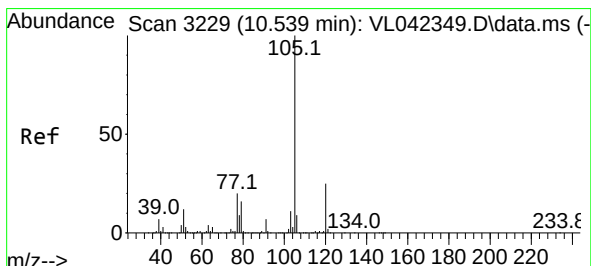
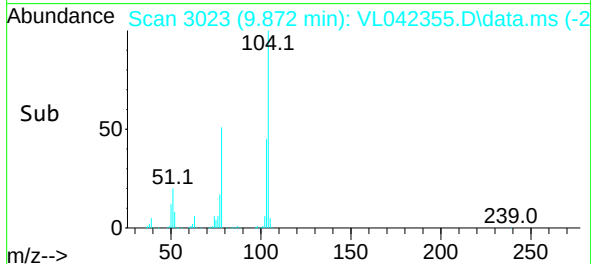
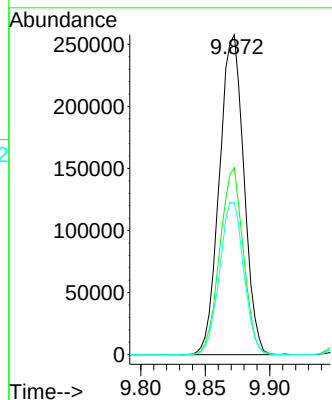
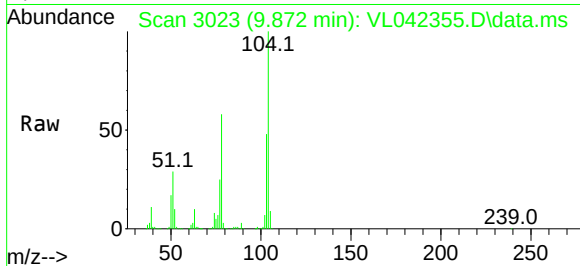
#61
Styrene
Concen: 14.347 ppbv
RT: 9.872 min Scan# 3022
Delta R.T. 0.004 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion:104 Resp: 339508
Ion Ratio Lower Upper
104 100
78 56.4 44.6 66.8
103 47.3 37.4 56.0

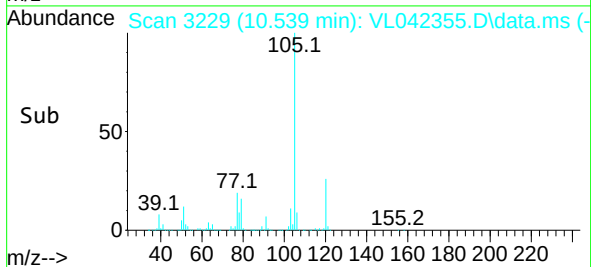
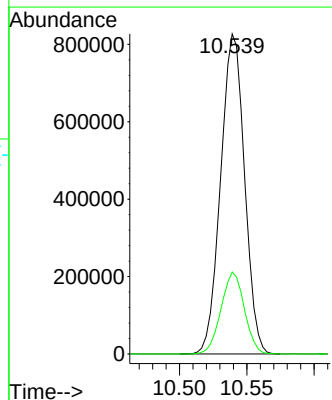
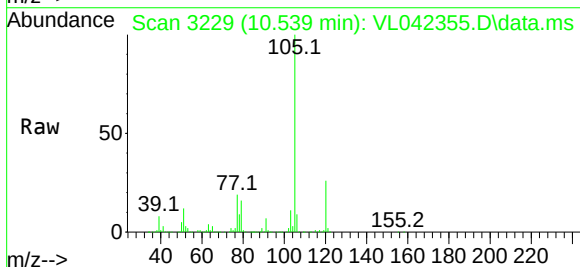
Manual Integrations
APPROVED

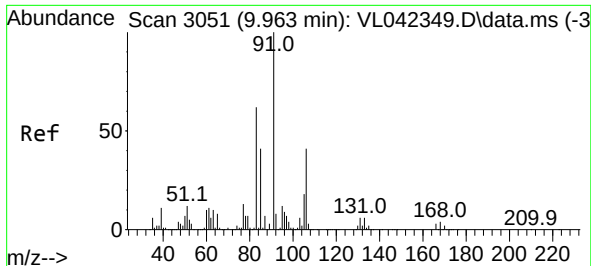
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#62
Isopropylbenzene
Concen: 13.999 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

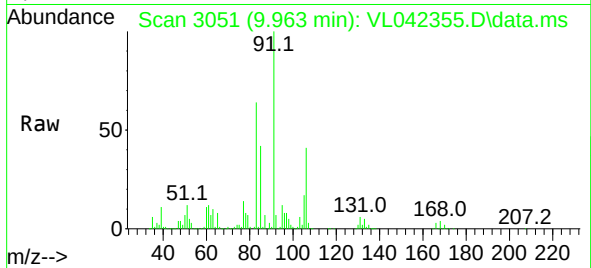
Tgt Ion:105 Resp: 1018968
Ion Ratio Lower Upper
105 100
120 25.0 19.8 29.8





#63
1,1,2,2-Tetrachloroethane
Concen: 12.816 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

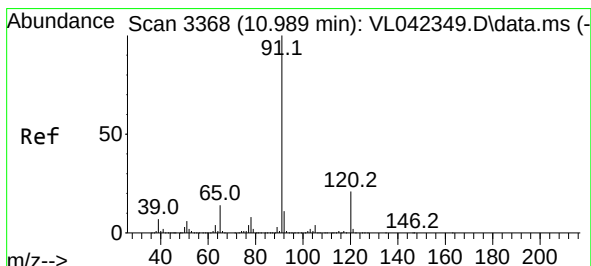
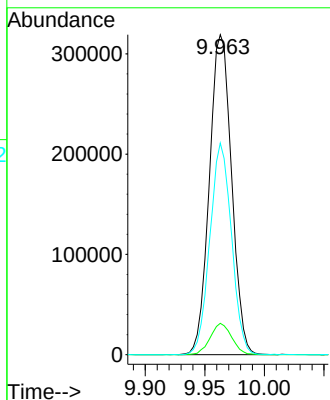
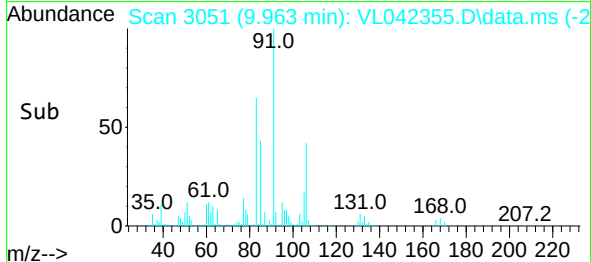
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



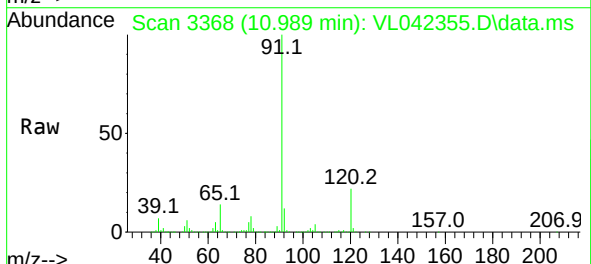
Tgt Ion: 83 Resp: 412898
Ion Ratio Lower Upper
83 100
131 9.5 4.5 13.7
85 64.5 32.4 97.0

Manual Integrations
APPROVED

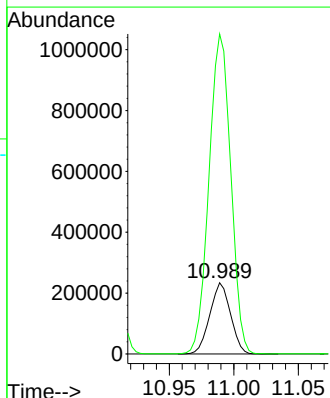
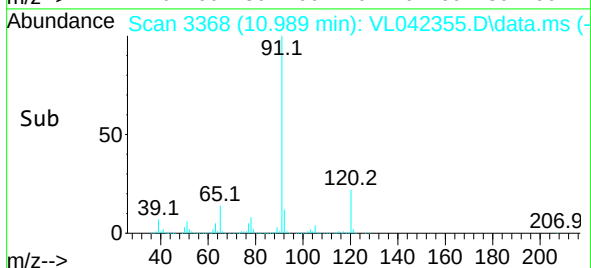
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

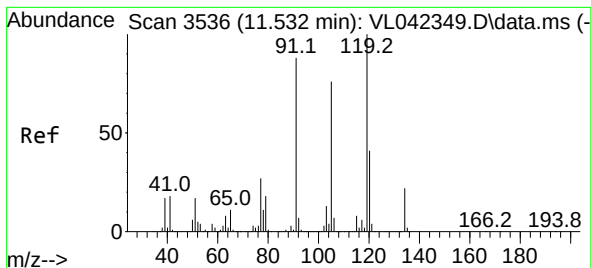


#64
n-propylbenzene
Concen: 14.255 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



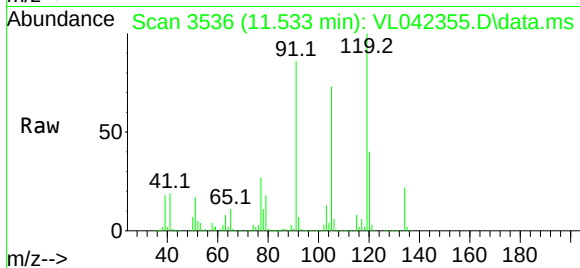
Tgt Ion:120 Resp: 260812
Ion Ratio Lower Upper
120 100
91 473.2 392.4 588.6





#65
tert-Butylbenzene
Concen: 13.449 ppbv
RT: 11.533 min Scan# 3536
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

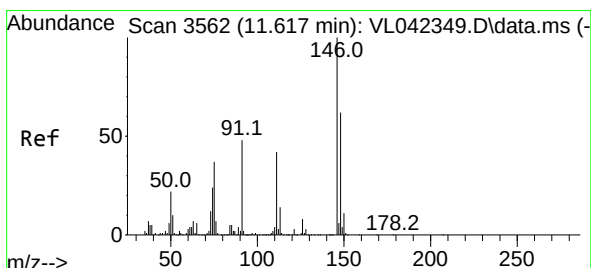
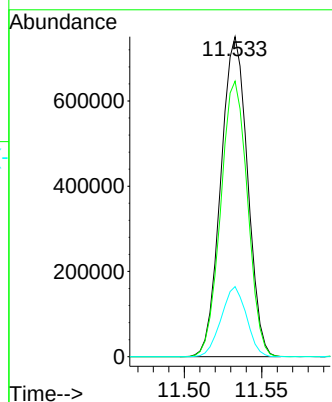
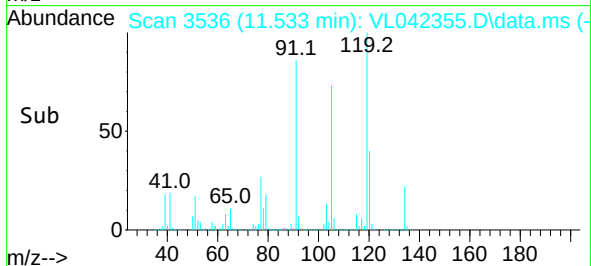
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



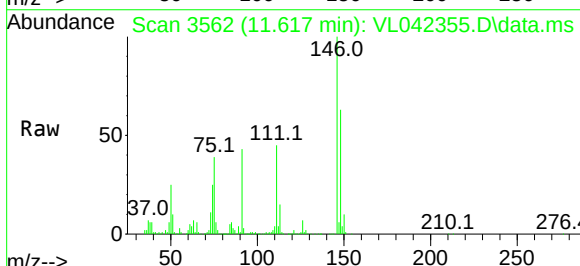
Tgt Ion: 119 Resp: 899720
Ion Ratio Lower Upper
119 100
91 86.2 74.6 111.8
134 20.8 18.8 28.2

Manual Integrations
APPROVED

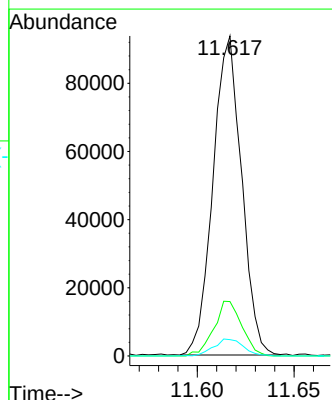
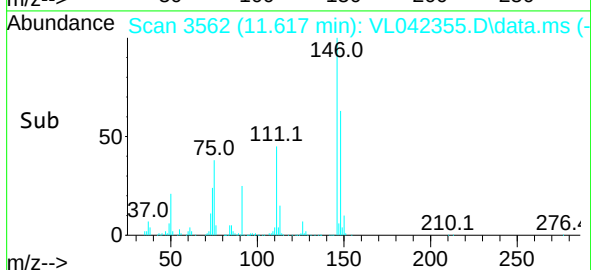
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

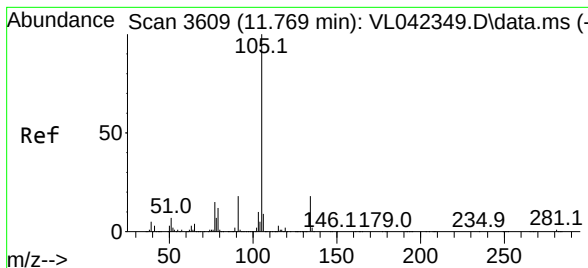


#66
Benzyl Chloride
Concen: 13.061 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



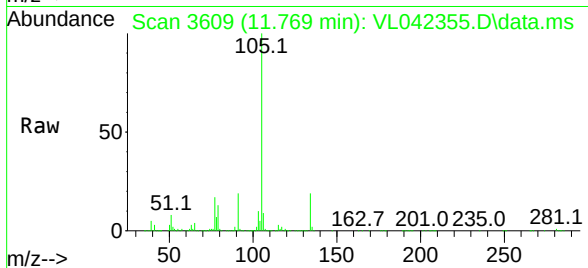
Tgt Ion: 91 Resp: 96016
Ion Ratio Lower Upper
91 100
126 16.8 11.8 17.6
128 5.5 4.5 6.7





#67
 sec-Butylbenzene
 Concen: 13.468 ppbv
 RT: 11.769 min Scan# 3609
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

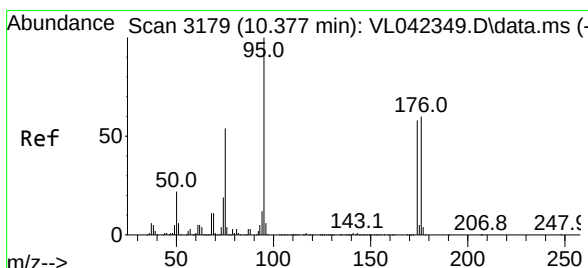
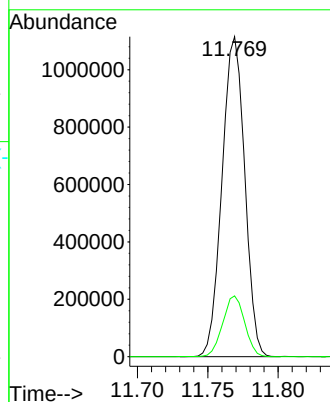
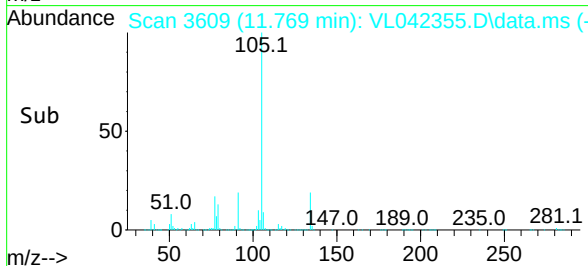
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



Tgt Ion:105 Resp: 125326
 Ion Ratio Lower Upper
 105 100
 134 18.4 14.6 21.8

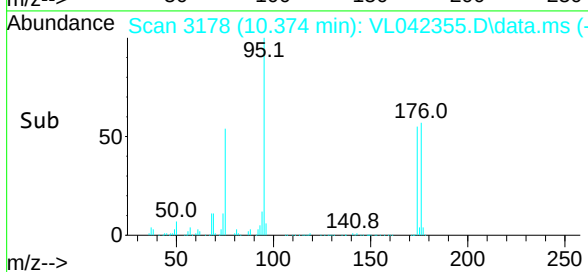
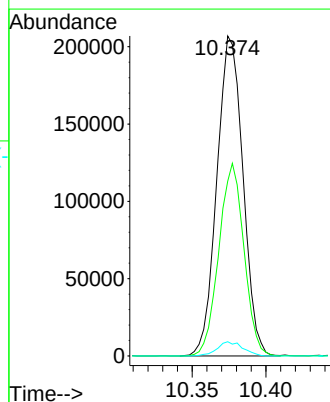
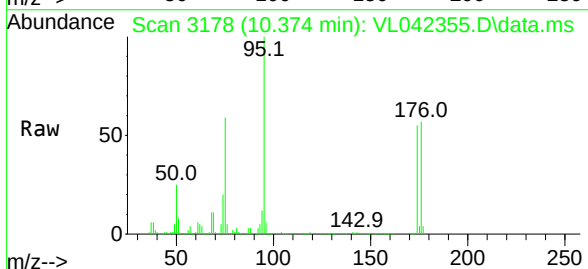
Manual Integrations APPROVED

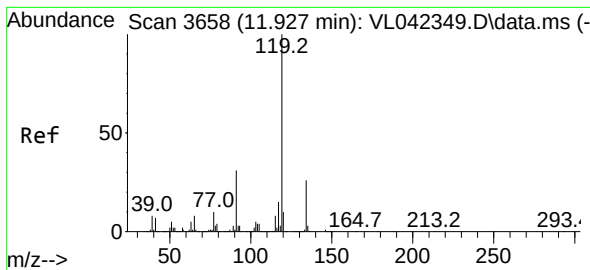
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.038 ppbv
 RT: 10.374 min Scan# 3178
 Delta R.T. -0.003 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

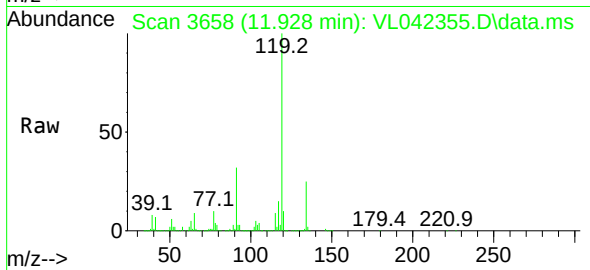
Tgt Ion: 95 Resp: 254437
 Ion Ratio Lower Upper
 95 100
 174 58.1 48.5 72.7
 175 4.4 3.7 5.5





#69
p-Isopropyltoluene
Concen: 13.382 ppbv
RT: 11.928 min Scan# 3658
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

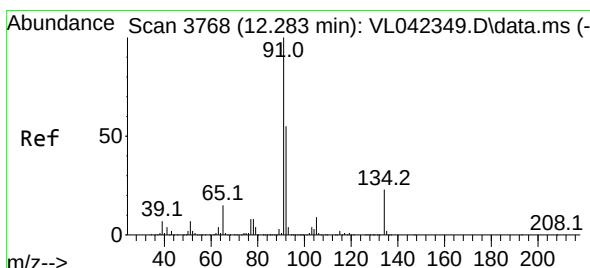
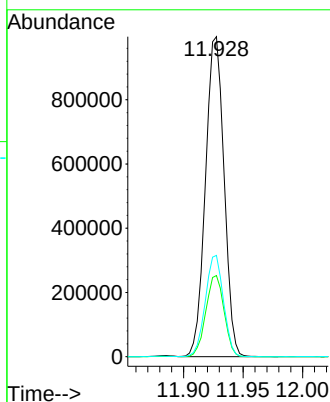
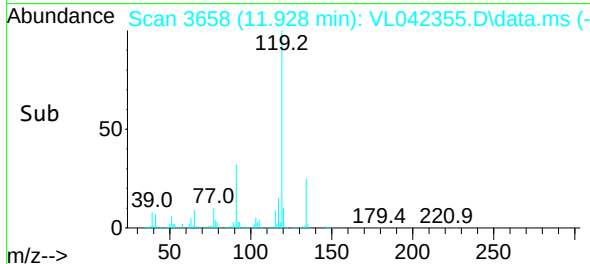
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



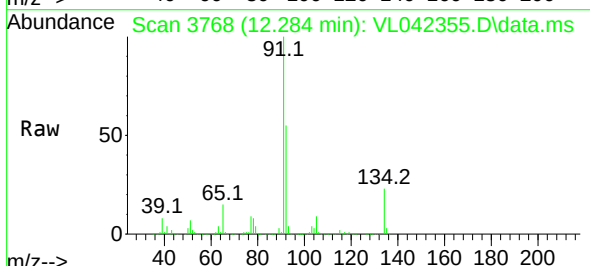
Tgt Ion:119 Resp: 1081850
Ion Ratio Lower Upper
119 100
134 25.0 20.0 30.0
91 31.1 24.4 36.6

Manual Integrations
APPROVED

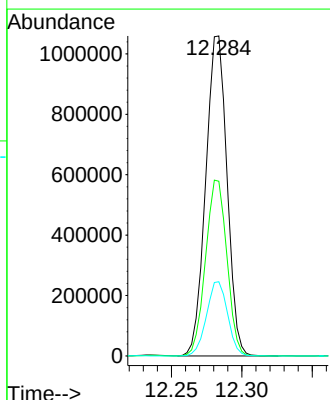
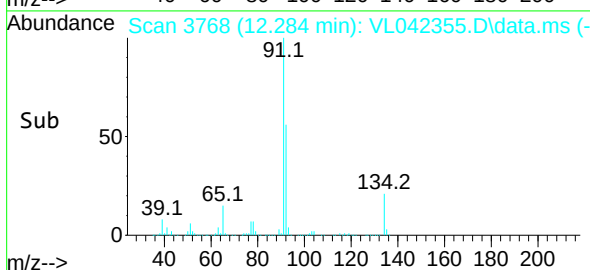
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

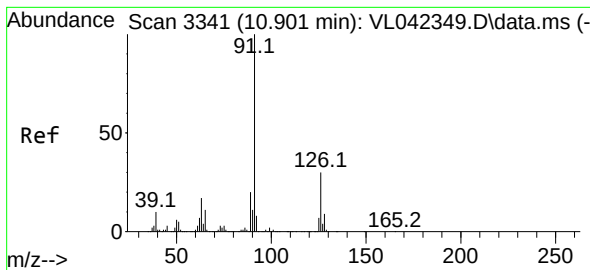


#70
n-Butylbenzene
Concen: 13.266 ppbv
RT: 12.284 min Scan# 3768
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



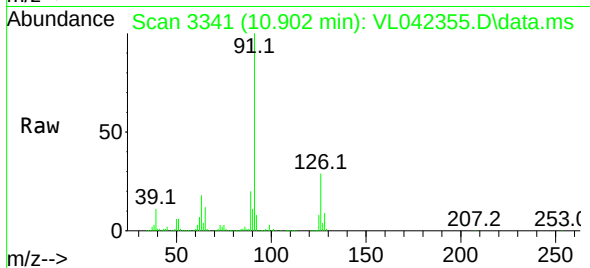
Tgt Ion: 91 Resp: 1117042
Ion Ratio Lower Upper
91 100
92 55.3 44.2 66.4
134 23.0 18.2 27.4





#71
2-Chlorotoluene
Concen: 14.131 ppbv
RT: 10.902 min Scan# 3341
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

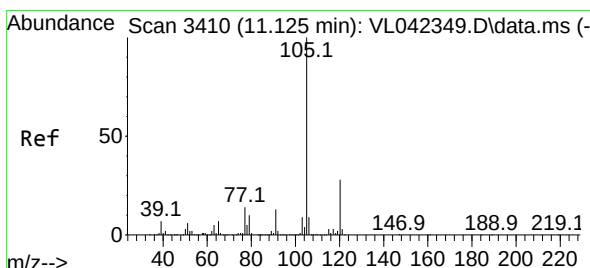
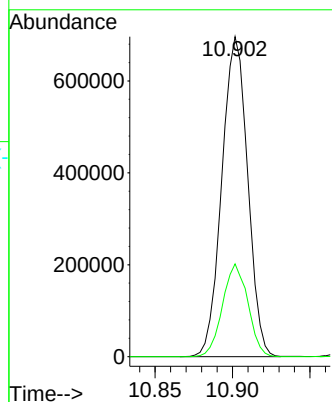
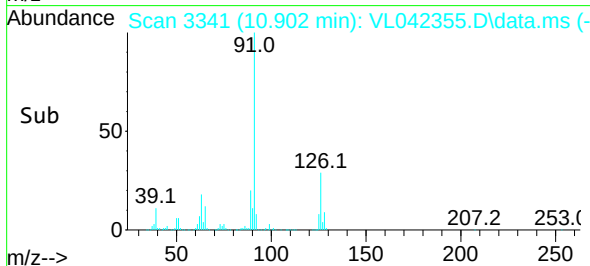
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



Tgt Ion: 91 Resp: 806728
Ion Ratio Lower Upper
91 100
126 28.4 11.4 45.4

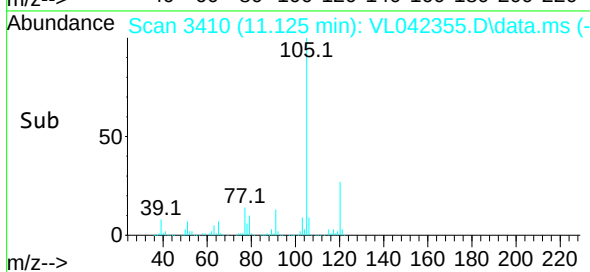
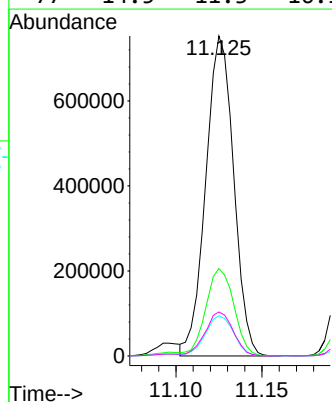
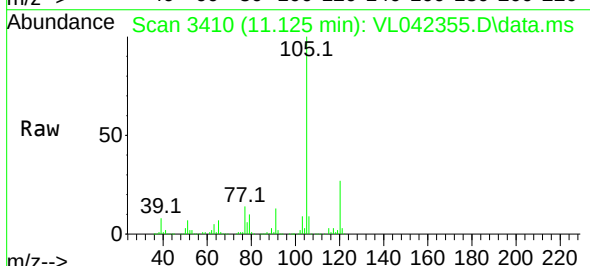
Manual Integrations
APPROVED

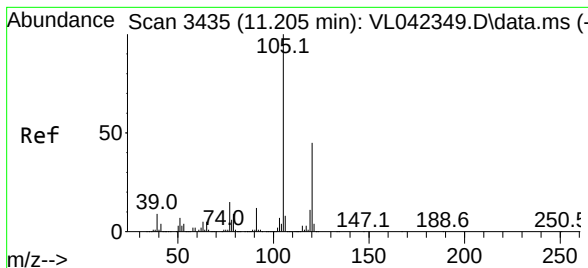
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#72
4-Ethyltoluene
Concen: 13.992 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:105 Resp: 848077
Ion Ratio Lower Upper
105 100
120 28.7 23.2 34.8
91 13.5 10.4 15.6
77 14.5 11.3 16.9





#73

1,3,5-Trimethylbenzene

Concen: 13.578 ppbv

RT: 11.206 min Scan# 3435

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion:105 Resp: 726558

Ion Ratio Lower Upper

105 100

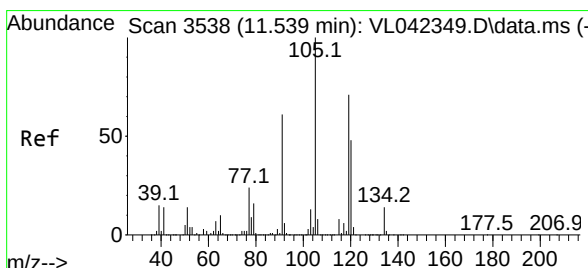
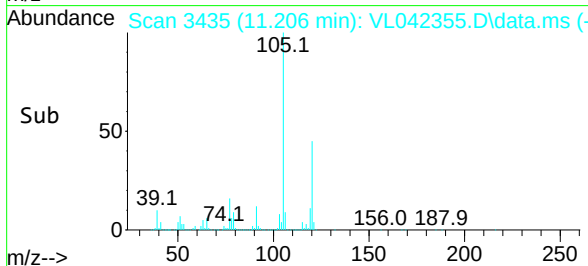
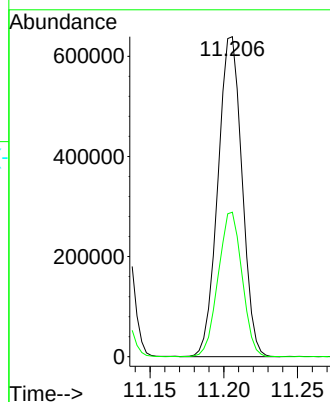
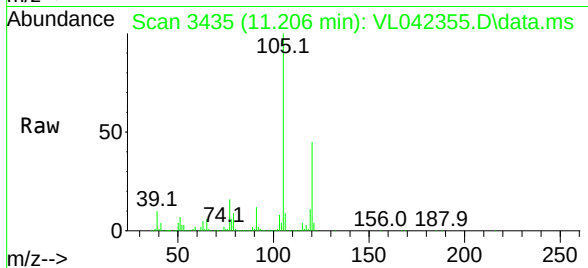
120 45.1 35.6 53.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#74

1,2,4-Trimethylbenzene

Concen: 12.572 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Tgt Ion:105 Resp: 785772

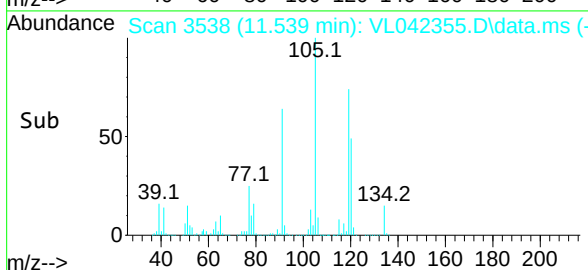
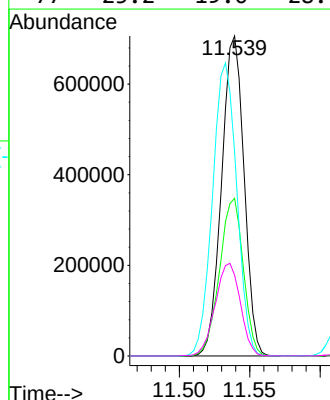
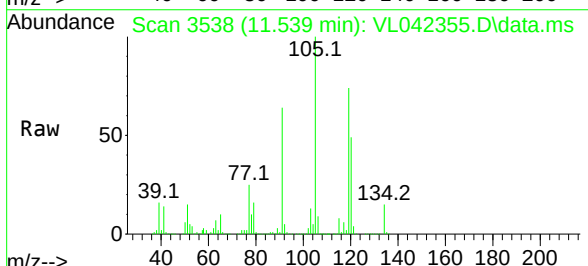
Ion Ratio Lower Upper

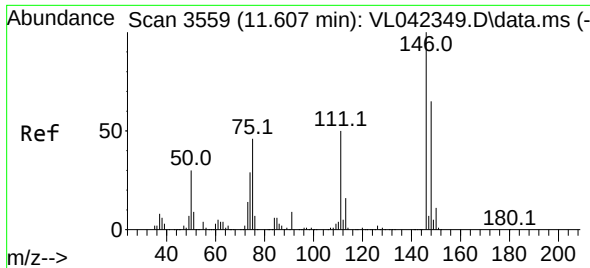
105 100

120 49.3 38.1 57.1

91 63.7 48.8 73.2

77 25.2 19.0 28.4





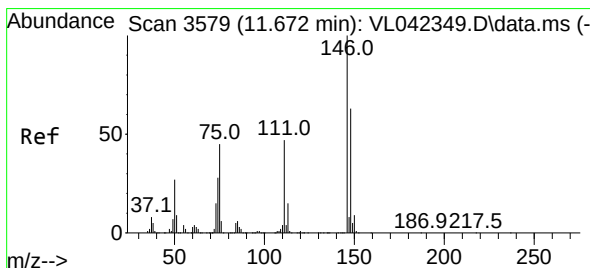
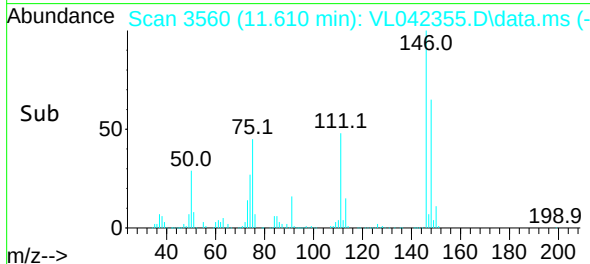
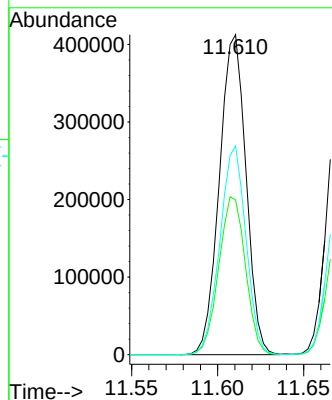
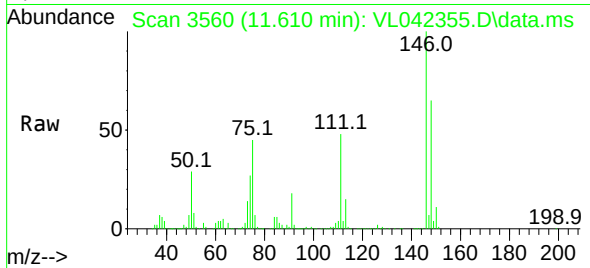
#75
1,3-Dichlorobenzene
Concen: 13.670 ppbv
RT: 11.610 min Scan# 3559
Delta R.T. 0.004 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion:146 Resp: 444086
Ion Ratio Lower Upper
146 100
111 49.6 24.3 72.8
148 63.9 31.6 94.8

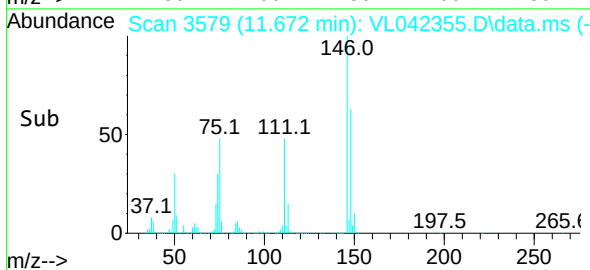
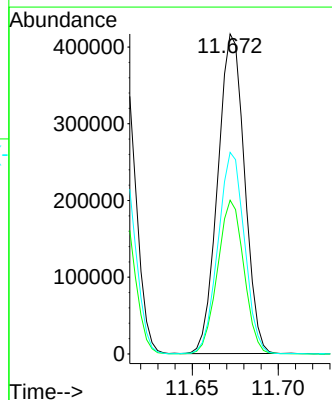
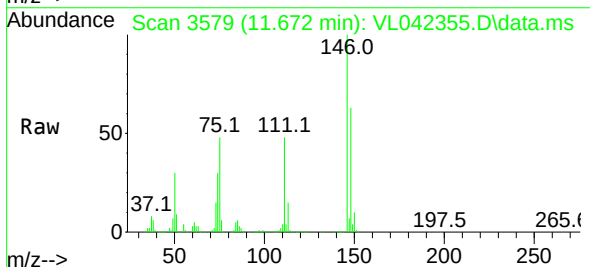
Manual Integrations
APPROVED

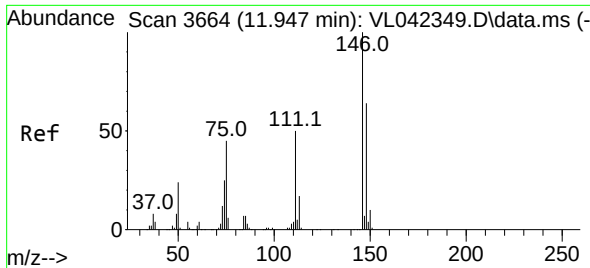
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#76
1,4-Dichlorobenzene
Concen: 13.802 ppbv
RT: 11.672 min Scan# 3579
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

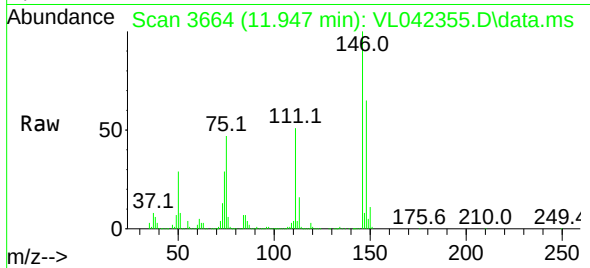
Tgt Ion:146 Resp: 450662
Ion Ratio Lower Upper
146 100
111 47.4 24.2 72.6
148 62.6 32.1 96.5





#77
1,2-Dichlorobenzene
Concen: 13.529 ppbv
RT: 11.947 min Scan# 3664
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

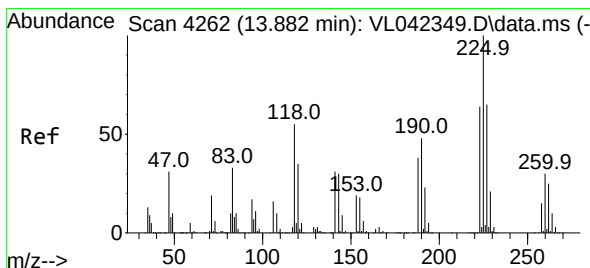
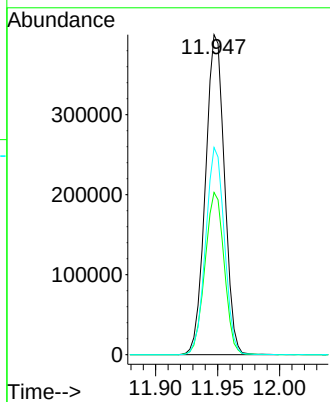
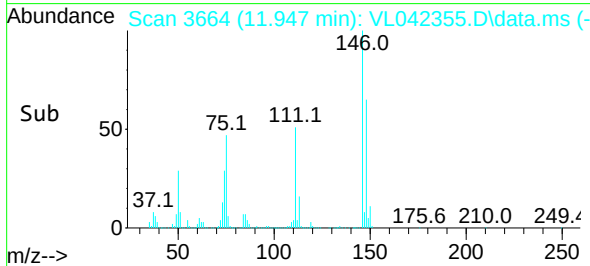
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



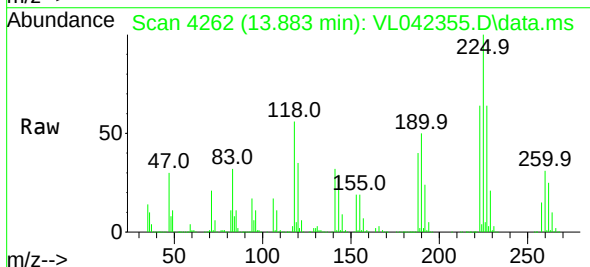
Tgt Ion:146 Resp: 427372
Ion Ratio Lower Upper
146 100
111 51.3 25.3 75.9
148 63.8 31.5 94.5

Manual Integrations
APPROVED

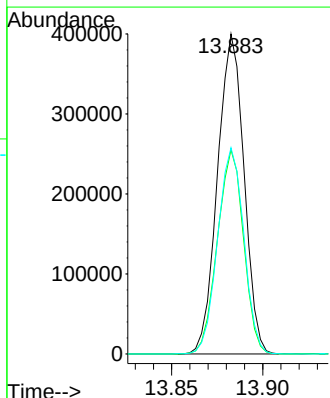
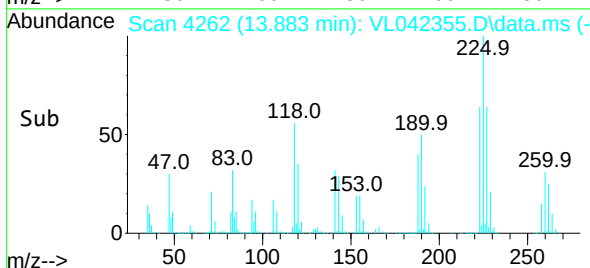
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

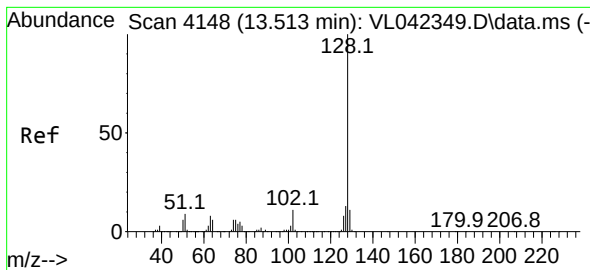


#78
Hexachloro-1,3-Butadiene
Concen: 12.679 ppbv
RT: 13.883 min Scan# 4262
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



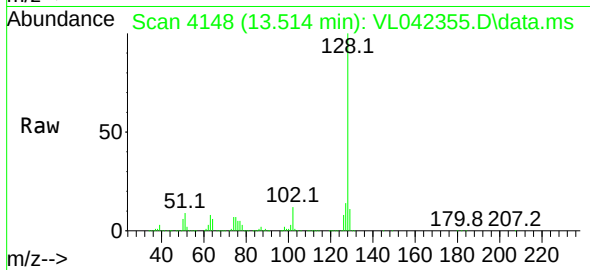
Tgt Ion:225 Resp: 404441
Ion Ratio Lower Upper
225 100
223 62.8 50.3 75.5
227 63.8 51.5 77.3





#79
Naphthalene
Concen: 12.632 ppbv
RT: 13.514 min Scan# 4148
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

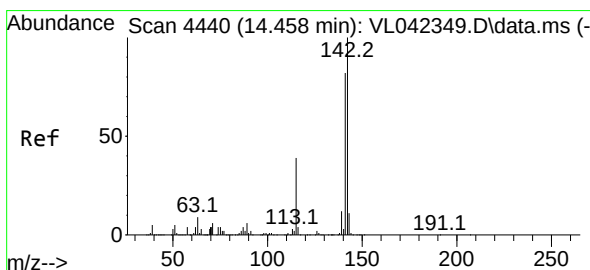
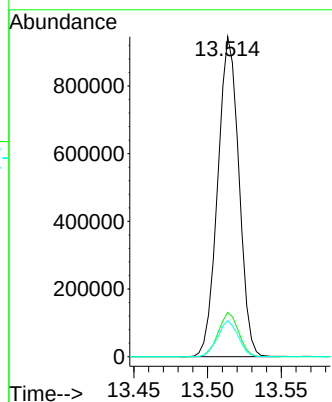
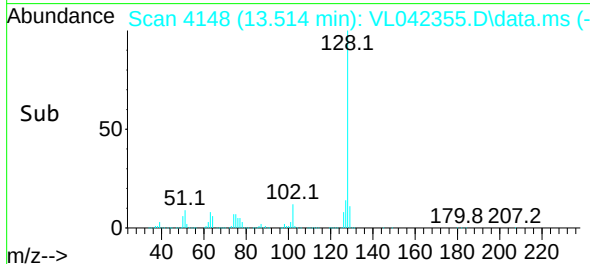
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



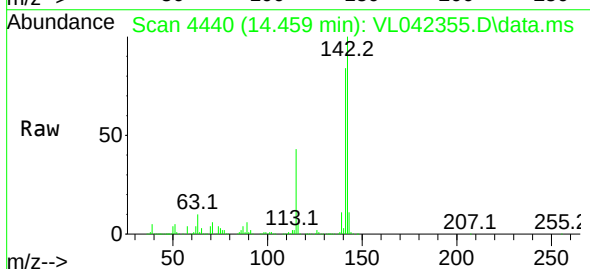
Tgt Ion:128 Resp: 944085
Ion Ratio Lower Upper
128 100
127 13.9 10.6 15.8
129 11.3 8.6 12.8

Manual Integrations
APPROVED

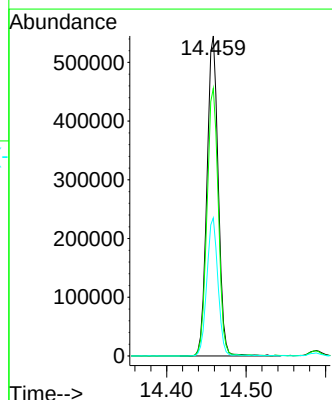
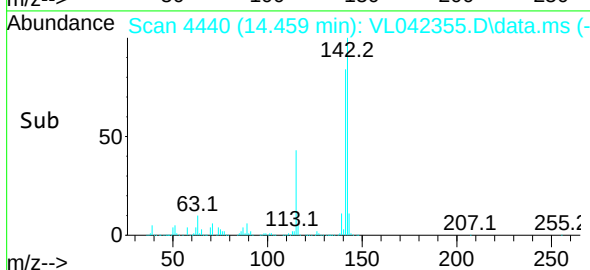
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

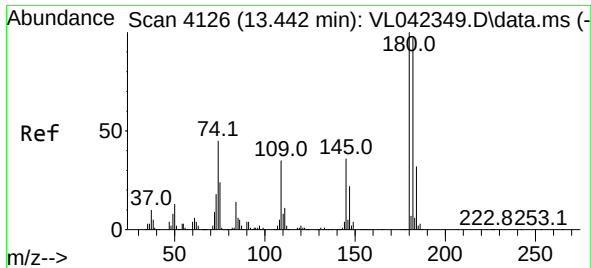


#80
Naphthalene,2-methyl-
Concen: 12.686 ppbv
RT: 14.459 min Scan# 4440
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



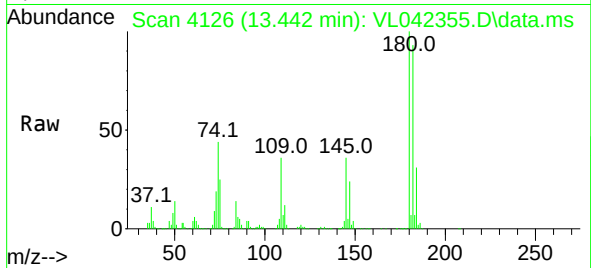
Tgt Ion:142 Resp: 540339
Ion Ratio Lower Upper
142 100
141 84.3 66.8 100.2
115 43.0 33.4 50.2





#81
 1,2,4-Trichlorobenzene
 Concen: 13.398 ppbv
 RT: 13.442 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

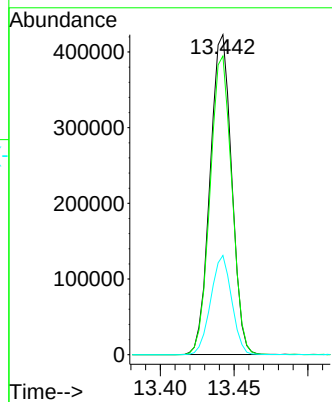
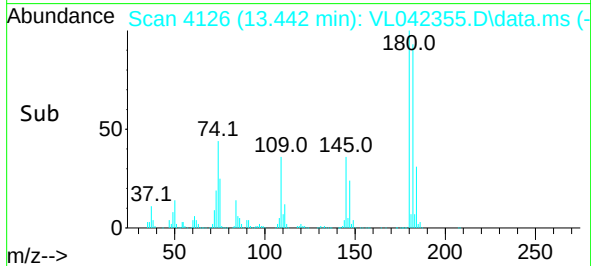
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



Tgt Ion:180 Resp: 42998
 Ion Ratio Lower Upper
 180 100
 182 94.3 76.8 115.2
 184 30.2 24.6 36.8

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042356.D
 Acq On : 17 Apr 2025 13:43
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL041725

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 04/18/2025
 Supervised By : Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 02:15:19 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

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

QLast Update : Fri Apr 18 02:14:00 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	113992	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.958	114	324528	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.881	117	305357	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 250149 9.969 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 99.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	197623	9.812	ppbv	100
3) Chlorodifluoromethane	1.476	51	191010	9.960	ppbv	99
4) Chloromethane	1.531	50	78080	9.796	ppbv	98
5) Vinyl Chloride	1.580	62	75628	8.717	ppbv	97
6) Bromomethane	1.667	94	35115	9.422	ppbv	84
7) Chloroethane	1.703	64	30158	9.612	ppbv	99
8) Dichlorotetrafluoroethane	1.554	85	172863	9.997	ppbv	98
9) Propene	1.482	41	84636	9.690	ppbv	95
10) Heptane	4.978	43	221840	9.041	ppbv	98
11) Trichlorofluoromethane	1.877	101	187827	9.807	ppbv	99
12) 1,1,2-Trichlorotrifluoro...	2.140	101	148485	9.482	ppbv	100
13) Ethanol	1.722	45	4171	3.005	ppbv	97
14) Bromoethene	1.780	108	58320	9.880	ppbv	99
15) Acetone	1.835	43	158708	8.505	ppbv	100
16) 1,3-Butadiene	1.609	39	78804	8.829	ppbv	95
17) tert-Butyl alcohol	2.039	59	218954	9.468	ppbv	99
18) 1,1-Dichloroethene	2.033	96	67940	9.287	ppbv	94
19) Isopropyl Alcohol	1.887	45	96365	9.296	ppbv	95
20) Methylene Chloride	2.062	84	59203	8.101	ppbv	91
21) Allyl Chloride	2.094	41	120704	9.368	ppbv	98
22) trans-1,2-Dichloroethene	2.340	96	78070	9.373	ppbv	99
23) Vinyl Acetate	2.463	43	73373	9.714	ppbv	99
24) 1,1-Dichloroethane	2.408	63	155571	9.832	ppbv	100
25) Ethyl Acetate	2.835	43	449014	9.759	ppbv	99
26) Hexane	2.826	57	175752	9.439	ppbv	98
27) Carbon Disulfide	2.149	76	191117	9.587	ppbv	100
28) Methyl tert-Butyl Ether	2.441	73	115190	9.442	ppbv	94
29) Chloroform	2.848	83	260855	9.912	ppbv	98
30) Cyclohexane	3.855	84	148246	9.849	ppbv	99
31) cis-1,2-Dichloroethene	2.719	61	179993	10.167	ppbv	99
32) 1,1,1-Trichloroethane	3.369	97	276599	9.336	ppbv	98
34) 2-Butanone	2.557	43	248969	9.700	ppbv	99
35) Carbon Tetrachloride	3.764	117	271862	9.256	ppbv	98
36) Benzene	3.657	78	350545	10.014	ppbv	99
37) 1,2-Dichloroethane	3.217	62	211790	10.081	ppbv	99
38) Trichloroethene	4.551	130	139872	9.143	ppbv	96
39) 1,2-Dichloropropane	4.315	63	129239	9.908	ppbv	99
40) 1,4-Dioxane	4.583	88	61587	8.591	ppbv #	96
41) Tetrahydrofuran	3.052	42	141861	9.479	ppbv	99
42) Bromodichloromethane	4.489	83	296946	10.156	ppbv	96
43) Methyl Methacrylate	4.878	69	149209	9.458	ppbv	96
44) 2,2,4-Trimethylpentane	4.641	57	606376	10.030	ppbv	99
45) t-1,3-Dichloropropene	6.412	75	160750	9.975	ppbv	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042356.D
 Acq On : 17 Apr 2025 13:43
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL041725

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 02:15:19 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

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

QLast Update : Fri Apr 18 02:14:00 2025

Response via : Initial Calibration

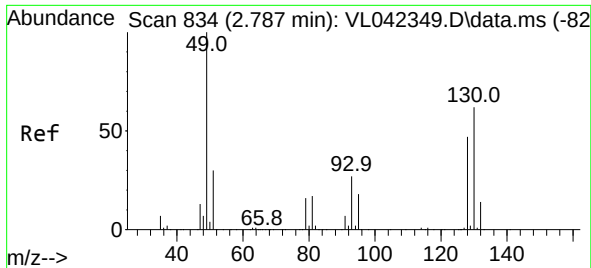
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.599	75	200144	10.148	ppbv	88
47) 1,1,2-Trichloroethane	6.583	97	135575	10.202	ppbv	95
48) Dibromochloromethane	7.389	129	237206	10.103	ppbv	100
49) Bromoform	9.483	173	205630	10.016	ppbv	99
50) 4-Methyl-2-Pentanone	5.748	43	376145	8.819	ppbv	99
51) 2-Hexanone	7.435	43	310521	8.118	ppbv #	99
52) Tetrachloroethene	8.224	164	119424	8.827	ppbv	94
53) Toluene	6.933	91	419462	9.986	ppbv	99
54) 1,2-Dibromoethane	7.652	107	186231	9.792	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.927	131	182712	9.886	ppbv	97
57) Chlorobenzene	8.920	112	304533	9.589	ppbv	96
58) Ethyl Benzene	9.354	91	583515	9.645	ppbv	99
59) m/p-Xylene	9.532	91	932801m	19.139	ppbv	
60) o-Xylene	9.966	91	464522	9.465	ppbv	99
61) Styrene	9.872	104	229869	9.813	ppbv	98
62) Isopropylbenzene	10.539	105	685965	9.520	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.962	83	279007	8.773	ppbv	100
64) n-propylbenzene	10.992	120	172654	9.533	ppbv	99
65) tert-Butylbenzene	11.532	119	609500	9.203	ppbv	93
66) Benzyl Chloride	11.613	91	63051	8.664	ppbv	95
67) sec-Butylbenzene	11.769	105	853807	9.268	ppbv	99
69) p-Isopropyltoluene	11.927	119	737861	9.220	ppbv	99
70) n-Butylbenzene	12.283	91	771461	9.255	ppbv	100
71) 2-Chlorotoluene	10.901	91	543794	9.622	ppbv	98
72) 4-Ethyltoluene	11.124	105	563136	9.385	ppbv	100
73) 1,3,5-Trimethylbenzene	11.205	105	486583	9.186	ppbv	99
74) 1,2,4-Trimethylbenzene	11.539	105	531576	8.592	ppbv	97
75) 1,3-Dichlorobenzene	11.610	146	297157	9.240	ppbv	99
76) 1,4-Dichlorobenzene	11.671	146	297697	9.210	ppbv	98
77) 1,2-Dichlorobenzene	11.950	146	289284	9.251	ppbv	100
78) Hexachloro-1,3-Butadiene	13.882	225	276960	8.771	ppbv	100
79) Naphthalene	13.513	128	647349	8.750	ppbv	99
80) Naphthalene,2-methyl-	14.458	142	350259	8.307	ppbv	99
81) 1,2,4-Trichlorobenzene	13.442	180	290260	9.136	ppbv	99

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

Manual Integrations APPROVED

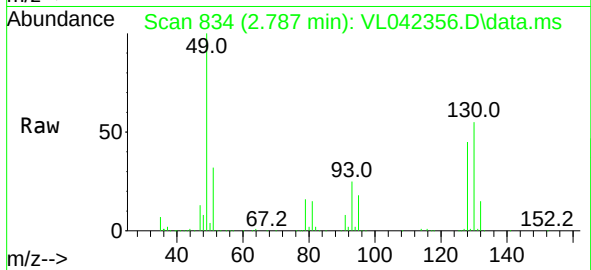
Quant Time: Apr 18 02:15:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 834
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

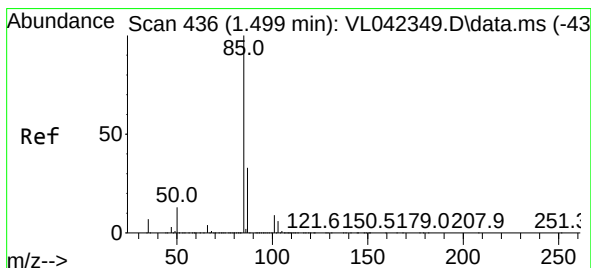
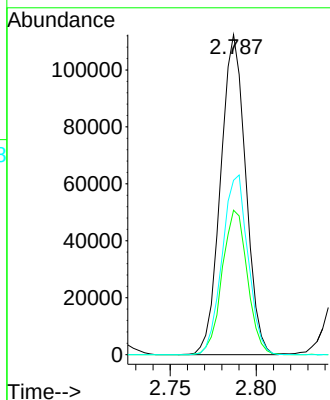
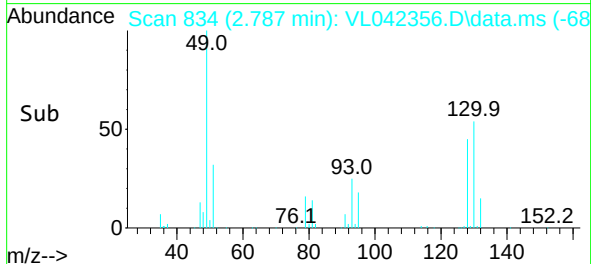
Instrument : MSVOA_L
ClientSampleId : ICVVL041725



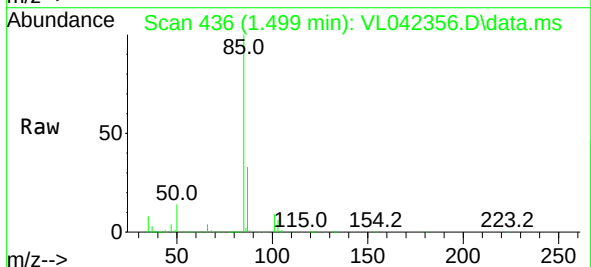
Tgt Ion: 49 Resp: 113992
Ion Ratio Lower Upper
49 100
128 45.5 22.8 68.4
130 57.8 29.3 88.0

Manual Integrations
APPROVED

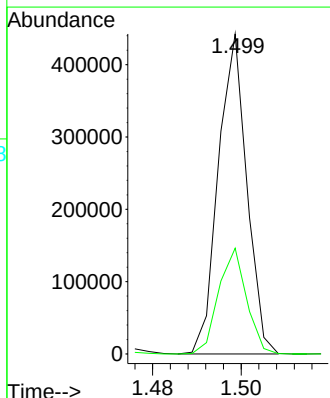
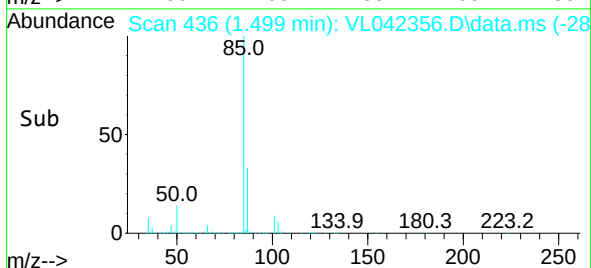
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

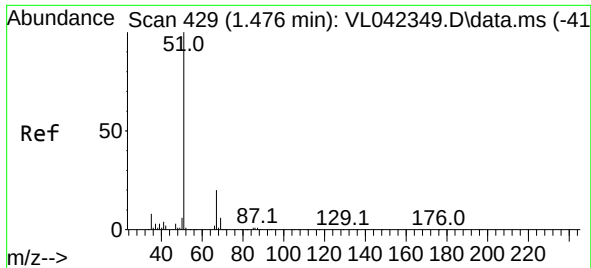


#2
Dichlorodifluoromethane
Concen: 9.812 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



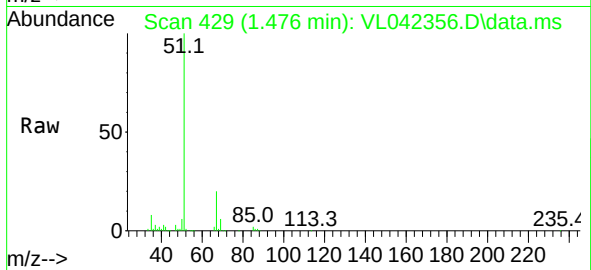
Tgt Ion: 85 Resp: 197623
Ion Ratio Lower Upper
85 100
87 33.1 26.6 39.8





#3
Chlorodifluoromethane
Concen: 9.960 ppbv
RT: 1.476 min Scan# 429
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

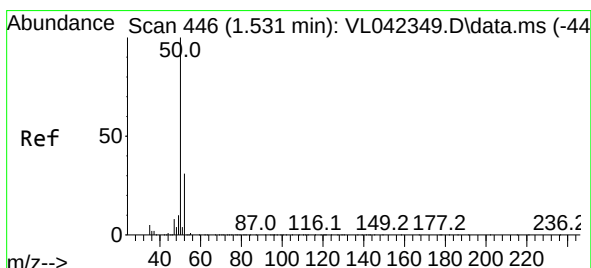
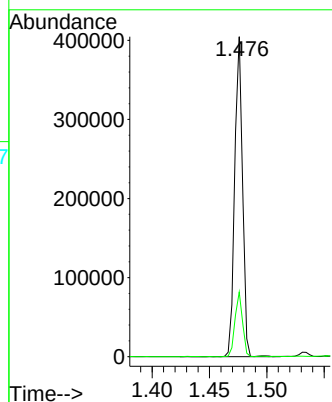
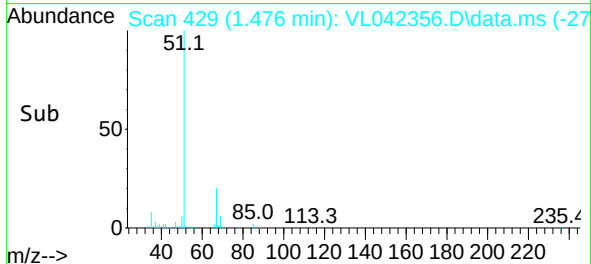
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725



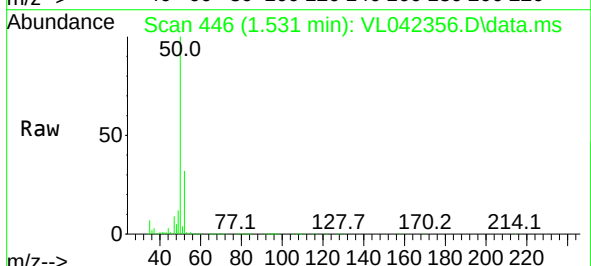
Tgt Ion: 51 Resp: 191010
Ion Ratio Lower Upper
51 100
67 19.6 16.2 24.4

Manual Integrations
APPROVED

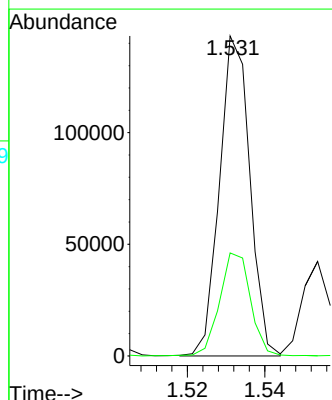
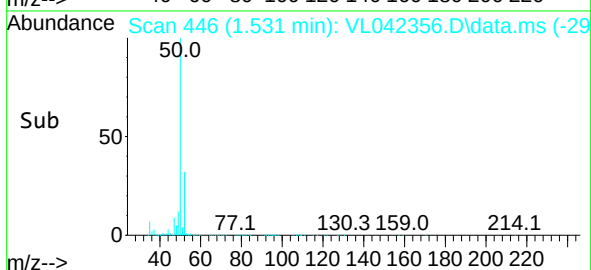
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

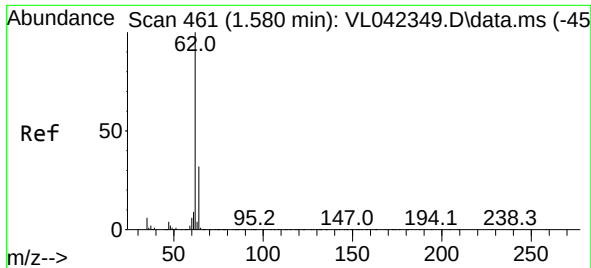


#4
Chloromethane
Concen: 9.796 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



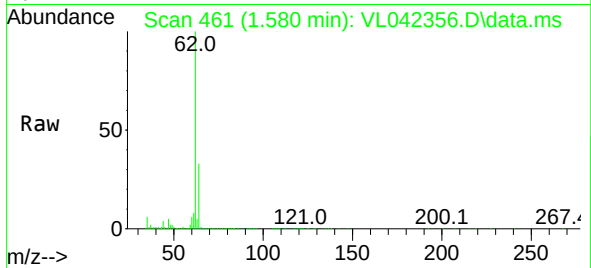
Tgt Ion: 50 Resp: 78080
Ion Ratio Lower Upper
50 100
52 32.0 24.7 37.1





#5
 Vinyl Chloride
 Concen: 8.717 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. -0.000 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

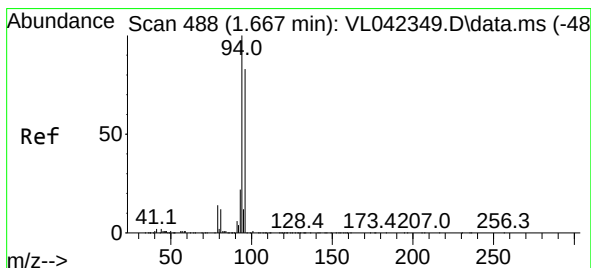
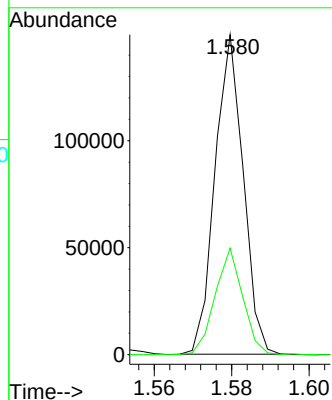
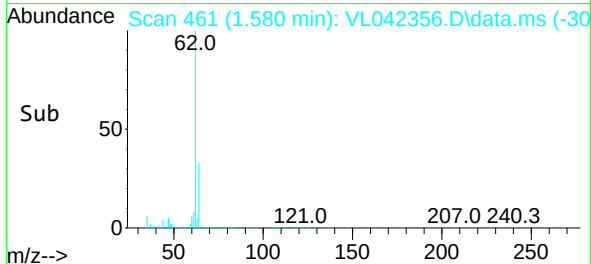
Instrument : MSVOA_L
 ClientSampleId : ICVVL041725



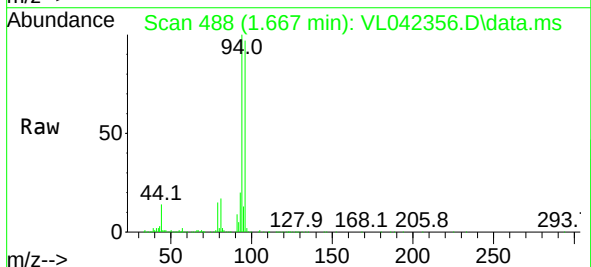
Tgt Ion: 62 Resp: 75628
 Ion Ratio Lower Upper
 62 100
 64 33.3 25.4 38.0

Manual Integrations
 APPROVED

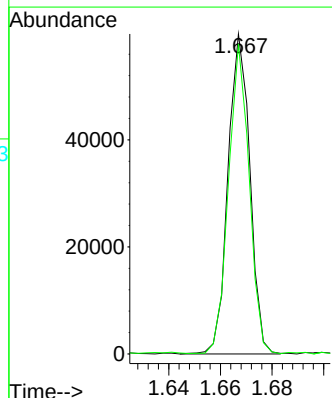
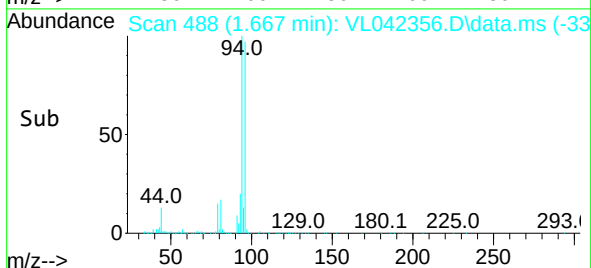
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

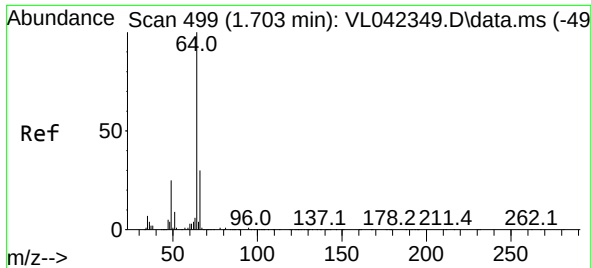


#6
 Bromomethane
 Concen: 9.422 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. -0.000 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43



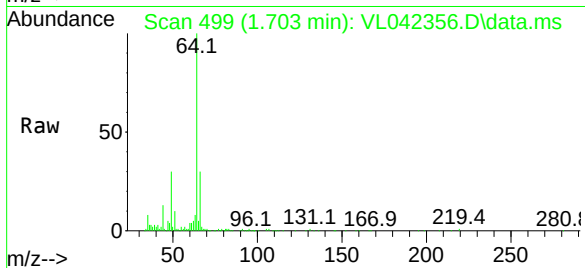
Tgt Ion: 94 Resp: 35115
 Ion Ratio Lower Upper
 94 100
 96 96.8 66.2 99.2





#7
Chloroethane
Concen: 9.612 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

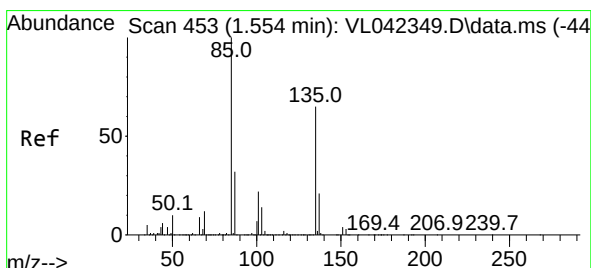
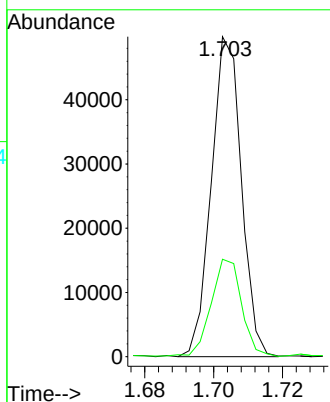
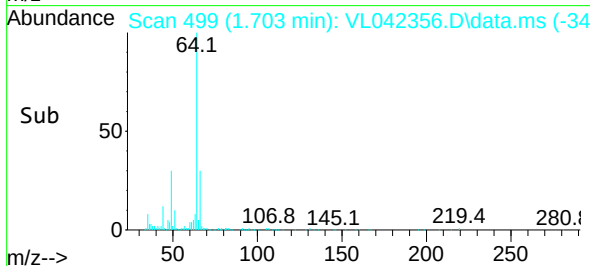
Instrument : MSVOA_L
ClientSampleId : ICVVL041725



Tgt Ion: 64 Resp: 30158
Ion Ratio Lower Upper
64 100
66 30.4 24.6 37.0

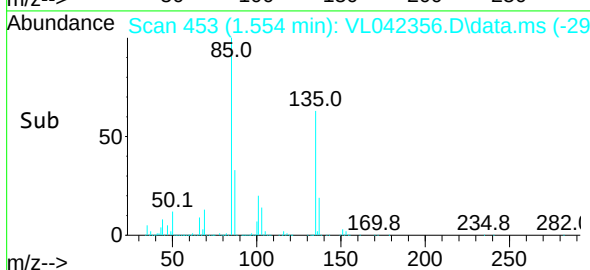
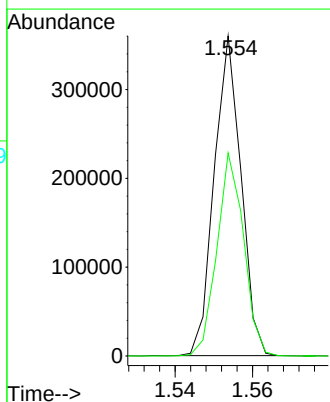
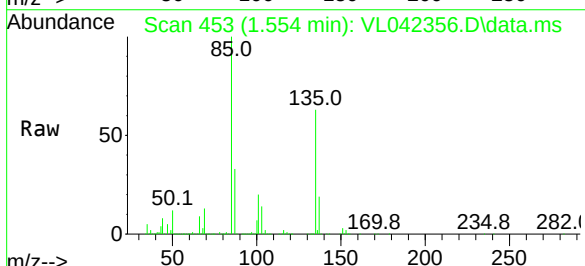
Manual Integrations
APPROVED

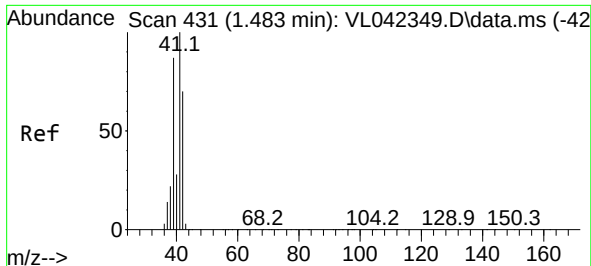
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#8
Dichlorotetrafluoroethane
Concen: 9.997 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 85 Resp: 172863
Ion Ratio Lower Upper
85 100
135 63.5 52.2 78.2





#9

Propene

Concen: 9.690 ppbv

RT: 1.482 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042356.D

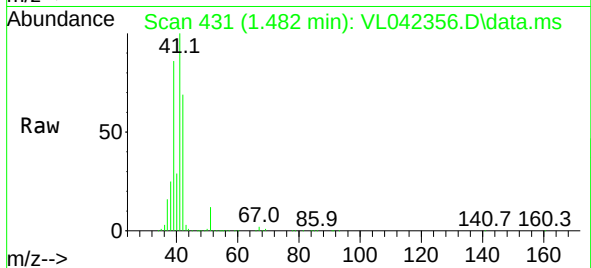
Acq: 17 Apr 2025 13:43

Instrument :

MSVOA_L

ClientSampleId :

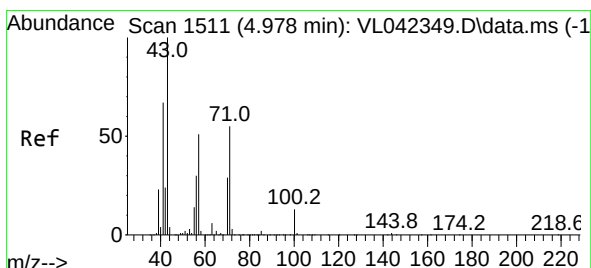
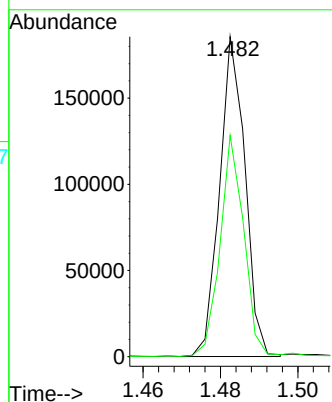
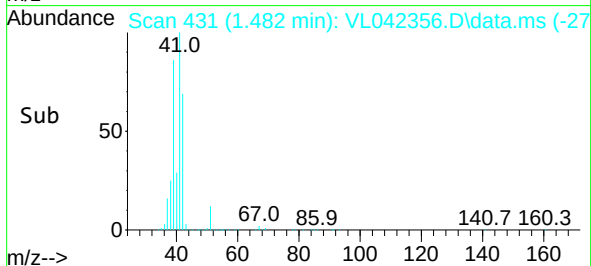
ICVVL041725



Tgt Ion: 41 Resp: 84630
 Ion Ratio Lower Upper
 41 100
 42 65.8 56.2 84.4

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#10

Heptane

Concen: 9.041 ppbv

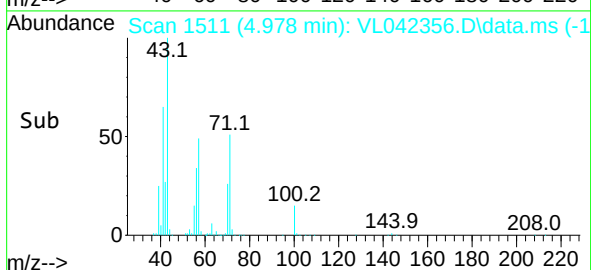
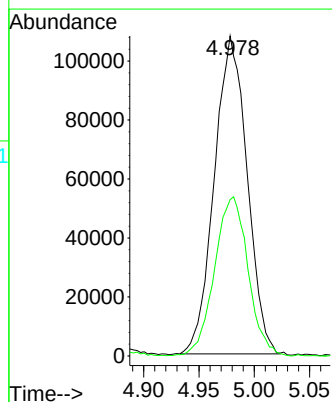
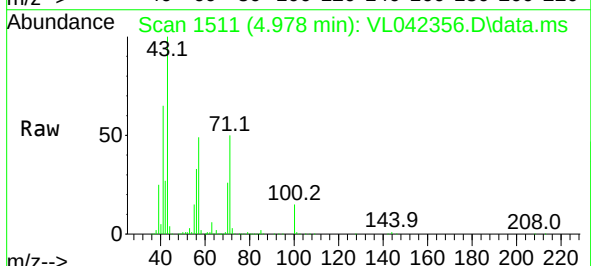
RT: 4.978 min Scan# 1511

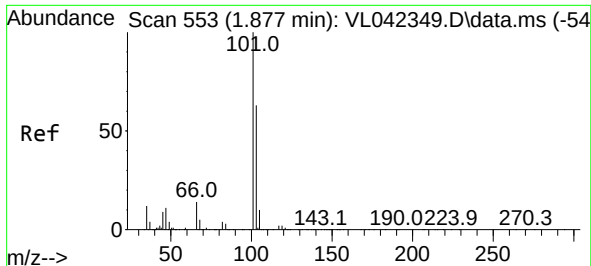
Delta R.T. -0.000 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

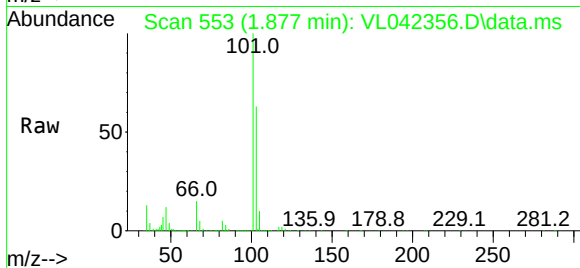
Tgt Ion: 43 Resp: 221840
 Ion Ratio Lower Upper
 43 100
 57 51.4 39.9 59.9





#11
Trichlorofluoromethane
Concen: 9.807 ppbv
RT: 1.877 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

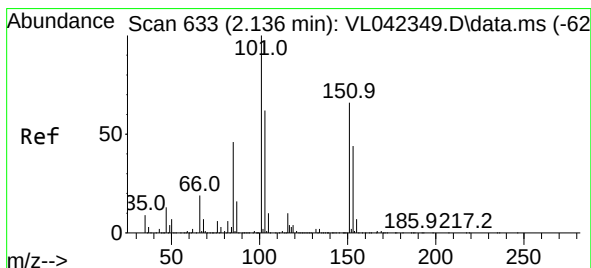
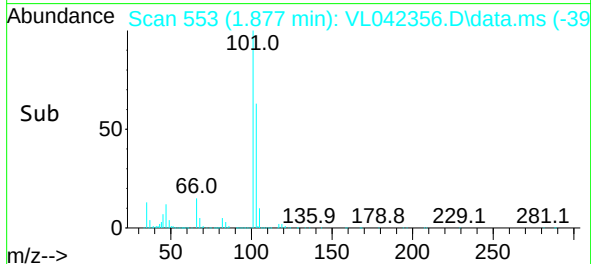
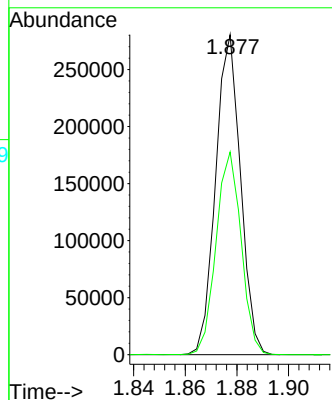
Instrument : MSVOA_L
ClientSampleId : ICVVL041725



Tgt Ion:101 Resp: 18782
Ion Ratio Lower Upper
101 100
103 63.3 50.1 75.1

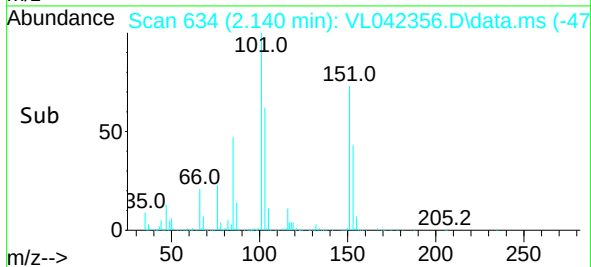
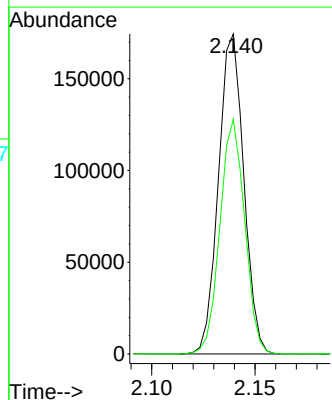
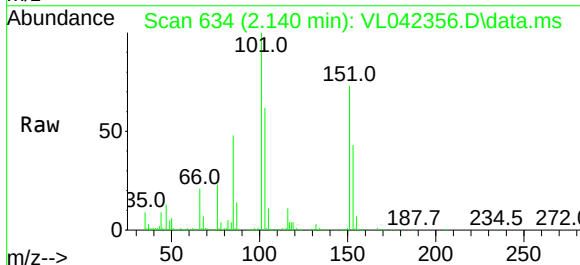
Manual Integrations
APPROVED

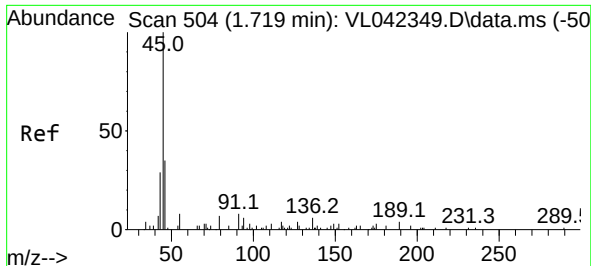
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.482 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

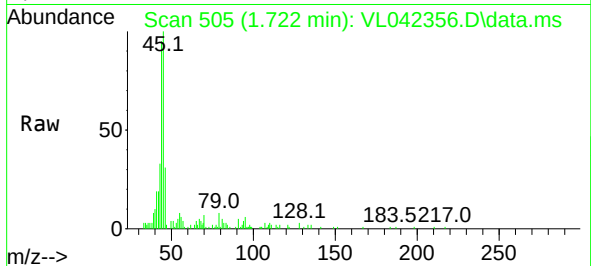
Tgt Ion:101 Resp: 148485
Ion Ratio Lower Upper
101 100
151 71.7 57.0 85.6





#13
 Ethanol
 Concen: 3.005 ppbv
 RT: 1.722 min Scan# 504
 Delta R.T. 0.003 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

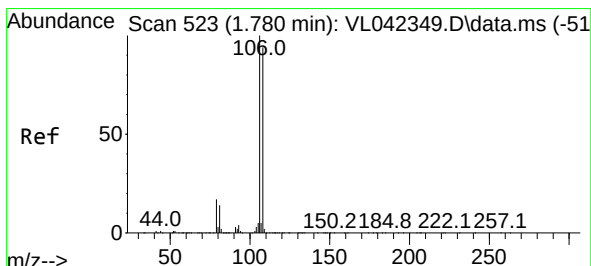
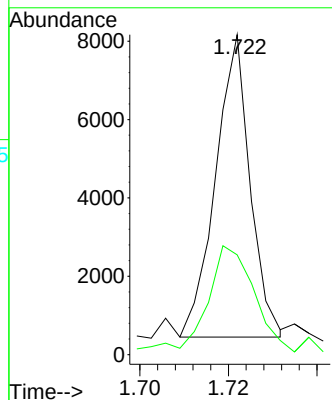
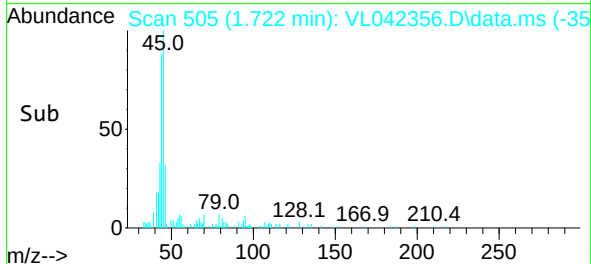
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL041725



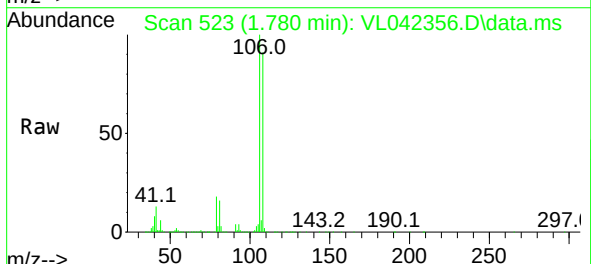
Tgt Ion: 45 Resp: 417
 Ion Ratio Lower Upper
 45 100
 46 57.0 21.9 87.7

Manual Integrations
 APPROVED

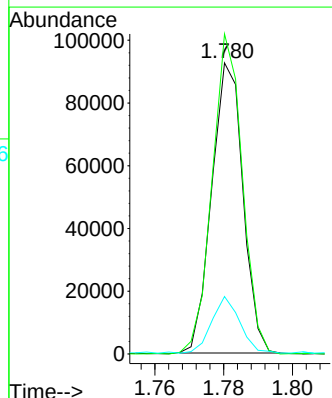
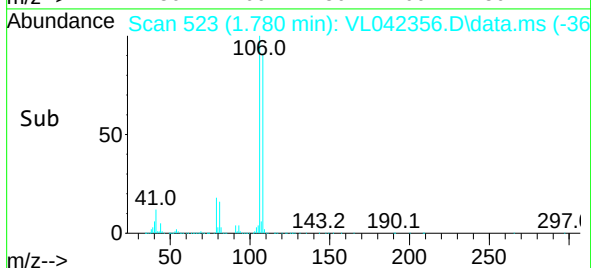
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

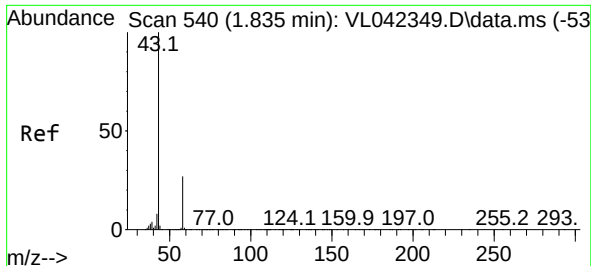


#14
 Bromoethene
 Concen: 9.880 ppbv
 RT: 1.780 min Scan# 523
 Delta R.T. -0.000 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43



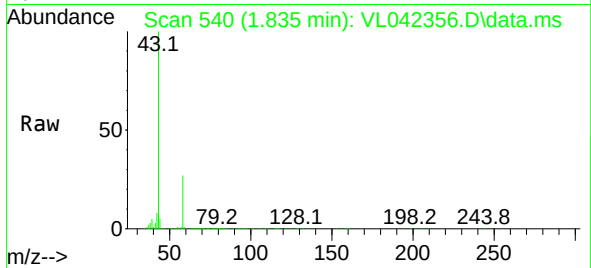
Tgt Ion:108 Resp: 58320
 Ion Ratio Lower Upper
 108 100
 106 107.1 85.9 128.9
 79 18.4 13.9 20.9





#15
Acetone
Concen: 8.505 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

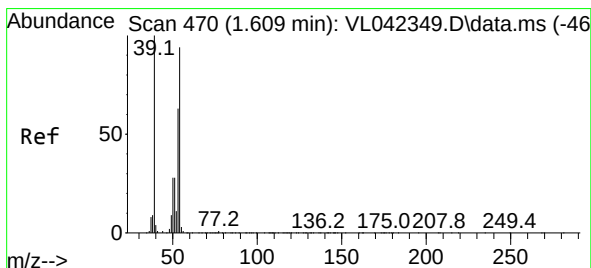
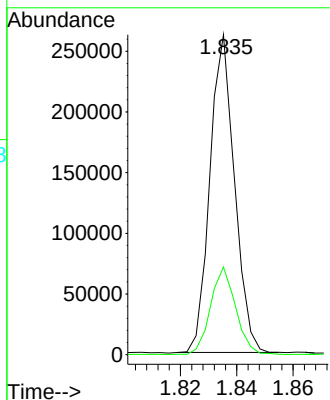
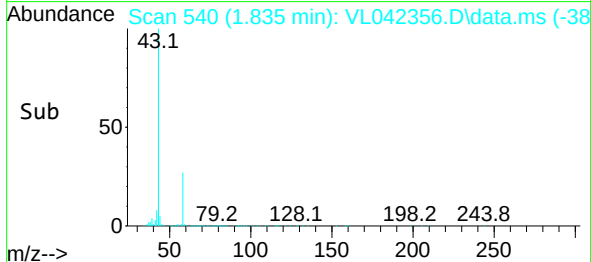
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725



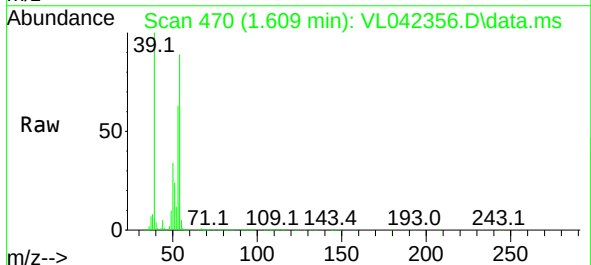
Tgt Ion: 43 Resp: 158708
Ion Ratio Lower Upper
43 100
58 28.0 22.4 33.6

Manual Integrations
APPROVED

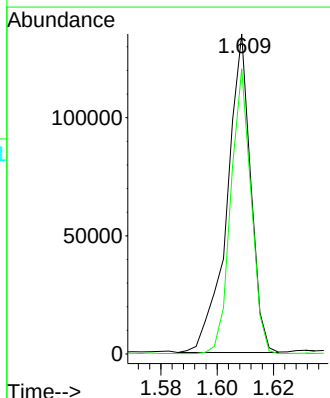
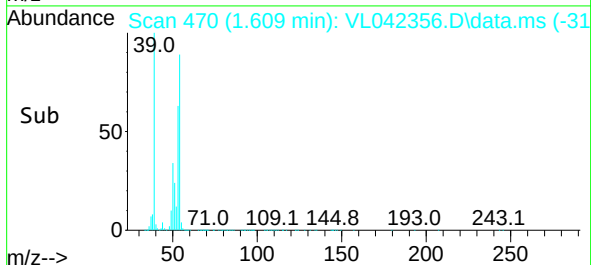
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

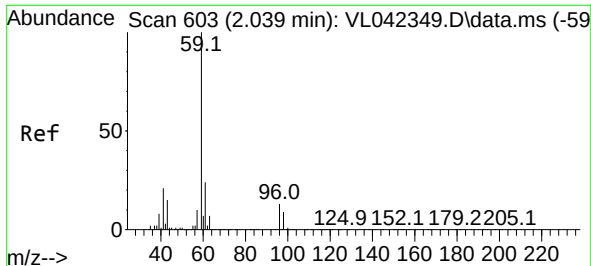


#16
1,3-Butadiene
Concen: 8.829 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



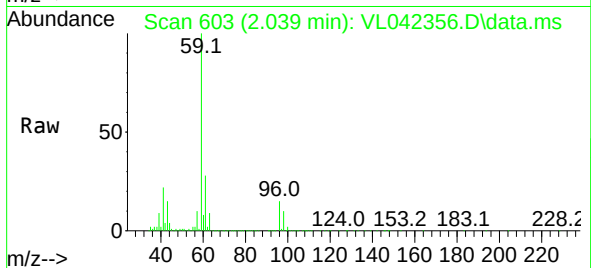
Tgt Ion: 39 Resp: 78804
Ion Ratio Lower Upper
39 100
54 77.1 64.9 97.3





#17
tert-Butyl alcohol
Concen: 9.468 ppbv
RT: 2.039 min Scan# 603
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

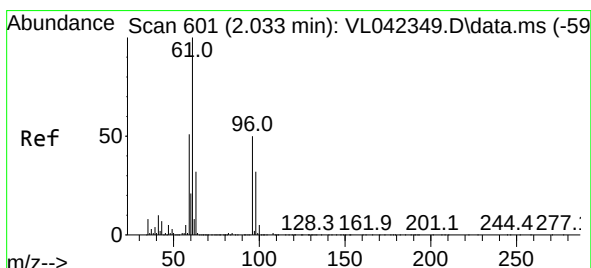
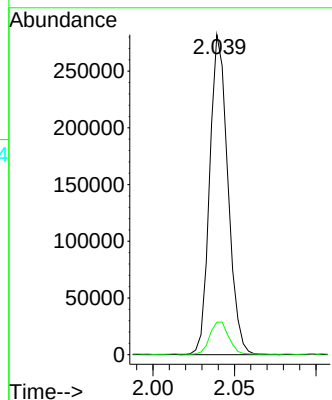
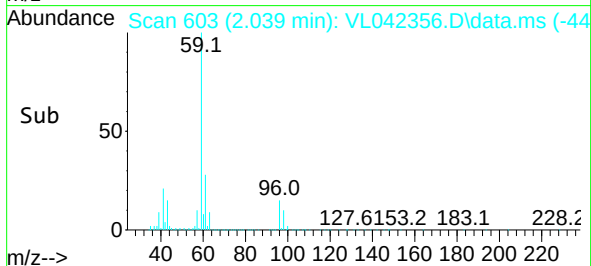
Instrument : MSVOA_L
ClientSampleId : ICVVL041725



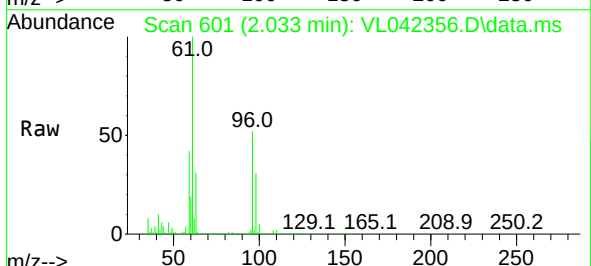
Tgt Ion: 59 Resp: 218954
Ion Ratio Lower Upper
59 100
57 10.6 8.7 13.1

Manual Integrations
APPROVED

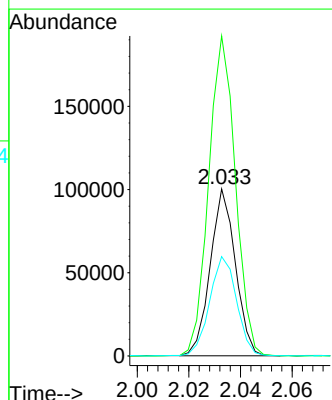
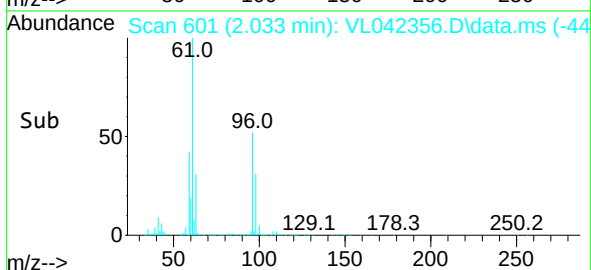
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

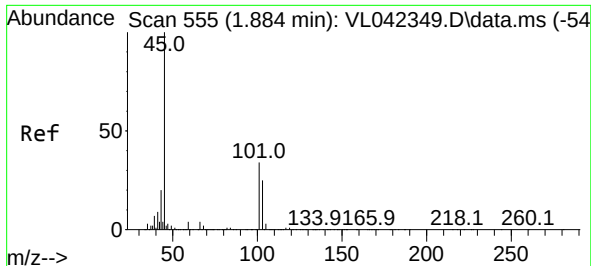


#18
1,1-Dichloroethene
Concen: 9.287 ppbv
RT: 2.033 min Scan# 601
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



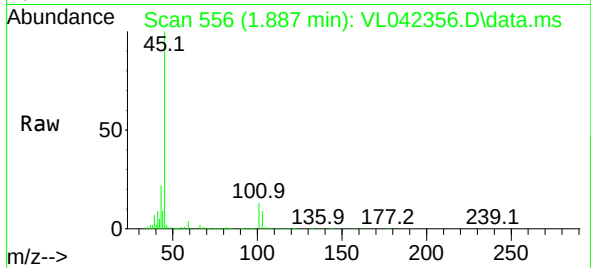
Tgt Ion: 96 Resp: 67940
Ion Ratio Lower Upper
96 100
61 191.6 160.2 240.2
98 59.4 51.0 76.4





#19
Isopropyl Alcohol
Concen: 9.296 ppbv
RT: 1.887 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

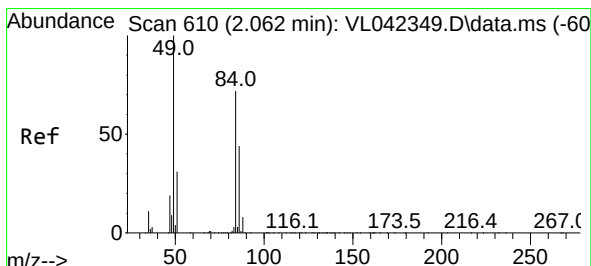
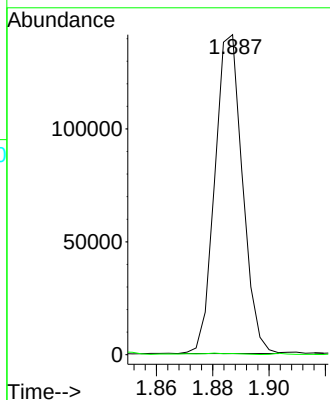
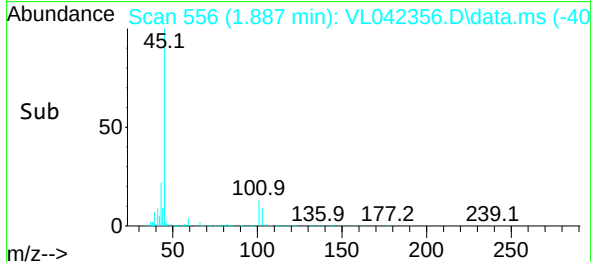
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725



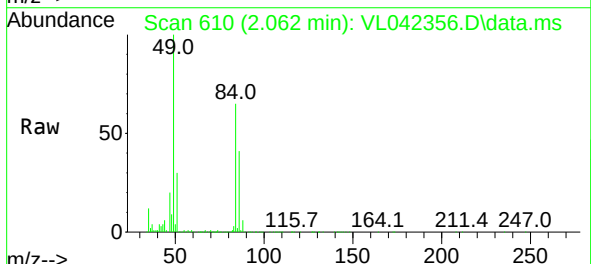
Tgt Ion: 45 Resp: 9636
Ion Ratio Lower Upper
45 100
58 46.1 34.5 51.7

Manual Integrations
APPROVED

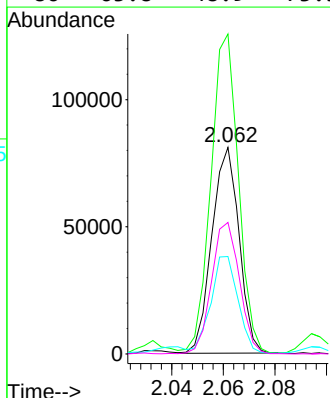
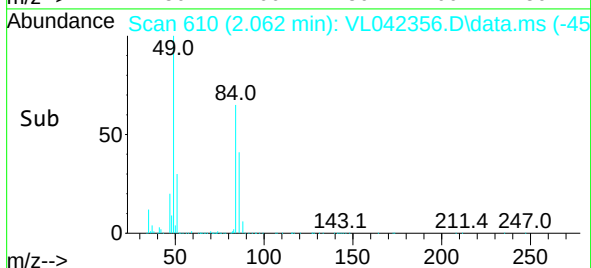
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

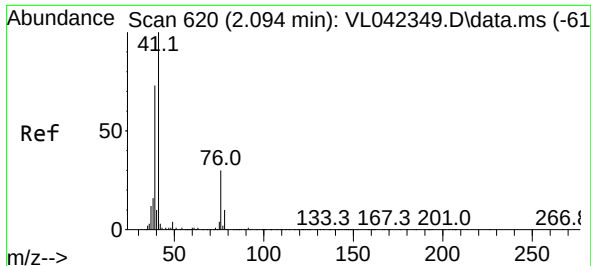


#20
Methylene Chloride
Concen: 8.101 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



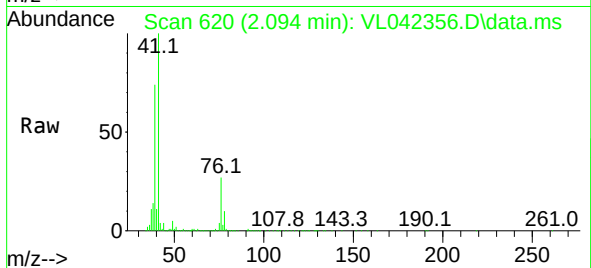
Tgt Ion: 84 Resp: 59203
Ion Ratio Lower Upper
84 100
49 155.3 111.6 167.4
51 47.0 35.1 52.7
86 63.8 48.9 73.3





#21
 Allyl Chloride
 Concen: 9.368 ppbv
 RT: 2.094 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

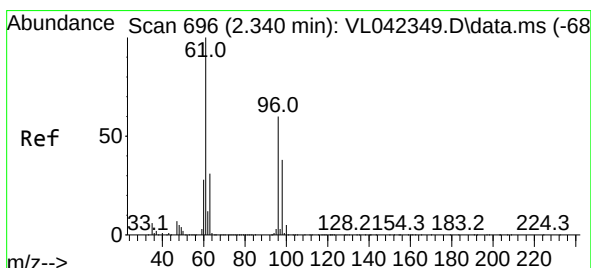
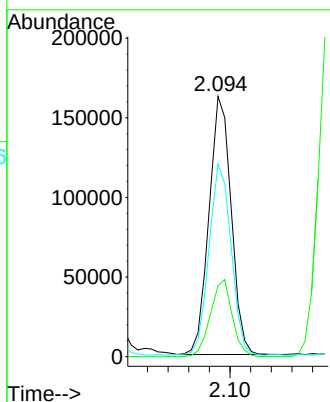
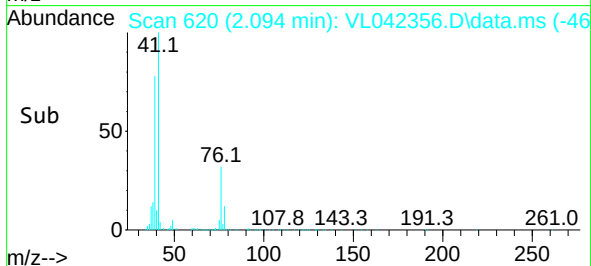
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL041725



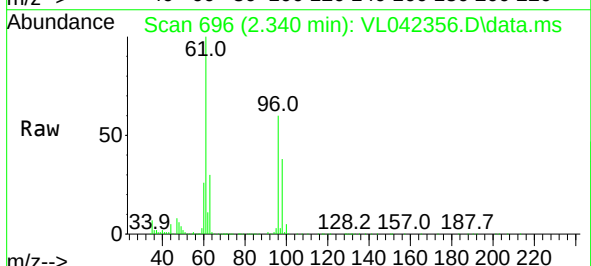
Tgt Ion: 41 Resp: 120704
 Ion Ratio Lower Upper
 41 100
 76 29.5 24.8 37.2
 39 74.5 60.6 90.8

Manual Integrations
 APPROVED

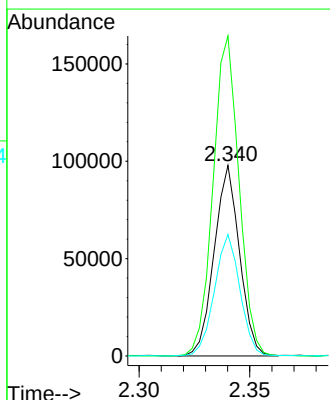
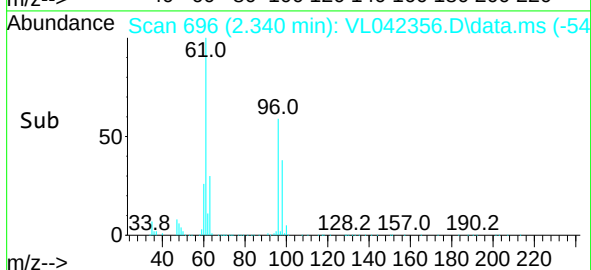
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

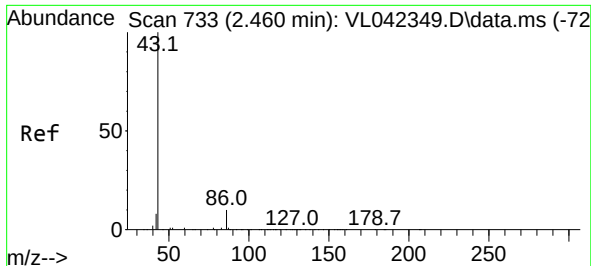


#22
 trans-1,2-Dichloroethene
 Concen: 9.373 ppbv
 RT: 2.340 min Scan# 696
 Delta R.T. -0.000 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43



Tgt Ion: 96 Resp: 78070
 Ion Ratio Lower Upper
 96 100
 61 167.7 133.7 200.5
 98 63.5 50.3 75.5





#23
 Vinyl Acetate
 Concen: 9.714 ppbv
 RT: 2.463 min Scan# 714
 Delta R.T. 0.003 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

Instrument :

MSVOA_L

ClientSampleId :

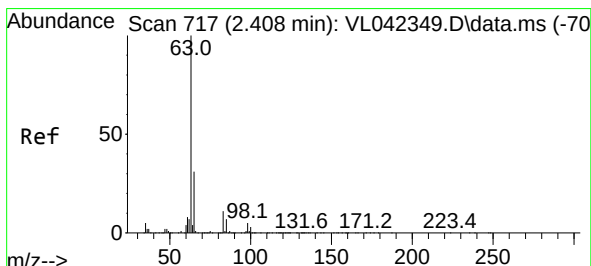
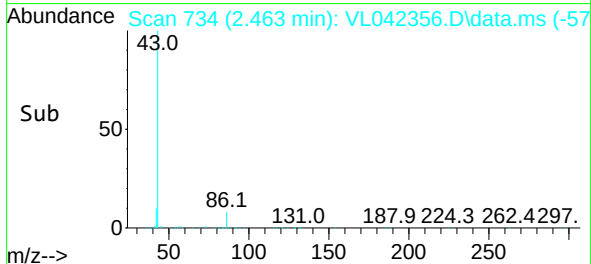
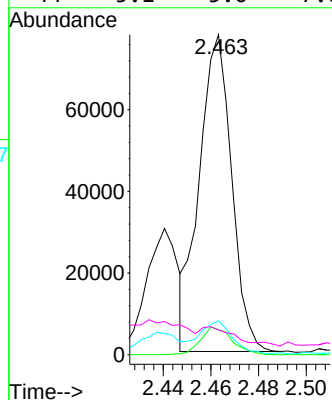
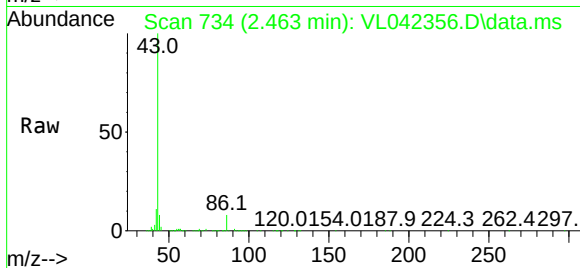
ICVVL041725

Tgt Ion: 43 Resp: 7337
 Ion Ratio Lower Upper
 43 100
 86 8.0 6.5 9.7
 42 10.0 7.8 11.8
 44 5.1 5.0 7.6

Manual Integrations

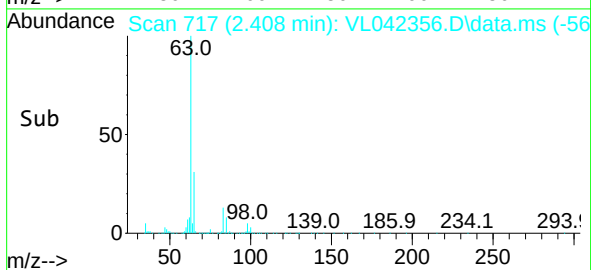
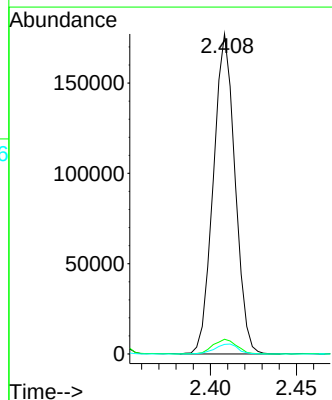
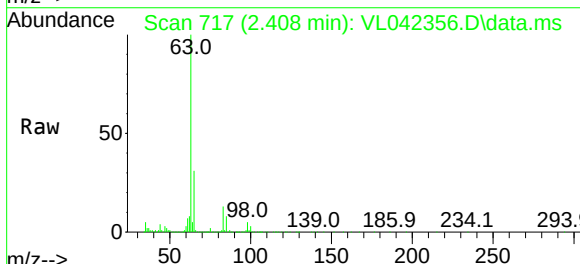
APPROVED

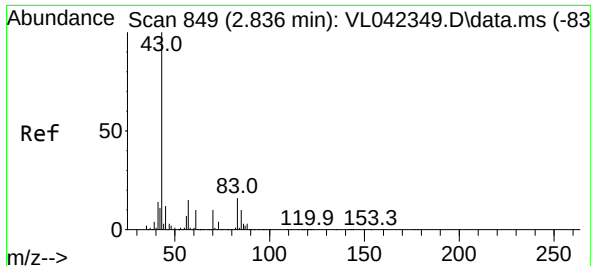
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#24
 1,1-Dichloroethane
 Concen: 9.832 ppbv
 RT: 2.408 min Scan# 717
 Delta R.T. -0.000 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

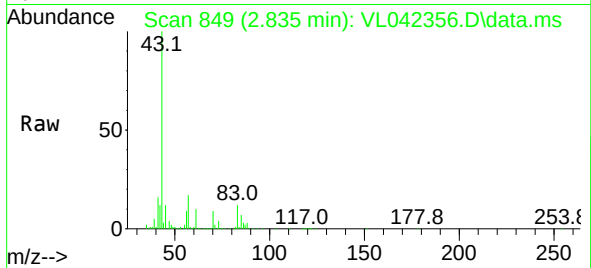
Tgt Ion: 63 Resp: 155571
 Ion Ratio Lower Upper
 63 100
 98 4.6 2.3 6.8
 100 3.0 1.6 4.8





#25
Ethyl Acetate
Concen: 9.759 ppbv
RT: 2.835 min Scan# 849
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

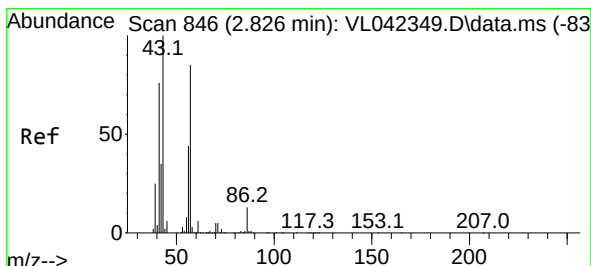
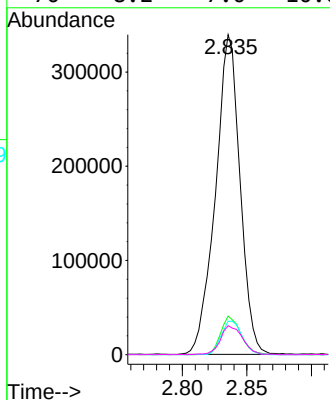
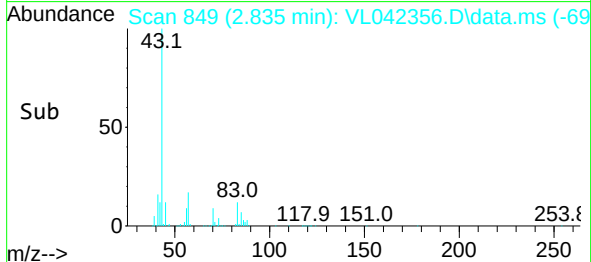
Instrument : MSVOA_L
ClientSampleId : ICVVL041725



Tgt Ion	Ratio	Lower	Upper
43	100		
45	9.9	8.3	12.5
61	9.0	7.3	10.9
70	8.2	7.0	10.6

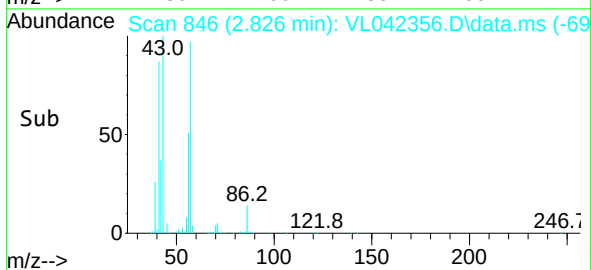
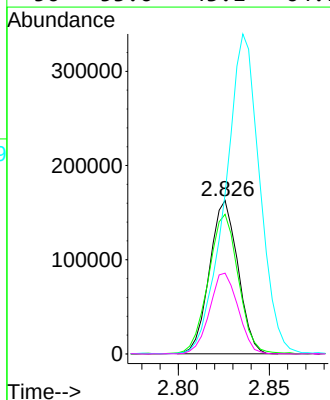
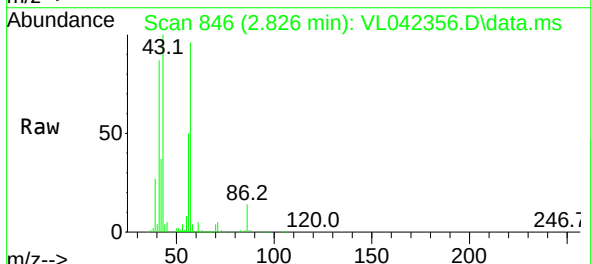
Manual Integrations
APPROVED

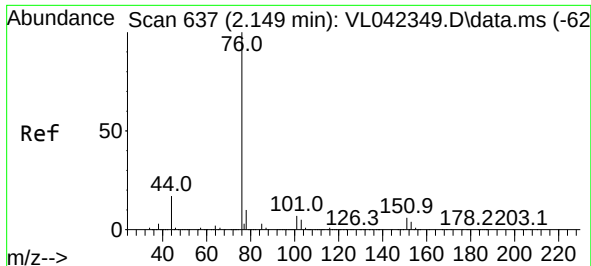
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#26
Hexane
Concen: 9.439 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

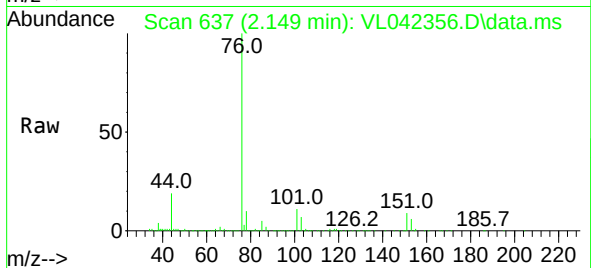
Tgt Ion	Ratio	Lower	Upper
57	100		
41	96.6	77.9	116.9
43	256.0	208.4	312.6
56	53.6	43.1	64.7





#27
Carbon Disulfide
Concen: 9.587 ppbv
RT: 2.149 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

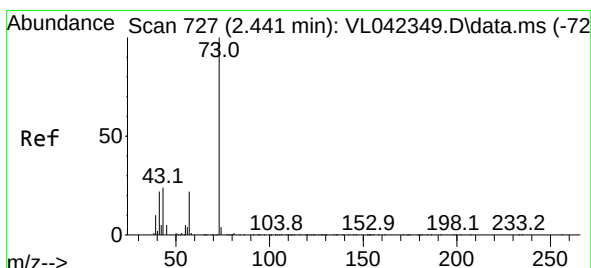
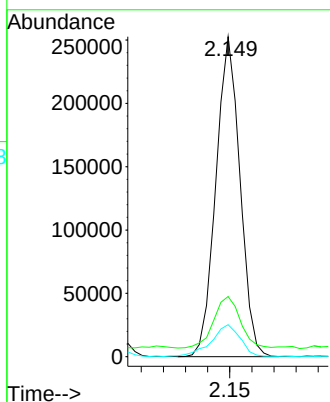
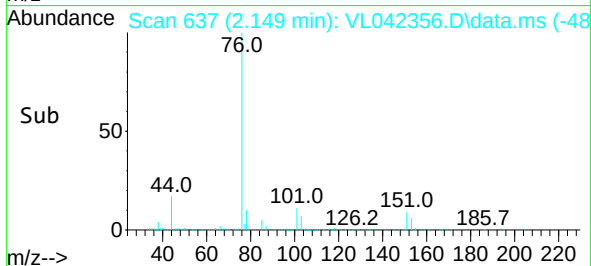
Instrument : MSVOA_L
ClientSampleId : ICVVL041725



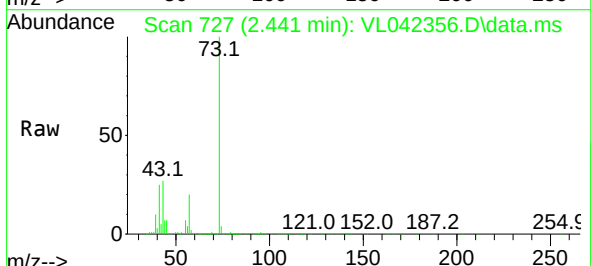
Tgt Ion: 76 Resp: 191117
Ion Ratio Lower Upper
76 100
44 19.3 15.5 23.3
78 11.9 9.3 13.9

Manual Integrations
APPROVED

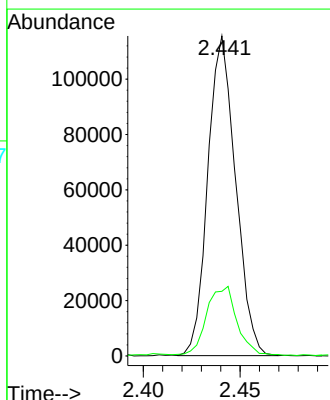
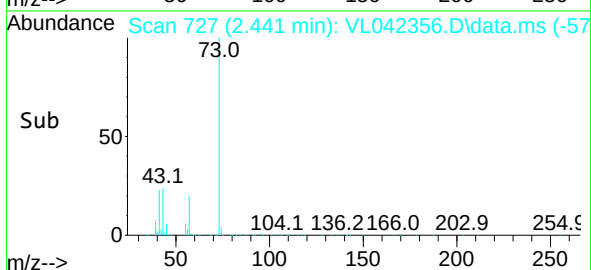
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

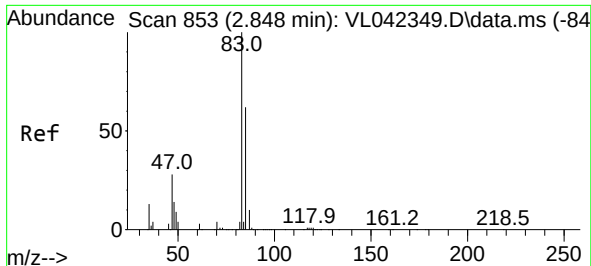


#28
Methyl tert-Butyl Ether
Concen: 9.442 ppbv
RT: 2.441 min Scan# 727
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



Tgt Ion: 73 Resp: 115190
Ion Ratio Lower Upper
73 100
57 23.4 21.3 31.9





#29

Chloroform

Concen: 9.912 ppbv

RT: 2.848 min Scan# 853

Delta R.T. -0.000 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

Instrument :

MSVOA_L

ClientSampleId :

ICVVL041725

Tgt Ion: 83 Resp: 26085

Ion Ratio Lower Upper

83 100

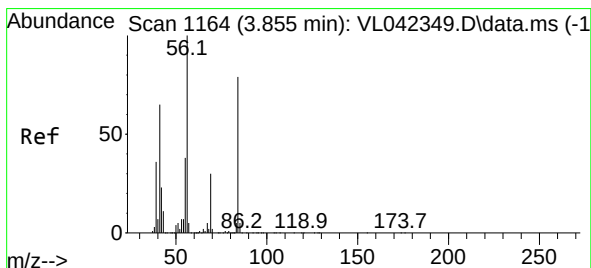
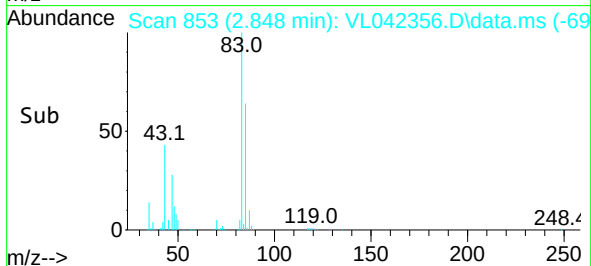
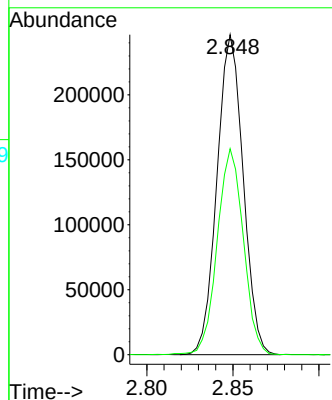
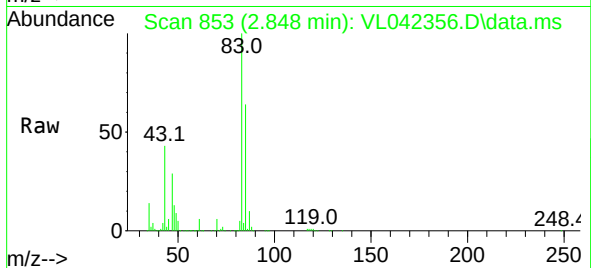
85 64.3 50.0 75.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#30

Cyclohexane

Concen: 9.849 ppbv

RT: 3.855 min Scan# 1164

Delta R.T. -0.000 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

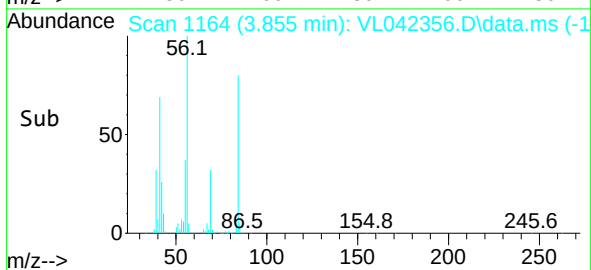
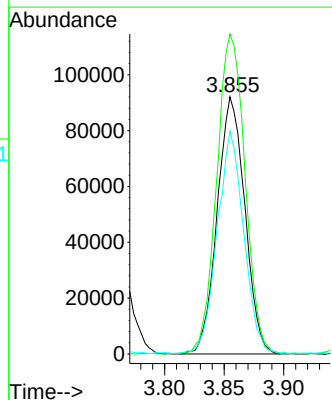
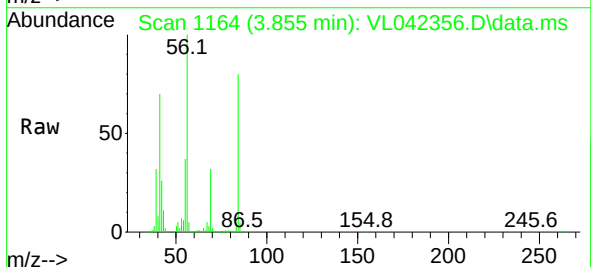
Tgt Ion: 84 Resp: 148246

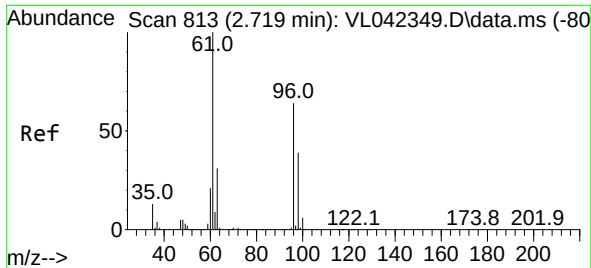
Ion Ratio Lower Upper

84 100

56 127.7 101.0 151.4

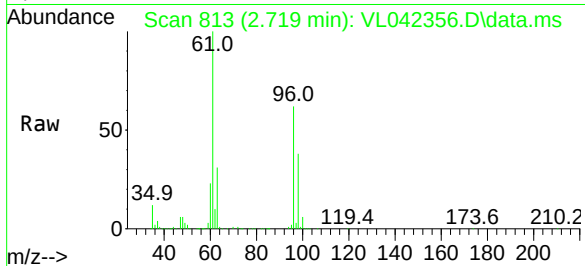
41 83.2 67.4 101.0





#31
 cis-1,2-Dichloroethene
 Concen: 10.167 ppbv
 RT: 2.719 min Scan# 81
 Delta R.T. -0.000 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

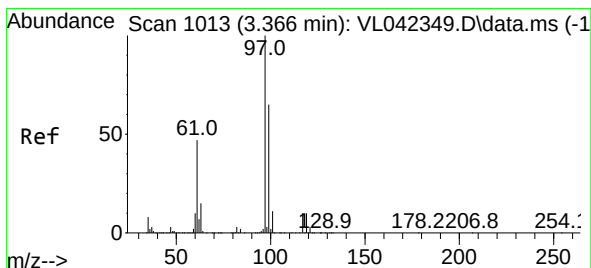
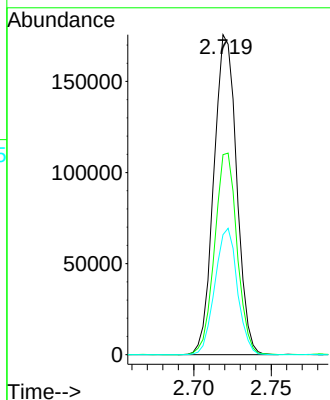
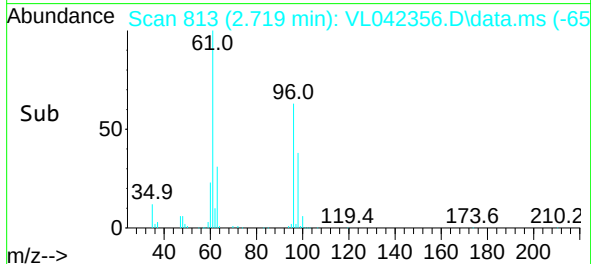
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL041725



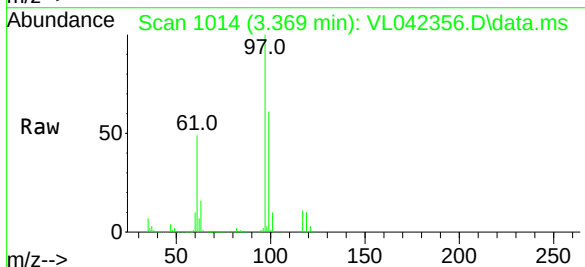
Tgt Ion: 61 Resp: 17999
 Ion Ratio Lower Upper
 61 100
 96 62.5 50.8 76.2
 98 37.5 30.9 46.3

Manual Integrations
 APPROVED

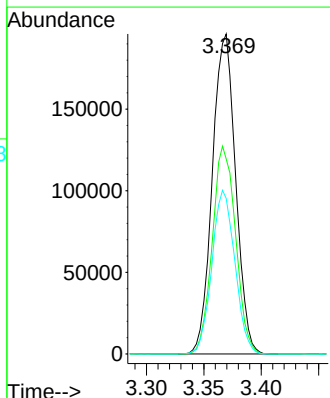
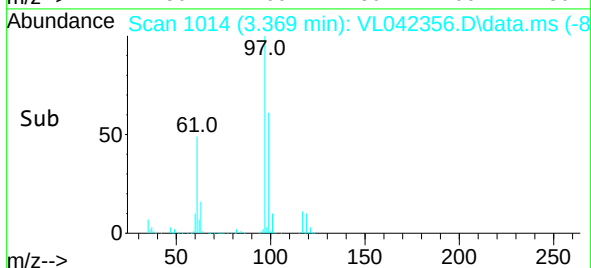
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

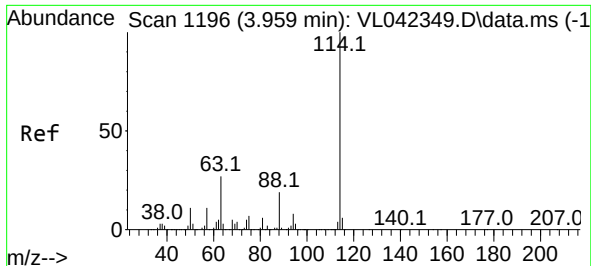


#32
 1,1,1-Trichloroethane
 Concen: 9.336 ppbv
 RT: 3.369 min Scan# 1014
 Delta R.T. 0.003 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43



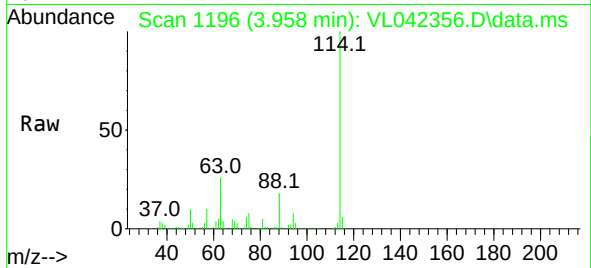
Tgt Ion: 97 Resp: 276599
 Ion Ratio Lower Upper
 97 100
 99 65.0 51.0 76.4
 61 50.7 38.8 58.2





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.958 min Scan# 1196
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

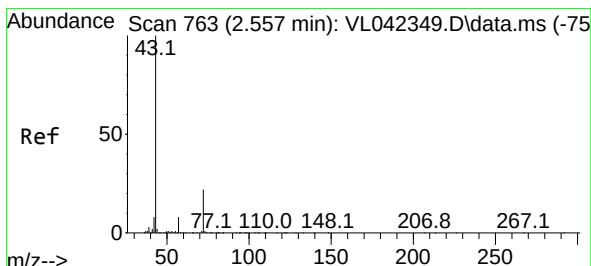
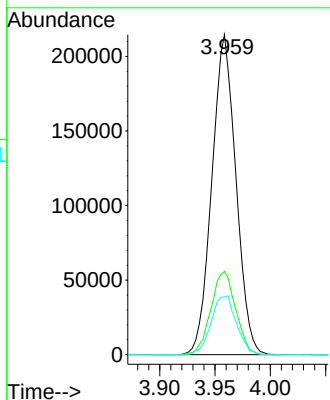
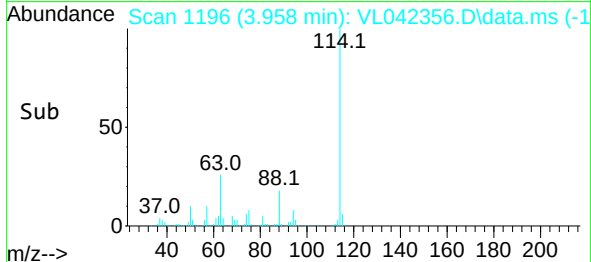
Instrument : MSVOA_L
ClientSampleId : ICVVL041725



Tgt Ion:114 Resp: 324528
Ion Ratio Lower Upper
114 100
63 26.8 21.8 32.6
88 19.2 15.5 23.3

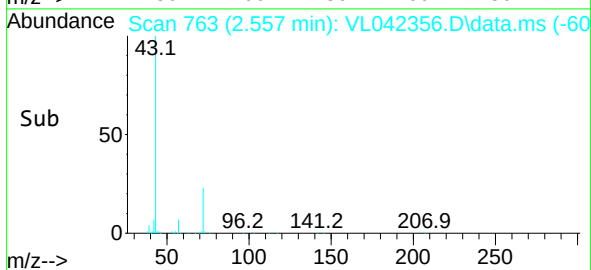
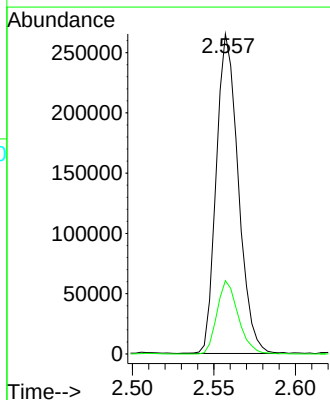
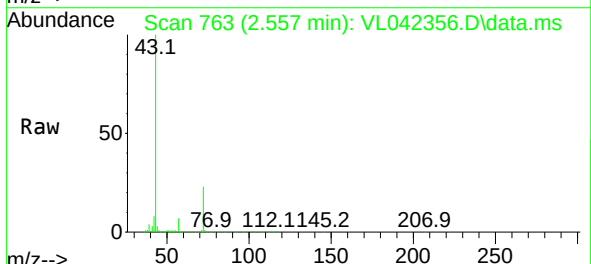
Manual Integrations
APPROVED

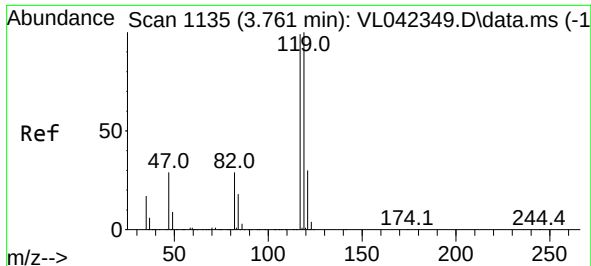
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#34
2-Butanone
Concen: 9.700 ppbv
RT: 2.557 min Scan# 763
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

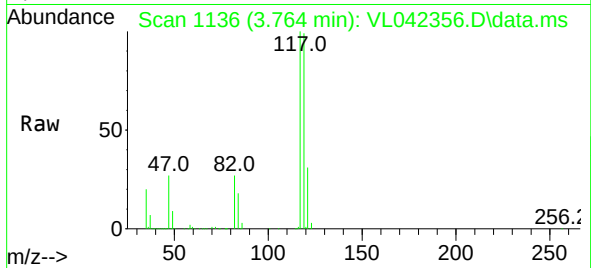
Tgt Ion: 43 Resp: 248969
Ion Ratio Lower Upper
43 100
72 22.1 18.2 27.2





#35
Carbon Tetrachloride
Concen: 9.256 ppbv
RT: 3.764 min Scan# 1135
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

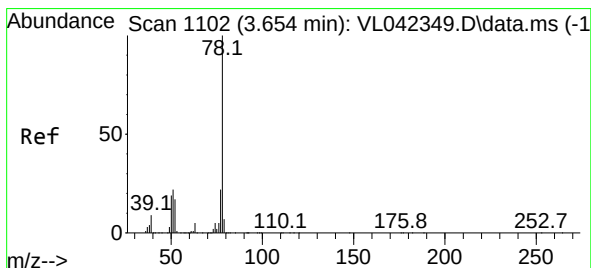
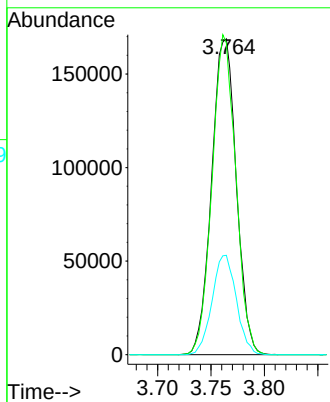
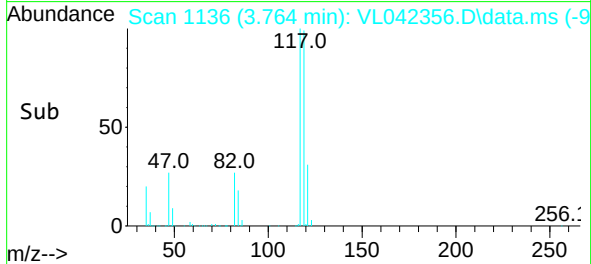
Instrument : MSVOA_L
ClientSampleId : ICVVL041725



Tgt Ion:117 Resp: 271862
Ion Ratio Lower Upper
117 100
119 98.7 80.5 120.7
121 31.5 24.2 36.2

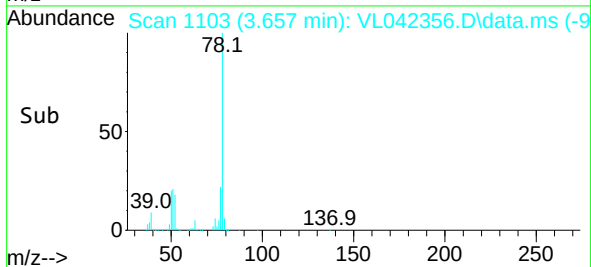
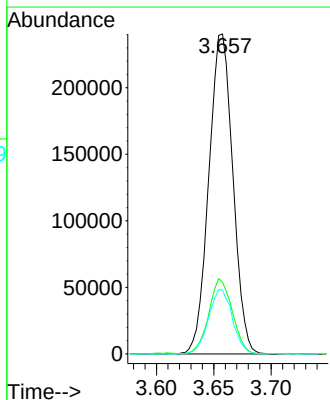
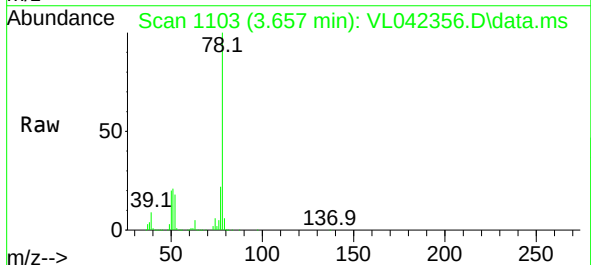
Manual Integrations
APPROVED

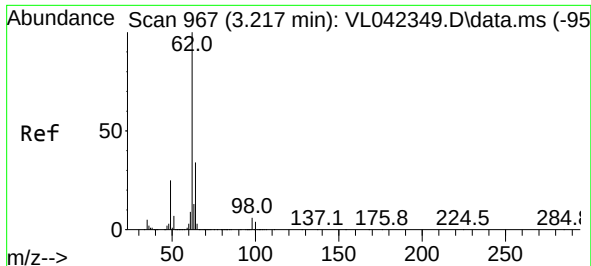
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#36
Benzene
Concen: 10.014 ppbv
RT: 3.657 min Scan# 1103
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

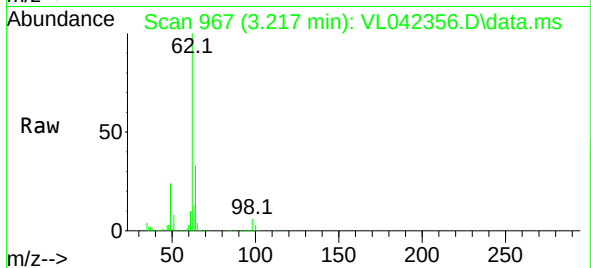
Tgt Ion: 78 Resp: 350545
Ion Ratio Lower Upper
78 100
77 22.3 17.4 26.0
50 19.9 15.5 23.3





#37
1,2-Dichloroethane
Concen: 10.081 ppbv
RT: 3.217 min Scan# 967
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

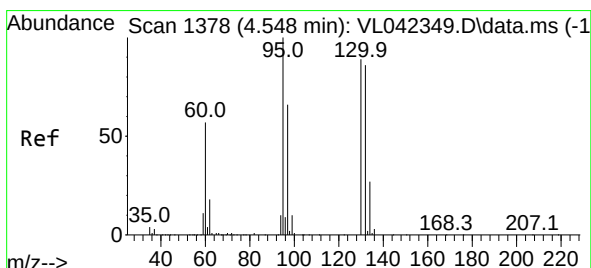
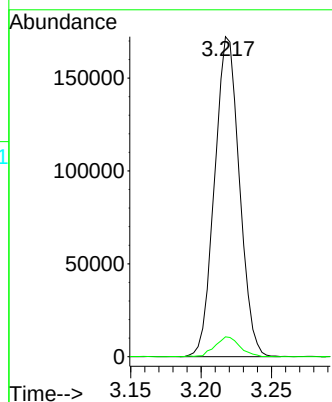
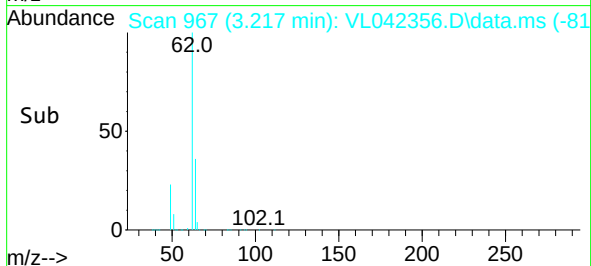
Instrument : MSVOA_L
ClientSampleId : ICVVL041725



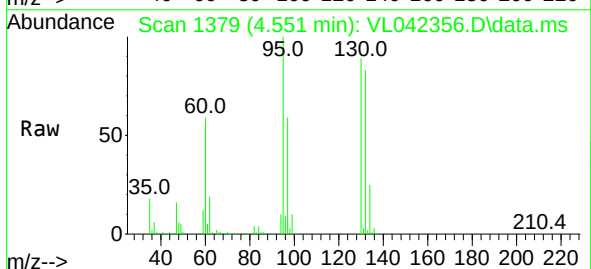
Tgt Ion: 62 Resp: 211790
Ion Ratio Lower Upper
62 100
98 6.2 5.1 7.7

Manual Integrations
APPROVED

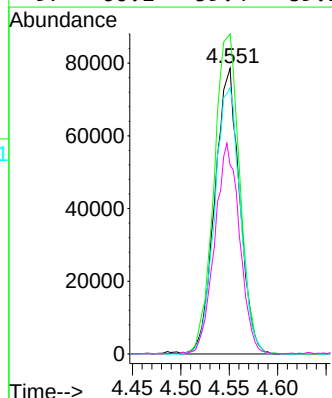
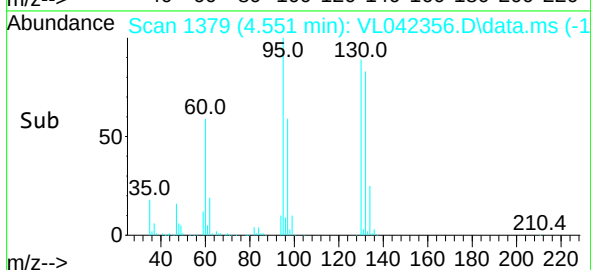
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

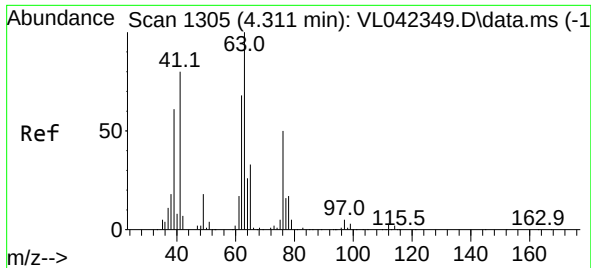


#38
Trichloroethene
Concen: 9.143 ppbv
RT: 4.551 min Scan# 1379
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



Tgt Ion:130 Resp: 139872
Ion Ratio Lower Upper
130 100
95 112.0 89.8 134.6
132 93.2 77.7 116.5
97 66.1 59.4 89.2





#39

1,2-Dichloropropane

Concen: 9.908 ppbv

RT: 4.315 min Scan# 1305

Delta R.T. 0.003 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

Instrument :

MSVOA_L

ClientSampleId :

ICVVL041725

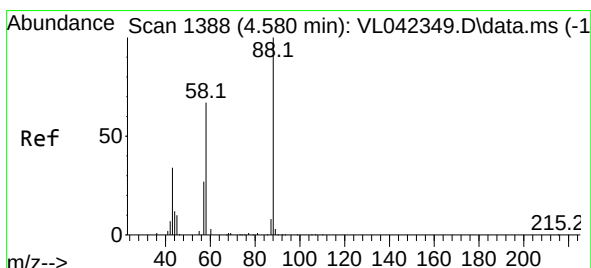
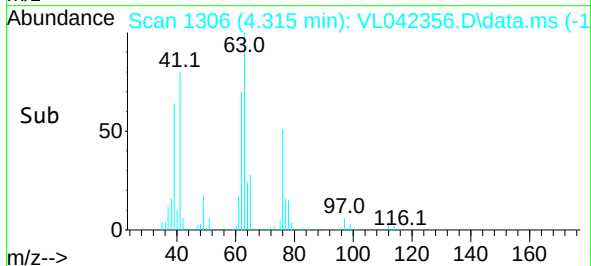
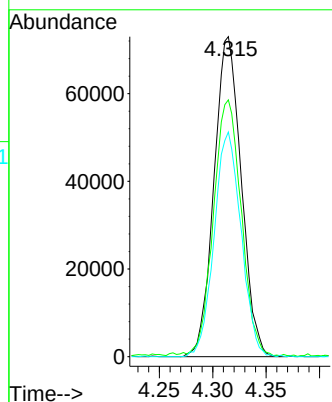
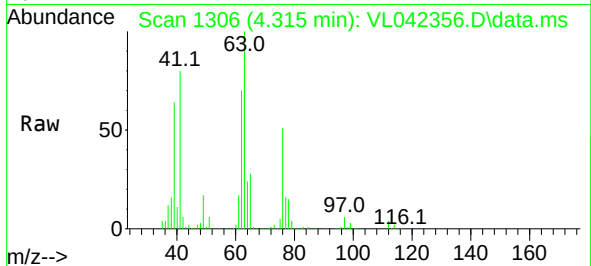
Tgt Ion: 63 Resp: 129239

Ion	Ratio	Lower	Upper
63	100		
41	79.9	64.2	96.2
62	70.2	54.3	81.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#40

1,4-Dioxane

Concen: 8.591 ppbv

RT: 4.583 min Scan# 1389

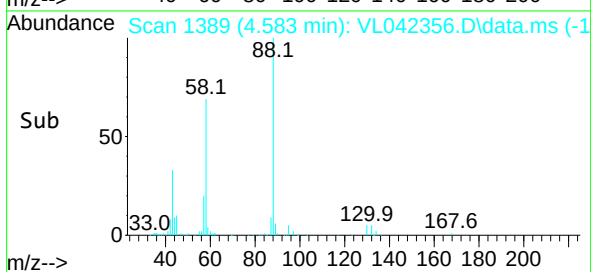
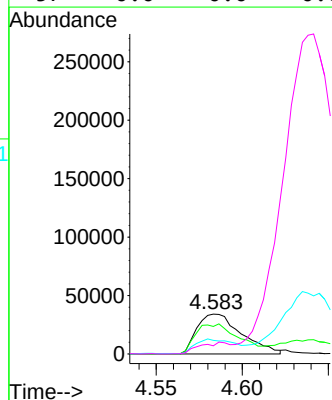
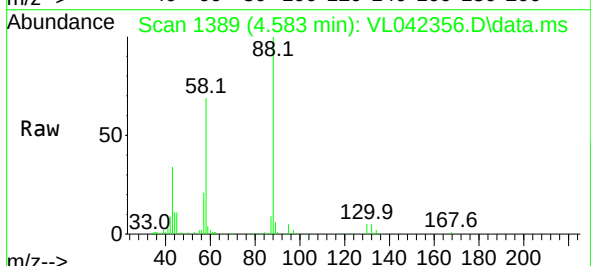
Delta R.T. 0.003 min

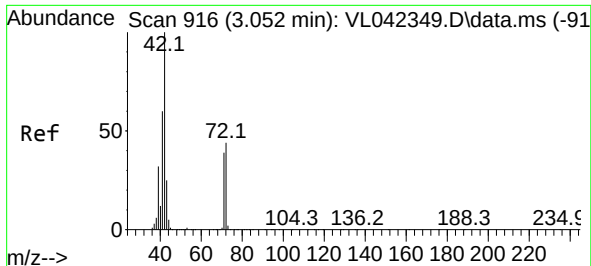
Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

Tgt Ion: 88 Resp: 61587

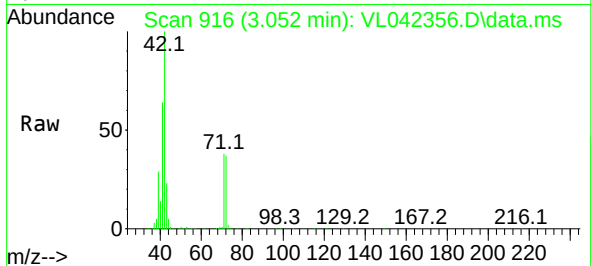
Ion	Ratio	Lower	Upper
88	100		
58	76.1	61.4	92.0
43	35.9	23.2	34.8
57	0.0	0.0	0.0





#41
Tetrahydrofuran
Concen: 9.479 ppbv
RT: 3.052 min Scan# 916
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

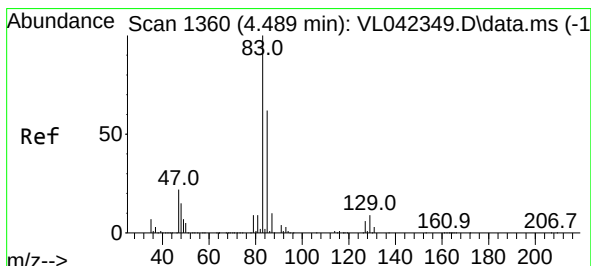
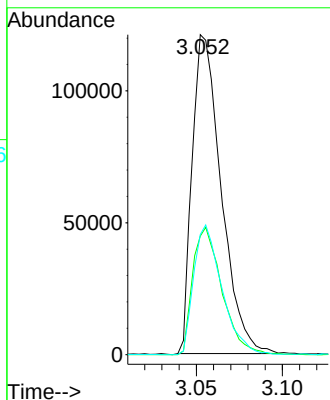
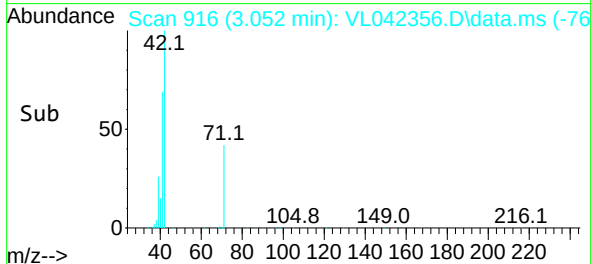
Instrument : MSVOA_L
ClientSampleId : ICVVL041725



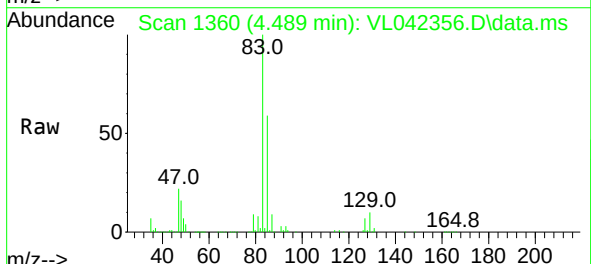
Tgt Ion: 42 Resp: 14186
Ion Ratio Lower Upper
42 100
72 40.2 32.3 48.5
71 39.8 31.4 47.2

Manual Integrations
APPROVED

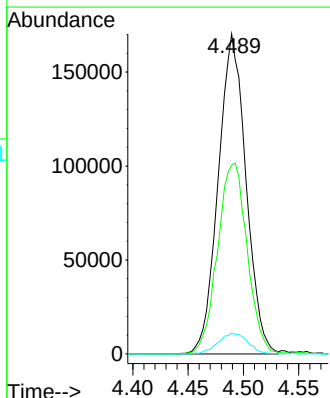
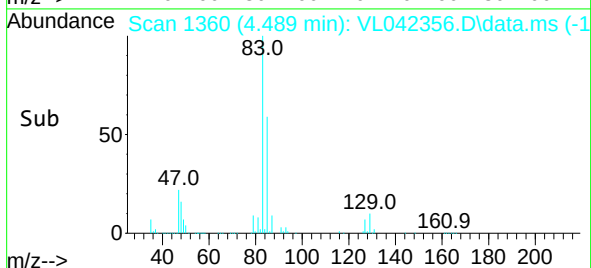
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

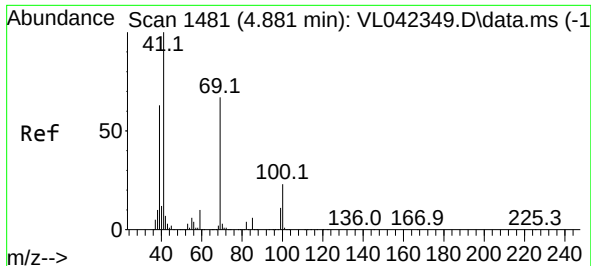


#42
Bromodichloromethane
Concen: 10.156 ppbv
RT: 4.489 min Scan# 1360
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



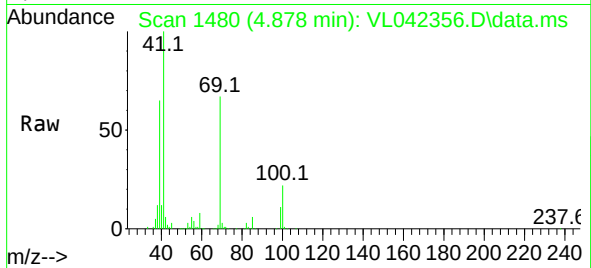
Tgt Ion: 83 Resp: 296946
Ion Ratio Lower Upper
83 100
85 59.0 49.7 74.5
127 6.6 5.1 7.7





#43
Methyl Methacrylate
Concen: 9.458 ppbv
RT: 4.878 min Scan# 1481
Delta R.T. -0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

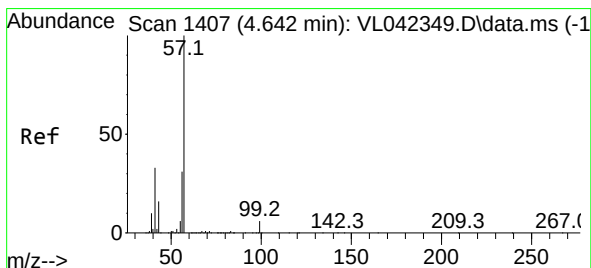
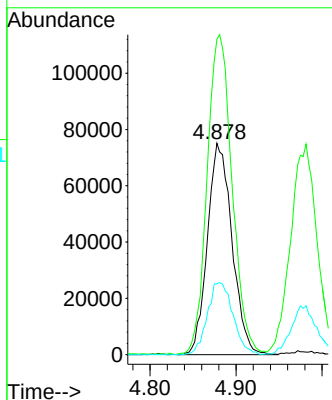
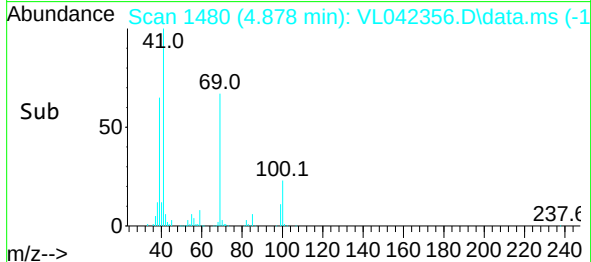
Instrument : MSVOA_L
ClientSampleId : ICVVL041725



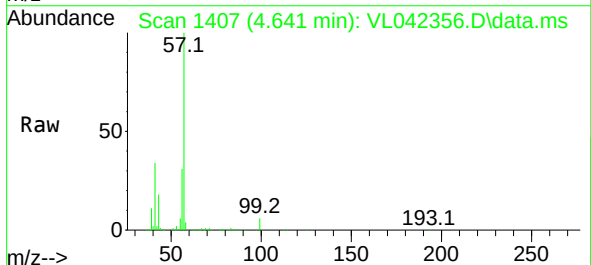
Tgt Ion: 69 Resp: 149209
Ion Ratio Lower Upper
69 100
41 154.1 118.6 177.8
100 35.5 28.2 42.2

Manual Integrations
APPROVED

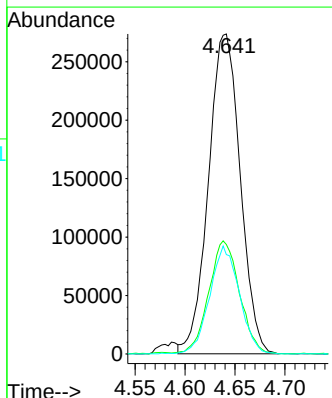
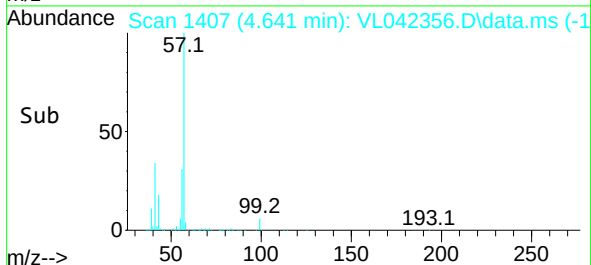
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

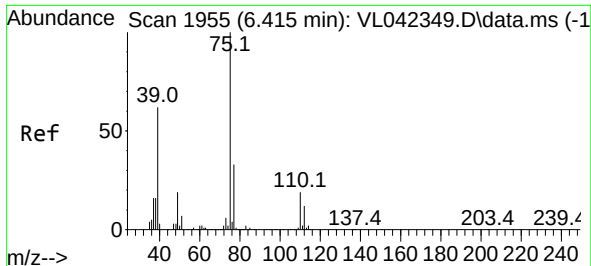


#44
2,2,4-Trimethylpentane
Concen: 10.030 ppbv
RT: 4.641 min Scan# 1407
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



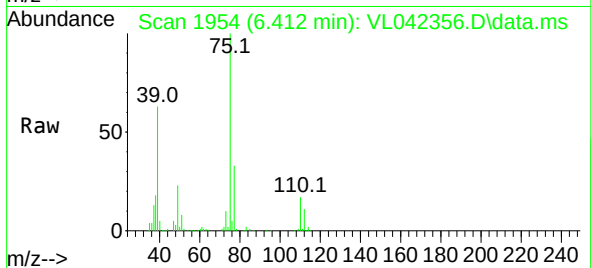
Tgt Ion: 57 Resp: 606376
Ion Ratio Lower Upper
57 100
41 34.3 27.2 40.8
56 31.6 25.7 38.5





#45
t-1,3-Dichloropropene
Concen: 9.975 ppbv
RT: 6.412 min Scan# 1954
Delta R.T. -0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

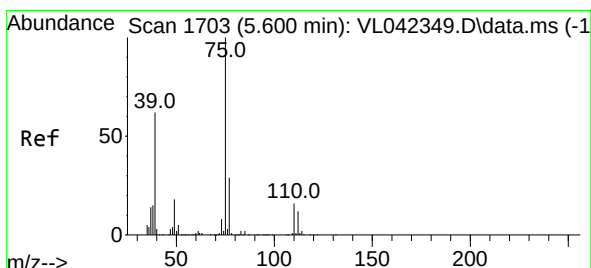
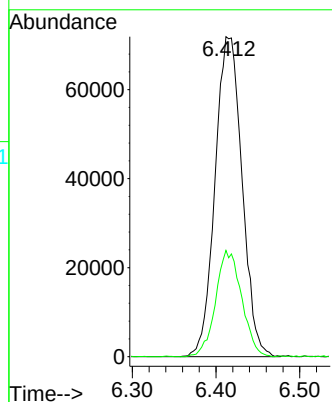
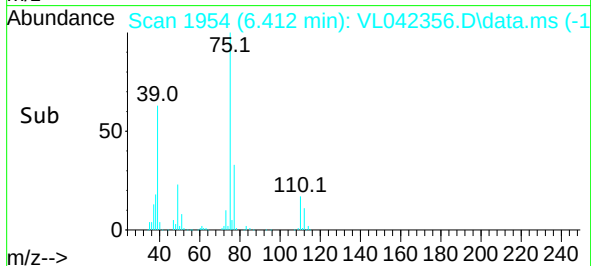
Instrument : MSVOA_L
ClientSampleId : ICVVL041725



Tgt Ion: 75 Resp: 160750
Ion Ratio Lower Upper
75 100
77 33.2 27.0 40.6

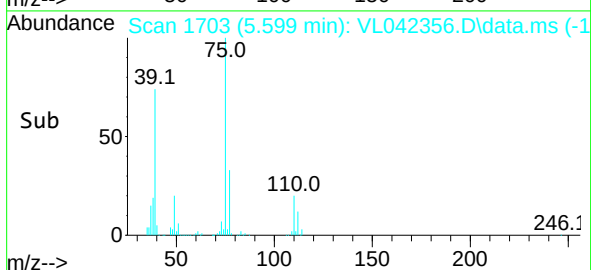
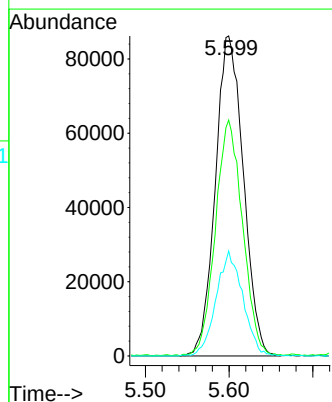
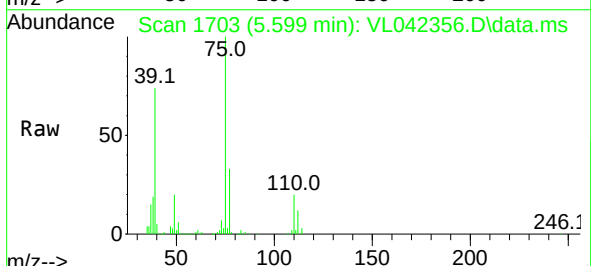
Manual Integrations
APPROVED

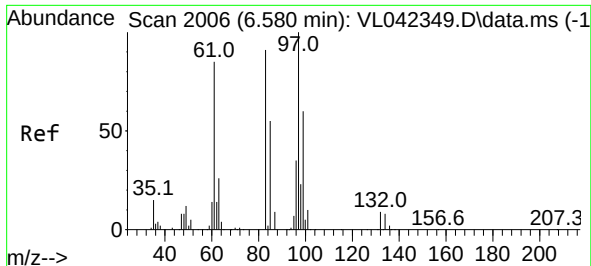
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#46
cis-1,3-Dichloropropene
Concen: 10.148 ppbv
RT: 5.599 min Scan# 1703
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 75 Resp: 200144
Ion Ratio Lower Upper
75 100
39 73.7 50.0 75.0
77 32.7 23.0 34.6





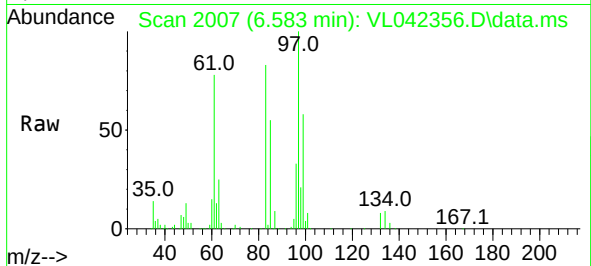
#47
1,1,2-Trichloroethane
Concen: 10.202 ppbv
RT: 6.583 min Scan# 2006
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Instrument :

MSVOA_L

ClientSampleId :

ICVVL041725

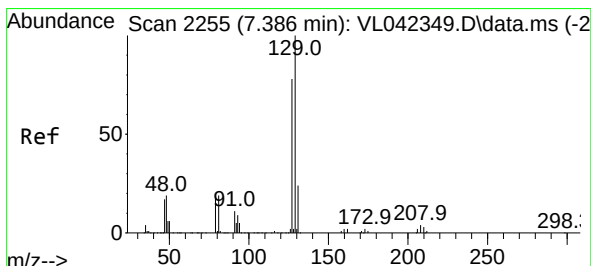
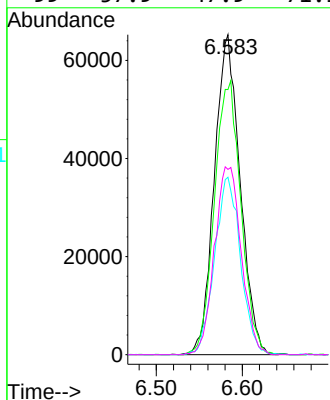
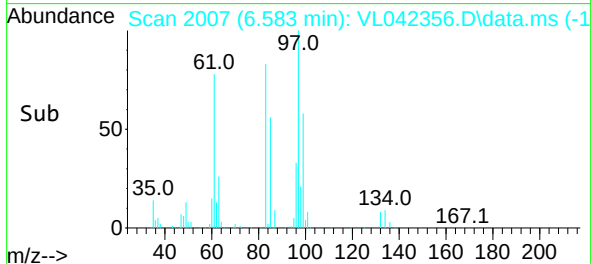


Tgt Ion: 97 Resp: 135574
Ion Ratio Lower Upper
97 100
83 82.8 72.8 109.2
85 55.5 44.2 66.4
99 57.9 47.9 71.9

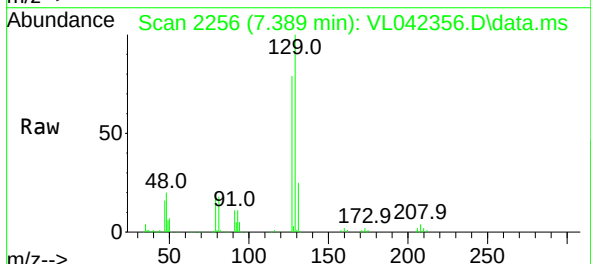
Manual Integrations

APPROVED

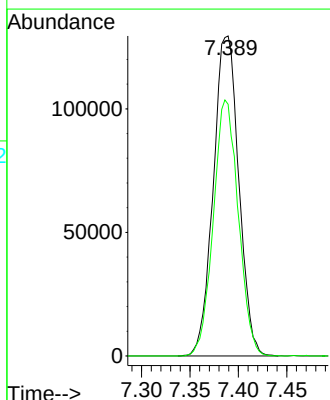
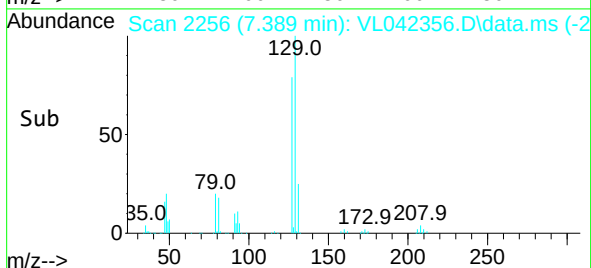
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

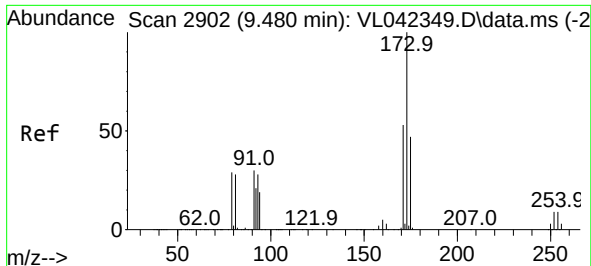


#48
Dibromochloromethane
Concen: 10.103 ppbv
RT: 7.389 min Scan# 2256
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



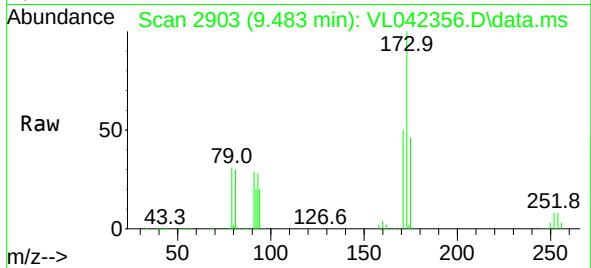
Tgt Ion:129 Resp: 237206
Ion Ratio Lower Upper
129 100
127 78.4 39.1 117.3





#49
Bromoform
Concen: 10.016 ppbv
RT: 9.483 min Scan# 2902
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

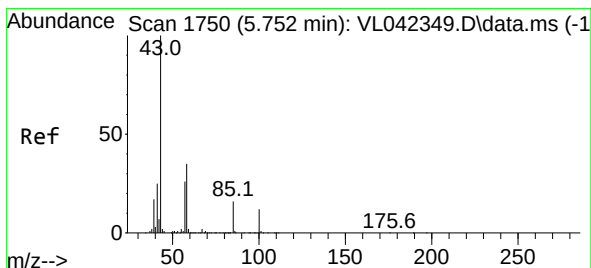
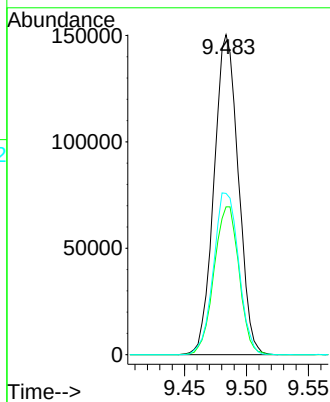
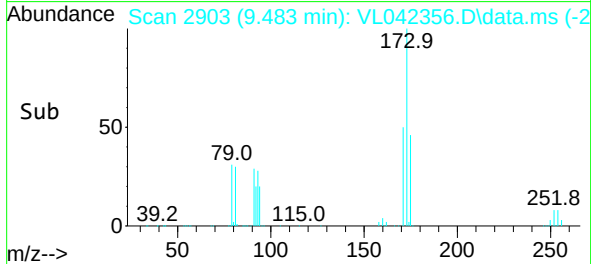
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725



Tgt Ion:173 Resp: 205630
Ion Ratio Lower Upper
173 100
175 47.6 38.2 57.2
171 52.5 40.9 61.3

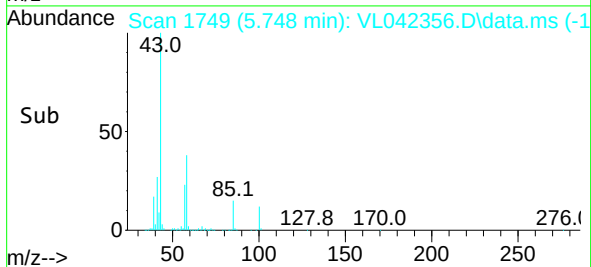
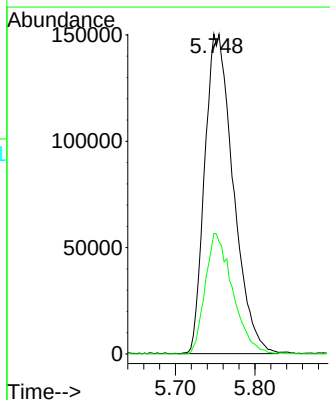
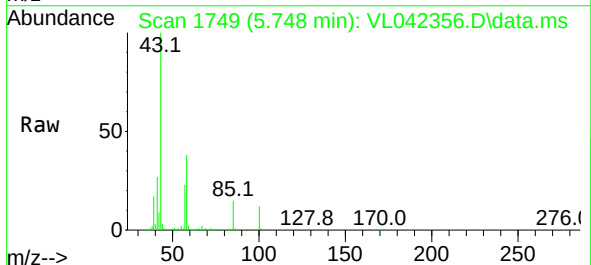
Manual Integrations
APPROVED

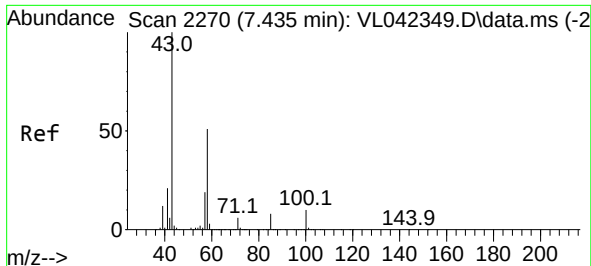
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#50
4-Methyl-2-Pentanone
Concen: 8.819 ppbv
RT: 5.748 min Scan# 1749
Delta R.T. -0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

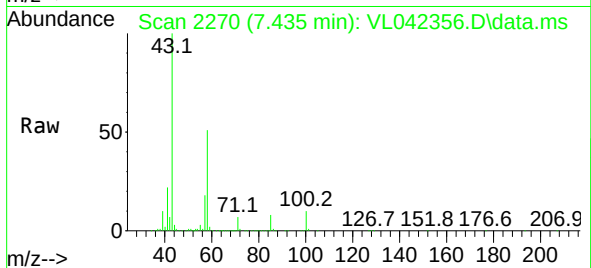
Tgt Ion: 43 Resp: 376145
Ion Ratio Lower Upper
43 100
58 36.2 28.6 43.0





#51
2-Hexanone
Concen: 8.118 ppbv
RT: 7.435 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

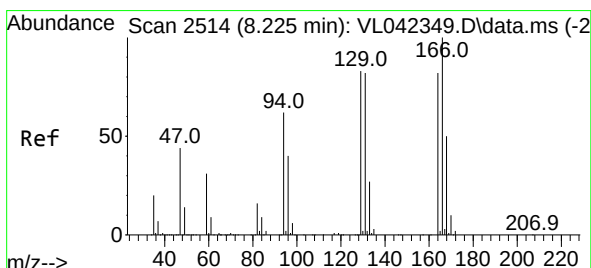
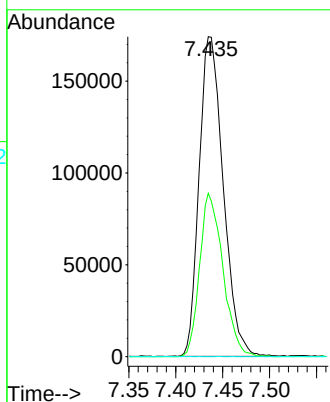
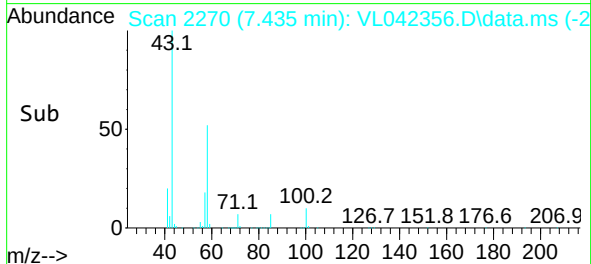
Instrument : MSVOA_L
ClientSampleId : ICVVL041725



Tgt Ion: 43 Resp: 31052
Ion Ratio Lower Upper
43 100
58 49.3 40.2 60.4
98 0.0 0.1 0.1

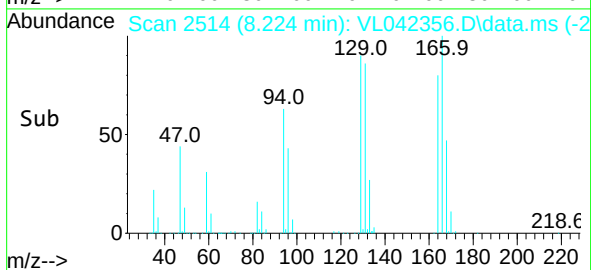
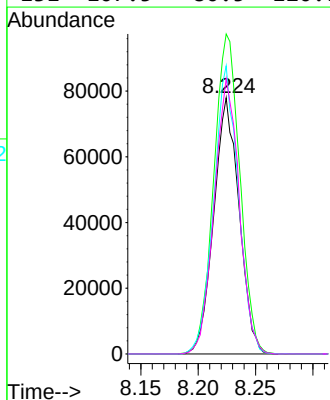
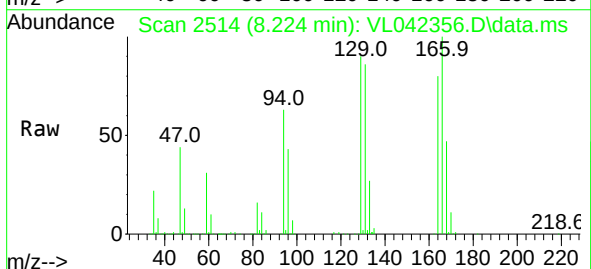
Manual Integrations
APPROVED

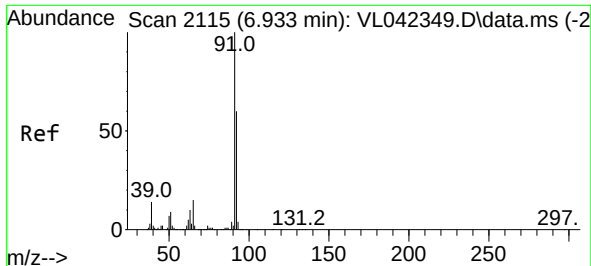
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#52
Tetrachloroethene
Concen: 8.827 ppbv
RT: 8.224 min Scan# 2514
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

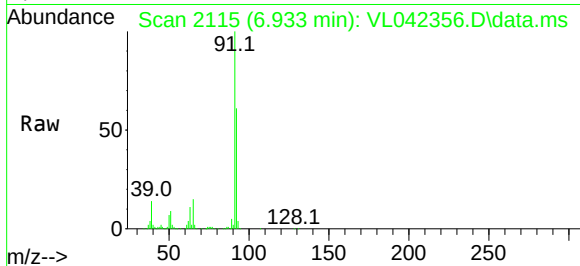
Tgt Ion:164 Resp: 119424
Ion Ratio Lower Upper
164 100
166 124.9 98.2 147.2
129 112.5 81.8 122.8
131 107.5 80.5 120.7





#53
Toluene
Concen: 9.986 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

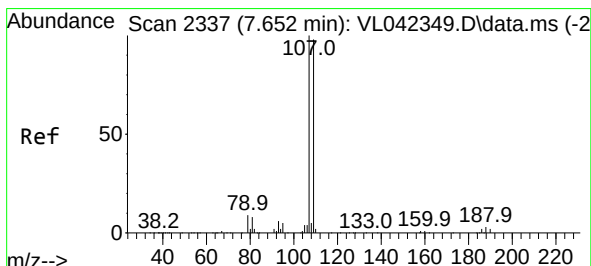
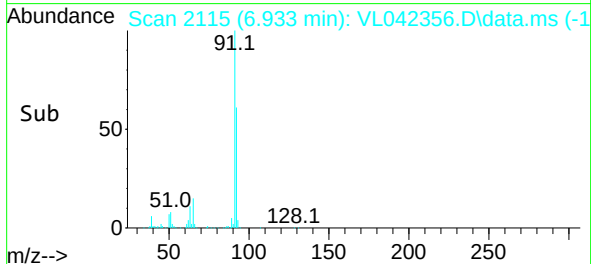
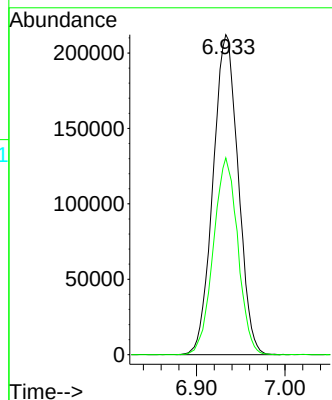
Instrument : MSVOA_L
ClientSampleId : ICVVL041725



Tgt Ion: 91 Resp: 419462
Ion Ratio Lower Upper
91 100
92 59.6 48.2 72.4

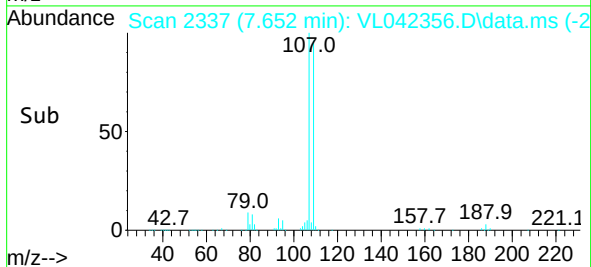
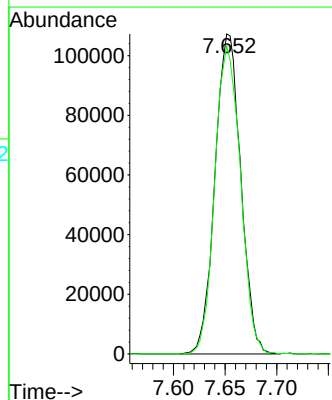
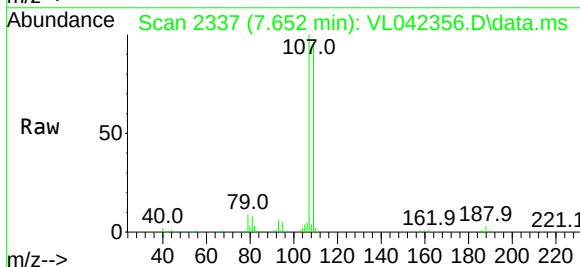
Manual Integrations APPROVED

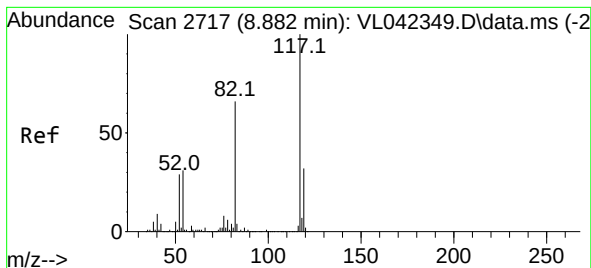
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#54
1,2-Dibromoethane
Concen: 9.792 ppbv
RT: 7.652 min Scan# 2337
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:107 Resp: 186231
Ion Ratio Lower Upper
107 100
109 96.3 78.2 117.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.881 min Scan# 2717

Delta R.T. -0.000 min

Lab File: VL042356.D

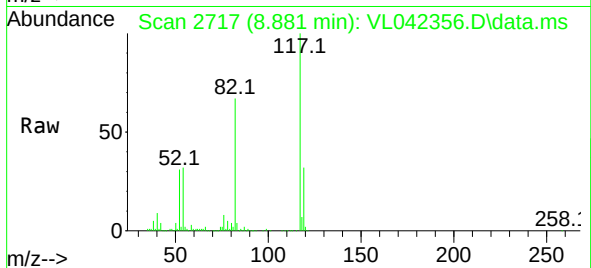
Acq: 17 Apr 2025 13:43

Instrument :

MSVOA_L

ClientSampleId :

ICVVL041725

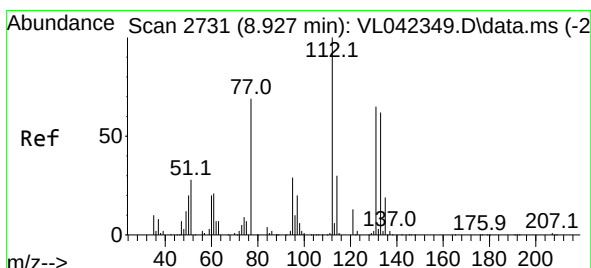
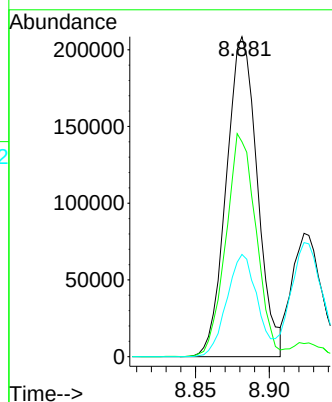
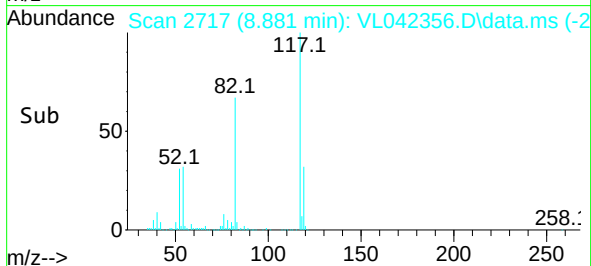


Tgt Ion	Ratio	Lower	Upper
117	100		
82	68.3	57.8	86.6
119	31.8	25.2	37.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#56

1,1,1,2-Tetrachloroethane

Concen: 9.886 ppbv

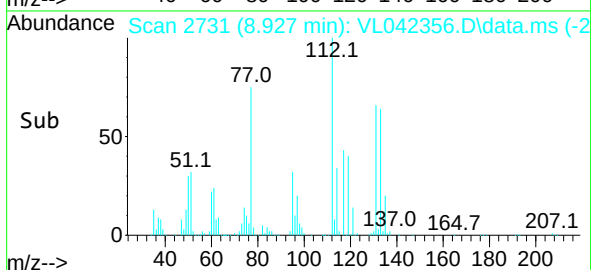
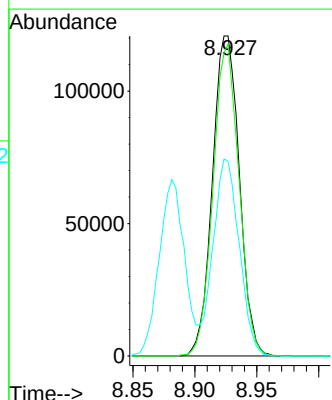
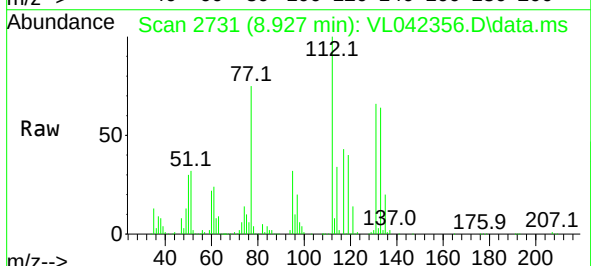
RT: 8.927 min Scan# 2731

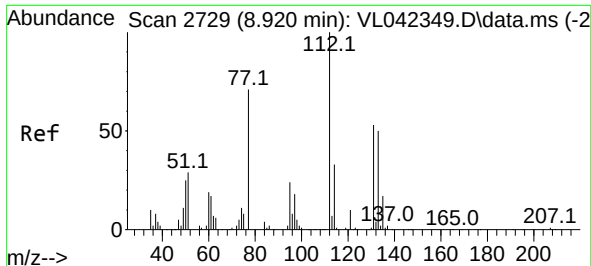
Delta R.T. -0.000 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

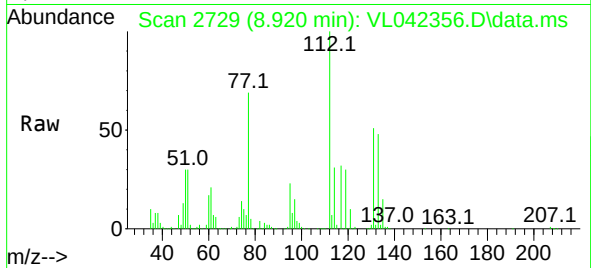
Tgt Ion	Ratio	Lower	Upper
131	100		
133	93.9	78.3	117.5
119	59.4	48.7	73.1





#57
Chlorobenzene
Concen: 9.589 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

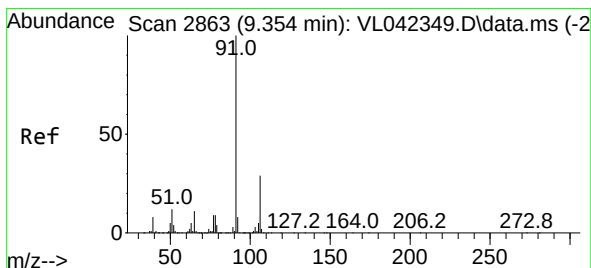
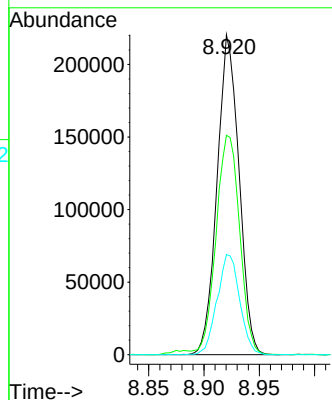
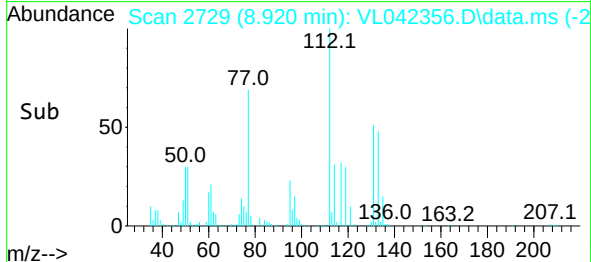
Instrument : MSVOA_L
ClientSampleId : ICVVL041725



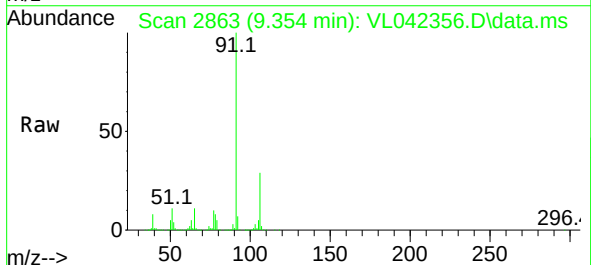
Tgt Ion: 112 Resp: 30453
Ion Ratio Lower Upper
112 100
77 68.5 57.8 86.6
114 31.3 29.3 35.9

Manual Integrations APPROVED

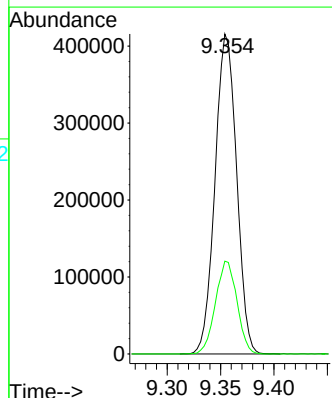
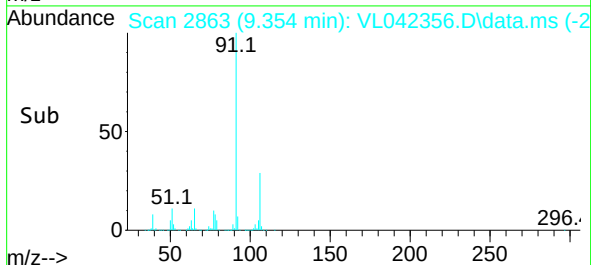
Reviewed By : Semsettin Yesilyurt 04/18/2025
Supervised By : Mahesh Dadoda 04/18/2025

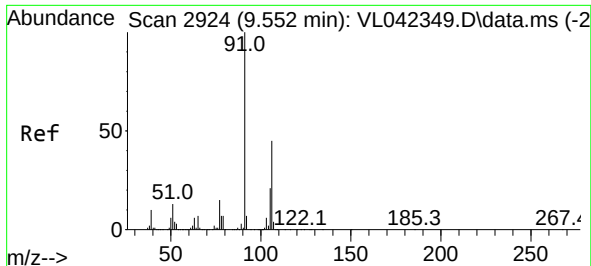


#58
Ethyl Benzene
Concen: 9.645 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



Tgt Ion: 91 Resp: 583515
Ion Ratio Lower Upper
91 100
106 29.0 23.0 34.4





#59

m/p-Xylene

Concen: 19.139 ppbv m

RT: 9.532 min Scan# 2918

Delta R.T. -0.020 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

Instrument :

MSVOA_L

ClientSampleId :

ICVVL041725

Tgt Ion: 91 Resp: 93280

Ion Ratio Lower Upper

91 100

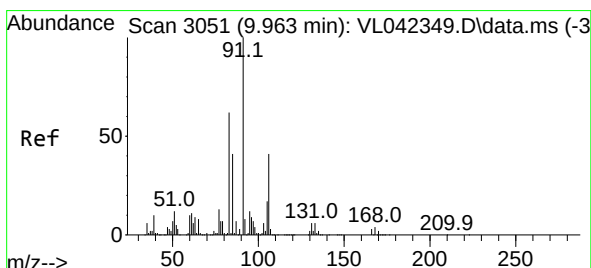
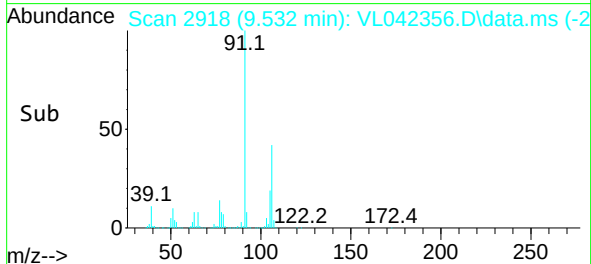
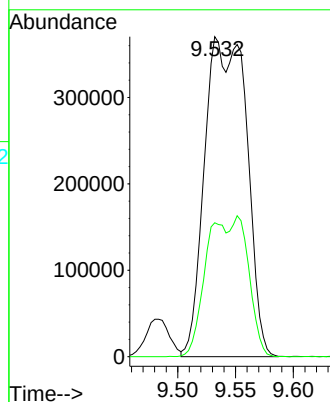
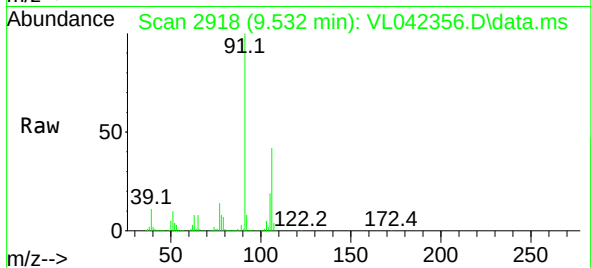
106 43.7 35.4 53.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#60

o-Xylene

Concen: 9.465 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. 0.003 min

Lab File: VL042356.D

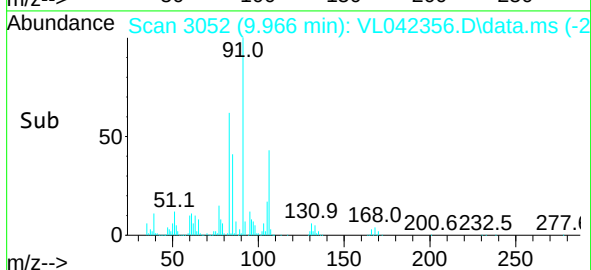
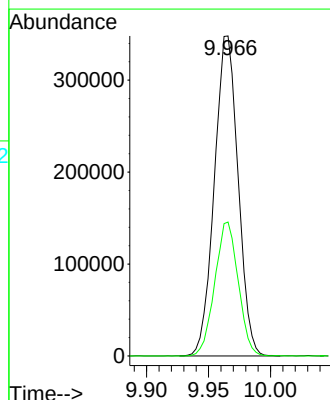
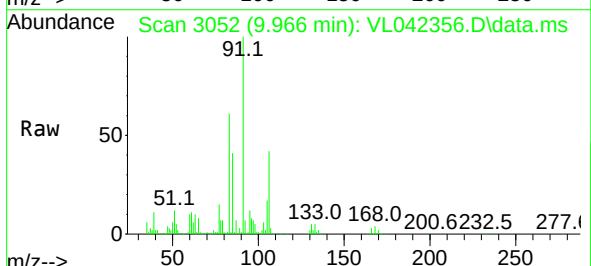
Acq: 17 Apr 2025 13:43

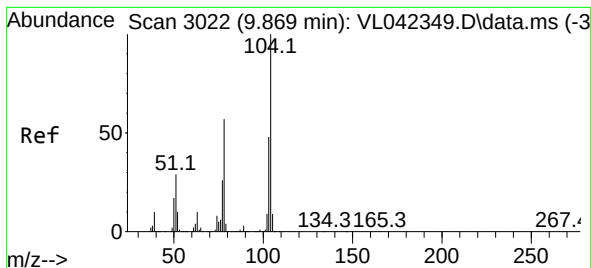
Tgt Ion: 91 Resp: 464522

Ion Ratio Lower Upper

91 100

106 41.4 21.1 63.4





#61

Styrene

Concen: 9.813 ppbv

RT: 9.872 min Scan# 3022

Delta R.T. 0.003 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

Instrument :

MSVOA_L

ClientSampleId :

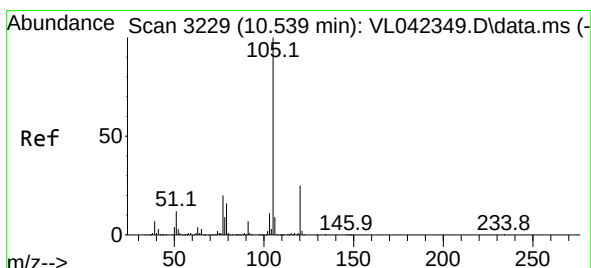
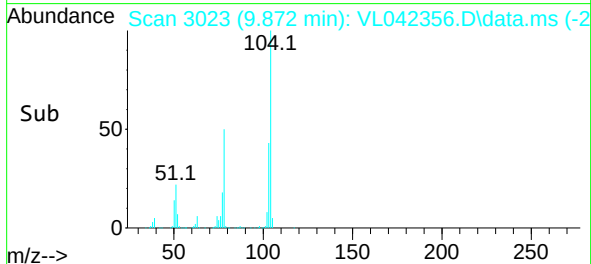
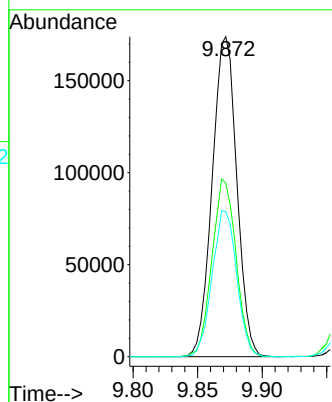
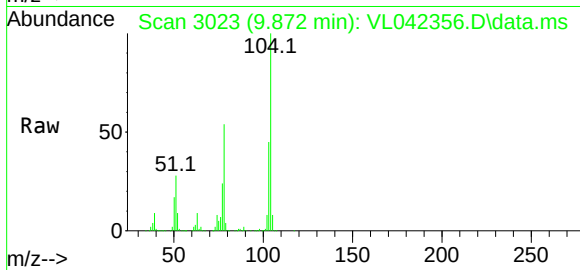
ICVVL041725

Tgt Ion:104 Resp: 229865
 Ion Ratio Lower Upper
 104 100
 78 54.5 44.6 66.8
 103 45.7 37.4 56.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#62

Isopropylbenzene

Concen: 9.520 ppbv

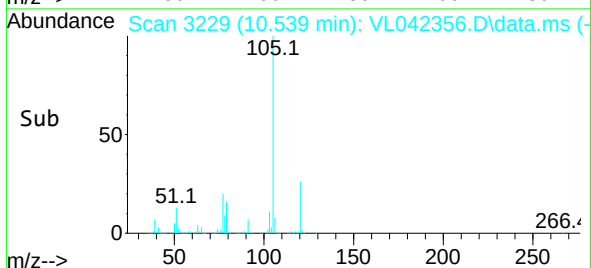
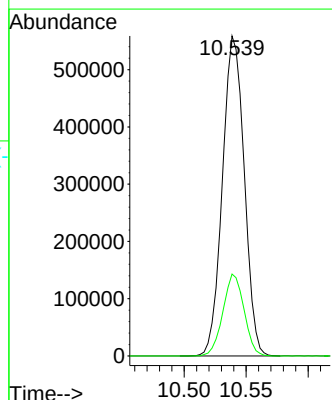
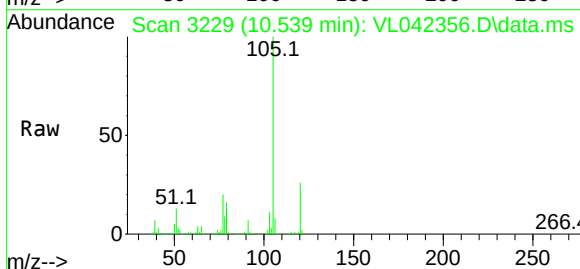
RT: 10.539 min Scan# 3229

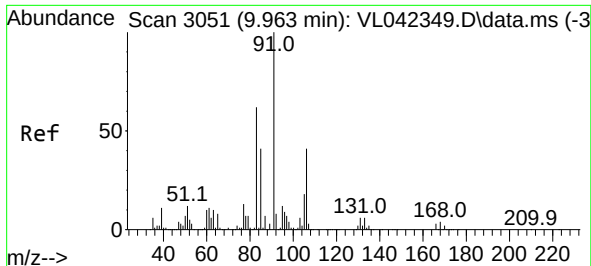
Delta R.T. -0.000 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

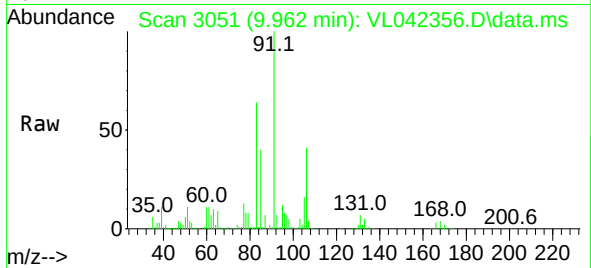
Tgt Ion:105 Resp: 685965
 Ion Ratio Lower Upper
 105 100
 120 24.8 19.8 29.8





#63
1,1,2,2-Tetrachloroethane
Concen: 8.773 ppbv
RT: 9.962 min Scan# 3051
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

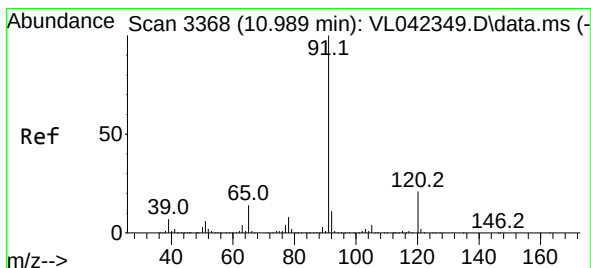
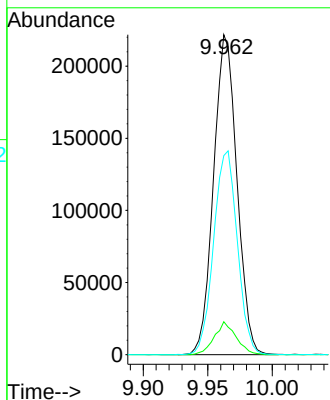
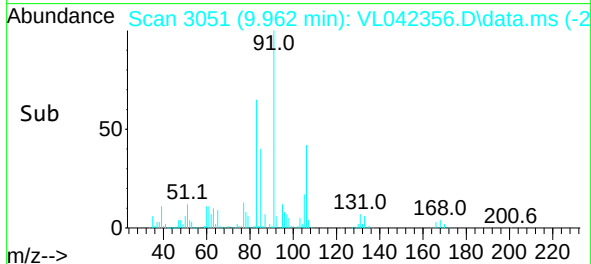
Instrument : MSVOA_L
ClientSampleId : ICVVL041725



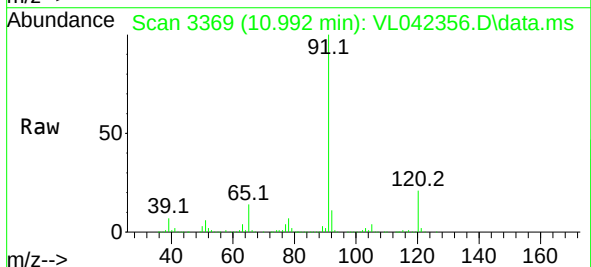
Tgt Ion: 83 Resp: 27900
Ion Ratio Lower Upper
83 100
131 9.6 4.5 13.7
85 64.6 32.4 97.0

Manual Integrations
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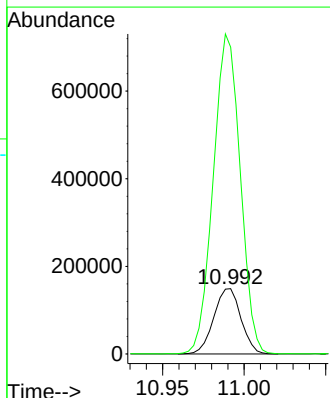
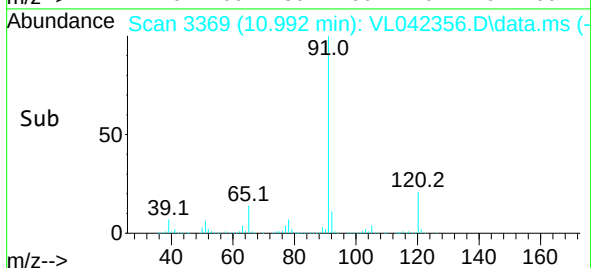
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

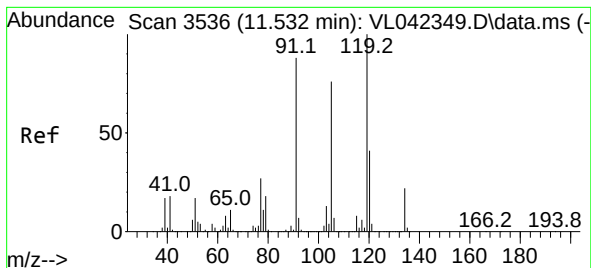


#64
n-propylbenzene
Concen: 9.533 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



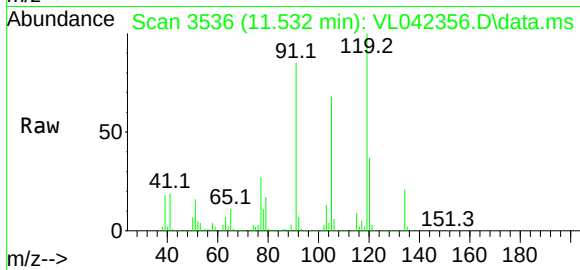
Tgt Ion:120 Resp: 172654
Ion Ratio Lower Upper
120 100
91 487.7 392.4 588.6





#65
tert-Butylbenzene
Concen: 9.203 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

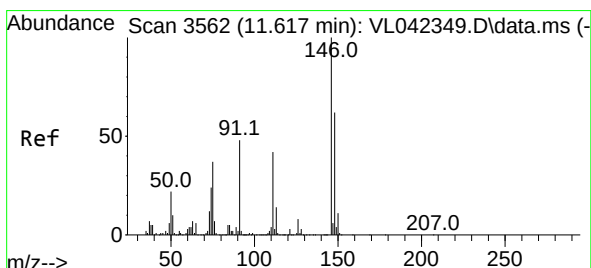
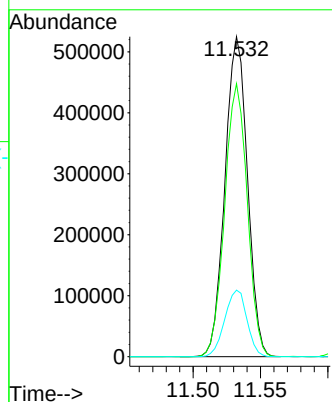
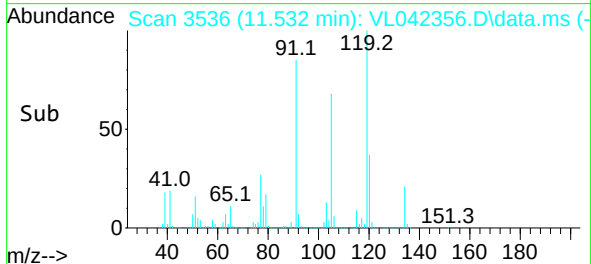
Instrument : MSVOA_L
ClientSampleId : ICVVL041725



Tgt Ion: 119 Resp: 609500
Ion Ratio Lower Upper
119 100
91 85.8 74.6 111.8
134 20.5 18.8 28.2

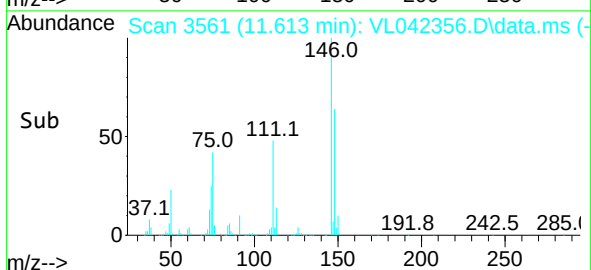
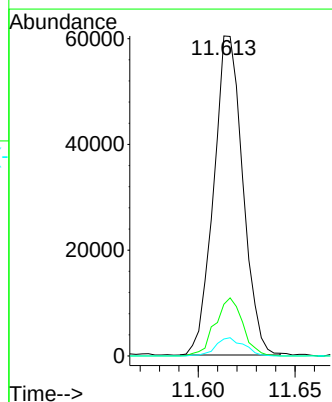
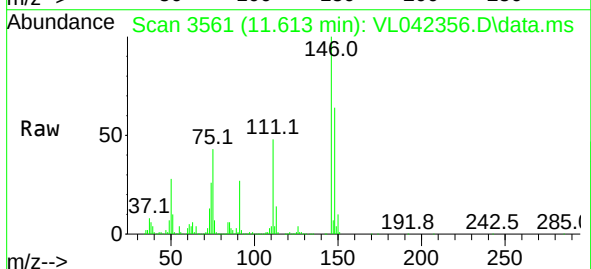
Manual Integrations
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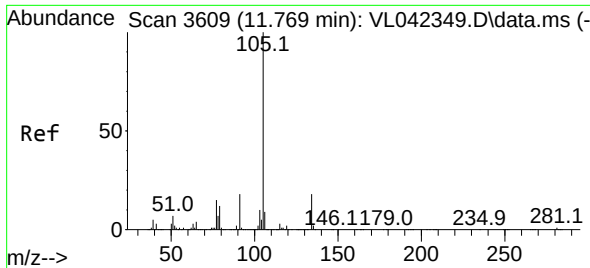
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#66
Benzyl Chloride
Concen: 8.664 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. -0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

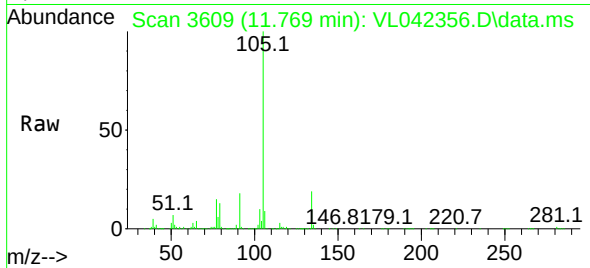
Tgt Ion: 91 Resp: 63051
Ion Ratio Lower Upper
91 100
126 17.3 11.8 17.6
128 5.6 4.5 6.7





#67
 sec-Butylbenzene
 Concen: 9.268 ppbv
 RT: 11.769 min Scan# 3609
 Delta R.T. -0.000 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

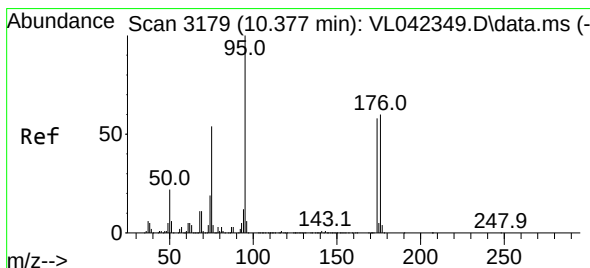
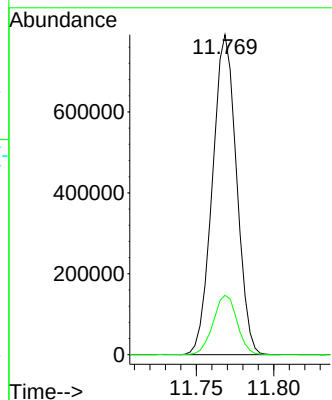
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL041725



Tgt Ion:105 Resp: 85380
 Ion Ratio Lower Upper
 105 100
 134 18.5 14.6 21.8

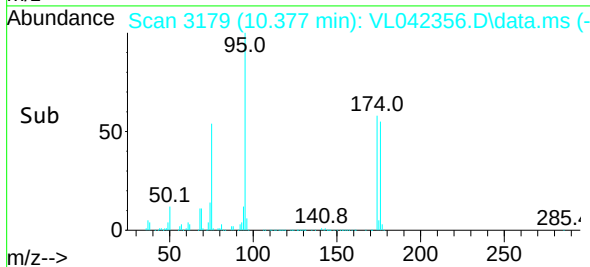
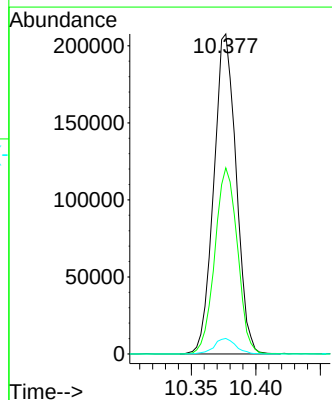
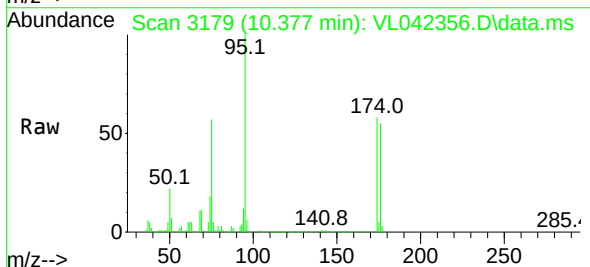
Manual Integrations APPROVED

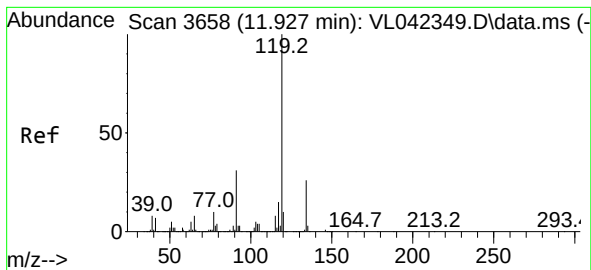
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.969 ppbv
 RT: 10.377 min Scan# 3179
 Delta R.T. -0.000 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

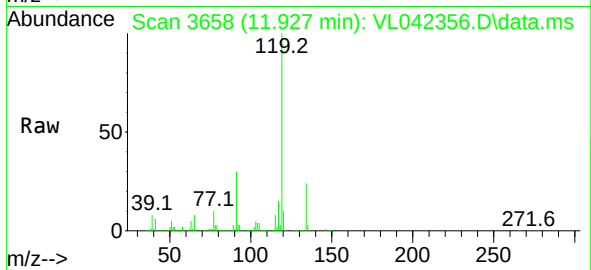
Tgt Ion: 95 Resp: 250149
 Ion Ratio Lower Upper
 95 100
 174 58.7 48.5 72.7
 175 4.7 3.7 5.5





#69
p-Isopropyltoluene
Concen: 9.220 ppbv
RT: 11.927 min Scan# 3658
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

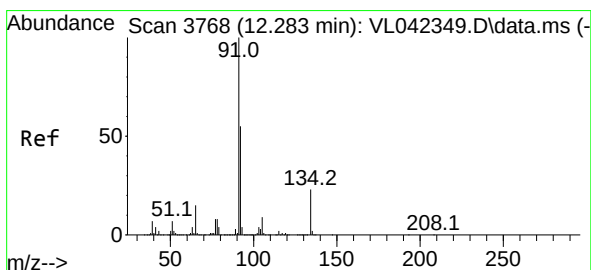
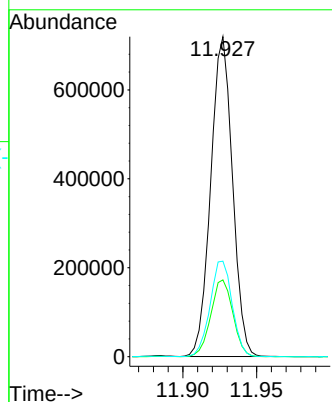
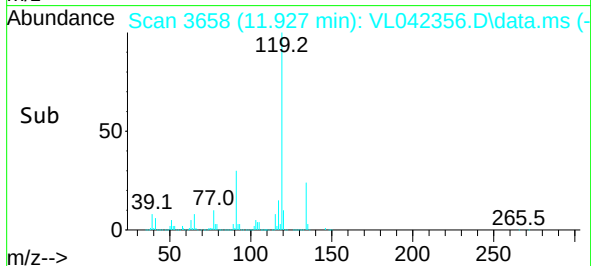
Instrument : MSVOA_L
ClientSampleId : ICVVL041725



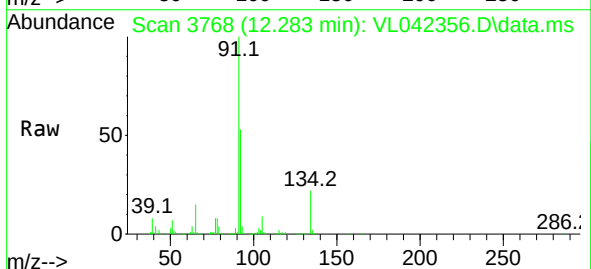
Tgt Ion: 119 Resp: 737861
Ion Ratio Lower Upper
119 100
134 24.5 20.0 30.0
91 30.6 24.4 36.6

Manual Integrations
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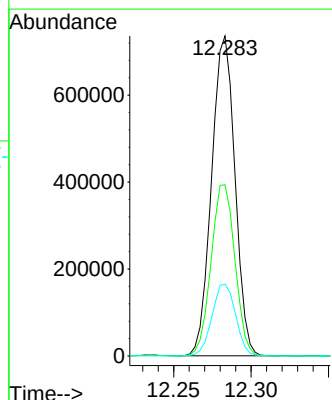
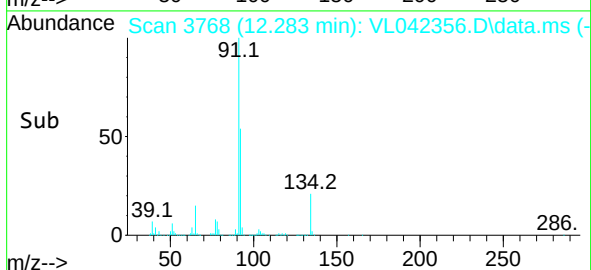
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

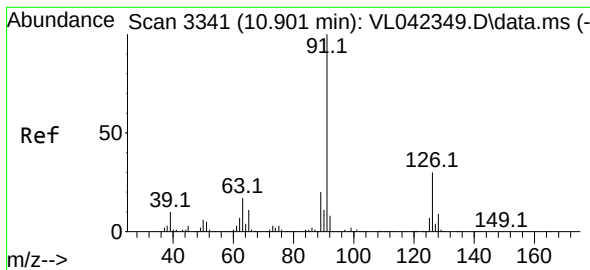


#70
n-Butylbenzene
Concen: 9.255 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



Tgt Ion: 91 Resp: 771461
Ion Ratio Lower Upper
91 100
92 54.9 44.2 66.4
134 22.7 18.2 27.4





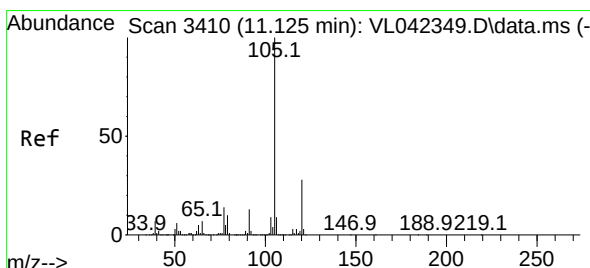
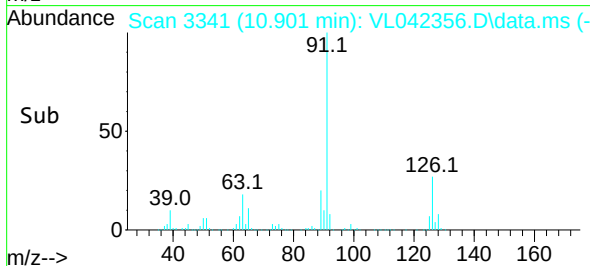
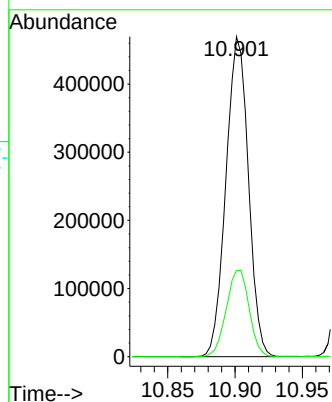
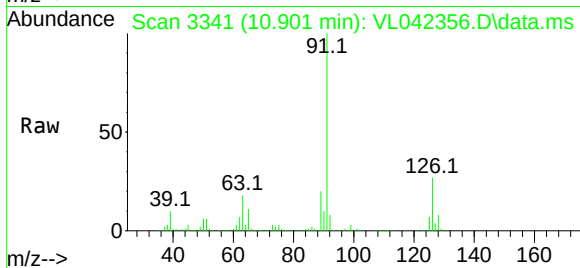
#71
2-Chlorotoluene
Concen: 9.622 ppbv
RT: 10.901 min Scan# 31
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Tgt Ion: 91 Resp: 543794
Ion Ratio Lower Upper
91 100
126 27.5 11.4 45.4

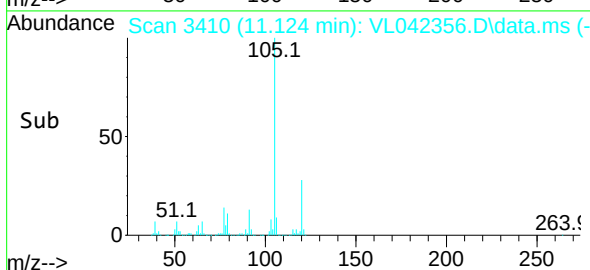
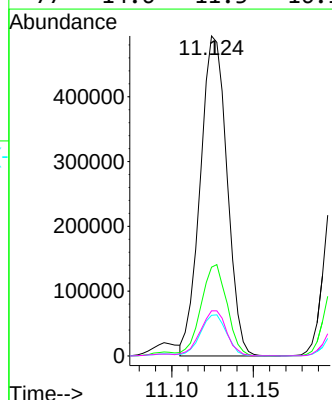
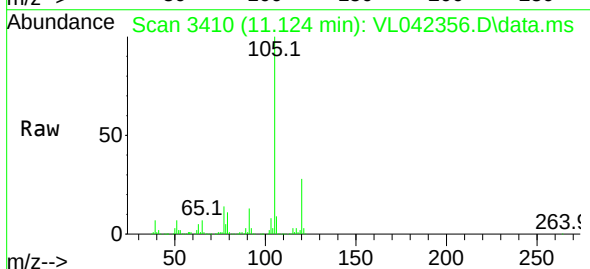
Manual Integrations
APPROVED

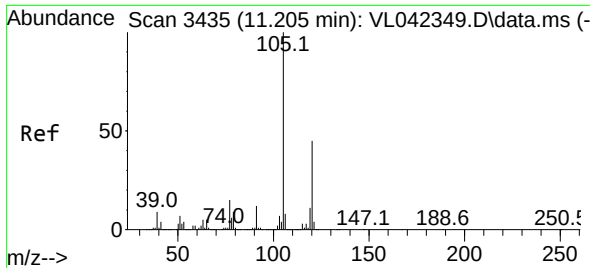
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#72
4-Ethyltoluene
Concen: 9.385 ppbv
RT: 11.124 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:105 Resp: 563136
Ion Ratio Lower Upper
105 100
120 28.9 23.2 34.8
91 13.2 10.4 15.6
77 14.6 11.3 16.9





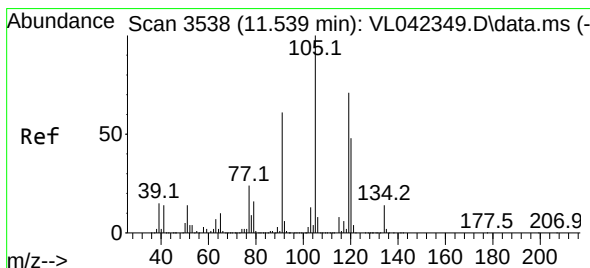
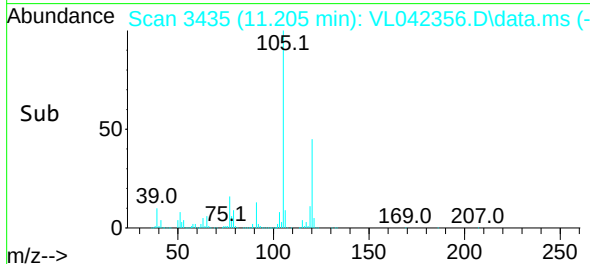
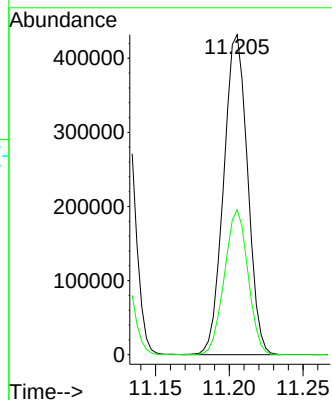
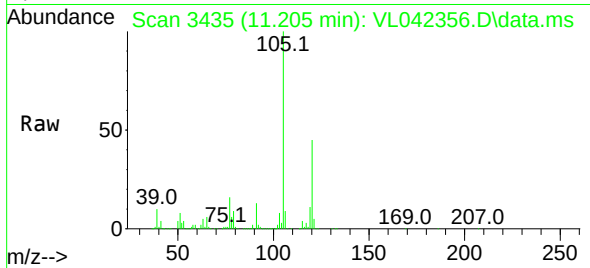
#73
1,3,5-Trimethylbenzene
Concen: 9.186 ppbv
RT: 11.205 min Scan# 3435
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Instrument : MSVOA_L
ClientSampleId : ICVVL041725

Tgt Ion:105 Resp: 48658
Ion Ratio Lower Upper
105 100
120 45.2 35.6 53.4

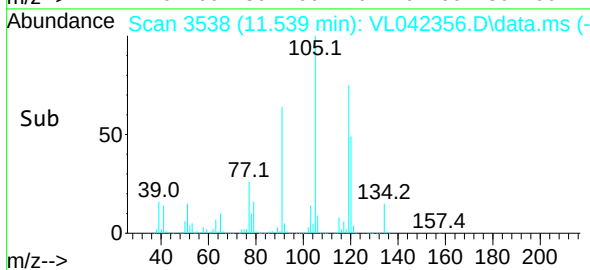
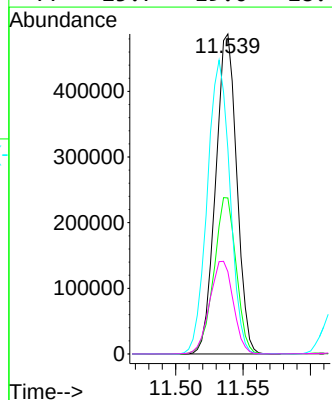
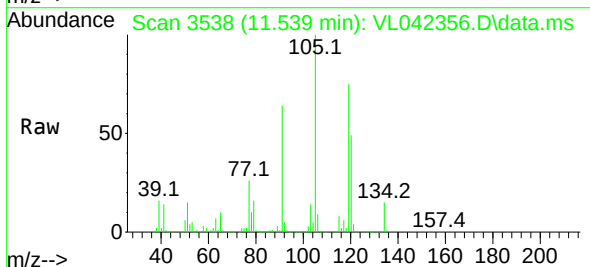
Manual Integrations
APPROVED

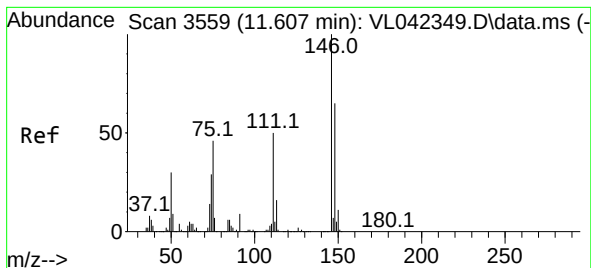
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#74
1,2,4-Trimethylbenzene
Concen: 8.592 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:105 Resp: 531576
Ion Ratio Lower Upper
105 100
120 48.7 38.1 57.1
91 64.0 48.8 73.2
77 25.7 19.0 28.4





#75

1,3-Dichlorobenzene

Concen: 9.240 ppbv

RT: 11.610 min Scan# 3559

Delta R.T. 0.003 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

Instrument :

MSVOA_L

ClientSampleId :

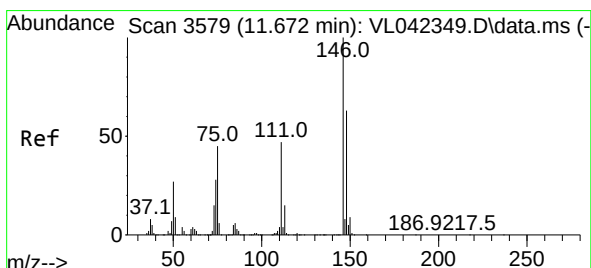
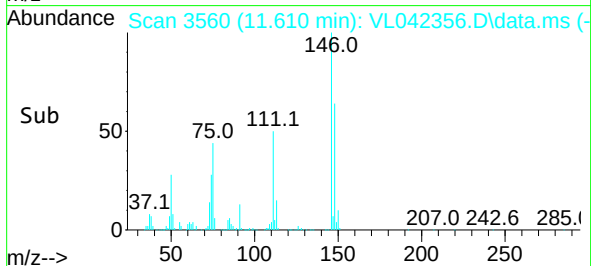
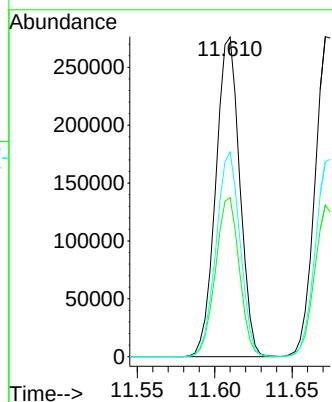
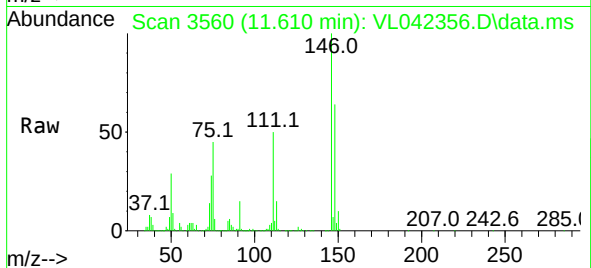
ICVVL041725

Tgt Ion:	146	Resp:	29715
Ion	Ratio	Lower	Upper
146	100		
111	49.5	24.3	72.8
148	64.1	31.6	94.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#76

1,4-Dichlorobenzene

Concen: 9.210 ppbv

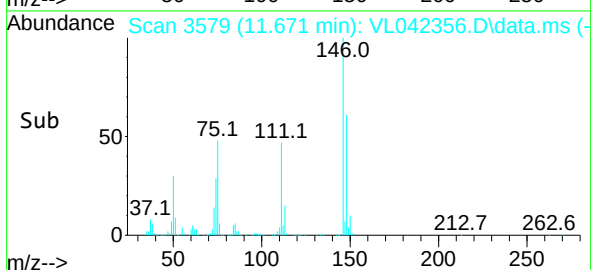
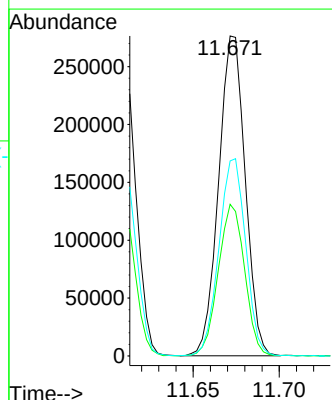
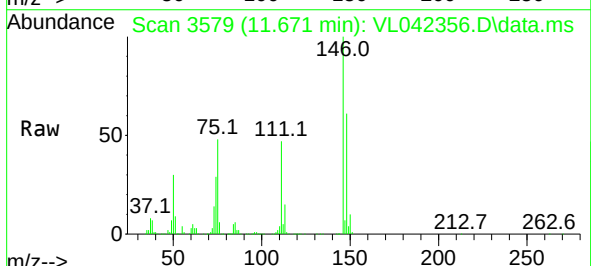
RT: 11.671 min Scan# 3579

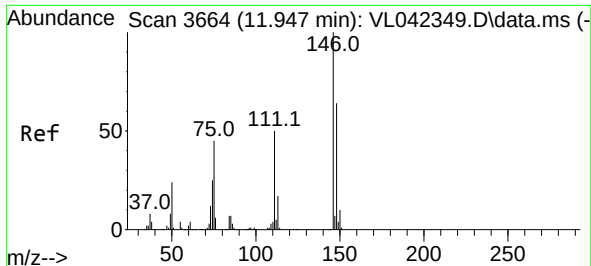
Delta R.T. -0.000 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

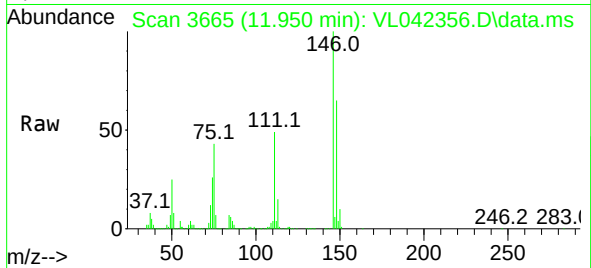
Tgt Ion:	146	Resp:	297697
Ion	Ratio	Lower	Upper
146	100		
111	47.1	24.2	72.6
148	62.3	32.1	96.5





#77
1,2-Dichlorobenzene
Concen: 9.251 ppbv
RT: 11.950 min Scan# 3665
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

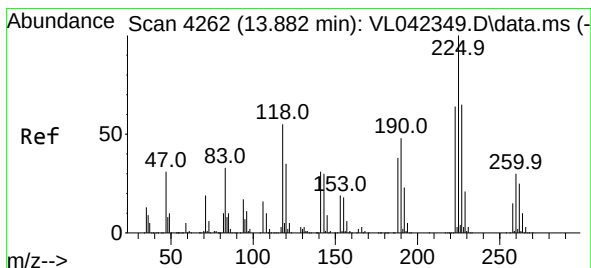
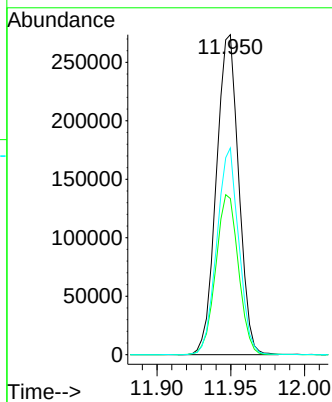
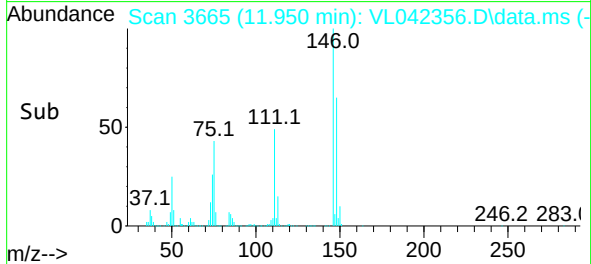
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725



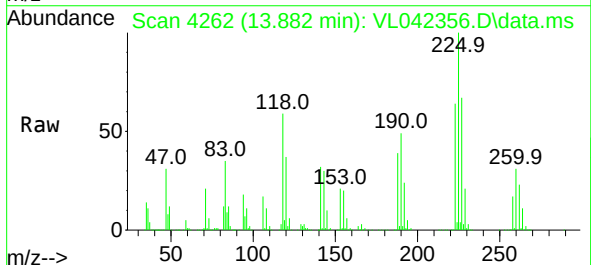
Tgt Ion:146 Resp: 289284
Ion Ratio Lower Upper
146 100
111 50.8 25.3 75.9
148 63.4 31.5 94.5

Manual Integrations
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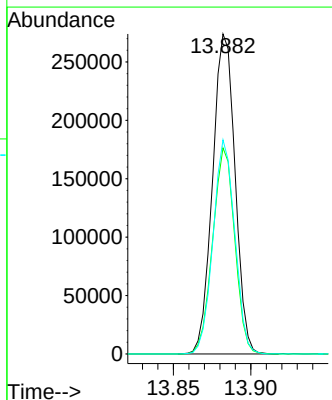
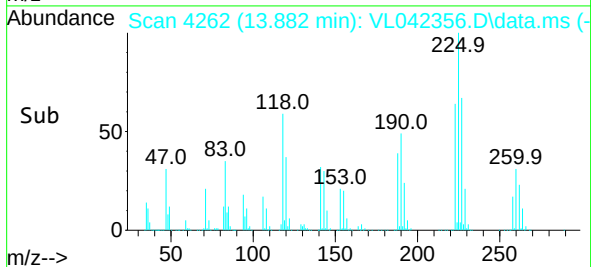
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

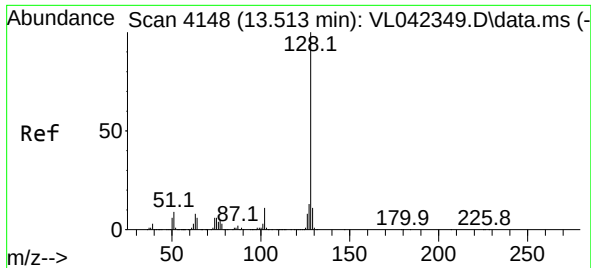


#78
Hexachloro-1,3-Butadiene
Concen: 8.771 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



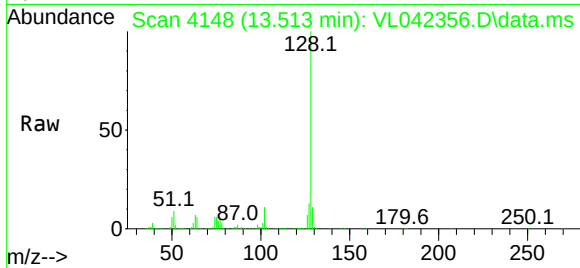
Tgt Ion:225 Resp: 276960
Ion Ratio Lower Upper
225 100
223 63.0 50.3 75.5
227 64.5 51.5 77.3





#79
Naphthalene
Concen: 8.750 ppbv
RT: 13.513 min Scan# 4148
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

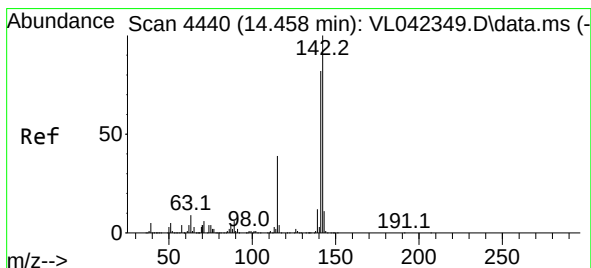
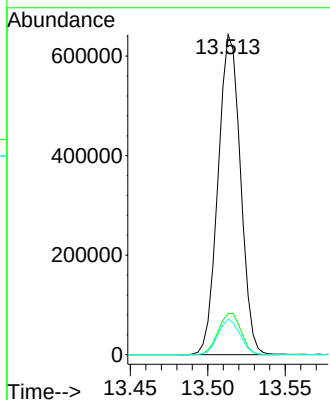
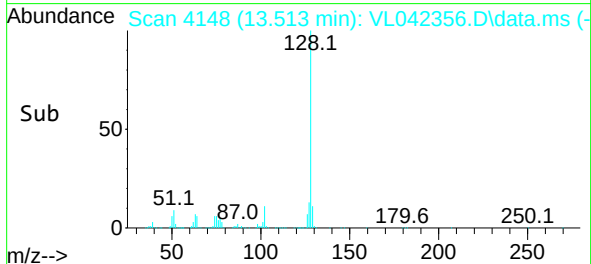
Instrument : MSVOA_L
ClientSampleId : ICVVL041725



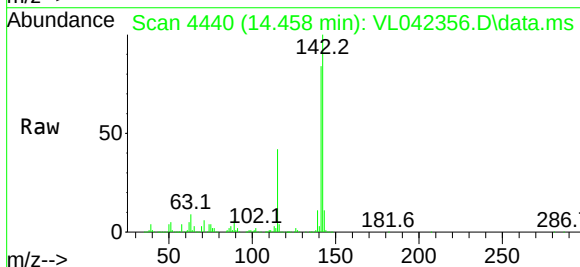
Tgt Ion:128 Resp: 647349
Ion Ratio Lower Upper
128 100
127 12.9 10.6 15.8
129 11.1 8.6 12.8

Manual Integrations
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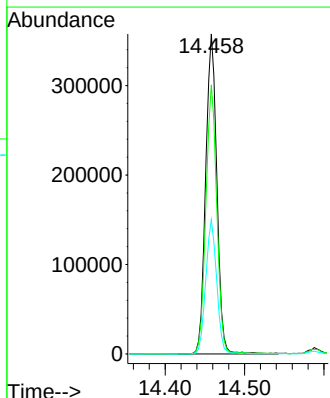
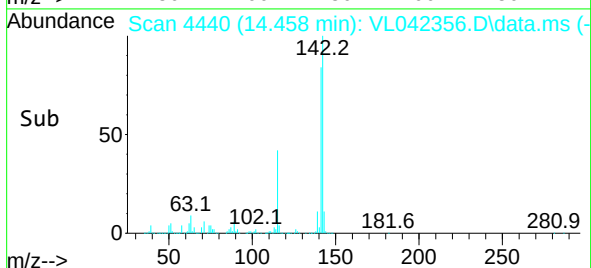
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

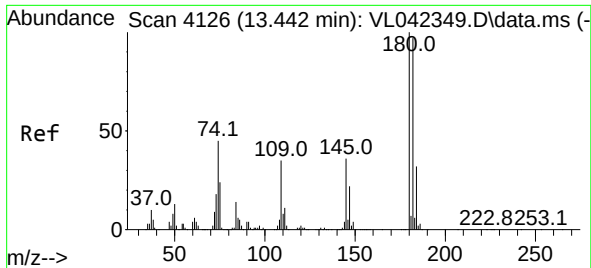


#80
Naphthalene,2-methyl-
Concen: 8.307 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



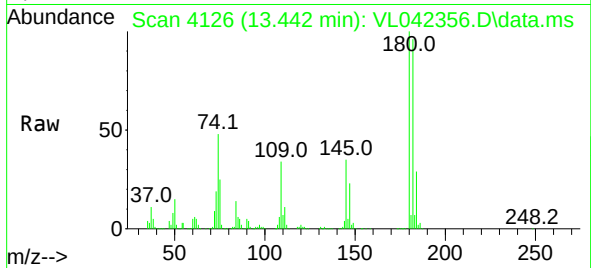
Tgt Ion:142 Resp: 350259
Ion Ratio Lower Upper
142 100
141 83.0 66.8 100.2
115 41.4 33.4 50.2





#81
 1,2,4-Trichlorobenzene
 Concen: 9.136 ppbv
 RT: 13.442 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

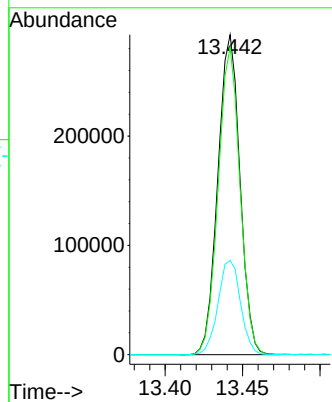
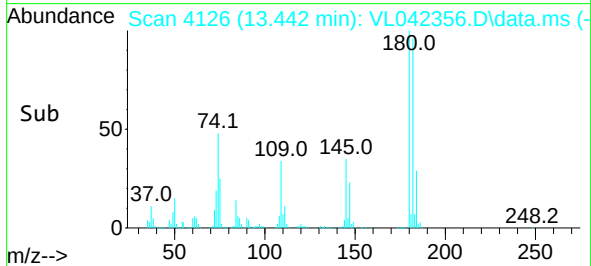
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL041725



Tgt Ion:180 Resp: 290260
 Ion Ratio Lower Upper
 180 100
 182 94.7 76.8 115.2
 184 30.1 24.6 36.8

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042356.D
 Acq On : 17 Apr 2025 13:43
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL041725

Quant Time: Apr 18 02:15:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 02:14:00 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	91	0.00
2 T	Dichlorodifluoromethane	1.767	1.734	1.9	95	0.00
3	Chlorodifluoromethane	1.682	1.676	0.4	97	0.00
4	Chloromethane	0.699	0.685	2.0	95	0.00
5 T	Vinyl Chloride	0.761	0.663	12.9	94	0.00
6 T	Bromomethane	0.327	0.308	5.8	92	0.00
7	Chloroethane	0.275	0.265	3.6	95	0.00
8 T	Dichlorotetrafluoroethane	1.517	1.516	0.1	96	0.00
9 T	Propene	0.766	0.742	3.1	98	0.00
10 T	Heptane	2.153	1.946	9.6	94	0.00
11 T	Trichlorofluoromethane	1.680	1.648	1.9	96	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.374	1.303	5.2	92	0.00
13	Ethanol	0.122	0.037#	69.7#	94	0.00
14 T	Bromoethene	0.518	0.512	1.2	95	0.00
15 T	Acetone	1.637	1.392	15.0	100	0.00
16 T	1,3-Butadiene	0.783	0.691	11.7	96	0.00
17	tert-Butyl alcohol	2.029	1.921	5.3	97	0.00
18 T	1,1-Dichloroethene	0.642	0.596	7.2	93	0.00
19 T	Isopropyl Alcohol	0.909	0.845	7.0	94	0.00
20 T	Methylene Chloride	0.641	0.519	19.0	95	0.00
21 T	Allyl Chloride	1.130	1.059	6.3	99	0.00
22 T	trans-1,2-Dichloroethene	0.731	0.685	6.3	94	0.00
23 T	Vinyl Acetate	0.663	0.644	2.9	105	0.00
24 T	1,1-Dichloroethane	1.388	1.365	1.7	97	0.00
25 T	Ethyl Acetate	4.036	3.939	2.4	97	0.00
26 T	Hexane	1.633	1.542	5.6	98	0.00
27 T	Carbon Disulfide	1.749	1.677	4.1	91	0.00
28 T	Methyl tert-Butyl Ether	1.070	1.011	5.5	98	0.00
29 T	Chloroform	2.309	2.288	0.9	97	0.00
30 T	Cyclohexane	1.320	1.300	1.5	94	0.00
31 T	cis-1,2-Dichloroethene	1.553	1.579	-1.7	98	0.00
32 T	1,1,1-Trichloroethane	2.599	2.426	6.7	97	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	89	0.00
34 T	2-Butanone	0.791	0.767	3.0	99	0.00
35 T	Carbon Tetrachloride	0.905	0.838	7.4	96	0.00
36 T	Benzene	1.079	1.080	-0.1	95	0.00
37 T	1,2-Dichloroethane	0.647	0.653	-0.9	98	0.00
38 T	Trichloroethene	0.471	0.431	8.5	97	0.00
39 T	1,2-Dichloropropane	0.402	0.398	1.0	95	0.00
40 T	1,4-Dioxane	0.221	0.190	14.0	92	0.00
41 T	Tetrahydrofuran	0.461	0.437	5.2	95	0.00
42 T	Bromodichloromethane	0.901	0.915	-1.6	95	0.00
43	Methyl Methacrylate	0.486	0.460	5.3	95	0.00
44 T	2,2,4-Trimethylpentane	1.863	1.868	-0.3	97	0.00
45 T	t-1,3-Dichloropropene	0.497	0.495	0.4	96	0.00
46 T	cis-1,3-Dichloropropene	0.608	0.617	-1.5	96	0.00
47 T	1,1,2-Trichloroethane	0.410	0.418	-2.0	98	0.00
48 T	Dibromochloromethane	0.723	0.731	-1.1	95	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042356.D
 Acq On : 17 Apr 2025 13:43
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL041725

Quant Time: Apr 18 02:15:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 02:14:00 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	0.633	0.634	-0.2	91	0.00
50 T	4-Methyl-2-Pentanone	1.314	1.159	11.8	95	0.00
51 T	2-Hexanone	1.179	0.957	18.8	95	0.00
52 T	Tetrachloroethene	0.417	0.368	11.8	91	0.00
53 T	Toluene	1.294	1.293	0.1	96	0.00
54 T	1,2-Dibromoethane	0.586	0.574	2.0	94	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	90	0.00
56	1,1,1,2-Tetrachloroethane	0.605	0.598	1.2	98	0.00
57 T	Chlorobenzene	1.040	0.997	4.1	94	0.00
58 T	Ethyl Benzene	1.981	1.911	3.5	94	0.00
59 T	m/p-Xylene	1.596	1.527	4.3	95	-0.02
60 T	o-Xylene	1.607	1.521	5.4	95	0.00
61 T	Styrene	0.767	0.753	1.8	94	0.00
62	Isopropylbenzene	2.360	2.246	4.8	93	0.00
63 T	1,1,2,2-Tetrachloroethane	1.042	0.914	12.3	95	0.00
64	n-propylbenzene	0.593	0.565	4.7	94	0.00
65	tert-Butylbenzene	2.169	1.996	8.0	95	0.00
66 T	Benzyl Chloride	0.238	0.206	13.4	76	0.00
67	sec-Butylbenzene	3.017	2.796	7.3	95	0.00
68 S	1-Bromo-4-Fluorobenzene	0.822	0.819	0.4	89	0.00
69	p-Isopropyltoluene	2.621	2.416	7.8	95	0.00
70	n-Butylbenzene	2.730	2.526	7.5	96	0.00
71	2-Chlorotoluene	1.851	1.781	3.8	95	0.00
72 T	4-Ethyltoluene	1.965	1.844	6.2	94	0.00
73 T	1,3,5-Trimethylbenzene	1.735	1.593	8.2	95	0.00
74 T	1,2,4-Trimethylbenzene	2.026	1.741	14.1	94	0.00
75 T	1,3-Dichlorobenzene	1.053	0.973	7.6	93	0.00
76 T	1,4-Dichlorobenzene	1.059	0.975	7.9	93	0.00
77 T	1,2-Dichlorobenzene	1.024	0.947	7.5	95	0.00
78 T	Hexachloro-1,3-Butadiene	1.034	0.907	12.3	95	0.00
79 T	Naphthalene	2.423	2.120	12.5	96	0.00
80 T	Naphthalene,2-methyl-	1.381	1.147	16.9	93	0.00
81 T	1,2,4-Trichlorobenzene	1.040	0.951	8.6	95	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: RMJE02

Lab Code: CHEM Case No.: Q1908 SAS No.: Q1908 SDG No.: Q1908

Instrument ID: MSVOA_L Calibration Date/Time: 04/29/2025 08:39

Lab File ID: VL042436.D Init. Calib. Date(s): 04/17/2025 04/17/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 09:44 12:54

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

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	1.767	2.050		16.02	30
Chloromethane	0.699	0.788		12.73	30
Vinyl Chloride	0.761	0.756		-0.66	30
Bromomethane	0.327	0.358		9.48	30
Chloroethane	0.275	0.307		11.64	30
Tetrahydrofuran	0.461	0.391		-15.18	30
Trichlorofluoromethane	1.680	1.990		18.45	30
1,1,2-Trichlorotrifluoroethane	1.374	1.502		9.32	30
Dichlorotetrafluoroethane	1.517	1.746		15.1	30
tert-Butyl alcohol	2.029	2.005		-1.18	30
Heptane	2.153	1.613		-25.08	30
1,1-Dichloroethene	0.642	0.659		2.65	30
Acetone	1.637	1.614		-1.4	30
Carbon Disulfide	1.749	1.858		6.23	30
Methyl tert-Butyl Ether	1.070	0.996		-6.92	30
Methylene Chloride	0.641	0.587		-8.42	30
trans-1,2-Dichloroethene	0.731	0.756		3.42	30
1,1-Dichloroethane	1.388	1.506		8.5	30
Cyclohexane	1.320	1.140		-13.64	30
2-Butanone	0.791	0.745		-5.82	30
Carbon Tetrachloride	0.905	1.017		12.38	30
cis-1,2-Dichloroethene	1.553	1.525		-1.8	30
Chloroform	2.309	2.540		10	30
1,1,1-Trichloroethane	2.599	2.727		4.93	30
2,2,4-Trimethylpentane	1.863	1.678		-9.93	30
Benzene	1.079	1.010		-6.39	30
1,2-Dichloroethane	0.647	0.786		21.48	30
Trichloroethene	0.471	0.398		-15.5	30
1,2-Dichloropropane	0.402	0.354		-11.94	30
Bromodichloromethane	0.901	1.002		11.21	30
4-Methyl-2-Pentanone	1.314	1.047		-20.32	30
Toluene	1.294	1.161		-10.28	30
t-1,3-Dichloropropene	0.497	0.448		-9.86	30
cis-1,3-Dichloropropene	0.608	0.544		-10.53	30
1,1,2-Trichloroethane	0.410	0.415		1.22	30
Dibromochloromethane	0.723	0.748		3.46	30
1,2-Dibromoethane	0.586	0.578		-1.37	30
Tetrachloroethene	0.417	0.327		-21.58	30

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: RMJE02

Lab Code: CHEM Case No.: Q1908 SAS No.: Q1908 SDG No.: Q1908

Instrument ID: MSVOA_L Calibration Date/Time: 04/29/2025 08:39

Lab File ID: VL042436.D Init. Calib. Date(s): 04/17/2025 04/17/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 09:44 12:54

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

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Chlorobenzene	1.040	1.049		0.87	30
Ethyl Benzene	1.981	1.988		0.35	30
m/p-Xylene	1.596	1.685		5.58	30
o-Xylene	1.607	1.718		6.91	30
Styrene	0.767	0.725		-5.48	30
Bromoform	0.633	0.607		-4.11	30
1,1,2,2-Tetrachloroethane	1.042	1.010		-3.07	30
2-Chlorotoluene	1.851	1.956		5.67	30
1,3,5-Trimethylbenzene	1.735	1.830		5.48	30
1,2,4-Trimethylbenzene	2.026	2.052		1.28	30
1,3-Dichlorobenzene	1.053	1.056		0.28	30
1,4-Dichlorobenzene	1.059	1.081		2.08	30
1,2-Dichlorobenzene	1.024	1.051		2.64	30
1,2,4-Trichlorobenzene	1.040	0.974		-6.35	30
Hexachloro-1,3-Butadiene	1.034	0.976		-5.61	30
1,3-Butadiene	0.783	0.776		-0.89	30
Naphthalene	2.423	2.279		-5.94	30
4-Ethyltoluene	1.965	2.072		5.45	30
1-Bromo-4-Fluorobenzene	0.822	0.938		14.11	30
Hexane	1.633	1.343		-17.76	30
Allyl Chloride	1.130	1.151		1.86	30
1,4-Dioxane	220.893	174.653		-20.93	30
Methyl Methacrylate	0.486	0.407		-16.25	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\VL042925\
 Data File : VL042436.D
 Acq On : 29 Apr 2025 08:39
 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 04/30/2025
 Supervised By :Mahesh Dadoda 04/30/2025

Quant Time: Apr 30 01:15:51 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

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

QLast Update : Fri Apr 18 02:14:00 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.780	49	114553	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	311268	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	269987	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.373 95 253216 11.413 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 114.100%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.495	85	234841	11.603	ppbv	97
3) Chlorodifluoromethane	1.473	51	188007	9.755	ppbv	95
4) Chloromethane	1.531	50	90298	11.274	ppbv	100
5) Vinyl Chloride	1.576	62	86603	9.933	ppbv	96
6) Bromomethane	1.664	94	41020	10.952	ppbv	85
7) Chloroethane	1.703	64	35167	11.153	ppbv	95
8) Dichlorotetrafluoroethane	1.550	85	199977	11.508	ppbv	94
9) Propene	1.482	41	69189	7.883	ppbv	98
10) Heptane	4.968	43	184737	7.492	ppbv	99
11) Trichlorofluoromethane	1.874	101	227979	11.845	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.136	101	172070	10.934	ppbv	99
13) Ethanol	1.719	45	4336	3.108	ppbv	81
14) Bromoethene	1.777	108	63597	10.721	ppbv	97
15) Acetone	1.832	43	184887	9.859	ppbv	98
16) 1,3-Butadiene	1.605	39	88889	9.910	ppbv	95
17) tert-Butyl alcohol	2.036	59	229627	9.881	ppbv	99
18) 1,1-Dichloroethene	2.029	96	75451	10.263	ppbv	94
19) Isopropyl Alcohol	1.884	45	101987	9.790	ppbv	91
20) Methylene Chloride	2.059	84	67278	9.161	ppbv	95
21) Allyl Chloride	2.091	41	131864	10.184	ppbv	98
22) trans-1,2-Dichloroethene	2.337	96	86577	10.343	ppbv	95
23) Vinyl Acetate	2.460	43	61601	8.115	ppbv #	95
24) 1,1-Dichloroethane	2.405	63	172555	10.852	ppbv	98
25) Ethyl Acetate	2.832	43	408744	8.840	ppbv	100
26) Hexane	2.819	57	153801	8.220	ppbv	96
27) Carbon Disulfide	2.146	76	212793	10.622	ppbv	99
28) Methyl tert-Butyl Ether	2.437	73	114108	9.308	ppbv	93
29) Chloroform	2.845	83	290965	11.002	ppbv	100
30) Cyclohexane	3.848	84	130608	8.635	ppbv	97
31) cis-1,2-Dichloroethene	2.716	61	174659	9.818	ppbv	97
32) 1,1,1-Trichloroethane	3.363	97	312430	10.493	ppbv	99
34) 2-Butanone	2.554	43	232034	9.426	ppbv	98
35) Carbon Tetrachloride	3.755	117	316689	11.242	ppbv	94
36) Benzene	3.651	78	314493	9.367	ppbv	95
37) 1,2-Dichloroethane	3.214	62	244516	12.134	ppbv #	96
38) Trichloroethene	4.541	130	123997	8.450	ppbv #	88
39) 1,2-Dichloropropane	4.305	63	110315	8.817	ppbv #	84
40) 1,4-Dioxane	4.577	88	54364	7.907	ppbv #	90
41) Tetrahydrofuran	3.049	42	121700	8.479	ppbv	100
42) Bromodichloromethane	4.483	83	312029	11.127	ppbv	98
43) Methyl Methacrylate	4.874	69	126594	8.367	ppbv	94
44) 2,2,4-Trimethylpentane	4.632	57	522427	9.010	ppbv	94
45) t-1,3-Dichloropropene	6.409	75	139508	9.026	ppbv	89

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042925\
 Data File : VL042436.D
 Acq On : 29 Apr 2025 08:39
 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 04/30/2025
 Supervised By :Mahesh Dadoda 04/30/2025

Quant Time: Apr 30 01:15:51 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

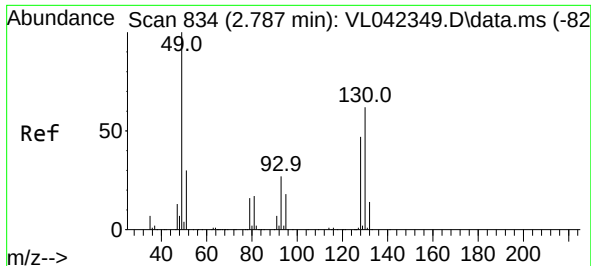
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Fri Apr 18 02:14:00 2025

Response via : Initial Calibration

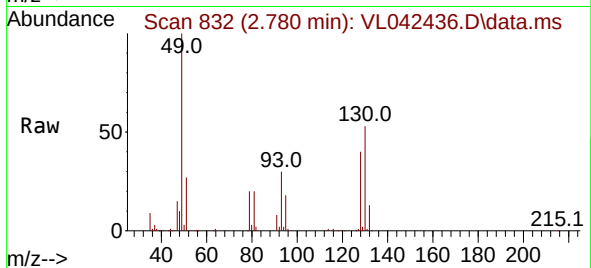
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.587	75	169355	8.953	ppbv	90
47) 1,1,2-Trichloroethane	6.570	97	129223m	10.138	ppbv	
48) Dibromochloromethane	7.380	129	232818	10.339	ppbv	100
49) Bromoform	9.477	173	188896	9.593	ppbv	99
50) 4-Methyl-2-Pentanone	5.742	43	325855	7.965	ppbv	99
51) 2-Hexanone	7.428	43	269915	7.357	ppbv #	93
52) Tetrachloroethene	8.218	164	101642	7.833	ppbv #	84
53) Toluene	6.926	91	361317	8.968	ppbv	100
54) 1,2-Dibromoethane	7.645	107	179895	9.861	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.917	131	182759	11.184	ppbv	95
57) Chlorobenzene	8.920	112	283210	10.086	ppbv	97
58) Ethyl Benzene	9.351	91	536634	10.032	ppbv	96
59) m/p-Xylene	9.529	91	909704m	21.110	ppbv	
60) o-Xylene	9.959	91	463713	10.686	ppbv	96
61) Styrene	9.869	104	195813	9.454	ppbv	98
62) Isopropylbenzene	10.535	105	672630	10.558	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.959	83	272746	9.699	ppbv	99
64) n-propylbenzene	10.985	120	160736	10.037	ppbv	90
65) tert-Butylbenzene	11.529	119	616872	10.535	ppbv	98
66) Benzyl Chloride	11.613	91	49841	7.746	ppbv	98
67) sec-Butylbenzene	11.765	105	869595	10.677	ppbv	99
69) p-Isopropyltoluene	11.924	119	738863	10.442	ppbv	96
70) n-Butylbenzene	12.280	91	787717	10.688	ppbv	98
71) 2-Chlorotoluene	10.898	91	528205	10.571	ppbv	96
72) 4-Ethyltoluene	11.121	105	559285	10.542	ppbv	96
73) 1,3,5-Trimethylbenzene	11.199	105	493949	10.546	ppbv	93
74) 1,2,4-Trimethylbenzene	11.535	105	554136	10.130	ppbv	96
75) 1,3-Dichlorobenzene	11.603	146	285025	10.024	ppbv	97
76) 1,4-Dichlorobenzene	11.668	146	291795	10.210	ppbv	98
77) 1,2-Dichlorobenzene	11.943	146	283700	10.261	ppbv	97
78) Hexachloro-1,3-Butadiene	13.879	225	263477	9.437	ppbv	99
79) Naphthalene	13.510	128	615408	9.408	ppbv	99
80) Naphthalene,2-methyl-	14.455	142	316788	8.497	ppbv	96
81) 1,2,4-Trichlorobenzene	13.439	180	263006	9.363	ppbv	98

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.780 min Scan# 81
Delta R.T. -0.007 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

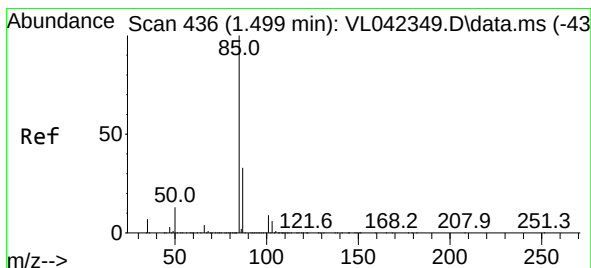
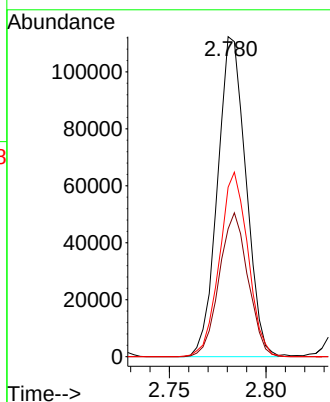
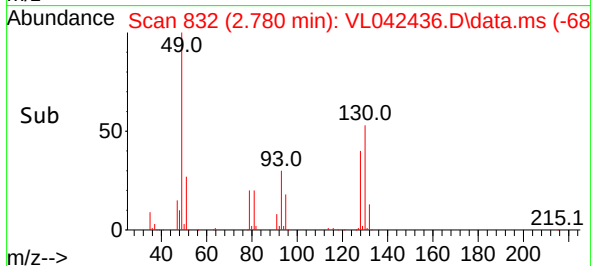
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



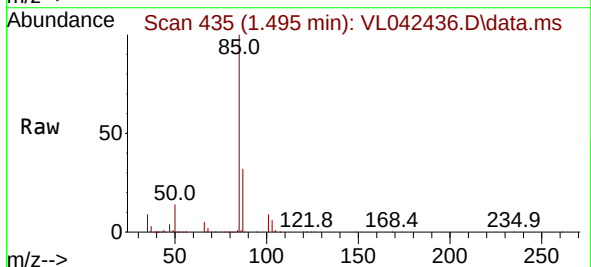
Tgt Ion: 49 Resp: 11455
Ion Ratio Lower Upper
49 100
128 45.3 22.8 68.4
130 57.8 29.3 88.0

Manual Integrations
APPROVED

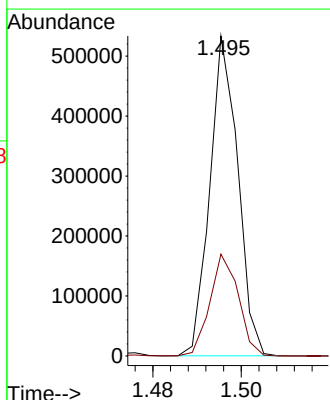
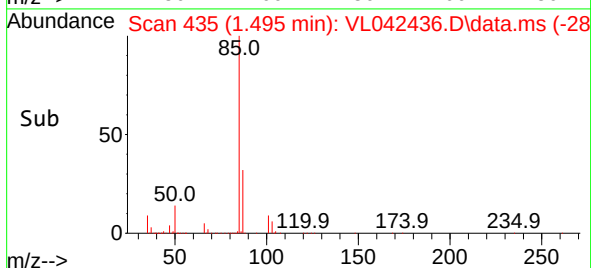
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

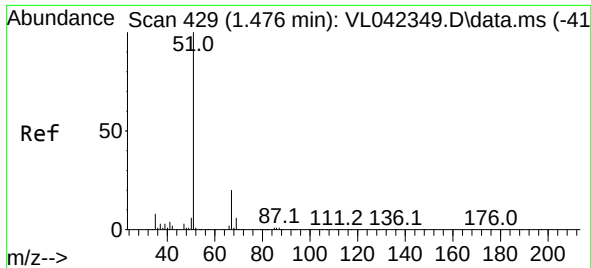


#2
Dichlorodifluoromethane
Concen: 11.603 ppbv
RT: 1.495 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39



Tgt Ion: 85 Resp: 234841
Ion Ratio Lower Upper
85 100
87 31.8 26.6 39.8





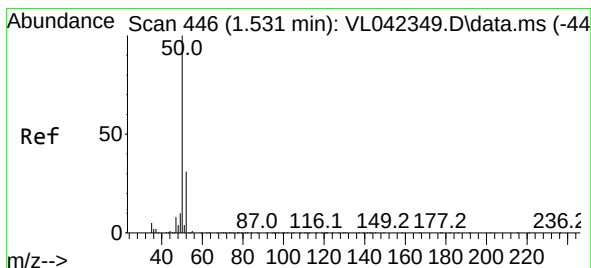
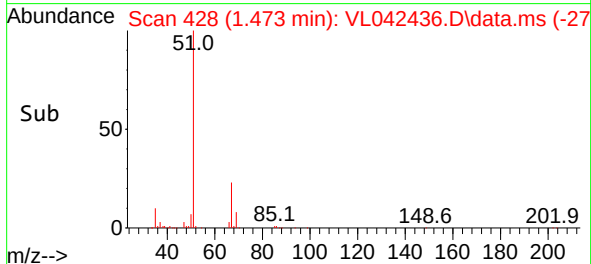
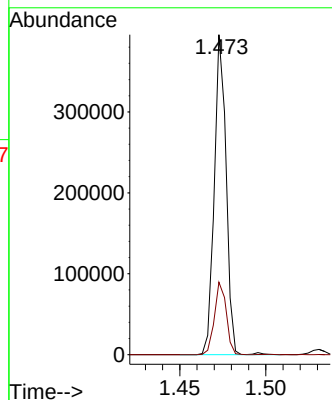
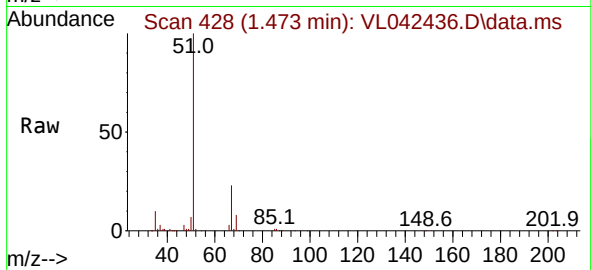
#3
Chlorodifluoromethane
Concen: 9.755 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 51 Resp: 18800
Ion Ratio Lower Upper
51 100
67 22.8 16.2 24.4

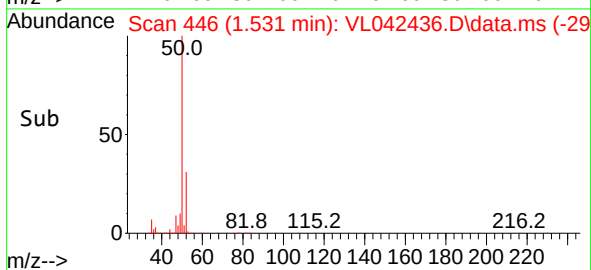
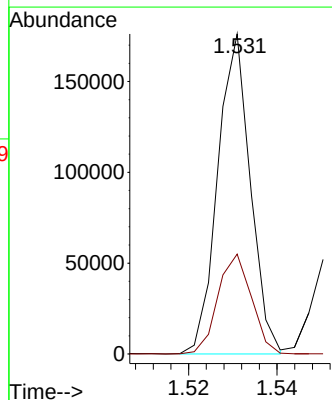
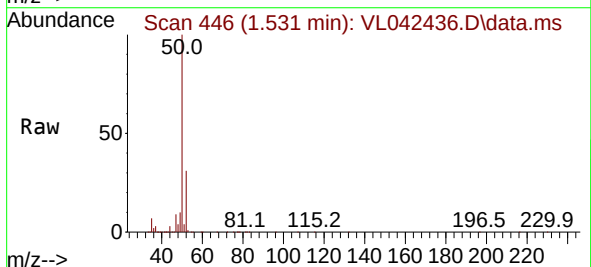
Manual Integrations
APPROVED

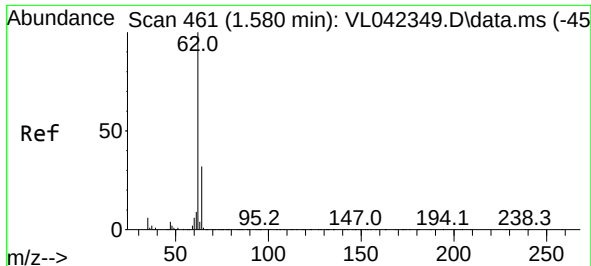
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025



#4
Chloromethane
Concen: 11.274 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 50 Resp: 90298
Ion Ratio Lower Upper
50 100
52 31.2 24.7 37.1





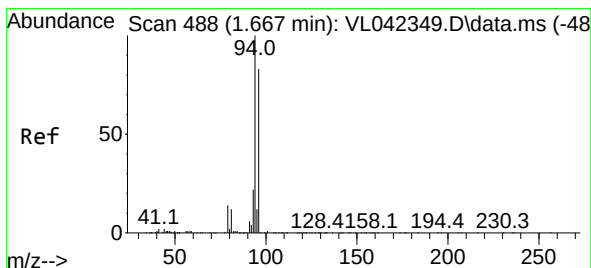
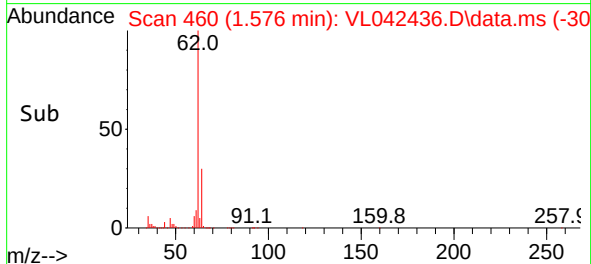
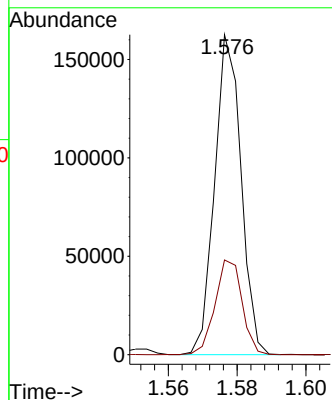
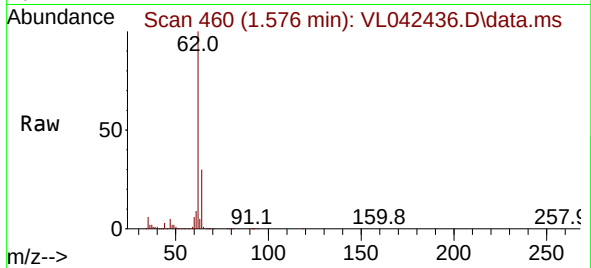
#5
 Vinyl Chloride
 Concen: 9.933 ppbv
 RT: 1.576 min Scan# 460
 Delta R.T. -0.003 min
 Lab File: VL042436.D
 Acq: 29 Apr 2025 08:39

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tgt Ion: 62 Resp: 8660
 Ion Ratio Lower Upper
 62 100
 64 29.6 25.4 38.0

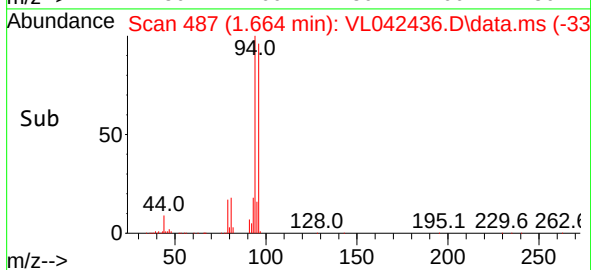
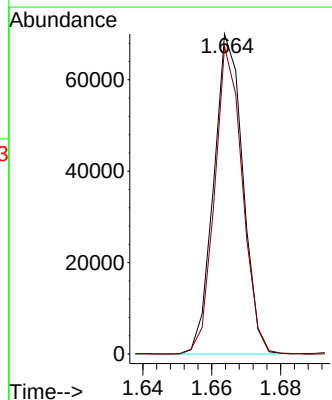
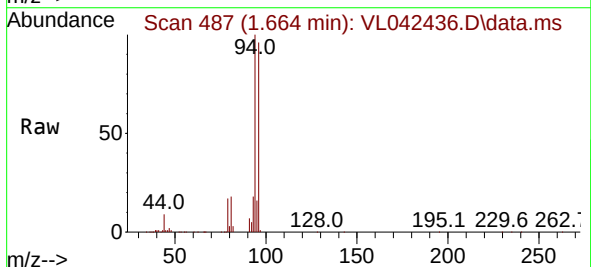
Manual Integrations
 APPROVED

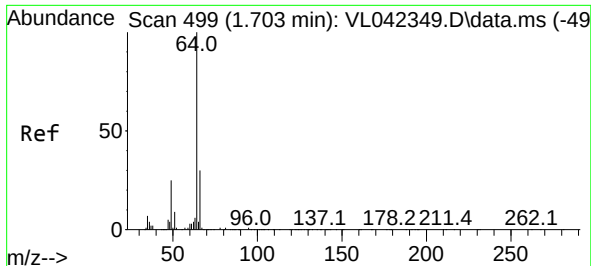
Reviewed By :Semsettin Yesilyurt 04/30/2025
 Supervised By :Mahesh Dadoda 04/30/2025



#6
 Bromomethane
 Concen: 10.952 ppbv
 RT: 1.664 min Scan# 487
 Delta R.T. -0.003 min
 Lab File: VL042436.D
 Acq: 29 Apr 2025 08:39

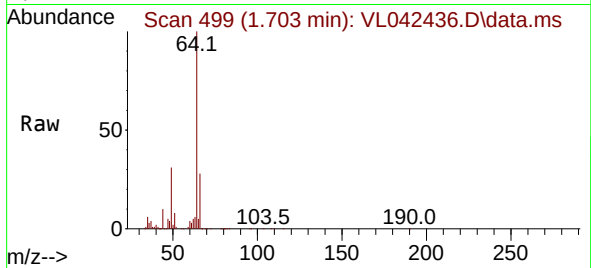
Tgt Ion: 94 Resp: 41020
 Ion Ratio Lower Upper
 94 100
 96 95.9 66.2 99.2





#7
Chloroethane
Concen: 11.153 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

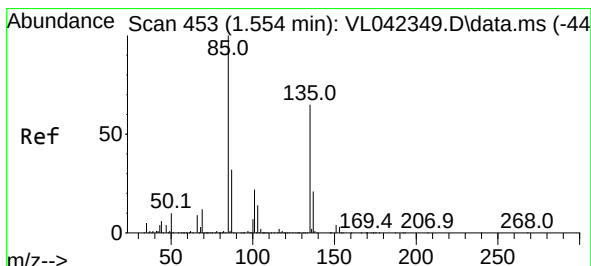
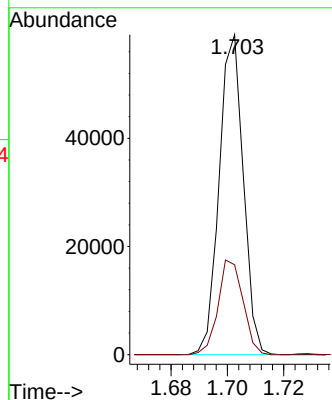
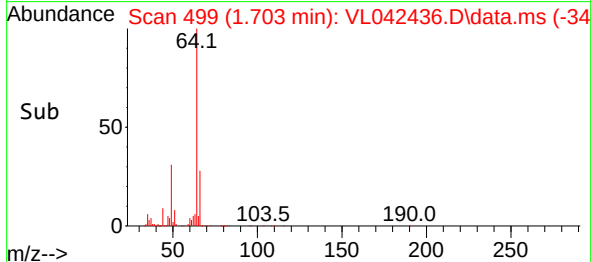
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



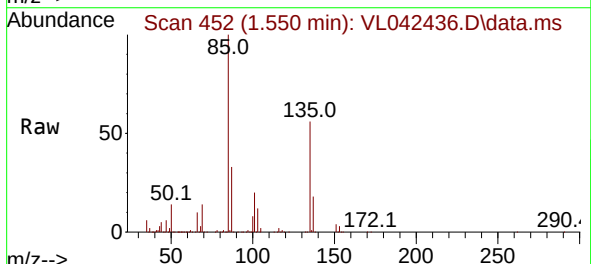
Tgt Ion: 64 Resp: 3516
Ion Ratio Lower Upper
64 100
66 28.1 24.6 37.0

Manual Integrations
APPROVED

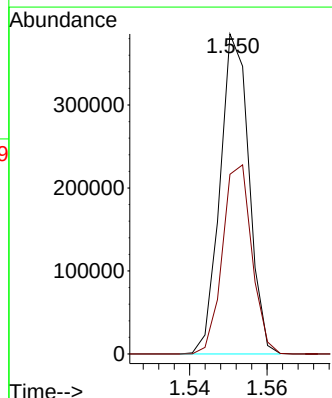
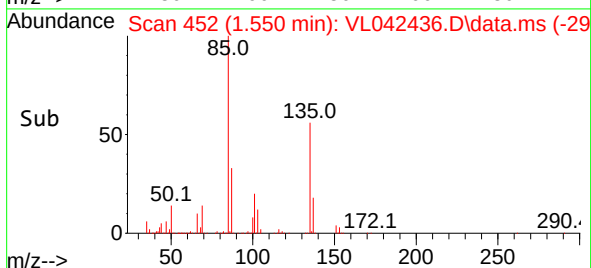
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

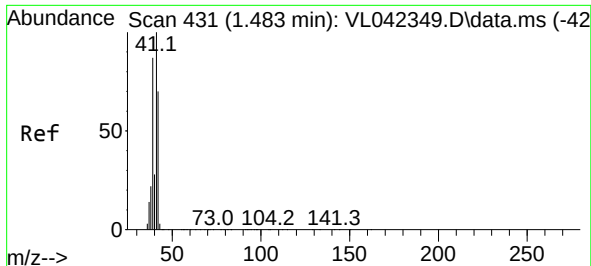


#8
Dichlorotetrafluoroethane
Concen: 11.508 ppbv
RT: 1.550 min Scan# 452
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39



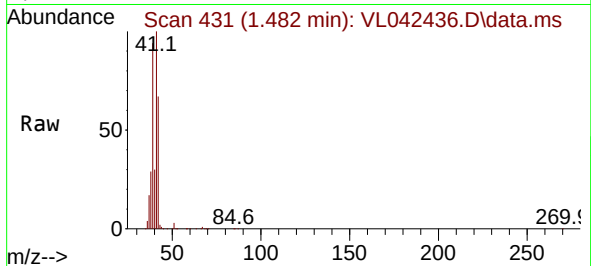
Tgt Ion: 85 Resp: 199977
Ion Ratio Lower Upper
85 100
135 60.1 52.2 78.2





#9
 Propene
 Concen: 7.883 ppbv
 RT: 1.482 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL042436.D
 Acq: 29 Apr 2025 08:39

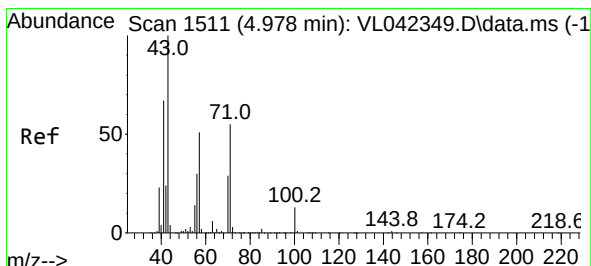
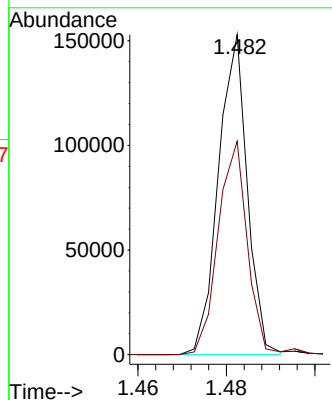
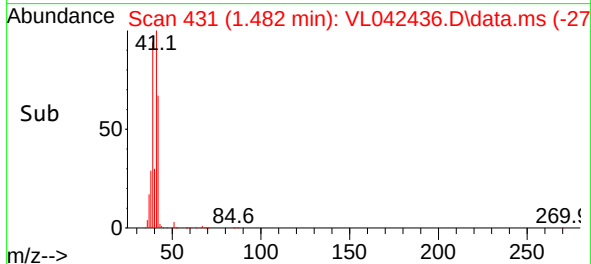
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



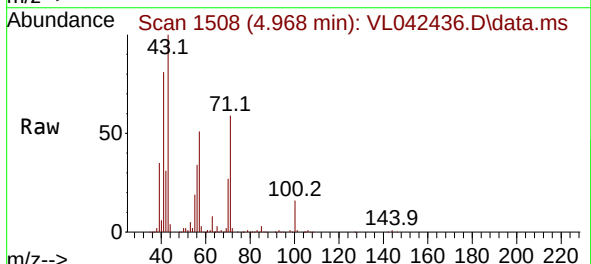
Tgt Ion: 41 Resp: 69189
 Ion Ratio Lower Upper
 41 100
 42 68.7 56.2 84.4

Manual Integrations
 APPROVED

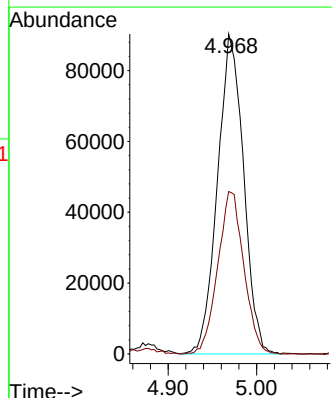
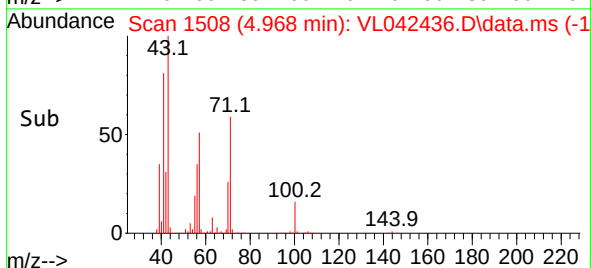
Reviewed By :Semsettin Yesilyurt 04/30/2025
 Supervised By :Mahesh Dadoda 04/30/2025

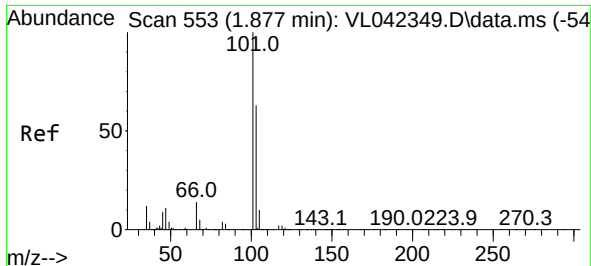


#10
 Heptane
 Concen: 7.492 ppbv
 RT: 4.968 min Scan# 1508
 Delta R.T. -0.010 min
 Lab File: VL042436.D
 Acq: 29 Apr 2025 08:39



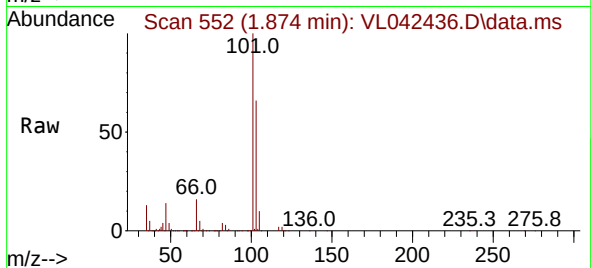
Tgt Ion: 43 Resp: 184737
 Ion Ratio Lower Upper
 43 100
 57 50.9 39.9 59.9





#11
Trichlorofluoromethane
Concen: 11.845 ppbv
RT: 1.874 min Scan# 511
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

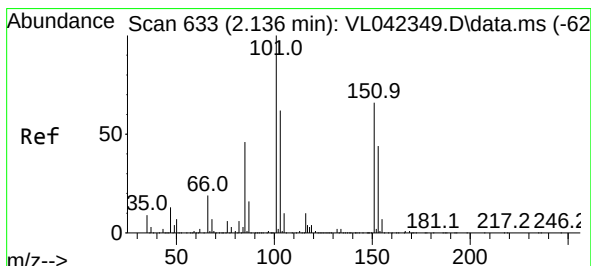
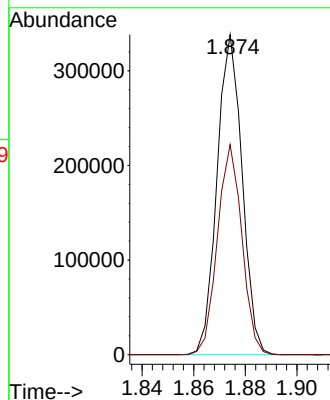
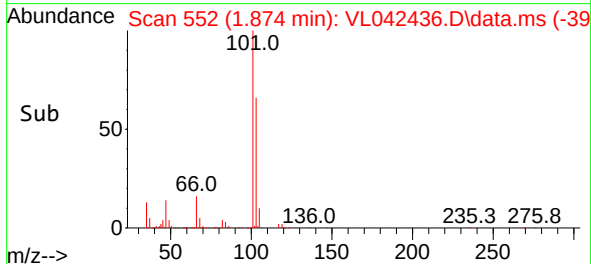
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



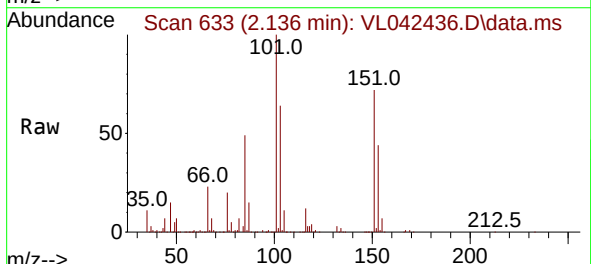
Tgt Ion:101 Resp: 227979
Ion Ratio Lower Upper
101 100
103 65.6 50.1 75.1

Manual Integrations
APPROVED

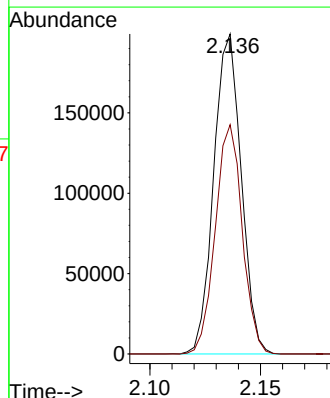
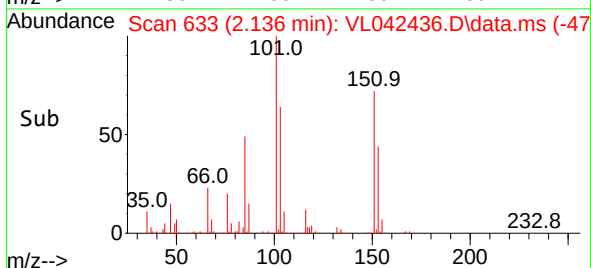
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

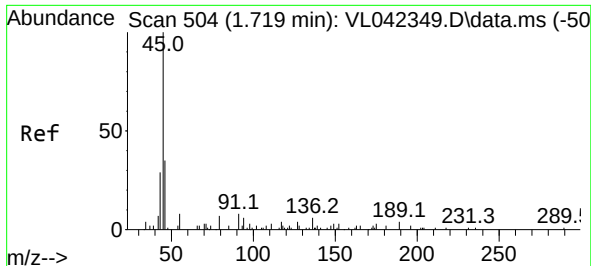


#12
1,1,2-Trichlorotrifluoroethane
Concen: 10.934 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.000 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39



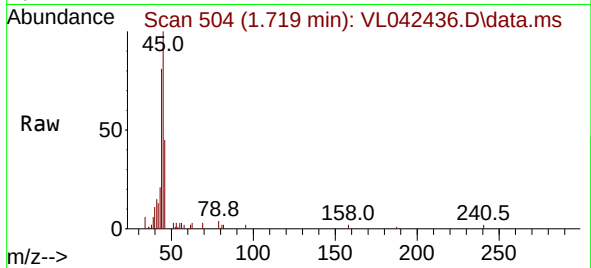
Tgt Ion:101 Resp: 172070
Ion Ratio Lower Upper
101 100
151 70.1 57.0 85.6





#13
Ethanol
Concen: 3.108 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

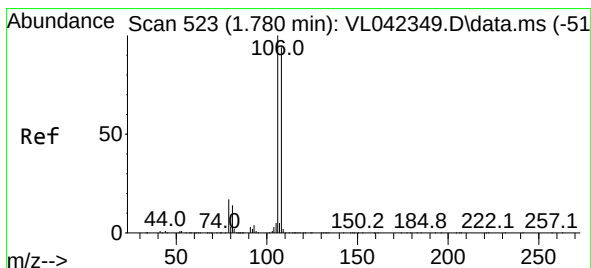
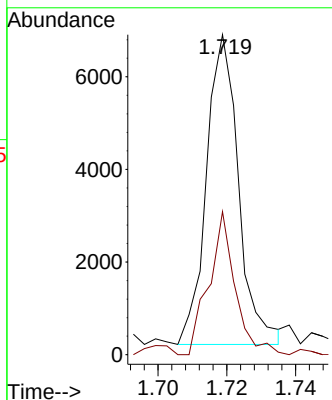
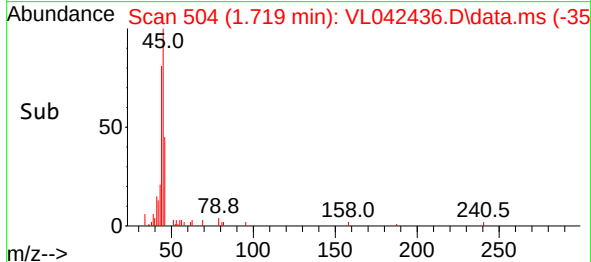
Instrument : MSVOA_L
ClientSampleId : VSTDCCC010



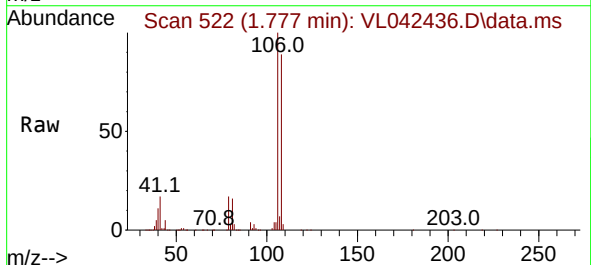
Tgt Ion: 45 Resp: 4330
Ion Ratio Lower Upper
45 100
46 41.1 21.9 87.7

Manual Integrations
APPROVED

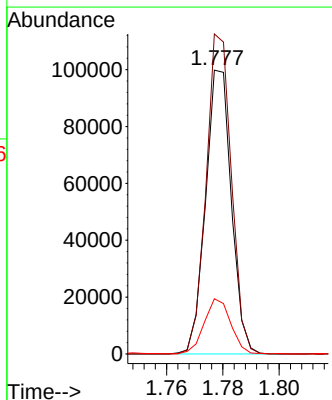
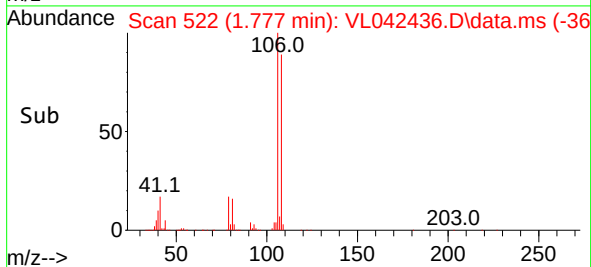
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

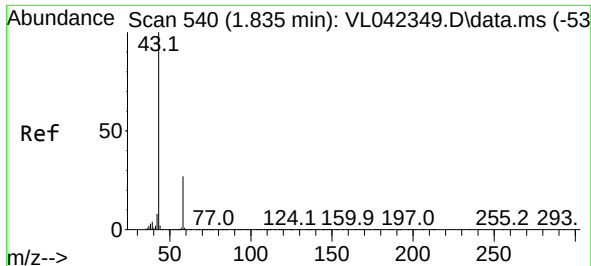


#14
Bromoethene
Concen: 10.721 ppbv
RT: 1.777 min Scan# 522
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39



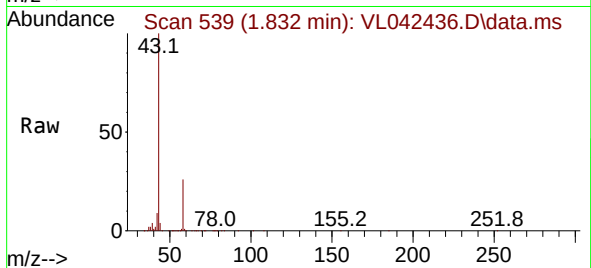
Tgt Ion:108 Resp: 63597
Ion Ratio Lower Upper
108 100
106 110.4 85.9 128.9
79 20.1 13.9 20.9





#15
Acetone
Concen: 9.859 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

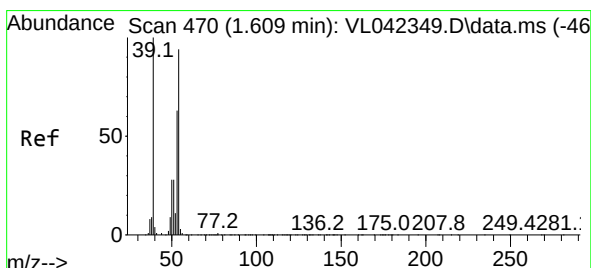
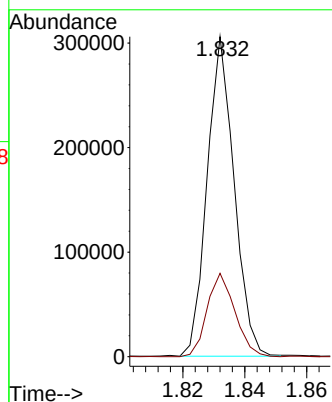
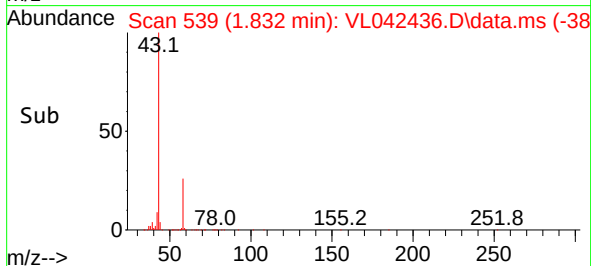
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



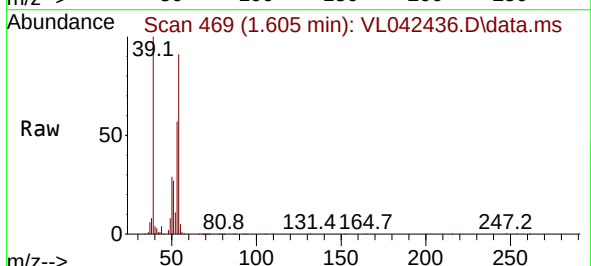
Tgt Ion: 43 Resp: 18488
Ion Ratio Lower Upper
43 100
58 27.0 22.4 33.6

Manual Integrations
APPROVED

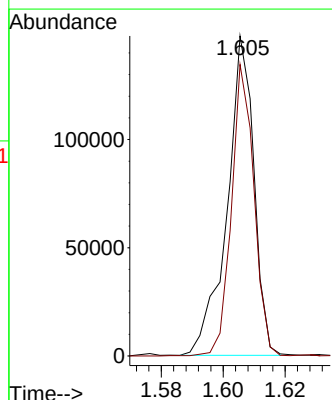
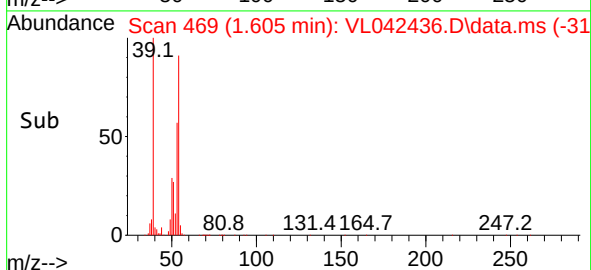
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

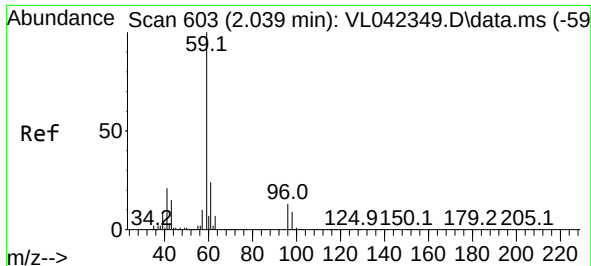


#16
1,3-Butadiene
Concen: 9.910 ppbv
RT: 1.605 min Scan# 469
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39



Tgt Ion: 39 Resp: 88889
Ion Ratio Lower Upper
39 100
54 76.7 64.9 97.3





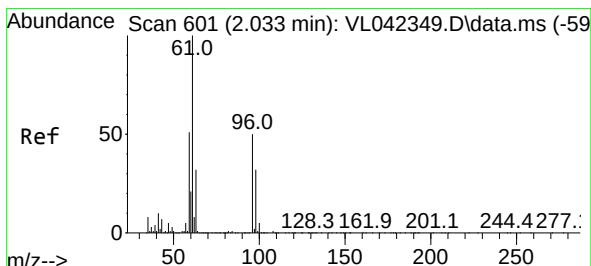
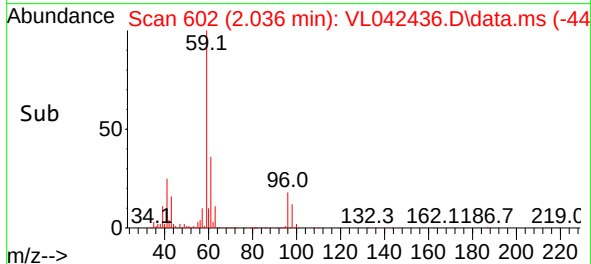
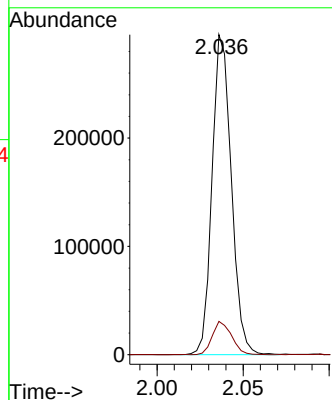
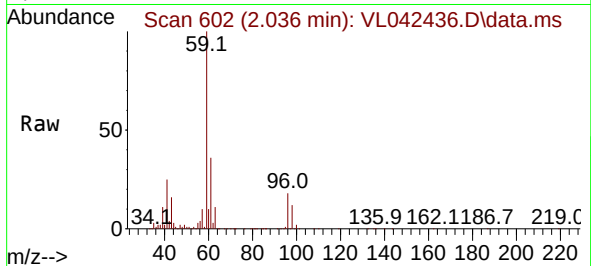
#17
tert-Butyl alcohol
Concen: 9.881 ppbv
RT: 2.036 min Scan# 603
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 59 Resp: 22962
Ion Ratio Lower Upper
59 100
57 10.4 8.7 13.1

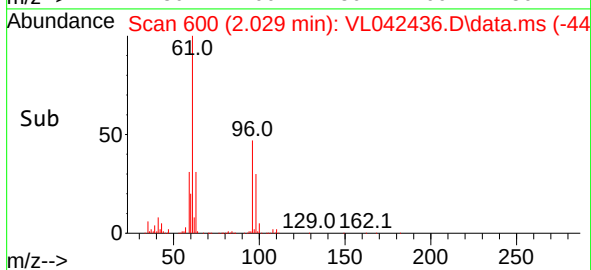
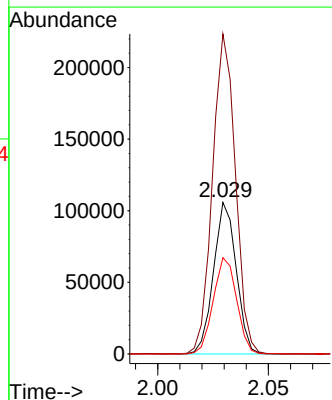
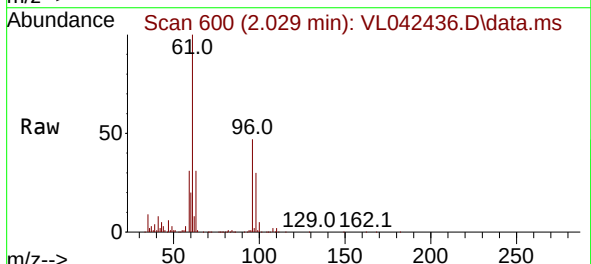
Manual Integrations
APPROVED

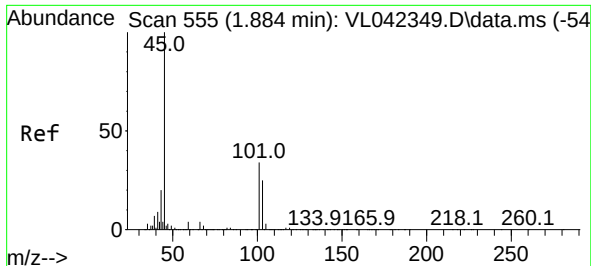
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025



#18
1,1-Dichloroethene
Concen: 10.263 ppbv
RT: 2.029 min Scan# 600
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

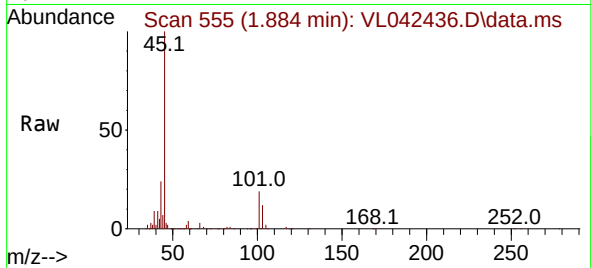
Tgt Ion: 96 Resp: 75451
Ion Ratio Lower Upper
96 100
61 211.2 160.2 240.2
98 63.6 51.0 76.4





#19
Isopropyl Alcohol
Concen: 9.790 ppbv
RT: 1.884 min Scan# 519
Delta R.T. -0.000 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

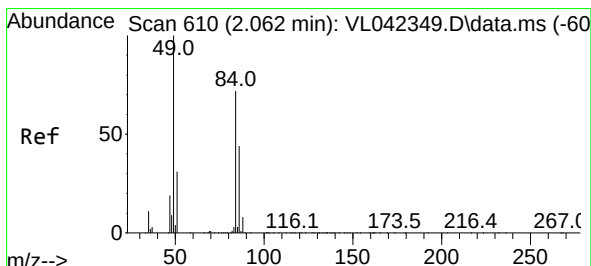
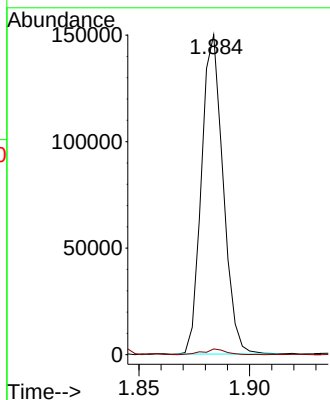
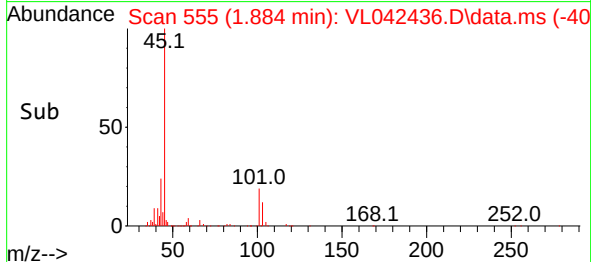
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



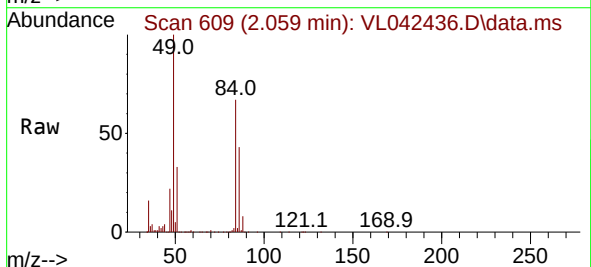
Tgt Ion: 45 Resp: 101985
Ion Ratio Lower Upper
45 100
58 49.0 34.5 51.7

Manual Integrations
APPROVED

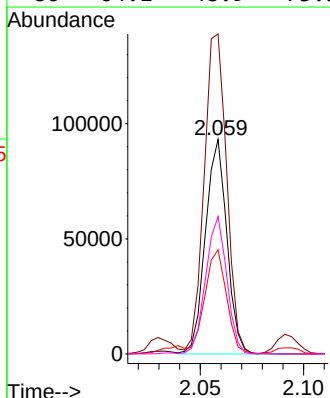
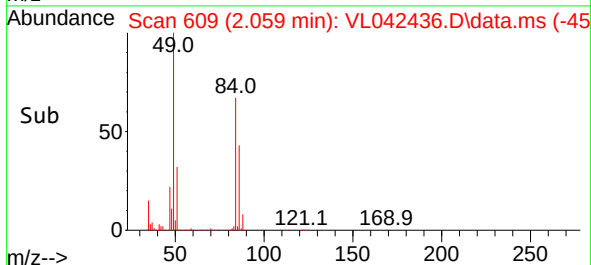
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

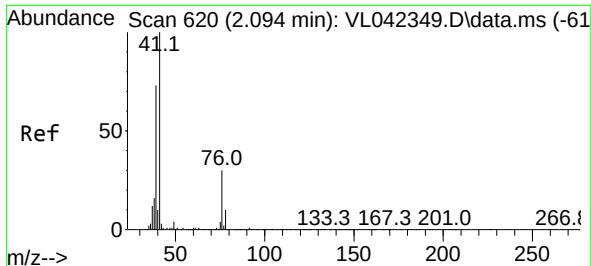


#20
Methylene Chloride
Concen: 9.161 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39



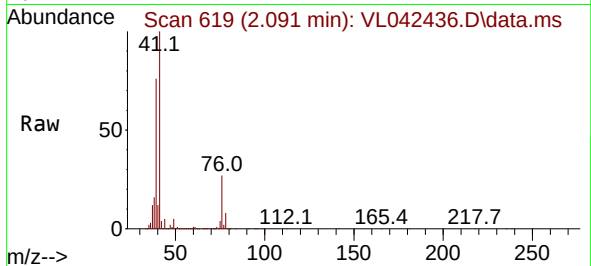
Tgt Ion: 84 Resp: 67278
Ion Ratio Lower Upper
84 100
49 146.9 111.6 167.4
51 45.9 35.1 52.7
86 64.1 48.9 73.3





#21
 Allyl Chloride
 Concen: 10.184 ppbv
 RT: 2.091 min Scan# 619
 Delta R.T. -0.003 min
 Lab File: VL042436.D
 Acq: 29 Apr 2025 08:39

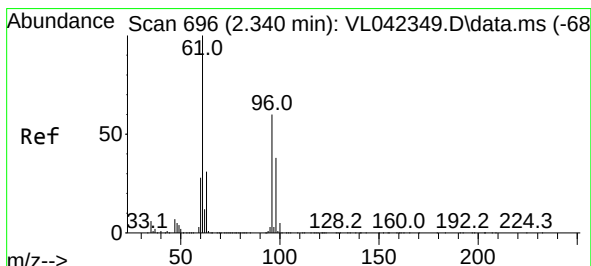
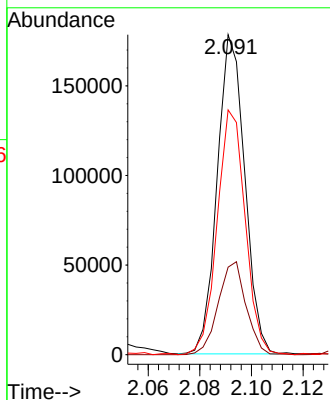
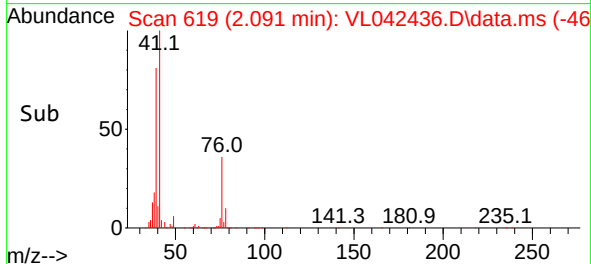
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



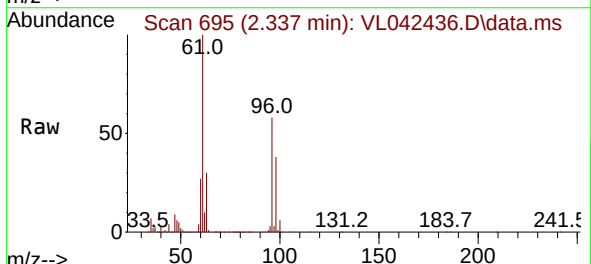
Tgt Ion: 41 Resp: 131864
 Ion Ratio Lower Upper
 41 100
 76 29.4 24.8 37.2
 39 77.4 60.6 90.8

Manual Integrations
 APPROVED

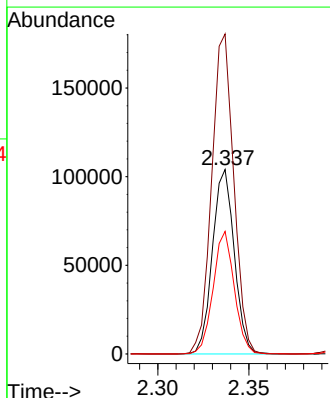
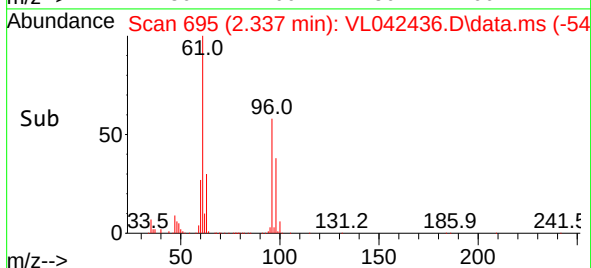
Reviewed By :Semsettin Yesilyurt 04/30/2025
 Supervised By :Mahesh Dadoda 04/30/2025

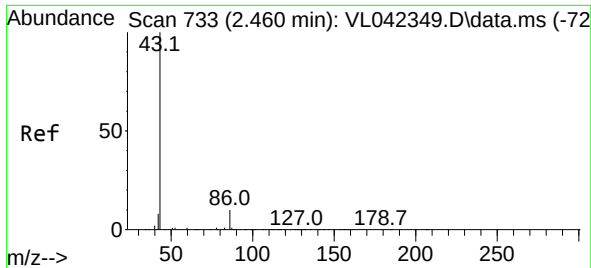


#22
 trans-1,2-Dichloroethene
 Concen: 10.343 ppbv
 RT: 2.337 min Scan# 695
 Delta R.T. -0.003 min
 Lab File: VL042436.D
 Acq: 29 Apr 2025 08:39



Tgt Ion: 96 Resp: 86577
 Ion Ratio Lower Upper
 96 100
 61 173.4 133.7 200.5
 98 66.4 50.3 75.5





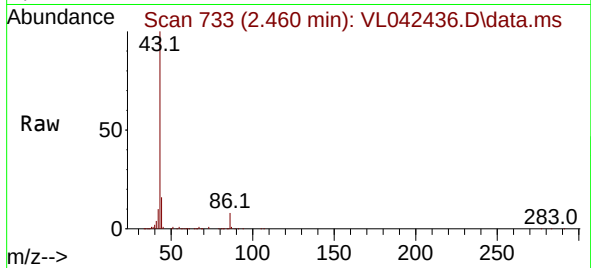
#23
 Vinyl Acetate
 Concen: 8.115 ppbv
 RT: 2.460 min Scan# 716
 Delta R.T. -0.000 min
 Lab File: VL042436.D
 Acq: 29 Apr 2025 08:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

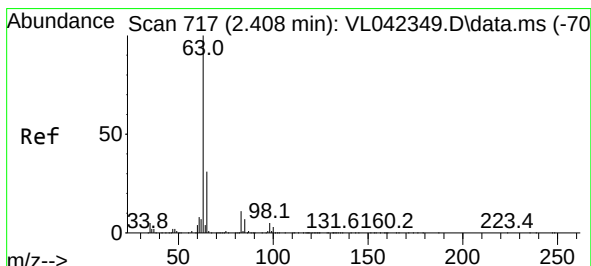
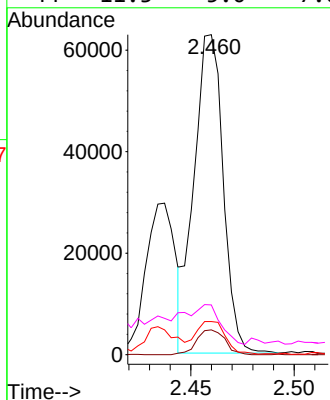
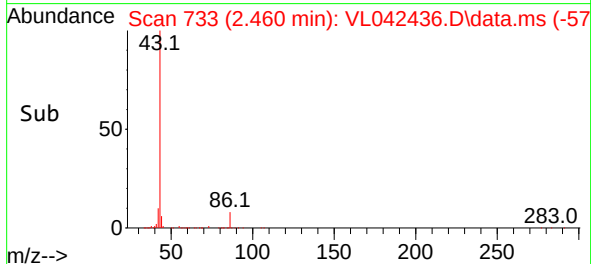


Tgt Ion: 43 Resp: 6160
 Ion Ratio Lower Upper
 43 100
 86 7.6 6.5 9.7
 42 10.2 7.8 11.8
 44 11.3 5.0 7.6#

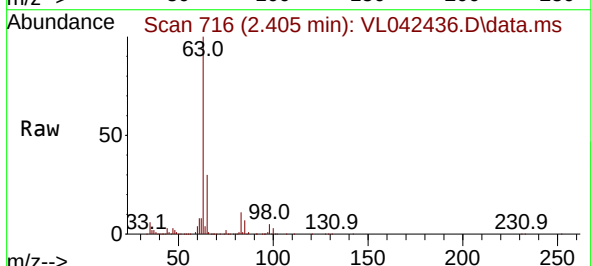
Manual Integrations

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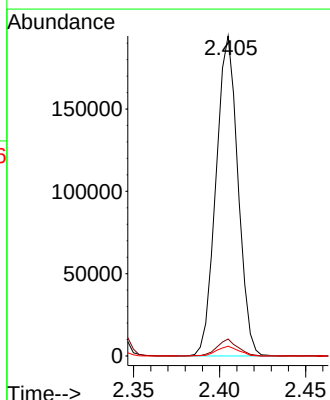
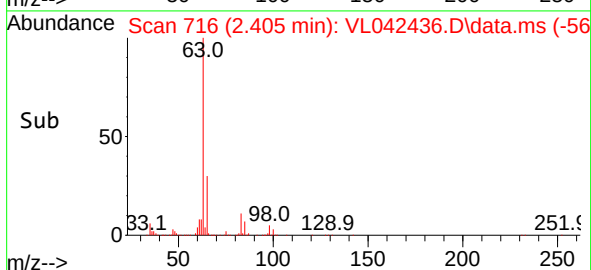
Reviewed By :Semsettin Yesilyurt 04/30/2025
 Supervised By :Mahesh Dadoda 04/30/2025

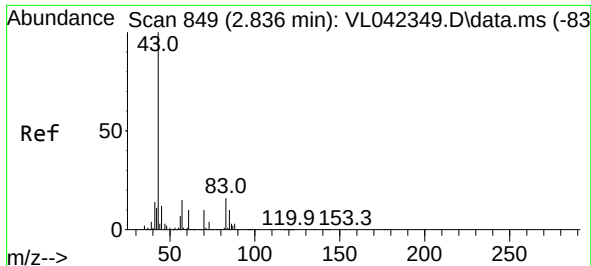


#24
 1,1-Dichloroethane
 Concen: 10.852 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. -0.003 min
 Lab File: VL042436.D
 Acq: 29 Apr 2025 08:39



Tgt Ion: 63 Resp: 172555
 Ion Ratio Lower Upper
 63 100
 98 5.3 2.3 6.8
 100 3.0 1.6 4.8





#25

Ethyl Acetate

Concen: 8.840 ppbv

RT: 2.832 min Scan# 84

Delta R.T. -0.003 min

Lab File: VL042436.D

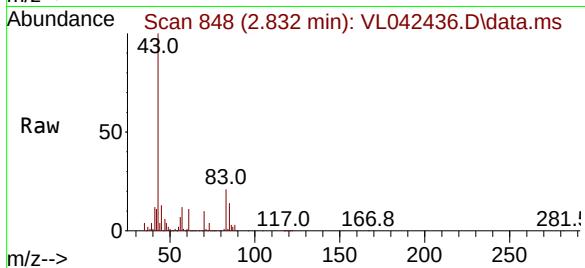
Acq: 29 Apr 2025 08:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010



Tgt Ion: 43 Resp: 408744

Ion Ratio Lower Upper

43 100

45 10.5 8.3 12.5

61 8.9 7.3 10.9

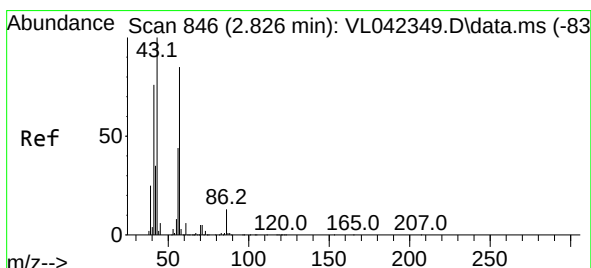
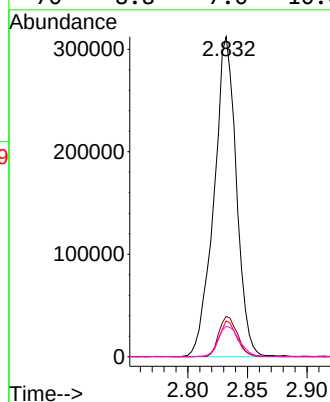
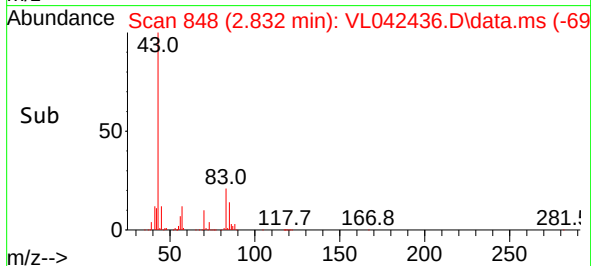
70 8.8 7.0 10.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/30/2025

Supervised By :Mahesh Dadoda 04/30/2025



#26

Hexane

Concen: 8.220 ppbv

RT: 2.819 min Scan# 844

Delta R.T. -0.007 min

Lab File: VL042436.D

Acq: 29 Apr 2025 08:39

Tgt Ion: 57 Resp: 153801

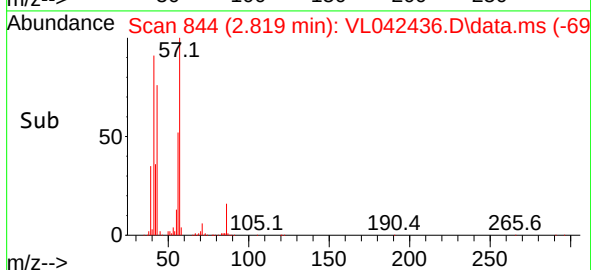
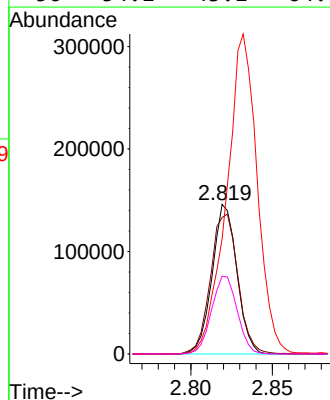
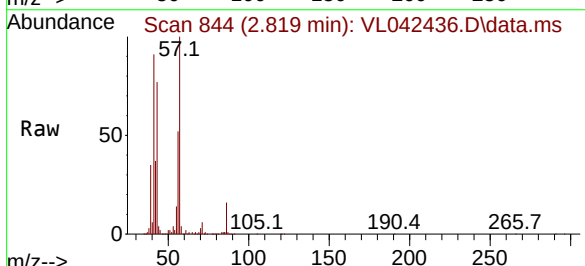
Ion Ratio Lower Upper

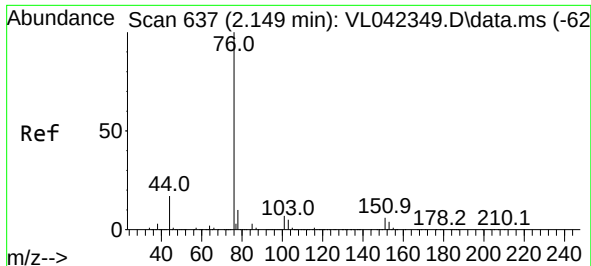
57 100

41 104.3 77.9 116.9

43 266.3 208.4 312.6

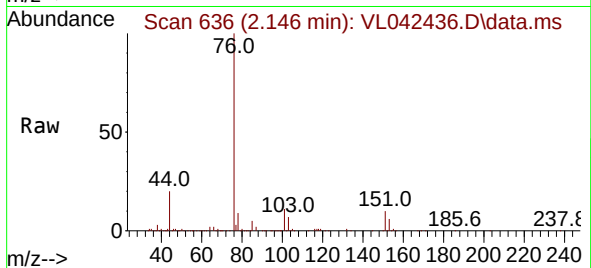
56 54.1 43.1 64.7





#27
Carbon Disulfide
Concen: 10.622 ppbv
RT: 2.146 min Scan# 611
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

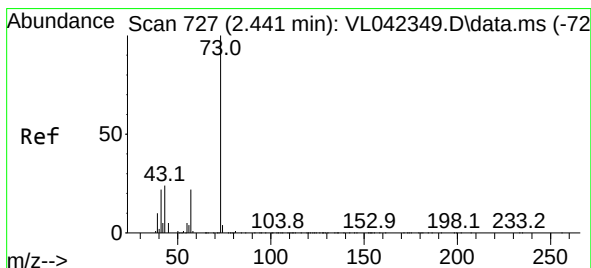
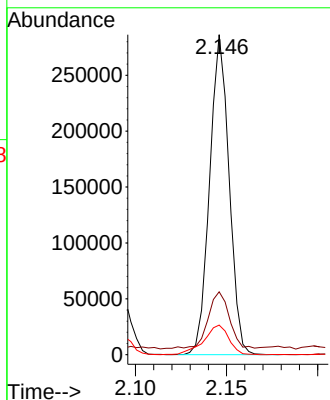
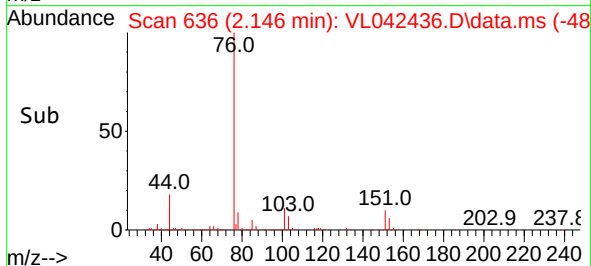
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion: 76 Resp: 21279
Ion Ratio Lower Upper
76 100
44 18.9 15.5 23.3
78 11.9 9.3 13.9

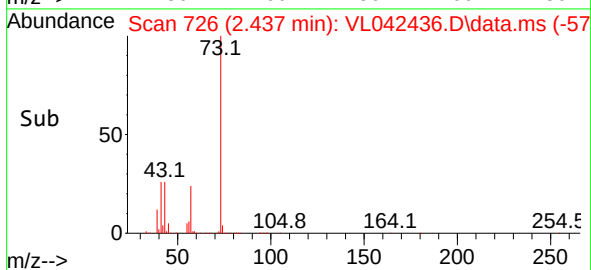
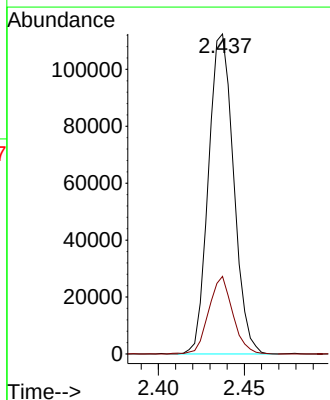
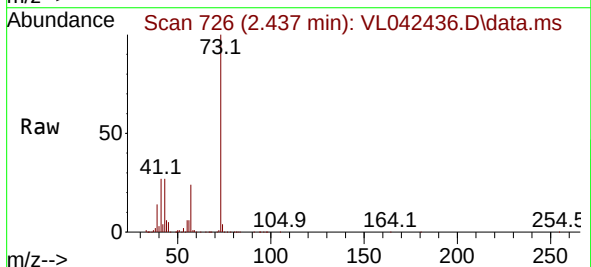
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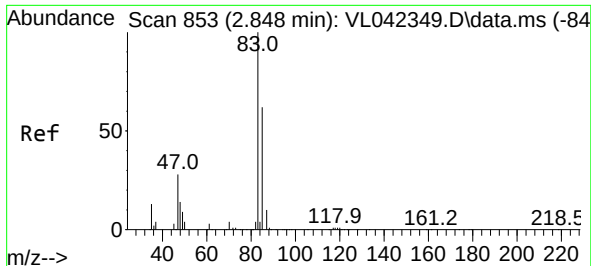
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025



#28
Methyl tert-Butyl Ether
Concen: 9.308 ppbv
RT: 2.437 min Scan# 726
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

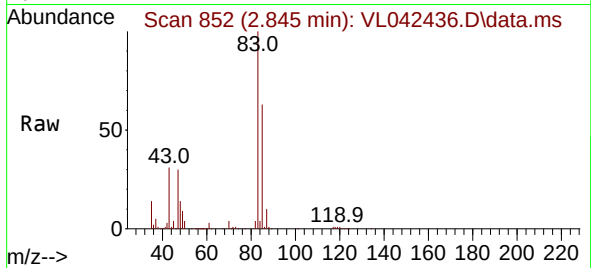
Tgt Ion: 73 Resp: 114108
Ion Ratio Lower Upper
73 100
57 23.1 21.3 31.9





#29
Chloroform
Concen: 11.002 ppbv
RT: 2.845 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

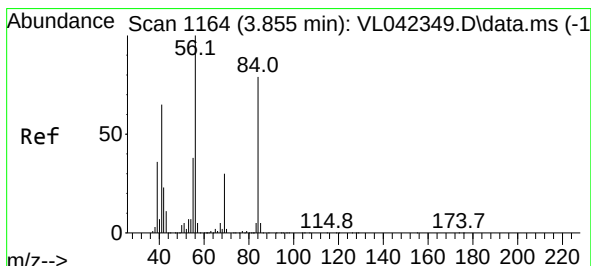
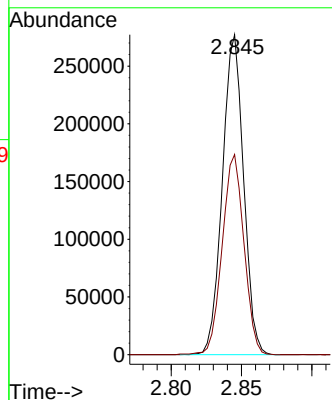
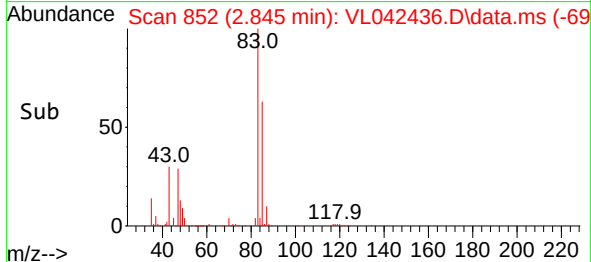
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion: 83 Resp: 29096
Ion Ratio Lower Upper
83 100
85 62.6 50.0 75.0

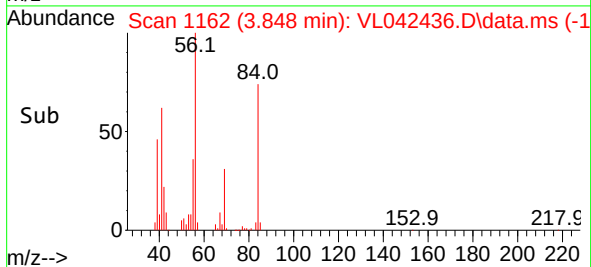
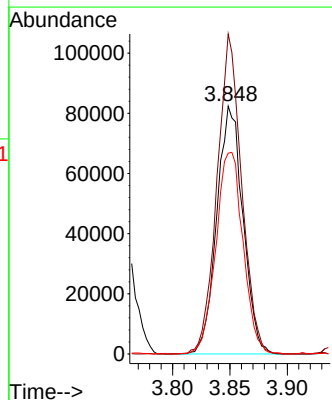
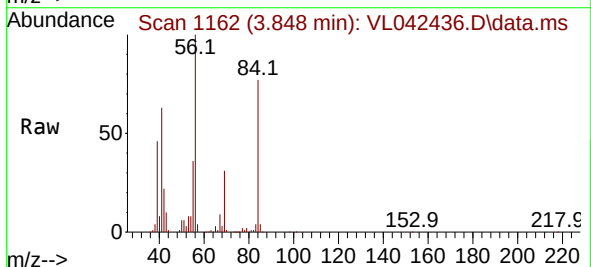
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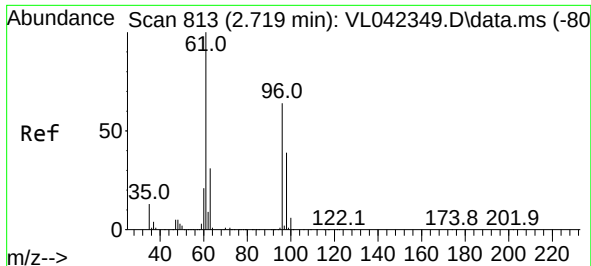
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025



#30
Cyclohexane
Concen: 8.635 ppbv
RT: 3.848 min Scan# 1162
Delta R.T. -0.007 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

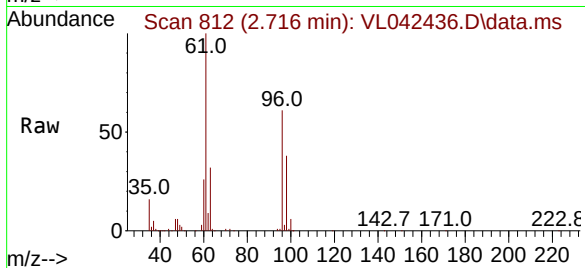
Tgt Ion: 84 Resp: 130608
Ion Ratio Lower Upper
84 100
56 121.2 101.0 151.4
41 84.8 67.4 101.0





#31
 cis-1,2-Dichloroethene
 Concen: 9.818 ppbv
 RT: 2.716 min Scan# 81
 Delta R.T. -0.003 min
 Lab File: VL042436.D
 Acq: 29 Apr 2025 08:39

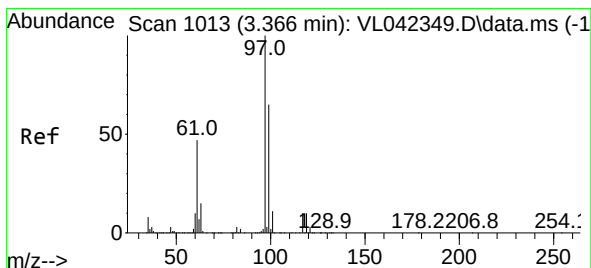
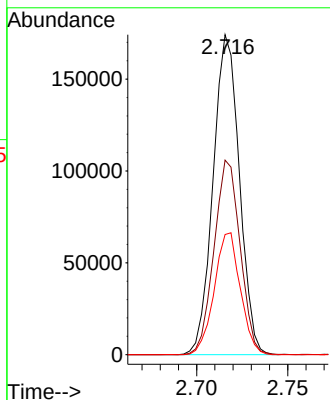
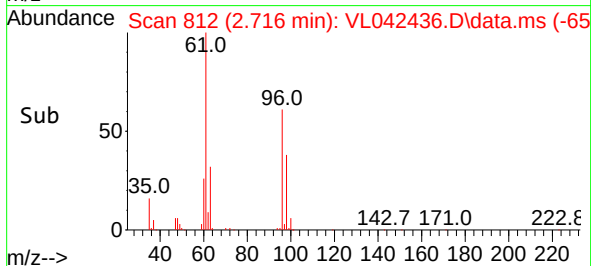
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



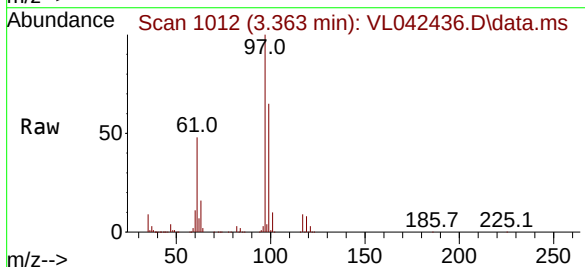
Tgt Ion: 61 Resp: 174659
 Ion Ratio Lower Upper
 61 100
 96 60.8 50.8 76.2
 98 37.6 30.9 46.3

Manual Integrations
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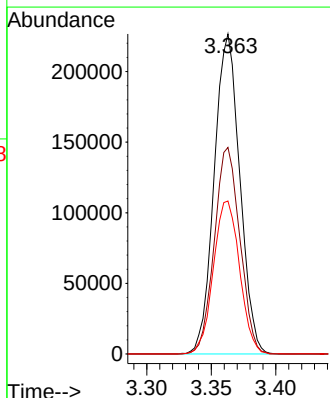
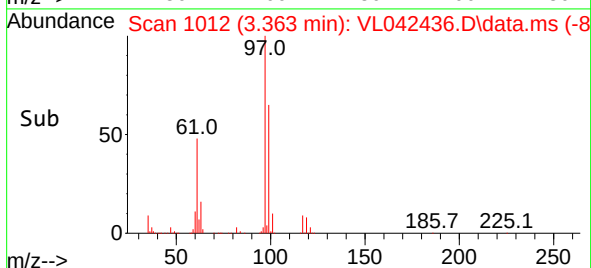
Reviewed By :Semsettin Yesilyurt 04/30/2025
 Supervised By :Mahesh Dadoda 04/30/2025

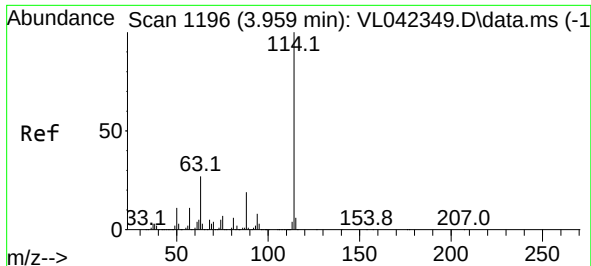


#32
 1,1,1-Trichloroethane
 Concen: 10.493 ppbv
 RT: 3.363 min Scan# 1012
 Delta R.T. -0.003 min
 Lab File: VL042436.D
 Acq: 29 Apr 2025 08:39



Tgt Ion: 97 Resp: 312430
 Ion Ratio Lower Upper
 97 100
 99 64.5 51.0 76.4
 61 49.1 38.8 58.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. -0.007 min

Lab File: VL042436.D

Acq: 29 Apr 2025 08:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion:114 Resp: 31126

Ion Ratio Lower Upper

114 100

63 28.3 21.8 32.6

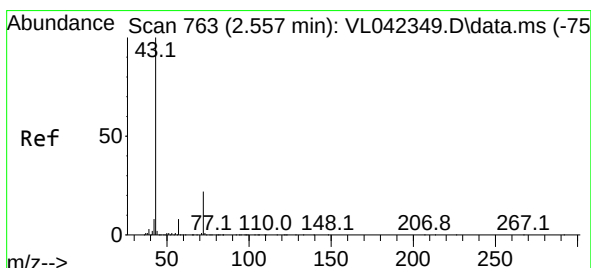
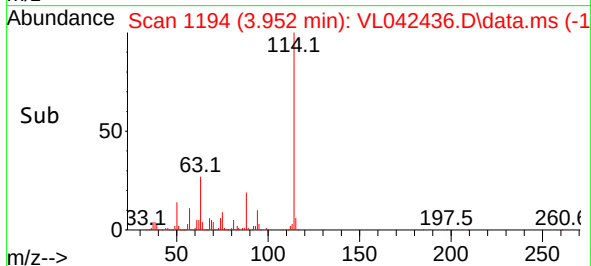
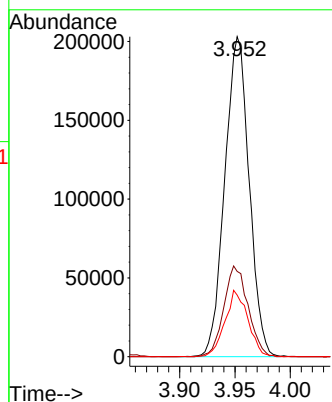
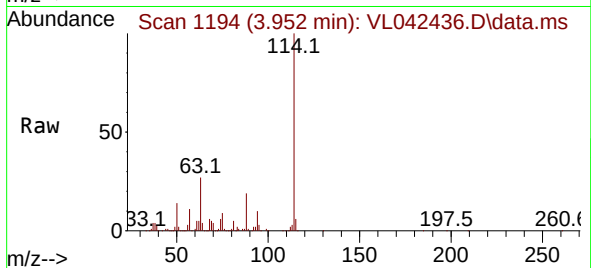
88 19.5 15.5 23.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/30/2025

Supervised By :Mahesh Dadoda 04/30/2025



#34

2-Butanone

Concen: 9.426 ppbv

RT: 2.554 min Scan# 762

Delta R.T. -0.003 min

Lab File: VL042436.D

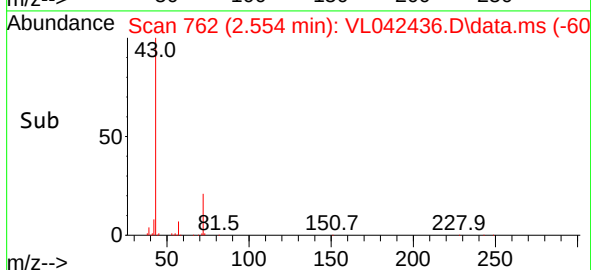
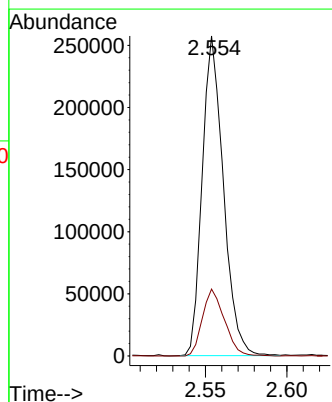
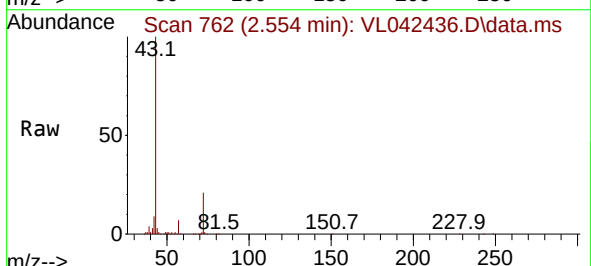
Acq: 29 Apr 2025 08:39

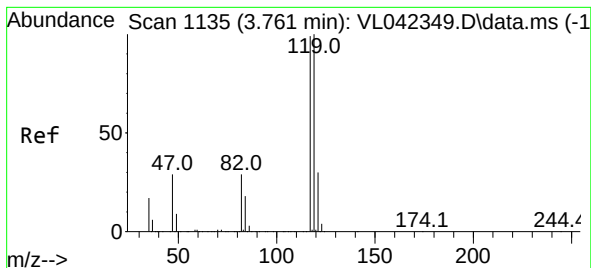
Tgt Ion: 43 Resp: 232034

Ion Ratio Lower Upper

43 100

72 21.8 18.2 27.2





#35

Carbon Tetrachloride

Concen: 11.242 ppbv

RT: 3.755 min Scan# 1135

Delta R.T. -0.007 min

Lab File: VL042436.D

Acq: 29 Apr 2025 08:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion:117 Resp: 316689

Ion Ratio Lower Upper

117 100

119 93.1 80.5 120.7

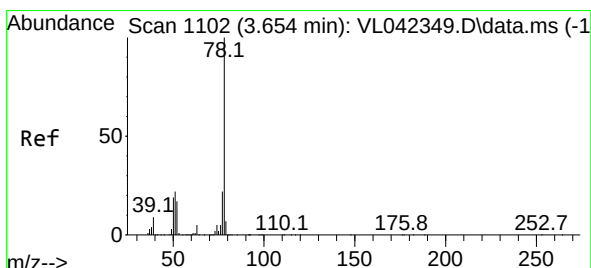
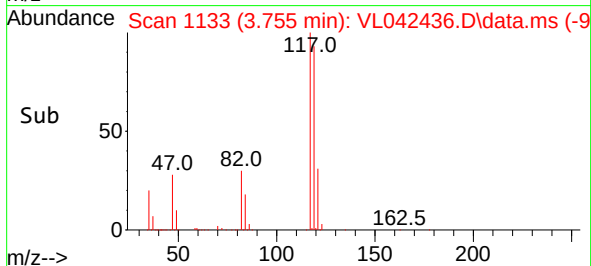
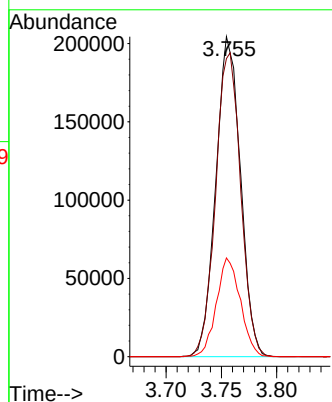
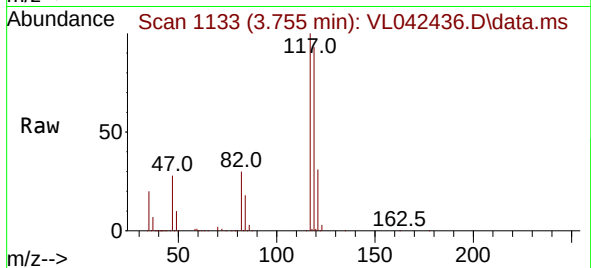
121 30.9 24.2 36.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/30/2025

Supervised By :Mahesh Dadoda 04/30/2025



#36

Benzene

Concen: 9.367 ppbv

RT: 3.651 min Scan# 1101

Delta R.T. -0.003 min

Lab File: VL042436.D

Acq: 29 Apr 2025 08:39

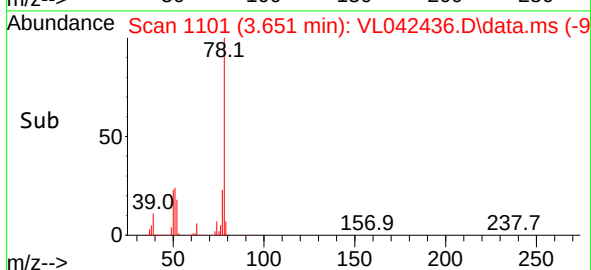
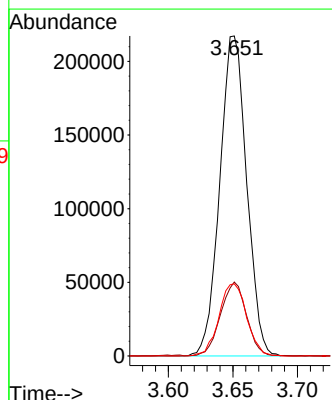
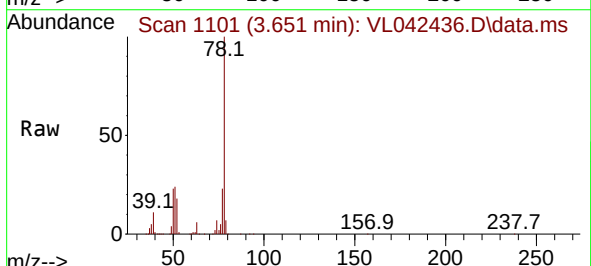
Tgt Ion: 78 Resp: 314493

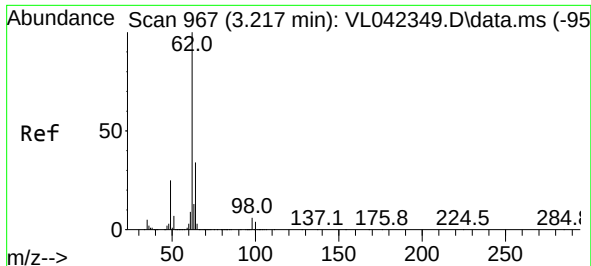
Ion Ratio Lower Upper

78 100

77 23.1 17.4 26.0

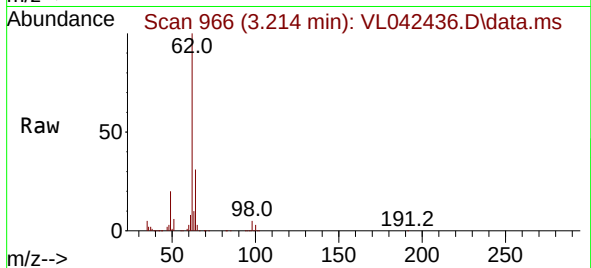
50 22.6 15.5 23.3





#37
1,2-Dichloroethane
Concen: 12.134 ppbv
RT: 3.214 min Scan# 966
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

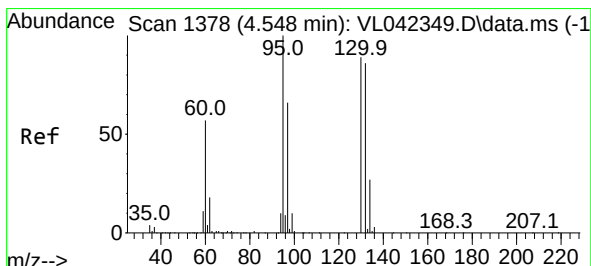
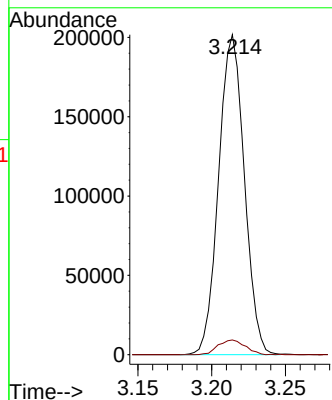
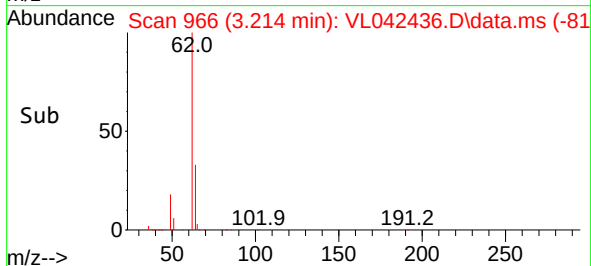
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



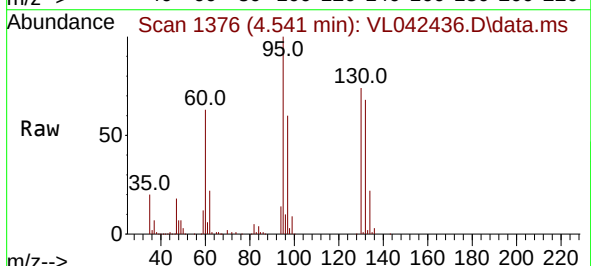
Tgt Ion: 62 Resp: 244510
Ion Ratio Lower Upper
62 100
98 4.9 5.1 7.7

Manual Integrations
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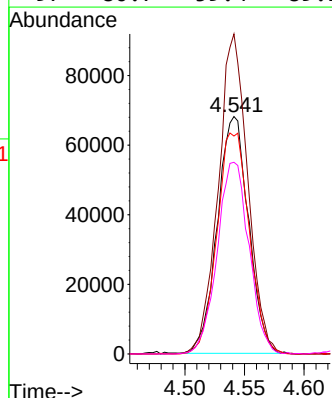
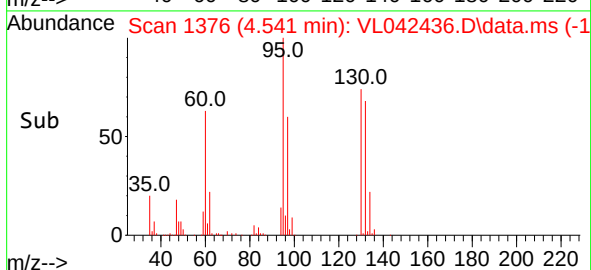
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

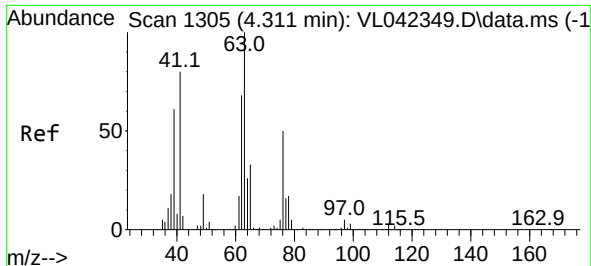


#38
Trichloroethene
Concen: 8.450 ppbv
RT: 4.541 min Scan# 1376
Delta R.T. -0.007 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39



Tgt Ion:130 Resp: 123997
Ion Ratio Lower Upper
130 100
95 134.8 89.8 134.6#
132 92.0 77.7 116.5
97 80.7 59.4 89.2





#39

1,2-Dichloropropane

Concen: 8.817 ppbv

RT: 4.305 min Scan# 11031

Delta R.T. -0.007 min

Lab File: VL042436.D

Acq: 29 Apr 2025 08:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 63 Resp: 11031

Ion Ratio Lower Upper

63 100

41 102.2 64.2 96.2

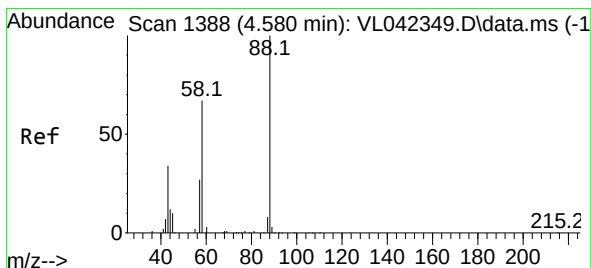
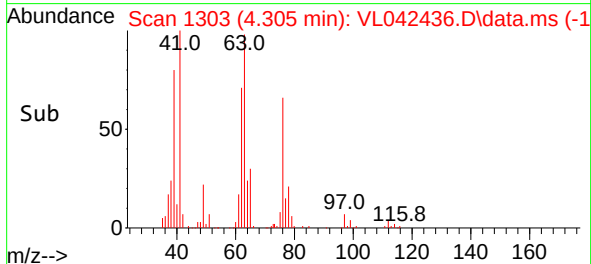
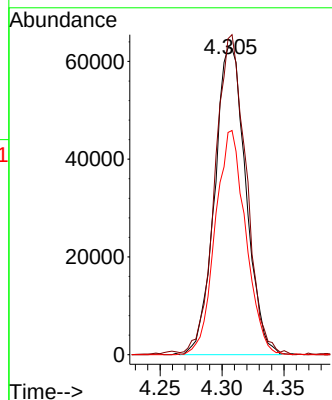
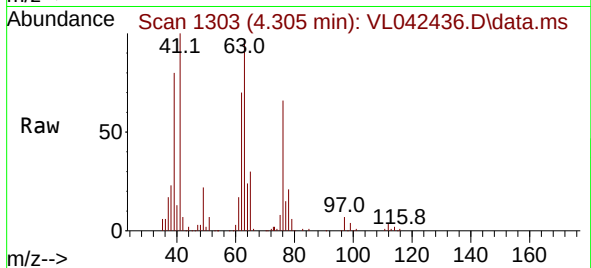
62 72.1 54.3 81.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/30/2025

Supervised By :Mahesh Dadoda 04/30/2025



#40

1,4-Dioxane

Concen: 7.907 ppbv

RT: 4.577 min Scan# 1387

Delta R.T. -0.003 min

Lab File: VL042436.D

Acq: 29 Apr 2025 08:39

Tgt Ion: 88 Resp: 54364

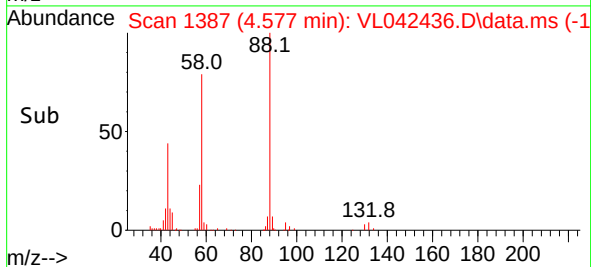
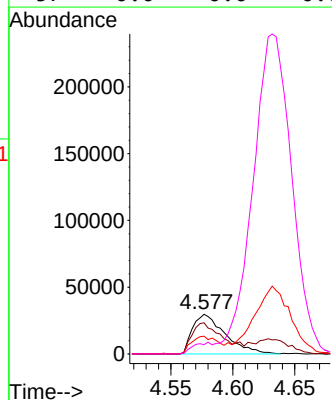
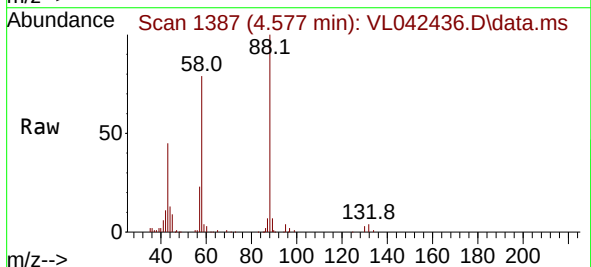
Ion Ratio Lower Upper

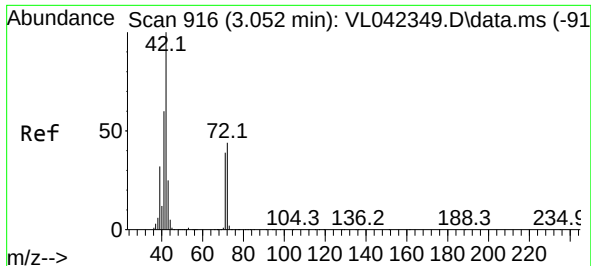
88 100

58 81.3 61.4 92.0

43 40.1 23.2 34.8

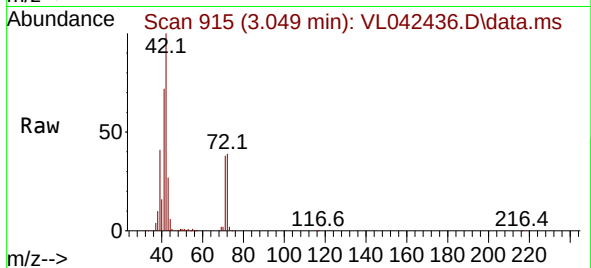
57 0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 8.479 ppbv
RT: 3.049 min Scan# 916
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

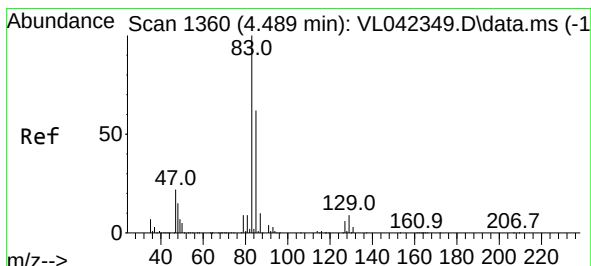
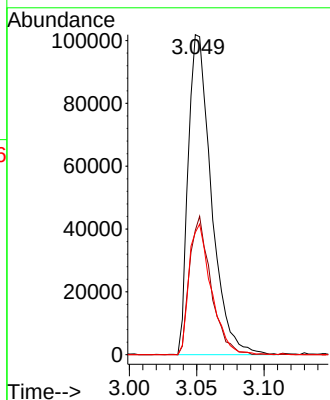
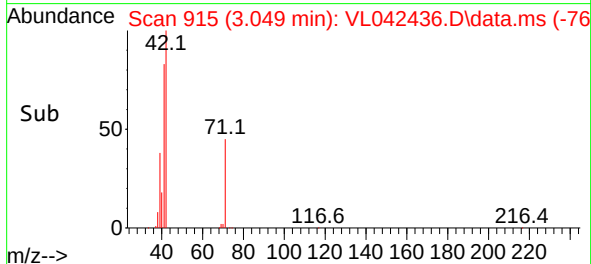
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



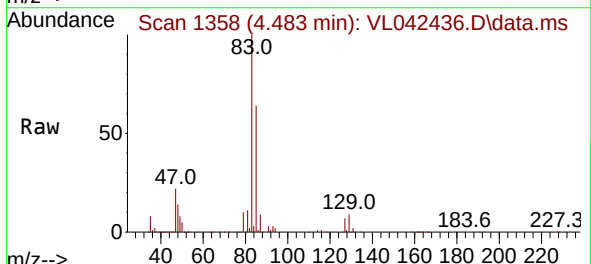
Tgt Ion: 42 Resp: 121700
Ion Ratio Lower Upper
42 100
72 40.2 32.3 48.5
71 39.5 31.4 47.2

Manual Integrations
APPROVED

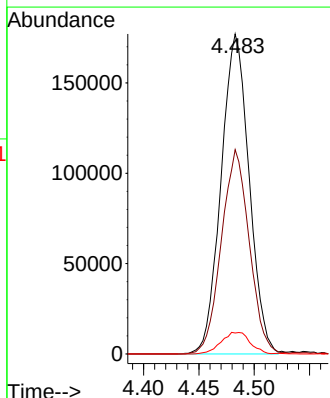
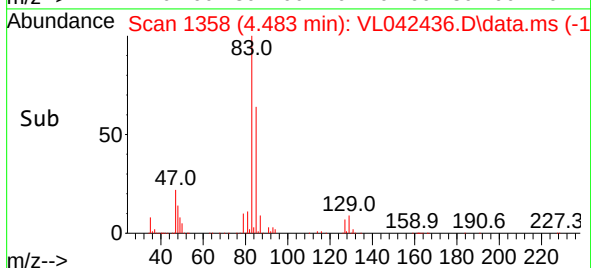
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

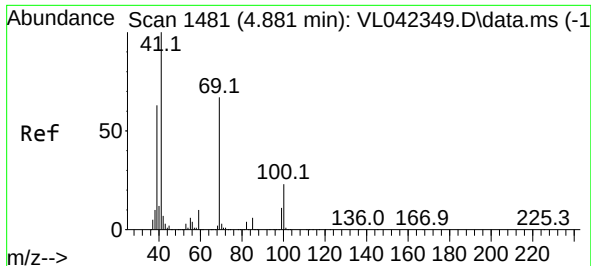


#42
Bromodichloromethane
Concen: 11.127 ppbv
RT: 4.483 min Scan# 1358
Delta R.T. -0.007 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39



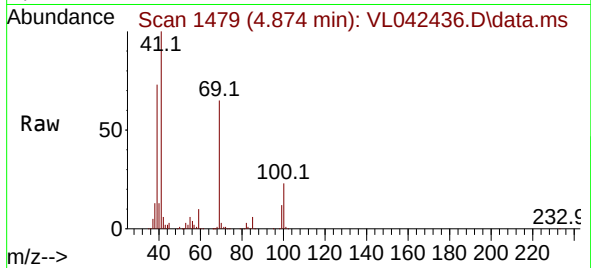
Tgt Ion: 83 Resp: 312029
Ion Ratio Lower Upper
83 100
85 63.8 49.7 74.5
127 6.6 5.1 7.7





#43
Methyl Methacrylate
Concen: 8.367 ppbv
RT: 4.874 min Scan# 1481
Delta R.T. -0.007 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

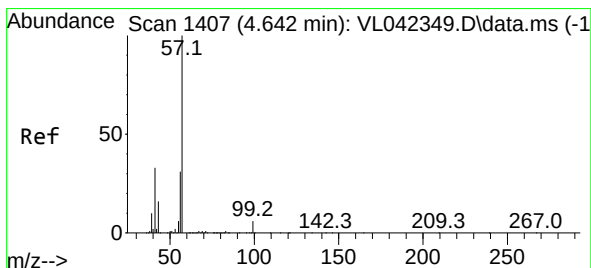
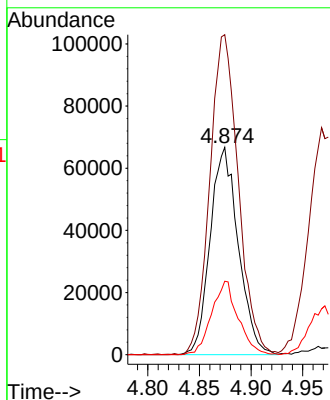
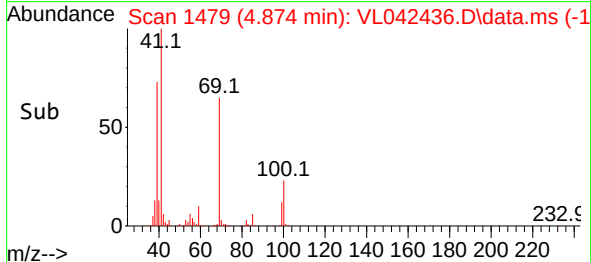
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



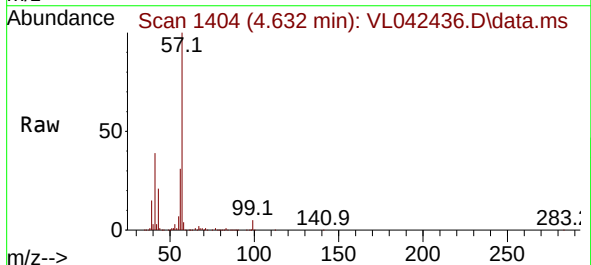
Tgt Ion: 69 Resp: 126594
Ion Ratio Lower Upper
69 100
41 156.3 118.6 177.8
100 33.3 28.2 42.2

Manual Integrations
APPROVED

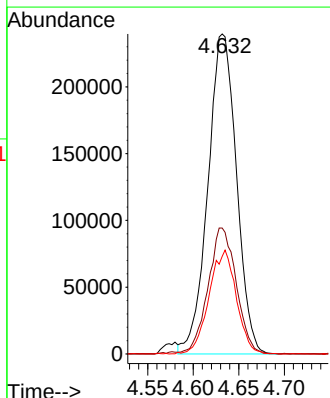
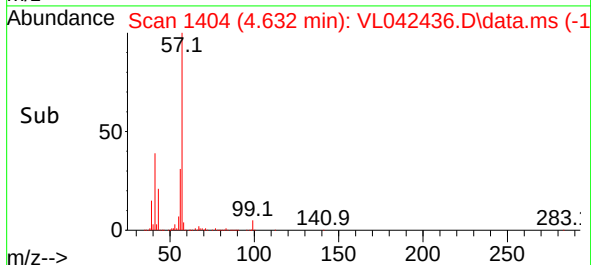
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

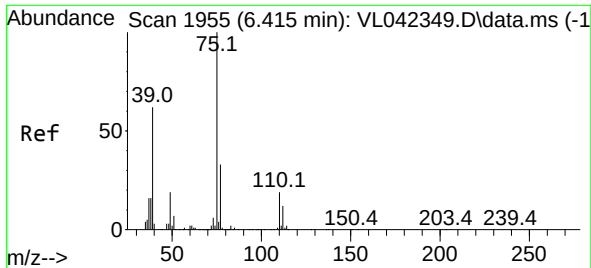


#44
2,2,4-Trimethylpentane
Concen: 9.010 ppbv
RT: 4.632 min Scan# 1404
Delta R.T. -0.010 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39



Tgt Ion: 57 Resp: 522427
Ion Ratio Lower Upper
57 100
41 39.2 27.2 40.8
56 31.1 25.7 38.5





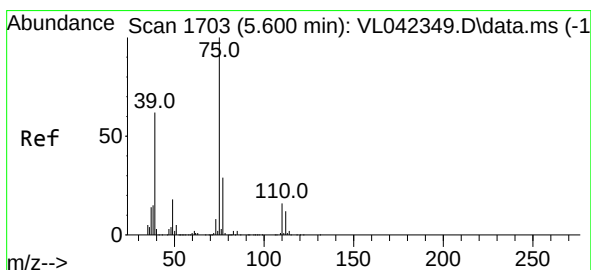
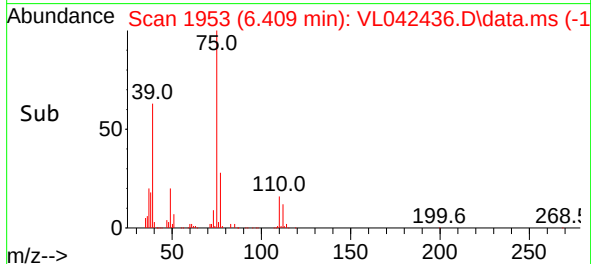
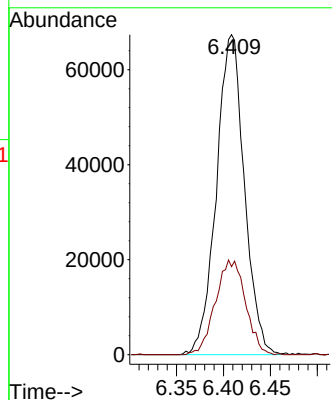
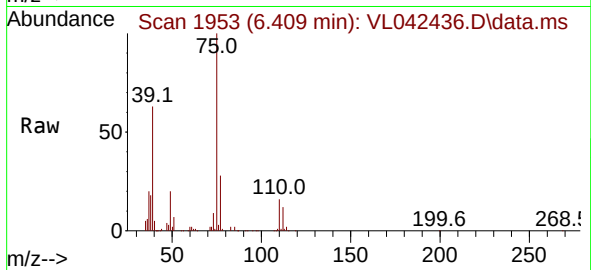
#45
t-1,3-Dichloropropene
Concen: 9.026 ppbv
RT: 6.409 min Scan# 1955
Delta R.T. -0.007 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 75 Resp: 139508
Ion Ratio Lower Upper
75 100
77 27.5 27.0 40.6

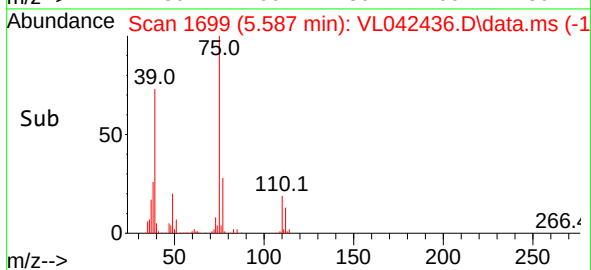
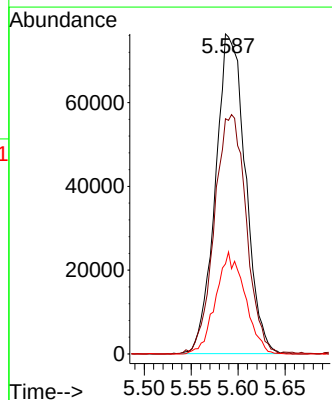
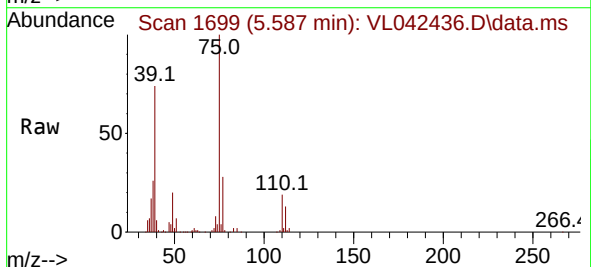
Manual Integrations
APPROVED

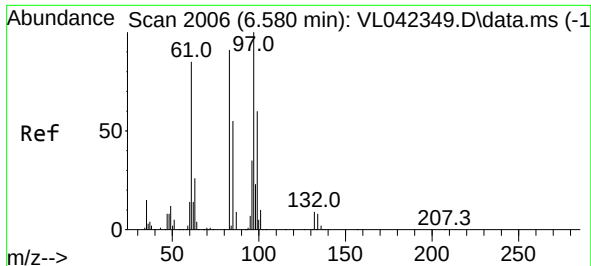
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025



#46
cis-1,3-Dichloropropene
Concen: 8.953 ppbv
RT: 5.587 min Scan# 1699
Delta R.T. -0.013 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

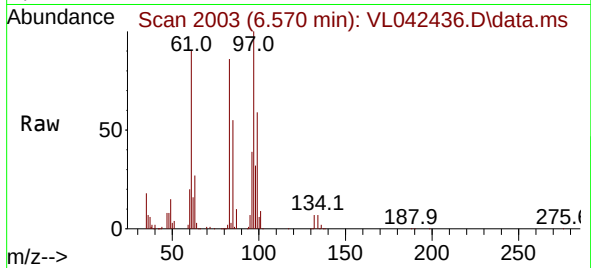
Tgt Ion: 75 Resp: 169355
Ion Ratio Lower Upper
75 100
39 73.4 50.0 75.0
77 28.2 23.0 34.6





#47
1,1,2-Trichloroethane
Concen: 10.138 ppbv m
RT: 6.570 min Scan# 2006
Delta R.T. -0.010 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

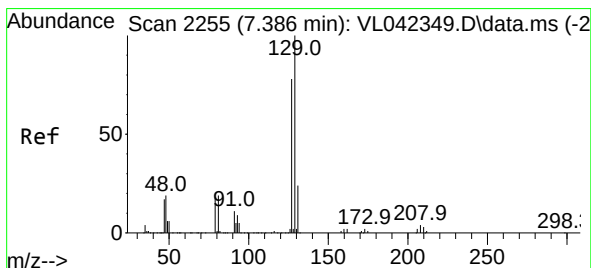
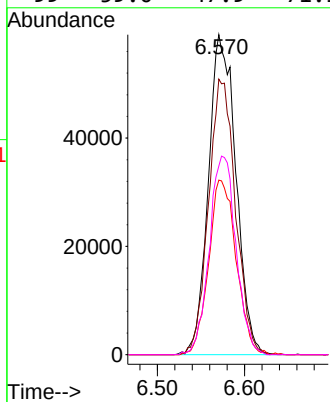
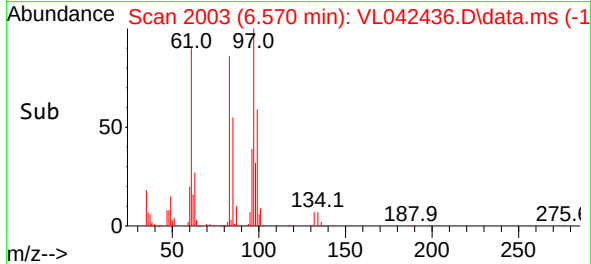
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



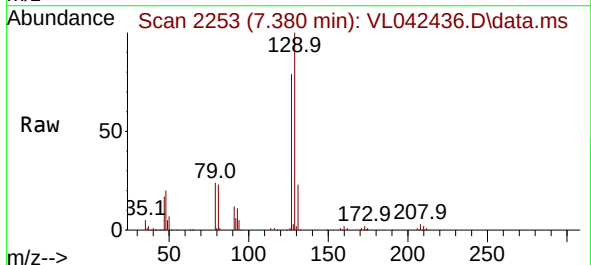
Tgt Ion: 97 Resp: 129223
Ion Ratio Lower Upper
97 100
83 86.1 72.8 109.2
85 54.6 44.2 66.4
99 59.0 47.9 71.9

Manual Integrations
APPROVED

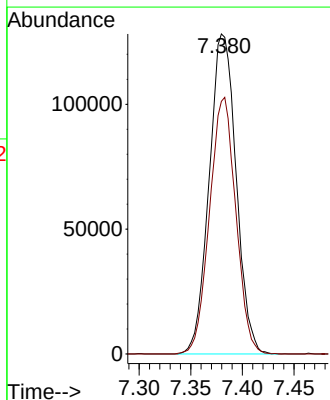
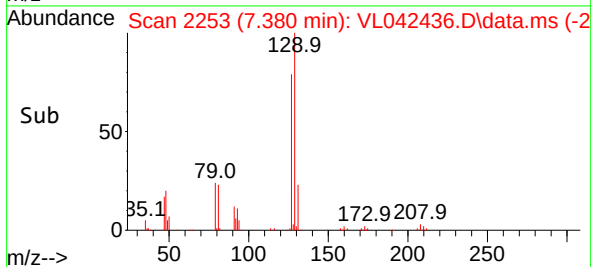
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

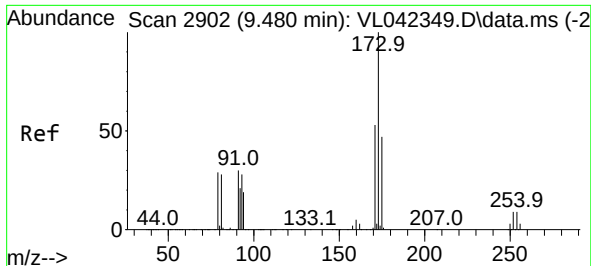


#48
Dibromochloromethane
Concen: 10.339 ppbv
RT: 7.380 min Scan# 2253
Delta R.T. -0.007 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39



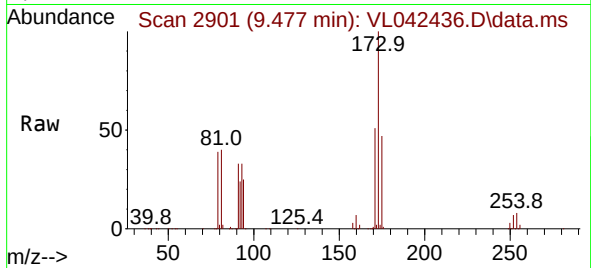
Tgt Ion:129 Resp: 232818
Ion Ratio Lower Upper
129 100
127 78.1 39.1 117.3





#49
Bromoform
Concen: 9.593 ppbv
RT: 9.477 min Scan# 2902
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

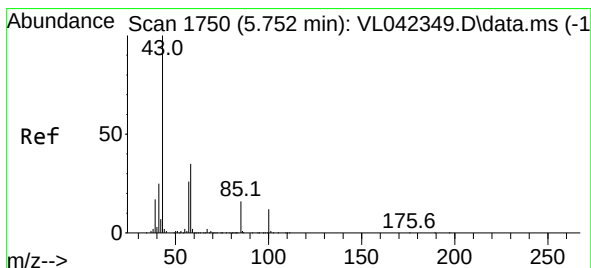
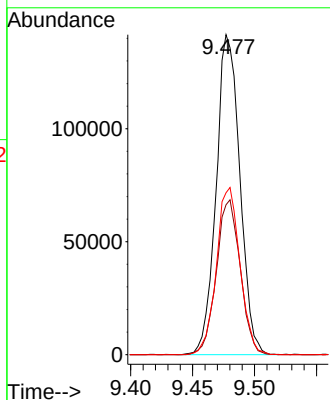
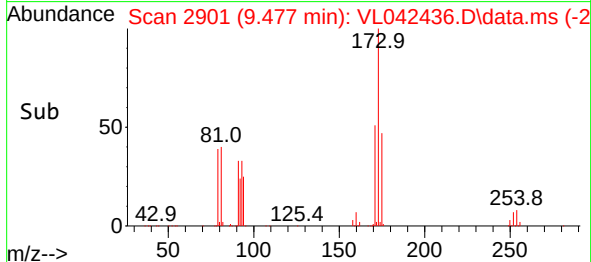
Instrument : MSVOA_L
ClientSampleId : VSTDCCC010



Tgt Ion:173 Resp: 188890
Ion Ratio Lower Upper
173 100
175 48.7 38.2 57.2
171 52.0 40.9 61.3

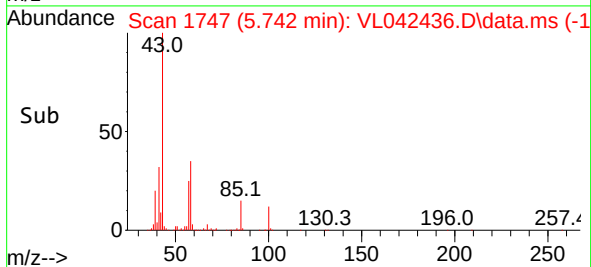
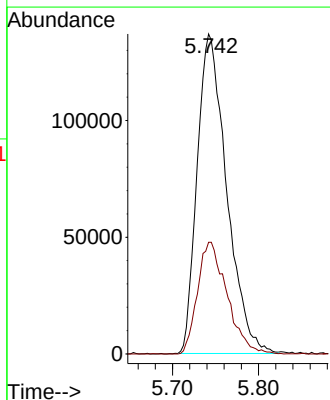
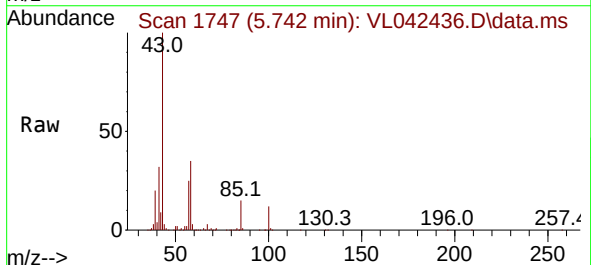
Manual Integrations
APPROVED

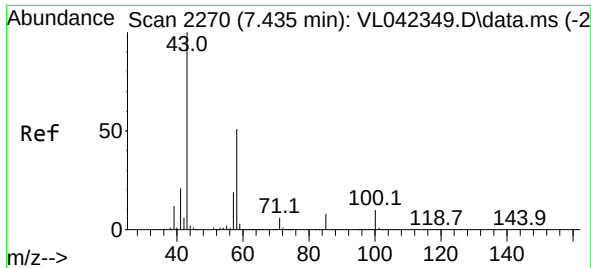
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025



#50
4-Methyl-2-Pentanone
Concen: 7.965 ppbv
RT: 5.742 min Scan# 1747
Delta R.T. -0.010 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

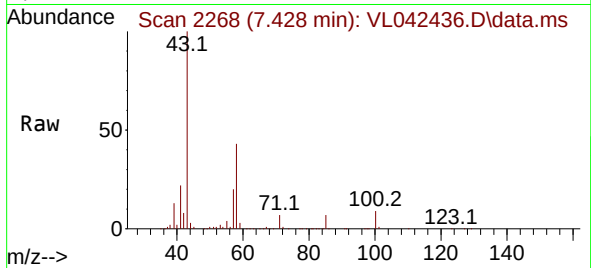
Tgt Ion: 43 Resp: 325855
Ion Ratio Lower Upper
43 100
58 35.1 28.6 43.0





#51
2-Hexanone
Concen: 7.357 ppbv
RT: 7.428 min Scan# 21
Delta R.T. -0.007 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

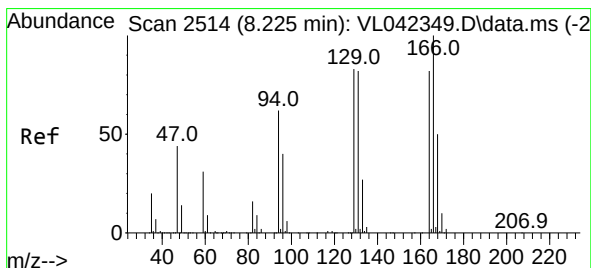
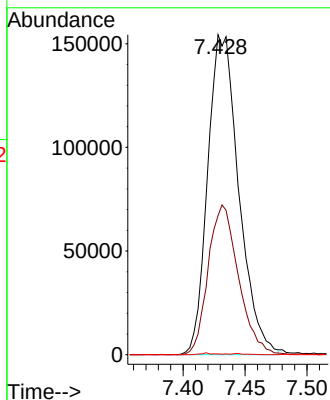
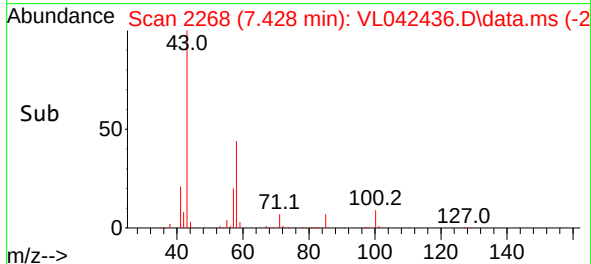
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion: 43 Resp: 269915
Ion Ratio Lower Upper
43 100
58 45.8 40.2 60.4
98 0.4 0.1 0.1

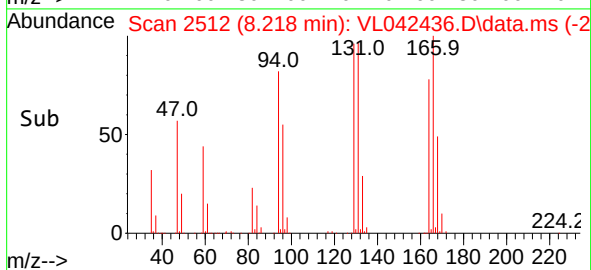
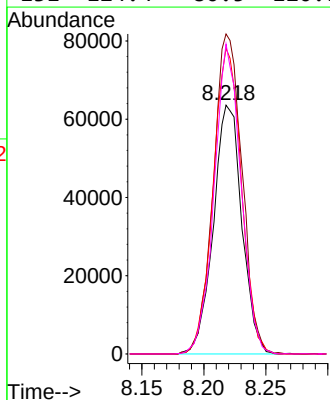
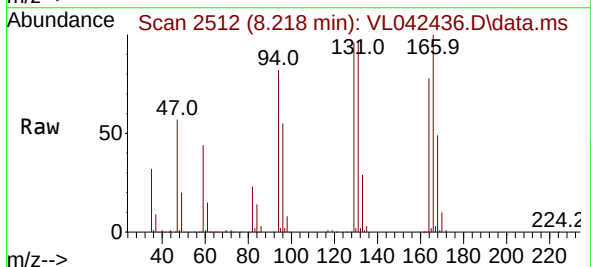
Manual Integrations
APPROVED

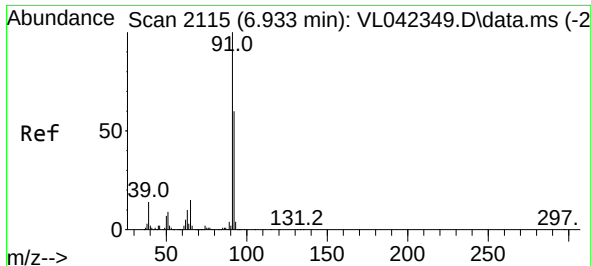
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025



#52
Tetrachloroethene
Concen: 7.833 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. -0.007 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion:164 Resp: 101642
Ion Ratio Lower Upper
164 100
166 128.6 98.2 147.2
129 122.8 81.8 122.8#
131 124.4 80.5 120.7#





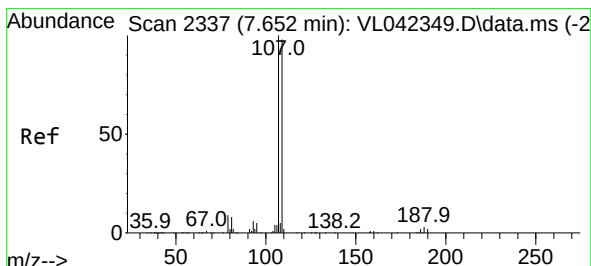
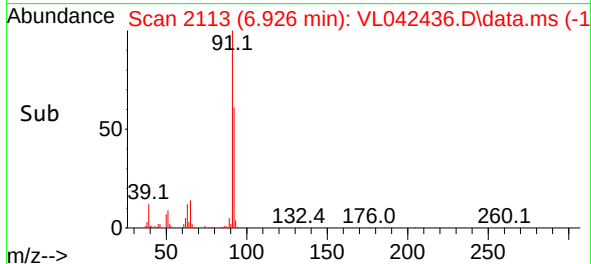
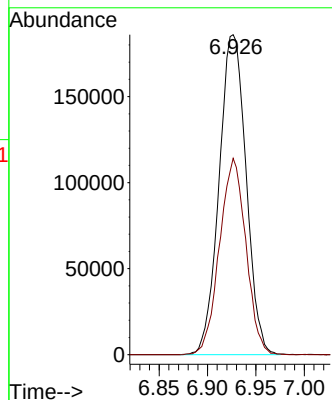
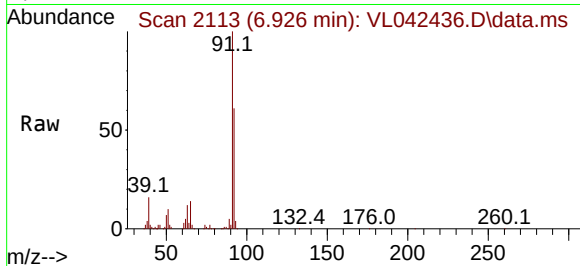
#53
Toluene
Concen: 8.968 ppbv
RT: 6.926 min Scan# 2115
Delta R.T. -0.007 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 91 Resp: 36131
Ion Ratio Lower Upper
91 100
92 59.9 48.2 72.4

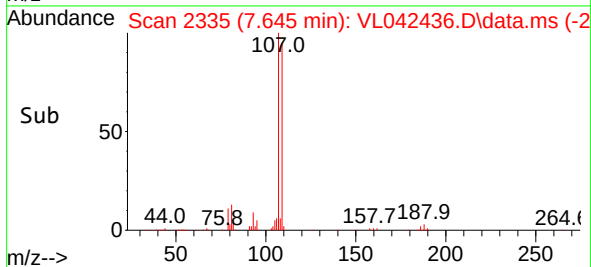
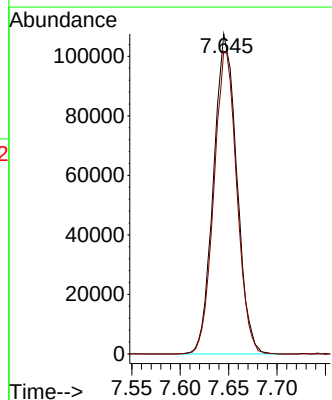
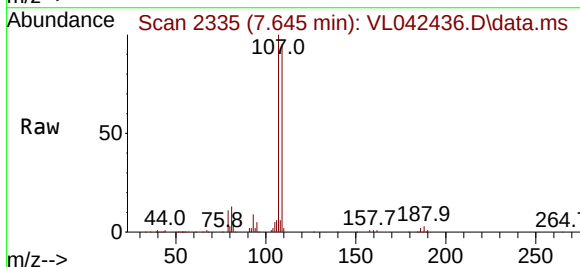
Manual Integrations
APPROVED

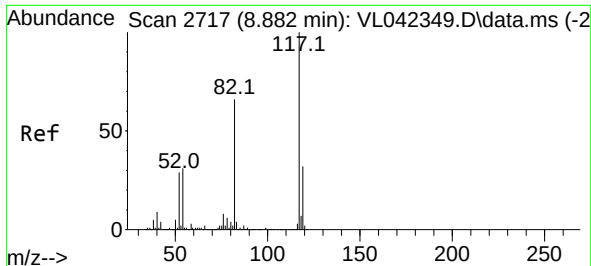
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025



#54
1,2-Dibromoethane
Concen: 9.861 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. -0.007 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion:107 Resp: 179895
Ion Ratio Lower Upper
107 100
109 94.7 78.2 117.4





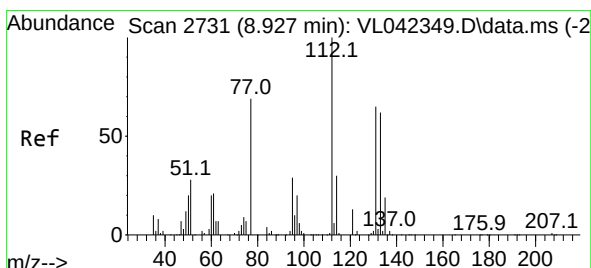
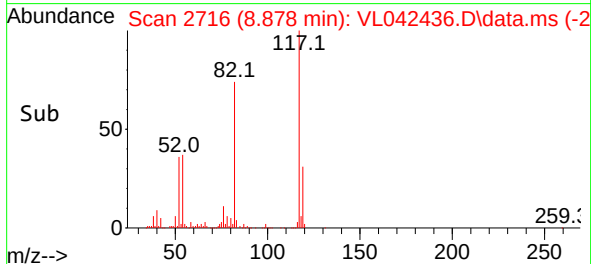
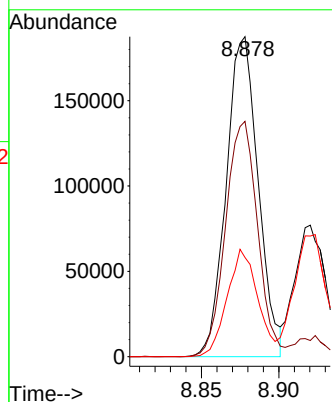
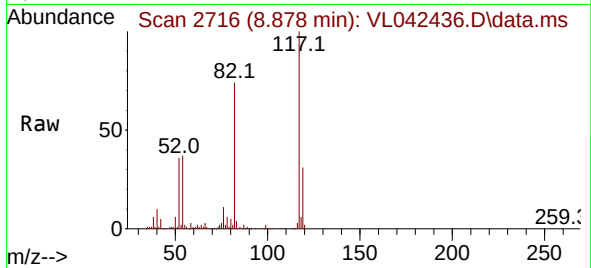
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:117 Resp: 26998
Ion Ratio Lower Upper
117 100
82 79.6 57.8 86.6
119 32.9 25.2 37.8

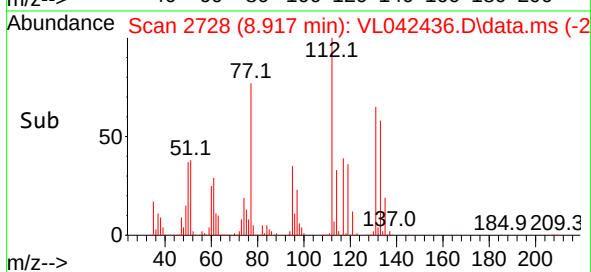
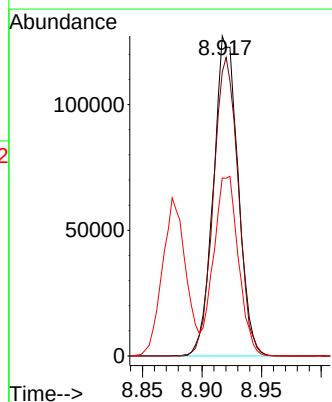
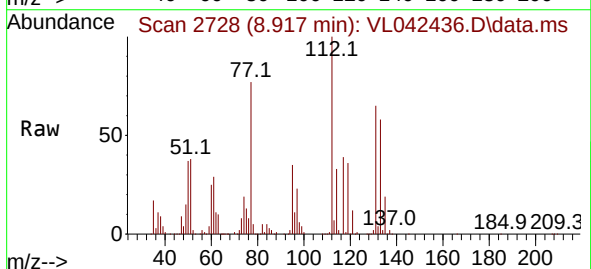
Manual Integrations
APPROVED

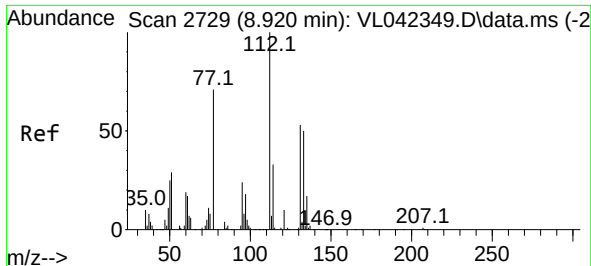
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025



#56
1,1,1,2-Tetrachloroethane
Concen: 11.184 ppbv
RT: 8.917 min Scan# 2728
Delta R.T. -0.010 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

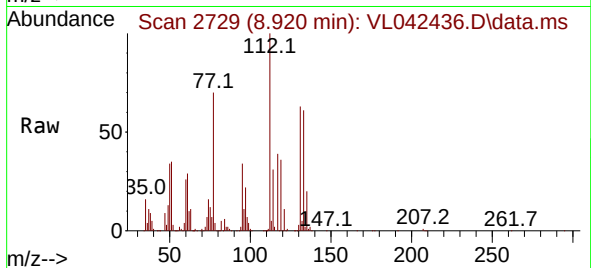
Tgt Ion:131 Resp: 182759
Ion Ratio Lower Upper
131 100
133 93.9 78.3 117.5
119 55.8 48.7 73.1





#57
Chlorobenzene
Concen: 10.086 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. -0.000 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

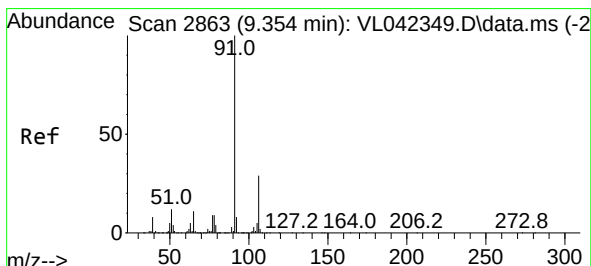
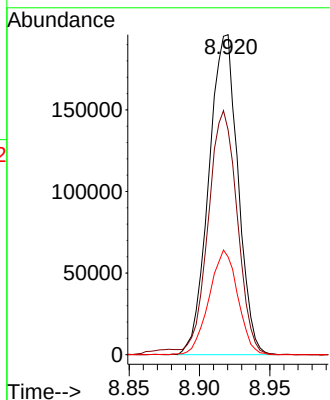
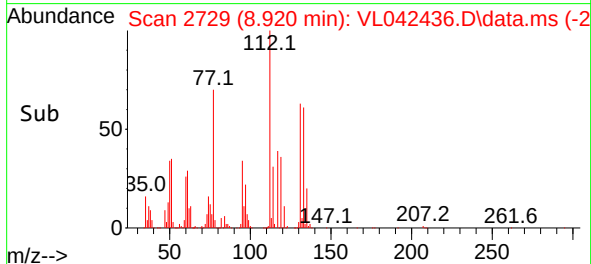
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion: 112 Resp: 283210
Ion Ratio Lower Upper
112 100
77 70.2 57.8 86.6
114 30.6 29.3 35.9

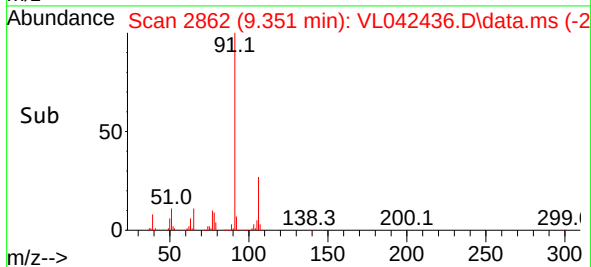
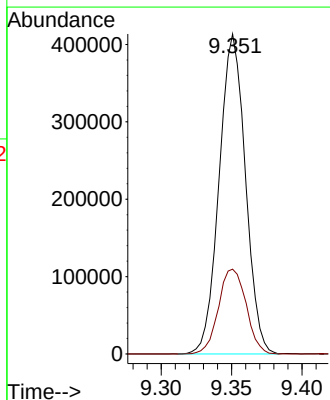
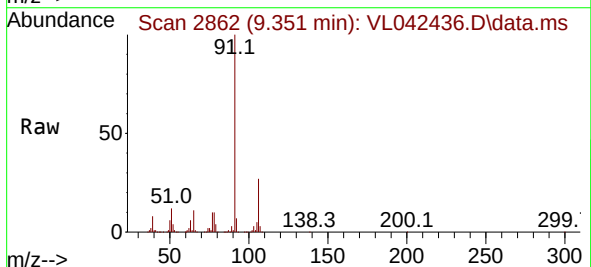
Manual Integrations
APPROVED

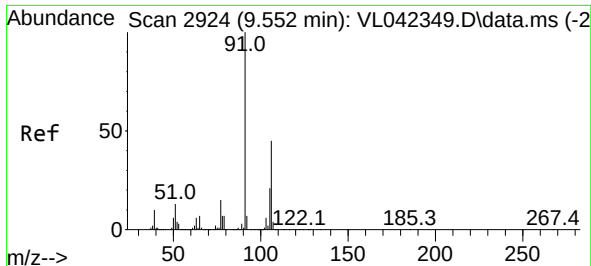
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025



#58
Ethyl Benzene
Concen: 10.032 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 91 Resp: 536634
Ion Ratio Lower Upper
91 100
106 26.5 23.0 34.4





#59

m/p-Xylene

Concen: 21.110 ppbv m

RT: 9.529 min Scan# 2917

Delta R.T. -0.023 min

Lab File: VL042436.D

Acq: 29 Apr 2025 08:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 91 Resp: 909704

Ion Ratio Lower Upper

91 100

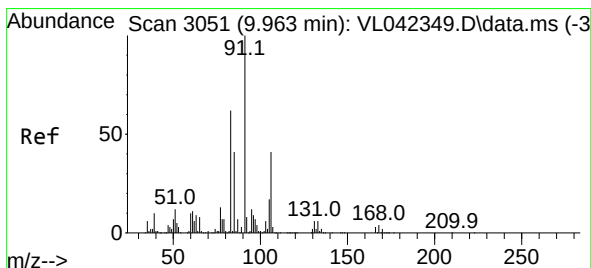
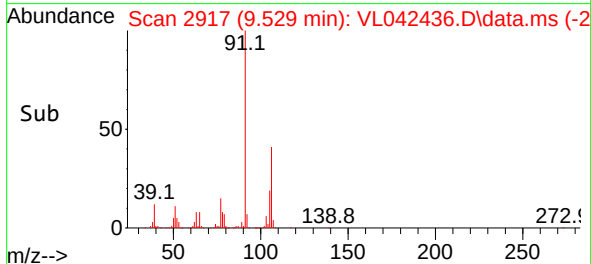
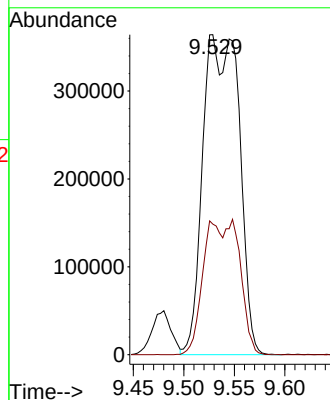
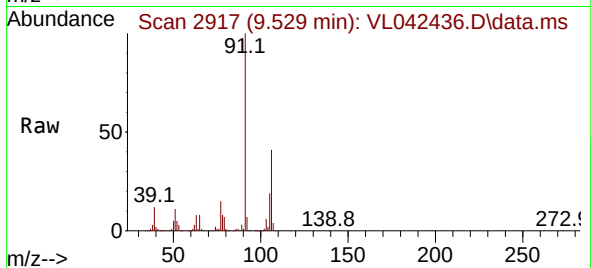
106 41.9 35.4 53.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/30/2025

Supervised By :Mahesh Dadoda 04/30/2025



#60

o-Xylene

Concen: 10.686 ppbv

RT: 9.959 min Scan# 3050

Delta R.T. -0.003 min

Lab File: VL042436.D

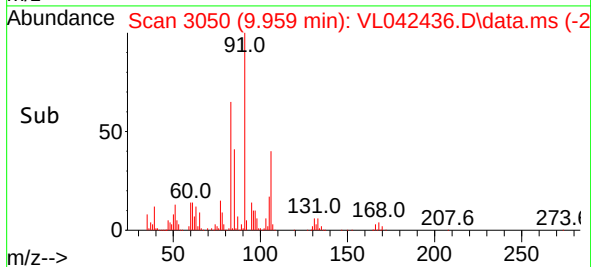
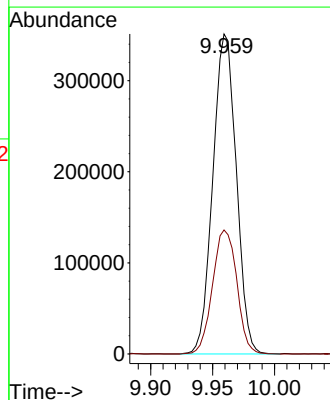
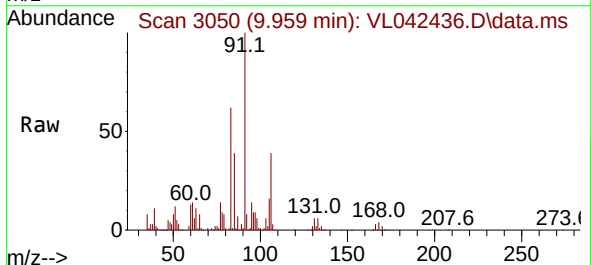
Acq: 29 Apr 2025 08:39

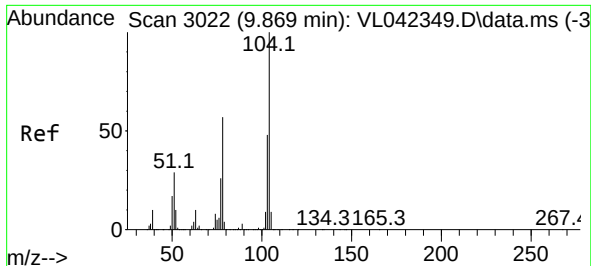
Tgt Ion: 91 Resp: 463713

Ion Ratio Lower Upper

91 100

106 40.0 21.1 63.4





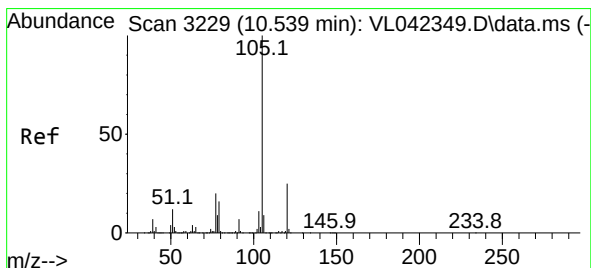
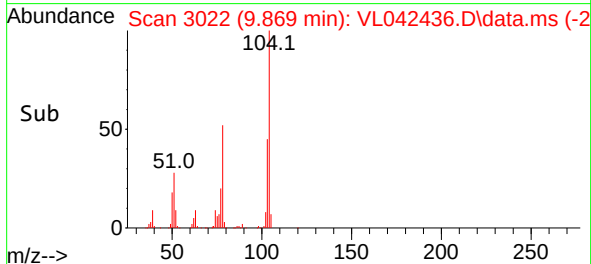
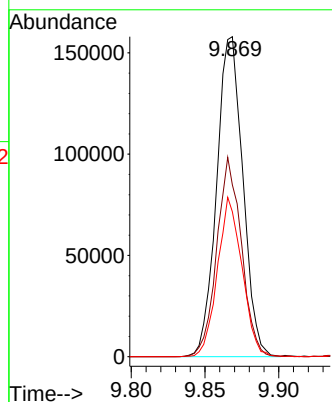
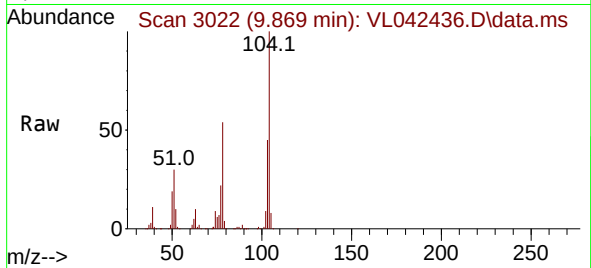
#61
Styrene
Concen: 9.454 ppbv
RT: 9.869 min Scan# 3022
Delta R.T. -0.000 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Instrument : MSVOA_L
ClientSampleId : VSTDCCC010

Tgt Ion:104 Resp: 195811
Ion Ratio Lower Upper
104 100
78 58.5 44.6 66.8
103 46.7 37.4 56.0

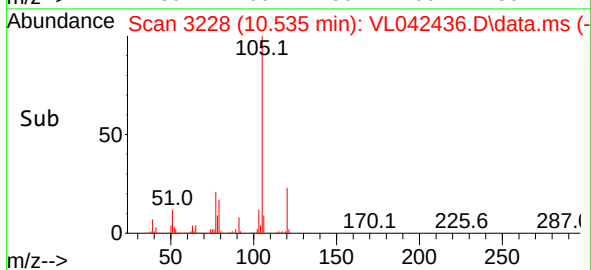
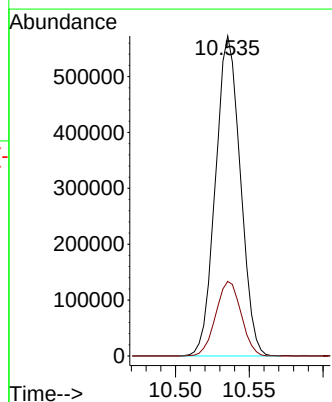
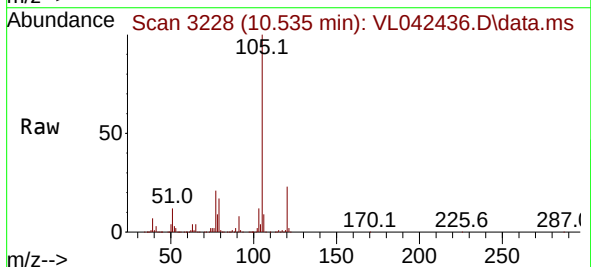
Manual Integrations
APPROVED

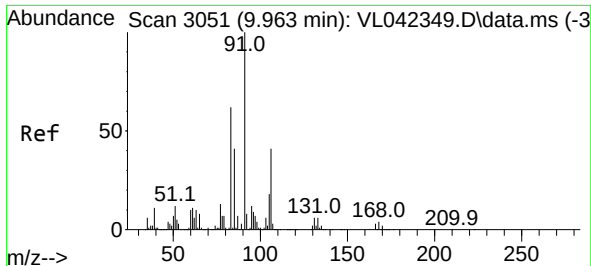
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025



#62
Isopropylbenzene
Concen: 10.558 ppbv
RT: 10.535 min Scan# 3228
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion:105 Resp: 672630
Ion Ratio Lower Upper
105 100
120 23.7 19.8 29.8





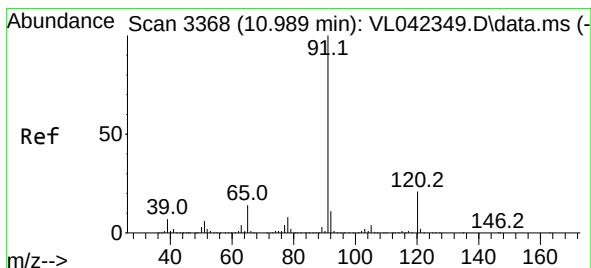
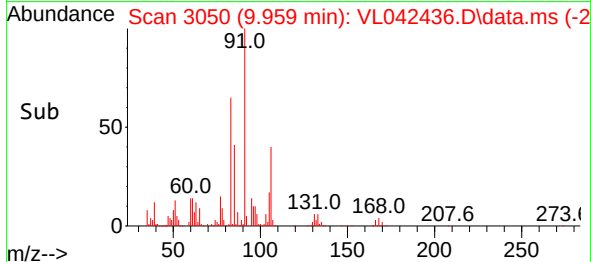
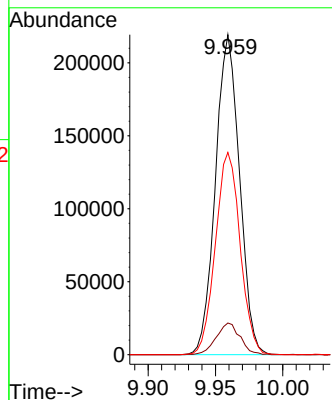
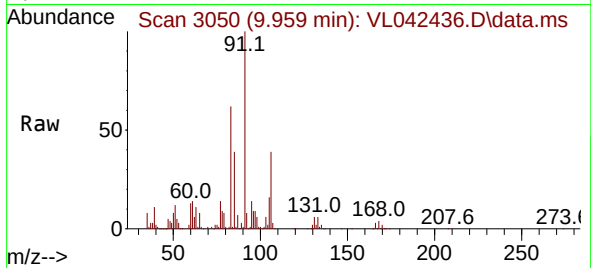
#63
1,1,2,2-Tetrachloroethane
Concen: 9.699 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Instrument : MSVOA_L
ClientSampleId : VSTDCCC010

Tgt Ion: 83 Resp: 272740
Ion Ratio Lower Upper
83 100
131 9.8 4.5 13.7
85 65.0 32.4 97.0

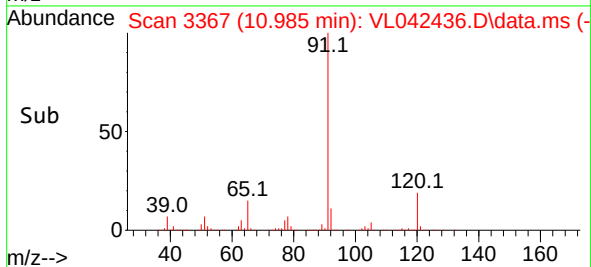
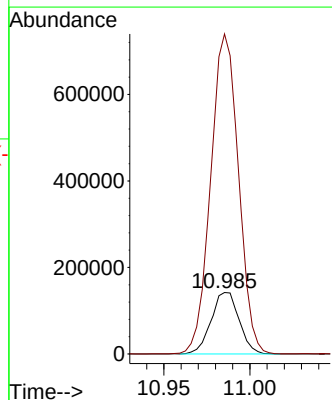
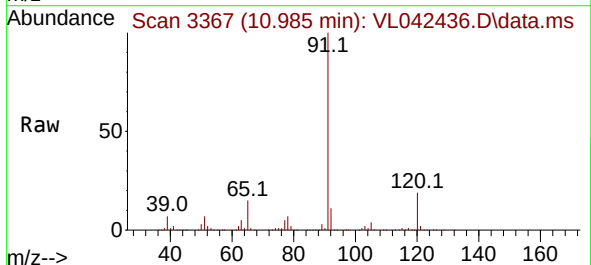
Manual Integrations
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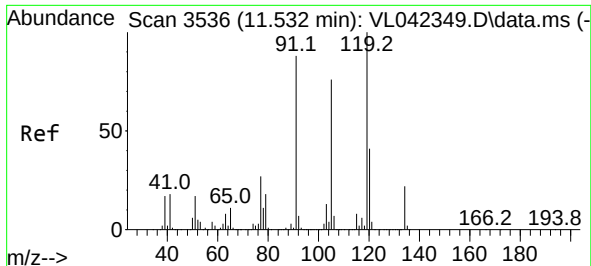
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025



#64
n-propylbenzene
Concen: 10.037 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

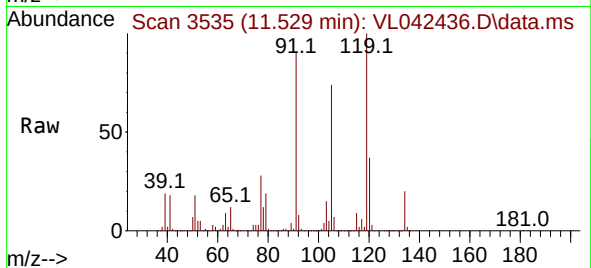
Tgt Ion:120 Resp: 160736
Ion Ratio Lower Upper
120 100
91 518.7 392.4 588.6





#65
tert-Butylbenzene
Concen: 10.535 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

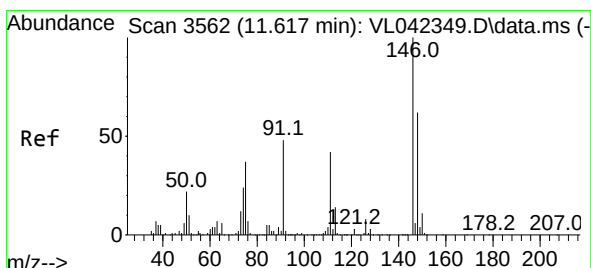
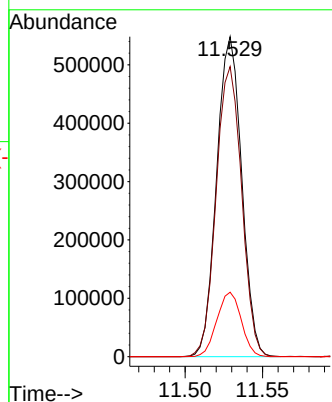
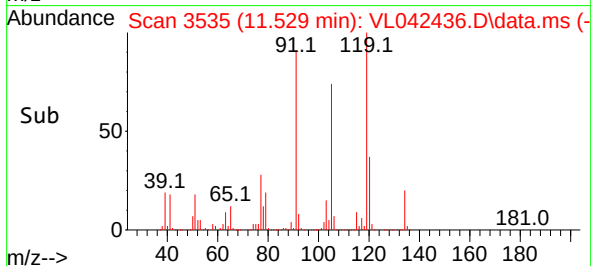
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



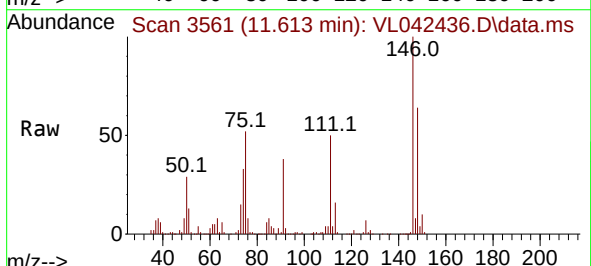
Tgt Ion: 119 Resp: 616872
Ion Ratio Lower Upper
119 100
91 92.2 74.6 111.8
134 19.6 18.8 28.2

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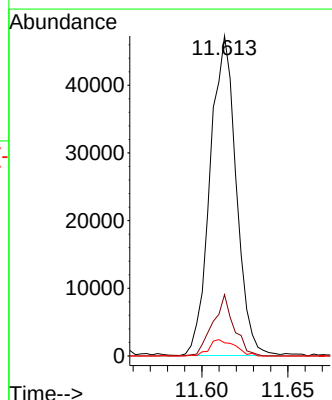
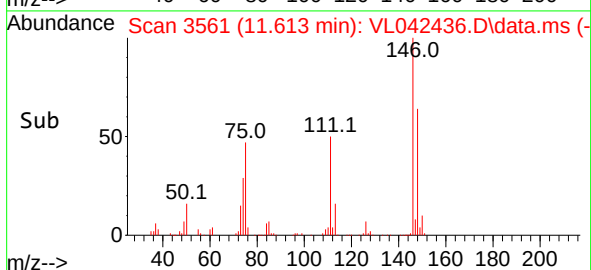
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

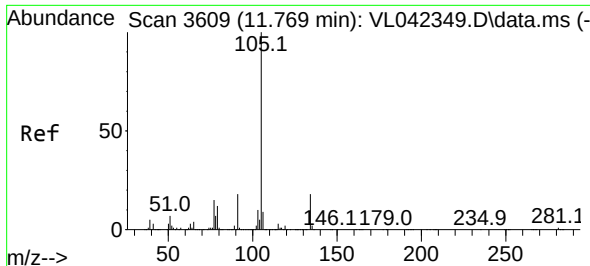


#66
Benzyl Chloride
Concen: 7.746 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39



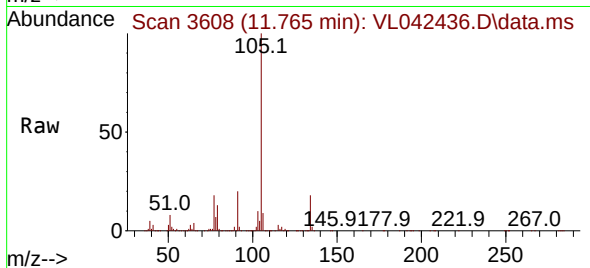
Tgt Ion: 91 Resp: 49841
Ion Ratio Lower Upper
91 100
126 15.4 11.8 17.6
128 5.1 4.5 6.7





#67
 sec-Butylbenzene
 Concen: 10.677 ppbv
 RT: 11.765 min Scan# 3608
 Delta R.T. -0.003 min
 Lab File: VL042436.D
 Acq: 29 Apr 2025 08:39

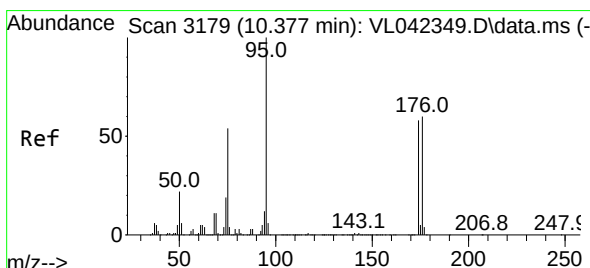
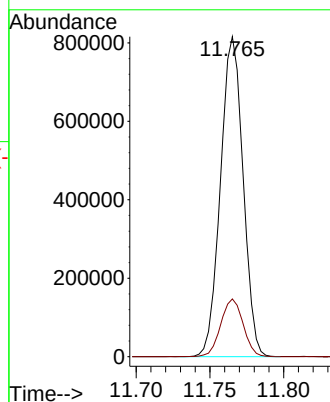
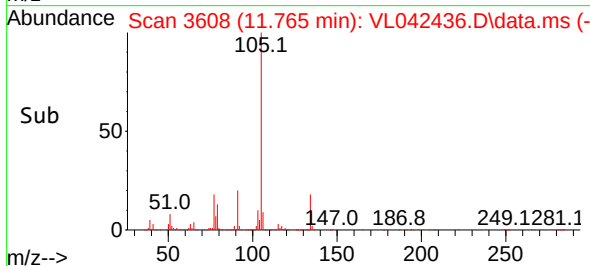
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



Tgt Ion: 105 Resp: 86959
 Ion Ratio Lower Upper
 105 100
 134 17.9 14.6 21.8

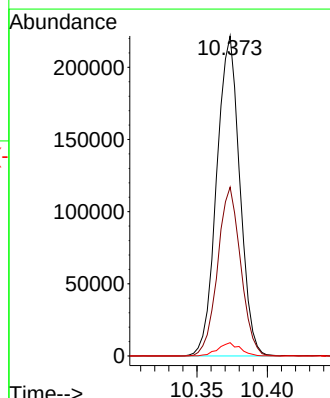
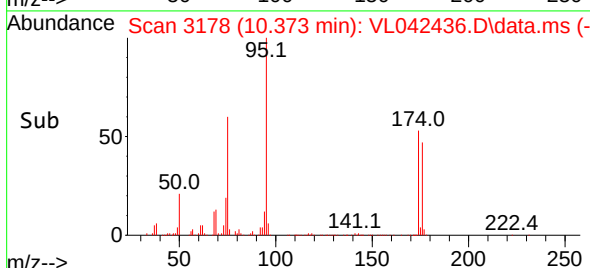
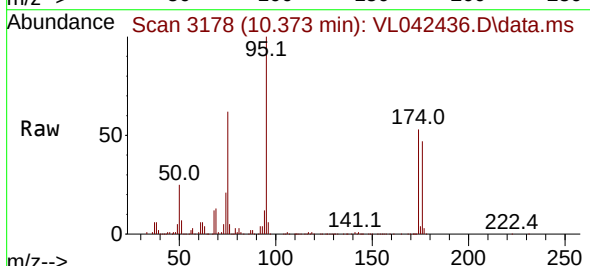
Manual Integrations
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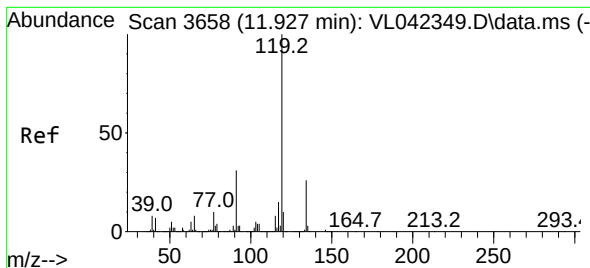
Reviewed By :Semsettin Yesilyurt 04/30/2025
 Supervised By :Mahesh Dadoda 04/30/2025



#68
 1-Bromo-4-Fluorobenzene
 Concen: 11.413 ppbv
 RT: 10.373 min Scan# 3178
 Delta R.T. -0.003 min
 Lab File: VL042436.D
 Acq: 29 Apr 2025 08:39

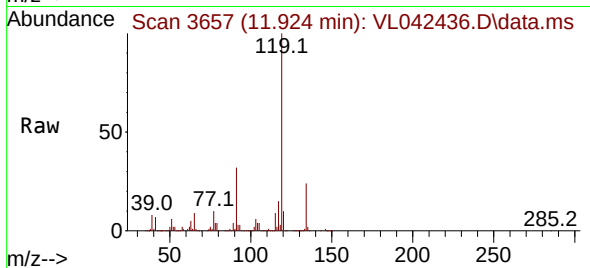
Tgt Ion: 95 Resp: 253216
 Ion Ratio Lower Upper
 95 100
 174 52.8 48.5 72.7
 175 4.0 3.7 5.5





#69
p-Isopropyltoluene
Concen: 10.442 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

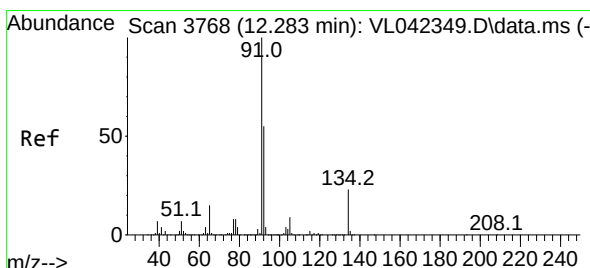
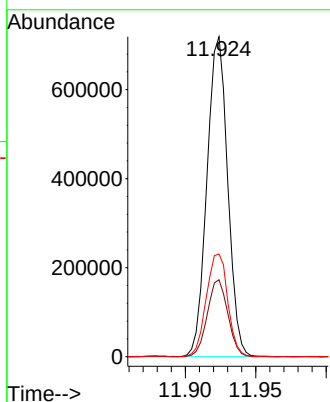
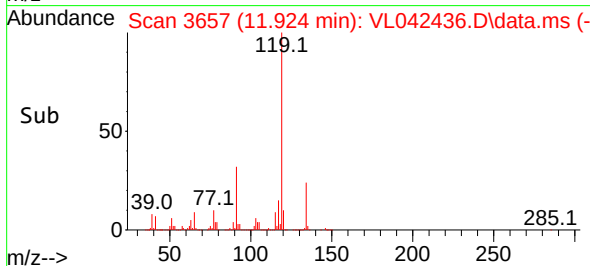
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



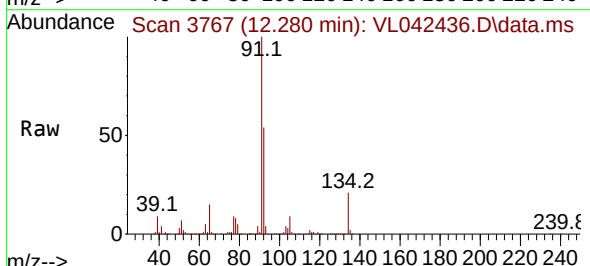
Tgt Ion: 119 Resp: 73886
Ion Ratio Lower Upper
119 100
134 23.9 20.0 30.0
91 33.5 24.4 36.6

Manual Integrations
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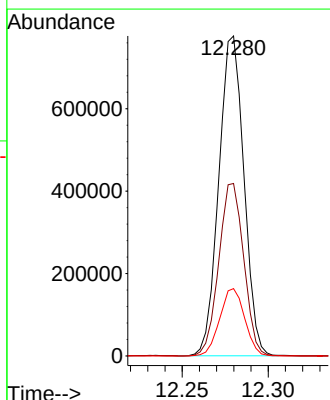
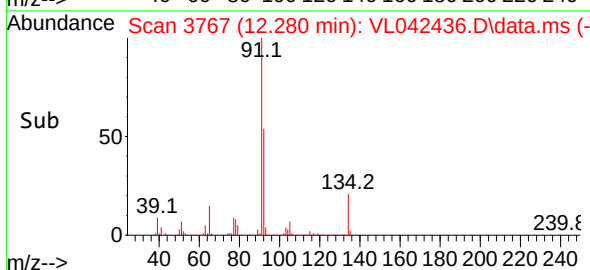
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

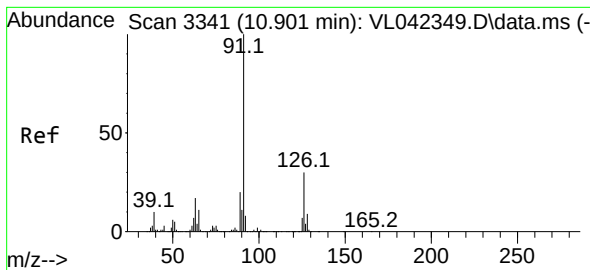


#70
n-Butylbenzene
Concen: 10.688 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39



Tgt Ion: 91 Resp: 787717
Ion Ratio Lower Upper
91 100
92 53.9 44.2 66.4
134 21.0 18.2 27.4





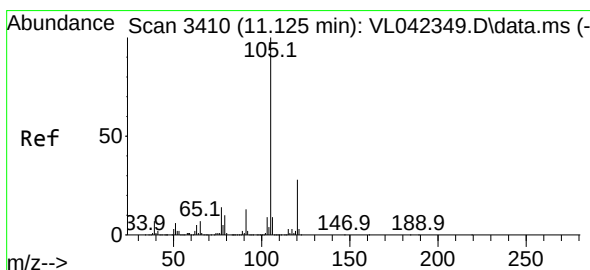
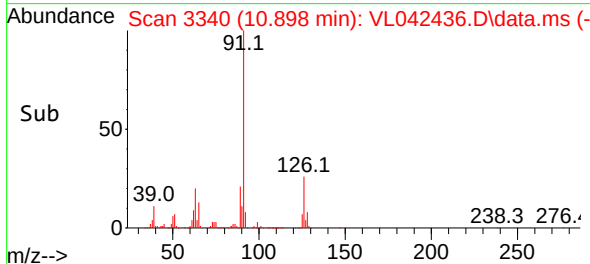
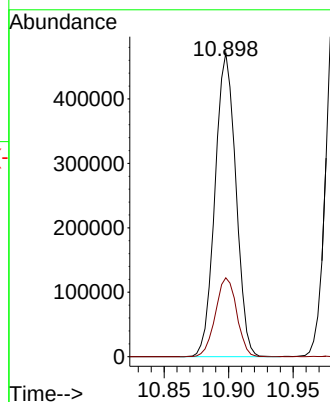
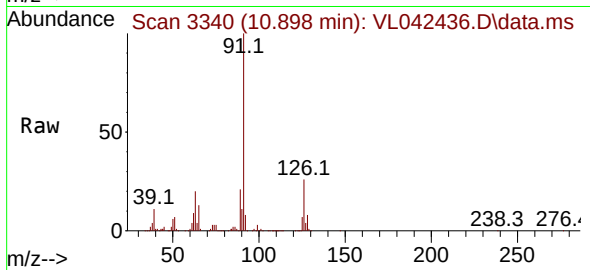
#71
2-Chlorotoluene
Concen: 10.571 ppbv
RT: 10.898 min Scan# 31
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 91 Resp: 52820
Ion Ratio Lower Upper
91 100
126 26.5 11.4 45.4

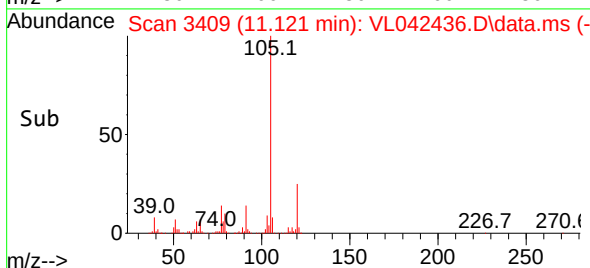
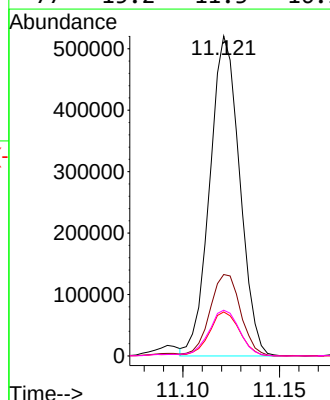
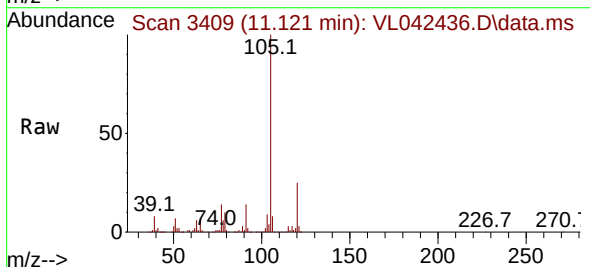
Manual Integrations
APPROVED

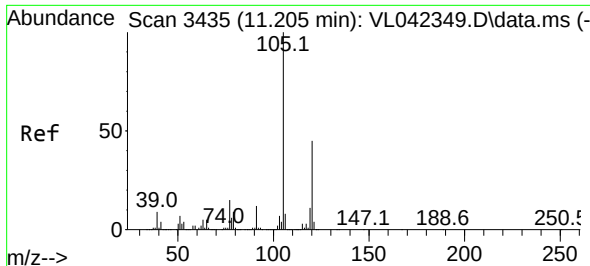
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025



#72
4-Ethyltoluene
Concen: 10.542 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

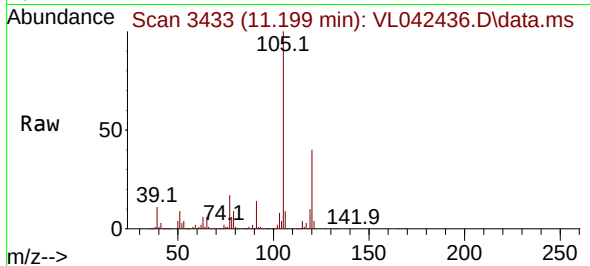
Tgt Ion:105 Resp: 559285
Ion Ratio Lower Upper
105 100
120 27.0 23.2 34.8
91 14.5 10.4 15.6
77 15.2 11.3 16.9





#73
1,3,5-Trimethylbenzene
Concen: 10.546 ppbv
RT: 11.199 min Scan# 3435
Delta R.T. -0.007 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

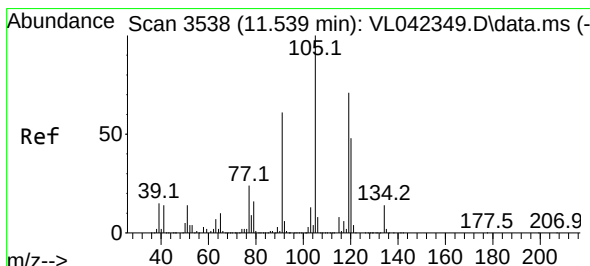
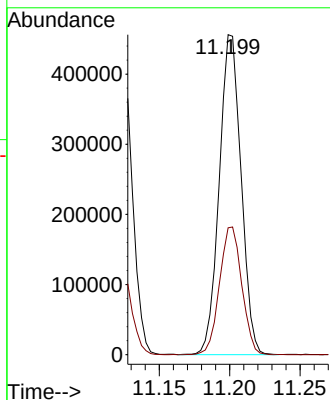
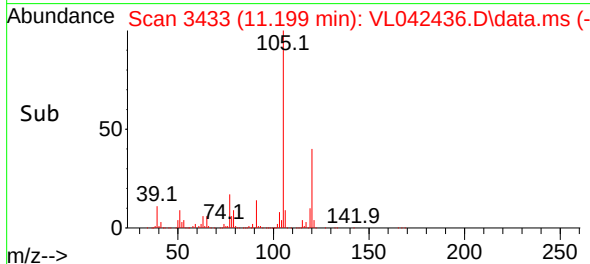
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



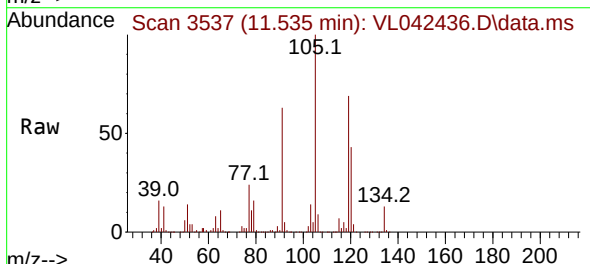
Tgt Ion:105 Resp: 493949
Ion Ratio Lower Upper
105 100
120 39.6 35.6 53.4

Manual Integrations
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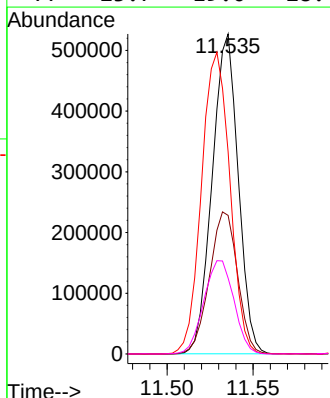
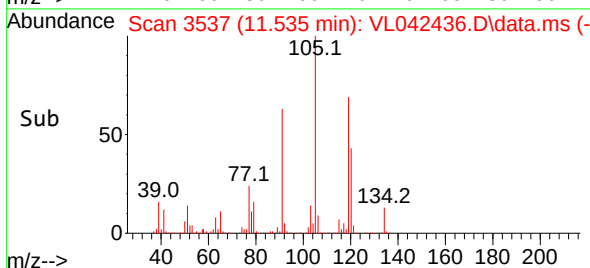
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

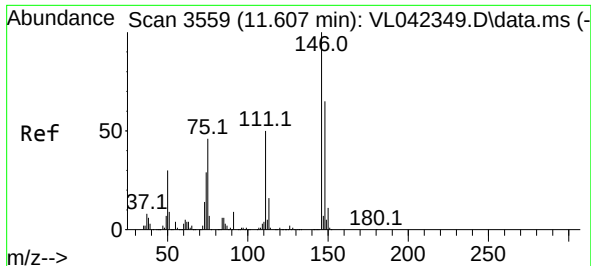


#74
1,2,4-Trimethylbenzene
Concen: 10.130 ppbv
RT: 11.535 min Scan# 3537
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39



Tgt Ion:105 Resp: 554136
Ion Ratio Lower Upper
105 100
120 43.3 38.1 57.1
91 63.1 48.8 73.2
77 23.7 19.0 28.4





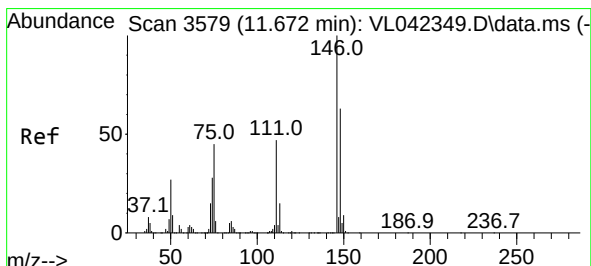
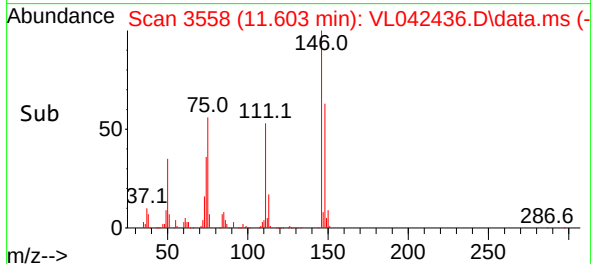
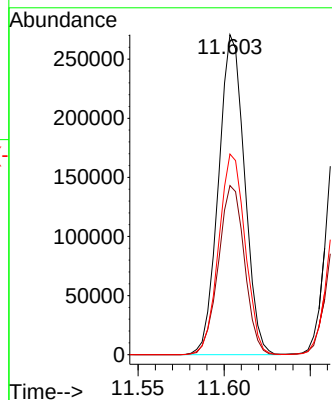
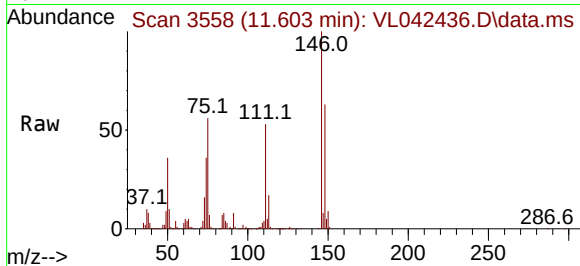
#75
1,3-Dichlorobenzene
Concen: 10.024 ppbv
RT: 11.603 min Scan# 3558
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:146 Resp: 285025
Ion Ratio Lower Upper
146 100
111 52.9 24.3 72.8
148 63.6 31.6 94.8

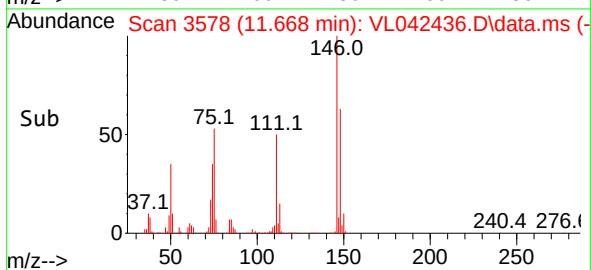
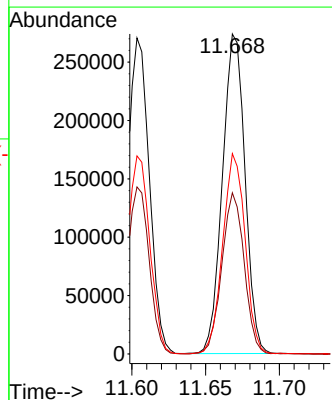
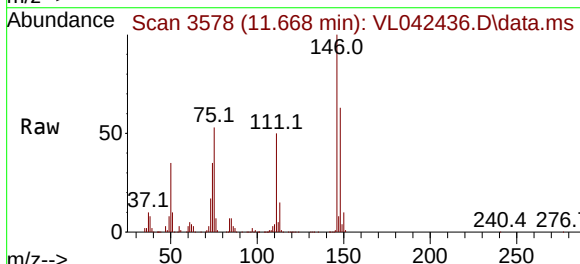
Manual Integrations
APPROVED

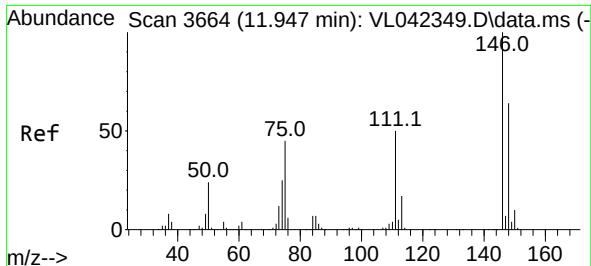
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025



#76
1,4-Dichlorobenzene
Concen: 10.210 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

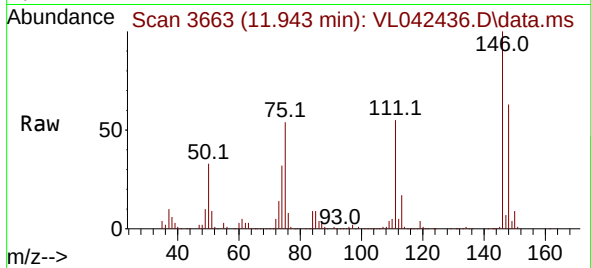
Tgt Ion:146 Resp: 291795
Ion Ratio Lower Upper
146 100
111 50.1 24.2 72.6
148 62.4 32.1 96.5





#77
1,2-Dichlorobenzene
Concen: 10.261 ppbv
RT: 11.943 min Scan# 3663
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

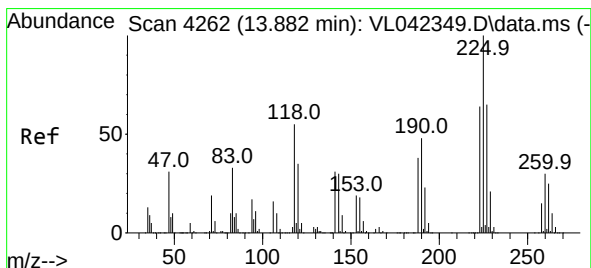
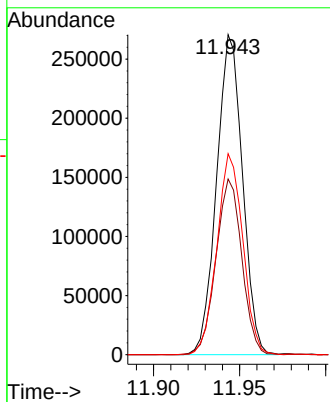
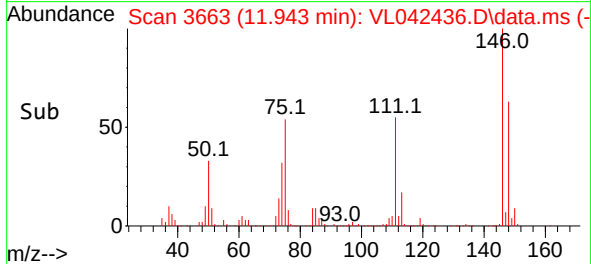
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



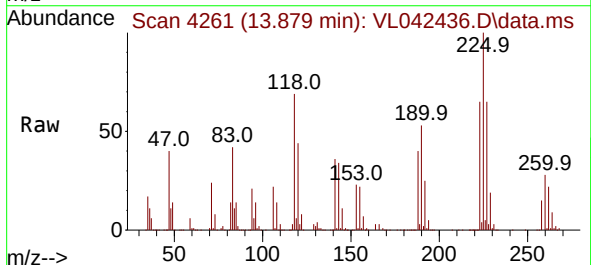
Tgt Ion:146 Resp: 283700
Ion Ratio Lower Upper
146 100
111 54.8 25.3 75.9
148 63.1 31.5 94.5

Manual Integrations
APPROVED

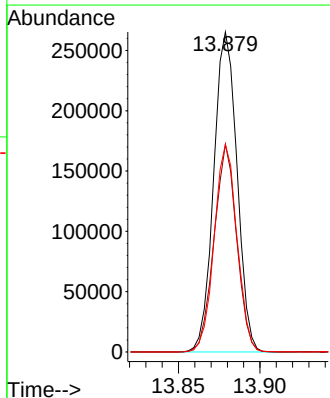
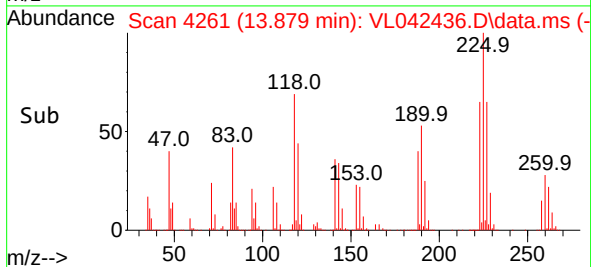
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

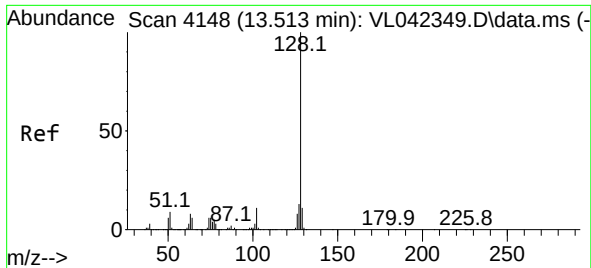


#78
Hexachloro-1,3-Butadiene
Concen: 9.437 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39



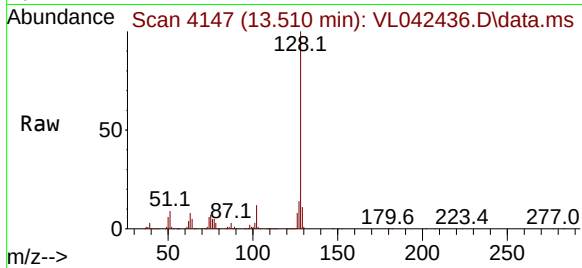
Tgt Ion:225 Resp: 263477
Ion Ratio Lower Upper
225 100
223 62.6 50.3 75.5
227 63.6 51.5 77.3





#79
Naphthalene
Concen: 9.408 ppbv
RT: 13.510 min Scan# 4148
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

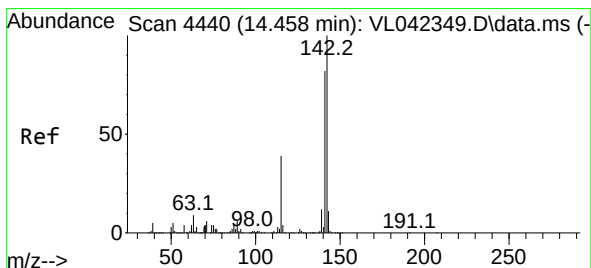
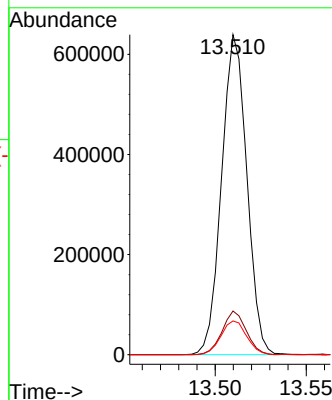
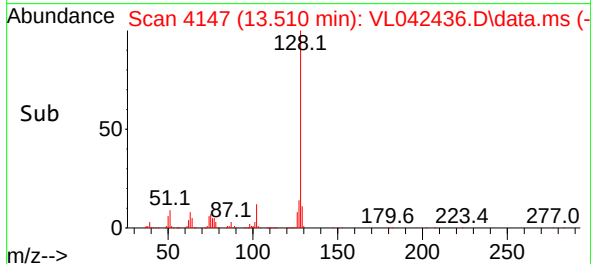
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



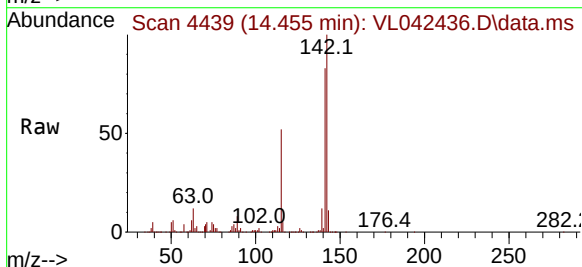
Tgt Ion:128 Resp: 615408
Ion Ratio Lower Upper
128 100
127 13.7 10.6 15.8
129 10.5 8.6 12.8

Manual Integrations
APPROVED

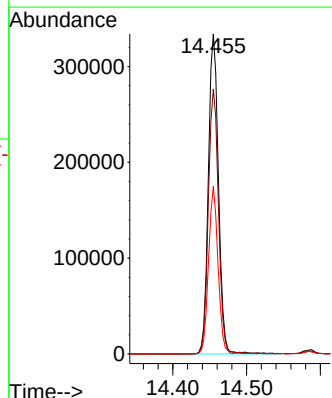
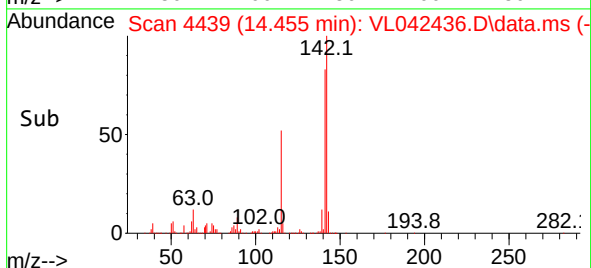
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

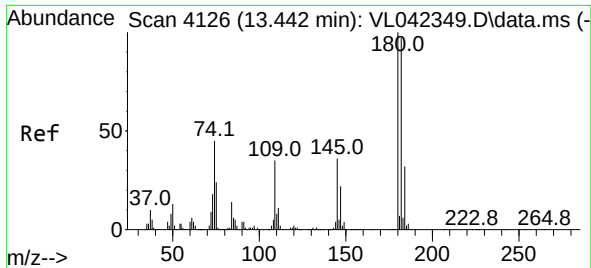


#80
Naphthalene,2-methyl-
Concen: 8.497 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39



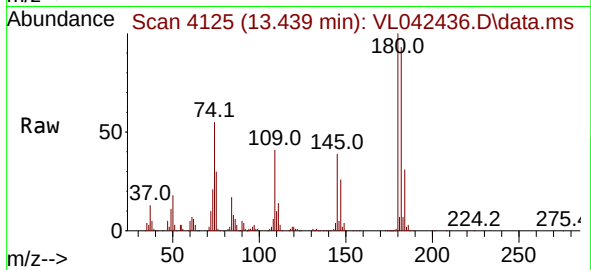
Tgt Ion:142 Resp: 316788
Ion Ratio Lower Upper
142 100
141 83.6 66.8 100.2
115 49.6 33.4 50.2





#81
 1,2,4-Trichlorobenzene
 Concen: 9.363 ppbv
 RT: 13.439 min Scan# 41
 Delta R.T. -0.003 min
 Lab File: VL042436.D
 Acq: 29 Apr 2025 08:39

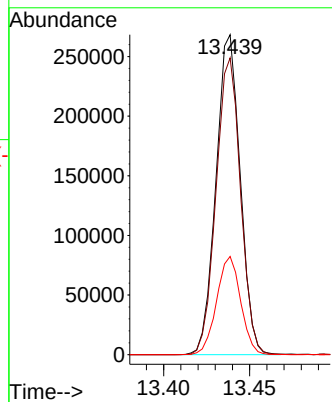
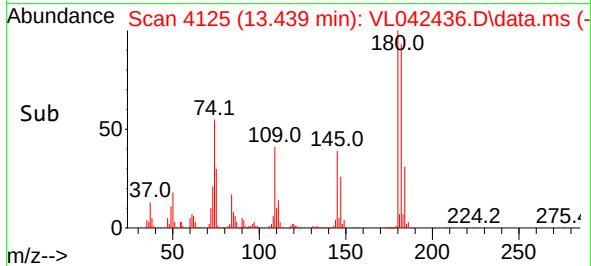
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



Tgt Ion:180 Resp: 263000
 Ion Ratio Lower Upper
 180 100
 182 93.8 76.8 115.2
 184 30.4 24.6 36.8

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/30/2025
 Supervised By :Mahesh Dadoda 04/30/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042925\
 Data File : VL042436.D
 Acq On : 29 Apr 2025 08:39
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Apr 30 01:15:51 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 02:14:00 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	91	0.00
2 T	Dichlorodifluoromethane	1.767	2.050	-16.0	113	0.00
3	Chlorodifluoromethane	1.682	1.641	2.4	95	0.00
4	Chloromethane	0.699	0.788	-12.7	110	0.00
5 T	Vinyl Chloride	0.761	0.756	0.7	108	0.00
6 T	Bromomethane	0.327	0.358	-9.5	108	0.00
7	Chloroethane	0.275	0.307	-11.6	111	0.00
8 T	Dichlorotetrafluoroethane	1.517	1.746	-15.1	111	0.00
9 T	Propene	0.766	0.604	21.1	80	0.00
10 T	Heptane	2.153	1.613	25.1	78	0.00
11 T	Trichlorofluoromethane	1.680	1.990	-18.5	116	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.374	1.502	-9.3	107	0.00
13	Ethanol	0.122	0.038#	68.9#	98	0.00
14 T	Bromoethene	0.518	0.555	-7.1	103	0.00
15 T	Acetone	1.637	1.614	1.4	117	0.00
16 T	1,3-Butadiene	0.783	0.776	0.9	109	0.00
17	tert-Butyl alcohol	2.029	2.005	1.2	101	0.00
18 T	1,1-Dichloroethene	0.642	0.659	-2.6	103	0.00
19 T	Isopropyl Alcohol	0.909	0.890	2.1	99	0.00
20 T	Methylene Chloride	0.641	0.587	8.4	108	0.00
21 T	Allyl Chloride	1.130	1.151	-1.9	108	0.00
22 T	trans-1,2-Dichloroethene	0.731	0.756	-3.4	104	0.00
23 T	Vinyl Acetate	0.663	0.538	18.9	88	0.00
24 T	1,1-Dichloroethane	1.388	1.506	-8.5	107	0.00
25 T	Ethyl Acetate	4.036	3.568	11.6	89	0.00
26 T	Hexane	1.633	1.343	17.8	86	0.00
27 T	Carbon Disulfide	1.749	1.858	-6.2	102	0.00
28 T	Methyl tert-Butyl Ether	1.070	0.996	6.9	97	0.00
29 T	Chloroform	2.309	2.540	-10.0	108	0.00
30 T	Cyclohexane	1.320	1.140	13.6	83	0.00
31 T	cis-1,2-Dichloroethene	1.553	1.525	1.8	95	0.00
32 T	1,1,1-Trichloroethane	2.599	2.727	-4.9	109	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	85	0.00
34 T	2-Butanone	0.791	0.745	5.8	92	0.00
35 T	Carbon Tetrachloride	0.905	1.017	-12.4	112	0.00
36 T	Benzene	1.079	1.010	6.4	86	0.00
37 T	1,2-Dichloroethane	0.647	0.786	-21.5	113	0.00
38 T	Trichloroethene	0.471	0.398	15.5	86	0.00
39 T	1,2-Dichloropropane	0.402	0.354	11.9	81	0.00
40 T	1,4-Dioxane	0.221	0.175	20.8	82	0.00
41 T	Tetrahydrofuran	0.461	0.391	15.2	81	0.00
42 T	Bromodichloromethane	0.901	1.002	-11.2	100	0.00
43	Methyl Methacrylate	0.486	0.407	16.3	80	0.00
44 T	2,2,4-Trimethylpentane	1.863	1.678	9.9	83	0.00
45 T	t-1,3-Dichloropropene	0.497	0.448	9.9	83	0.00
46 T	cis-1,3-Dichloropropene	0.608	0.544	10.5	81	-0.01
47 T	1,1,2-Trichloroethane	0.410	0.415	-1.2	94	0.00
48 T	Dibromochloromethane	0.723	0.748	-3.5	94	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042925\
 Data File : VL042436.D
 Acq On : 29 Apr 2025 08:39
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Apr 30 01:15:51 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 02:14:00 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	0.633	0.607	4.1	84	0.00
50 T	4-Methyl-2-Pentanone	1.314	1.047	20.3	82	0.00
51 T	2-Hexanone	1.179	0.867	26.5	83	0.00
52 T	Tetrachloroethene	0.417	0.327	21.6	78	0.00
53 T	Toluene	1.294	1.161	10.3	83	0.00
54 T	1,2-Dibromoethane	0.586	0.578	1.4	91	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	80	0.00
56	1,1,1,2-Tetrachloroethane	0.605	0.677	-11.9	98	0.00
57 T	Chlorobenzene	1.040	1.049	-0.9	88	0.00
58 T	Ethyl Benzene	1.981	1.988	-0.4	87	0.00
59 T	m/p-Xylene	1.596	1.685	-5.6	92	-0.02
60 T	o-Xylene	1.607	1.718	-6.9	95	0.00
61 T	Styrene	0.767	0.725	5.5	80	0.00
62	Isopropylbenzene	2.360	2.491	-5.6	92	0.00
63 T	1,1,2,2-Tetrachloroethane	1.042	1.010	3.1	92	0.00
64	n-propylbenzene	0.593	0.595	-0.3	88	0.00
65	tert-Butylbenzene	2.169	2.285	-5.3	96	0.00
66 T	Benzyl Chloride	0.238	0.185	22.3	60	0.00
67	sec-Butylbenzene	3.017	3.221	-6.8	97	0.00
68 S	1-Bromo-4-Fluorobenzene	0.822	0.938	-14.1	90	0.00
69	p-Isopropyltoluene	2.621	2.737	-4.4	95	0.00
70	n-Butylbenzene	2.730	2.918	-6.9	98	0.00
71	2-Chlorotoluene	1.851	1.956	-5.7	92	0.00
72 T	4-Ethyltoluene	1.965	2.072	-5.4	94	0.00
73 T	1,3,5-Trimethylbenzene	1.735	1.830	-5.5	96	0.00
74 T	1,2,4-Trimethylbenzene	2.026	2.052	-1.3	98	0.00
75 T	1,3-Dichlorobenzene	1.053	1.056	-0.3	89	0.00
76 T	1,4-Dichlorobenzene	1.059	1.081	-2.1	91	0.00
77 T	1,2-Dichlorobenzene	1.024	1.051	-2.6	93	0.00
78 T	Hexachloro-1,3-Butadiene	1.034	0.976	5.6	90	0.00
79 T	Naphthalene	2.423	2.279	5.9	91	0.00
80 T	Naphthalene,2-methyl-	1.381	1.173	15.1	84	0.00
81 T	1,2,4-Trichlorobenzene	1.040	0.974	6.3	86	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042925\
 Data File : VL042436.D
 Acq On : 29 Apr 2025 08:39
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Apr 30 01:15:51 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 02:14:00 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	91	0.00
2 T	Dichlorodifluoromethane	10.000	11.603	-16.0	113	0.00
3	Chlorodifluoromethane	10.000	9.755	2.4	95	0.00
4	Chloromethane	10.000	11.274	-12.7	110	0.00
5 T	Vinyl Chloride	10.000	9.933	0.7	108	0.00
6 T	Bromomethane	10.000	10.952	-9.5	108	0.00
7	Chloroethane	10.000	11.153	-11.5	111	0.00
8 T	Dichlorotetrafluoroethane	10.000	11.508	-15.1	111	0.00
9 T	Propene	10.000	7.883	21.2	80	0.00
10 T	Heptane	10.000	7.492	25.1	78	0.00
11 T	Trichlorofluoromethane	10.000	11.845	-18.5	116	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	10.934	-9.3	107	0.00
13	Ethanol	10.000	3.108	68.9#	98	0.00
14 T	Bromoethene	10.000	10.721	-7.2	103	0.00
15 T	Acetone	10.000	9.859	1.4	117	0.00
16 T	1,3-Butadiene	10.000	9.910	0.9	109	0.00
17	tert-Butyl alcohol	10.000	9.881	1.2	101	0.00
18 T	1,1-Dichloroethene	10.000	10.263	-2.6	103	0.00
19 T	Isopropyl Alcohol	10.000	9.790	2.1	99	0.00
20 T	Methylene Chloride	10.000	9.161	8.4	108	0.00
21 T	Allyl Chloride	10.000	10.184	-1.8	108	0.00
22 T	trans-1,2-Dichloroethene	10.000	10.343	-3.4	104	0.00
23 T	Vinyl Acetate	10.000	8.115	18.8	88	0.00
24 T	1,1-Dichloroethane	10.000	10.852	-8.5	107	0.00
25 T	Ethyl Acetate	10.000	8.840	11.6	89	0.00
26 T	Hexane	10.000	8.220	17.8	86	0.00
27 T	Carbon Disulfide	10.000	10.622	-6.2	102	0.00
28 T	Methyl tert-Butyl Ether	10.000	9.308	6.9	97	0.00
29 T	Chloroform	10.000	11.002	-10.0	108	0.00
30 T	Cyclohexane	10.000	8.635	13.7	83	0.00
31 T	cis-1,2-Dichloroethene	10.000	9.818	1.8	95	0.00
32 T	1,1,1-Trichloroethane	10.000	10.493	-4.9	109	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	85	0.00
34 T	2-Butanone	10.000	9.426	5.7	92	0.00
35 T	Carbon Tetrachloride	10.000	11.242	-12.4	112	0.00
36 T	Benzene	10.000	9.367	6.3	86	0.00
37 T	1,2-Dichloroethane	10.000	12.134	-21.3	113	0.00
38 T	Trichloroethene	10.000	8.450	15.5	86	0.00
39 T	1,2-Dichloropropane	10.000	8.817	11.8	81	0.00
40 T	1,4-Dioxane	10.000	7.907	20.9	82	0.00
41 T	Tetrahydrofuran	10.000	8.479	15.2	81	0.00
42 T	Bromodichloromethane	10.000	11.127	-11.3	100	0.00
43	Methyl Methacrylate	10.000	8.367	16.3	80	0.00
44 T	2,2,4-Trimethylpentane	10.000	9.010	9.9	83	0.00
45 T	t-1,3-Dichloropropene	10.000	9.026	9.7	83	0.00
46 T	cis-1,3-Dichloropropene	10.000	8.953	10.5	81	-0.01
47 T	1,1,2-Trichloroethane	10.000	10.138	-1.4	94	0.00
48 T	Dibromochloromethane	10.000	10.339	-3.4	94	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042925\
 Data File : VL042436.D
 Acq On : 29 Apr 2025 08:39
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Apr 30 01:15:51 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 02:14:00 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	9.593	4.1	84	0.00
50 T	4-Methyl-2-Pentanone	10.000	7.965	20.4	82	0.00
51 T	2-Hexanone	10.000	7.357	26.4	83	0.00
52 T	Tetrachloroethene	10.000	7.833	21.7	78	0.00
53 T	Toluene	10.000	8.968	10.3	83	0.00
54 T	1,2-Dibromoethane	10.000	9.861	1.4	91	0.00
55 I	Chlorobenzene-d5	10.000	10.000	0.0	80	0.00
56	1,1,1,2-Tetrachloroethane	10.000	11.184	-11.8	98	0.00
57 T	Chlorobenzene	10.000	10.086	-0.9	88	0.00
58 T	Ethyl Benzene	10.000	10.032	-0.3	87	0.00
59 T	m/p-Xylene	20.000	21.110	-5.5	92	-0.02
60 T	o-Xylene	10.000	10.686	-6.9	95	0.00
61 T	Styrene	10.000	9.454	5.5	80	0.00
62	Isopropylbenzene	10.000	10.558	-5.6	92	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	9.699	3.0	92	0.00
64	n-propylbenzene	10.000	10.037	-0.4	88	0.00
65	tert-Butylbenzene	10.000	10.535	-5.4	96	0.00
66 T	Benzyl Chloride	10.000	7.746	22.5	60	0.00
67	sec-Butylbenzene	10.000	10.677	-6.8	97	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	11.413	-14.1	90	0.00
69	p-Isopropyltoluene	10.000	10.442	-4.4	95	0.00
70	n-Butylbenzene	10.000	10.688	-6.9	98	0.00
71	2-Chlorotoluene	10.000	10.571	-5.7	92	0.00
72 T	4-Ethyltoluene	10.000	10.542	-5.4	94	0.00
73 T	1,3,5-Trimethylbenzene	10.000	10.546	-5.5	96	0.00
74 T	1,2,4-Trimethylbenzene	10.000	10.130	-1.3	98	0.00
75 T	1,3-Dichlorobenzene	10.000	10.024	-0.2	89	0.00
76 T	1,4-Dichlorobenzene	10.000	10.210	-2.1	91	0.00
77 T	1,2-Dichlorobenzene	10.000	10.261	-2.6	93	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	9.437	5.6	90	0.00
79 T	Naphthalene	10.000	9.408	5.9	91	0.00
80 T	Naphthalene,2-methyl-	10.000	8.497	15.0	84	0.00
81 T	1,2,4-Trichlorobenzene	10.000	9.363	6.4	86	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



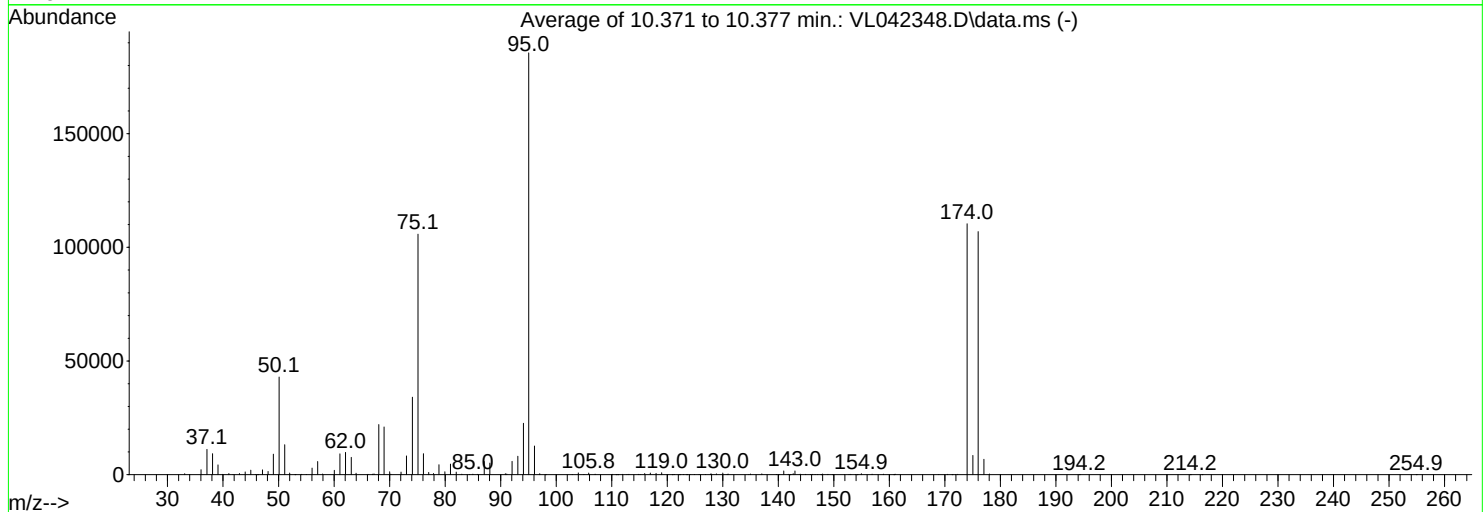
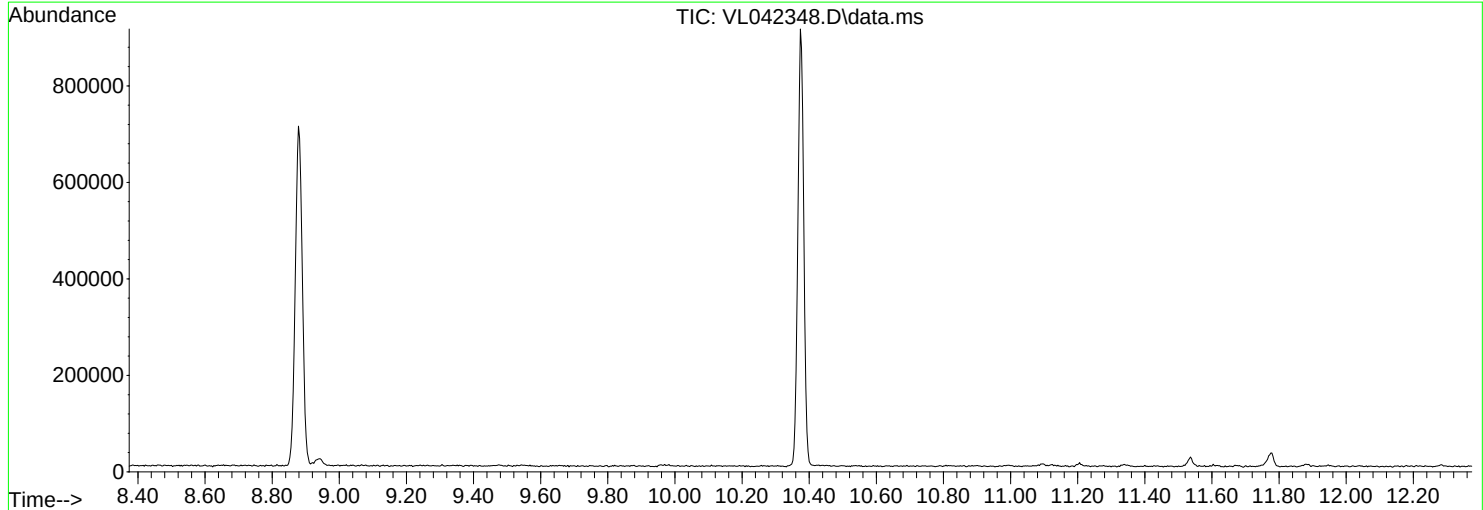
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042348.D
Acq On : 17 Apr 2025 07:50
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\VL041725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Fri Apr 18 02:14:00 2025



AutoFind: Scans 3177, 3178, 3179; Background Corrected with Scan 3162

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	8	40	23.1	42933	PASS
75	95	30	66	57.0	105781	PASS
95	95	100	100	100.0	185564	PASS
96	95	5	9	6.8	12627	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	59.5	110360	PASS
175	174	4	9	7.6	8420	PASS
176	174	93	101	96.9	106933	PASS
177	176	5	9	6.3	6744	PASS

Average of 10.371 to 10.377 min.: VL042348.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
33.10	400	45.00	1996	55.00	78	67.20	32
34.00	54	45.90	94	56.05	2900	68.05	2203
36.05	2214	46.20	34	57.05	5754	69.00	2101
37.10	11145	47.10	2100	57.95	265	70.00	130
38.10	9197	48.10	1438	60.05	1919	70.20	209
39.10	4289	49.05	9045	61.05	9155	72.05	1141
39.95	158	50.10	42933	62.05	9788	73.05	8240
41.05	513	51.10	13188	63.10	7593	74.10	34064
41.80	79	52.00	718	63.95	632	75.10	105781
42.95	504	52.95	9	66.10	115	76.10	9240
44.00	1207	54.15	112	66.90	196	77.05	979

Average of 10.371 to 10.377 min.: VL042348.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
77.90	494	90.85	447	105.00	95	115.95	528
78.90	4344	91.10	262	105.85	680	116.95	712
79.95	1296	92.05	5876	107.00	225	118.00	575
80.95	4648	93.10	8069	110.10	136	119.00	881
82.00	1107	94.10	22619	110.80	37	120.10	70
83.00	249	95.05	185564	111.10	8	120.90	30
84.40	55	96.10	12627	111.95	156	121.30	47
85.00	227	97.05	457	112.75	77	122.20	21
85.85	131	98.05	5	113.10	144	122.95	44
87.05	5767	102.90	78	114.80	135	123.50	25
88.05	5057	104.00	767	115.10	50	124.10	89

Average of 10.371 to 10.377 min.: VL042348.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
124.90	71	137.05	364	146.15	158	153.90	93
125.75	72	139.65	74	146.65	58	154.20	27
126.90	80	140.00	38	147.10	68	154.95	399
127.80	297	141.00	1612	147.70	38	156.90	228
128.00	275	141.80	139	148.00	288	158.95	203
128.85	366	142.10	34	148.95	115	160.80	26
130.00	693	142.70	434	149.80	37	161.05	186
130.80	55	143.00	1656	149.95	79	168.90	83
130.95	285	143.95	200	151.90	60	170.50	119
134.70	94	144.95	161	152.75	91	171.30	19
135.00	292	145.80	67	153.05	144	171.90	90

Average of 10.371 to 10.377 min.: VL042348.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
172.30	132						
174.00	110360						
175.05	8420						
176.00	106933						
177.05	6744						
178.05	298						
194.20	17						
214.20	17						
216.30	17						
254.90	17						

Instrument :

MSVOA_L

ClientSampleId :

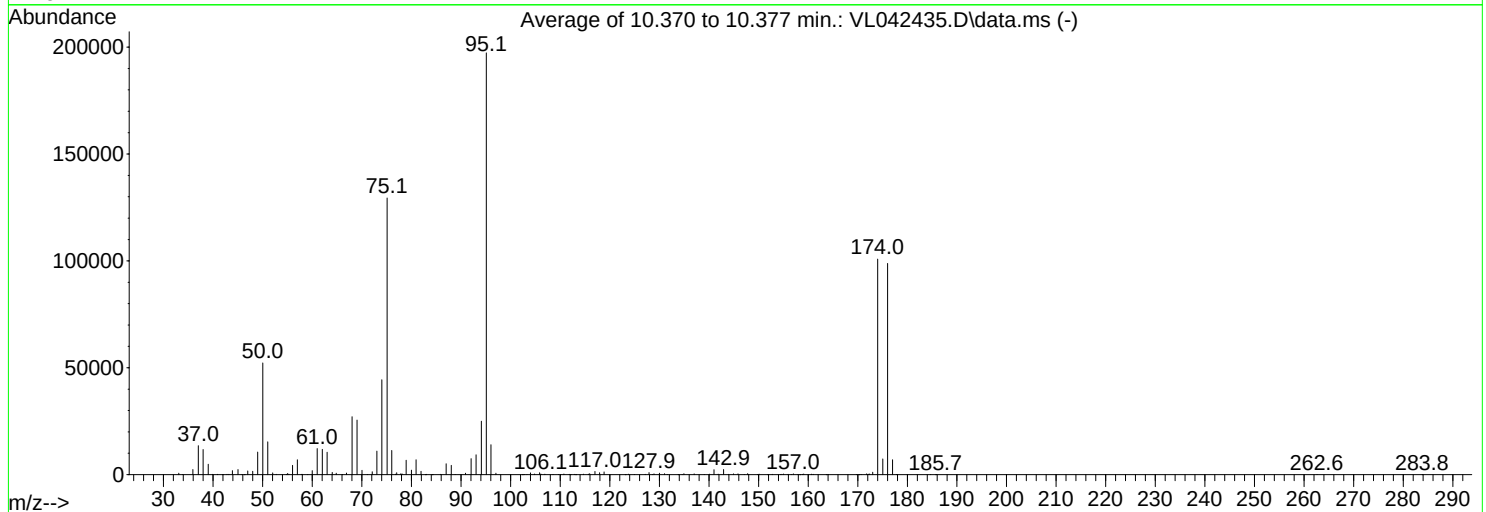
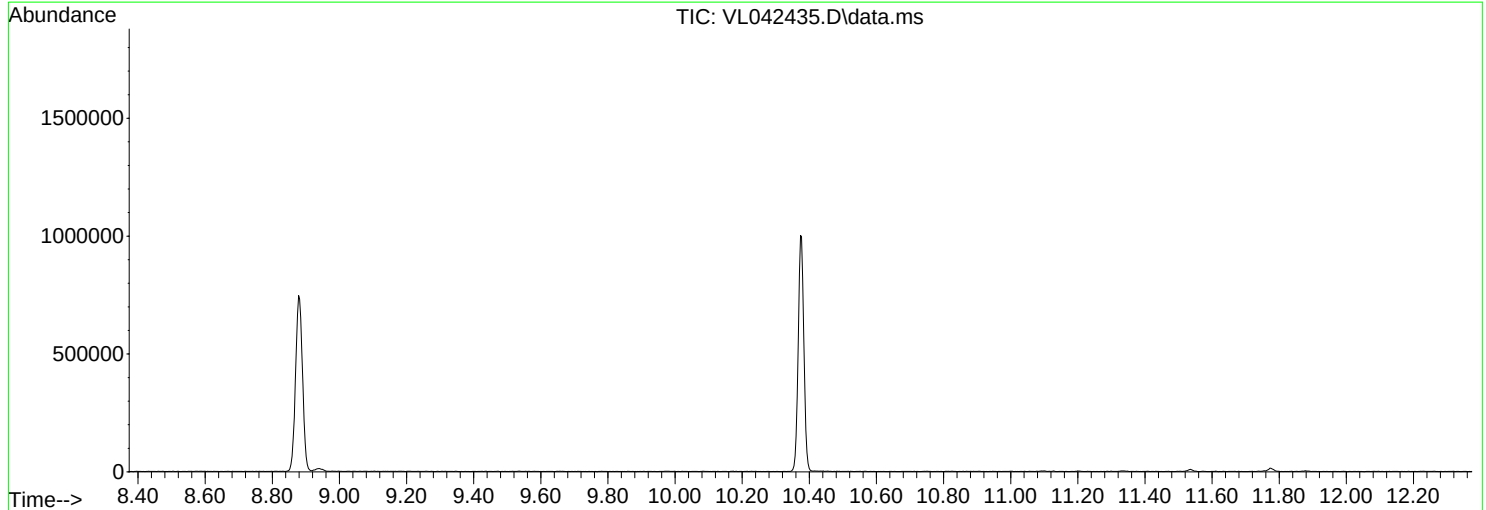
BFB

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042925\
Data File : VL042435.D
Acq On : 29 Apr 2025 07:55
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Fri Apr 18 02:14:00 2025



AutoFind: Scans 3177, 3178, 3179; Background Corrected with Scan 3165

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	26.5	52245	PASS
75	95	30	66	65.6	129440	PASS
95	95	100	100	100.0	197333	PASS
96	95	5	9	7.1	14000	PASS
173	174	0.00	2	1.1	1121	PASS
174	95	50	120	51.1	100867	PASS
175	174	4	9	7.3	7342	PASS
176	174	93	101	98.0	98848	PASS
177	176	5	9	7.0	6939	PASS

Average of 10.370 to 10.377 min.: VL042435.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
33.10	714	43.90	1851	54.80	126	63.00	1048
33.90	68	45.05	2416	55.05	511	64.05	104
35.95	2417	45.85	54	55.30	193	64.85	71
37.05	13537	46.30	32	56.05	4376	66.10	5
38.00	11741	47.00	1705	57.00	6959	66.90	731
39.05	4836	48.00	1585	57.80	154	68.05	27091
39.95	153	49.00	10586	58.00	156	69.05	25563
40.90	123	50.05	52245	59.10	80	70.05	2028
41.90	19	51.05	15372	60.00	1903	71.15	62
42.80	178	52.05	824	61.00	12203	72.10	1333
43.20	122	52.75	183	62.05	11832	73.05	11010

Average of 10.370 to 10.377 min.: VL042435.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
74.05	44413	82.80	30	95.10	197333	108.55	60
75.10	129440	83.05	167	96.05	14000	109.70	112
76.05	11301	84.20	26	97.05	641	110.10	43
76.80	261	85.90	176	102.40	20	110.75	309
77.05	913	87.00	5065	102.80	59	111.80	122
77.85	347	88.05	4373	103.30	48	112.00	37
78.10	350	88.80	65	104.00	827	112.85	189
78.95	6718	90.90	688	104.85	297	113.10	34
80.00	2065	92.05	7462	105.85	911	114.70	193
80.95	6957	93.05	9289	106.10	276	115.70	254
81.95	1614	94.10	24989	106.90	244	115.95	432

Average of 10.370 to 10.377 min.: VL042435.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
117.00	1501	131.05	431	143.95	172	154.70	147
117.95	866	131.60	86	144.95	407	155.05	292
118.85	1300	133.80	30	145.85	387	155.95	124
123.10	17	134.60	57	147.10	90	156.60	42
123.75	238	134.95	433	147.80	478	157.00	394
124.95	43	137.00	365	148.00	169	157.95	107
127.15	148	139.05	59	149.80	98	158.30	35
127.90	953	140.10	228	150.10	201	158.90	143
128.60	76	141.00	2360	151.85	38	159.10	311
128.90	384	141.85	270	152.75	124	160.65	217
130.00	664	142.95	2375	154.40	47	161.00	136

Average of 10.370 to 10.377 min.: VL042435.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
163.65	39	176.00	98848				
164.10	45	177.00	6939				
169.80	75	177.80	93				
170.20	24	178.00	89				
170.70	42	184.70	71				
171.80	400	185.70	21				
172.10	268	262.60	63				
172.40	291	283.80	21				
173.00	1121						
174.00	100867						
175.05	7342						

Instrument :

MSVOA_L

ClientSampleId :

BFB

Report of Analysis

Client:	RMJ Environomics, Inc.	Date Collected:	
Project:	32 Park St Orange NJ	Date Received:	
Client Sample ID:	VL0429ABL01	SDG No.:	Q1908
Lab Sample ID:	VL0429ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042437.D	1		04/29/25 09:25	VL042925

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.21	1.04	U	1.04	2.47	ug/m3
74-87-3	Chloromethane	0.10	0.21	U	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
74-83-9	Bromomethane	0.14	0.54	U	0.54	1.94	ug/m3
75-00-3	Chloroethane	0.17	0.45	U	0.45	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.13	0.38	U	0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.16	0.90	U	0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.16	1.23	U	1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.090	0.63	U	0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.19	0.58	U	0.58	1.52	ug/m3
142-82-5	Heptane	0.11	0.45	U	0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
67-64-1	Acetone	0.24	0.57	U	0.57	1.19	ug/m3
75-15-0	Carbon Disulfide	0.16	0.50	U	0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.12	0.43	U	0.43	1.80	ug/m3
75-09-2	Methylene Chloride	0.19	0.66	U	0.66	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.19	0.75	U	0.75	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02	ug/m3
110-82-7	Cyclohexane	0.22	0.76	U	0.76	1.72	ug/m3
78-93-3	2-Butanone	0.12	0.35	U	0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.010	0.060	U	0.060	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
67-66-3	Chloroform	0.080	0.39	U	0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.10	0.47	U	0.47	2.34	ug/m3
71-43-2	Benzene	0.090	0.29	U	0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.11	0.51	U	0.51	2.31	ug/m3
75-27-4	Bromodichloromethane	0.080	0.54	U	0.54	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.090	0.37	U	0.37	2.05	ug/m3
108-88-3	Toluene	0.11	0.41	U	0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.070	0.38	U	0.38	2.73	ug/m3

Report of Analysis

Client:	RMJ Environomics, Inc.	Date Collected:	
Project:	32 Park St Orange NJ	Date Received:	
Client Sample ID:	VL0429ABL01	SDG No.:	Q1908
Lab Sample ID:	VL0429ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042437.D	1		04/29/25 09:25	VL042925

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.070	0.60	U	0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.070	0.54	U	0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.080	0.37	U	0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	0.12	0.52	U	0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	0.21	0.91	U	0.91	4.34	ug/m3
95-47-6	o-Xylene	0.12	0.52	U	0.52	2.17	ug/m3
100-42-5	Styrene	0.11	0.47	U	0.47	2.13	ug/m3
75-25-2	Bromoform	0.060	0.62	U	0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.010	0.070	U	0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.11	0.57	U	0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.11	0.54	U	0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.080	0.39	U	0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.050	0.30	U	0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.090	0.67	U	0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.090	0.96	U	0.96	5.33	ug/m3
106-99-0	1,3-Butadiene	0.13	0.29	U	0.29	1.11	ug/m3
91-20-3	Naphthalene	0.080	0.42	U	0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	0.12	0.59	U	0.59	2.46	ug/m3
110-54-3	Hexane	0.11	0.39	U	0.39	1.76	ug/m3
107-05-1	Allyl Chloride	0.15	0.47	U	0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	0.21	0.76	U	0.76	1.80	ug/m3
80-62-6	Methyl Methacrylate	0.090	0.37	U	0.37	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.6			70 (65) - 130 (135)	106%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	119000		2.787			
540-36-3	1,4-Difluorobenzene	329000		3.959			
3114-55-4	Chlorobenzene-d5	276000		8.885			

Report of Analysis

Client:	RMJ Environomics, Inc.	Date Collected:	
Project:	32 Park St Orange NJ	Date Received:	
Client Sample ID:	VL0429ABL01	SDG No.:	Q1908
Lab Sample ID:	VL0429ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042437.D	1		04/29/25 09:25	VL042925

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

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\VL042925\
 Data File : VL042437.D
 Acq On : 29 Apr 2025 09:25
 Operator : SY/MD
 Sample : VL0429ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0429ABL01

Quant Time: Apr 30 01:16:50 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 02:14:00 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	119014	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	328601	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	276498	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.377	95	239853	10.556	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.600%

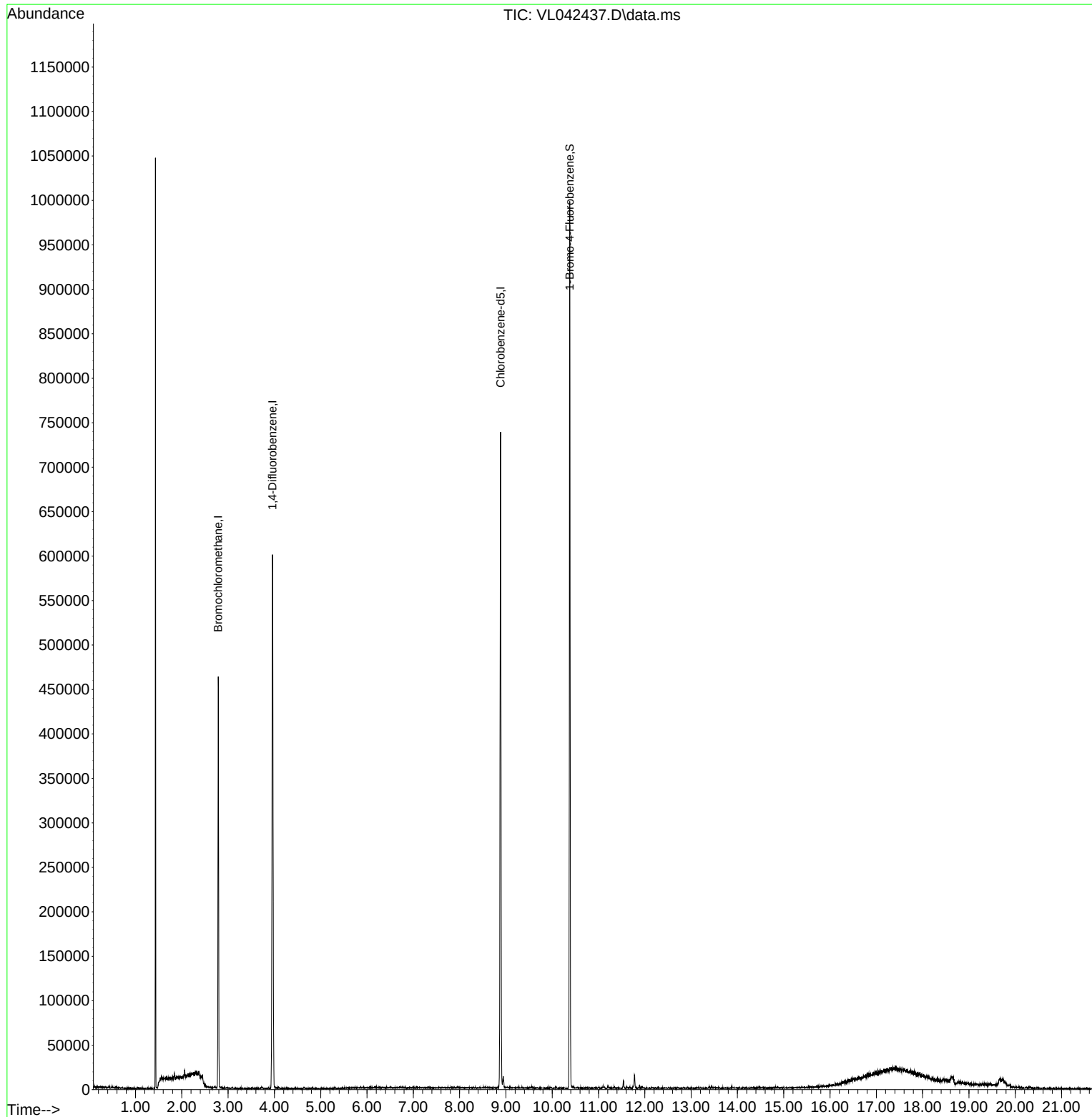
Target Compounds	Qvalue

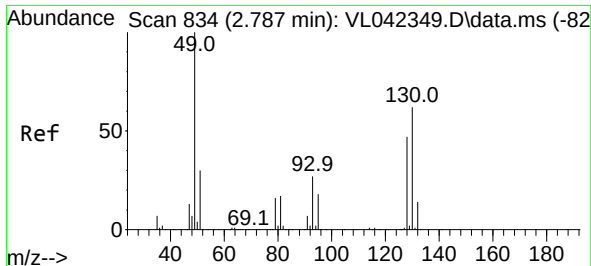
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042925\
Data File : VL042437.D
Acq On : 29 Apr 2025 09:25
Operator : SY/MD
Sample : VL0429ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0429ABL01

Quant Time: Apr 30 01:16:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

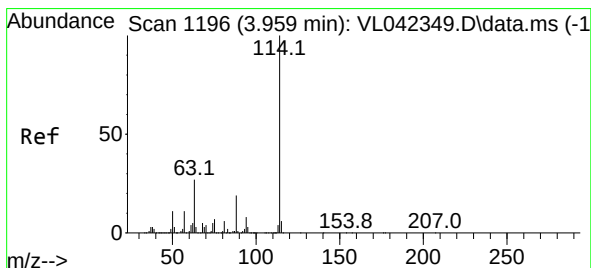
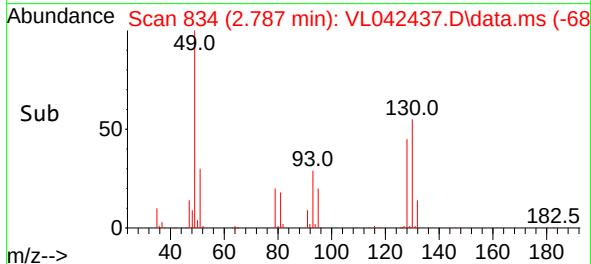
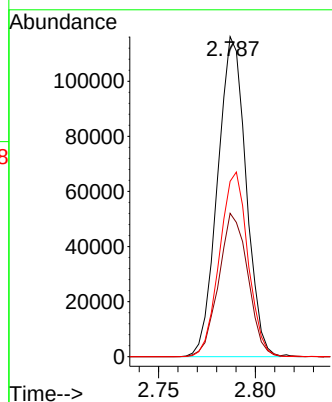
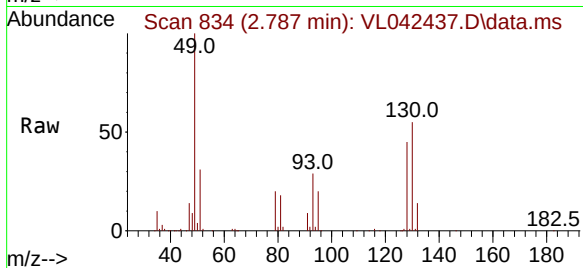




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 834
Delta R.T. -0.000 min
Lab File: VL042437.D
Acq: 29 Apr 2025 09:25

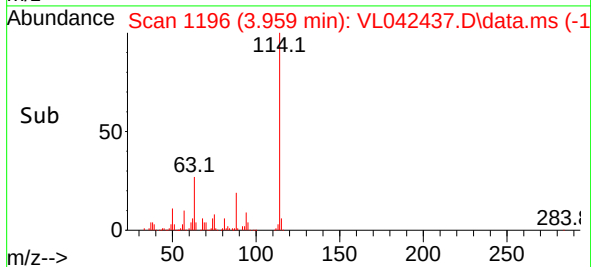
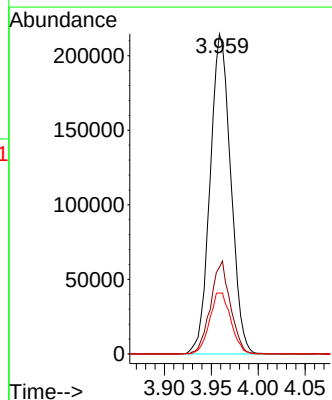
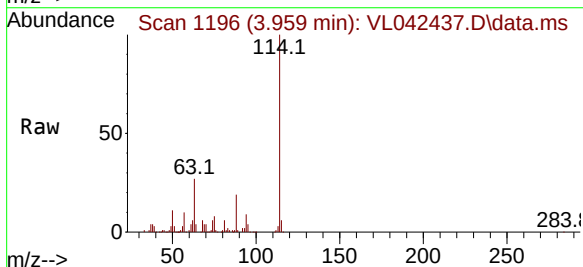
Instrument :
MSVOA_L
ClientSampleId :
VL0429ABL01

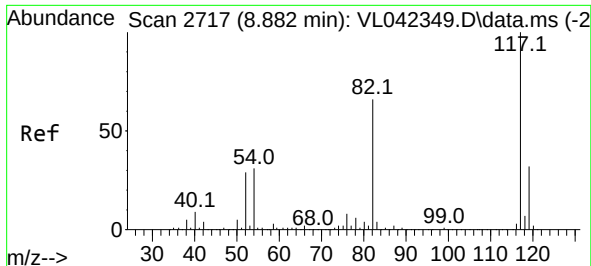
Tgt Ion: 49 Resp: 119014
Ion Ratio Lower Upper
49 100
128 45.8 22.8 68.4
130 57.6 29.3 88.0



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.000 min
Lab File: VL042437.D
Acq: 29 Apr 2025 09:25

Tgt Ion: 114 Resp: 328601
Ion Ratio Lower Upper
114 100
63 27.9 21.8 32.6
88 19.7 15.5 23.3

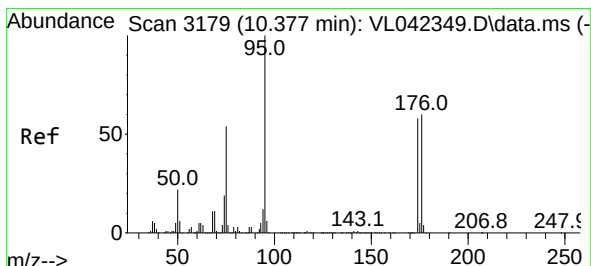
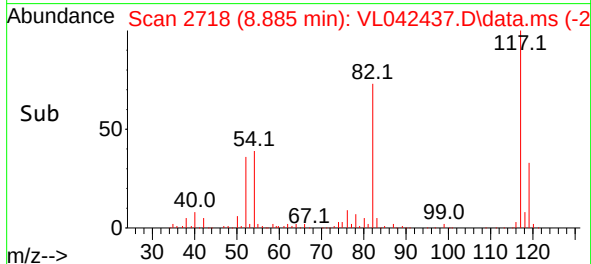
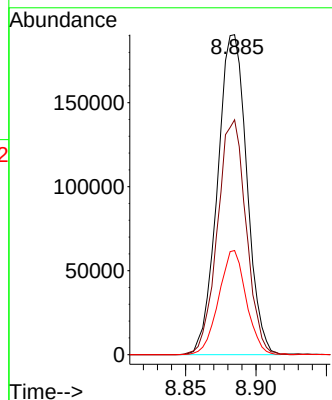
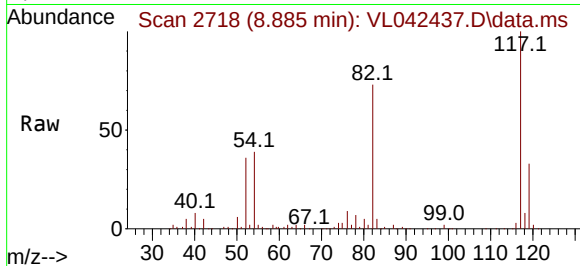




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2117
Delta R.T. 0.003 min
Lab File: VL042437.D
Acq: 29 Apr 2025 09:25

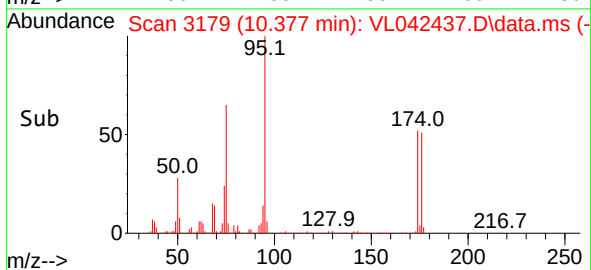
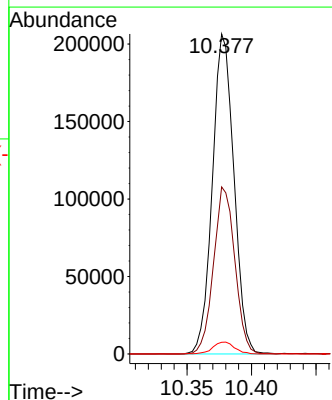
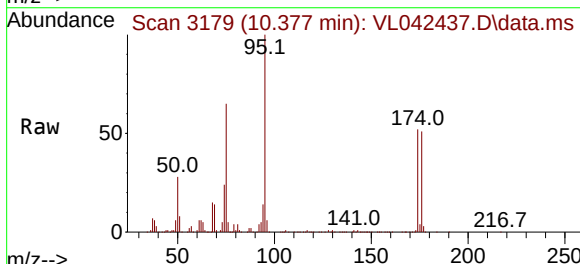
Instrument :
MSVOA_1
ClientSampleId :
VL0429ABL01

Tgt Ion:117 Resp: 276498
Ion Ratio Lower Upper
117 100
82 71.6 57.8 86.6
119 30.6 25.2 37.8



#68
1-Bromo-4-Fluorobenzene
Concen: 10.556 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. -0.000 min
Lab File: VL042437.D
Acq: 29 Apr 2025 09:25

Tgt Ion: 95 Resp: 239853
Ion Ratio Lower Upper
95 100
174 51.8 48.5 72.7
175 3.8 3.7 5.5



Report of Analysis

Client:	RMJ Environomics, Inc.	Date Collected:	
Project:	32 Park St Orange NJ	Date Received:	
Client Sample ID:	VL0429ABS01	SDG No.:	Q1908
Lab Sample ID:	VL0429ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042438.D	1		04/29/25 10:08	VL042925

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	11.6	57.4		1.04	2.47	ug/m3
74-87-3	Chloromethane	11.0	22.7		0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	9.60	24.5		0.030	0.080	ug/m3
74-83-9	Bromomethane	10.7	41.5		0.54	1.94	ug/m3
75-00-3	Chloroethane	10.5	27.7		0.45	1.32	ug/m3
109-99-9	Tetrahydrofuran	8.50	25.1		0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	11.5	64.6		0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	10.9	83.5		1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	11.2	78.3		0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	9.70	29.4		0.58	1.52	ug/m3
142-82-5	Heptane	7.60	31.1		0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	10.2	40.4		0.56	1.98	ug/m3
67-64-1	Acetone	9.90	23.5		0.57	1.19	ug/m3
75-15-0	Carbon Disulfide	10.4	32.4		0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	9.30	33.5		0.43	1.80	ug/m3
75-09-2	Methylene Chloride	9.00	31.3		0.66	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	9.90	39.3		0.75	1.98	ug/m3
75-34-3	1,1-Dichloroethane	10.9	44.1		0.53	2.02	ug/m3
110-82-7	Cyclohexane	8.60	29.6		0.76	1.72	ug/m3
78-93-3	2-Butanone	9.30	27.4		0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	11.0	69.2		0.060	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	9.60	38.1		0.36	1.98	ug/m3
67-66-3	Chloroform	10.6	51.8		0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	10.3	56.2		0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	9.00	42.0		0.47	2.34	ug/m3
71-43-2	Benzene	9.30	29.7		0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	12.0	48.6		0.36	2.02	ug/m3
79-01-6	Trichloroethene	8.50	45.7		0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	9.00	41.6		0.51	2.31	ug/m3
75-27-4	Bromodichloromethane	11.1	74.4		0.54	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	7.80	32.0		0.37	2.05	ug/m3
108-88-3	Toluene	8.80	33.2		0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	8.90	40.4		0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	8.80	40.0		0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	9.90	54.0		0.38	2.73	ug/m3

Report of Analysis

Client:	RMJ Environomics, Inc.	Date Collected:	
Project:	32 Park St Orange NJ	Date Received:	
Client Sample ID:	VL0429ABS01	SDG No.:	Q1908
Lab Sample ID:	VL0429ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042438.D	1		04/29/25 10:08	VL042925

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	10.2	86.9		0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	9.60	73.8		0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	8.00	54.3		0.14	0.20	ug/m3
108-90-7	Chlorobenzene	10.3	47.4		0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	10.1	43.9		0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	20.9	90.8		0.91	4.34	ug/m3
95-47-6	o-Xylene	10.6	46.0		0.52	2.17	ug/m3
100-42-5	Styrene	9.20	39.2		0.47	2.13	ug/m3
75-25-2	Bromoform	9.40	97.2		0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	9.80	67.3		0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	10.6	54.9		0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	10.4	51.1		0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	9.90	48.7		0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	9.90	59.5		0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	9.90	59.5		0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	10.1	60.7		0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	9.50	70.5		0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	10.0	107		0.96	5.33	ug/m3
106-99-0	1,3-Butadiene	9.90	21.9		0.29	1.11	ug/m3
91-20-3	Naphthalene	9.40	49.3		0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	10.4	51.1		0.59	2.46	ug/m3
110-54-3	Hexane	8.30	29.3		0.39	1.76	ug/m3
107-05-1	Allyl Chloride	9.90	31.0		0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	7.50	27.0		0.76	1.80	ug/m3
80-62-6	Methyl Methacrylate	8.00	32.8		0.37	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	11.3			70 (65) - 130 (135)	113%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	117000		2.79			
540-36-3	1,4-Difluorobenzene	318000		3.962			
3114-55-4	Chlorobenzene-d5	272000		8.881			

Report of Analysis

Client:	RMJ Environomics, Inc.	Date Collected:	
Project:	32 Park St Orange NJ	Date Received:	
Client Sample ID:	VL0429ABS01	SDG No.:	Q1908
Lab Sample ID:	VL0429ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042438.D	1		04/29/25 10:08	VL042925

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

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\VL042925\
 Data File : VL042438.D
 Acq On : 29 Apr 2025 10:08
 Operator : SY/MD
 Sample : VL0429ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0429ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/30/2025
 Supervised By :Mahesh Dadoda 04/30/2025

Quant Time: Apr 30 01:17:14 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

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

QLast Update : Fri Apr 18 02:14:00 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	116772	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	317590	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.881	117	272312	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 253021 11.307 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 113.100%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	238539	11.562	ppbv	96
3) Chlorodifluoromethane	1.476	51	192670	9.807	ppbv	92
4) Chloromethane	1.534	50	89832	11.003	ppbv	94
5) Vinyl Chloride	1.580	62	85334	9.601	ppbv	99
6) Bromomethane	1.667	94	40758	10.676	ppbv	94
7) Chloroethane	1.706	64	33756	10.502	ppbv	97
8) Dichlorotetrafluoroethane	1.554	85	198106	11.184	ppbv	95
9) Propene	1.486	41	70111	7.836	ppbv	97
10) Heptane	4.981	43	190583	7.582	ppbv	99
11) Trichlorofluoromethane	1.877	101	225308	11.484	ppbv	99
12) 1,1,2-Trichlorotrifluoro...	2.140	101	174111	10.854	ppbv	97
13) Ethanol	1.722	45	4137	2.909	ppbv	90
14) Bromoethene	1.783	108	64544	10.674	ppbv #	98
15) Acetone	1.835	43	189432	9.910	ppbv	98
16) 1,3-Butadiene	1.609	39	90473	9.895	ppbv	93
17) tert-Butyl alcohol	2.042	59	230217	9.718	ppbv	99
18) 1,1-Dichloroethene	2.036	96	76749	10.241	ppbv	96
19) Isopropyl Alcohol	1.887	45	103692	9.765	ppbv #	36
20) Methylene Chloride	2.062	84	67298	8.989	ppbv	91
21) Allyl Chloride	2.097	41	130014	9.851	ppbv	95
22) trans-1,2-Dichloroethene	2.340	96	84797	9.938	ppbv	90
23) Vinyl Acetate	2.463	43	61036	7.888	ppbv #	95
24) 1,1-Dichloroethane	2.408	63	177233	10.934	ppbv	98
25) Ethyl Acetate	2.839	43	416465	8.836	ppbv	99
26) Hexane	2.826	57	157544	8.260	ppbv	97
27) Carbon Disulfide	2.149	76	211824	10.372	ppbv	99
28) Methyl tert-Butyl Ether	2.441	73	116769	9.344	ppbv	94
29) Chloroform	2.852	83	286397	10.623	ppbv	96
30) Cyclohexane	3.858	84	132615	8.601	ppbv	95
31) cis-1,2-Dichloroethene	2.722	61	174328	9.613	ppbv	99
32) 1,1,1-Trichloroethane	3.369	97	312429	10.294	ppbv	99
34) 2-Butanone	2.560	43	233037	9.278	ppbv	98
35) Carbon Tetrachloride	3.764	117	317207	11.036	ppbv	93
36) Benzene	3.658	78	317350	9.264	ppbv	96
37) 1,2-Dichloroethane	3.221	62	247446	12.035	ppbv #	96
38) Trichloroethene	4.551	130	127601	8.523	ppbv	91
39) 1,2-Dichloropropane	4.318	63	115449	9.044	ppbv	92
40) 1,4-Dioxane	4.586	88	52820	7.529	ppbv #	92
41) Tetrahydrofuran	3.055	42	124059	8.471	ppbv	98
42) Bromodichloromethane	4.493	83	317253	11.088	ppbv	99
43) Methyl Methacrylate	4.881	69	123817m	8.020	ppbv	
44) 2,2,4-Trimethylpentane	4.641	57	531439	8.983	ppbv	95
45) t-1,3-Dichloropropene	6.418	75	140981	8.940	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042925\
 Data File : VL042438.D
 Acq On : 29 Apr 2025 10:08
 Operator : SY/MD
 Sample : VL0429ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0429ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/30/2025
 Supervised By :Mahesh Dadoda 04/30/2025

Quant Time: Apr 30 01:17:14 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

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

QLast Update : Fri Apr 18 02:14:00 2025

Response via : Initial Calibration

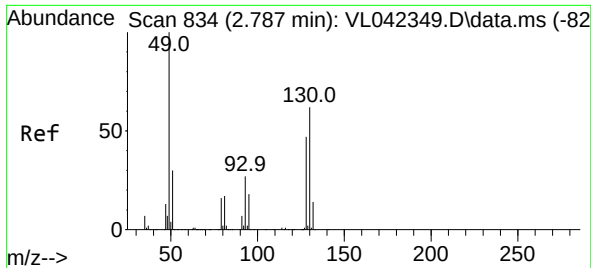
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.606	75	170063	8.811	ppbv #	84
47) 1,1,2-Trichloroethane	6.583	97	128662	9.893	ppbv	95
48) Dibromochloromethane	7.389	129	233350	10.156	ppbv	100
49) Bromoform	9.487	173	189484	9.431	ppbv	99
50) 4-Methyl-2-Pentanone	5.755	43	327508	7.846	ppbv	98
51) 2-Hexanone	7.438	43	262697	7.018	ppbv #	95
52) Tetrachloroethene	8.228	164	106031	8.008	ppbv	90
53) Toluene	6.936	91	363707	8.848	ppbv	99
54) 1,2-Dibromoethane	7.658	107	178709	9.601	ppbv	96
56) 1,1,1,2-Tetrachloroethane	8.930	131	180979	10.981	ppbv	96
57) Chlorobenzene	8.924	112	290861	10.270	ppbv	99
58) Ethyl Benzene	9.357	91	545497	10.111	ppbv	98
59) m/p-Xylene	9.555	91	906532m	20.857	ppbv	
60) o-Xylene	9.966	91	465645	10.639	ppbv	94
61) Styrene	9.872	104	191741	9.178	ppbv	97
62) Isopropylbenzene	10.542	105	667839	10.393	ppbv	97
63) 1,1,2,2-Tetrachloroethane	9.966	83	278491	9.819	ppbv	99
64) n-propylbenzene	10.992	120	161309	9.987	ppbv	91
65) tert-Butylbenzene	11.535	119	605972	10.260	ppbv	98
66) Benzyl Chloride	11.620	91	46913	7.229	ppbv	99
67) sec-Butylbenzene	11.772	105	868275	10.569	ppbv	98
69) p-Isopropyltoluene	11.927	119	733796	10.282	ppbv	96
70) n-Butylbenzene	12.283	91	796622	10.717	ppbv	98
71) 2-Chlorotoluene	10.904	91	534951	10.614	ppbv	96
72) 4-Ethyltoluene	11.128	105	553879	10.351	ppbv	97
73) 1,3,5-Trimethylbenzene	11.205	105	491459	10.403	ppbv	95
74) 1,2,4-Trimethylbenzene	11.539	105	548408	9.939	ppbv #	86
75) 1,3-Dichlorobenzene	11.610	146	284809	9.931	ppbv	97
76) 1,4-Dichlorobenzene	11.675	146	285571	9.907	ppbv	98
77) 1,2-Dichlorobenzene	11.950	146	282424	10.128	ppbv	96
78) Hexachloro-1,3-Butadiene	13.885	225	280954	9.977	ppbv	98
79) Naphthalene	13.516	128	621879	9.425	ppbv	100
80) Naphthalene,2-methyl-	14.458	142	312733	8.317	ppbv	95
81) 1,2,4-Trichlorobenzene	13.442	180	269082	9.498	ppbv	99

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

Manual Integrations

Quant Time: Apr 30 01:17:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration





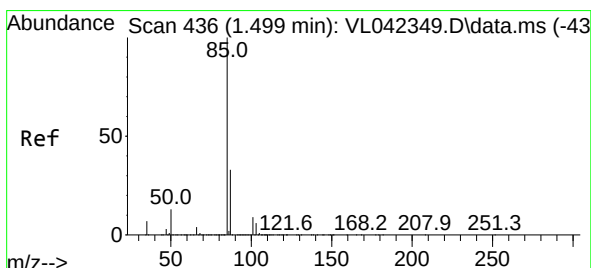
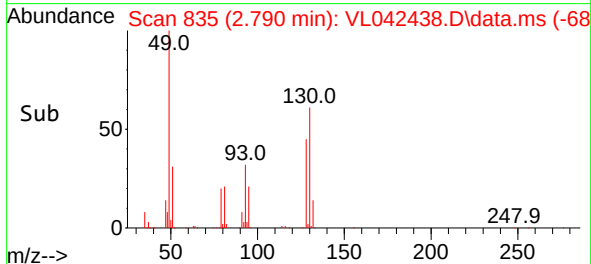
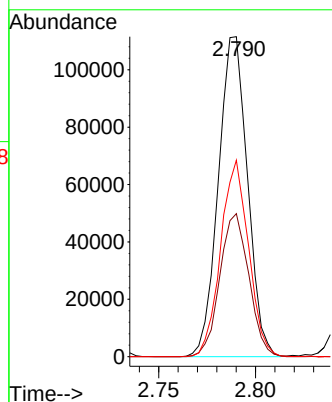
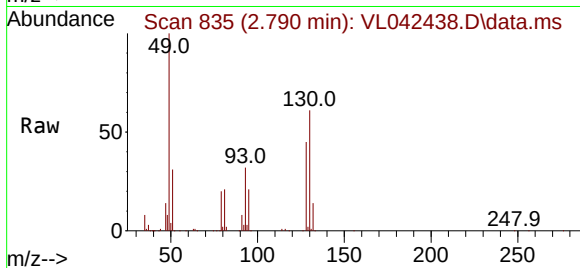
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 834
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VL0429ABS01

Tgt Ion: 49 Resp: 116772
Ion Ratio Lower Upper
49 100
128 44.5 22.8 68.4
130 58.8 29.3 88.0

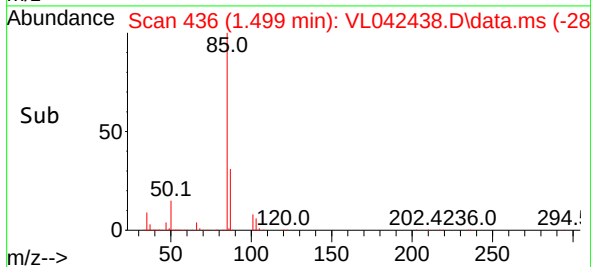
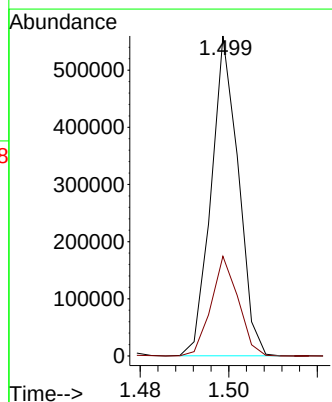
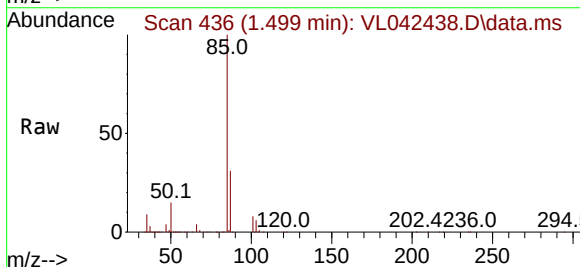
Manual Integrations
APPROVED

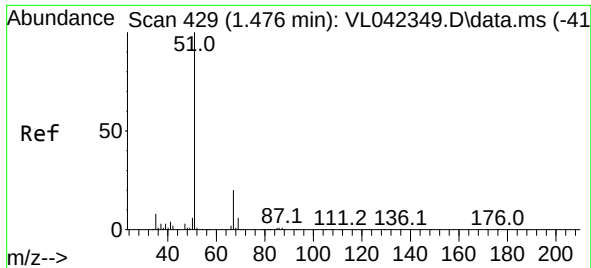
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025



#2
Dichlorodifluoromethane
Concen: 11.562 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 85 Resp: 238539
Ion Ratio Lower Upper
85 100
87 31.2 26.6 39.8





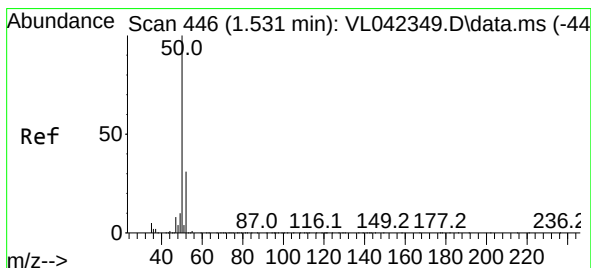
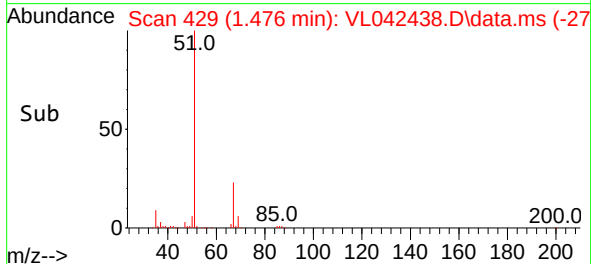
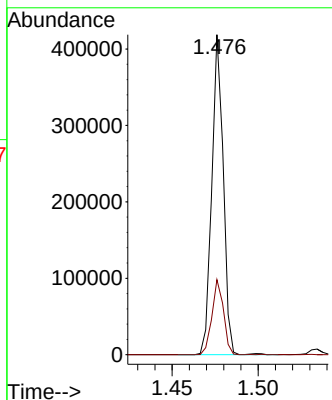
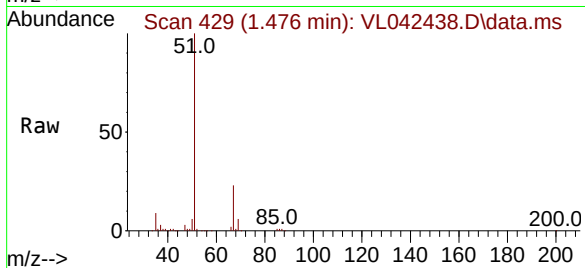
#3
Chlorodifluoromethane
Concen: 9.807 ppbv
RT: 1.476 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VL0429ABS01

Tgt Ion: 51 Resp: 192670
Ion Ratio Lower Upper
51 100
67 23.8 16.2 24.4

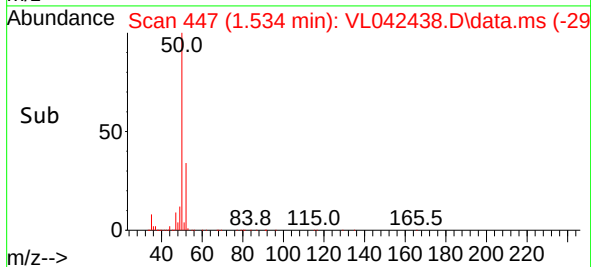
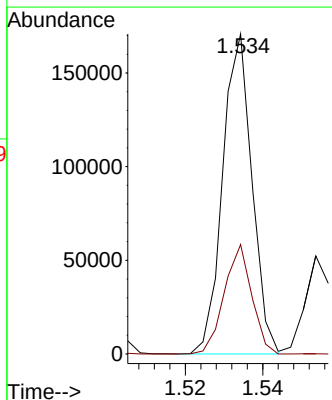
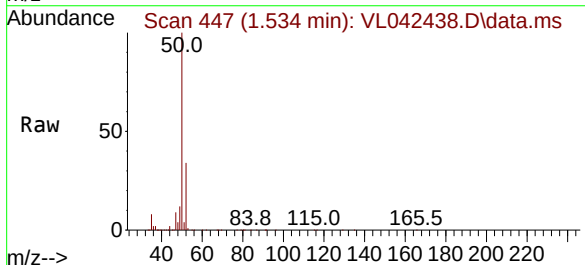
Manual Integrations
APPROVED

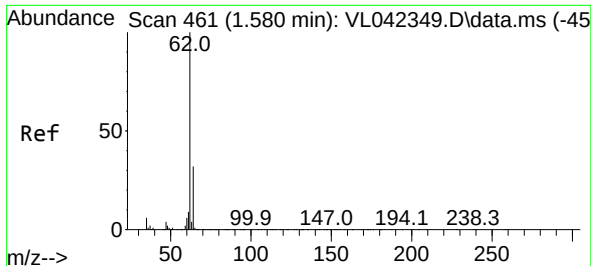
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025



#4
Chloromethane
Concen: 11.003 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

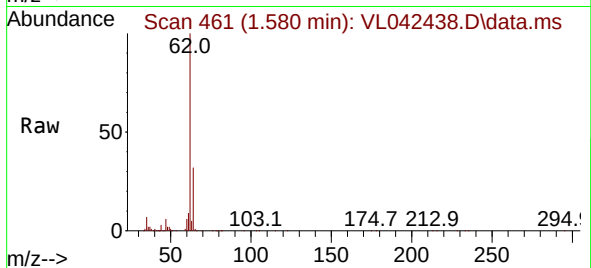
Tgt Ion: 50 Resp: 89832
Ion Ratio Lower Upper
50 100
52 34.2 24.7 37.1





#5
 Vinyl Chloride
 Concen: 9.601 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. -0.000 min
 Lab File: VL042438.D
 Acq: 29 Apr 2025 10:08

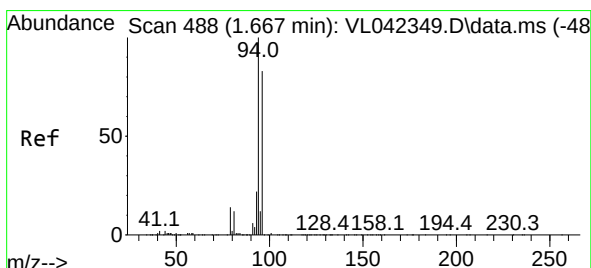
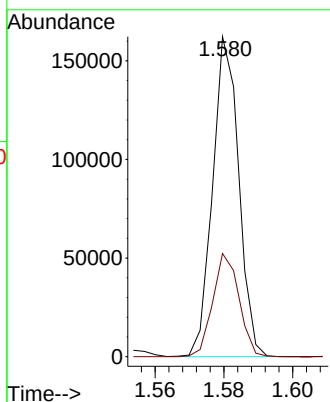
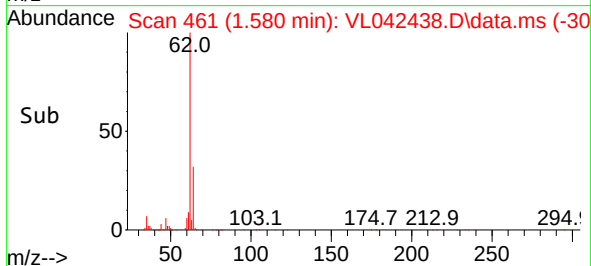
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0429ABS01



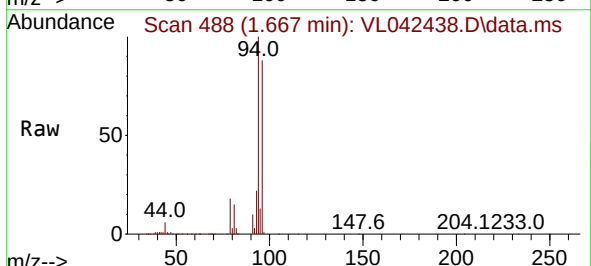
Tgt Ion: 62 Resp: 85334
 Ion Ratio Lower Upper
 62 100
 64 32.3 25.4 38.0

Manual Integrations
 APPROVED

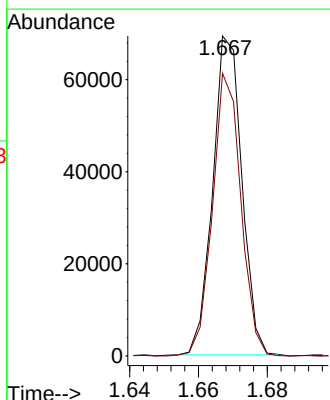
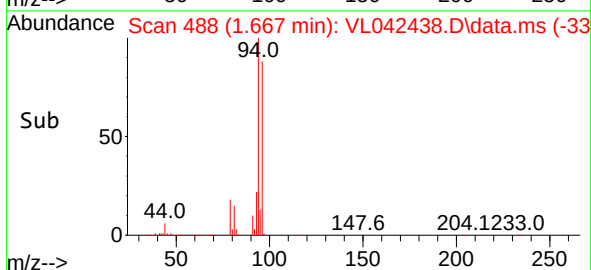
Reviewed By :Semsettin Yesilyurt 04/30/2025
 Supervised By :Mahesh Dadoda 04/30/2025

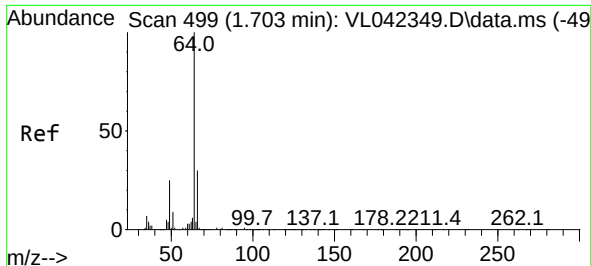


#6
 Bromomethane
 Concen: 10.676 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. -0.000 min
 Lab File: VL042438.D
 Acq: 29 Apr 2025 10:08



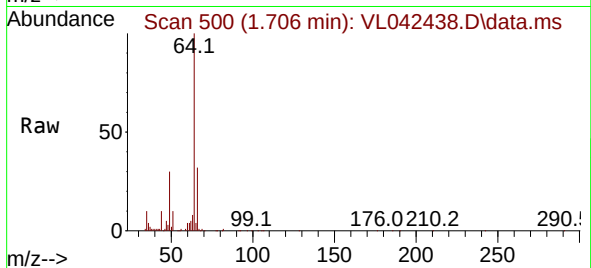
Tgt Ion: 94 Resp: 40758
 Ion Ratio Lower Upper
 94 100
 96 88.5 66.2 99.2





#7
Chloroethane
Concen: 10.502 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

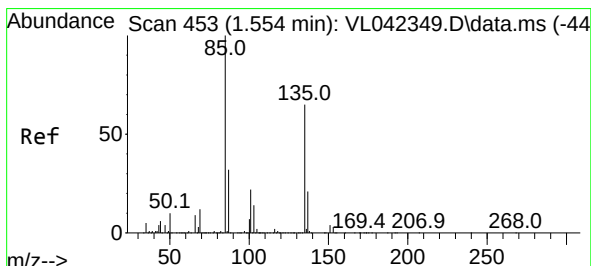
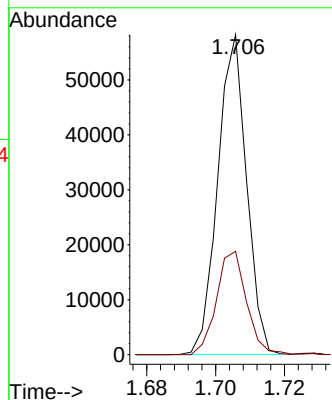
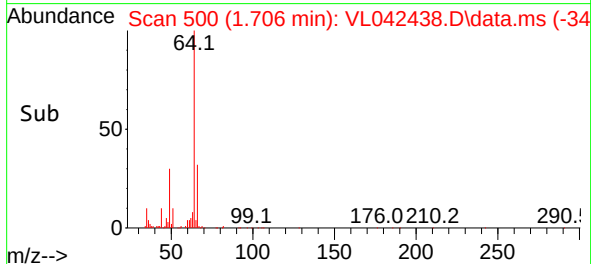
Instrument :
MSVOA_L
ClientSampleId :
VL0429ABS01



Tgt Ion: 64 Resp: 33750
Ion Ratio Lower Upper
64 100
66 32.3 24.6 37.0

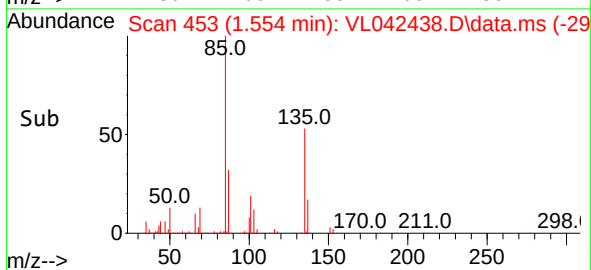
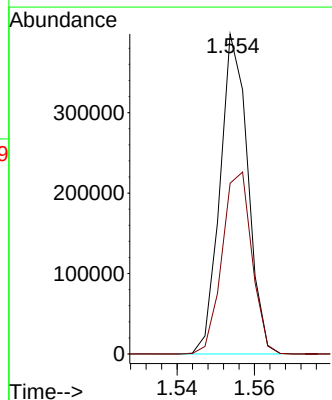
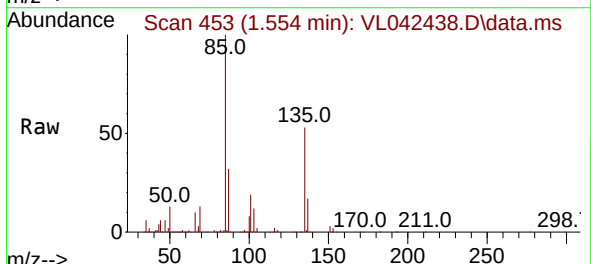
Manual Integrations
APPROVED

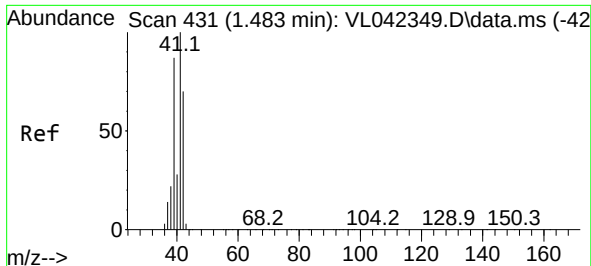
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025



#8
Dichlorotetrafluoroethane
Concen: 11.184 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 85 Resp: 198106
Ion Ratio Lower Upper
85 100
135 61.2 52.2 78.2





#9

Propene

Concen: 7.836 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

VL0429ABS01

Tgt Ion: 41 Resp: 7011

Ion Ratio Lower Upper

41 100

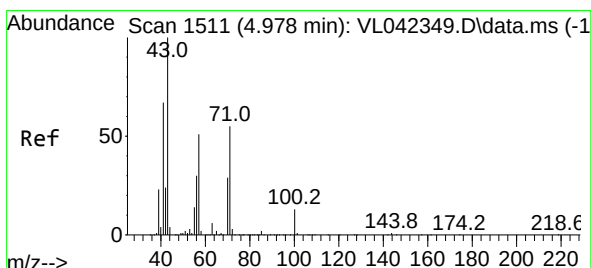
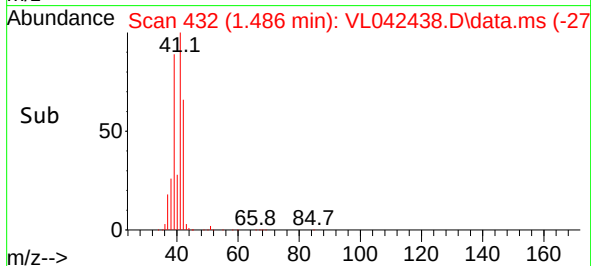
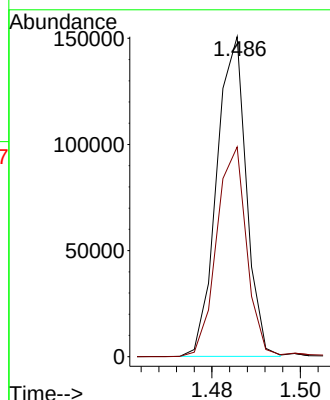
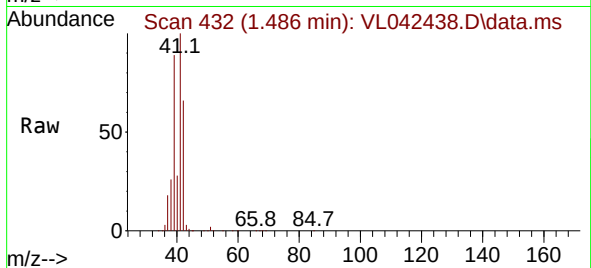
42 67.7 56.2 84.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/30/2025

Supervised By :Mahesh Dadoda 04/30/2025



#10

Heptane

Concen: 7.582 ppbv

RT: 4.981 min Scan# 1512

Delta R.T. 0.003 min

Lab File: VL042438.D

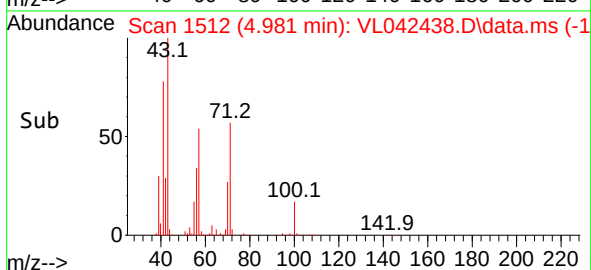
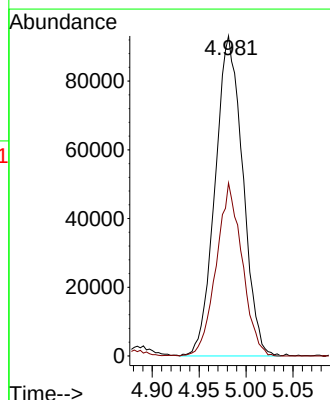
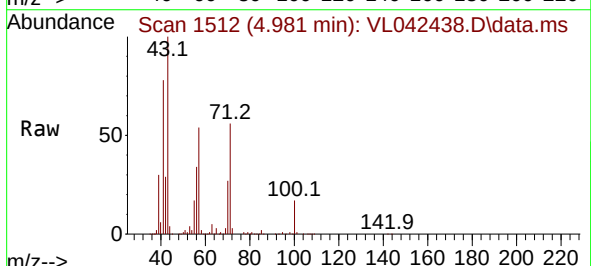
Acq: 29 Apr 2025 10:08

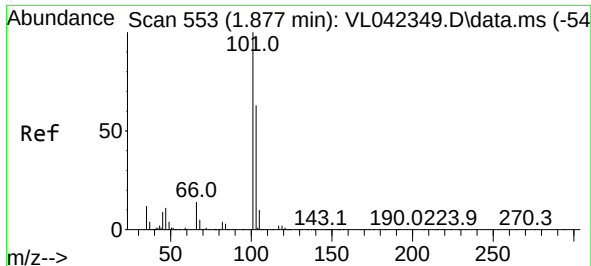
Tgt Ion: 43 Resp: 190583

Ion Ratio Lower Upper

43 100

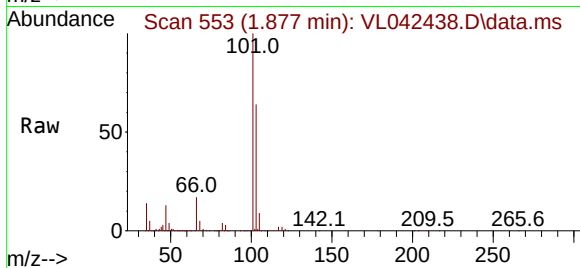
57 50.6 39.9 59.9





#11
 Trichlorofluoromethane
 Concen: 11.484 ppbv
 RT: 1.877 min Scan# 553
 Delta R.T. -0.000 min
 Lab File: VL042438.D
 Acq: 29 Apr 2025 10:08

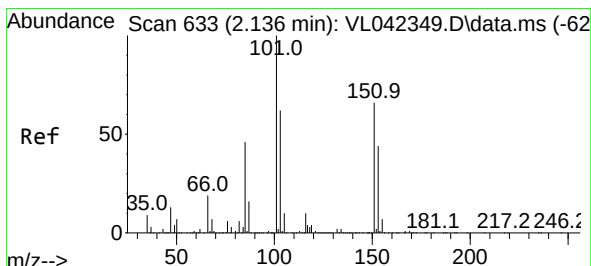
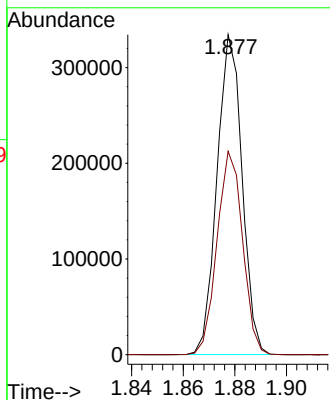
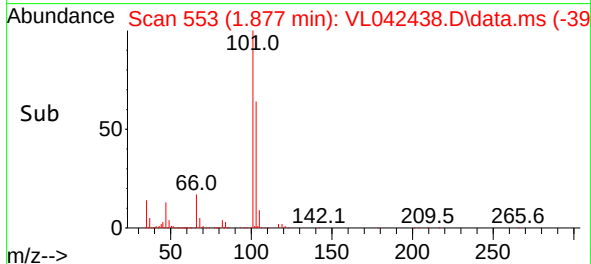
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0429ABS01



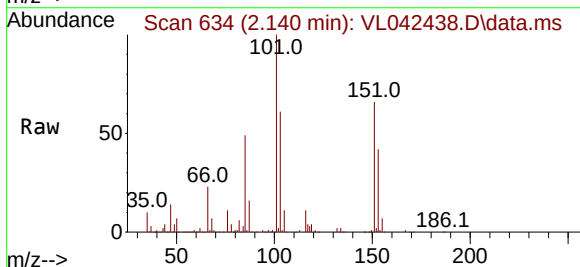
Tgt Ion:101 Resp: 225308
 Ion Ratio Lower Upper
 101 100
 103 63.6 50.1 75.1

Manual Integrations
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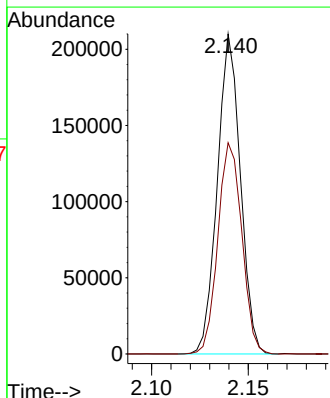
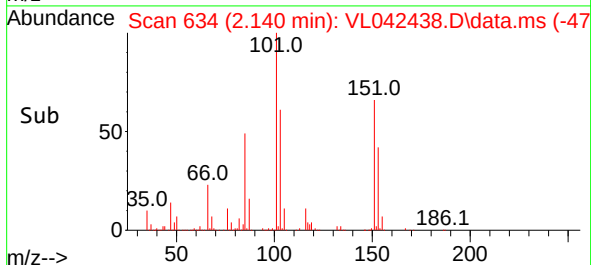
Reviewed By :Semsettin Yesilyurt 04/30/2025
 Supervised By :Mahesh Dadoda 04/30/2025

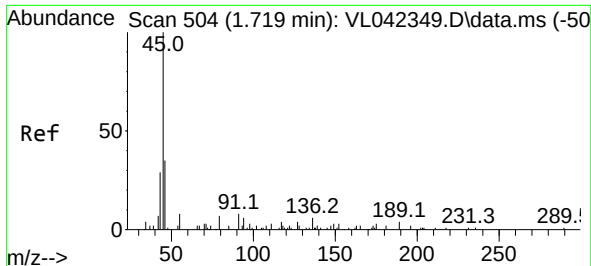


#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 10.854 ppbv
 RT: 2.140 min Scan# 634
 Delta R.T. 0.003 min
 Lab File: VL042438.D
 Acq: 29 Apr 2025 10:08



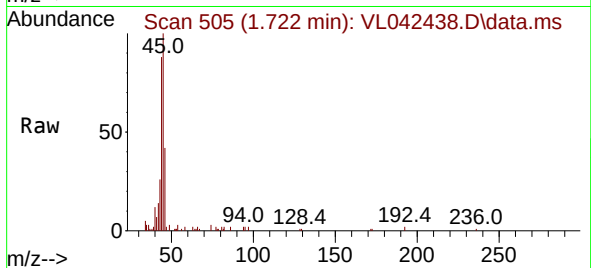
Tgt Ion:101 Resp: 174111
 Ion Ratio Lower Upper
 101 100
 151 68.5 57.0 85.6





#13
Ethanol
Concen: 2.909 ppbv
RT: 1.722 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

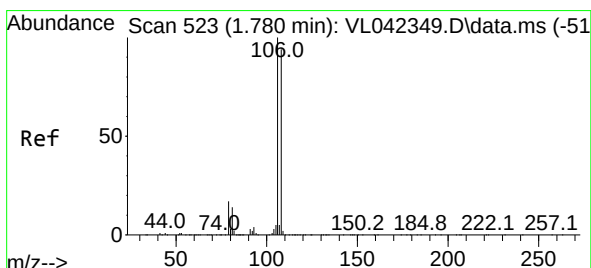
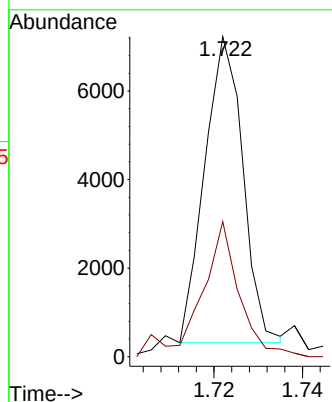
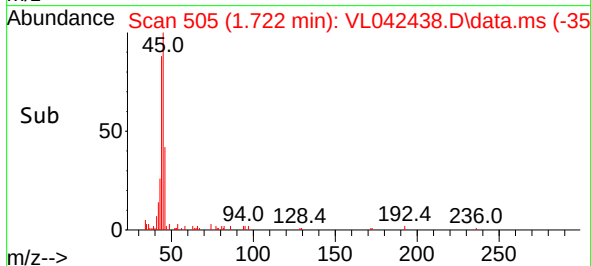
Instrument :
MSVOA_L
ClientSampleId :
VL0429ABS01



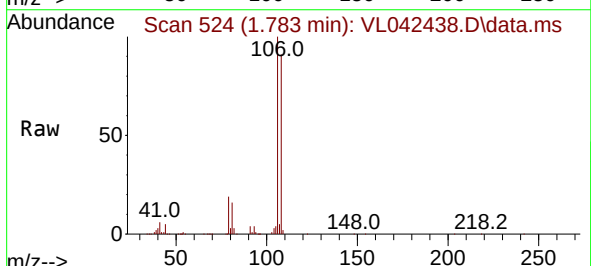
Tgt Ion: 45 Resp: 413
Ion Ratio Lower Upper
45 100
46 47.5 21.9 87.7

Manual Integrations
APPROVED

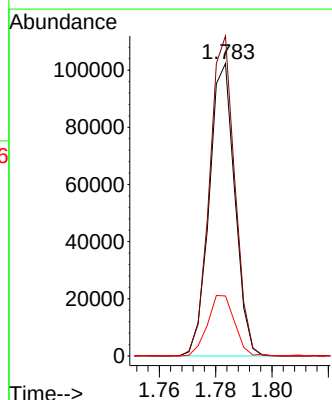
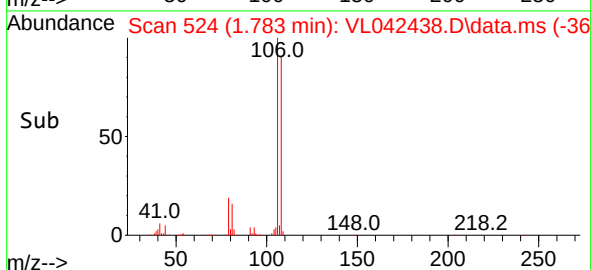
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

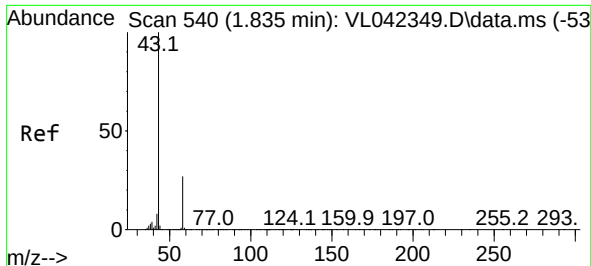


#14
Bromoethene
Concen: 10.674 ppbv
RT: 1.783 min Scan# 524
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08



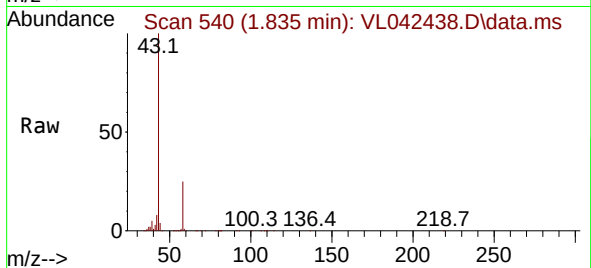
Tgt Ion:108 Resp: 64544
Ion Ratio Lower Upper
108 100
106 108.0 85.9 128.9
79 22.1 13.9 20.9#





#15
Acetone
Concen: 9.910 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

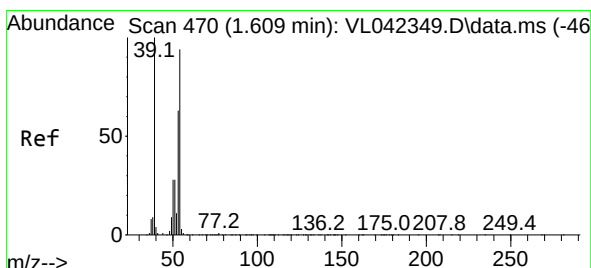
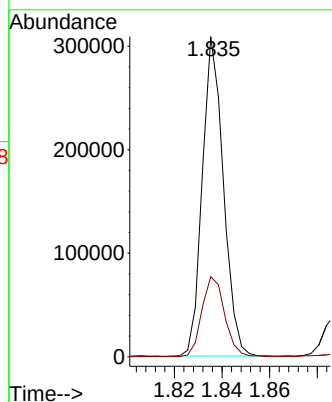
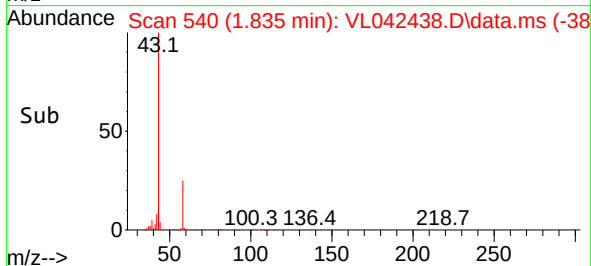
Instrument : MSVOA_L
ClientSampleId : VL0429ABS01



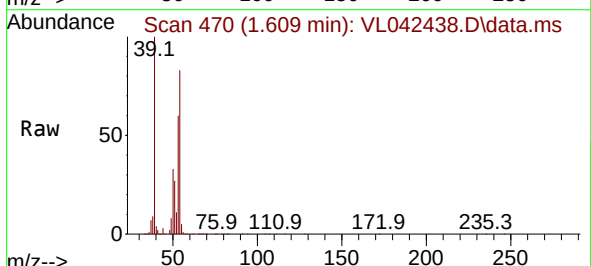
Tgt Ion: 43 Resp: 189432
Ion Ratio Lower Upper
43 100
58 27.1 22.4 33.6

Manual Integrations
APPROVED

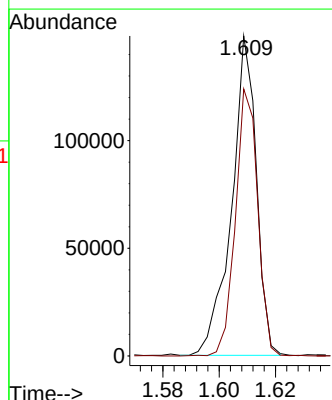
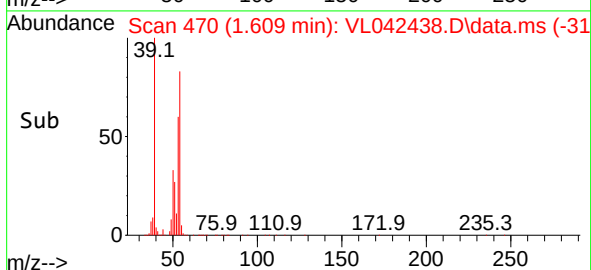
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

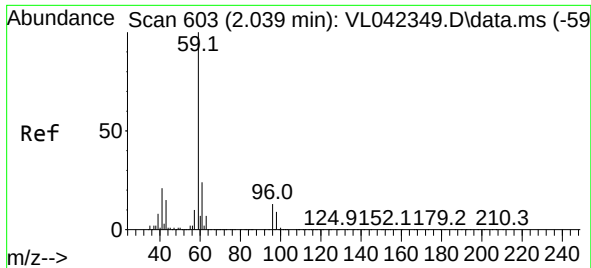


#16
1,3-Butadiene
Concen: 9.895 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08



Tgt Ion: 39 Resp: 90473
Ion Ratio Lower Upper
39 100
54 75.1 64.9 97.3





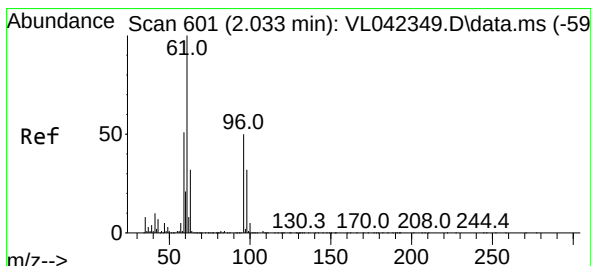
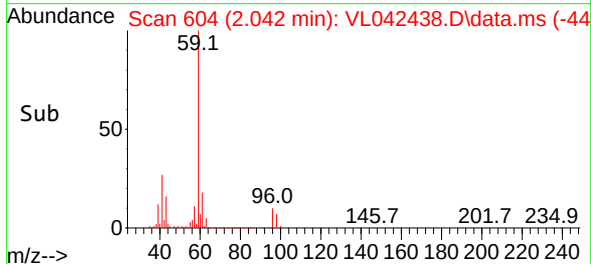
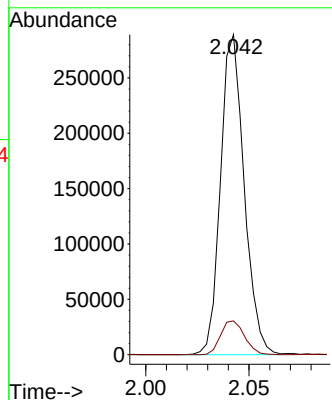
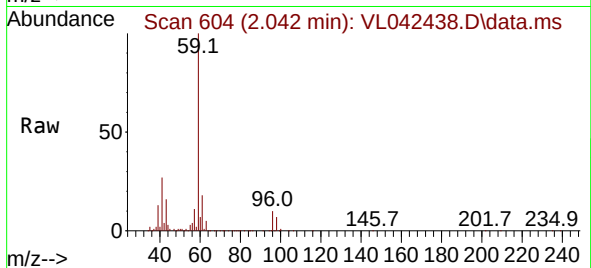
#17
tert-Butyl alcohol
Concen: 9.718 ppbv
RT: 2.042 min Scan# 604
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VL0429ABS01

Tgt Ion: 59 Resp: 23021
Ion Ratio Lower Upper
59 100
57 10.7 8.7 13.1

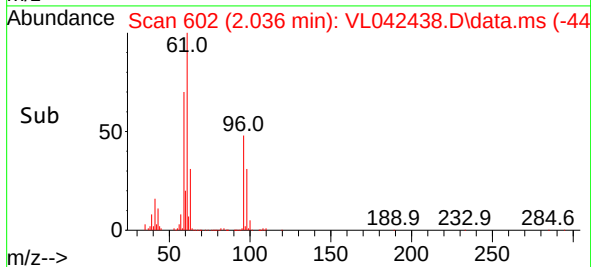
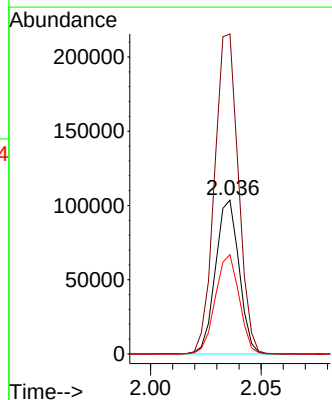
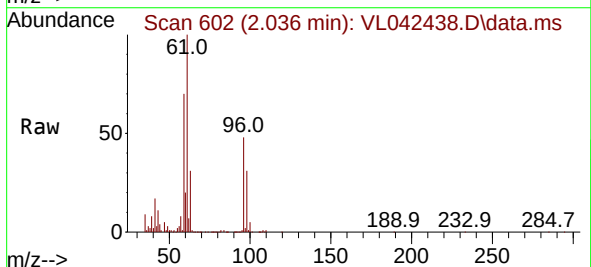
Manual Integrations
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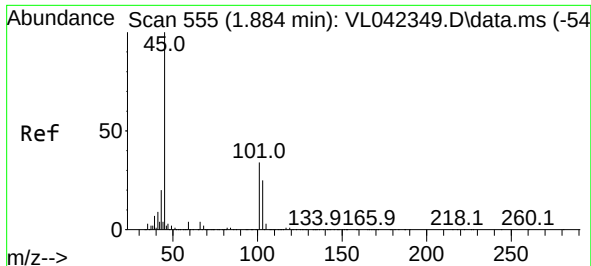
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025



#18
1,1-Dichloroethene
Concen: 10.241 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

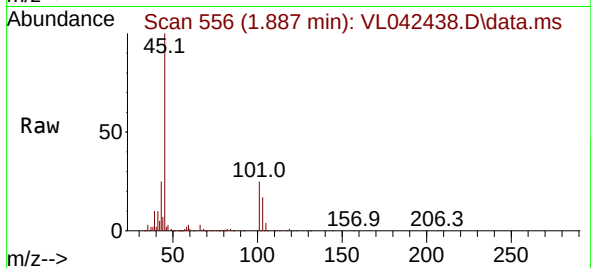
Tgt Ion: 96 Resp: 76749
Ion Ratio Lower Upper
96 100
61 208.1 160.2 240.2
98 64.5 51.0 76.4





#19
Isopropyl Alcohol
Concen: 9.765 ppbv
RT: 1.887 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

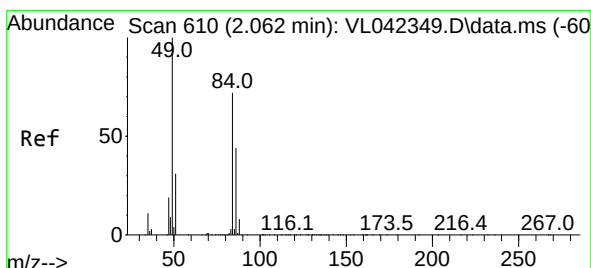
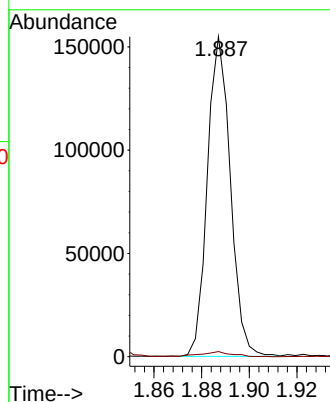
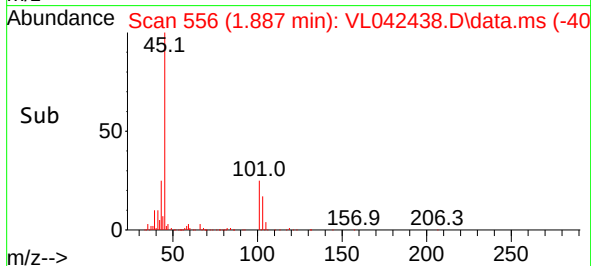
Instrument :
MSVOA_L
ClientSampleId :
VL0429ABS01



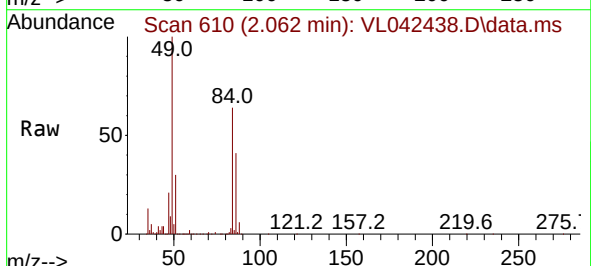
Tgt Ion: 45 Resp: 103692
Ion Ratio Lower Upper
45 100
58 2.2 34.5 51.7

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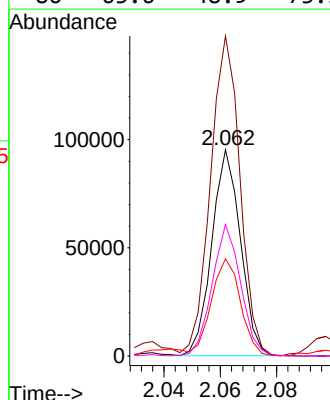
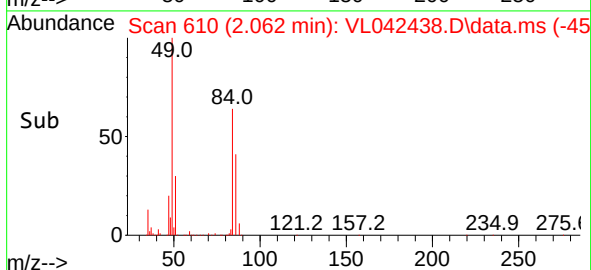
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

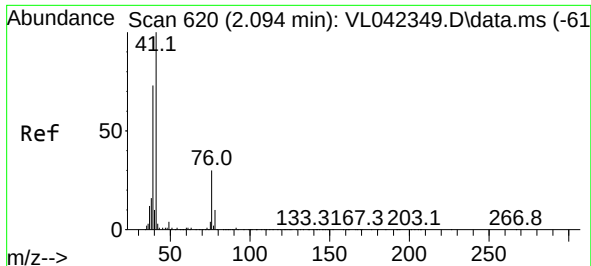


#20
Methylene Chloride
Concen: 8.989 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08



Tgt Ion: 84 Resp: 67298
Ion Ratio Lower Upper
84 100
49 155.2 111.6 167.4
51 47.0 35.1 52.7
86 63.6 48.9 73.3





#21
 Allyl Chloride
 Concen: 9.851 ppbv
 RT: 2.097 min Scan# 61
 Delta R.T. 0.003 min
 Lab File: VL042438.D
 Acq: 29 Apr 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

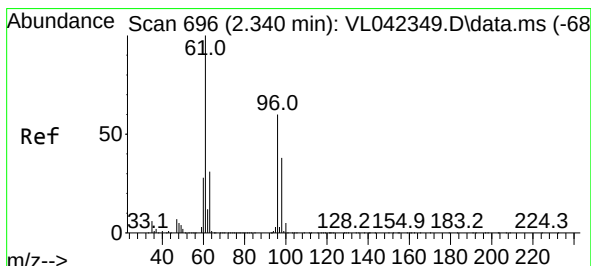
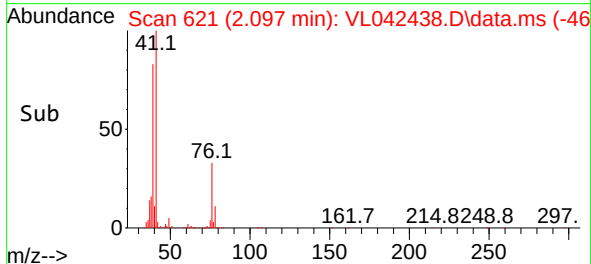
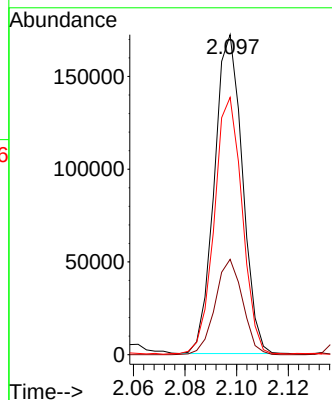
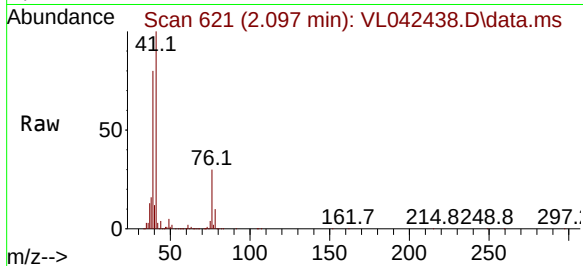
VL0429ABS01

Tgt Ion: 41 Resp: 130014
 Ion Ratio Lower Upper
 41 100
 76 29.2 24.8 37.2
 39 80.1 60.6 90.8

Manual Integrations

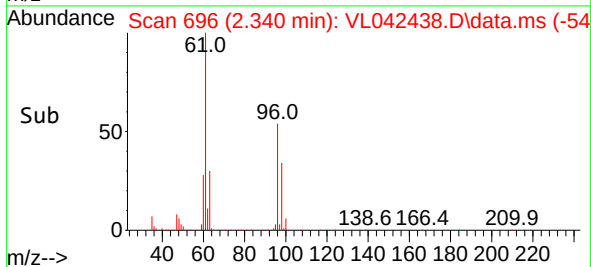
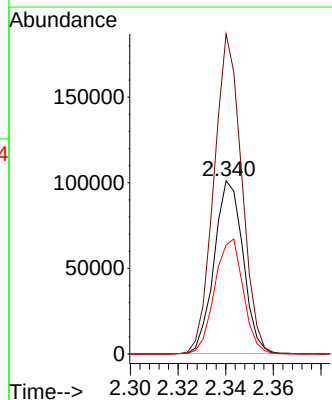
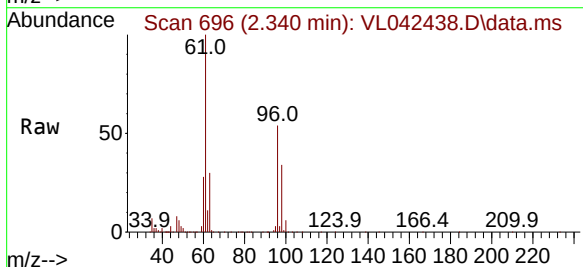
APPROVED

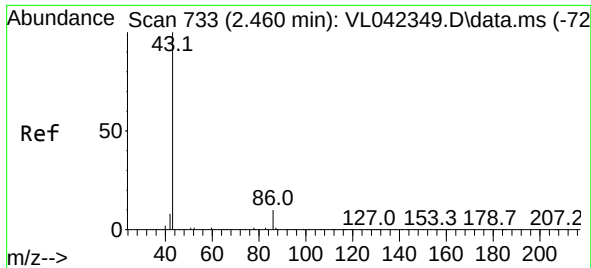
Reviewed By :Semsettin Yesilyurt 04/30/2025
 Supervised By :Mahesh Dadoda 04/30/2025



#22
 trans-1,2-Dichloroethene
 Concen: 9.938 ppbv
 RT: 2.340 min Scan# 696
 Delta R.T. -0.000 min
 Lab File: VL042438.D
 Acq: 29 Apr 2025 10:08

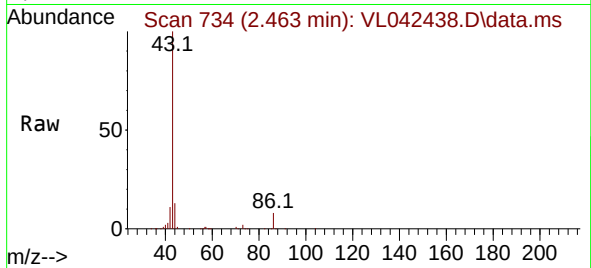
Tgt Ion: 96 Resp: 84797
 Ion Ratio Lower Upper
 96 100
 61 185.1 133.7 200.5
 98 63.1 50.3 75.5





#23
 Vinyl Acetate
 Concen: 7.888 ppbv
 RT: 2.463 min Scan# 717
 Delta R.T. 0.003 min
 Lab File: VL042438.D
 Acq: 29 Apr 2025 10:08

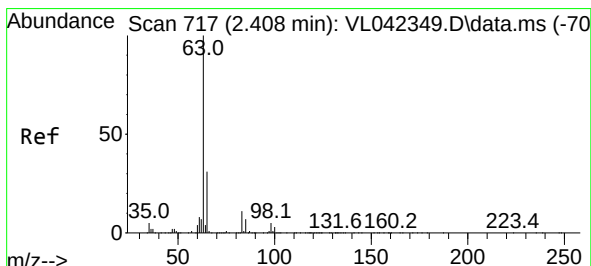
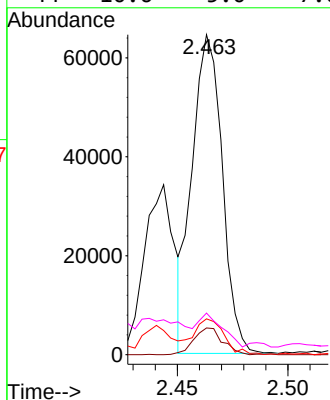
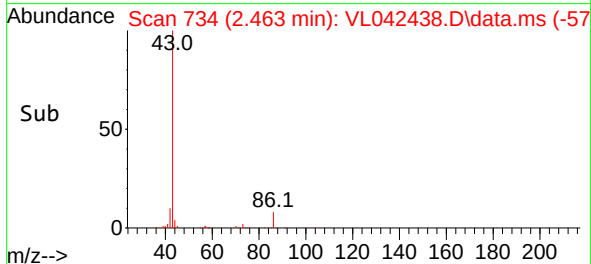
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0429ABS01



Tgt Ion: 43 Resp: 61030
 Ion Ratio Lower Upper
 43 100
 86 8.4 6.5 9.7
 42 11.0 7.8 11.8
 44 10.6 5.0 7.6#

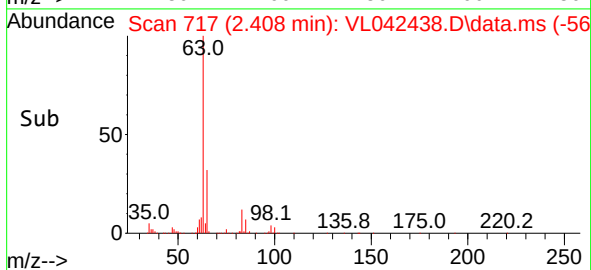
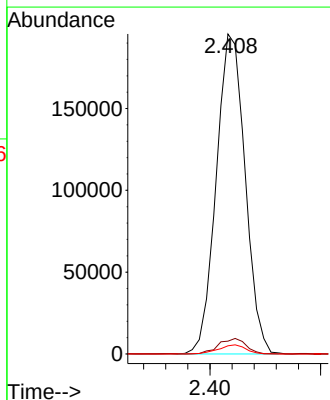
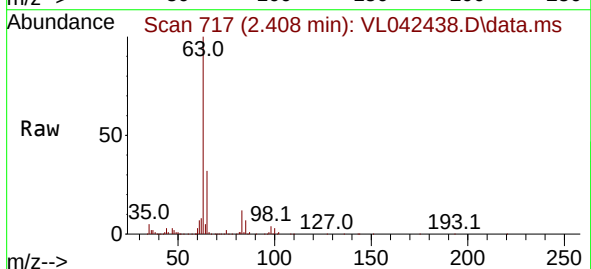
Manual Integrations
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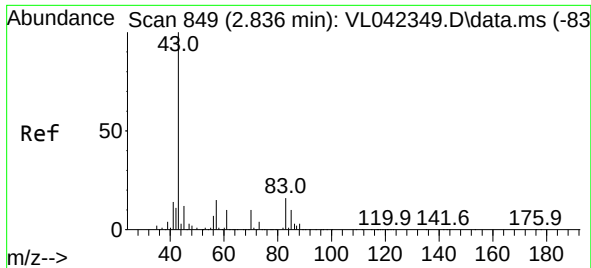
Reviewed By :Semsettin Yesilyurt 04/30/2025
 Supervised By :Mahesh Dadoda 04/30/2025



#24
 1,1-Dichloroethane
 Concen: 10.934 ppbv
 RT: 2.408 min Scan# 717
 Delta R.T. -0.000 min
 Lab File: VL042438.D
 Acq: 29 Apr 2025 10:08

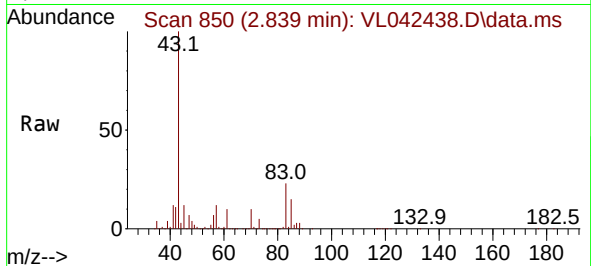
Tgt Ion: 63 Resp: 177233
 Ion Ratio Lower Upper
 63 100
 98 4.0 2.3 6.8
 100 2.6 1.6 4.8





#25
Ethyl Acetate
Concen: 8.836 ppbv
RT: 2.839 min Scan# 849
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

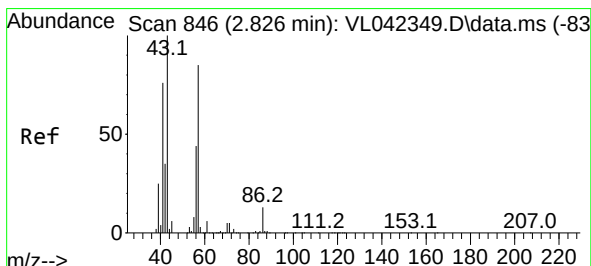
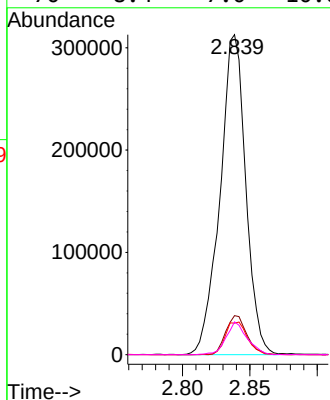
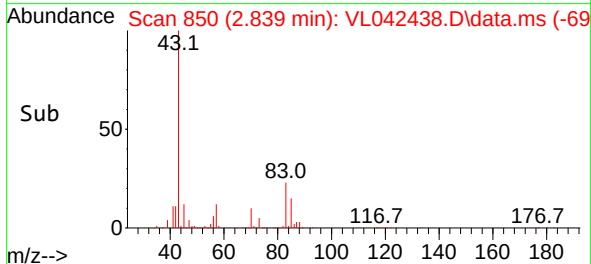
Instrument :
MSVOA_L
ClientSampleId :
VL0429ABS01



Tgt Ion: 43 Resp: 41646
Ion Ratio Lower Upper
43 100
45 10.0 8.3 12.5
61 8.8 7.3 10.9
70 8.4 7.0 10.6

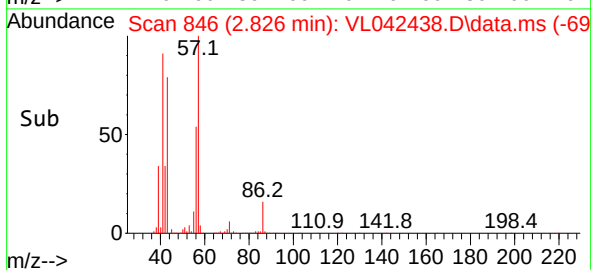
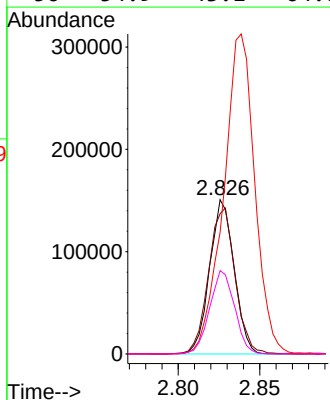
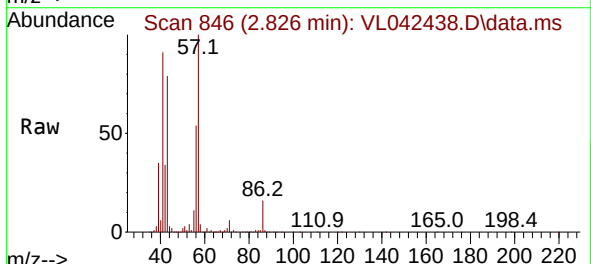
Manual Integrations
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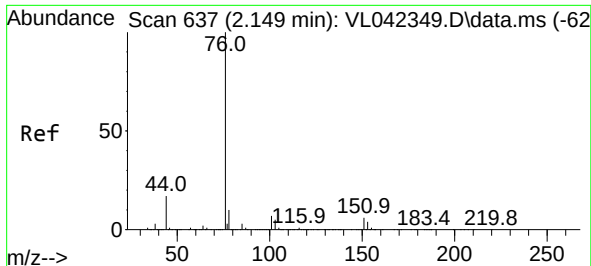
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025



#26
Hexane
Concen: 8.260 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

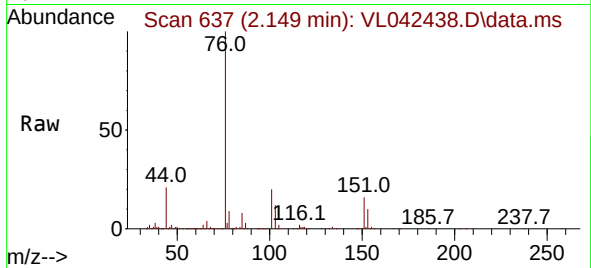
Tgt Ion: 57 Resp: 157544
Ion Ratio Lower Upper
57 100
41 103.2 77.9 116.9
43 265.6 208.4 312.6
56 54.9 43.1 64.7





#27
Carbon Disulfide
Concen: 10.372 ppbv
RT: 2.149 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

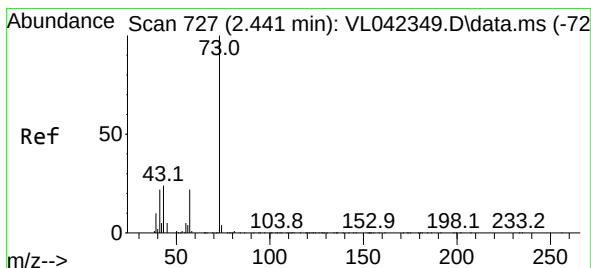
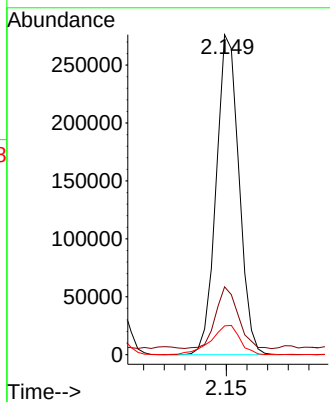
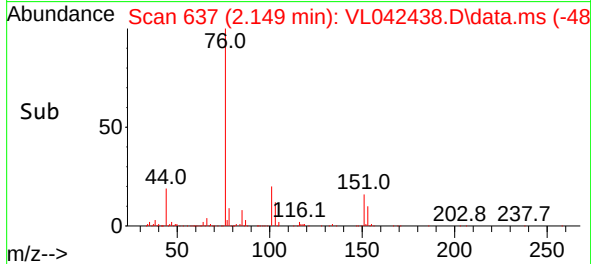
Instrument :
MSVOA_L
ClientSampleId :
VL0429ABS01



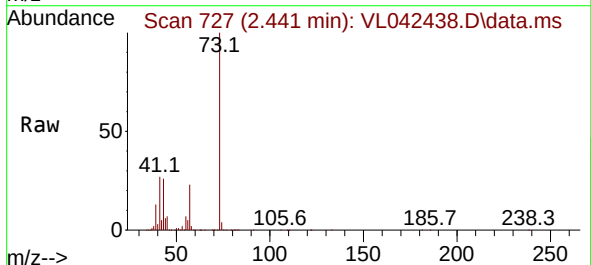
Tgt Ion: 76 Resp: 211824
Ion Ratio Lower Upper
76 100
44 19.8 15.5 23.3
78 11.7 9.3 13.9

Manual Integrations
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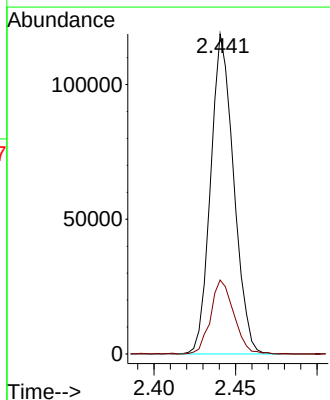
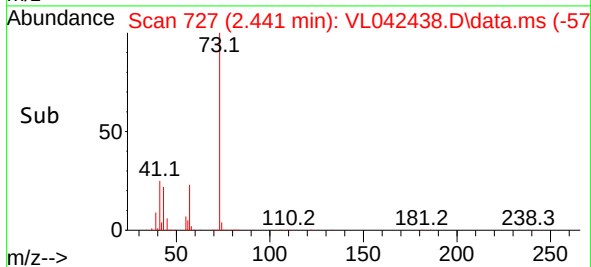
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

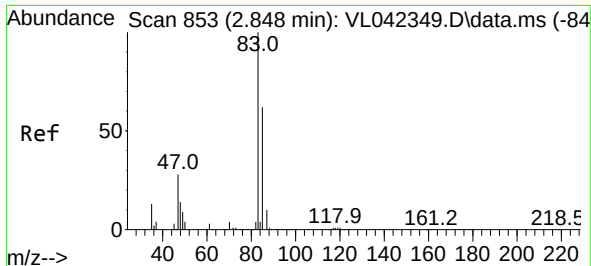


#28
Methyl tert-Butyl Ether
Concen: 9.344 ppbv
RT: 2.441 min Scan# 727
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08



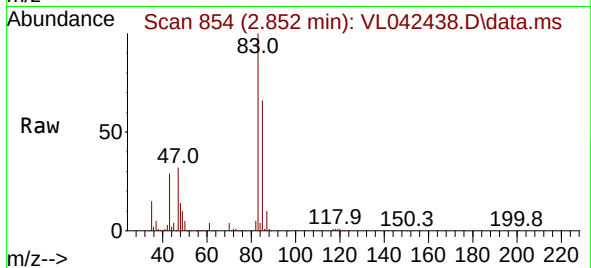
Tgt Ion: 73 Resp: 116769
Ion Ratio Lower Upper
73 100
57 23.4 21.3 31.9





#29
Chloroform
Concen: 10.623 ppbv
RT: 2.852 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

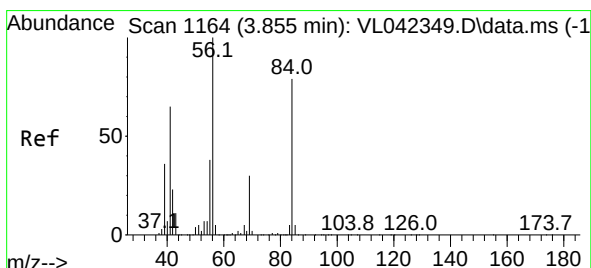
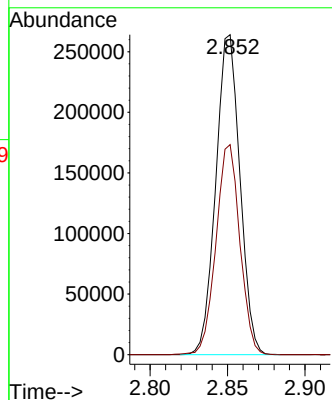
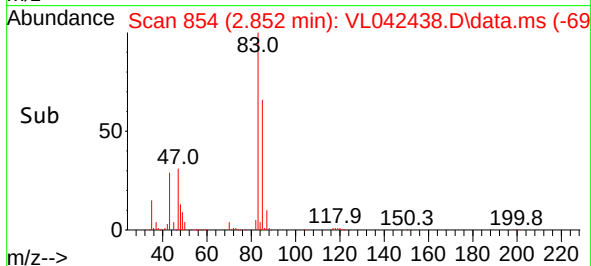
Instrument :
MSVOA_L
ClientSampleId :
VL0429ABS01



Tgt Ion: 83 Resp: 28639
Ion Ratio Lower Upper
83 100
85 65.6 50.0 75.0

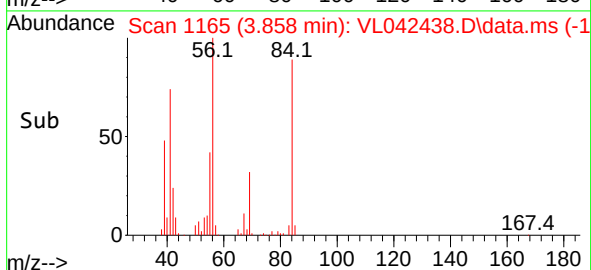
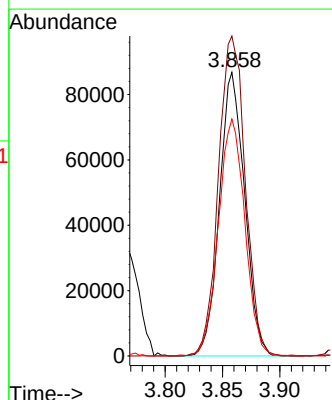
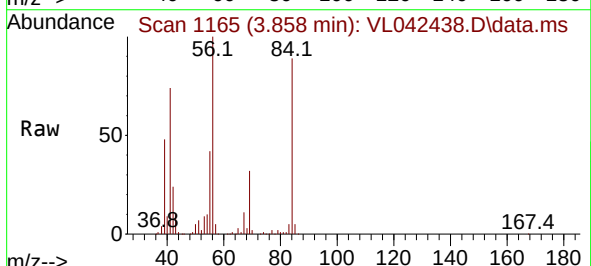
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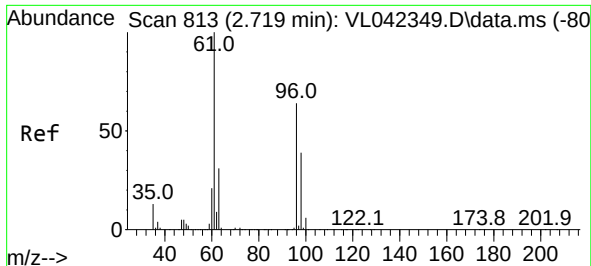
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025



#30
Cyclohexane
Concen: 8.601 ppbv
RT: 3.858 min Scan# 1165
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

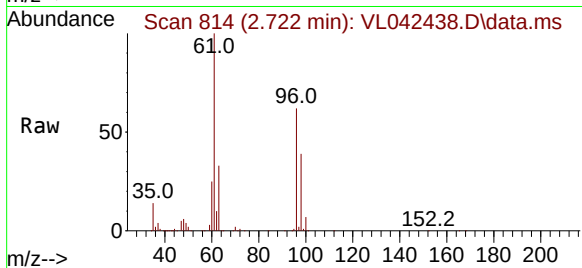
Tgt Ion: 84 Resp: 132615
Ion Ratio Lower Upper
84 100
56 119.9 101.0 151.4
41 88.0 67.4 101.0





#31
 cis-1,2-Dichloroethene
 Concen: 9.613 ppbv
 RT: 2.722 min Scan# 813
 Delta R.T. 0.003 min
 Lab File: VL042438.D
 Acq: 29 Apr 2025 10:08

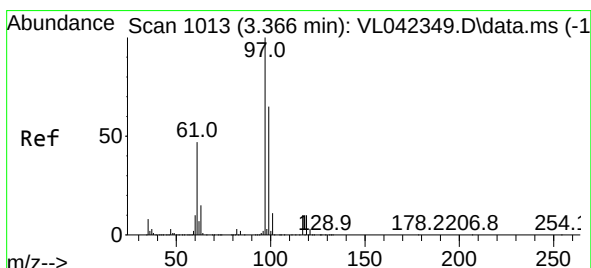
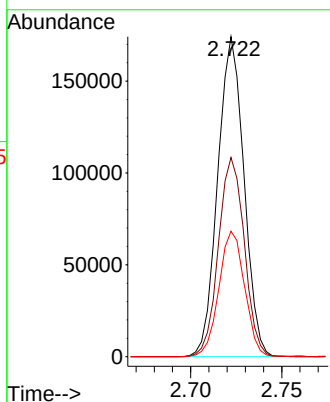
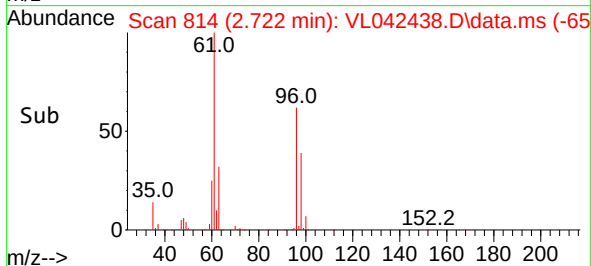
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0429ABS01



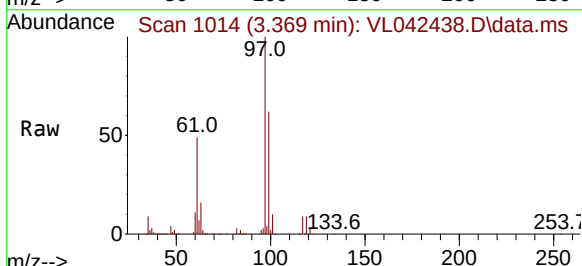
Tgt Ion: 61 Resp: 174328
 Ion Ratio Lower Upper
 61 100
 96 62.3 50.8 76.2
 98 39.2 30.9 46.3

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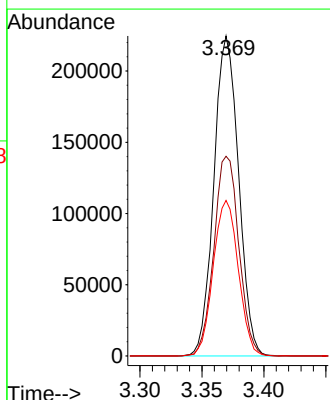
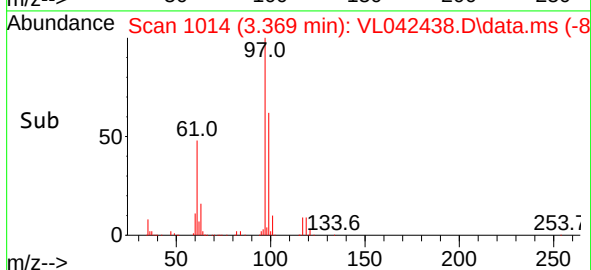
Reviewed By :Semsettin Yesilyurt 04/30/2025
 Supervised By :Mahesh Dadoda 04/30/2025

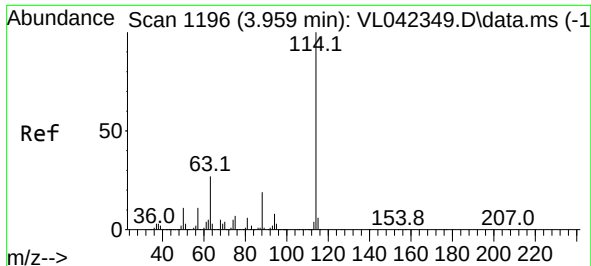


#32
 1,1,1-Trichloroethane
 Concen: 10.294 ppbv
 RT: 3.369 min Scan# 1014
 Delta R.T. 0.003 min
 Lab File: VL042438.D
 Acq: 29 Apr 2025 10:08



Tgt Ion: 97 Resp: 312429
 Ion Ratio Lower Upper
 97 100
 99 63.2 51.0 76.4
 61 49.4 38.8 58.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.962 min Scan# 1196

Delta R.T. 0.003 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

VL0429ABS01

Tgt Ion:114 Resp: 317590

Ion Ratio Lower Upper

114 100

63 28.7 21.8 32.6

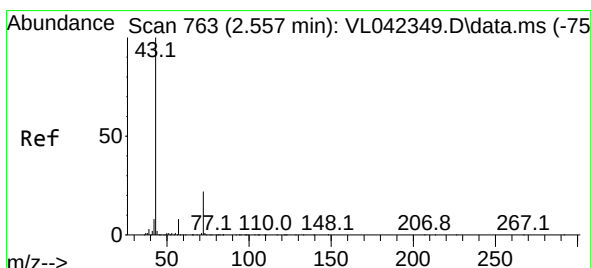
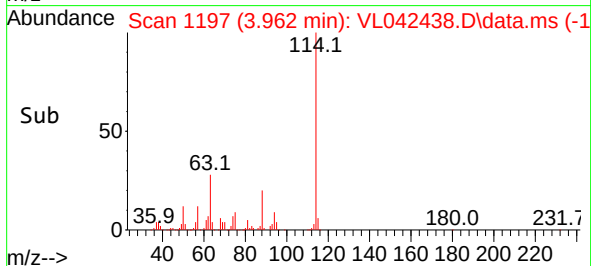
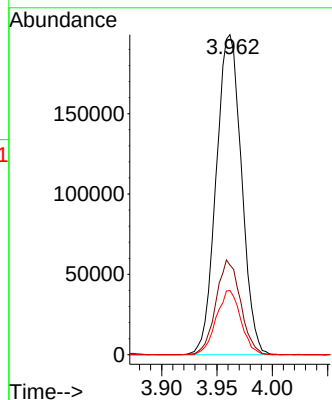
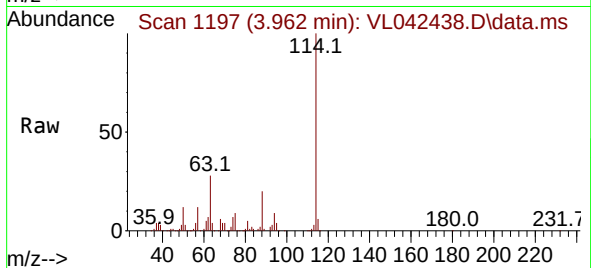
88 19.4 15.5 23.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/30/2025

Supervised By :Mahesh Dadoda 04/30/2025



#34

2-Butanone

Concen: 9.278 ppbv

RT: 2.560 min Scan# 764

Delta R.T. 0.003 min

Lab File: VL042438.D

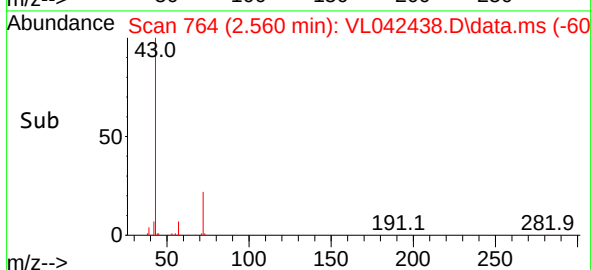
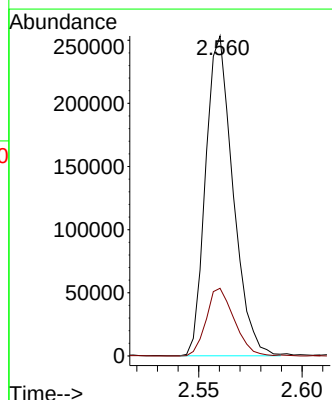
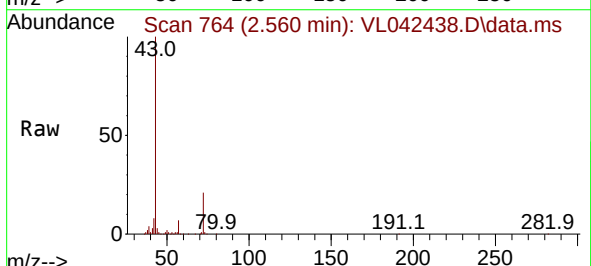
Acq: 29 Apr 2025 10:08

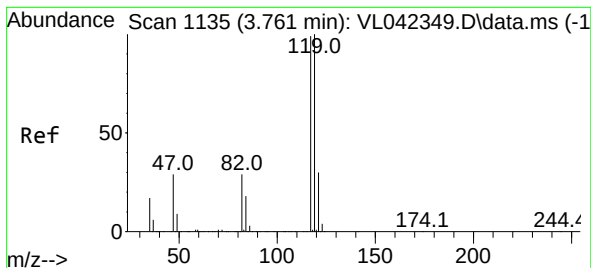
Tgt Ion: 43 Resp: 233037

Ion Ratio Lower Upper

43 100

72 21.7 18.2 27.2





#35

Carbon Tetrachloride

Concen: 11.036 ppbv

RT: 3.764 min Scan# 1135

Delta R.T. 0.003 min

Lab File: VL042438.D

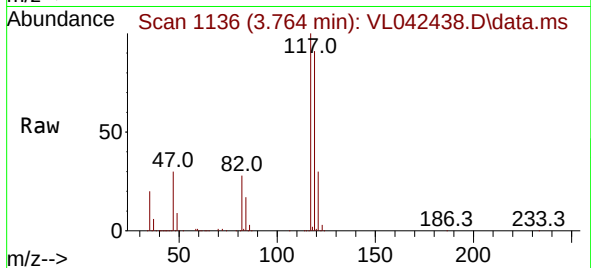
Acq: 29 Apr 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

VL0429ABS01



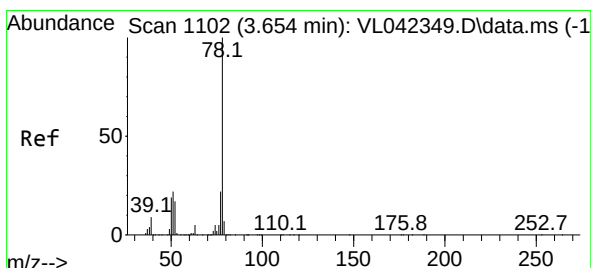
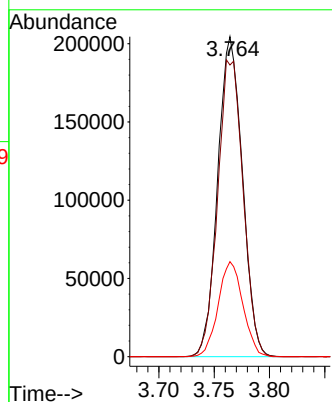
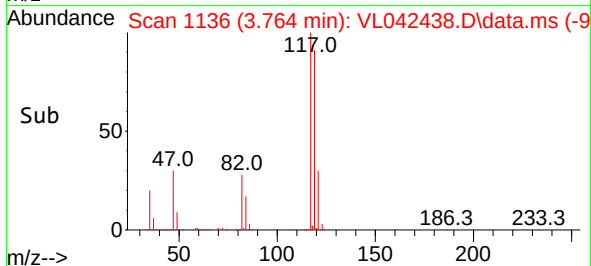
Tgt Ion: 117 Resp: 31720

Ion	Ratio	Lower	Upper
117	100		
119	91.1	80.5	120.7
121	29.7	24.2	36.2

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#36

Benzene

Concen: 9.264 ppbv

RT: 3.658 min Scan# 1103

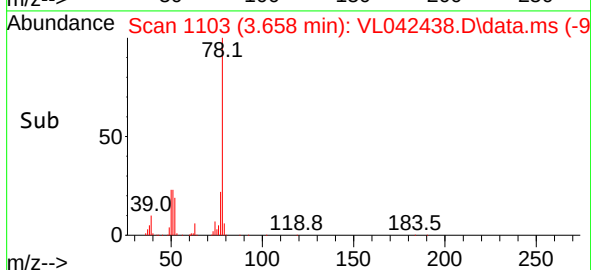
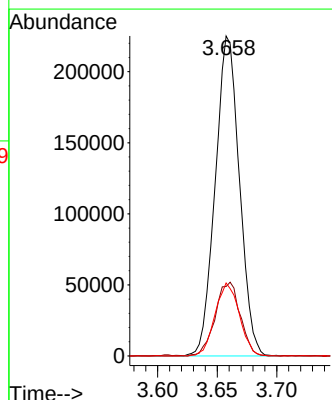
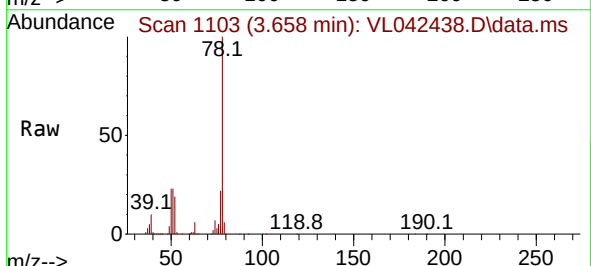
Delta R.T. 0.003 min

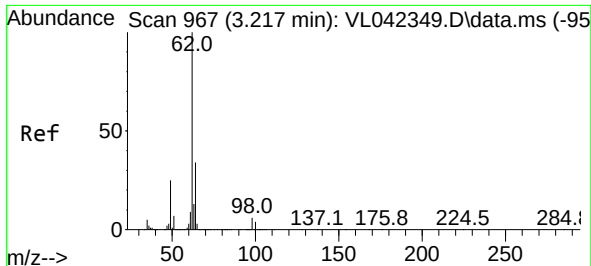
Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

Tgt Ion: 78 Resp: 317350

Ion	Ratio	Lower	Upper
78	100		
77	21.7	17.4	26.0
50	22.8	15.5	23.3





#37

1,2-Dichloroethane

Concen: 12.035 ppbv

RT: 3.221 min Scan# 967

Delta R.T. 0.003 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

VL0429ABS01

Tgt Ion: 62 Resp: 247440

Ion Ratio Lower Upper

62 100

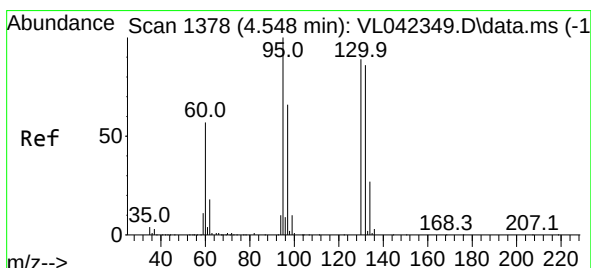
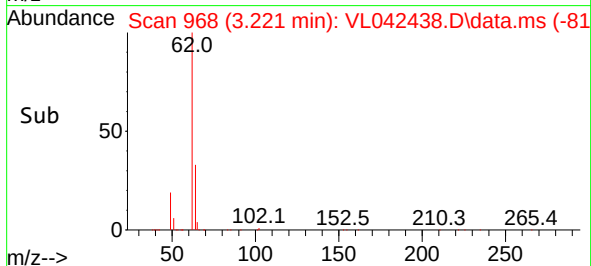
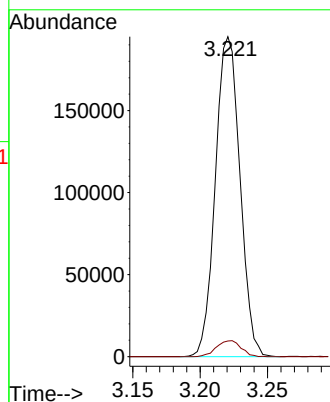
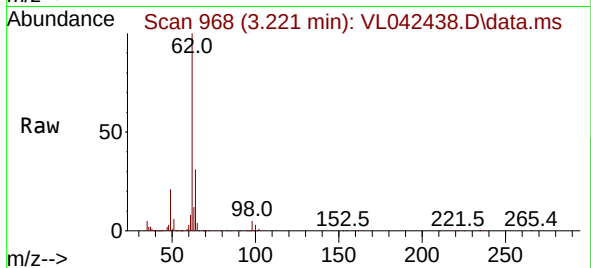
98 5.0 5.1 7.7

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/30/2025

Supervised By :Mahesh Dadoda 04/30/2025



#38

Trichloroethene

Concen: 8.523 ppbv

RT: 4.551 min Scan# 1379

Delta R.T. 0.003 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

Tgt Ion:130 Resp: 127601

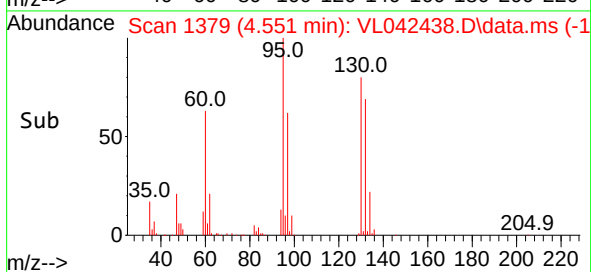
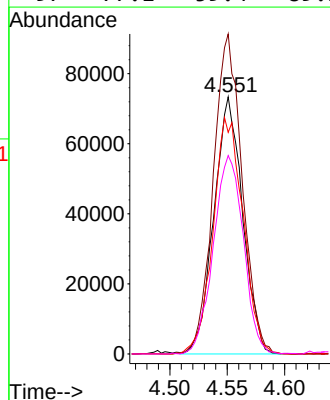
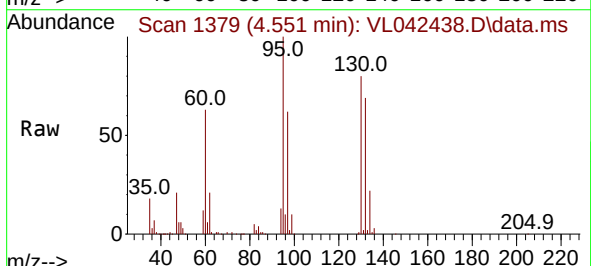
Ion Ratio Lower Upper

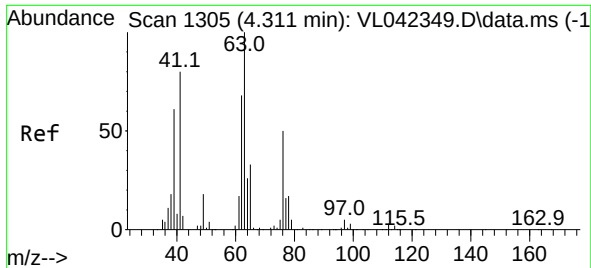
130 100

95 124.2 89.8 134.6

132 86.0 77.7 116.5

97 77.1 59.4 89.2





#39

1,2-Dichloropropane

Concen: 9.044 ppbv

RT: 4.318 min Scan# 115449

Delta R.T. 0.006 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

VL0429ABS01

Tgt Ion: 63 Resp: 115449

Ion Ratio Lower Upper

63 100

41 92.4 64.2 96.2

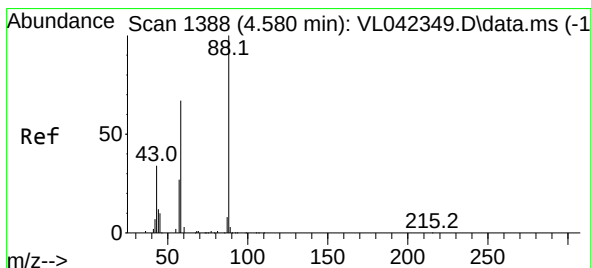
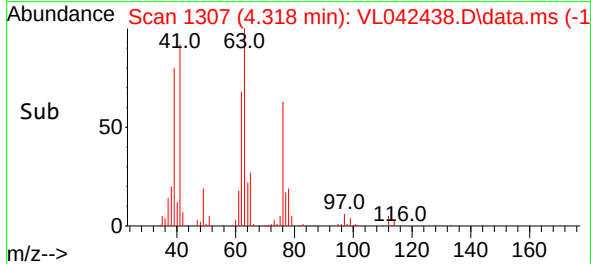
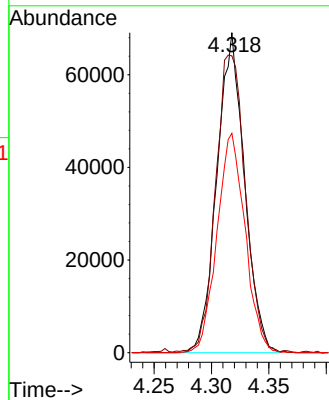
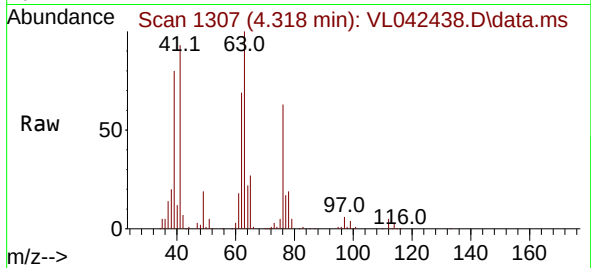
62 68.4 54.3 81.5

Manual Integrations

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Supervised By :Mahesh Dadoda 04/30/2025



#40

1,4-Dioxane

Concen: 7.529 ppbv

RT: 4.586 min Scan# 1390

Delta R.T. 0.006 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

Tgt Ion: 88 Resp: 52820

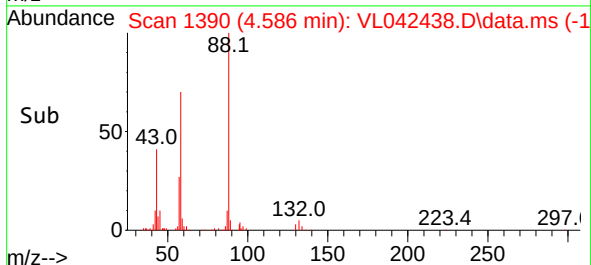
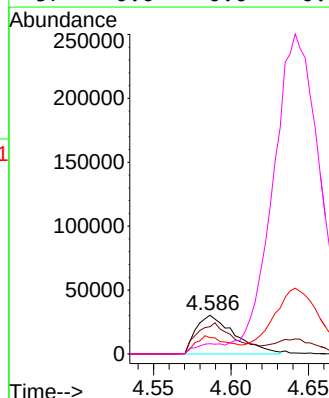
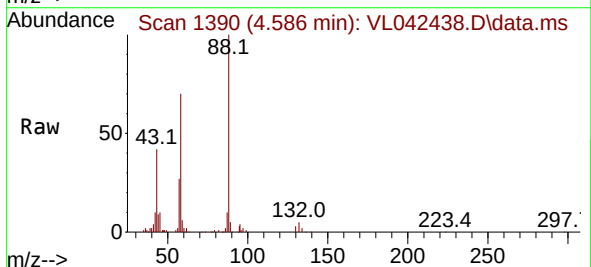
Ion Ratio Lower Upper

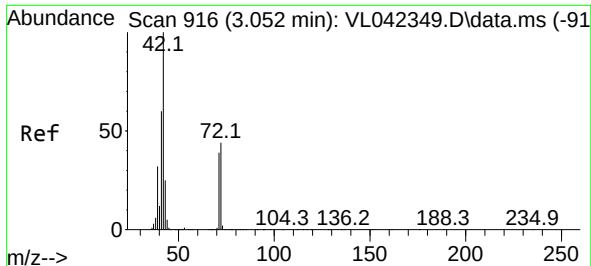
88 100

58 78.5 61.4 92.0

43 41.9 23.2 34.8#

57 0.0 0.0 0.0





#41

Tetrahydrofuran

Concen: 8.471 ppbv

RT: 3.055 min Scan# 916

Delta R.T. 0.003 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

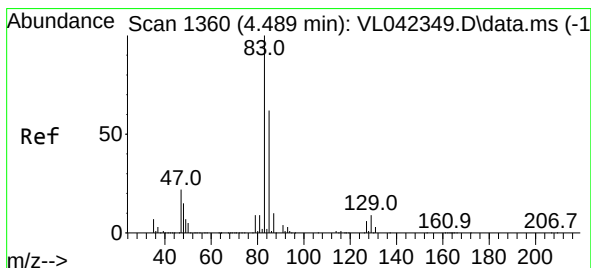
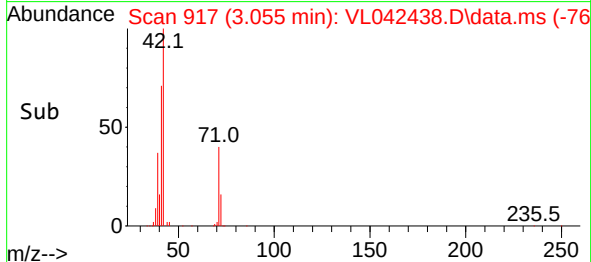
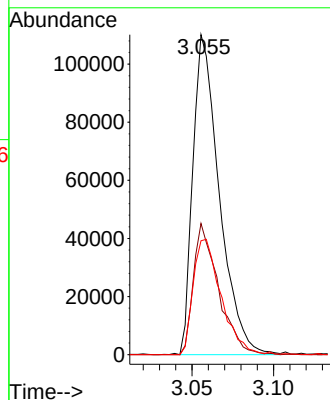
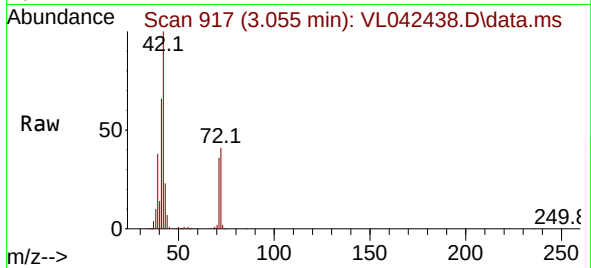
VL0429ABS01

Tgt Ion:	42	Resp:	124059
Ion Ratio	Lower	Upper	
42	100		
72	38.9	32.3	48.5
71	38.4	31.4	47.2

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Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025



#42

Bromodichloromethane

Concen: 11.088 ppbv

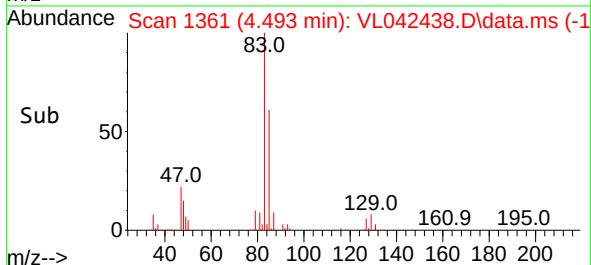
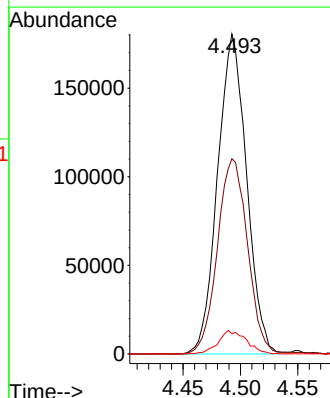
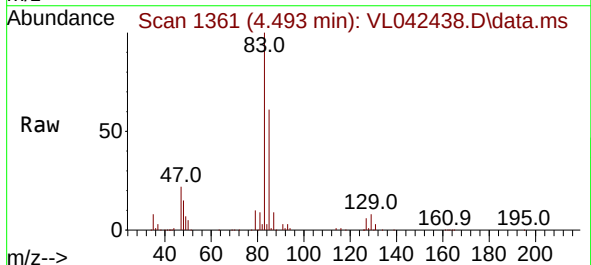
RT: 4.493 min Scan# 1361

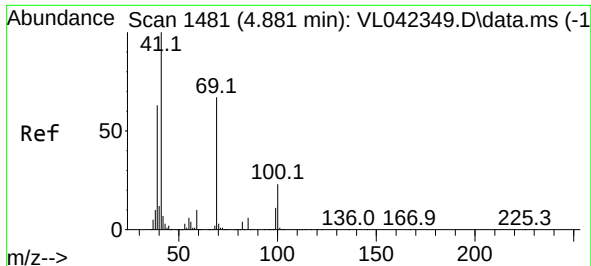
Delta R.T. 0.003 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

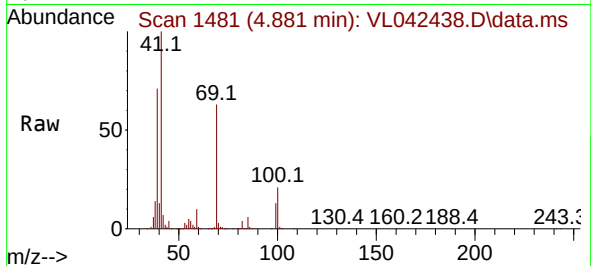
Tgt Ion:	83	Resp:	317253
Ion Ratio	Lower	Upper	
83	100		
85	61.0	49.7	74.5
127	6.4	5.1	7.7





#43
Methyl Methacrylate
Concen: 8.020 ppbv
RT: 4.881 min Scan# 1481
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

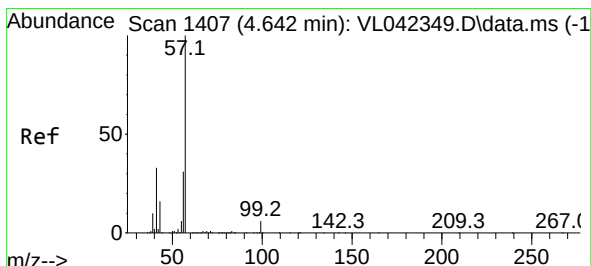
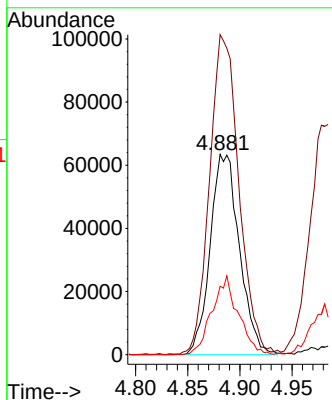
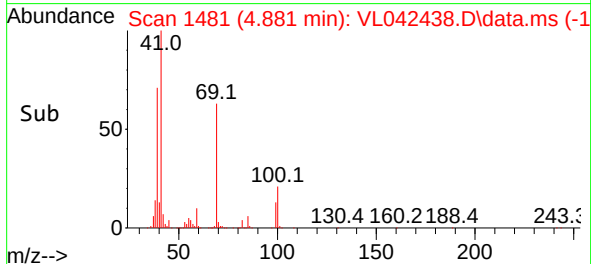
Instrument :
MSVOA_L
ClientSampleId :
VL0429ABS01



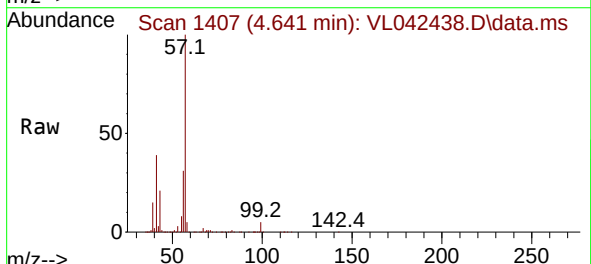
Tgt Ion: 69 Resp: 12381
Ion Ratio Lower Upper
69 100
41 0.0 118.6 177.8
100 35.4 28.2 42.2

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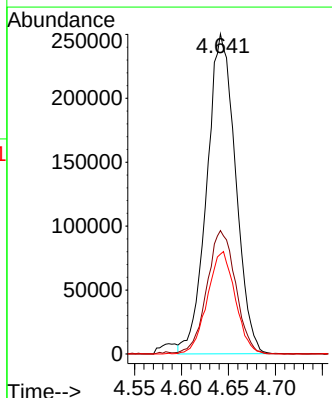
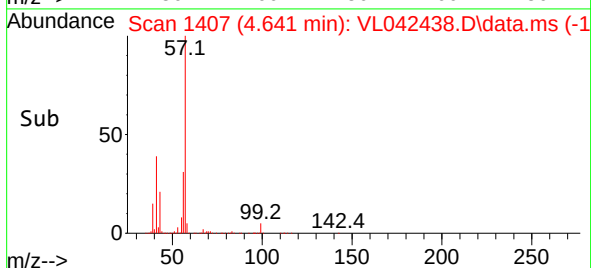
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

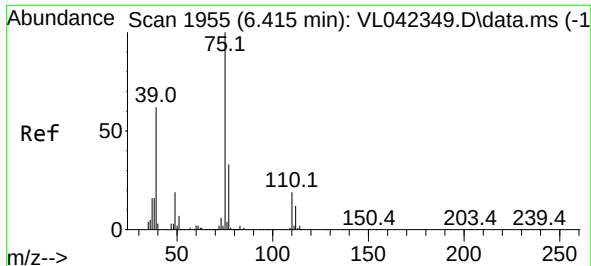


#44
2,2,4-Trimethylpentane
Concen: 8.983 ppbv
RT: 4.641 min Scan# 1407
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08



Tgt Ion: 57 Resp: 531439
Ion Ratio Lower Upper
57 100
41 39.1 27.2 40.8
56 31.1 25.7 38.5





#45

t-1,3-Dichloropropene

Concen: 8.940 ppbv

RT: 6.418 min Scan# 1955

Delta R.T. 0.003 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

VL0429ABS01

Tgt Ion: 75 Resp: 14098

Ion Ratio Lower Upper

75 100

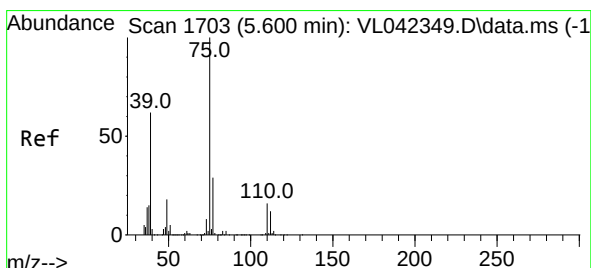
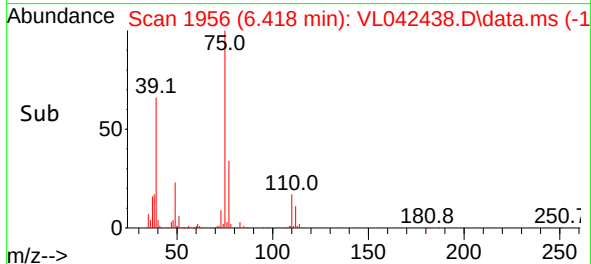
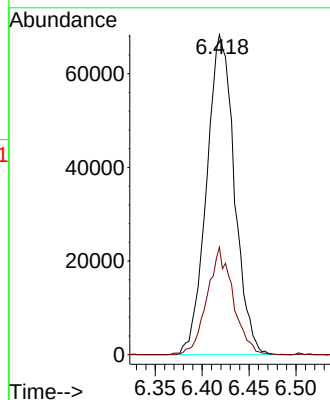
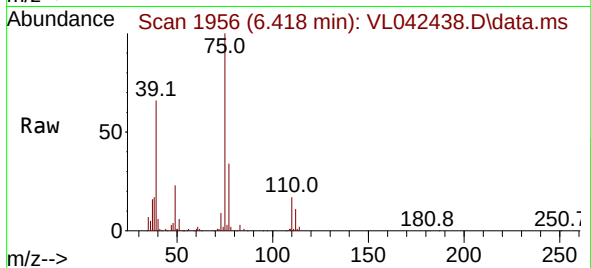
77 33.6 27.0 40.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/30/2025

Supervised By :Mahesh Dadoda 04/30/2025



#46

cis-1,3-Dichloropropene

Concen: 8.811 ppbv

RT: 5.606 min Scan# 1705

Delta R.T. 0.006 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

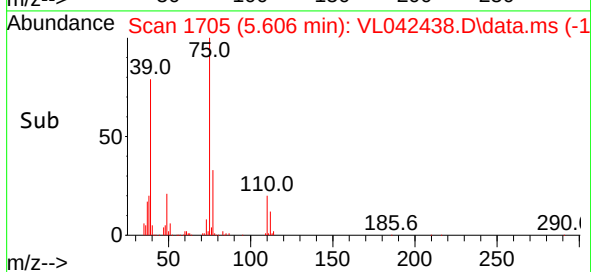
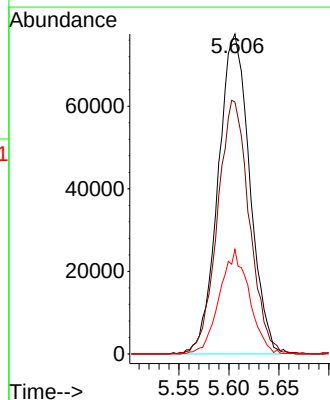
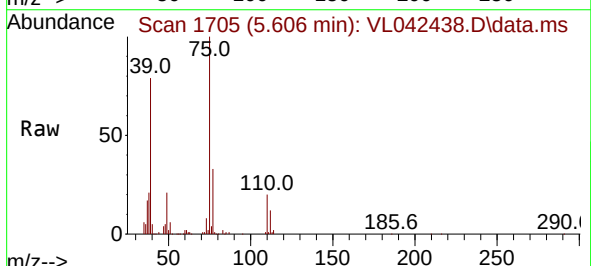
Tgt Ion: 75 Resp: 170063

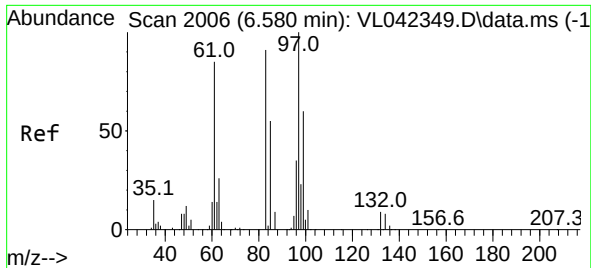
Ion Ratio Lower Upper

75 100

39 78.3 50.0 75.0#

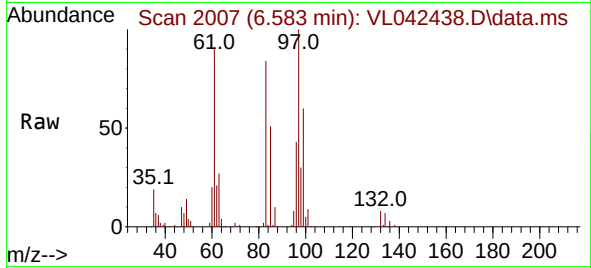
77 32.7 23.0 34.6





#47
1,1,2-Trichloroethane
Concen: 9.893 ppbv
RT: 6.583 min Scan# 2006
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

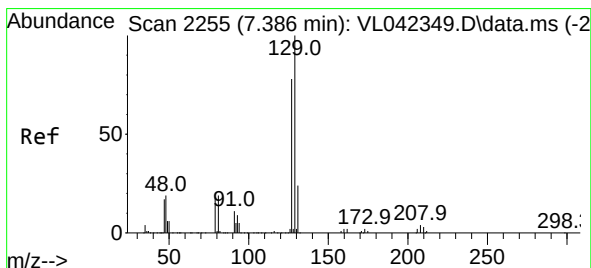
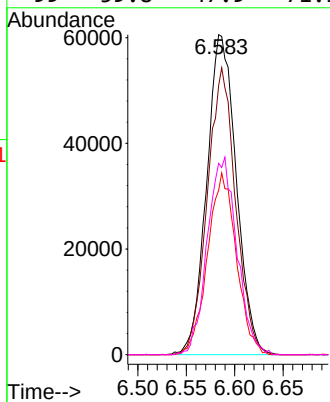
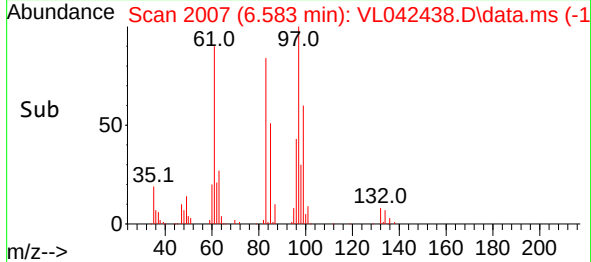
Instrument :
MSVOA_L
ClientSampleId :
VL0429ABS01



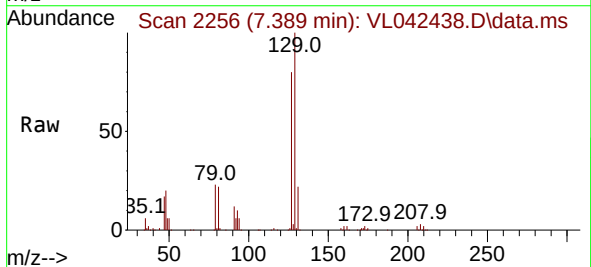
Tgt Ion: 97 Resp: 128662
Ion Ratio Lower Upper
97 100
83 84.0 72.8 109.2
85 51.4 44.2 66.4
99 59.8 47.9 71.9

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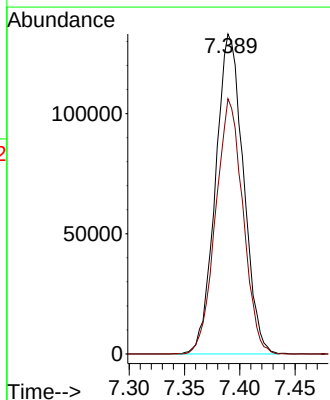
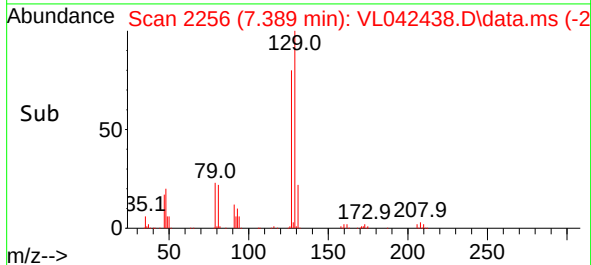
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

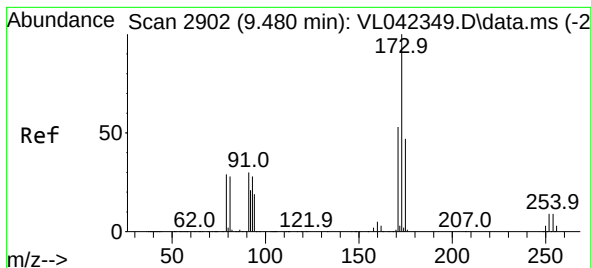


#48
Dibromochloromethane
Concen: 10.156 ppbv
RT: 7.389 min Scan# 2256
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08



Tgt Ion:129 Resp: 233350
Ion Ratio Lower Upper
129 100
127 78.1 39.1 117.3





#49

Bromoform

Concen: 9.431 ppbv

RT: 9.487 min Scan# 2904

Delta R.T. 0.006 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

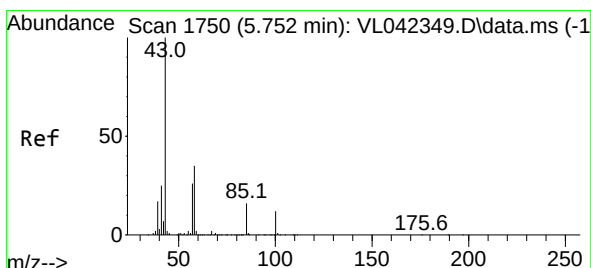
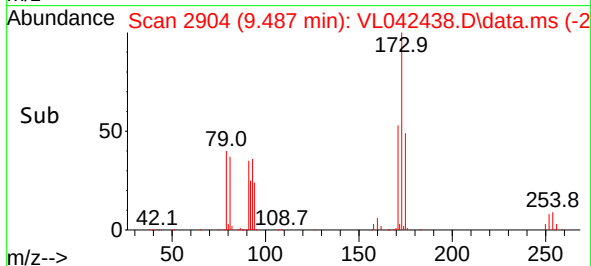
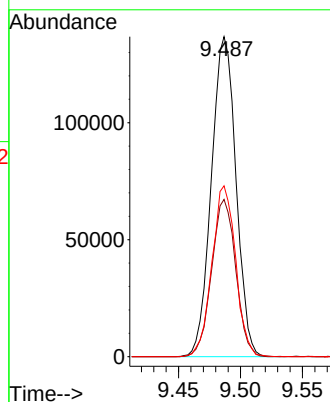
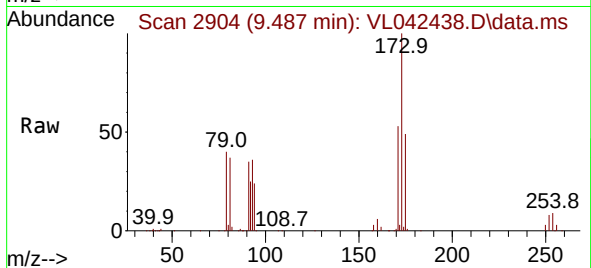
VL0429ABS01

Tgt Ion:173 Resp: 189484
 Ion Ratio Lower Upper
 173 100
 175 48.2 38.2 57.2
 171 51.4 40.9 61.3

Manual Integrations

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 Supervised By :Mahesh Dadoda 04/30/2025



#50

4-Methyl-2-Pentanone

Concen: 7.846 ppbv

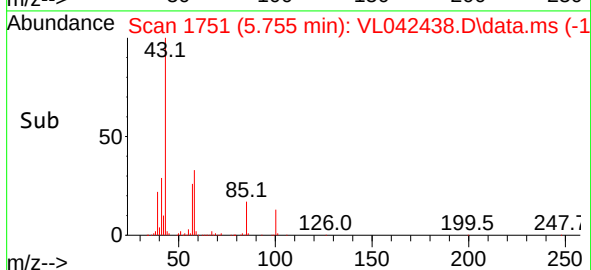
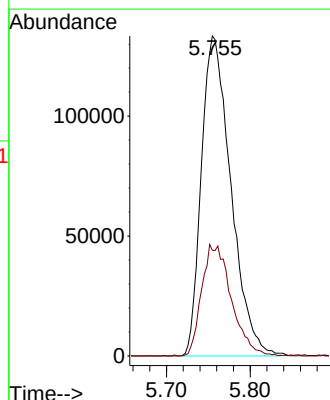
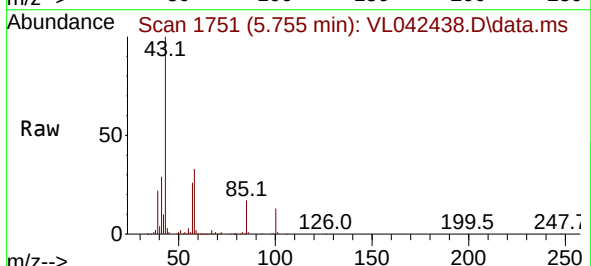
RT: 5.755 min Scan# 1751

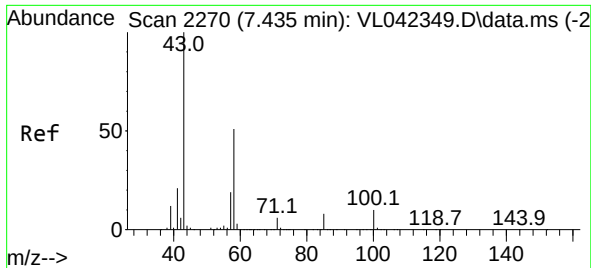
Delta R.T. 0.003 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

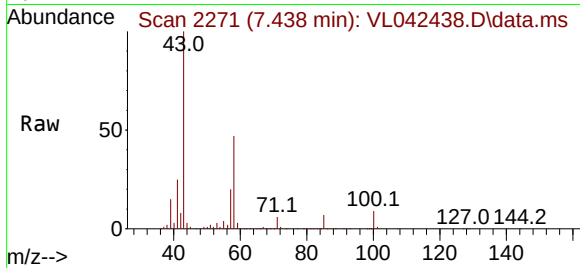
Tgt Ion: 43 Resp: 327508
 Ion Ratio Lower Upper
 43 100
 58 34.9 28.6 43.0





#51
2-Hexanone
Concen: 7.018 ppbv
RT: 7.438 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

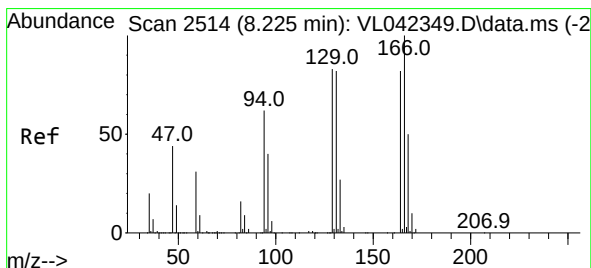
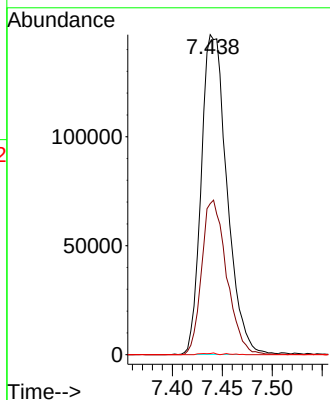
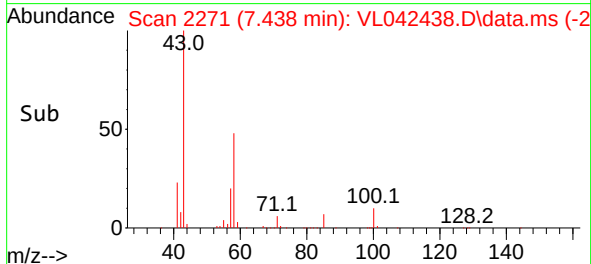
Instrument :
MSVOA_L
ClientSampleId :
VL0429ABS01



Tgt Ion: 43 Resp: 26269
Ion Ratio Lower Upper
43 100
58 47.0 40.2 60.4
98 0.4 0.1 0.1

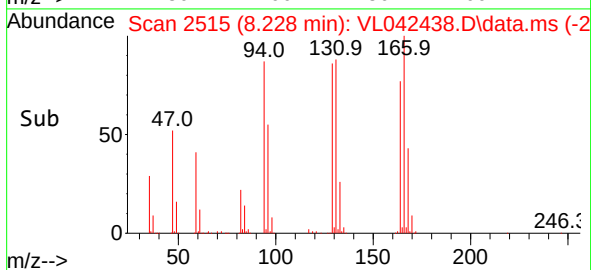
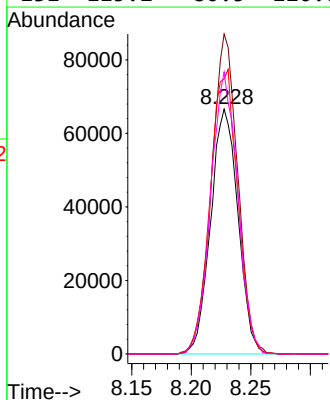
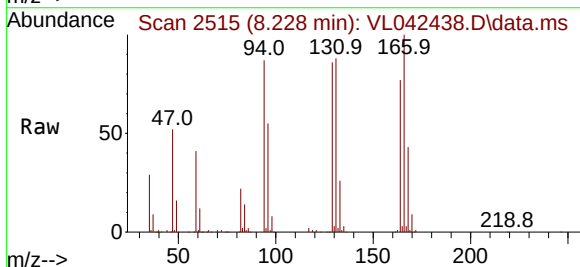
Manual Integrations
APPROVED

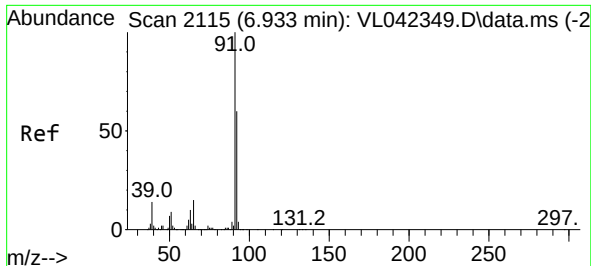
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025



#52
Tetrachloroethene
Concen: 8.008 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

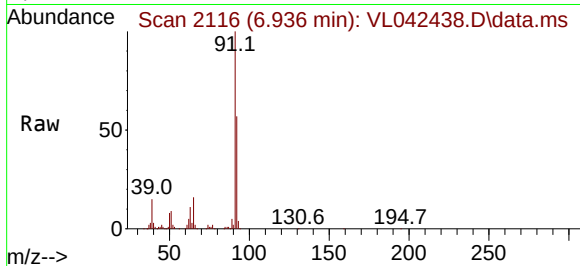
Tgt Ion:164 Resp: 106031
Ion Ratio Lower Upper
164 100
166 130.7 98.2 147.2
129 112.3 81.8 122.8
131 115.2 80.5 120.7





#53
Toluene
Concen: 8.848 ppbv
RT: 6.936 min Scan# 2115
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

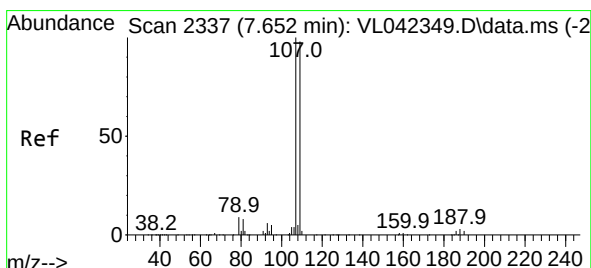
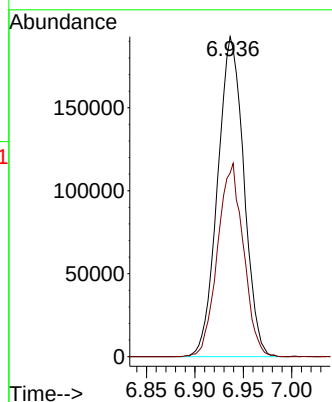
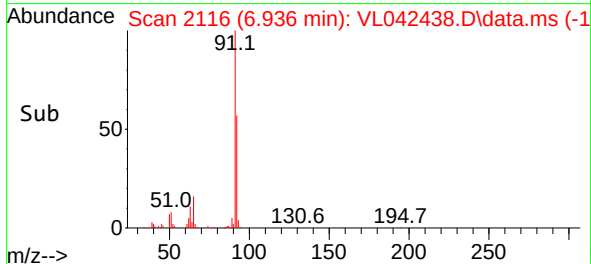
Instrument :
MSVOA_L
ClientSampleId :
VL0429ABS01



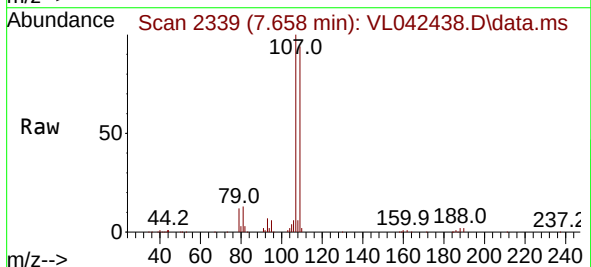
Tgt Ion: 91 Resp: 36370
Ion Ratio Lower Upper
91 100
92 59.6 48.2 72.4

Manual Integrations
APPROVED

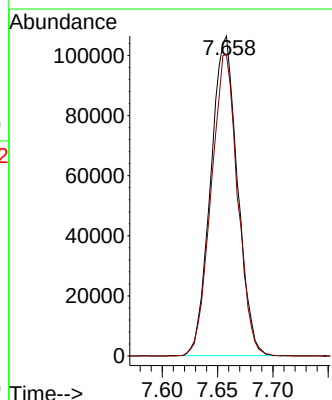
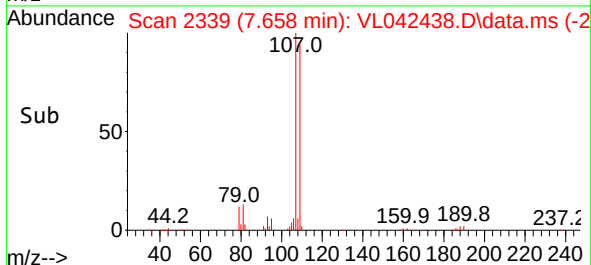
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

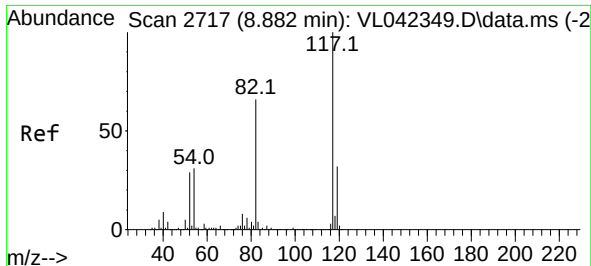


#54
1,2-Dibromoethane
Concen: 9.601 ppbv
RT: 7.658 min Scan# 2339
Delta R.T. 0.006 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08



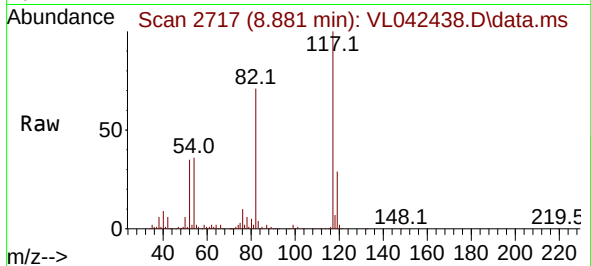
Tgt Ion:107 Resp: 178709
Ion Ratio Lower Upper
107 100
109 94.3 78.2 117.4





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.881 min Scan# 2717
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

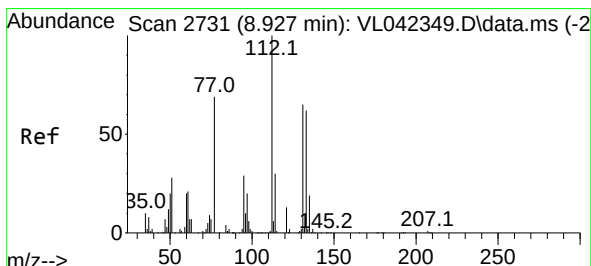
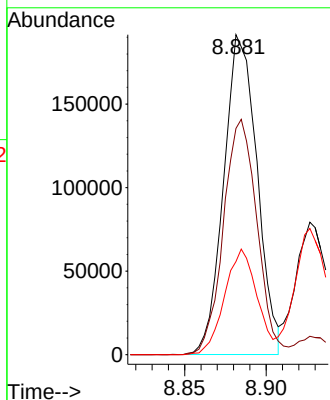
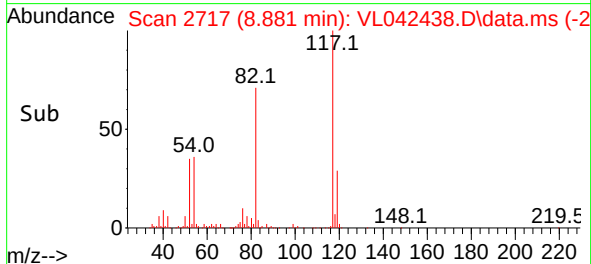
Instrument :
MSVOA_L
ClientSampleId :
VL0429ABS01



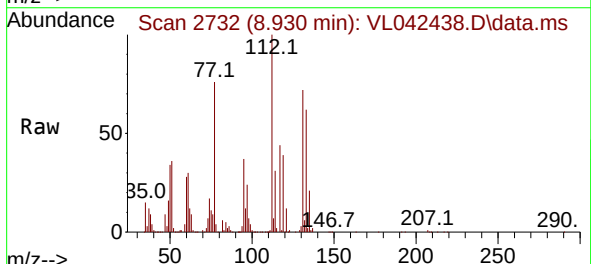
Tgt Ion:117 Resp: 27231
Ion Ratio Lower Upper
117 100
82 79.2 57.8 86.6
119 32.0 25.2 37.8

Manual Integrations
APPROVED

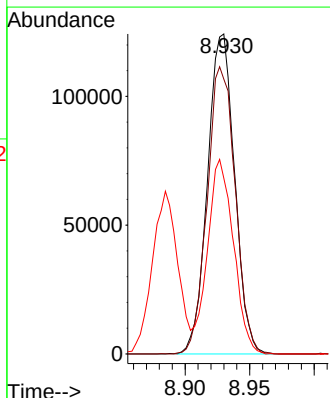
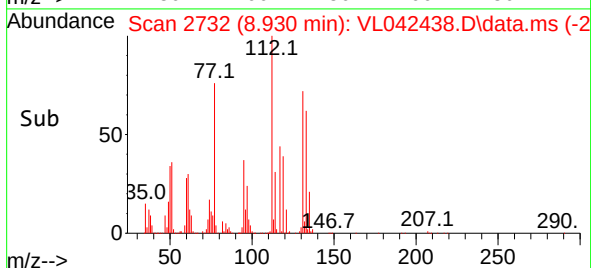
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

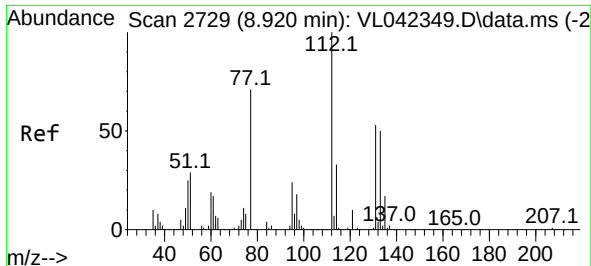


#56
1,1,1,2-Tetrachloroethane
Concen: 10.981 ppbv
RT: 8.930 min Scan# 2732
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08



Tgt Ion:131 Resp: 180979
Ion Ratio Lower Upper
131 100
133 93.2 78.3 117.5
119 58.6 48.7 73.1





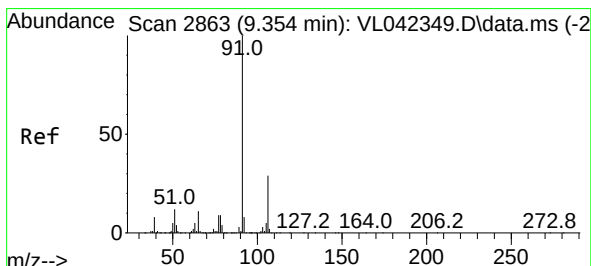
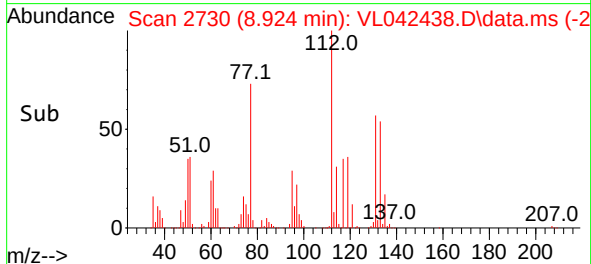
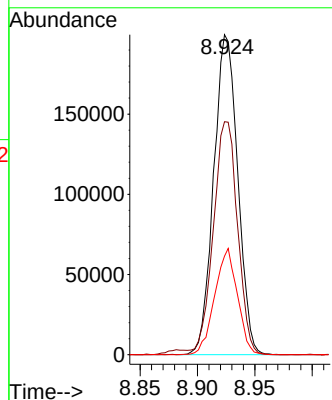
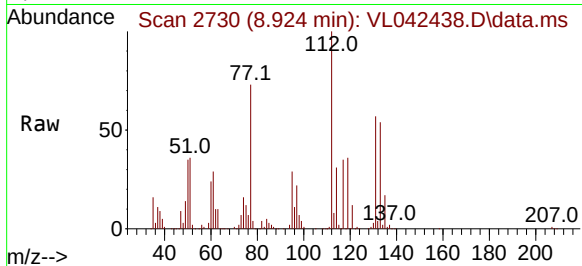
#57
Chlorobenzene
Concen: 10.270 ppbv
RT: 8.924 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VL0429ABS01

Tgt Ion: 112 Resp: 29086
Ion Ratio Lower Upper
112 100
77 72.8 57.8 86.6
114 30.8 29.3 35.9

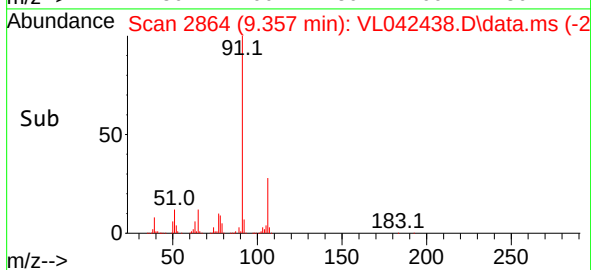
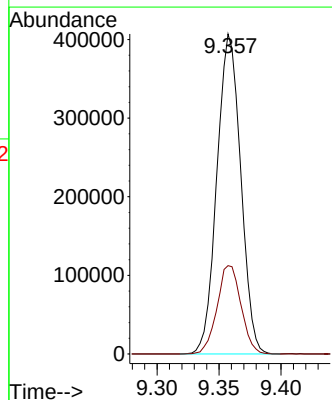
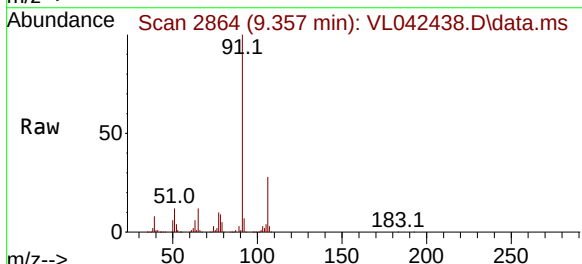
Manual Integrations
APPROVED

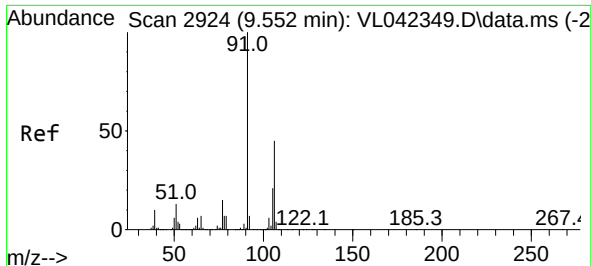
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025



#58
Ethyl Benzene
Concen: 10.111 ppbv
RT: 9.357 min Scan# 2864
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 91 Resp: 545497
Ion Ratio Lower Upper
91 100
106 27.6 23.0 34.4





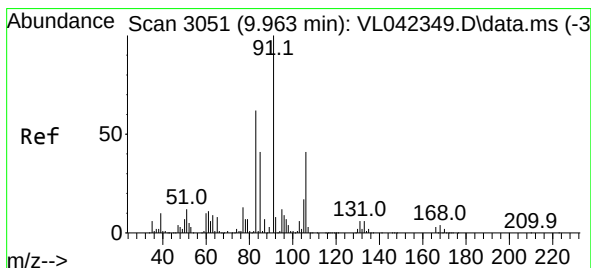
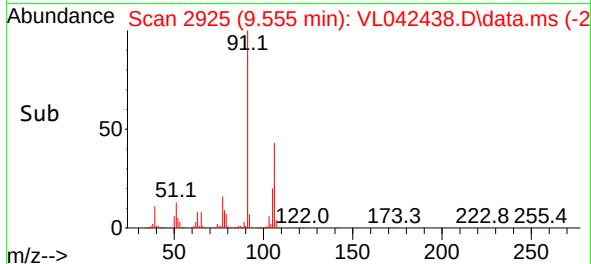
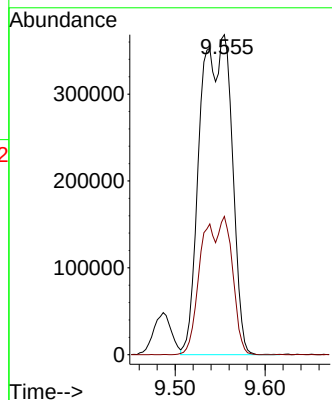
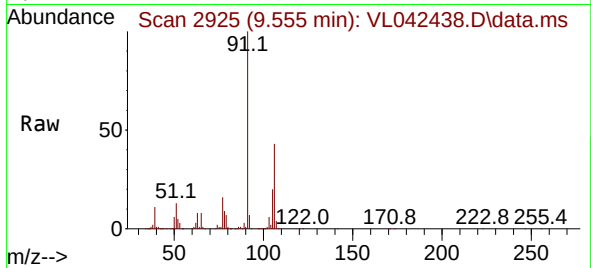
#59
m/p-Xylene
Concen: 20.857 ppbv m
RT: 9.555 min Scan# 2924
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VL0429ABS01

Tgt Ion: 91 Resp: 906532
Ion Ratio Lower Upper
91 100
106 41.8 35.4 53.2

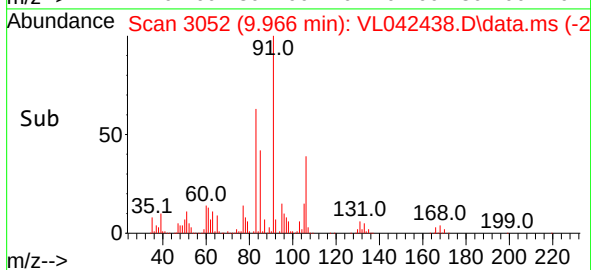
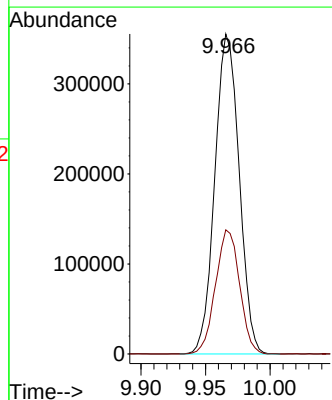
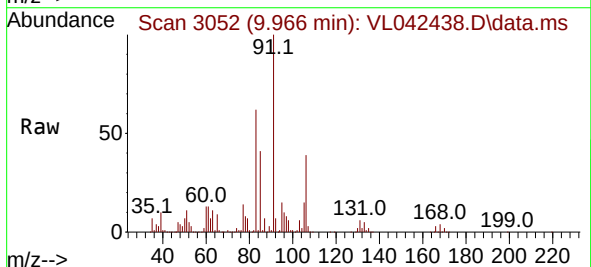
Manual Integrations
APPROVED

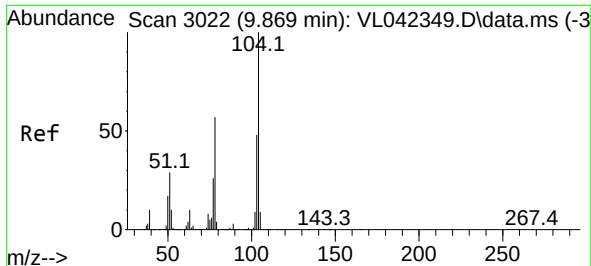
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025



#60
o-Xylene
Concen: 10.639 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 91 Resp: 465645
Ion Ratio Lower Upper
91 100
106 38.4 21.1 63.4





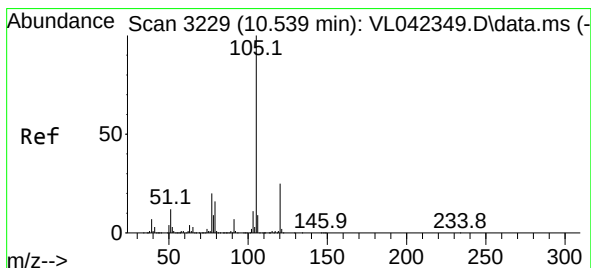
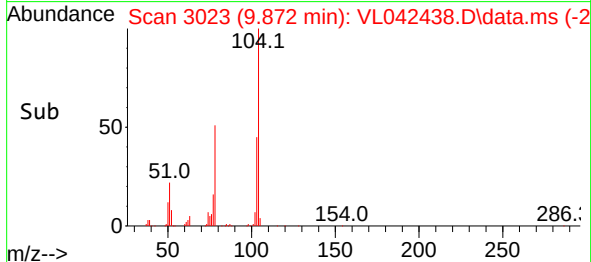
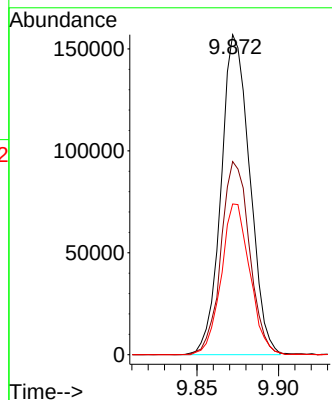
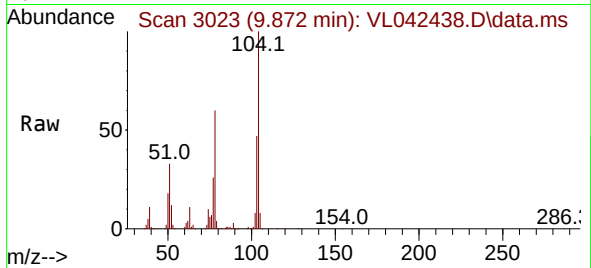
#61
Styrene
Concen: 9.178 ppbv
RT: 9.872 min Scan# 3022
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Instrument : MSVOA_L
ClientSampleId : VL0429ABS01

Tgt Ion:104 Resp: 19174
Ion Ratio Lower Upper
104 100
78 60.1 44.6 66.8
103 47.0 37.4 56.0

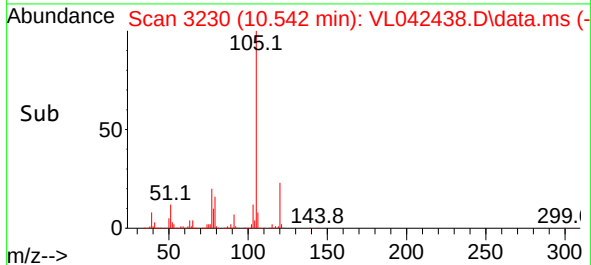
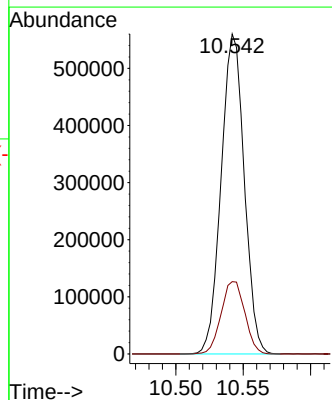
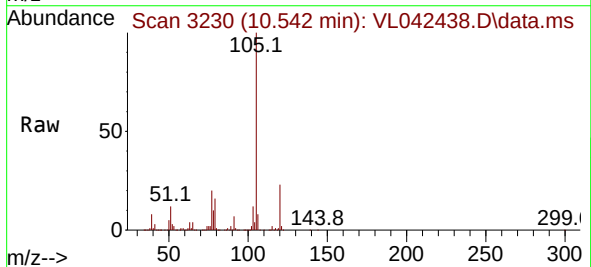
Manual Integrations
APPROVED

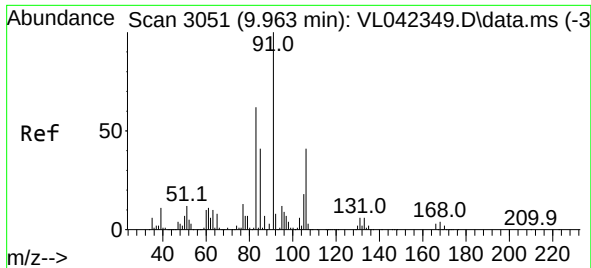
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025



#62
Isopropylbenzene
Concen: 10.393 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

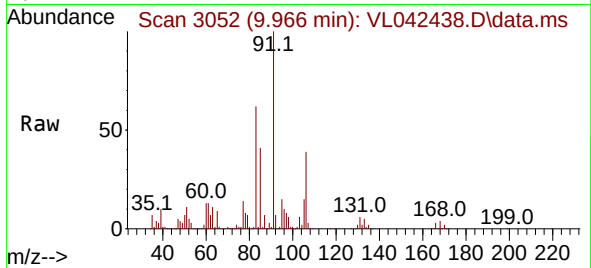
Tgt Ion:105 Resp: 667839
Ion Ratio Lower Upper
105 100
120 23.2 19.8 29.8





#63
1,1,2,2-Tetrachloroethane
Concen: 9.819 ppbv
RT: 9.966 min Scan# 3051
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

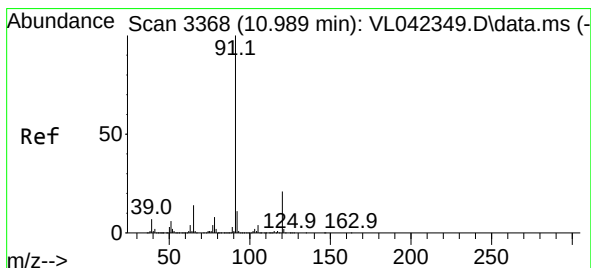
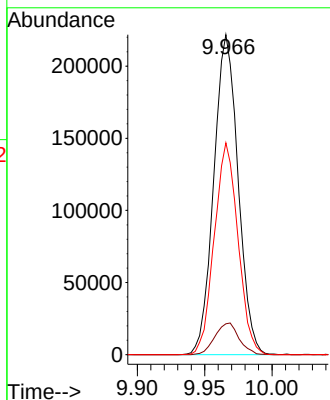
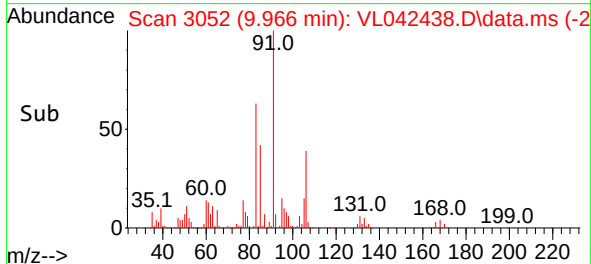
Instrument : MSVOA_L
ClientSampleId : VL0429ABS01



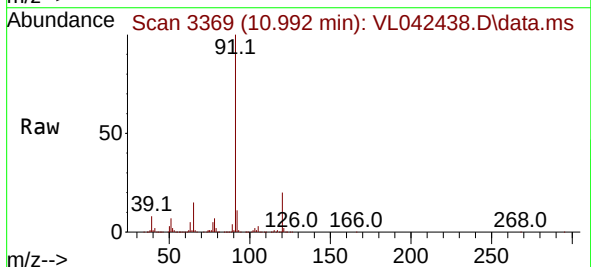
Tgt Ion: 83 Resp: 27849
Ion Ratio Lower Upper
83 100
131 9.8 4.5 13.7
85 64.4 32.4 97.0

Manual Integrations
APPROVED

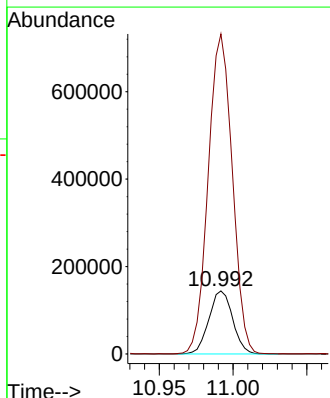
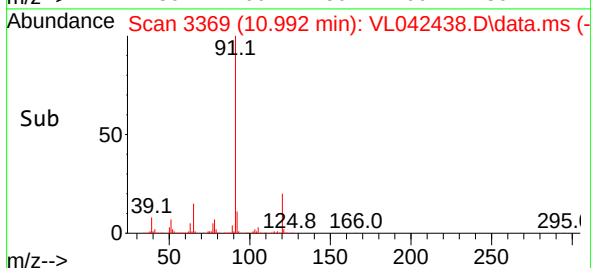
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

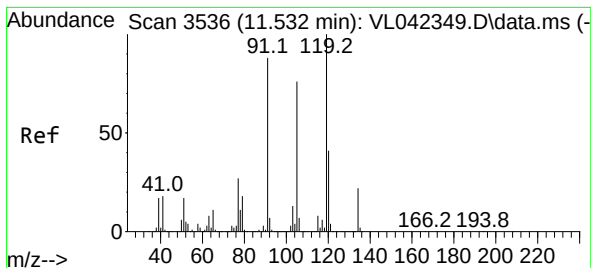


#64
n-propylbenzene
Concen: 9.987 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08



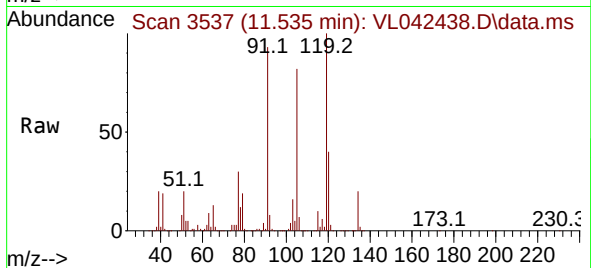
Tgt Ion:120 Resp: 161309
Ion Ratio Lower Upper
120 100
91 515.8 392.4 588.6





#65
tert-Butylbenzene
Concen: 10.260 ppbv
RT: 11.535 min Scan# 3536
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

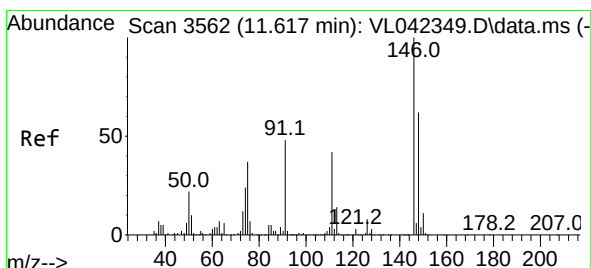
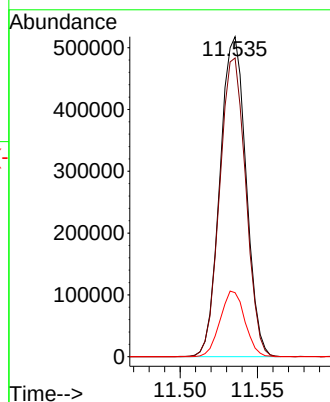
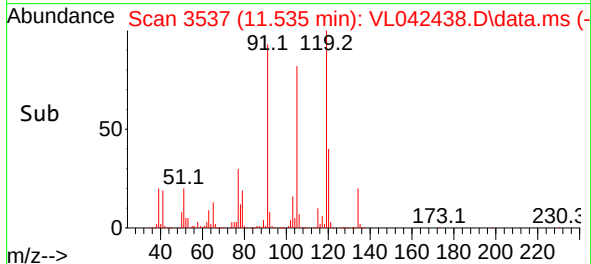
Instrument :
MSVOA_L
ClientSampleId :
VL0429ABS01



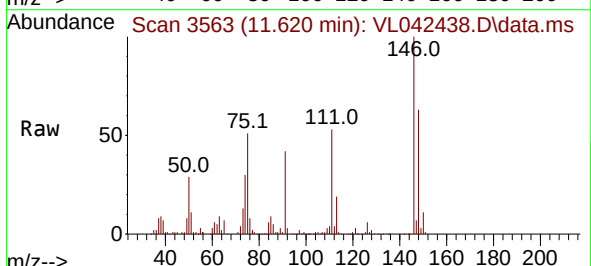
Tgt Ion: 119 Resp: 605972
Ion Ratio Lower Upper
119 100
91 93.3 74.6 111.8
134 19.5 18.8 28.2

Manual Integrations
APPROVED

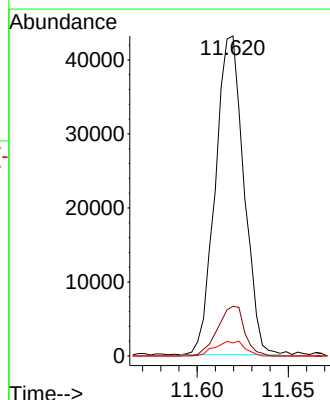
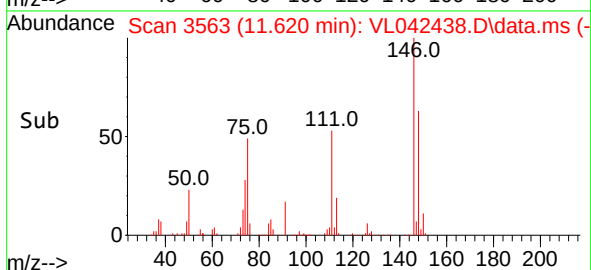
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

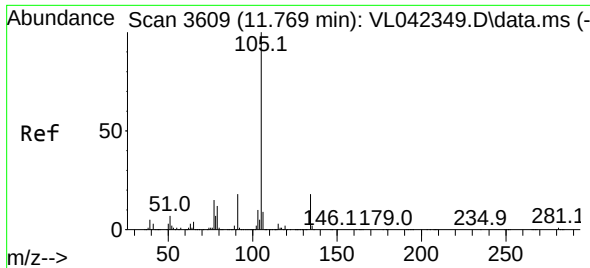


#66
Benzyl Chloride
Concen: 7.229 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08



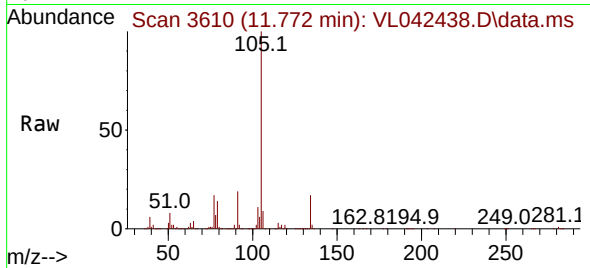
Tgt Ion: 91 Resp: 46913
Ion Ratio Lower Upper
91 100
126 14.8 11.8 17.6
128 4.8 4.5 6.7





#67
 sec-Butylbenzene
 Concen: 10.569 ppbv
 RT: 11.772 min Scan# 3610
 Delta R.T. 0.003 min
 Lab File: VL042438.D
 Acq: 29 Apr 2025 10:08

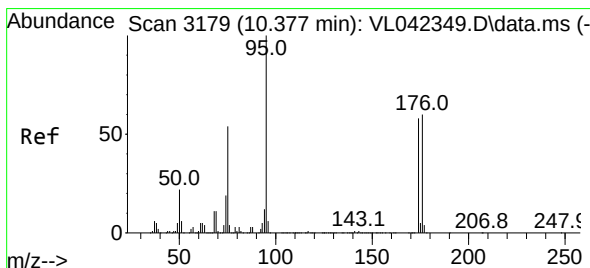
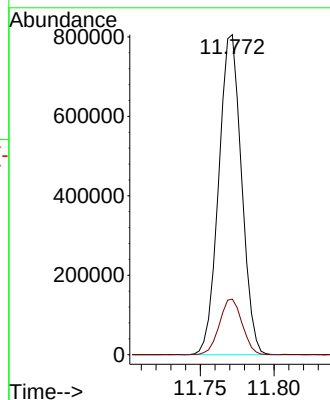
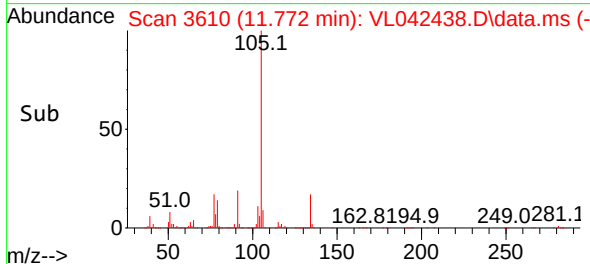
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0429ABS01



Tgt Ion:105 Resp: 868275
 Ion Ratio Lower Upper
 105 100
 134 17.3 14.6 21.8

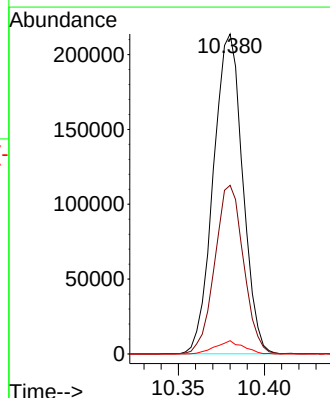
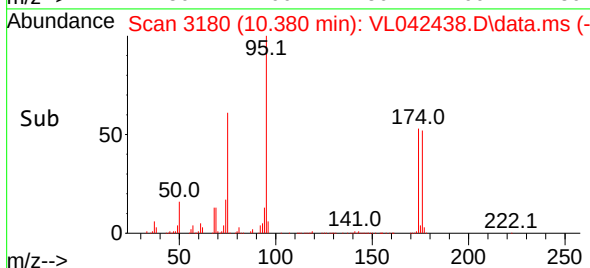
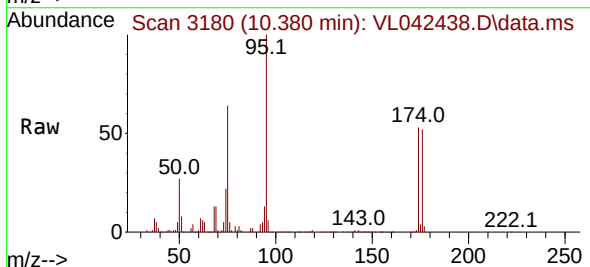
Manual Integrations
 APPROVED

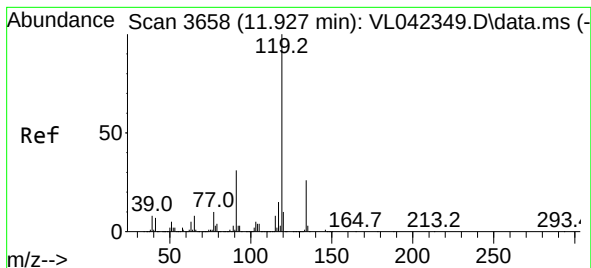
Reviewed By :Semsettin Yesilyurt 04/30/2025
 Supervised By :Mahesh Dadoda 04/30/2025



#68
 1-Bromo-4-Fluorobenzene
 Concen: 11.307 ppbv
 RT: 10.380 min Scan# 3180
 Delta R.T. 0.003 min
 Lab File: VL042438.D
 Acq: 29 Apr 2025 10:08

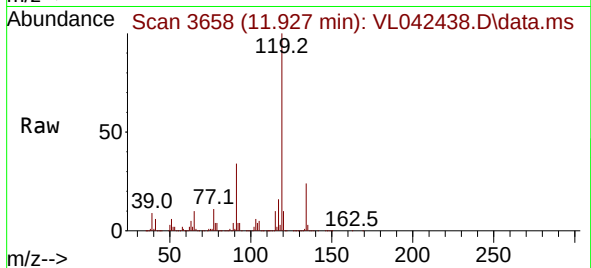
Tgt Ion: 95 Resp: 253021
 Ion Ratio Lower Upper
 95 100
 174 52.0 48.5 72.7
 175 3.9 3.7 5.5





#69
p-Isopropyltoluene
Concen: 10.282 ppbv
RT: 11.927 min Scan# 3658
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

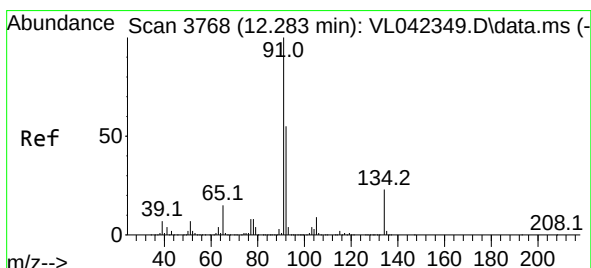
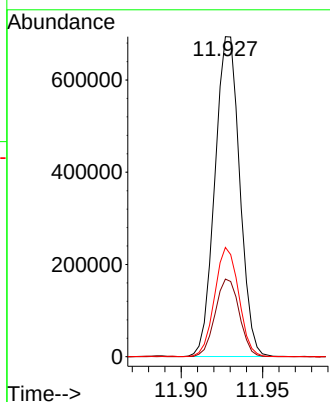
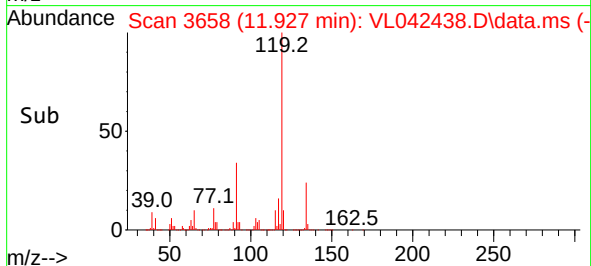
Instrument :
MSVOA_L
ClientSampleId :
VL0429ABS01



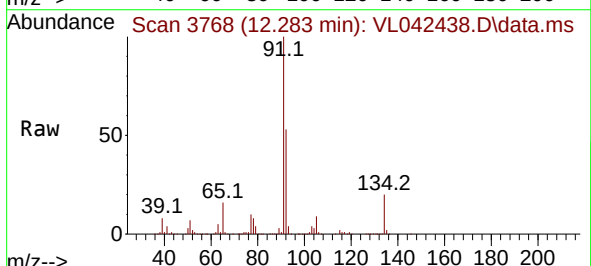
Tgt Ion:119 Resp: 733790
Ion Ratio Lower Upper
119 100
134 23.7 20.0 30.0
91 33.4 24.4 36.6

Manual Integrations
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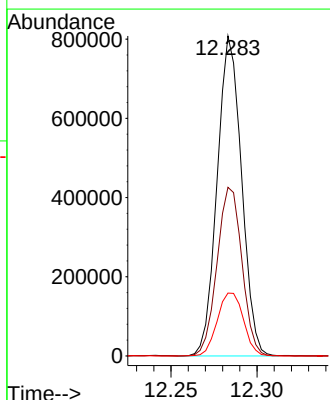
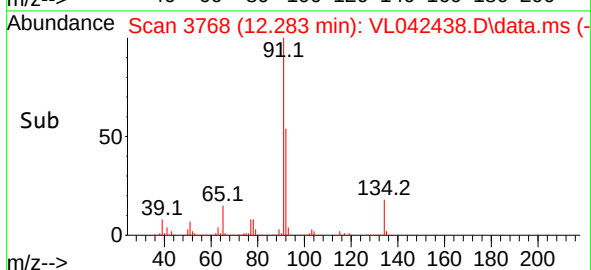
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

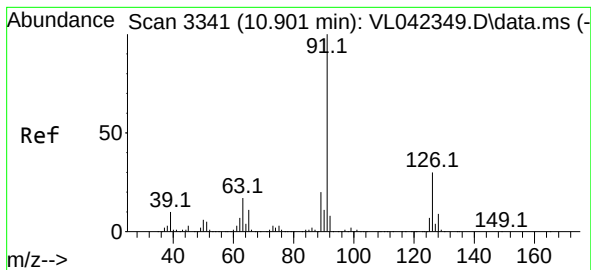


#70
n-Butylbenzene
Concen: 10.717 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08



Tgt Ion: 91 Resp: 796622
Ion Ratio Lower Upper
91 100
92 54.1 44.2 66.4
134 21.1 18.2 27.4





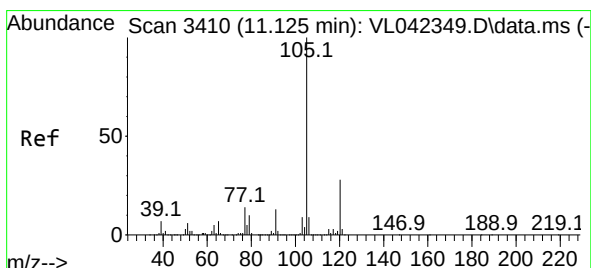
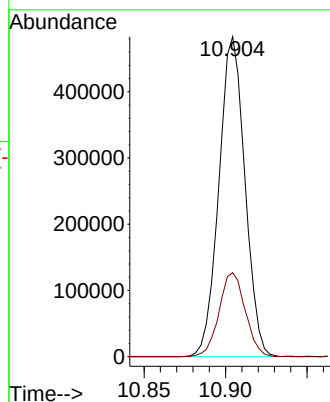
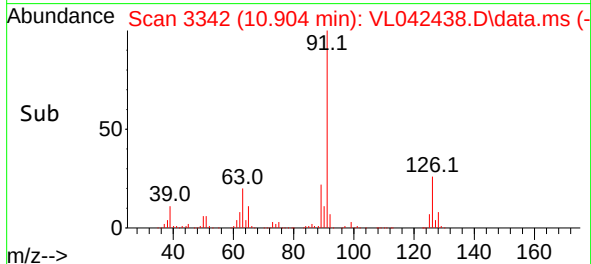
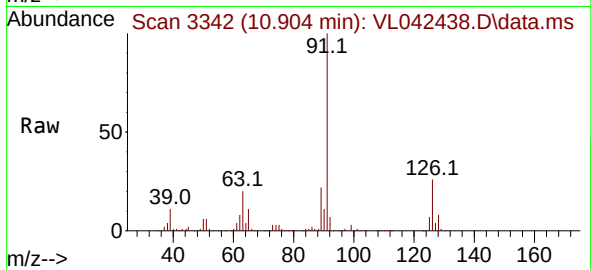
#71
2-Chlorotoluene
Concen: 10.614 ppbv
RT: 10.904 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VL0429ABS01

Tgt Ion: 91 Resp: 53495
Ion Ratio Lower Upper
91 100
126 26.4 11.4 45.4

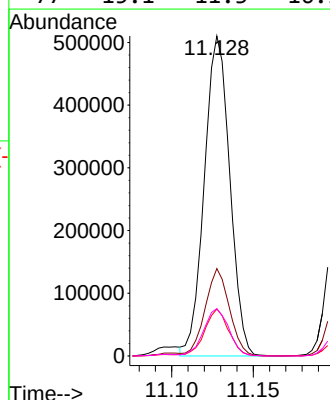
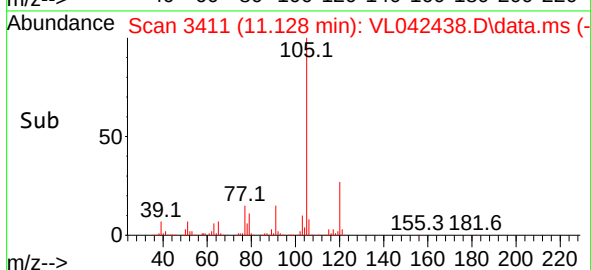
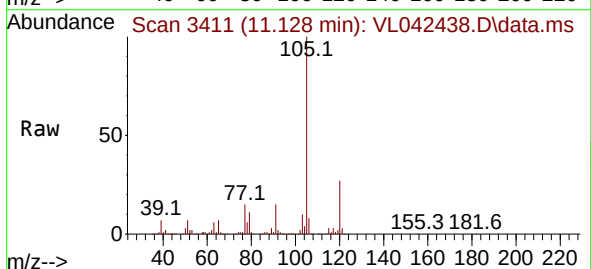
Manual Integrations
APPROVED

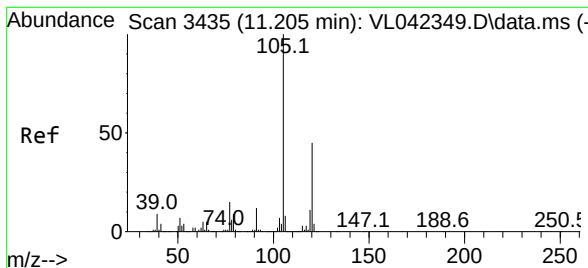
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025



#72
4-Ethyltoluene
Concen: 10.351 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

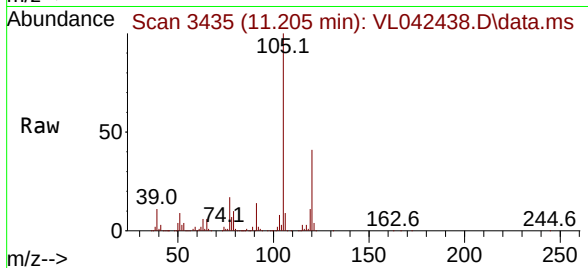
Tgt Ion:105 Resp: 553879
Ion Ratio Lower Upper
105 100
120 26.9 23.2 34.8
91 14.3 10.4 15.6
77 15.1 11.3 16.9





#73
1,3,5-Trimethylbenzene
Concen: 10.403 ppbv
RT: 11.205 min Scan# 3435
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

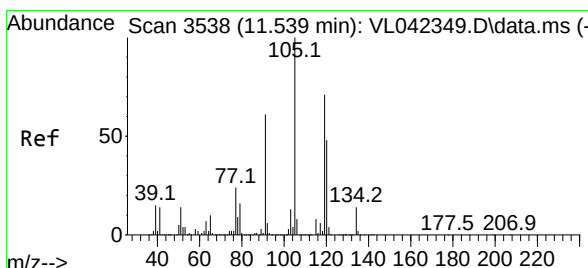
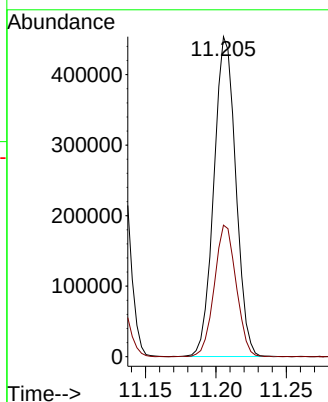
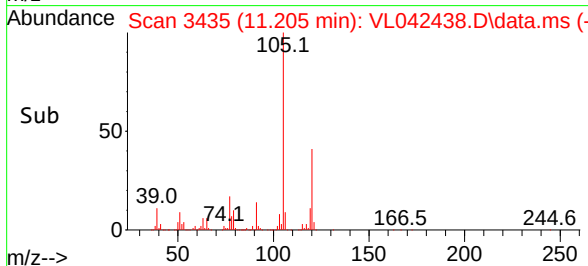
Instrument :
MSVOA_L
ClientSampleId :
VL0429ABS01



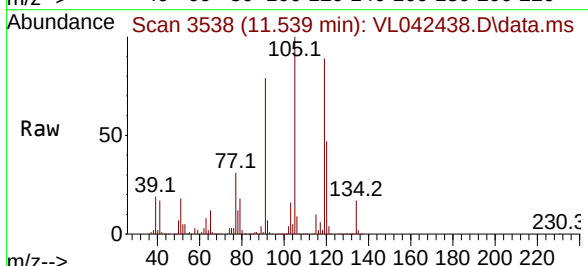
Tgt Ion:105 Resp: 491459
Ion Ratio Lower Upper
105 100
120 41.1 35.6 53.4

Manual Integrations
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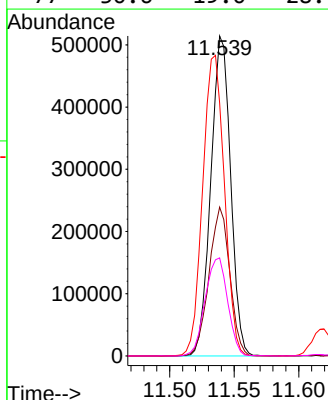
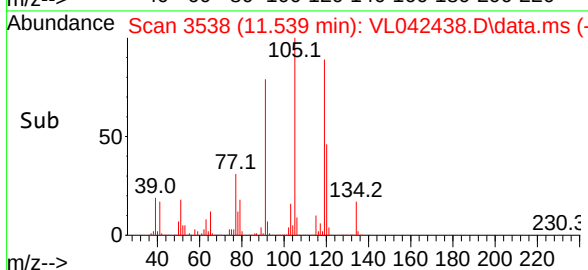
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

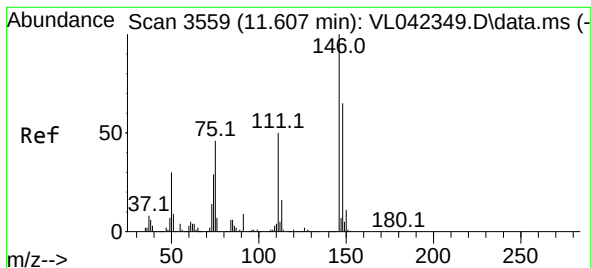


#74
1,2,4-Trimethylbenzene
Concen: 9.939 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08



Tgt Ion:105 Resp: 548408
Ion Ratio Lower Upper
105 100
120 46.5 38.1 57.1
91 79.0 48.8 73.2#
77 30.6 19.0 28.4#





#75

1,3-Dichlorobenzene

Concen: 9.931 ppbv

RT: 11.610 min Scan# 3559

Delta R.T. 0.003 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

VL0429ABS01

Tgt Ion:146 Resp: 284809

Ion Ratio Lower Upper

146 100

111 52.1 24.3 72.8

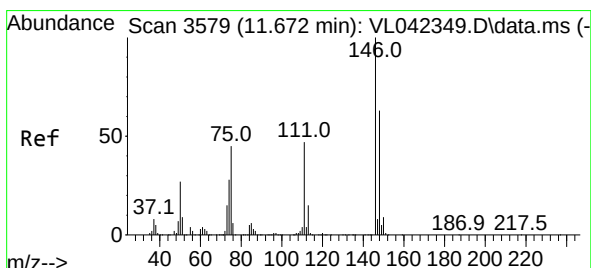
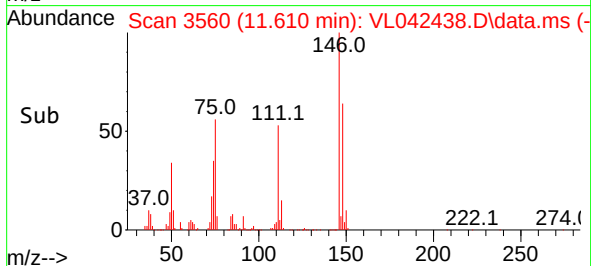
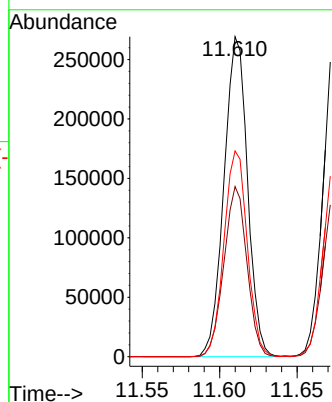
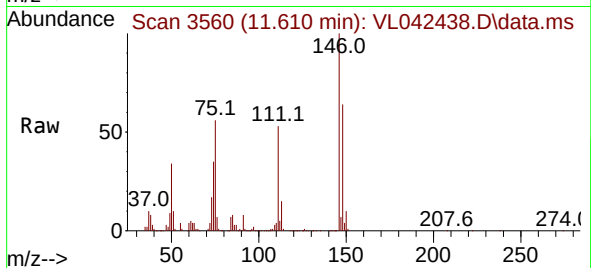
148 63.8 31.6 94.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/30/2025

Supervised By :Mahesh Dadoda 04/30/2025



#76

1,4-Dichlorobenzene

Concen: 9.907 ppbv

RT: 11.675 min Scan# 3580

Delta R.T. 0.003 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

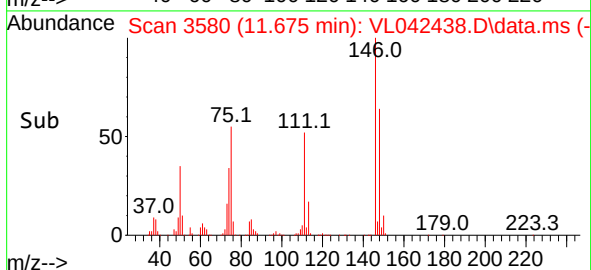
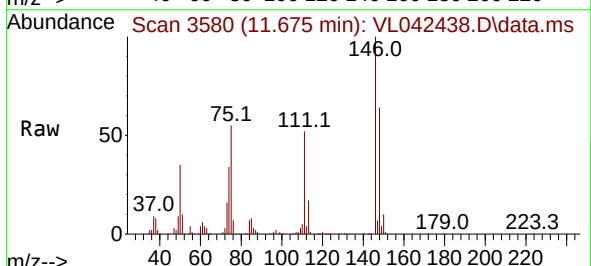
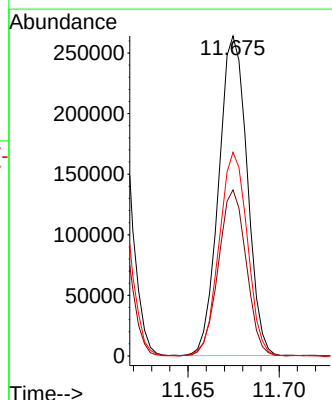
Tgt Ion:146 Resp: 285571

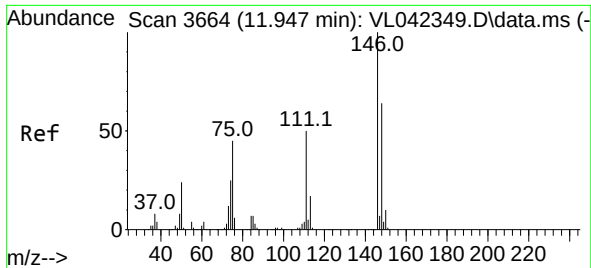
Ion Ratio Lower Upper

146 100

111 51.1 24.2 72.6

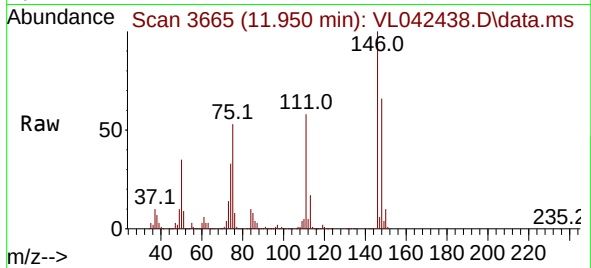
148 63.6 32.1 96.5





#77
1,2-Dichlorobenzene
Concen: 10.128 ppbv
RT: 11.950 min Scan# 3665
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

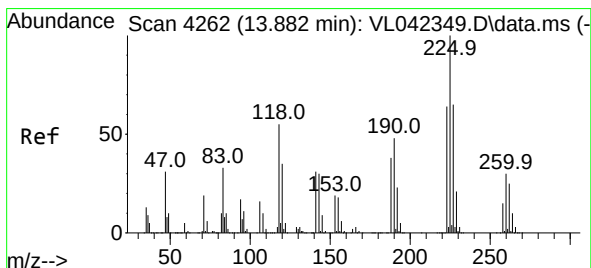
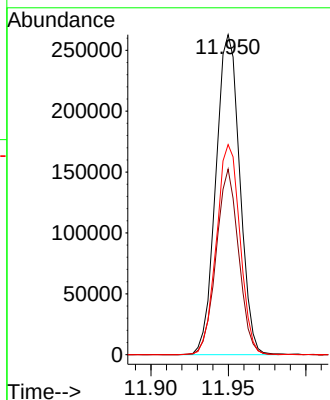
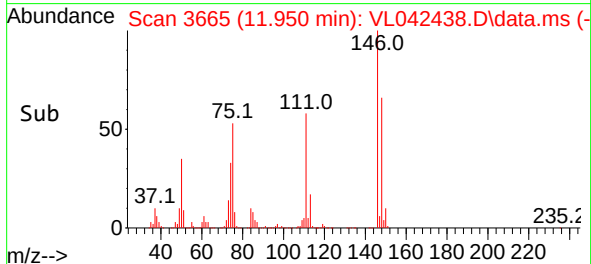
Instrument :
MSVOA_L
ClientSampleId :
VL0429ABS01



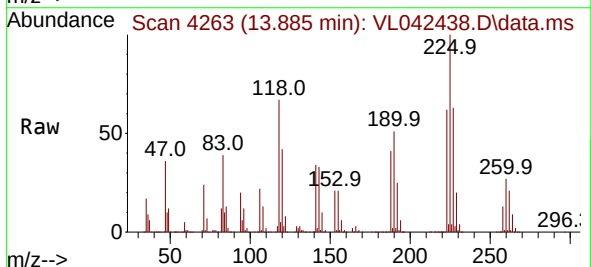
Tgt Ion:146 Resp: 282424
Ion Ratio Lower Upper
146 100
111 54.6 25.3 75.9
148 64.8 31.5 94.5

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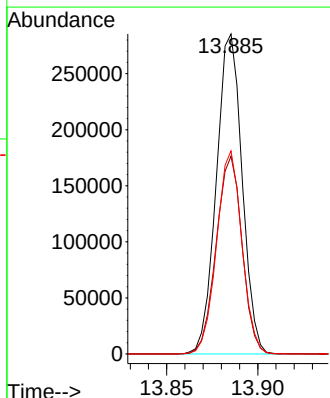
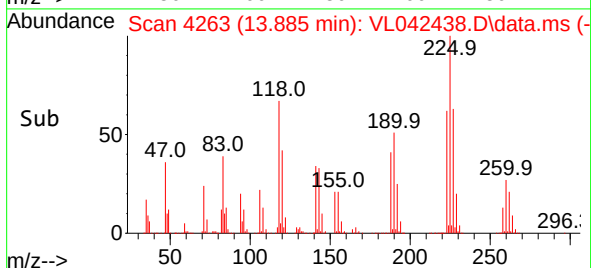
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

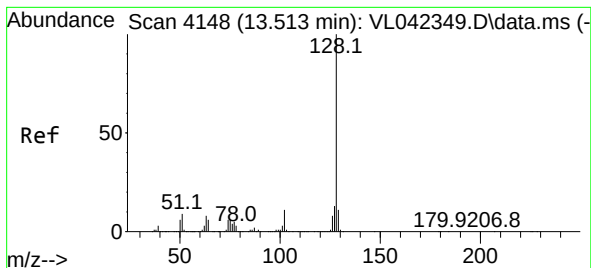


#78
Hexachloro-1,3-Butadiene
Concen: 9.977 ppbv
RT: 13.885 min Scan# 4263
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08



Tgt Ion:225 Resp: 280954
Ion Ratio Lower Upper
225 100
223 61.8 50.3 75.5
227 61.9 51.5 77.3





#79

Naphthalene

Concen: 9.425 ppbv

RT: 13.516 min Scan# 4148

Delta R.T. 0.003 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

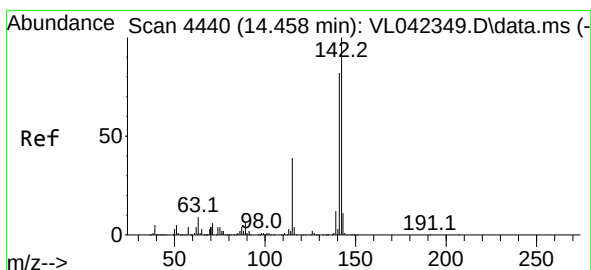
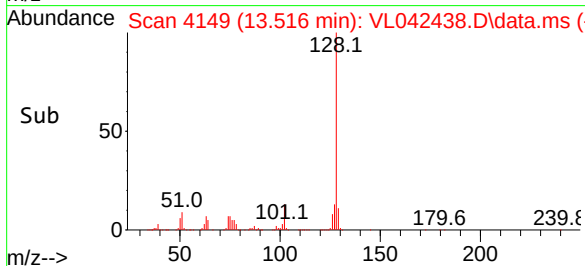
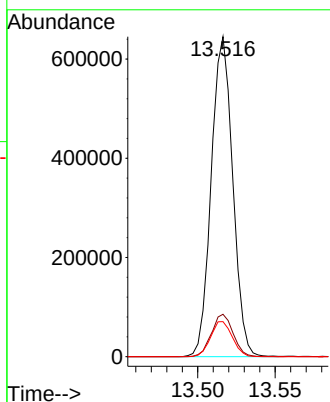
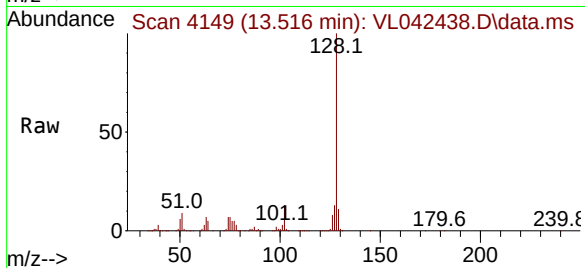
VL0429ABS01

Tgt Ion:	128	Resp:	621879
Ion Ratio	Lower	Upper	
128	100		
127	13.2	10.6	15.8
129	11.0	8.6	12.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025



#80

Naphthalene,2-methyl-

Concen: 8.317 ppbv

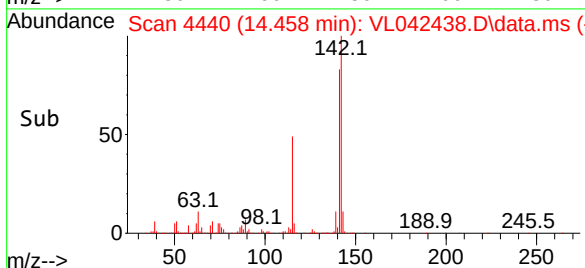
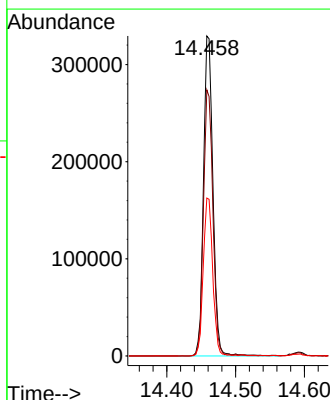
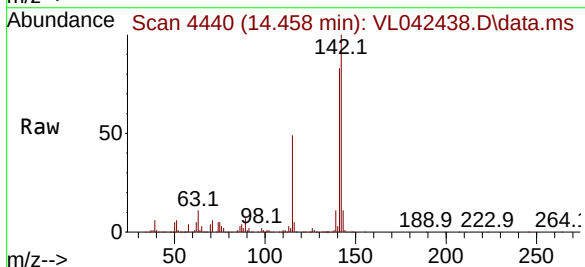
RT: 14.458 min Scan# 4440

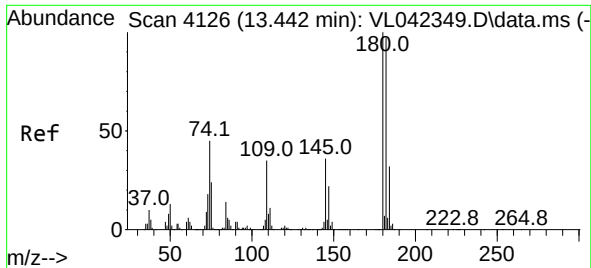
Delta R.T. -0.000 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

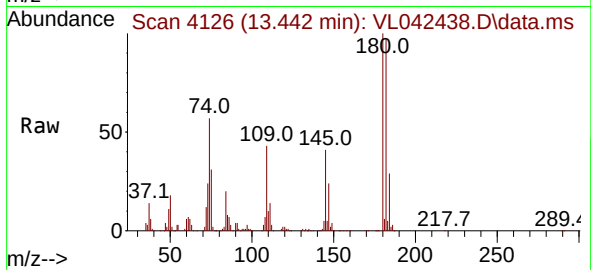
Tgt Ion:	142	Resp:	312733
Ion Ratio	Lower	Upper	
142	100		
141	84.1	66.8	100.2
115	49.9	33.4	50.2





#81
 1,2,4-Trichlorobenzene
 Concen: 9.498 ppbv
 RT: 13.442 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL042438.D
 Acq: 29 Apr 2025 10:08

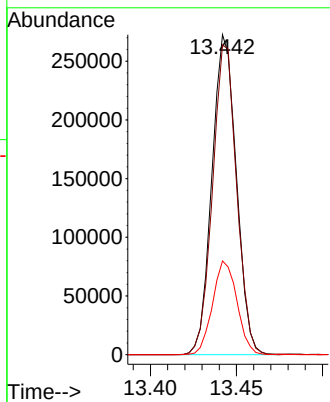
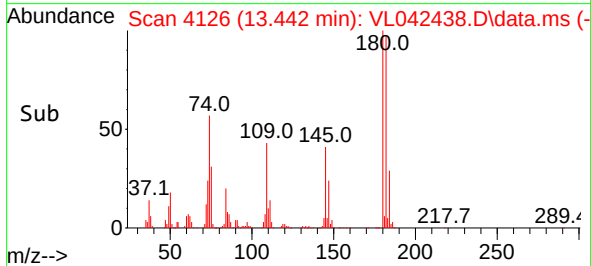
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0429ABS01



Tgt Ion:180 Resp: 26908
 Ion Ratio Lower Upper
 180 100
 182 95.8 76.8 115.2
 184 29.3 24.6 36.8

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 04/30/2025
 Supervised By :Mahesh Dadoda 04/30/2025



Manual Integration Report

Sequence:	VL041725	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC010	VL042349.D	m/p-Xylene	SAM	4/18/2025 4:19:07 PM	MMDadoda	4/18/2025 10:45:20 PM	Peak Integrated by Software
VSTDICCC002	VL042350.D	1,4-Dioxane	SAM	4/18/2025 4:19:12 PM	MMDadoda	4/18/2025 10:45:17 PM	Peak Integrated by Software
VSTDICCC002	VL042350.D	cis-1,3-Dichloropropene	SAM	4/18/2025 4:19:12 PM	MMDadoda	4/18/2025 10:45:17 PM	Peak Integrated by Software
VSTDICCC002	VL042350.D	Ethanol	SAM	4/18/2025 4:19:12 PM	MMDadoda	4/18/2025 10:45:17 PM	Peak Integrated by Software
VSTDICCC002	VL042350.D	Heptane	SAM	4/18/2025 4:19:12 PM	MMDadoda	4/18/2025 10:45:17 PM	Peak Integrated by Software
VSTDICCC002	VL042350.D	m/p-Xylene	SAM	4/18/2025 4:19:12 PM	MMDadoda	4/18/2025 10:45:17 PM	Peak Integrated by Software
VSTDICCC002	VL042350.D	Trichloroethene	SAM	4/18/2025 4:19:12 PM	MMDadoda	4/18/2025 10:45:17 PM	Peak Integrated by Software
VSTDICCC001	VL042351.D	1,1,2-Trichloroethane	SAM	4/18/2025 4:19:17 PM	MMDadoda	4/18/2025 10:45:15 PM	Peak Integrated by Software
VSTDICCC001	VL042351.D	1,3-Butadiene	SAM	4/18/2025 4:19:17 PM	MMDadoda	4/18/2025 10:45:15 PM	Peak Integrated by Software
VSTDICCC001	VL042351.D	1,4-Dioxane	SAM	4/18/2025 4:19:17 PM	MMDadoda	4/18/2025 10:45:15 PM	Peak Integrated by Software
VSTDICCC001	VL042351.D	2,2,4-Trimethylpentane	SAM	4/18/2025 4:19:17 PM	MMDadoda	4/18/2025 10:45:15 PM	Peak Integrated by Software
VSTDICCC001	VL042351.D	cis-1,3-Dichloropropene	SAM	4/18/2025 4:19:17 PM	MMDadoda	4/18/2025 10:45:15 PM	Peak Integrated by Software
VSTDICCC001	VL042351.D	Cyclohexane	SAM	4/18/2025 4:19:17 PM	MMDadoda	4/18/2025 10:45:15 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL041725	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VL042351.D	Ethanol	SAM	4/18/2025 4:19:17 PM	MMDadoda	4/18/2025 10:45:15 PM	Peak Integrated by Software
VSTDICC001	VL042351.D	Heptane	SAM	4/18/2025 4:19:17 PM	MMDadoda	4/18/2025 10:45:15 PM	Peak Integrated by Software
VSTDICC001	VL042351.D	m/p-Xylene	SAM	4/18/2025 4:19:17 PM	MMDadoda	4/18/2025 10:45:15 PM	Peak Integrated by Software
VSTDICC001	VL042351.D	Methyl Methacrylate	SAM	4/18/2025 4:19:17 PM	MMDadoda	4/18/2025 10:45:15 PM	Peak Integrated by Software
VSTDICC001	VL042351.D	t-1,3-Dichloropropene	SAM	4/18/2025 4:19:17 PM	MMDadoda	4/18/2025 10:45:15 PM	Peak Integrated by Software
VSTDICC0.5	VL042352.D	1,1,2-Trichloroethane	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software
VSTDICC0.5	VL042352.D	1,2-Dichloropropane	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software
VSTDICC0.5	VL042352.D	1,4-Dioxane	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software
VSTDICC0.5	VL042352.D	4-Methyl-2-Pentanone	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software
VSTDICC0.5	VL042352.D	Chlorobenzene	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software
VSTDICC0.5	VL042352.D	cis-1,3-Dichloropropene	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software
VSTDICC0.5	VL042352.D	Ethanol	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software
VSTDICC0.5	VL042352.D	Heptane	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL041725	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDIC0.5	VL042352.D	m/p-Xylene	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software
VSTDIC0.5	VL042352.D	Methyl Methacrylate	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software
VSTDIC0.5	VL042352.D	t-1,3-Dichloropropene	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software
VSTDIC0.5	VL042352.D	Tetrahydrofuran	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software
VSTDIC0.1	VL042353.D	1,1,1-Trichloroethane	SAM	4/18/2025 4:20:37 PM	MMDadoda	4/18/2025 10:45:04 PM	Peak Integrated by Software
VSTDIC0.1	VL042353.D	1,1,2,2-Tetrachloroethane	SAM	4/18/2025 4:20:37 PM	MMDadoda	4/18/2025 10:45:04 PM	Peak Integrated by Software
VSTDIC0.1	VL042353.D	1,2-Dibromoethane	SAM	4/18/2025 4:20:37 PM	MMDadoda	4/18/2025 10:45:04 PM	Peak Integrated by Software
VSTDIC0.1	VL042353.D	Tetrachloroethene	SAM	4/18/2025 4:20:37 PM	MMDadoda	4/18/2025 10:45:04 PM	Peak Integrated by Software
VSTDIC0.1	VL042353.D	Trichloroethene	SAM	4/18/2025 4:20:37 PM	MMDadoda	4/18/2025 10:45:04 PM	Peak Integrated by Software
VSTDIC0.03	VL042354.D	1,1,1-Trichloroethane	SAM	4/18/2025 4:19:24 PM	MMDadoda	4/18/2025 10:45:02 PM	Peak Integrated by Software
VSTDIC0.03	VL042354.D	1,1,2,2-Tetrachloroethane	SAM	4/18/2025 4:19:24 PM	MMDadoda	4/18/2025 10:45:02 PM	Peak Integrated by Software
VSTDIC0.03	VL042354.D	Carbon Tetrachloride	SAM	4/18/2025 4:19:24 PM	MMDadoda	4/18/2025 10:45:02 PM	Peak Integrated by Software
VSTDIC0.03	VL042354.D	Tetrachloroethene	SAM	4/18/2025 4:19:24 PM	MMDadoda	4/18/2025 10:45:02 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

vl041725

Instrument

MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.03	VL042354.D	Trichloroethene	SAM	4/18/2025 4:19:24 PM	MMDadoda	4/18/2025 10:45:02 PM	Peak Integrated by Software
VSTDICC015	VL042355.D	m/p-Xylene	SAM	4/18/2025 4:21:35 PM	MMDadoda	4/18/2025 10:44:59 PM	Peak Integrated by Software
VSTDICV010	VL042356.D	m/p-Xylene	SAM	4/18/2025 4:20:42 PM	MMDadoda	4/18/2025 10:44:57 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL042925	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL042436.D	1,1,2-Trichloroethane	SAM	4/30/2025 7:49:08 AM	MMDadoda	4/30/2025 2:26:33 PM	Peak Integrated by Software
VSTDCCC010	VL042436.D	m/p-Xylene	SAM	4/30/2025 7:49:08 AM	MMDadoda	4/30/2025 2:26:33 PM	Peak Integrated by Software
VL0429ABS01	VL042438.D	m/p-Xylene	SAM	4/30/2025 7:49:14 AM	MMDadoda	4/30/2025 2:26:38 PM	Peak Integrated by Software
VL0429ABS01	VL042438.D	Methyl Methacrylate	SAM	4/30/2025 7:49:14 AM	MMDadoda	4/30/2025 2:26:38 PM	Peak Integrated by Software
Q1908-01	VL042443.D	Chlorodifluoromethane	SAM	4/30/2025 7:51:56 AM	MMDadoda	4/30/2025 2:27:05 PM	Peak Integrated by Software
Q1908-01	VL042443.D	Hexane	SAM	4/30/2025 7:51:56 AM	MMDadoda	4/30/2025 2:27:05 PM	Peak Integrated by Software
Q1908-01	VL042443.D	Tetrachloroethene	SAM	4/30/2025 7:51:56 AM	MMDadoda	4/30/2025 2:27:05 PM	Peak Integrated by Software
Q1908-01	VL042443.D	Toluene	SAM	4/30/2025 7:51:56 AM	MMDadoda	4/30/2025 2:27:05 PM	Peak Integrated by Software
Q1908-03	VL042445.D	Carbon Tetrachloride	SAM	4/30/2025 7:51:26 AM	MMDadoda	4/30/2025 2:27:19 PM	Peak Integrated by Software
Q1908-03	VL042445.D	Chlorodifluoromethane	SAM	4/30/2025 7:51:26 AM	MMDadoda	4/30/2025 2:27:19 PM	Peak Integrated by Software
Q1908-03	VL042445.D	Isopropyl Alcohol	SAM	4/30/2025 7:51:26 AM	MMDadoda	4/30/2025 2:27:19 PM	Peak Integrated by Software
Q1908-01DUP	VL042454.D	Carbon Tetrachloride	SAM	4/30/2025 7:53:16 AM	MMDadoda	4/30/2025 2:27:58 PM	Peak Integrated by Software
Q1908-01DUP	VL042454.D	Chlorodifluoromethane	SAM	4/30/2025 7:53:16 AM	MMDadoda	4/30/2025 2:27:58 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	vl042925	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1908-01DUP	VL042454.D	Tetrachloroethene	SAM	4/30/2025 7:53:16 AM	MMDadoda	4/30/2025 2:27:58 PM	Peak Integrated by Software
Q1908-01DUP	VL042454.D	Toluene	SAM	4/30/2025 7:53:16 AM	MMDadoda	4/30/2025 2:27:58 PM	Peak Integrated by Software
Q1908-01DUP	VL042454.D	Trichlorofluoromethane	SAM	4/30/2025 7:53:16 AM	MMDadoda	4/30/2025 2:27:58 PM	Peak Integrated by Software
Q1908-02	VL042456.D	Carbon Tetrachloride	SAM	4/30/2025 7:49:27 AM	MMDadoda	4/30/2025 2:28:06 PM	Peak Integrated by Software
Q1908-02	VL042456.D	Chlorodifluoromethane	SAM	4/30/2025 7:49:27 AM	MMDadoda	4/30/2025 2:28:06 PM	Peak Integrated by Software

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL041725

Review By	Semsettin Yesilyurt	Review On	4/18/2025 4:23:02 PM		
Supervise By	Maresh Dadoda	Supervise On	4/18/2025 10:46:12 PM		
SubDirectory	VL041725	HP Acquire Method	TO15AIR.M	HP Processing Method	VL041725AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2590			
Initial Calibration Stds		AP2598,AP2599,AP2600			
CCC		AP2598			
Internal Standard/PEM		AP2590			
ICV/I.BLK		AP2601			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042348.D	17 Apr 2025 07:50	SY/MD	Ok
2	VSTDICCC010	VL042349.D	17 Apr 2025 09:44	SY/MD	Ok,M
3	VSTDICCC002	VL042350.D	17 Apr 2025 10:17	SY/MD	Ok,M
4	VSTDICCC001	VL042351.D	17 Apr 2025 10:48	SY/MD	Ok,M
5	VSTDICCC0.5	VL042352.D	17 Apr 2025 11:19	SY/MD	Ok,M
6	VSTDICCC0.1	VL042353.D	17 Apr 2025 11:50	SY/MD	Ok,M
7	VSTDICCC0.03	VL042354.D	17 Apr 2025 12:22	SY/MD	Ok,M
8	VSTDICCC015	VL042355.D	17 Apr 2025 12:54	SY/MD	Ok,M
9	VSTDICV010	VL042356.D	17 Apr 2025 13:43	SY/MD	Ok,M
10	VL0417ABL01	VL042357.D	17 Apr 2025 14:23	SY/MD	Ok
11	VL0417ABS01	VL042358.D	17 Apr 2025 15:39	SY/MD	Ok,M
12	Q1665-15	VL042359.D	17 Apr 2025 16:12	SY/MD	Dilution
13	Q1665-15DL	VL042360.D	17 Apr 2025 16:44	SY/MD	Ok,M
14	Q1668-01	VL042361.D	17 Apr 2025 17:17	SY/MD	Dilution
15	Q1668-01DUP	VL042362.D	17 Apr 2025 17:51	SY/MD	Ok,M
16	Q1668-03	VL042363.D	17 Apr 2025 18:24	SY/MD	Dilution
17	Q1668-04	VL042364.D	17 Apr 2025 18:58	SY/MD	Ok,M
18	Q1668-02	VL042365.D	17 Apr 2025 19:31	SY/MD	Ok,M
19	Q1726-01	VL042366.D	17 Apr 2025 20:05	SY/MD	Dilution
20	Q1726-02	VL042367.D	17 Apr 2025 20:38	SY/MD	Dilution
21	Q1726-03	VL042368.D	17 Apr 2025 21:12	SY/MD	Dilution

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL041725

Review By	Semsettin Yesilyurt	Review On	4/18/2025 4:23:02 PM		
Supervise By	Maresh Dadoda	Supervise On	4/18/2025 10:46:12 PM		
SubDirectory	VL041725	HP Acquire Method	TO15AIR.M	HP Processing Method	VL041725AIR.M
STD. NAME		STD REF.#			
Tune/Reschk	AP2590				
Initial Calibration Stds	AP2598,AP2599,AP2600				
CCC	AP2598				
Internal Standard/PEM	AP2590				
ICV/I.BLK	AP2601				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	Q1726-04	VL042369.D	17 Apr 2025 21:45	SY/MD	Dilution
23	Q1726-05	VL042370.D	17 Apr 2025 22:19	SY/MD	Dilution
24	Q1726-06	VL042371.D	17 Apr 2025 22:52	SY/MD	Dilution
25	Q1726-07	VL042372.D	17 Apr 2025 23:26	SY/MD	Dilution
26	Q1726-07DL	VL042373.D	17 Apr 2025 23:57	SY/MD	Dilution
27	Q1668-01DL	VL042374.D	18 Apr 2025 00:28	SY/MD	Ok,M
28	Q1668-03DL	VL042375.D	18 Apr 2025 00:59	SY/MD	Ok,M
29	Q1726-01DL	VL042376.D	18 Apr 2025 01:30	SY/MD	Dilution
30	Q1726-02DL	VL042377.D	18 Apr 2025 02:01	SY/MD	Dilution
31	Q1726-03DL	VL042378.D	18 Apr 2025 02:32	SY/MD	Dilution
32	Q1726-04DL	VL042379.D	18 Apr 2025 03:03	SY/MD	Dilution
33	Q1726-05DL	VL042380.D	18 Apr 2025 03:34	SY/MD	Dilution
34	Q1726-06DL	VL042381.D	18 Apr 2025 04:05	SY/MD	Dilution

M : Manual Integration

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL042925

Review By	Semsettin Yesilyurt	Review On	4/30/2025 2:23:53 PM		
Supervise By	Maresh Dadoda	Supervise On	4/30/2025 2:28:33 PM		
SubDirectory	VL042925	HP Acquire Method	TO15AIR.M	HP Processing Method	VL041725AIR.M
STD. NAME		STD REF.#			
Tune/Reschk	AP2602				
Initial Calibration Stds	AP2598,AP2599,AP2600				
CCC	AP2598				
Internal Standard/PEM	AP2602				
ICV/I.BLK	AP2601				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042435.D	29 Apr 2025 07:55	SY/MD	Ok
2	VSTDCCC010	VL042436.D	29 Apr 2025 08:39	SY/MD	Ok,M
3	VL0429ABL01	VL042437.D	29 Apr 2025 09:25	SY/MD	Ok
4	VL0429ABS01	VL042438.D	29 Apr 2025 10:08	SY/MD	Ok,M
5	Q1880-04	VL042439.D	29 Apr 2025 10:59	SY/MD	Ok,M
6	Q1880-05DL	VL042440.D	29 Apr 2025 11:30	SY/MD	Not Ok
7	Q1880-07DL	VL042441.D	29 Apr 2025 12:02	SY/MD	Ok,M
8	Q1880-11DL	VL042442.D	29 Apr 2025 12:33	SY/MD	Not Ok
9	Q1908-01	VL042443.D	29 Apr 2025 13:11	SY/MD	Ok,M
10	Q1908-02	VL042444.D	29 Apr 2025 13:45	SY/MD	Not Ok
11	Q1908-03	VL042445.D	29 Apr 2025 14:19	SY/MD	Ok,M
12	Q1908-03DL	VL042446.D	29 Apr 2025 14:51	SY/MD	Not Ok
13	Q1880-05	VL042447.D	29 Apr 2025 15:24	SY/MD	Ok,M
14	Q1880-07	VL042448.D	29 Apr 2025 15:58	SY/MD	Dilution
15	Q1880-11	VL042449.D	29 Apr 2025 16:32	SY/MD	Ok,M
16	Q1880-01DL	VL042450.D	29 Apr 2025 17:04	SY/MD	Ok
17	Q1665-07DL	VL042451.D	29 Apr 2025 17:37	SY/MD	Ok,M
18	Q1665-19DL	VL042452.D	29 Apr 2025 18:09	SY/MD	Ok,M
19	Q1665-21DL	VL042453.D	29 Apr 2025 18:42	SY/MD	Ok,M
20	Q1908-01DUP	VL042454.D	29 Apr 2025 19:57	SY/MD	Ok,M
21	Q1908-02DL	VL042455.D	29 Apr 2025 20:30	SY/MD	Not Ok

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL042925

Review By	Semsettin Yesilyurt	Review On	4/30/2025 2:23:53 PM		
Supervise By	Mahesh Dadoda	Supervise On	4/30/2025 2:28:33 PM		
SubDirectory	VL042925	HP Acquire Method	TO15AIR.M	HP Processing Method	VL041725AIR.M
STD. NAME	STD REF.#				
Tune/Reschk	AP2602				
Initial Calibration Stds	AP2598,AP2599,AP2600				
CCC	AP2598				
Internal Standard/PEM	AP2602				
ICV/I.BLK	AP2601				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	Q1908-02	VL042456.D	29 Apr 2025 21:58	SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL041725

Review By	Semsettin Yesilyurt	Review On	4/18/2025 4:23:02 PM
Supervise By	Maresh Dadoda	Supervise On	4/18/2025 10:46:12 PM
SubDirectory	VL041725	HP Acquire Method	TO15AIR.M HP Processing Method VL041725AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2590
Initial Calibration Stds	AP2598,AP2599,AP2600
CCC	AP2598
Internal Standard/PEM	AP2590
ICV/I.BLK	AP2601
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL042348.D	17 Apr 2025 07:50		SY/MD	Ok
2	VSTDICCC010	VSTDICCC010	VL042349.D	17 Apr 2025 09:44		SY/MD	Ok,M
3	VSTDICC002	VSTDICC002	VL042350.D	17 Apr 2025 10:17		SY/MD	Ok,M
4	VSTDICC001	VSTDICC001	VL042351.D	17 Apr 2025 10:48		SY/MD	Ok,M
5	VSTDICC0.5	VSTDICC0.5	VL042352.D	17 Apr 2025 11:19		SY/MD	Ok,M
6	VSTDICC0.1	VSTDICC0.1	VL042353.D	17 Apr 2025 11:50		SY/MD	Ok,M
7	VSTDICC0.03	VSTDICC0.03	VL042354.D	17 Apr 2025 12:22		SY/MD	Ok,M
8	VSTDICC015	VSTDICC015	VL042355.D	17 Apr 2025 12:54		SY/MD	Ok,M
9	VSTDICV010	ICVVL041725	VL042356.D	17 Apr 2025 13:43		SY/MD	Ok,M
10	VL0417ABL01	VL0417ABL01	VL042357.D	17 Apr 2025 14:23		SY/MD	Ok
11	VL0417ABS01	VL0417ABS01	VL042358.D	17 Apr 2025 15:39		SY/MD	Ok,M
12	Q1665-15	IA-B14-1-3242025	VL042359.D	17 Apr 2025 16:12	Need 10X	SY/MD	Dilution
13	Q1665-15DL	IA-B14-1-3242025DL	VL042360.D	17 Apr 2025 16:44		SY/MD	Ok,M
14	Q1668-01	IA-B1-4-3252025	VL042361.D	17 Apr 2025 17:17	Need 4X	SY/MD	Dilution
15	Q1668-01DUP	IA-B1-4-3252025DUP	VL042362.D	17 Apr 2025 17:51		SY/MD	Ok,M
16	Q1668-03	IA-B1-3-3252025	VL042363.D	17 Apr 2025 18:24	Need 4X	SY/MD	Dilution
17	Q1668-04	IA-B1-1-3252025	VL042364.D	17 Apr 2025 18:58		SY/MD	Ok,M
18	Q1668-02	IA-B1-2-3252025	VL042365.D	17 Apr 2025 19:31		SY/MD	Ok,M

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL041725

Review By	Semsettin Yesilyurt	Review On	4/18/2025 4:23:02 PM
Supervise By	Maresh Dadoda	Supervise On	4/18/2025 10:46:12 PM
SubDirectory	VL041725	HP Acquire Method	TO15AIR.M
		HP Processing Method	VL041725AIR.M
STD. NAME	STD REF.#		
Tune/Reschk	AP2590		
Initial Calibration Stds	AP2598,AP2599,AP2600		
CCC	AP2598		
Internal Standard/PEM	AP2590		
ICV/I.BLK	AP2601		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	Q1726-01	IA-DUP-3-03312025	VL042366.D	17 Apr 2025 20:05	Need 20X	SY/MD	Dilution
20	Q1726-02	IA-B2-6-03312025	VL042367.D	17 Apr 2025 20:38	Need 20X	SY/MD	Dilution
21	Q1726-03	IA-B2-2-03312025	VL042368.D	17 Apr 2025 21:12	Need 20X	SY/MD	Dilution
22	Q1726-04	IA-B2-5-03312025	VL042369.D	17 Apr 2025 21:45	Need 20X	SY/MD	Dilution
23	Q1726-05	IA-B2-1-03312025	VL042370.D	17 Apr 2025 22:19	Need 20X	SY/MD	Dilution
24	Q1726-06	IA-B2-3-03312025	VL042371.D	17 Apr 2025 22:52	Need 20X	SY/MD	Dilution
25	Q1726-07	IA-B2-4-03312025	VL042372.D	17 Apr 2025 23:26	Need 20X	SY/MD	Dilution
26	Q1726-07DL	IA-B2-4-03312025DL	VL042373.D	17 Apr 2025 23:57	Need 40X	SY/MD	Dilution
27	Q1668-01DL	IA-B1-4-3252025DL	VL042374.D	18 Apr 2025 00:28		SY/MD	Ok,M
28	Q1668-03DL	IA-B1-3-3252025DL	VL042375.D	18 Apr 2025 00:59		SY/MD	Ok,M
29	Q1726-01DL	IA-DUP-3-03312025DL	VL042376.D	18 Apr 2025 01:30	Need 40X	SY/MD	Dilution
30	Q1726-02DL	IA-B2-6-03312025DL	VL042377.D	18 Apr 2025 02:01	Need 40X	SY/MD	Dilution
31	Q1726-03DL	IA-B2-2-03312025DL	VL042378.D	18 Apr 2025 02:32	Need 100X	SY/MD	Dilution
32	Q1726-04DL	IA-B2-5-03312025DL	VL042379.D	18 Apr 2025 03:03	Need 40X	SY/MD	Dilution
33	Q1726-05DL	IA-B2-1-03312025DL	VL042380.D	18 Apr 2025 03:34	Need 100X	SY/MD	Dilution
34	Q1726-06DL	IA-B2-3-03312025DL	VL042381.D	18 Apr 2025 04:05	Need 100X	SY/MD	Dilution

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL042925

Review By	Semsettin Yesilyurt	Review On	4/30/2025 2:23:53 PM
Supervise By	Maresh Dadoda	Supervise On	4/30/2025 2:28:33 PM
SubDirectory	VL042925	HP Acquire Method	TO15AIR.M
		HP Processing Method	VL041725AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2602
Initial Calibration Stds	AP2598,AP2599,AP2600
CCC	AP2598
Internal Standard/PEM	AP2602
ICV/I.BLK	AP2601
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL042435.D	29 Apr 2025 07:55		SY/MD	Ok
2	VSTDCCC010	VSTDCCC010	VL042436.D	29 Apr 2025 08:39		SY/MD	Ok,M
3	VL0429ABL01	VL0429ABL01	VL042437.D	29 Apr 2025 09:25		SY/MD	Ok
4	VL0429ABS01	VL0429ABS01	VL042438.D	29 Apr 2025 10:08		SY/MD	Ok,M
5	Q1880-04	EBR-P08-SC-SS01-202	VL042439.D	29 Apr 2025 10:59		SY/MD	Ok,M
6	Q1880-05DL	EBR-SC-SS-DUP01-202	VL042440.D	29 Apr 2025 11:30	Need Straight Run	SY/MD	Not Ok
7	Q1880-07DL	EBR-P16-SC-SS01-202	VL042441.D	29 Apr 2025 12:02		SY/MD	Ok,M
8	Q1880-11DL	EBR-P02-SC-SS01-202	VL042442.D	29 Apr 2025 12:33	Need Straight Run	SY/MD	Not Ok
9	Q1908-01	B-1	VL042443.D	29 Apr 2025 13:11		SY/MD	Ok,M
10	Q1908-02	B-2	VL042444.D	29 Apr 2025 13:45	rerun confirmation,4X	SY/MD	Not Ok
11	Q1908-03	B-3	VL042445.D	29 Apr 2025 14:19		SY/MD	Ok,M
12	Q1908-03DL	B-3DL	VL042446.D	29 Apr 2025 14:51	Not Required	SY/MD	Not Ok
13	Q1880-05	EBR-SC-SS-DUP01-202	VL042447.D	29 Apr 2025 15:24		SY/MD	Ok,M
14	Q1880-07	EBR-P16-SC-SS01-202	VL042448.D	29 Apr 2025 15:58	Need 10X	SY/MD	Dilution
15	Q1880-11	EBR-P02-SC-SS01-202	VL042449.D	29 Apr 2025 16:32		SY/MD	Ok,M
16	Q1880-01DL	EBR-P11-SC-SS01-202	VL042450.D	29 Apr 2025 17:04		SY/MD	Ok
17	Q1665-07DL	IA-DUP-1-3242025DL	VL042451.D	29 Apr 2025 17:37		SY/MD	Ok,M
18	Q1665-19DL	IA-B2-2-3242025DL	VL042452.D	29 Apr 2025 18:09		SY/MD	Ok,M

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL042925

Review By	Semsettin Yesilyurt	Review On	4/30/2025 2:23:53 PM		
Supervise By	Mahesh Dadoda	Supervise On	4/30/2025 2:28:33 PM		
SubDirectory	VL042925	HP Acquire Method	TO15AIR.M	HP Processing Method	VL041725AIR.M
STD. NAME	STD REF.#				
Tune/Reschk	AP2602				
Initial Calibration Stds	AP2598,AP2599,AP2600				
CCC	AP2598				
Internal Standard/PEM	AP2602				
ICV/I.BLK	AP2601				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

19	Q1665-21DL	IA-B2-1-3242025DL	VL042453.D	29 Apr 2025 18:42		SY/MD	Ok,M
20	Q1908-01DUP	B-1DUP	VL042454.D	29 Apr 2025 19:57		SY/MD	Ok,M
21	Q1908-02DL	B-2DL	VL042455.D	29 Apr 2025 20:30	not required ,not match	SY/MD	Not Ok
22	Q1908-02	B-2	VL042456.D	29 Apr 2025 21:58		SY/MD	Ok,M

M : Manual Integration

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042349.D
 Acq On : 17 Apr 2025 09:44
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Quant Time: Apr 18 01:25:08 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 01:24:29 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	125455	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	366544	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	338126	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	281013	10.114	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.100%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	207962	9.382	ppbv	100
3) Chlorodifluoromethane	1.476	51	197334	9.350	ppbv	100
4) Chloromethane	1.531	50	81843	9.330	ppbv	100
5) Vinyl Chloride	1.580	62	80068	8.385	ppbv	100
6) Bromomethane	1.667	94	38128	9.219	ppbv	100
7) Chloroethane	1.703	64	31705	9.182	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	179696	9.442	ppbv	100
9) Propene	1.483	41	86530	9.002	ppbv	100
10) Heptane	4.978	43	236341	9.138	ppbv	100
11) Trichlorofluoromethane	1.877	101	196596	9.327	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.136	101	160682	9.323	ppbv	100
13) Ethanol	1.719	45	4439	5.651	ppbv	100
14) Bromoethene	1.780	108	61493	9.466	ppbv	100
15) Acetone	1.835	43	158490	7.717	ppbv	100
16) 1,3-Butadiene	1.609	39	81688	8.470	ppbv	100
17) tert-Butyl alcohol	2.039	59	226280	8.891	ppbv	100
18) 1,1-Dichloroethene	2.033	96	73186	8.833	ppbv	100
19) Isopropyl Alcohol	1.884	45	103029	9.031	ppbv	100
20) Methylene Chloride	2.062	84	62414	7.760	ppbv	100
21) Allyl Chloride	2.094	41	122115	8.611	ppbv	100
22) trans-1,2-Dichloroethene	2.340	96	83278	9.084	ppbv	100
23) Vinyl Acetate	2.460	43	69649	8.378	ppbv	100
24) 1,1-Dichloroethane	2.408	63	161102	9.251	ppbv	100
25) Ethyl Acetate	2.836	43	461315	9.110	ppbv	100
26) Hexane	2.826	57	178691	8.720	ppbv	100
27) Carbon Disulfide	2.149	76	209297	9.539	ppbv	100
28) Methyl tert-Butyl Ether	2.441	73	117924	8.783	ppbv	100
29) Chloroform	2.848	83	269088	9.290	ppbv	100
30) Cyclohexane	3.855	84	157035	9.517	ppbv	100
31) cis-1,2-Dichloroethene	2.719	61	183082	9.397	ppbv	100
32) 1,1,1-Trichloroethane	3.366	97	285336	9.187	ppbv	100
34) 2-Butanone	2.557	43	251704	8.683	ppbv	100
35) Carbon Tetrachloride	3.761	117	282402	8.513	ppbv	100
36) Benzene	3.654	78	367355	9.292	ppbv	100
37) 1,2-Dichloroethane	3.217	62	216999	9.145	ppbv	100
38) Trichloroethene	4.548	130	144767	8.352	ppbv	100
39) 1,2-Dichloropropane	4.311	63	135605	9.197	ppbv	100
40) 1,4-Dioxane	4.580	88	66662	8.348	ppbv #	100
41) Tetrahydrofuran	3.052	42	149905	8.950	ppbv	100
42) Bromodichloromethane	4.489	83	312268	9.456	ppbv	100
43) Methyl Methacrylate	4.881	69	157501	8.876	ppbv	100
44) 2,2,4-Trimethylpentane	4.642	57	626085	9.157	ppbv	100
45) t-1,3-Dichloropropene	6.415	75	168223	9.233	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042349.D
 Acq On : 17 Apr 2025 09:44
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

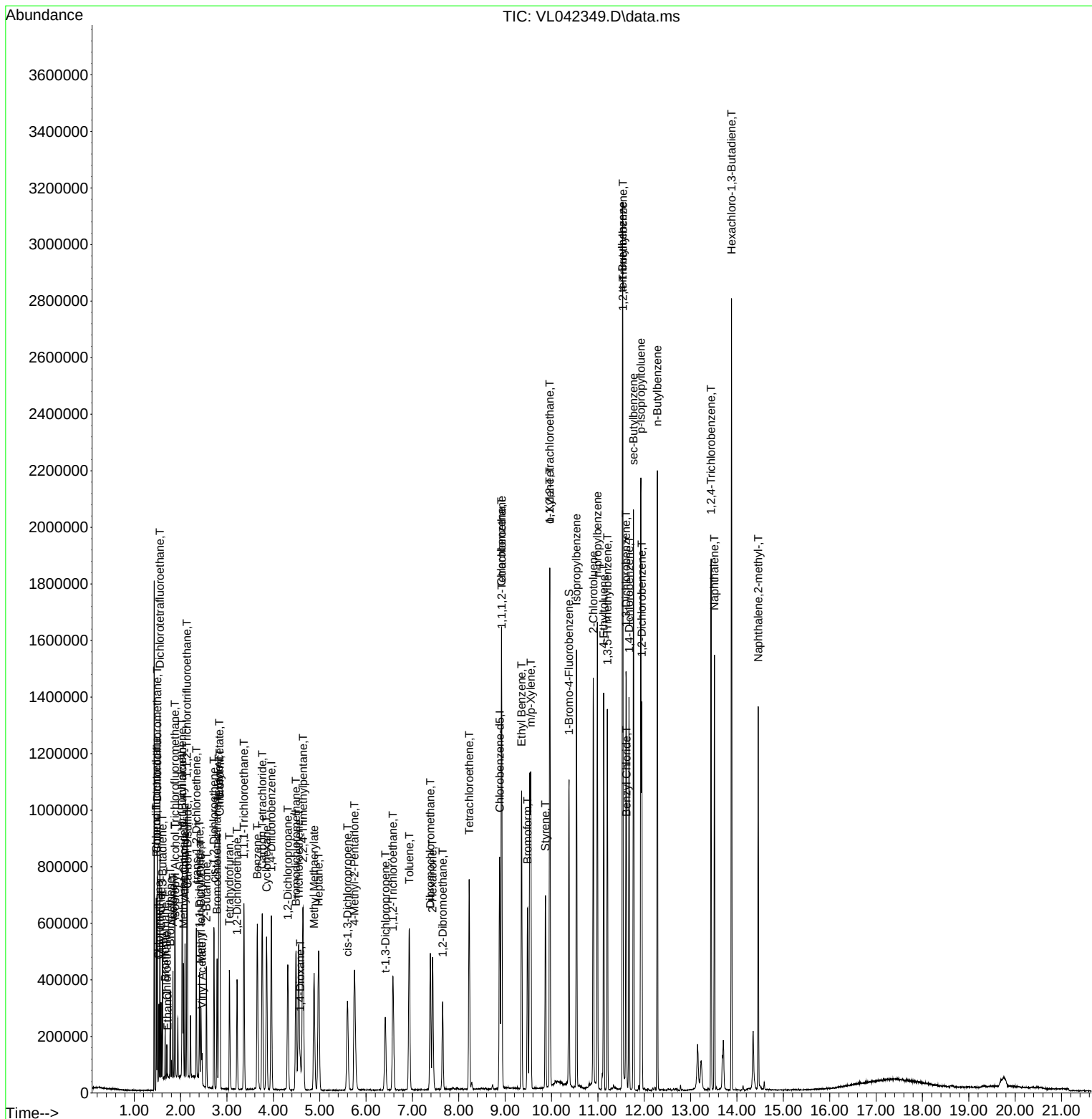
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

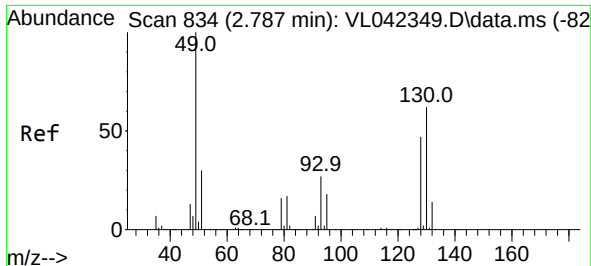
Quant Time: Apr 18 01:25:08 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 01:24:29 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.600	75	208811	9.377	ppbv	100
47) 1,1,2-Trichloroethane	6.580	97	137898	9.181	ppbv	100
48) Dibromochloromethane	7.386	129	248954	9.388	ppbv	100
49) Bromoform	9.480	173	225706	9.734	ppbv	100
50) 4-Methyl-2-Pentanone	5.752	43	396548	8.215	ppbv	100
51) 2-Hexanone	7.435	43	327165	7.511	ppbv	100
52) Tetrachloroethene	8.225	164	130720	8.553	ppbv	100
53) Toluene	6.933	91	437258	9.216	ppbv	100
54) 1,2-Dibromoethane	7.652	107	197665	9.235	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.927	131	186041	9.091	ppbv	100
57) Chlorobenzene	8.920	112	323084	9.187	ppbv	100
58) Ethyl Benzene	9.354	91	619581	9.248	ppbv	100
59) m/p-Xylene	9.552	91	449222	8.299	ppbv #	19
60) o-Xylene	9.963	91	487616	8.972	ppbv	100
61) Styrene	9.869	104	245487	9.464	ppbv	100
62) Isopropylbenzene	10.539	105	733788	9.197	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.963	83	295041	8.355	ppbv	100
64) n-propylbenzene	10.989	120	183390	9.144	ppbv	100
65) tert-Butylbenzene	11.532	119	644953	8.795	ppbv	100
66) Benzyl Chloride	11.617	91	83269	10.333	ppbv	100
67) sec-Butylbenzene	11.769	105	900074	8.824	ppbv	100
69) p-Isopropyltoluene	11.927	119	778987	8.790	ppbv	100
70) n-Butylbenzene	12.283	91	801364	8.682	ppbv	100
71) 2-Chlorotoluene	10.901	91	573039	9.157	ppbv	100
72) 4-Ethyltoluene	11.125	105	596757	8.982	ppbv	100
73) 1,3,5-Trimethylbenzene	11.205	105	512855	8.743	ppbv	100
74) 1,2,4-Trimethylbenzene	11.539	105	565064	8.248	ppbv	100
75) 1,3-Dichlorobenzene	11.607	146	320380	8.997	ppbv	100
76) 1,4-Dichlorobenzene	11.672	146	319089	8.915	ppbv	100
77) 1,2-Dichlorobenzene	11.947	146	305822	8.832	ppbv	100
78) Hexachloro-1,3-Butadiene	13.882	225	291833	8.346	ppbv	100
79) Naphthalene	13.513	128	677578	8.271	ppbv	100
80) Naphthalene,2-methyl-	14.458	142	376995	8.074	ppbv	100
81) 1,2,4-Trichlorobenzene	13.442	180	306119	8.702	ppbv	100

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

Quant Time: Apr 18 01:25:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

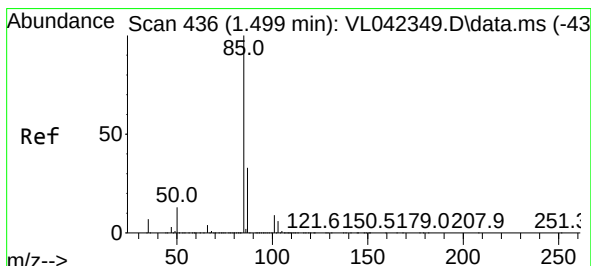
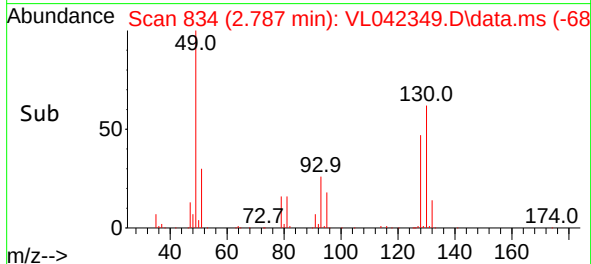
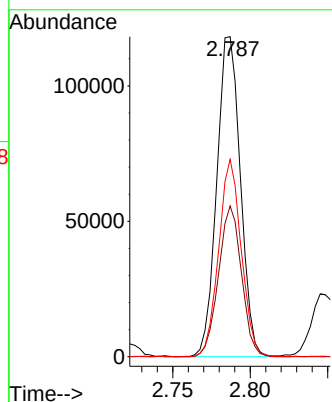
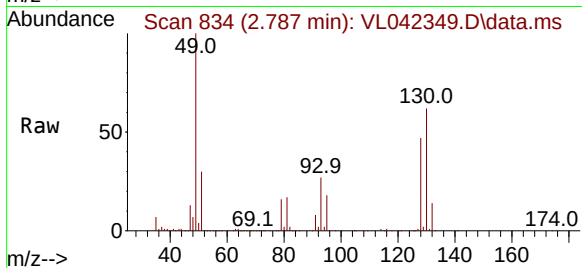




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 834
Delta R.T. -0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

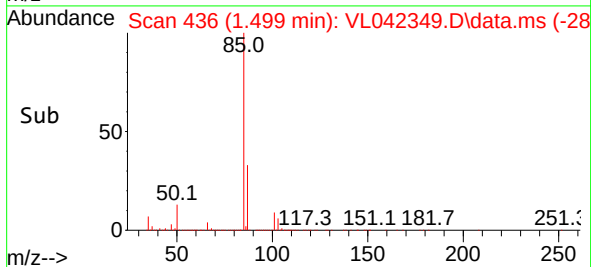
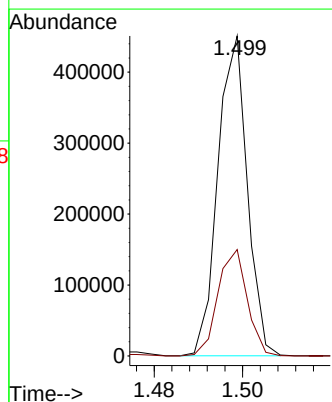
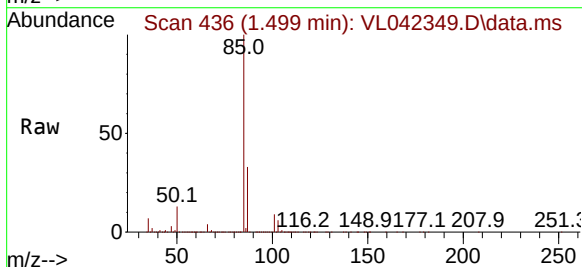
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

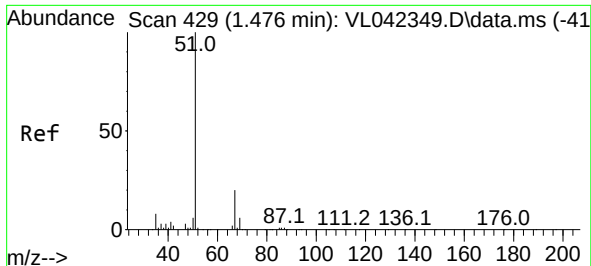
Tgt Ion: 49 Resp: 125455
Ion Ratio Lower Upper
49 100
128 45.6 22.8 68.4
130 58.7 29.3 88.0



#2
Dichlorodifluoromethane
Concen: 9.382 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 85 Resp: 207962
Ion Ratio Lower Upper
85 100
87 33.2 26.6 39.8

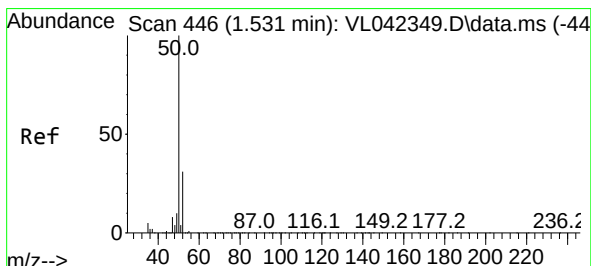
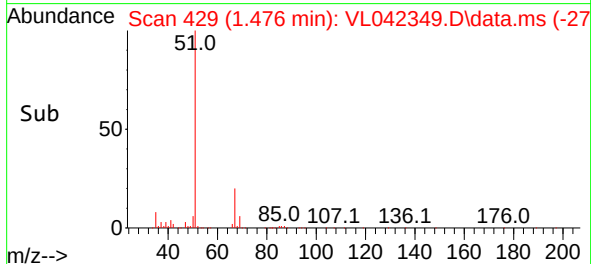
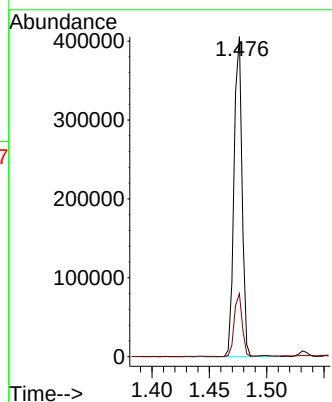
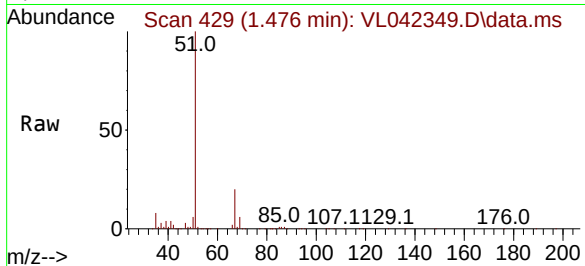




#3
Chlorodifluoromethane
Concen: 9.350 ppbv
RT: 1.476 min Scan# 429
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

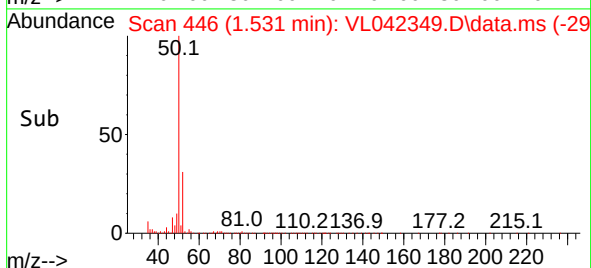
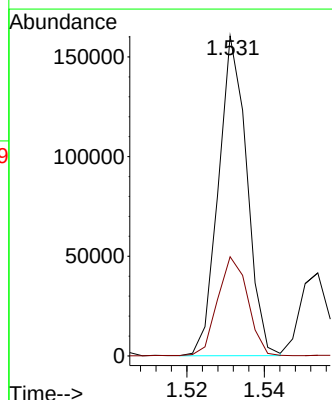
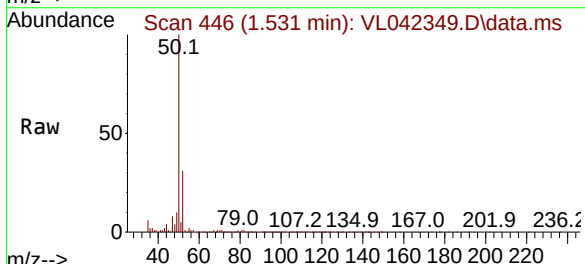
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

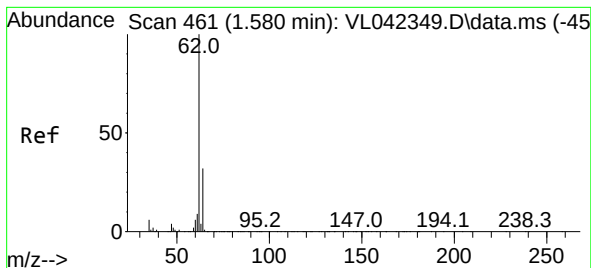
Tgt Ion: 51 Resp: 197334
Ion Ratio Lower Upper
51 100
67 20.3 16.2 24.4



#4
Chloromethane
Concen: 9.330 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 50 Resp: 81843
Ion Ratio Lower Upper
50 100
52 30.9 24.7 37.1





#5

Vinyl Chloride

Concen: 8.385 ppbv

RT: 1.580 min Scan# 461

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

Instrument :

MSVOA_L

ClientSampleId :

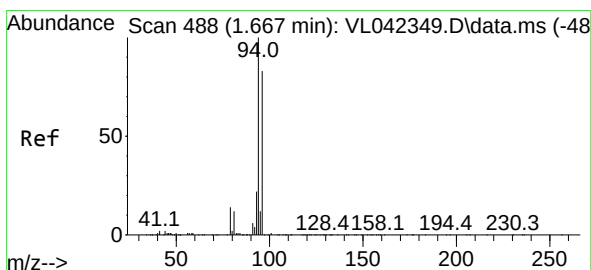
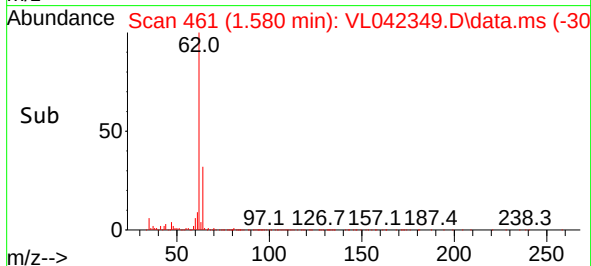
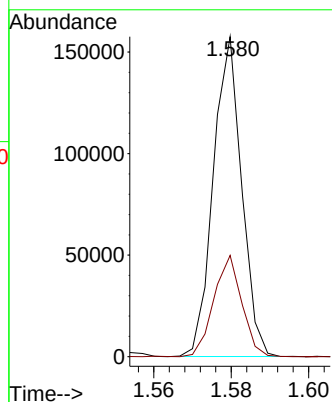
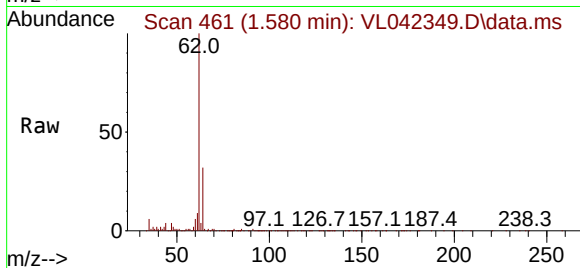
VSTDICCC010

Tgt Ion: 62 Resp: 80068

Ion Ratio Lower Upper

62 100

64 31.7 25.4 38.0



#6

Bromomethane

Concen: 9.219 ppbv

RT: 1.667 min Scan# 488

Delta R.T. 0.000 min

Lab File: VL042349.D

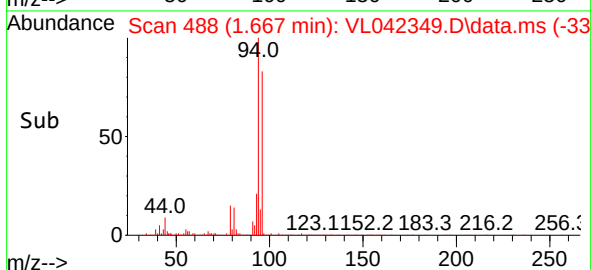
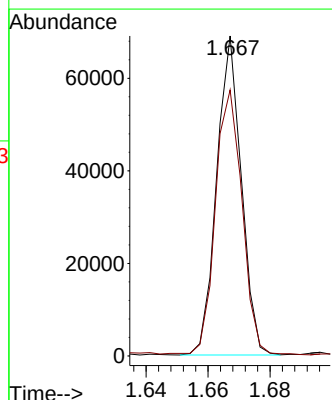
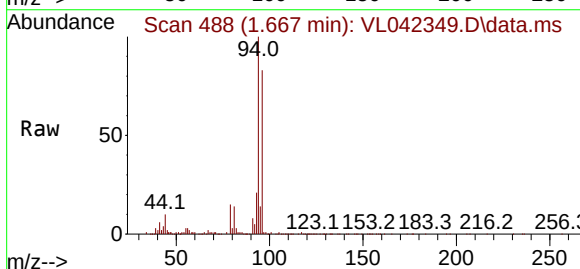
Acq: 17 Apr 2025 09:44

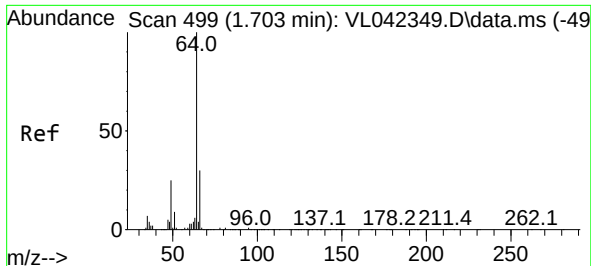
Tgt Ion: 94 Resp: 38128

Ion Ratio Lower Upper

94 100

96 82.7 66.2 99.2

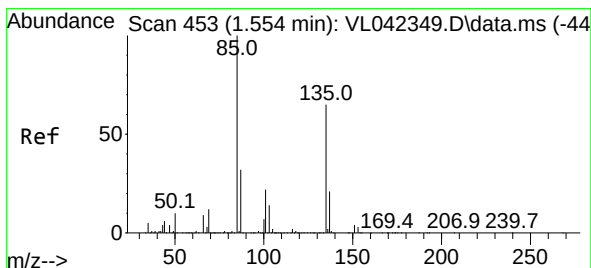
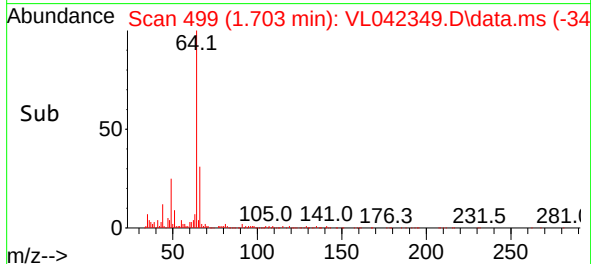
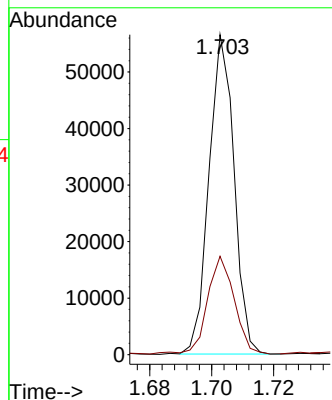
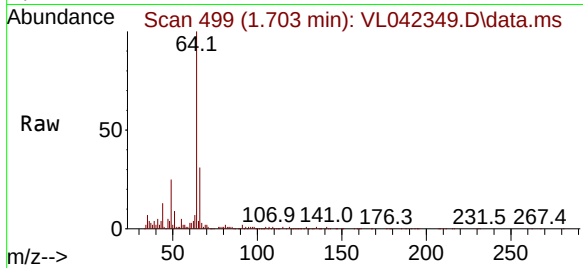




#7
Chloroethane
Concen: 9.182 ppbv
RT: 1.703 min Scan# 499
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

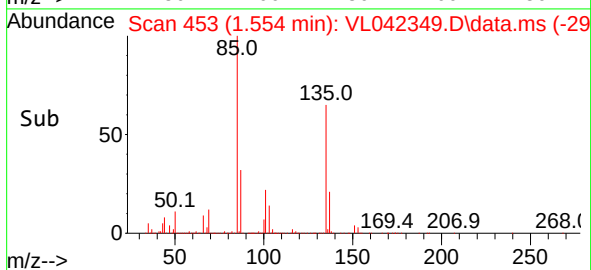
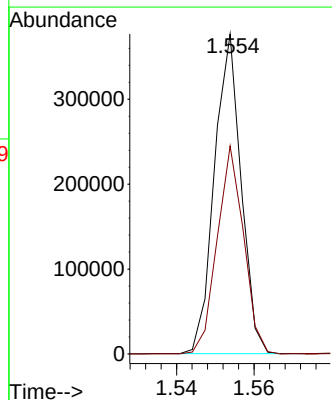
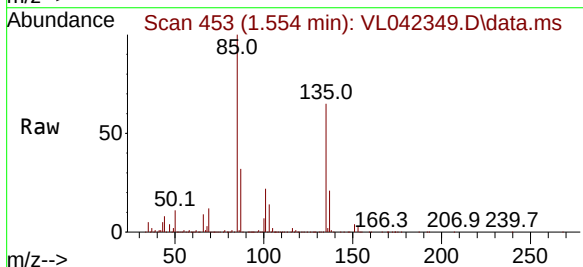
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

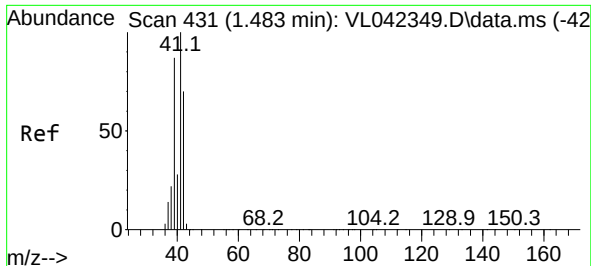
Tgt Ion: 64 Resp: 31705
Ion Ratio Lower Upper
64 100
66 30.8 24.6 37.0



#8
Dichlorotetrafluoroethane
Concen: 9.442 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 85 Resp: 179696
Ion Ratio Lower Upper
85 100
135 65.2 52.2 78.2





#9

Propene

Concen: 9.002 ppbv

RT: 1.483 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

Instrument :

MSVOA_L

ClientSampleId :

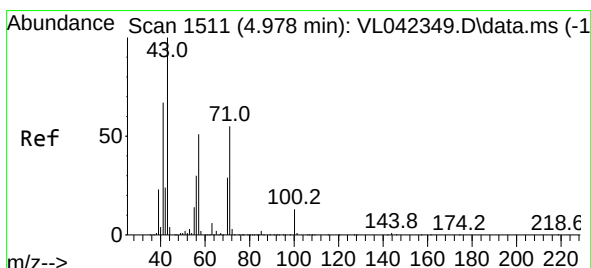
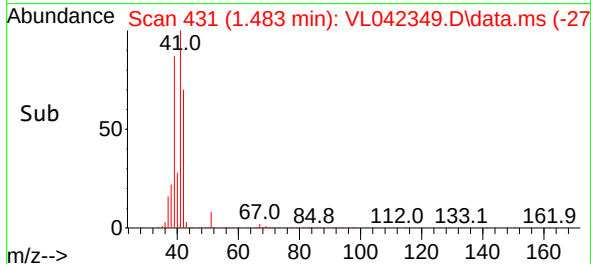
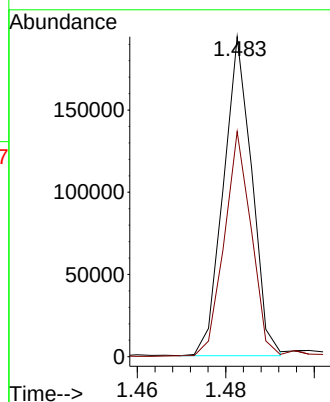
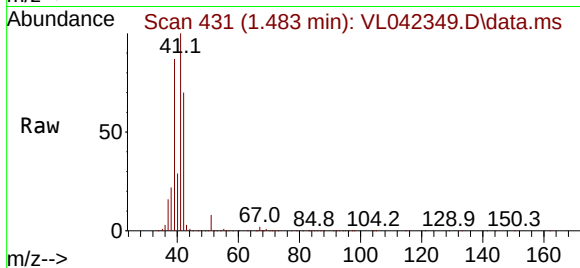
VSTDICCC010

Tgt Ion: 41 Resp: 86530

Ion Ratio Lower Upper

41 100

42 70.3 56.2 84.4



#10

Heptane

Concen: 9.138 ppbv

RT: 4.978 min Scan# 1511

Delta R.T. 0.000 min

Lab File: VL042349.D

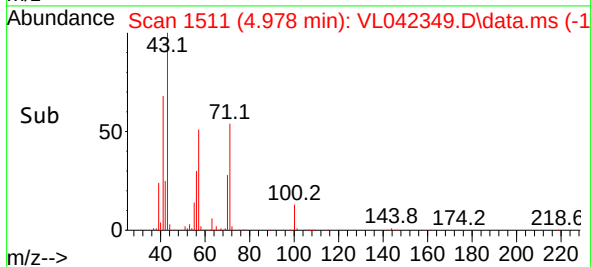
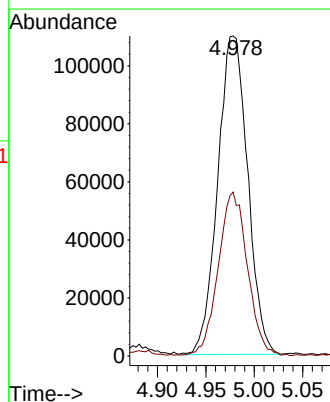
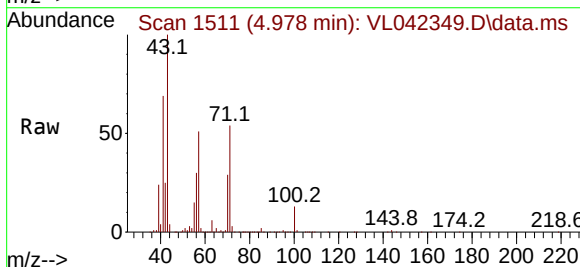
Acq: 17 Apr 2025 09:44

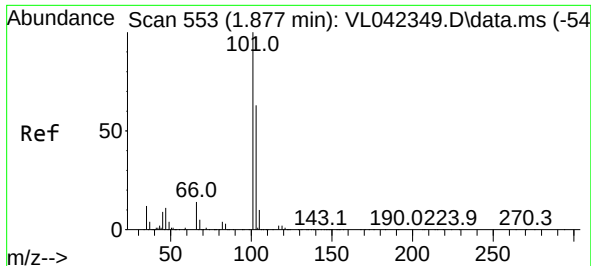
Tgt Ion: 43 Resp: 236341

Ion Ratio Lower Upper

43 100

57 49.9 39.9 59.9

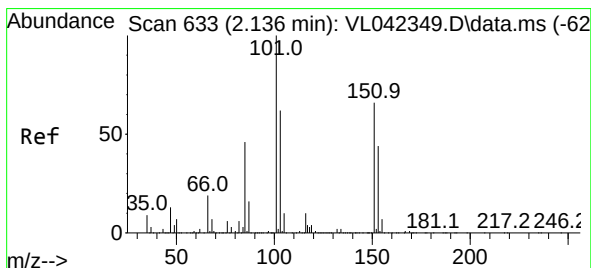
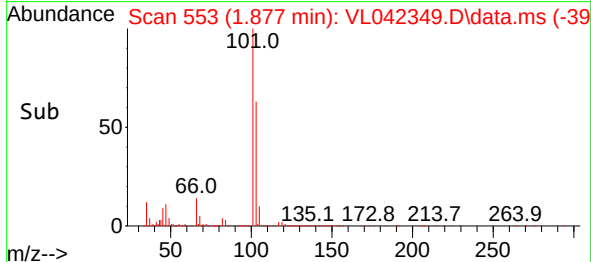
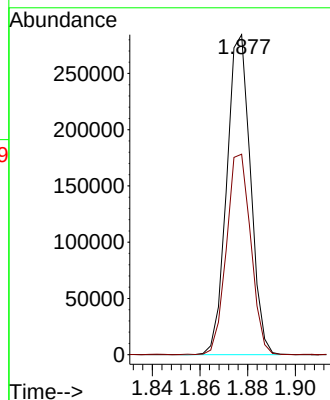
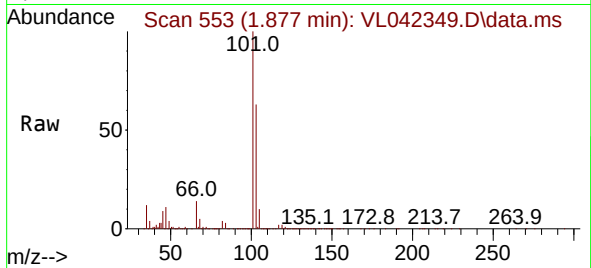




#11
 Trichlorofluoromethane
 Concen: 9.327 ppbv
 RT: 1.877 min Scan# 553
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44

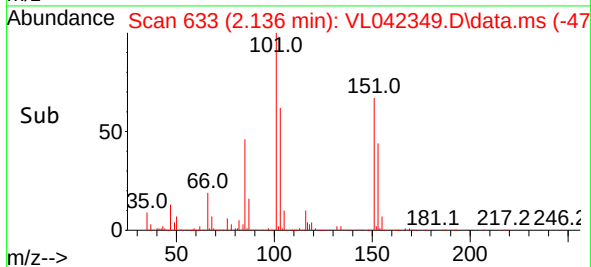
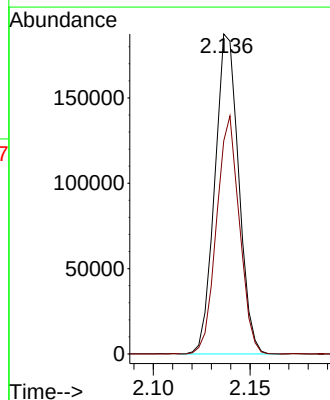
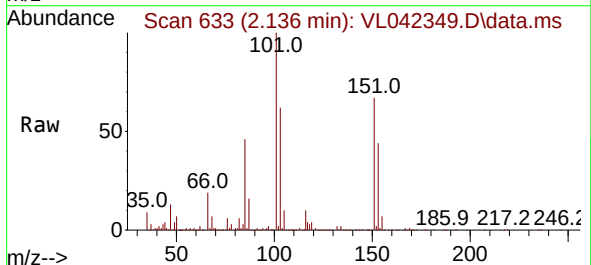
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

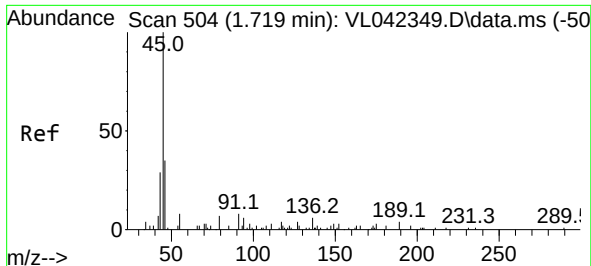
Tgt Ion:101 Resp: 196596
 Ion Ratio Lower Upper
 101 100
 103 62.6 50.1 75.1



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.323 ppbv
 RT: 2.136 min Scan# 633
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44

Tgt Ion:101 Resp: 160682
 Ion Ratio Lower Upper
 101 100
 151 71.3 57.0 85.6

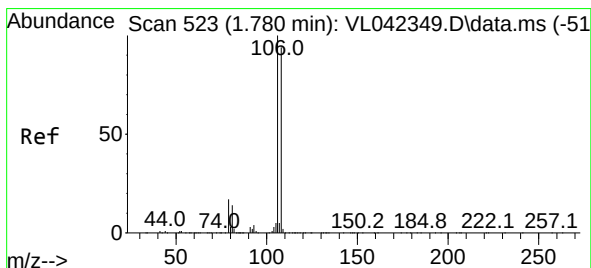
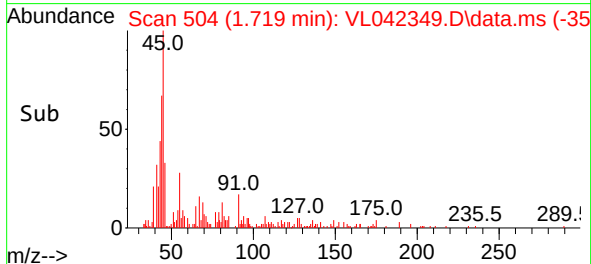
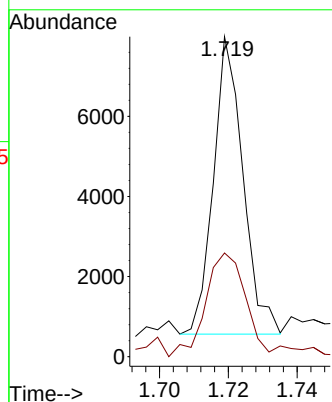
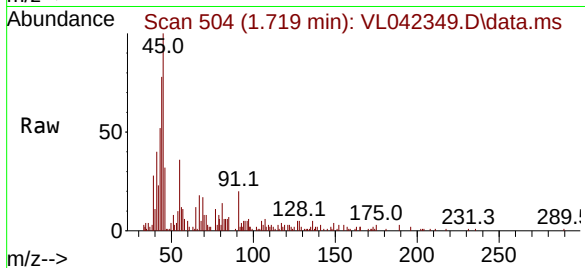




#13
Ethanol
Concen: 5.651 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

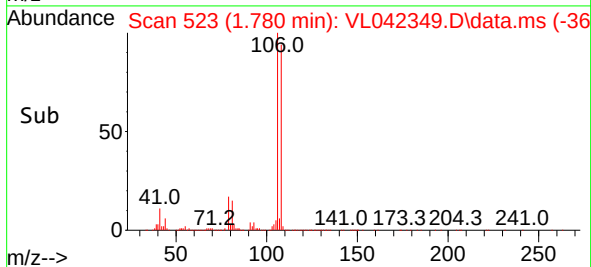
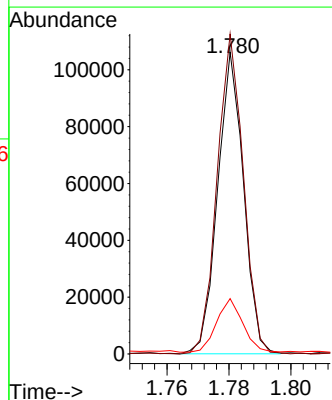
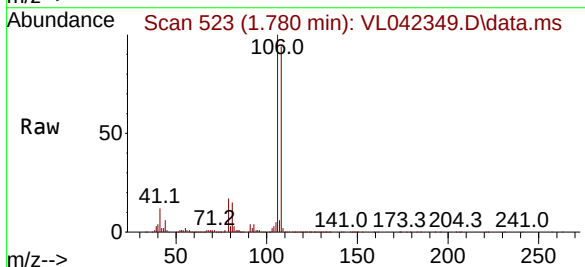
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

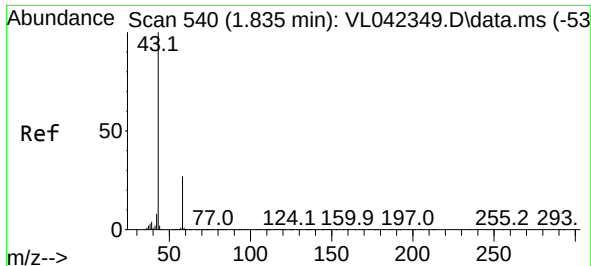
Tgt Ion: 45 Resp: 4439
Ion Ratio Lower Upper
45 100
46 54.8 21.9 87.7



#14
Bromoethene
Concen: 9.466 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 108 Resp: 61493
Ion Ratio Lower Upper
108 100
106 107.4 85.9 128.9
79 17.4 13.9 20.9

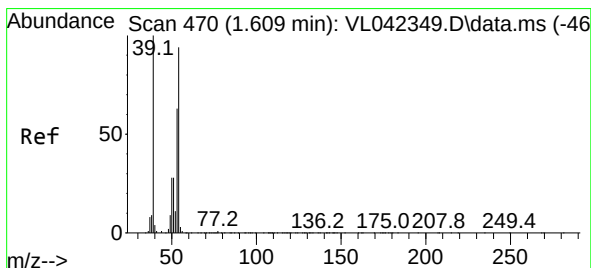
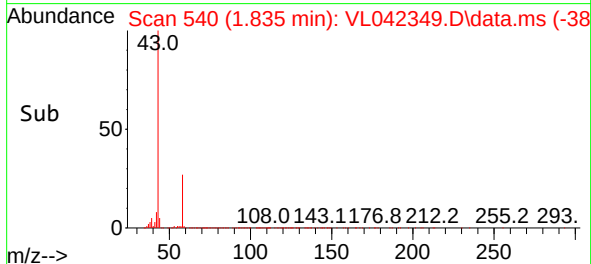
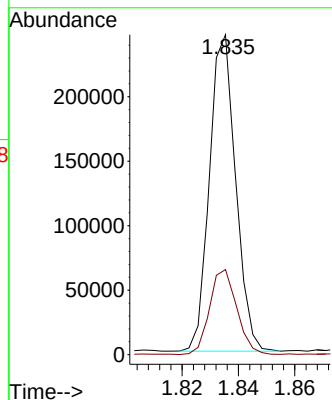
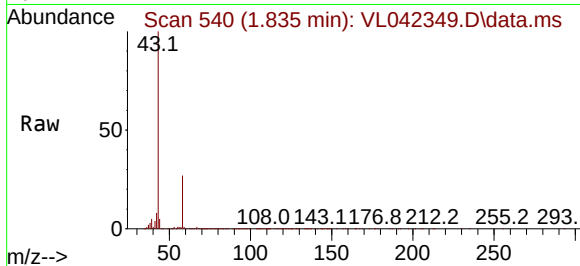




#15
Acetone
Concen: 7.717 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

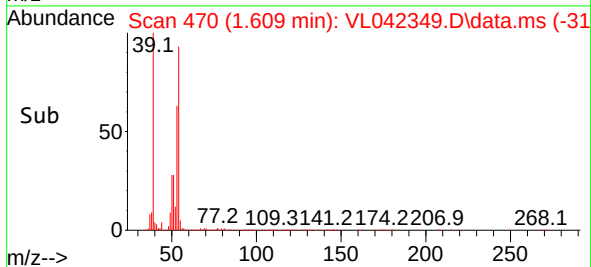
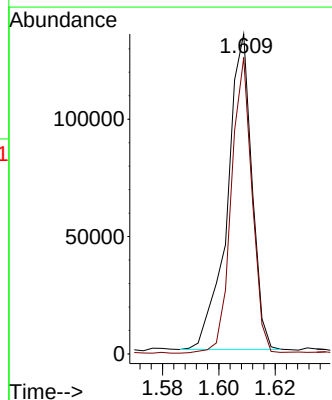
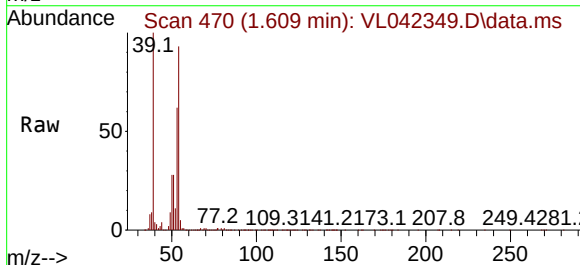
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

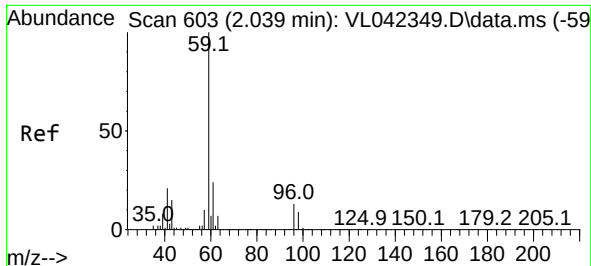
Tgt Ion: 43 Resp: 158490
Ion Ratio Lower Upper
43 100
58 28.0 22.4 33.6



#16
1,3-Butadiene
Concen: 8.470 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 39 Resp: 81688
Ion Ratio Lower Upper
39 100
54 81.1 64.9 97.3





#17

tert-Butyl alcohol

Concen: 8.891 ppbv

RT: 2.039 min Scan# 603

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

Instrument :

MSVOA_1

ClientSampleId :

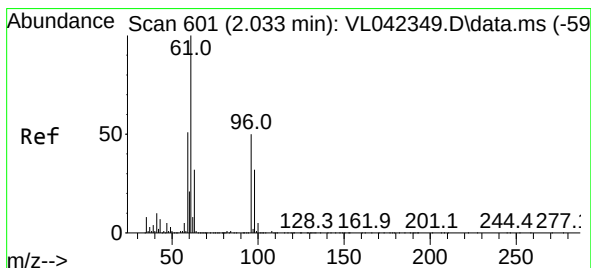
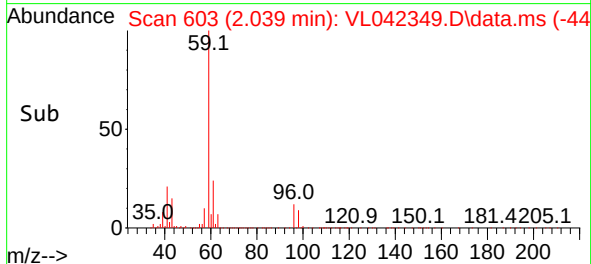
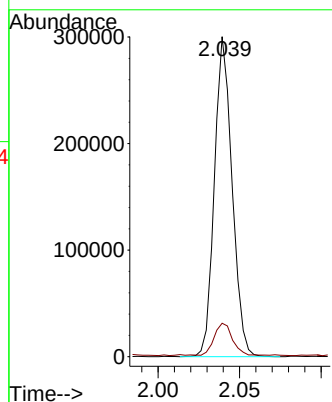
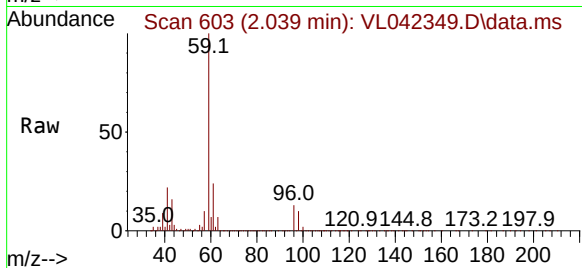
VSTDICCC010

Tgt Ion: 59 Resp: 226280

Ion Ratio Lower Upper

59 100

57 10.9 8.7 13.1



#18

1,1-Dichloroethene

Concen: 8.833 ppbv

RT: 2.033 min Scan# 601

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

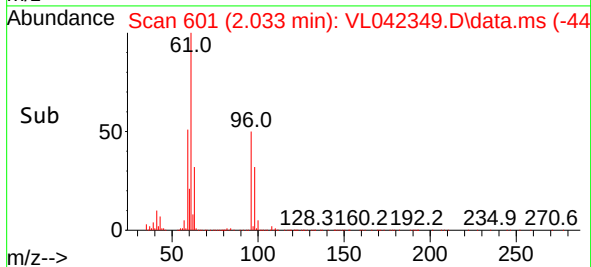
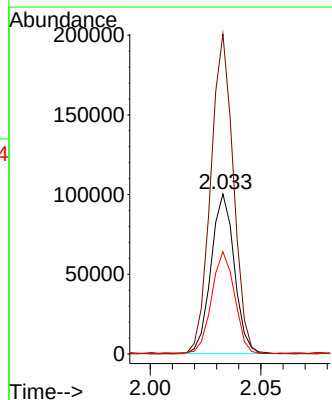
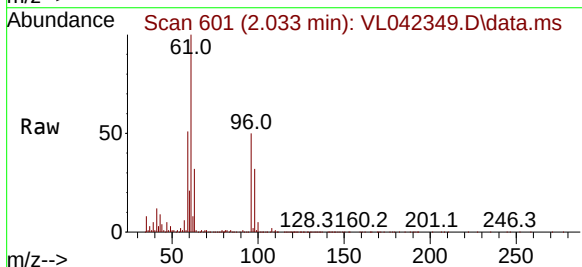
Tgt Ion: 96 Resp: 73186

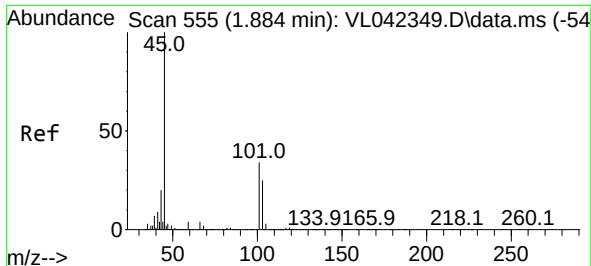
Ion Ratio Lower Upper

96 100

61 200.2 160.2 240.2

98 63.7 51.0 76.4

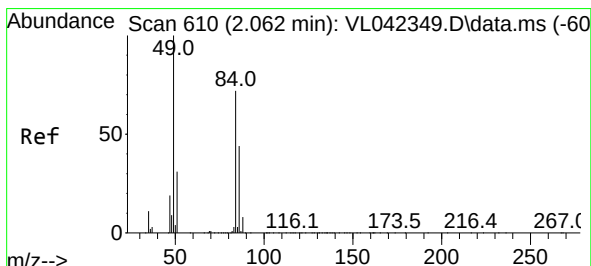
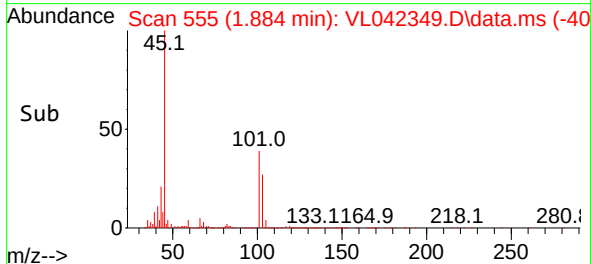
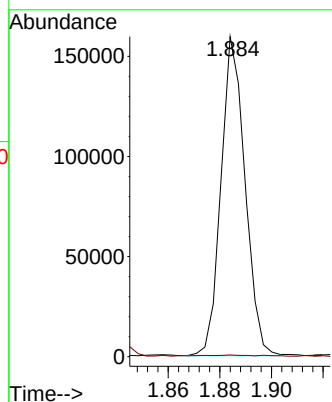
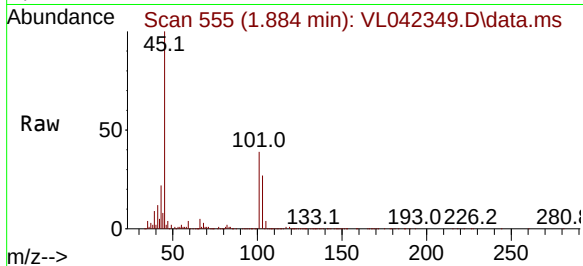




#19
Isopropyl Alcohol
Concen: 9.031 ppbv
RT: 1.884 min Scan# 511
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

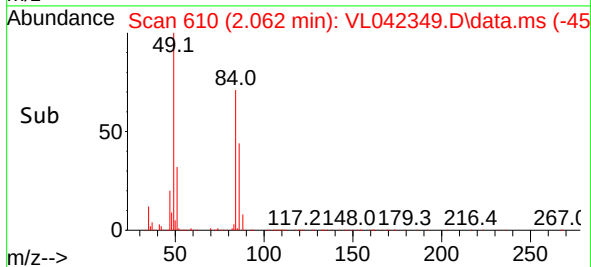
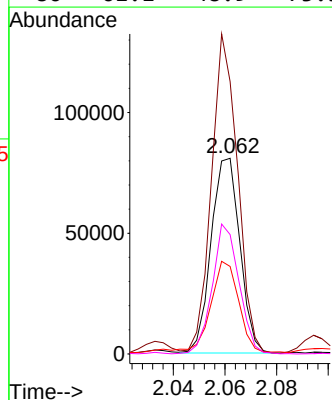
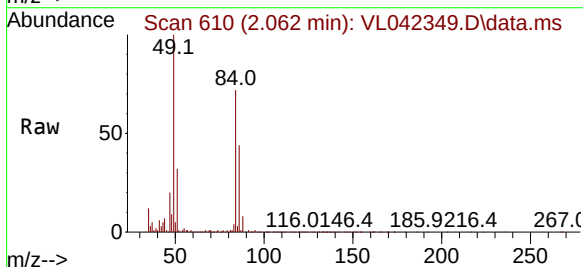
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

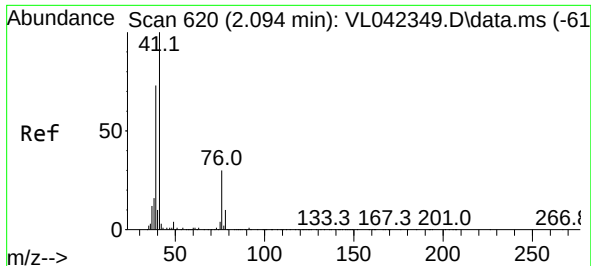
Tgt Ion: 45 Resp: 103029
Ion Ratio Lower Upper
45 100
58 43.1 34.5 51.7



#20
Methylene Chloride
Concen: 7.760 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 84 Resp: 62414
Ion Ratio Lower Upper
84 100
49 139.5 111.6 167.4
51 43.9 35.1 52.7
86 61.1 48.9 73.3

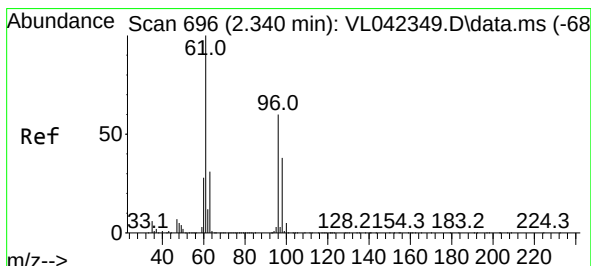
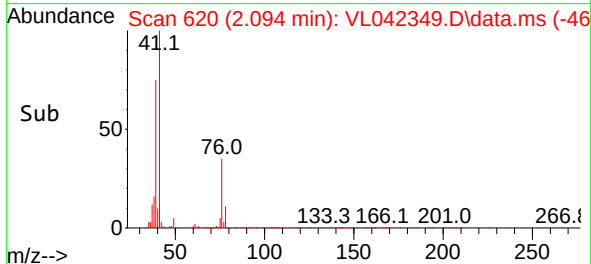
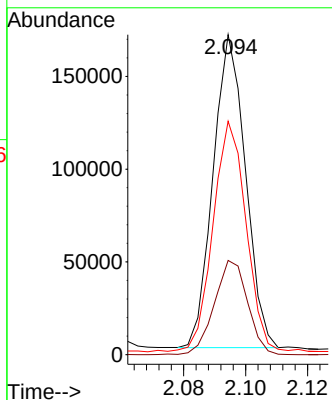
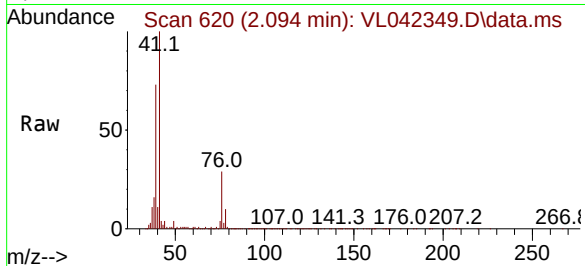




#21
 Allyl Chloride
 Concen: 8.611 ppbv
 RT: 2.094 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44

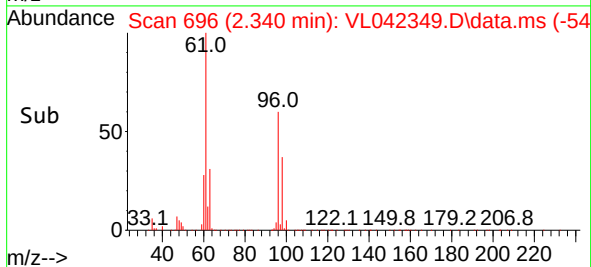
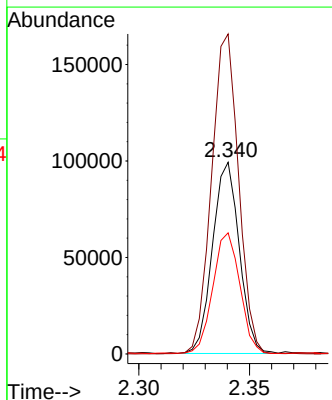
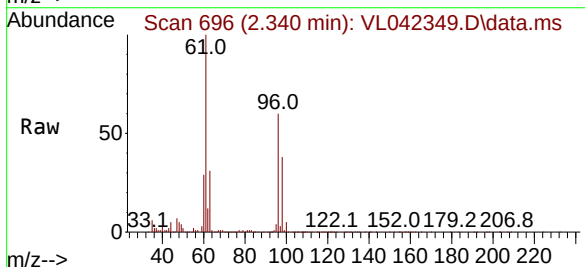
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

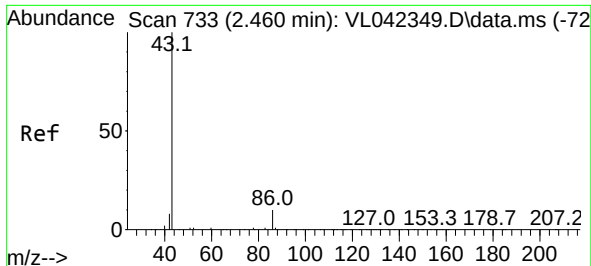
Tgt Ion: 41 Resp: 122115
 Ion Ratio Lower Upper
 41 100
 76 31.0 24.8 37.2
 39 75.7 60.6 90.8



#22
 trans-1,2-Dichloroethene
 Concen: 9.084 ppbv
 RT: 2.340 min Scan# 696
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44

Tgt Ion: 96 Resp: 83278
 Ion Ratio Lower Upper
 96 100
 61 167.1 133.7 200.5
 98 62.9 50.3 75.5

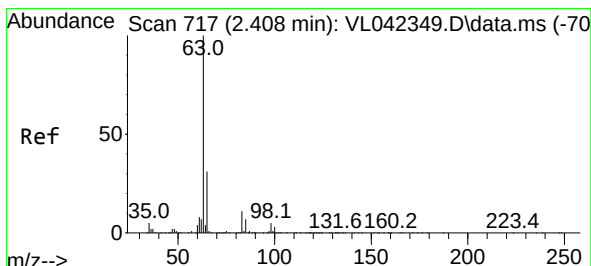
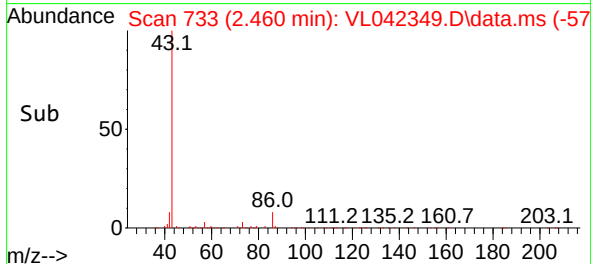
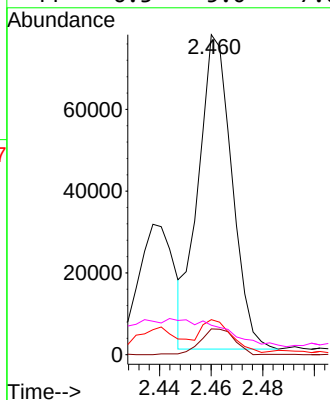
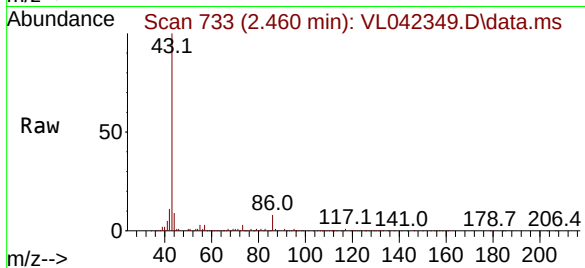




#23
 Vinyl Acetate
 Concen: 8.378 ppbv
 RT: 2.460 min Scan# 717
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44

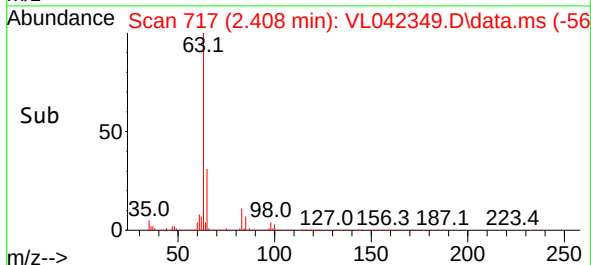
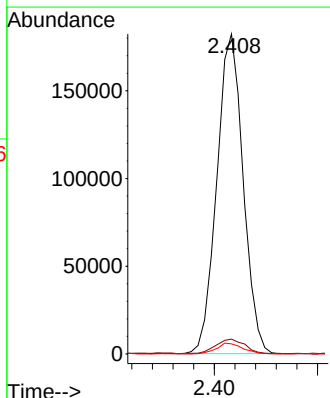
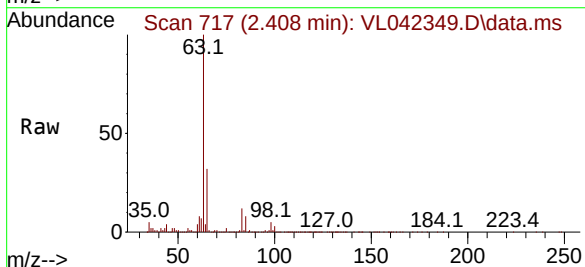
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

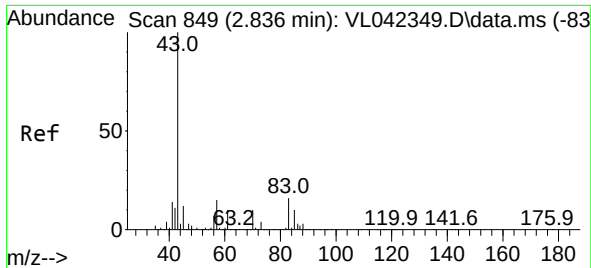
Tgt Ion:	43	Resp:	69649
Ion	Ratio	Lower	Upper
43	100		
86	8.1	6.5	9.7
42	9.8	7.8	11.8
44	6.3	5.0	7.6



#24
 1,1-Dichloroethane
 Concen: 9.251 ppbv
 RT: 2.408 min Scan# 717
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44

Tgt Ion:	63	Resp:	161102
Ion	Ratio	Lower	Upper
63	100		
98	4.5	2.3	6.8
100	3.2	1.6	4.8



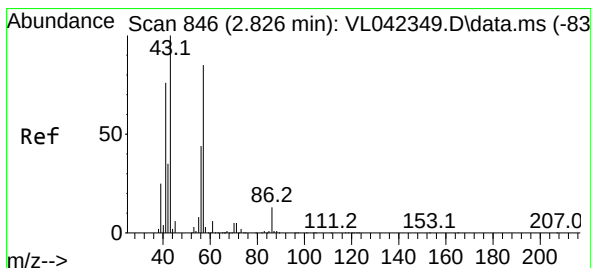
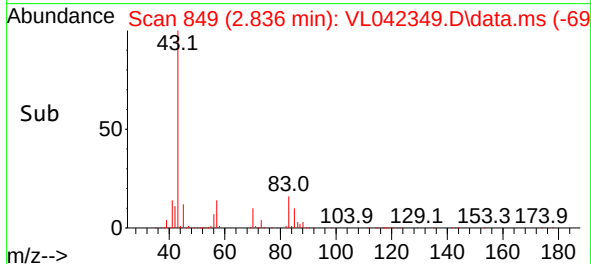
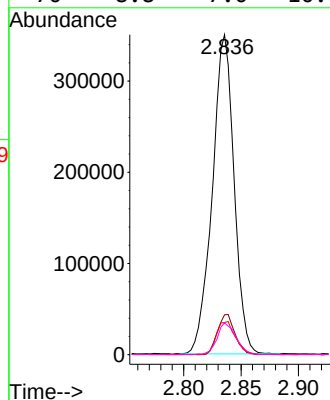
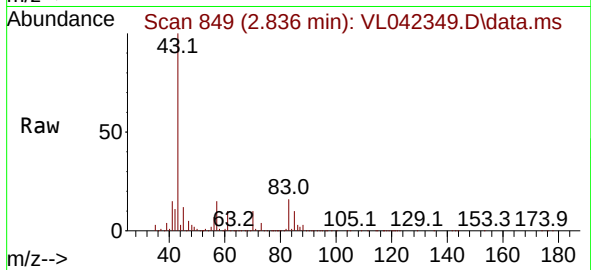


#25
Ethyl Acetate
Concen: 9.110 ppbv
RT: 2.836 min Scan# 849
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

Tgt Ion: 43 Resp: 461315

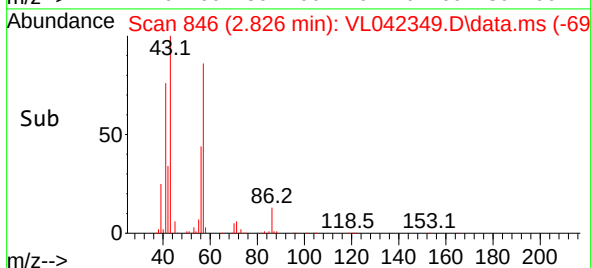
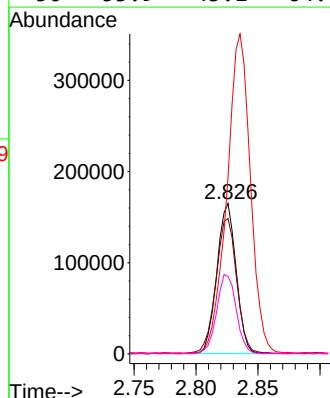
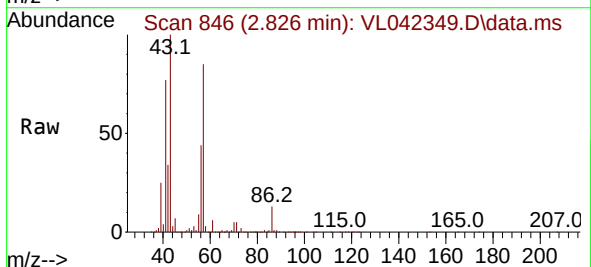
Ion	Ratio	Lower	Upper
43	100		
45	10.4	8.3	12.5
61	9.1	7.3	10.9
70	8.8	7.0	10.6

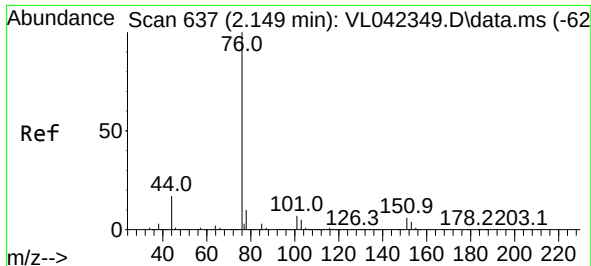


#26
Hexane
Concen: 8.720 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 57 Resp: 178691

Ion	Ratio	Lower	Upper
57	100		
41	97.4	77.9	116.9
43	260.5	208.4	312.6
56	53.9	43.1	64.7





#27

Carbon Disulfide

Concen: 9.539 ppbv

RT: 2.149 min Scan# 61

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

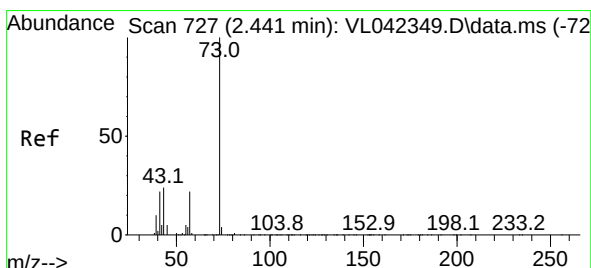
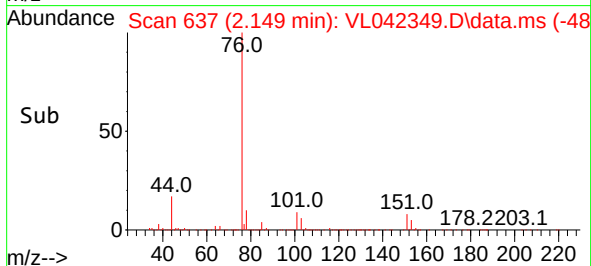
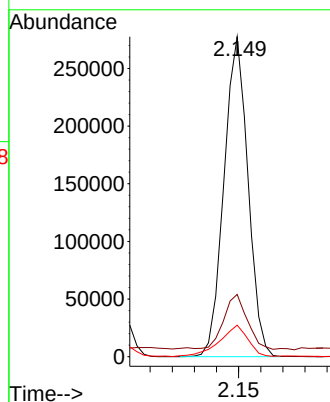
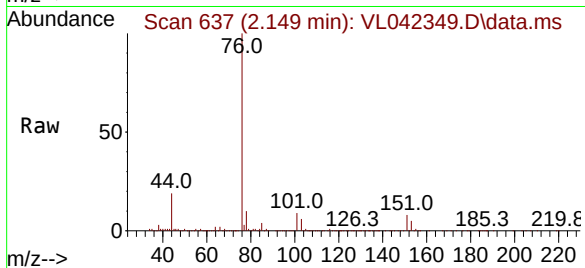
Tgt Ion: 76 Resp: 209297

Ion Ratio Lower Upper

76 100

44 19.4 15.5 23.3

78 11.6 9.3 13.9



#28

Methyl tert-Butyl Ether

Concen: 8.783 ppbv

RT: 2.441 min Scan# 727

Delta R.T. 0.000 min

Lab File: VL042349.D

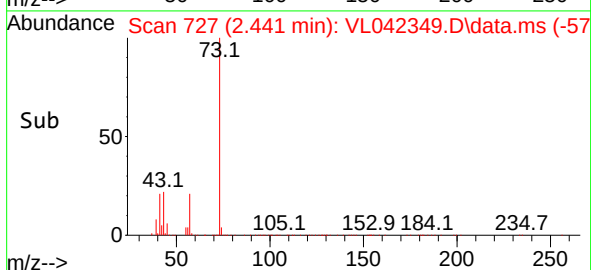
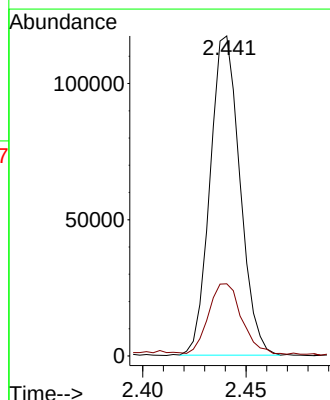
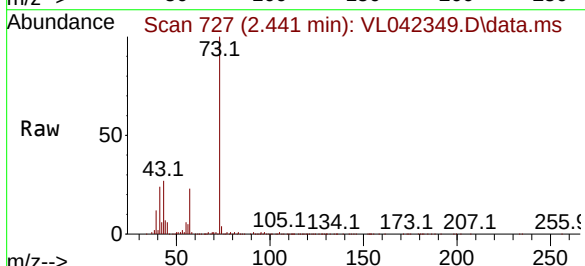
Acq: 17 Apr 2025 09:44

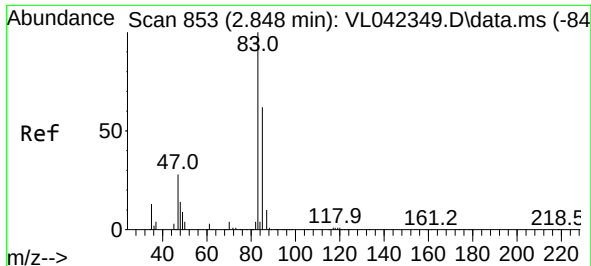
Tgt Ion: 73 Resp: 117924

Ion Ratio Lower Upper

73 100

57 26.6 21.3 31.9





#29

Chloroform

Concen: 9.290 ppbv

RT: 2.848 min Scan# 853

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

Instrument :

MSVOA_L

ClientSampleId :

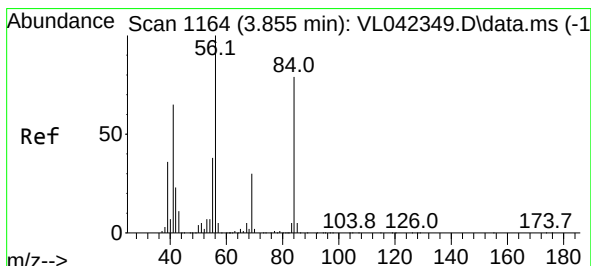
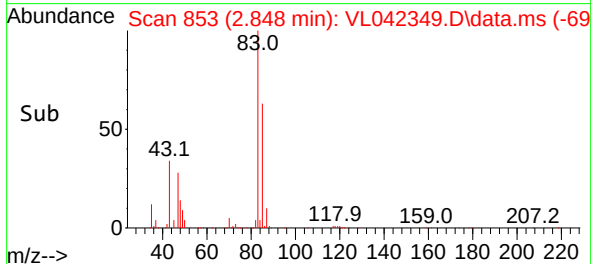
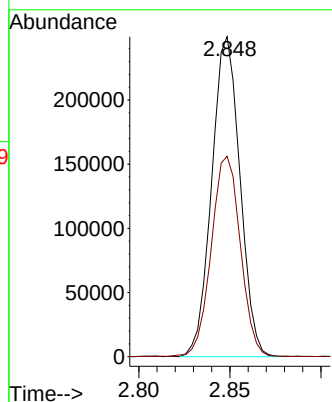
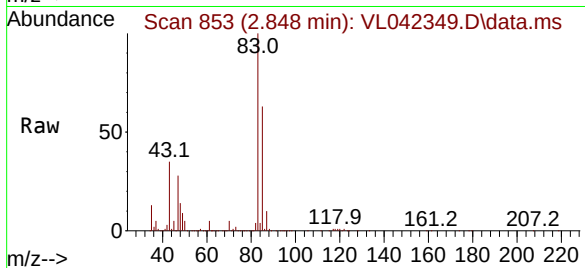
VSTDICCC010

Tgt Ion: 83 Resp: 269088

Ion Ratio Lower Upper

83 100

85 62.5 50.0 75.0



#30

Cyclohexane

Concen: 9.517 ppbv

RT: 3.855 min Scan# 1164

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

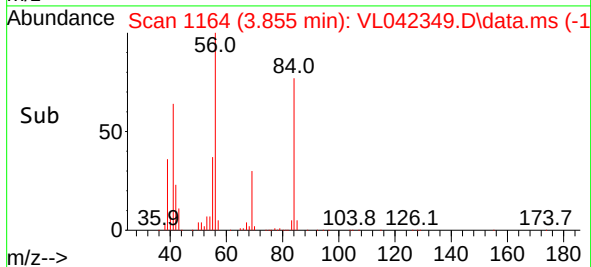
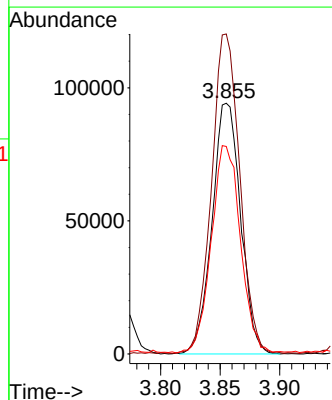
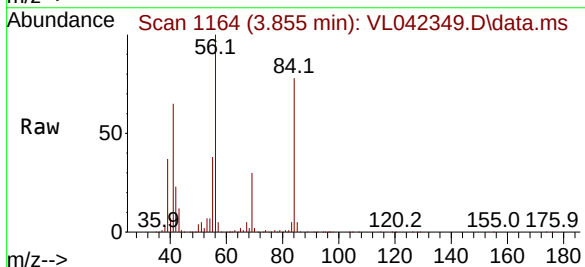
Tgt Ion: 84 Resp: 157035

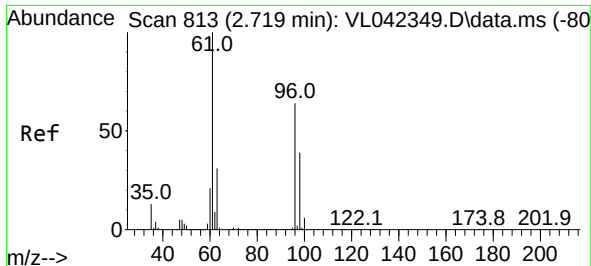
Ion Ratio Lower Upper

84 100

56 126.2 101.0 151.4

41 84.2 67.4 101.0

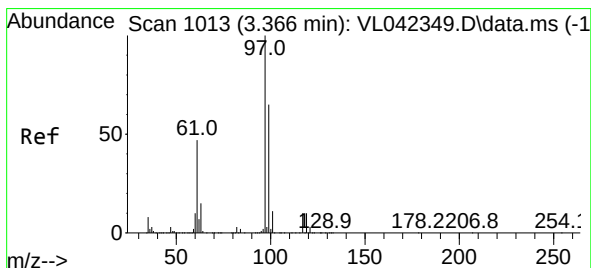
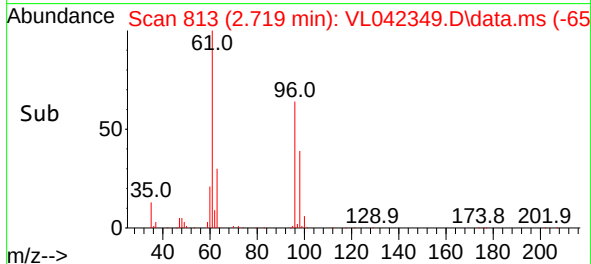
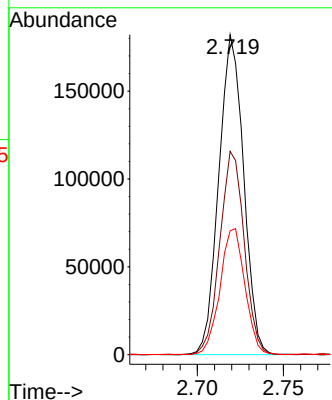
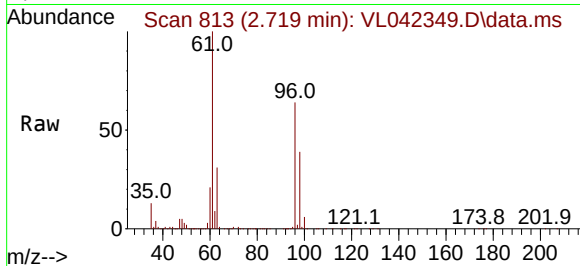




#31
 cis-1,2-Dichloroethene
 Concen: 9.397 ppbv
 RT: 2.719 min Scan# 813
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44

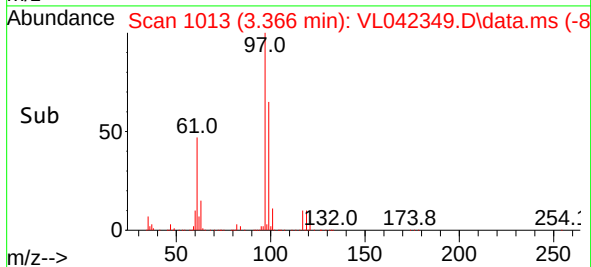
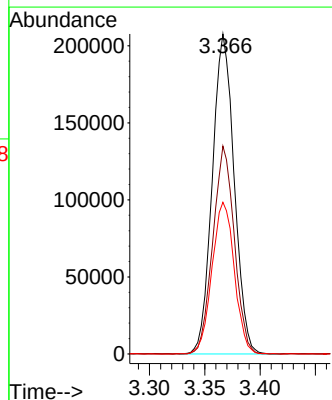
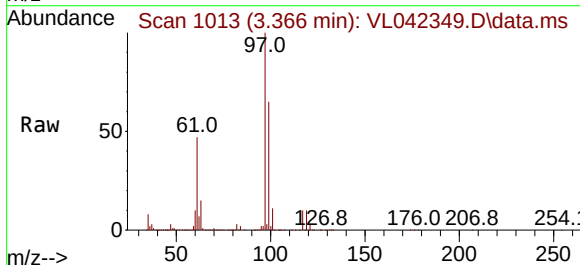
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

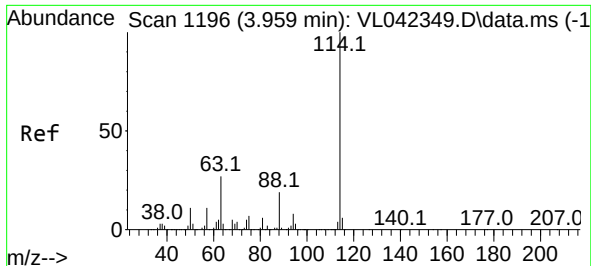
Tgt Ion: 61 Resp: 183082
 Ion Ratio Lower Upper
 61 100
 96 63.5 50.8 76.2
 98 38.6 30.9 46.3



#32
 1,1,1-Trichloroethane
 Concen: 9.187 ppbv
 RT: 3.366 min Scan# 1013
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44

Tgt Ion: 97 Resp: 285336
 Ion Ratio Lower Upper
 97 100
 99 63.7 51.0 76.4
 61 48.5 38.8 58.2

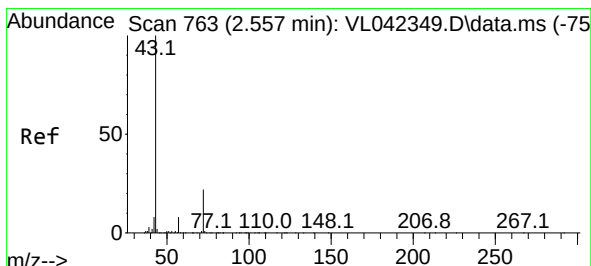
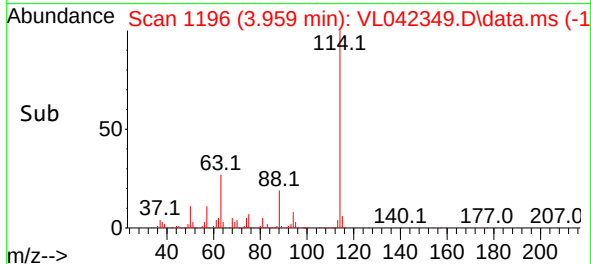
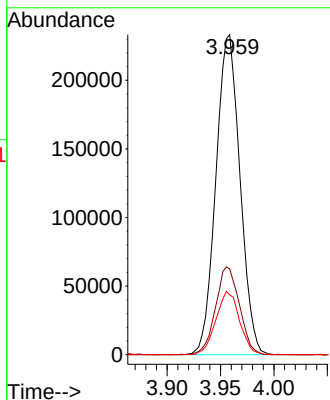
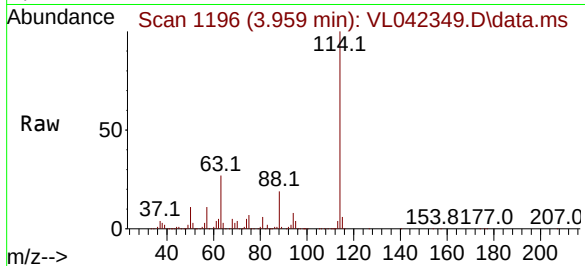




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

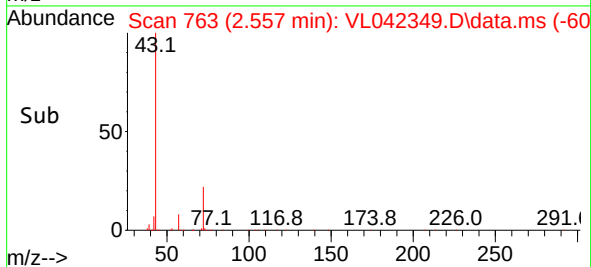
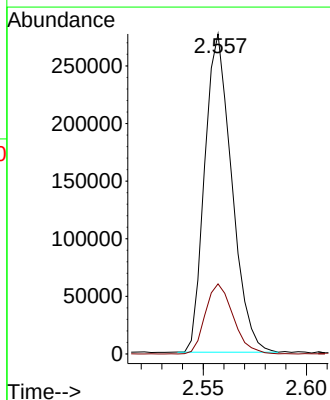
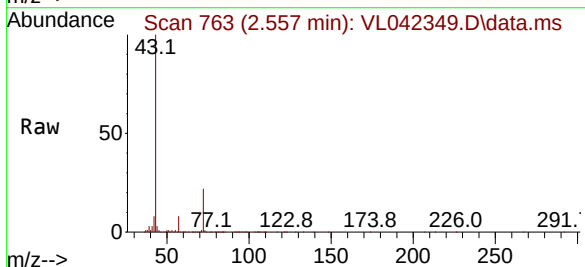
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

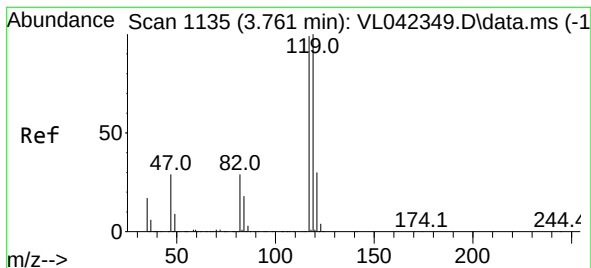
Tgt Ion:114 Resp: 366544
Ion Ratio Lower Upper
114 100
63 27.2 21.8 32.6
88 19.4 15.5 23.3



#34
2-Butanone
Concen: 8.683 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 43 Resp: 251704
Ion Ratio Lower Upper
43 100
72 22.7 18.2 27.2





#35

Carbon Tetrachloride

Concen: 8.513 ppbv

RT: 3.761 min Scan# 1135

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

Instrument :

MSVOA_1

ClientSampleId :

VSTDICCC010

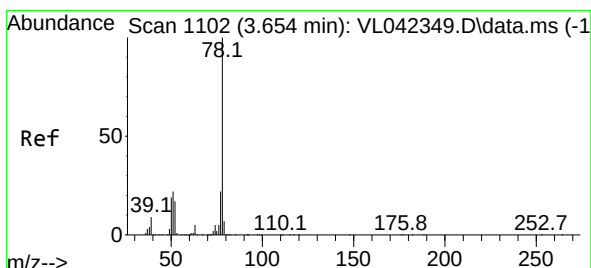
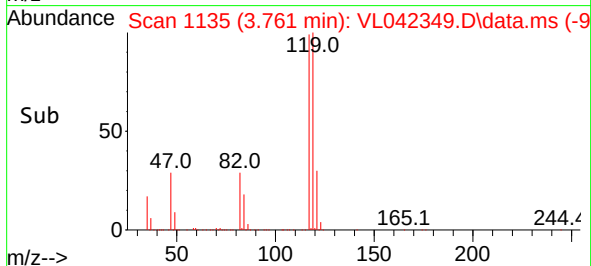
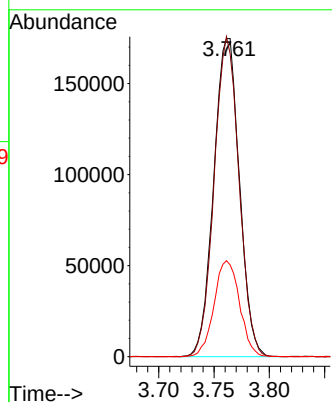
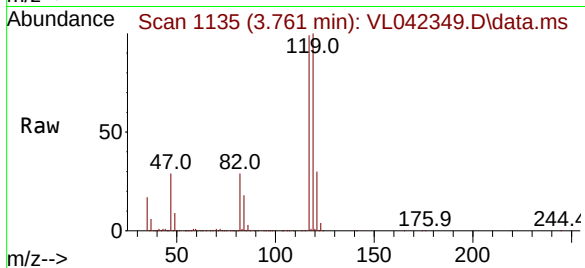
Tgt Ion:117 Resp: 282402

Ion Ratio Lower Upper

117 100

119 100.6 80.5 120.7

121 30.2 24.2 36.2



#36

Benzene

Concen: 9.292 ppbv

RT: 3.654 min Scan# 1102

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

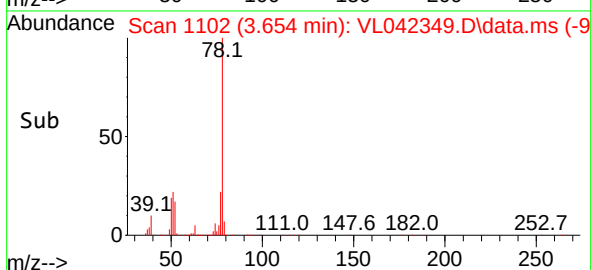
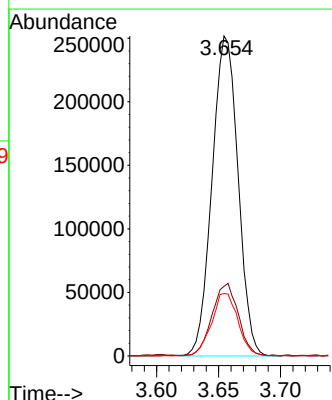
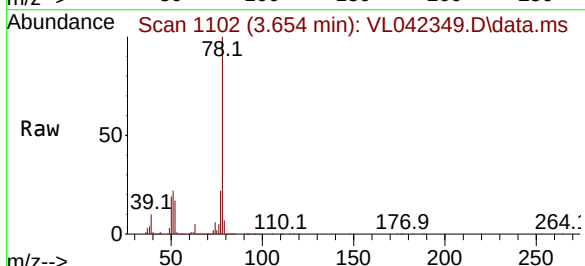
Tgt Ion: 78 Resp: 367355

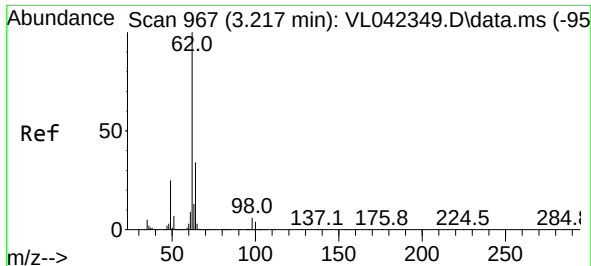
Ion Ratio Lower Upper

78 100

77 21.7 17.4 26.0

50 19.4 15.5 23.3

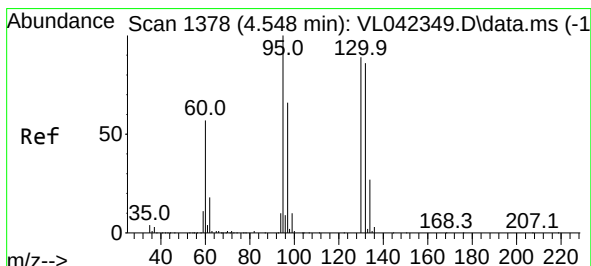
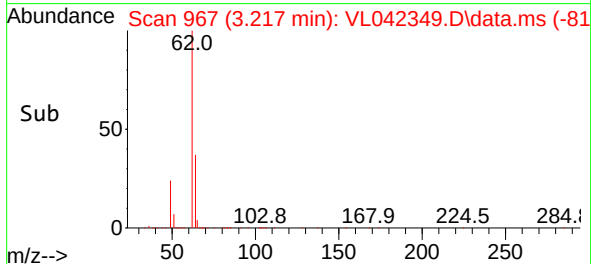
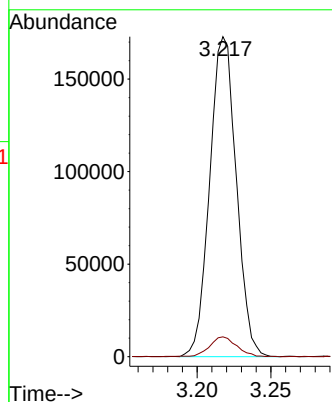
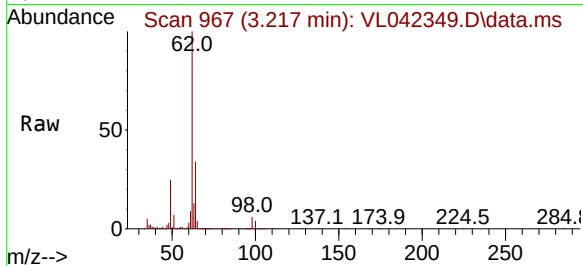




#37
1,2-Dichloroethane
Concen: 9.145 ppbv
RT: 3.217 min Scan# 967
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

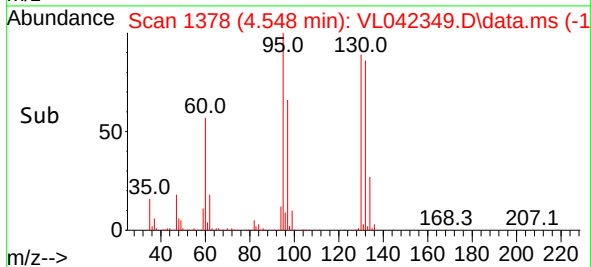
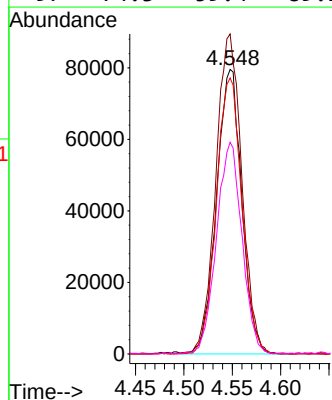
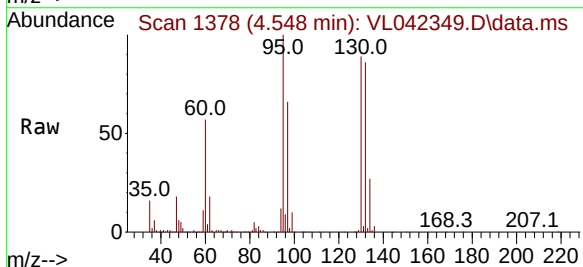
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

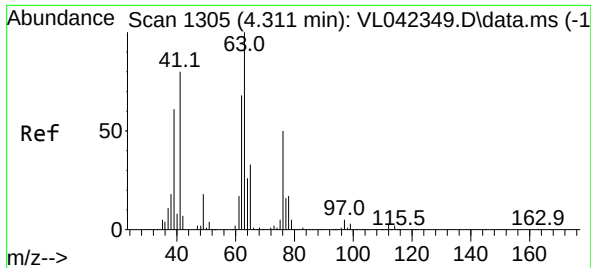
Tgt Ion: 62 Resp: 216999
Ion Ratio Lower Upper
62 100
98 6.4 5.1 7.7



#38
Trichloroethene
Concen: 8.352 ppbv
RT: 4.548 min Scan# 1378
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:130 Resp: 144767
Ion Ratio Lower Upper
130 100
95 112.2 89.8 134.6
132 97.1 77.7 116.5
97 74.3 59.4 89.2





#39

1,2-Dichloropropane

Concen: 9.197 ppbv

RT: 4.311 min Scan# 1305

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

Instrument :

MSVOA_1

ClientSampleId :

VSTDICCC010

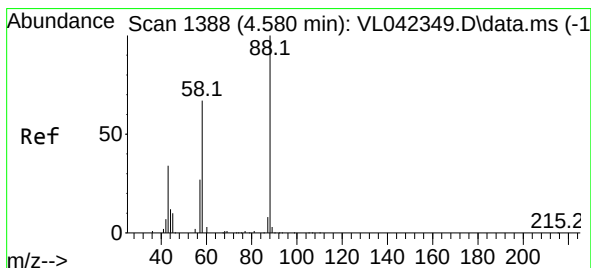
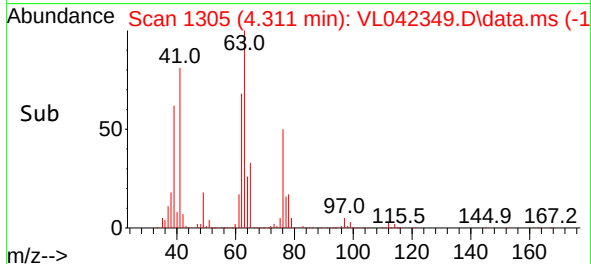
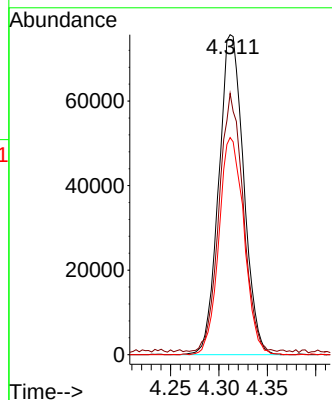
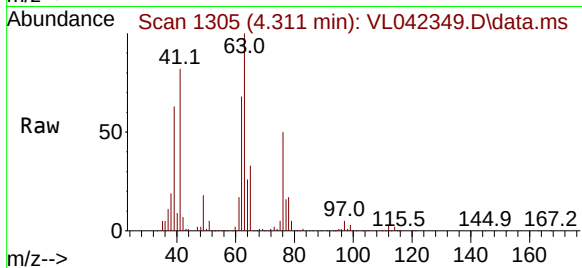
Tgt Ion: 63 Resp: 135605

Ion Ratio Lower Upper

63 100

41 80.2 64.2 96.2

62 67.9 54.3 81.5



#40

1,4-Dioxane

Concen: 8.348 ppbv

RT: 4.580 min Scan# 1388

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

Tgt Ion: 88 Resp: 66662

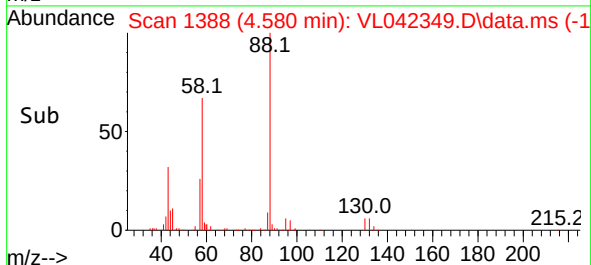
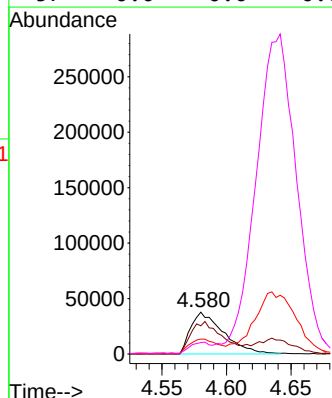
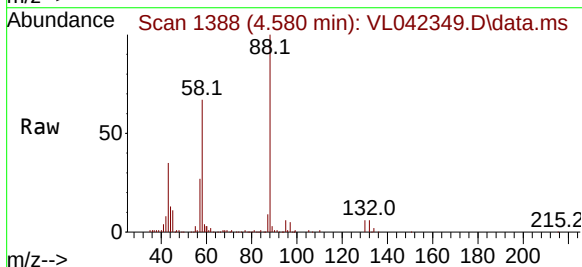
Ion Ratio Lower Upper

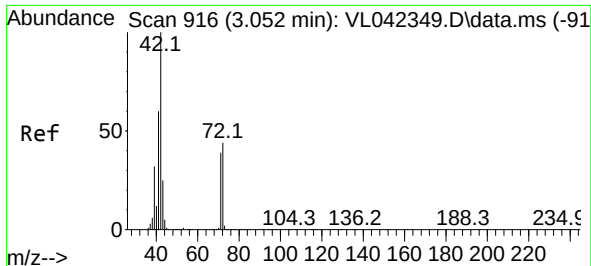
88 100

58 76.7 61.4 92.0

43 29.0 23.2 34.8

57 0.0 0.0 0.0

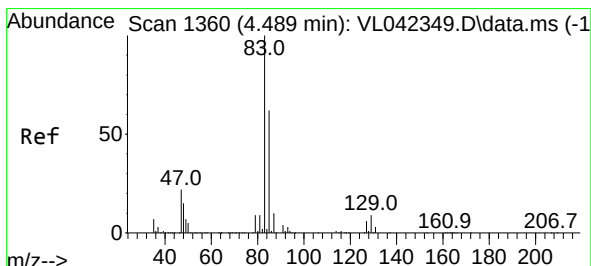
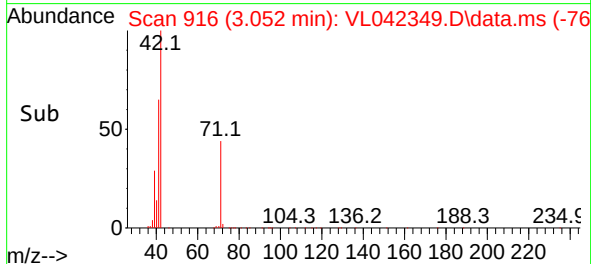
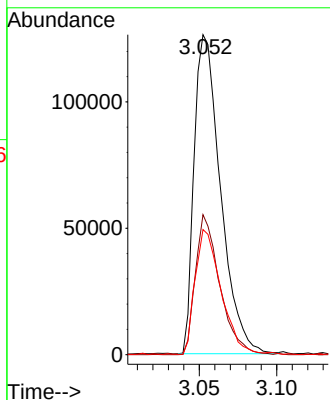
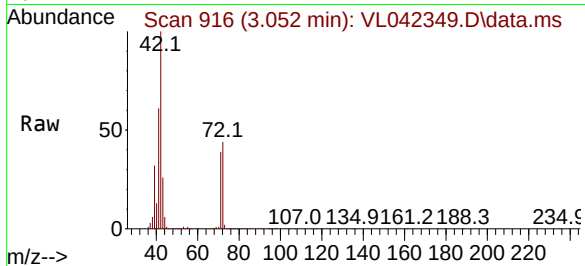




#41
Tetrahydrofuran
Concen: 8.950 ppbv
RT: 3.052 min Scan# 916
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

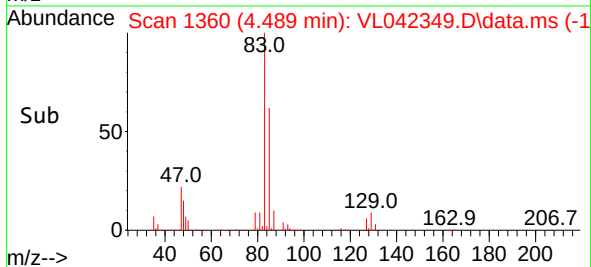
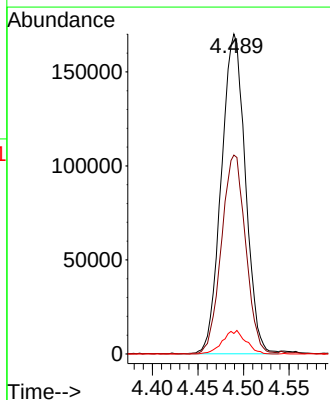
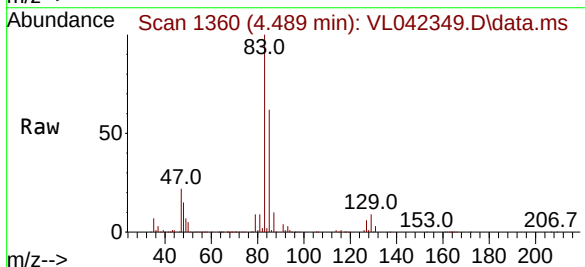
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

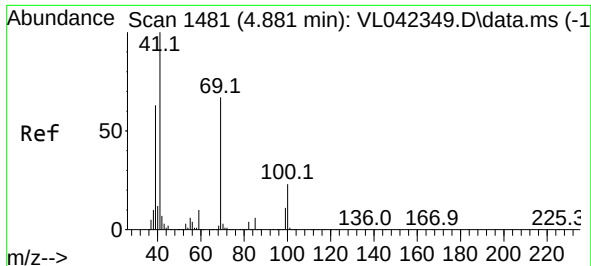
Tgt Ion: 42 Resp: 149905
Ion Ratio Lower Upper
42 100
72 40.4 32.3 48.5
71 39.3 31.4 47.2



#42
Bromodichloromethane
Concen: 9.456 ppbv
RT: 4.489 min Scan# 1360
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 83 Resp: 312268
Ion Ratio Lower Upper
83 100
85 62.1 49.7 74.5
127 6.4 5.1 7.7

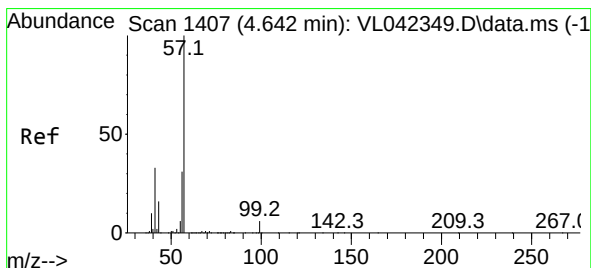
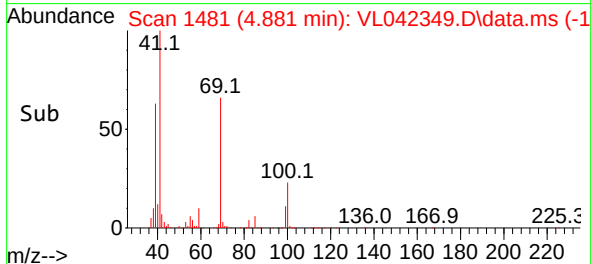
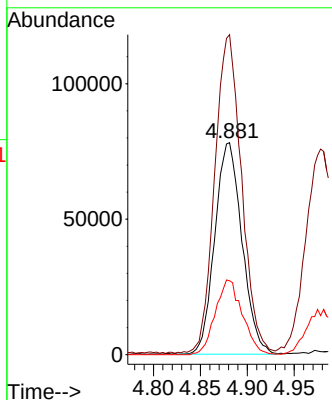
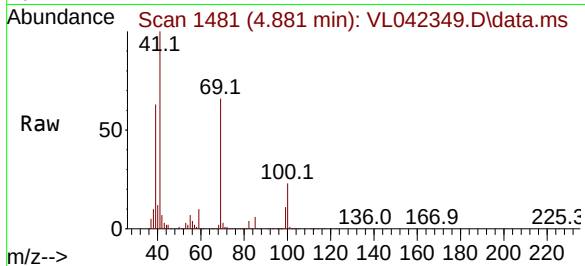




#43
Methyl Methacrylate
Concen: 8.876 ppbv
RT: 4.881 min Scan# 1481
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

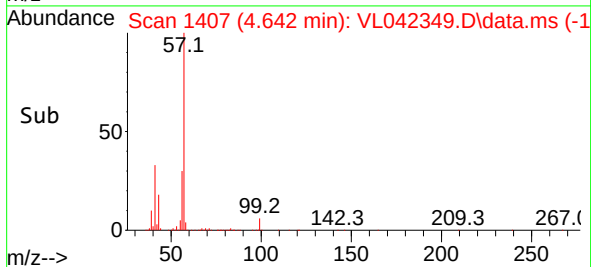
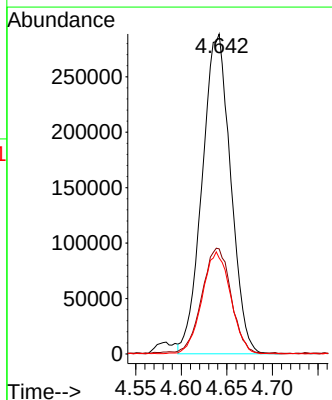
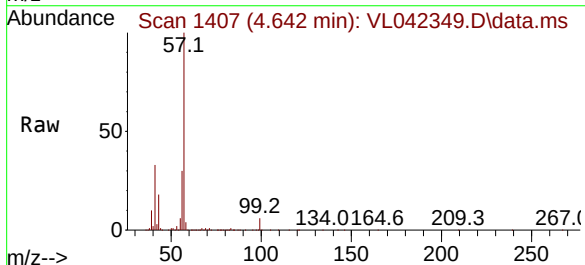
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

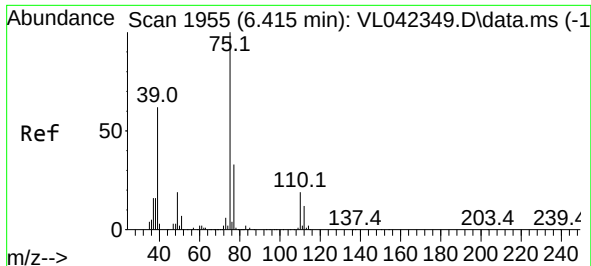
Tgt Ion: 69 Resp: 157501
Ion Ratio Lower Upper
69 100
41 148.2 118.6 177.8
100 35.2 28.2 42.2



#44
2,2,4-Trimethylpentane
Concen: 9.157 ppbv
RT: 4.642 min Scan# 1407
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 57 Resp: 626085
Ion Ratio Lower Upper
57 100
41 34.0 27.2 40.8
56 32.1 25.7 38.5





#45

t-1,3-Dichloropropene

Concen: 9.233 ppbv

RT: 6.415 min Scan# 1955

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

Instrument :

MSVOA_L

ClientSampleId :

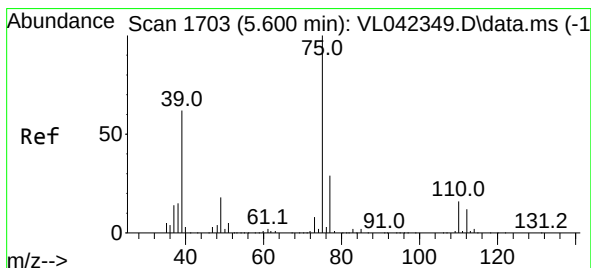
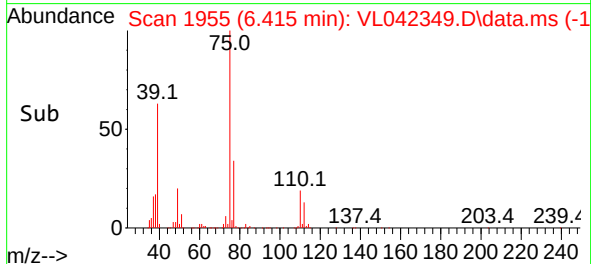
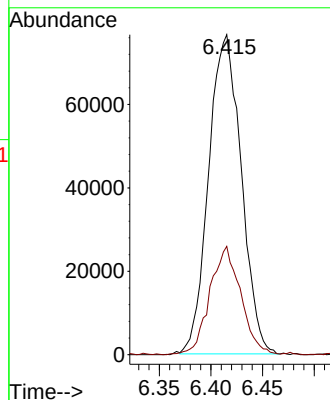
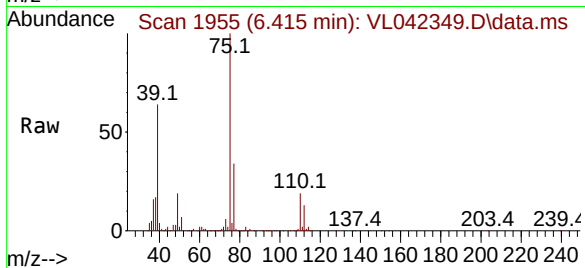
VSTDICCC010

Tgt Ion: 75 Resp: 168223

Ion Ratio Lower Upper

75 100

77 33.8 27.0 40.6



#46

cis-1,3-Dichloropropene

Concen: 9.377 ppbv

RT: 5.600 min Scan# 1703

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

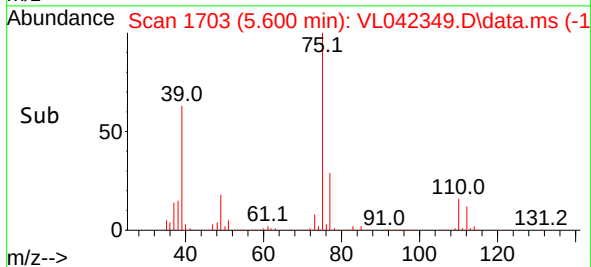
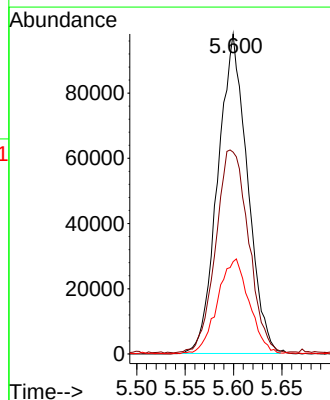
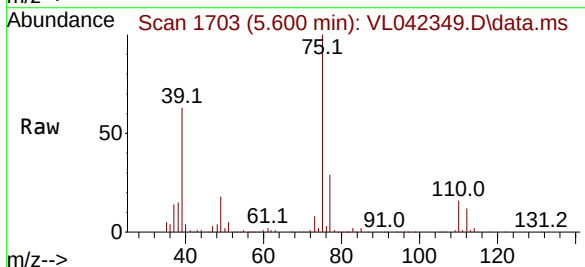
Tgt Ion: 75 Resp: 208811

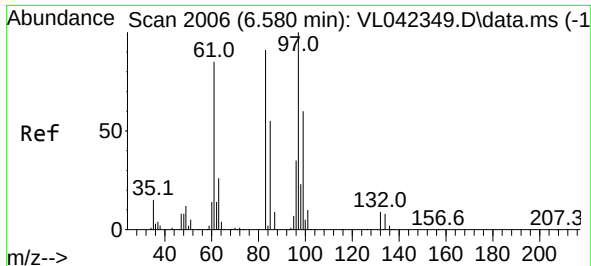
Ion Ratio Lower Upper

75 100

39 62.5 50.0 75.0

77 28.8 23.0 34.6

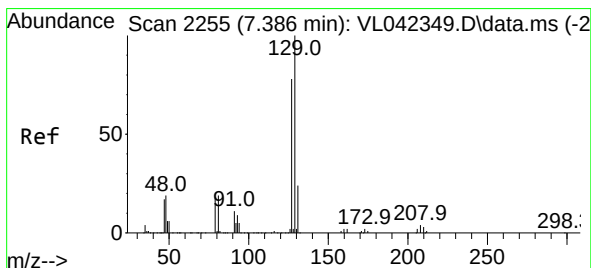
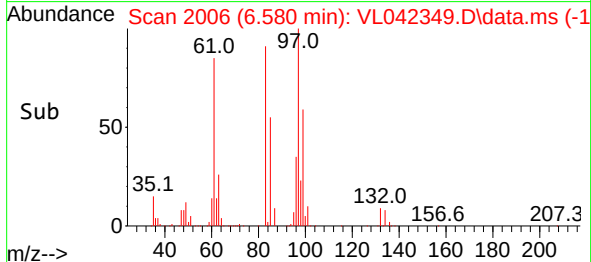
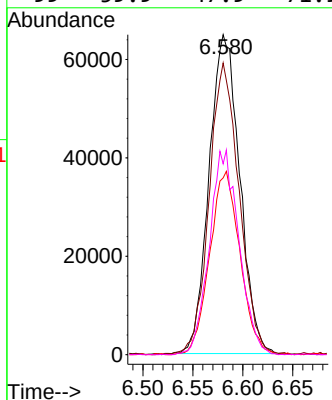
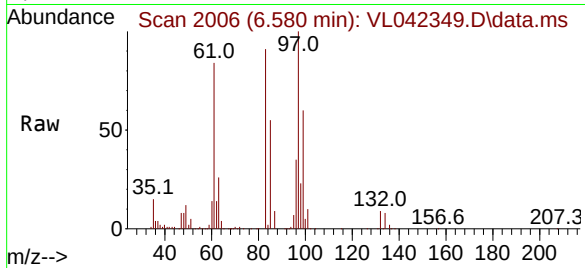




#47
1,1,2-Trichloroethane
Concen: 9.181 ppbv
RT: 6.580 min Scan# 2006
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

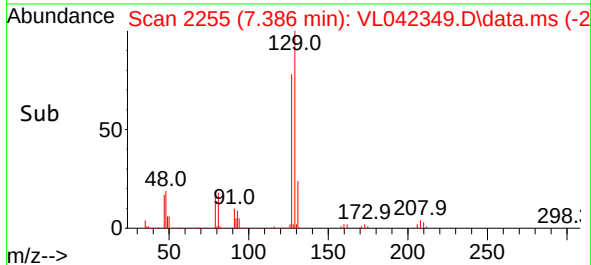
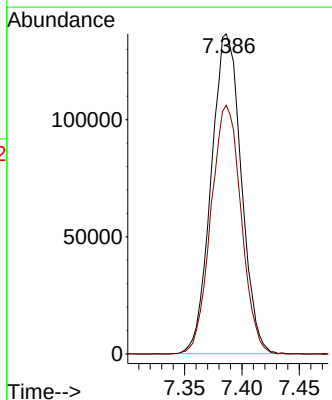
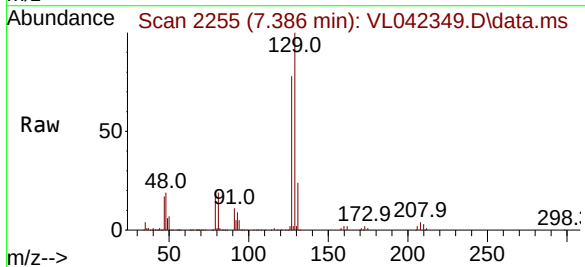
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

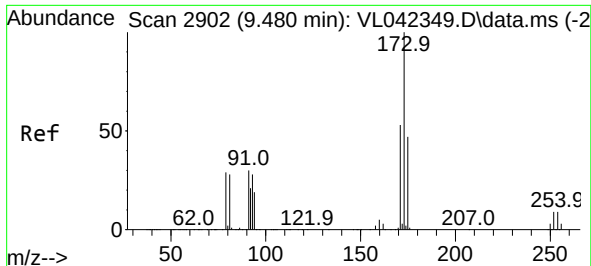
Tgt Ion: 97 Resp: 137898
Ion Ratio Lower Upper
97 100
83 91.0 72.8 109.2
85 55.3 44.2 66.4
99 59.9 47.9 71.9



#48
Dibromochloromethane
Concen: 9.388 ppbv
RT: 7.386 min Scan# 2255
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 129 Resp: 248954
Ion Ratio Lower Upper
129 100
127 78.2 39.1 117.3





#49

Bromoform

Concen: 9.734 ppbv

RT: 9.480 min Scan# 2902

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

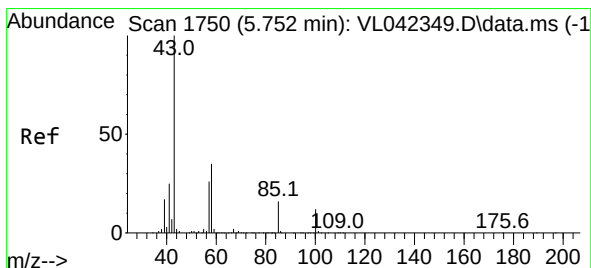
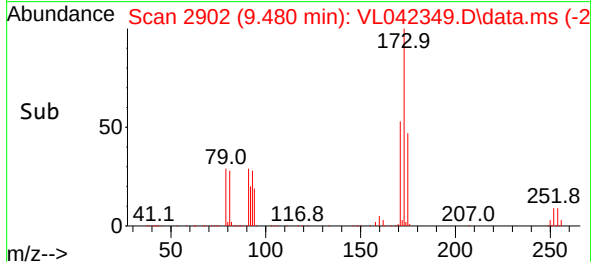
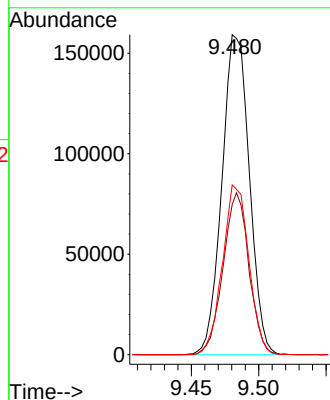
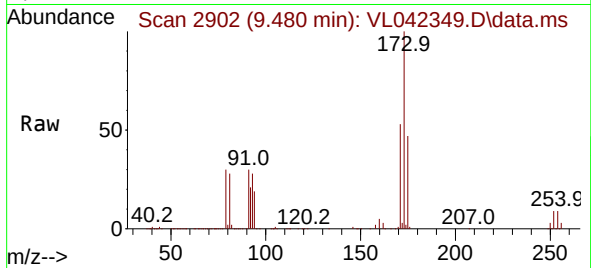
Tgt Ion:173 Resp: 225706

Ion Ratio Lower Upper

173 100

175 47.7 38.2 57.2

171 51.1 40.9 61.3



#50

4-Methyl-2-Pentanone

Concen: 8.215 ppbv

RT: 5.752 min Scan# 1750

Delta R.T. 0.000 min

Lab File: VL042349.D

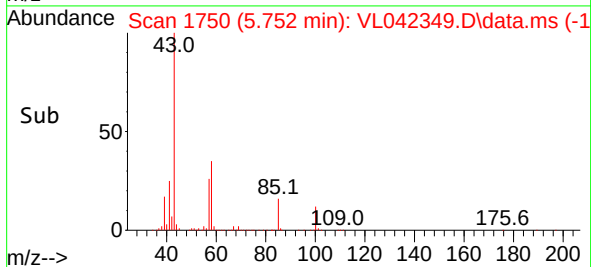
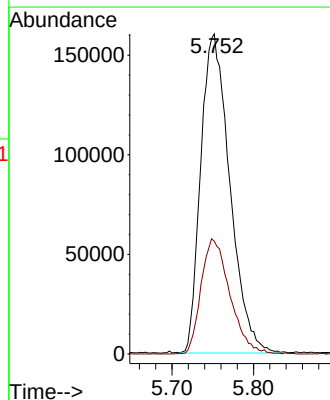
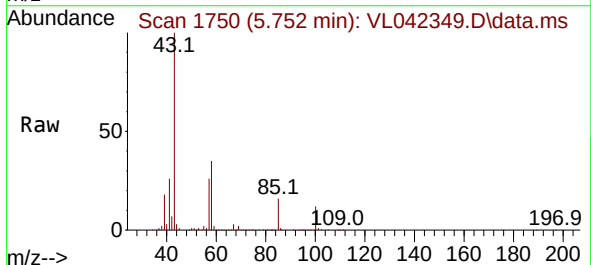
Acq: 17 Apr 2025 09:44

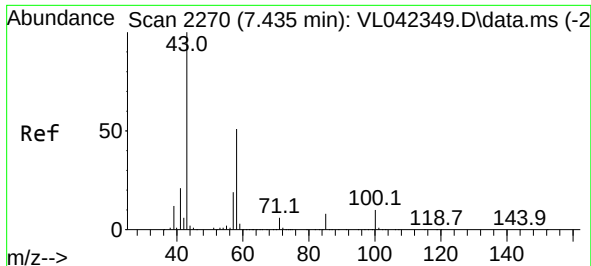
Tgt Ion: 43 Resp: 396548

Ion Ratio Lower Upper

43 100

58 35.8 28.6 43.0

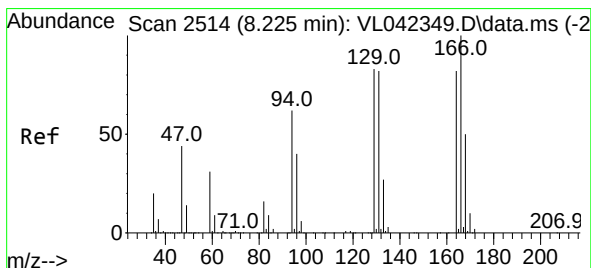
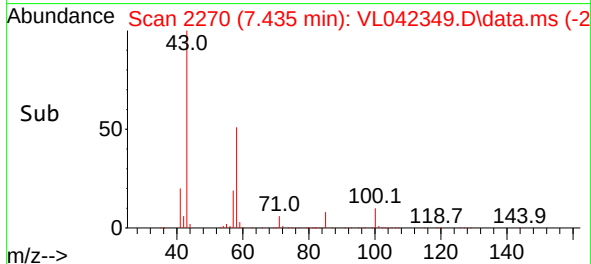
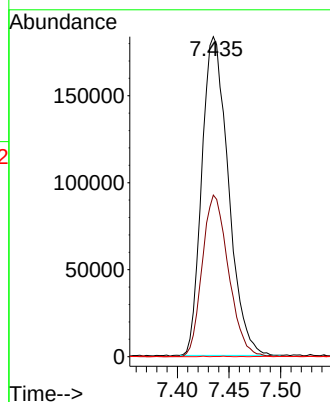
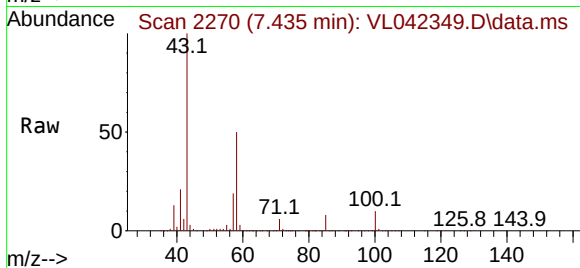




#51
2-Hexanone
Concen: 7.511 ppbv
RT: 7.435 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

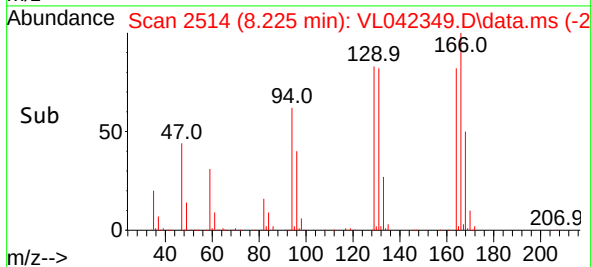
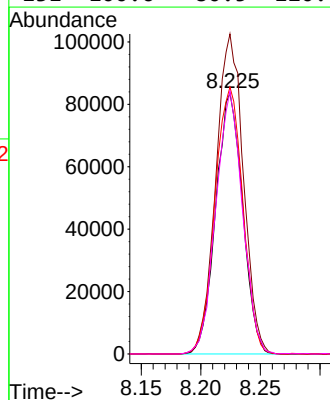
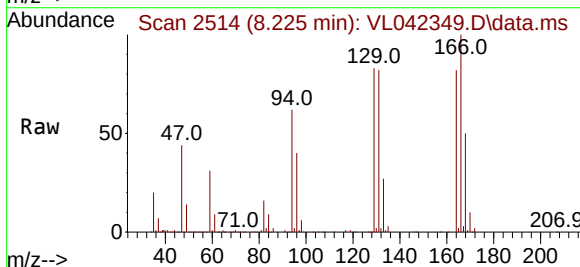
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

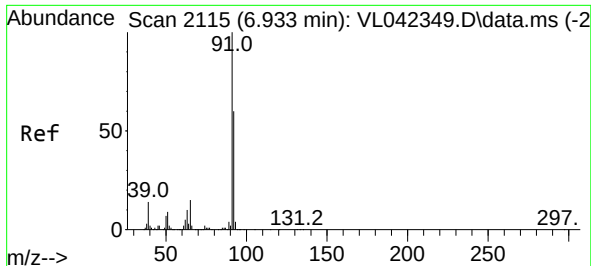
Tgt Ion: 43 Resp: 327165
Ion Ratio Lower Upper
43 100
58 50.3 40.2 60.4
98 0.1 0.1 0.1



#52
Tetrachloroethene
Concen: 8.553 ppbv
RT: 8.225 min Scan# 2514
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 164 Resp: 130720
Ion Ratio Lower Upper
164 100
166 122.7 98.2 147.2
129 102.3 81.8 122.8
131 100.6 80.5 120.7

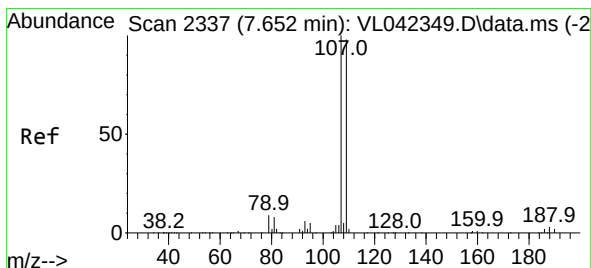
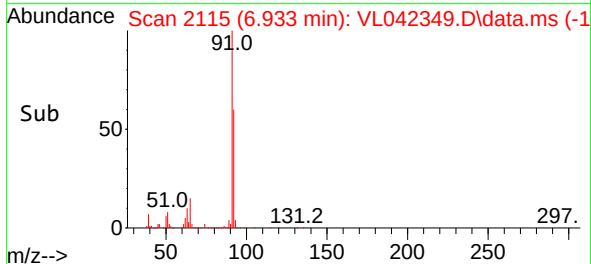
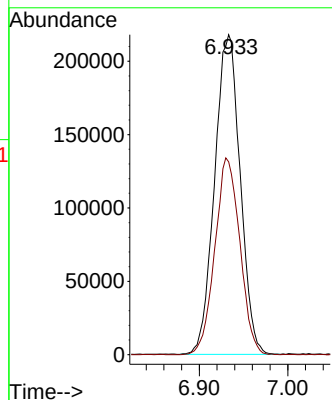
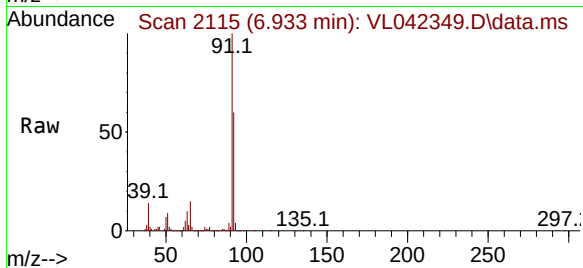




#53
Toluene
Concen: 9.216 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

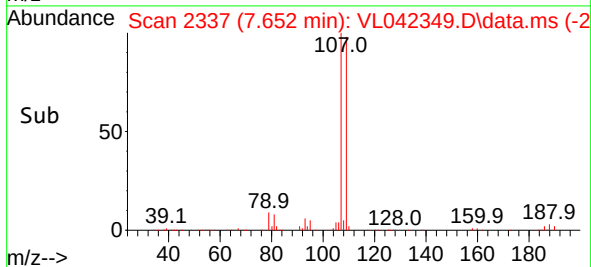
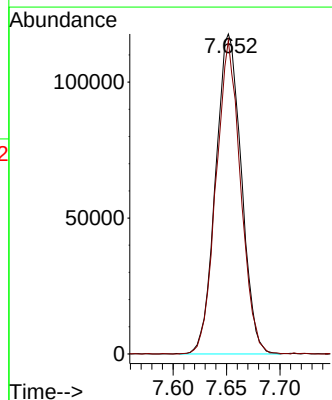
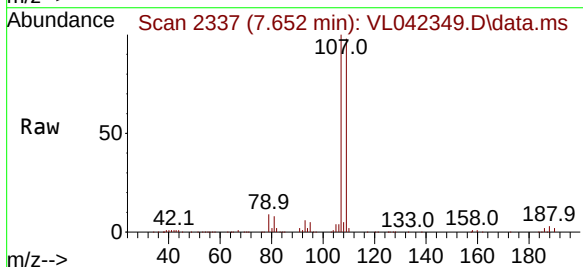
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

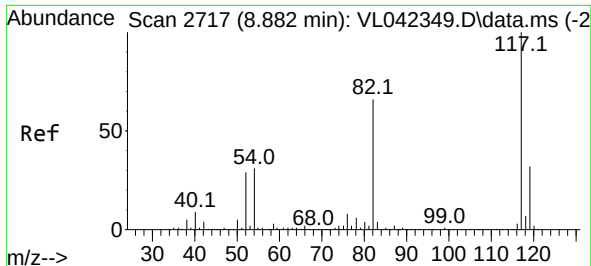
Tgt Ion: 91 Resp: 437258
Ion Ratio Lower Upper
91 100
92 60.3 48.2 72.4



#54
1,2-Dibromoethane
Concen: 9.235 ppbv
RT: 7.652 min Scan# 2337
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 107 Resp: 197665
Ion Ratio Lower Upper
107 100
109 97.8 78.2 117.4

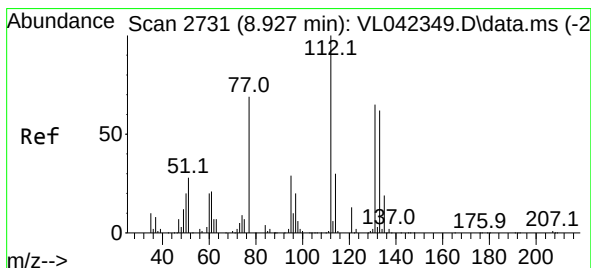
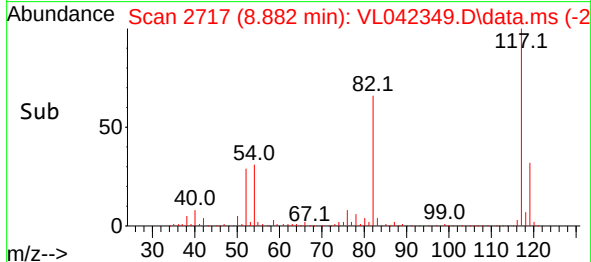
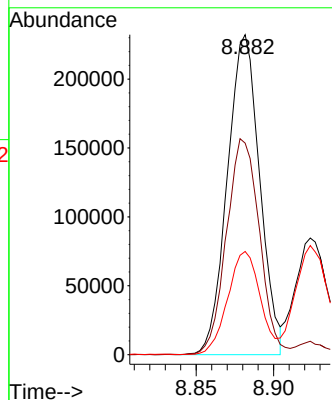
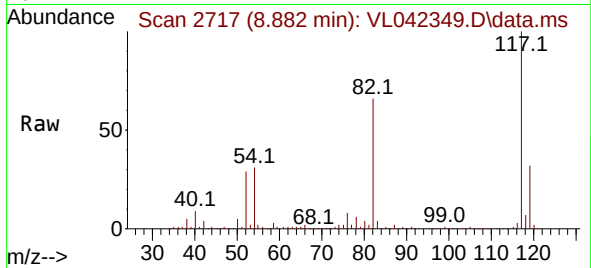




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2717
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

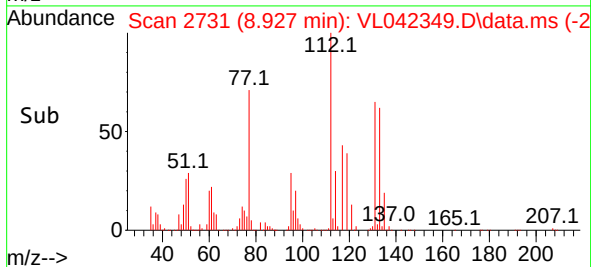
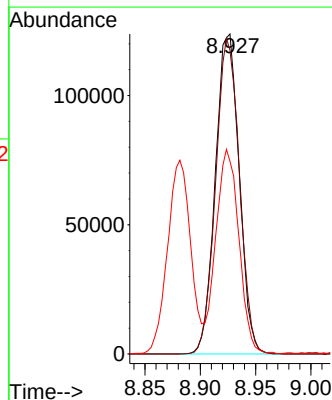
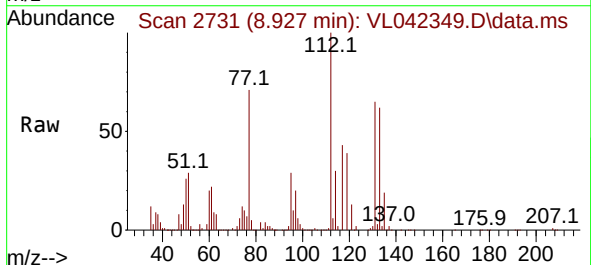
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

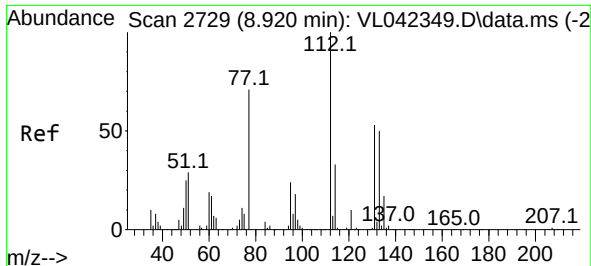
Tgt Ion:117 Resp: 338126
Ion Ratio Lower Upper
117 100
82 72.2 57.8 86.6
119 31.5 25.2 37.8



#56
1,1,1,2-Tetrachloroethane
Concen: 9.091 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:131 Resp: 186041
Ion Ratio Lower Upper
131 100
133 97.9 78.3 117.5
119 60.9 48.7 73.1

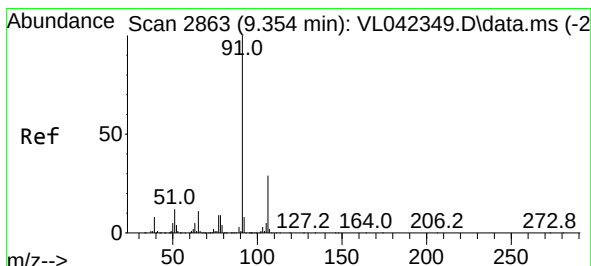
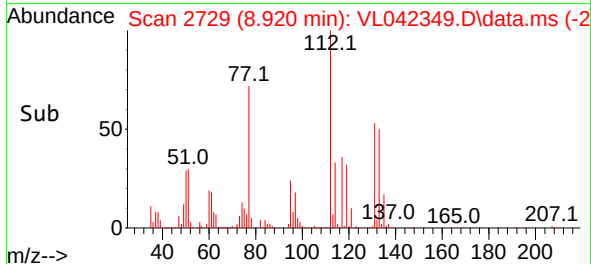
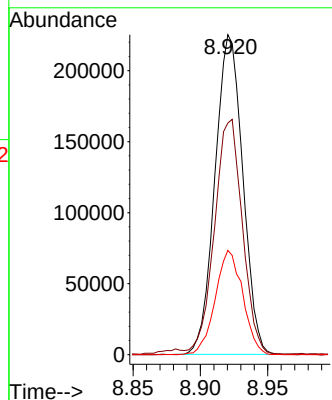
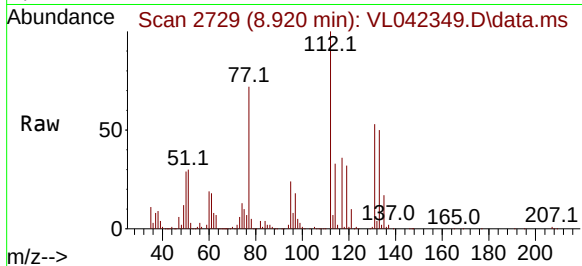




#57
Chlorobenzene
Concen: 9.187 ppbv
RT: 8.920 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

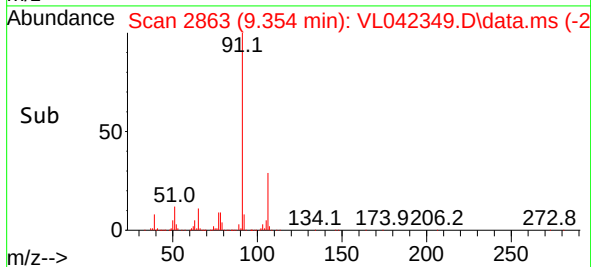
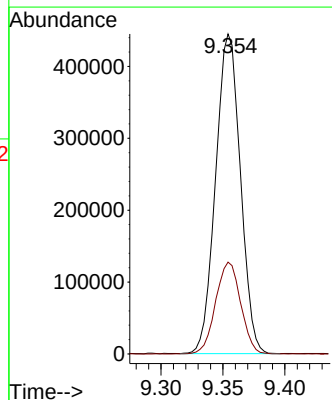
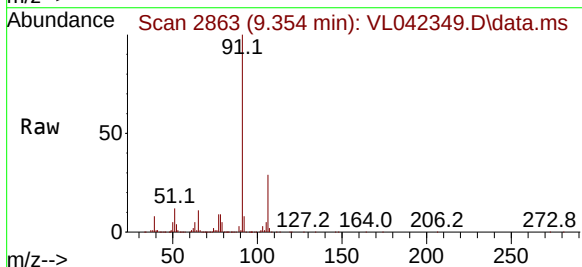
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

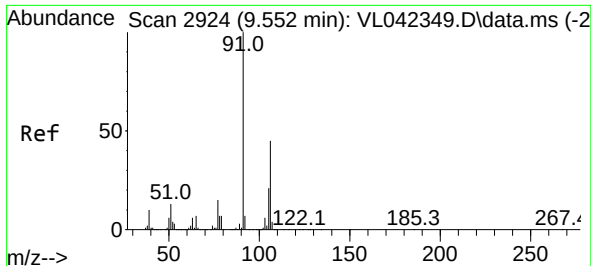
Tgt Ion	Ratio	Lower	Upper
112	100		
77	72.2	57.8	86.6
114	32.6	29.3	35.9



#58
Ethyl Benzene
Concen: 9.248 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion	Ratio	Lower	Upper
91	100		
106	28.7	23.0	34.4





#59

m/p-Xylene

Concen: 8.299 ppbv

RT: 9.552 min Scan# 2924

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

Instrument :

MSVOA_L

ClientSampleId :

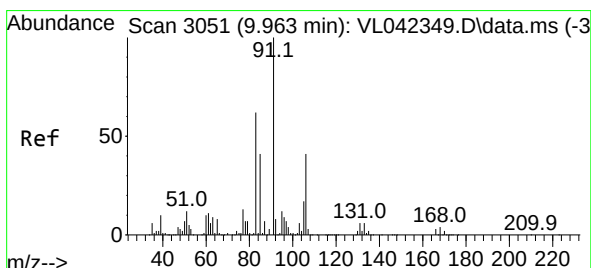
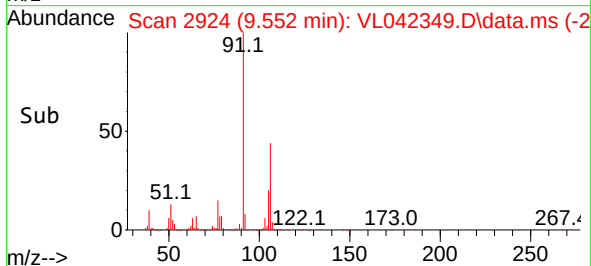
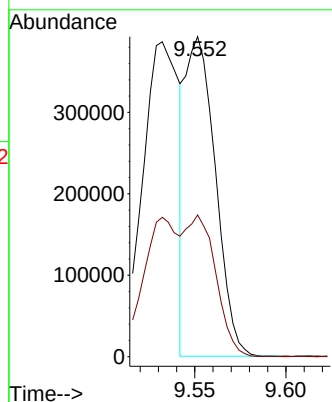
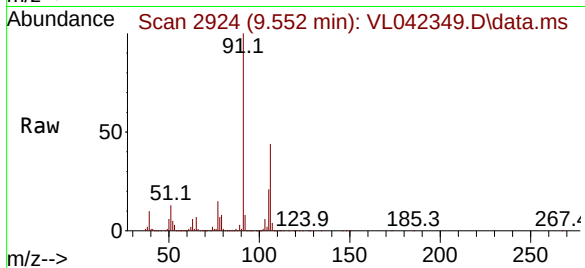
VSTDICCC010

Tgt Ion: 91 Resp: 449222

Ion Ratio Lower Upper

91 100

106 97.0 35.4 53.2#



#60

o-Xylene

Concen: 8.972 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. 0.000 min

Lab File: VL042349.D

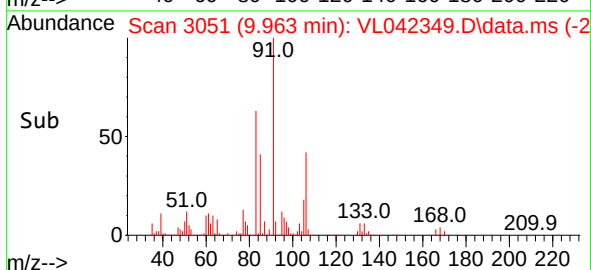
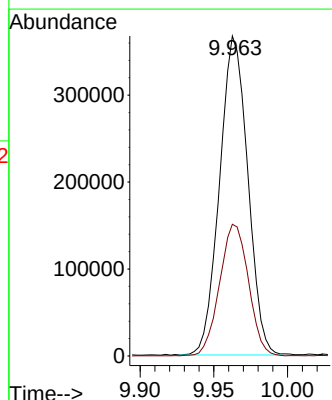
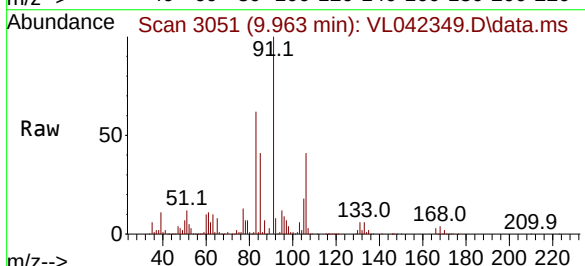
Acq: 17 Apr 2025 09:44

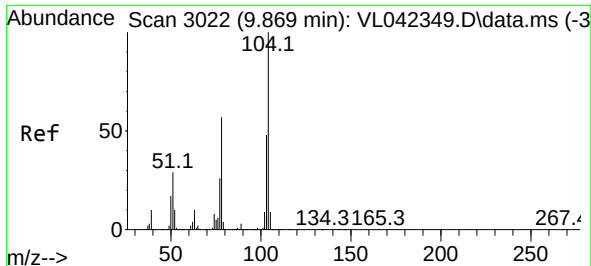
Tgt Ion: 91 Resp: 487616

Ion Ratio Lower Upper

91 100

106 42.3 21.1 63.4





#61

Styrene

Concen: 9.464 ppbv

RT: 9.869 min Scan# 3022

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

Instrument :

MSVOA_1

ClientSampleId :

VSTDICCC010

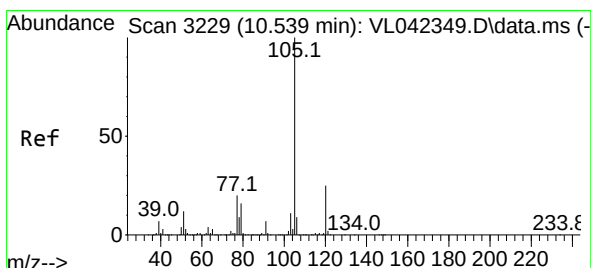
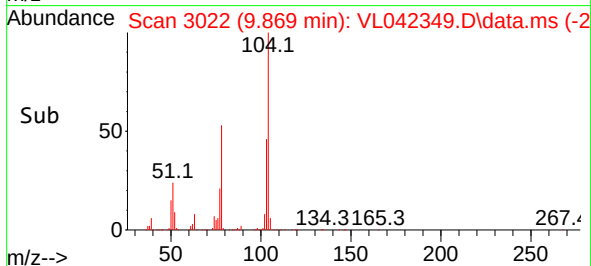
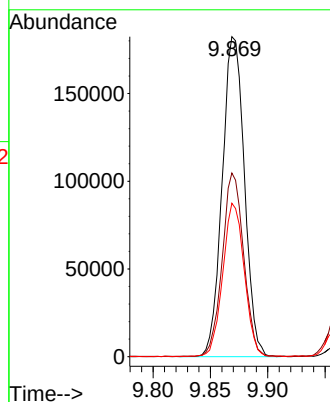
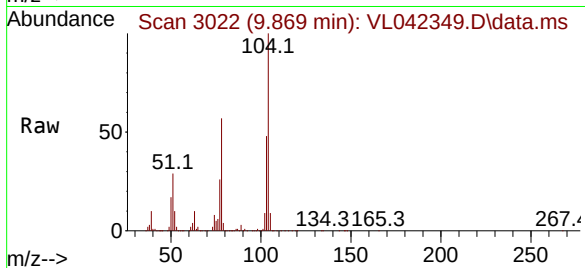
Tgt Ion:104 Resp: 245487

Ion Ratio Lower Upper

104 100

78 55.7 44.6 66.8

103 46.7 37.4 56.0



#62

Isopropylbenzene

Concen: 9.197 ppbv

RT: 10.539 min Scan# 3229

Delta R.T. 0.000 min

Lab File: VL042349.D

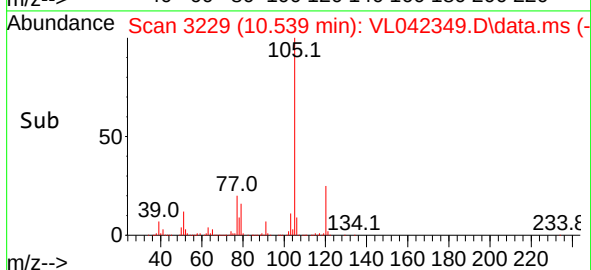
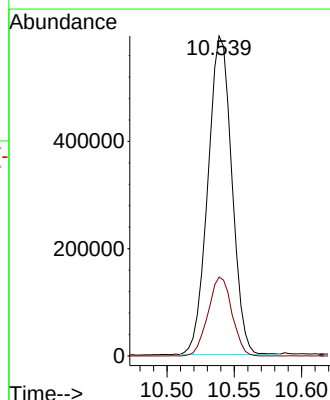
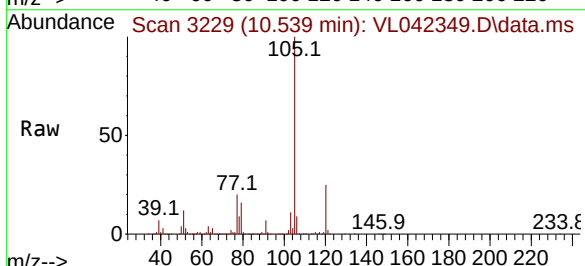
Acq: 17 Apr 2025 09:44

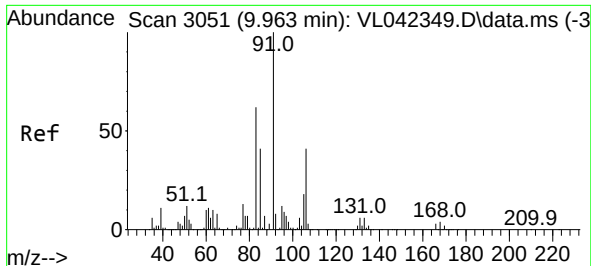
Tgt Ion:105 Resp: 733788

Ion Ratio Lower Upper

105 100

120 24.8 19.8 29.8





#63

1,1,2,2-Tetrachloroethane

Concen: 8.355 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

Instrument :

MSVOA_1

ClientSampleId :

VSTDICCC010

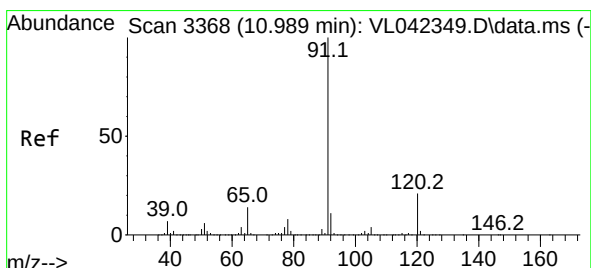
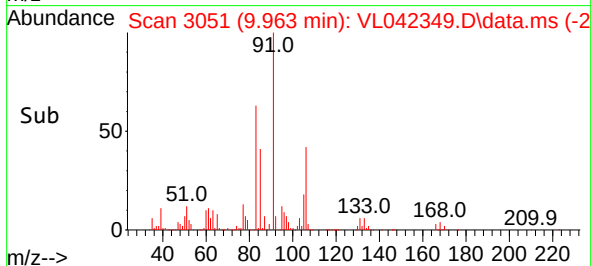
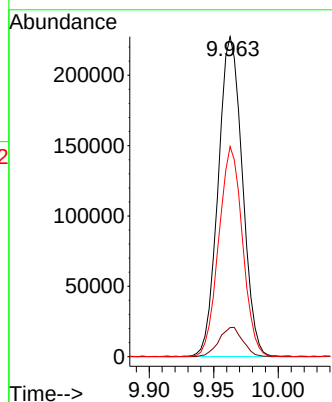
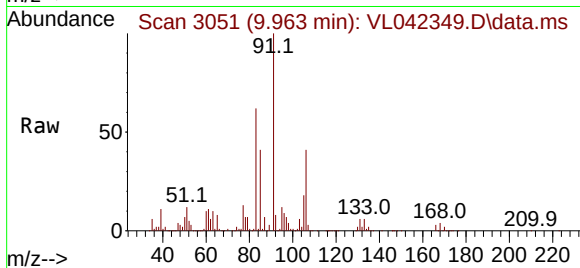
Tgt Ion: 83 Resp: 295041

Ion Ratio Lower Upper

83 100

131 9.1 4.5 13.7

85 64.7 32.4 97.0



#64

n-propylbenzene

Concen: 9.144 ppbv

RT: 10.989 min Scan# 3368

Delta R.T. 0.000 min

Lab File: VL042349.D

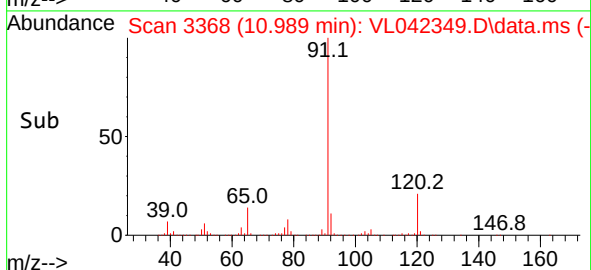
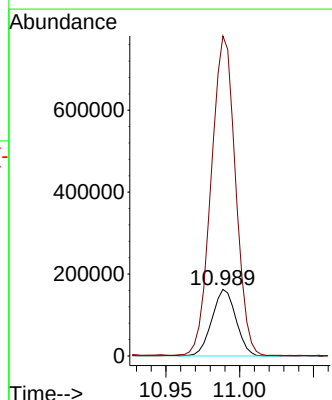
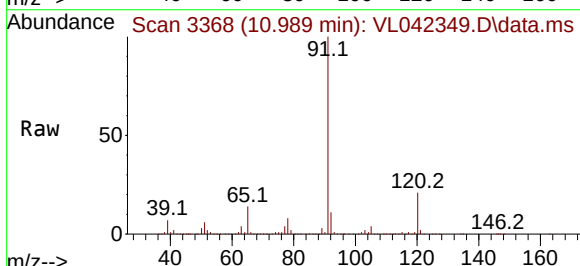
Acq: 17 Apr 2025 09:44

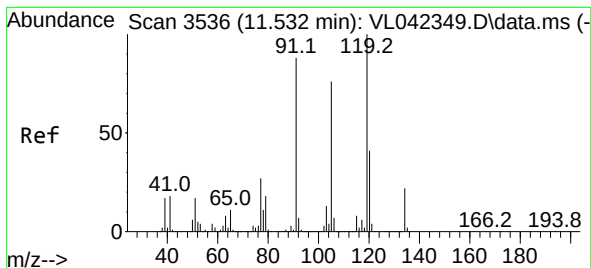
Tgt Ion: 120 Resp: 183390

Ion Ratio Lower Upper

120 100

91 490.5 392.4 588.6





#65

tert-Butylbenzene

Concen: 8.795 ppbv

RT: 11.532 min Scan# 3536

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

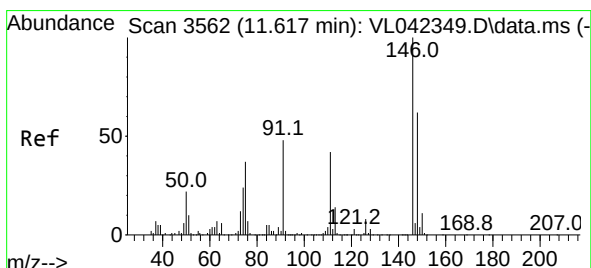
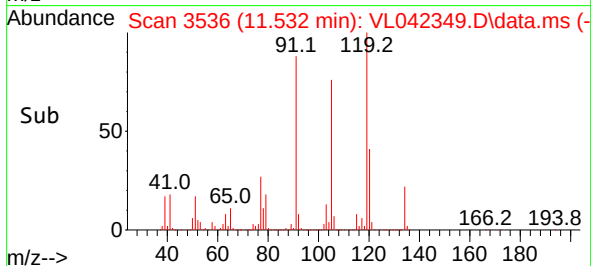
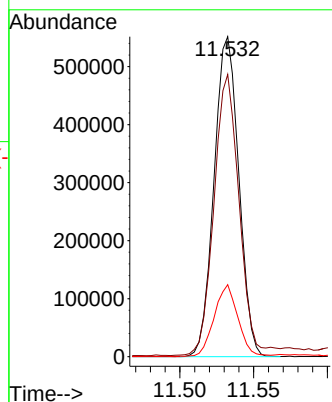
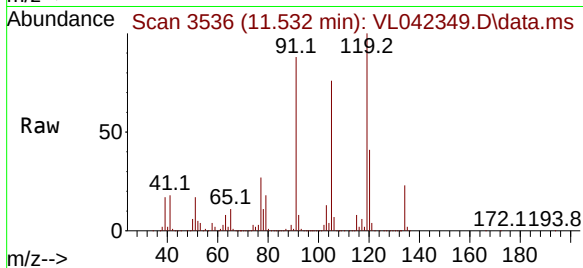
Tgt Ion:119 Resp: 644953

Ion Ratio Lower Upper

119 100

91 93.2 74.6 111.8

134 23.5 18.8 28.2



#66

Benzyl Chloride

Concen: 10.333 ppbv

RT: 11.617 min Scan# 3562

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

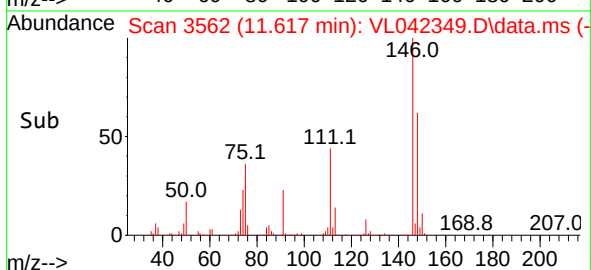
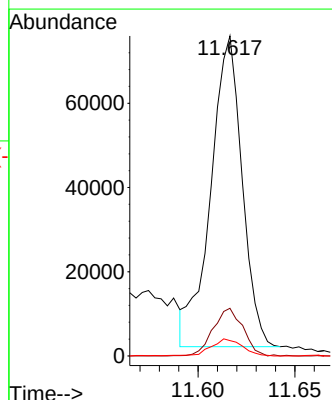
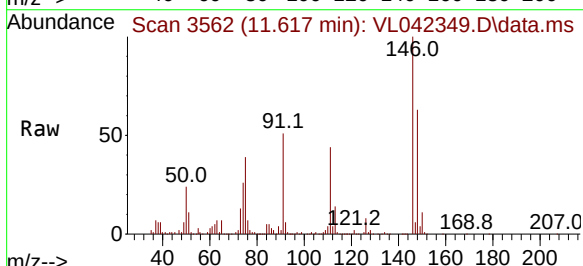
Tgt Ion: 91 Resp: 83269

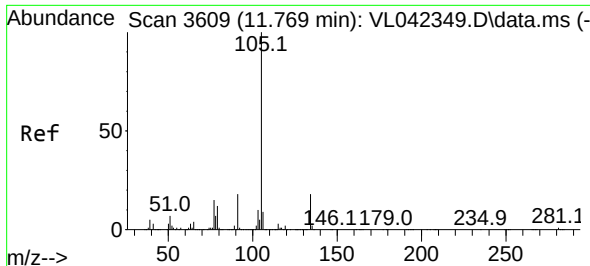
Ion Ratio Lower Upper

91 100

126 14.7 11.8 17.6

128 5.6 4.5 6.7

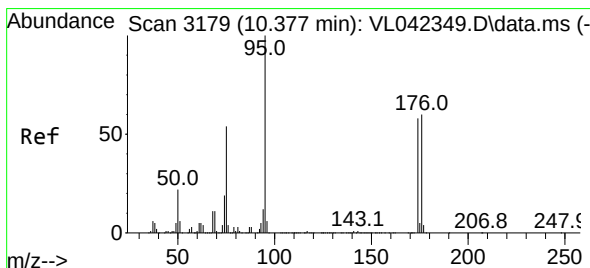
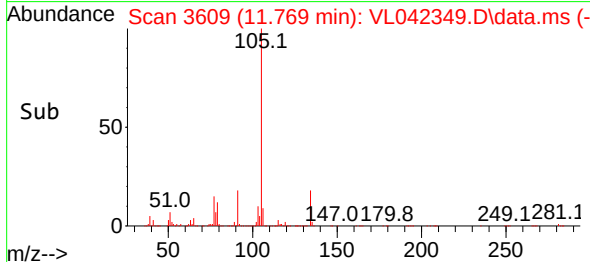
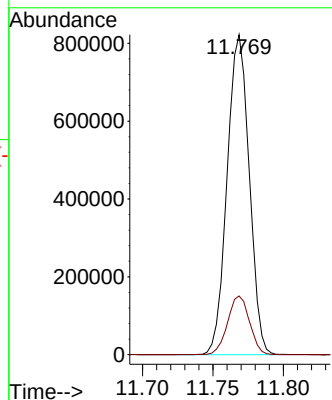
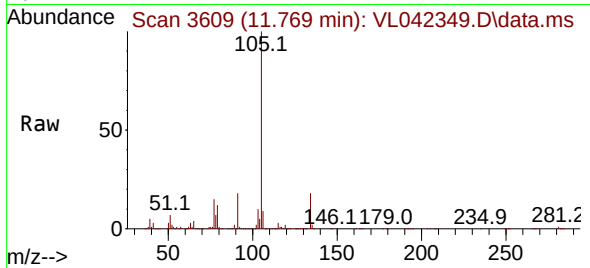




#67
 sec-Butylbenzene
 Concen: 8.824 ppbv
 RT: 11.769 min Scan# 3609
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44

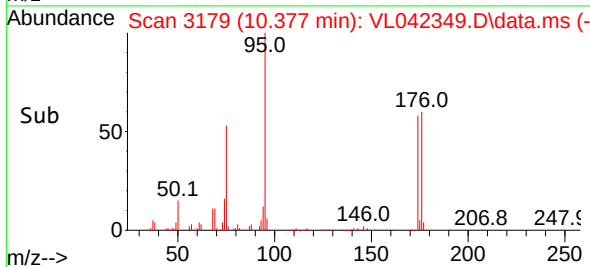
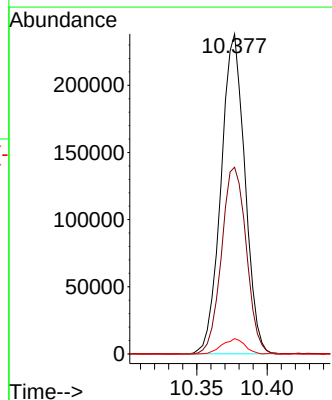
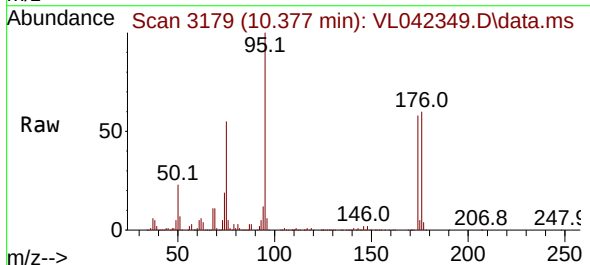
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

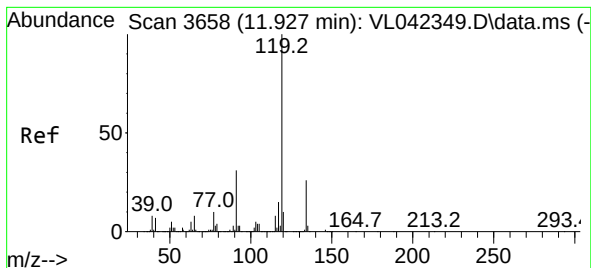
Tgt Ion:105 Resp: 900074
 Ion Ratio Lower Upper
 105 100
 134 18.2 14.6 21.8



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.114 ppbv
 RT: 10.377 min Scan# 3179
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44

Tgt Ion: 95 Resp: 281013
 Ion Ratio Lower Upper
 95 100
 174 60.6 48.5 72.7
 175 4.6 3.7 5.5





#69

p-Isopropyltoluene

Concen: 8.790 ppbv

RT: 11.927 min Scan# 3658

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

Instrument :

MSVOA_1

ClientSampleId :

VSTDICCC010

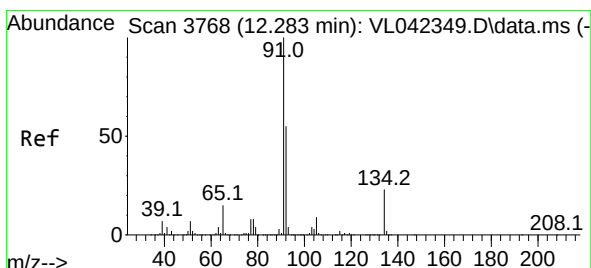
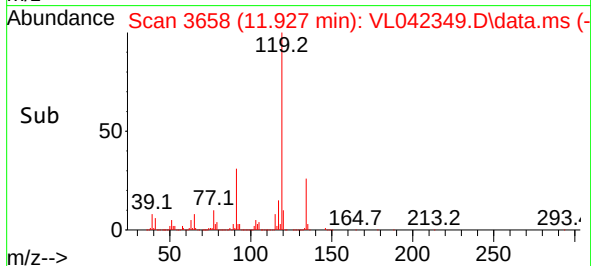
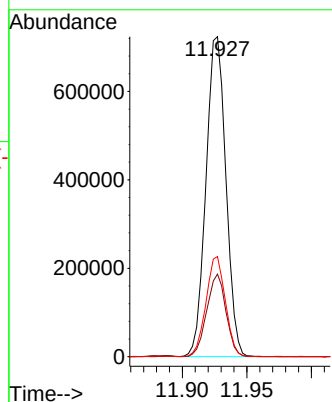
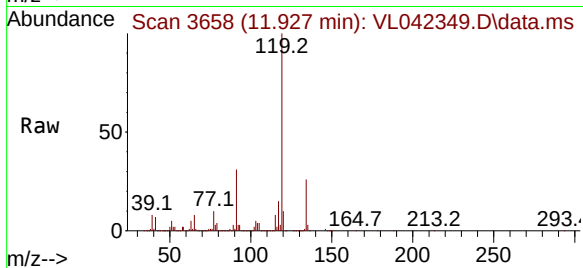
Tgt Ion:119 Resp: 778987

Ion Ratio Lower Upper

119 100

134 25.0 20.0 30.0

91 30.5 24.4 36.6



#70

n-Butylbenzene

Concen: 8.682 ppbv

RT: 12.283 min Scan# 3768

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

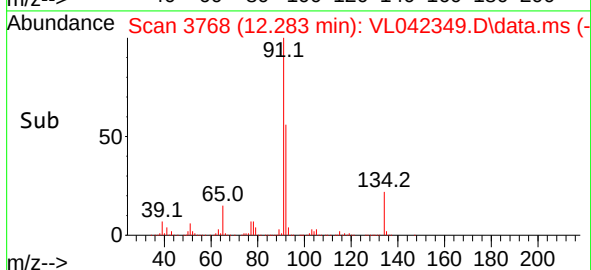
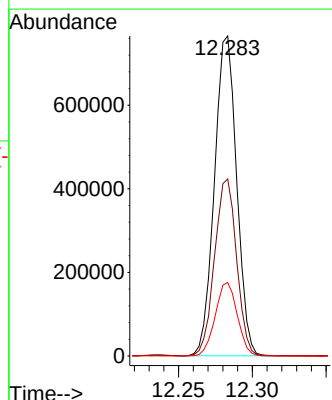
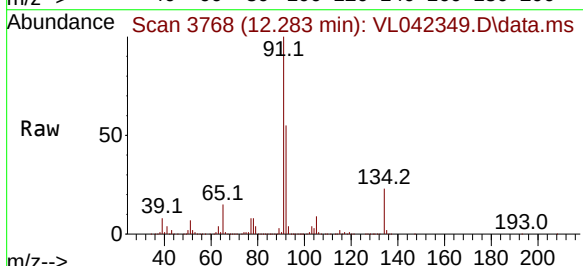
Tgt Ion: 91 Resp: 801364

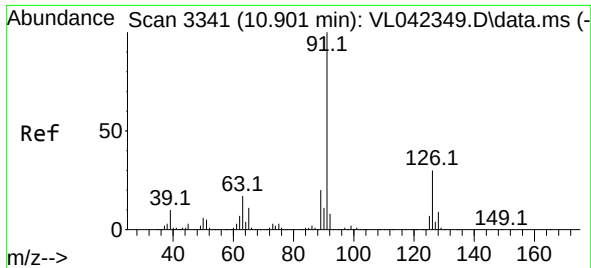
Ion Ratio Lower Upper

91 100

92 55.3 44.2 66.4

134 22.8 18.2 27.4

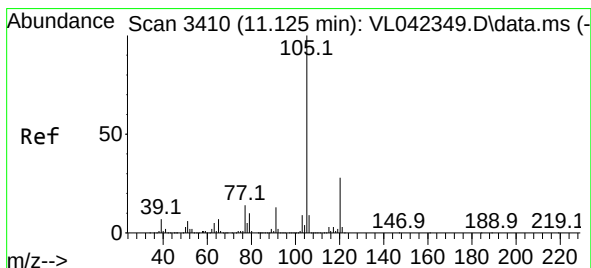
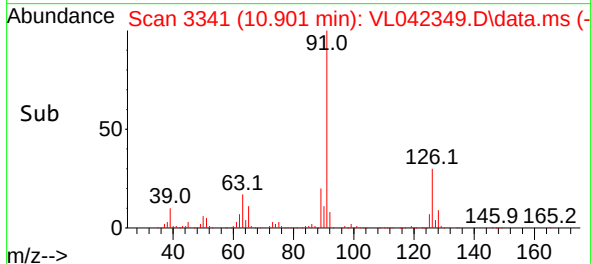
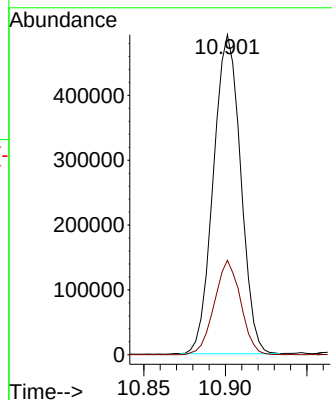
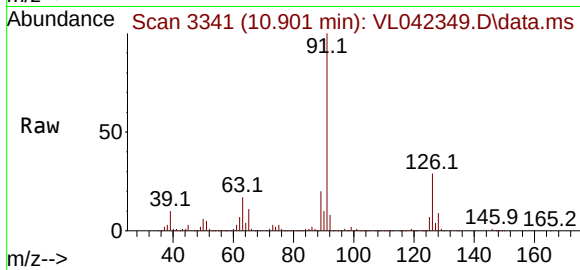




#71
2-Chlorotoluene
Concen: 9.157 ppbv
RT: 10.901 min Scan# 3341
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

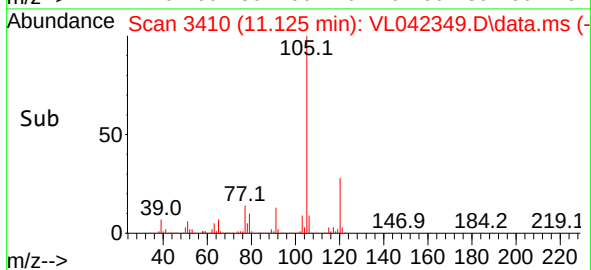
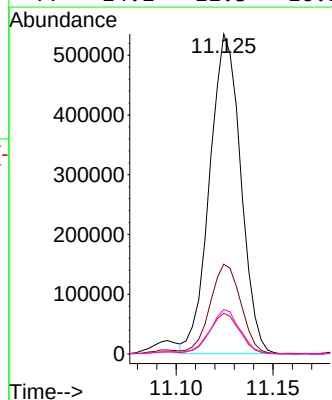
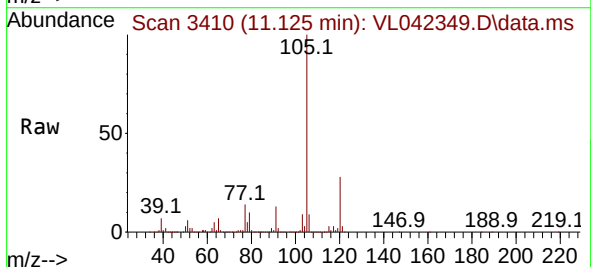
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

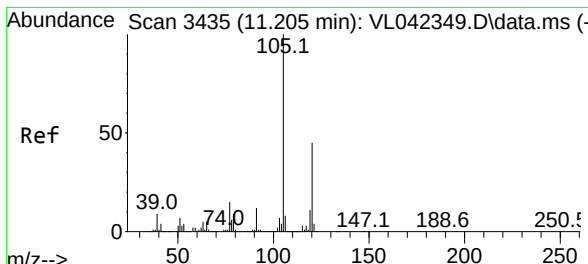
Tgt Ion: 91 Resp: 573039
Ion Ratio Lower Upper
91 100
126 28.4 11.4 45.4



#72
4-Ethyltoluene
Concen: 8.982 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 105 Resp: 596757
Ion Ratio Lower Upper
105 100
120 29.0 23.2 34.8
91 13.0 10.4 15.6
77 14.1 11.3 16.9



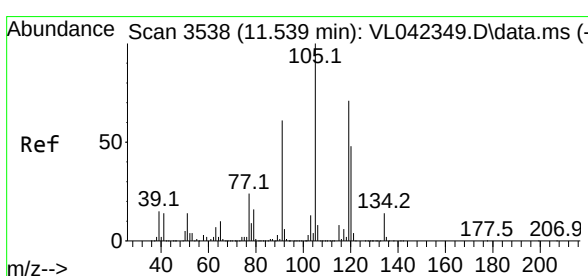
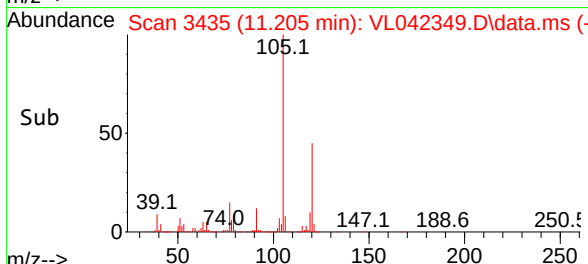
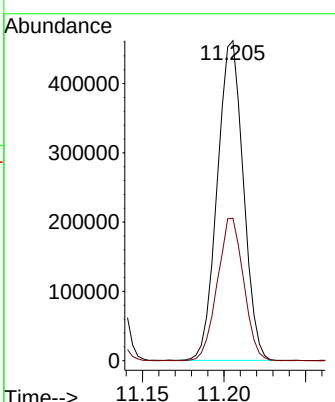
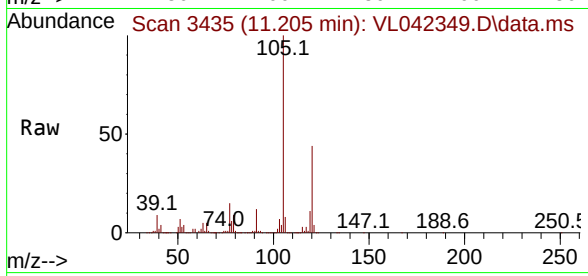


#73
 1,3,5-Trimethylbenzene
 Concen: 8.743 ppbv
 RT: 11.205 min Scan# 3435
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44

Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

Tgt Ion:105 Resp: 512855

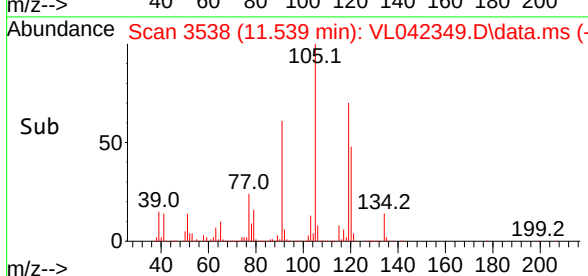
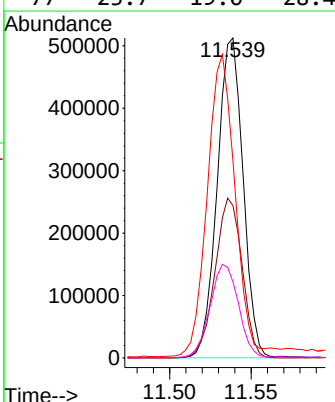
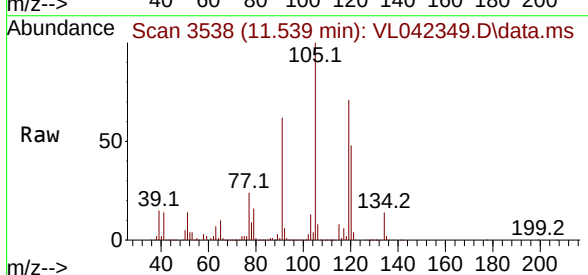
Ion	Ratio	Lower	Upper
105	100		
120	44.5	35.6	53.4

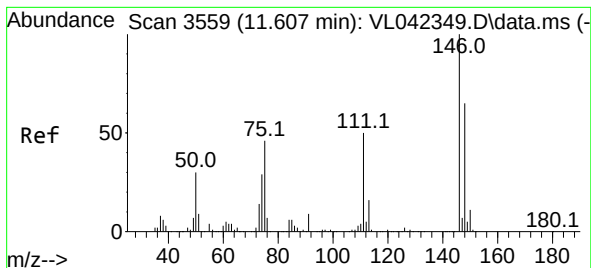


#74
 1,2,4-Trimethylbenzene
 Concen: 8.248 ppbv
 RT: 11.539 min Scan# 3538
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44

Tgt Ion:105 Resp: 565064

Ion	Ratio	Lower	Upper
105	100		
120	47.6	38.1	57.1
91	61.0	48.8	73.2
77	23.7	19.0	28.4





#75

1,3-Dichlorobenzene

Concen: 8.997 ppbv

RT: 11.607 min Scan# 3559

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

Instrument :

MSVOA_1

ClientSampleId :

VSTDICCC010

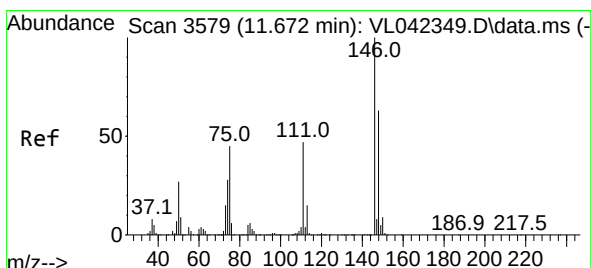
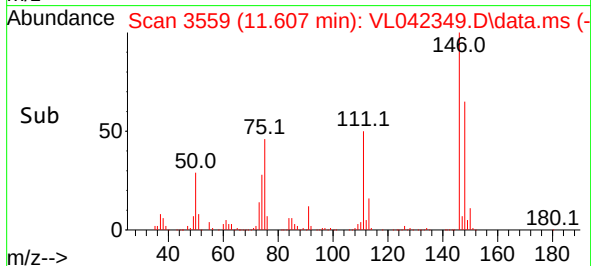
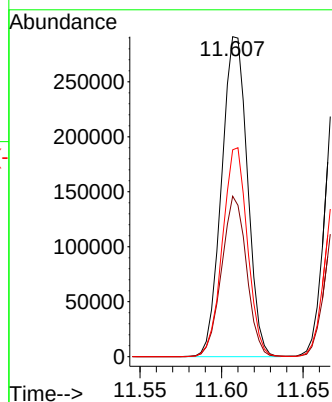
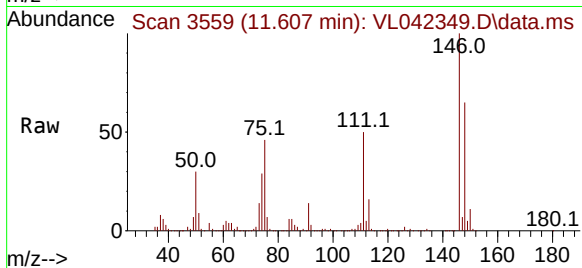
Tgt Ion:146 Resp: 320380

Ion Ratio Lower Upper

146 100

111 48.5 24.3 72.8

148 63.2 31.6 94.8



#76

1,4-Dichlorobenzene

Concen: 8.915 ppbv

RT: 11.672 min Scan# 3579

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

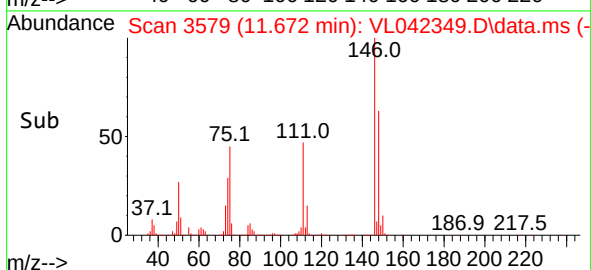
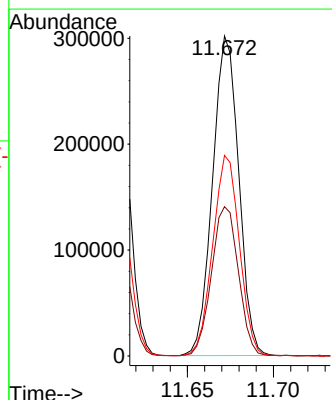
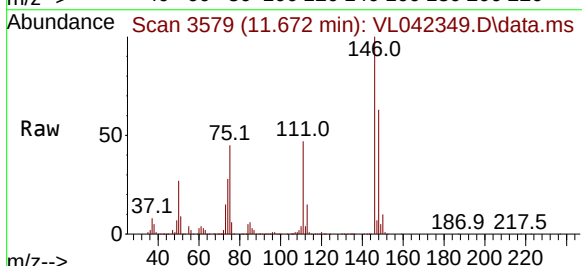
Tgt Ion:146 Resp: 319089

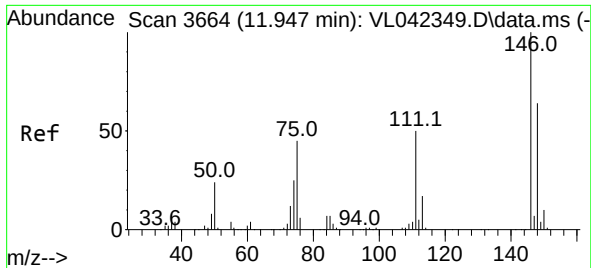
Ion Ratio Lower Upper

146 100

111 48.4 24.2 72.6

148 64.3 32.1 96.5

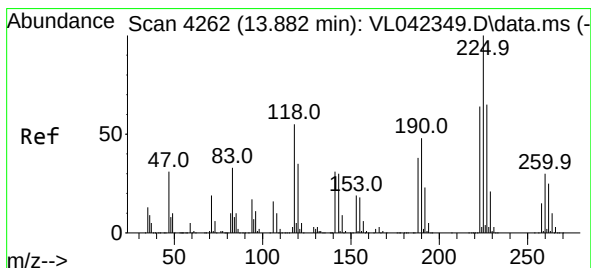
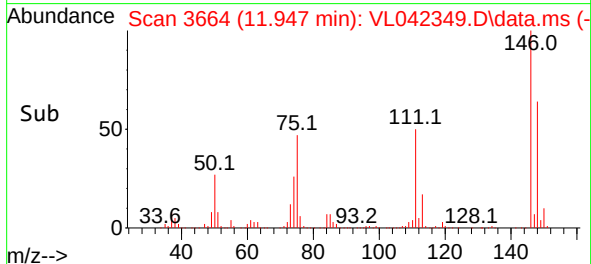
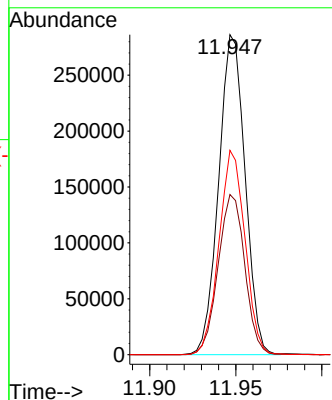
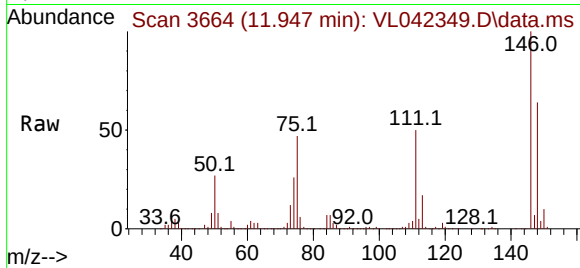




#77
1,2-Dichlorobenzene
Concen: 8.832 ppbv
RT: 11.947 min Scan# 3664
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

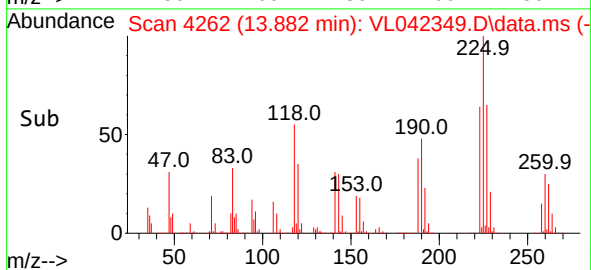
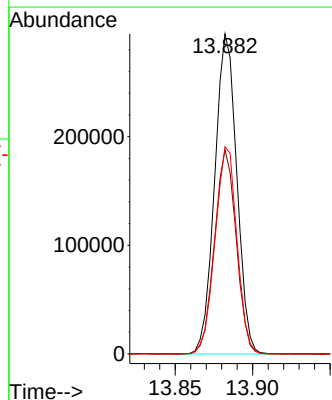
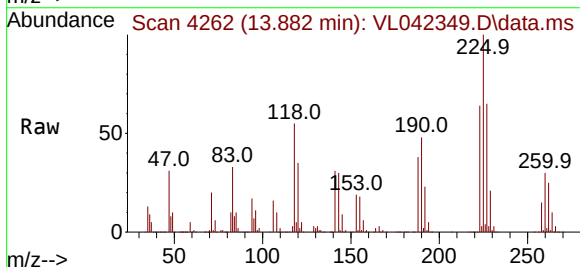
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

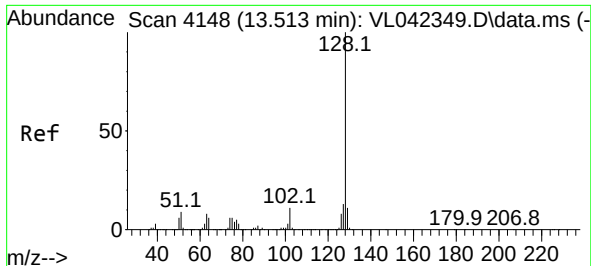
Tgt Ion:146 Resp: 305822
Ion Ratio Lower Upper
146 100
111 50.6 25.3 75.9
148 63.0 31.5 94.5



#78
Hexachloro-1,3-Butadiene
Concen: 8.346 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:225 Resp: 291833
Ion Ratio Lower Upper
225 100
223 62.9 50.3 75.5
227 64.4 51.5 77.3

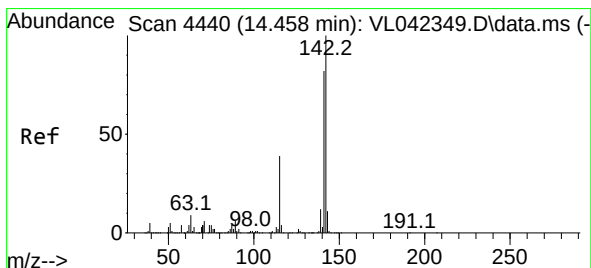
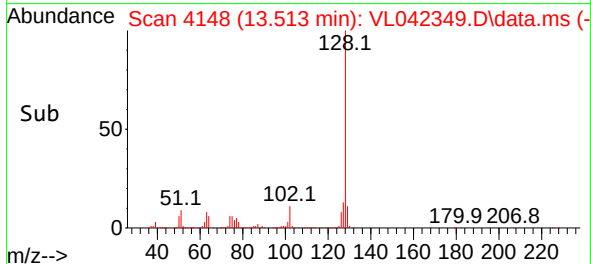
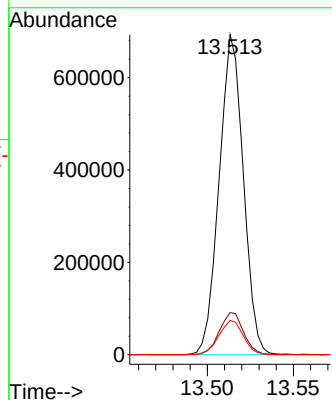
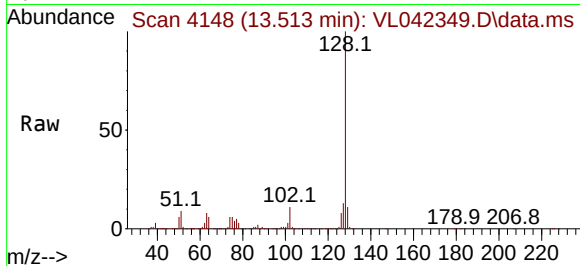




#79
Naphthalene
Concen: 8.271 ppbv
RT: 13.513 min Scan# 4148
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

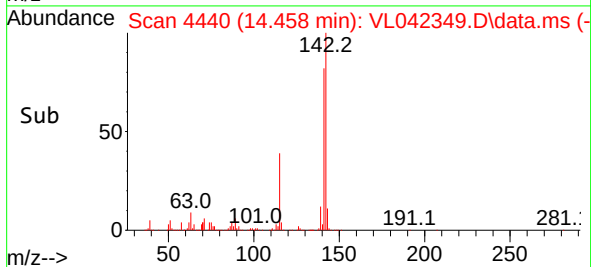
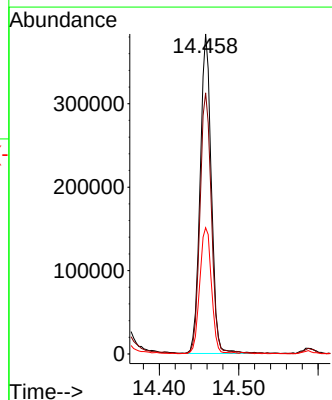
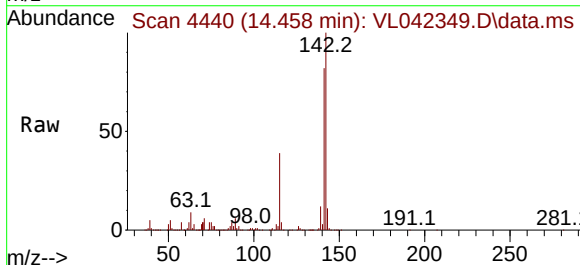
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

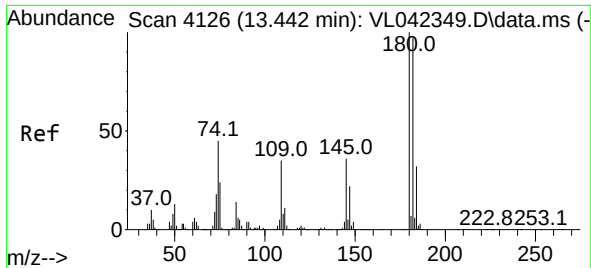
Tgt Ion:128 Resp: 677578
Ion Ratio Lower Upper
128 100
127 13.2 10.6 15.8
129 10.7 8.6 12.8



#80
Naphthalene,2-methyl-
Concen: 8.074 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:142 Resp: 376995
Ion Ratio Lower Upper
142 100
141 83.5 66.8 100.2
115 41.8 33.4 50.2





#81

1,2,4-Trichlorobenzene

Concen: 8.702 ppbv

RT: 13.442 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042349.D

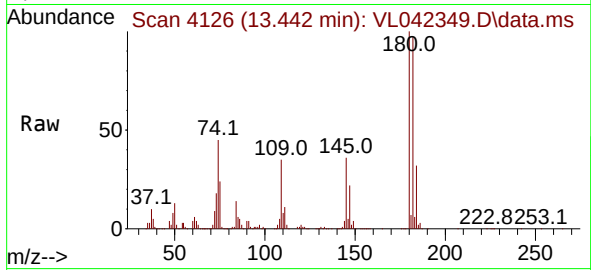
Acq: 17 Apr 2025 09:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010



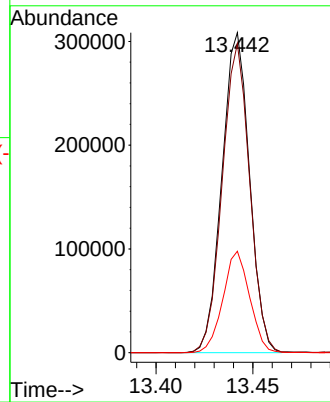
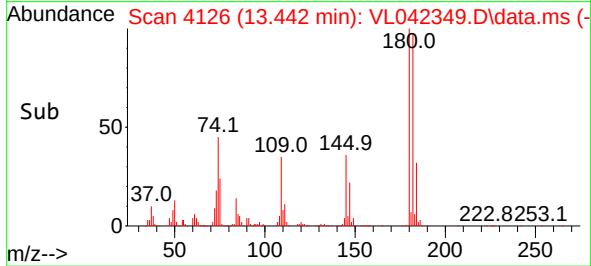
Tgt Ion:180 Resp: 306119

Ion Ratio Lower Upper

180 100

182 96.0 76.8 115.2

184 30.7 24.6 36.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042350.D
 Acq On : 17 Apr 2025 10:17
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Quant Time: Apr 18 01:26:23 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 01:24:29 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	123206	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	355918	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.881	117	335603	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	275715	9.998	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.000%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	45008	2.068	ppbv	95
3) Chlorodifluoromethane	1.476	51	41853	2.019	ppbv	97
4) Chloromethane	1.534	50	17272	2.005	ppbv	93
5) Vinyl Chloride	1.580	62	16979	1.811	ppbv	92
6) Bromomethane	1.667	94	7398	1.821	ppbv #	80
7) Chloroethane	1.706	64	6889	2.031	ppbv	98
8) Dichlorotetrafluoroethane	1.554	85	38955	2.084	ppbv	98
9) Propene	1.483	41	18671	1.978	ppbv	97
10) Heptane	4.978	43	34658	1.364	ppbv #	62
11) Trichlorofluoromethane	1.877	101	43035	2.079	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.140	101	35415	2.092	ppbv	100
13) Ethanol	1.722	45	1417	1.837	ppbv	59
14) Bromoethene	1.780	108	13049	2.045	ppbv #	92
15) Acetone	1.835	43	42949	2.129	ppbv	93
16) 1,3-Butadiene	1.609	39	18110	1.912	ppbv	96
17) tert-Butyl alcohol	2.042	59	51829	2.074	ppbv #	94
18) 1,1-Dichloroethene	2.036	96	15690	1.928	ppbv	87
19) Isopropyl Alcohol	1.887	45	22106	1.973	ppbv #	38
20) Methylene Chloride	2.062	84	14329	1.814	ppbv #	82
21) Allyl Chloride	2.098	41	27340	1.963	ppbv	95
22) trans-1,2-Dichloroethene	2.340	96	18142	2.015	ppbv	97
23) Vinyl Acetate	2.463	43	18454	2.260	ppbv #	91
24) 1,1-Dichloroethane	2.411	63	34077	1.993	ppbv	96
25) Ethyl Acetate	2.835	43	101467	2.040	ppbv	99
26) Hexane	2.826	57	40046	1.990	ppbv	99
27) Carbon Disulfide	2.149	76	43975	2.041	ppbv #	64
28) Methyl tert-Butyl Ether	2.441	73	27905	2.116	ppbv	97
29) Chloroform	2.848	83	58946	2.072	ppbv	100
30) Cyclohexane	3.858	84	33195	2.048	ppbv	94
31) cis-1,2-Dichloroethene	2.722	61	39249	2.051	ppbv	98
32) 1,1,1-Trichloroethane	3.366	97	61442	2.014	ppbv	99
34) 2-Butanone	2.560	43	58249	2.069	ppbv	100
35) Carbon Tetrachloride	3.761	117	60291	1.872	ppbv	88
36) Benzene	3.658	78	79814	2.079	ppbv	98
37) 1,2-Dichloroethane	3.217	62	47398	2.057	ppbv	100
38) Trichloroethene	4.544	130	16602	0.986	ppbv	94
39) 1,2-Dichloropropane	4.315	63	28806	2.012	ppbv	96
40) 1,4-Dioxane	4.593	88	16026	2.067	ppbv #	81
41) Tetrahydrofuran	3.059	42	33298	2.047	ppbv	98
42) Bromodichloromethane	4.489	83	64941	2.025	ppbv	97
43) Methyl Methacrylate	4.881	69	35256	2.046	ppbv	97
44) 2,2,4-Trimethylpentane	4.645	57	139641	2.103	ppbv	99
45) t-1,3-Dichloropropene	6.415	75	36265	2.050	ppbv	94

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042350.D
 Acq On : 17 Apr 2025 10:17
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

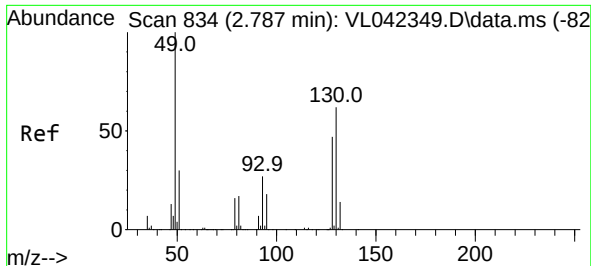
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 01:24:29 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.600	75	25569	1.183	ppbv	90
47) 1,1,2-Trichloroethane	6.590	97	29879	2.049	ppbv	88
48) Dibromochloromethane	7.389	129	53069	2.061	ppbv	100
49) Bromoform	9.483	173	48069	2.135	ppbv	97
50) 4-Methyl-2-Pentanone	5.758	43	102182	2.180	ppbv	99
51) 2-Hexanone	7.441	43	100443	2.375	ppbv	98
52) Tetrachloroethene	8.228	164	27854	1.877	ppbv	96
53) Toluene	6.933	91	97493	2.116	ppbv	98
54) 1,2-Dibromoethane	7.655	107	43153	2.076	ppbv	87
56) 1,1,1,2-Tetrachloroethane	8.924	131	42601	2.097	ppbv	95
57) Chlorobenzene	8.924	112	71685	2.054	ppbv	98
58) Ethyl Benzene	9.357	91	138810	2.088	ppbv	98
59) m/p-Xylene	9.551	91	103886	1.934	ppbv #	32
60) o-Xylene	9.963	91	111972	2.076	ppbv	98
61) Styrene	9.872	104	54229	2.106	ppbv	98
62) Isopropylbenzene	10.539	105	163716	2.067	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.963	83	64952	1.853	ppbv	99
64) n-propylbenzene	10.989	120	40956	2.058	ppbv	96
65) tert-Butylbenzene	11.532	119	155401	2.135	ppbv	92
66) Benzyl Chloride	11.616	91	17300	2.163	ppbv	98
67) sec-Butylbenzene	11.769	105	218327	2.156	ppbv	100
69) p-Isopropyltoluene	11.927	119	188657	2.145	ppbv	99
70) n-Butylbenzene	12.283	91	198221	2.164	ppbv	99
71) 2-Chlorotoluene	10.901	91	128858	2.075	ppbv	98
72) 4-Ethyltoluene	11.124	105	137872	2.091	ppbv	97
73) 1,3,5-Trimethylbenzene	11.205	105	123580	2.123	ppbv	98
74) 1,2,4-Trimethylbenzene	11.539	105	145510	2.140	ppbv	92
75) 1,3-Dichlorobenzene	11.607	146	75082	2.124	ppbv	98
76) 1,4-Dichlorobenzene	11.671	146	75323	2.120	ppbv	99
77) 1,2-Dichlorobenzene	11.947	146	74786	2.176	ppbv	98
78) Hexachloro-1,3-Butadiene	13.882	225	76158	2.194	ppbv	100
79) Naphthalene	13.513	128	195233	2.401	ppbv	99
80) Naphthalene,2-methyl-	14.458	142	119262	2.574	ppbv	99
81) 1,2,4-Trichlorobenzene	13.442	180	82156	2.353	ppbv	99

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

Quant Time: Apr 18 01:26:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

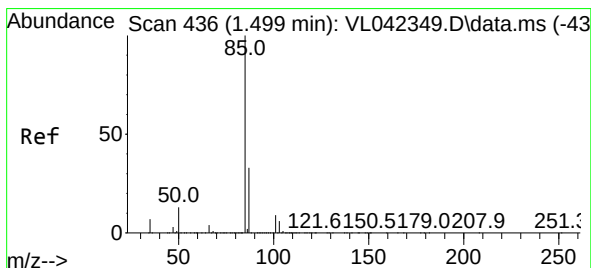
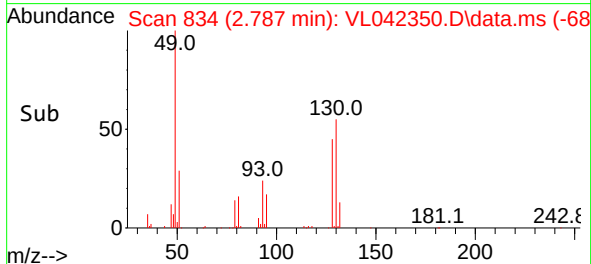
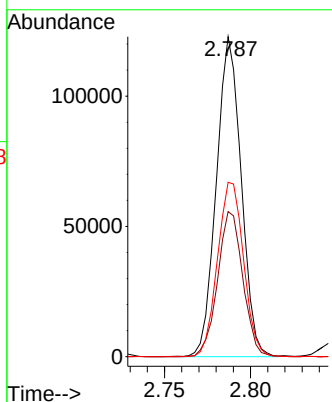
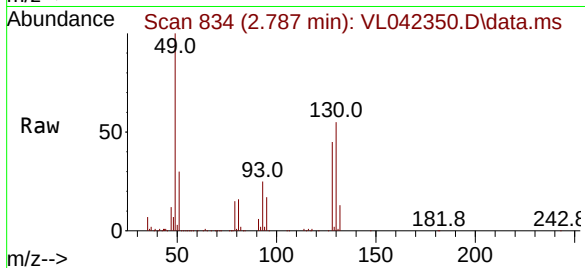




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 834
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

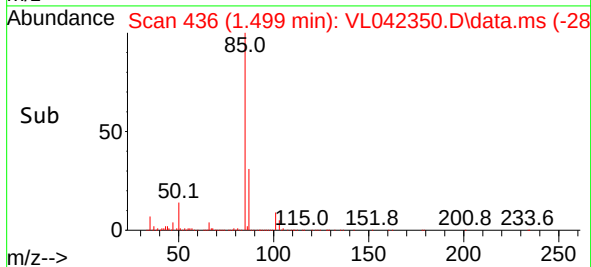
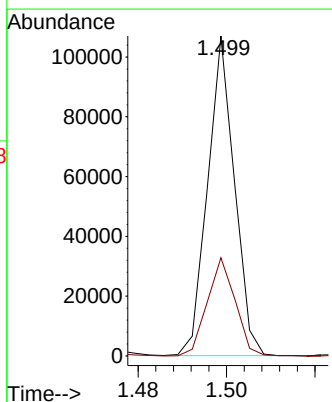
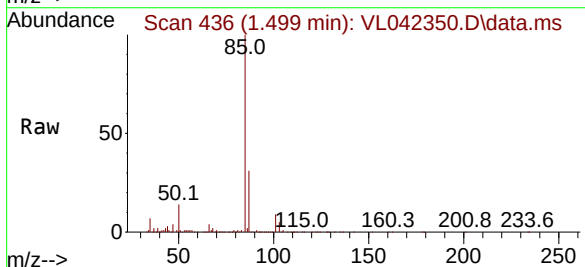
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

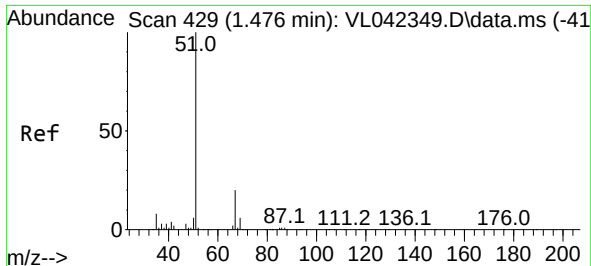
Tgt Ion: 49 Resp: 123206
Ion Ratio Lower Upper
49 100
128 46.2 22.8 68.4
130 57.3 29.3 88.0



#2
Dichlorodifluoromethane
Concen: 2.068 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 85 Resp: 45008
Ion Ratio Lower Upper
85 100
87 30.6 26.6 39.8

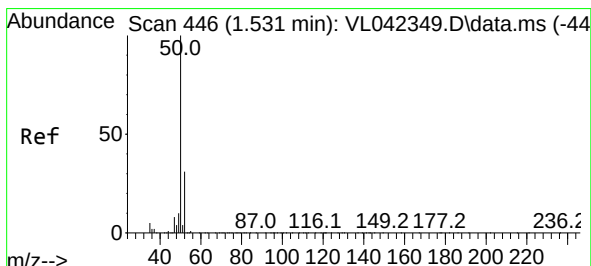
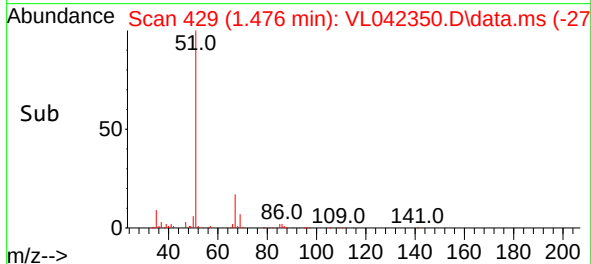
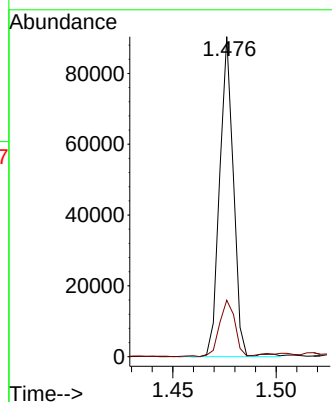
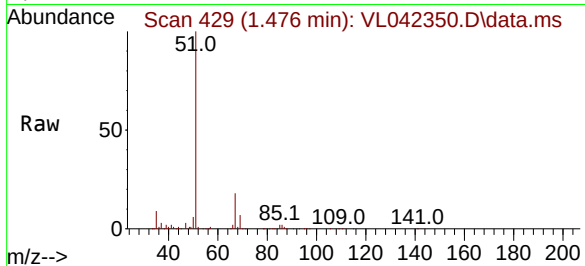




#3
Chlorodifluoromethane
Concen: 2.019 ppbv
RT: 1.476 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

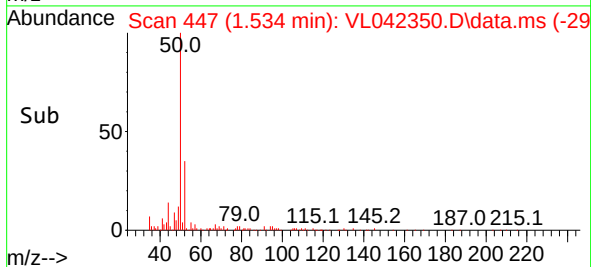
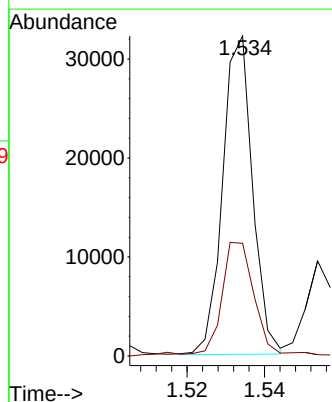
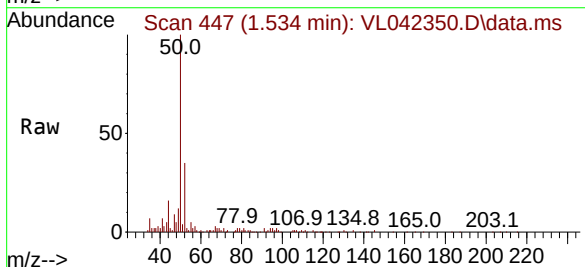
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

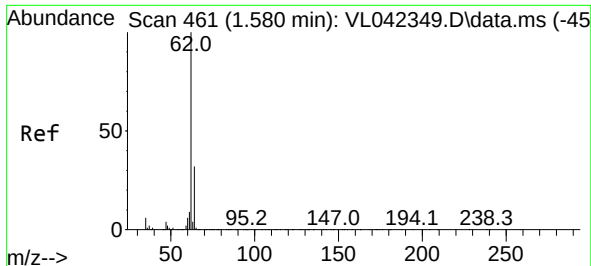
Tgt Ion: 51 Resp: 41853
Ion Ratio Lower Upper
51 100
67 21.7 16.2 24.4



#4
Chloromethane
Concen: 2.005 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 50 Resp: 17272
Ion Ratio Lower Upper
50 100
52 34.9 24.7 37.1

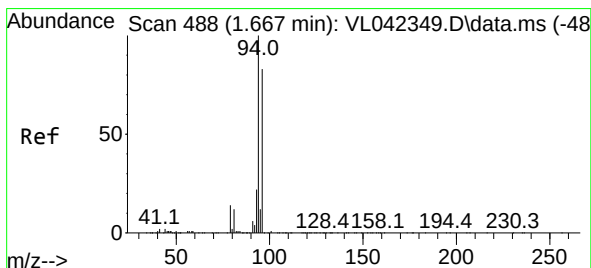
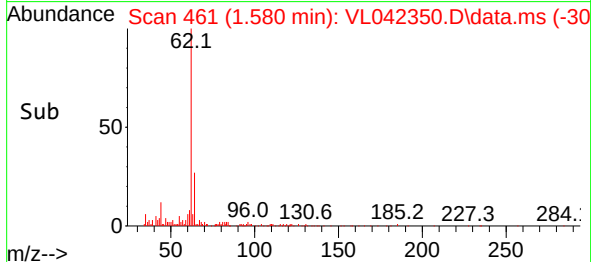
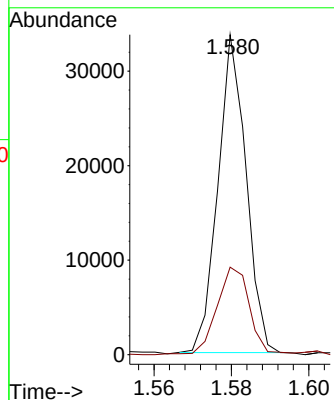
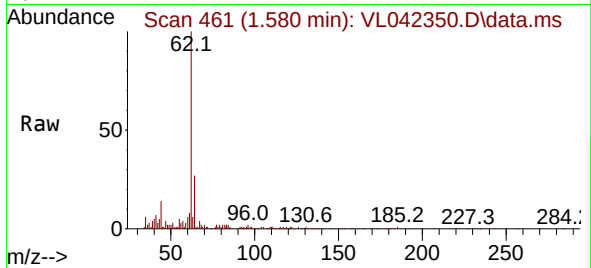




#5
 Vinyl Chloride
 Concen: 1.811 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. -0.000 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

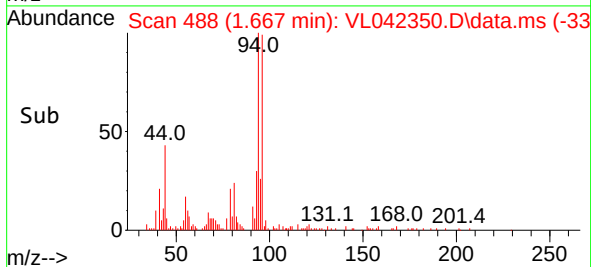
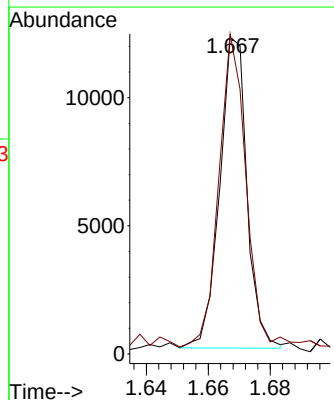
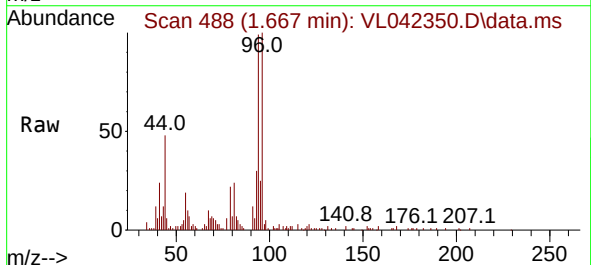
Instrument :
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 ClientSampleId :
 VSTDIC002

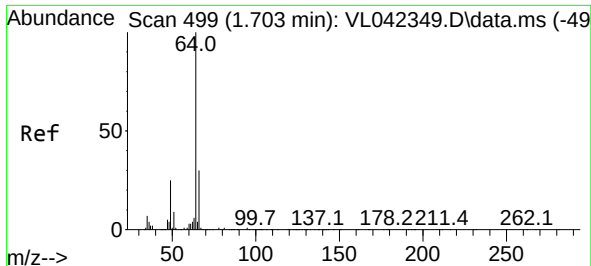
Tgt Ion: 62 Resp: 16979
 Ion Ratio Lower Upper
 62 100
 64 27.2 25.4 38.0



#6
 Bromomethane
 Concen: 1.821 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. -0.000 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

Tgt Ion: 94 Resp: 7398
 Ion Ratio Lower Upper
 94 100
 96 100.8 66.2 99.2#

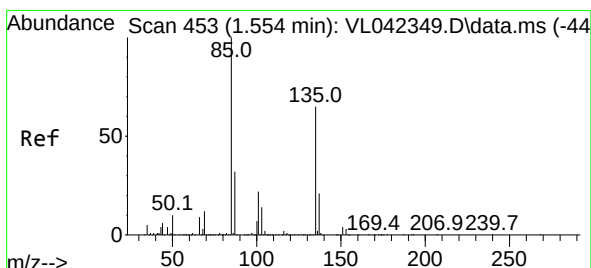
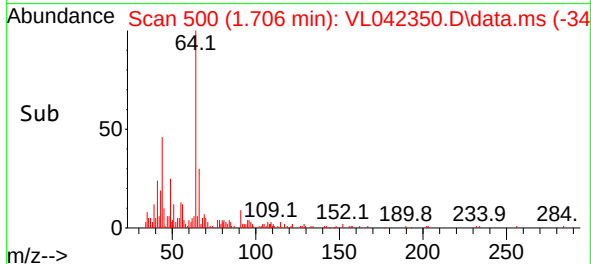
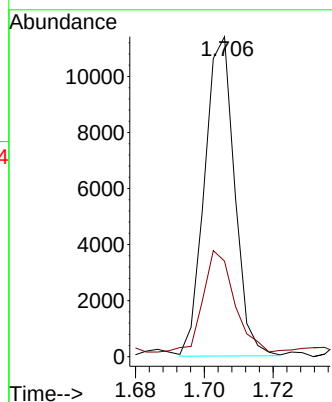
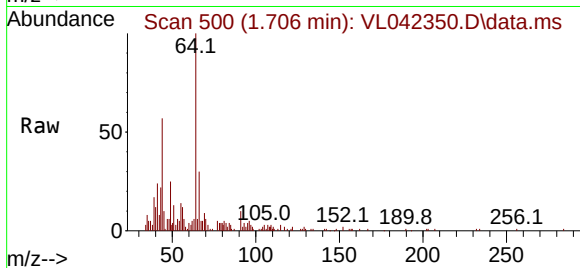




#7
Chloroethane
Concen: 2.031 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

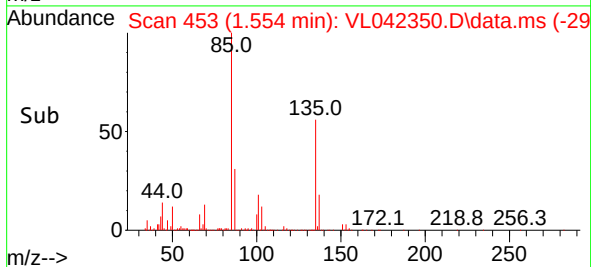
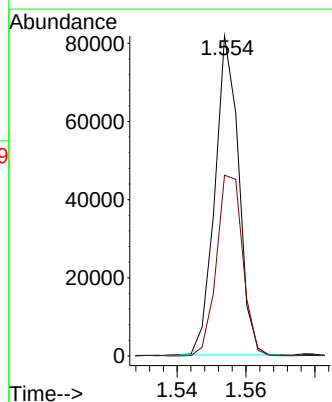
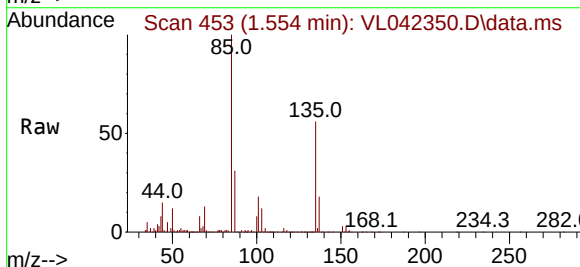
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

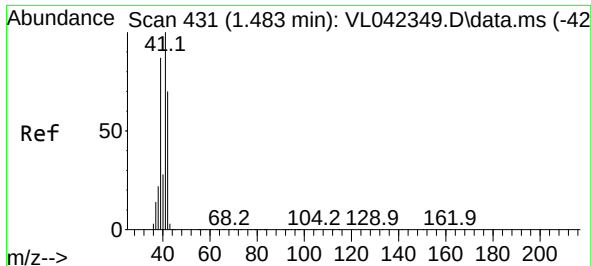
Tgt Ion: 64 Resp: 6889
Ion Ratio Lower Upper
64 100
66 29.8 24.6 37.0



#8
Dichlorotetrafluoroethane
Concen: 2.084 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 85 Resp: 38955
Ion Ratio Lower Upper
85 100
135 63.3 52.2 78.2





#9

Propene

Concen: 1.978 ppbv

RT: 1.483 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

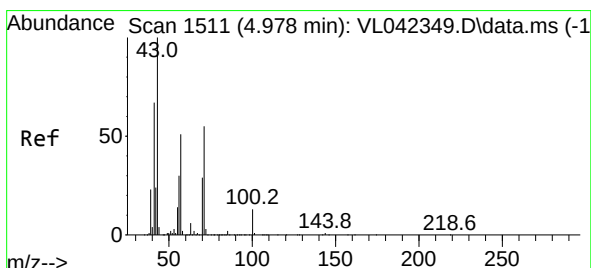
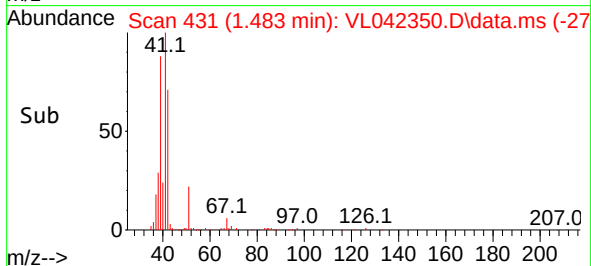
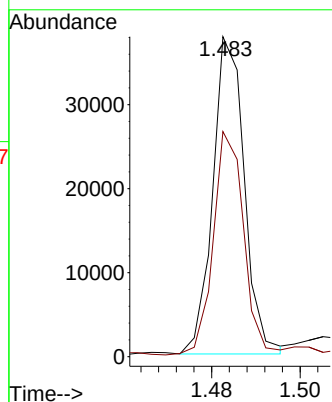
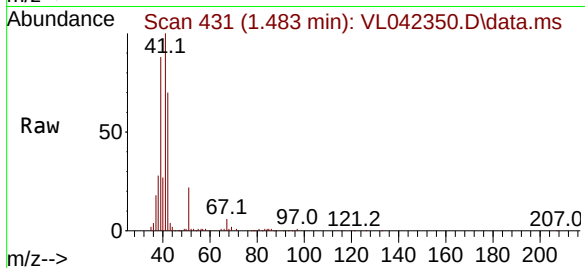
VSTDICC002

Tgt Ion: 41 Resp: 18671

Ion Ratio Lower Upper

41 100

42 72.7 56.2 84.4



#10

Heptane

Concen: 1.364 ppbv

RT: 4.978 min Scan# 1511

Delta R.T. -0.000 min

Lab File: VL042350.D

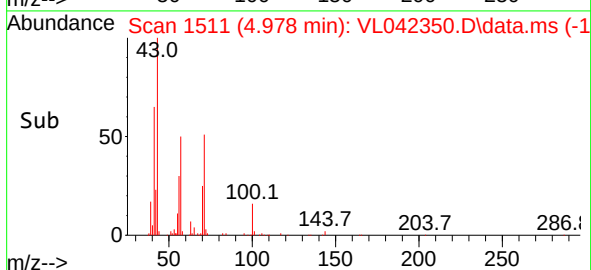
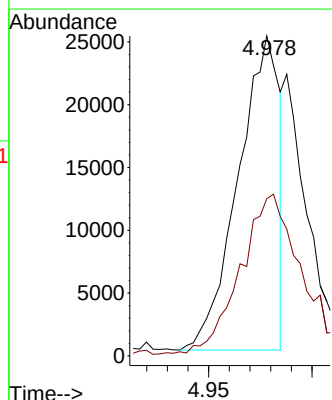
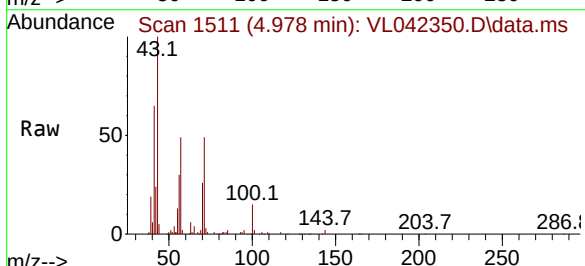
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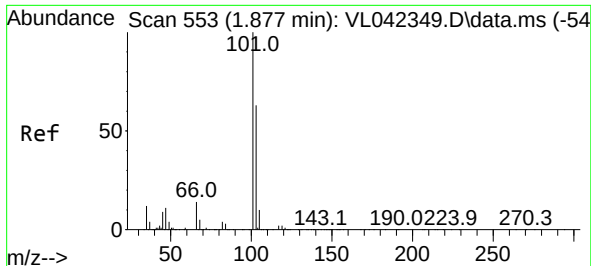
Tgt Ion: 43 Resp: 34658

Ion Ratio Lower Upper

43 100

57 75.9 39.9 59.9#

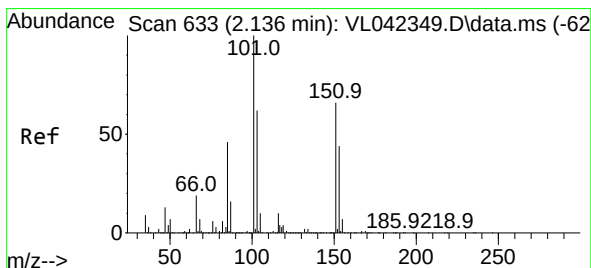
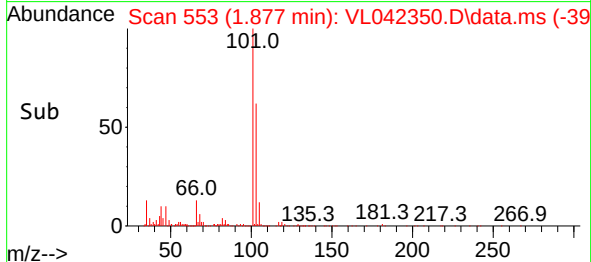
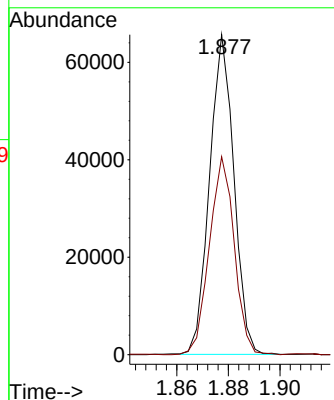
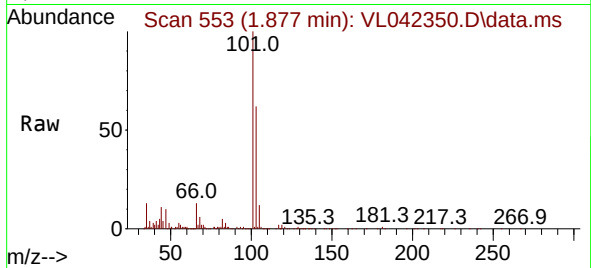




#11
 Trichlorofluoromethane
 Concen: 2.079 ppbv
 RT: 1.877 min Scan# 553
 Delta R.T. -0.000 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

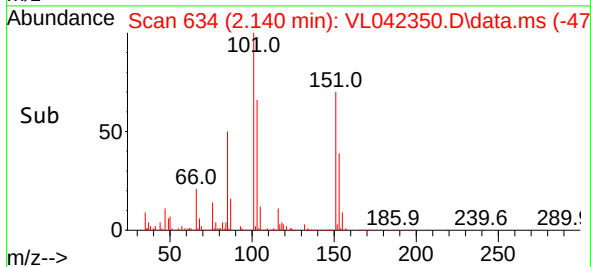
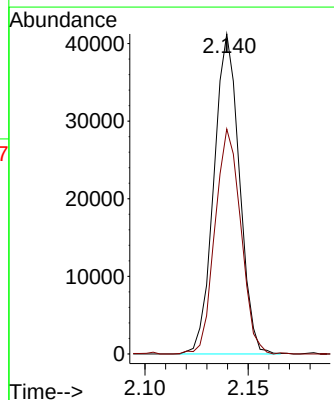
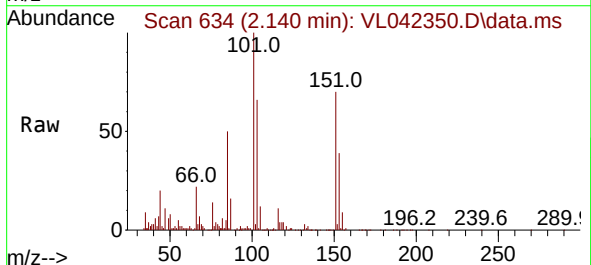
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

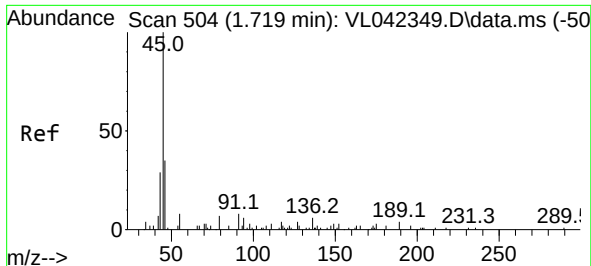
Tgt Ion:101 Resp: 43035
 Ion Ratio Lower Upper
 101 100
 103 61.9 50.1 75.1



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 2.092 ppbv
 RT: 2.140 min Scan# 634
 Delta R.T. 0.003 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

Tgt Ion:101 Resp: 35415
 Ion Ratio Lower Upper
 101 100
 151 71.5 57.0 85.6

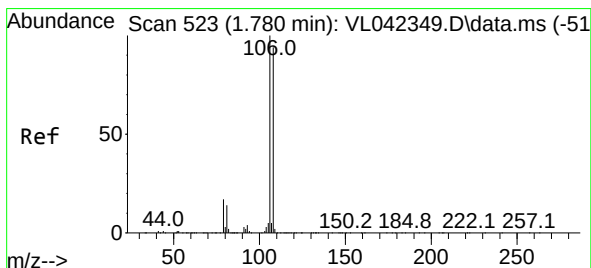
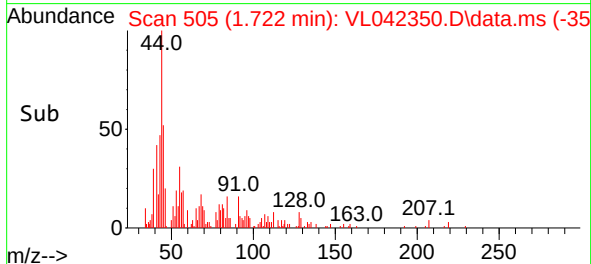
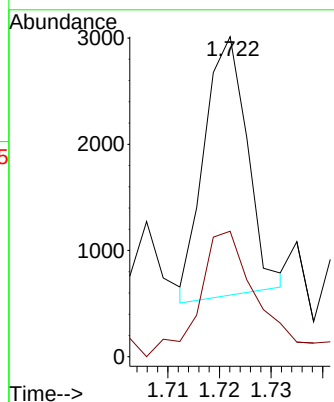
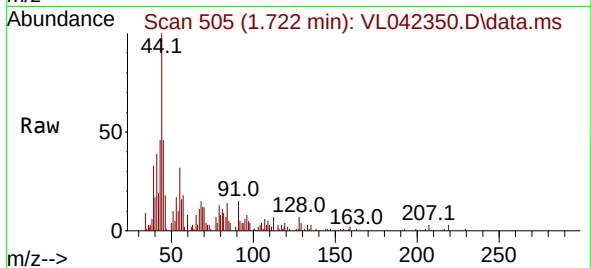




#13
Ethanol
Concen: 1.837 ppbv
RT: 1.722 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

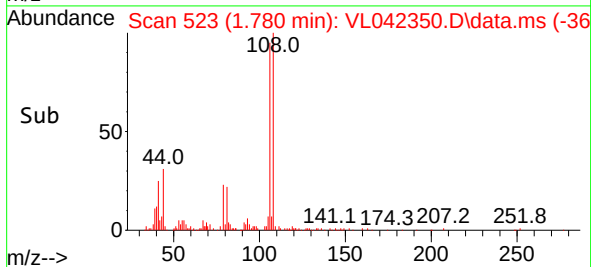
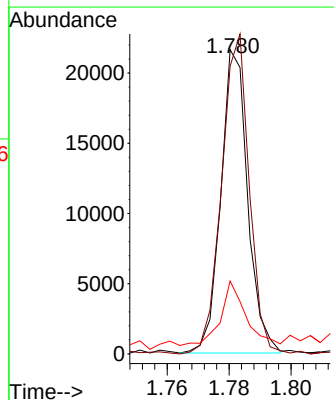
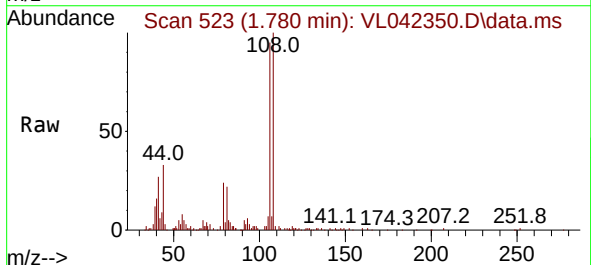
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

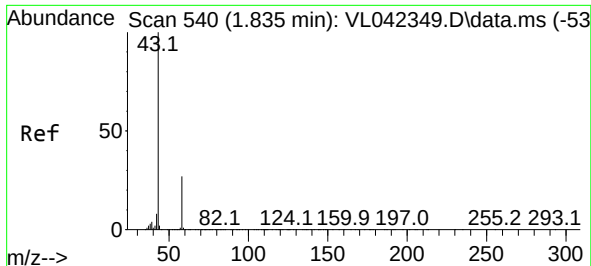
Tgt Ion: 45 Resp: 1417
Ion Ratio Lower Upper
45 100
46 84.1 21.9 87.7



#14
Bromoethene
Concen: 2.045 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:108 Resp: 13049
Ion Ratio Lower Upper
108 100
106 110.2 85.9 128.9
79 34.0 13.9 20.9#

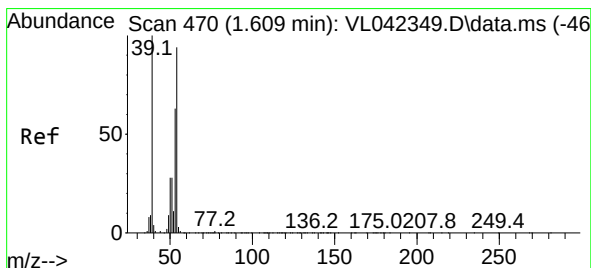
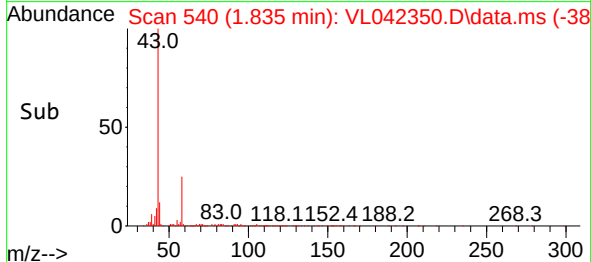
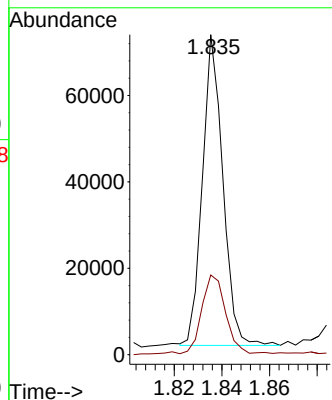
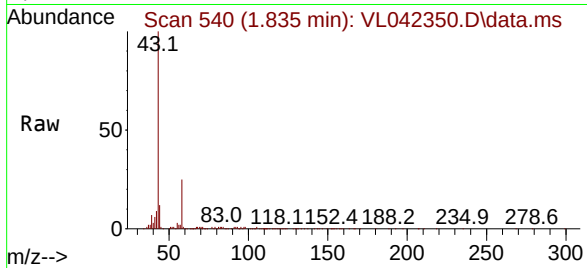




#15
Acetone
Concen: 2.129 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

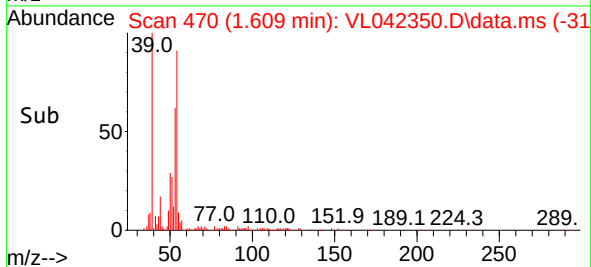
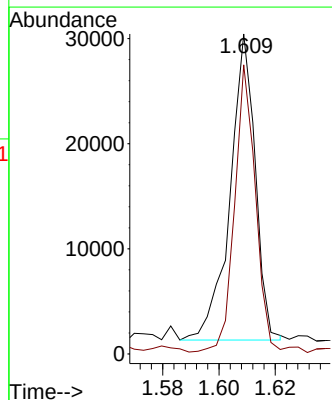
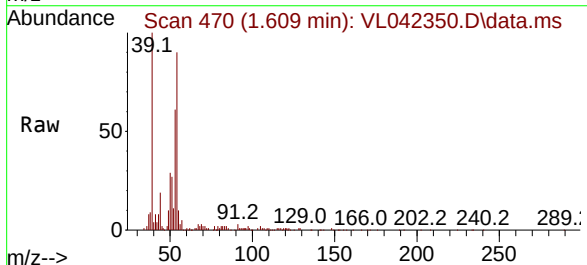
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

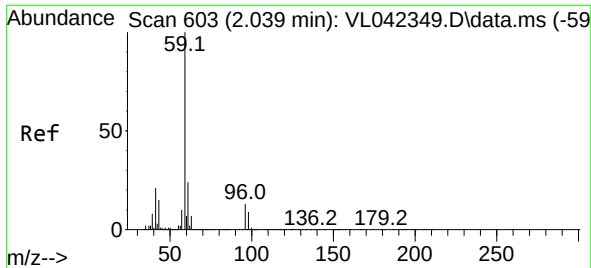
Tgt Ion: 43 Resp: 42949
Ion Ratio Lower Upper
43 100
58 31.4 22.4 33.6



#16
1,3-Butadiene
Concen: 1.912 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 39 Resp: 18110
Ion Ratio Lower Upper
39 100
54 77.2 64.9 97.3

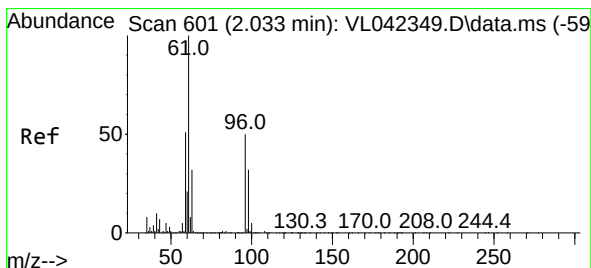
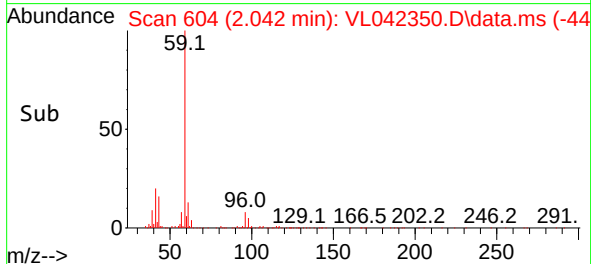
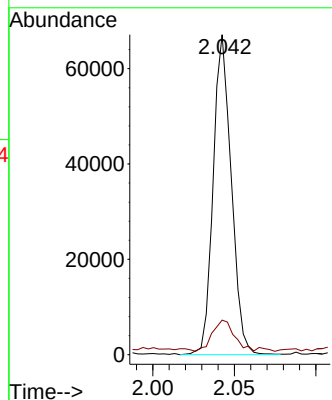
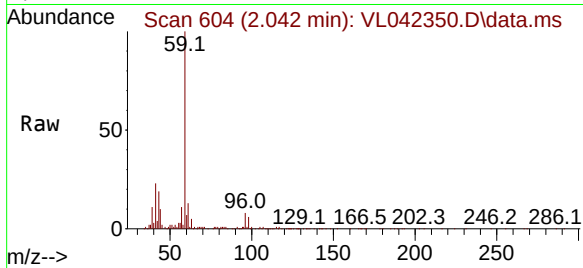




#17
tert-Butyl alcohol
Concen: 2.074 ppbv
RT: 2.042 min Scan# 603
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

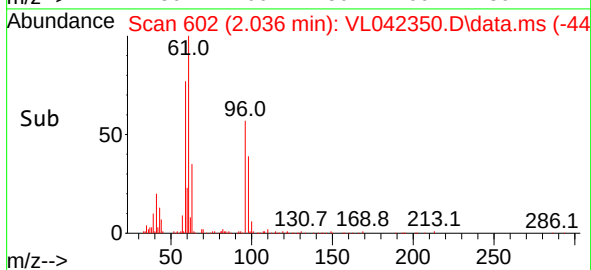
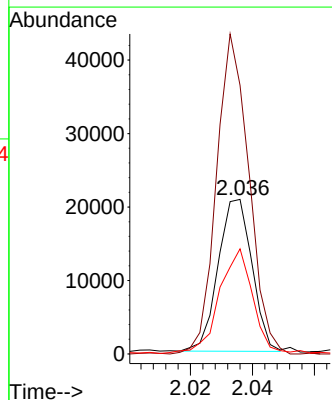
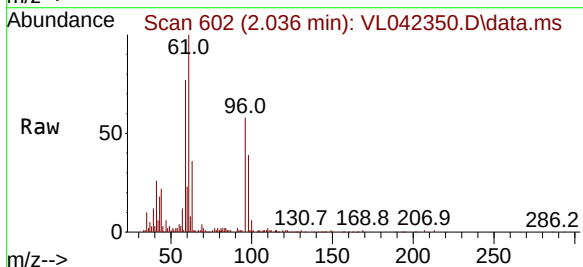
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

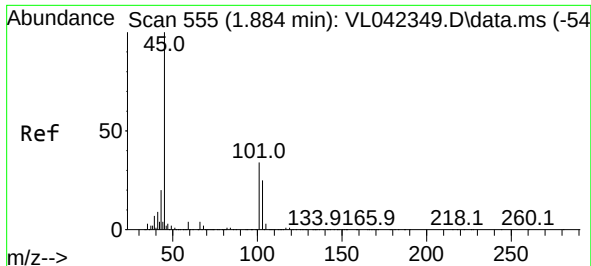
Tgt Ion: 59 Resp: 51829
Ion Ratio Lower Upper
59 100
57 13.2 8.7 13.1#



#18
1,1-Dichloroethene
Concen: 1.928 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 96 Resp: 15690
Ion Ratio Lower Upper
96 100
61 176.1 160.2 240.2
98 67.2 51.0 76.4

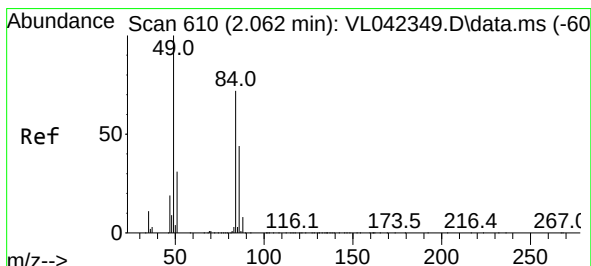
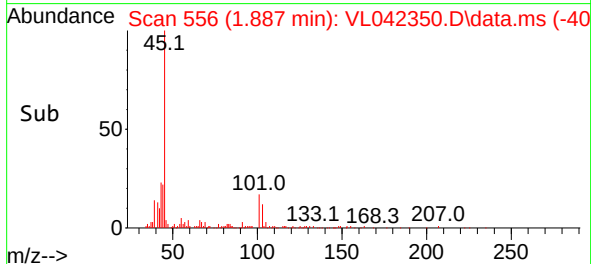
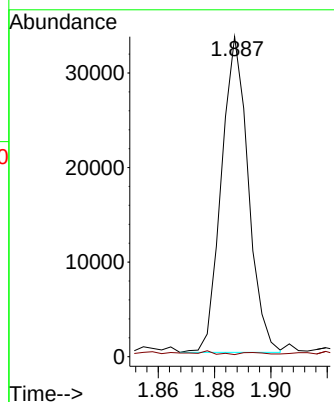
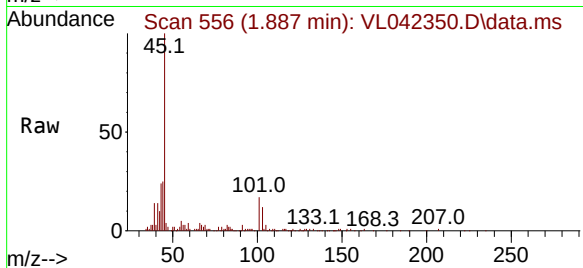




#19
Isopropyl Alcohol
Concen: 1.973 ppbv
RT: 1.887 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

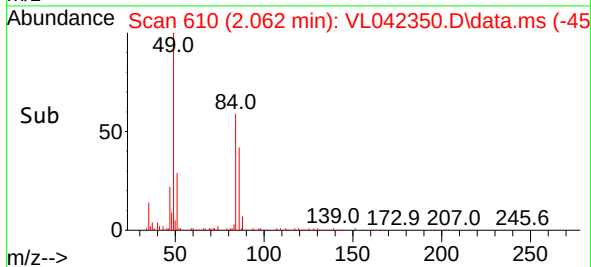
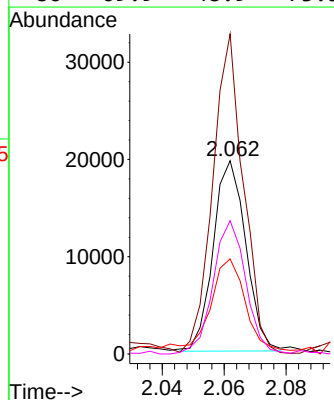
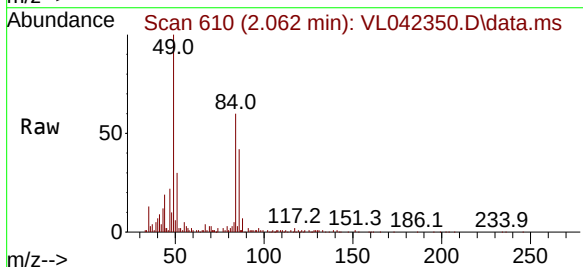
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

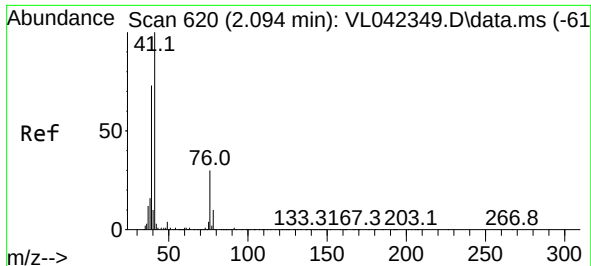
Tgt Ion: 45 Resp: 22106
Ion Ratio Lower Upper
45 100
58 3.6 34.5 51.7#



#20
Methylene Chloride
Concen: 1.814 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 84 Resp: 14329
Ion Ratio Lower Upper
84 100
49 169.1 111.6 167.4#
51 47.9 35.1 52.7
86 69.9 48.9 73.3

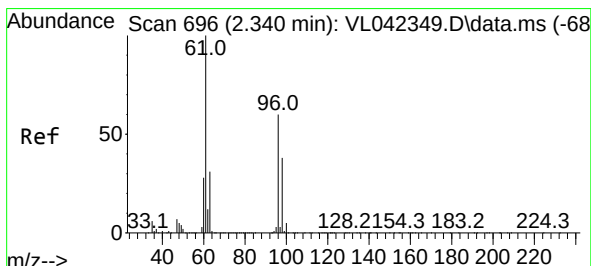
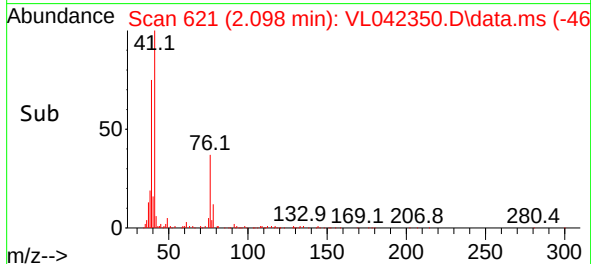
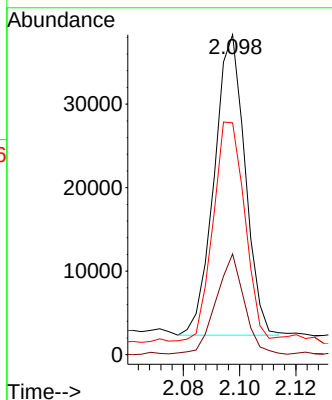
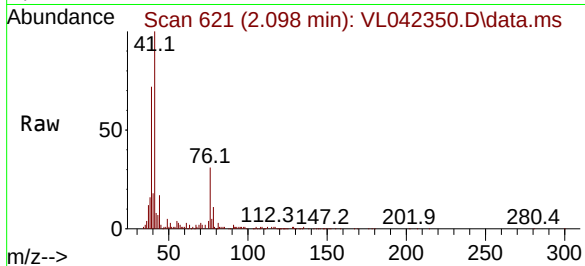




#21
 Allyl Chloride
 Concen: 1.963 ppbv
 RT: 2.098 min Scan# 61
 Delta R.T. 0.003 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

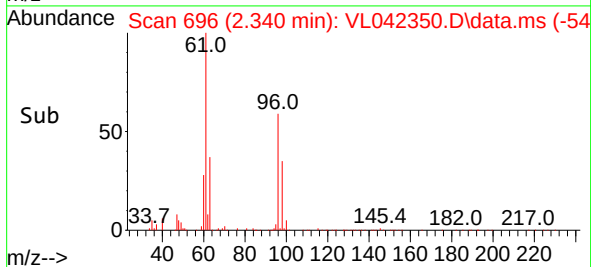
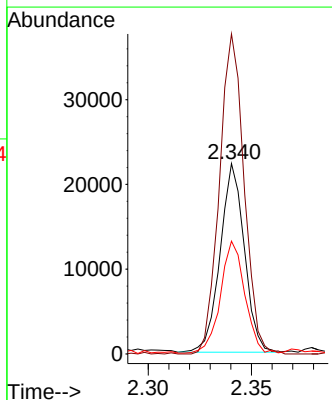
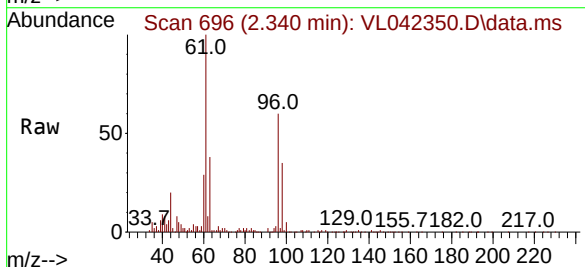
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

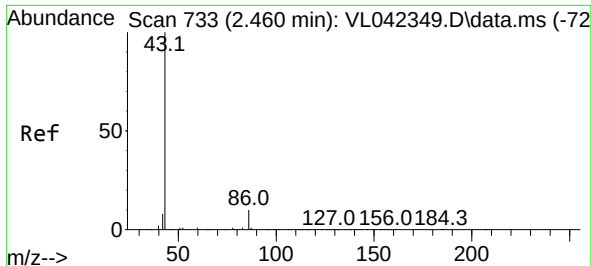
Tgt Ion: 41 Resp: 27340
 Ion Ratio Lower Upper
 41 100
 76 31.9 24.8 37.2
 39 81.2 60.6 90.8



#22
 trans-1,2-Dichloroethene
 Concen: 2.015 ppbv
 RT: 2.340 min Scan# 696
 Delta R.T. -0.000 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

Tgt Ion: 96 Resp: 18142
 Ion Ratio Lower Upper
 96 100
 61 169.6 133.7 200.5
 98 59.3 50.3 75.5

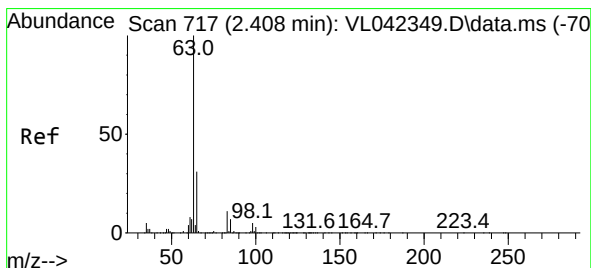
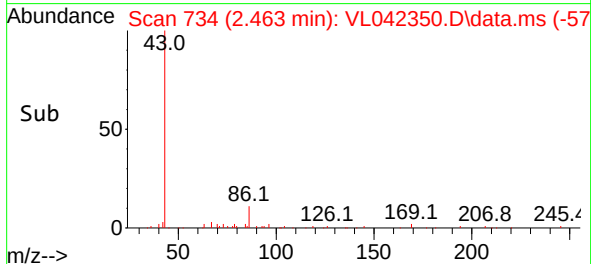
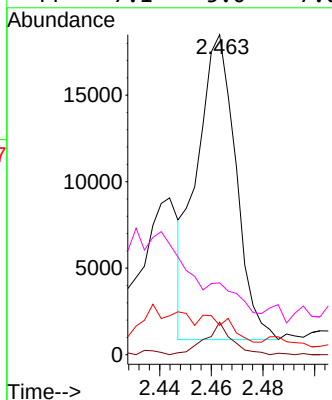
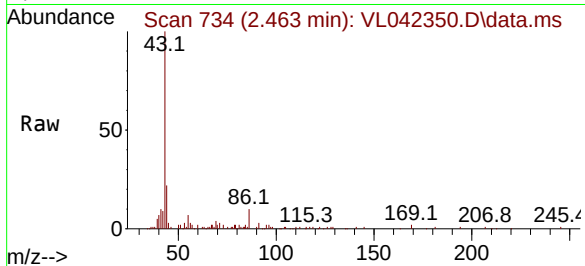




#23
 Vinyl Acetate
 Concen: 2.260 ppbv
 RT: 2.463 min Scan# 718
 Delta R.T. 0.003 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

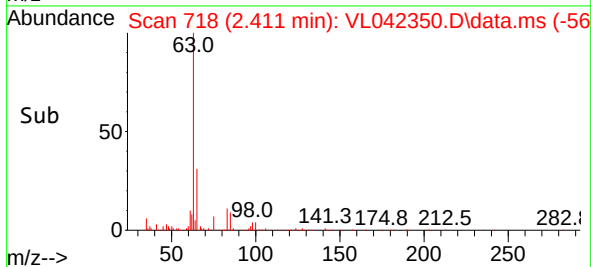
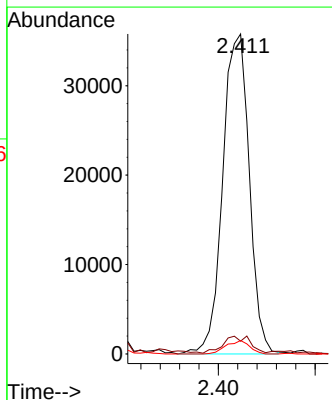
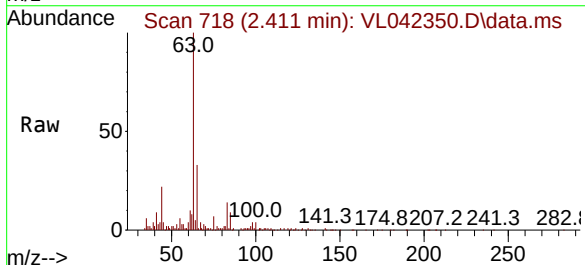
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

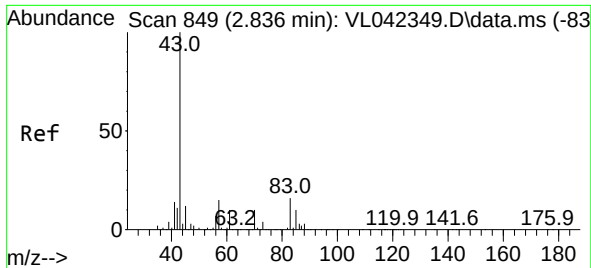
Tgt Ion:	43	Resp:	18454
Ion	Ratio	Lower	Upper
43	100		
86	10.2	6.5	9.7#
42	3.7	7.8	11.8#
44	7.1	5.0	7.6



#24
 1,1-Dichloroethane
 Concen: 1.993 ppbv
 RT: 2.411 min Scan# 718
 Delta R.T. 0.003 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

Tgt Ion:	63	Resp:	34077
Ion	Ratio	Lower	Upper
63	100		
98	3.1	2.3	6.8
100	4.2	1.6	4.8



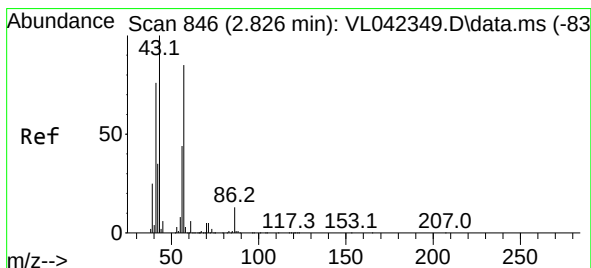
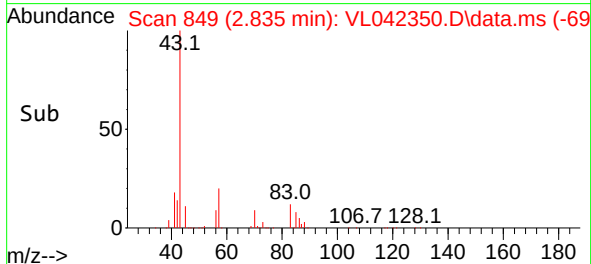
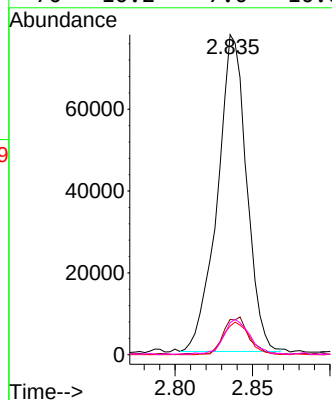
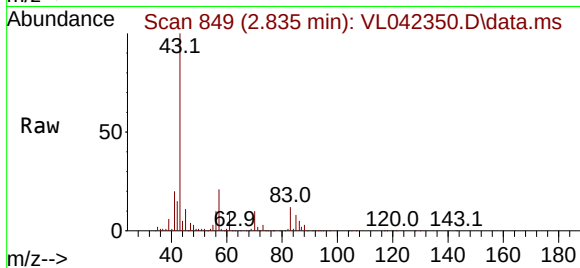


#25
Ethyl Acetate
Concen: 2.040 ppbv
RT: 2.835 min Scan# 849
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_1
ClientSampleId :
VSTDICC002

Tgt Ion: 43 Resp: 101467

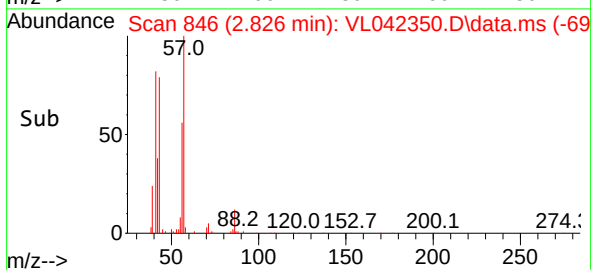
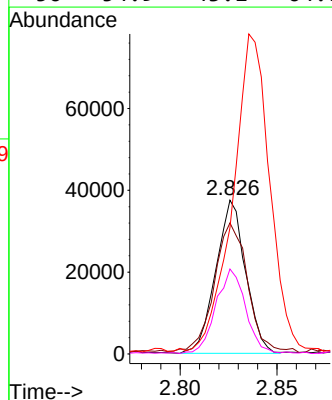
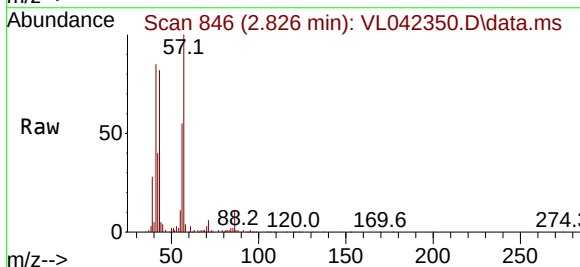
Ion	Ratio	Lower	Upper
43	100		
45	10.4	8.3	12.5
61	9.2	7.3	10.9
70	10.2	7.0	10.6

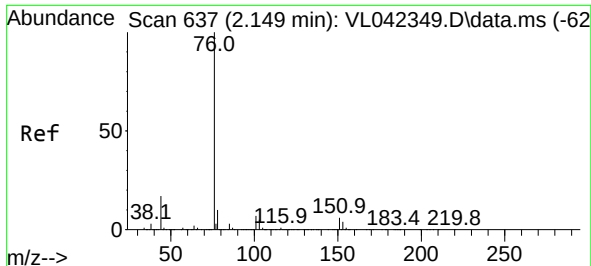


#26
Hexane
Concen: 1.990 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 57 Resp: 40046

Ion	Ratio	Lower	Upper
57	100		
41	94.1	77.9	116.9
43	260.7	208.4	312.6
56	54.9	43.1	64.7

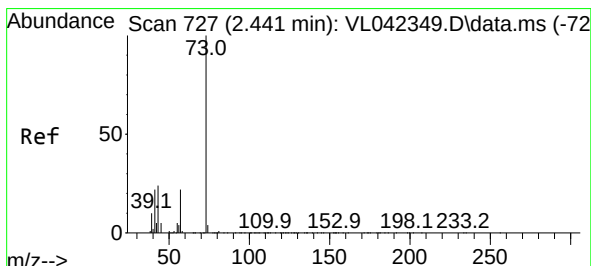
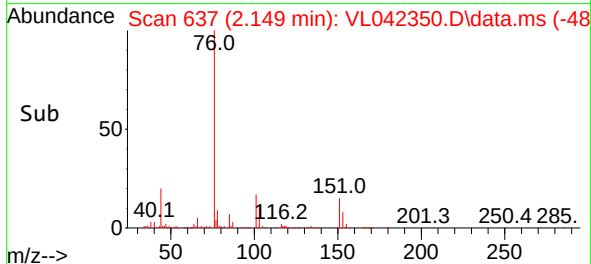
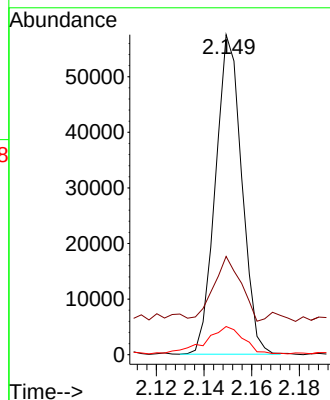
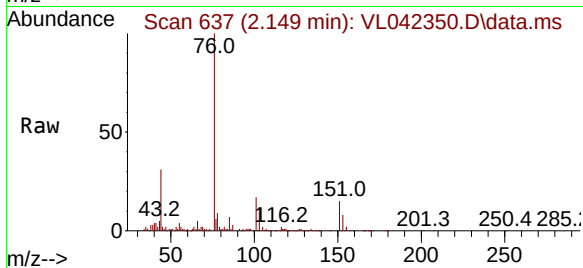




#27
Carbon Disulfide
Concen: 2.041 ppbv
RT: 2.149 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

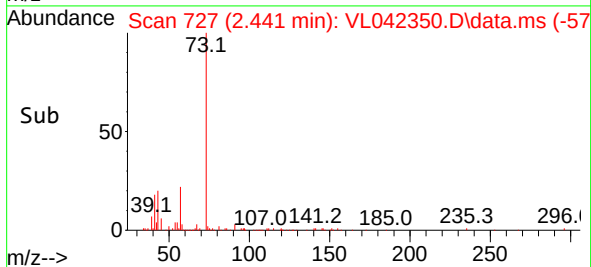
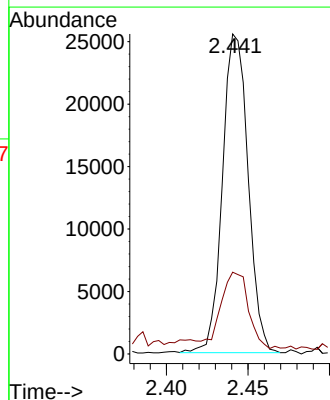
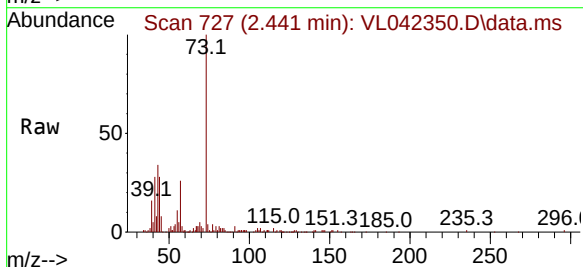
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

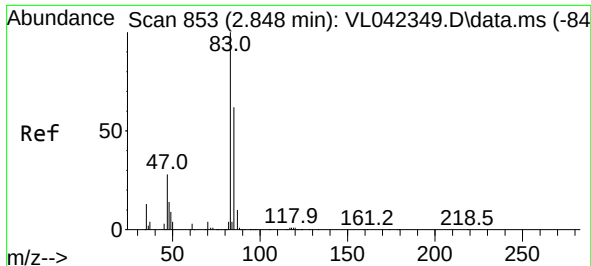
Tgt Ion: 76 Resp: 43975
Ion Ratio Lower Upper
76 100
44 44.3 15.5 23.3#
78 13.6 9.3 13.9



#28
Methyl tert-Butyl Ether
Concen: 2.116 ppbv
RT: 2.441 min Scan# 727
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 73 Resp: 27905
Ion Ratio Lower Upper
73 100
57 28.1 21.3 31.9





#29

Chloroform

Concen: 2.072 ppbv

RT: 2.848 min Scan# 81

Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

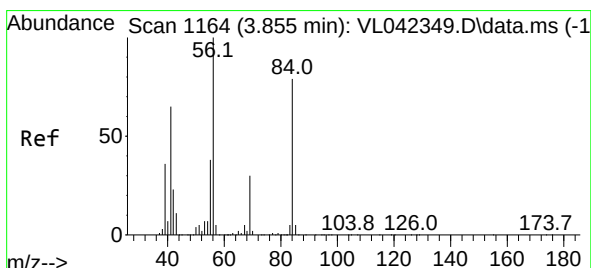
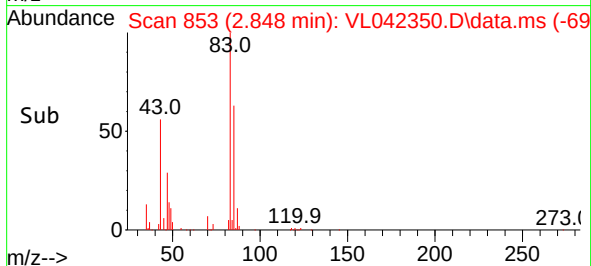
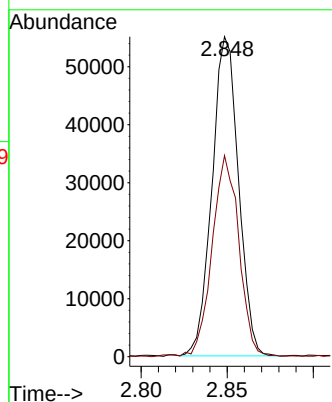
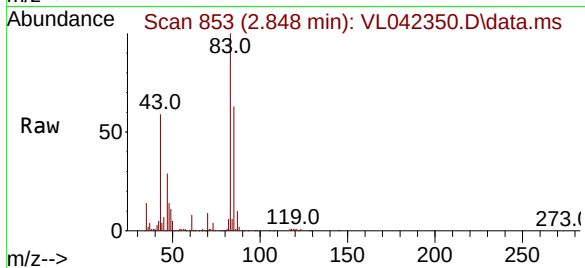
VSTDICC002

Tgt Ion: 83 Resp: 58946

Ion Ratio Lower Upper

83 100

85 62.9 50.0 75.0



#30

Cyclohexane

Concen: 2.048 ppbv

RT: 3.858 min Scan# 1165

Delta R.T. 0.003 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

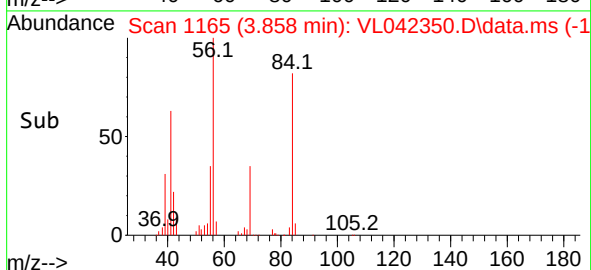
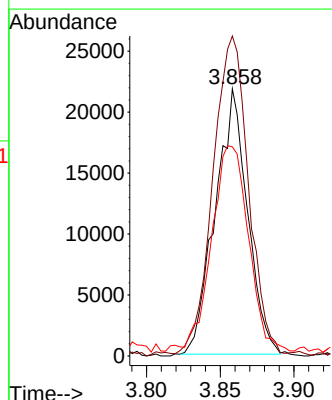
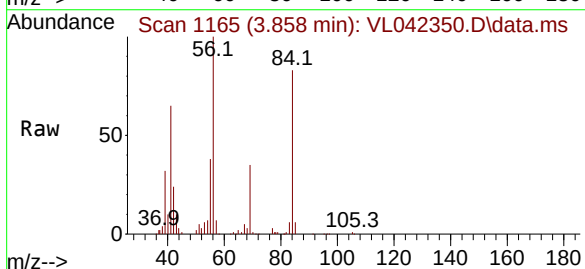
Tgt Ion: 84 Resp: 33195

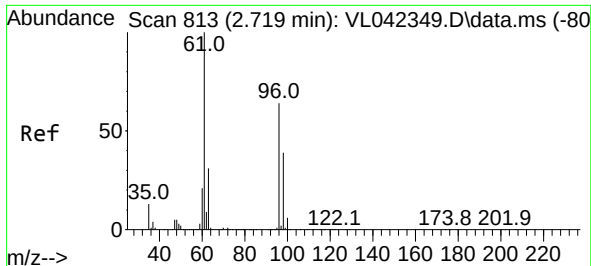
Ion Ratio Lower Upper

84 100

56 134.5 101.0 151.4

41 88.1 67.4 101.0

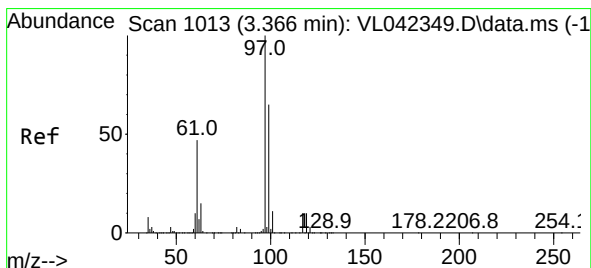
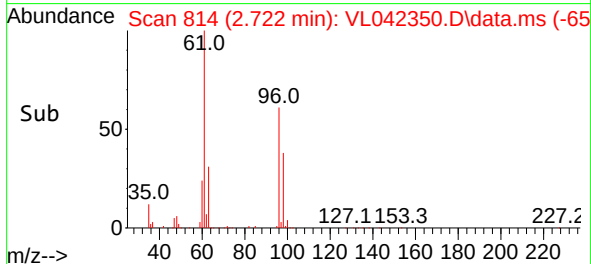
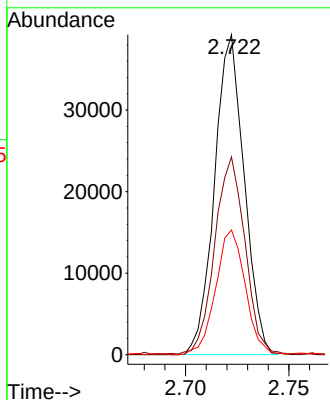
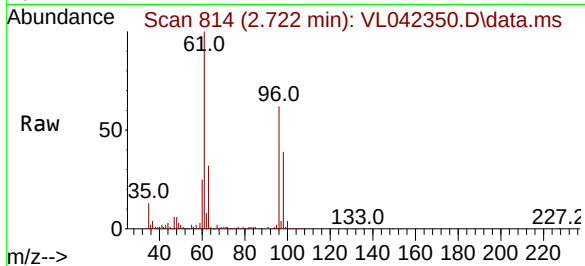




#31
 cis-1,2-Dichloroethene
 Concen: 2.051 ppbv
 RT: 2.722 min Scan# 813
 Delta R.T. 0.003 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

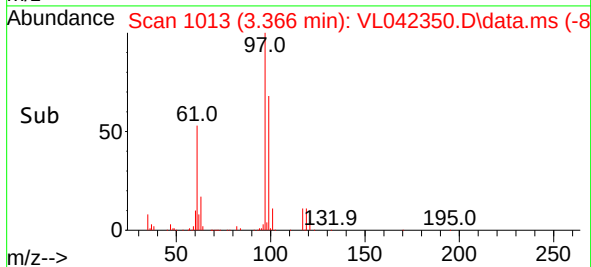
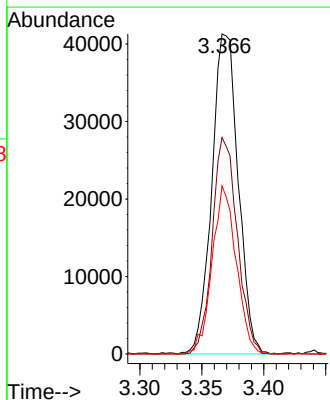
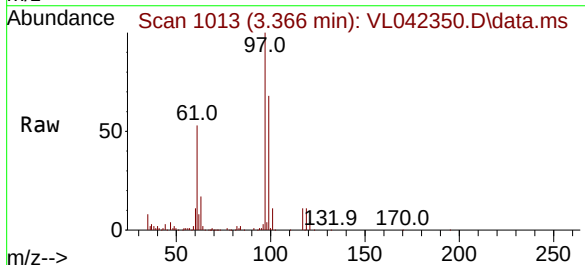
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

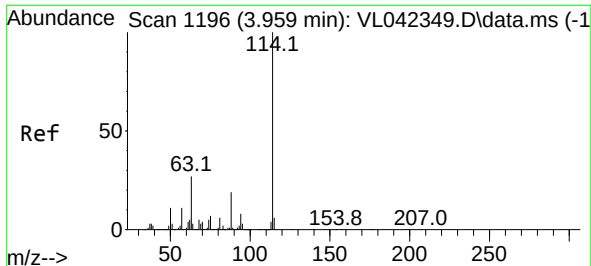
Tgt Ion: 61 Resp: 39249
 Ion Ratio Lower Upper
 61 100
 96 61.6 50.8 76.2
 98 39.0 30.9 46.3



#32
 1,1,1-Trichloroethane
 Concen: 2.014 ppbv
 RT: 3.366 min Scan# 1013
 Delta R.T. -0.000 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

Tgt Ion: 97 Resp: 61442
 Ion Ratio Lower Upper
 97 100
 99 64.0 51.0 76.4
 61 48.0 38.8 58.2

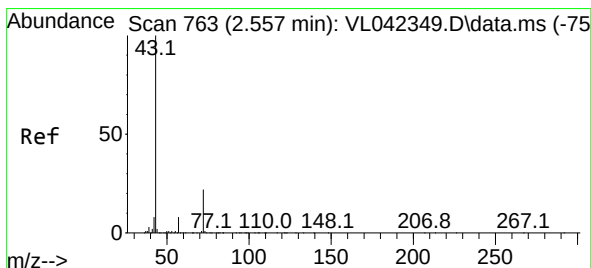
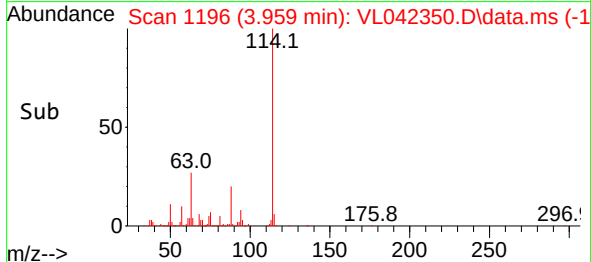
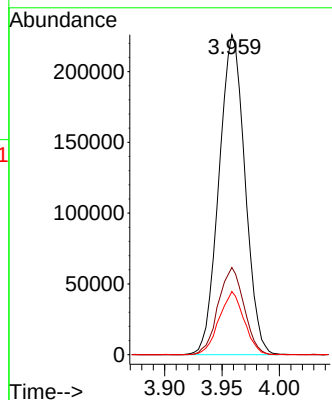
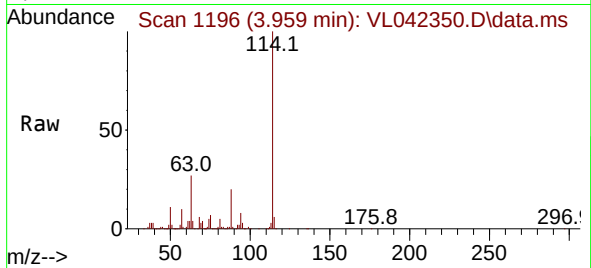




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

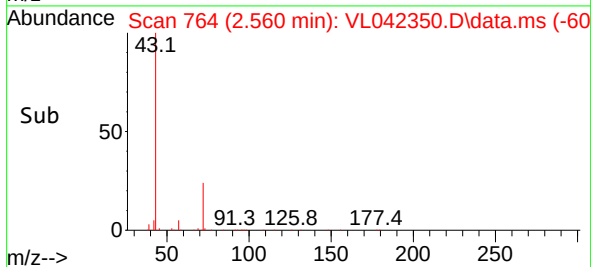
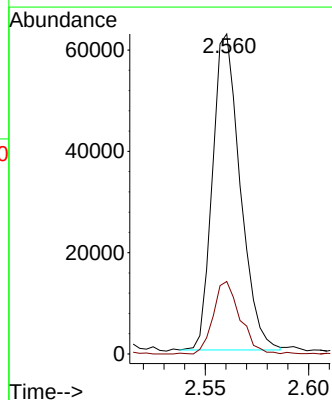
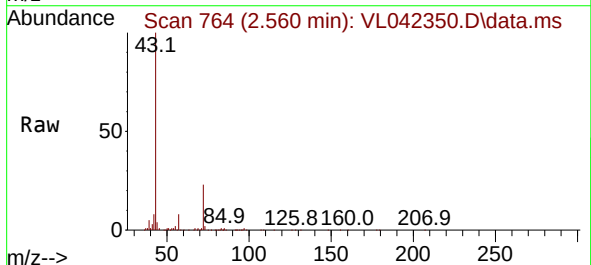
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

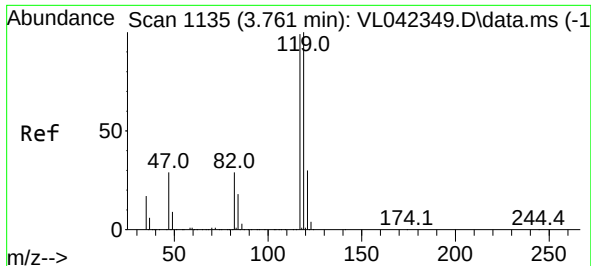
Tgt Ion:114 Resp: 355918
Ion Ratio Lower Upper
114 100
63 27.1 21.8 32.6
88 19.0 15.5 23.3



#34
2-Butanone
Concen: 2.069 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 43 Resp: 58249
Ion Ratio Lower Upper
43 100
72 22.5 18.2 27.2

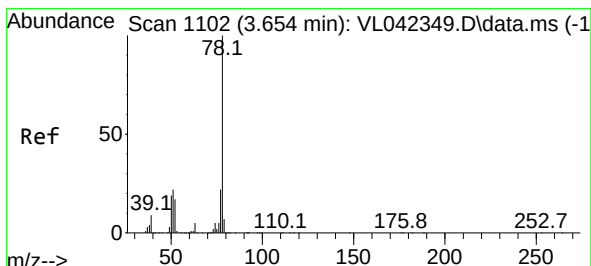
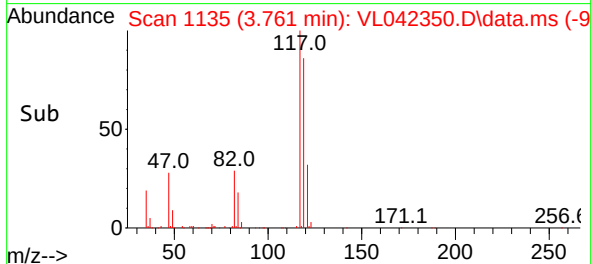
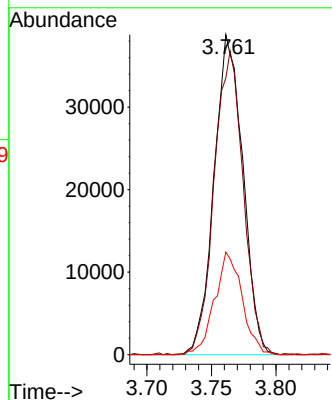
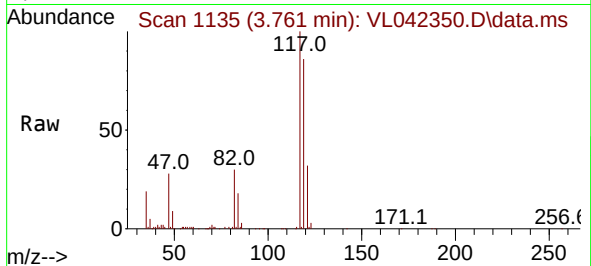




#35
Carbon Tetrachloride
Concen: 1.872 ppbv
RT: 3.761 min Scan# 1135
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

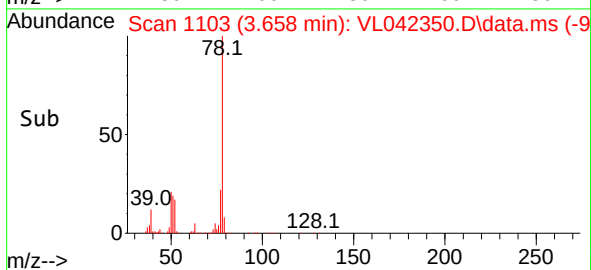
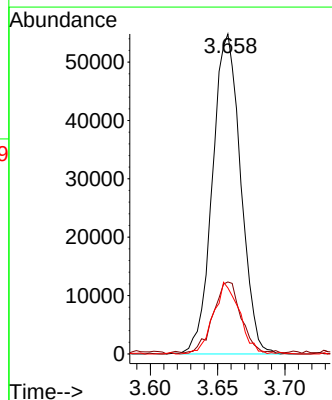
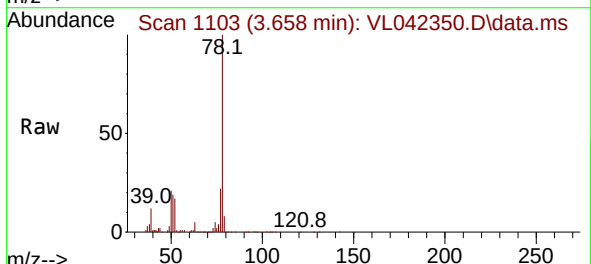
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

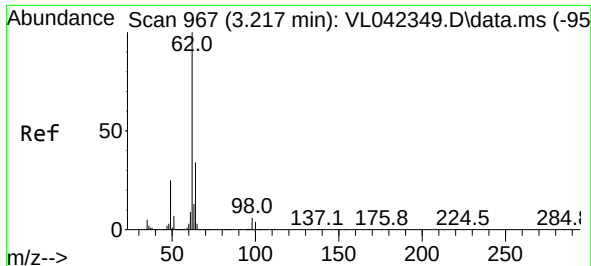
Tgt Ion:117 Resp: 60291
Ion Ratio Lower Upper
117 100
119 86.4 80.5 120.7
121 32.1 24.2 36.2



#36
Benzene
Concen: 2.079 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 78 Resp: 79814
Ion Ratio Lower Upper
78 100
77 22.0 17.4 26.0
50 20.6 15.5 23.3

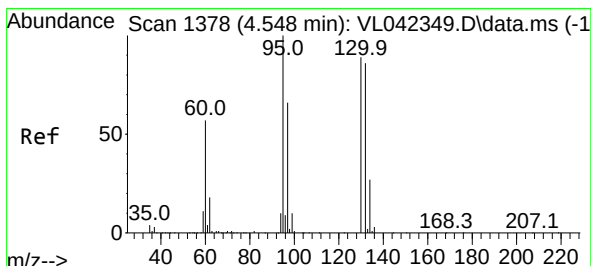
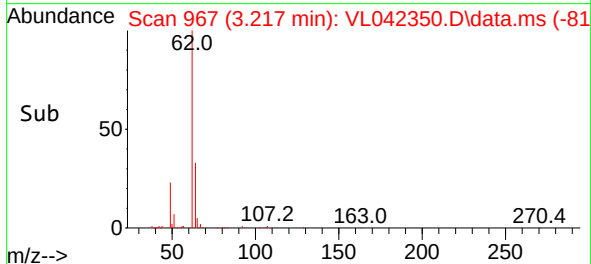
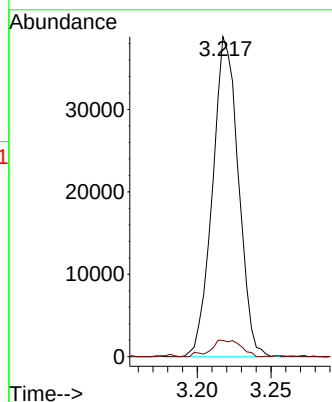
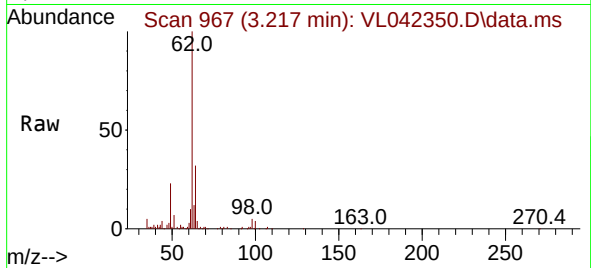




#37
1,2-Dichloroethane
Concen: 2.057 ppbv
RT: 3.217 min Scan# 967
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

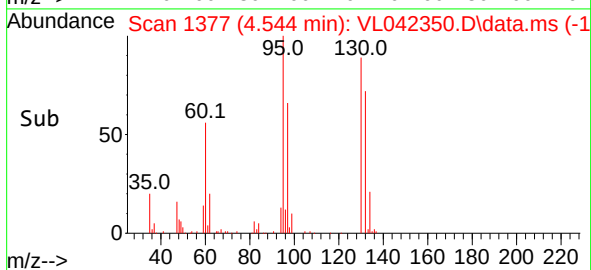
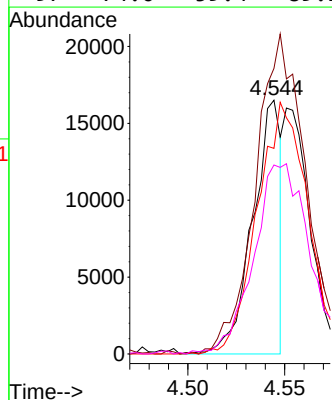
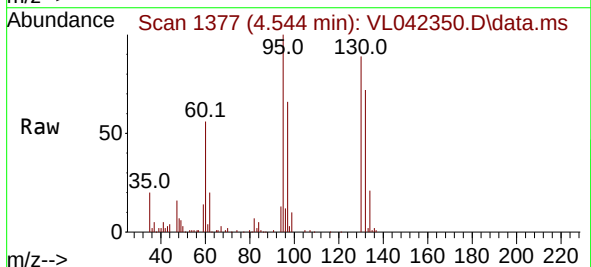
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

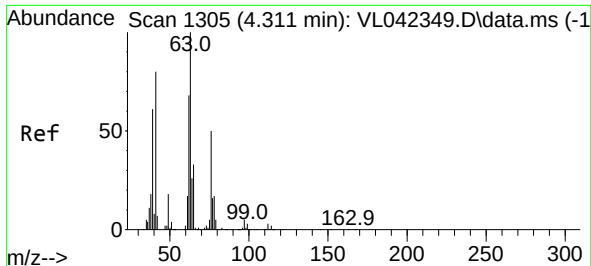
Tgt Ion: 62 Resp: 47398
Ion Ratio Lower Upper
62 100
98 6.4 5.1 7.7



#38
Trichloroethene
Concen: 0.986 ppbv
RT: 4.544 min Scan# 1377
Delta R.T. -0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:130 Resp: 16602
Ion Ratio Lower Upper
130 100
95 112.6 89.8 134.6
132 81.1 77.7 116.5
97 74.0 59.4 89.2





#39

1,2-Dichloropropane

Concen: 2.012 ppbv

RT: 4.315 min Scan# 11

Delta R.T. 0.003 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

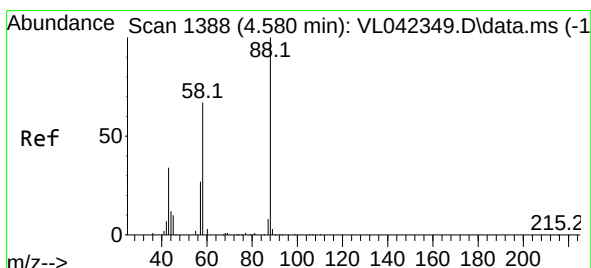
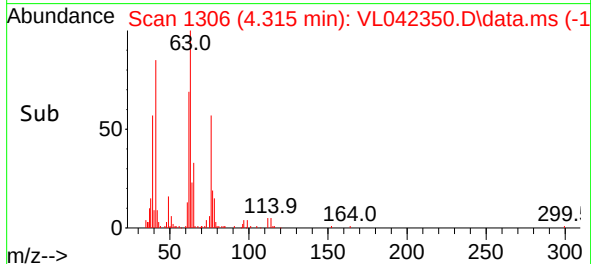
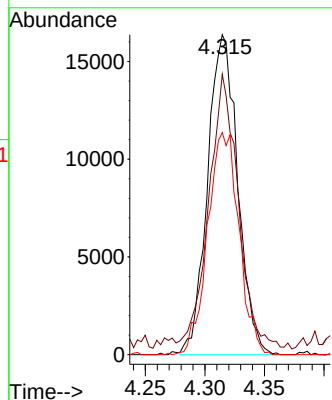
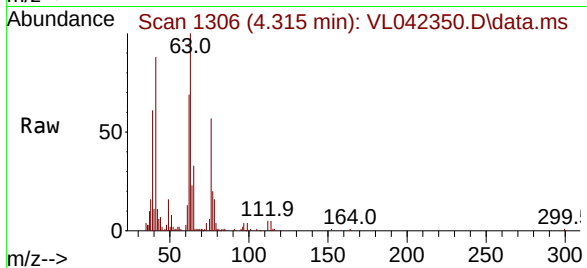
Tgt Ion: 63 Resp: 28806

Ion Ratio Lower Upper

63 100

41 85.2 64.2 96.2

62 69.4 54.3 81.5



#40

1,4-Dioxane

Concen: 2.067 ppbv

RT: 4.593 min Scan# 1392

Delta R.T. 0.013 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Tgt Ion: 88 Resp: 16026

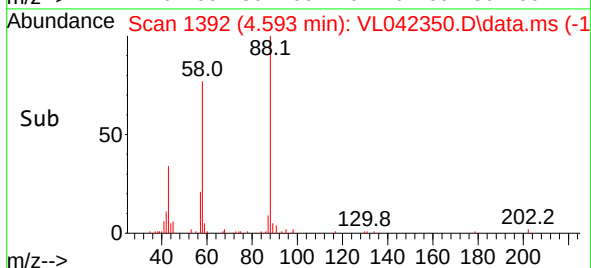
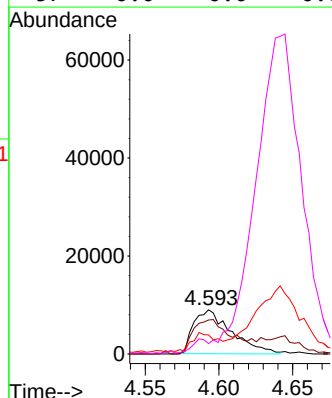
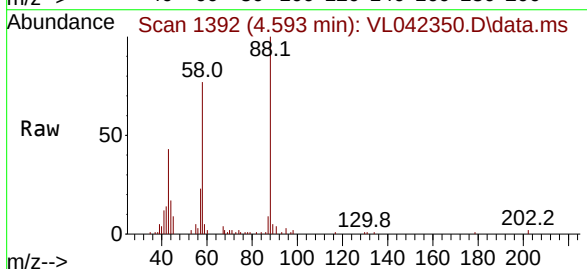
Ion Ratio Lower Upper

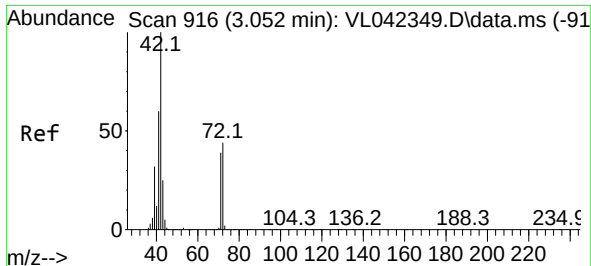
88 100

58 84.9 61.4 92.0

43 6.3 23.2 34.8#

57 0.0 0.0 0.0

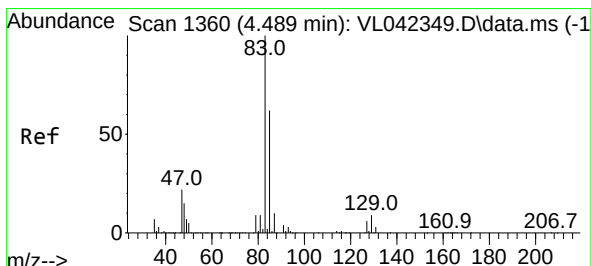
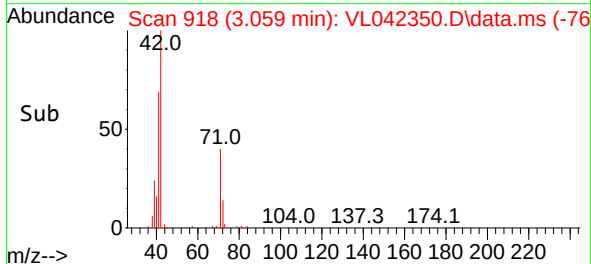
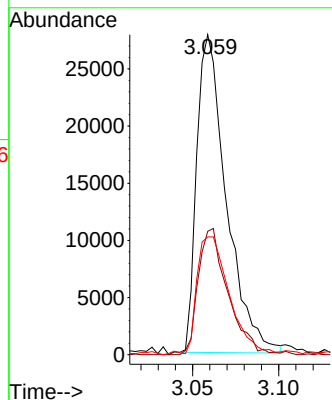
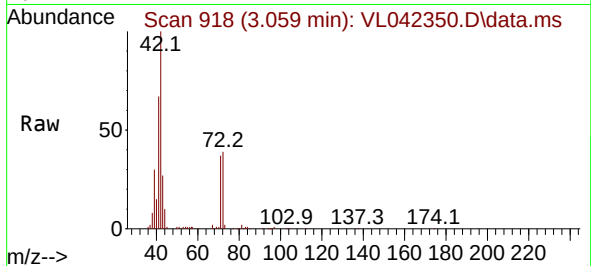




#41
Tetrahydrofuran
Concen: 2.047 ppbv
RT: 3.059 min Scan# 916
Delta R.T. 0.006 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

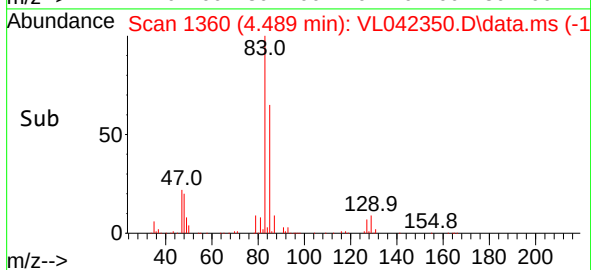
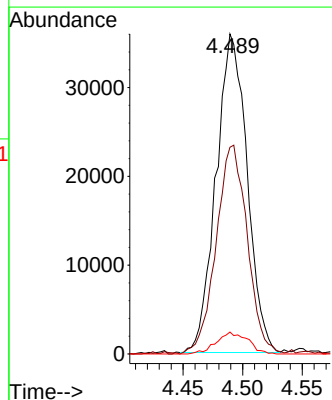
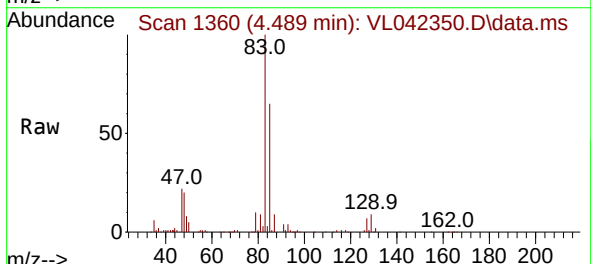
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

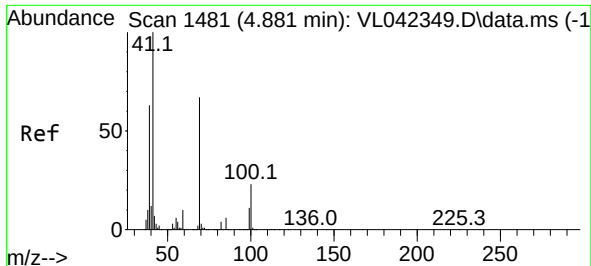
Tgt Ion: 42 Resp: 33298
Ion Ratio Lower Upper
42 100
72 39.9 32.3 48.5
71 41.5 31.4 47.2



#42
Bromodichloromethane
Concen: 2.025 ppbv
RT: 4.489 min Scan# 1360
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 83 Resp: 64941
Ion Ratio Lower Upper
83 100
85 64.9 49.7 74.5
127 6.9 5.1 7.7

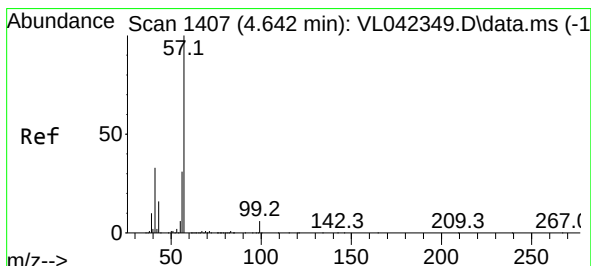
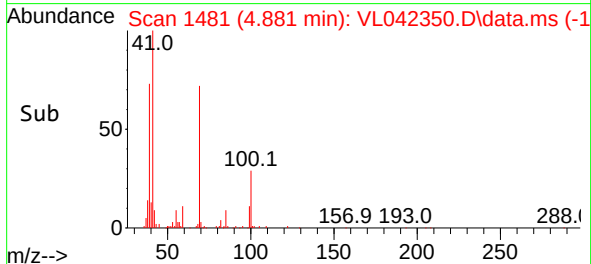
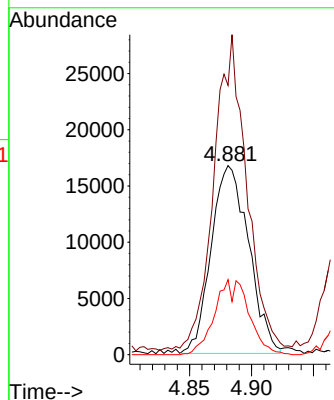
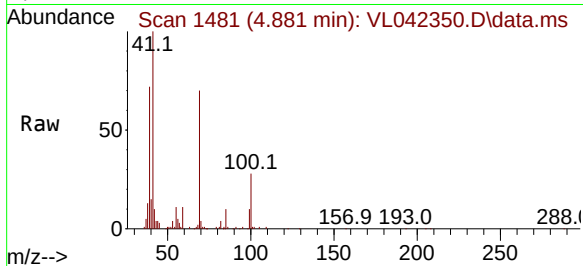




#43
Methyl Methacrylate
Concen: 2.046 ppbv
RT: 4.881 min Scan# 1481
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

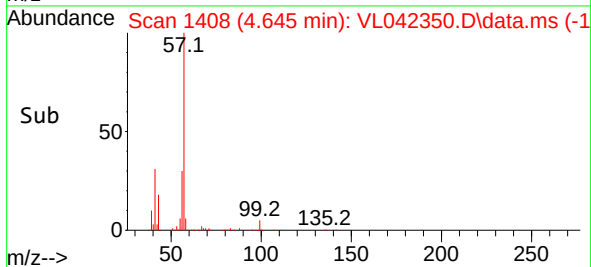
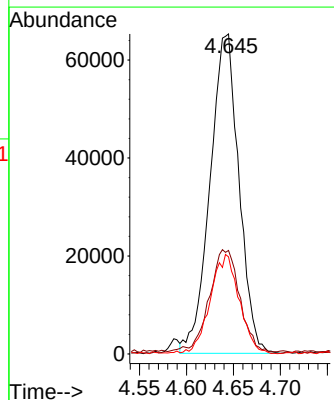
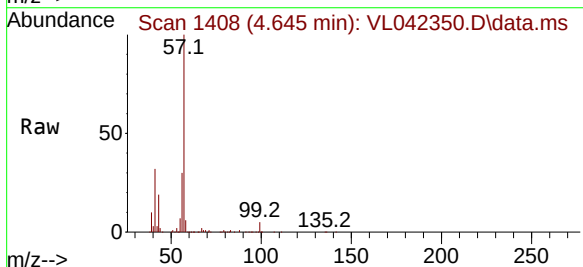
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

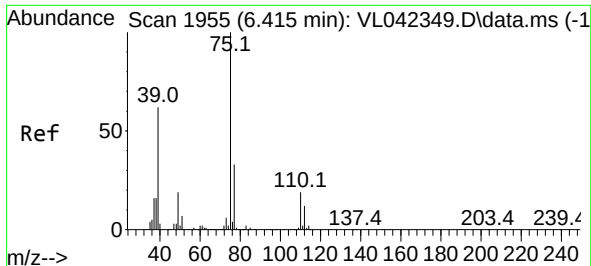
Tgt Ion: 69 Resp: 35256
Ion Ratio Lower Upper
69 100
41 144.4 118.6 177.8
100 36.5 28.2 42.2



#44
2,2,4-Trimethylpentane
Concen: 2.103 ppbv
RT: 4.645 min Scan# 1408
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 57 Resp: 139641
Ion Ratio Lower Upper
57 100
41 34.4 27.2 40.8
56 31.3 25.7 38.5

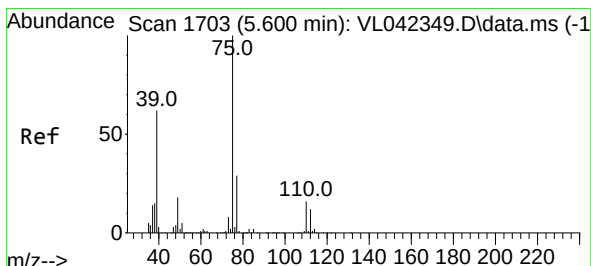
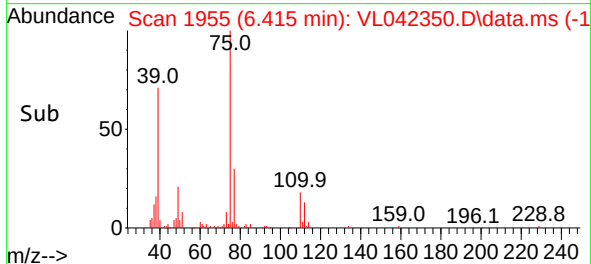
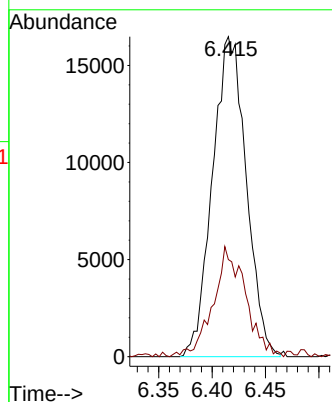
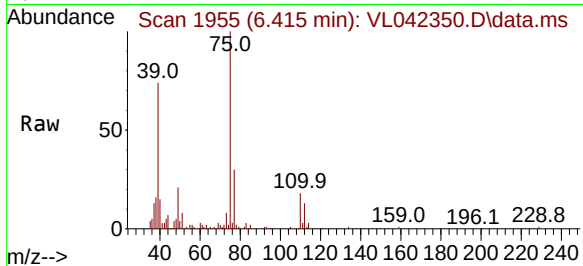




#45
t-1,3-Dichloropropene
Concen: 2.050 ppbv
RT: 6.415 min Scan# 1955
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

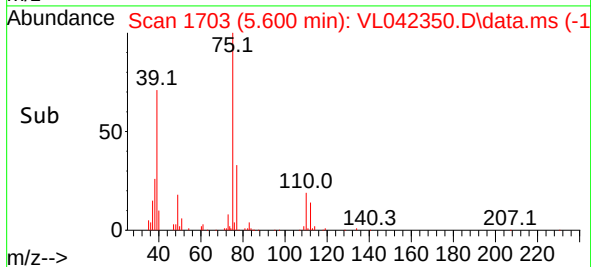
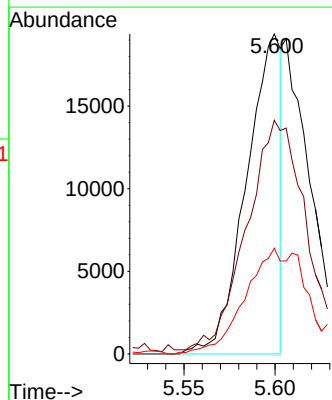
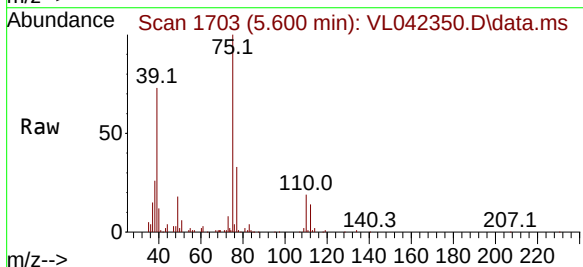
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

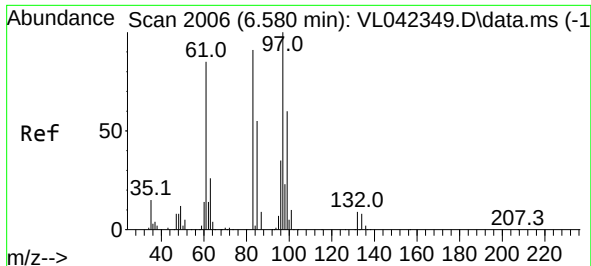
Tgt Ion: 75 Resp: 36265
Ion Ratio Lower Upper
75 100
77 30.4 27.0 40.6



#46
cis-1,3-Dichloropropene
Concen: 1.183 ppbv
RT: 5.600 min Scan# 1703
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 75 Resp: 25569
Ion Ratio Lower Upper
75 100
39 71.8 50.0 75.0
77 32.5 23.0 34.6





#47

1,1,2-Trichloroethane

Concen: 2.049 ppbv

RT: 6.590 min Scan# 2006

Delta R.T. 0.010 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion: 97 Resp: 29879

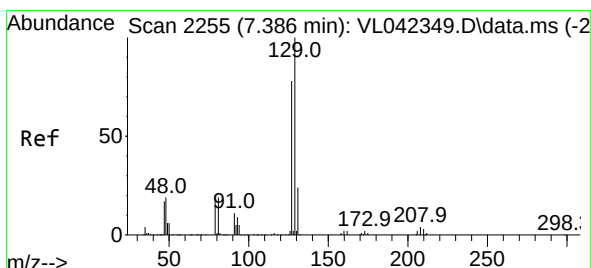
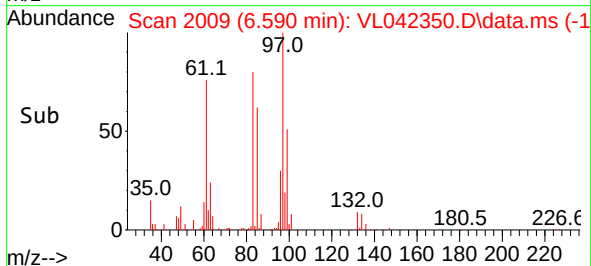
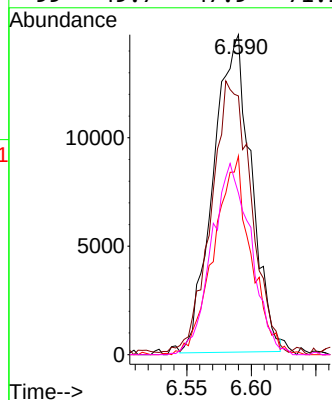
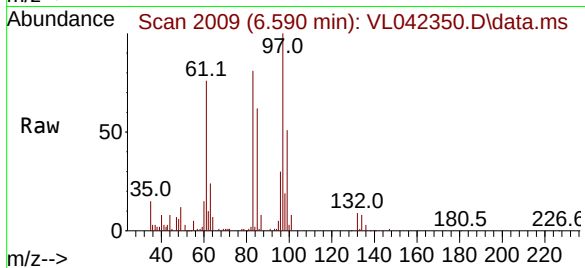
Ion Ratio Lower Upper

97 100

83 78.8 72.8 109.2

85 61.7 44.2 66.4

99 49.7 47.9 71.9



#48

Dibromochloromethane

Concen: 2.061 ppbv

RT: 7.389 min Scan# 2256

Delta R.T. 0.003 min

Lab File: VL042350.D

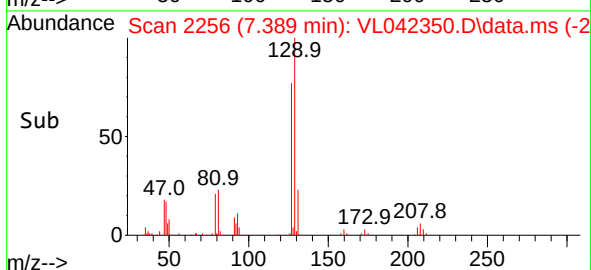
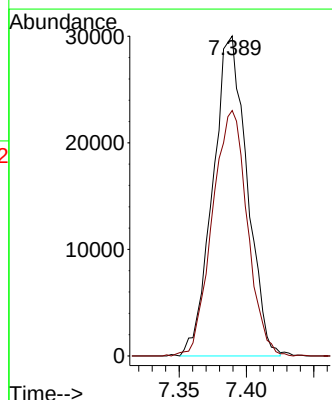
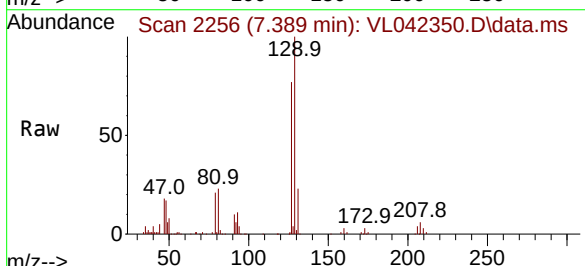
Acq: 17 Apr 2025 10:17

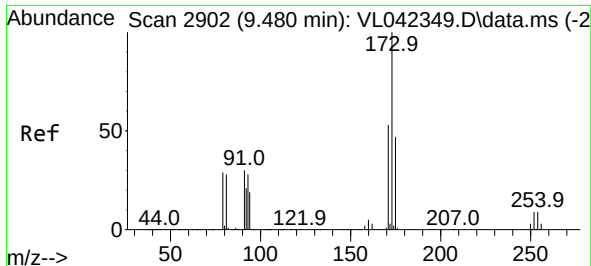
Tgt Ion: 129 Resp: 53069

Ion Ratio Lower Upper

129 100

127 78.4 39.1 117.3

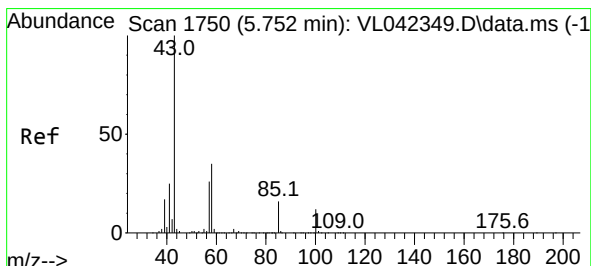
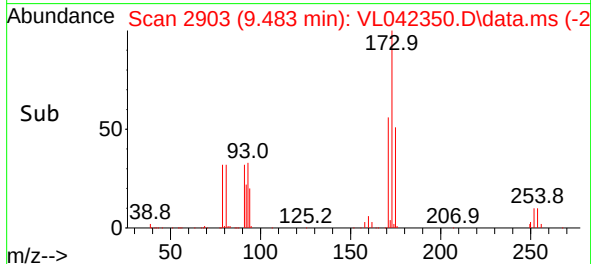
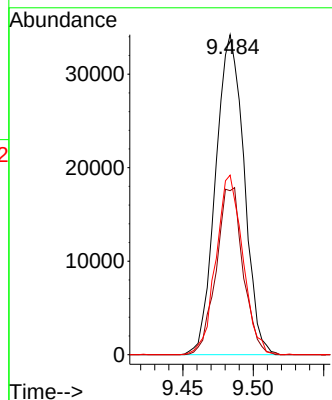
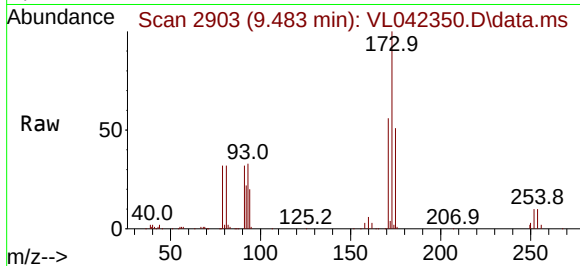




#49
Bromoform
Concen: 2.135 ppbv
RT: 9.483 min Scan# 2902
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

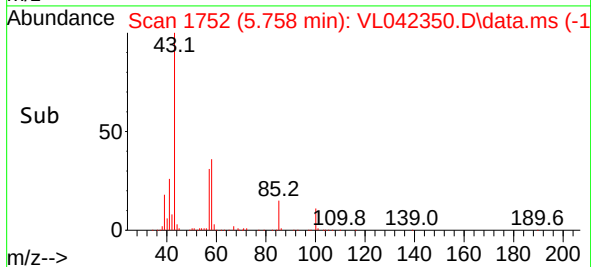
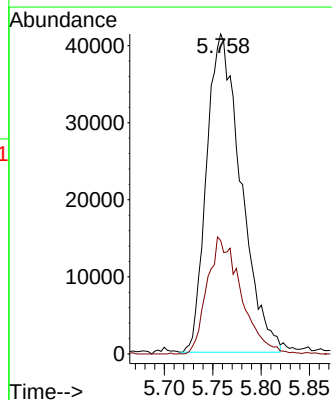
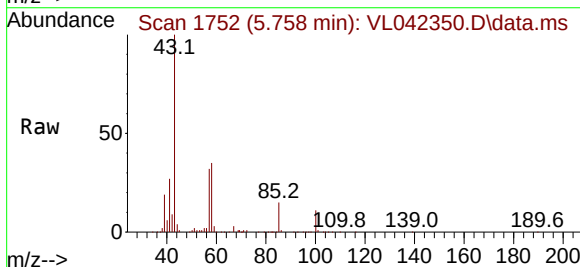
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

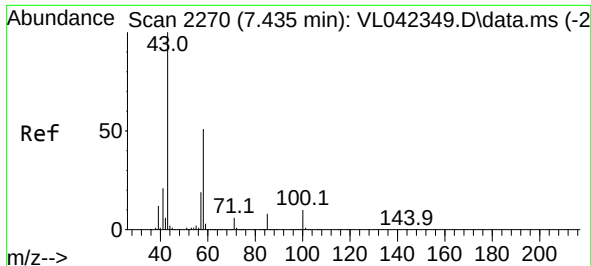
Tgt Ion:173 Resp: 48069
Ion Ratio Lower Upper
173 100
175 49.4 38.2 57.2
171 53.0 40.9 61.3



#50
4-Methyl-2-Pentanone
Concen: 2.180 ppbv
RT: 5.758 min Scan# 1752
Delta R.T. 0.006 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 43 Resp: 102182
Ion Ratio Lower Upper
43 100
58 36.3 28.6 43.0

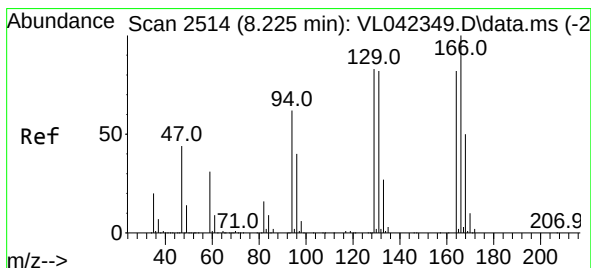
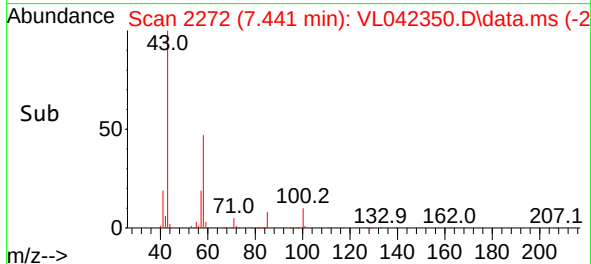
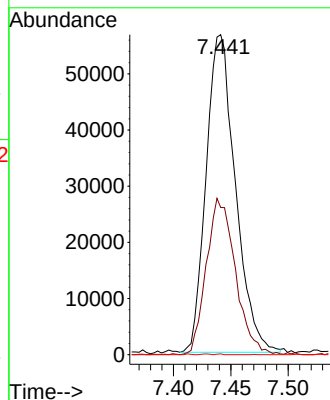
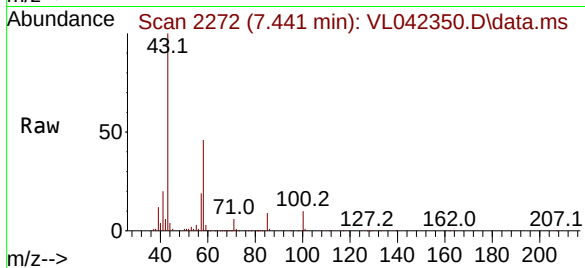




#51
2-Hexanone
Concen: 2.375 ppbv
RT: 7.441 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

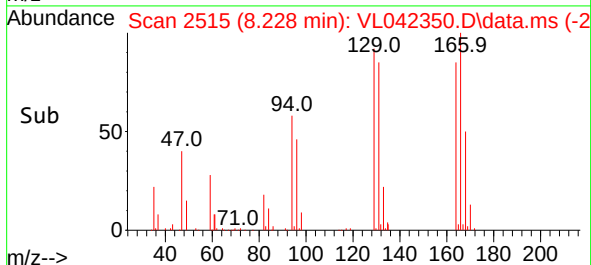
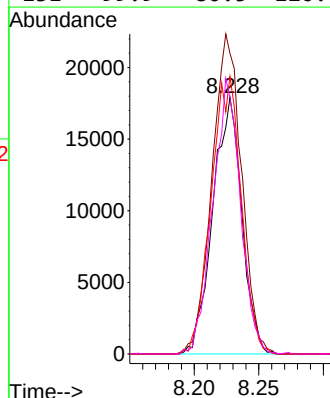
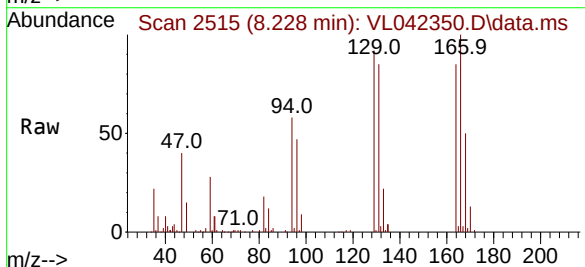
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

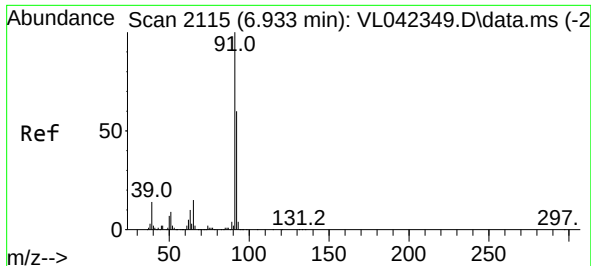
Tgt Ion: 43 Resp: 100443
Ion Ratio Lower Upper
43 100
58 49.0 40.2 60.4
98 0.1 0.1 0.1



#52
Tetrachloroethene
Concen: 1.877 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 164 Resp: 27854
Ion Ratio Lower Upper
164 100
166 117.2 98.2 147.2
129 108.2 81.8 122.8
131 99.9 80.5 120.7

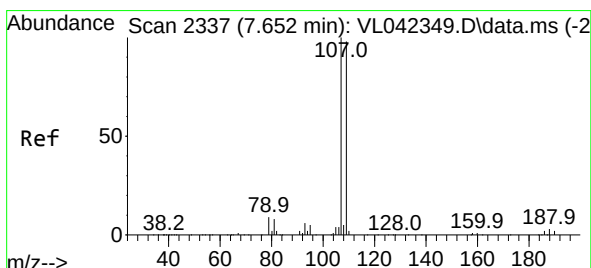
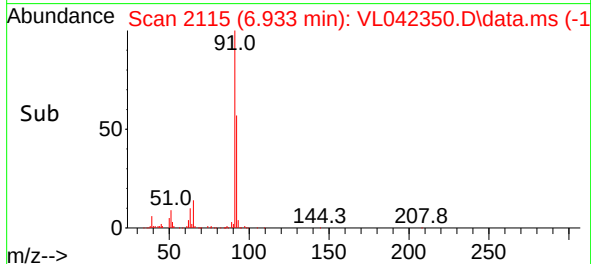
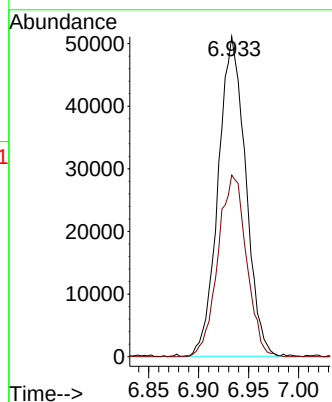
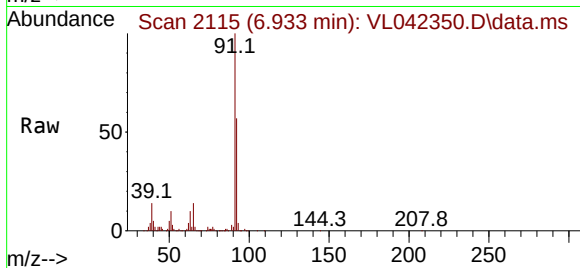




#53
Toluene
Concen: 2.116 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

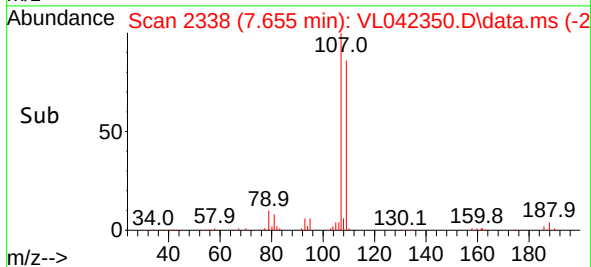
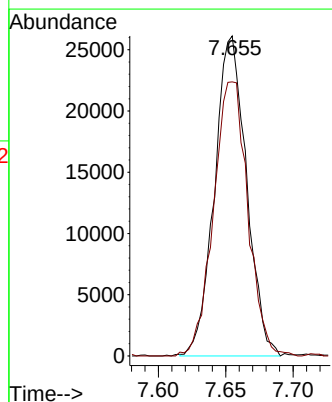
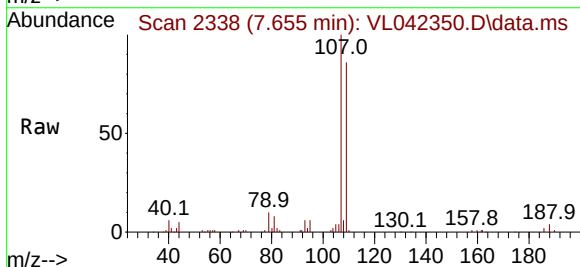
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

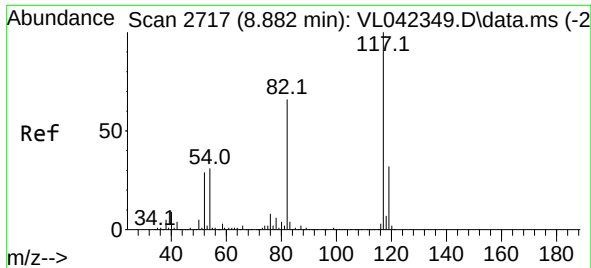
Tgt Ion: 91 Resp: 97493
Ion Ratio Lower Upper
91 100
92 59.1 48.2 72.4



#54
1,2-Dibromoethane
Concen: 2.076 ppbv
RT: 7.655 min Scan# 2338
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 107 Resp: 43153
Ion Ratio Lower Upper
107 100
109 84.5 78.2 117.4

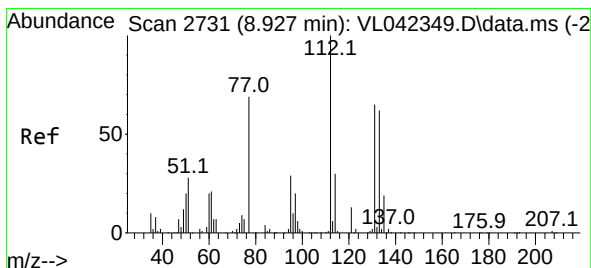
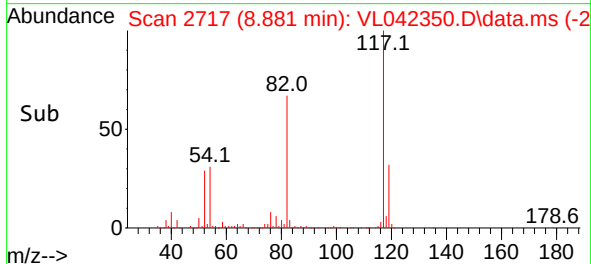
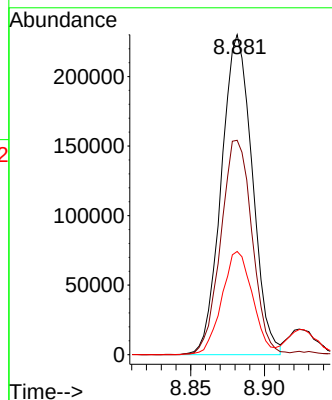
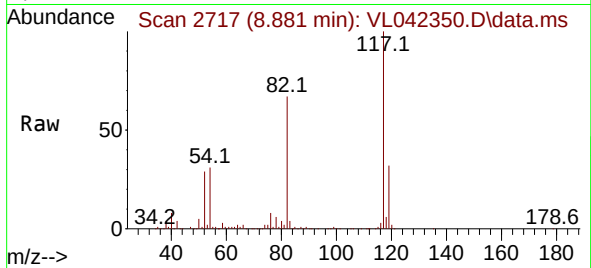




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.881 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

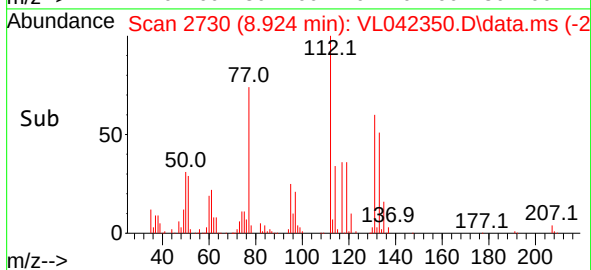
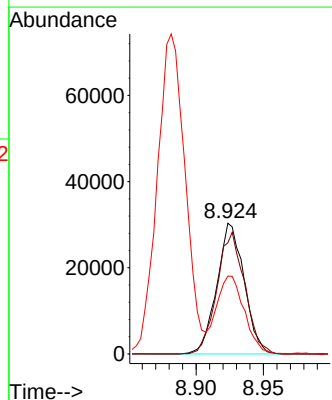
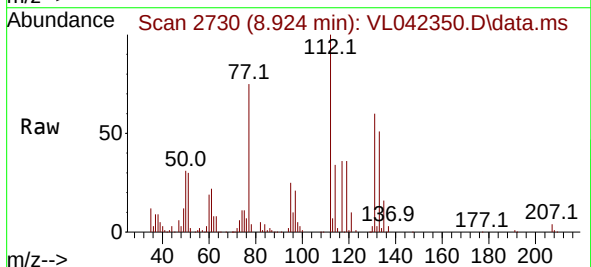
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

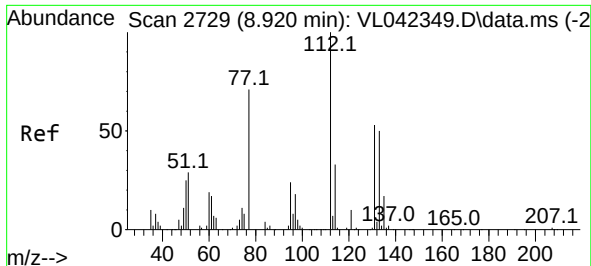
Tgt Ion:117 Resp: 335603
Ion Ratio Lower Upper
117 100
82 68.8 57.8 86.6
119 32.2 25.2 37.8



#56
1,1,1,2-Tetrachloroethane
Concen: 2.097 ppbv
RT: 8.924 min Scan# 2730
Delta R.T. -0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:131 Resp: 42601
Ion Ratio Lower Upper
131 100
133 95.3 78.3 117.5
119 53.8 48.7 73.1

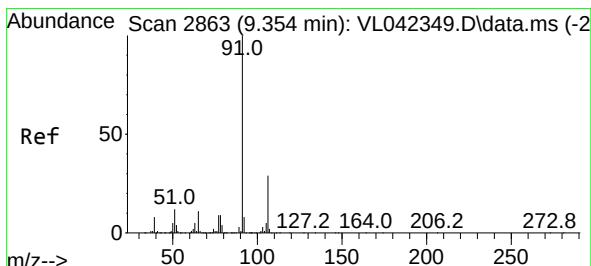
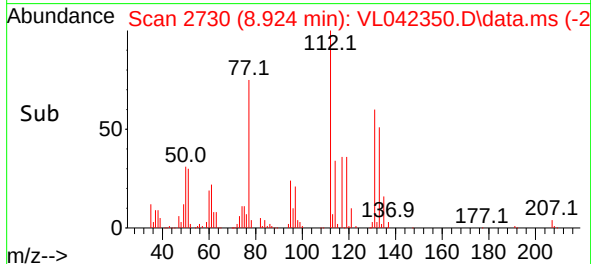
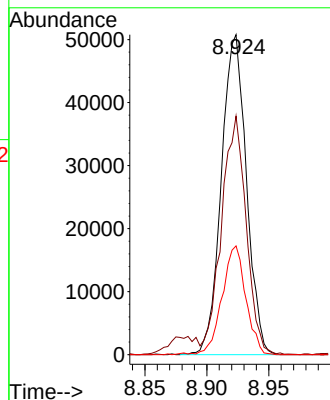
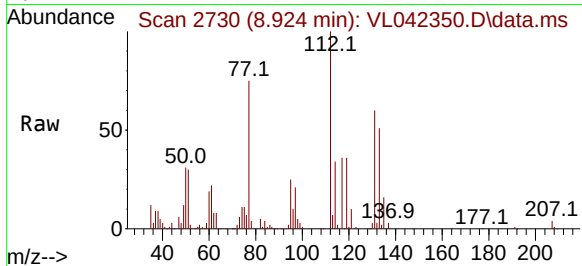




#57
Chlorobenzene
Concen: 2.054 ppbv
RT: 8.924 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

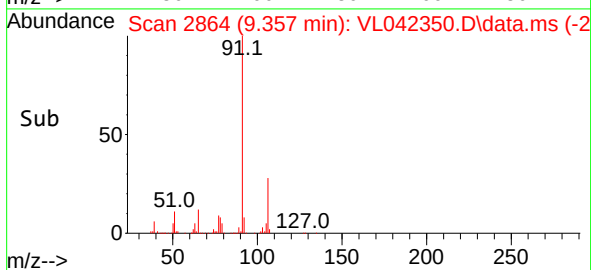
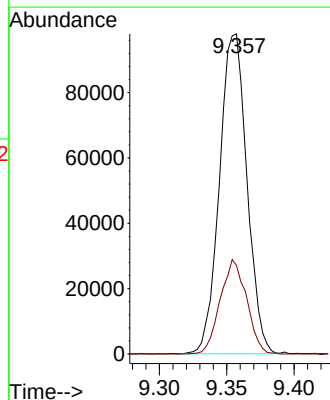
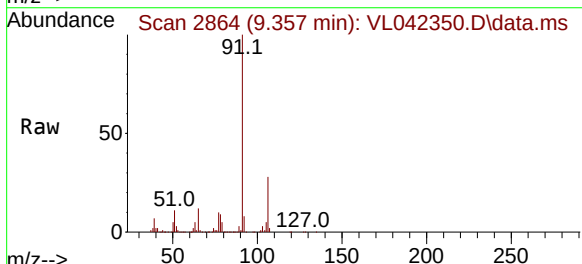
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

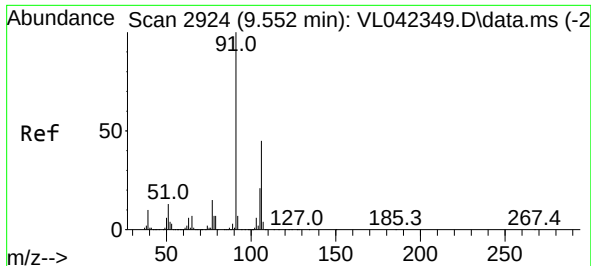
Tgt Ion: 112 Resp: 71685
Ion Ratio Lower Upper
112 100
77 74.0 57.8 86.6
114 34.0 29.3 35.9



#58
Ethyl Benzene
Concen: 2.088 ppbv
RT: 9.357 min Scan# 2864
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 91 Resp: 138810
Ion Ratio Lower Upper
91 100
106 27.7 23.0 34.4





#59

m/p-Xylene

Concen: 1.934 ppbv

RT: 9.551 min Scan# 2924

Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

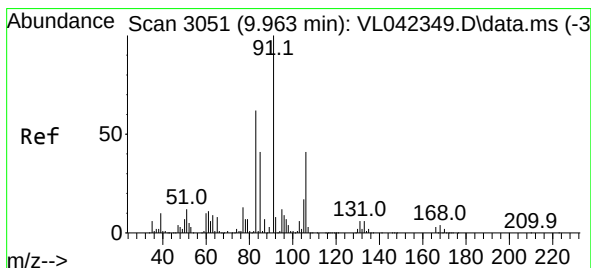
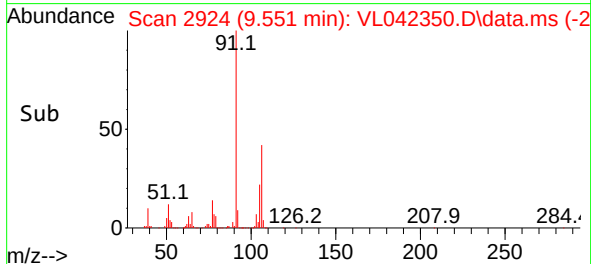
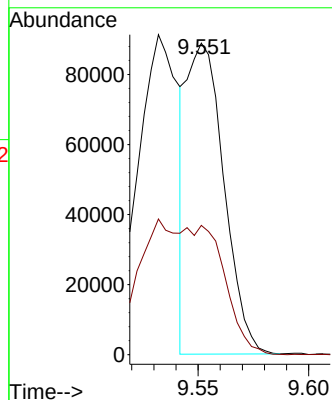
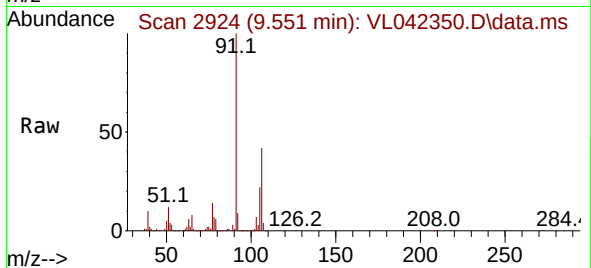
VSTDIC002

Tgt Ion: 91 Resp: 103886

Ion Ratio Lower Upper

91 100

106 0.0 35.4 53.2#



#60

o-Xylene

Concen: 2.076 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. -0.000 min

Lab File: VL042350.D

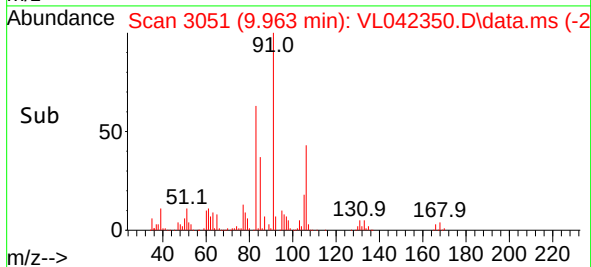
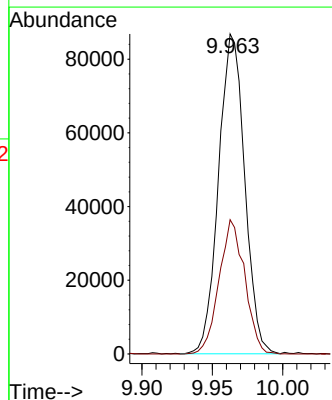
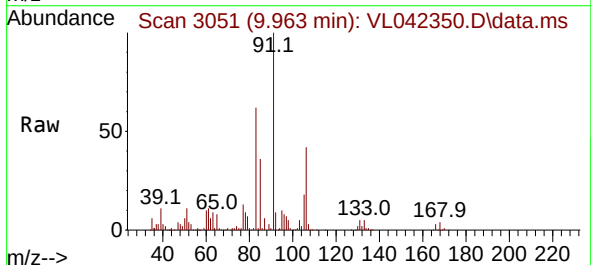
Acq: 17 Apr 2025 10:17

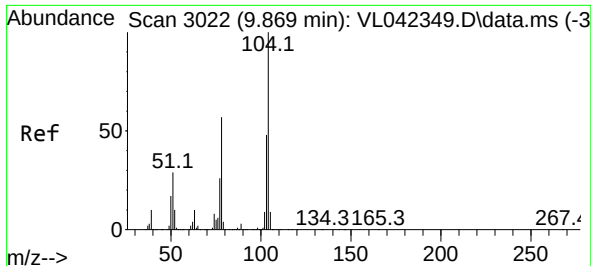
Tgt Ion: 91 Resp: 111972

Ion Ratio Lower Upper

91 100

106 41.2 21.1 63.4





#61

Styrene

Concen: 2.106 ppbv

RT: 9.872 min Scan# 3022

Delta R.T. 0.003 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC002

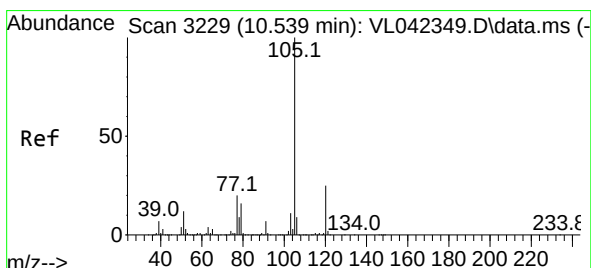
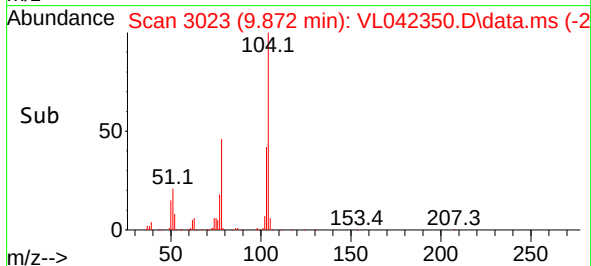
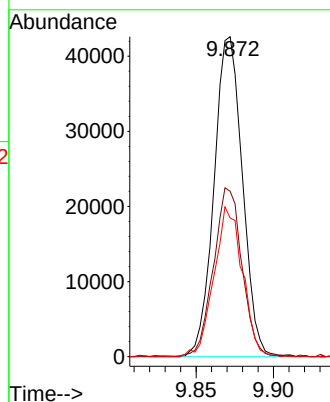
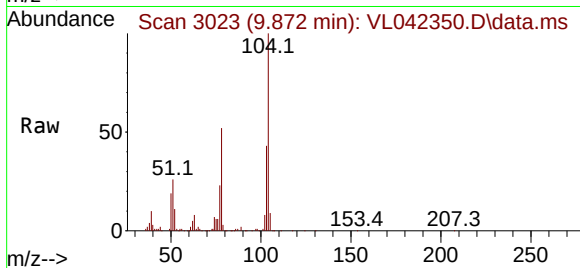
Tgt Ion:104 Resp: 54229

Ion Ratio Lower Upper

104 100

78 53.4 44.6 66.8

103 47.1 37.4 56.0



#62

Isopropylbenzene

Concen: 2.067 ppbv

RT: 10.539 min Scan# 3229

Delta R.T. -0.000 min

Lab File: VL042350.D

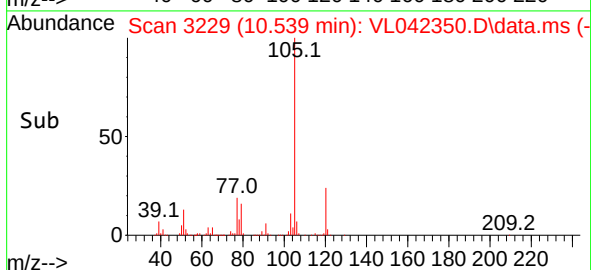
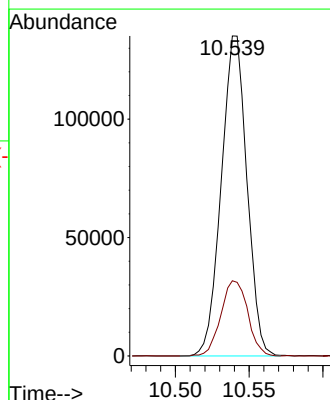
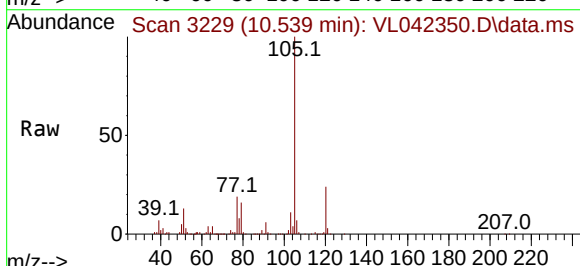
Acq: 17 Apr 2025 10:17

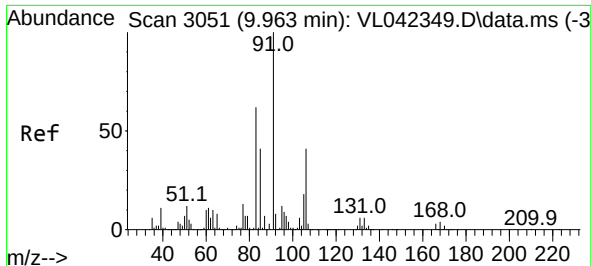
Tgt Ion:105 Resp: 163716

Ion Ratio Lower Upper

105 100

120 24.6 19.8 29.8

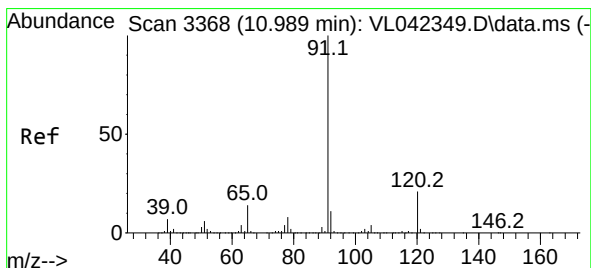
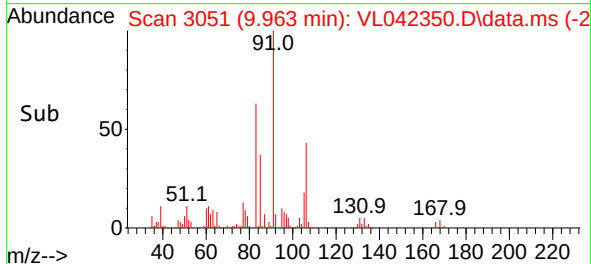
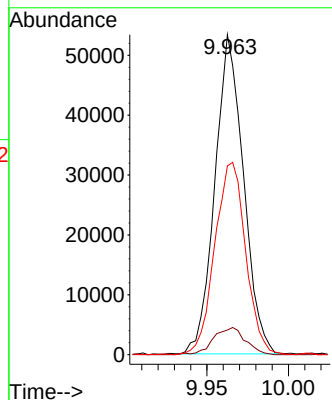
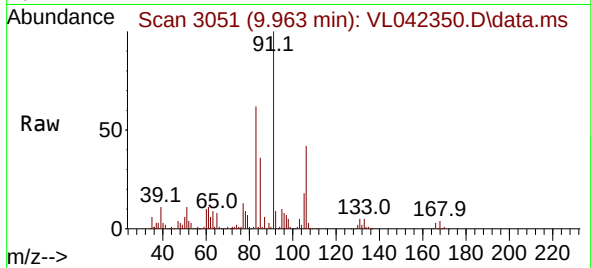




#63
1,1,2,2-Tetrachloroethane
Concen: 1.853 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

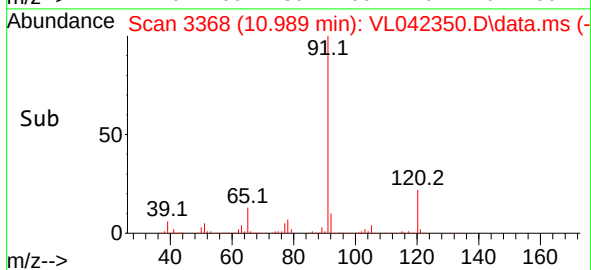
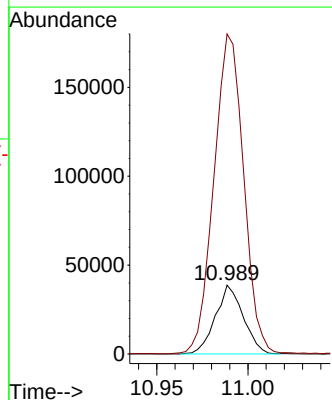
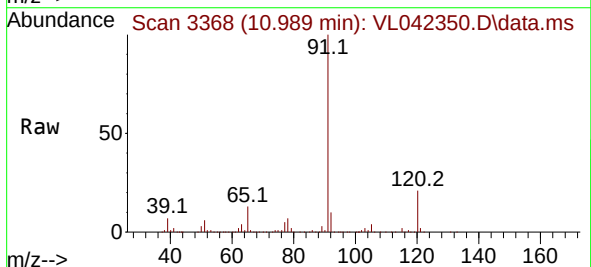
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

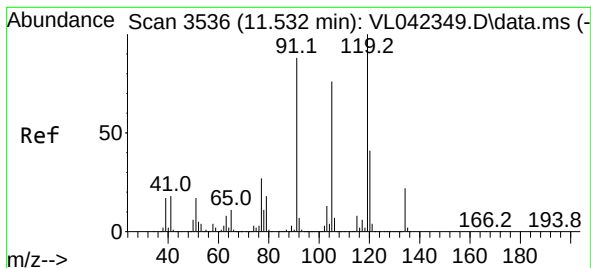
Tgt Ion: 83 Resp: 64952
Ion Ratio Lower Upper
83 100
131 9.6 4.5 13.7
85 65.4 32.4 97.0



#64
n-propylbenzene
Concen: 2.058 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 120 Resp: 40956
Ion Ratio Lower Upper
120 100
91 502.0 392.4 588.6





#65

tert-Butylbenzene

Concen: 2.135 ppbv

RT: 11.532 min Scan# 3536

Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC002

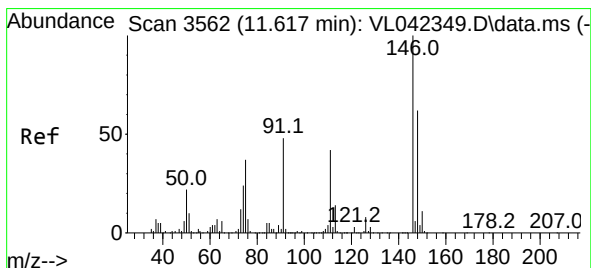
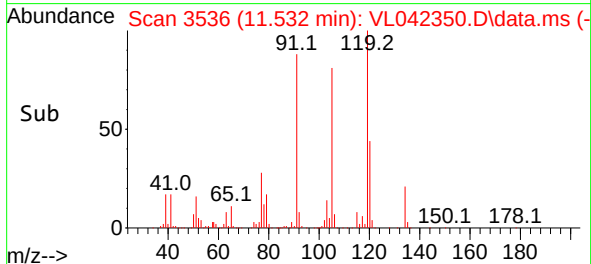
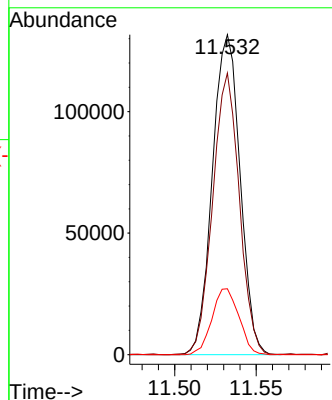
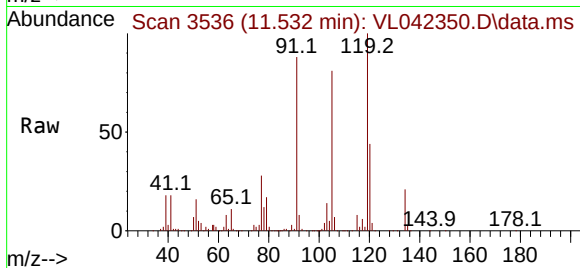
Tgt Ion:119 Resp: 155401

Ion Ratio Lower Upper

119 100

91 85.0 74.6 111.8

134 20.1 18.8 28.2



#66

Benzyl Chloride

Concen: 2.163 ppbv

RT: 11.616 min Scan# 3562

Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

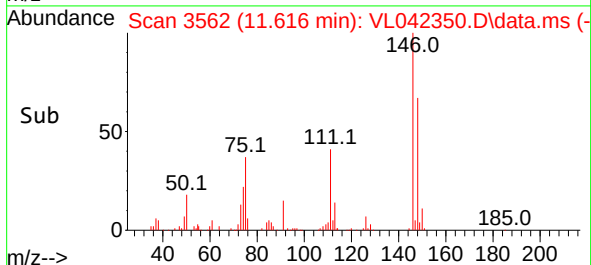
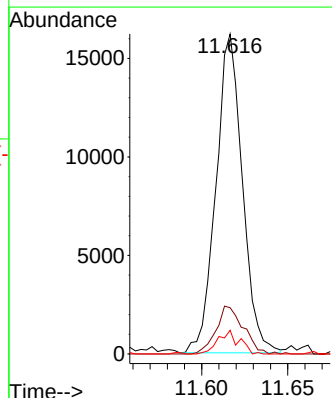
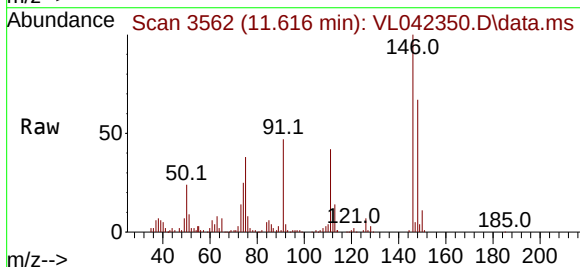
Tgt Ion: 91 Resp: 17300

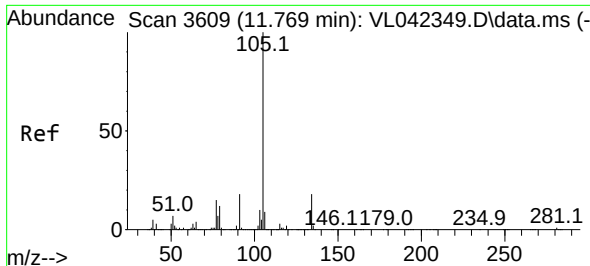
Ion Ratio Lower Upper

91 100

126 15.6 11.8 17.6

128 6.1 4.5 6.7

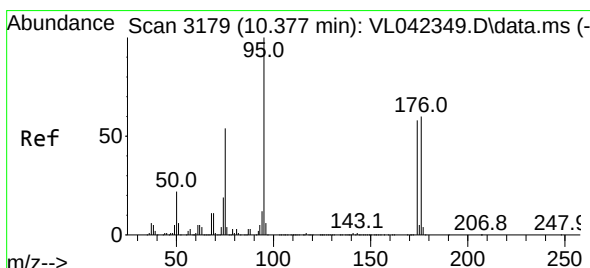
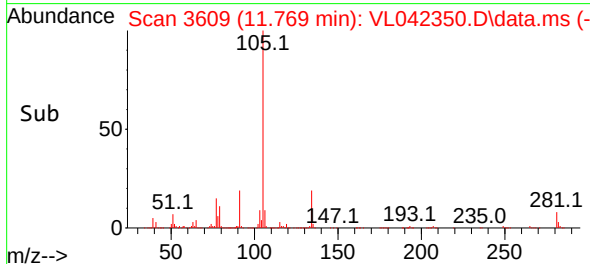
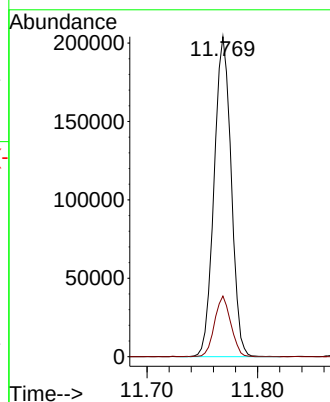
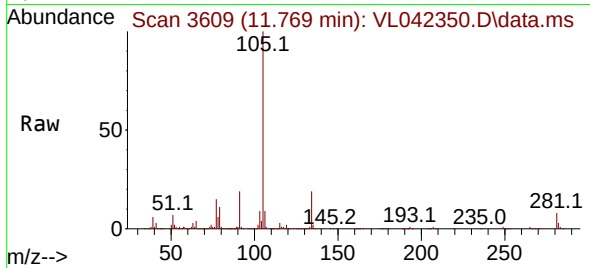




#67
 sec-Butylbenzene
 Concen: 2.156 ppbv
 RT: 11.769 min Scan# 3609
 Delta R.T. -0.000 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

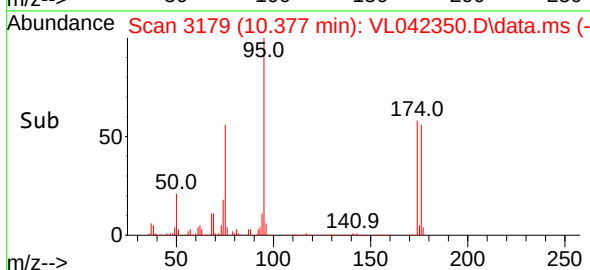
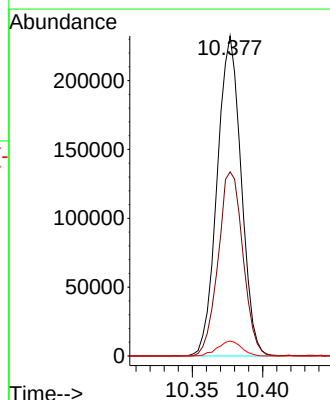
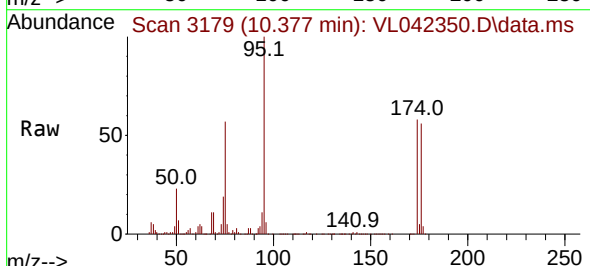
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

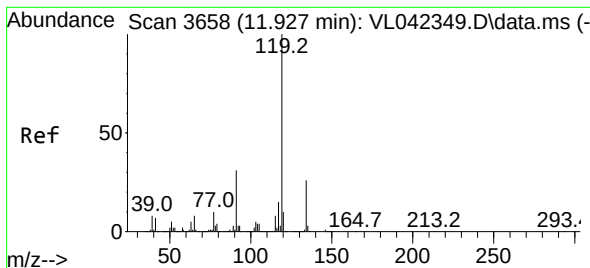
Tgt Ion:105 Resp: 218327
 Ion Ratio Lower Upper
 105 100
 134 18.1 14.6 21.8



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.998 ppbv
 RT: 10.377 min Scan# 3179
 Delta R.T. -0.000 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

Tgt Ion: 95 Resp: 275715
 Ion Ratio Lower Upper
 95 100
 174 59.6 48.5 72.7
 175 4.7 3.7 5.5

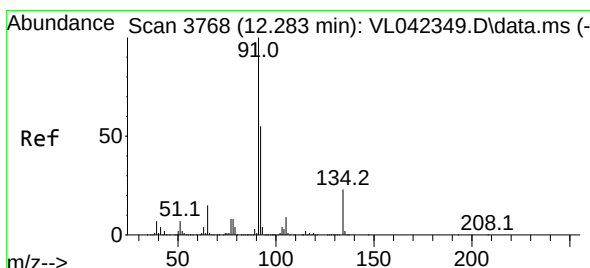
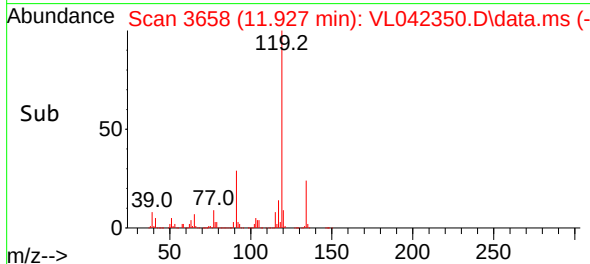
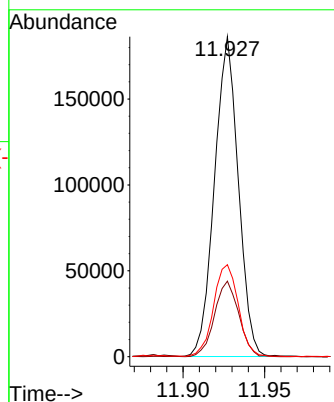
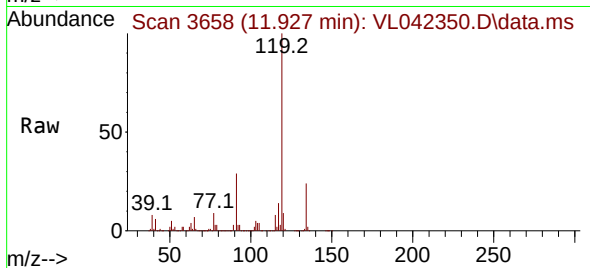




#69
p-Isopropyltoluene
Concen: 2.145 ppbv
RT: 11.927 min Scan# 3658
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

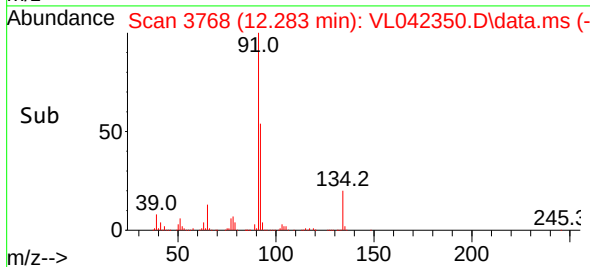
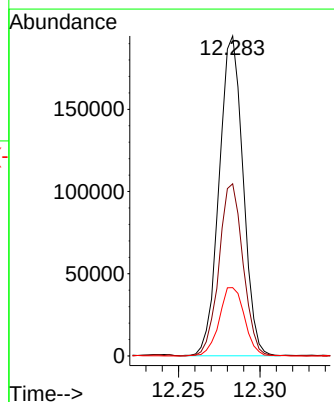
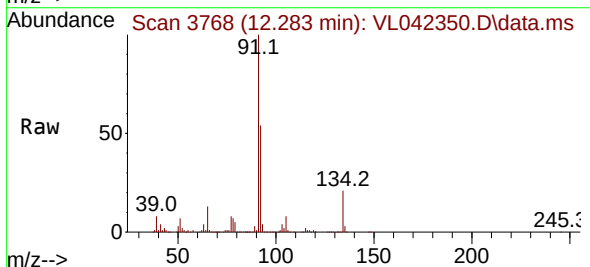
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

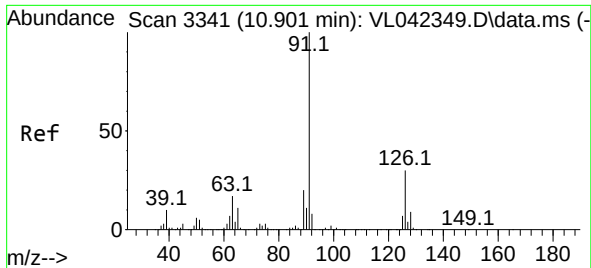
Tgt Ion: 119 Resp: 188657
Ion Ratio Lower Upper
119 100
134 24.2 20.0 30.0
91 30.8 24.4 36.6



#70
n-Butylbenzene
Concen: 2.164 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 91 Resp: 198221
Ion Ratio Lower Upper
91 100
92 54.4 44.2 66.4
134 22.6 18.2 27.4

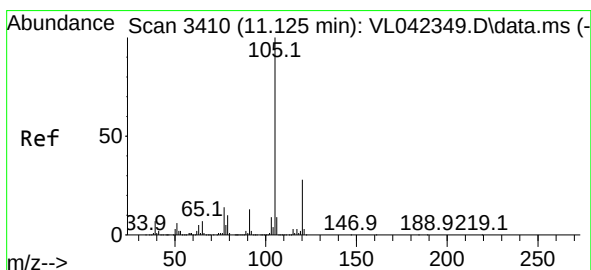
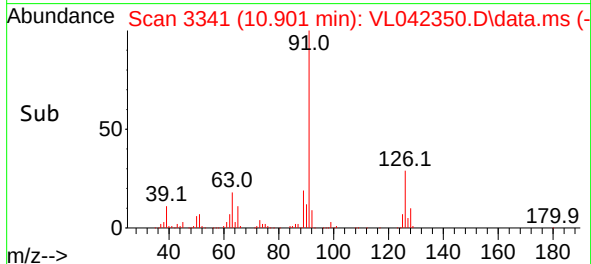
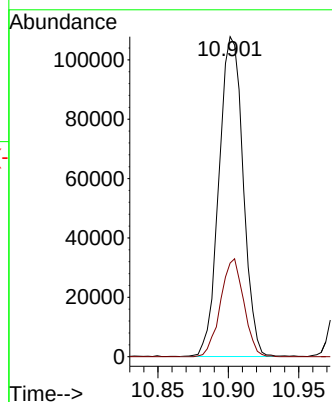
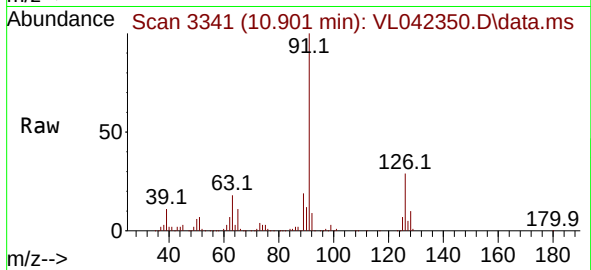




#71
2-Chlorotoluene
Concen: 2.075 ppbv
RT: 10.901 min Scan# 31
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

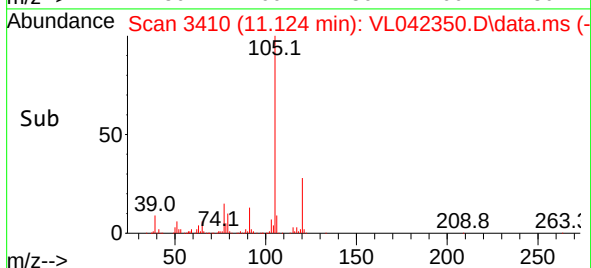
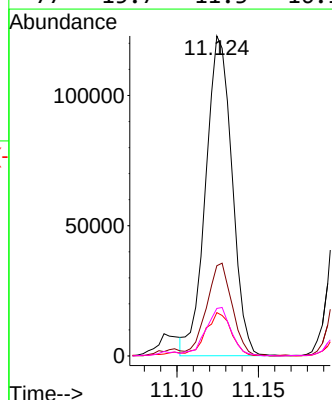
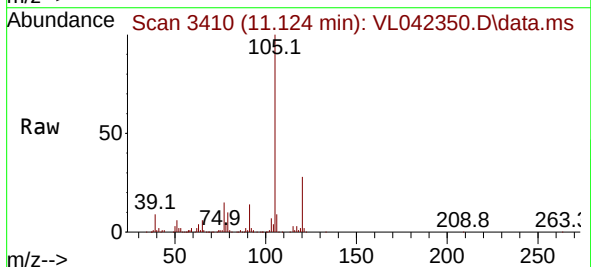
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

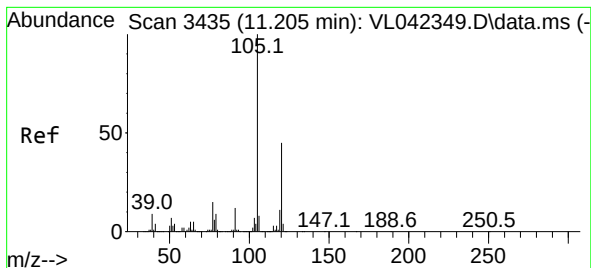
Tgt Ion: 91 Resp: 128858
Ion Ratio Lower Upper
91 100
126 29.5 11.4 45.4



#72
4-Ethyltoluene
Concen: 2.091 ppbv
RT: 11.124 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 105 Resp: 137872
Ion Ratio Lower Upper
105 100
120 30.1 23.2 34.8
91 14.4 10.4 15.6
77 15.7 11.3 16.9





#73

1,3,5-Trimethylbenzene

Concen: 2.123 ppbv

RT: 11.205 min Scan# 3435

Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Instrument :

MSVOA_1

ClientSampleId :

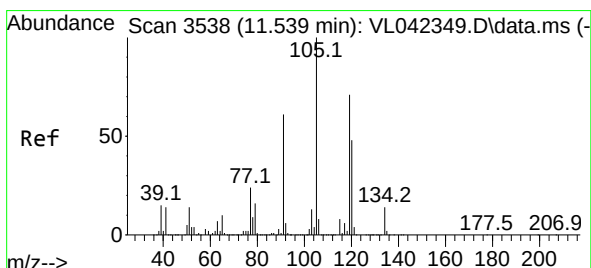
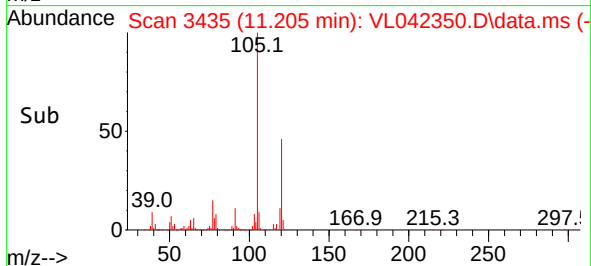
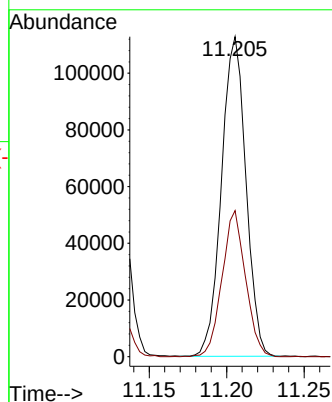
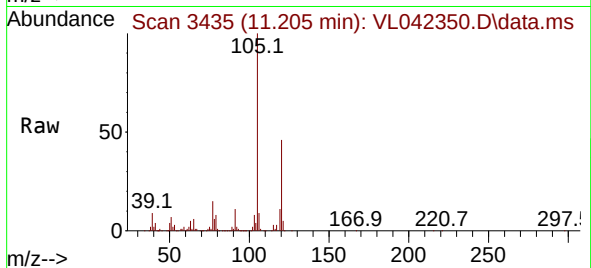
VSTDIC002

Tgt Ion:105 Resp: 123580

Ion Ratio Lower Upper

105 100

120 45.7 35.6 53.4



#74

1,2,4-Trimethylbenzene

Concen: 2.140 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Tgt Ion:105 Resp: 145510

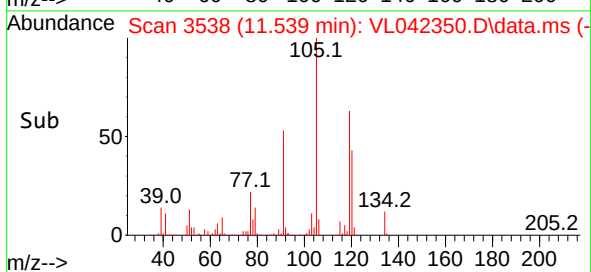
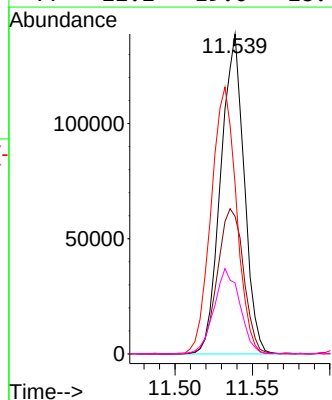
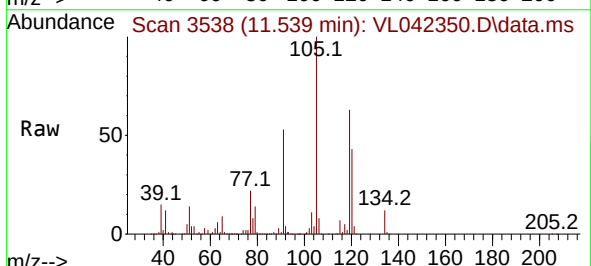
Ion Ratio Lower Upper

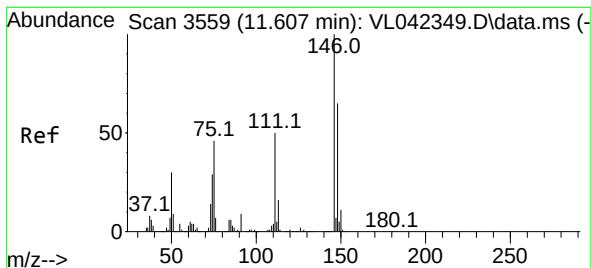
105 100

120 43.0 38.1 57.1

91 53.1 48.8 73.2

77 22.2 19.0 28.4





#75

1,3-Dichlorobenzene

Concen: 2.124 ppbv

RT: 11.607 min Scan# 3559

Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Instrument :

MSVOA_1

ClientSampleId :

VSTDICC002

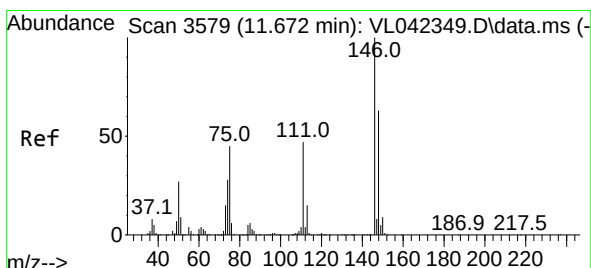
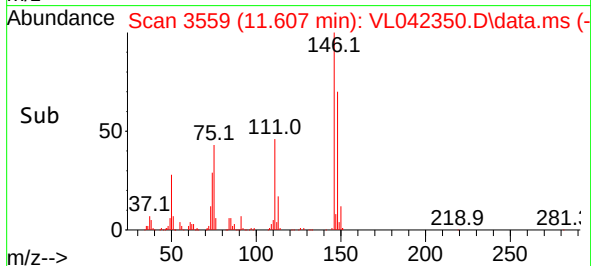
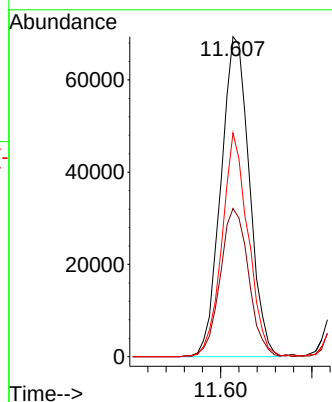
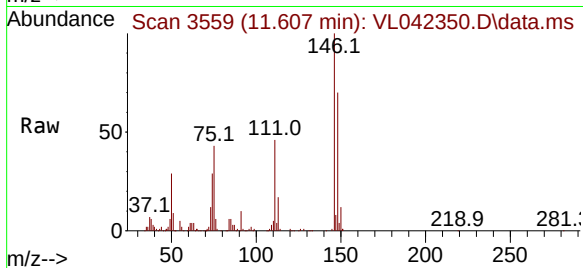
Tgt Ion:146 Resp: 75082

Ion Ratio Lower Upper

146 100

111 46.3 24.3 72.8

148 64.3 31.6 94.8



#76

1,4-Dichlorobenzene

Concen: 2.120 ppbv

RT: 11.671 min Scan# 3579

Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

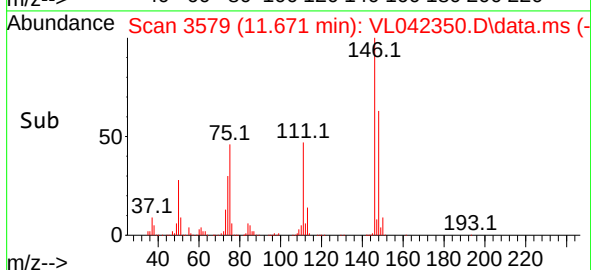
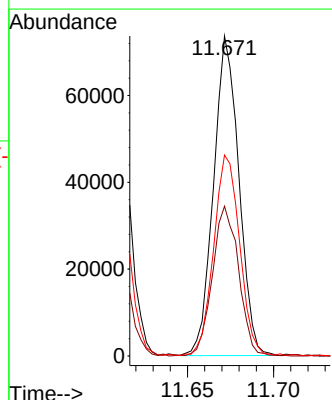
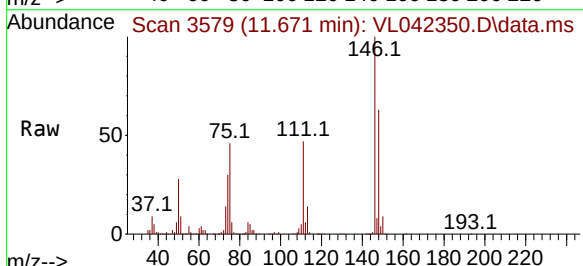
Tgt Ion:146 Resp: 75323

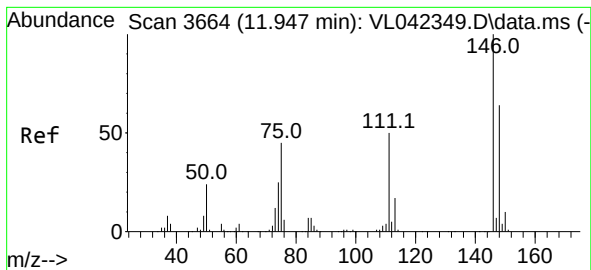
Ion Ratio Lower Upper

146 100

111 48.4 24.2 72.6

148 65.1 32.1 96.5





#77

1,2-Dichlorobenzene

Concen: 2.176 ppbv

RT: 11.947 min Scan# 3

Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

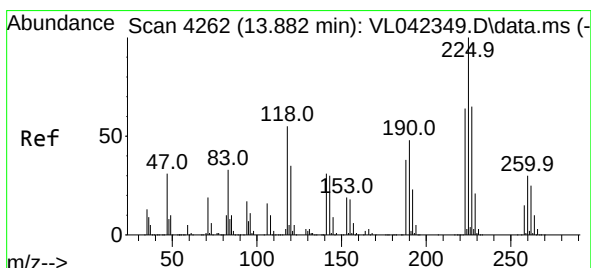
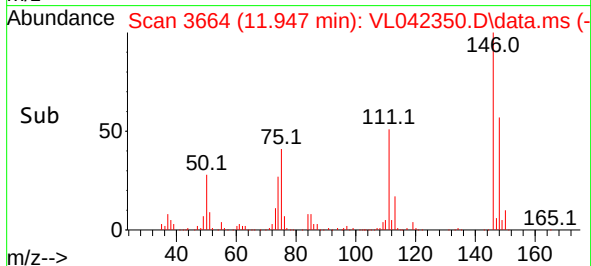
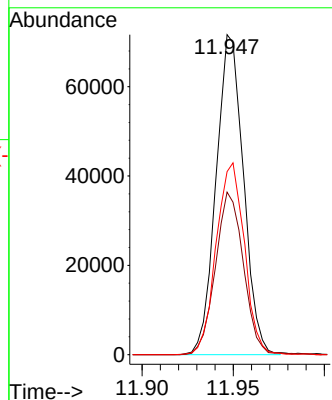
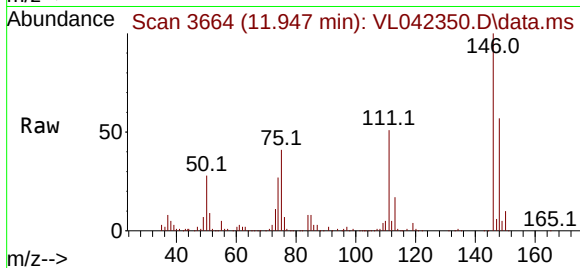
Tgt Ion:146 Resp: 74786

Ion Ratio Lower Upper

146 100

111 52.0 25.3 75.9

148 61.8 31.5 94.5



#78

Hexachloro-1,3-Butadiene

Concen: 2.194 ppbv

RT: 13.882 min Scan# 4262

Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

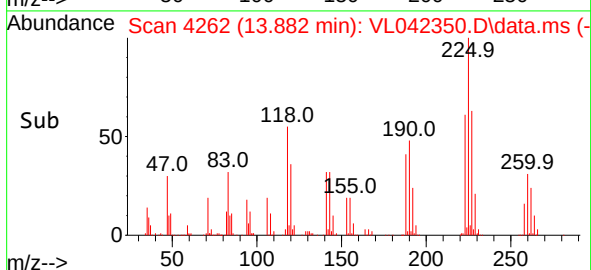
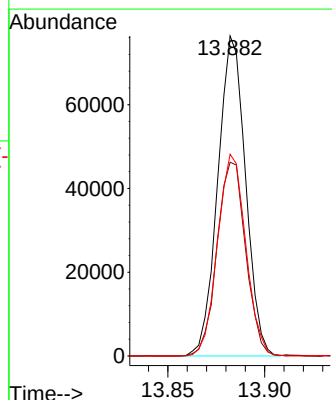
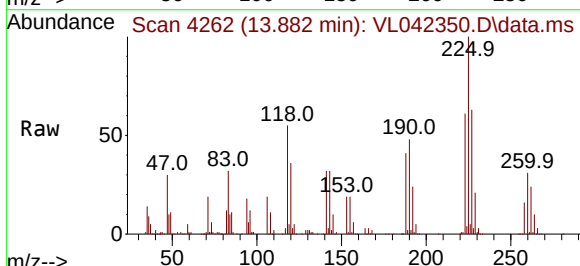
Tgt Ion:225 Resp: 76158

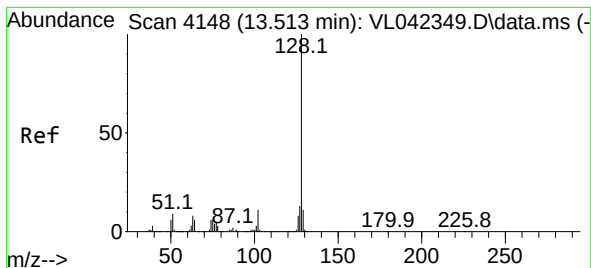
Ion Ratio Lower Upper

225 100

223 62.6 50.3 75.5

227 64.1 51.5 77.3





#79

Naphthalene

Concen: 2.401 ppbv

RT: 13.513 min Scan# 4148

Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC002

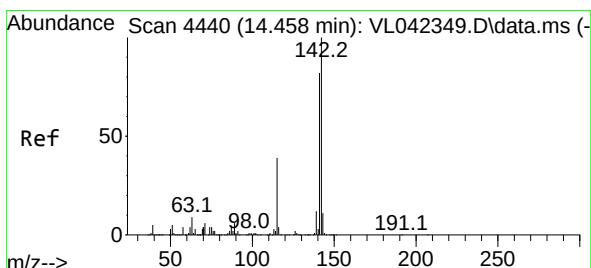
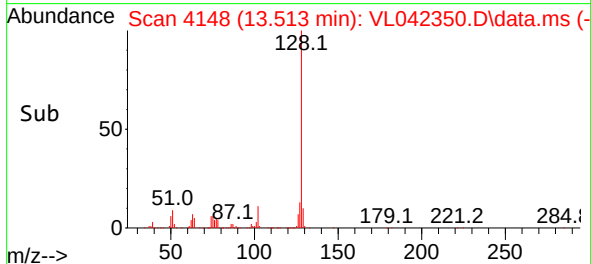
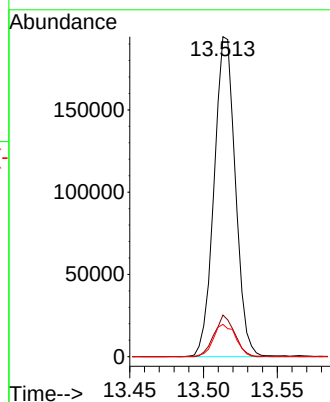
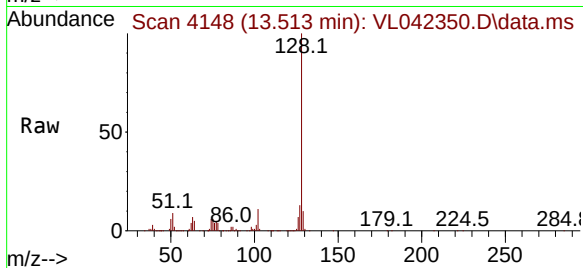
Tgt Ion:128 Resp: 195233

Ion Ratio Lower Upper

128 100

127 13.0 10.6 15.8

129 10.1 8.6 12.8



#80

Naphthalene,2-methyl-

Concen: 2.574 ppbv

RT: 14.458 min Scan# 4440

Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

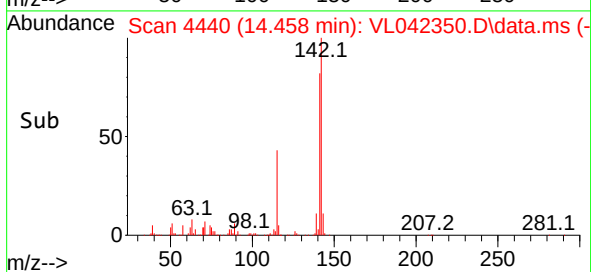
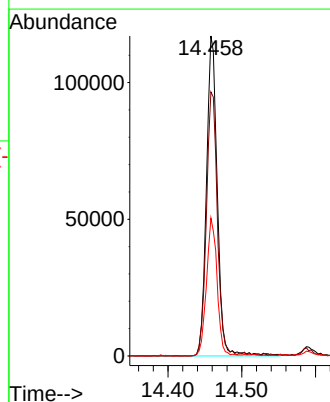
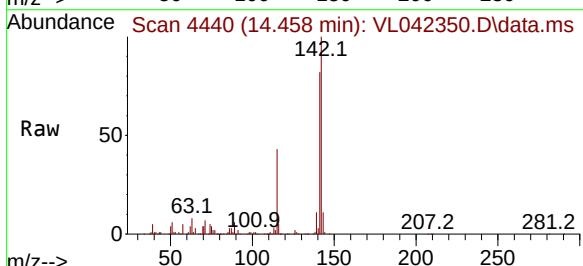
Tgt Ion:142 Resp: 119262

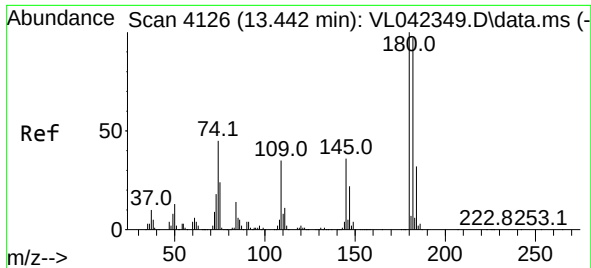
Ion Ratio Lower Upper

142 100

141 84.7 66.8 100.2

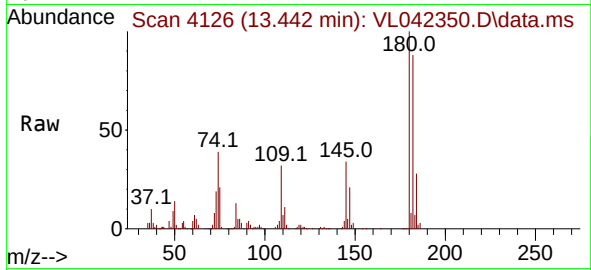
115 42.2 33.4 50.2



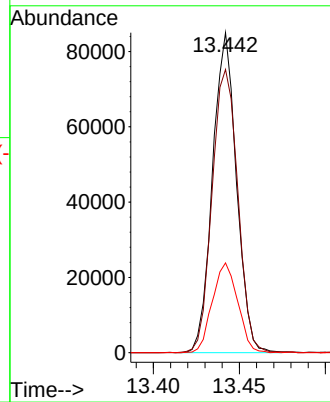
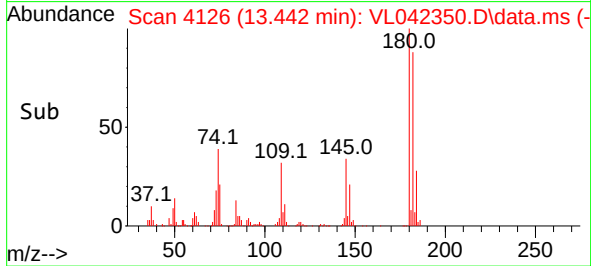


#81
 1,2,4-Trichlorobenzene
 Concen: 2.353 ppbv
 RT: 13.442 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002



Tgt Ion:180 Resp: 82156
 Ion Ratio Lower Upper
 180 100
 182 95.1 76.8 115.2
 184 29.8 24.6 36.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042351.D
 Acq On : 17 Apr 2025 10:48
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Quant Time: Apr 18 01:27:33 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 01:24:29 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.791	49	124177	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	359907	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	329090	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	269087	9.950	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.500%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	22816	1.040	ppbv	93
3) Chlorodifluoromethane	1.476	51	20573	0.985	ppbv	97
4) Chloromethane	1.535	50	9008	1.038	ppbv	99
5) Vinyl Chloride	1.580	62	8807	0.932	ppbv	98
6) Bromomethane	1.671	94	4099	1.001	ppbv	91
7) Chloroethane	1.706	64	3559	1.041	ppbv	90
8) Dichlorotetrafluoroethane	1.554	85	19251	1.022	ppbv	100
9) Propene	1.486	41	9892	1.040	ppbv	92
10) Heptane	4.982	43	16193	0.633	ppbv #	49
11) Trichlorofluoromethane	1.878	101	22428	1.075	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.140	101	17865	1.047	ppbv	98
13) Ethanol	1.722	45	810	1.042	ppbv #	43
14) Bromoethene	1.784	108	6766	1.052	ppbv #	89
15) Acetone	1.839	43	23537	1.158	ppbv	97
16) 1,3-Butadiene	1.609	39	9495	0.995	ppbv	96
17) tert-Butyl alcohol	2.043	59	26477	1.051	ppbv #	90
18) 1,1-Dichloroethene	2.036	96	7890	0.962	ppbv	94
19) Isopropyl Alcohol	1.888	45	12175	1.078	ppbv #	39
20) Methylene Chloride	2.062	84	9046	1.136	ppbv	87
21) Allyl Chloride	2.098	41	15057	1.073	ppbv	91
22) trans-1,2-Dichloroethene	2.344	96	9421	1.038	ppbv	96
23) Vinyl Acetate	2.467	43	9234	1.122	ppbv #	90
24) 1,1-Dichloroethane	2.409	63	18236	1.058	ppbv	99
25) Ethyl Acetate	2.842	43	51494	1.027	ppbv #	97
26) Hexane	2.826	57	21350	1.053	ppbv	95
27) Carbon Disulfide	2.153	76	20739	0.955	ppbv #	1
28) Methyl tert-Butyl Ether	2.444	73	14164	1.066	ppbv #	85
29) Chloroform	2.852	83	28973	1.011	ppbv	100
30) Cyclohexane	3.862	84	8430	0.516	ppbv #	1
31) cis-1,2-Dichloroethene	2.723	61	19904	1.032	ppbv	97
32) 1,1,1-Trichloroethane	3.376	97	31653	1.030	ppbv	98
34) 2-Butanone	2.564	43	29735	1.045	ppbv	99
35) Carbon Tetrachloride	3.768	117	29875	0.917	ppbv	94
36) Benzene	3.661	78	38707	0.997	ppbv	95
37) 1,2-Dichloroethane	3.224	62	23284	0.999	ppbv	97
38) Trichloroethene	4.551	130	16119	0.947	ppbv	96
39) 1,2-Dichloropropane	4.318	63	14866	1.027	ppbv	96
40) 1,4-Dioxane	4.603	88	967	0.123	ppbv #	1
41) Tetrahydrofuran	3.062	42	17259	1.049	ppbv	96
42) Bromodichloromethane	4.490	83	32721	1.009	ppbv #	98
43) Methyl Methacrylate	4.885	69	13084	0.751	ppbv #	47
44) 2,2,4-Trimethylpentane	4.648	57	28653	0.427	ppbv #	21
45) t-1,3-Dichloropropene	6.416	75	11763	0.658	ppbv	99

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 Data File : VL042351.D
 Acq On : 17 Apr 2025 10:48
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

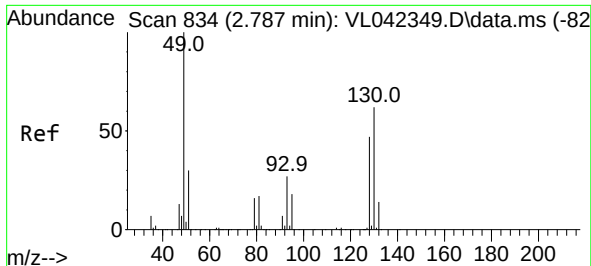
Quant Time: Apr 18 01:27:33 2025
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 01:24:29 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.603	75	13028	0.596	ppbv	95
47) 1,1,2-Trichloroethane	6.587	97	7690	0.521	ppbv #	78
48) Dibromochloromethane	7.390	129	25948	0.997	ppbv	100
49) Bromoform	9.484	173	22413	0.984	ppbv	98
50) 4-Methyl-2-Pentanone	5.765	43	49725	1.049	ppbv	97
51) 2-Hexanone	7.445	43	47178	1.103	ppbv	99
52) Tetrachloroethene	8.228	164	14154	0.943	ppbv	93
53) Toluene	6.940	91	46611	1.001	ppbv	100
54) 1,2-Dibromoethane	7.658	107	21780	1.036	ppbv	93
56) 1,1,1,2-Tetrachloroethane	8.927	131	21052	1.057	ppbv	95
57) Chlorobenzene	8.921	112	35113	1.026	ppbv #	95
58) Ethyl Benzene	9.354	91	68703	1.054	ppbv	96
59) m/p-Xylene	9.552	91	48794	0.926	ppbv #	32
60) o-Xylene	9.966	91	55831	1.056	ppbv	99
61) Styrene	9.872	104	25544	1.012	ppbv	100
62) Isopropylbenzene	10.542	105	81286	1.047	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.966	83	32410	0.943	ppbv	99
64) n-propylbenzene	10.989	120	19898	1.019	ppbv	90
65) tert-Butylbenzene	11.533	119	77598	1.087	ppbv	92
66) Benzyl Chloride	11.617	91	7864	1.003	ppbv #	91
67) sec-Butylbenzene	11.769	105	105919	1.067	ppbv	97
69) p-Isopropyltoluene	11.928	119	92733	1.075	ppbv	97
70) n-Butylbenzene	12.284	91	96306	1.072	ppbv	99
71) 2-Chlorotoluene	10.905	91	63321	1.040	ppbv	99
72) 4-Ethyltoluene	11.128	105	69698	1.078	ppbv	99
73) 1,3,5-Trimethylbenzene	11.206	105	60927	1.067	ppbv	99
74) 1,2,4-Trimethylbenzene	11.539	105	73888	1.108	ppbv	95
75) 1,3-Dichlorobenzene	11.610	146	36877	1.064	ppbv	98
76) 1,4-Dichlorobenzene	11.675	146	36692	1.053	ppbv	98
77) 1,2-Dichlorobenzene	11.950	146	35977	1.068	ppbv	97
78) Hexachloro-1,3-Butadiene	13.886	225	37377	1.098	ppbv	99
79) Naphthalene	13.517	128	90710	1.138	ppbv	99
80) Naphthalene,2-methyl-	14.462	142	50487	1.111	ppbv	98
81) 1,2,4-Trichlorobenzene	13.442	180	36764	1.074	ppbv	99

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

Quant Time: Apr 18 01:27:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
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QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

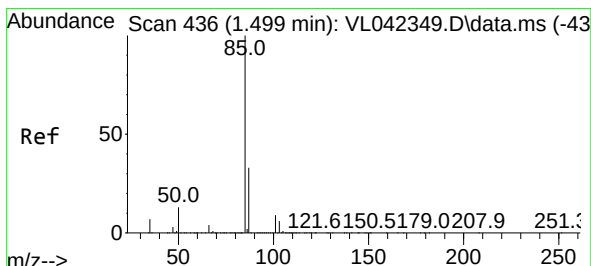
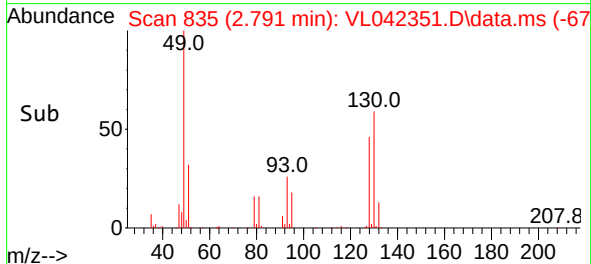
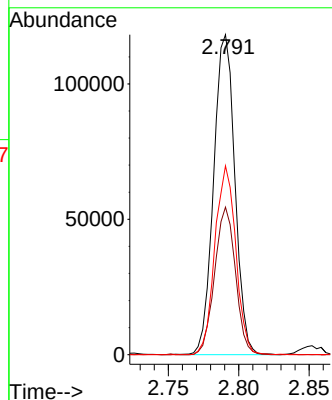
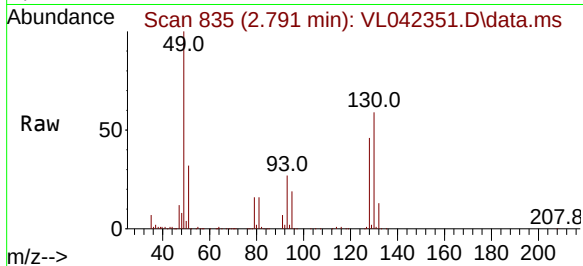




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.791 min Scan# 834
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

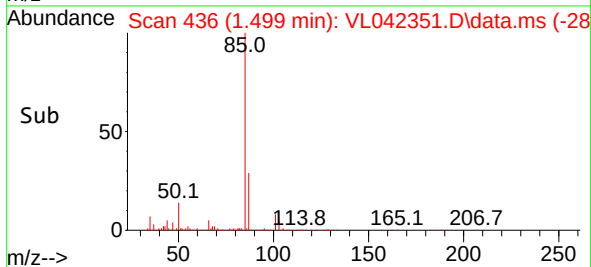
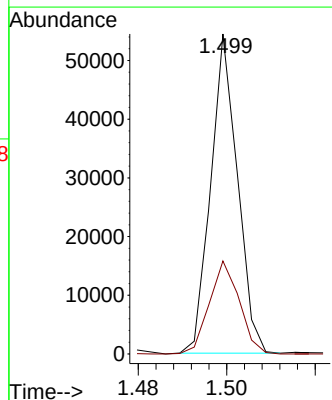
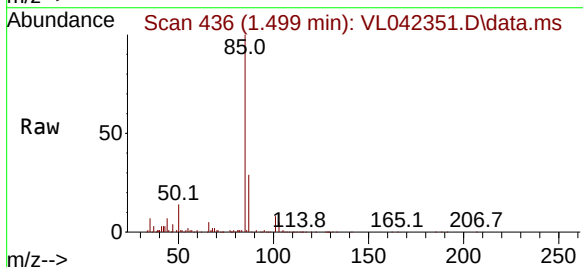
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

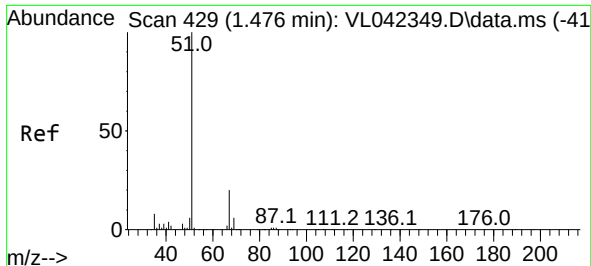
Tgt Ion: 49 Resp: 124177
Ion Ratio Lower Upper
49 100
128 45.2 22.8 68.4
130 58.1 29.3 88.0



#2
Dichlorodifluoromethane
Concen: 1.040 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 85 Resp: 22816
Ion Ratio Lower Upper
85 100
87 29.1 26.6 39.8

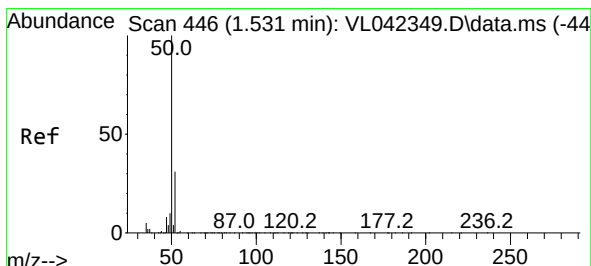
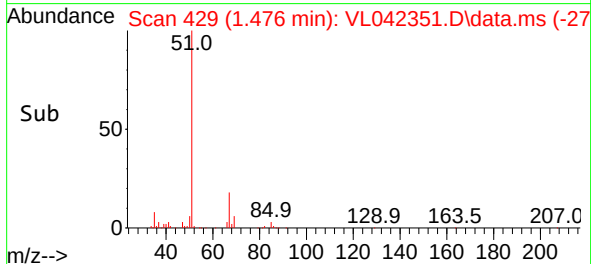
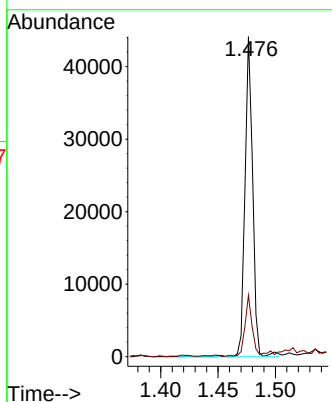
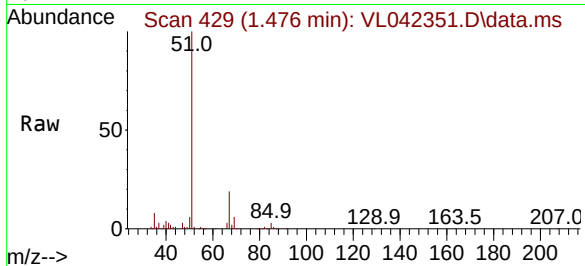




#3
Chlorodifluoromethane
Concen: 0.985 ppbv
RT: 1.476 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

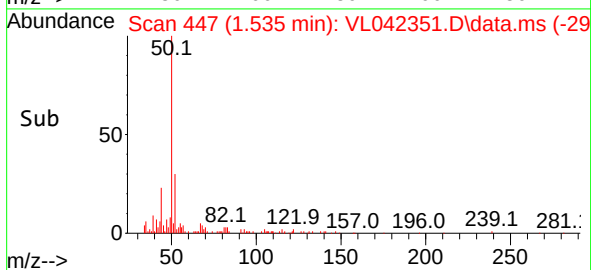
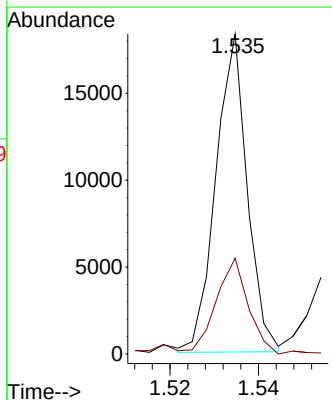
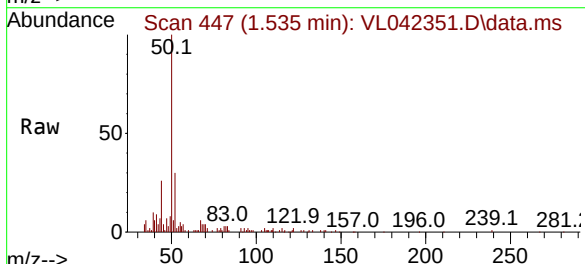
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ClientSampleId :
VSTDICC001

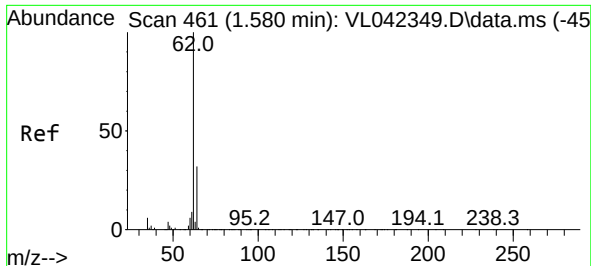
Tgt Ion: 51 Resp: 20573
Ion Ratio Lower Upper
51 100
67 19.1 16.2 24.4



#4
Chloromethane
Concen: 1.038 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 50 Resp: 9008
Ion Ratio Lower Upper
50 100
52 30.4 24.7 37.1

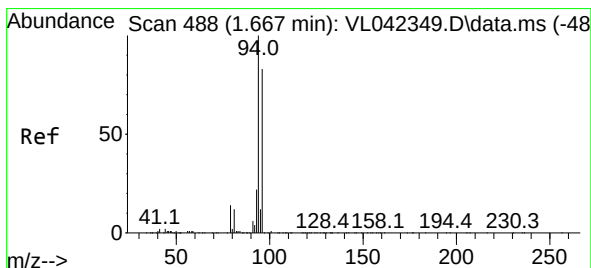
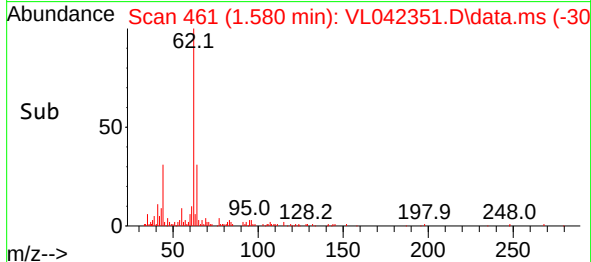
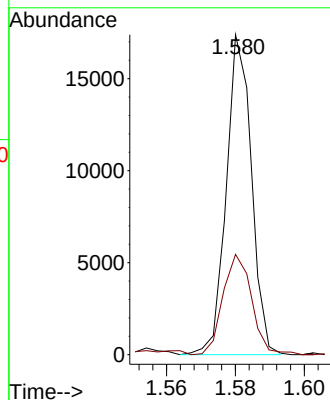
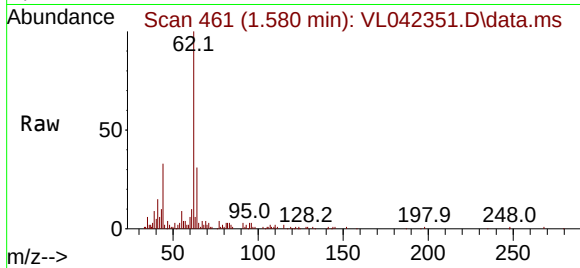




#5
 Vinyl Chloride
 Concen: 0.932 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.000 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

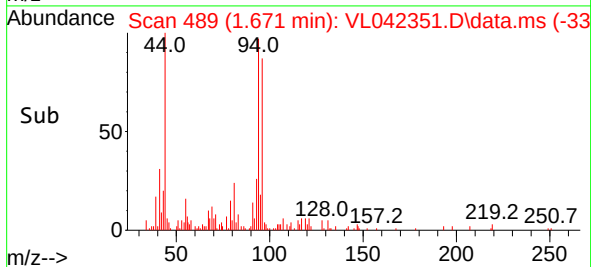
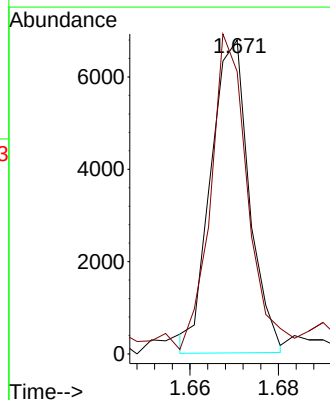
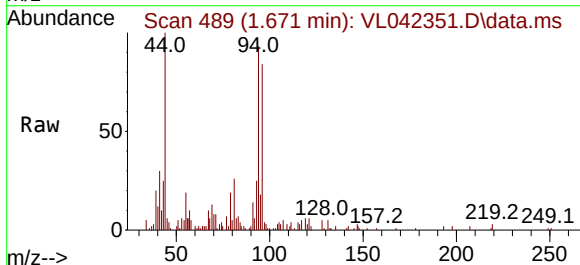
Instrument :
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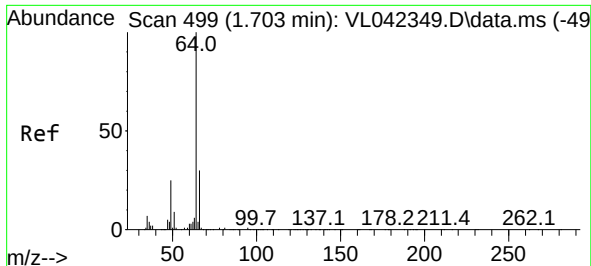
Tgt Ion: 62 Resp: 8807
 Ion Ratio Lower Upper
 62 100
 64 30.5 25.4 38.0



#6
 Bromomethane
 Concen: 1.001 ppbv
 RT: 1.671 min Scan# 489
 Delta R.T. 0.004 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

Tgt Ion: 94 Resp: 4099
 Ion Ratio Lower Upper
 94 100
 96 91.0 66.2 99.2

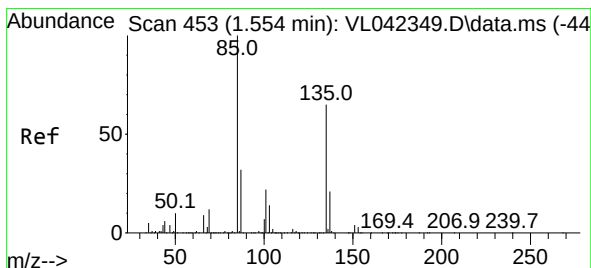
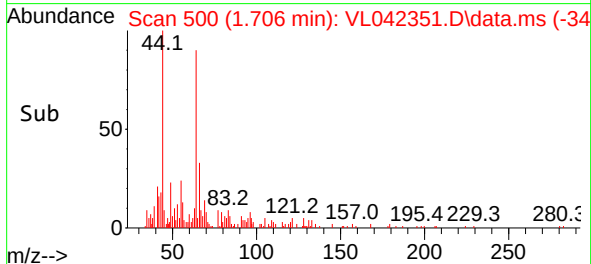
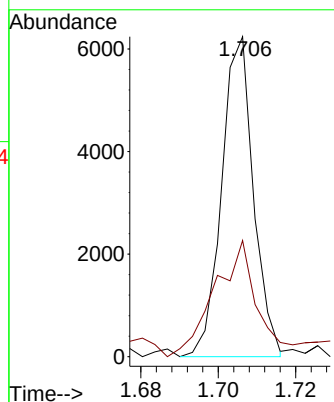
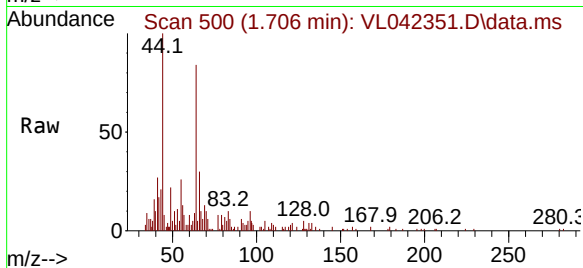




#7
Chloroethane
Concen: 1.041 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

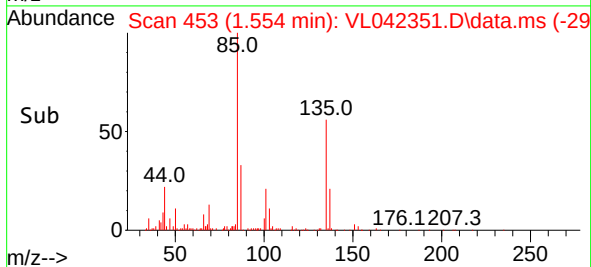
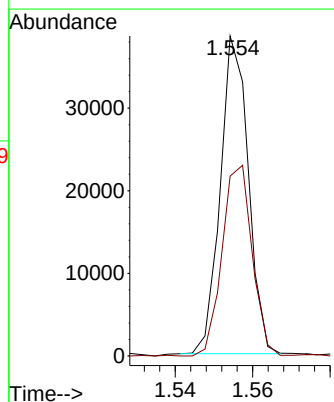
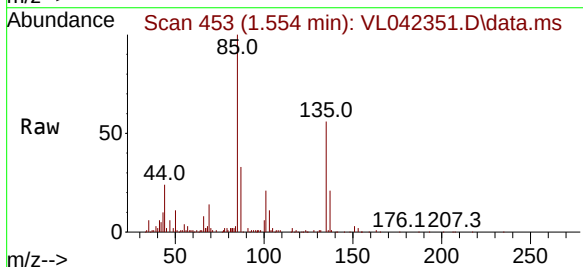
Instrument :
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ClientSampleId :
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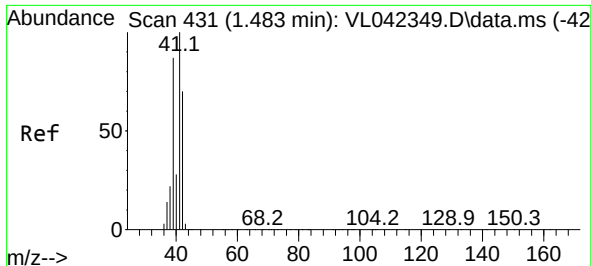
Tgt Ion: 64 Resp: 3559
Ion Ratio Lower Upper
64 100
66 36.3 24.6 37.0



#8
Dichlorotetrafluoroethane
Concen: 1.022 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 85 Resp: 19251
Ion Ratio Lower Upper
85 100
135 65.2 52.2 78.2





#9

Propene

Concen: 1.040 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.004 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA_L

ClientSampleId :

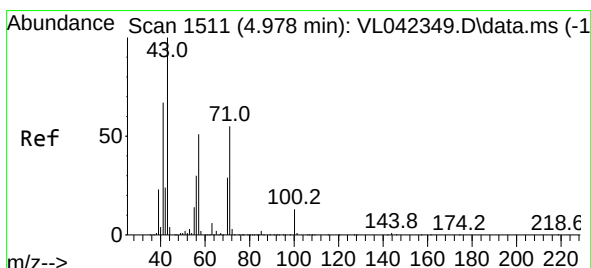
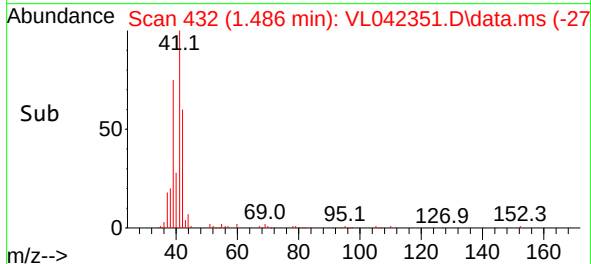
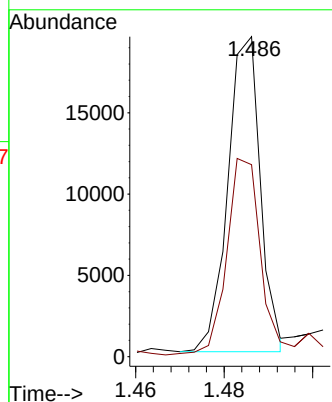
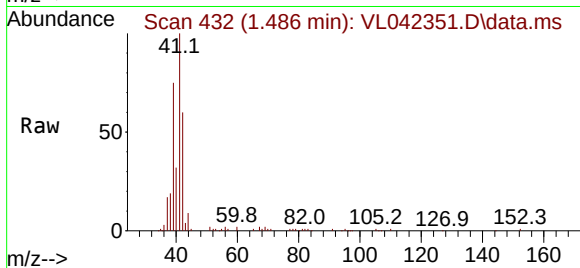
VSTDIC001

Tgt Ion: 41 Resp: 9892

Ion Ratio Lower Upper

41 100

42 77.2 56.2 84.4



#10

Heptane

Concen: 0.633 ppbv

RT: 4.982 min Scan# 1512

Delta R.T. 0.004 min

Lab File: VL042351.D

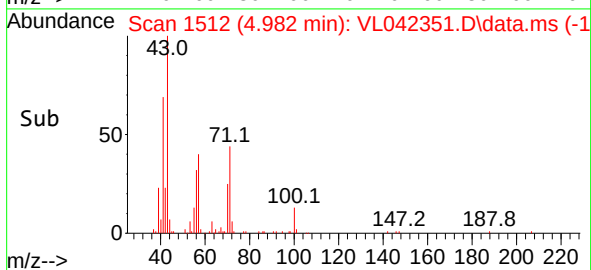
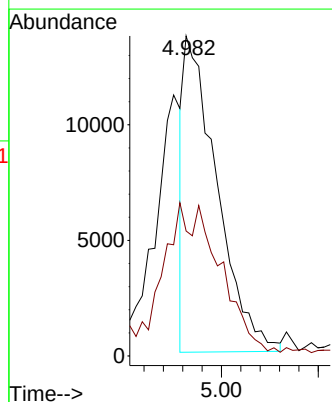
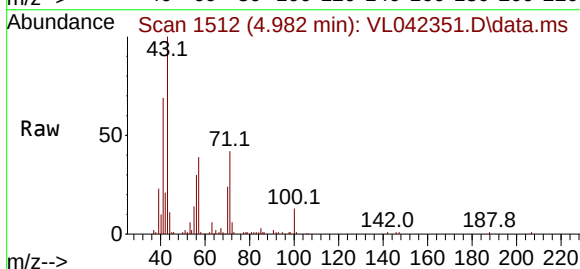
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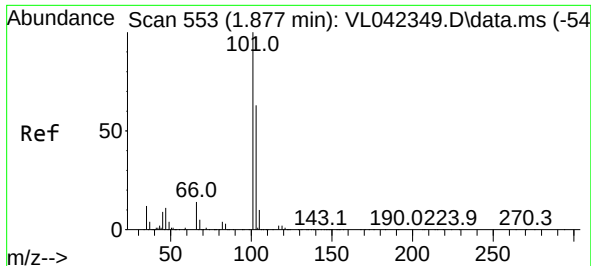
Tgt Ion: 43 Resp: 16193

Ion Ratio Lower Upper

43 100

57 84.7 39.9 59.9#

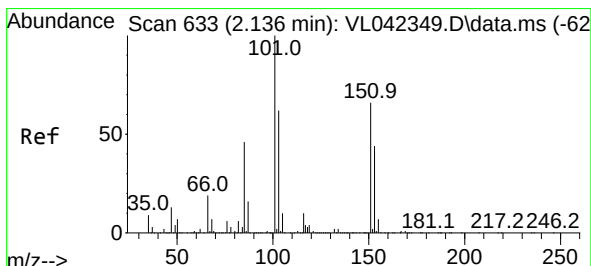
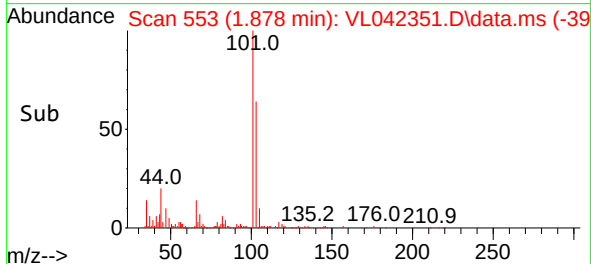
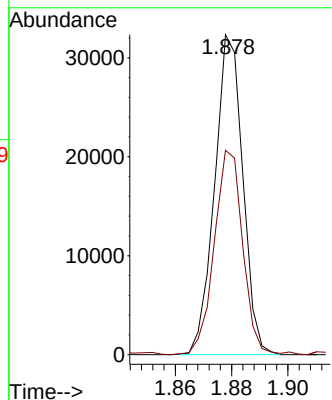
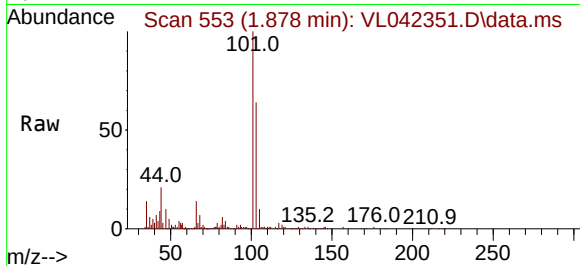




#11
 Trichlorofluoromethane
 Concen: 1.075 ppbv
 RT: 1.878 min Scan# 51
 Delta R.T. 0.000 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

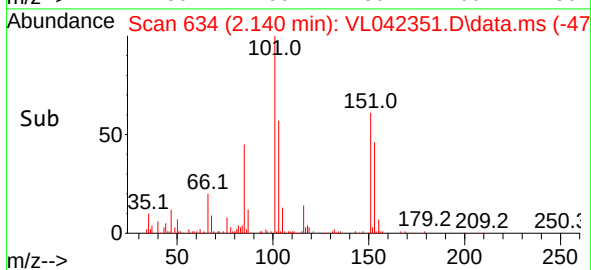
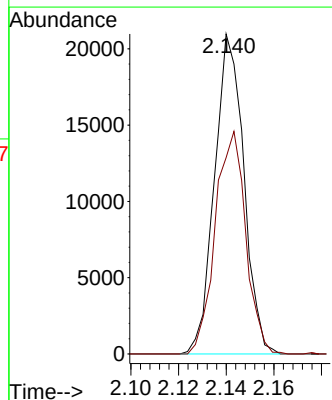
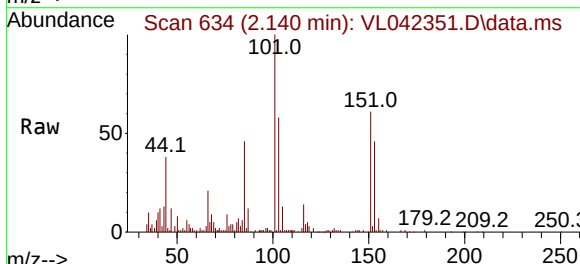
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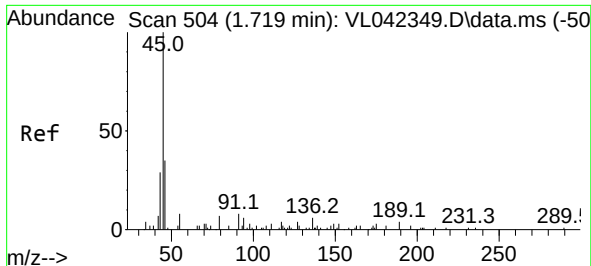
Tgt Ion:101 Resp: 22428
 Ion Ratio Lower Upper
 101 100
 103 63.6 50.1 75.1



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 1.047 ppbv
 RT: 2.140 min Scan# 634
 Delta R.T. 0.004 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

Tgt Ion:101 Resp: 17865
 Ion Ratio Lower Upper
 101 100
 151 72.6 57.0 85.6

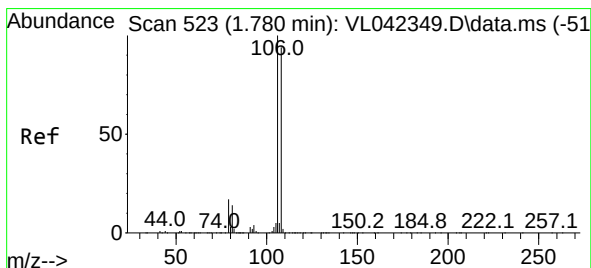
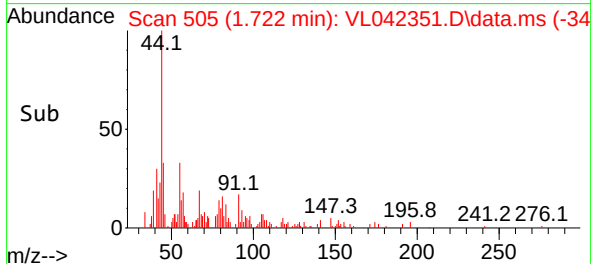
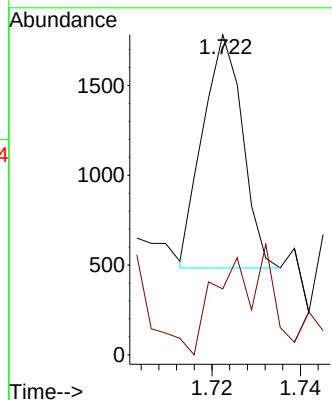
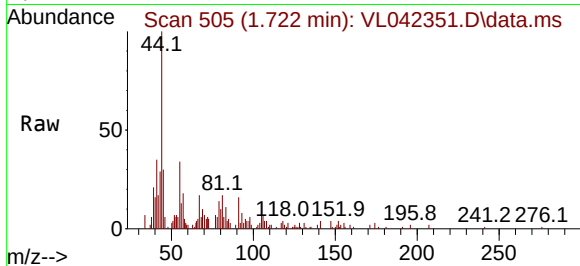




#13
Ethanol
Concen: 1.042 ppbv
RT: 1.722 min Scan# 504
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

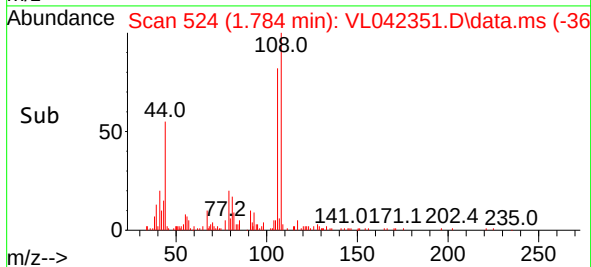
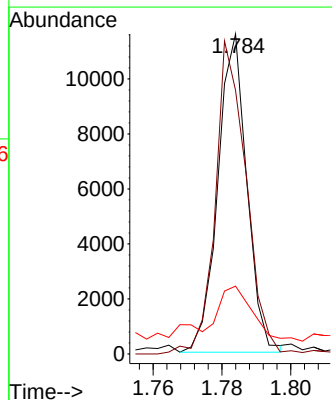
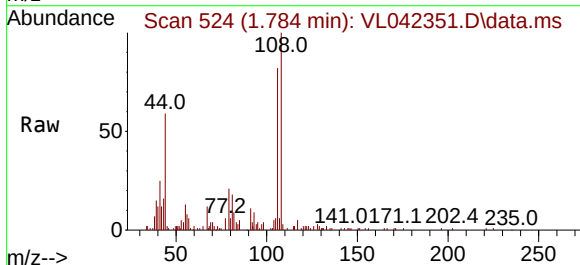
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

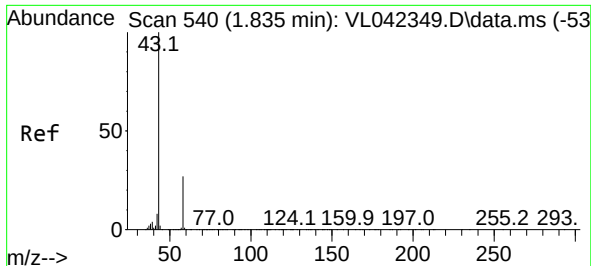
Tgt Ion: 45 Resp: 810
Ion Ratio Lower Upper
45 100
46 95.8 21.9 87.7#



#14
Bromoethene
Concen: 1.052 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 108 Resp: 6766
Ion Ratio Lower Upper
108 100
106 104.7 85.9 128.9
79 45.4 13.9 20.9#





#15

Acetone

Concen: 1.158 ppbv

RT: 1.839 min Scan# 540

Delta R.T. 0.004 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA_L

ClientSampleId :

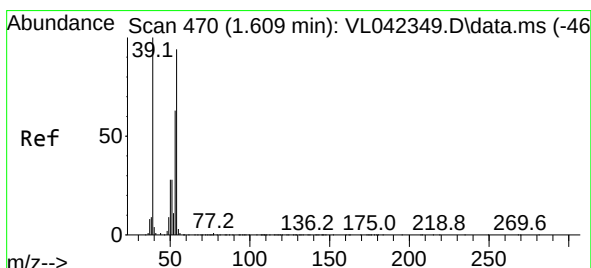
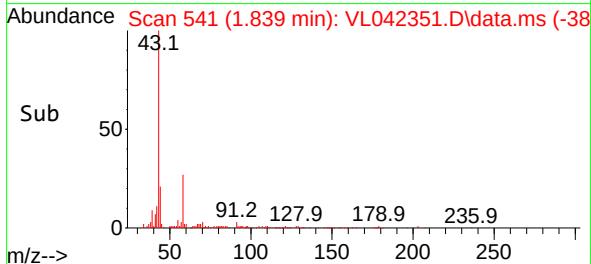
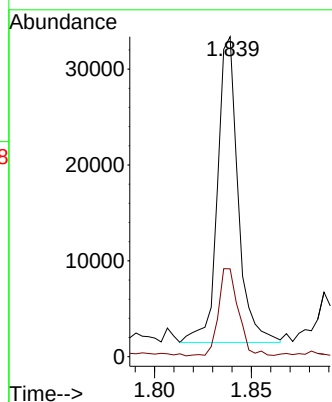
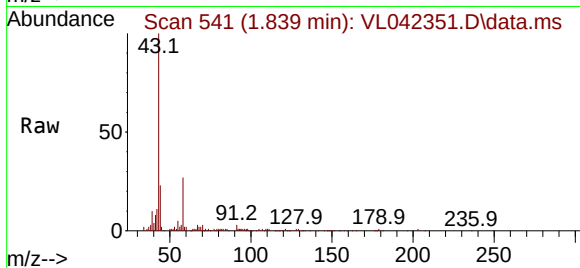
VSTDIC001

Tgt Ion: 43 Resp: 23537

Ion Ratio Lower Upper

43 100

58 29.4 22.4 33.6



#16

1,3-Butadiene

Concen: 0.995 ppbv

RT: 1.609 min Scan# 470

Delta R.T. 0.000 min

Lab File: VL042351.D

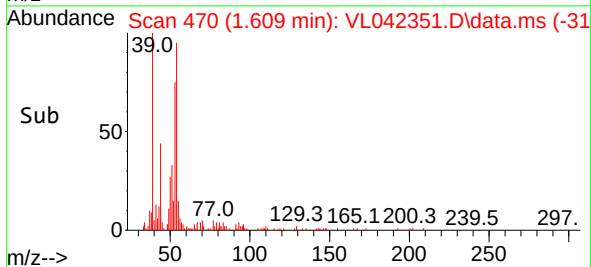
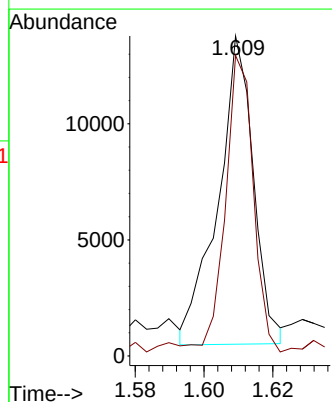
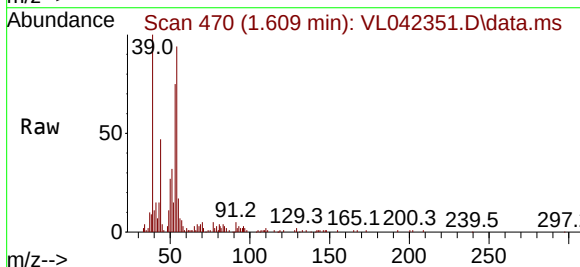
Acq: 17 Apr 2025 10:48

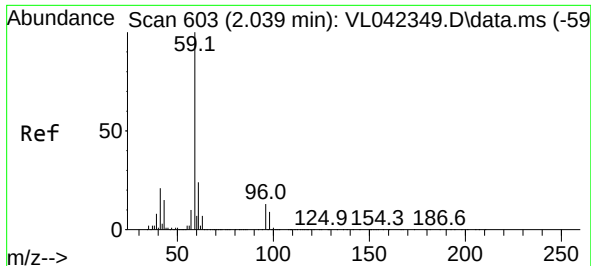
Tgt Ion: 39 Resp: 9495

Ion Ratio Lower Upper

39 100

54 77.6 64.9 97.3

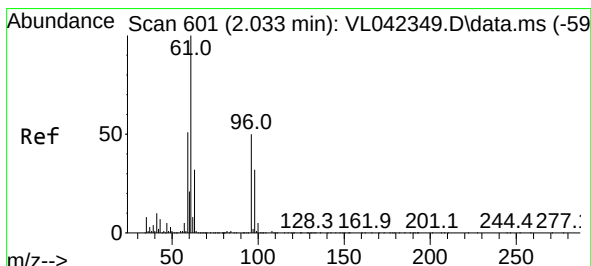
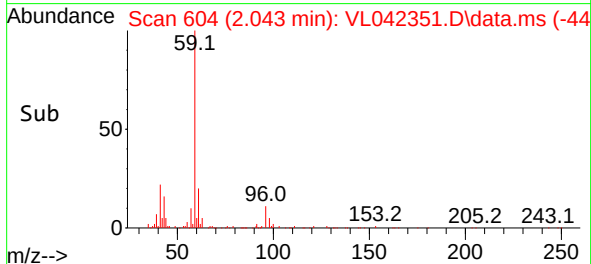
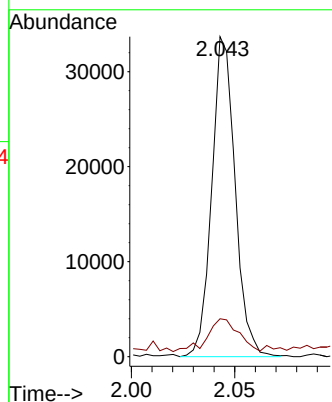
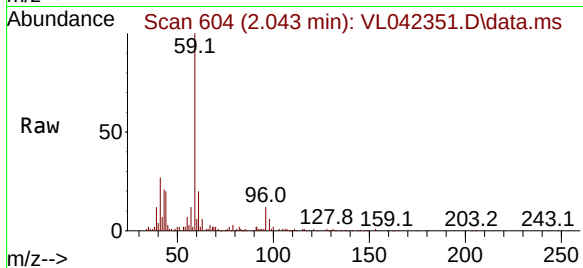




#17
tert-Butyl alcohol
Concen: 1.051 ppbv
RT: 2.043 min Scan# 603
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

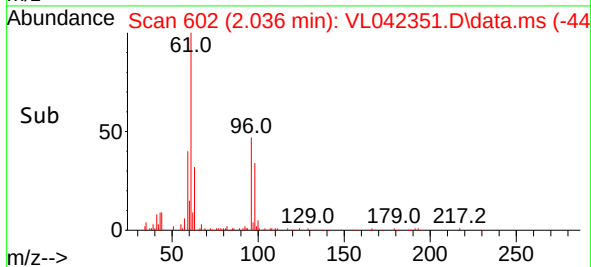
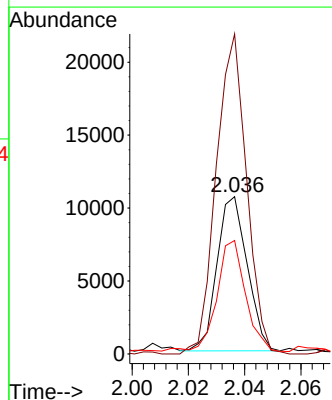
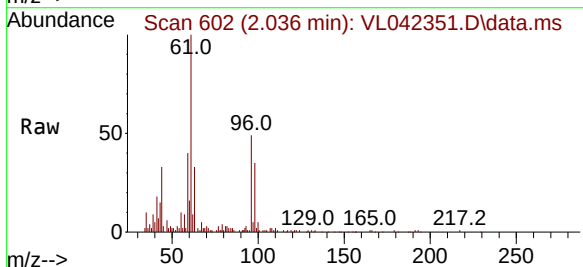
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

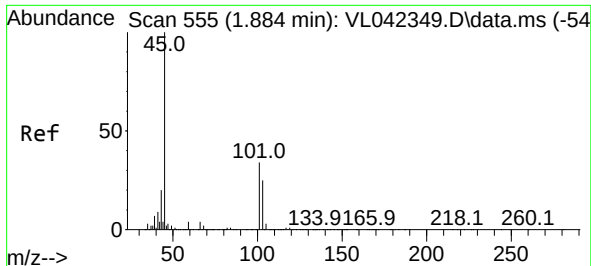
Tgt Ion: 59 Resp: 26477
Ion Ratio Lower Upper
59 100
57 14.6 8.7 13.1#



#18
1,1-Dichloroethene
Concen: 0.962 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 96 Resp: 7890
Ion Ratio Lower Upper
96 100
61 207.8 160.2 240.2
98 71.9 51.0 76.4

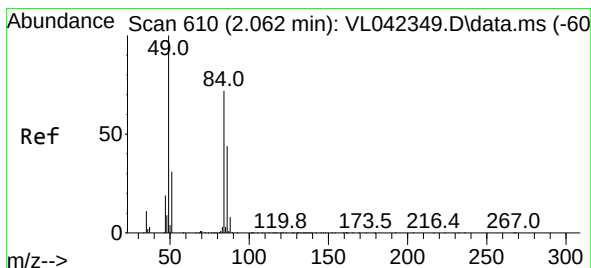
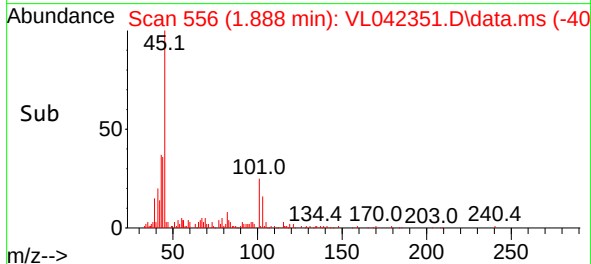
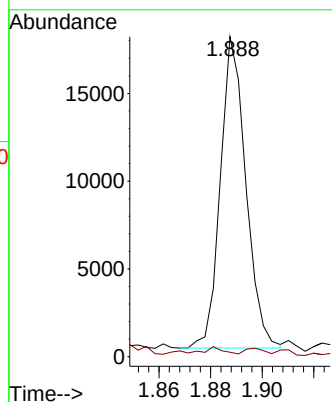
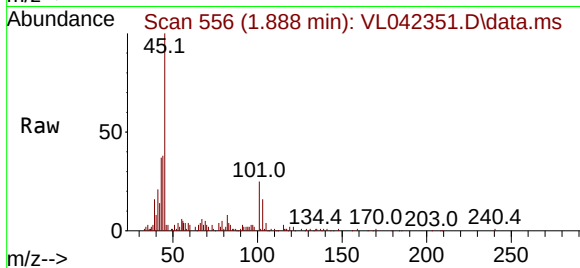




#19
Isopropyl Alcohol
Concen: 1.078 ppbv
RT: 1.888 min Scan# 511
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

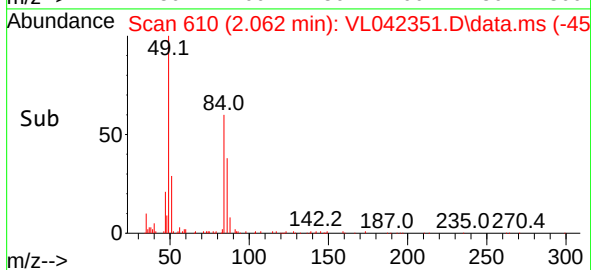
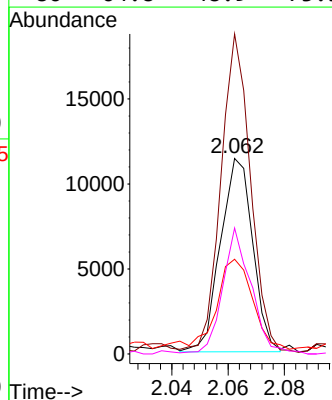
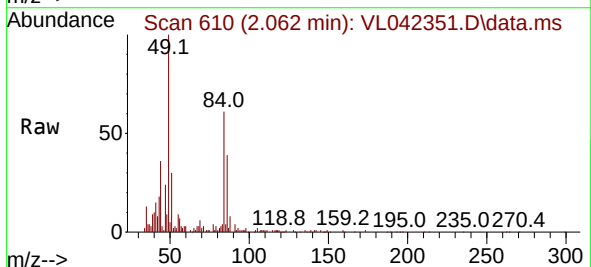
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

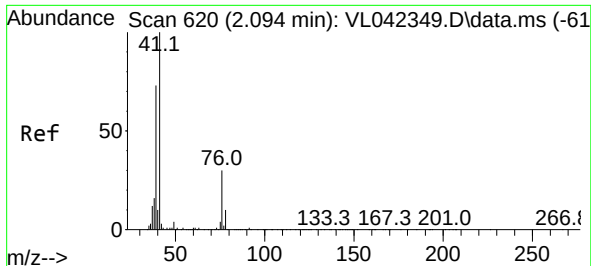
Tgt Ion: 45 Resp: 12175
Ion Ratio Lower Upper
45 100
58 3.8 34.5 51.7#



#20
Methylene Chloride
Concen: 1.136 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 84 Resp: 9046
Ion Ratio Lower Upper
84 100
49 164.4 111.6 167.4
51 44.4 35.1 52.7
86 64.8 48.9 73.3

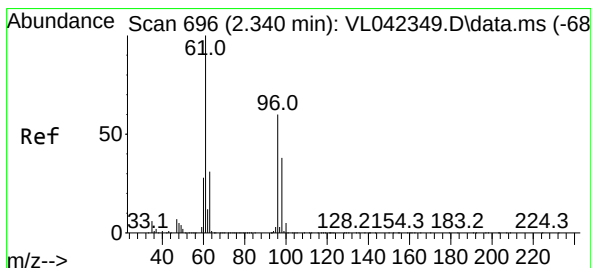
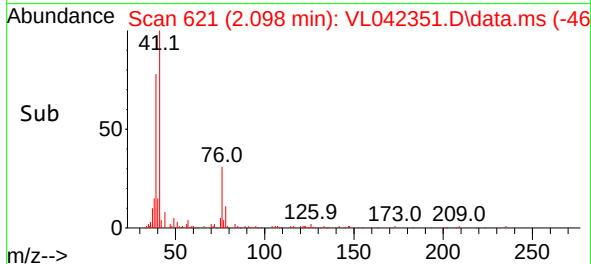
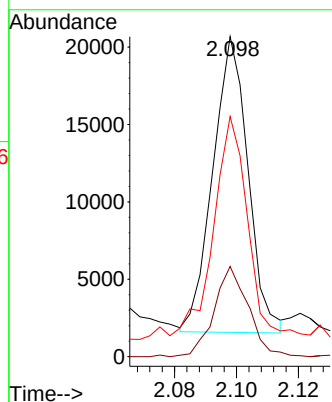
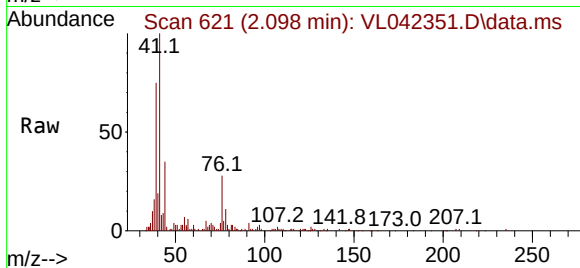




#21
 Allyl Chloride
 Concen: 1.073 ppbv
 RT: 2.098 min Scan# 61
 Delta R.T. 0.004 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

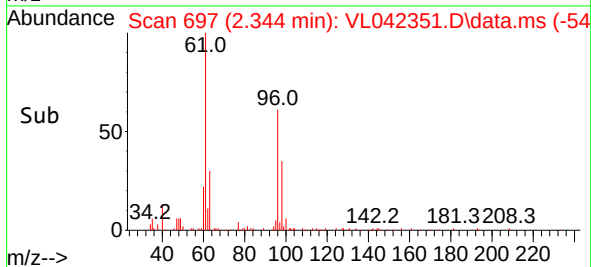
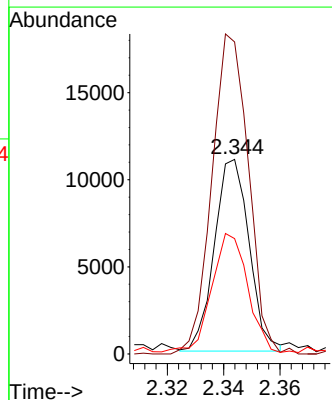
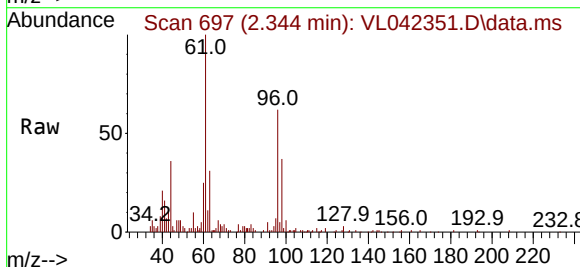
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

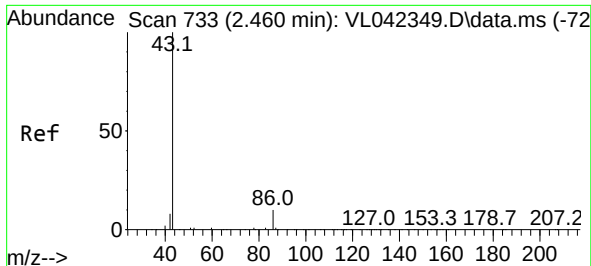
Tgt Ion: 41 Resp: 15057
 Ion Ratio Lower Upper
 41 100
 76 29.8 24.8 37.2
 39 86.1 60.6 90.8



#22
 trans-1,2-Dichloroethene
 Concen: 1.038 ppbv
 RT: 2.344 min Scan# 697
 Delta R.T. 0.004 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

Tgt Ion: 96 Resp: 9421
 Ion Ratio Lower Upper
 96 100
 61 161.7 133.7 200.5
 98 59.8 50.3 75.5

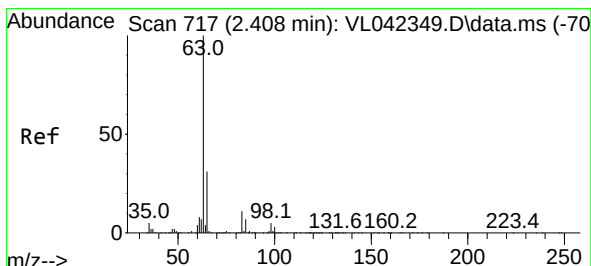
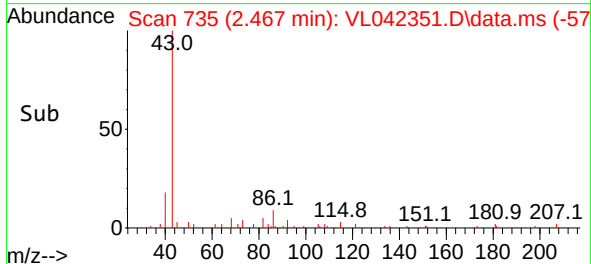
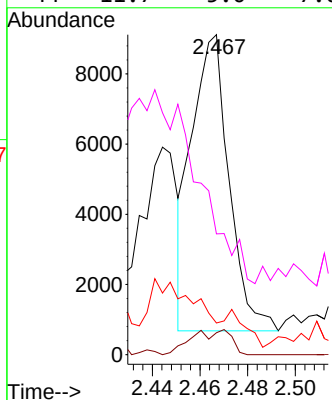
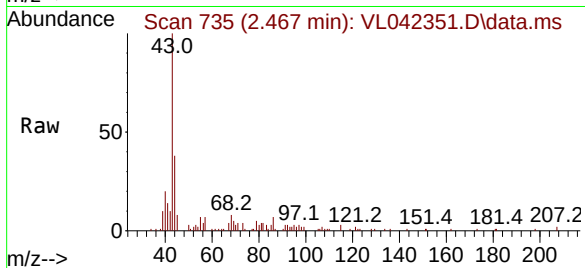




#23
 Vinyl Acetate
 Concen: 1.122 ppbv
 RT: 2.467 min Scan# 717
 Delta R.T. 0.007 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

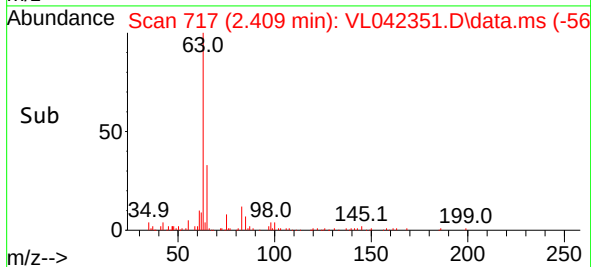
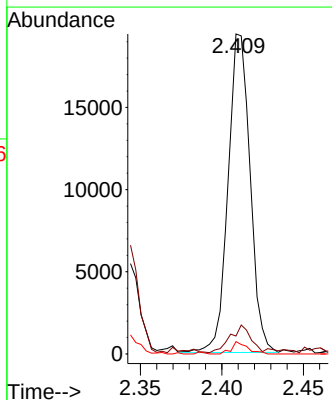
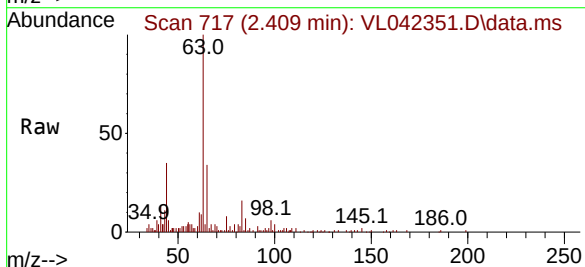
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

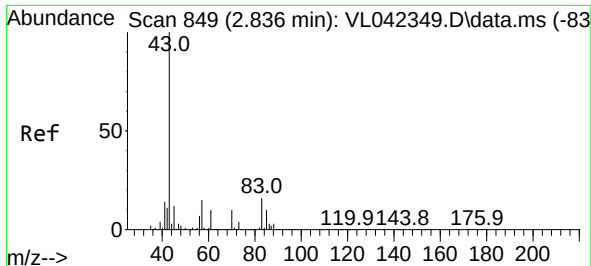
Tgt Ion:	43	Resp:	9234
Ion	Ratio	Lower	Upper
43	100		
86	7.4	6.5	9.7
42	4.6	7.8	11.8#
44	11.7	5.0	7.6#



#24
 1,1-Dichloroethane
 Concen: 1.058 ppbv
 RT: 2.409 min Scan# 717
 Delta R.T. 0.000 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

Tgt Ion:	63	Resp:	18236
Ion	Ratio	Lower	Upper
63	100		
98	4.7	2.3	6.8
100	3.9	1.6	4.8

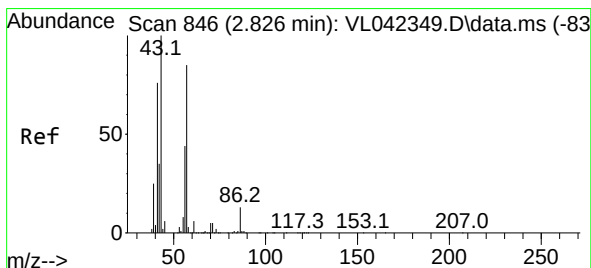
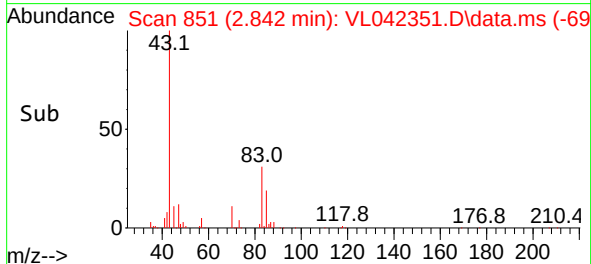
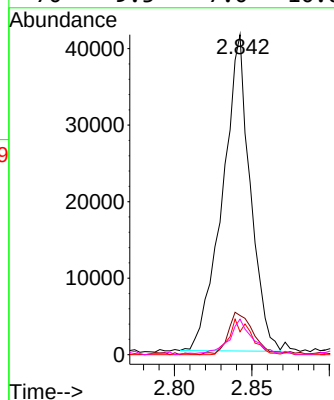
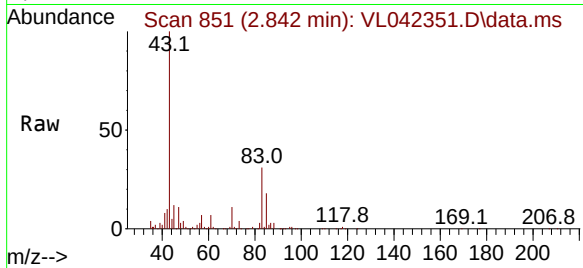




#25
Ethyl Acetate
Concen: 1.027 ppbv
RT: 2.842 min Scan# 849
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

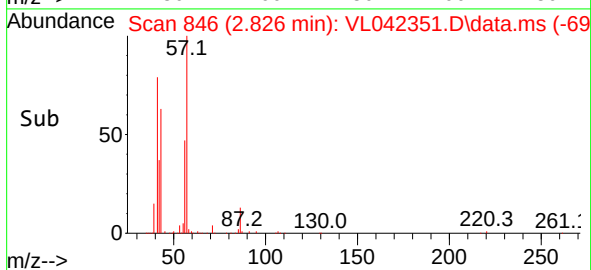
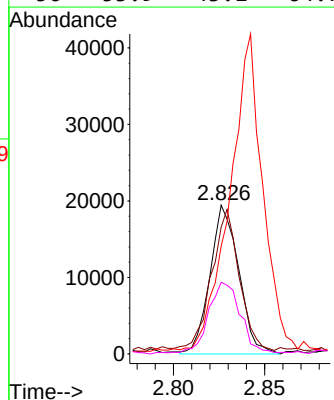
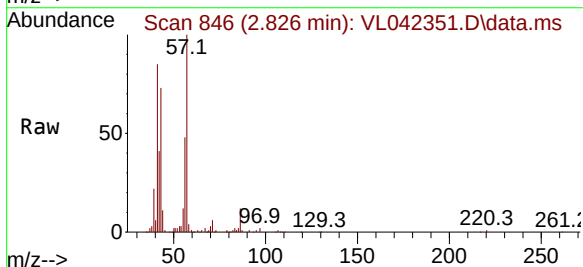
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

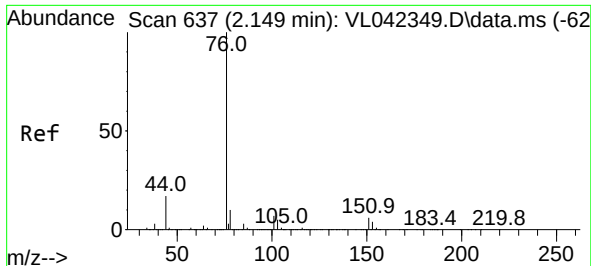
Tgt Ion: 43 Resp: 51494
Ion Ratio Lower Upper
43 100
45 13.1 8.3 12.5#
61 9.0 7.3 10.9
70 9.3 7.0 10.6



#26
Hexane
Concen: 1.053 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 57 Resp: 21350
Ion Ratio Lower Upper
57 100
41 95.3 77.9 116.9
43 247.5 208.4 312.6
56 53.9 43.1 64.7





#27

Carbon Disulfide

Concen: 0.955 ppbv

RT: 2.153 min Scan# 61

Delta R.T. 0.004 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC001

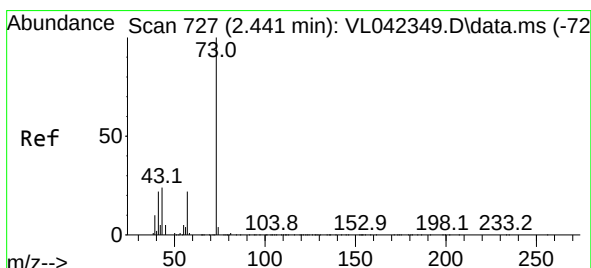
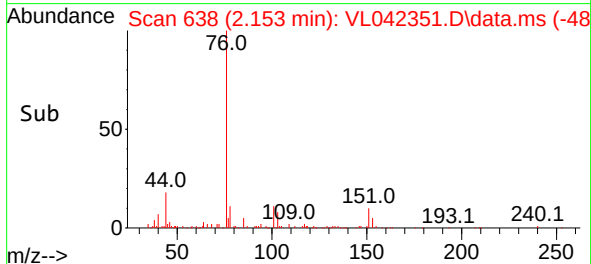
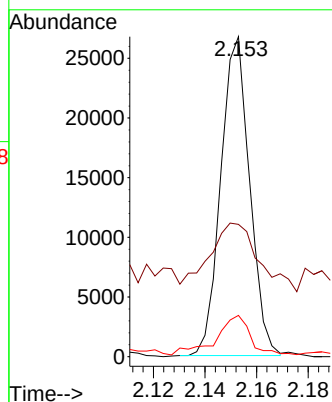
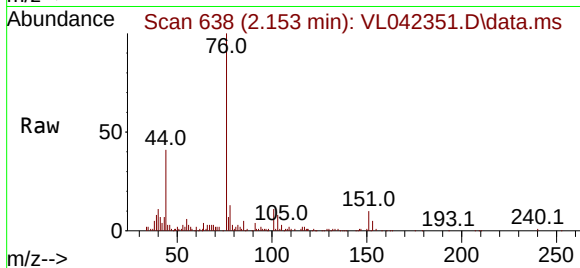
Tgt Ion: 76 Resp: 20739

Ion Ratio Lower Upper

76 100

44 93.1 15.5 23.3#

78 19.8 9.3 13.9#



#28

Methyl tert-Butyl Ether

Concen: 1.066 ppbv

RT: 2.444 min Scan# 728

Delta R.T. 0.004 min

Lab File: VL042351.D

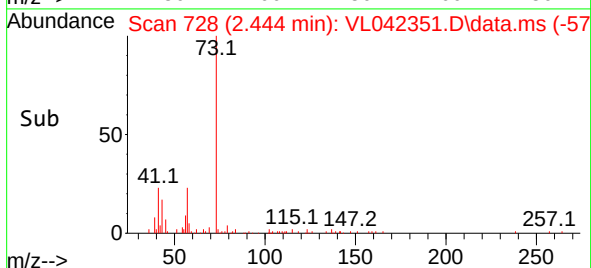
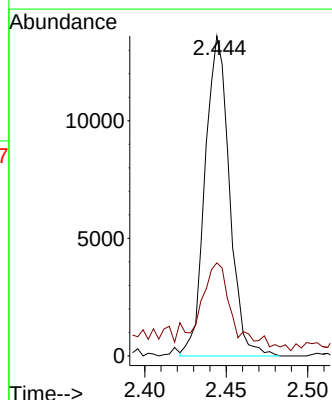
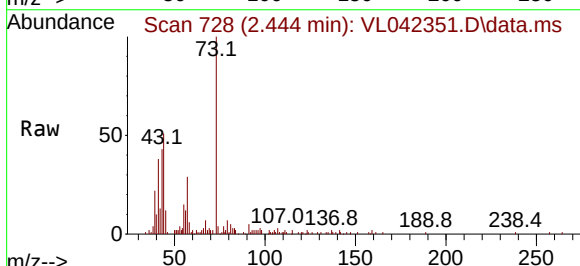
Acq: 17 Apr 2025 10:48

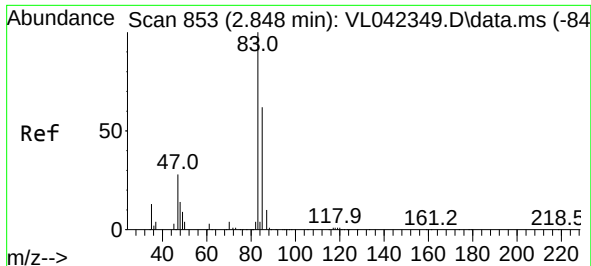
Tgt Ion: 73 Resp: 14164

Ion Ratio Lower Upper

73 100

57 34.2 21.3 31.9#





#29

Chloroform

Concen: 1.011 ppbv

RT: 2.852 min Scan# 854

Delta R.T. 0.004 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA_L

ClientSampleId :

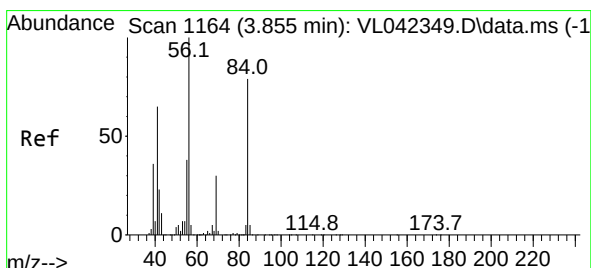
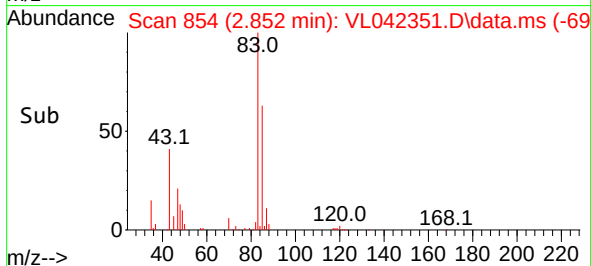
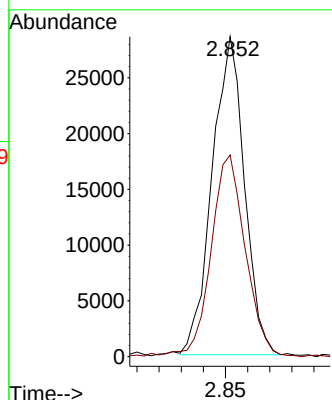
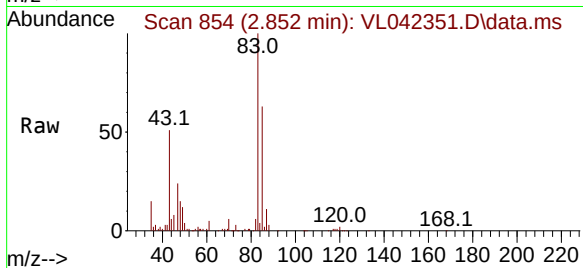
VSTDIC001

Tgt Ion: 83 Resp: 28973

Ion Ratio Lower Upper

83 100

85 62.6 50.0 75.0



#30

Cyclohexane

Concen: 0.516 ppbv

RT: 3.862 min Scan# 1166

Delta R.T. 0.007 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

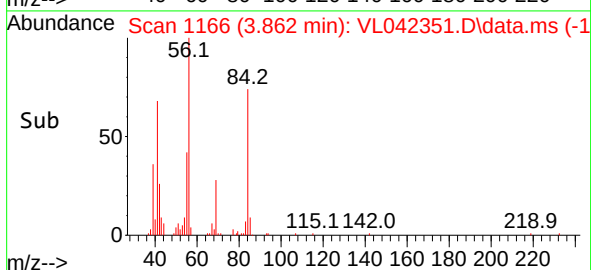
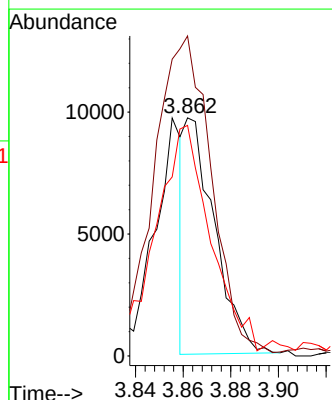
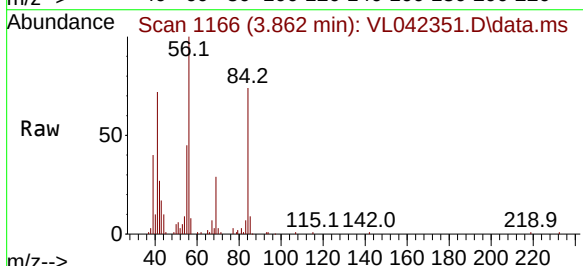
Tgt Ion: 84 Resp: 8430

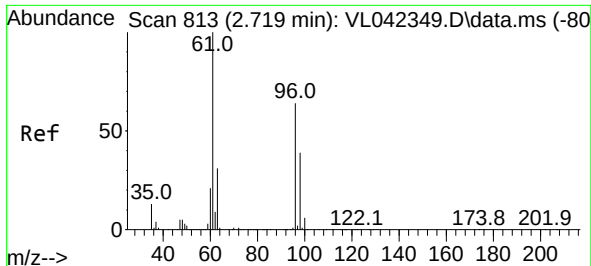
Ion Ratio Lower Upper

84 100

56 263.5 101.0 151.4#

41 167.0 67.4 101.0#

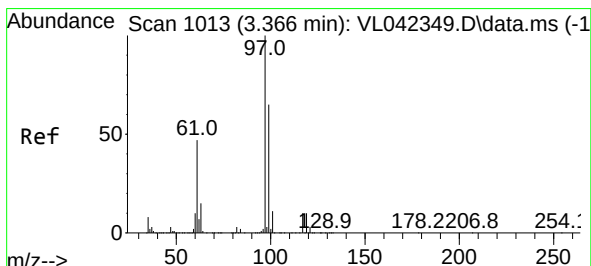
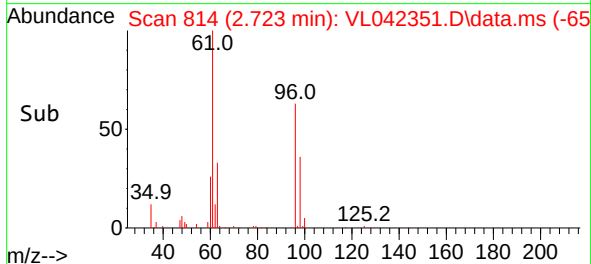
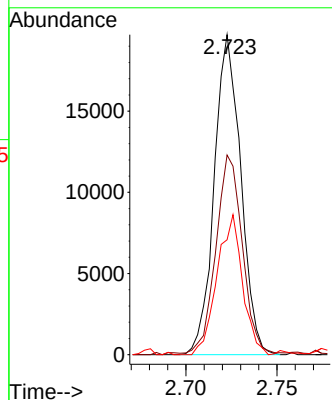
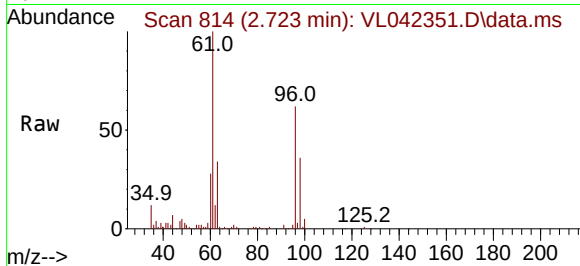




#31
 cis-1,2-Dichloroethene
 Concen: 1.032 ppbv
 RT: 2.723 min Scan# 813
 Delta R.T. 0.004 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

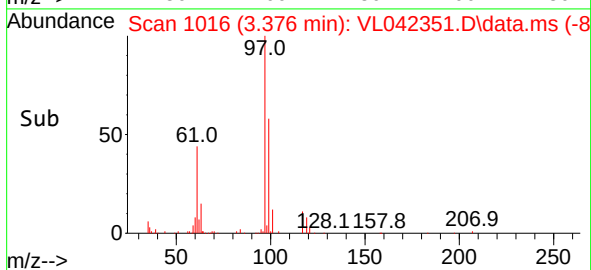
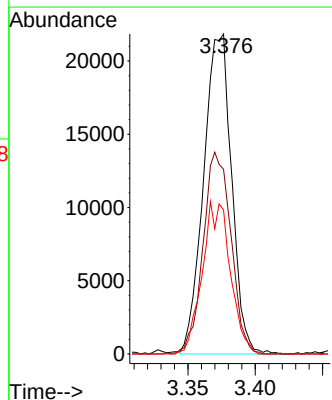
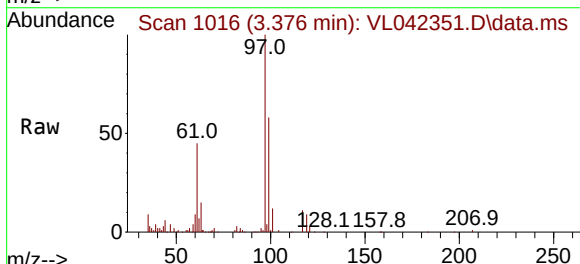
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

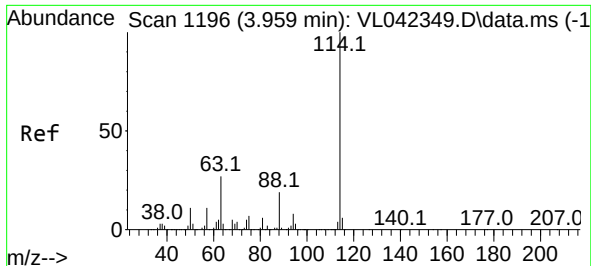
Tgt Ion: 61 Resp: 19904
 Ion Ratio Lower Upper
 61 100
 96 61.9 50.8 76.2
 98 35.9 30.9 46.3



#32
 1,1,1-Trichloroethane
 Concen: 1.030 ppbv
 RT: 3.376 min Scan# 1016
 Delta R.T. 0.010 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

Tgt Ion: 97 Resp: 31653
 Ion Ratio Lower Upper
 97 100
 99 62.4 51.0 76.4
 61 47.6 38.8 58.2

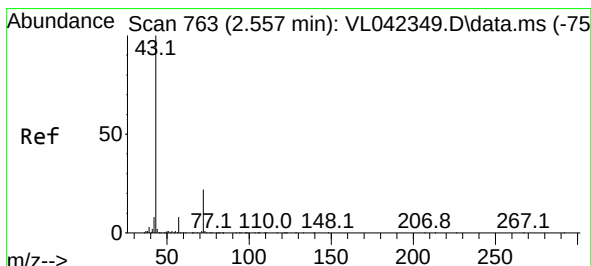
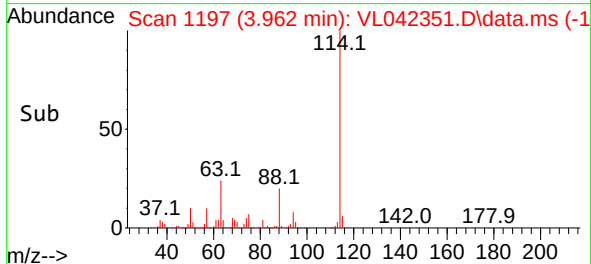
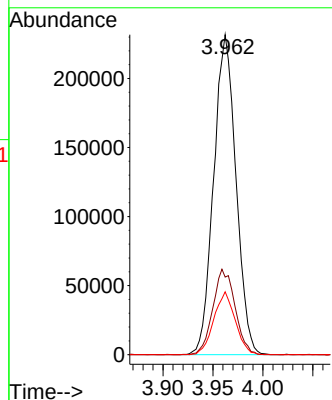
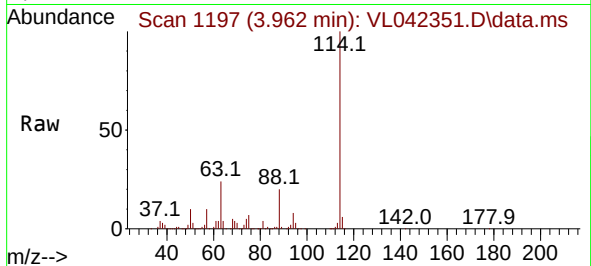




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.962 min Scan# 1196
 Delta R.T. 0.004 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

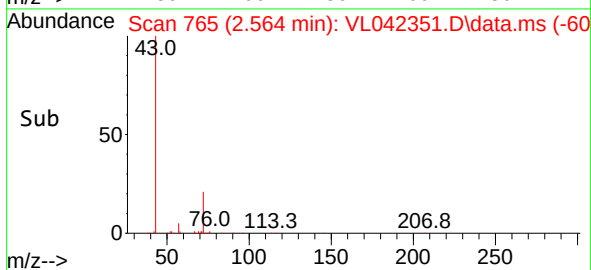
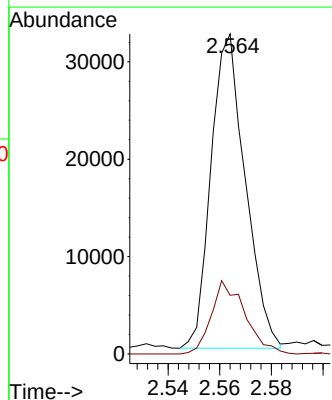
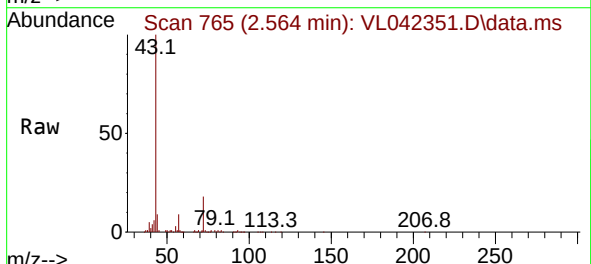
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

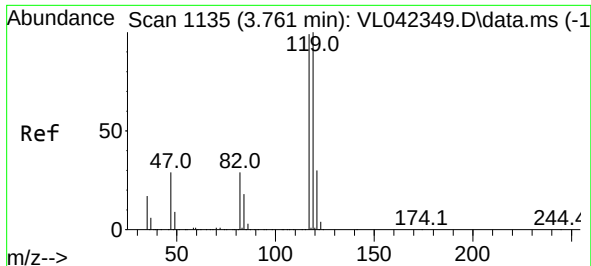
Tgt Ion:114 Resp: 359907
 Ion Ratio Lower Upper
 114 100
 63 26.7 21.8 32.6
 88 18.8 15.5 23.3



#34
 2-Butanone
 Concen: 1.045 ppbv
 RT: 2.564 min Scan# 765
 Delta R.T. 0.007 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

Tgt Ion: 43 Resp: 29735
 Ion Ratio Lower Upper
 43 100
 72 23.1 18.2 27.2

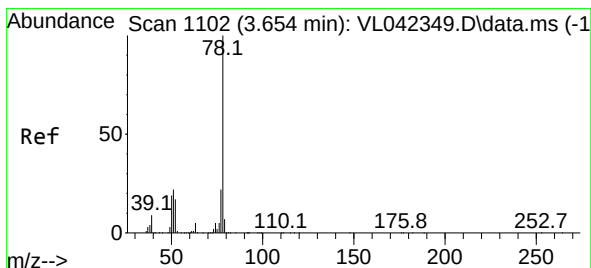
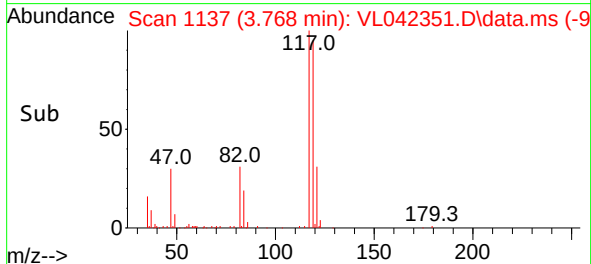
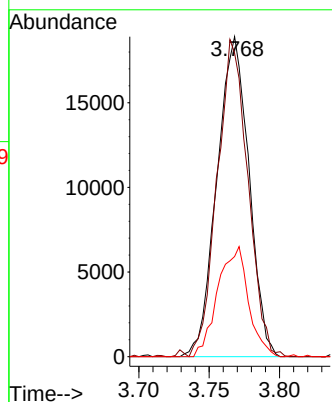
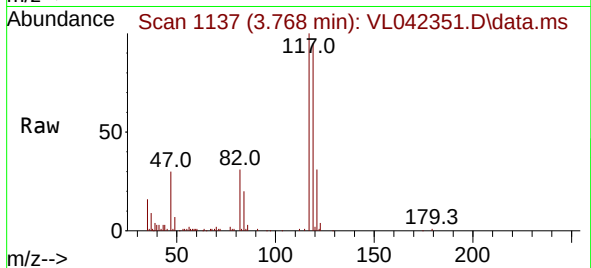




#35
Carbon Tetrachloride
Concen: 0.917 ppbv
RT: 3.768 min Scan# 1137
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

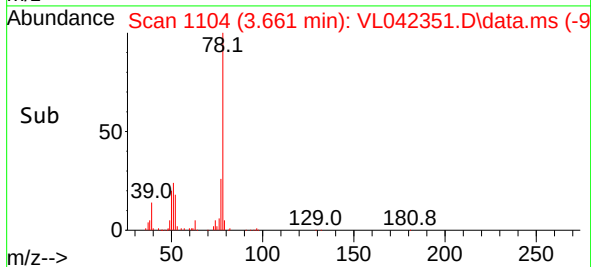
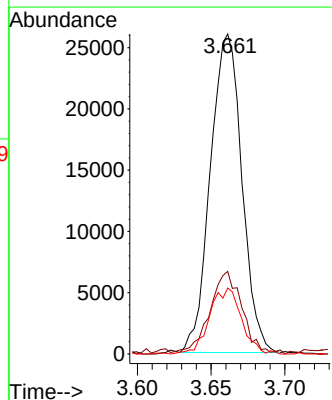
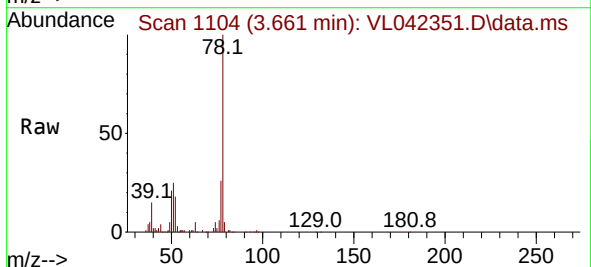
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

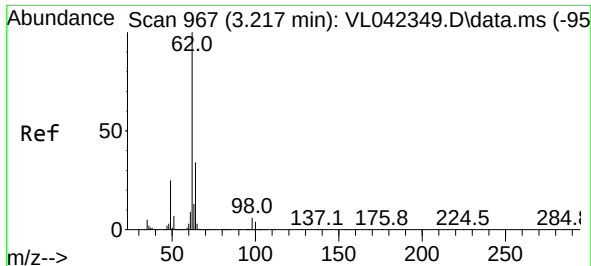
Tgt Ion:117 Resp: 29875
Ion Ratio Lower Upper
117 100
119 93.3 80.5 120.7
121 31.3 24.2 36.2



#36
Benzene
Concen: 0.997 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 78 Resp: 38707
Ion Ratio Lower Upper
78 100
77 24.7 17.4 26.0
50 20.7 15.5 23.3





#37

1,2-Dichloroethane

Concen: 0.999 ppbv

RT: 3.224 min Scan# 9

Delta R.T. 0.007 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA_1

ClientSampleId :

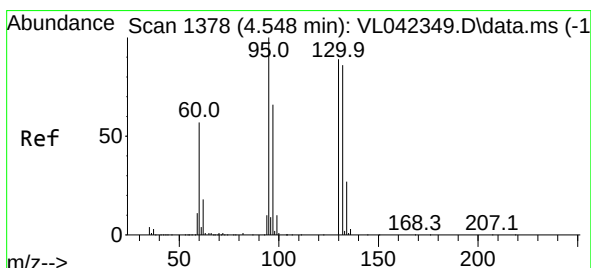
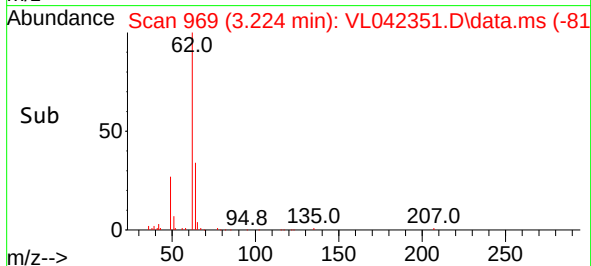
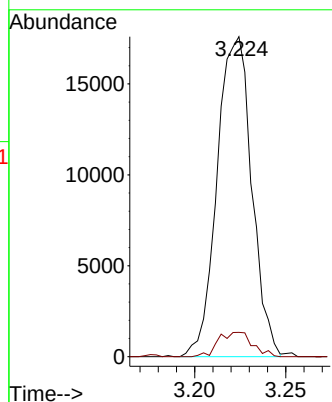
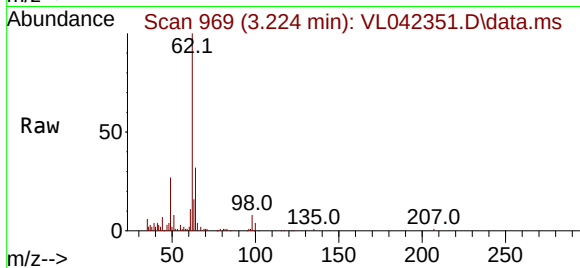
VSTDIC001

Tgt Ion: 62 Resp: 23284

Ion Ratio Lower Upper

62 100

98 7.5 5.1 7.7



#38

Trichloroethene

Concen: 0.947 ppbv

RT: 4.551 min Scan# 1379

Delta R.T. 0.004 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Tgt Ion:130 Resp: 16119

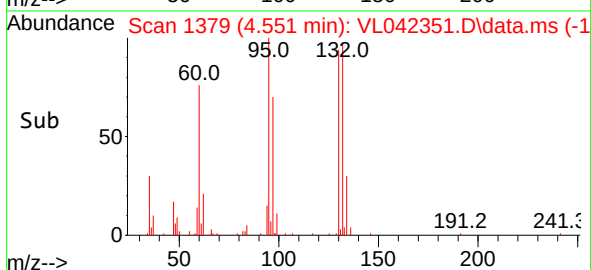
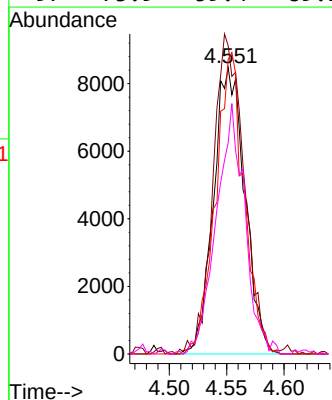
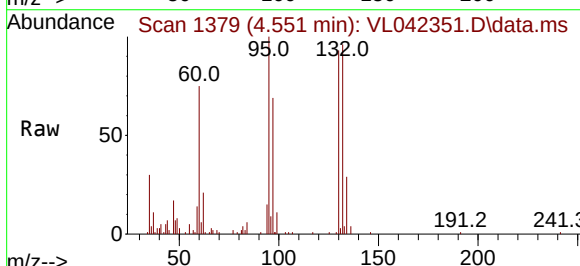
Ion Ratio Lower Upper

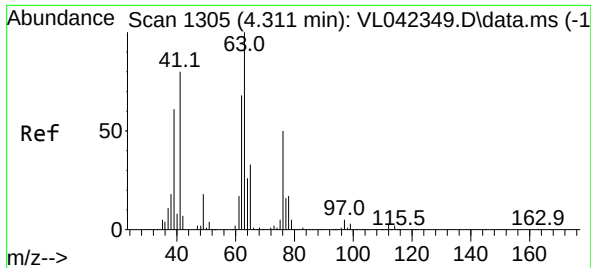
130 100

95 106.6 89.8 134.6

132 102.9 77.7 116.5

97 73.9 59.4 89.2





#39

1,2-Dichloropropane

Concen: 1.027 ppbv

RT: 4.318 min Scan# 1

Delta R.T. 0.007 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

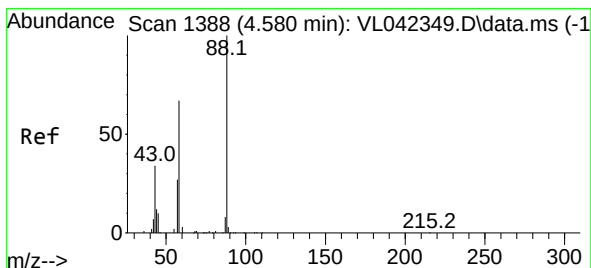
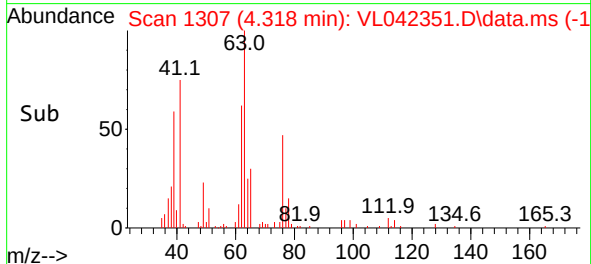
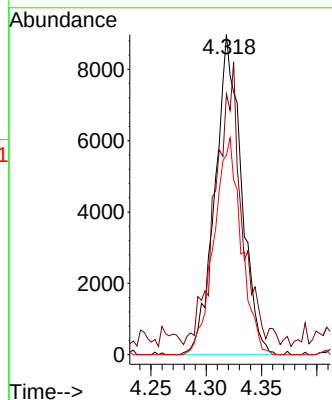
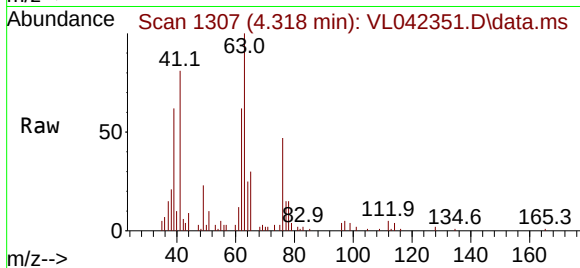
Tgt Ion: 63 Resp: 14866

Ion Ratio Lower Upper

63 100

41 78.3 64.2 96.2

62 62.3 54.3 81.5



#40

1,4-Dioxane

Concen: 0.123 ppbv

RT: 4.603 min Scan# 1395

Delta R.T. 0.023 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Tgt Ion: 88 Resp: 967

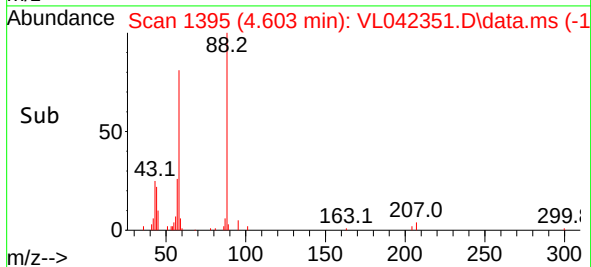
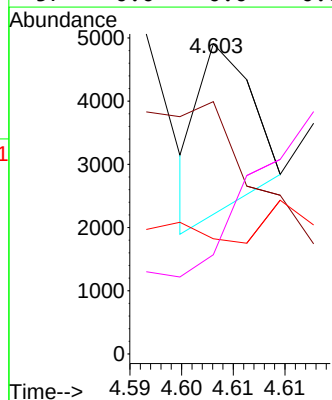
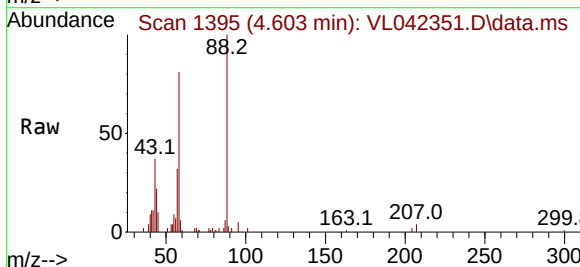
Ion Ratio Lower Upper

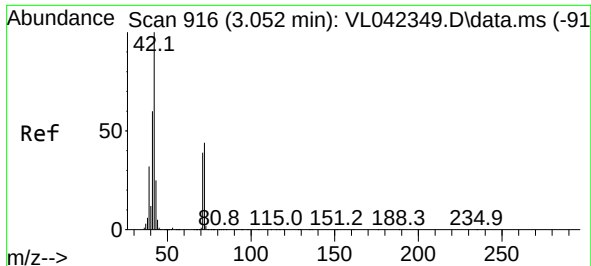
88 100

58 998.9 61.4 92.0#

43 0.0 23.2 34.8#

57 0.0 0.0 0.0





#41

Tetrahydrofuran

Concen: 1.049 ppbv

RT: 3.062 min Scan# 916

Delta R.T. 0.010 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

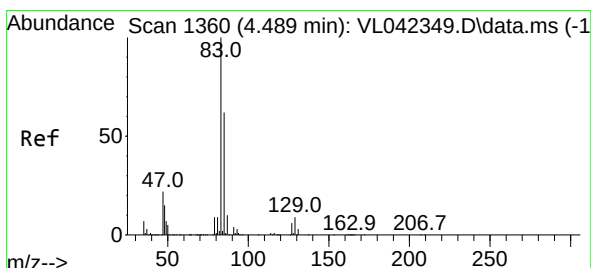
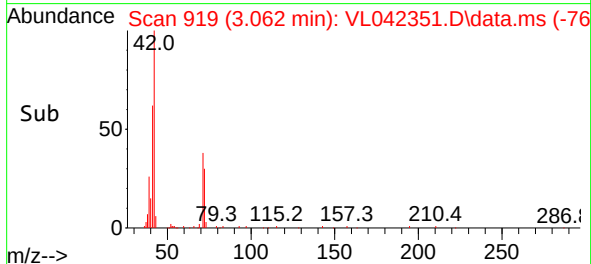
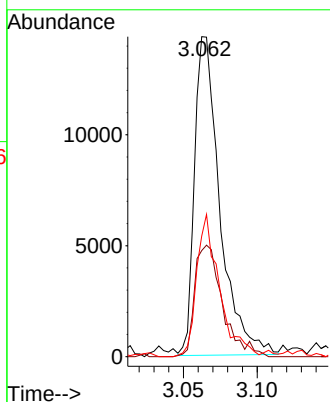
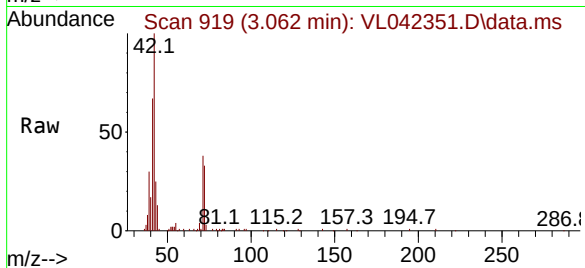
Tgt Ion: 42 Resp: 17259

Ion Ratio Lower Upper

42 100

72 38.1 32.3 48.5

71 42.3 31.4 47.2



#42

Bromodichloromethane

Concen: 1.009 ppbv

RT: 4.490 min Scan# 1360

Delta R.T. 0.000 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

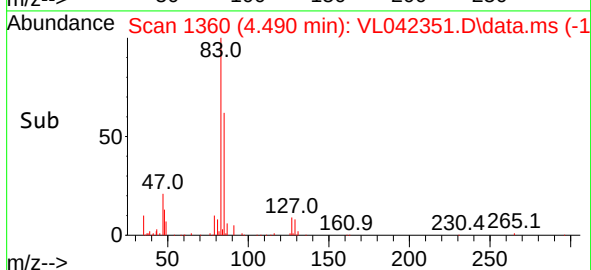
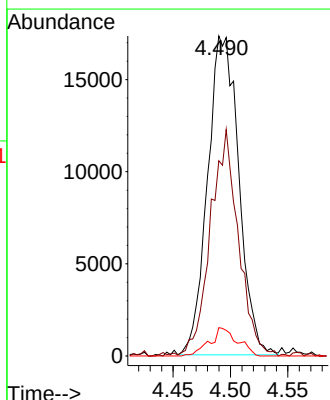
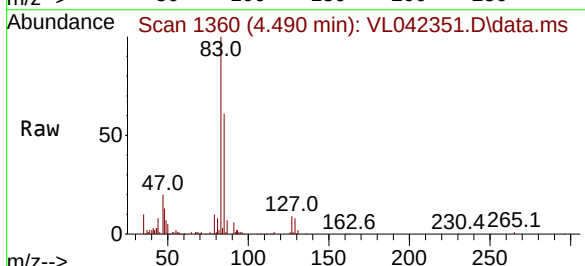
Tgt Ion: 83 Resp: 32721

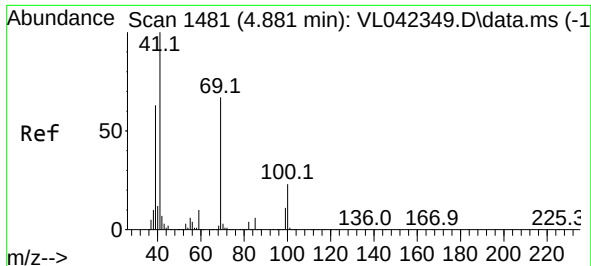
Ion Ratio Lower Upper

83 100

85 61.2 49.7 74.5

127 8.9 5.1 7.7

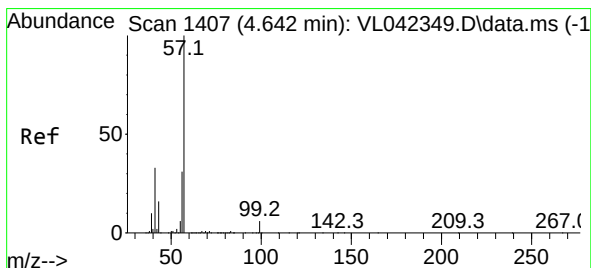
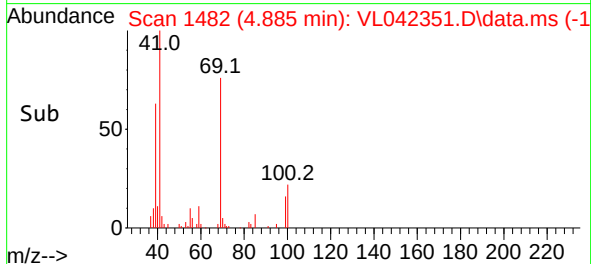
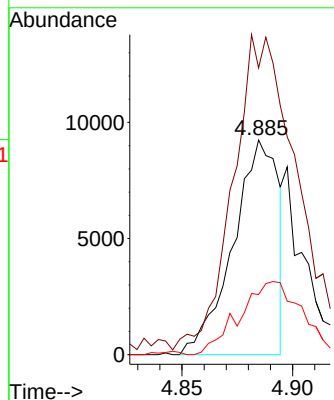
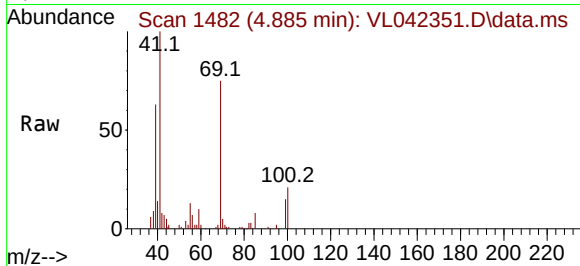




#43
Methyl Methacrylate
Concen: 0.751 ppbv
RT: 4.885 min Scan# 1481
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

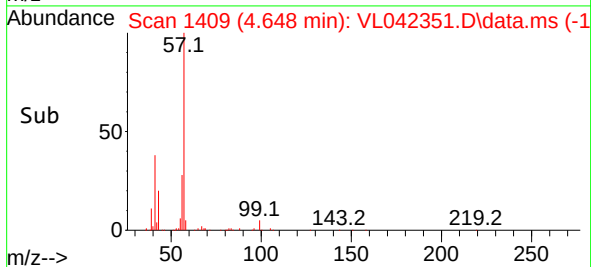
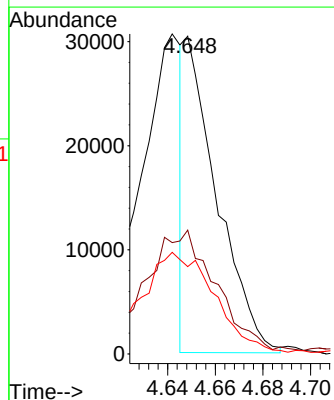
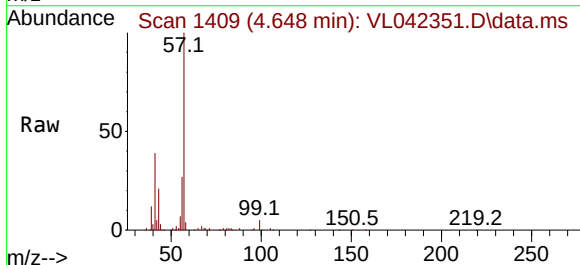
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

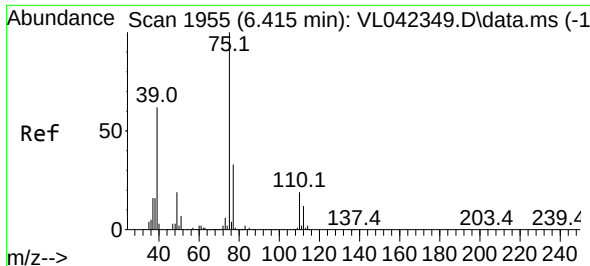
Tgt Ion: 69 Resp: 13084
Ion Ratio Lower Upper
69 100
41 213.4 118.6 177.8#
100 0.0 28.2 42.2#



#44
2,2,4-Trimethylpentane
Concen: 0.427 ppbv
RT: 4.648 min Scan# 1409
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 57 Resp: 28653
Ion Ratio Lower Upper
57 100
41 91.3 27.2 40.8#
56 0.0 25.7 38.5#





#45

t-1,3-Dichloropropene

Concen: 0.658 ppbv

RT: 6.416 min Scan# 1955

Delta R.T. 0.000 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA_1

ClientSampleId :

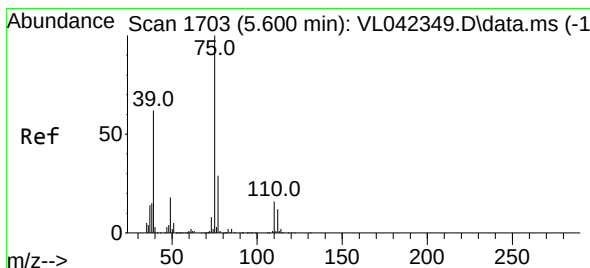
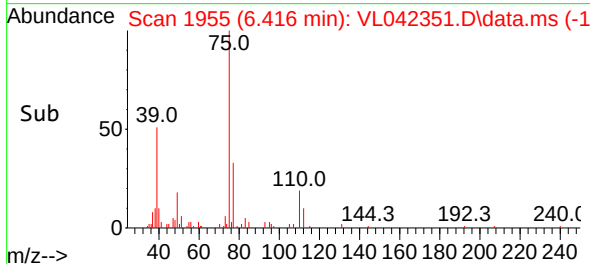
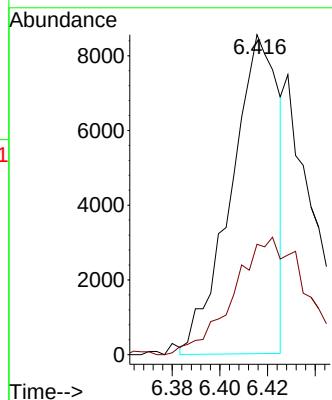
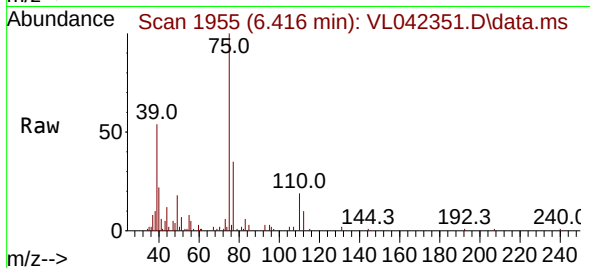
VSTDIC001

Tgt Ion: 75 Resp: 11763

Ion Ratio Lower Upper

75 100

77 34.5 27.0 40.6



#46

cis-1,3-Dichloropropene

Concen: 0.596 ppbv

RT: 5.603 min Scan# 1704

Delta R.T. 0.004 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

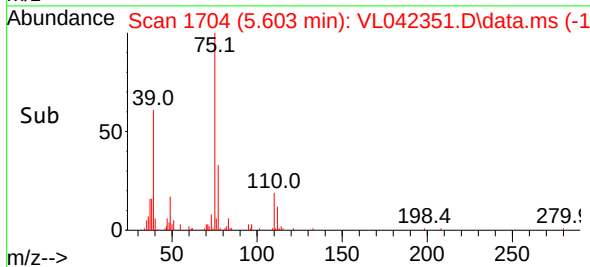
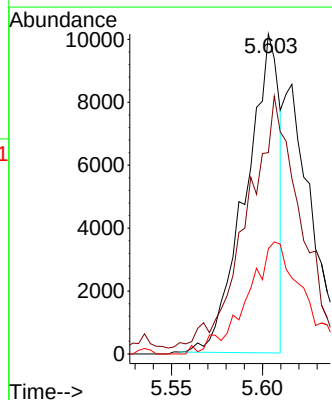
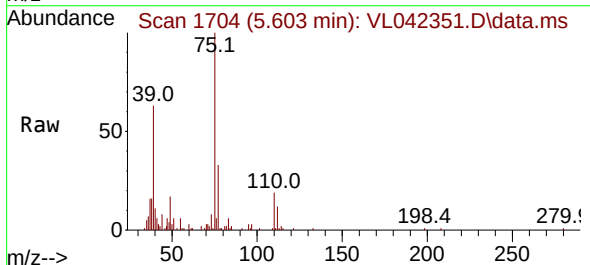
Tgt Ion: 75 Resp: 13028

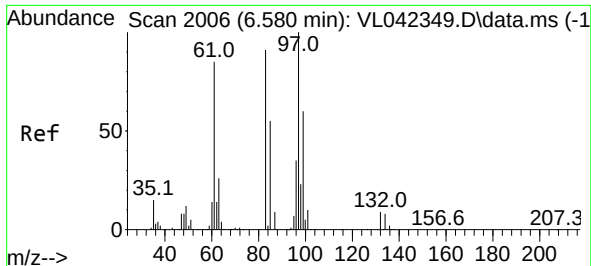
Ion Ratio Lower Upper

75 100

39 59.7 50.0 75.0

77 33.1 23.0 34.6



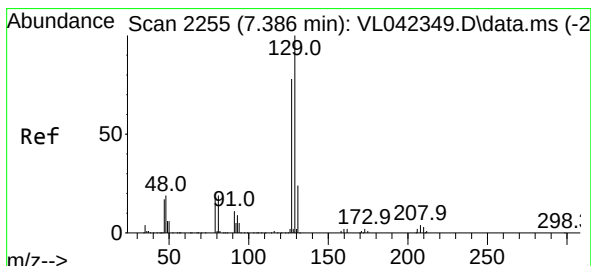
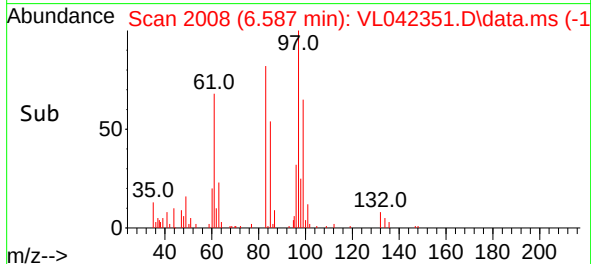
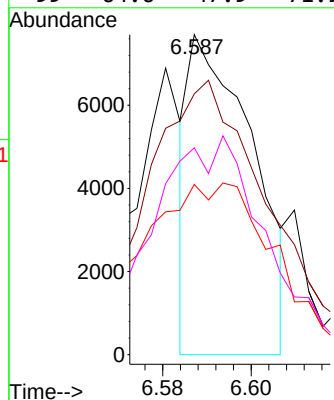
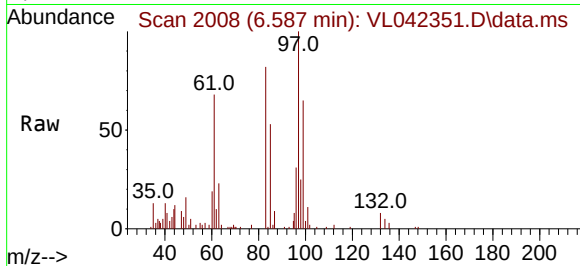


#47
1,1,2-Trichloroethane
Concen: 0.521 ppbv
RT: 6.587 min Scan# 2006
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 97 Resp: 7690

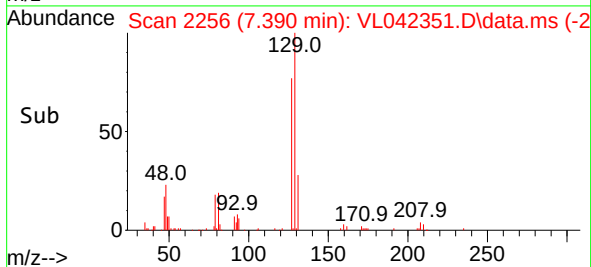
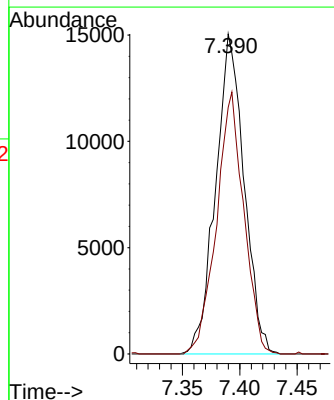
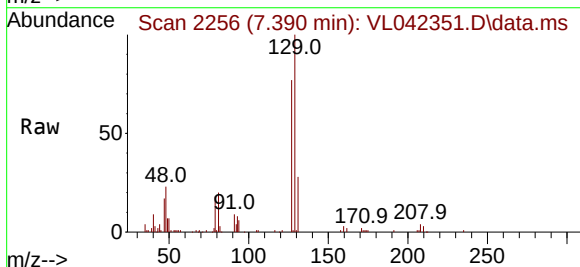
Ion	Ratio	Lower	Upper
97	100		
83	67.7	72.8	109.2#
85	31.3	44.2	66.4#
99	64.6	47.9	71.9

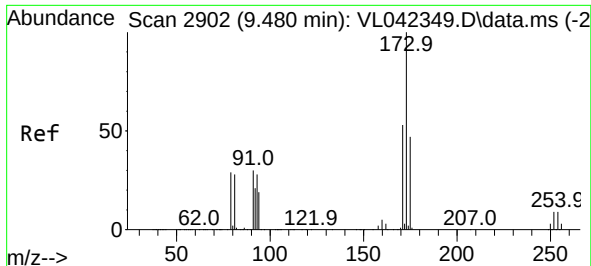


#48
Dibromochloromethane
Concen: 0.997 ppbv
RT: 7.390 min Scan# 2256
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 129 Resp: 25948

Ion	Ratio	Lower	Upper
129	100		
127	78.4	39.1	117.3

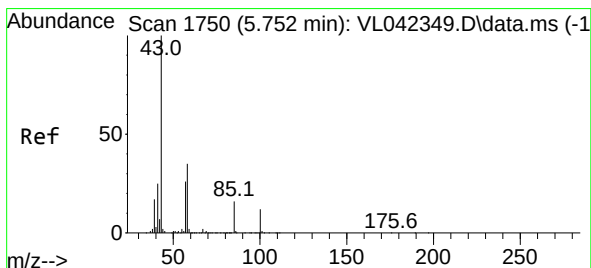
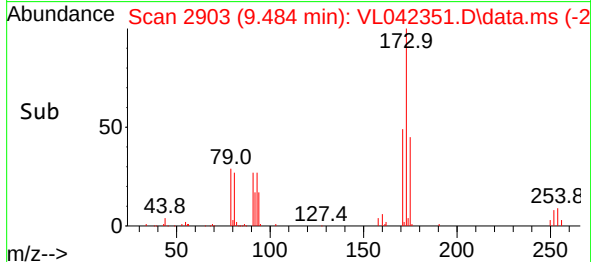
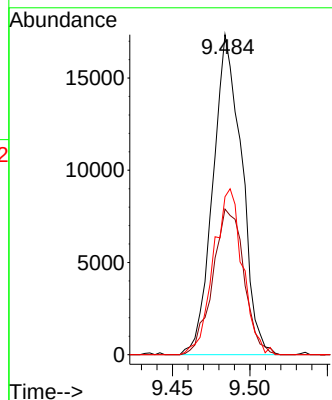
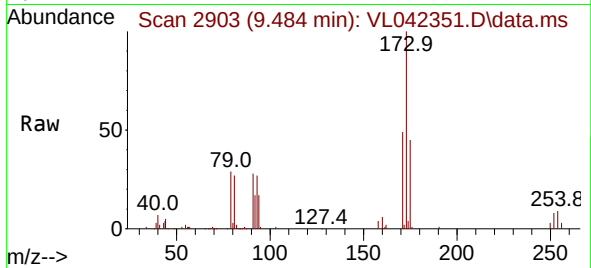




#49
Bromoform
Concen: 0.984 ppbv
RT: 9.484 min Scan# 2902
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

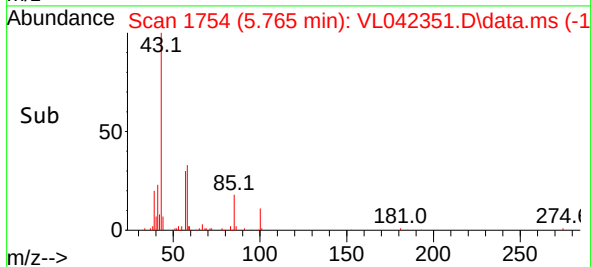
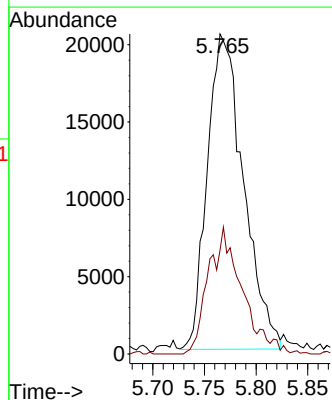
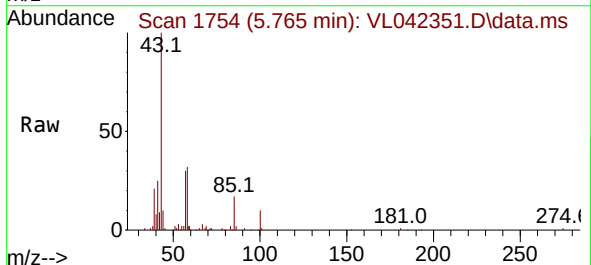
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

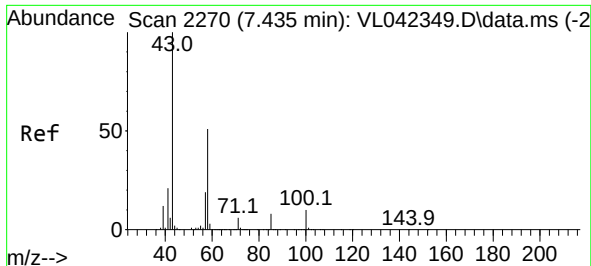
Tgt Ion:173 Resp: 22413
Ion Ratio Lower Upper
173 100
175 49.3 38.2 57.2
171 52.7 40.9 61.3



#50
4-Methyl-2-Pentanone
Concen: 1.049 ppbv
RT: 5.765 min Scan# 1754
Delta R.T. 0.013 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 43 Resp: 49725
Ion Ratio Lower Upper
43 100
58 37.7 28.6 43.0

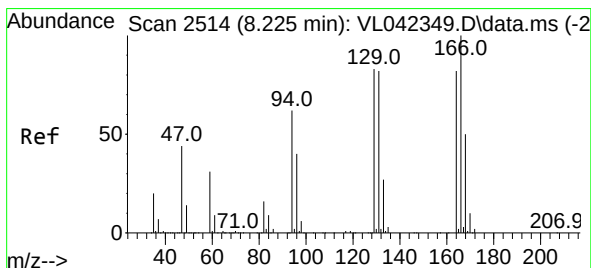
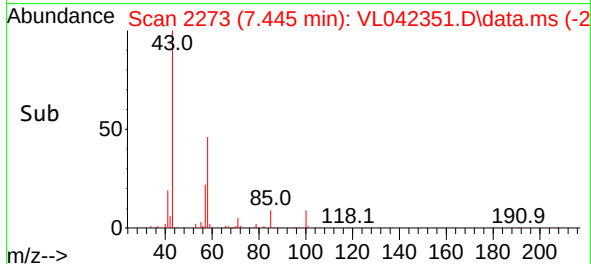
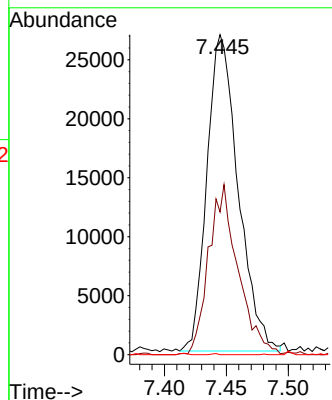
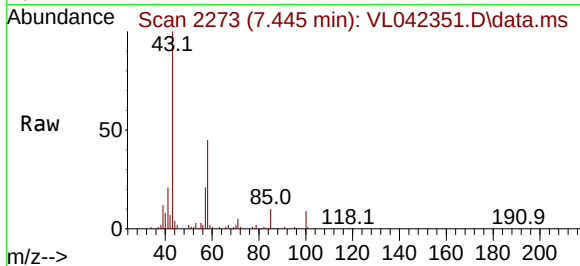




#51
2-Hexanone
Concen: 1.103 ppbv
RT: 7.445 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

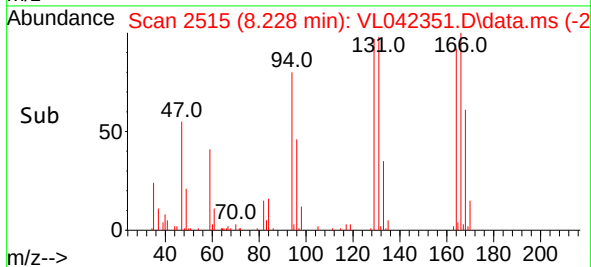
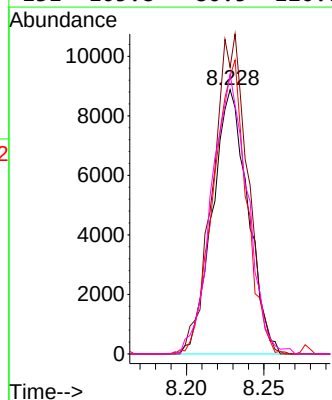
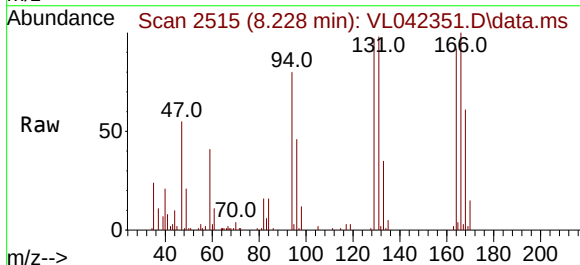
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

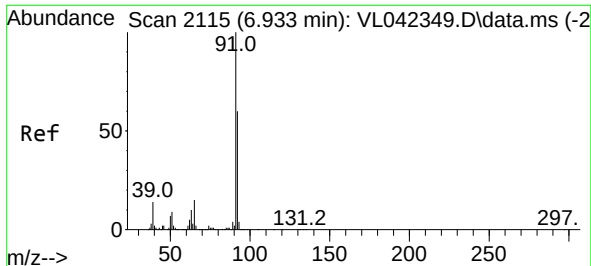
Tgt Ion: 43 Resp: 47178
Ion Ratio Lower Upper
43 100
58 50.8 40.2 60.4
98 0.1 0.1 0.1



#52
Tetrachloroethene
Concen: 0.943 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 164 Resp: 14154
Ion Ratio Lower Upper
164 100
166 107.7 98.2 147.2
129 104.2 81.8 122.8
131 105.8 80.5 120.7

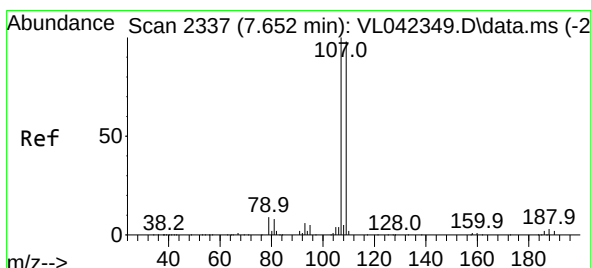
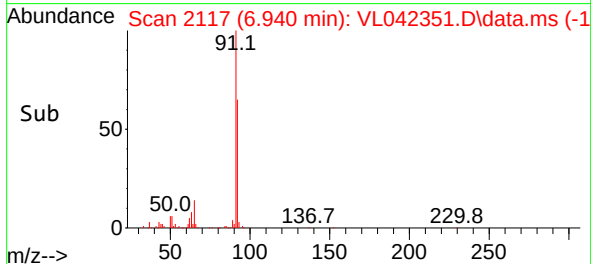
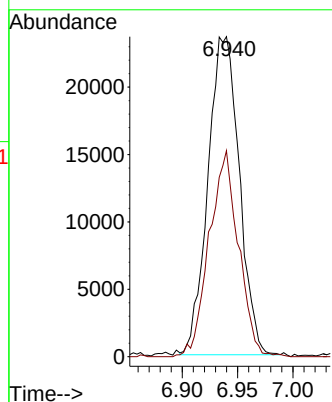
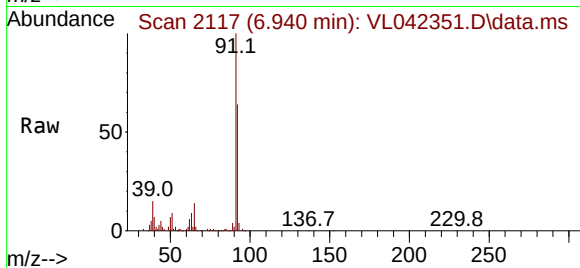




#53
Toluene
Concen: 1.001 ppbv
RT: 6.940 min Scan# 2115
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

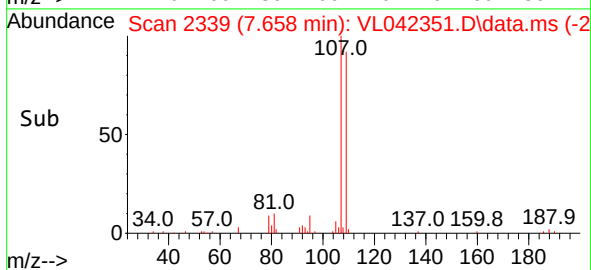
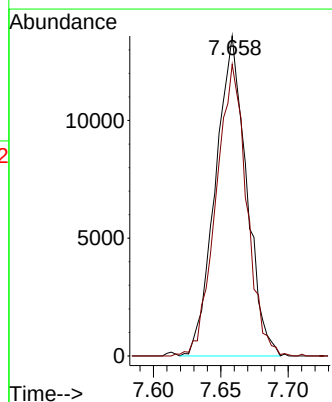
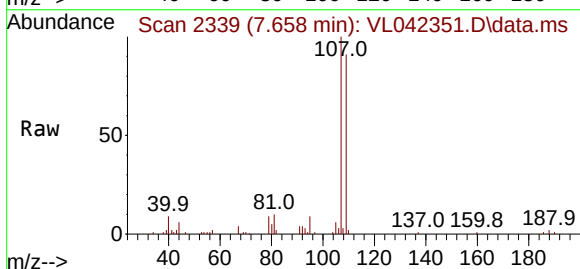
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

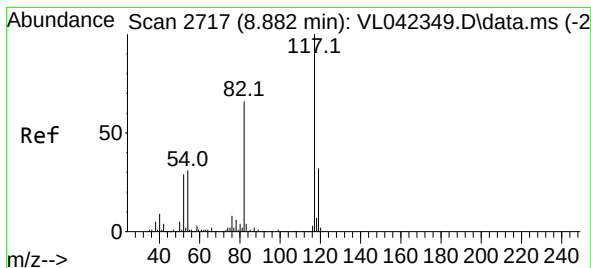
Tgt Ion: 91 Resp: 46611
Ion Ratio Lower Upper
91 100
92 60.4 48.2 72.4



#54
1,2-Dibromoethane
Concen: 1.036 ppbv
RT: 7.658 min Scan# 2339
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 107 Resp: 21780
Ion Ratio Lower Upper
107 100
109 90.7 78.2 117.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.885 min Scan# 2717

Delta R.T. 0.004 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC001

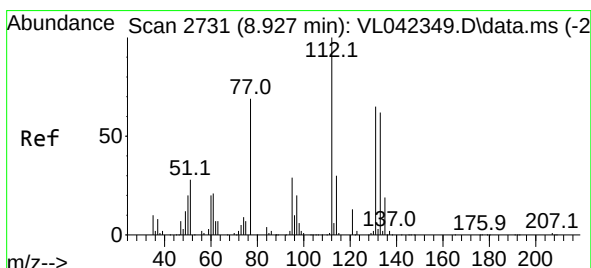
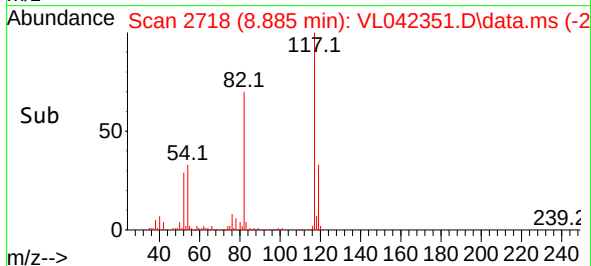
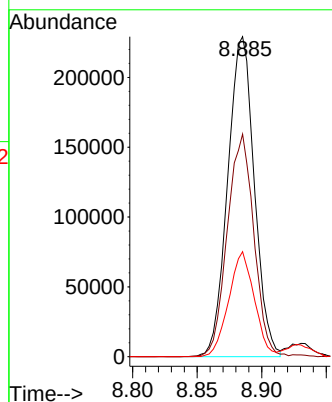
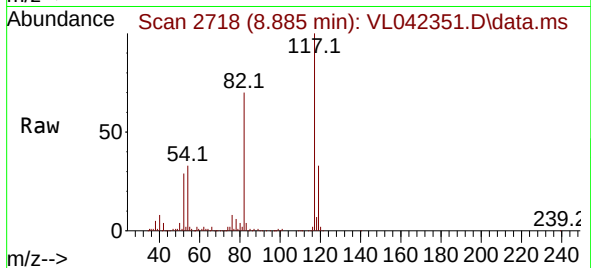
Tgt Ion:117 Resp: 329090

Ion Ratio Lower Upper

117 100

82 69.7 57.8 86.6

119 31.8 25.2 37.8



#56

1,1,1,2-Tetrachloroethane

Concen: 1.057 ppbv

RT: 8.927 min Scan# 2731

Delta R.T. 0.000 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

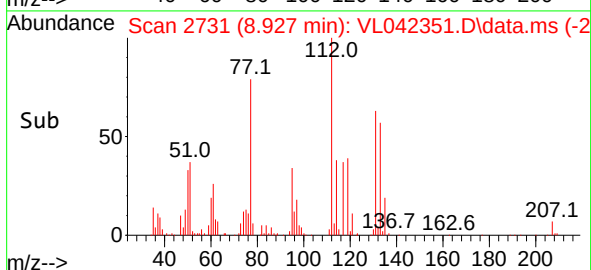
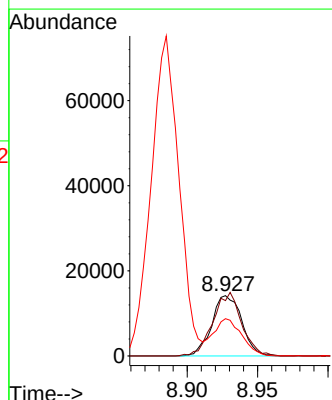
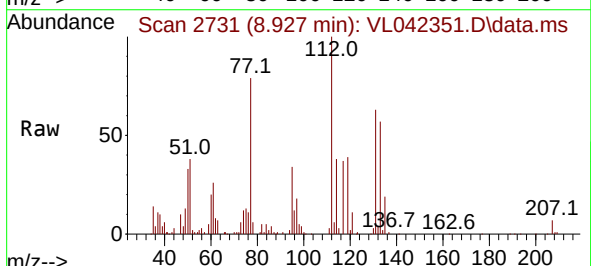
Tgt Ion:131 Resp: 21052

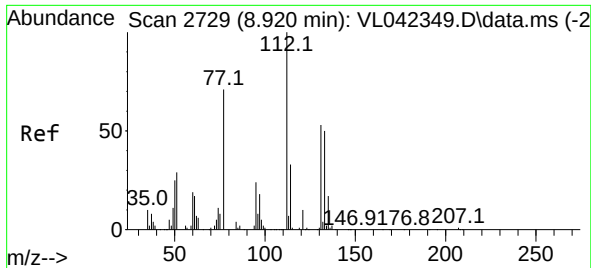
Ion Ratio Lower Upper

131 100

133 100.5 78.3 117.5

119 55.1 48.7 73.1

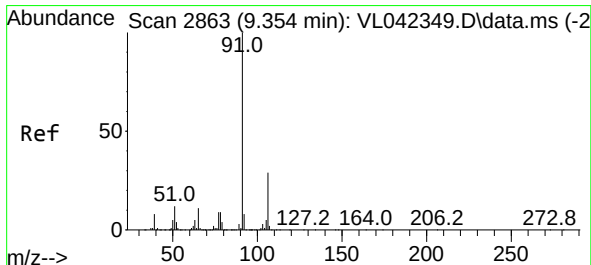
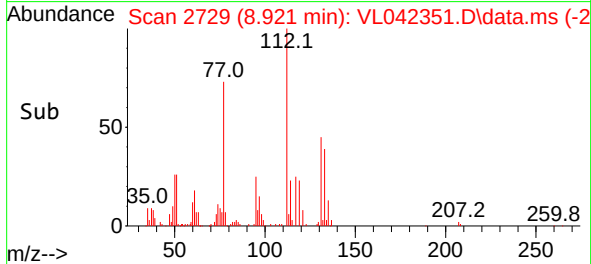
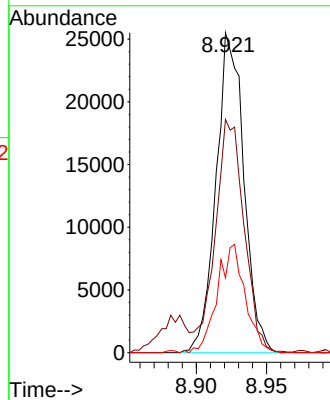
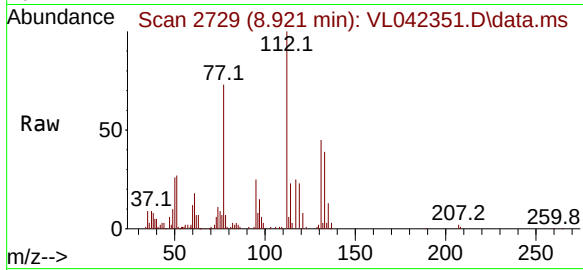




#57
Chlorobenzene
Concen: 1.026 ppbv
RT: 8.921 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

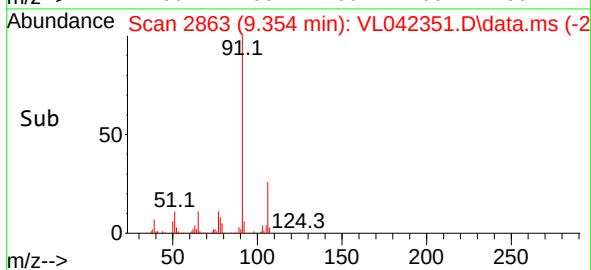
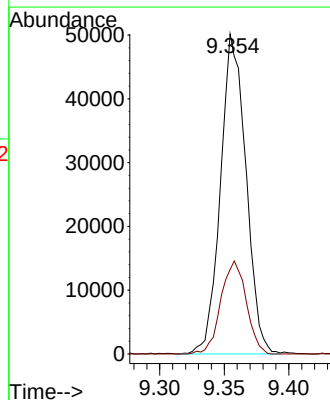
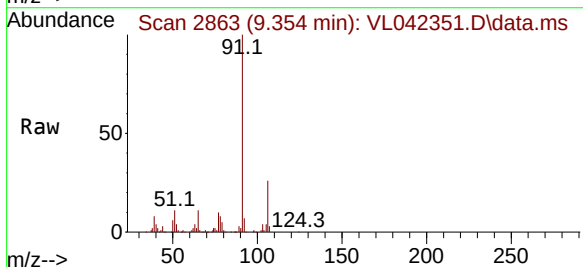
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

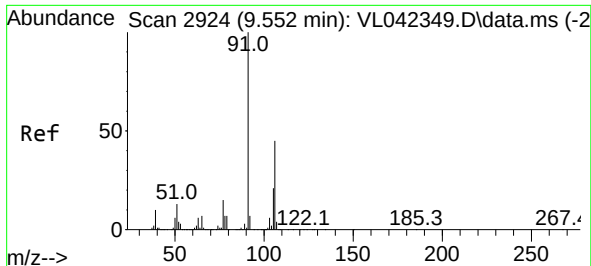
Tgt Ion:112 Resp: 35113
Ion Ratio Lower Upper
112 100
77 72.4 57.8 86.6
114 23.3 29.3 35.9#



#58
Ethyl Benzene
Concen: 1.054 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 91 Resp: 68703
Ion Ratio Lower Upper
91 100
106 26.5 23.0 34.4





#59

m/p-Xylene

Concen: 0.926 ppbv

RT: 9.552 min Scan# 2924

Delta R.T. 0.000 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA_L

ClientSampleId :

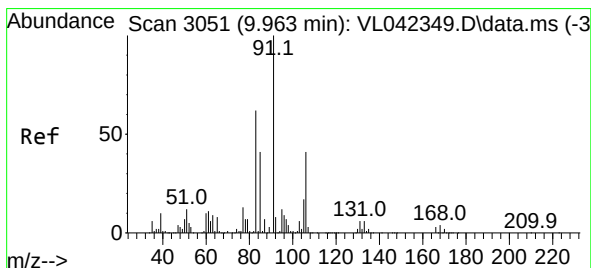
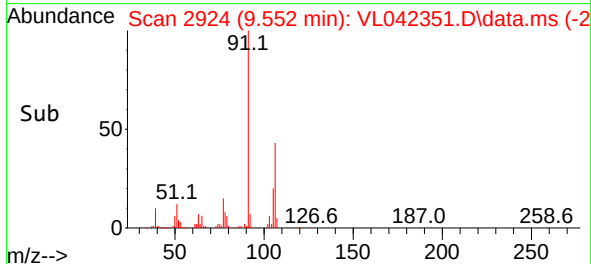
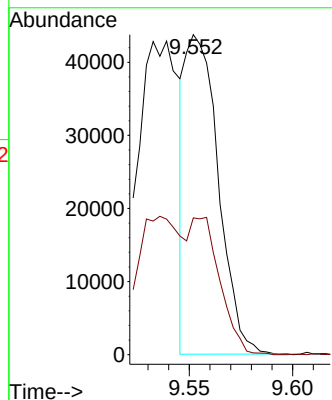
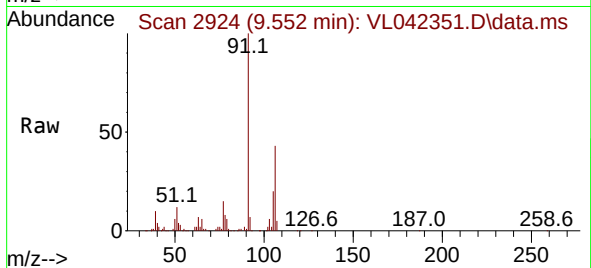
VSTDIC001

Tgt Ion: 91 Resp: 48794

Ion Ratio Lower Upper

91 100

106 0.0 35.4 53.2#



#60

o-Xylene

Concen: 1.056 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. 0.004 min

Lab File: VL042351.D

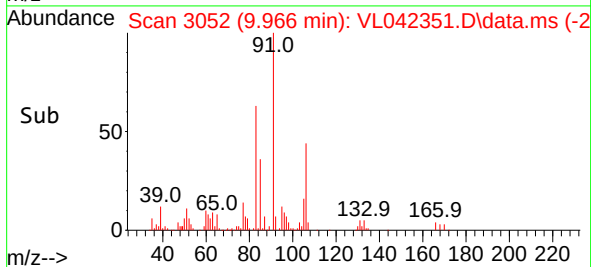
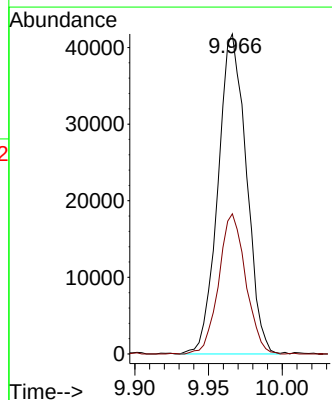
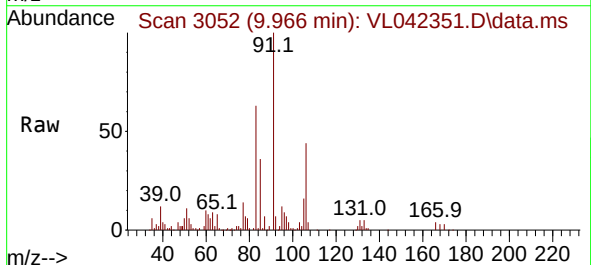
Acq: 17 Apr 2025 10:48

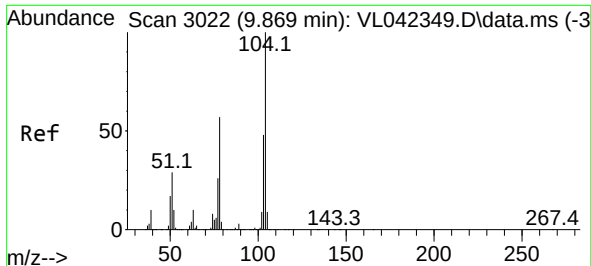
Tgt Ion: 91 Resp: 55831

Ion Ratio Lower Upper

91 100

106 41.6 21.1 63.4

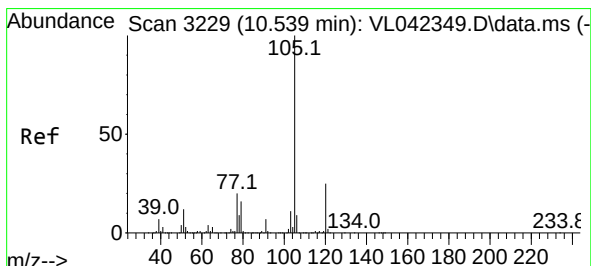
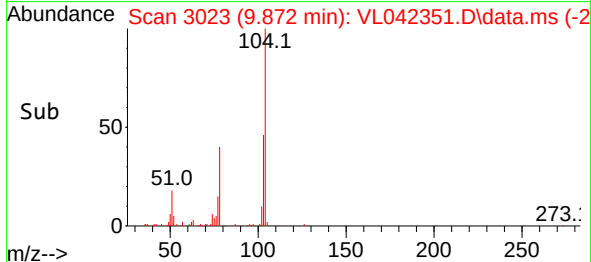
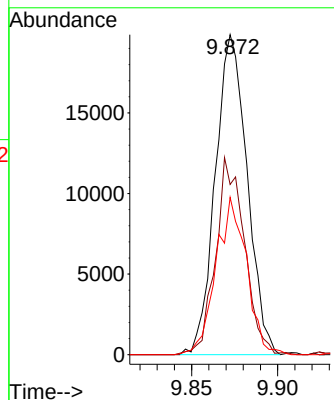
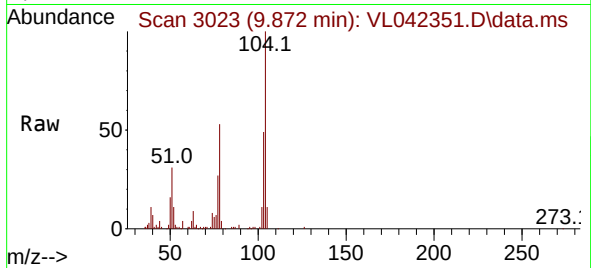




#61
Styrene
Concen: 1.012 ppbv
RT: 9.872 min Scan# 3022
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

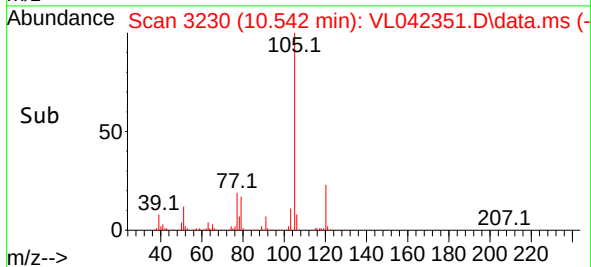
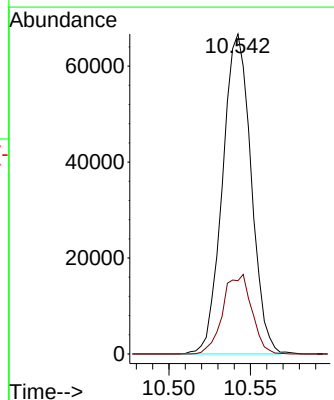
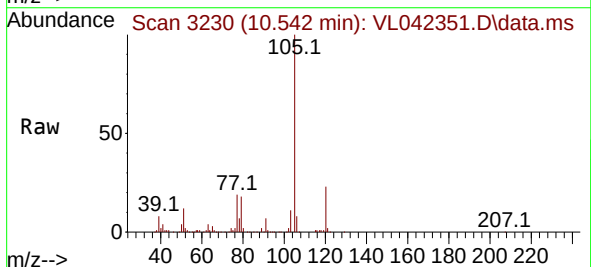
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

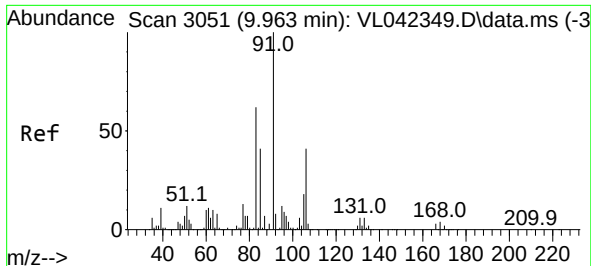
Tgt Ion:104 Resp: 25544
Ion Ratio Lower Upper
104 100
78 55.7 44.6 66.8
103 47.2 37.4 56.0



#62
Isopropylbenzene
Concen: 1.047 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:105 Resp: 81286
Ion Ratio Lower Upper
105 100
120 25.0 19.8 29.8





#63

1,1,2,2-Tetrachloroethane

Concen: 0.943 ppbv

RT: 9.966 min Scan# 3051

Delta R.T. 0.004 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

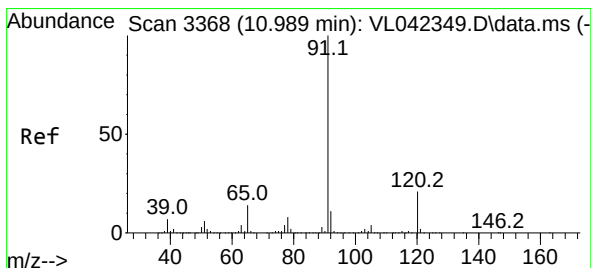
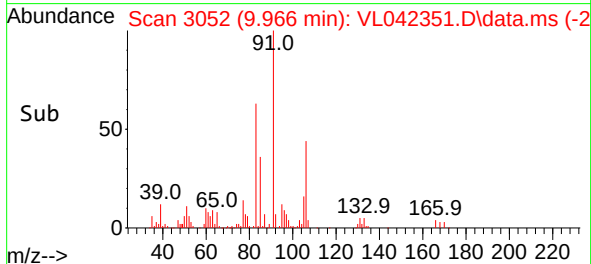
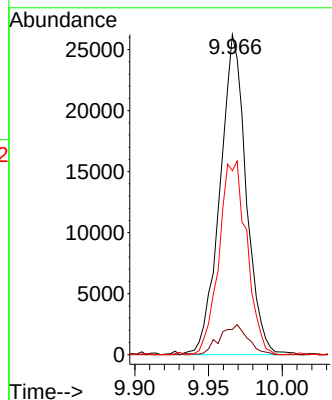
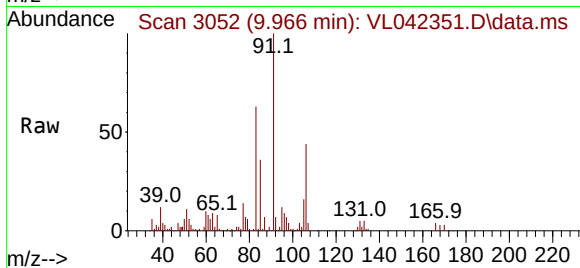
Tgt Ion: 83 Resp: 32410

Ion Ratio Lower Upper

83 100

131 10.2 4.5 13.7

85 64.4 32.4 97.0



#64

n-propylbenzene

Concen: 1.019 ppbv

RT: 10.989 min Scan# 3368

Delta R.T. 0.000 min

Lab File: VL042351.D

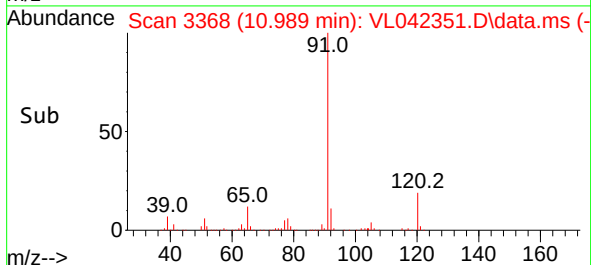
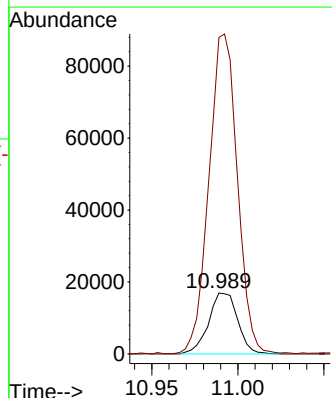
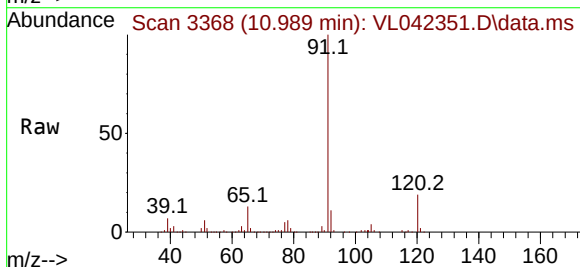
Acq: 17 Apr 2025 10:48

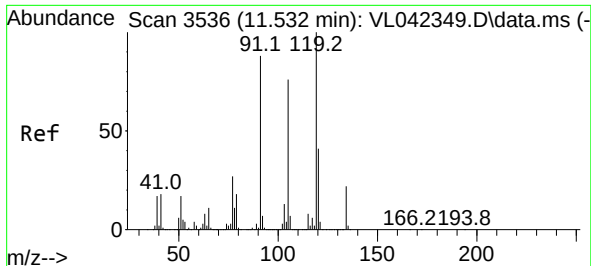
Tgt Ion:120 Resp: 19898

Ion Ratio Lower Upper

120 100

91 517.6 392.4 588.6

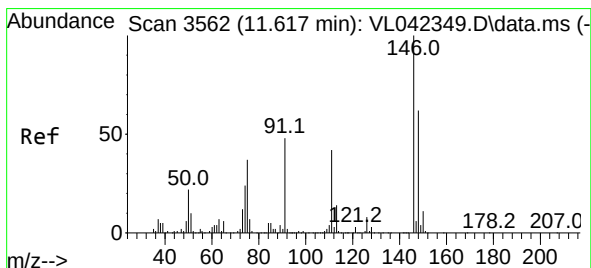
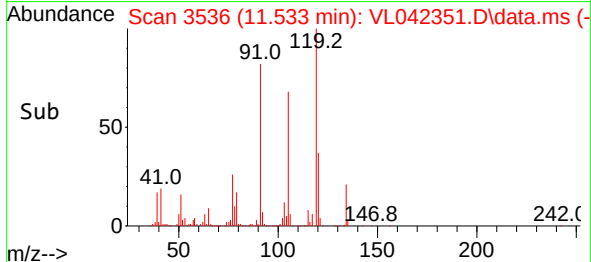
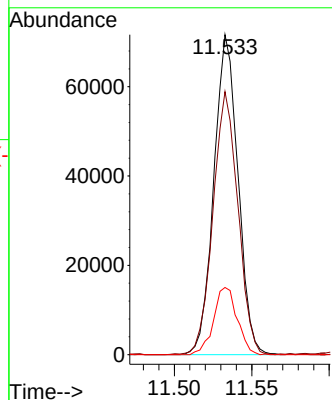
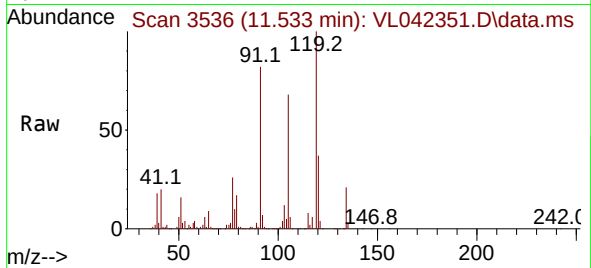




#65
tert-Butylbenzene
Concen: 1.087 ppbv
RT: 11.533 min Scan# 3536
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

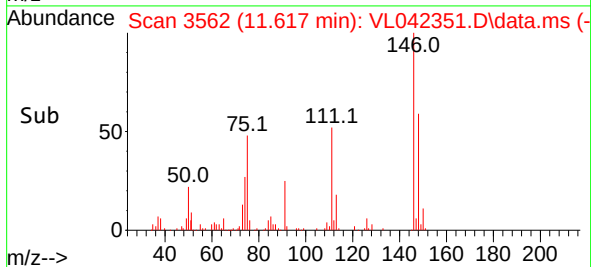
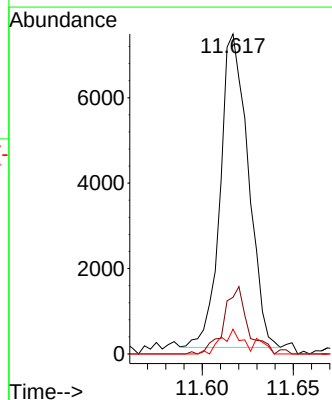
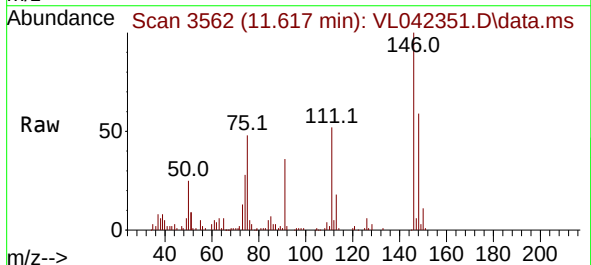
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

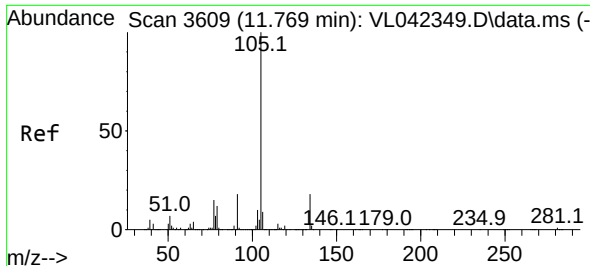
Tgt Ion:119 Resp: 77598
Ion Ratio Lower Upper
119 100
91 85.0 74.6 111.8
134 20.5 18.8 28.2



#66
Benzyl Chloride
Concen: 1.003 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 91 Resp: 7864
Ion Ratio Lower Upper
91 100
126 18.6 11.8 17.6#
128 7.7 4.5 6.7#

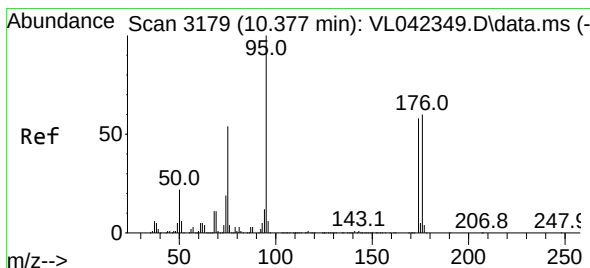
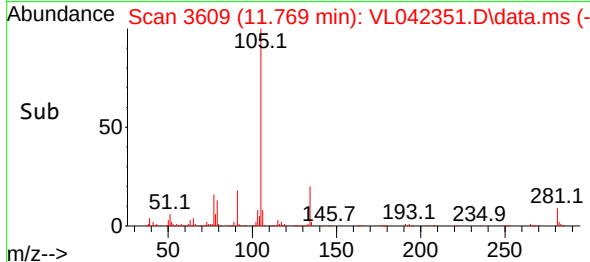
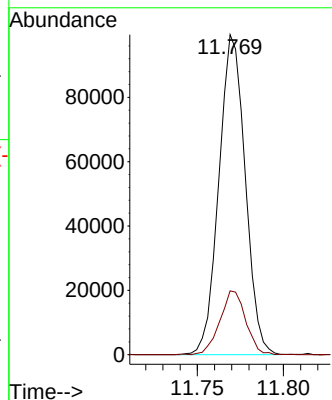
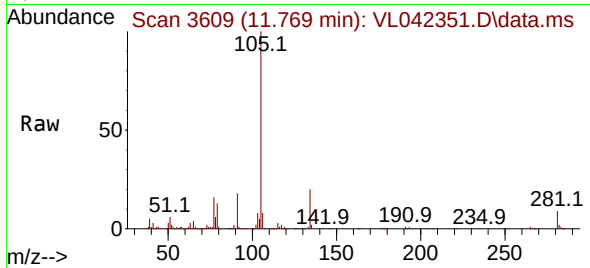




#67
 sec-Butylbenzene
 Concen: 1.067 ppbv
 RT: 11.769 min Scan# 3609
 Delta R.T. 0.000 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

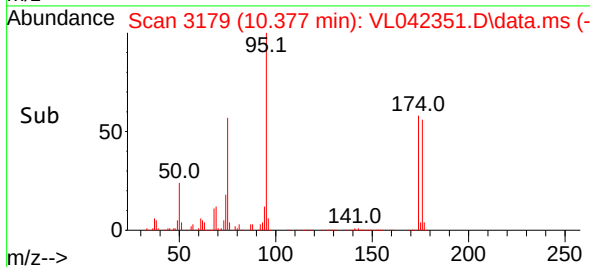
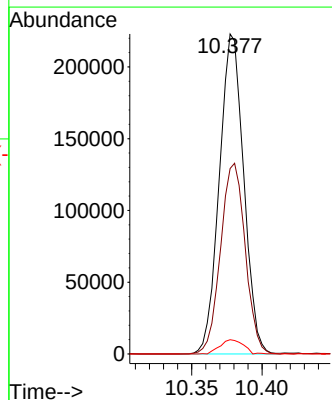
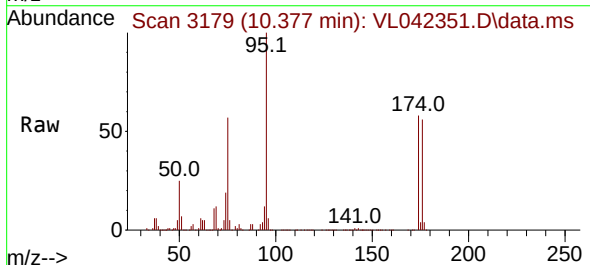
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

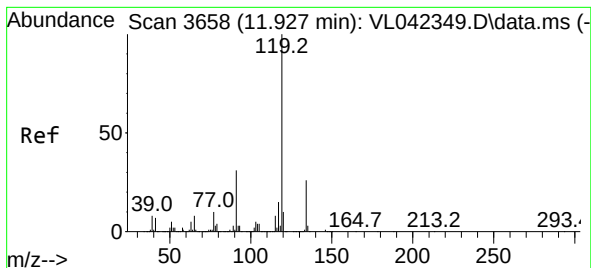
Tgt Ion:105 Resp: 105919
 Ion Ratio Lower Upper
 105 100
 134 19.6 14.6 21.8



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.950 ppbv
 RT: 10.377 min Scan# 3179
 Delta R.T. 0.000 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

Tgt Ion: 95 Resp: 269087
 Ion Ratio Lower Upper
 95 100
 174 60.4 48.5 72.7
 175 4.3 3.7 5.5





#69

p-Isopropyltoluene

Concen: 1.075 ppbv

RT: 11.928 min Scan# 3658

Delta R.T. 0.000 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC001

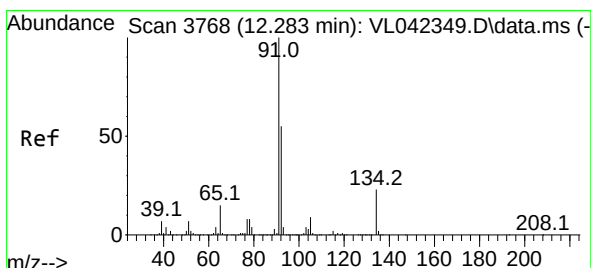
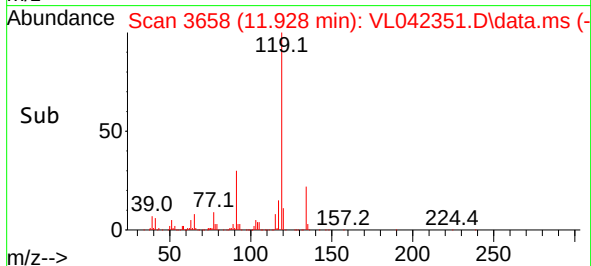
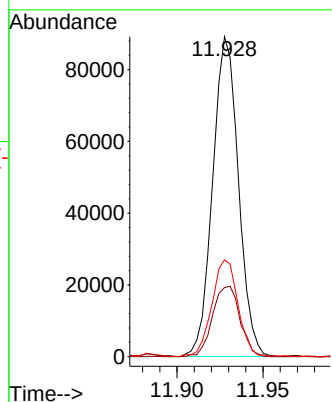
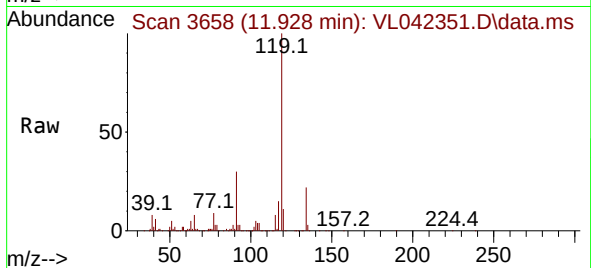
Tgt Ion:119 Resp: 92733

Ion Ratio Lower Upper

119 100

134 23.5 20.0 30.0

91 32.1 24.4 36.6



#70

n-Butylbenzene

Concen: 1.072 ppbv

RT: 12.284 min Scan# 3768

Delta R.T. 0.000 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

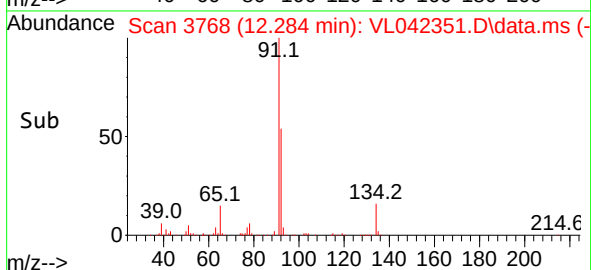
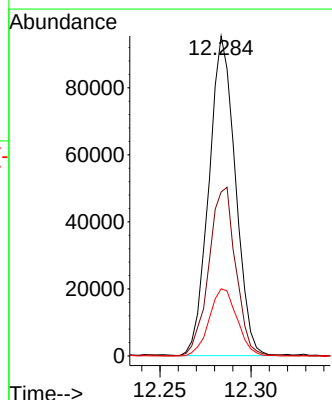
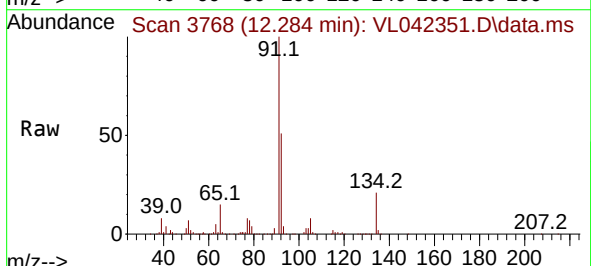
Tgt Ion: 91 Resp: 96306

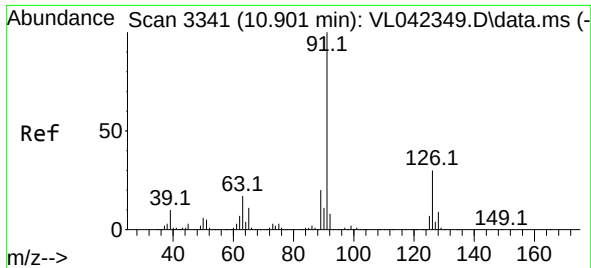
Ion Ratio Lower Upper

91 100

92 54.2 44.2 66.4

134 22.1 18.2 27.4

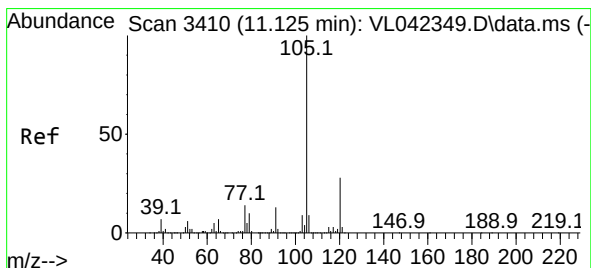
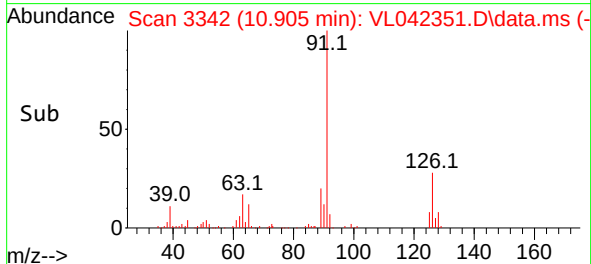
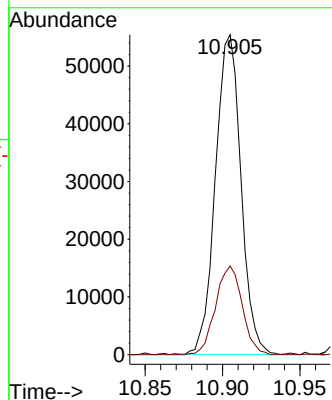
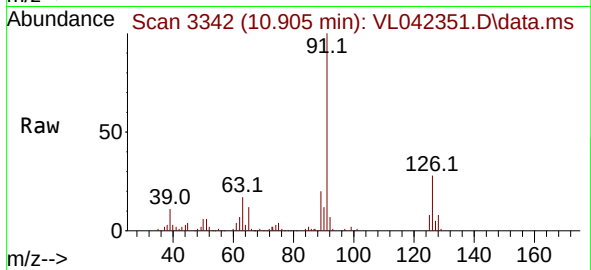




#71
2-Chlorotoluene
Concen: 1.040 ppbv
RT: 10.905 min Scan# 31
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

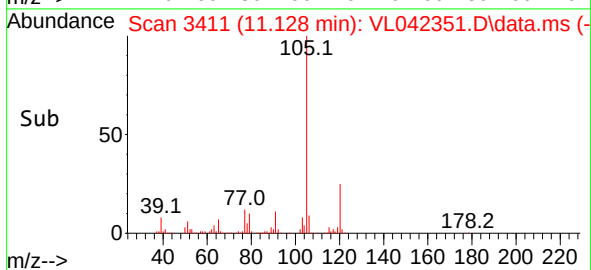
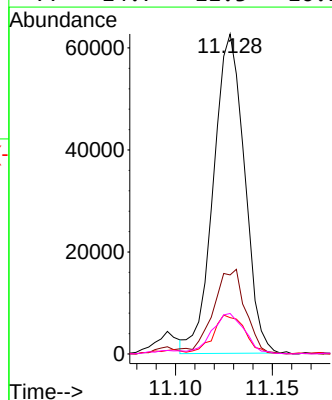
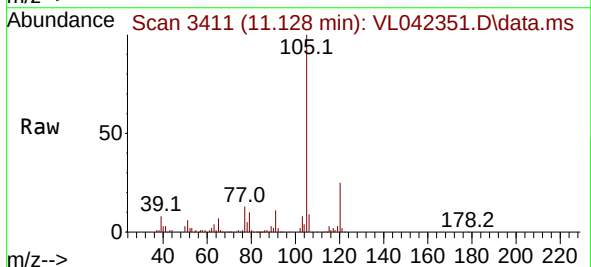
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

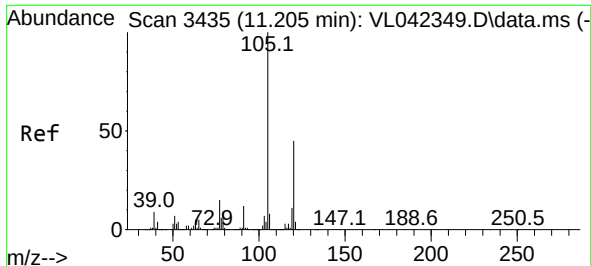
Tgt Ion: 91 Resp: 63321
Ion Ratio Lower Upper
91 100
126 28.9 11.4 45.4



#72
4-Ethyltoluene
Concen: 1.078 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:105 Resp: 69698
Ion Ratio Lower Upper
105 100
120 29.2 23.2 34.8
91 13.5 10.4 15.6
77 14.7 11.3 16.9

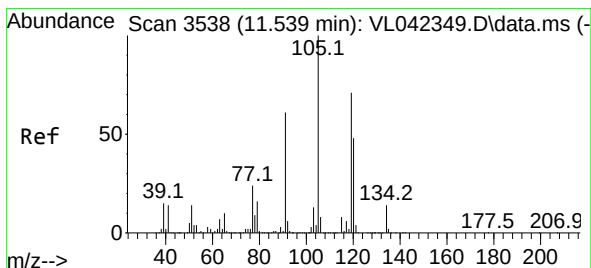
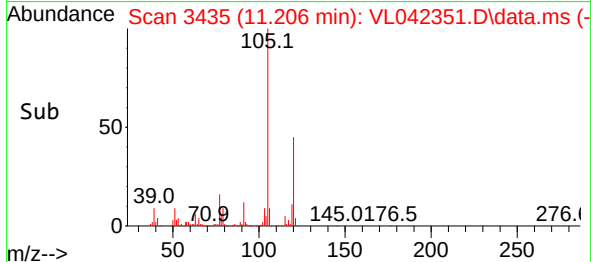
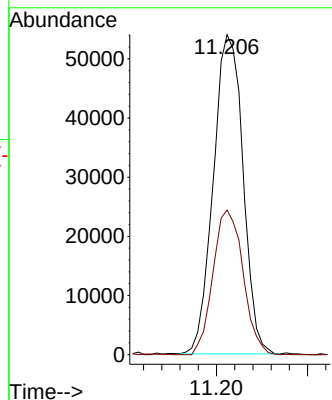
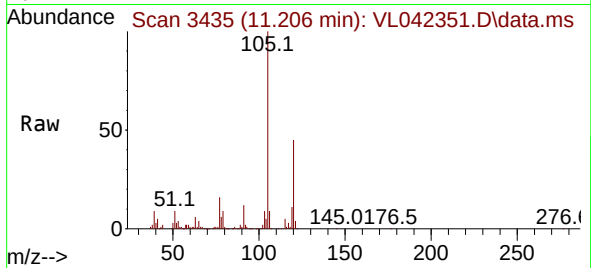




#73
 1,3,5-Trimethylbenzene
 Concen: 1.067 ppbv
 RT: 11.206 min Scan# 3435
 Delta R.T. 0.000 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

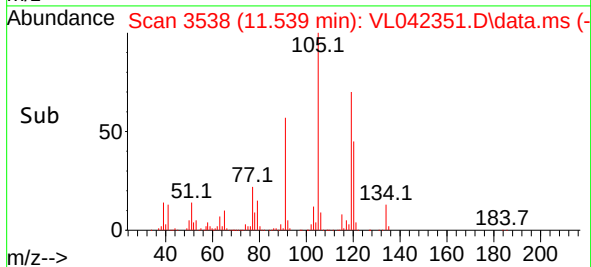
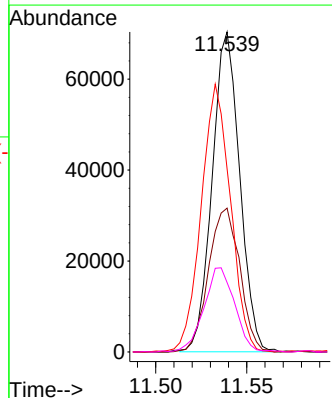
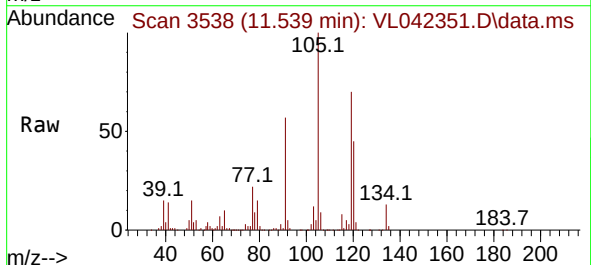
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

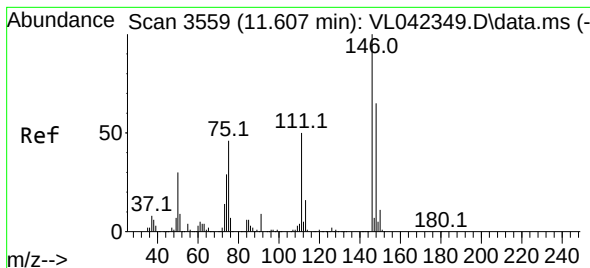
Tgt Ion:105 Resp: 60927
 Ion Ratio Lower Upper
 105 100
 120 45.3 35.6 53.4



#74
 1,2,4-Trimethylbenzene
 Concen: 1.108 ppbv
 RT: 11.539 min Scan# 3538
 Delta R.T. 0.000 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

Tgt Ion:105 Resp: 73888
 Ion Ratio Lower Upper
 105 100
 120 45.0 38.1 57.1
 91 57.0 48.8 73.2
 77 21.4 19.0 28.4





#75

1,3-Dichlorobenzene

Concen: 1.064 ppbv

RT: 11.610 min Scan# 3559

Delta R.T. 0.004 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC001

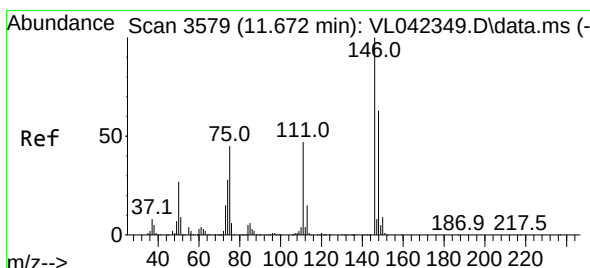
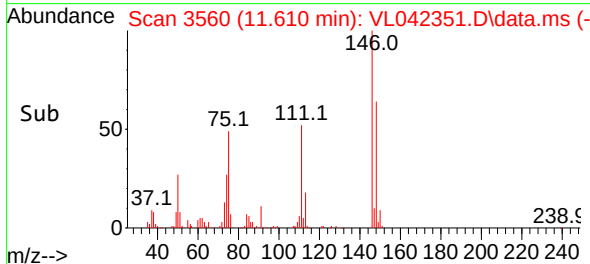
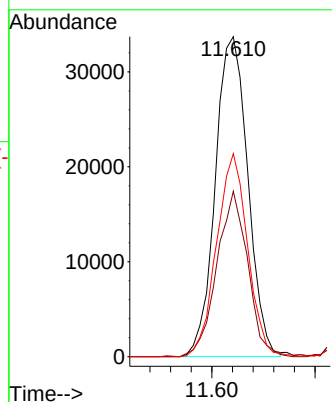
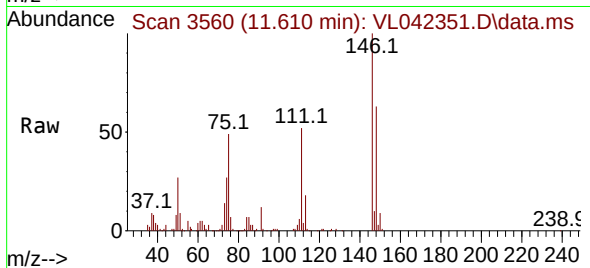
Tgt Ion:146 Resp: 36877

Ion Ratio Lower Upper

146 100

111 48.9 24.3 72.8

148 60.8 31.6 94.8



#76

1,4-Dichlorobenzene

Concen: 1.053 ppbv

RT: 11.675 min Scan# 3580

Delta R.T. 0.004 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

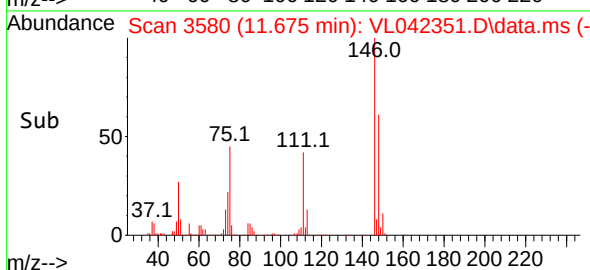
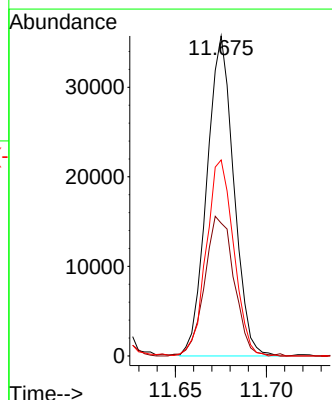
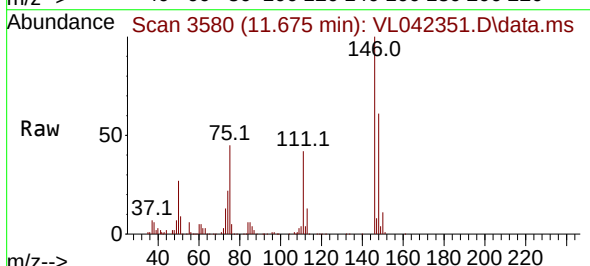
Tgt Ion:146 Resp: 36692

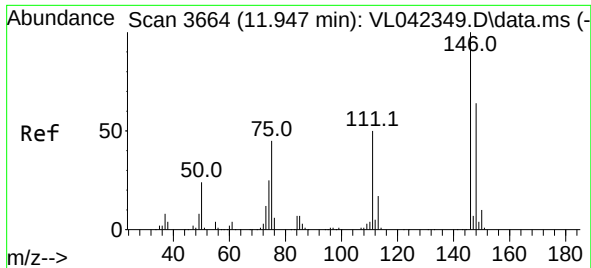
Ion Ratio Lower Upper

146 100

111 47.7 24.2 72.6

148 62.3 32.1 96.5

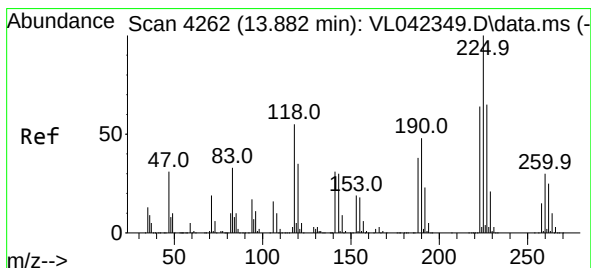
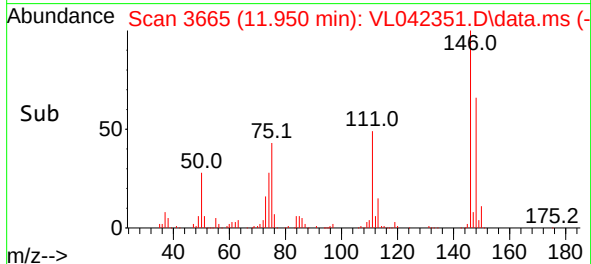
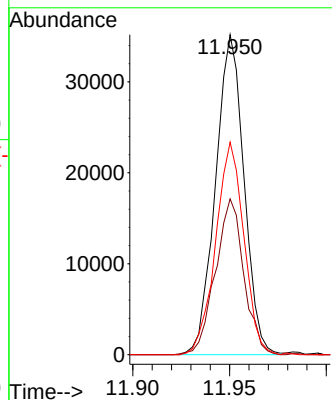
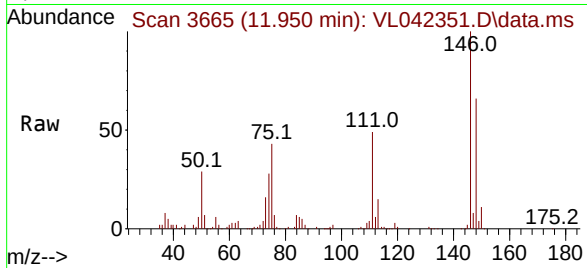




#77
 1,2-Dichlorobenzene
 Concen: 1.068 ppbv
 RT: 11.950 min Scan# 30
 Delta R.T. 0.004 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

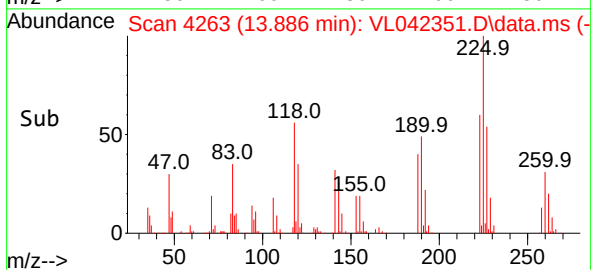
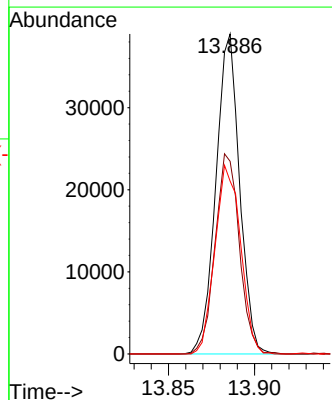
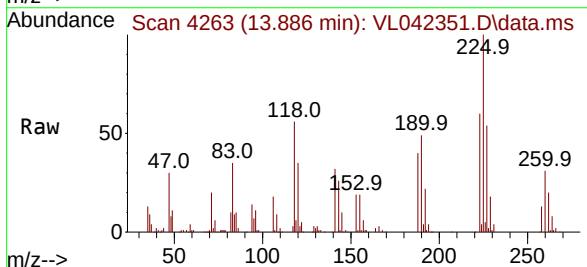
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

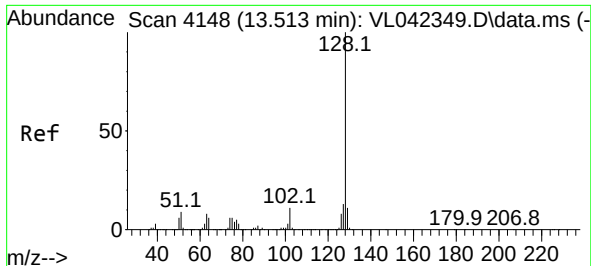
Tgt Ion:146 Resp: 35977
 Ion Ratio Lower Upper
 146 100
 111 48.7 25.3 75.9
 148 65.9 31.5 94.5



#78
 Hexachloro-1,3-Butadiene
 Concen: 1.098 ppbv
 RT: 13.886 min Scan# 4263
 Delta R.T. 0.004 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

Tgt Ion:225 Resp: 37377
 Ion Ratio Lower Upper
 225 100
 223 64.1 50.3 75.5
 227 63.6 51.5 77.3

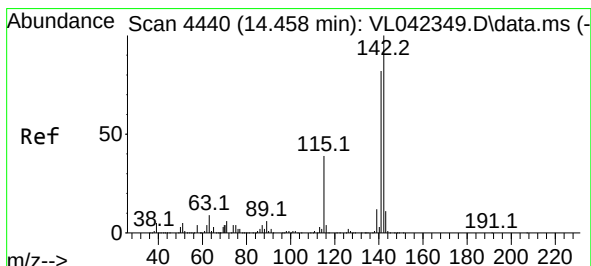
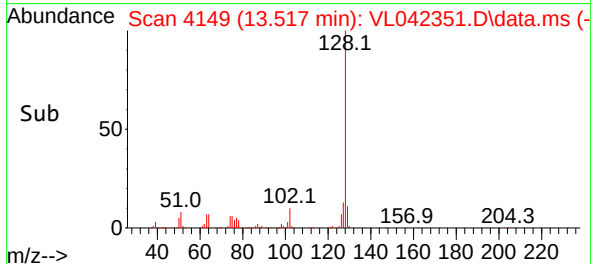
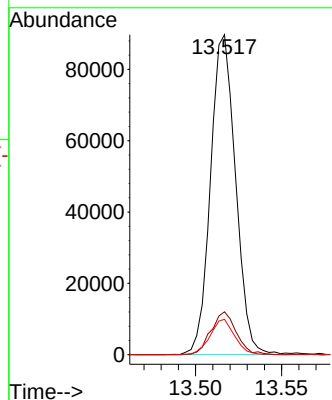
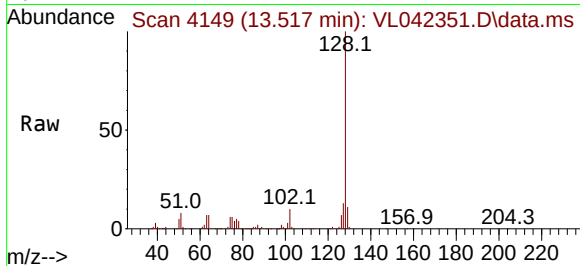




#79
Naphthalene
Concen: 1.138 ppbv
RT: 13.517 min Scan# 4148
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

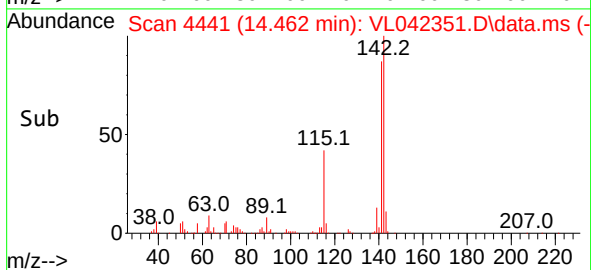
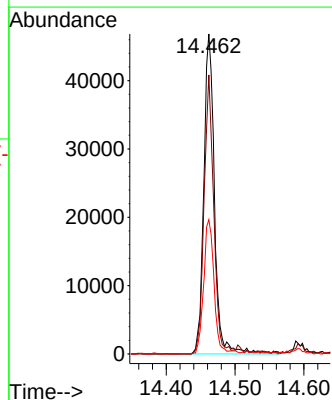
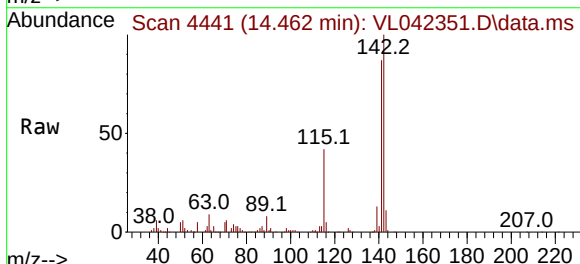
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

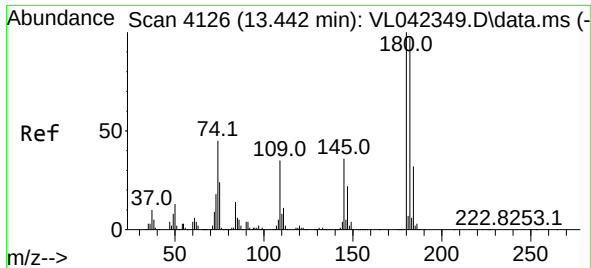
Tgt Ion:128 Resp: 90710
Ion Ratio Lower Upper
128 100
127 13.4 10.6 15.8
129 11.1 8.6 12.8



#80
Naphthalene,2-methyl-
Concen: 1.111 ppbv
RT: 14.462 min Scan# 4441
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:142 Resp: 50487
Ion Ratio Lower Upper
142 100
141 80.9 66.8 100.2
115 41.2 33.4 50.2





#81

1,2,4-Trichlorobenzene

Concen: 1.074 ppbv

RT: 13.442 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042351.D

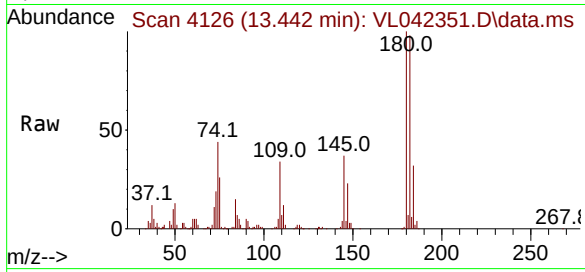
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Instrument :

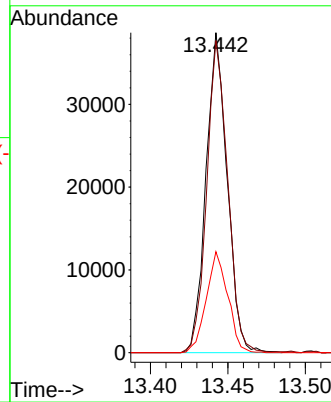
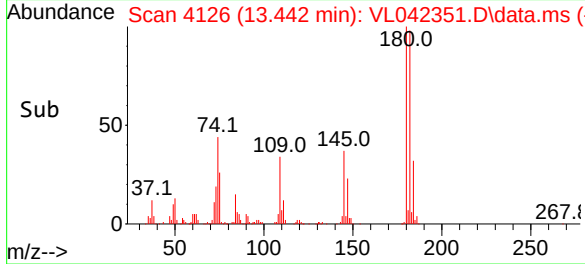
MSVOA_L

ClientSampleId :

VSTDIC001



Tgt Ion:	180	Resp:	36764
Ion	Ratio	Lower	Upper
180	100		
182	97.0	76.8	115.2
184	32.0	24.6	36.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042352.D
 Acq On : 17 Apr 2025 11:19
 Operator : SY/MD
 Sample : VSTDIC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Quant Time: Apr 18 01:28:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 01:24:29 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	120542	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	353137	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	321644	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	265161	10.032	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.300%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	11036	0.518	ppbv	92
3) Chlorodifluoromethane	1.476	51	11304	0.557	ppbv #	84
4) Chloromethane	1.531	50	4534	0.538	ppbv	97
5) Vinyl Chloride	1.580	62	4406	0.480	ppbv	97
6) Bromomethane	1.667	94	2394	0.602	ppbv	95
7) Chloroethane	1.703	64	1824	0.550	ppbv #	87
8) Dichlorotetrafluoroethane	1.554	85	9381	0.513	ppbv	99
9) Propene	1.483	41	5303	0.574	ppbv	93
10) Heptane	4.978	43	5438	0.219	ppbv #	1
11) Trichlorofluoromethane	1.877	101	10150	0.501	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.136	101	8371	0.506	ppbv	93
13) Ethanol	1.719	45	715	0.947	ppbv #	24
14) Bromoethene	1.780	108	3238	0.519	ppbv #	93
15) Acetone	1.835	43	11859	0.601	ppbv #	74
16) 1,3-Butadiene	1.609	39	6120	0.660	ppbv #	82
17) tert-Butyl alcohol	2.043	59	13640	0.558	ppbv #	85
18) 1,1-Dichloroethene	2.033	96	4430	0.556	ppbv #	87
19) Isopropyl Alcohol	1.884	45	6327	0.577	ppbv #	39
20) Methylene Chloride	2.059	84	5273	0.682	ppbv	93
21) Allyl Chloride	2.094	41	7692	0.565	ppbv #	81
22) trans-1,2-Dichloroethene	2.340	96	4908	0.557	ppbv	92
23) Vinyl Acetate	2.460	43	3953	0.495	ppbv #	57
24) 1,1-Dichloroethane	2.408	63	8753	0.523	ppbv #	94
25) Ethyl Acetate	2.835	43	26686	0.548	ppbv #	93
26) Hexane	2.823	57	11448	0.581	ppbv	91
27) Carbon Disulfide	2.149	76	11472	0.544	ppbv #	1
28) Methyl tert-Butyl Ether	2.441	73	6833	0.530	ppbv #	32
29) Chloroform	2.848	83	14815	0.532	ppbv	93
30) Cyclohexane	3.852	84	8572	0.541	ppbv	94
31) cis-1,2-Dichloroethene	2.722	61	9571	0.511	ppbv	96
32) 1,1,1-Trichloroethane	3.370	97	15413	0.516	ppbv	97
34) 2-Butanone	2.560	43	15640	0.560	ppbv	97
35) Carbon Tetrachloride	3.761	117	14683	0.459	ppbv	87
36) Benzene	3.651	78	20233	0.531	ppbv	97
37) 1,2-Dichloroethane	3.217	62	12194	0.533	ppbv #	95
38) Trichloroethene	4.551	130	7819	0.468	ppbv #	78
39) 1,2-Dichloropropane	4.315	63	3195	0.225	ppbv	89
40) 1,4-Dioxane	4.599	88	2550	0.331	ppbv #	1
41) Tetrahydrofuran	3.062	42	8773	0.544	ppbv	95
42) Bromodichloromethane	4.489	83	16642	0.523	ppbv #	91
43) Methyl Methacrylate	4.871	69	1556	0.091	ppbv #	1
44) 2,2,4-Trimethylpentane	4.635	57	34170	0.519	ppbv	91
45) t-1,3-Dichloropropene	6.393	75	1332	0.076	ppbv	92

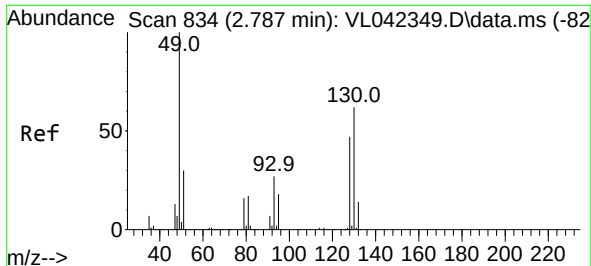
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 Data File : VL042352.D
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 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Quant Time: Apr 18 01:28:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 01:24:29 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.596	75	7634	0.356	ppbv #	91
47) 1,1,2-Trichloroethane	6.590	97	2374	0.164	ppbv	94
48) Dibromochloromethane	7.386	129	13122	0.514	ppbv	97
49) Bromoform	9.477	173	10988	0.492	ppbv	99
50) 4-Methyl-2-Pentanone	5.761	43	14380	0.309	ppbv #	39
51) 2-Hexanone	7.441	43	23684	0.564	ppbv	98
52) Tetrachloroethene	8.221	164	7412	0.503	ppbv #	88
53) Toluene	6.927	91	24200	0.529	ppbv	97
54) 1,2-Dibromoethane	7.645	107	10282	0.499	ppbv	84
56) 1,1,1,2-Tetrachloroethane	8.930	131	9987	0.513	ppbv #	1
57) Chlorobenzene	8.924	112	6884	0.206	ppbv	90
58) Ethyl Benzene	9.351	91	32624	0.512	ppbv	97
59) m/p-Xylene	9.548	91	22598	0.439	ppbv #	32
60) o-Xylene	9.963	91	27983	0.541	ppbv	99
61) Styrene	9.869	104	12736	0.516	ppbv	96
62) Isopropylbenzene	10.539	105	40481	0.533	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.959	83	15920	0.474	ppbv	99
64) n-propylbenzene	10.985	120	10369	0.544	ppbv	97
65) tert-Butylbenzene	11.529	119	37294	0.535	ppbv	93
66) Benzyl Chloride	11.613	91	3878	0.506	ppbv #	91
67) sec-Butylbenzene	11.765	105	52139	0.537	ppbv	97
69) p-Isopropyltoluene	11.924	119	45574	0.541	ppbv	98
70) n-Butylbenzene	12.280	91	48004	0.547	ppbv	99
71) 2-Chlorotoluene	10.898	91	31709	0.533	ppbv	100
72) 4-Ethyltoluene	11.125	105	33048	0.523	ppbv #	95
73) 1,3,5-Trimethylbenzene	11.202	105	30464	0.546	ppbv	99
74) 1,2,4-Trimethylbenzene	11.536	105	37765	0.579	ppbv #	90
75) 1,3-Dichlorobenzene	11.607	146	18003	0.531	ppbv	99
76) 1,4-Dichlorobenzene	11.668	146	18300	0.537	ppbv	96
77) 1,2-Dichlorobenzene	11.947	146	17446	0.530	ppbv	95
78) Hexachloro-1,3-Butadiene	13.879	225	18705	0.562	ppbv	98
79) Naphthalene	13.513	128	38521	0.494	ppbv #	92
80) Naphthalene,2-methyl-	14.458	142	21076	0.475	ppbv	96
81) 1,2,4-Trichlorobenzene	13.442	180	16504	0.493	ppbv	97

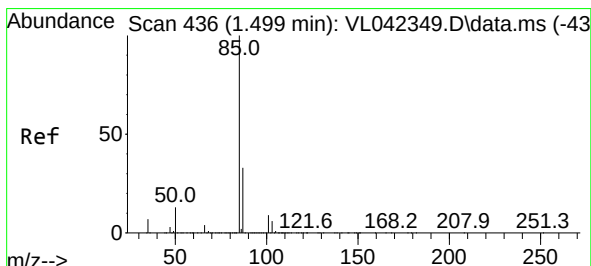
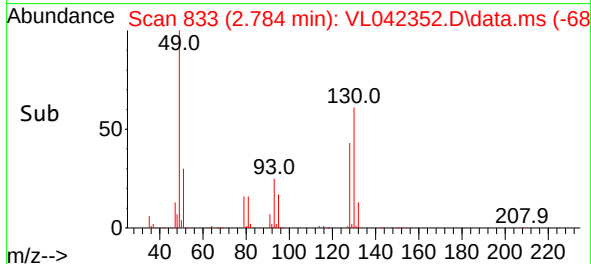
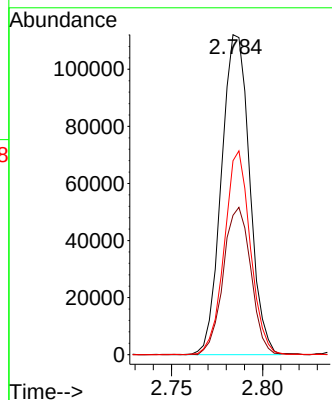
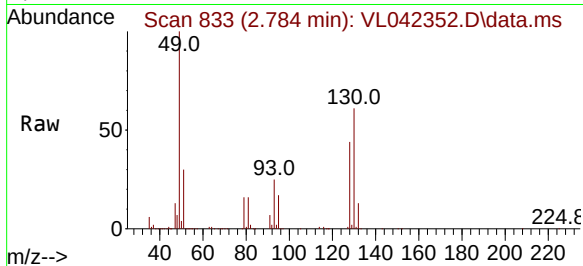
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

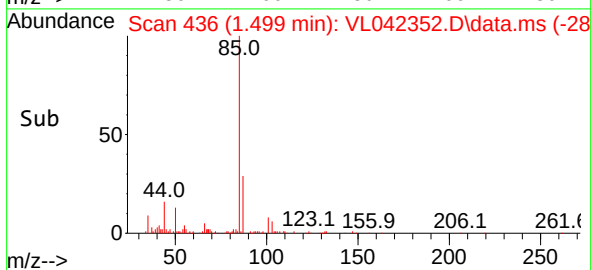
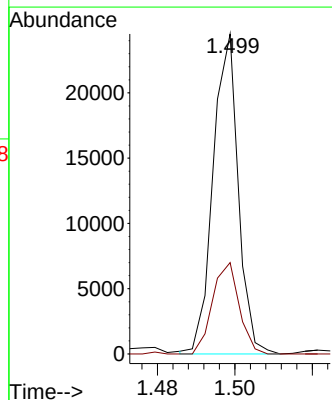
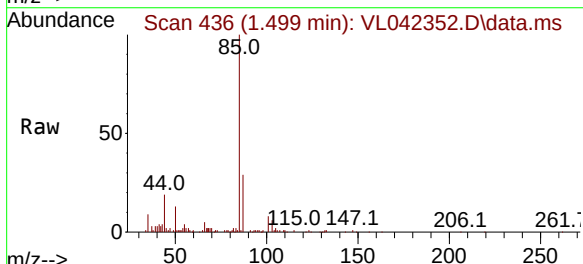
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

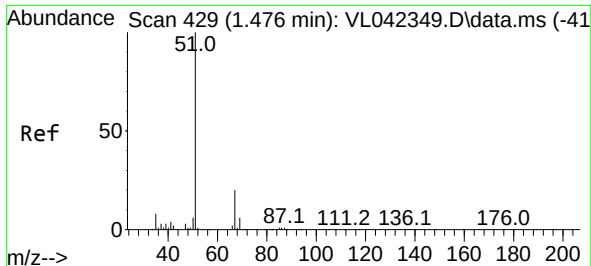
Tgt Ion: 49 Resp: 120542
Ion Ratio Lower Upper
49 100
128 45.3 22.8 68.4
130 59.0 29.3 88.0



#2
Dichlorodifluoromethane
Concen: 0.518 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 85 Resp: 11036
Ion Ratio Lower Upper
85 100
87 28.6 26.6 39.8

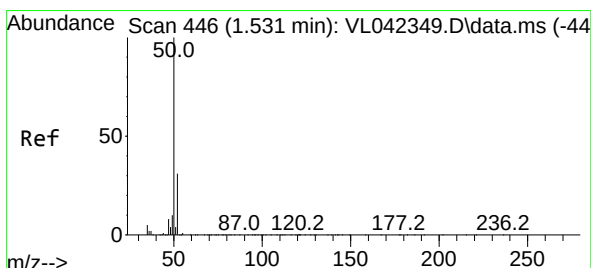
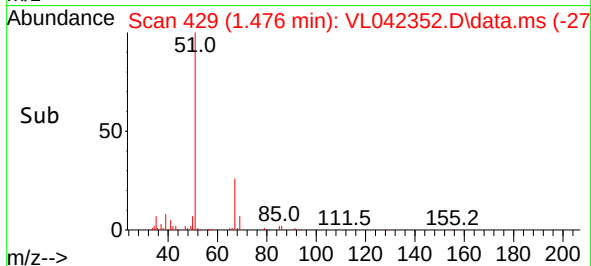
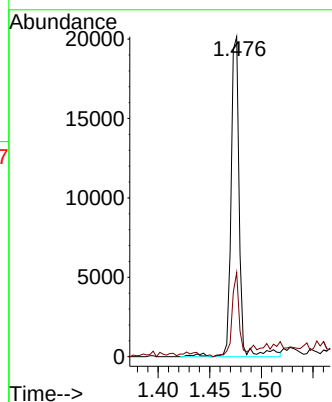
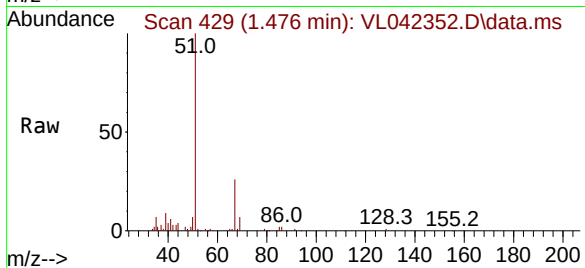




#3
Chlorodifluoromethane
Concen: 0.557 ppbv
RT: 1.476 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

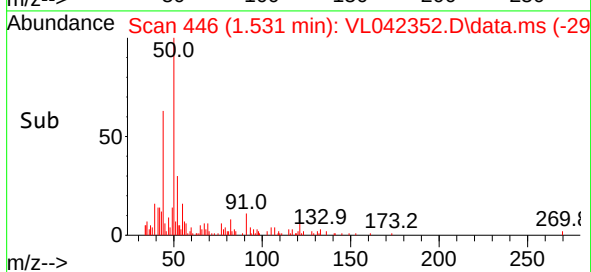
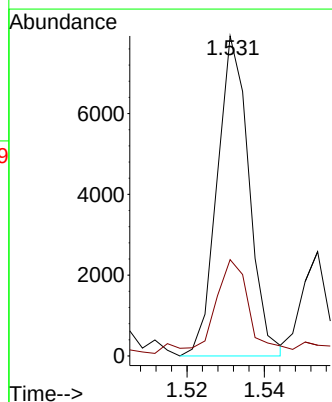
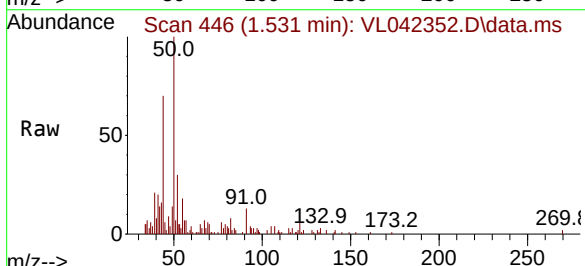
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

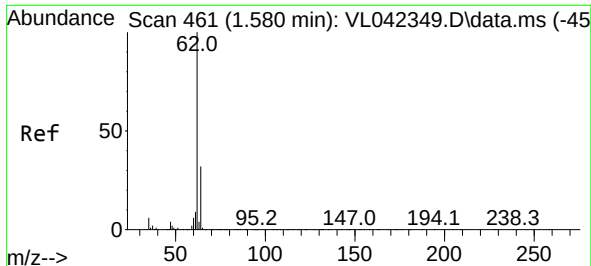
Tgt Ion: 51 Resp: 11304
Ion Ratio Lower Upper
51 100
67 27.8 16.2 24.4#



#4
Chloromethane
Concen: 0.538 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 50 Resp: 4534
Ion Ratio Lower Upper
50 100
52 32.8 24.7 37.1

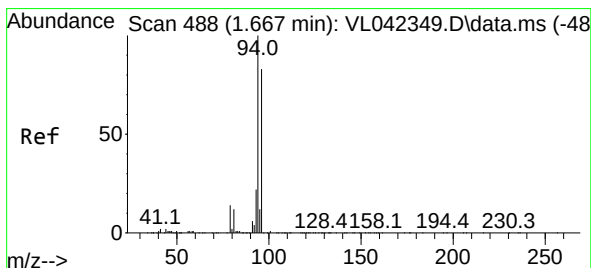
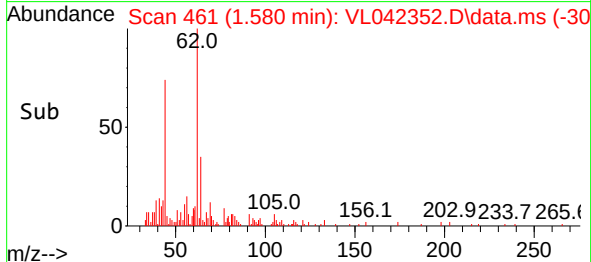
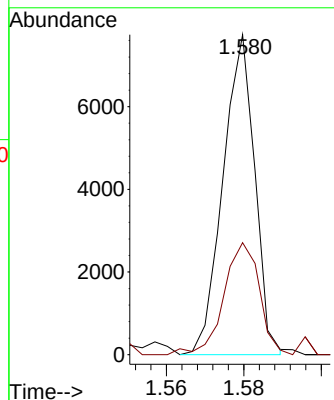
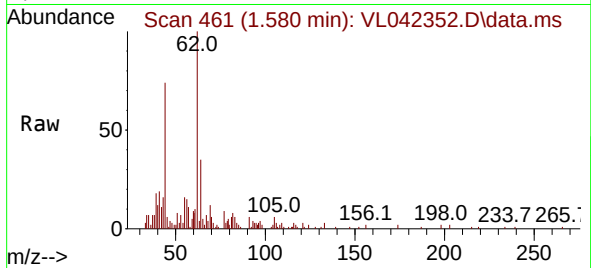




#5
 Vinyl Chloride
 Concen: 0.480 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. -0.000 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19

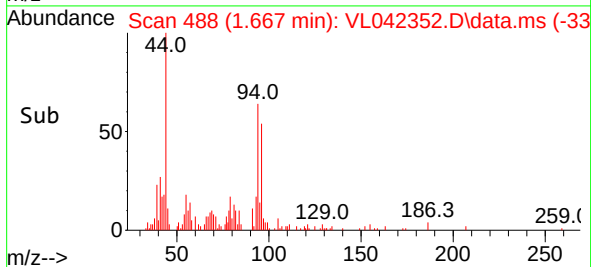
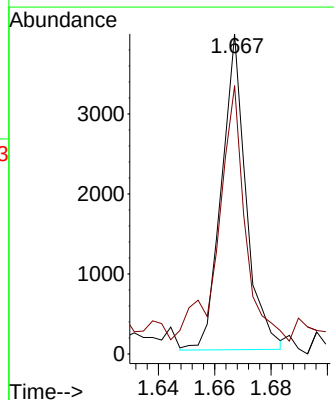
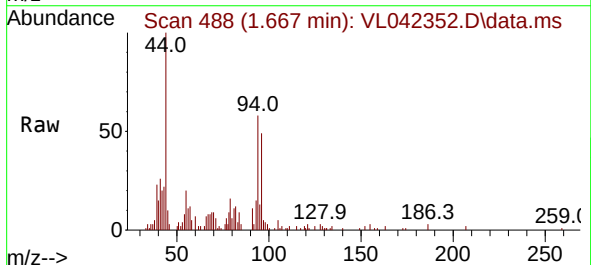
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

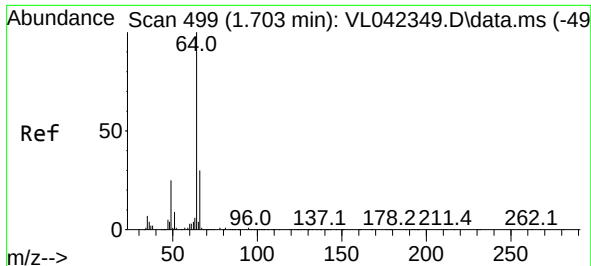
Tgt Ion: 62 Resp: 4406
 Ion Ratio Lower Upper
 62 100
 64 33.5 25.4 38.0



#6
 Bromomethane
 Concen: 0.602 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. -0.000 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19

Tgt Ion: 94 Resp: 2394
 Ion Ratio Lower Upper
 94 100
 96 78.1 66.2 99.2

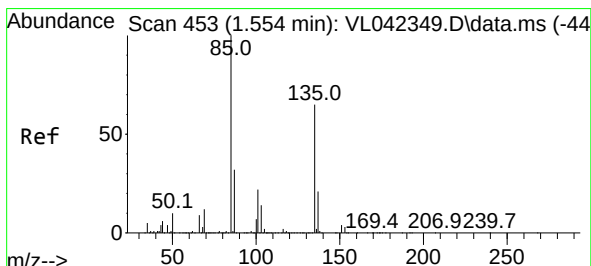
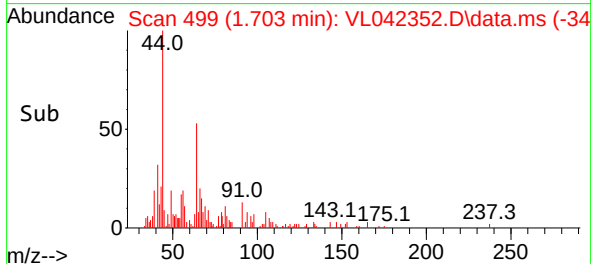
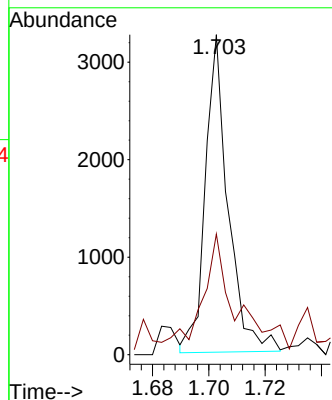
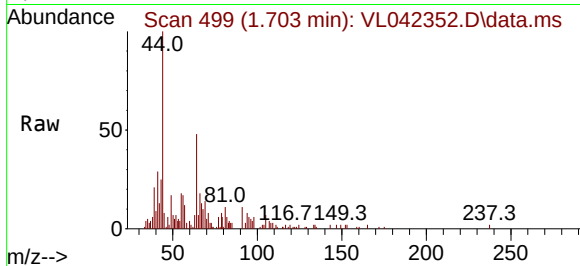




#7
Chloroethane
Concen: 0.550 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

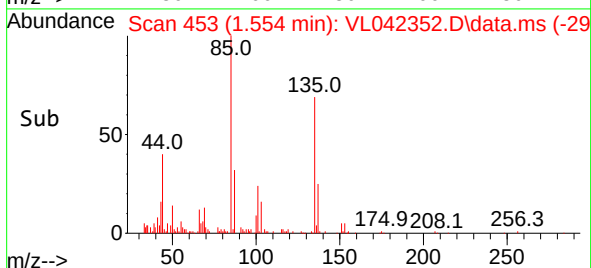
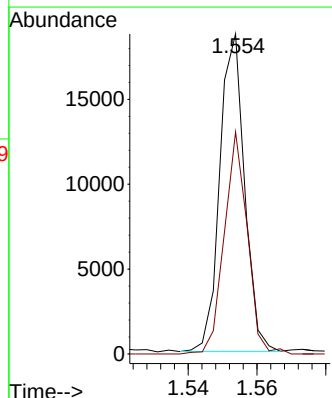
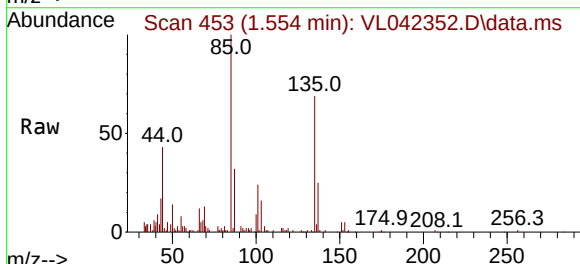
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

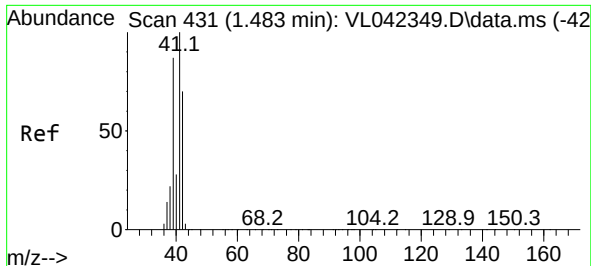
Tgt Ion: 64 Resp: 1824
Ion Ratio Lower Upper
64 100
66 37.7 24.6 37.0#



#8
Dichlorotetrafluoroethane
Concen: 0.513 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 85 Resp: 9381
Ion Ratio Lower Upper
85 100
135 66.2 52.2 78.2





#9

Propene

Concen: 0.574 ppbv

RT: 1.483 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA_1

ClientSampleId :

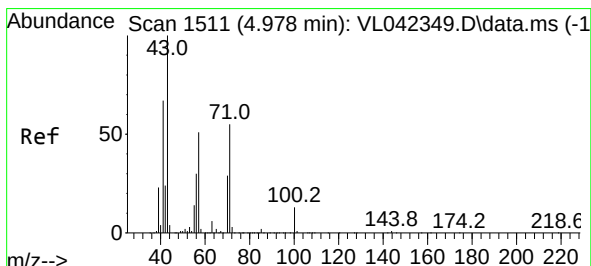
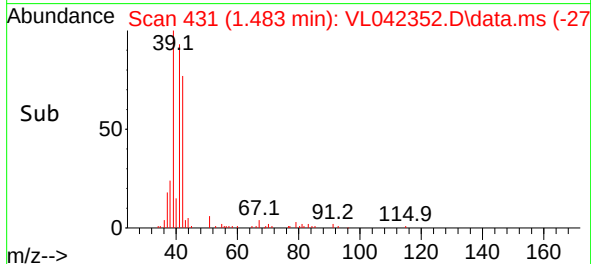
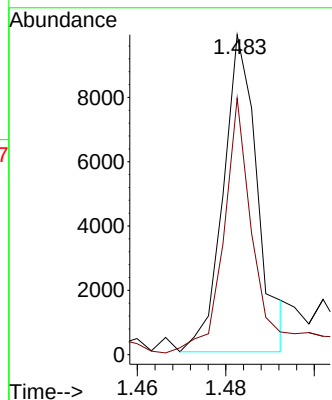
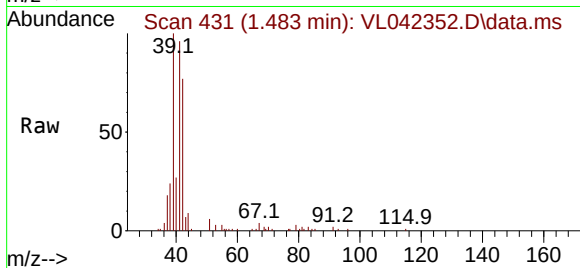
VSTDIC0.5

Tgt Ion: 41 Resp: 5303

Ion Ratio Lower Upper

41 100

42 64.8 56.2 84.4



#10

Heptane

Concen: 0.219 ppbv

RT: 4.978 min Scan# 1511

Delta R.T. -0.000 min

Lab File: VL042352.D

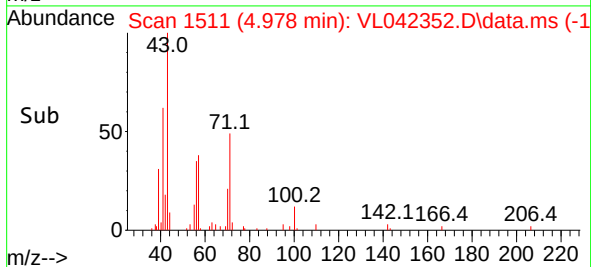
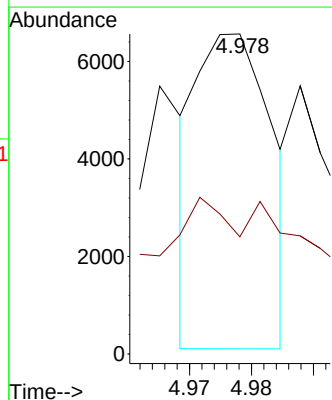
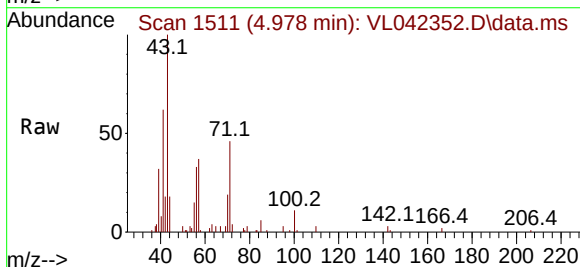
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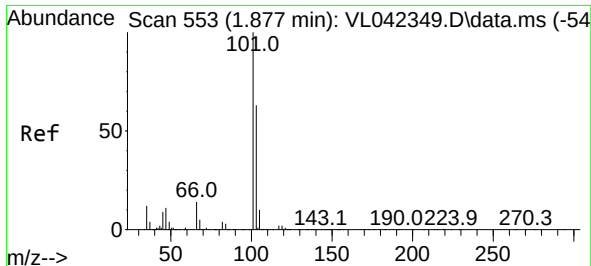
Tgt Ion: 43 Resp: 5438

Ion Ratio Lower Upper

43 100

57 138.4 39.9 59.9#

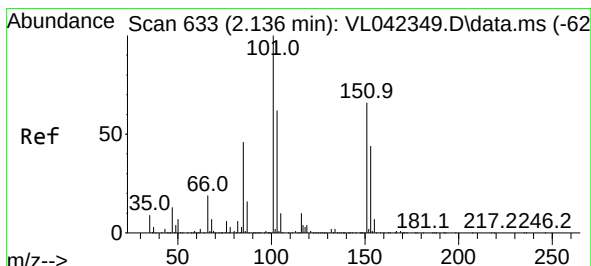
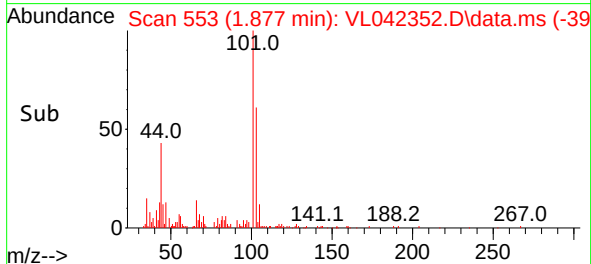
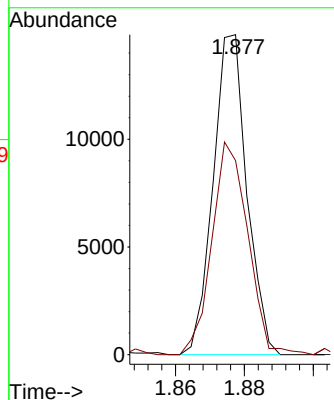
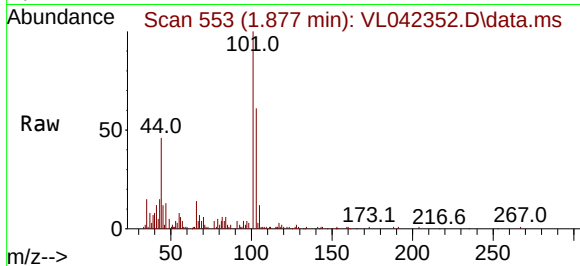




#11
 Trichlorofluoromethane
 Concen: 0.501 ppbv
 RT: 1.877 min Scan# 511
 Delta R.T. -0.000 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19

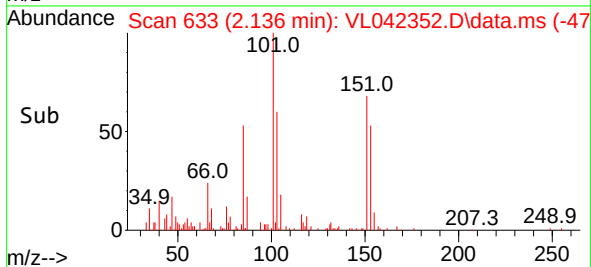
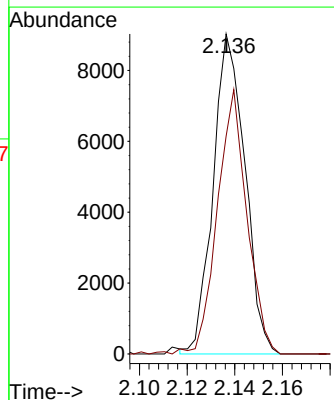
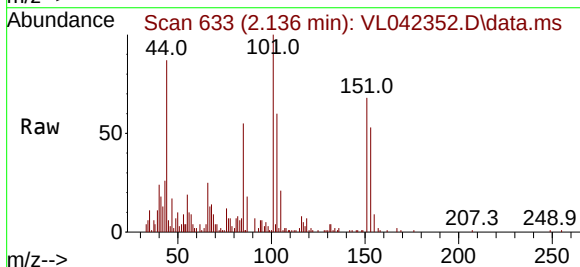
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

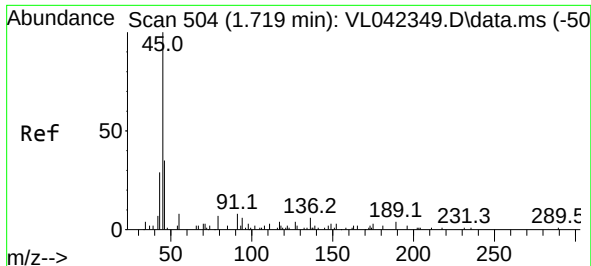
Tgt Ion:101 Resp: 10150
 Ion Ratio Lower Upper
 101 100
 103 60.6 50.1 75.1



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.506 ppbv
 RT: 2.136 min Scan# 633
 Delta R.T. -0.000 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19

Tgt Ion:101 Resp: 8371
 Ion Ratio Lower Upper
 101 100
 151 77.4 57.0 85.6

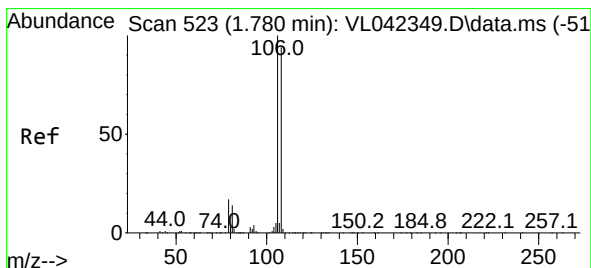
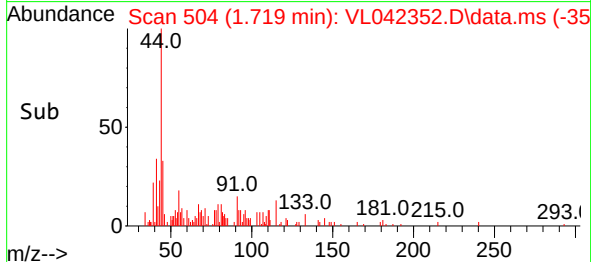
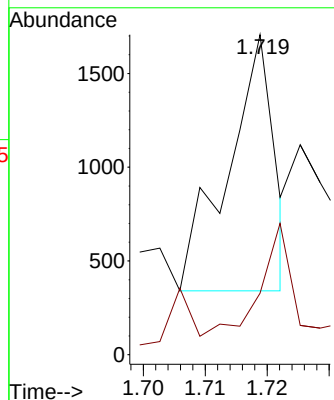
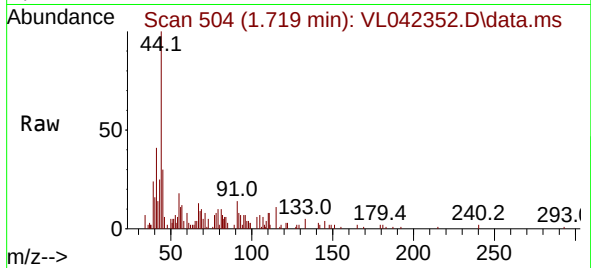




#13
Ethanol
Concen: 0.947 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

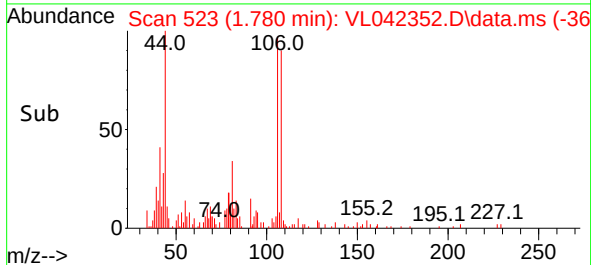
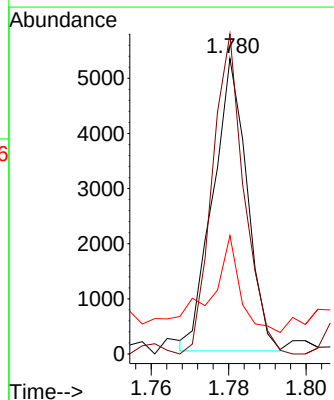
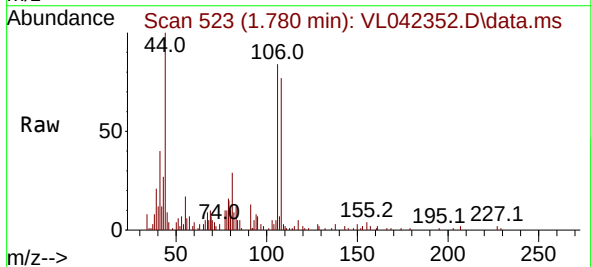
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

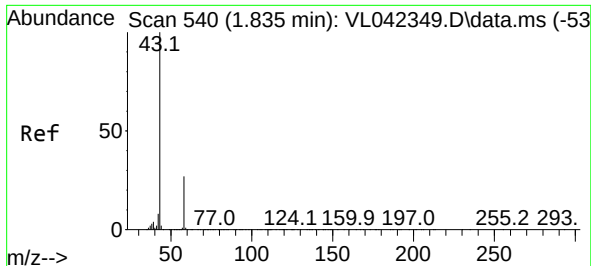
Tgt Ion: 45 Resp: 715
Ion Ratio Lower Upper
45 100
46 0.0 21.9 87.7#



#14
Bromoethene
Concen: 0.519 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 108 Resp: 3238
Ion Ratio Lower Upper
108 100
106 110.3 85.9 128.9
79 33.0 13.9 20.9#

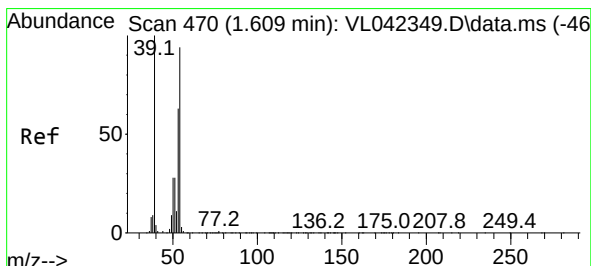
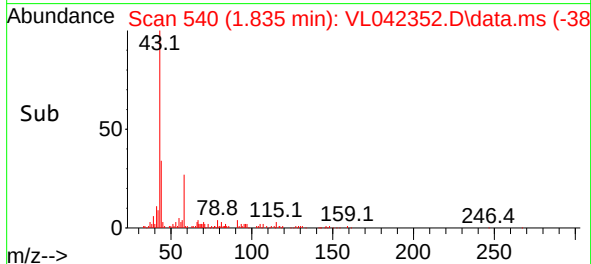
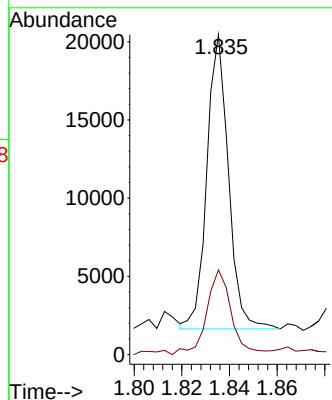
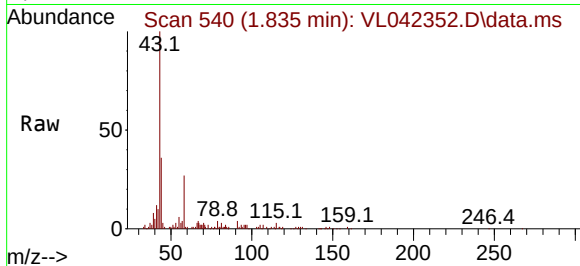




#15
Acetone
Concen: 0.601 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

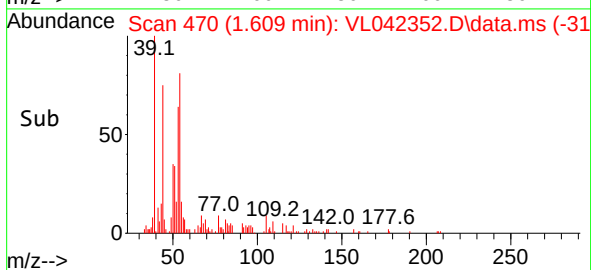
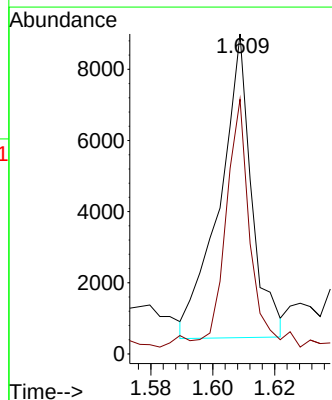
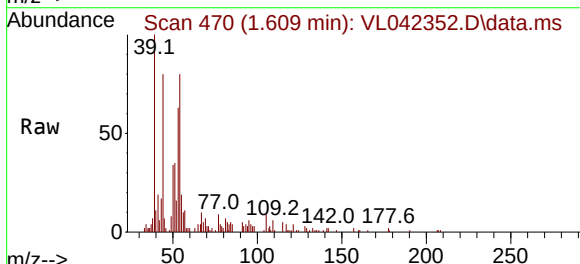
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

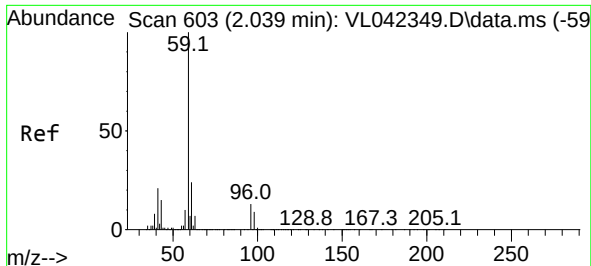
Tgt Ion: 43 Resp: 11859
Ion Ratio Lower Upper
43 100
58 41.7 22.4 33.6#



#16
1,3-Butadiene
Concen: 0.660 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 39 Resp: 6120
Ion Ratio Lower Upper
39 100
54 64.7 64.9 97.3#





#17

tert-Butyl alcohol

Concen: 0.558 ppbv

RT: 2.043 min Scan# 603

Delta R.T. 0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA_1

ClientSampleId :

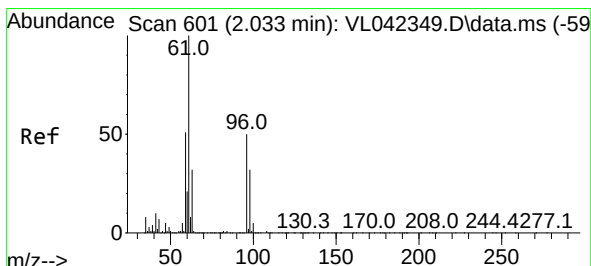
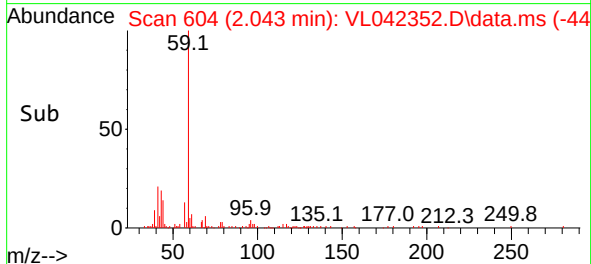
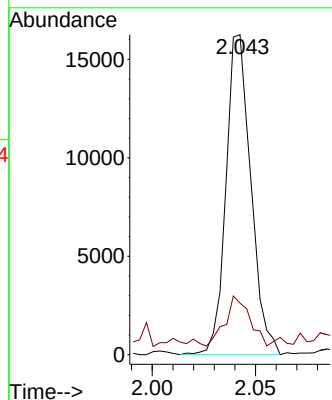
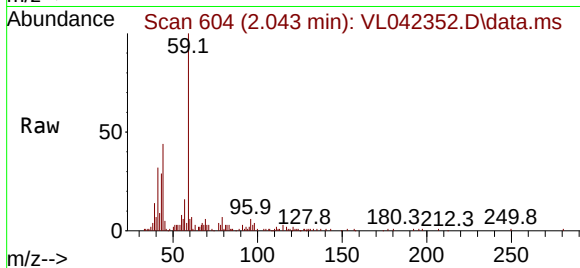
VSTDIC0.5

Tgt Ion: 59 Resp: 13640

Ion Ratio Lower Upper

59 100

57 16.5 8.7 13.1#



#18

1,1-Dichloroethene

Concen: 0.556 ppbv

RT: 2.033 min Scan# 601

Delta R.T. -0.000 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

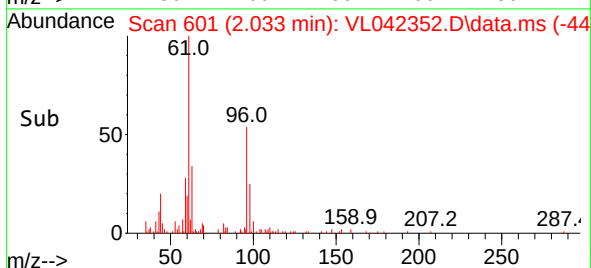
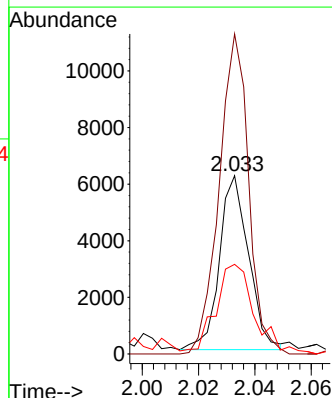
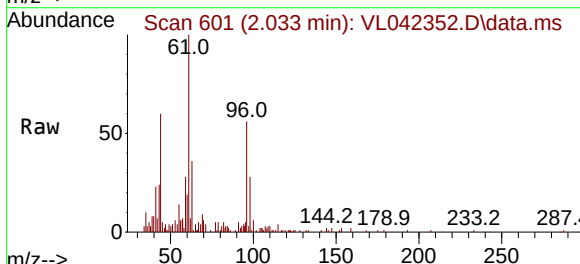
Tgt Ion: 96 Resp: 4430

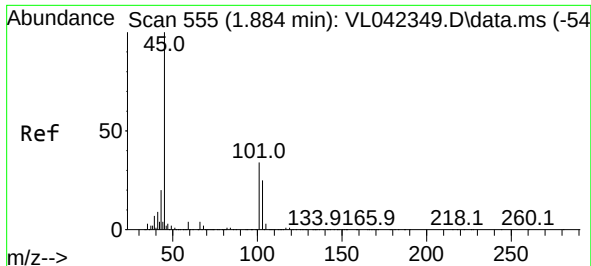
Ion Ratio Lower Upper

96 100

61 183.9 160.2 240.2

98 49.7 51.0 76.4#

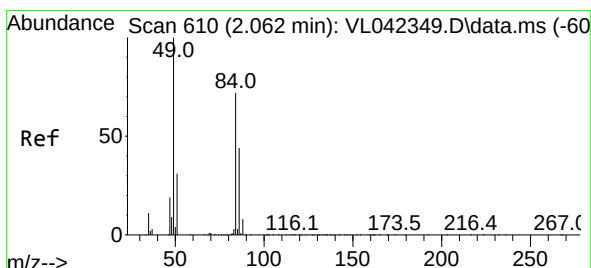
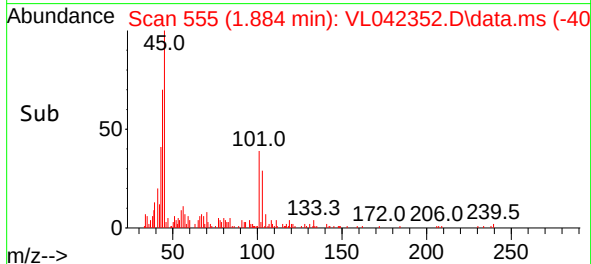
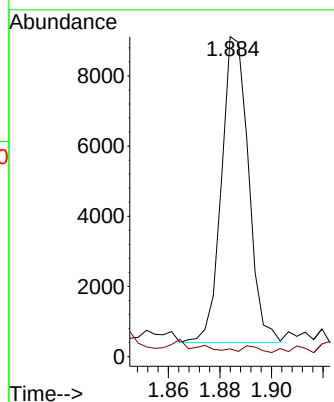
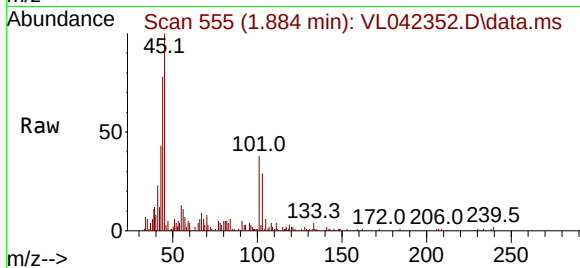




#19
Isopropyl Alcohol
Concen: 0.577 ppbv
RT: 1.884 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

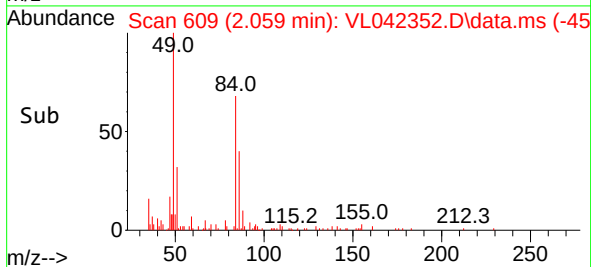
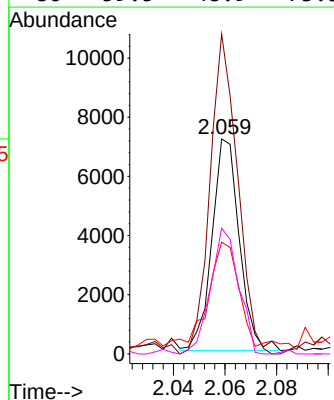
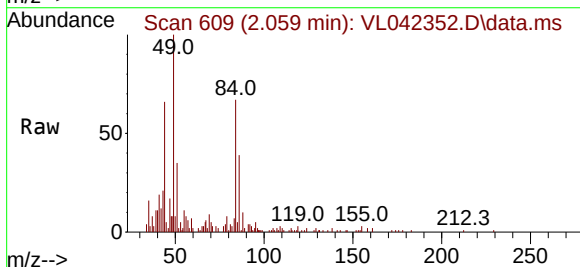
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

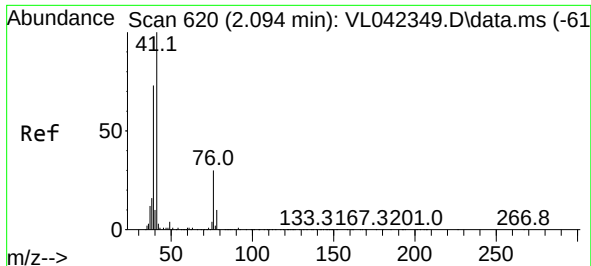
Tgt Ion: 45 Resp: 6327
Ion Ratio Lower Upper
45 100
58 3.8 34.5 51.7#



#20
Methylene Chloride
Concen: 0.682 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 84 Resp: 5273
Ion Ratio Lower Upper
84 100
49 151.3 111.6 167.4
51 48.1 35.1 52.7
86 59.5 48.9 73.3

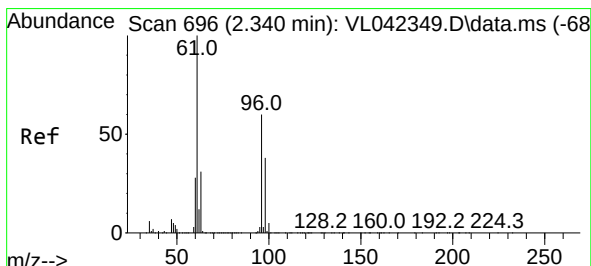
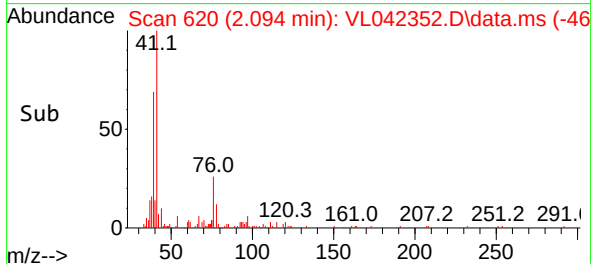
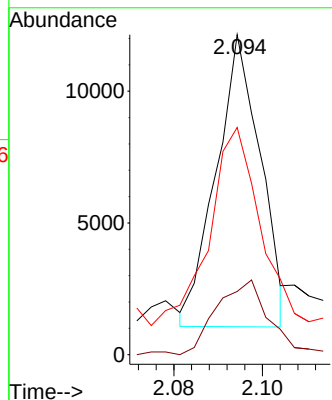
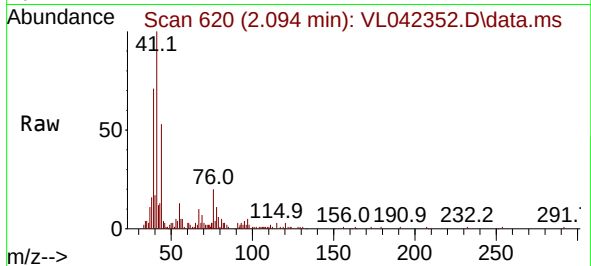




#21
 Allyl Chloride
 Concen: 0.565 ppbv
 RT: 2.094 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19

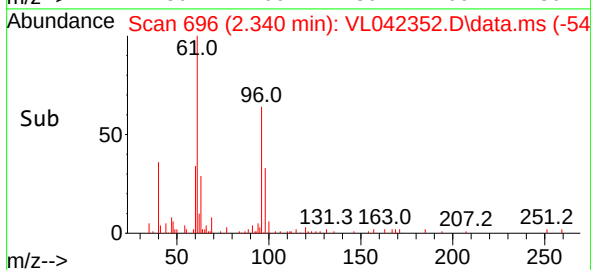
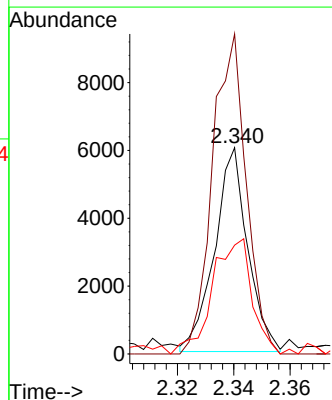
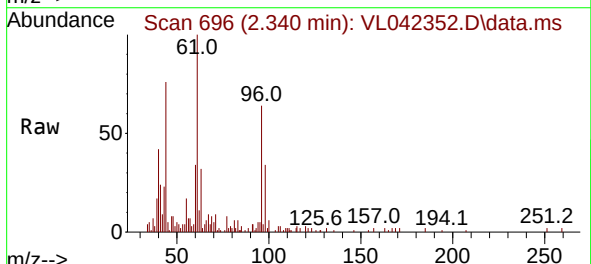
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

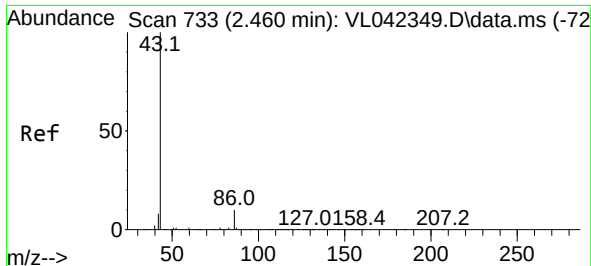
Tgt Ion: 41 Resp: 7692
 Ion Ratio Lower Upper
 41 100
 76 31.1 24.8 37.2
 39 98.8 60.6 90.8#



#22
 trans-1,2-Dichloroethene
 Concen: 0.557 ppbv
 RT: 2.340 min Scan# 696
 Delta R.T. -0.000 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19

Tgt Ion: 96 Resp: 4908
 Ion Ratio Lower Upper
 96 100
 61 158.7 133.7 200.5
 98 54.0 50.3 75.5

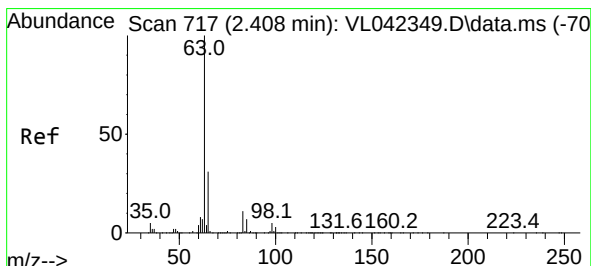
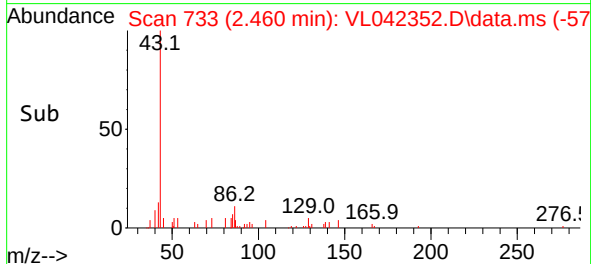
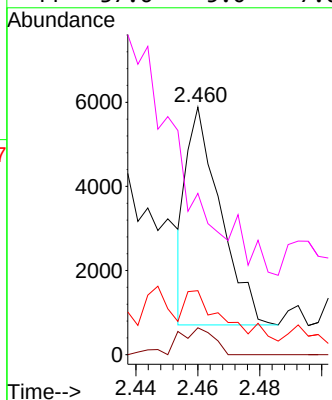
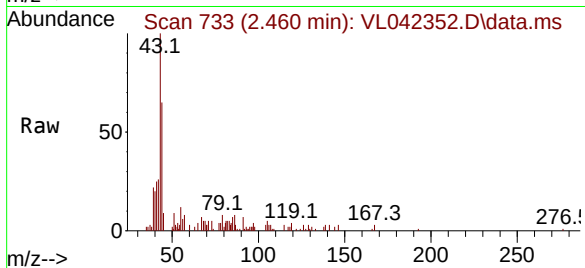




#23
 Vinyl Acetate
 Concen: 0.495 ppbv
 RT: 2.460 min Scan# 717
 Delta R.T. -0.000 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19

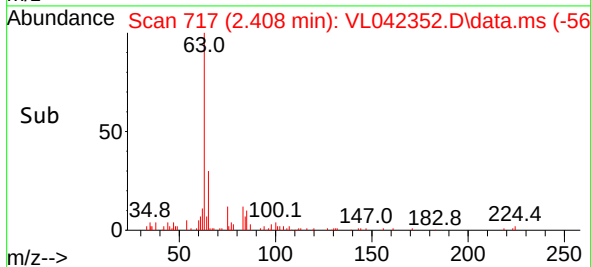
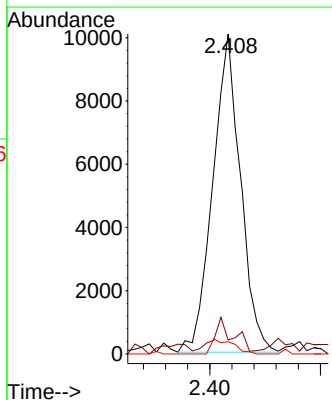
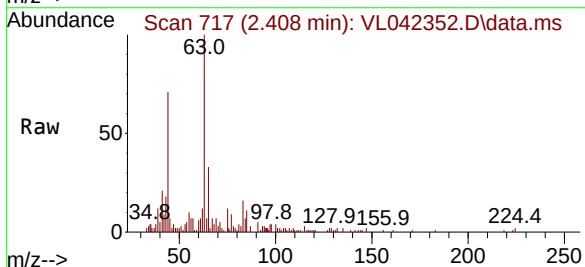
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

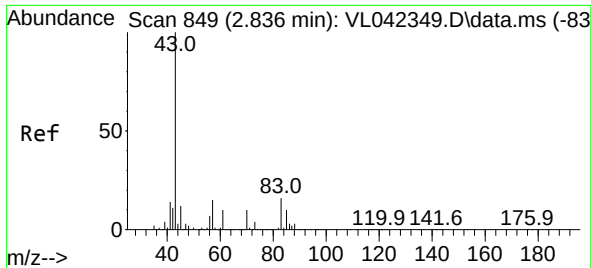
Tgt Ion:	43	Resp:	3953
Ion	Ratio	Lower	Upper
43	100		
86	12.4	6.5	9.7#
42	23.2	7.8	11.8#
44	37.6	5.0	7.6#



#24
 1,1-Dichloroethane
 Concen: 0.523 ppbv
 RT: 2.408 min Scan# 717
 Delta R.T. -0.000 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19

Tgt Ion:	63	Resp:	8753
Ion	Ratio	Lower	Upper
63	100		
98	1.4	2.3	6.8#
100	3.8	1.6	4.8

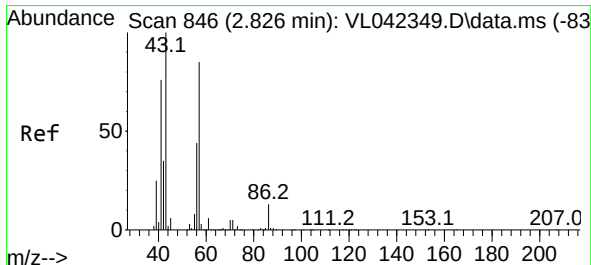
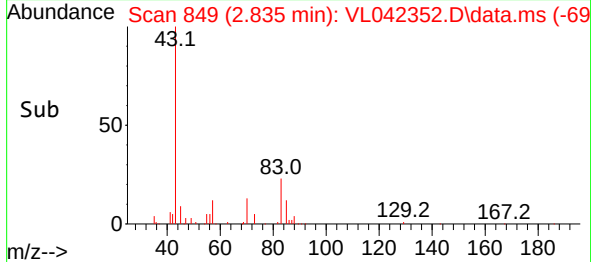
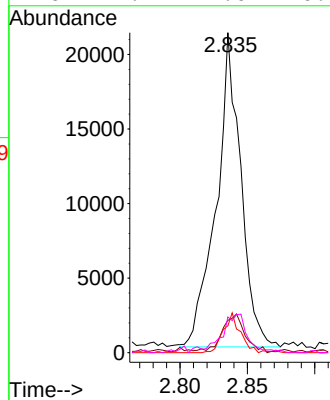
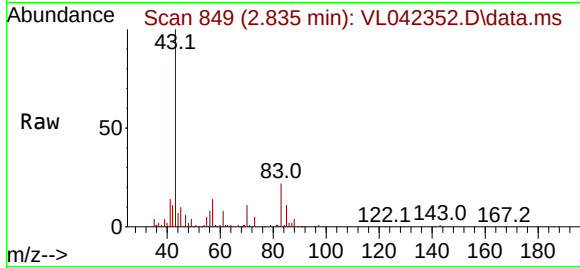




#25
Ethyl Acetate
Concen: 0.548 ppbv
RT: 2.835 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

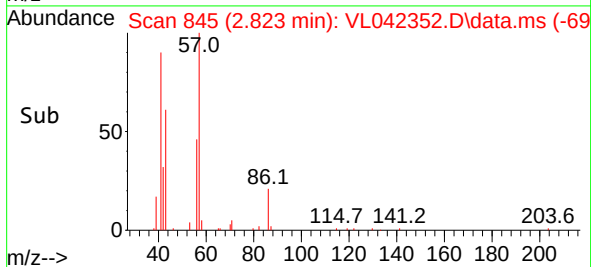
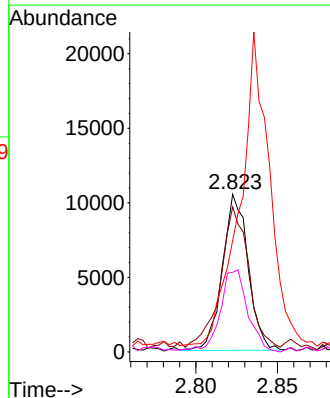
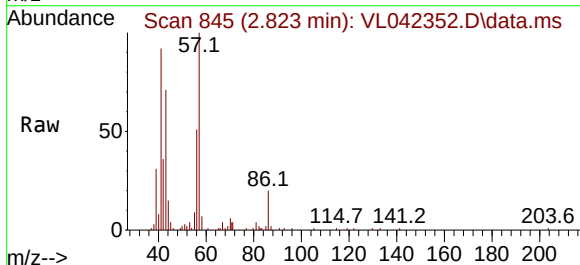
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

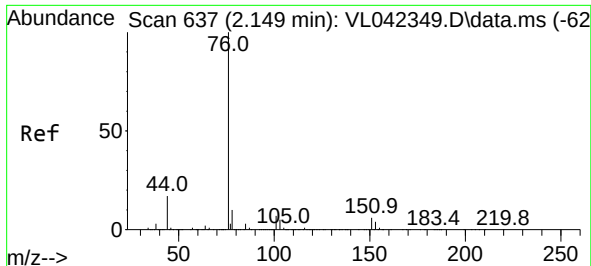
Tgt Ion:	43	Resp:	26686
Ion	Ratio	Lower	Upper
43	100		
45	13.3	8.3	12.5#
61	9.0	7.3	10.9
70	14.1	7.0	10.6#



#26
Hexane
Concen: 0.581 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:	57	Resp:	11448
Ion	Ratio	Lower	Upper
57	100		
41	103.5	77.9	116.9
43	240.0	208.4	312.6
56	52.5	43.1	64.7

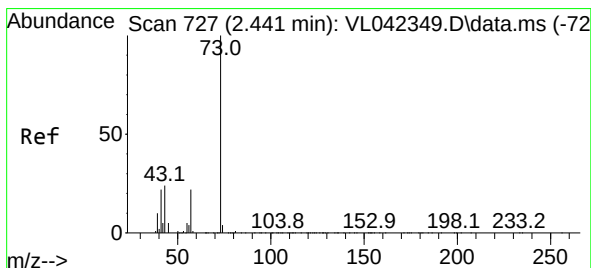
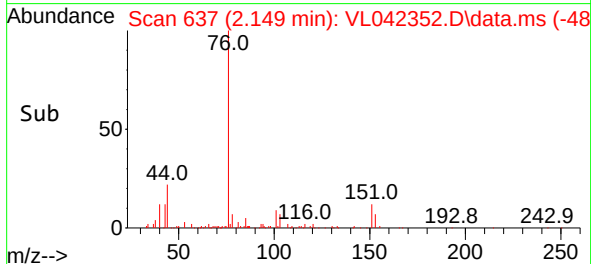
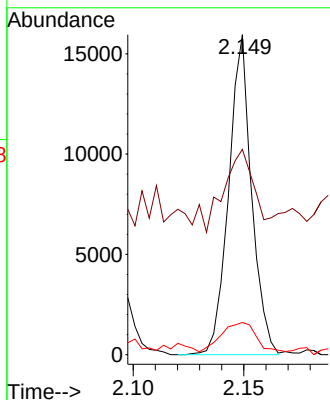
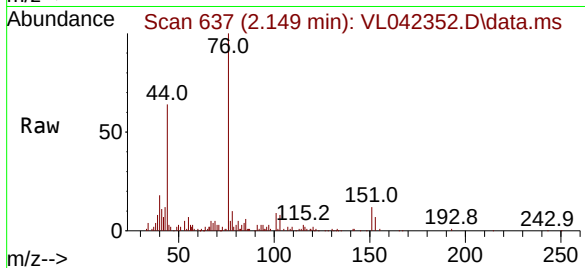




#27
Carbon Disulfide
Concen: 0.544 ppbv
RT: 2.149 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

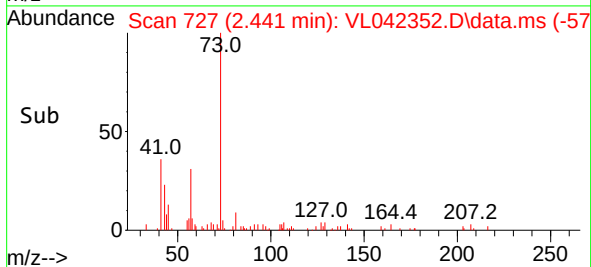
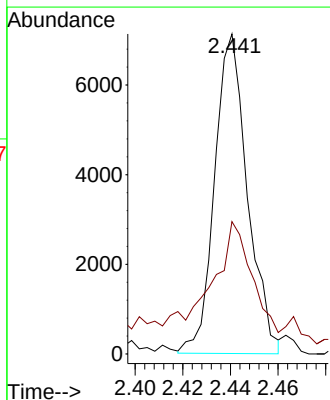
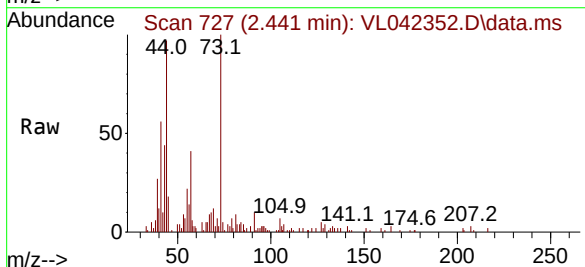
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

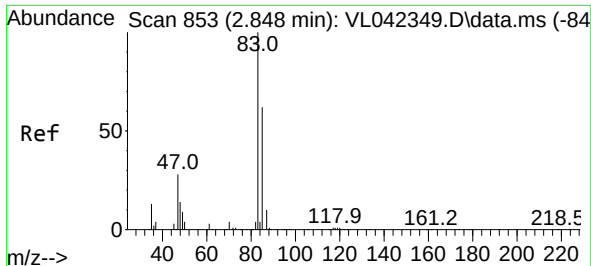
Tgt Ion: 76 Resp: 11472
Ion Ratio Lower Upper
76 100
44 123.7 15.5 23.3#
78 18.8 9.3 13.9#



#28
Methyl tert-Butyl Ether
Concen: 0.530 ppbv
RT: 2.441 min Scan# 727
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 73 Resp: 6833
Ion Ratio Lower Upper
73 100
57 61.8 21.3 31.9#





#29

Chloroform

Concen: 0.532 ppbv

RT: 2.848 min Scan# 853

Delta R.T. -0.000 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA_L

ClientSampleId :

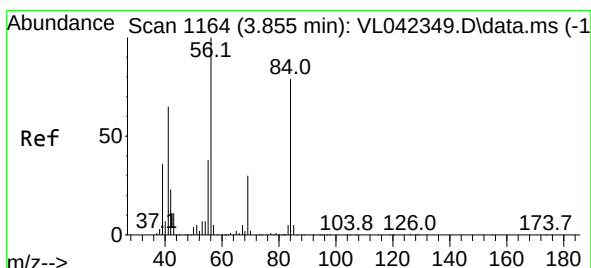
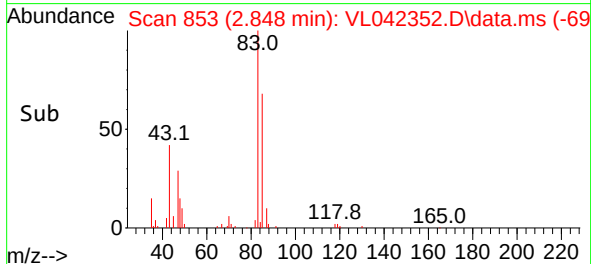
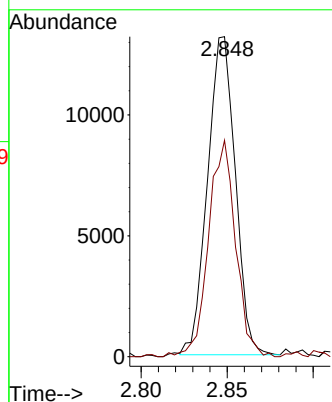
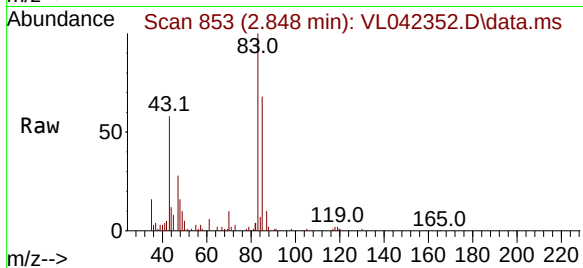
VSTDICC0.5

Tgt Ion: 83 Resp: 14815

Ion Ratio Lower Upper

83 100

85 68.0 50.0 75.0



#30

Cyclohexane

Concen: 0.541 ppbv

RT: 3.852 min Scan# 1163

Delta R.T. -0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

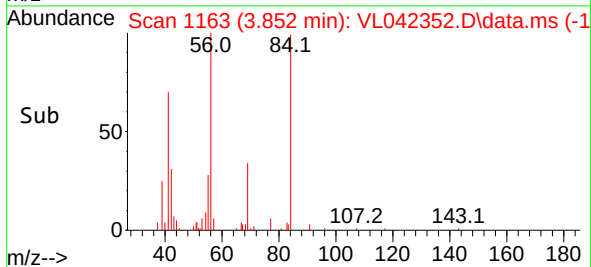
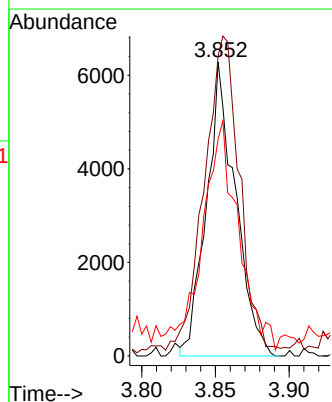
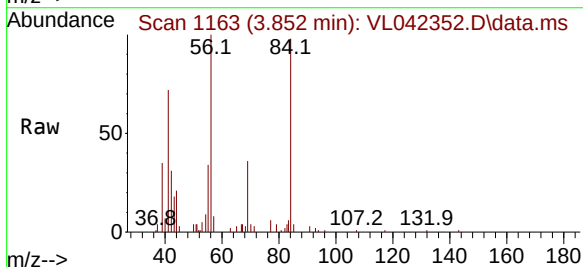
Tgt Ion: 84 Resp: 8572

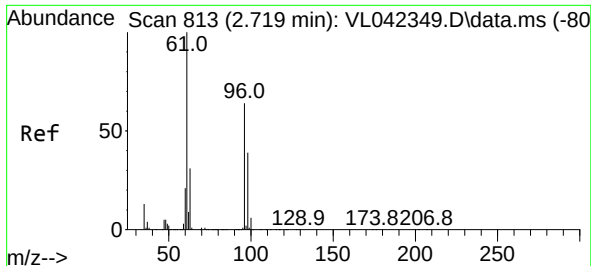
Ion Ratio Lower Upper

84 100

56 132.8 101.0 151.4

41 89.8 67.4 101.0

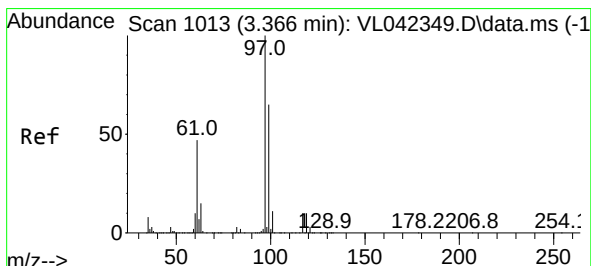
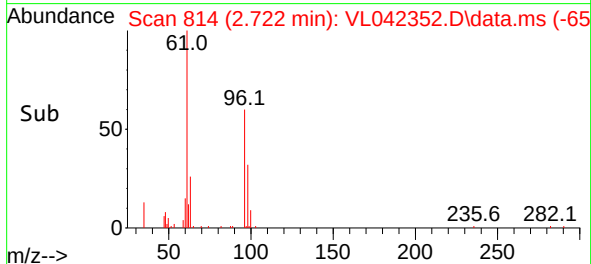
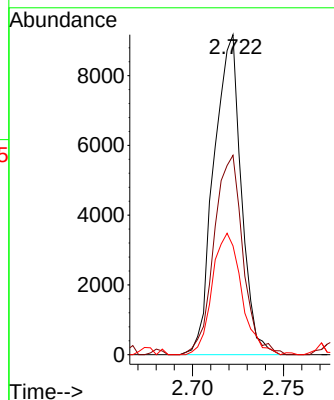
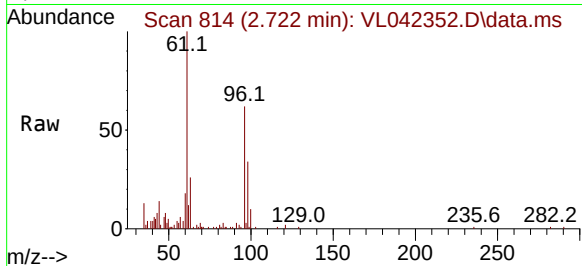




#31
 cis-1,2-Dichloroethene
 Concen: 0.511 ppbv
 RT: 2.722 min Scan# 813
 Delta R.T. 0.003 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19

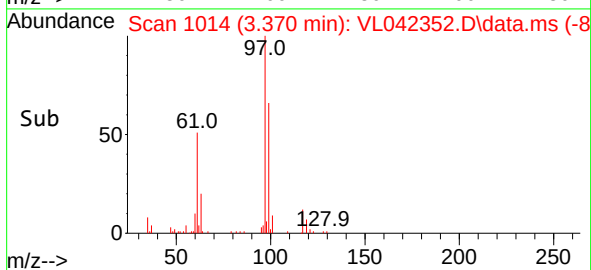
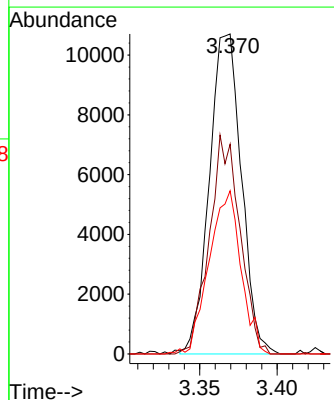
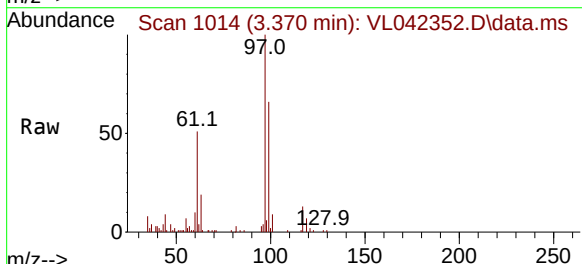
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

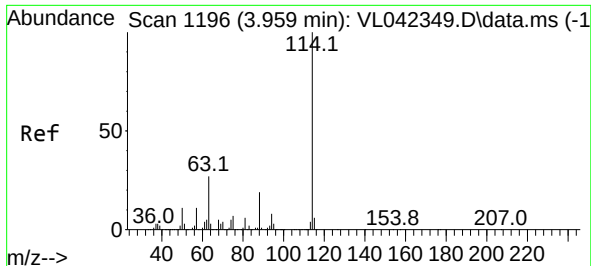
Tgt Ion: 61 Resp: 9571
 Ion Ratio Lower Upper
 61 100
 96 62.3 50.8 76.2
 98 34.0 30.9 46.3



#32
 1,1,1-Trichloroethane
 Concen: 0.516 ppbv
 RT: 3.370 min Scan# 1014
 Delta R.T. 0.003 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19

Tgt Ion: 97 Resp: 15413
 Ion Ratio Lower Upper
 97 100
 99 65.6 51.0 76.4
 61 50.8 38.8 58.2

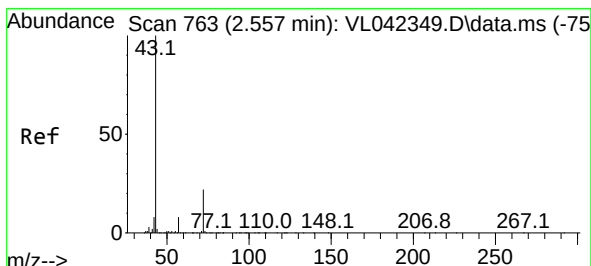
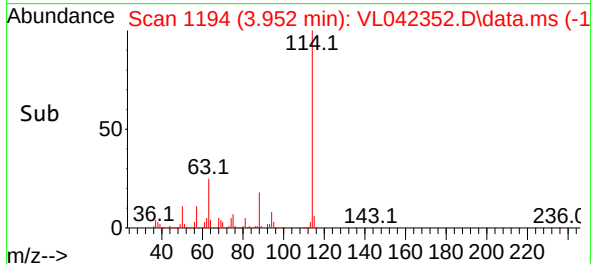
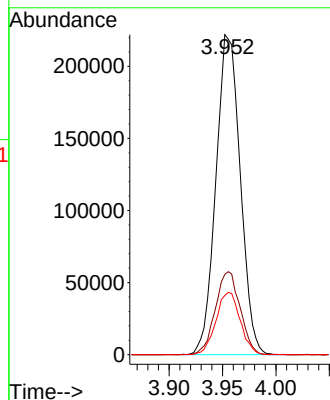
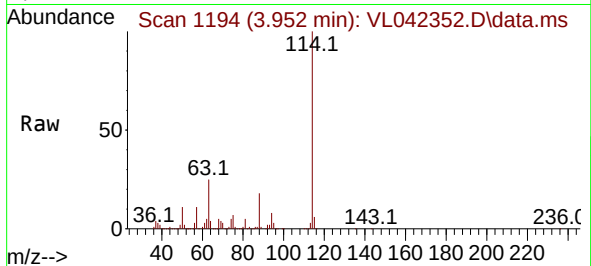




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.952 min Scan# 1194
 Delta R.T. -0.006 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19

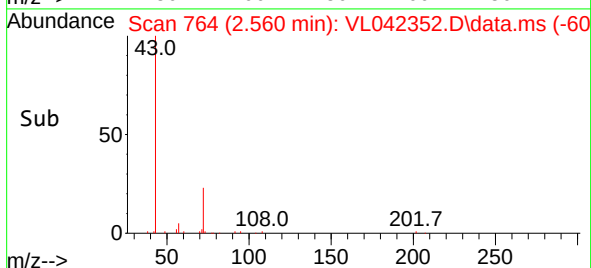
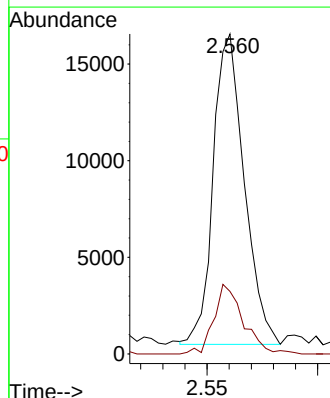
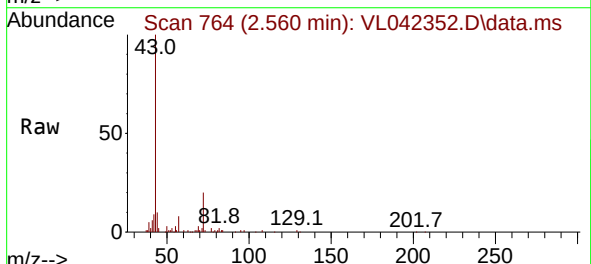
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

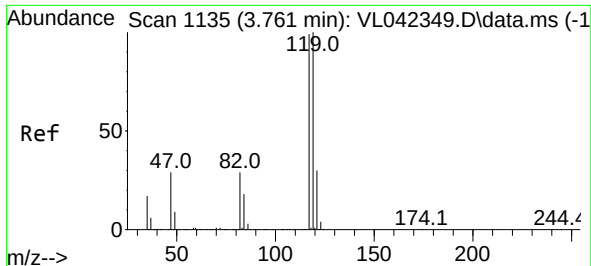
Tgt Ion:114 Resp: 353137
 Ion Ratio Lower Upper
 114 100
 63 26.3 21.8 32.6
 88 19.4 15.5 23.3



#34
 2-Butanone
 Concen: 0.560 ppbv
 RT: 2.560 min Scan# 764
 Delta R.T. 0.003 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19

Tgt Ion: 43 Resp: 15640
 Ion Ratio Lower Upper
 43 100
 72 21.3 18.2 27.2

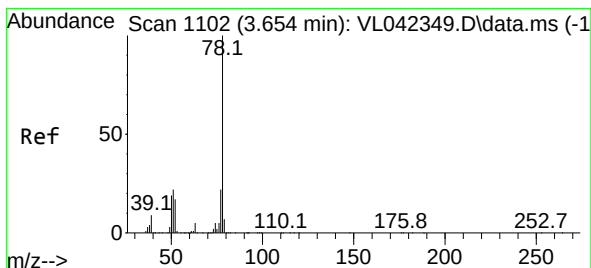
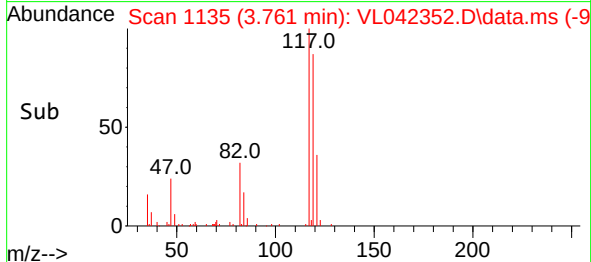
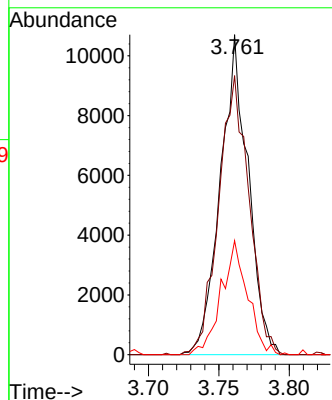
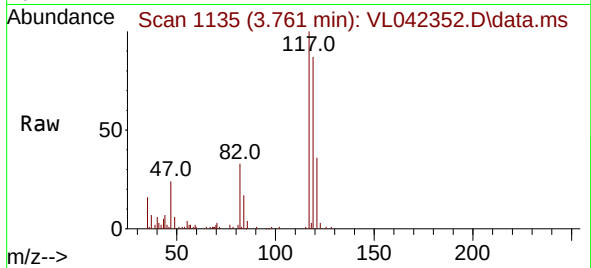




#35
Carbon Tetrachloride
Concen: 0.459 ppbv
RT: 3.761 min Scan# 1135
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

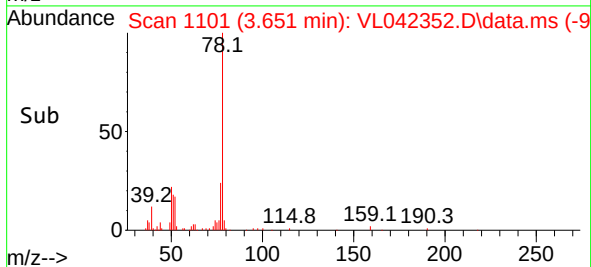
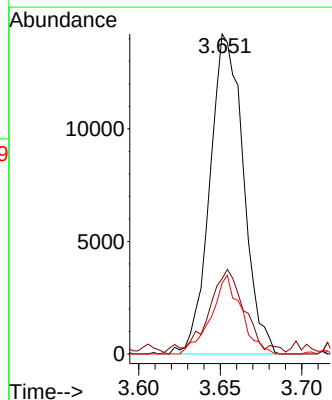
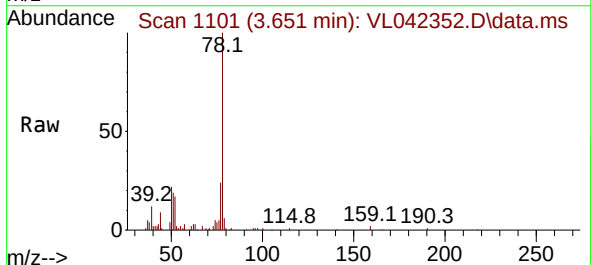
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

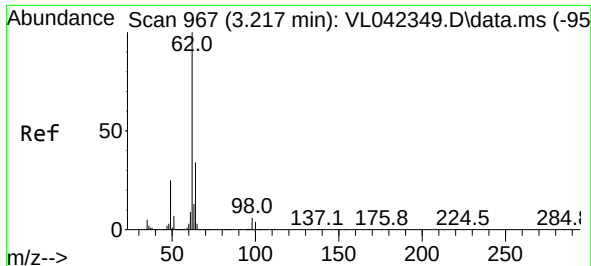
Tgt Ion:117 Resp: 14683
Ion Ratio Lower Upper
117 100
119 87.2 80.5 120.7
121 35.6 24.2 36.2



#36
Benzene
Concen: 0.531 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 78 Resp: 20233
Ion Ratio Lower Upper
78 100
77 21.7 17.4 26.0
50 22.1 15.5 23.3

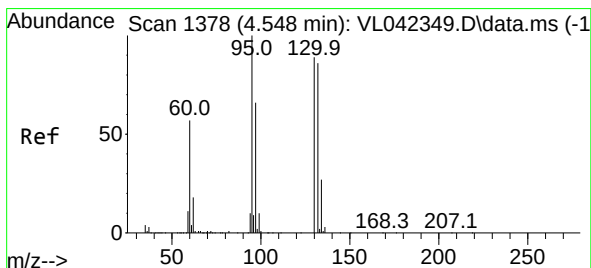
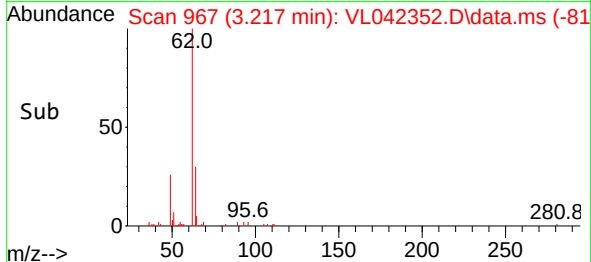
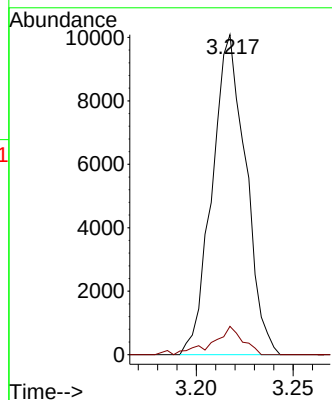
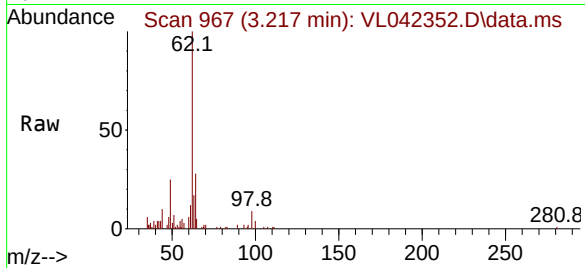




#37
 1,2-Dichloroethane
 Concen: 0.533 ppbv
 RT: 3.217 min Scan# 967
 Delta R.T. -0.000 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19

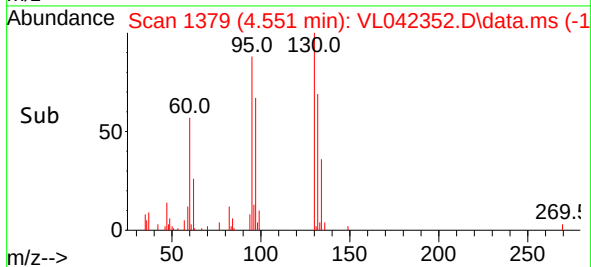
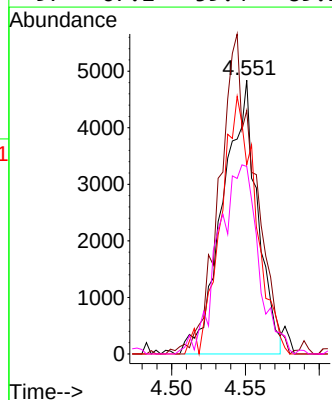
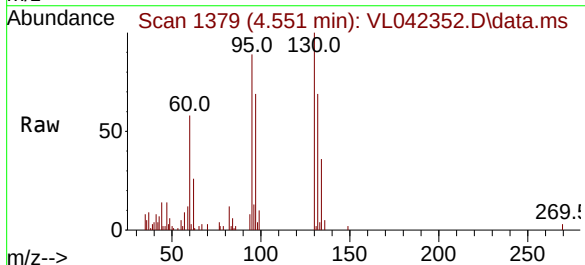
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

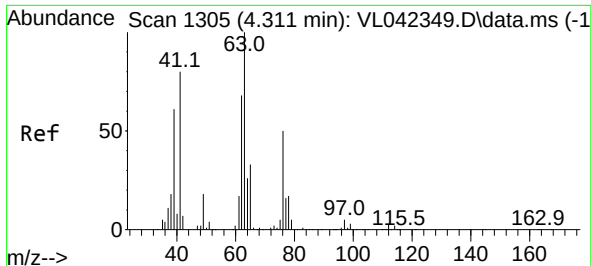
Tgt Ion: 62 Resp: 12194
 Ion Ratio Lower Upper
 62 100
 98 8.1 5.1 7.7#



#38
 Trichloroethene
 Concen: 0.468 ppbv
 RT: 4.551 min Scan# 1379
 Delta R.T. 0.003 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19

Tgt Ion:130 Resp: 7819
 Ion Ratio Lower Upper
 130 100
 95 86.2 89.8 134.6#
 132 69.1 77.7 116.5#
 97 67.2 59.4 89.2





#39

1,2-Dichloropropane

Concen: 0.225 ppbv

RT: 4.315 min Scan# 11

Delta R.T. 0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

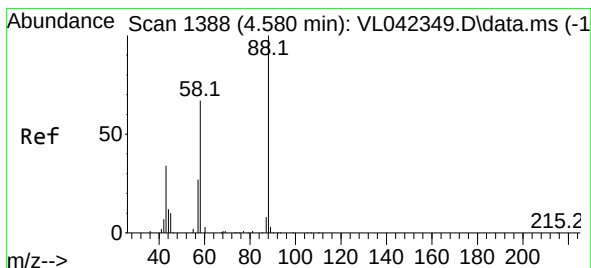
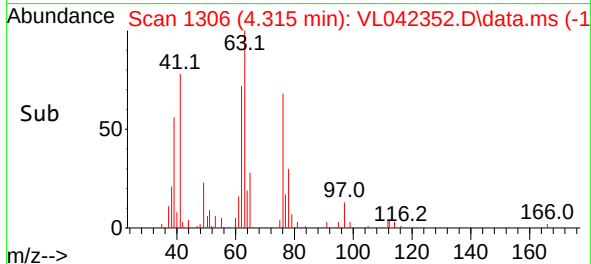
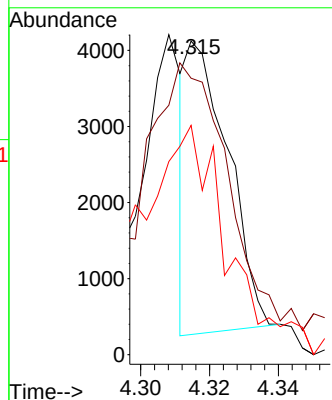
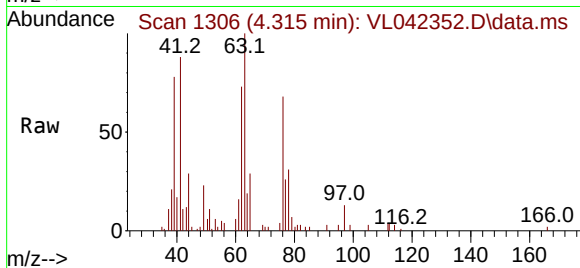
Tgt Ion: 63 Resp: 3195

Ion Ratio Lower Upper

63 100

41 90.7 64.2 96.2

62 75.2 54.3 81.5



#40

1,4-Dioxane

Concen: 0.331 ppbv

RT: 4.599 min Scan# 1394

Delta R.T. 0.019 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Tgt Ion: 88 Resp: 2550

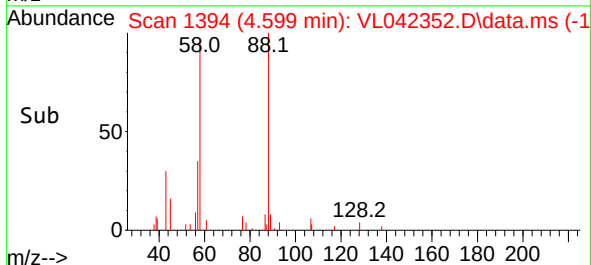
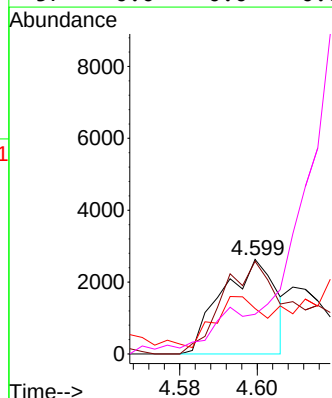
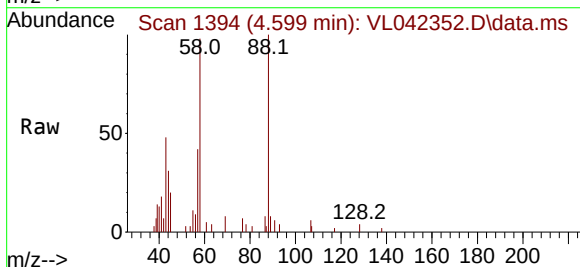
Ion Ratio Lower Upper

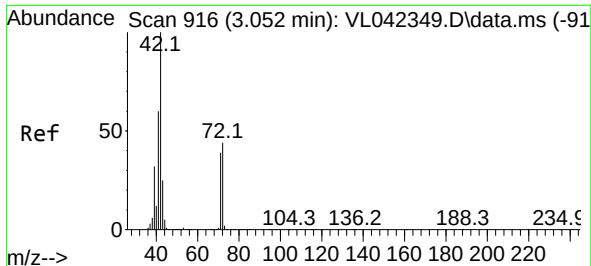
88 100

58 214.8 61.4 92.0#

43 0.0 23.2 34.8#

57 0.0 0.0 0.0





#41

Tetrahydrofuran

Concen: 0.544 ppbv

RT: 3.062 min Scan# 916

Delta R.T. 0.010 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5

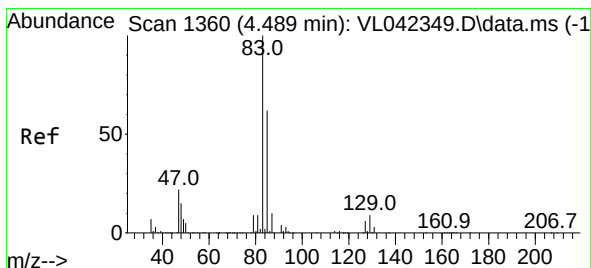
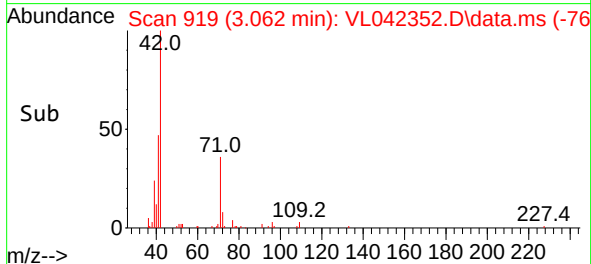
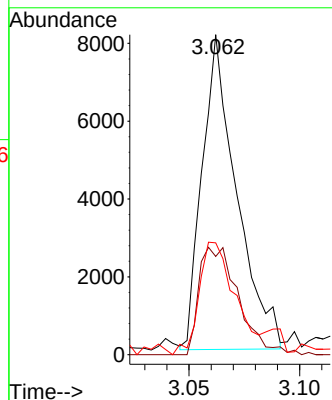
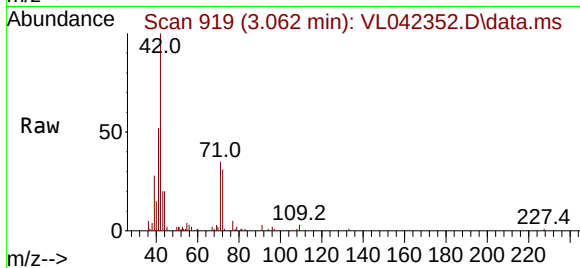
Tgt Ion: 42 Resp: 8773

Ion Ratio Lower Upper

42 100

72 39.3 32.3 48.5

71 44.9 31.4 47.2



#42

Bromodichloromethane

Concen: 0.523 ppbv

RT: 4.489 min Scan# 1360

Delta R.T. -0.000 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

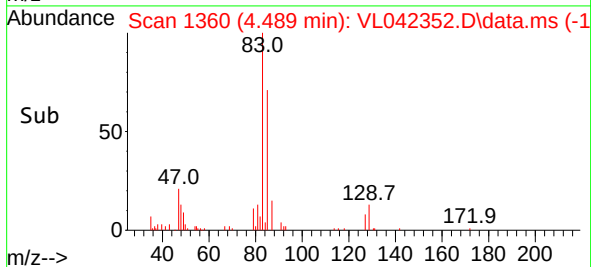
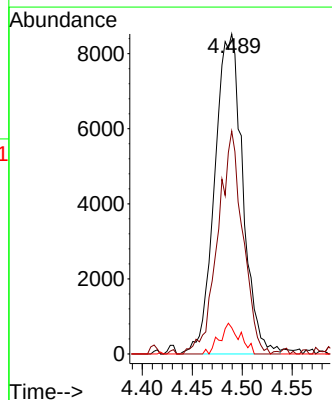
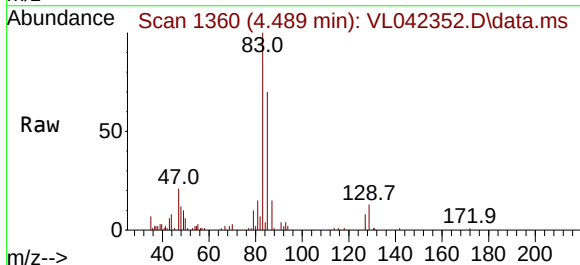
Tgt Ion: 83 Resp: 16642

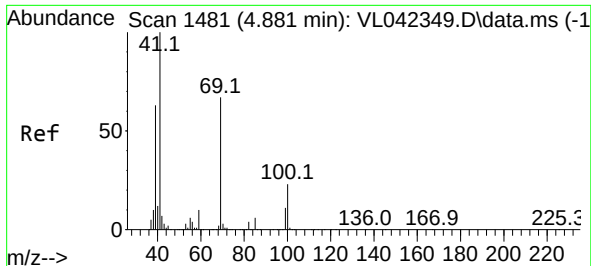
Ion Ratio Lower Upper

83 100

85 69.6 49.7 74.5

127 8.2 5.1 7.7#





#43

Methyl Methacrylate

Concen: 0.091 ppbv

RT: 4.871 min Scan# 1481

Delta R.T. -0.010 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

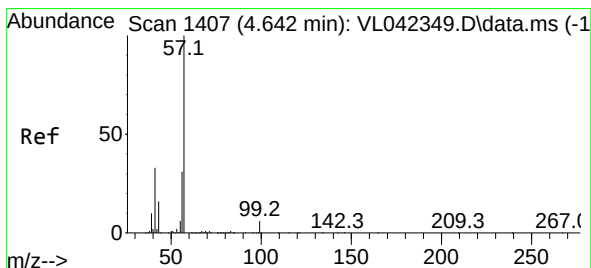
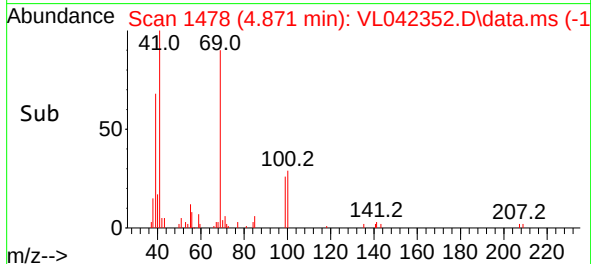
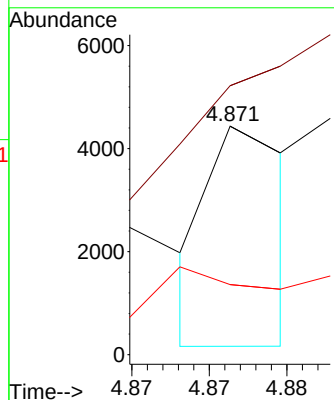
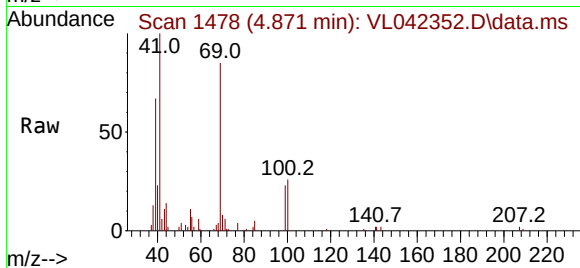
Tgt Ion: 69 Resp: 1556

Ion Ratio Lower Upper

69 100

41 0.0 118.6 177.8#

100 0.0 28.2 42.2#



#44

2,2,4-Trimethylpentane

Concen: 0.519 ppbv

RT: 4.635 min Scan# 1405

Delta R.T. -0.006 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

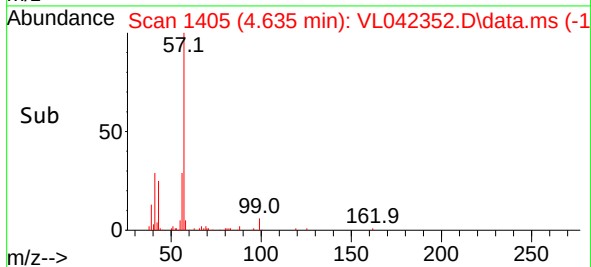
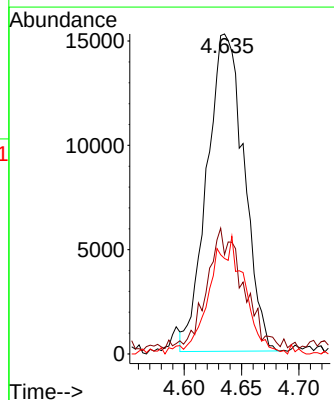
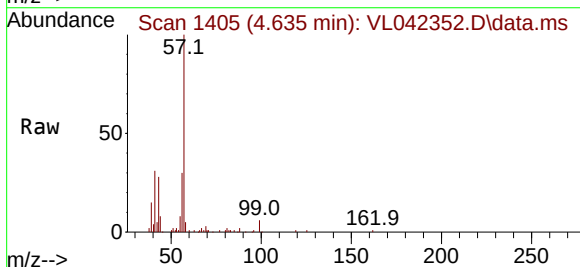
Tgt Ion: 57 Resp: 34170

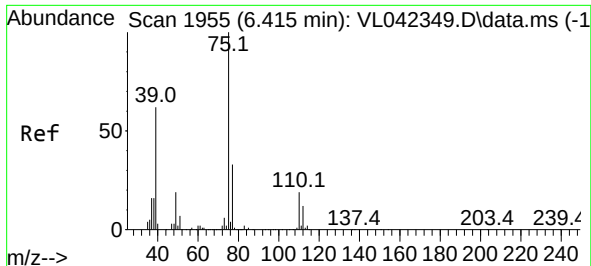
Ion Ratio Lower Upper

57 100

41 39.1 27.2 40.8

56 37.1 25.7 38.5





#45

t-1,3-Dichloropropene

Concen: 0.076 ppbv

RT: 6.393 min Scan# 1955

Delta R.T. -0.023 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA_L

ClientSampleId :

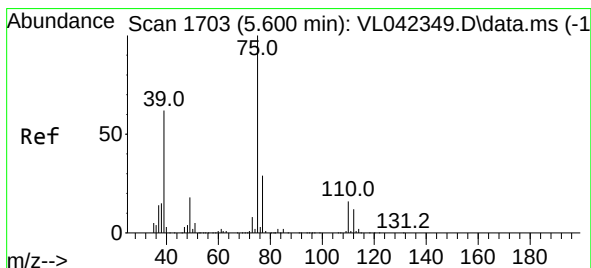
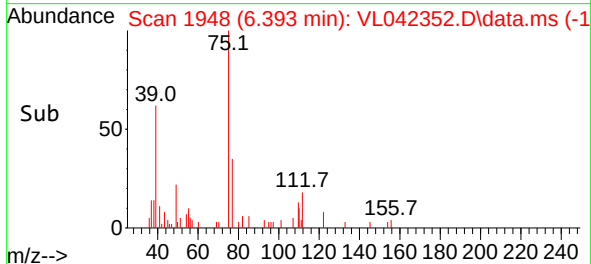
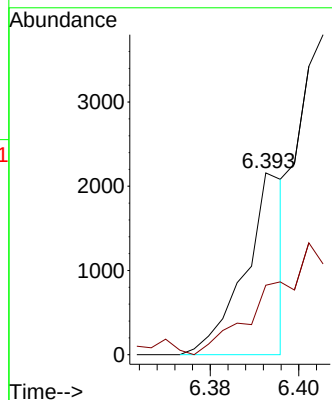
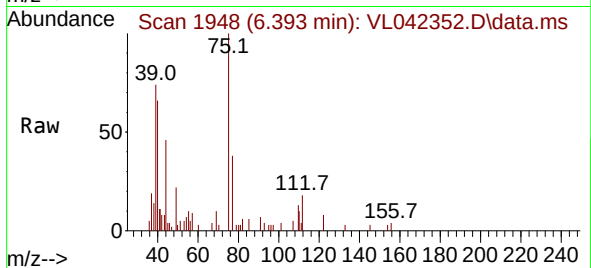
VSTDIC0.5

Tgt Ion: 75 Resp: 1332

Ion Ratio Lower Upper

75 100

77 38.2 27.0 40.6



#46

cis-1,3-Dichloropropene

Concen: 0.356 ppbv

RT: 5.596 min Scan# 1702

Delta R.T. -0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

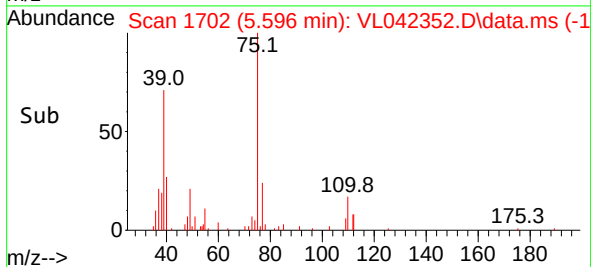
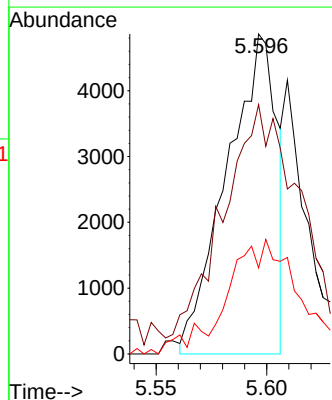
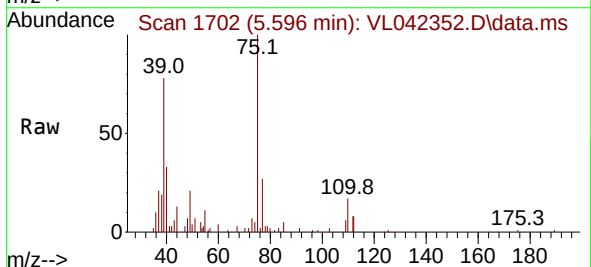
Tgt Ion: 75 Resp: 7634

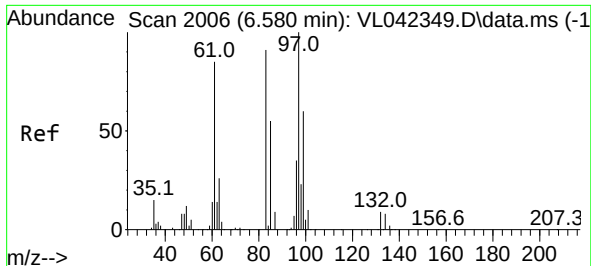
Ion Ratio Lower Upper

75 100

39 67.9 50.0 75.0

77 21.6 23.0 34.6#

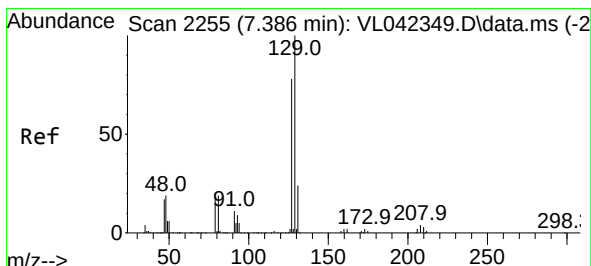
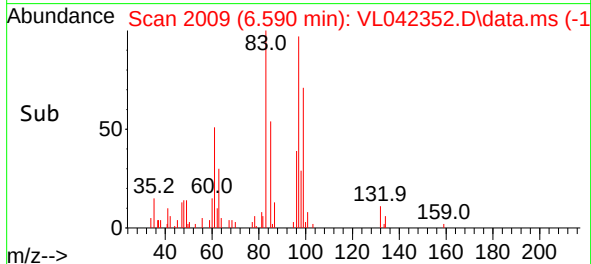
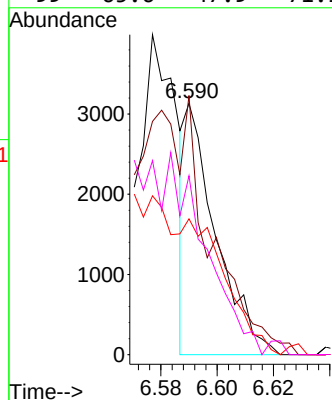
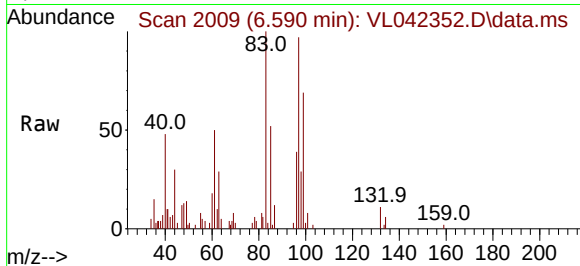




#47
1,1,2-Trichloroethane
Concen: 0.164 ppbv
RT: 6.590 min Scan# 2009
Delta R.T. 0.010 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

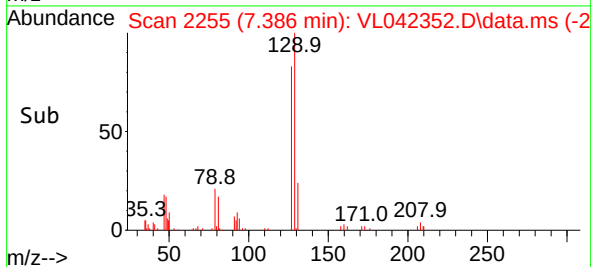
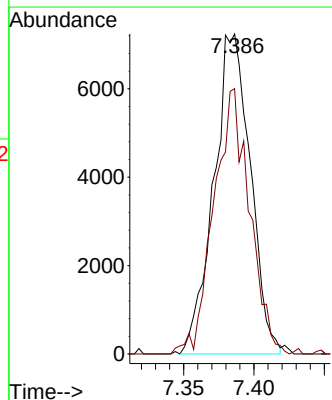
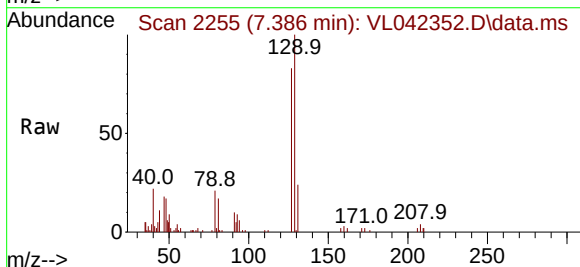
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

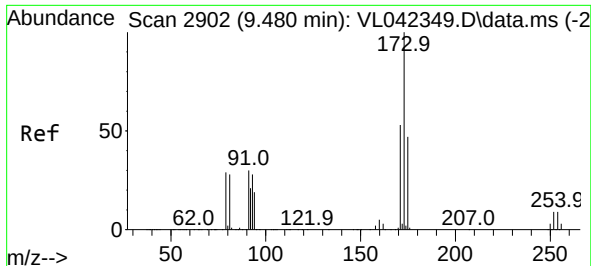
Tgt Ion: 97	Resp: 2374
Ion Ratio	Lower Upper
97 100	
83 98.5	72.8 109.2
85 54.0	44.2 66.4
99 65.6	47.9 71.9



#48
Dibromochloromethane
Concen: 0.514 ppbv
RT: 7.386 min Scan# 2255
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:129	Resp:	13122	
Ion	Ratio	Lower	Upper
129	100		
127	80.9	39.1	117.3





#49

Bromoform

Concen: 0.492 ppbv

RT: 9.477 min Scan# 2902

Delta R.T. -0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

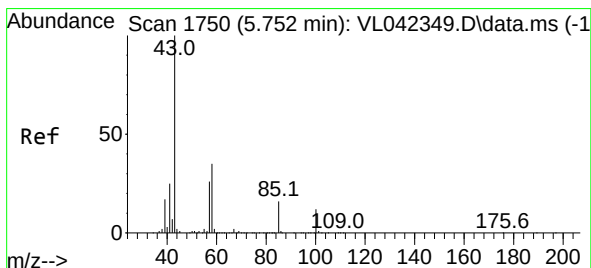
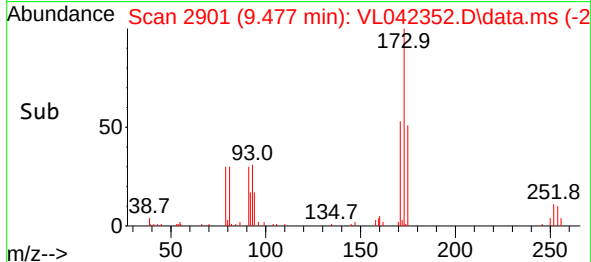
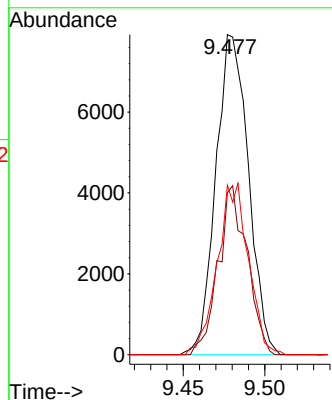
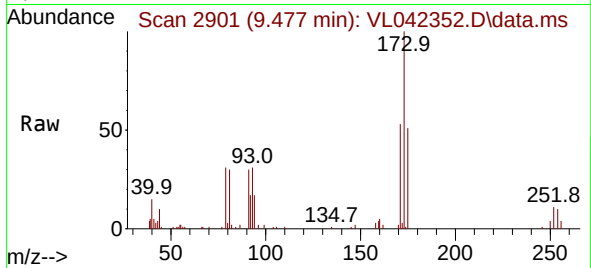
Tgt Ion:173 Resp: 10988

Ion Ratio Lower Upper

173 100

175 46.8 38.2 57.2

171 51.2 40.9 61.3



#50

4-Methyl-2-Pentanone

Concen: 0.309 ppbv

RT: 5.761 min Scan# 1753

Delta R.T. 0.010 min

Lab File: VL042352.D

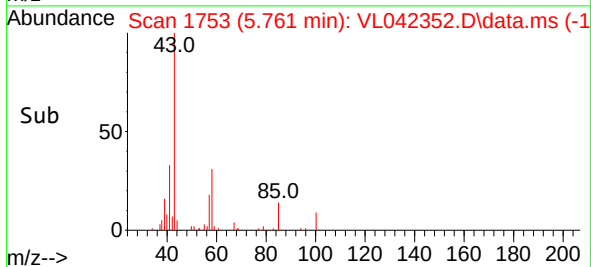
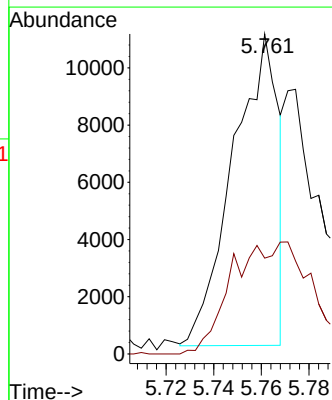
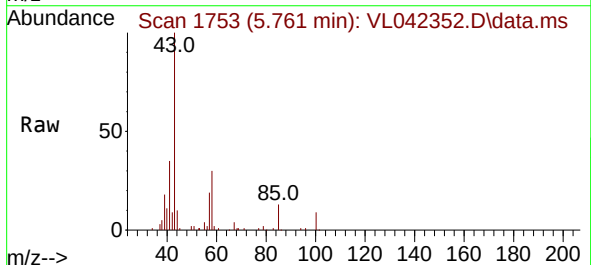
Acq: 17 Apr 2025 11:19

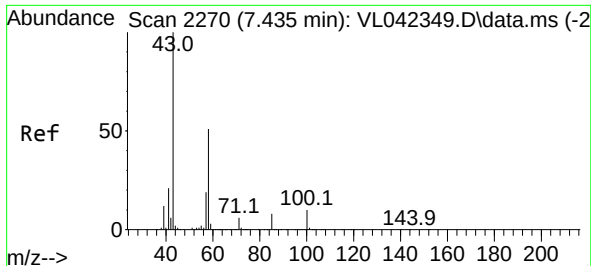
Tgt Ion: 43 Resp: 14380

Ion Ratio Lower Upper

43 100

58 0.0 28.6 43.0#

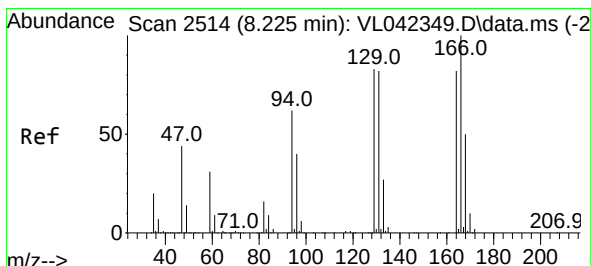
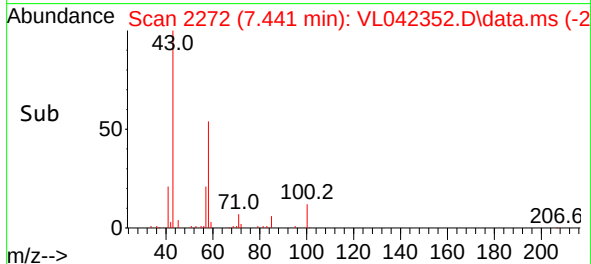
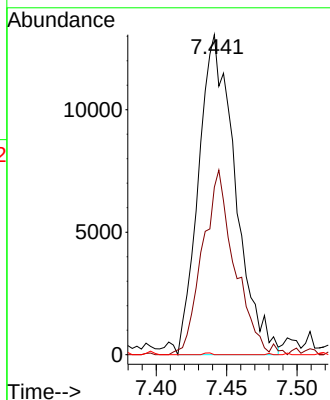
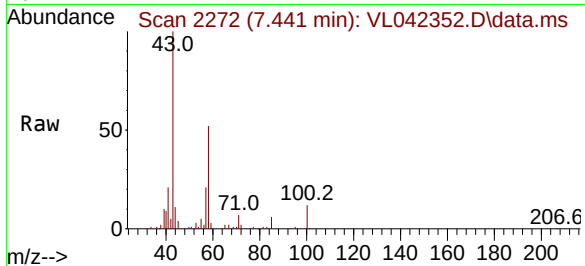




#51
2-Hexanone
Concen: 0.564 ppbv
RT: 7.441 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

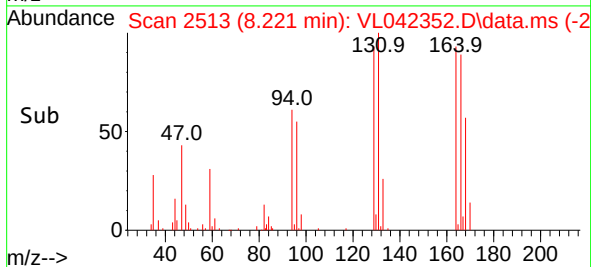
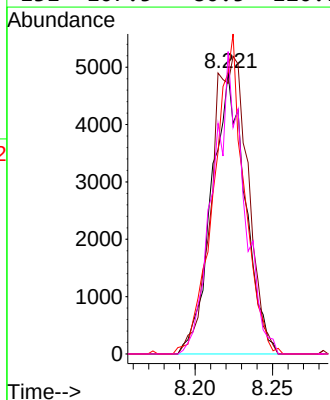
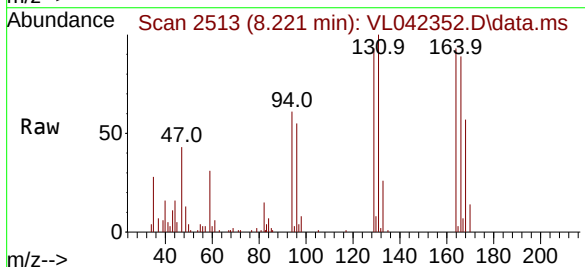
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

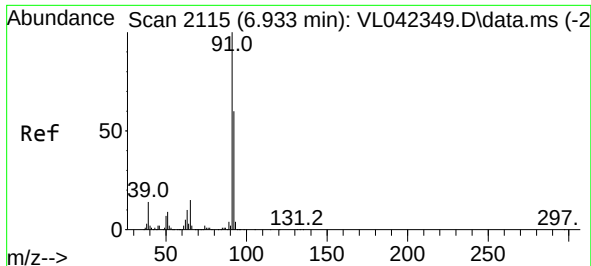
Tgt Ion: 43 Resp: 23684
Ion Ratio Lower Upper
43 100
58 51.7 40.2 60.4
98 0.1 0.1 0.1



#52
Tetrachloroethene
Concen: 0.503 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 164 Resp: 7412
Ion Ratio Lower Upper
164 100
166 96.1 98.2 147.2#
129 97.8 81.8 122.8
131 107.5 80.5 120.7

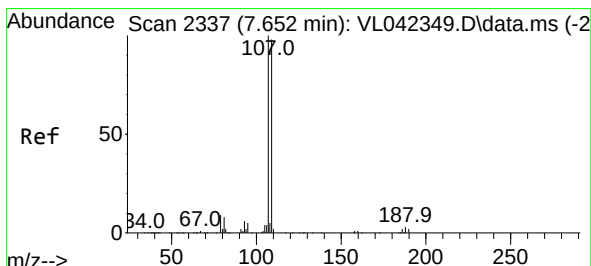
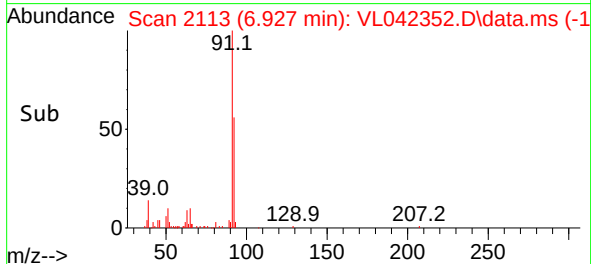
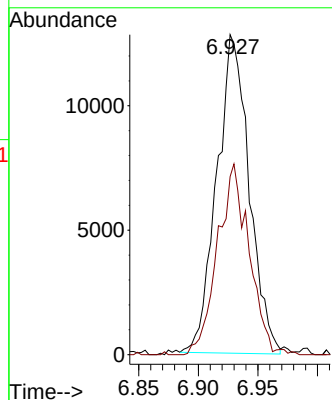
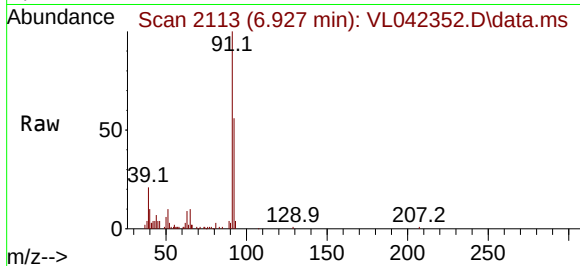




#53
Toluene
Concen: 0.529 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. -0.006 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

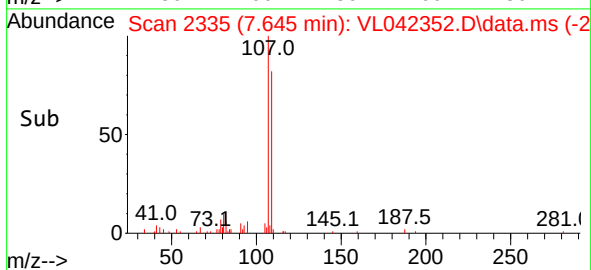
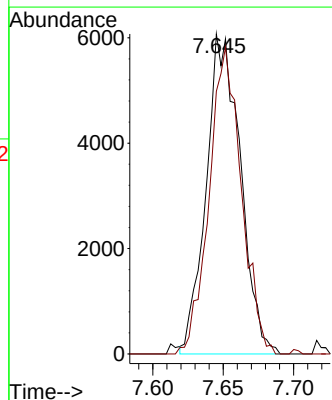
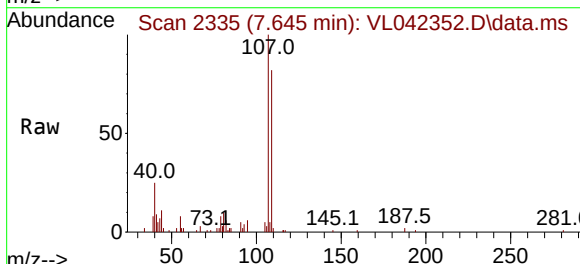
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

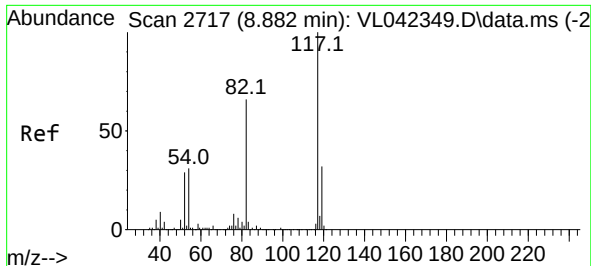
Tgt Ion: 91 Resp: 24200
Ion Ratio Lower Upper
91 100
92 58.4 48.2 72.4



#54
1,2-Dibromoethane
Concen: 0.499 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. -0.006 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 107 Resp: 10282
Ion Ratio Lower Upper
107 100
109 82.1 78.2 117.4

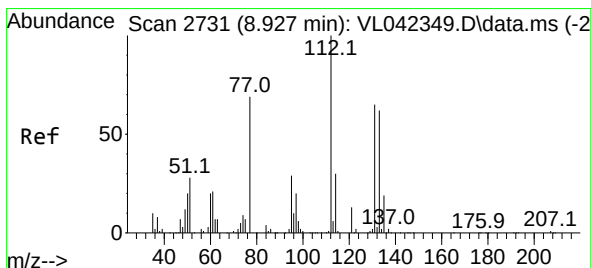
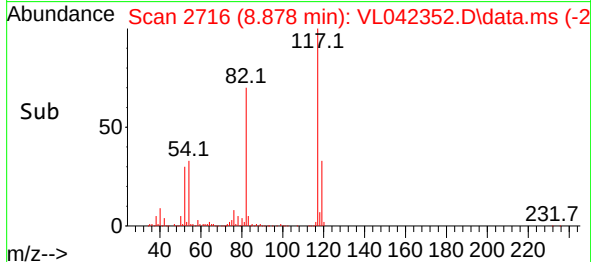
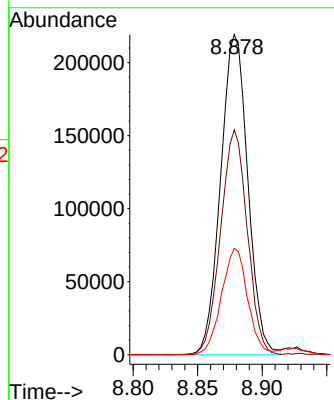
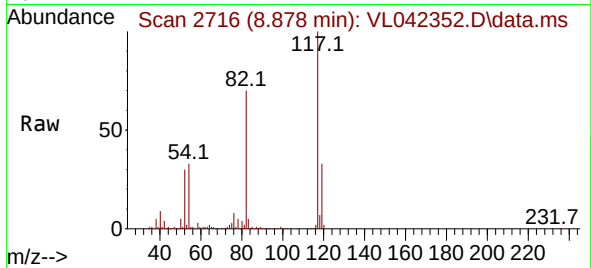




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2717
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

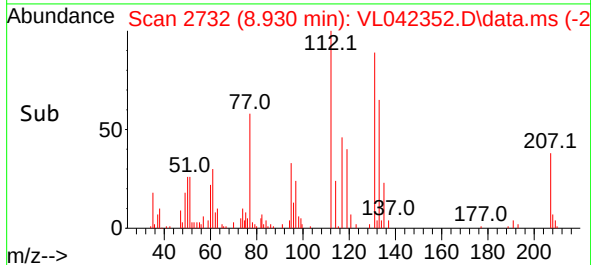
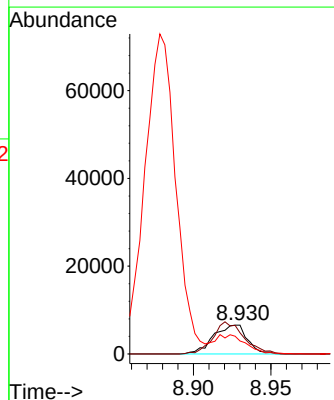
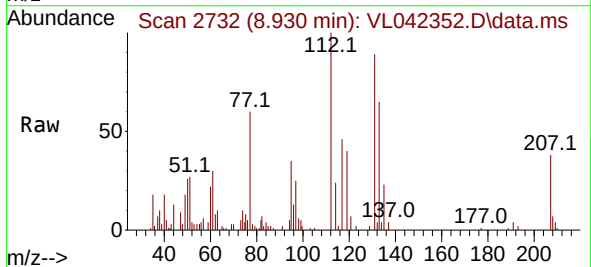
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

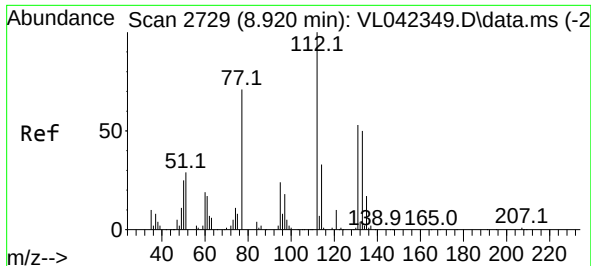
Tgt Ion:117 Resp: 321644
Ion Ratio Lower Upper
117 100
82 69.0 57.8 86.6
119 33.8 25.2 37.8



#56
1,1,1,2-Tetrachloroethane
Concen: 0.513 ppbv
RT: 8.930 min Scan# 2732
Delta R.T. 0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:131 Resp: 9987
Ion Ratio Lower Upper
131 100
133 102.0 78.3 117.5
119 1087.9 48.7 73.1#

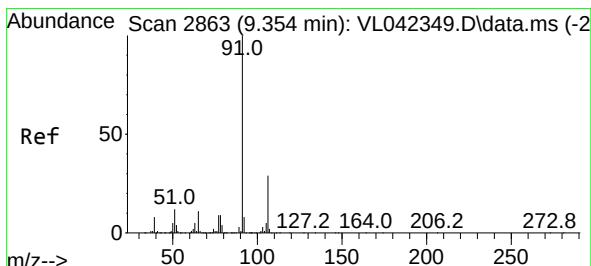
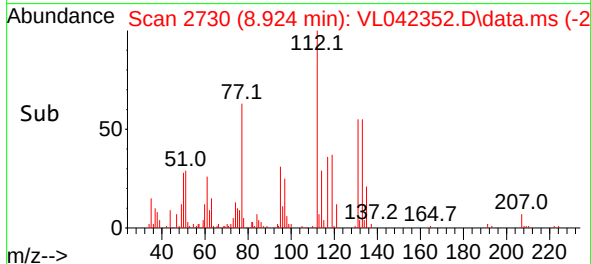
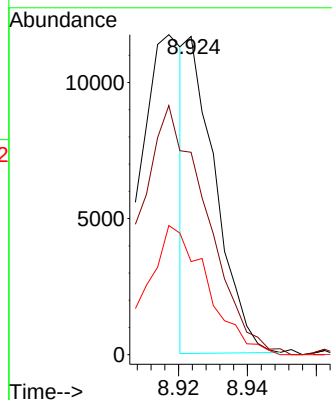
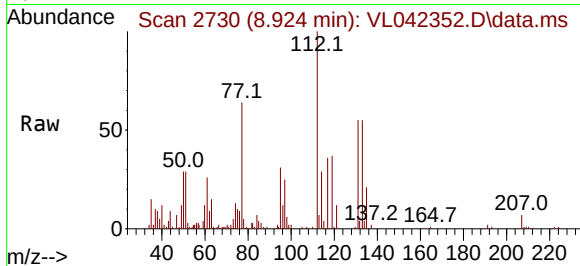




#57
Chlorobenzene
Concen: 0.206 ppbv
RT: 8.924 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

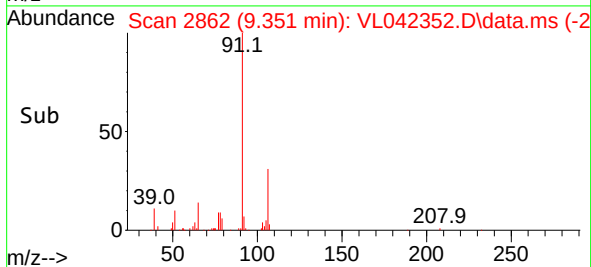
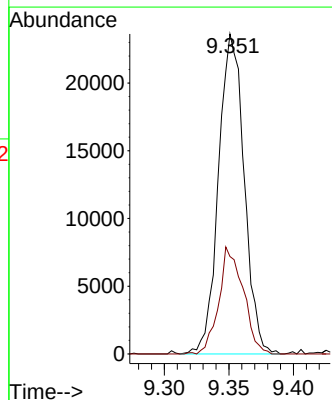
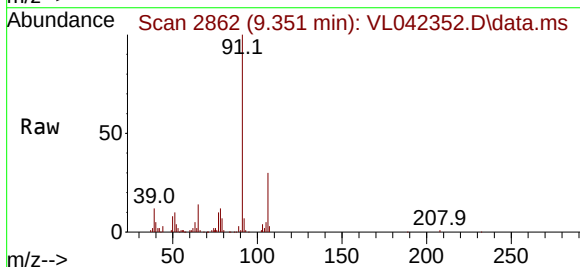
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

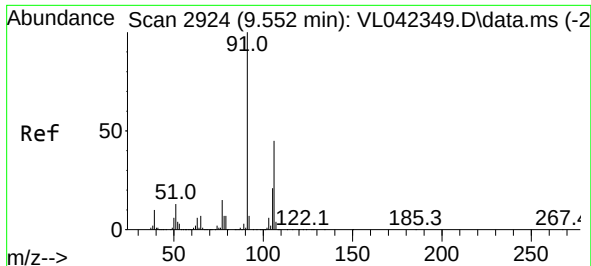
Tgt Ion:	112	Resp:	6884
Ion Ratio	Lower	Upper	
112	100		
77	62.1	57.8	86.6
114	29.5	29.3	35.9



#58
Ethyl Benzene
Concen: 0.512 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:	91	Resp:	32624
Ion Ratio	Lower	Upper	
91	100		
106	30.5	23.0	34.4





#59

m/p-Xylene

Concen: 0.439 ppbv

RT: 9.548 min Scan# 2924

Delta R.T. -0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA_L

ClientSampleId :

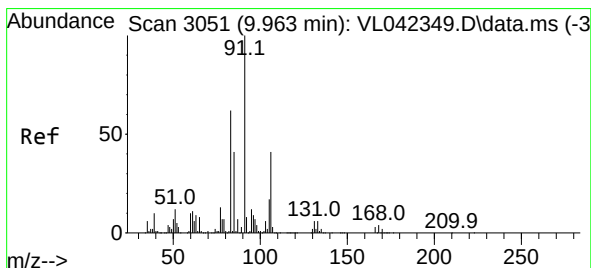
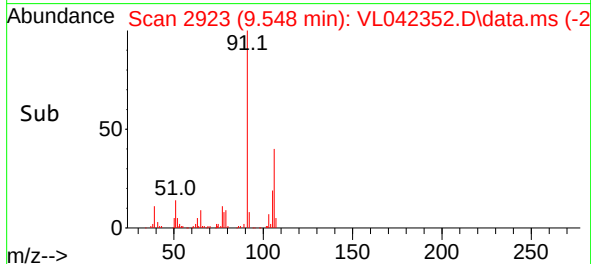
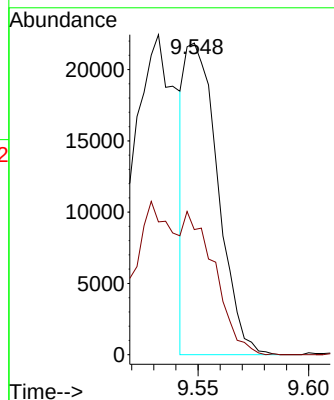
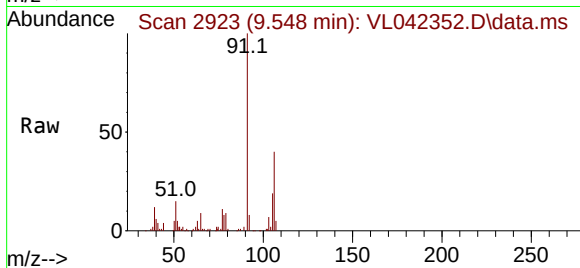
VSTDIC0.5

Tgt Ion: 91 Resp: 22598

Ion Ratio Lower Upper

91 100

106 0.0 35.4 53.2#



#60

o-Xylene

Concen: 0.541 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. -0.000 min

Lab File: VL042352.D

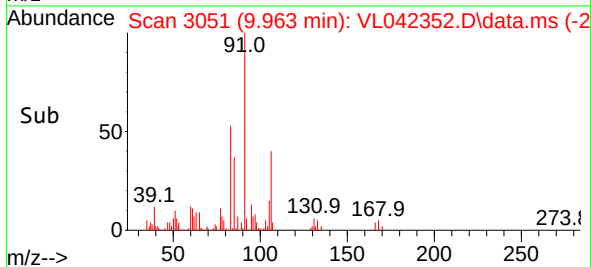
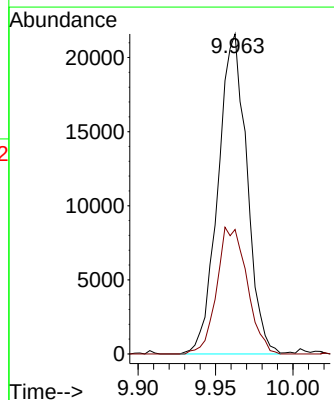
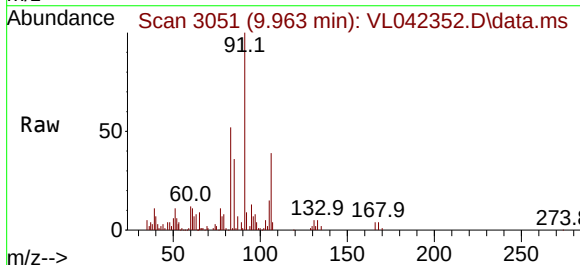
Acq: 17 Apr 2025 11:19

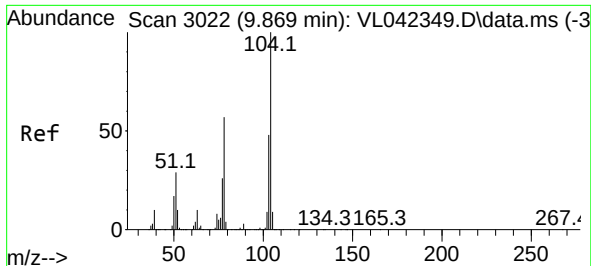
Tgt Ion: 91 Resp: 27983

Ion Ratio Lower Upper

91 100

106 41.6 21.1 63.4

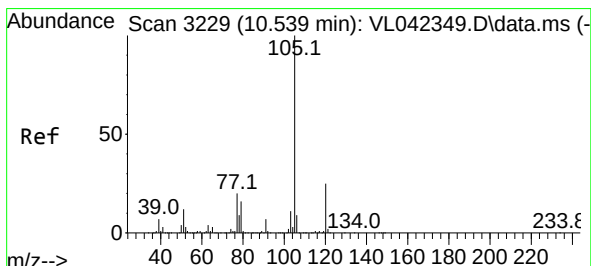
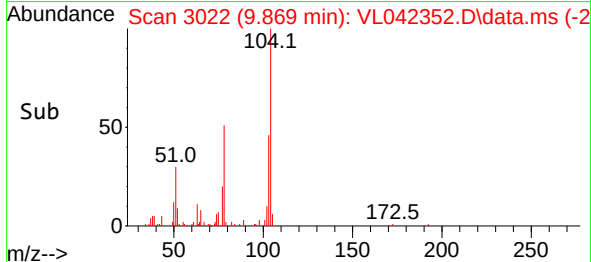
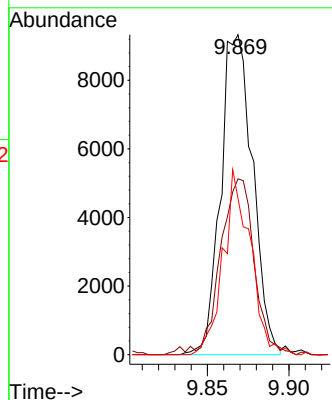
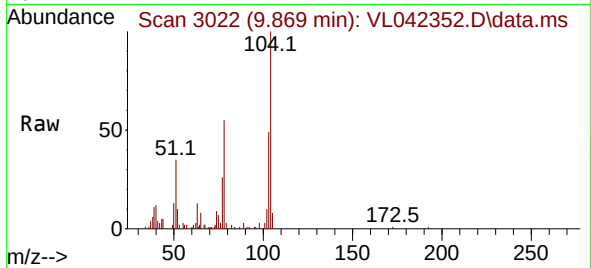




#61
Styrene
Concen: 0.516 ppbv
RT: 9.869 min Scan# 3022
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

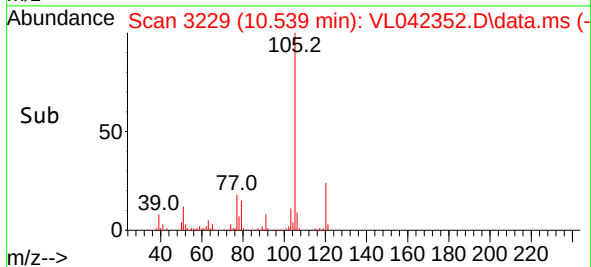
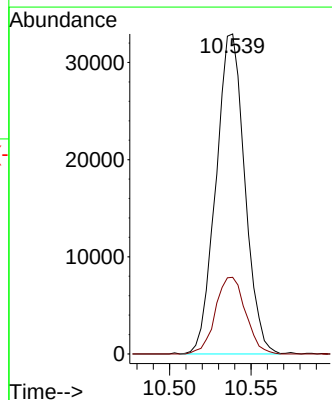
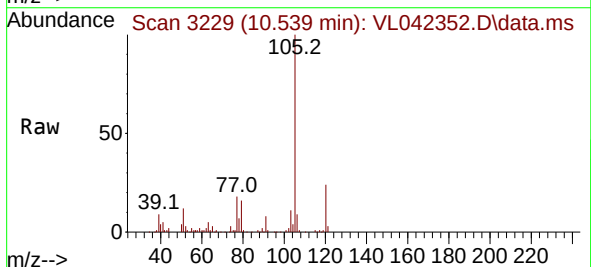
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

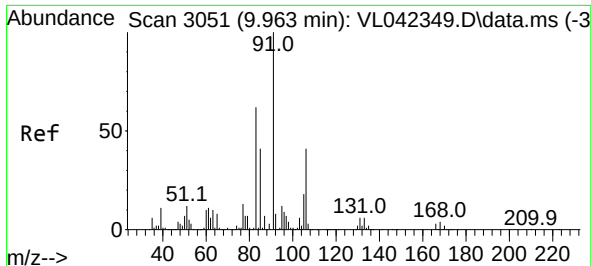
Tgt Ion:104 Resp: 12736
Ion Ratio Lower Upper
104 100
78 58.6 44.6 66.8
103 49.2 37.4 56.0



#62
Isopropylbenzene
Concen: 0.533 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:105 Resp: 40481
Ion Ratio Lower Upper
105 100
120 24.9 19.8 29.8





#63

1,1,2,2-Tetrachloroethane

Concen: 0.474 ppbv

RT: 9.959 min Scan# 3050

Delta R.T. -0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

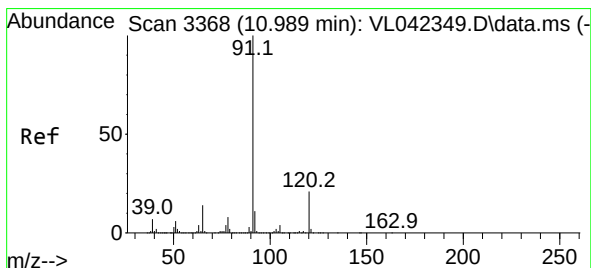
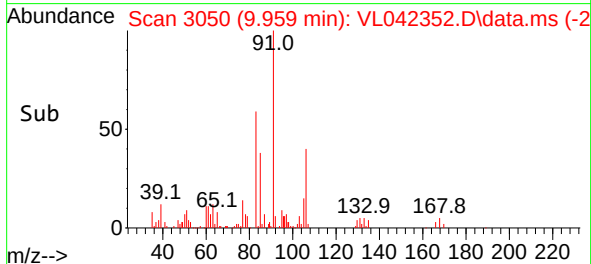
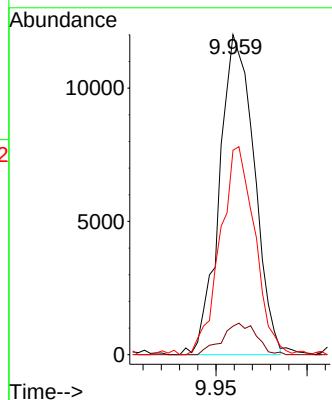
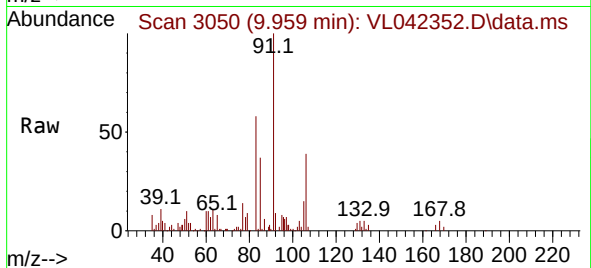
Tgt Ion: 83 Resp: 15920

Ion Ratio Lower Upper

83 100

131 9.8 4.5 13.7

85 65.6 32.4 97.0



#64

n-propylbenzene

Concen: 0.544 ppbv

RT: 10.985 min Scan# 3367

Delta R.T. -0.003 min

Lab File: VL042352.D

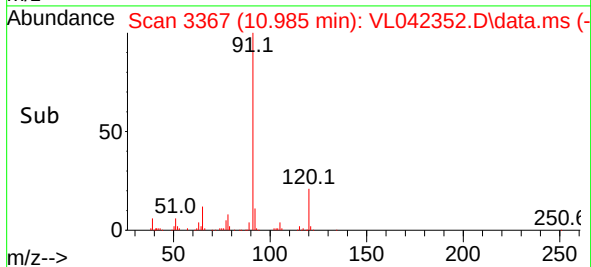
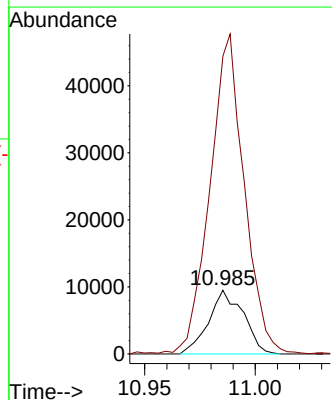
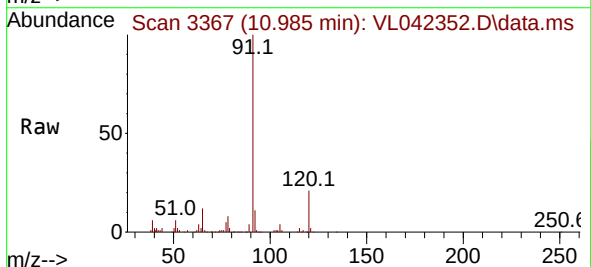
Acq: 17 Apr 2025 11:19

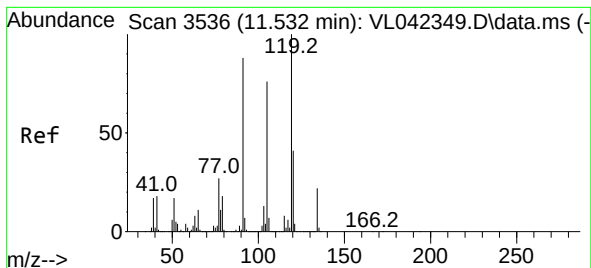
Tgt Ion: 120 Resp: 10369

Ion Ratio Lower Upper

120 100

91 499.6 392.4 588.6





#65

tert-Butylbenzene

Concen: 0.535 ppbv

RT: 11.529 min Scan# 3535

Delta R.T. -0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

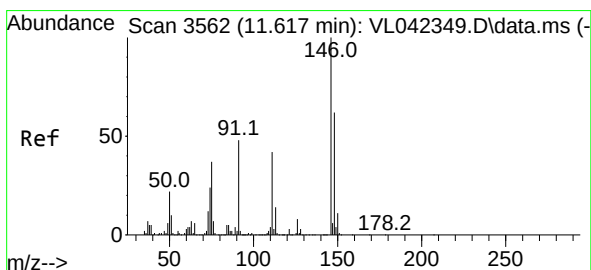
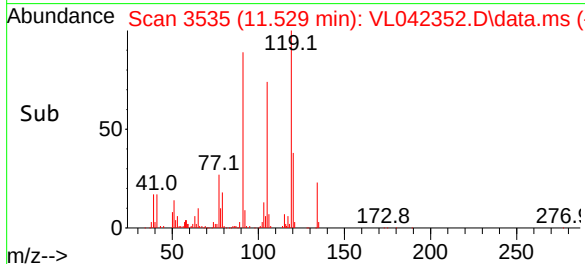
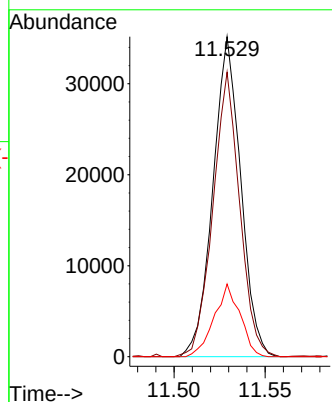
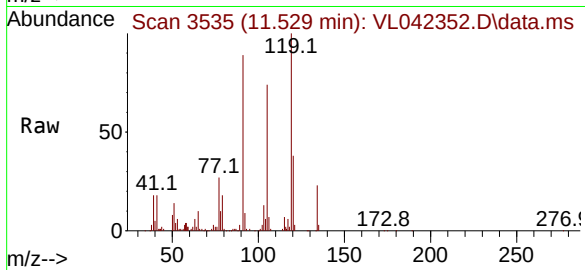
Tgt Ion:119 Resp: 37294

Ion Ratio Lower Upper

119 100

91 85.8 74.6 111.8

134 21.1 18.8 28.2



#66

Benzyl Chloride

Concen: 0.506 ppbv

RT: 11.613 min Scan# 3561

Delta R.T. -0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

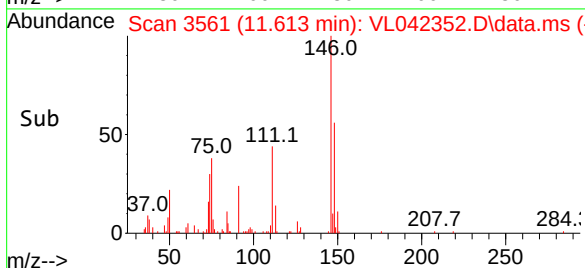
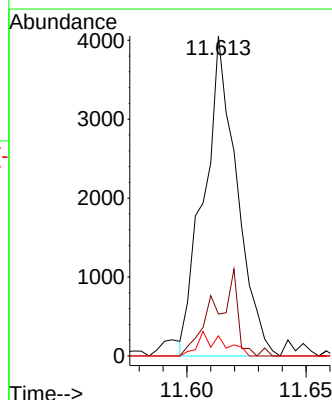
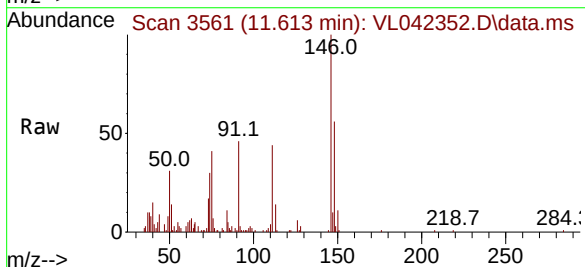
Tgt Ion: 91 Resp: 3878

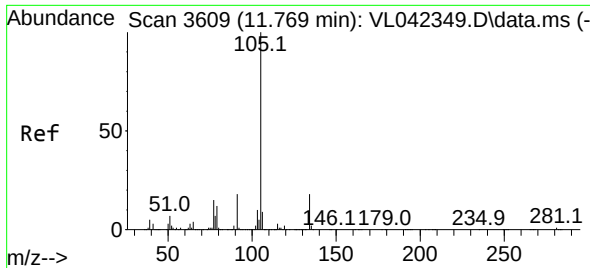
Ion Ratio Lower Upper

91 100

126 19.8 11.8 17.6#

128 5.8 4.5 6.7

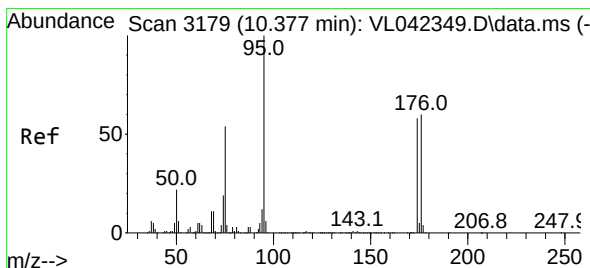
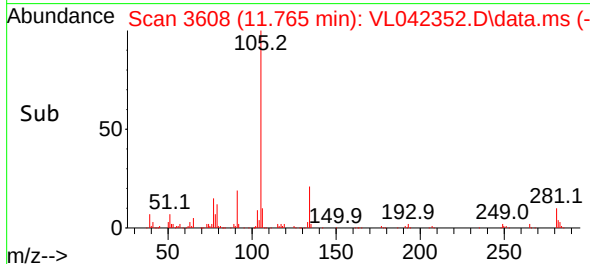
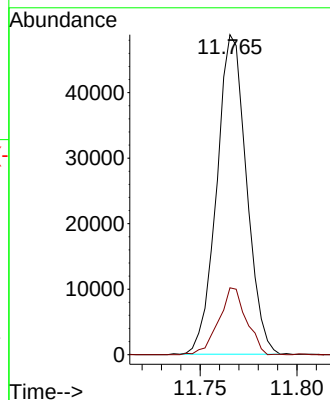
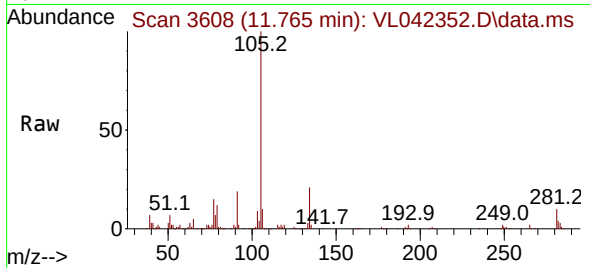




#67
 sec-Butylbenzene
 Concen: 0.537 ppbv
 RT: 11.765 min Scan# 3108
 Delta R.T. -0.003 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19

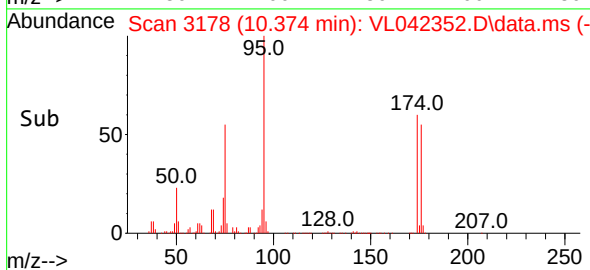
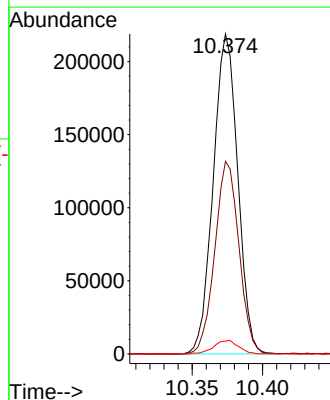
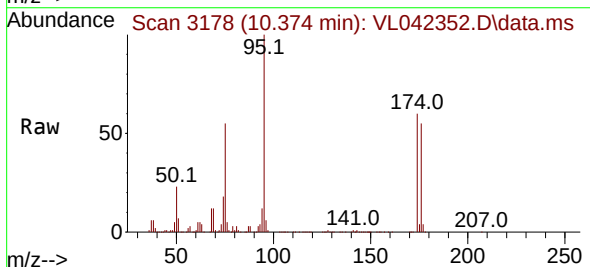
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

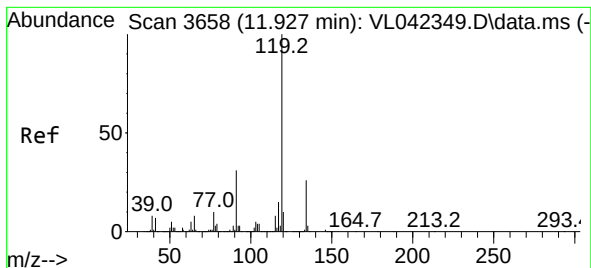
Tgt Ion:105 Resp: 52139
 Ion Ratio Lower Upper
 105 100
 134 19.5 14.6 21.8



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.032 ppbv
 RT: 10.374 min Scan# 3178
 Delta R.T. -0.003 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19

Tgt Ion: 95 Resp: 265161
 Ion Ratio Lower Upper
 95 100
 174 59.4 48.5 72.7
 175 4.3 3.7 5.5





#69

p-Isopropyltoluene

Concen: 0.541 ppbv

RT: 11.924 min Scan# 3657

Delta R.T. -0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.5

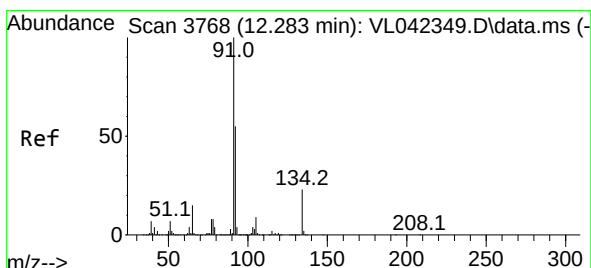
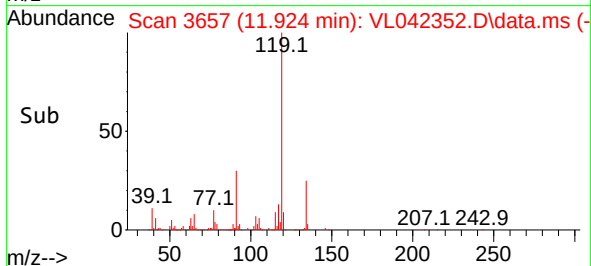
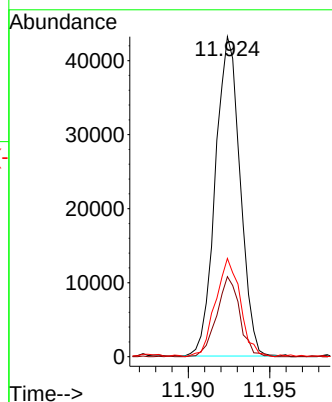
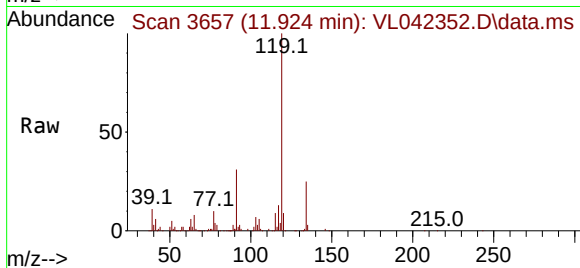
Tgt Ion:119 Resp: 45574

Ion Ratio Lower Upper

119 100

134 23.3 20.0 30.0

91 31.4 24.4 36.6



#70

n-Butylbenzene

Concen: 0.547 ppbv

RT: 12.280 min Scan# 3767

Delta R.T. -0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

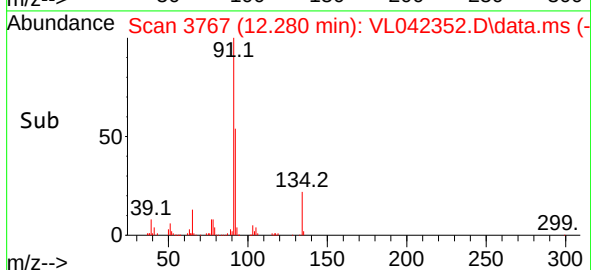
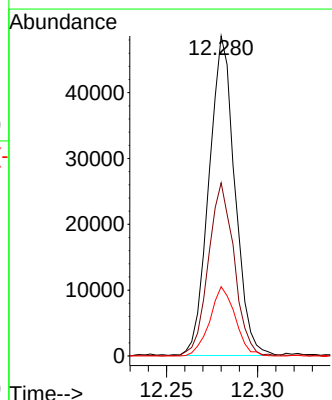
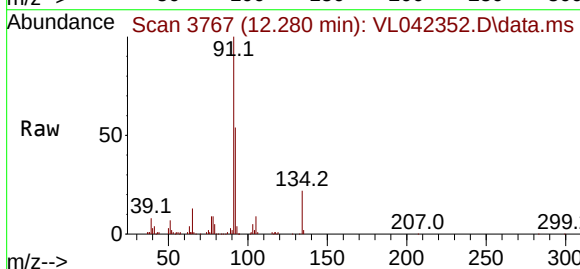
Tgt Ion: 91 Resp: 48004

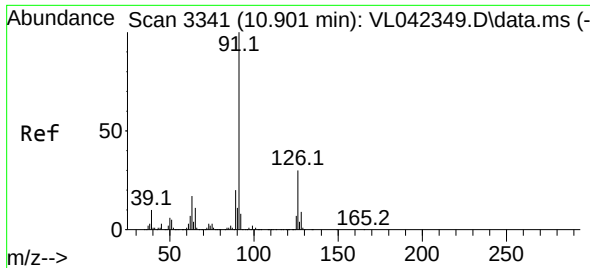
Ion Ratio Lower Upper

91 100

92 54.7 44.2 66.4

134 21.4 18.2 27.4

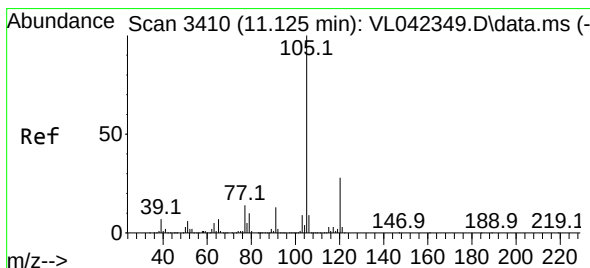
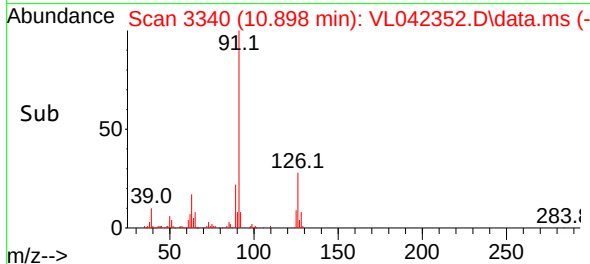
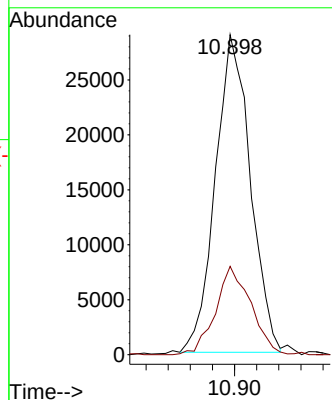
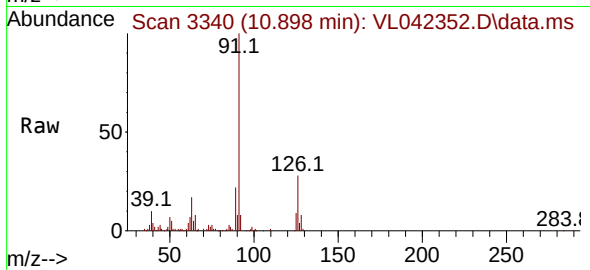




#71
2-Chlorotoluene
Concen: 0.533 ppbv
RT: 10.898 min Scan# 31709
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

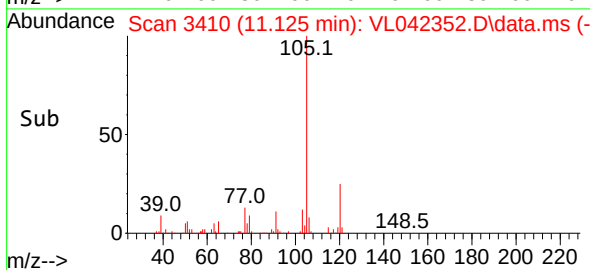
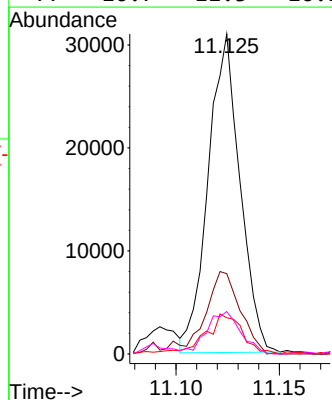
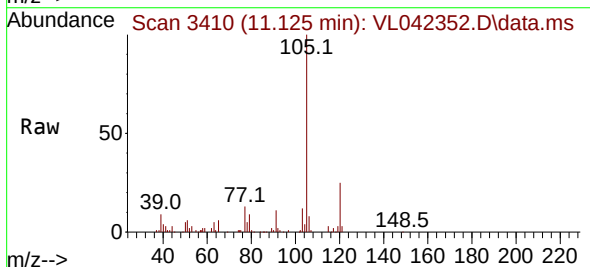
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

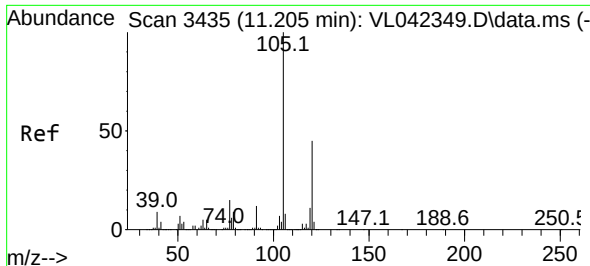
Tgt Ion: 91 Resp: 31709
Ion Ratio Lower Upper
91 100
126 28.3 11.4 45.4



#72
4-Ethyltoluene
Concen: 0.523 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:105 Resp: 33048
Ion Ratio Lower Upper
105 100
120 30.5 23.2 34.8
91 15.7 10.4 15.6#
77 16.7 11.3 16.9

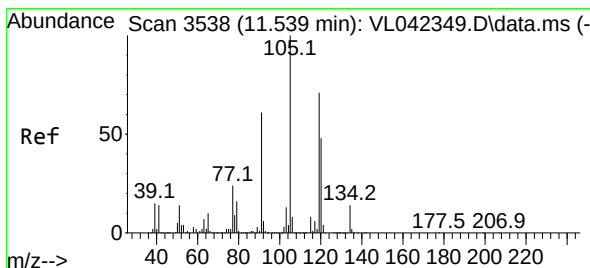
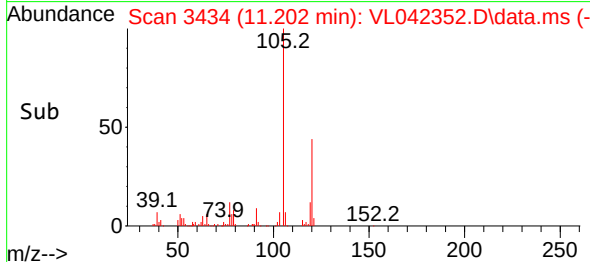
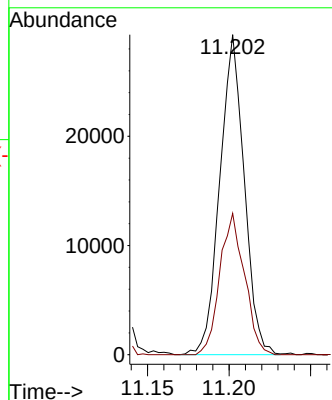
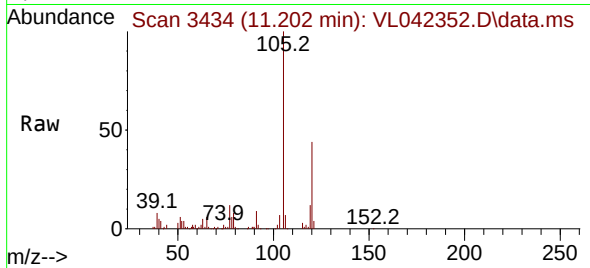




#73
1,3,5-Trimethylbenzene
Concen: 0.546 ppbv
RT: 11.202 min Scan# 3435
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

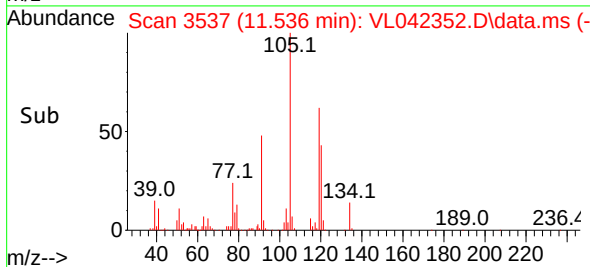
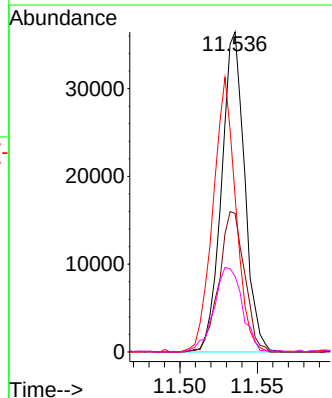
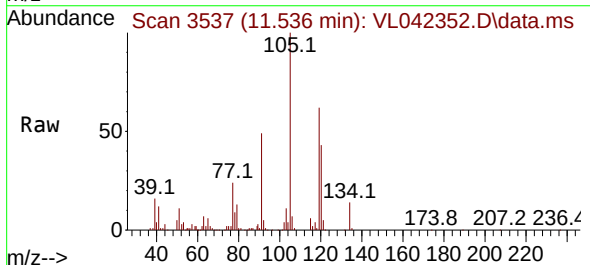
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

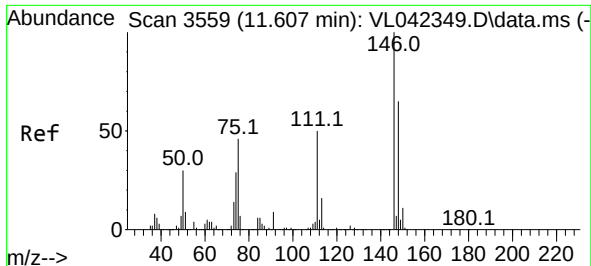
Tgt Ion:105 Resp: 30464
Ion Ratio Lower Upper
105 100
120 44.1 35.6 53.4



#74
1,2,4-Trimethylbenzene
Concen: 0.579 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:105 Resp: 37765
Ion Ratio Lower Upper
105 100
120 43.3 38.1 57.1
91 48.7 48.8 73.2#
77 23.7 19.0 28.4

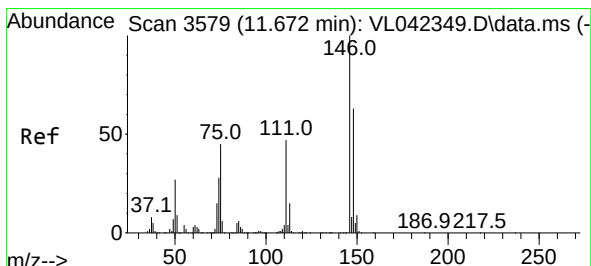
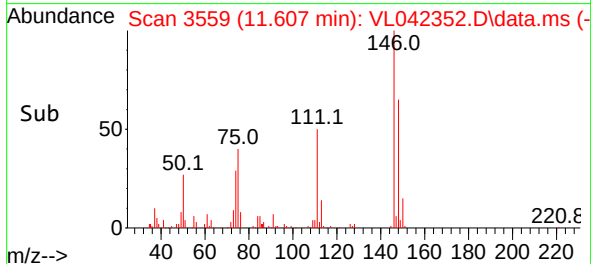
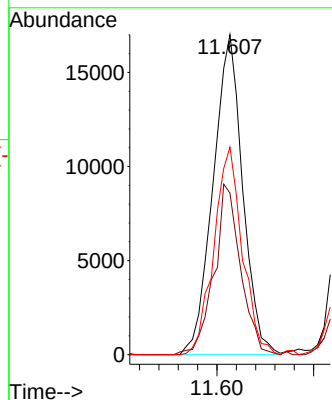
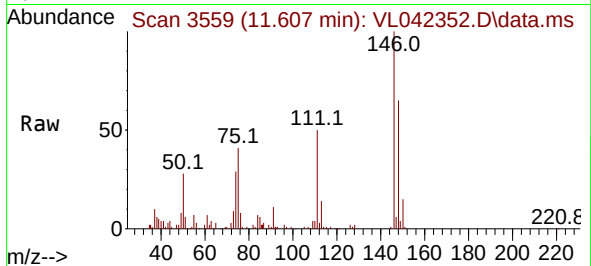




#75
1,3-Dichlorobenzene
Concen: 0.531 ppbv
RT: 11.607 min Scan# 3559
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

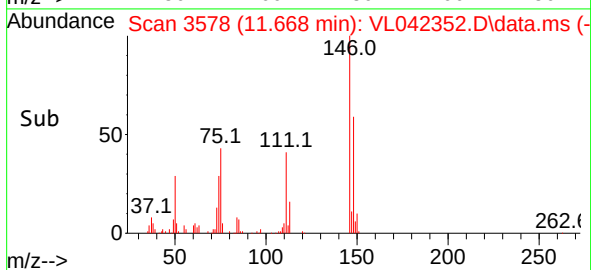
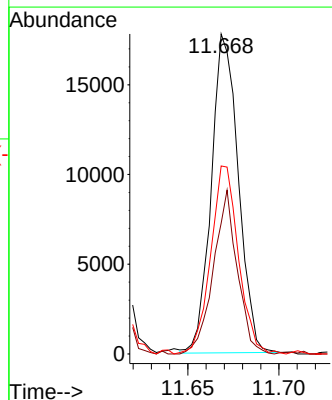
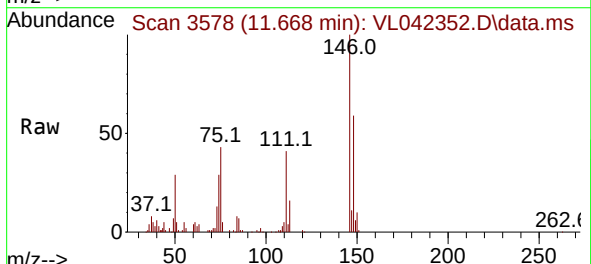
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

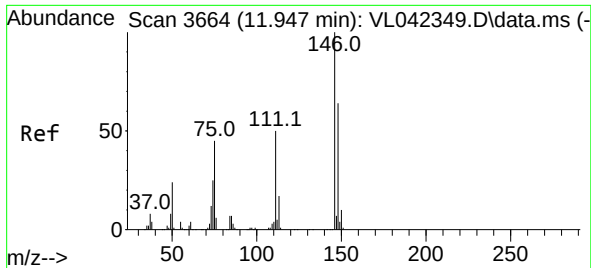
Tgt Ion:146 Resp: 18003
Ion Ratio Lower Upper
146 100
111 47.9 24.3 72.8
148 62.9 31.6 94.8



#76
1,4-Dichlorobenzene
Concen: 0.537 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:146 Resp: 18300
Ion Ratio Lower Upper
146 100
111 45.9 24.2 72.6
148 61.2 32.1 96.5

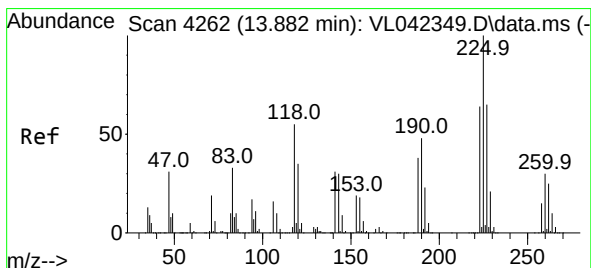
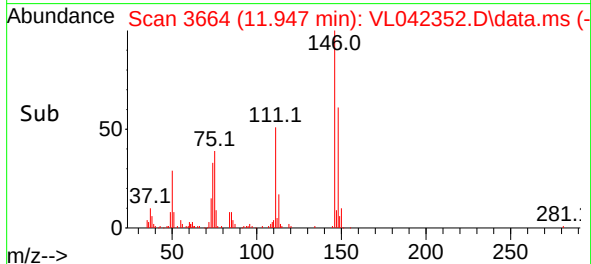
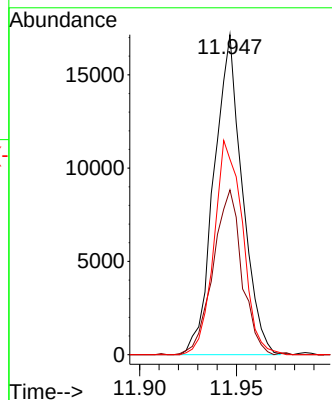
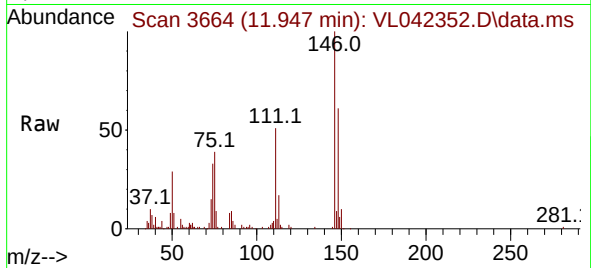




#77
1,2-Dichlorobenzene
Concen: 0.530 ppbv
RT: 11.947 min Scan# 30
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

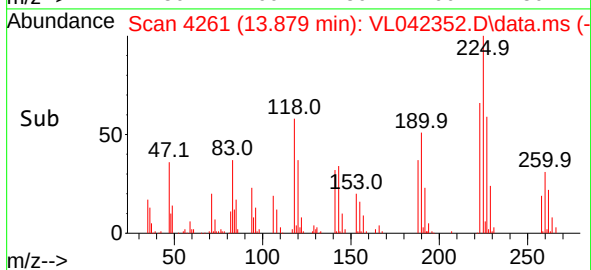
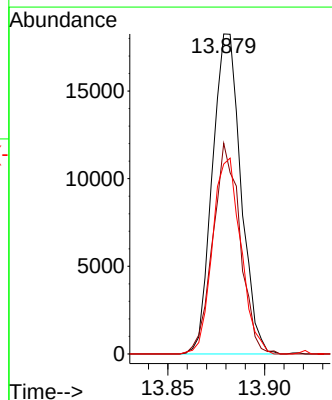
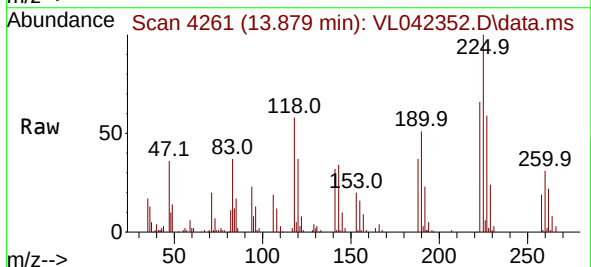
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

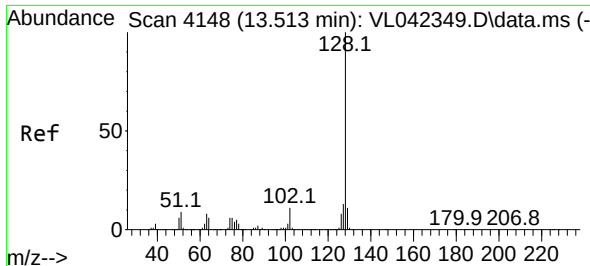
Tgt Ion:146 Resp: 17446
Ion Ratio Lower Upper
146 100
111 52.6 25.3 75.9
148 67.5 31.5 94.5



#78
Hexachloro-1,3-Butadiene
Concen: 0.562 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:225 Resp: 18705
Ion Ratio Lower Upper
225 100
223 62.8 50.3 75.5
227 61.1 51.5 77.3

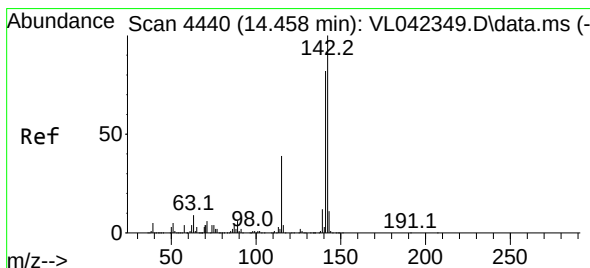
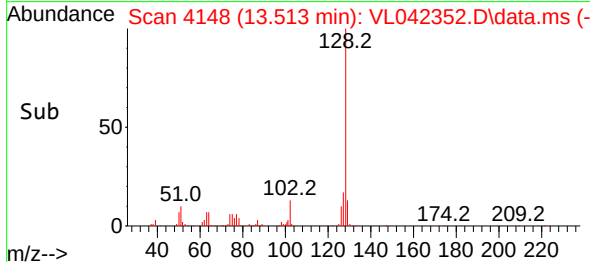
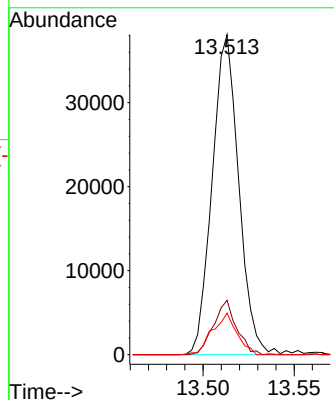
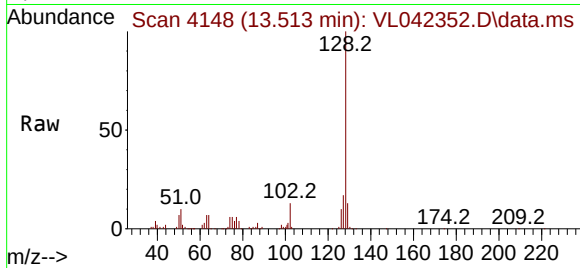




#79
Naphthalene
Concen: 0.494 ppbv
RT: 13.513 min Scan# 4148
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

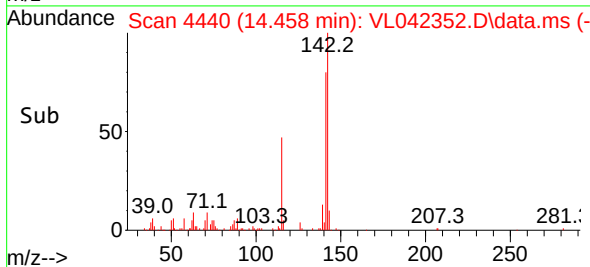
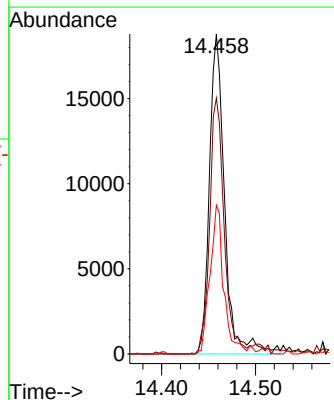
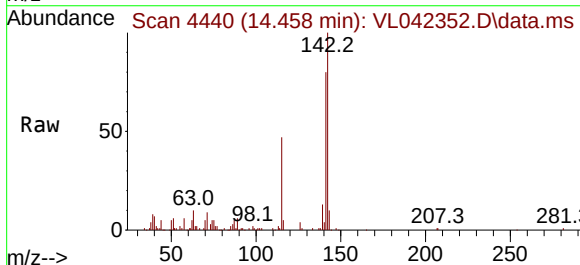
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

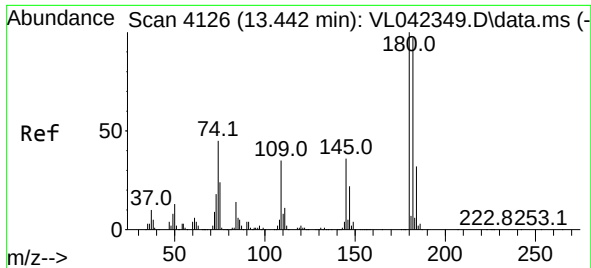
Tgt Ion:128 Resp: 38521
Ion Ratio Lower Upper
128 100
127 17.0 10.6 15.8#
129 13.0 8.6 12.8#



#80
Naphthalene,2-methyl-
Concen: 0.475 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:142 Resp: 21076
Ion Ratio Lower Upper
142 100
141 79.2 66.8 100.2
115 44.1 33.4 50.2

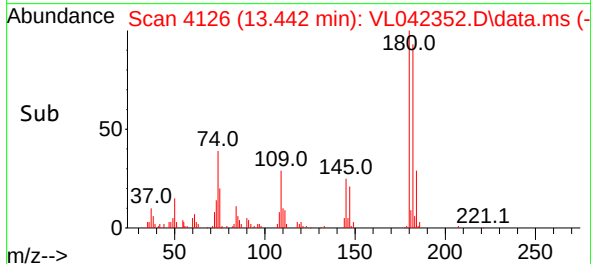
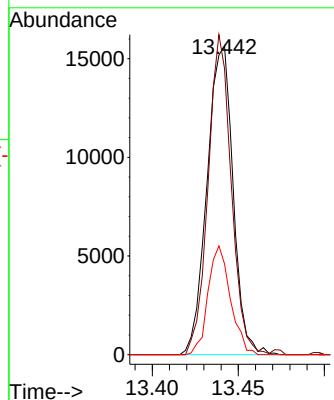
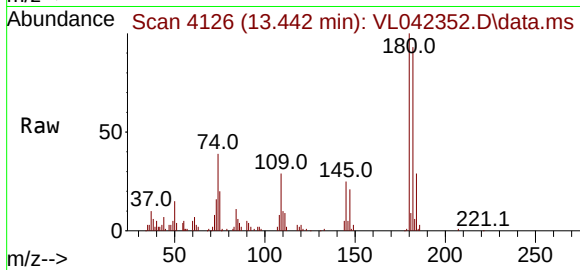




#81
 1,2,4-Trichlorobenzene
 Concen: 0.493 ppbv
 RT: 13.442 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion	Ratio	Lower	Upper
180	100		
182	92.4	76.8	115.2
184	30.2	24.6	36.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042353.D
 Acq On : 17 Apr 2025 11:50
 Operator : SY/MD
 Sample : VSTDICC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.1

Quant Time: Apr 18 01:29:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 01:24:29 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.791	49	119461	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	350484	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	315004	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.381	95	256417	9.906	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.100%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	2857	0.135	ppbv	98
3) Chlorodifluoromethane	1.477	51	2706	0.135	ppbv #	91
4) Chloromethane	1.535	50	1225	0.147	ppbv #	85
5) Vinyl Chloride	1.580	62	1088	0.120	ppbv #	74
6) Bromomethane	1.668	94	663	0.168	ppbv #	72
7) Chloroethane	1.703	64	579	0.176	ppbv #	78
8) Dichlorotetrafluoroethane	1.557	85	2377	0.131	ppbv	94
9) Propene	1.435	41	314	0.034	ppbv	90
10) Heptane	4.988	43	1056	0.043	ppbv #	1
12) 1,1,2-Trichlorotrifluo...	2.140	101	2017	0.123	ppbv	94
13) Ethanol	1.891	45	1958	2.618	ppbv #	24
14) Bromoethene	1.781	108	1015	0.164	ppbv #	77
15) Acetone	1.839	43	4783	0.245	ppbv #	82
16) 1,3-Butadiene	1.609	39	1776	0.193	ppbv #	46
17) tert-Butyl alcohol	2.049	59	3130	0.129	ppbv #	6
18) 1,1-Dichloroethene	2.037	96	1074	0.136	ppbv	85
19) Isopropyl Alcohol	1.891	45	1958	0.180	ppbv	90
20) Methylene Chloride	2.066	84	2741	0.358	ppbv #	74
21) Allyl Chloride	2.098	41	2786	0.206	ppbv #	72
22) trans-1,2-Dichloroethene	2.347	96	1201	0.138	ppbv #	60
23) Vinyl Acetate	2.457	43	326	0.041	ppbv #	77
24) 1,1-Dichloroethane	2.412	63	2169	0.131	ppbv #	78
26) Hexane	2.833	57	3260	0.167	ppbv #	1
27) Carbon Disulfide	2.150	76	2396	0.115	ppbv #	1
28) Methyl tert-Butyl Ether	2.448	73	1460	0.114	ppbv #	1
29) Chloroform	2.849	83	3542	0.128	ppbv	100
30) Cyclohexane	3.859	84	1037	0.066	ppbv #	1
32) 1,1,1-Trichloroethane	3.373	97	1734	0.059	ppbv #	20
34) 2-Butanone	2.564	43	3506	0.126	ppbv #	79
35) Carbon Tetrachloride	3.771	117	3204	0.101	ppbv #	94
36) Benzene	3.665	78	4424	0.117	ppbv	97
37) 1,2-Dichloroethane	3.224	62	2523	0.111	ppbv #	81
38) Trichloroethene	4.551	130	1113	0.067	ppbv #	63
39) 1,2-Dichloropropane	4.315	63	1007	0.071	ppbv	96
40) 1,4-Dioxane	4.616	88	431	0.056	ppbv #	1
42) Bromodichloromethane	4.496	83	2443	0.077	ppbv #	89
43) Methyl Methacrylate	4.894	69	1683	0.099	ppbv #	60
44) 2,2,4-Trimethylpentane	4.648	57	2115	0.032	ppbv #	42
45) t-1,3-Dichloropropene	6.429	75	748	0.043	ppbv	98
46) cis-1,3-Dichloropropene	5.610	75	1032	0.048	ppbv	90
47) 1,1,2-Trichloroethane	6.584	97	540	0.038	ppbv #	39
48) Dibromochloromethane	7.393	129	1149	0.045	ppbv #	1
49) Bromoform	9.484	173	1973	0.089	ppbv #	86

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042353.D
 Acq On : 17 Apr 2025 11:50
 Operator : SY/MD
 Sample : VSTDICC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.1

Quant Time: Apr 18 01:29:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 01:24:29 2025
 Response via : Initial Calibration

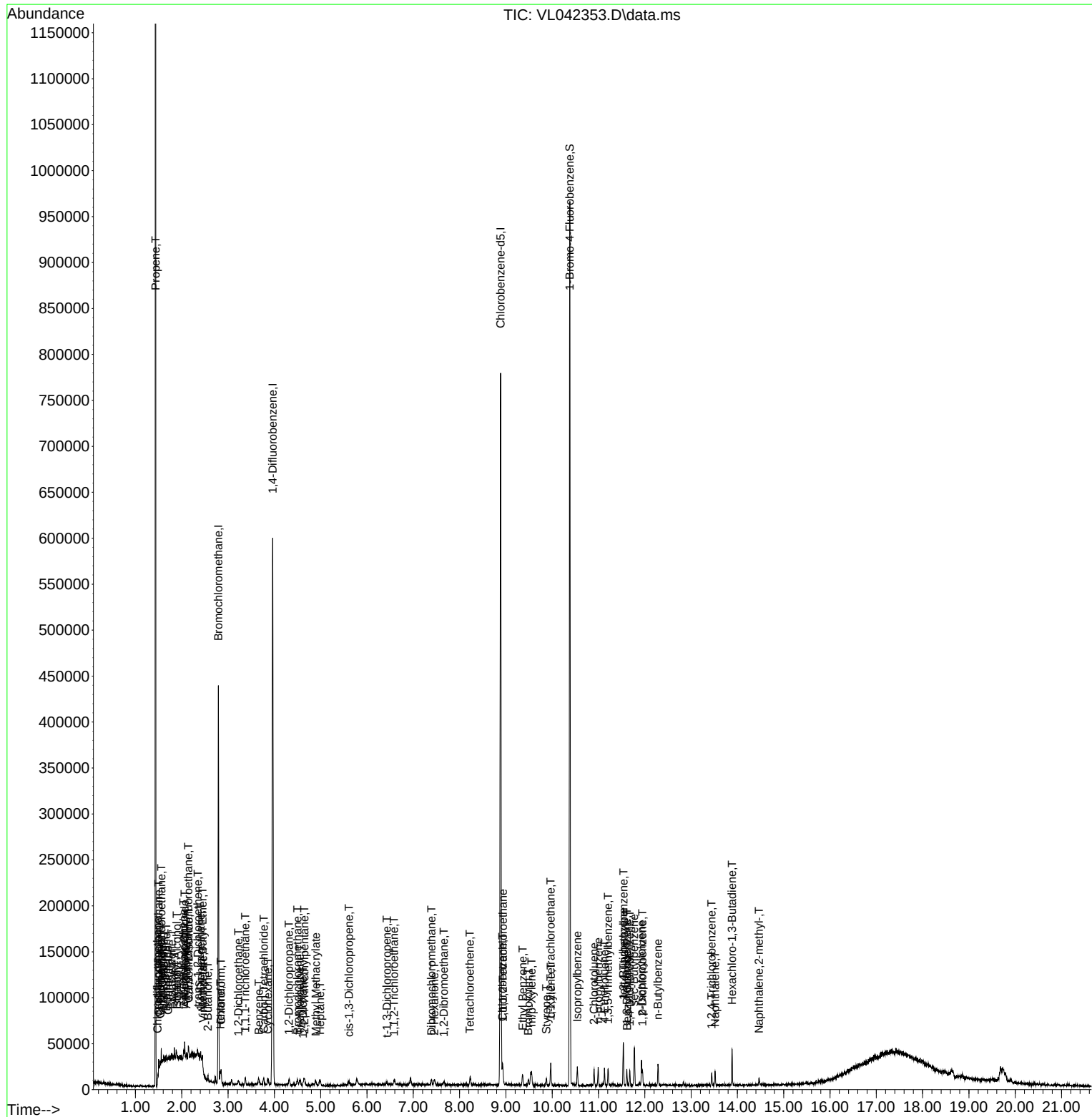
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
51) 2-Hexanone	7.455	43	4915	0.118	ppbv	#	99
52) Tetrachloroethene	8.222	164	957	0.065	ppbv		88
54) 1,2-Dibromoethane	7.662	107	1470	0.072	ppbv	#	75
56) 1,1,1,2-Tetrachloroethane	8.934	131	2031	0.107	ppbv	#	47
57) Chlorobenzene	8.924	112	3842	0.117	ppbv	#	76
58) Ethyl Benzene	9.361	91	3105	0.050	ppbv		95
59) m/p-Xylene	9.552	91	4844	0.096	ppbv	#	32
60) o-Xylene	9.970	91	5359	0.106	ppbv		91
61) Styrene	9.872	104	1549	0.064	ppbv	#	26
62) Isopropylbenzene	10.542	105	8285	0.111	ppbv		97
63) 1,1,2,2-Tetrachloroethane	9.966	83	3646	0.111	ppbv		97
64) n-propylbenzene	10.996	120	2186	0.117	ppbv		93
65) tert-Butylbenzene	11.536	119	8656	0.127	ppbv		85
66) Benzyl Chloride	11.617	91	414	0.055	ppbv	#	81
67) sec-Butylbenzene	11.769	105	11126	0.117	ppbv		96
69) p-Isopropyltoluene	11.928	119	9534	0.115	ppbv		98
70) n-Butylbenzene	12.284	91	8684	0.101	ppbv		96
71) 2-Chlorotoluene	10.905	91	6703	0.115	ppbv		99
72) 4-Ethyltoluene	11.128	105	6463	0.104	ppbv	#	80
73) 1,3,5-Trimethylbenzene	11.206	105	6797	0.124	ppbv		96
74) 1,2,4-Trimethylbenzene	11.539	105	8745	0.137	ppbv	#	81
75) 1,3-Dichlorobenzene	11.610	146	3258	0.098	ppbv		85
76) 1,4-Dichlorobenzene	11.678	146	3366	0.101	ppbv		92
77) 1,2-Dichlorobenzene	11.950	146	3996	0.124	ppbv		93
78) Hexachloro-1,3-Butadiene	13.883	225	4030	0.124	ppbv		97
79) Naphthalene	13.517	128	7664	0.100	ppbv	#	92
80) Naphthalene,2-methyl-	14.468	142	3339	0.077	ppbv	#	92
81) 1,2,4-Trichlorobenzene	13.442	180	2245	0.069	ppbv	#	95

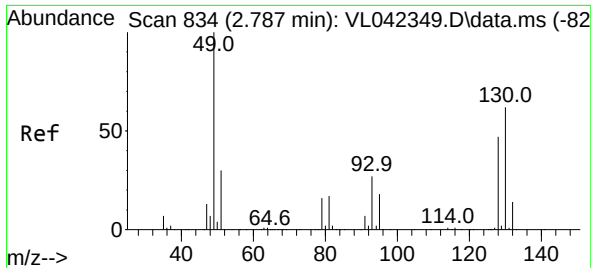
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042353.D
Acq On : 17 Apr 2025 11:50
Operator : SY/MD
Sample : VSTDIC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

Quant Time: Apr 18 01:29:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

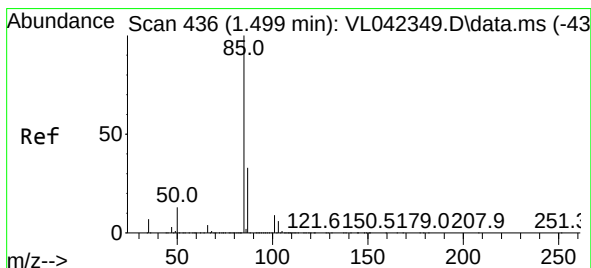
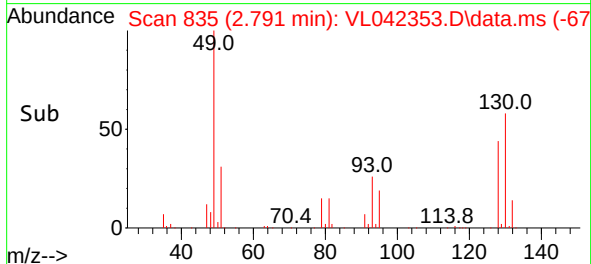
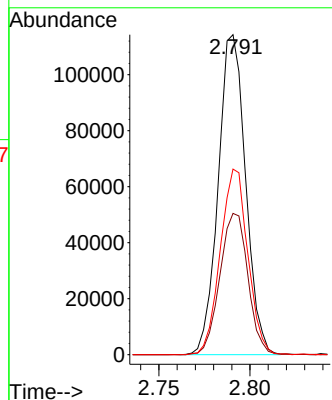
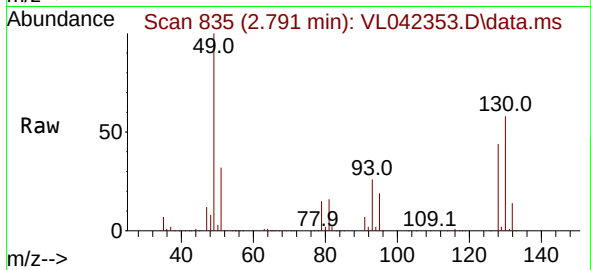




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.791 min Scan# 81
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

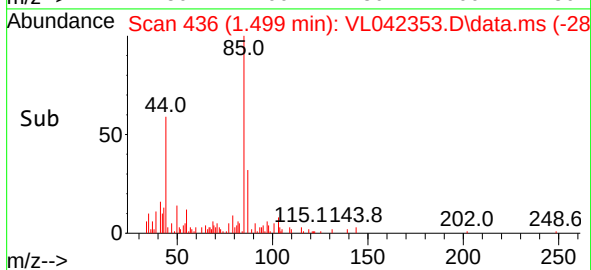
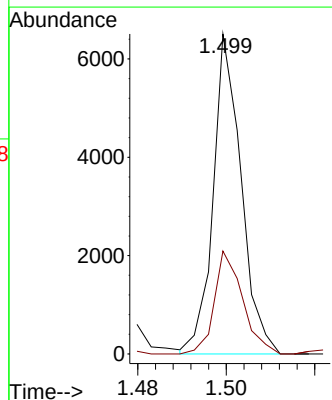
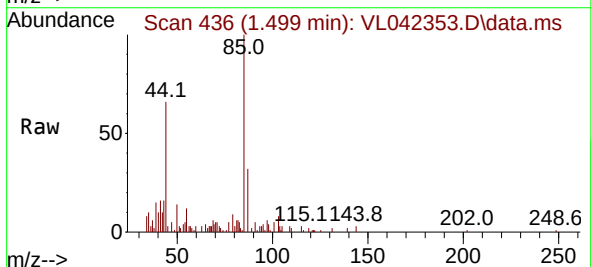
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

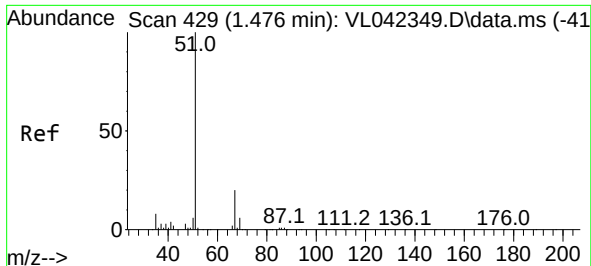
Tgt Ion: 49 Resp: 119461
Ion Ratio Lower Upper
49 100
128 45.3 22.8 68.4
130 58.3 29.3 88.0



#2
Dichlorodifluoromethane
Concen: 0.135 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 85 Resp: 2857
Ion Ratio Lower Upper
85 100
87 32.2 26.6 39.8

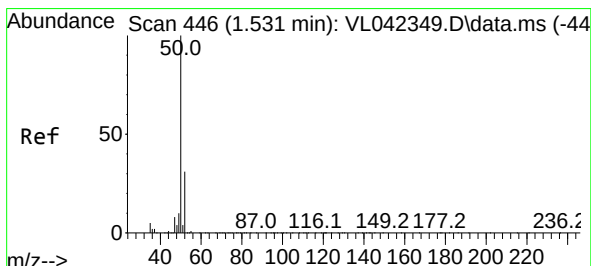
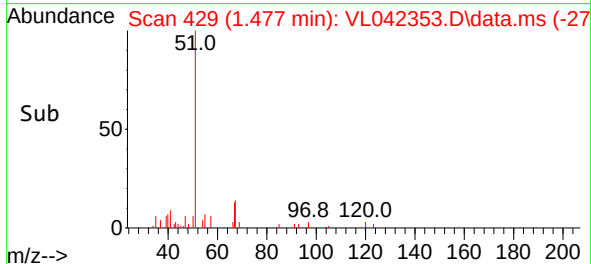
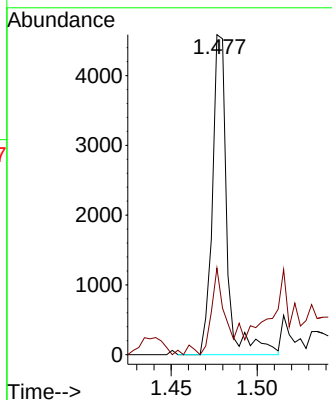
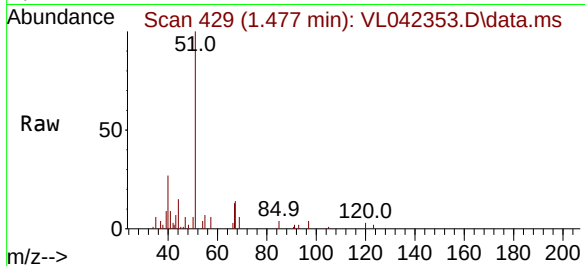




#3
Chlorodifluoromethane
Concen: 0.135 ppbv
RT: 1.477 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

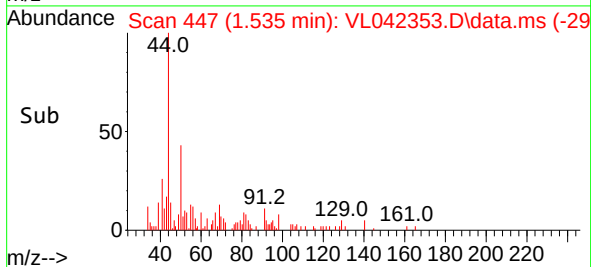
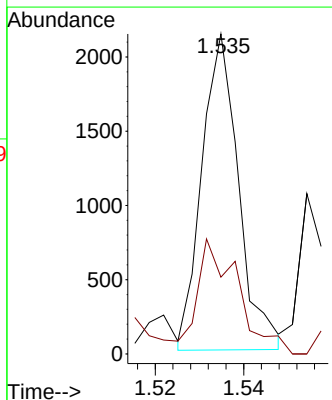
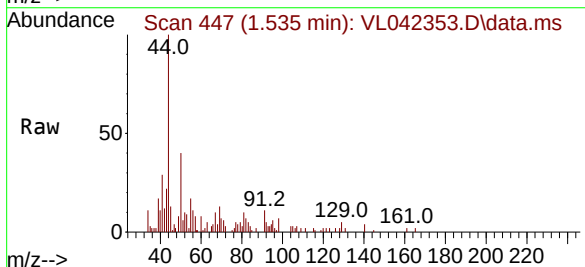
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

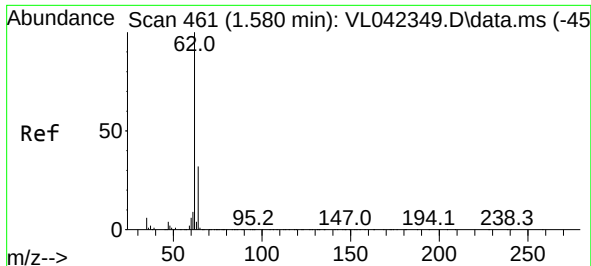
Tgt Ion: 51 Resp: 2706
Ion Ratio Lower Upper
51 100
67 24.5 16.2 24.4#



#4
Chloromethane
Concen: 0.147 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 50 Resp: 1225
Ion Ratio Lower Upper
50 100
52 22.9 24.7 37.1#

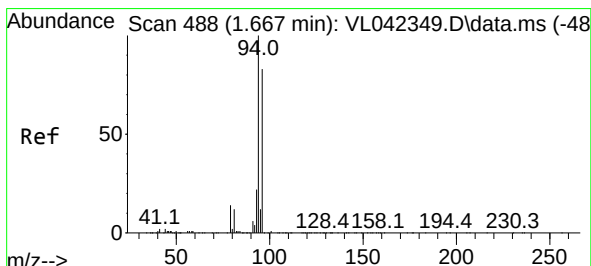
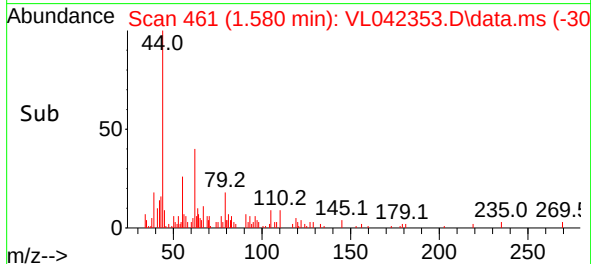
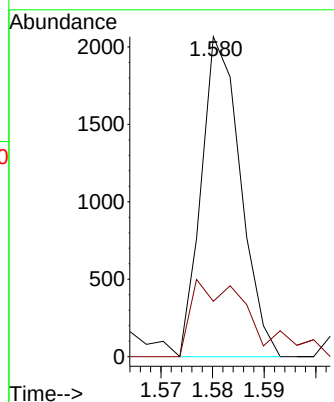
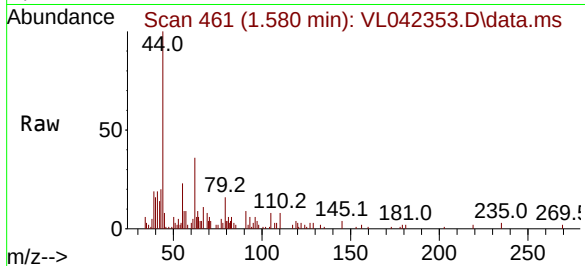




#5
 Vinyl Chloride
 Concen: 0.120 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.000 min
 Lab File: VL042353.D
 Acq: 17 Apr 2025 11:50

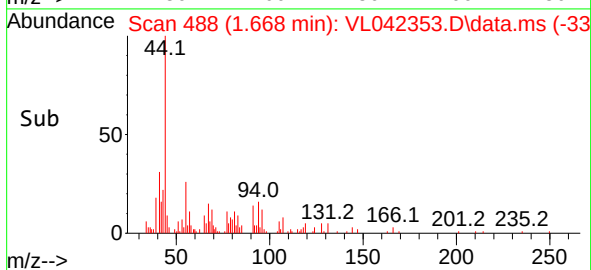
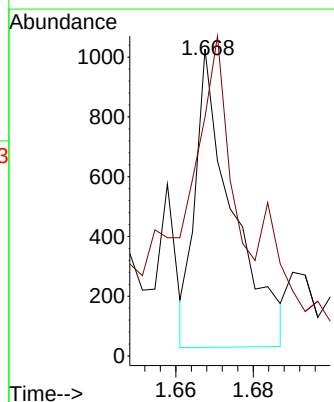
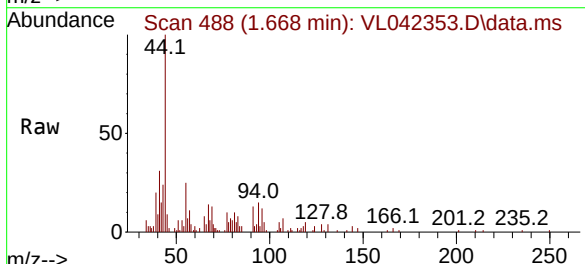
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

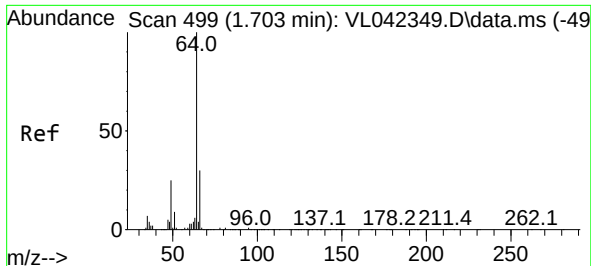
Tgt Ion: 62 Resp: 1088
 Ion Ratio Lower Upper
 62 100
 64 17.3 25.4 38.0#



#6
 Bromomethane
 Concen: 0.168 ppbv
 RT: 1.668 min Scan# 488
 Delta R.T. 0.000 min
 Lab File: VL042353.D
 Acq: 17 Apr 2025 11:50

Tgt Ion: 94 Resp: 663
 Ion Ratio Lower Upper
 94 100
 96 57.5 66.2 99.2#

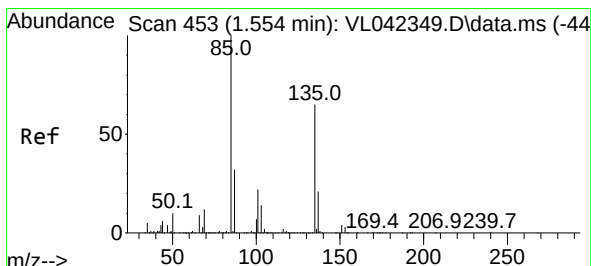
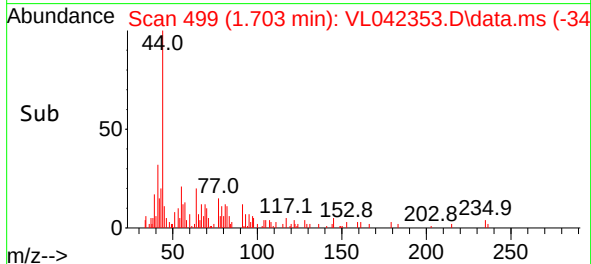
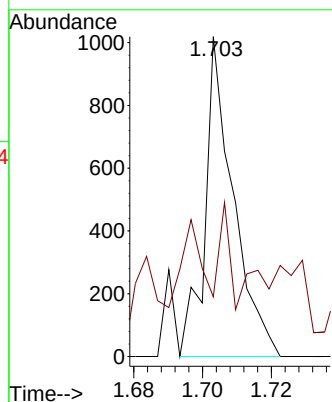
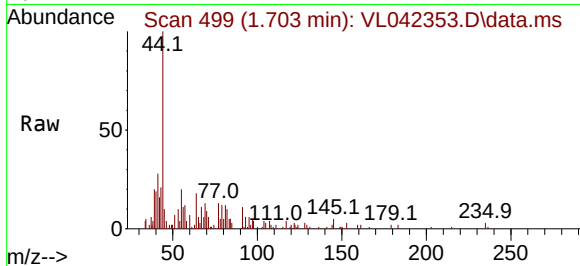




#7
Chloroethane
Concen: 0.176 ppbv
RT: 1.703 min Scan# 499
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

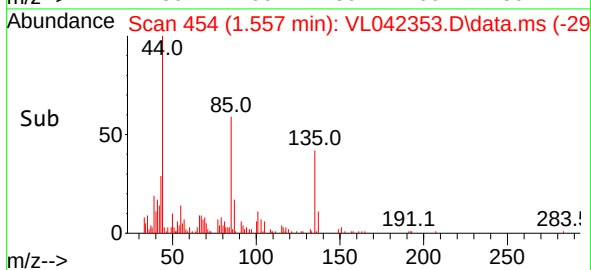
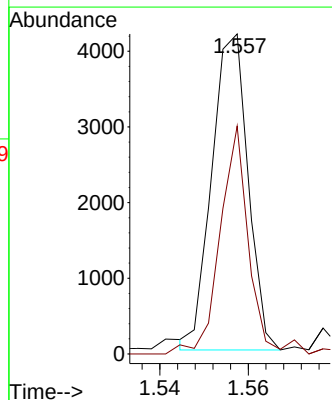
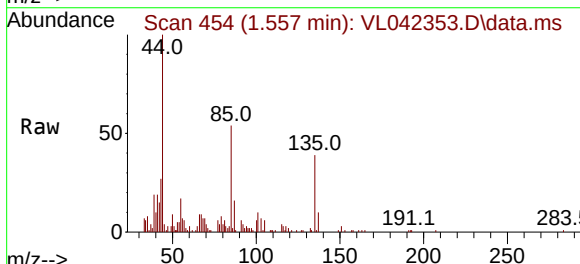
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

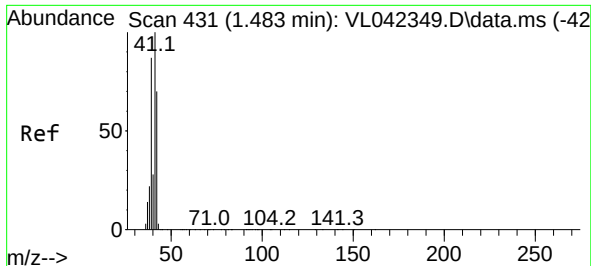
Tgt Ion: 64 Resp: 579
Ion Ratio Lower Upper
64 100
66 18.6 24.6 37.0#



#8
Dichlorotetrafluoroethane
Concen: 0.131 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 85 Resp: 2377
Ion Ratio Lower Upper
85 100
135 60.3 52.2 78.2





#9

Propene

Concen: 0.034 ppbv

RT: 1.435 min Scan# 41

Delta R.T. -0.048 min

Lab File: VL042353.D

Acq: 17 Apr 2025 11:50

Instrument :

MSVOA_L

ClientSampleId :

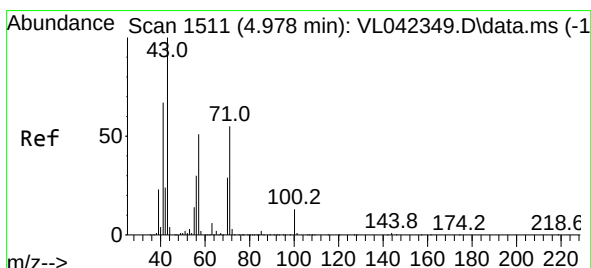
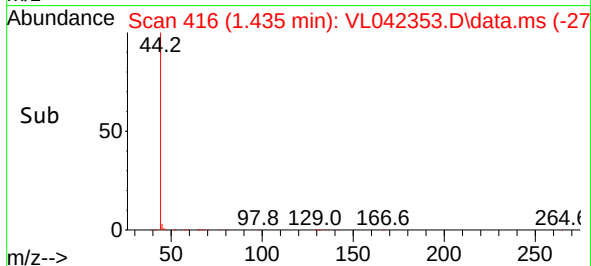
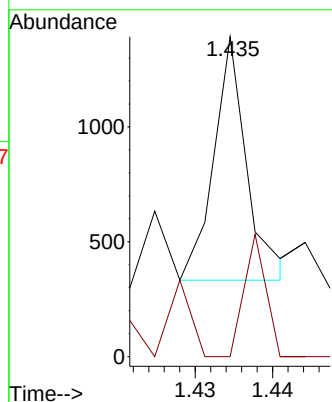
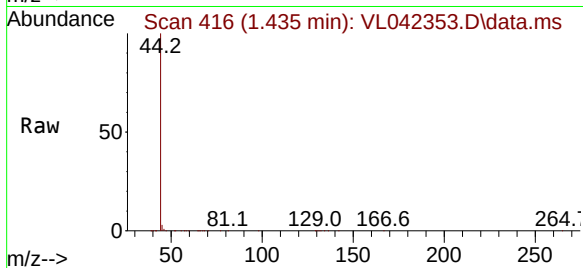
VSTDIC0.1

Tgt Ion: 41 Resp: 314

Ion Ratio Lower Upper

41 100

42 78.7 56.2 84.4



#10

Heptane

Concen: 0.043 ppbv

RT: 4.988 min Scan# 1514

Delta R.T. 0.010 min

Lab File: VL042353.D

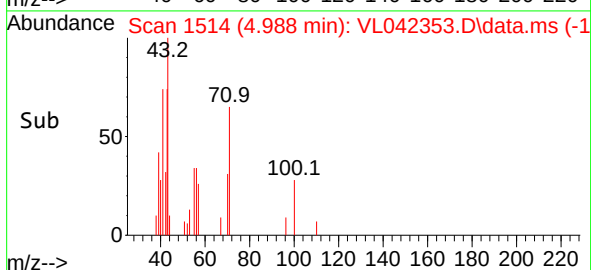
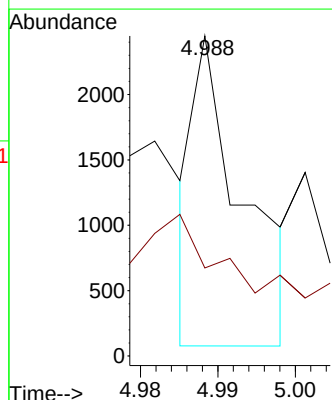
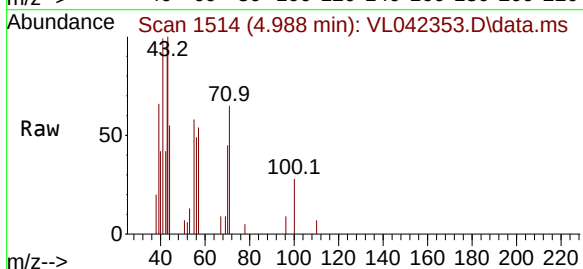
Acq: 17 Apr 2025 11:50

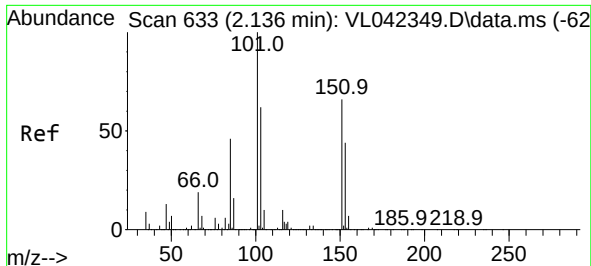
Tgt Ion: 43 Resp: 1056

Ion Ratio Lower Upper

43 100

57 220.7 39.9 59.9#

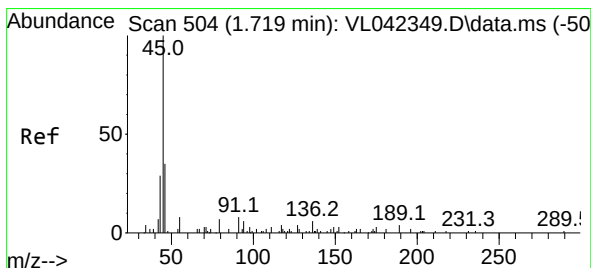
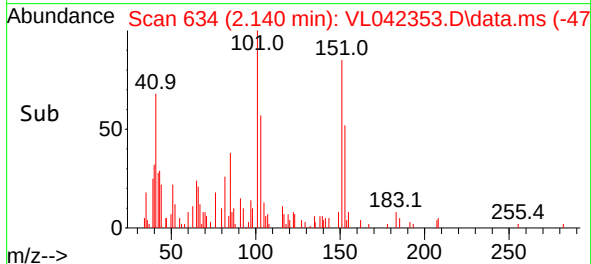
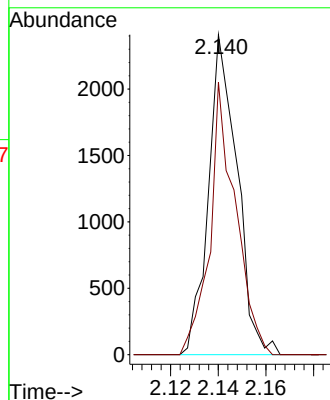
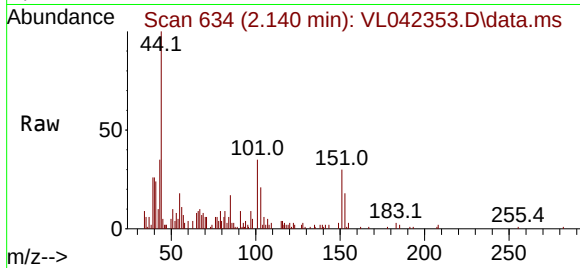




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.123 ppbv
RT: 2.140 min Scan# 61
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

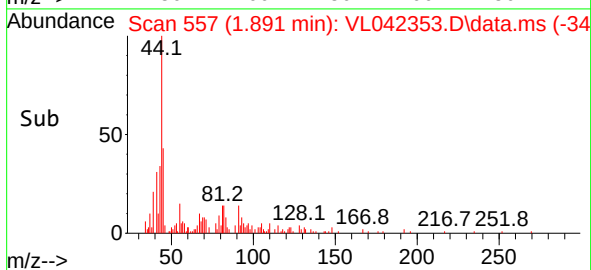
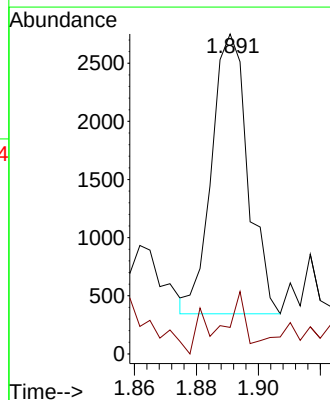
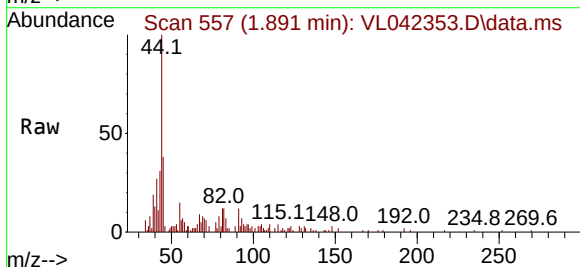
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

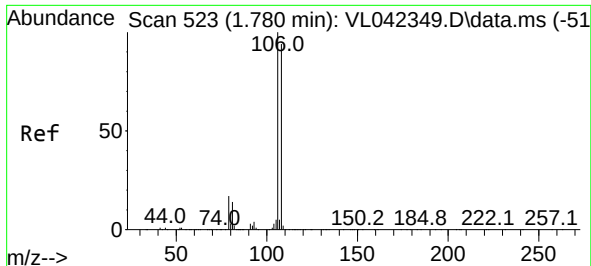
Tgt Ion:101 Resp: 2017
Ion Ratio Lower Upper
101 100
151 76.2 57.0 85.6



#13
Ethanol
Concen: 2.618 ppbv
RT: 1.891 min Scan# 557
Delta R.T. 0.172 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 45 Resp: 1958
Ion Ratio Lower Upper
45 100
46 0.0 21.9 87.7#

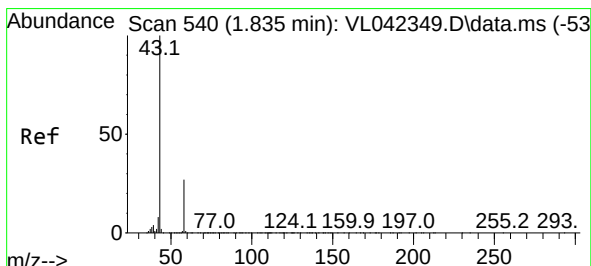
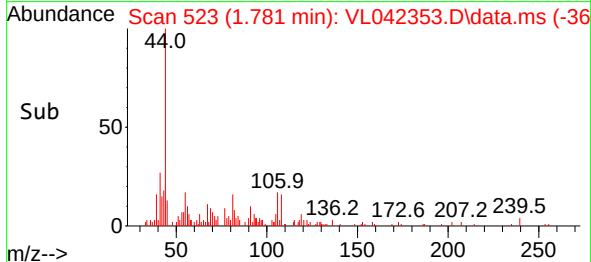
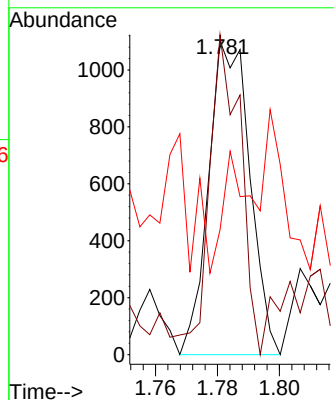
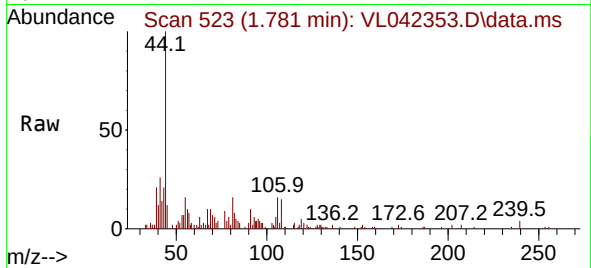




#14
Bromoethene
Concen: 0.164 ppbv
RT: 1.781 min Scan# 51
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

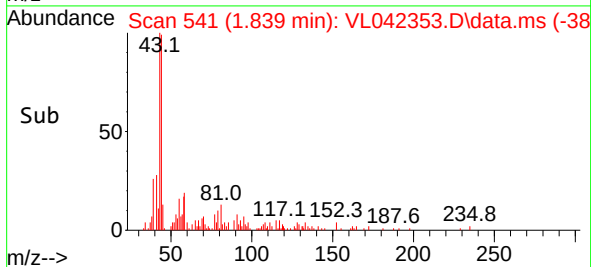
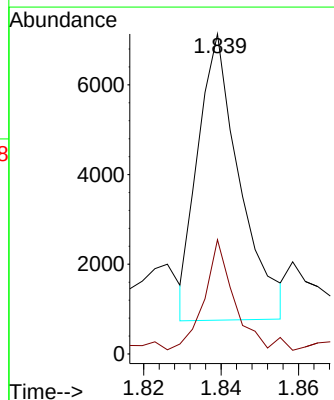
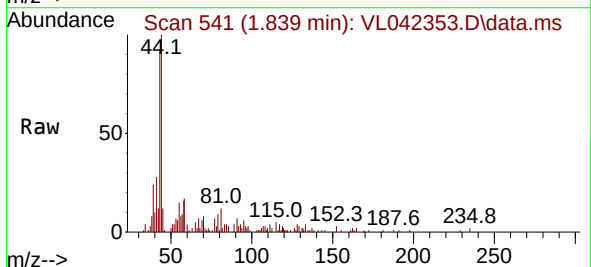
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

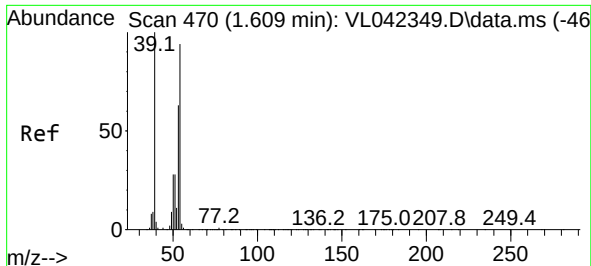
Tgt Ion:108 Resp: 1015
Ion Ratio Lower Upper
108 100
106 128.3 85.9 128.9
79 0.0 13.9 20.9#



#15
Acetone
Concen: 0.245 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 43 Resp: 4783
Ion Ratio Lower Upper
43 100
58 37.5 22.4 33.6#

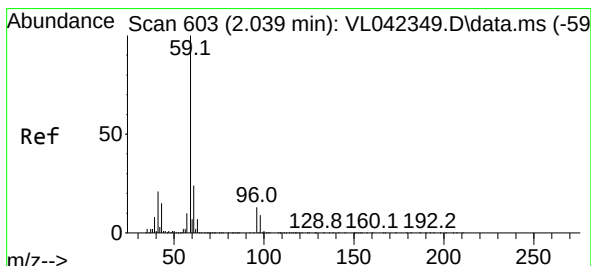
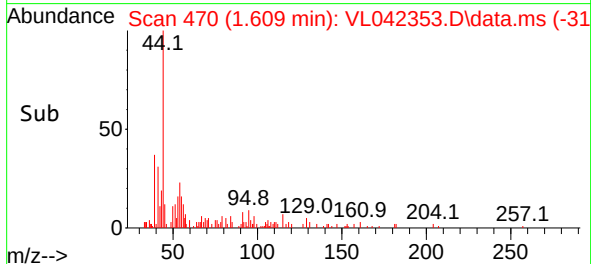
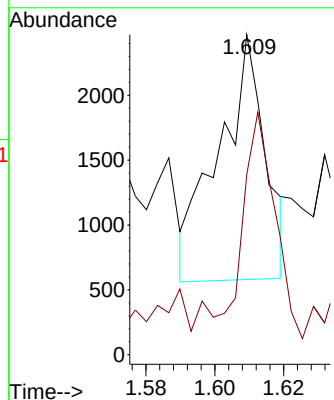
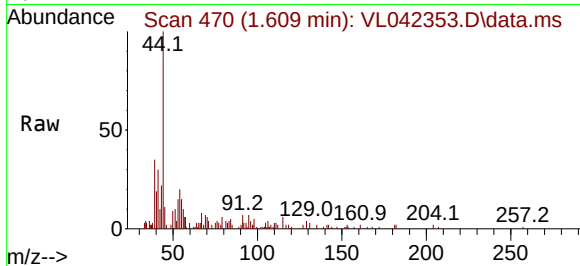




#16
1,3-Butadiene
Concen: 0.193 ppbv
RT: 1.609 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

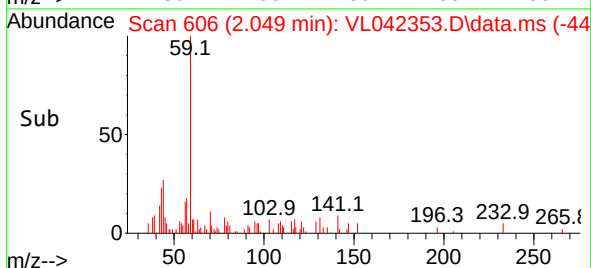
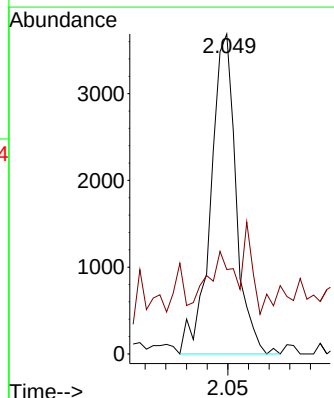
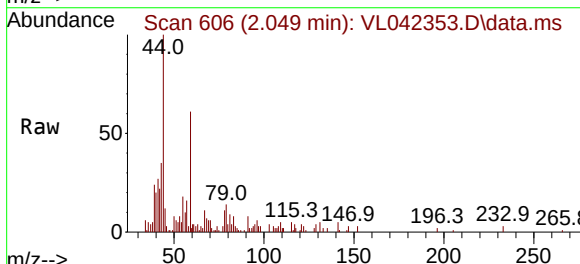
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

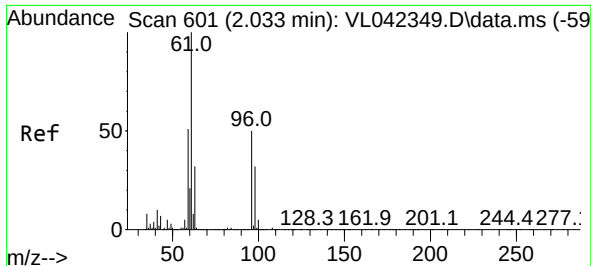
Tgt Ion: 39 Resp: 1776
Ion Ratio Lower Upper
39 100
54 128.7 64.9 97.3#



#17
tert-Butyl alcohol
Concen: 0.129 ppbv
RT: 2.049 min Scan# 606
Delta R.T. 0.010 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 59 Resp: 3130
Ion Ratio Lower Upper
59 100
57 46.5 8.7 13.1#





#18

1,1-Dichloroethene

Concen: 0.136 ppbv

RT: 2.037 min Scan# 601

Delta R.T. 0.004 min

Lab File: VL042353.D

Acq: 17 Apr 2025 11:50

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

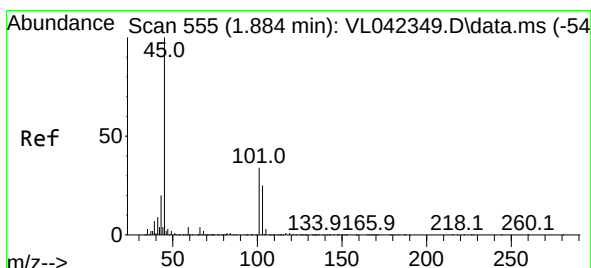
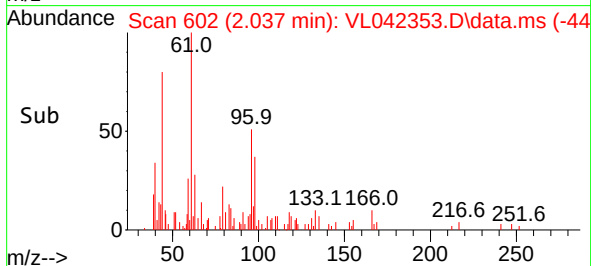
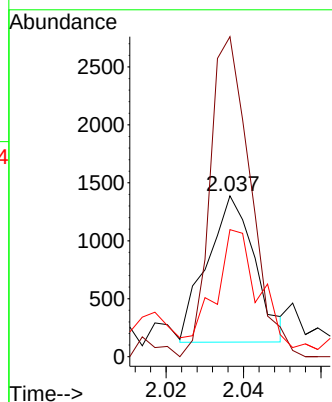
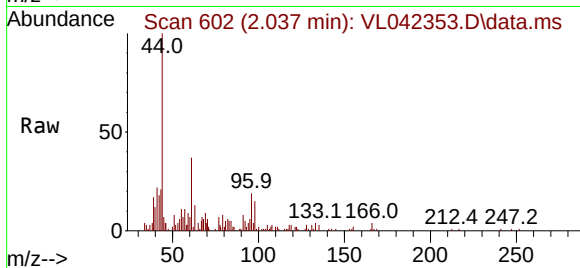
Tgt Ion: 96 Resp: 1074

Ion Ratio Lower Upper

96 100

61 222.5 160.2 240.2

98 75.2 51.0 76.4



#19

Isopropyl Alcohol

Concen: 0.180 ppbv

RT: 1.891 min Scan# 557

Delta R.T. 0.007 min

Lab File: VL042353.D

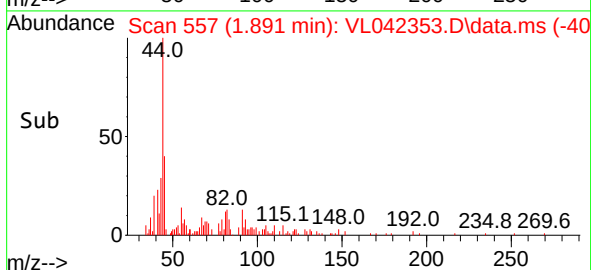
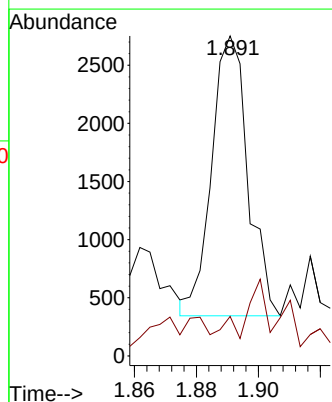
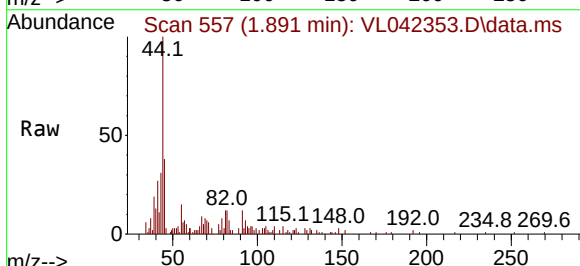
Acq: 17 Apr 2025 11:50

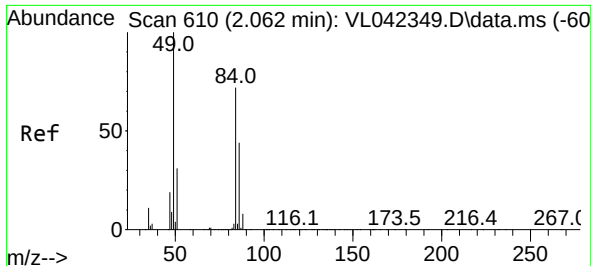
Tgt Ion: 45 Resp: 1958

Ion Ratio Lower Upper

45 100

58 49.5 34.5 51.7

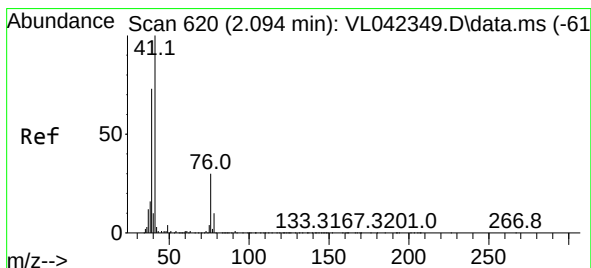
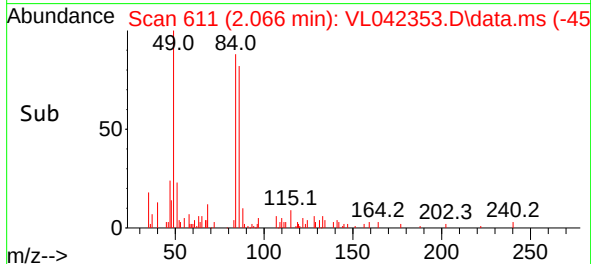
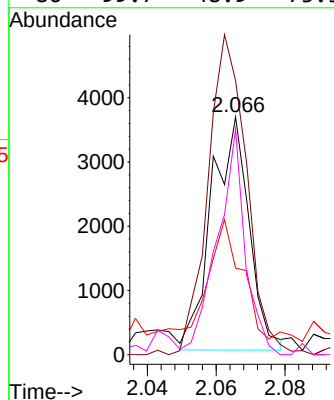
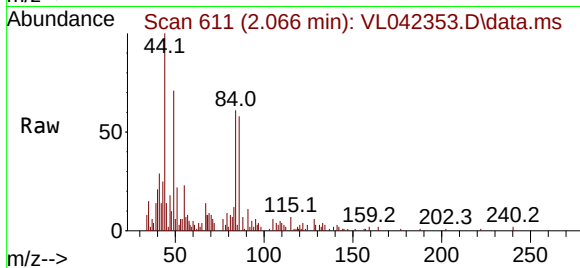




#20
Methylene Chloride
Concen: 0.358 ppbv
RT: 2.066 min Scan# 610
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

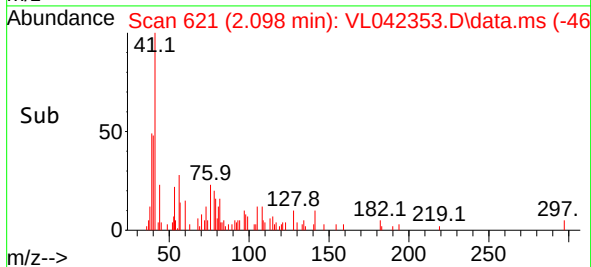
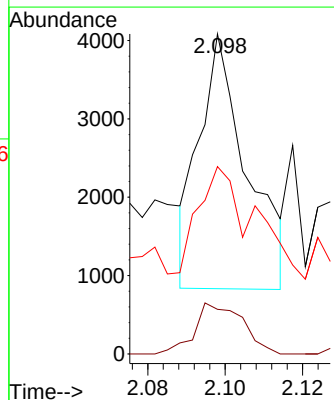
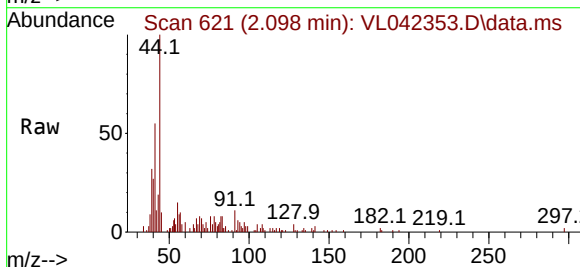
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

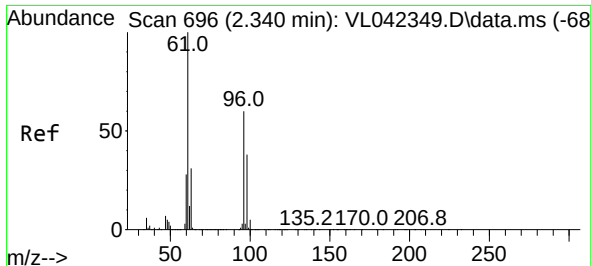
Tgt Ion:	84	Resp:	2741
Ion	Ratio	Lower	Upper
84	100		
49	119.3	111.6	167.4
51	28.2	35.1	52.7#
86	99.7	48.9	73.3#



#21
Allyl Chloride
Concen: 0.206 ppbv
RT: 2.098 min Scan# 621
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion:	41	Resp:	2786
Ion	Ratio	Lower	Upper
41	100		
76	20.0	24.8	37.2#
39	102.2	60.6	90.8#

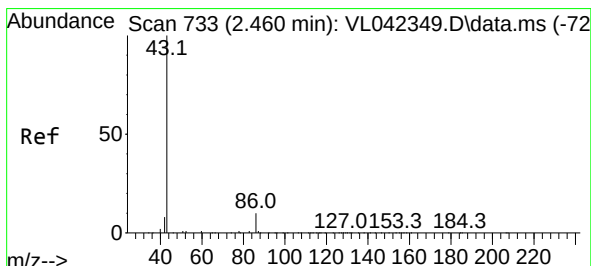
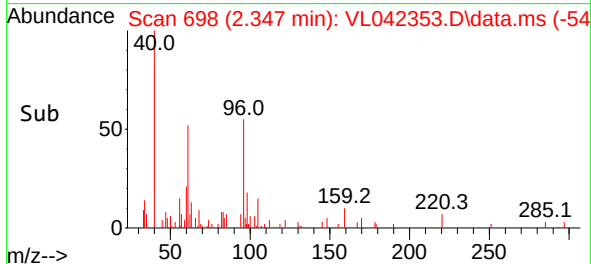
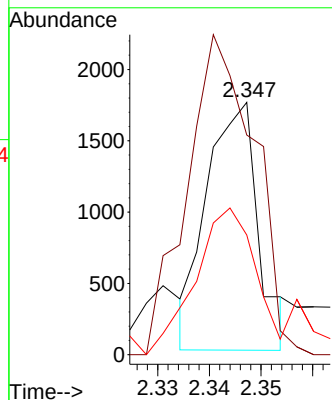
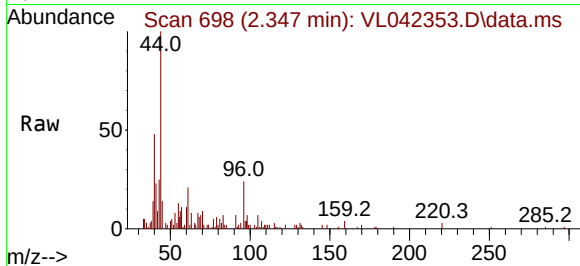




#22
trans-1,2-Dichloroethene
Concen: 0.138 ppbv
RT: 2.347 min Scan# 696
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

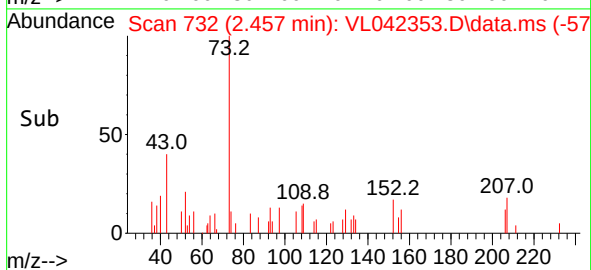
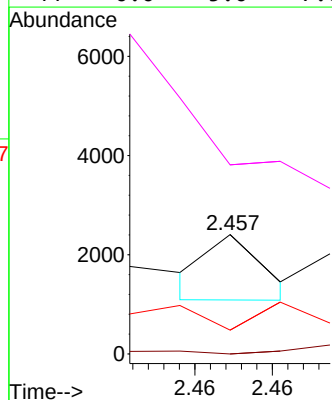
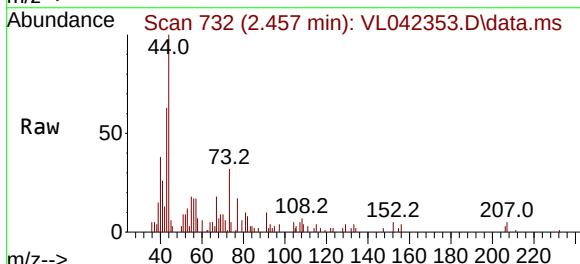
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

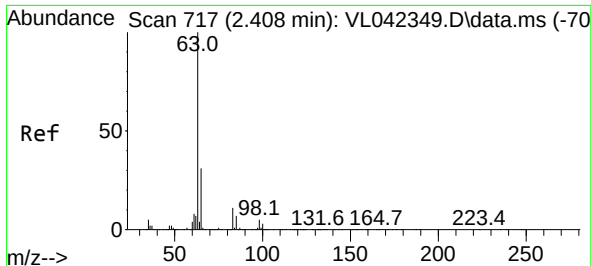
Tgt Ion: 96 Resp: 1201
Ion Ratio Lower Upper
96 100
61 99.5 133.7 200.5#
98 52.9 50.3 75.5



#23
Vinyl Acetate
Concen: 0.041 ppbv
RT: 2.457 min Scan# 732
Delta R.T. -0.003 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 43 Resp: 326
Ion Ratio Lower Upper
43 100
86 0.0 6.5 9.7#
42 0.0 7.8 11.8#
44 0.0 5.0 7.6#

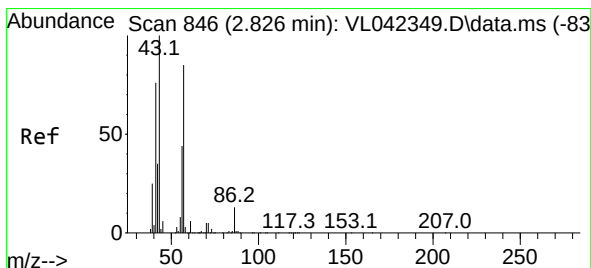
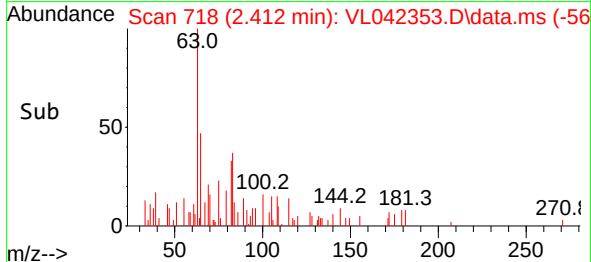
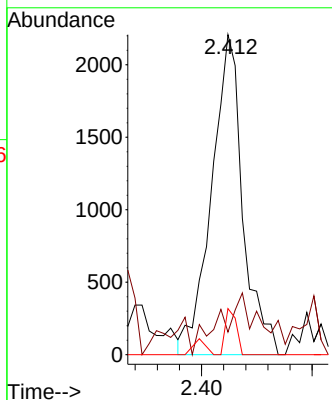
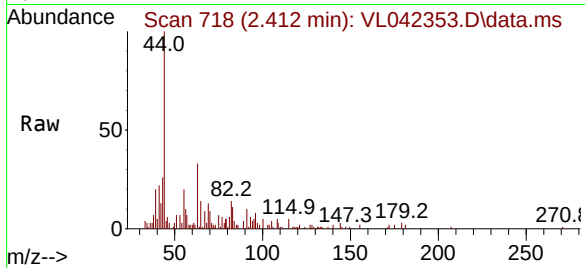




#24
1,1-Dichloroethane
Concen: 0.131 ppbv
RT: 2.412 min Scan# 718
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

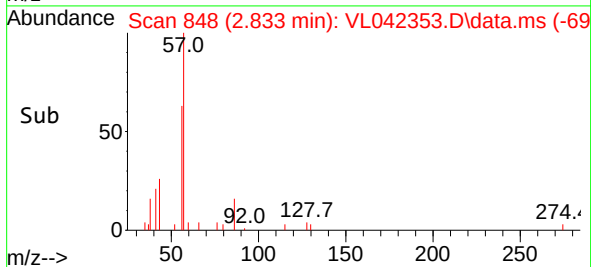
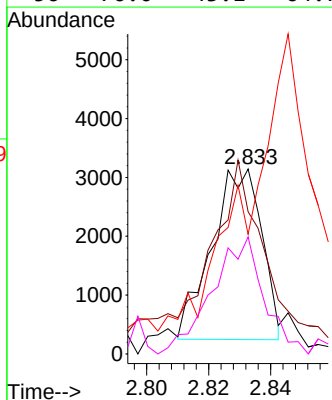
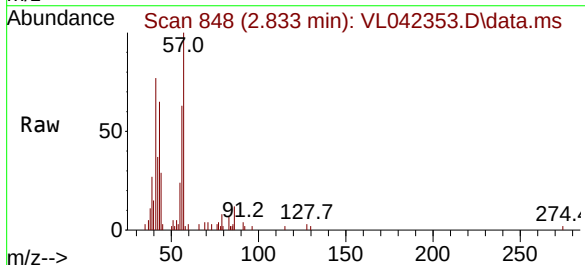
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

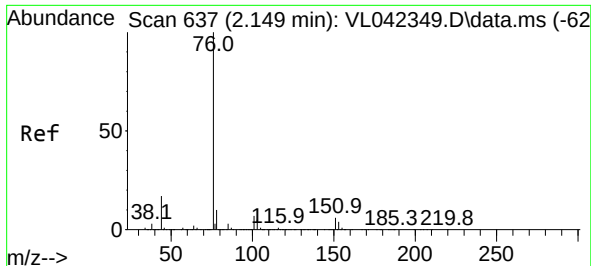
Tgt Ion: 63	Resp:	2169
Ion Ratio	Lower	Upper
63	100	
98	0.0	2.3
100	14.4	1.6



#26
Hexane
Concen: 0.167 ppbv
RT: 2.833 min Scan# 848
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 57	Resp:	3260
Ion Ratio	Lower	Upper
57	100	
41	134.5	77.9
43	0.0	208.4
56	76.0	43.1

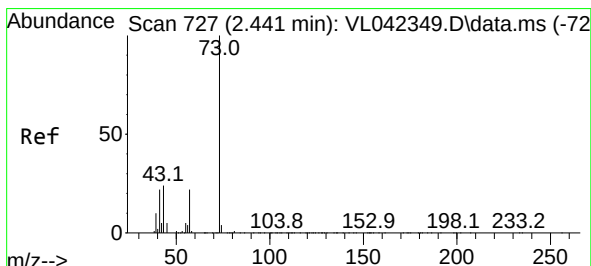
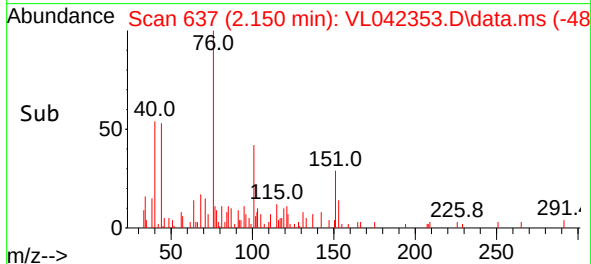
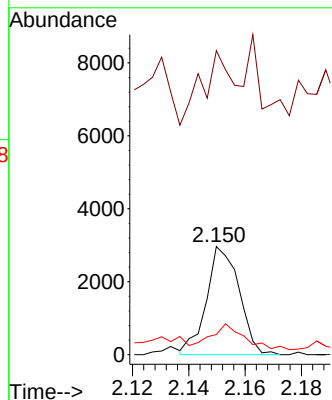
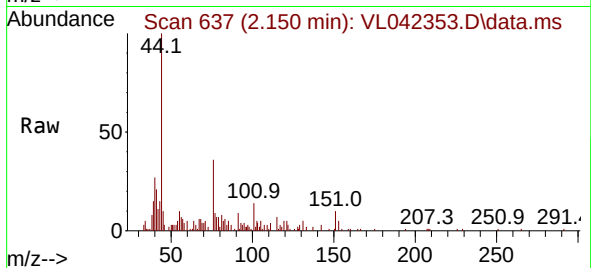




#27
Carbon Disulfide
Concen: 0.115 ppbv
RT: 2.150 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

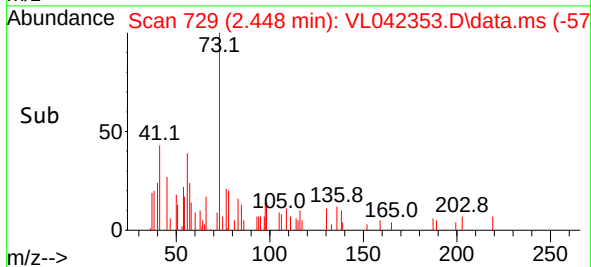
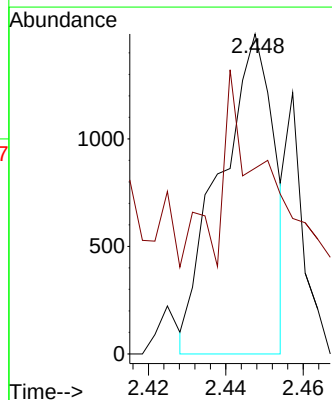
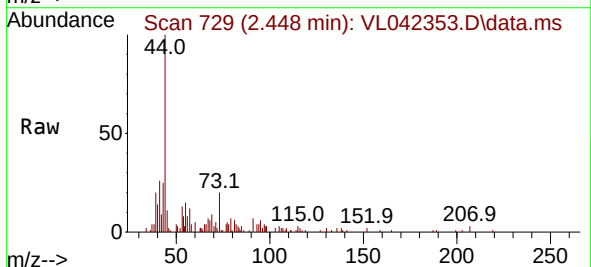
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

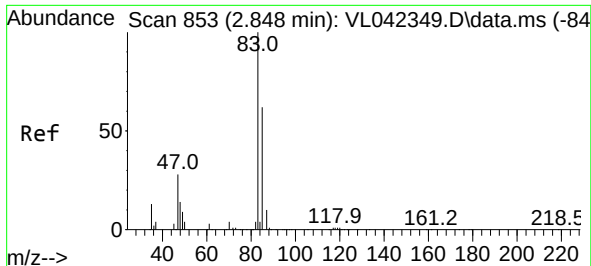
Tgt Ion: 76 Resp: 2396
Ion Ratio Lower Upper
76 100
44 214.1 15.5 23.3#
78 41.9 9.3 13.9#



#28
Methyl tert-Butyl Ether
Concen: 0.114 ppbv
RT: 2.448 min Scan# 729
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 73 Resp: 1460
Ion Ratio Lower Upper
73 100
57 84.5 21.3 31.9#





#29

Chloroform

Concen: 0.128 ppbv

RT: 2.849 min Scan# 81

Delta R.T. 0.000 min

Lab File: VL042353.D

Acq: 17 Apr 2025 11:50

Instrument :

MSVOA_L

ClientSampleId :

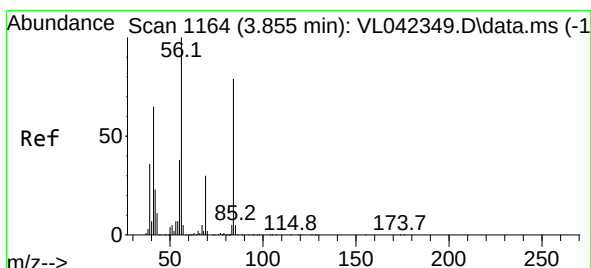
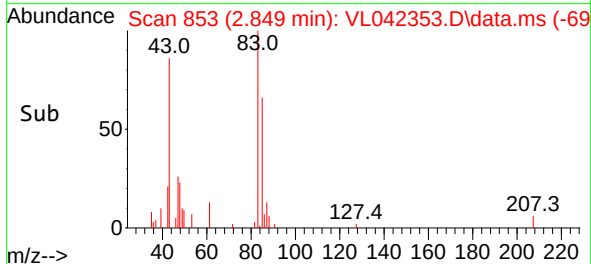
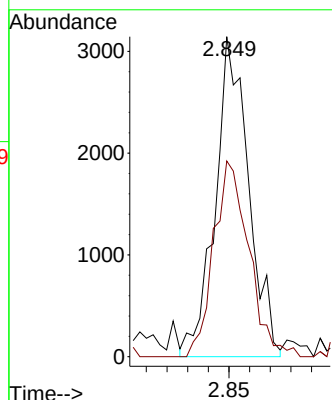
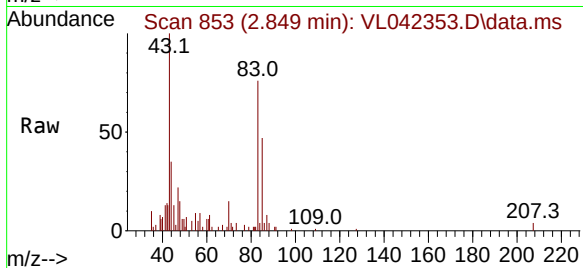
VSTDIC0.1

Tgt Ion: 83 Resp: 3542

Ion Ratio Lower Upper

83 100

85 62.5 50.0 75.0



#30

Cyclohexane

Concen: 0.066 ppbv

RT: 3.859 min Scan# 1165

Delta R.T. 0.004 min

Lab File: VL042353.D

Acq: 17 Apr 2025 11:50

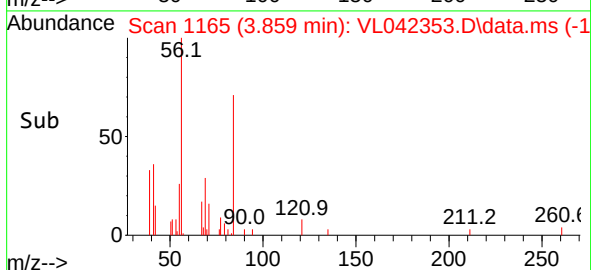
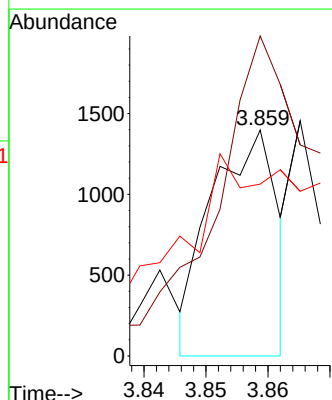
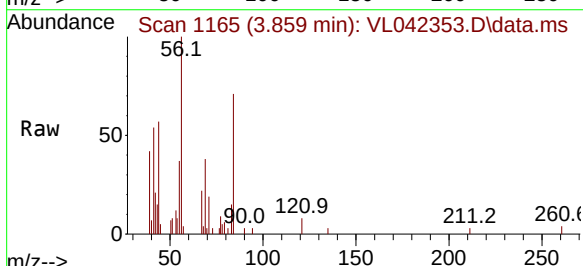
Tgt Ion: 84 Resp: 1037

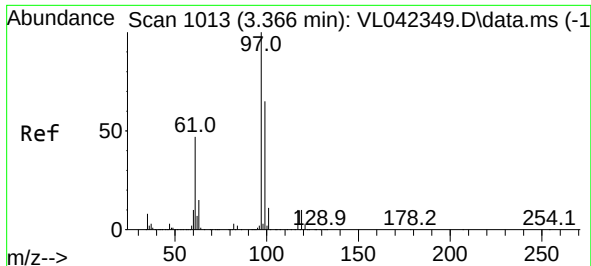
Ion Ratio Lower Upper

84 100

56 278.1 101.0 151.4#

41 346.5 67.4 101.0#

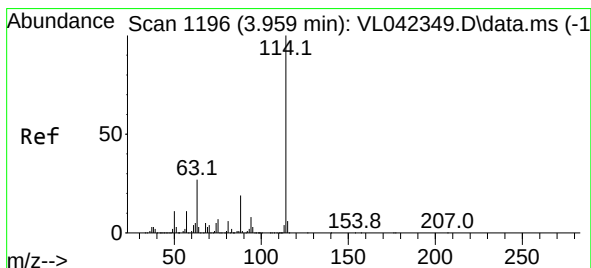
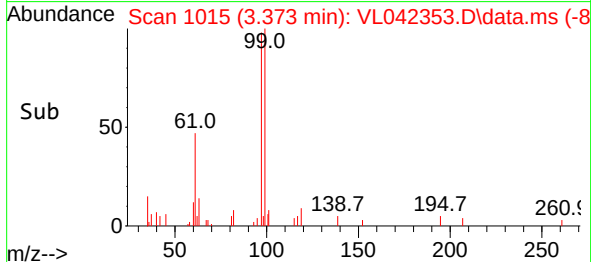
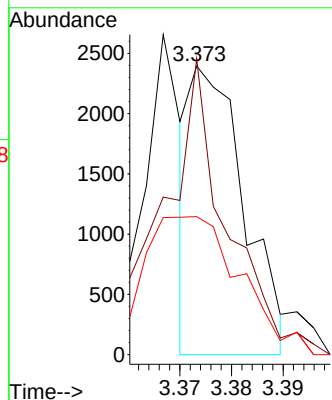
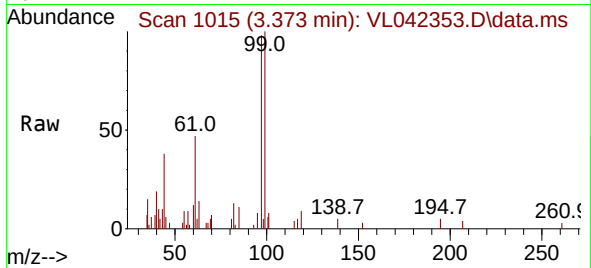




#32
1,1,1-Trichloroethane
Concen: 0.059 ppbv
RT: 3.373 min Scan# 1013
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

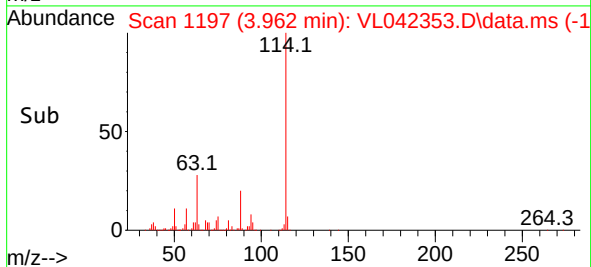
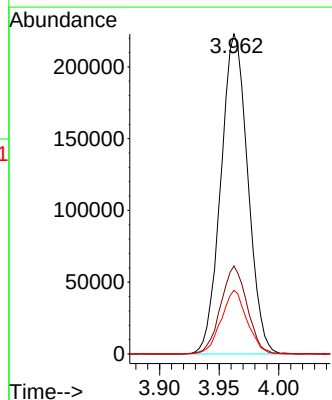
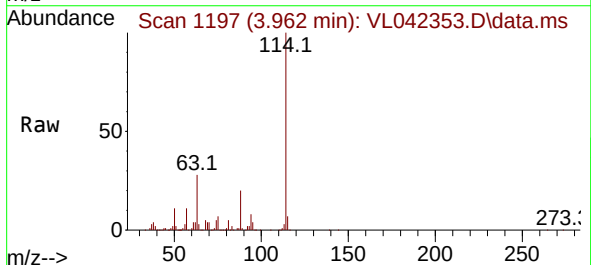
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

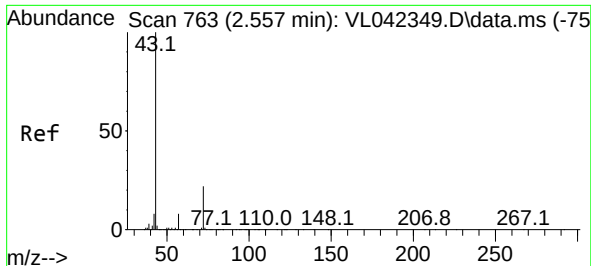
Tgt Ion: 97 Resp: 1734
Ion Ratio Lower Upper
97 100
99 133.4 51.0 76.4#
61 93.7 38.8 58.2#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 114 Resp: 350484
Ion Ratio Lower Upper
114 100
63 26.9 21.8 32.6
88 19.1 15.5 23.3

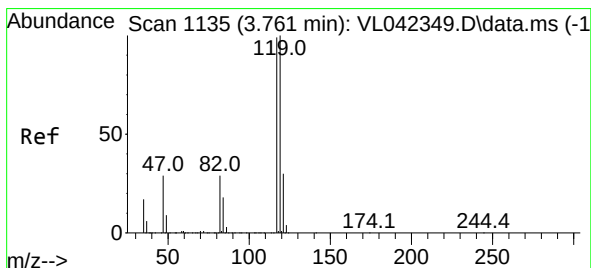
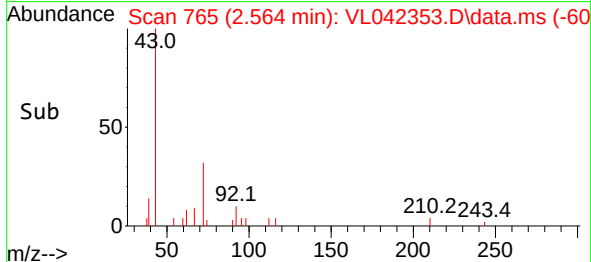
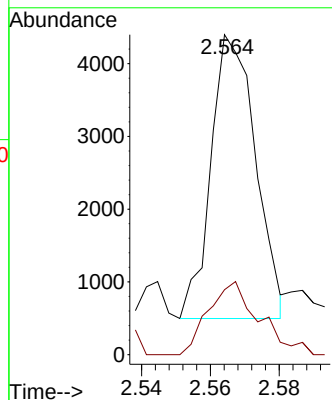
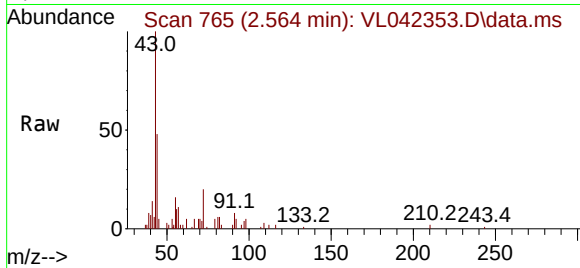




#34
2-Butanone
Concen: 0.126 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

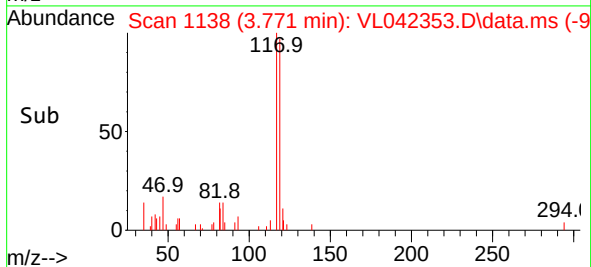
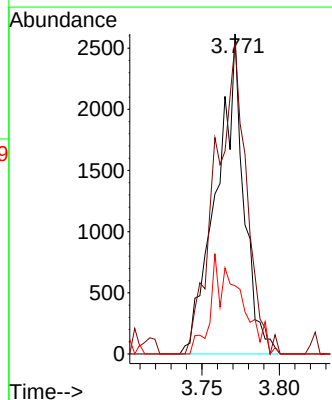
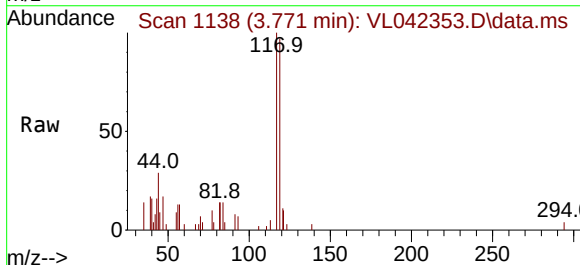
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

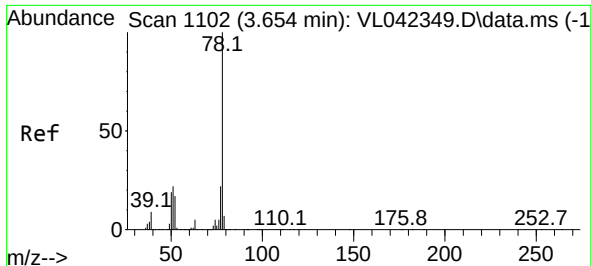
Tgt Ion: 43 Resp: 3506
Ion Ratio Lower Upper
43 100
72 32.7 18.2 27.2#



#35
Carbon Tetrachloride
Concen: 0.101 ppbv
RT: 3.771 min Scan# 1138
Delta R.T. 0.010 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 117 Resp: 3204
Ion Ratio Lower Upper
117 100
119 97.3 80.5 120.7
121 21.3 24.2 36.2#

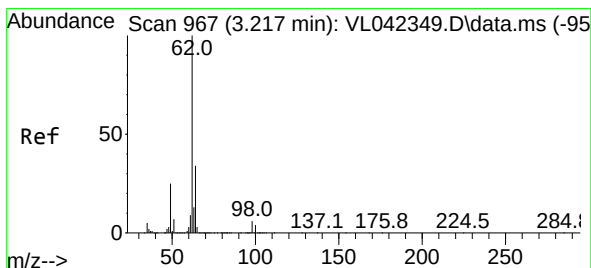
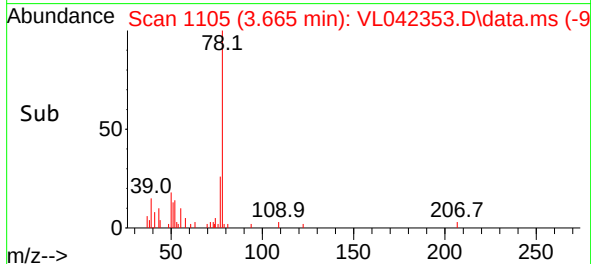
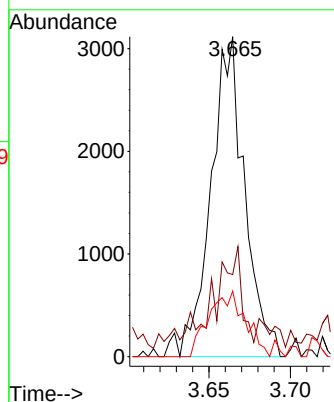
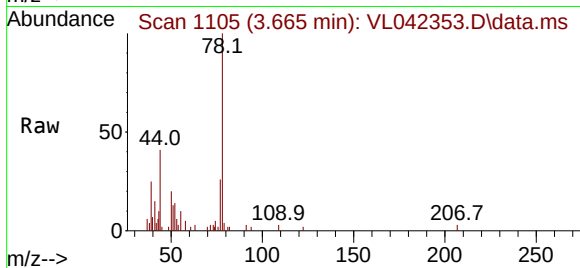




#36
Benzene
Concen: 0.117 ppbv
RT: 3.665 min Scan# 1105
Delta R.T. 0.010 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

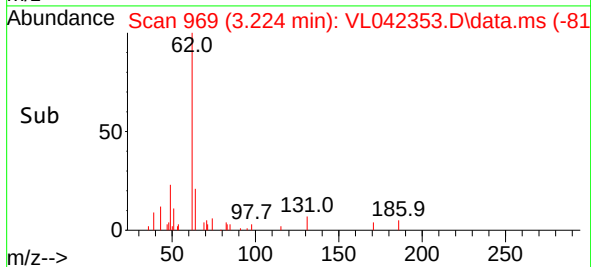
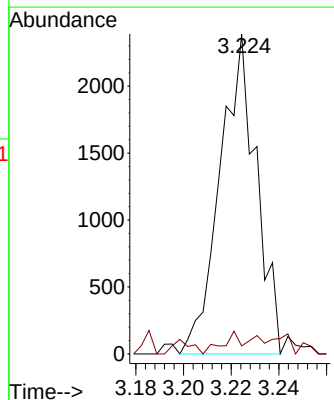
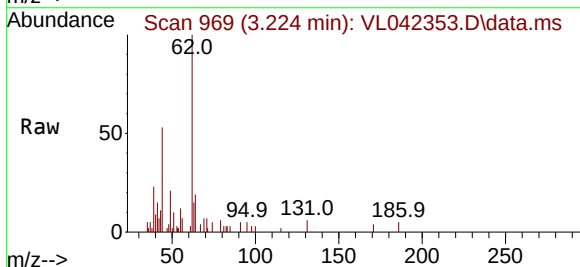
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

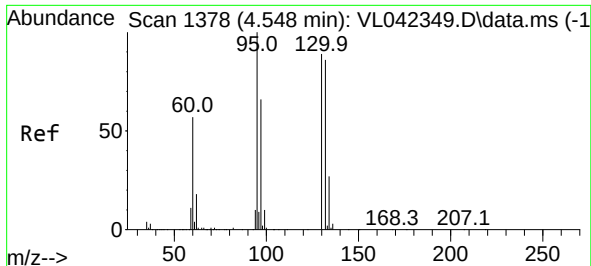
Tgt Ion: 78 Resp: 4424
Ion Ratio Lower Upper
78 100
77 20.4 17.4 26.0
50 20.5 15.5 23.3



#37
1,2-Dichloroethane
Concen: 0.111 ppbv
RT: 3.224 min Scan# 969
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 62 Resp: 2523
Ion Ratio Lower Upper
62 100
98 0.0 5.1 7.7#

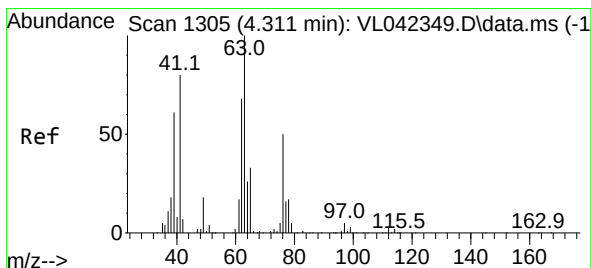
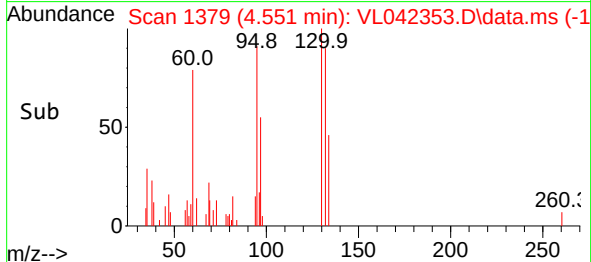
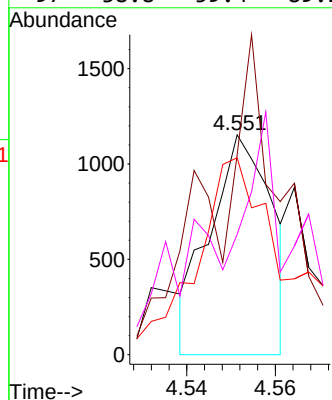
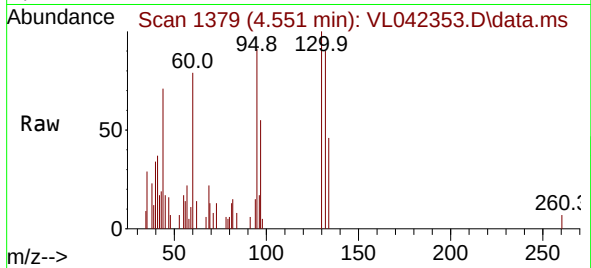




#38
 Trichloroethene
 Concen: 0.067 ppbv
 RT: 4.551 min Scan# 11
 Delta R.T. 0.004 min
 Lab File: VL042353.D
 Acq: 17 Apr 2025 11:50

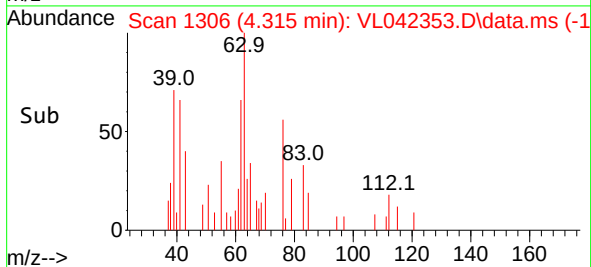
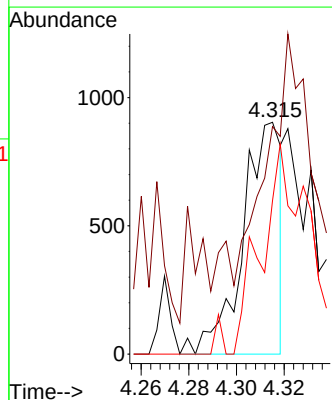
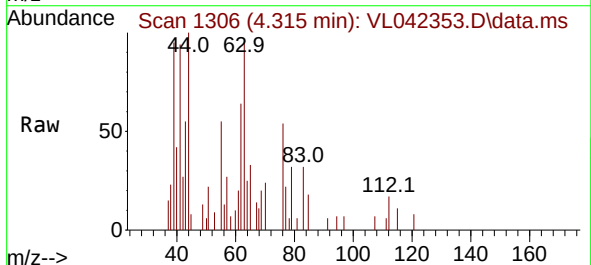
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

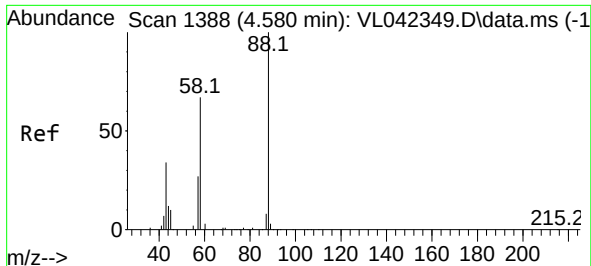
Tgt Ion:130 Resp: 1113
 Ion Ratio Lower Upper
 130 100
 95 60.4 89.8 134.6#
 132 78.4 77.7 116.5
 97 38.8 59.4 89.2#



#39
 1,2-Dichloropropane
 Concen: 0.071 ppbv
 RT: 4.315 min Scan# 1306
 Delta R.T. 0.004 min
 Lab File: VL042353.D
 Acq: 17 Apr 2025 11:50

Tgt Ion: 63 Resp: 1007
 Ion Ratio Lower Upper
 63 100
 41 84.8 64.2 96.2
 62 66.2 54.3 81.5



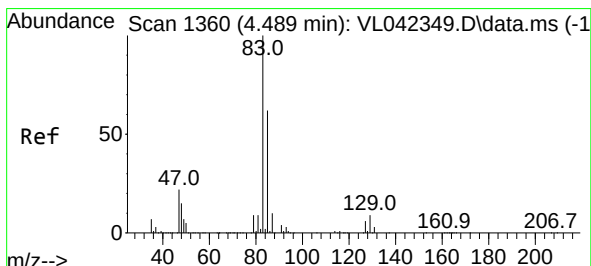
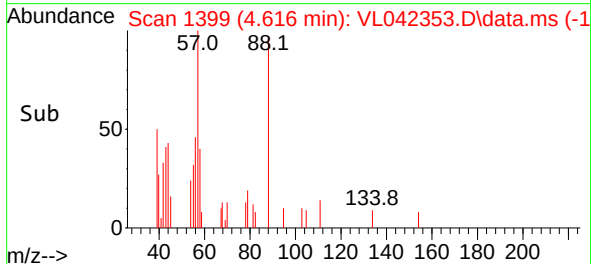
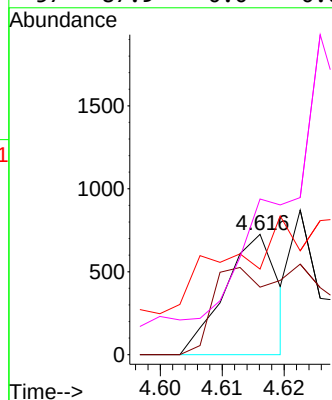
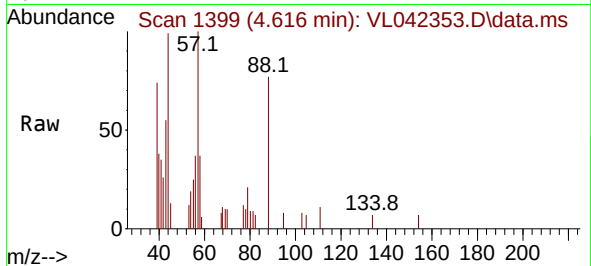


#40
1,4-Dioxane
Concen: 0.056 ppbv
RT: 4.616 min Scan# 1399
Delta R.T. 0.036 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

Tgt Ion: 88 Resp: 431

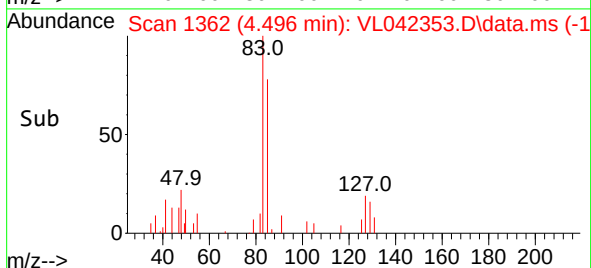
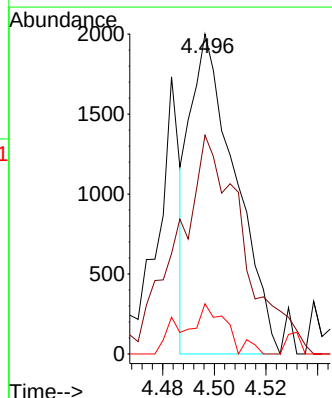
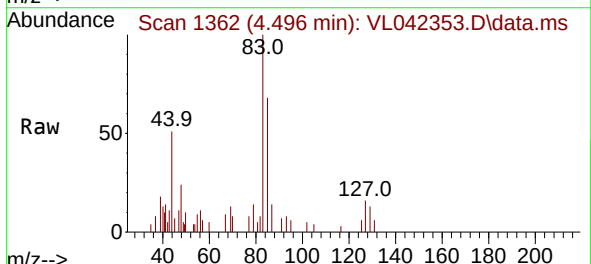
Ion	Ratio	Lower	Upper
88	100		
58	18.1	61.4	92.0#
43	247.6	23.2	34.8#
57	87.9	0.0	0.0#

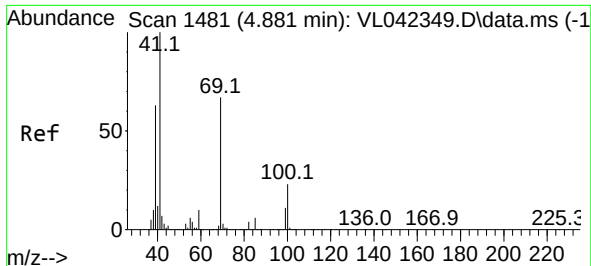


#42
Bromodichloromethane
Concen: 0.077 ppbv
RT: 4.496 min Scan# 1362
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 83 Resp: 2443

Ion	Ratio	Lower	Upper
83	100		
85	55.0	49.7	74.5
127	15.7	5.1	7.7#





#43

Methyl Methacrylate

Concen: 0.099 ppbv

RT: 4.894 min Scan# 1485

Delta R.T. 0.013 min

Lab File: VL042353.D

Acq: 17 Apr 2025 11:50

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

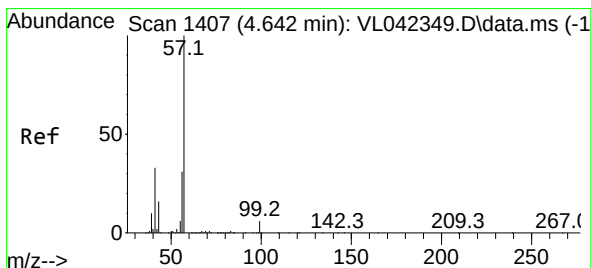
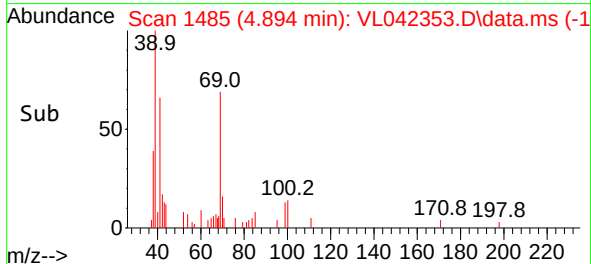
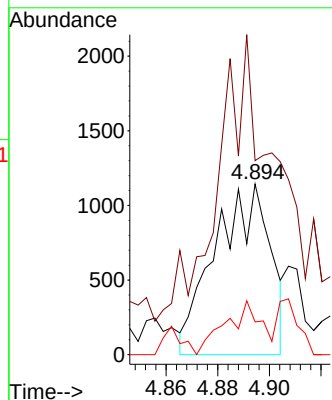
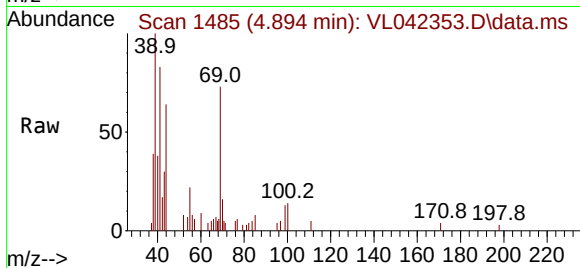
Tgt Ion: 69 Resp: 1683

Ion Ratio Lower Upper

69 100

41 192.5 118.6 177.8#

100 0.0 28.2 42.2#



#44

2,2,4-Trimethylpentane

Concen: 0.032 ppbv

RT: 4.648 min Scan# 1409

Delta R.T. 0.007 min

Lab File: VL042353.D

Acq: 17 Apr 2025 11:50

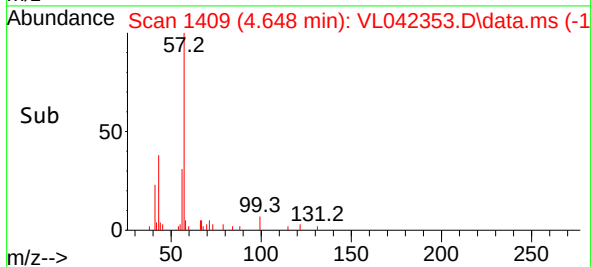
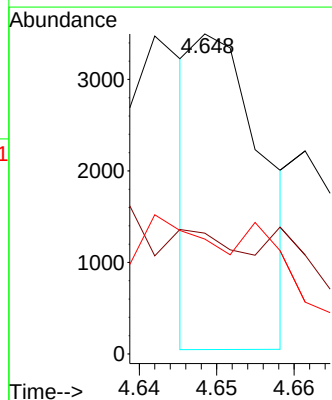
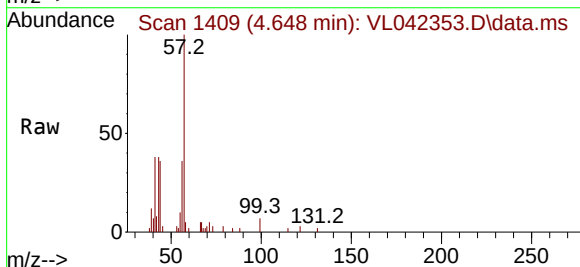
Tgt Ion: 57 Resp: 2115

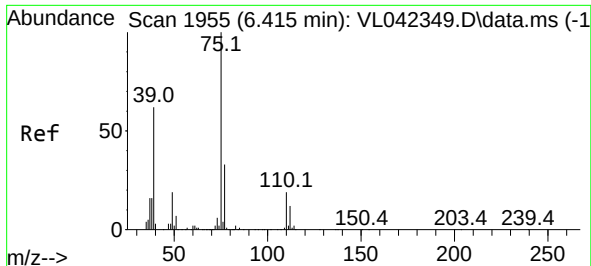
Ion Ratio Lower Upper

57 100

41 0.0 27.2 40.8#

56 0.0 25.7 38.5#





#45

t-1,3-Dichloropropene

Concen: 0.043 ppbv

RT: 6.429 min Scan# 1955

Delta R.T. 0.013 min

Lab File: VL042353.D

Acq: 17 Apr 2025 11:50

Instrument :

MSVOA_1

ClientSampleId :

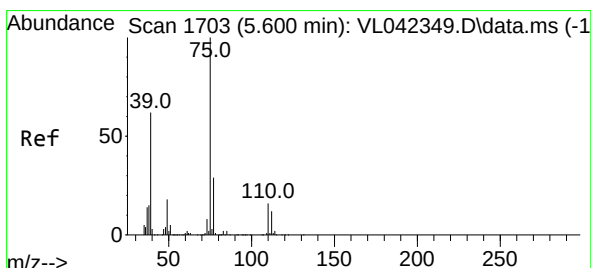
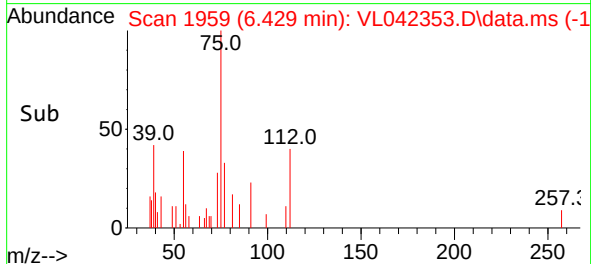
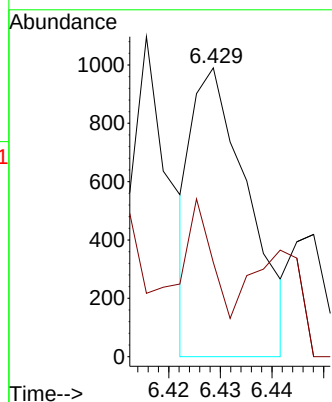
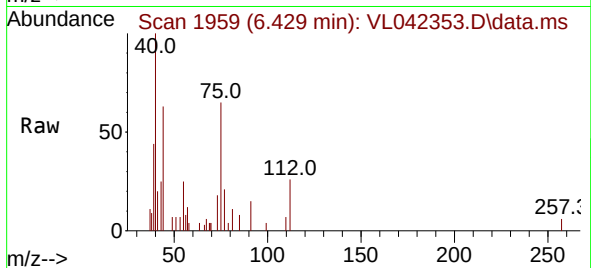
VSTDIC0.1

Tgt Ion: 75 Resp: 748

Ion Ratio Lower Upper

75 100

77 32.6 27.0 40.6



#46

cis-1,3-Dichloropropene

Concen: 0.048 ppbv

RT: 5.610 min Scan# 1706

Delta R.T. 0.010 min

Lab File: VL042353.D

Acq: 17 Apr 2025 11:50

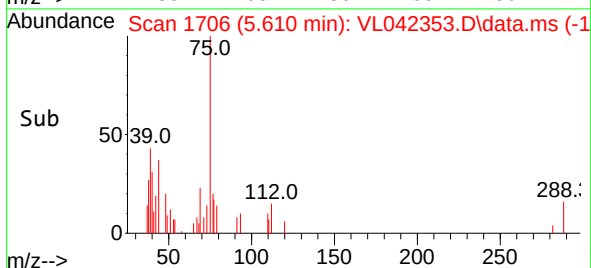
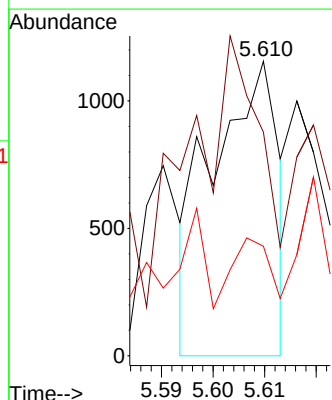
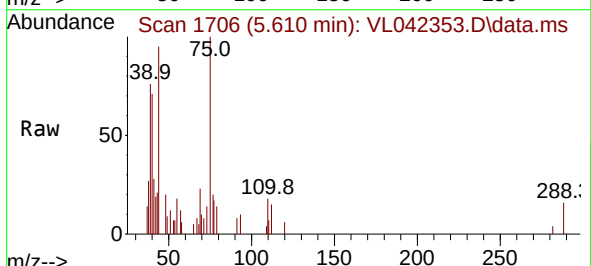
Tgt Ion: 75 Resp: 1032

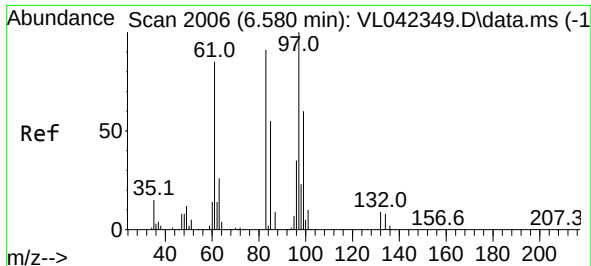
Ion Ratio Lower Upper

75 100

39 71.3 50.0 75.0

77 32.3 23.0 34.6





#47

1,1,2-Trichloroethane

Concen: 0.038 ppbv

RT: 6.584 min Scan# 2006

Delta R.T. 0.004 min

Lab File: VL042353.D

Acq: 17 Apr 2025 11:50

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

Tgt Ion: 97 Resp: 540

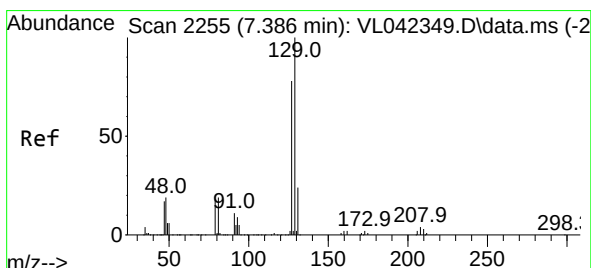
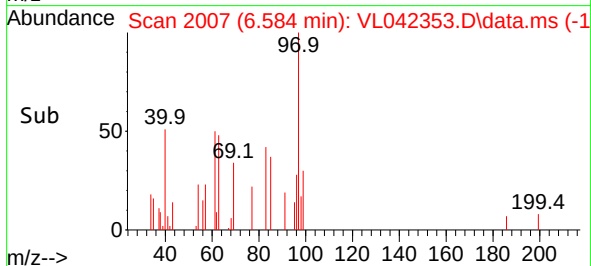
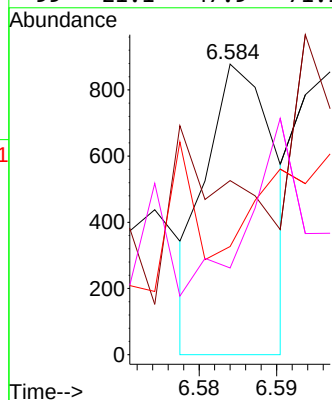
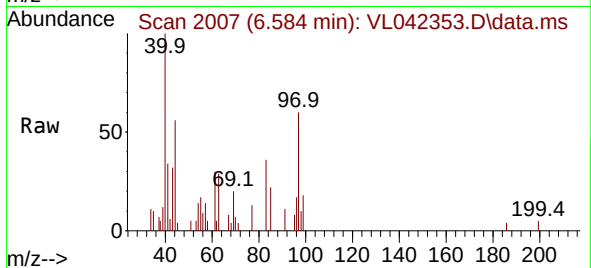
Ion Ratio Lower Upper

97 100

83 36.8 72.8 109.2#

85 0.0 44.2 66.4#

99 21.1 47.9 71.9#



#48

Dibromochloromethane

Concen: 0.045 ppbv

RT: 7.393 min Scan# 2257

Delta R.T. 0.007 min

Lab File: VL042353.D

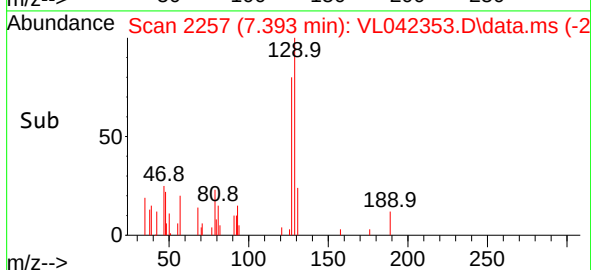
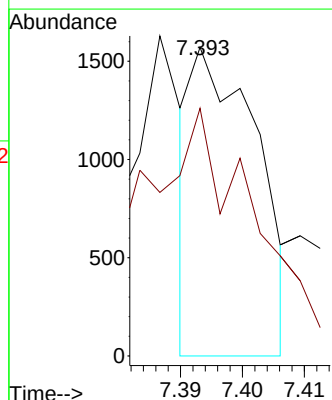
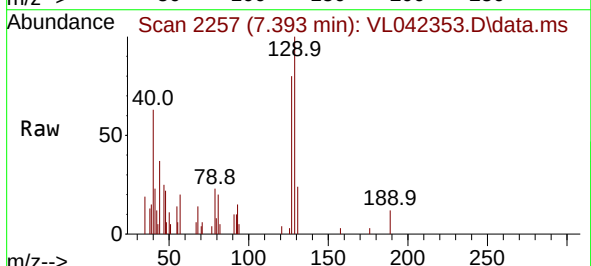
Acq: 17 Apr 2025 11:50

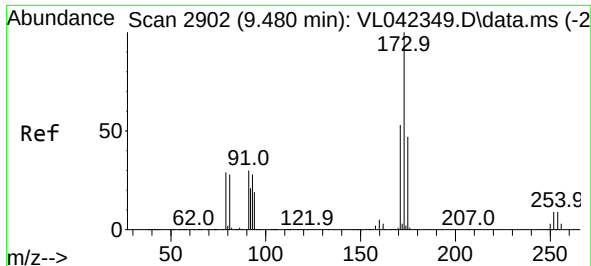
Tgt Ion: 129 Resp: 1149

Ion Ratio Lower Upper

129 100

127 167.2 39.1 117.3#

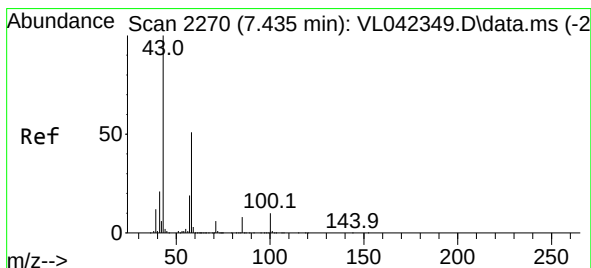
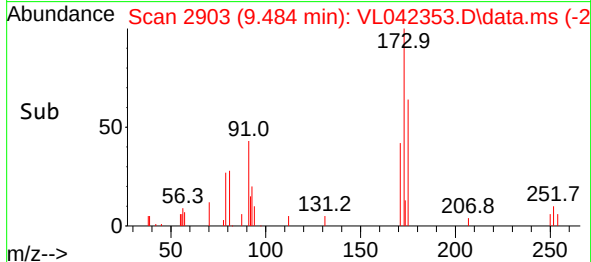
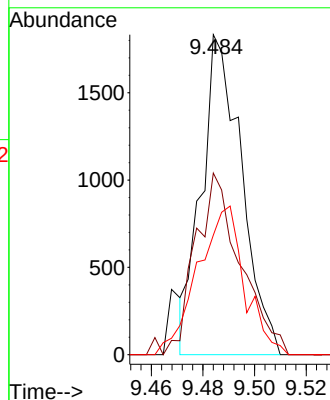
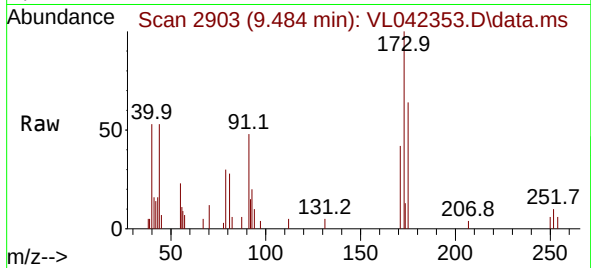




#49
Bromoform
Concen: 0.089 ppbv
RT: 9.484 min Scan# 2902
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

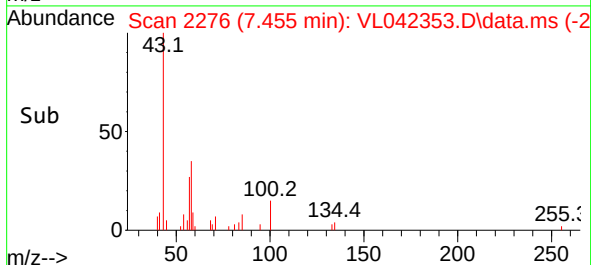
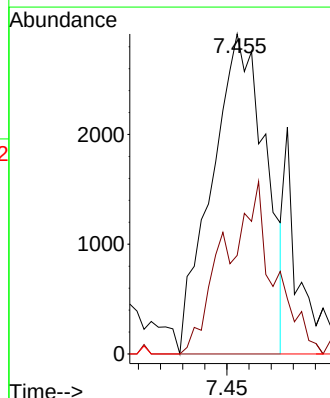
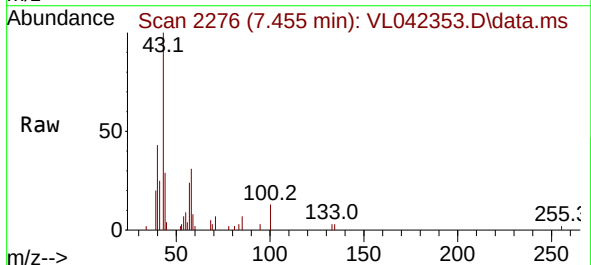
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

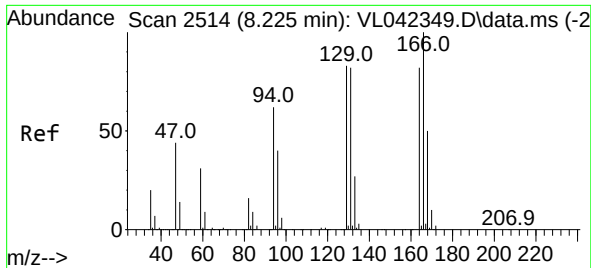
Tgt Ion:173 Resp: 1973
Ion Ratio Lower Upper
173 100
175 64.7 38.2 57.2#
171 54.2 40.9 61.3



#51
2-Hexanone
Concen: 0.118 ppbv
RT: 7.455 min Scan# 2276
Delta R.T. 0.020 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 43 Resp: 4915
Ion Ratio Lower Upper
43 100
58 49.9 40.2 60.4
98 0.0 0.1 0.1#

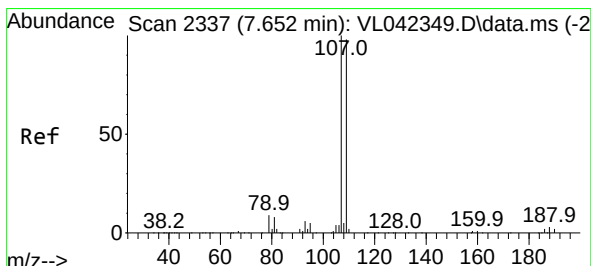
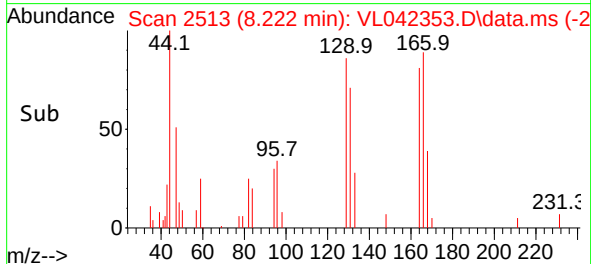
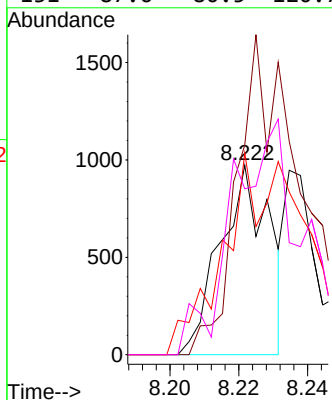
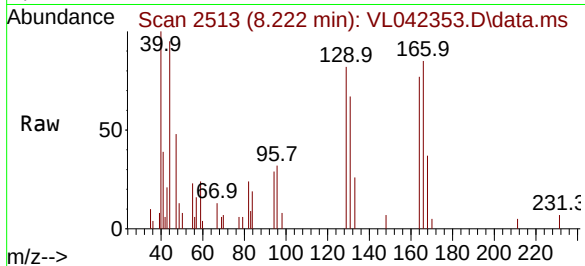




#52
Tetrachloroethene
Concen: 0.065 ppbv
RT: 8.222 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

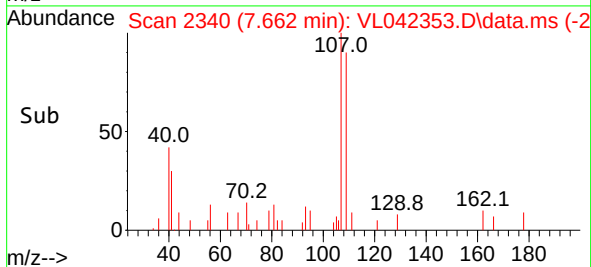
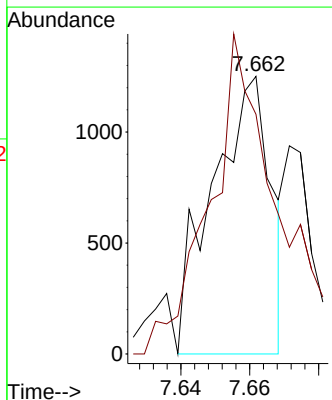
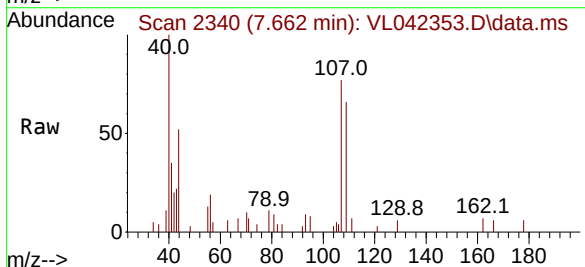
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

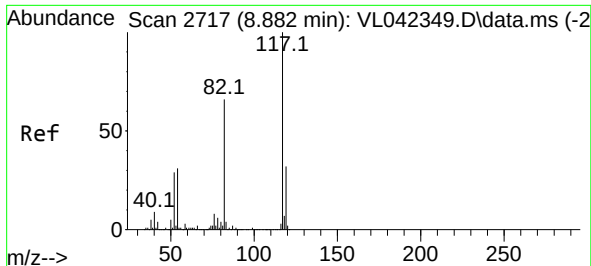
Tgt	Ion:164	Resp:	957
Ion	Ratio	Lower	Upper
164	100		
166	110.6	98.2	147.2
129	88.3	81.8	122.8
131	87.6	80.5	120.7



#54
1,2-Dibromoethane
Concen: 0.072 ppbv
RT: 7.662 min Scan# 2340
Delta R.T. 0.010 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion:107	Resp:	1470	
Ion	Ratio	Lower	Upper
107	100		
109	72.7	78.2	117.4#

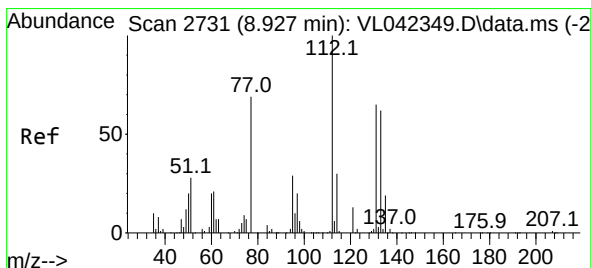
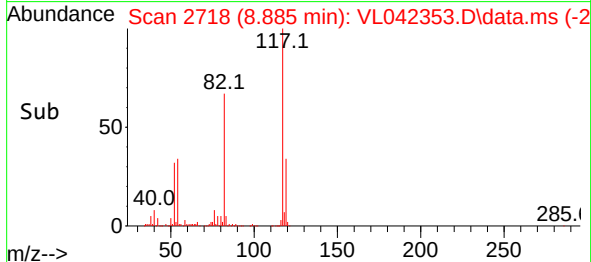
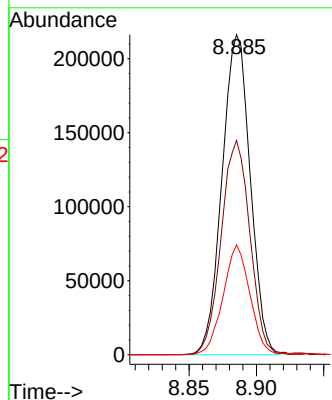
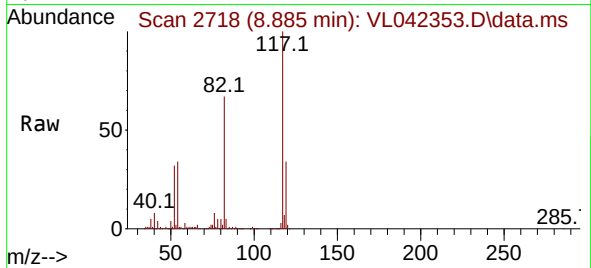




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2717
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

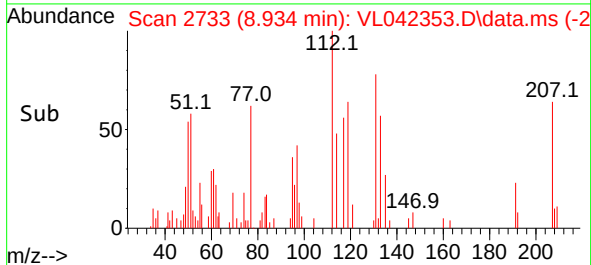
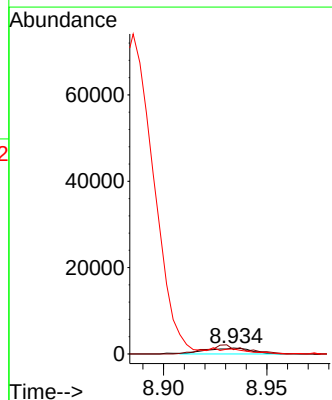
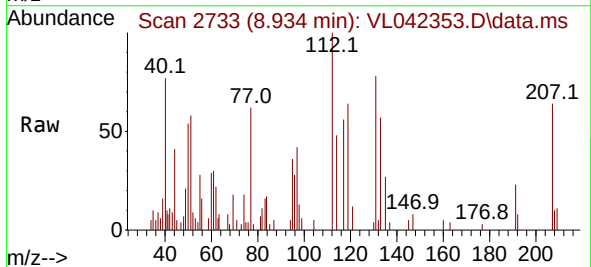
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

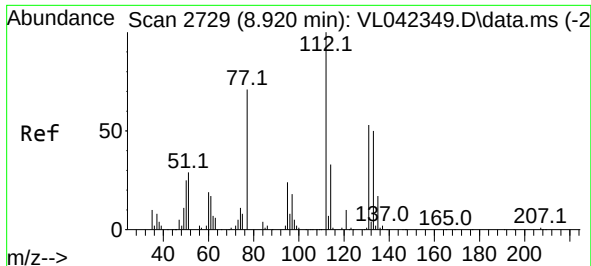
Tgt Ion:117 Resp: 315004
Ion Ratio Lower Upper
117 100
82 68.1 57.8 86.6
119 33.0 25.2 37.8



#56
1,1,1,2-Tetrachloroethane
Concen: 0.107 ppbv
RT: 8.934 min Scan# 2733
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion:131 Resp: 2031
Ion Ratio Lower Upper
131 100
133 134.2 78.3 117.5#
119 0.0 48.7 73.1#

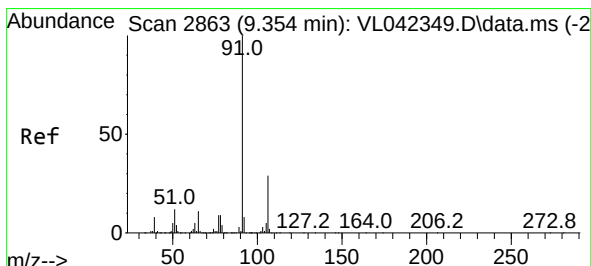
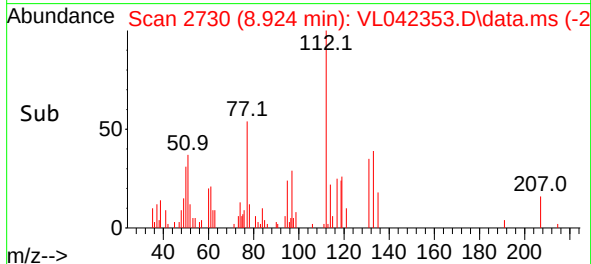
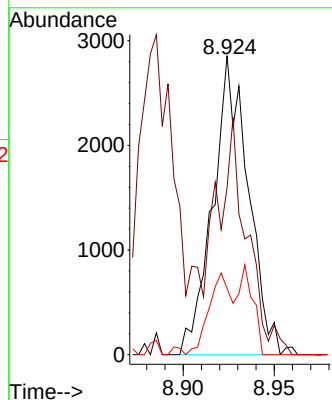
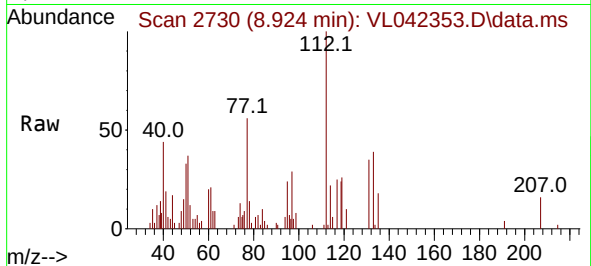




#57
Chlorobenzene
Concen: 0.117 ppbv
RT: 8.924 min Scan# 21
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

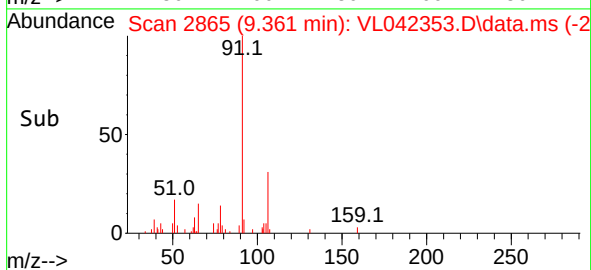
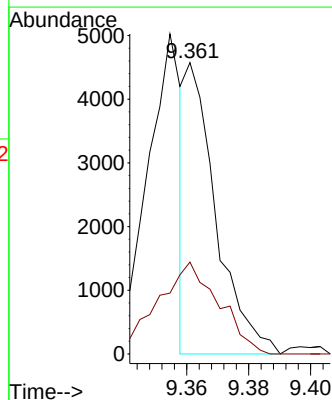
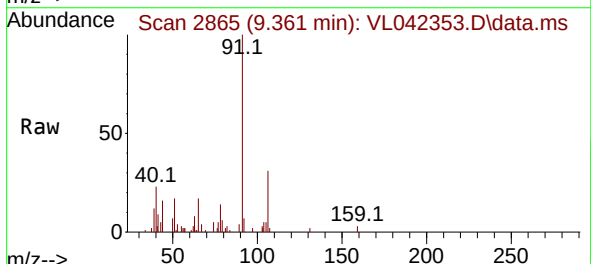
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

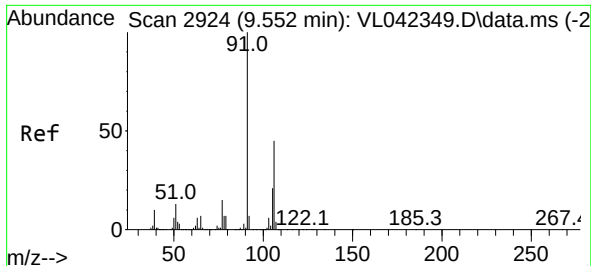
Tgt Ion:112 Resp: 3842
Ion Ratio Lower Upper
112 100
77 50.6 57.8 86.6#
114 22.1 29.3 35.9#



#58
Ethyl Benzene
Concen: 0.050 ppbv
RT: 9.361 min Scan# 2865
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 91 Resp: 3105
Ion Ratio Lower Upper
91 100
106 31.5 23.0 34.4





#59

m/p-Xylene

Concen: 0.096 ppbv

RT: 9.552 min Scan# 2924

Delta R.T. 0.000 min

Lab File: VL042353.D

Acq: 17 Apr 2025 11:50

Instrument :

MSVOA_1

ClientSampleId :

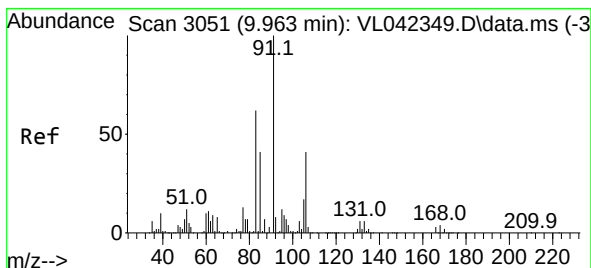
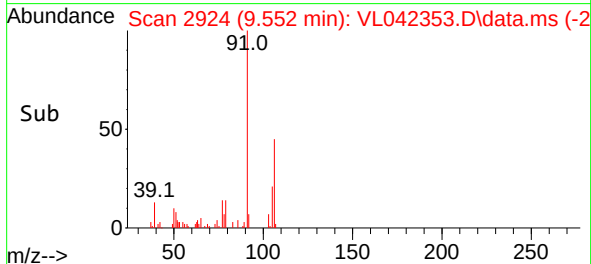
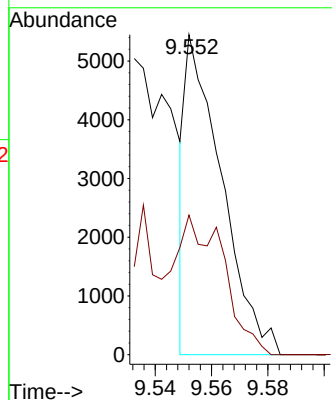
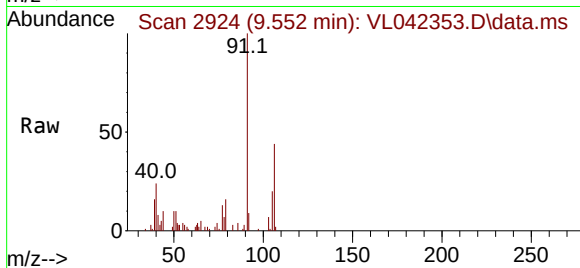
VSTDIC0.1

Tgt Ion: 91 Resp: 4844

Ion Ratio Lower Upper

91 100

106 0.0 35.4 53.2#



#60

o-Xylene

Concen: 0.106 ppbv

RT: 9.970 min Scan# 3053

Delta R.T. 0.007 min

Lab File: VL042353.D

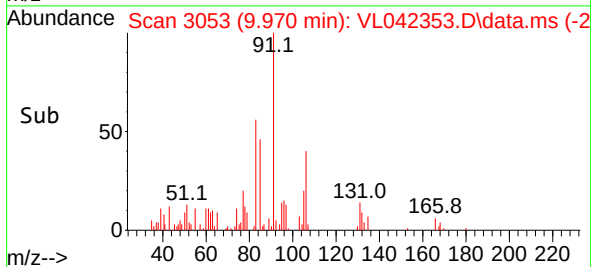
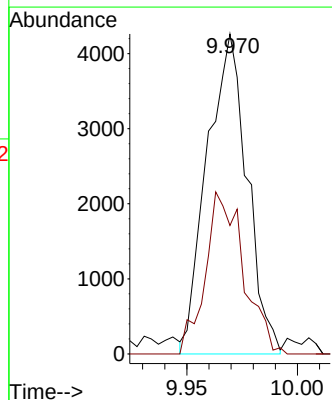
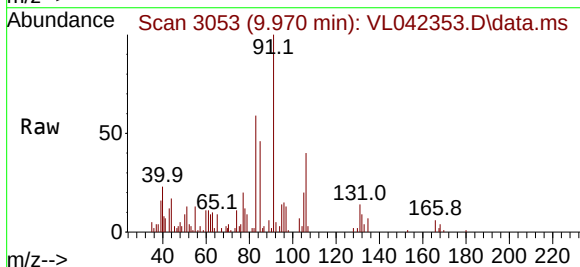
Acq: 17 Apr 2025 11:50

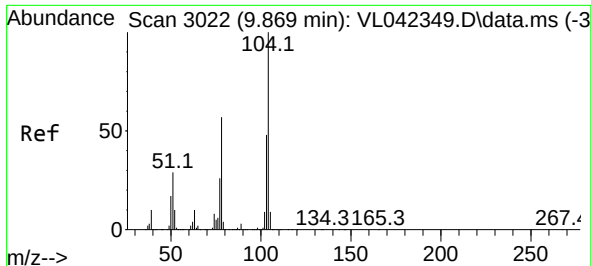
Tgt Ion: 91 Resp: 5359

Ion Ratio Lower Upper

91 100

106 48.3 21.1 63.4

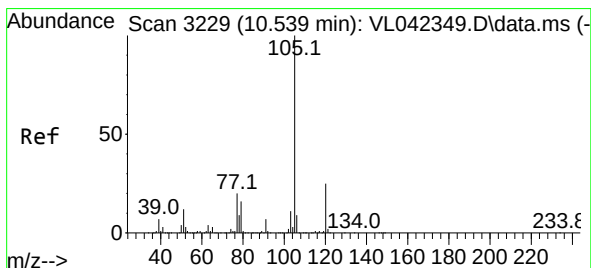
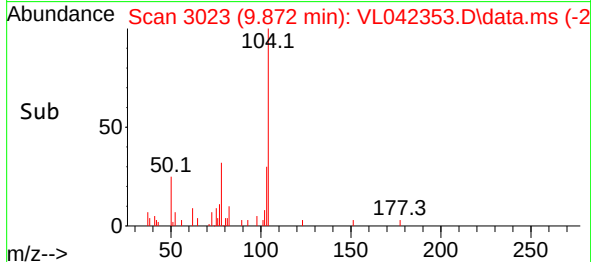
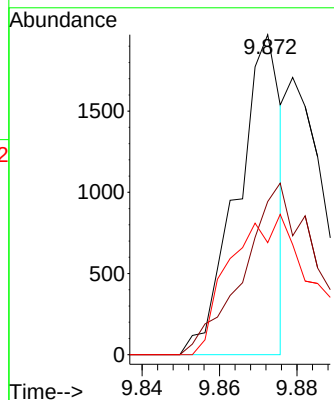
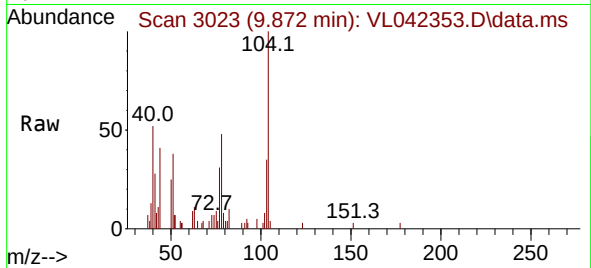




#61
Styrene
Concen: 0.064 ppbv
RT: 9.872 min Scan# 3023
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

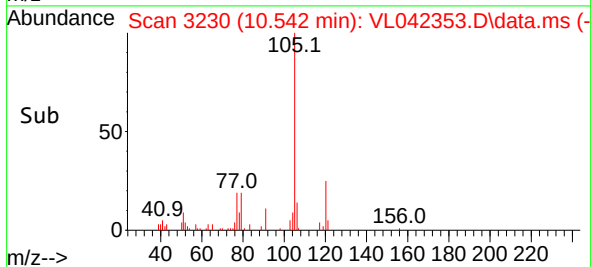
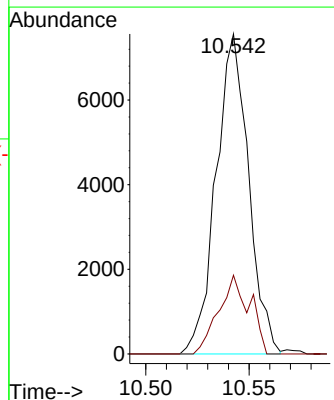
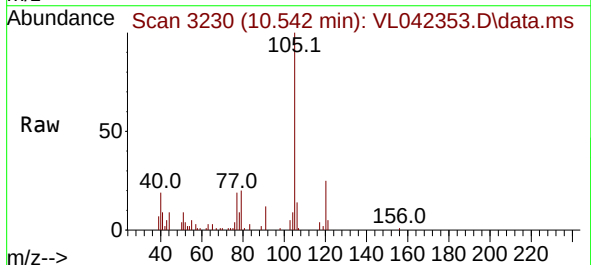
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

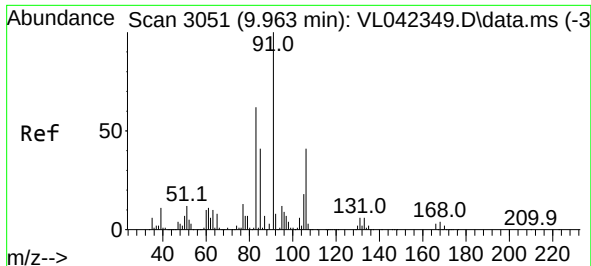
Tgt Ion:104 Resp: 1549
Ion Ratio Lower Upper
104 100
78 0.0 44.6 66.8#
103 0.0 37.4 56.0#



#62
Isopropylbenzene
Concen: 0.111 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion:105 Resp: 8285
Ion Ratio Lower Upper
105 100
120 23.5 19.8 29.8

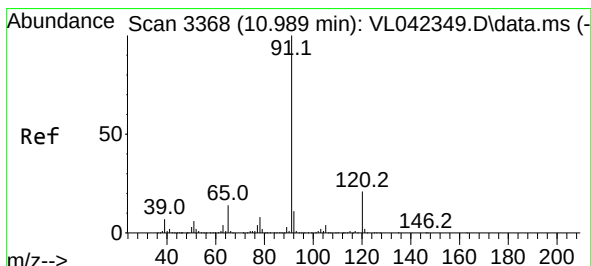
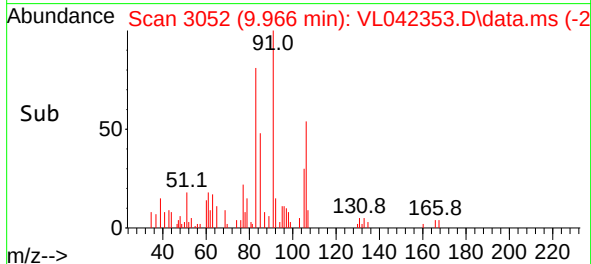
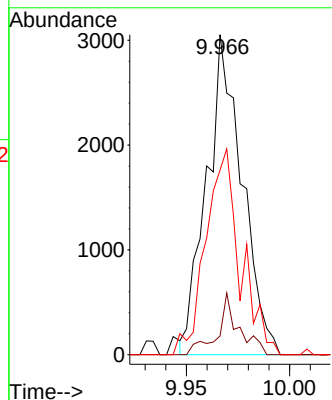
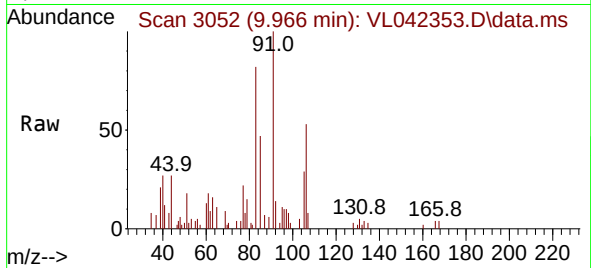




#63
1,1,2,2-Tetrachloroethane
Concen: 0.111 ppbv
RT: 9.966 min Scan# 3051
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

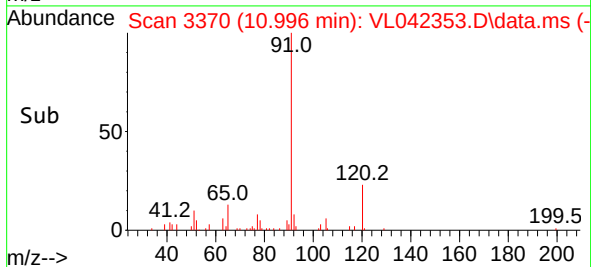
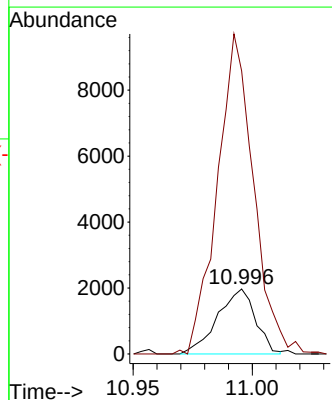
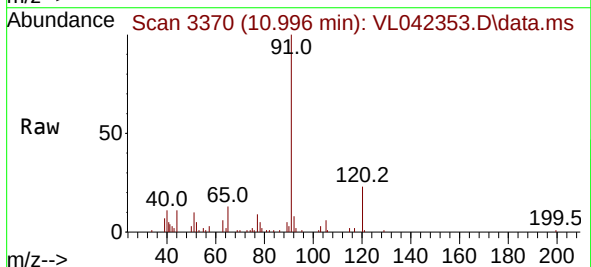
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

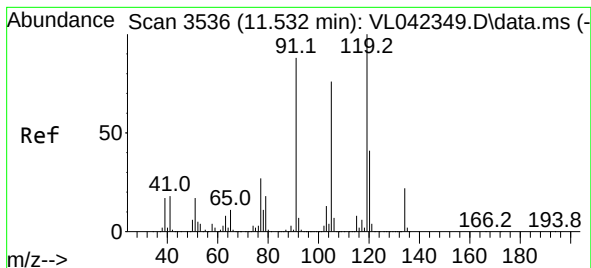
Tgt Ion: 83 Resp: 3646
Ion Ratio Lower Upper
83 100
131 11.4 4.5 13.7
85 62.7 32.4 97.0



#64
n-propylbenzene
Concen: 0.117 ppbv
RT: 10.996 min Scan# 3370
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 120 Resp: 2186
Ion Ratio Lower Upper
120 100
91 471.4 392.4 588.6





#65

tert-Butylbenzene

Concen: 0.127 ppbv

RT: 11.536 min Scan# 3536

Delta R.T. 0.004 min

Lab File: VL042353.D

Acq: 17 Apr 2025 11:50

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

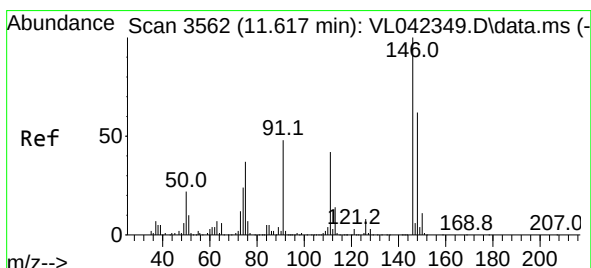
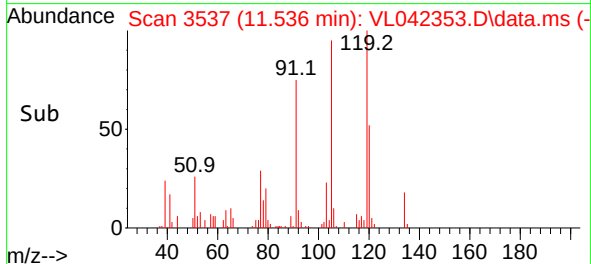
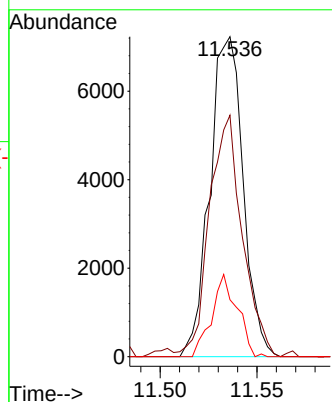
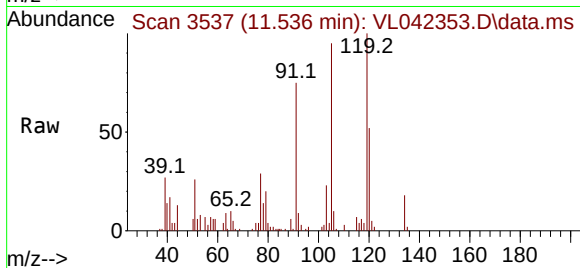
Tgt Ion:119 Resp: 8656

Ion Ratio Lower Upper

119 100

91 77.2 74.6 111.8

134 19.6 18.8 28.2



#66

Benzyl Chloride

Concen: 0.055 ppbv

RT: 11.617 min Scan# 3562

Delta R.T. 0.000 min

Lab File: VL042353.D

Acq: 17 Apr 2025 11:50

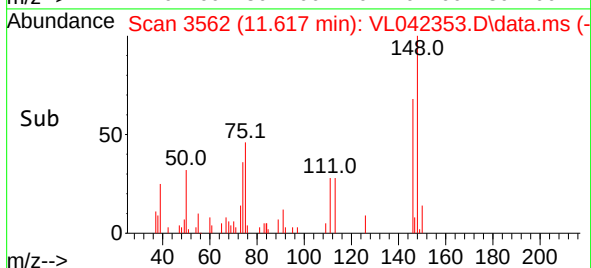
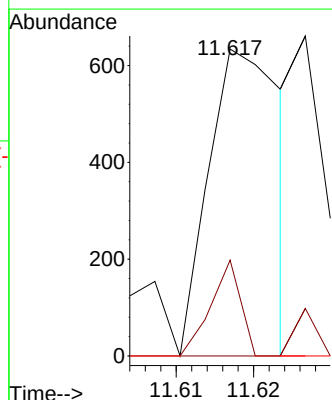
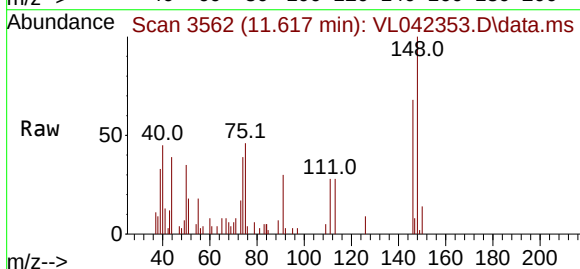
Tgt Ion: 91 Resp: 414

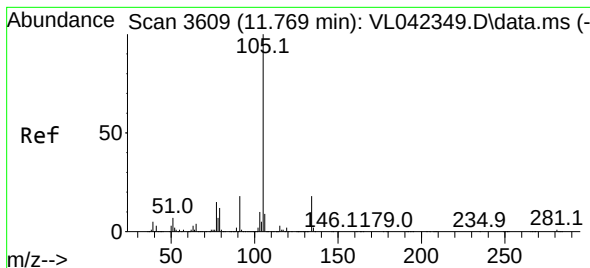
Ion Ratio Lower Upper

91 100

126 23.2 11.8 17.6#

128 0.0 4.5 6.7#





#67

sec-Butylbenzene

Concen: 0.117 ppbv

RT: 11.769 min Scan# 3

Delta R.T. 0.000 min

Lab File: VL042353.D

Acq: 17 Apr 2025 11:50

Instrument :

MSVOA_1

ClientSampleId :

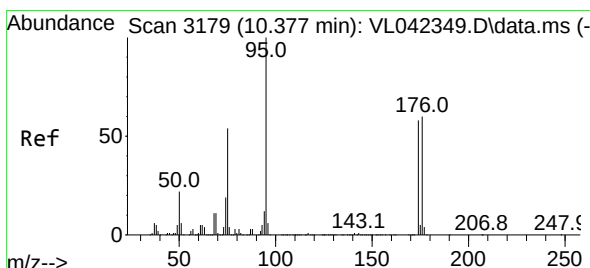
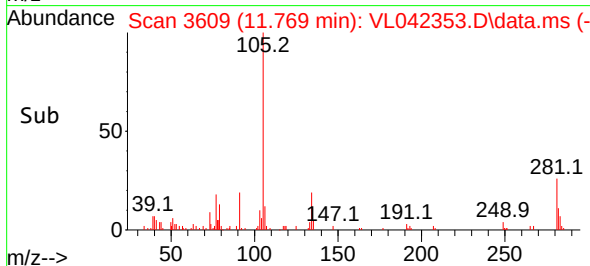
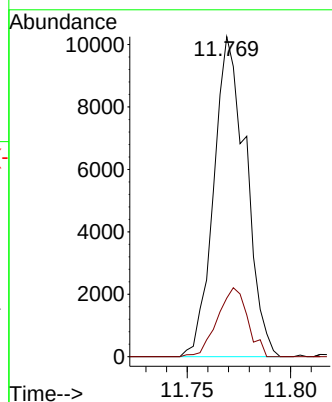
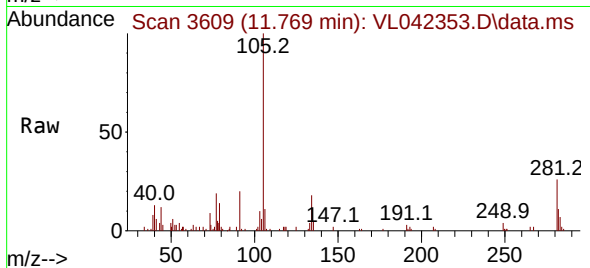
VSTDIC0.1

Tgt Ion:105 Resp: 11126

Ion Ratio Lower Upper

105 100

134 20.2 14.6 21.8



#68

1-Bromo-4-Fluorobenzene

Concen: 9.906 ppbv

RT: 10.381 min Scan# 3180

Delta R.T. 0.004 min

Lab File: VL042353.D

Acq: 17 Apr 2025 11:50

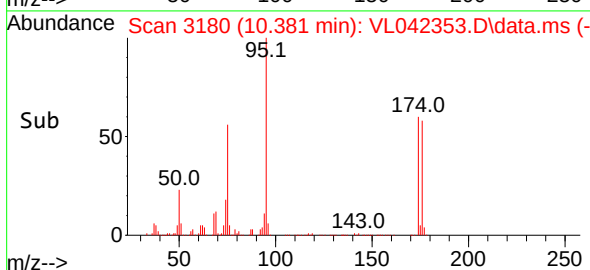
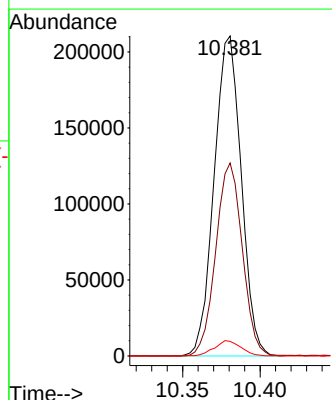
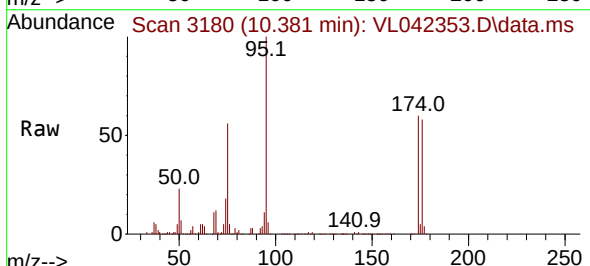
Tgt Ion: 95 Resp: 256417

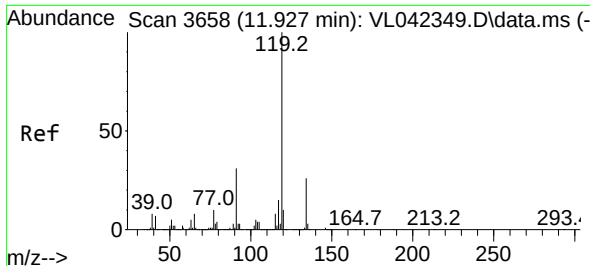
Ion Ratio Lower Upper

95 100

174 59.3 48.5 72.7

175 4.7 3.7 5.5

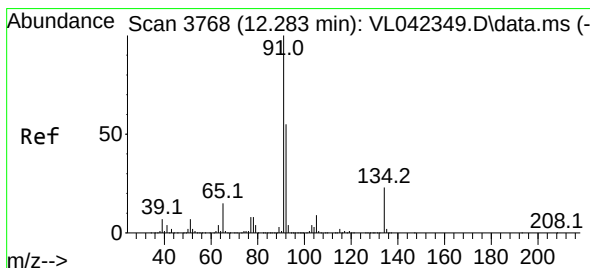
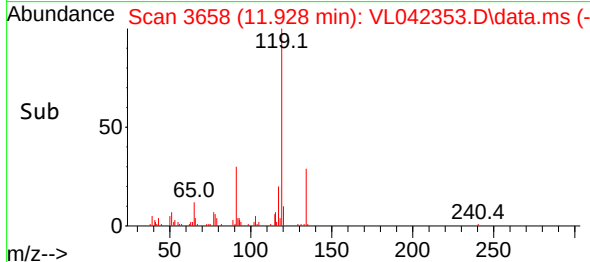
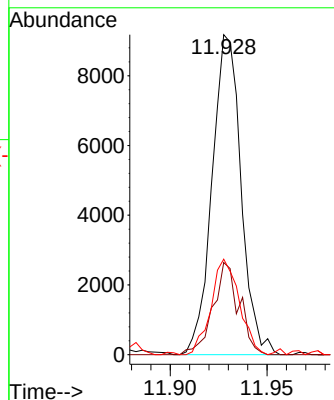
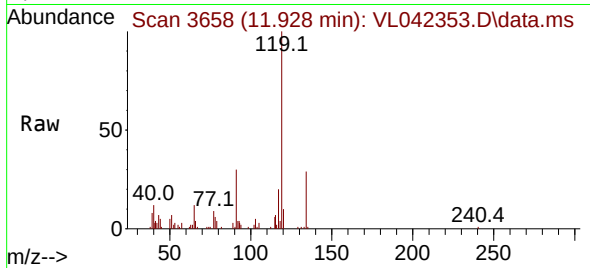




#69
 p-Isopropyltoluene
 Concen: 0.115 ppbv
 RT: 11.928 min Scan# 3658
 Delta R.T. 0.000 min
 Lab File: VL042353.D
 Acq: 17 Apr 2025 11:50

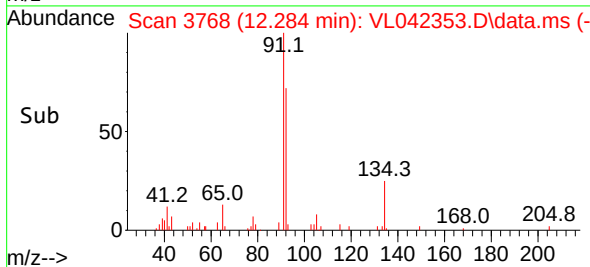
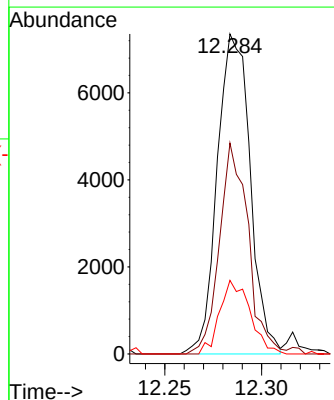
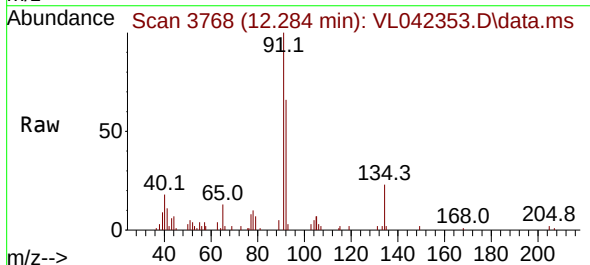
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

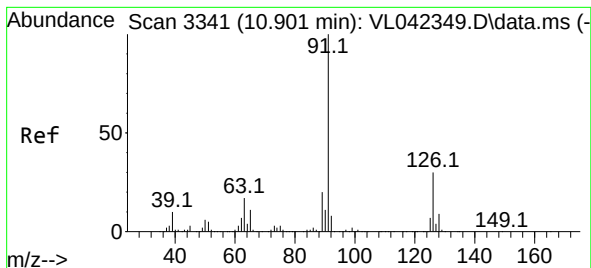
Tgt Ion:119 Resp: 9534
 Ion Ratio Lower Upper
 119 100
 134 26.0 20.0 30.0
 91 31.6 24.4 36.6



#70
 n-Butylbenzene
 Concen: 0.101 ppbv
 RT: 12.284 min Scan# 3768
 Delta R.T. 0.000 min
 Lab File: VL042353.D
 Acq: 17 Apr 2025 11:50

Tgt Ion: 91 Resp: 8684
 Ion Ratio Lower Upper
 91 100
 92 58.0 44.2 66.4
 134 21.3 18.2 27.4





#71

2-Chlorotoluene

Concen: 0.115 ppbv

RT: 10.905 min Scan# 31

Delta R.T. 0.004 min

Lab File: VL042353.D

Acq: 17 Apr 2025 11:50

Instrument :

MSVOA_1

ClientSampleId :

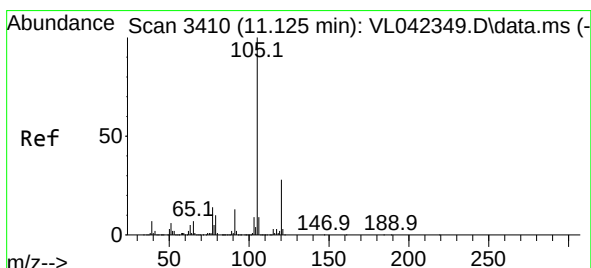
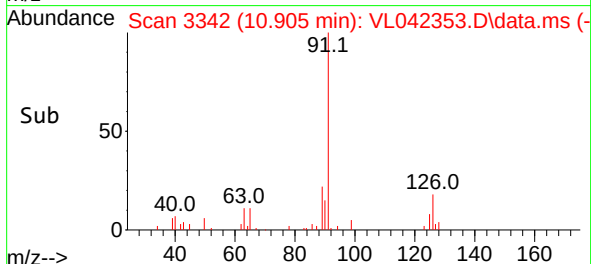
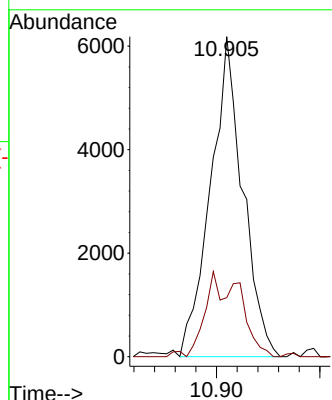
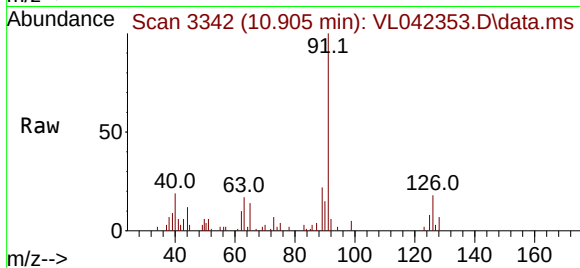
VSTDIC0.1

Tgt Ion: 91 Resp: 6703

Ion Ratio Lower Upper

91 100

126 29.2 11.4 45.4



#72

4-Ethyltoluene

Concen: 0.104 ppbv

RT: 11.128 min Scan# 3411

Delta R.T. 0.004 min

Lab File: VL042353.D

Acq: 17 Apr 2025 11:50

Tgt Ion: 105 Resp: 6463

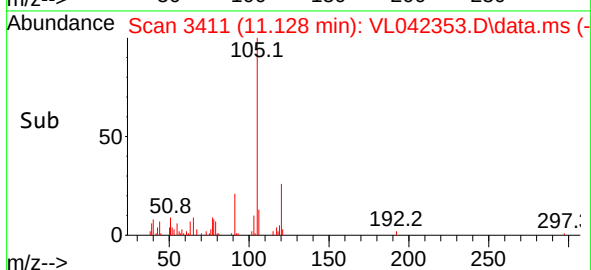
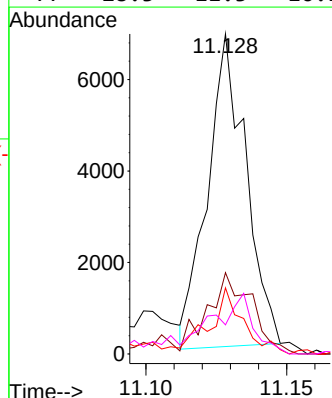
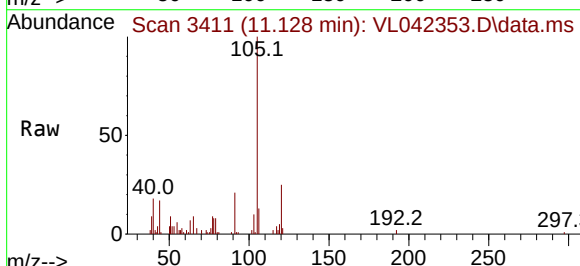
Ion Ratio Lower Upper

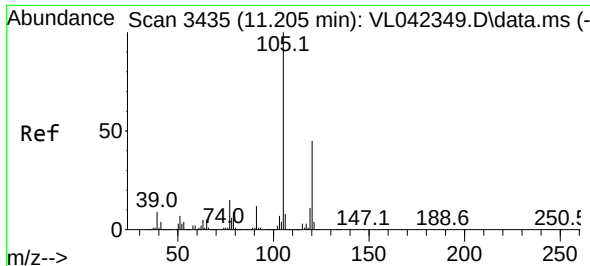
105 100

120 34.1 23.2 34.8

91 24.5 10.4 15.6#

77 28.3 11.3 16.9#

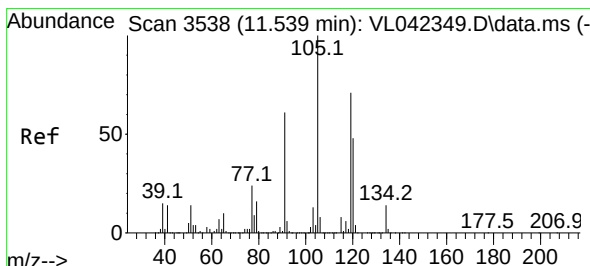
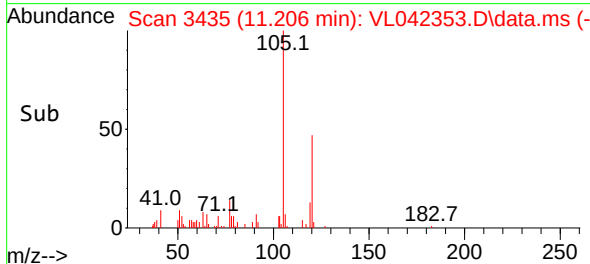
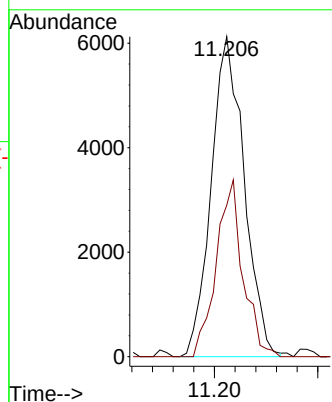
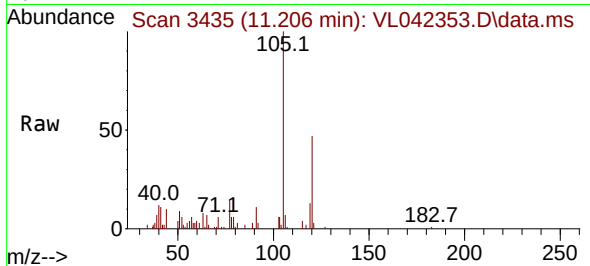




#73
 1,3,5-Trimethylbenzene
 Concen: 0.124 ppbv
 RT: 11.206 min Scan# 3435
 Delta R.T. 0.000 min
 Lab File: VL042353.D
 Acq: 17 Apr 2025 11:50

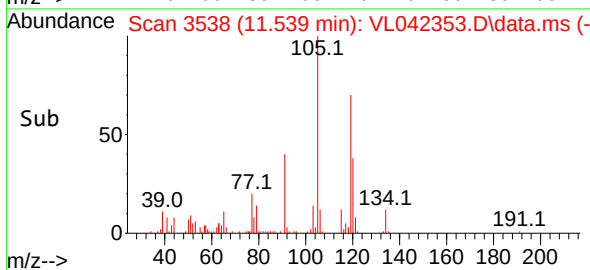
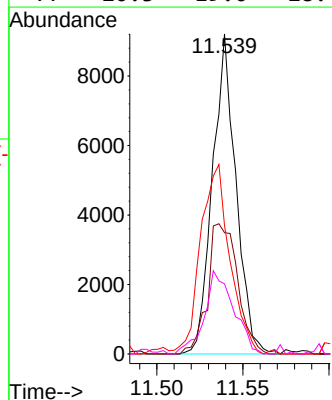
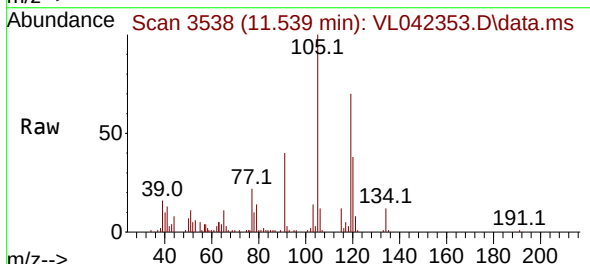
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

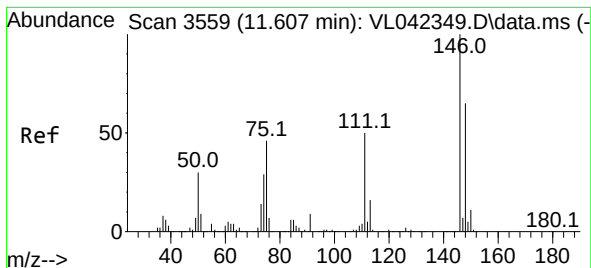
Tgt Ion:105 Resp: 6797
 Ion Ratio Lower Upper
 105 100
 120 47.4 35.6 53.4



#74
 1,2,4-Trimethylbenzene
 Concen: 0.137 ppbv
 RT: 11.539 min Scan# 3538
 Delta R.T. 0.000 min
 Lab File: VL042353.D
 Acq: 17 Apr 2025 11:50

Tgt Ion:105 Resp: 8745
 Ion Ratio Lower Upper
 105 100
 120 37.9 38.1 57.1#
 91 40.1 48.8 73.2#
 77 20.3 19.0 28.4





#75

1,3-Dichlorobenzene

Concen: 0.098 ppbv

RT: 11.610 min Scan# 3560

Delta R.T. 0.004 min

Lab File: VL042353.D

Acq: 17 Apr 2025 11:50

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

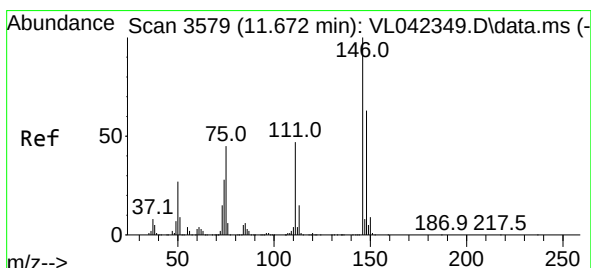
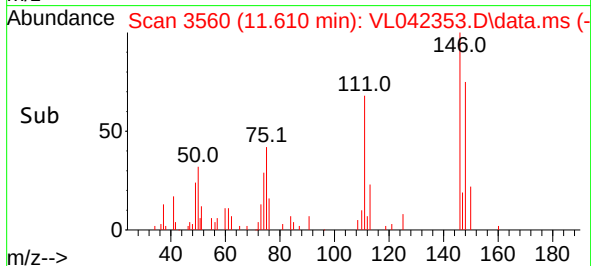
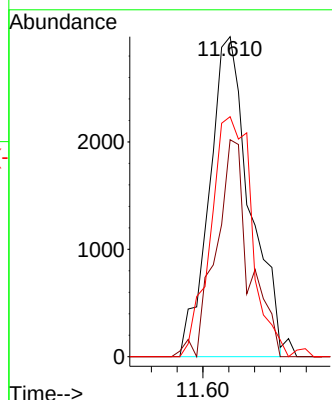
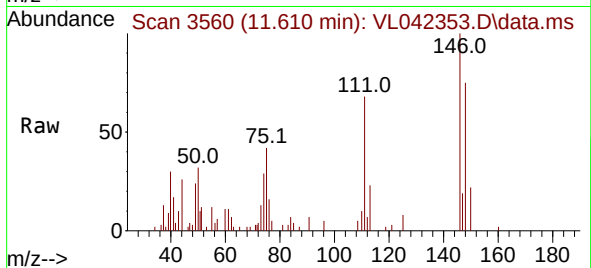
Tgt Ion:146 Resp: 3258

Ion Ratio Lower Upper

146 100

111 55.9 24.3 72.8

148 77.0 31.6 94.8



#76

1,4-Dichlorobenzene

Concen: 0.101 ppbv

RT: 11.678 min Scan# 3581

Delta R.T. 0.007 min

Lab File: VL042353.D

Acq: 17 Apr 2025 11:50

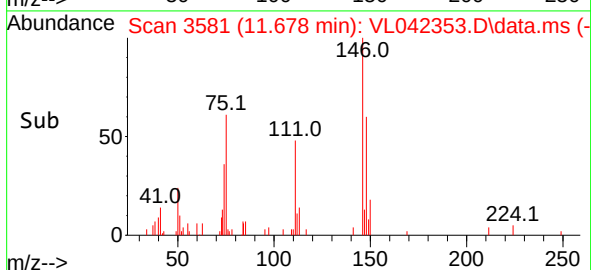
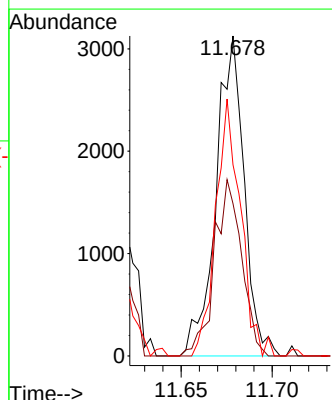
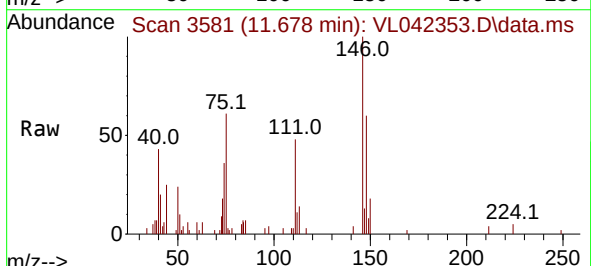
Tgt Ion:146 Resp: 3366

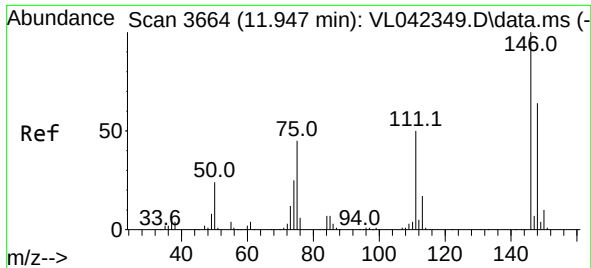
Ion Ratio Lower Upper

146 100

111 53.5 24.2 72.6

148 71.3 32.1 96.5

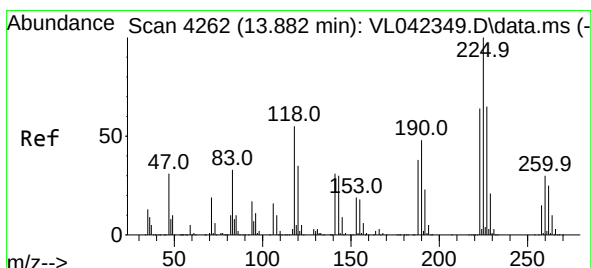
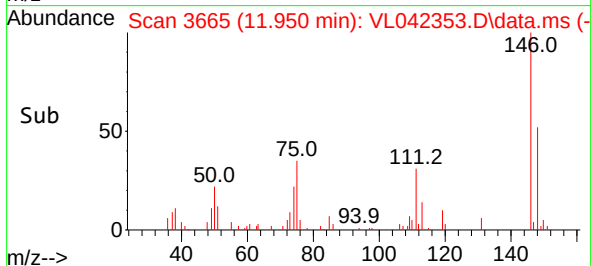
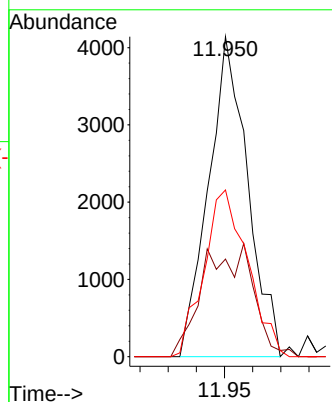
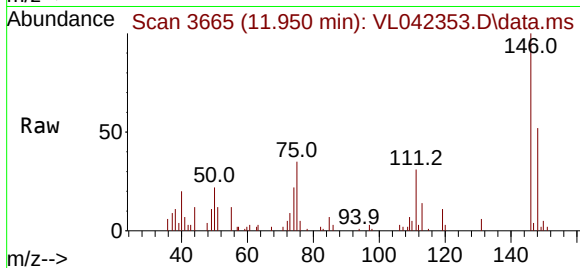




#77
1,2-Dichlorobenzene
Concen: 0.124 ppbv
RT: 11.950 min Scan# 3665
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

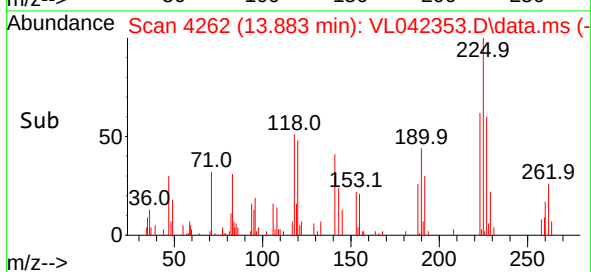
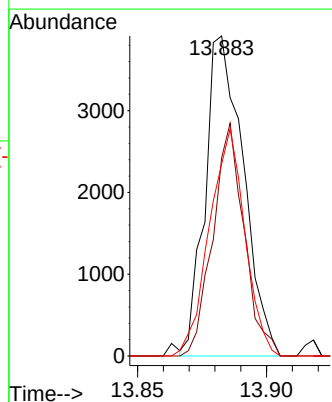
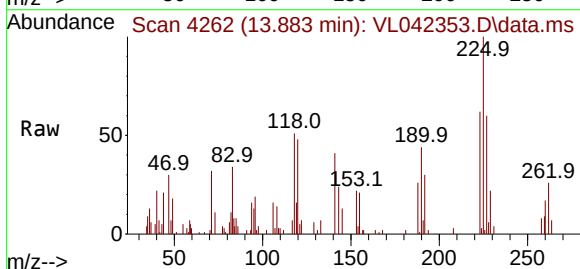
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

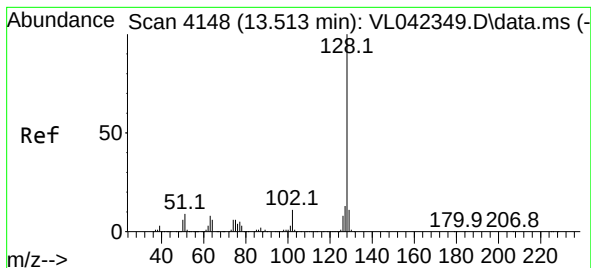
Tgt Ion:146	Resp:	3996
Ion	Ratio	Lower Upper
146	100	
111	45.1	25.3 75.9
148	58.1	31.5 94.5



#78
Hexachloro-1,3-Butadiene
Concen: 0.124 ppbv
RT: 13.883 min Scan# 4262
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion:225	Resp:	4030
Ion	Ratio	Lower Upper
225	100	
223	59.5	50.3 75.5
227	65.9	51.5 77.3





#79

Naphthalene

Concen: 0.100 ppbv

RT: 13.517 min Scan# 4148

Delta R.T. 0.004 min

Lab File: VL042353.D

Acq: 17 Apr 2025 11:50

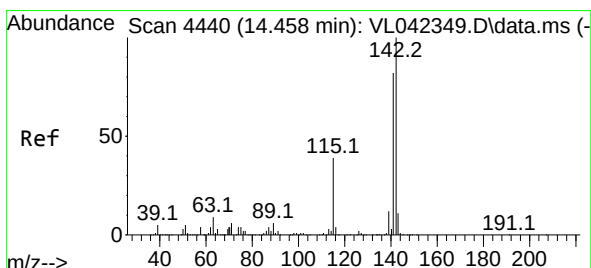
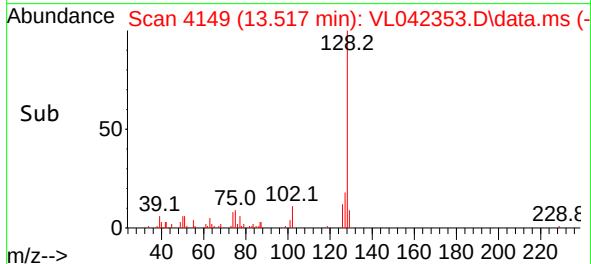
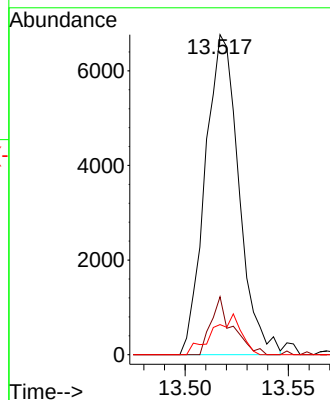
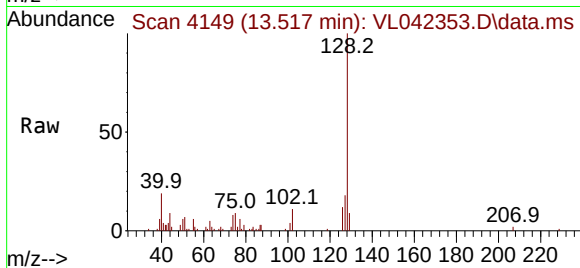
Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

Tgt Ion:128	Resp:	7664
Ion Ratio	Lower	Upper
128	100	
127	18.1	10.6 15.8#
129	9.4	8.6 12.8



#80

Naphthalene,2-methyl-

Concen: 0.077 ppbv

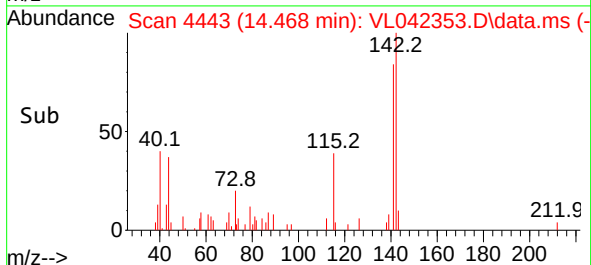
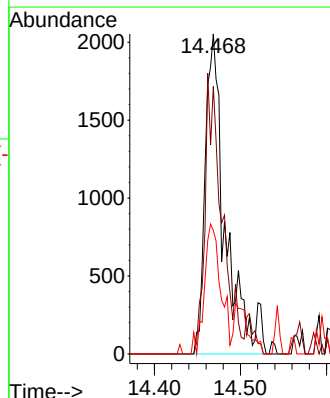
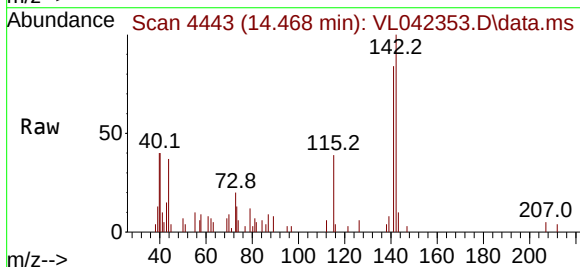
RT: 14.468 min Scan# 4443

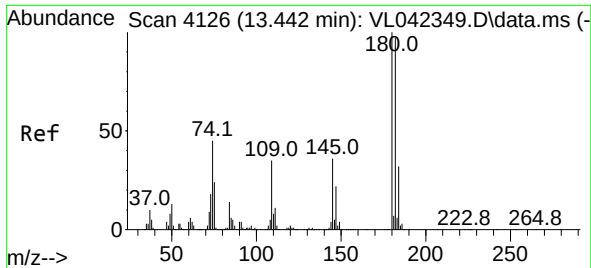
Delta R.T. 0.010 min

Lab File: VL042353.D

Acq: 17 Apr 2025 11:50

Tgt Ion:142	Resp:	3339
Ion Ratio	Lower	Upper
142	100	
141	78.4	66.8 100.2
115	33.1	33.4 50.2#





#81

1,2,4-Trichlorobenzene

Concen: 0.069 ppbv

RT: 13.442 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042353.D

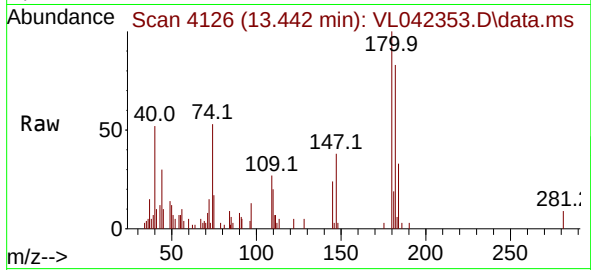
Acq: 17 Apr 2025 11:50

Instrument :

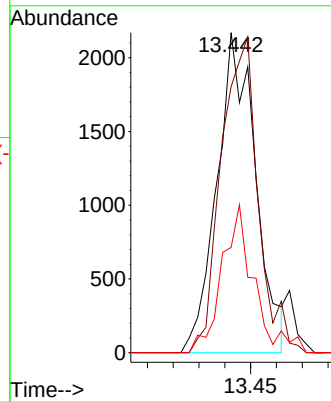
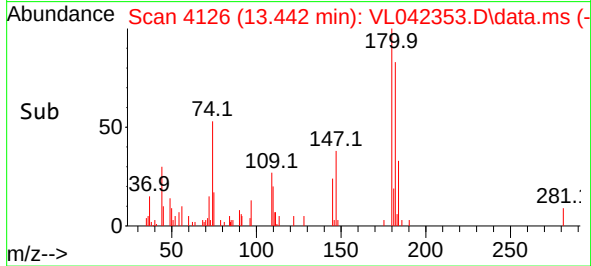
MSVOA_L

ClientSampleId :

VSTDIC0.1



Tgt Ion:	180	Resp:	2245
Ion Ratio	Lower	Upper	
180	100		
182	94.3	76.8	115.2
184	38.4	24.6	36.8#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042354.D
 Acq On : 17 Apr 2025 12:22
 Operator : SY/MD
 Sample : VSTDICC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

Quant Time: Apr 18 02:07:48 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 01:24:29 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	120042	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	349264	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	312999	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	256230	9.962	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.600%

Target Compounds						Qvalue
3) Chlorodifluoromethane	1.479	51	1404	0.070	ppbv #	78
4) Chloromethane	1.534	50	773	0.092	ppbv #	72
5) Vinyl Chloride	1.583	62	361	0.040	ppbv #	76
6) Bromomethane	1.667	94	232	0.059	ppbv #	8
7) Chloroethane	1.699	64	237	0.072	ppbv #	46
8) Dichlorotetrafluoroethane	1.554	85	823	0.045	ppbv	95
9) Propene	1.486	41	508	0.055	ppbv #	15
10) Heptane	4.981	43	435	0.018	ppbv #	1
12) 1,1,2-Trichlorotrifluo...	2.143	101	793	0.048	ppbv #	73
13) Ethanol	1.434	45	60931	81.065	ppbv	74
14) Bromoethene	1.787	108	207	0.033	ppbv #	1
15) Acetone	1.839	43	3597	0.183	ppbv #	89
16) 1,3-Butadiene	1.609	39	573	0.062	ppbv #	1
17) tert-Butyl alcohol	2.049	59	991	0.041	ppbv #	1
18) 1,1-Dichloroethene	2.036	96	455	0.057	ppbv #	43
19) Isopropyl Alcohol	1.434	45	60931	5.582	ppbv #	33
20) Methylene Chloride	2.065	84	2904	0.377	ppbv	86
21) Allyl Chloride	2.097	41	1132	0.083	ppbv #	1
22) trans-1,2-Dichloroethene	2.340	96	287	0.033	ppbv #	32
23) Vinyl Acetate	2.466	43	490	0.062	ppbv #	86
24) 1,1-Dichloroethane	2.415	63	1030	0.062	ppbv #	74
25) Ethyl Acetate	2.835	43	2744	0.057	ppbv #	75
26) Hexane	2.832	57	2398	0.122	ppbv #	65
27) Carbon Disulfide	2.152	76	984	0.047	ppbv #	1
28) Methyl tert-Butyl Ether	2.447	73	426	0.033	ppbv #	48
30) Cyclohexane	3.855	84	311	0.020	ppbv #	1
31) cis-1,2-Dichloroethene	2.725	61	831	0.045	ppbv #	86
32) 1,1,1-Trichloroethane	3.373	97	809	0.027	ppbv #	52
34) 2-Butanone	2.564	43	510	0.018	ppbv #	53
35) Carbon Tetrachloride	3.768	117	862	0.027	ppbv #	45
36) Benzene	3.667	78	1629	0.043	ppbv #	75
38) Trichloroethene	4.557	130	271	0.016	ppbv #	27
39) 1,2-Dichloropropane	3.965	63	90827	6.465	ppbv #	22
40) 1,4-Dioxane	4.625	88	139	0.018	ppbv #	1
42) Bromodichloromethane	4.496	83	1093	0.035	ppbv #	82
43) Methyl Methacrylate	4.891	69	354	0.021	ppbv #	3
44) 2,2,4-Trimethylpentane	4.641	57	1377	0.021	ppbv #	1
45) t-1,3-Dichloropropene	6.415	75	183	0.011	ppbv	100
46) cis-1,3-Dichloropropene	5.606	75	546	0.026	ppbv #	37
47) 1,1,2-Trichloroethane	6.590	97	225	0.016	ppbv #	40
48) Dibromochloromethane	7.399	129	258	0.010	ppbv #	10
49) Bromoform	9.493	173	285	0.013	ppbv #	1
53) Toluene	6.943	91	464	0.010	ppbv #	1

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042354.D
 Acq On : 17 Apr 2025 12:22
 Operator : SY/MD
 Sample : VSTDIC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

Quant Time: Apr 18 02:07:48 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 01:24:29 2025
 Response via : Initial Calibration

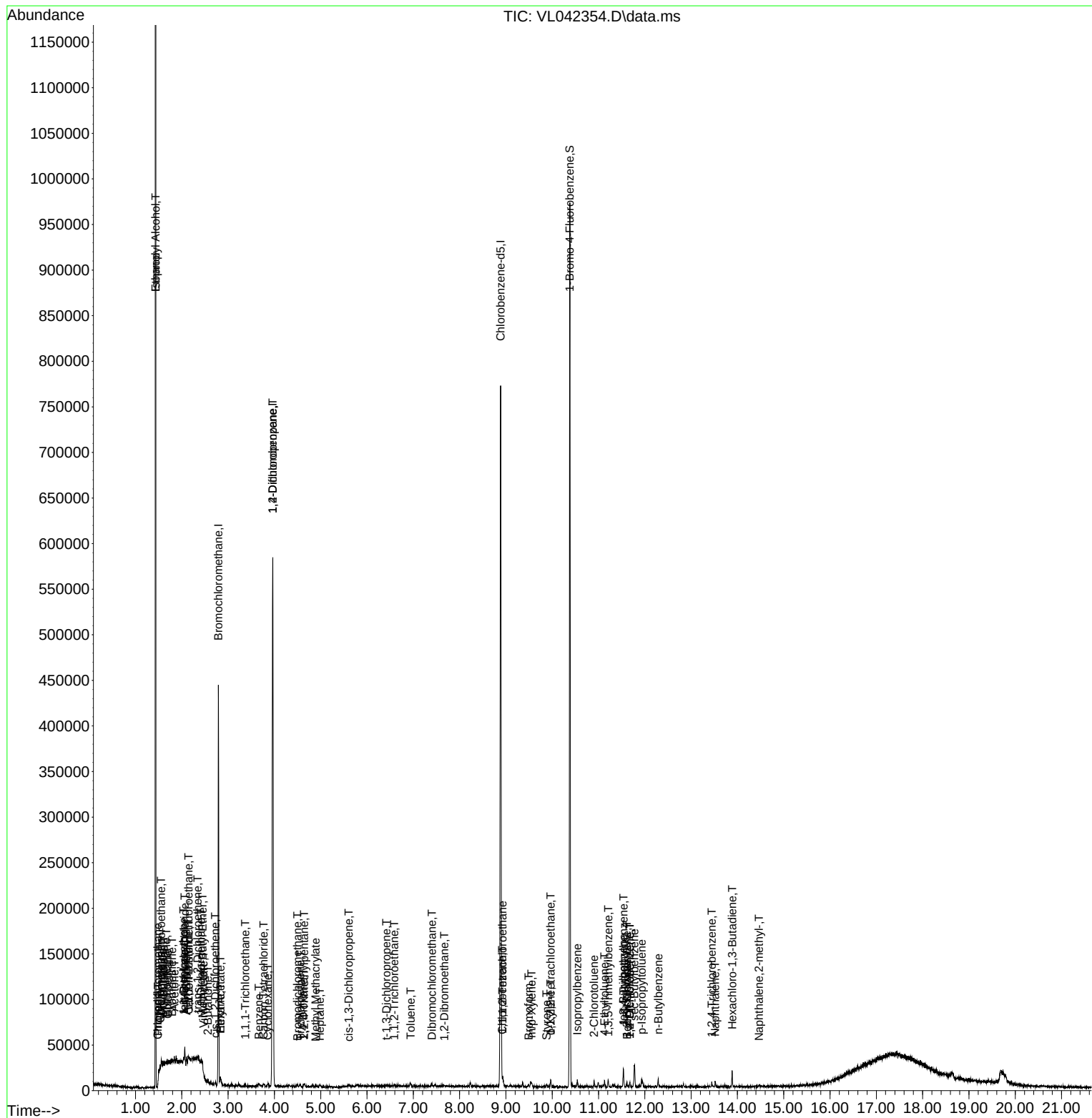
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
54) 1,2-Dibromoethane	7.668	107	422	0.021	ppbv	#	12
56) 1,1,1,2-Tetrachloroethane	8.927	131	589	0.031	ppbv	#	1
57) Chlorobenzene	8.920	112	567	0.017	ppbv	#	74
59) m/p-Xylene	9.555	91	1648	0.033	ppbv	#	32
60) o-Xylene	9.966	91	1938	0.039	ppbv		84
61) Styrene	9.875	104	813	0.034	ppbv		93
62) Isopropylbenzene	10.542	105	2934	0.040	ppbv		92
63) 1,1,2,2-Tetrachloroethane	9.966	83	826	0.025	ppbv	#	58
65) tert-Butylbenzene	11.536	119	2656	0.039	ppbv		90
66) Benzyl Chloride	11.620	91	130	0.017	ppbv	#	70
67) sec-Butylbenzene	11.772	105	3658	0.039	ppbv	#	85
69) p-Isopropyltoluene	11.930	119	3139	0.038	ppbv		94
70) n-Butylbenzene	12.290	91	2516	0.029	ppbv	#	81
71) 2-Chlorotoluene	10.901	91	2537	0.044	ppbv		99
72) 4-Ethyltoluene	11.128	105	2221	0.036	ppbv	#	69
73) 1,3,5-Trimethylbenzene	11.212	105	2473	0.046	ppbv	#	86
74) 1,2,4-Trimethylbenzene	11.539	105	4320	0.068	ppbv	#	80
75) 1,3-Dichlorobenzene	11.613	146	1056	0.032	ppbv		91
76) 1,4-Dichlorobenzene	11.671	146	1180	0.036	ppbv		95
77) 1,2-Dichlorobenzene	11.671	146	1180	0.037	ppbv		93
78) Hexachloro-1,3-Butadiene	13.889	225	1879	0.058	ppbv		92
79) Naphthalene	13.516	128	2354	0.031	ppbv	#	84
80) Naphthalene,2-methyl-	14.468	142	594	0.014	ppbv	#	52
81) 1,2,4-Trichlorobenzene	13.445	180	614	0.019	ppbv	#	71

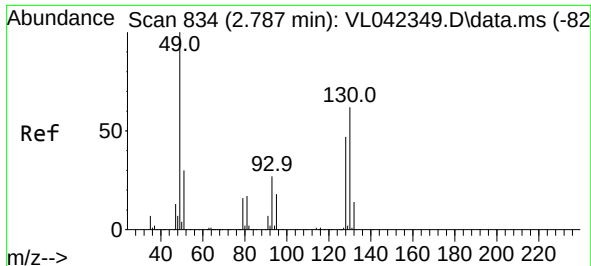
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042354.D
Acq On : 17 Apr 2025 12:22
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Quant Time: Apr 18 02:07:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

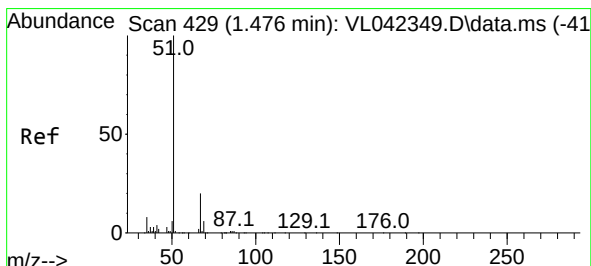
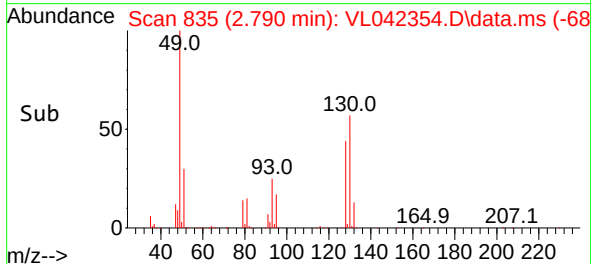
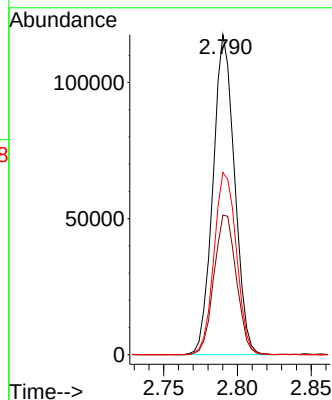
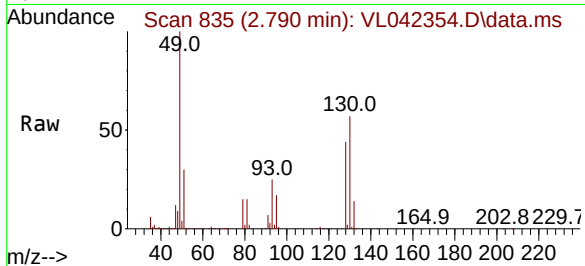




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

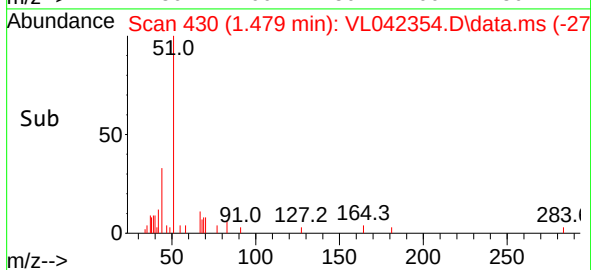
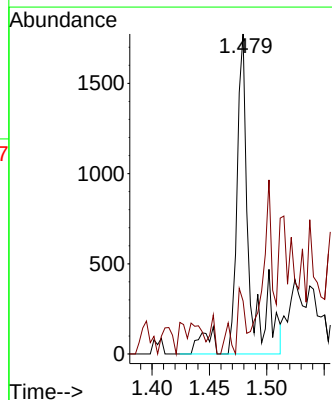
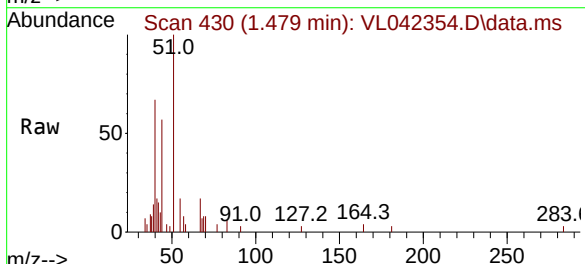
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

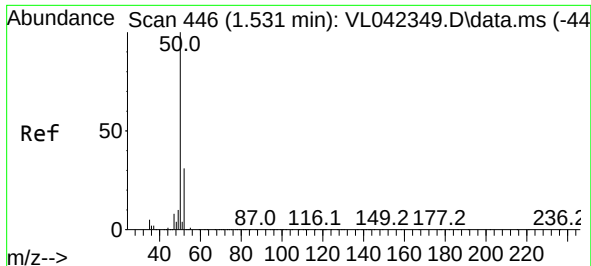
Tgt Ion: 49 Resp: 120042
Ion Ratio Lower Upper
49 100
128 45.3 22.8 68.4
130 59.0 29.3 88.0



#3
Chlorodifluoromethane
Concen: 0.070 ppbv
RT: 1.479 min Scan# 430
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 51 Resp: 1404
Ion Ratio Lower Upper
51 100
67 30.7 16.2 24.4#

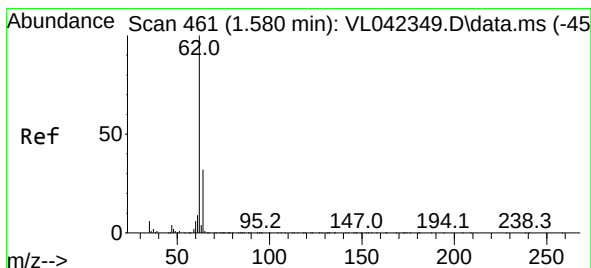
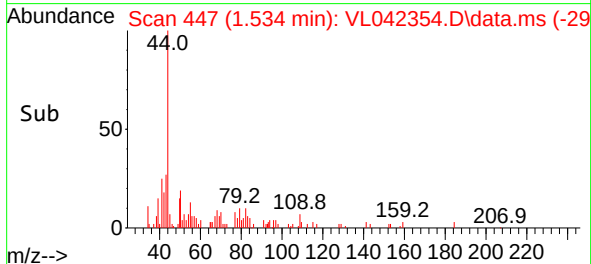
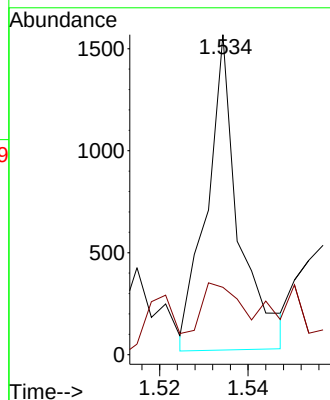
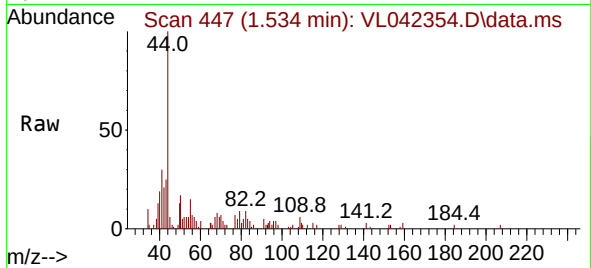




#4
Chloromethane
Concen: 0.092 ppbv
RT: 1.534 min Scan# 446
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

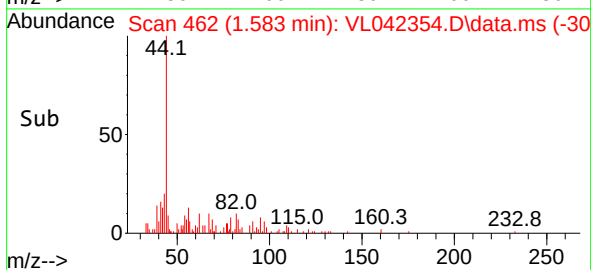
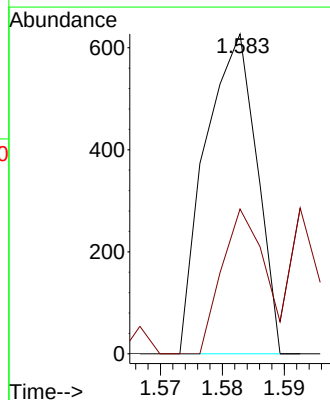
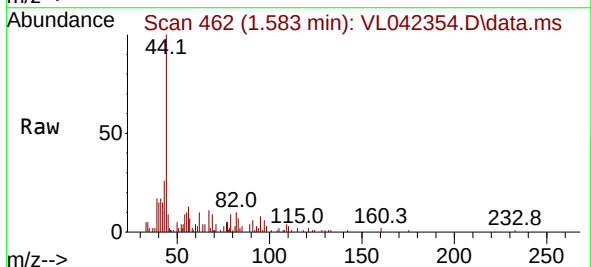
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

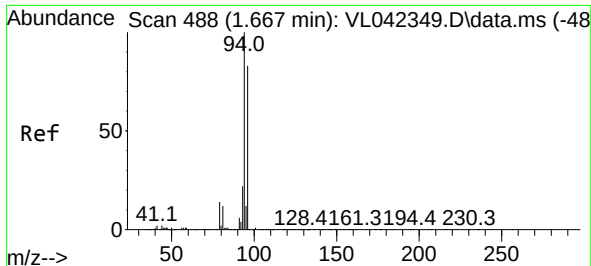
Tgt Ion: 50 Resp: 773
Ion Ratio Lower Upper
50 100
52 15.3 24.7 37.1#



#5
Vinyl Chloride
Concen: 0.040 ppbv
RT: 1.583 min Scan# 462
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 62 Resp: 361
Ion Ratio Lower Upper
62 100
64 45.3 25.4 38.0#

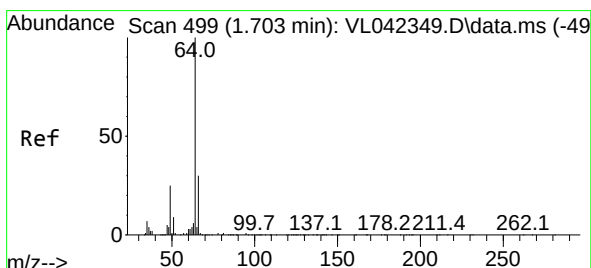
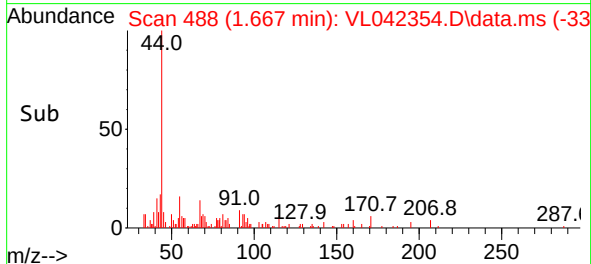
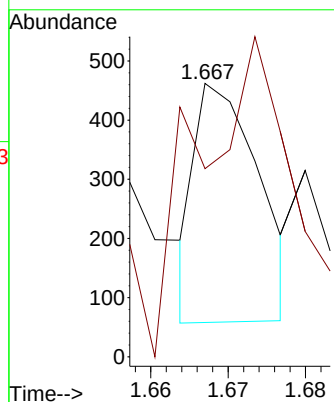
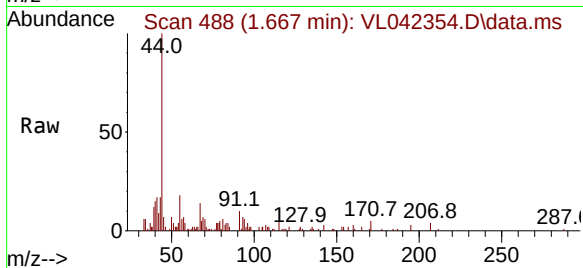




#6
Bromomethane
Concen: 0.059 ppbv
RT: 1.667 min Scan# 488
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

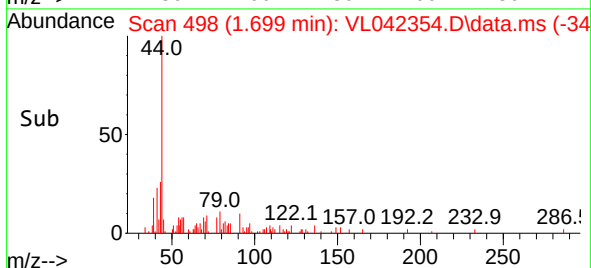
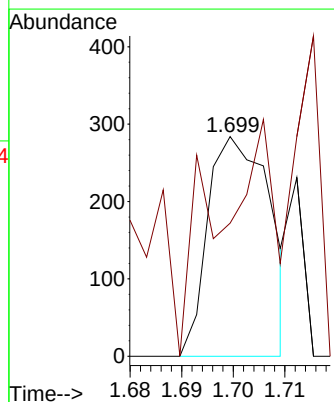
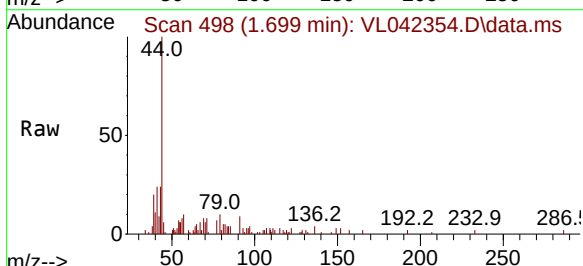
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.03

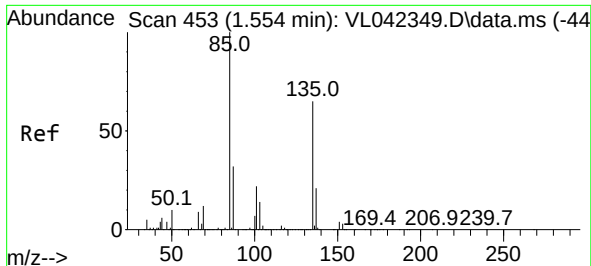
Tgt Ion: 94 Resp: 232
Ion Ratio Lower Upper
94 100
96 0.0 66.2 99.2#



#7
Chloroethane
Concen: 0.072 ppbv
RT: 1.699 min Scan# 498
Delta R.T. -0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 64 Resp: 237
Ion Ratio Lower Upper
64 100
66 60.6 24.6 37.0#

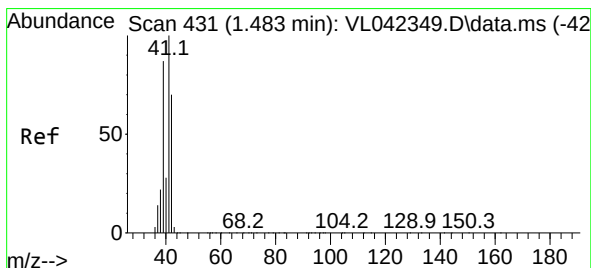
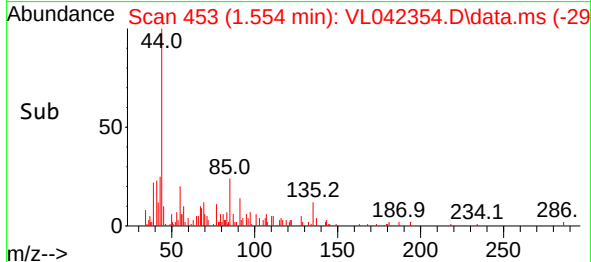
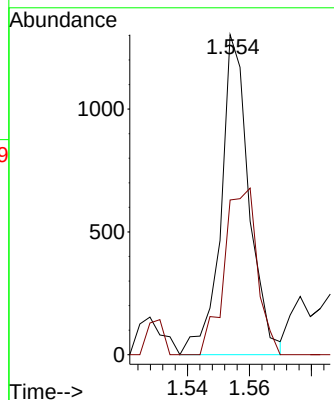
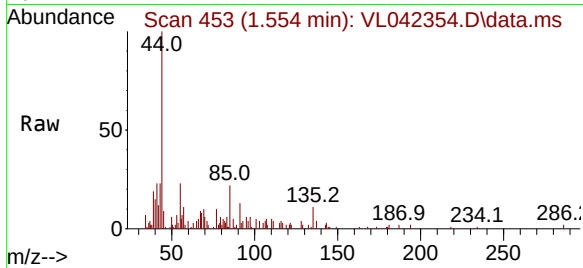




#8
 Dichlorotetrafluoroethane
 Concen: 0.045 ppbv
 RT: 1.554 min Scan# 411
 Delta R.T. -0.000 min
 Lab File: VL042354.D
 Acq: 17 Apr 2025 12:22

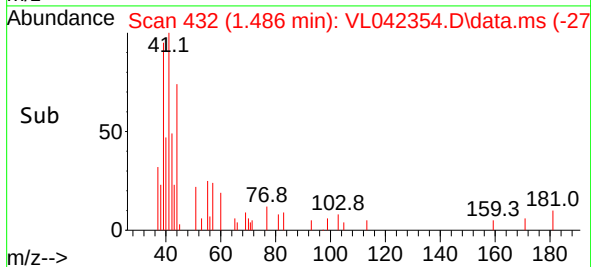
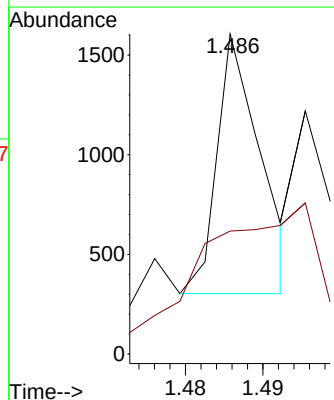
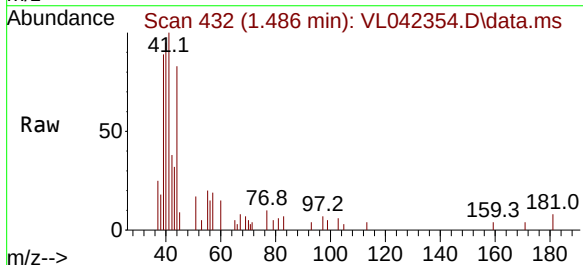
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICC0.03

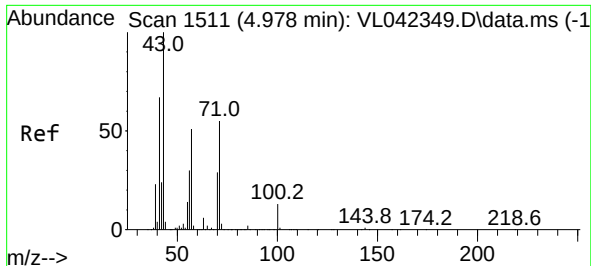
Tgt Ion: 85 Resp: 823
 Ion Ratio Lower Upper
 85 100
 135 69.1 52.2 78.2



#9
 Propene
 Concen: 0.055 ppbv
 RT: 1.486 min Scan# 432
 Delta R.T. 0.003 min
 Lab File: VL042354.D
 Acq: 17 Apr 2025 12:22

Tgt Ion: 41 Resp: 508
 Ion Ratio Lower Upper
 41 100
 42 0.0 56.2 84.4#

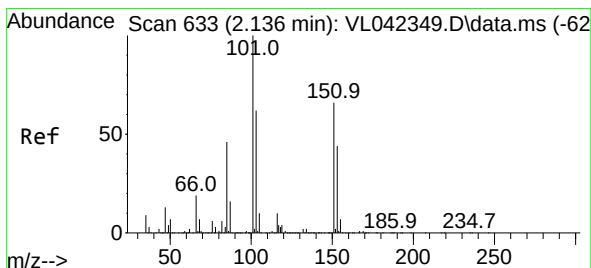
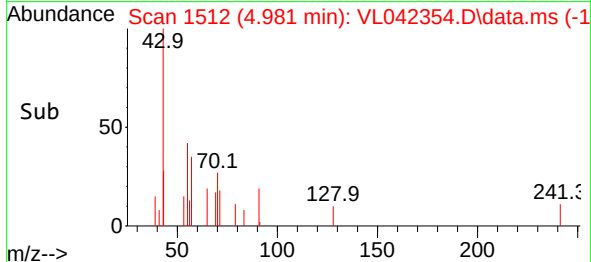
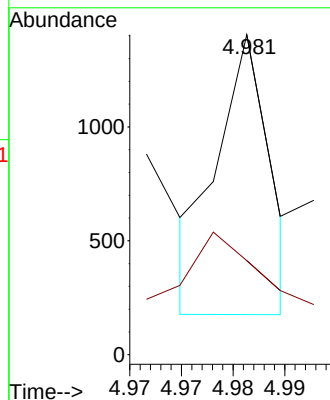
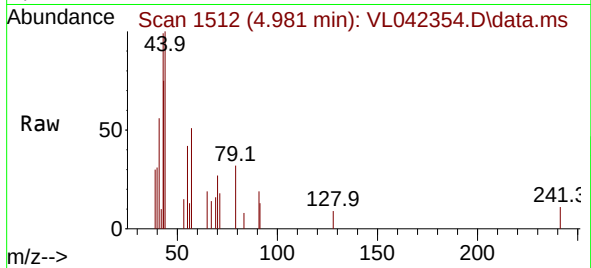




#10
Heptane
Concen: 0.018 ppbv
RT: 4.981 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

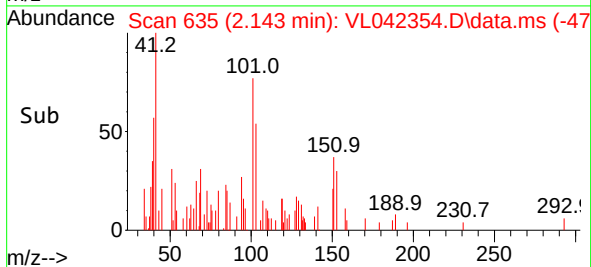
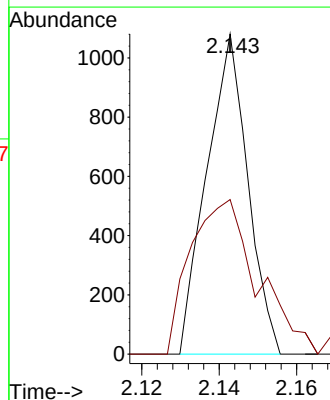
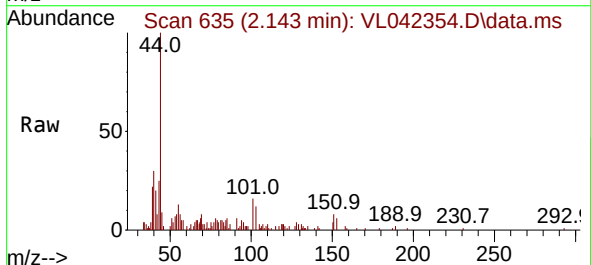
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

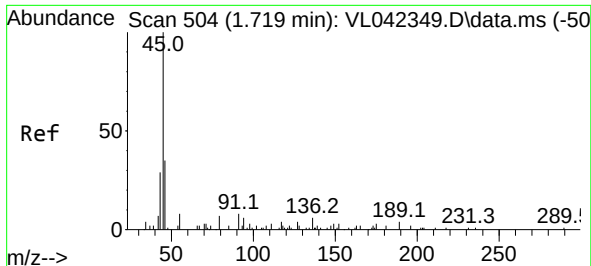
Tgt Ion: 43 Resp: 435
Ion Ratio Lower Upper
43 100
57 283.4 39.9 59.9#



#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.048 ppbv
RT: 2.143 min Scan# 635
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 101 Resp: 793
Ion Ratio Lower Upper
101 100
151 93.3 57.0 85.6#

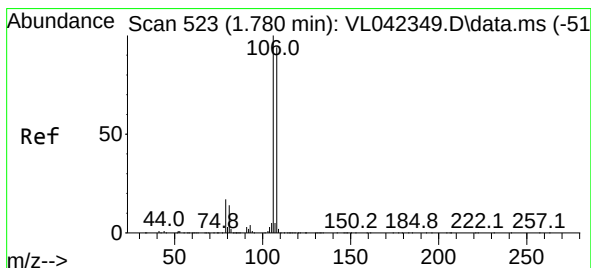
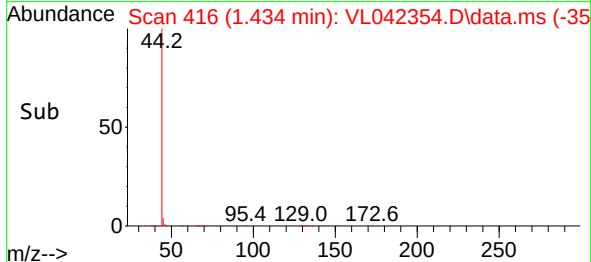
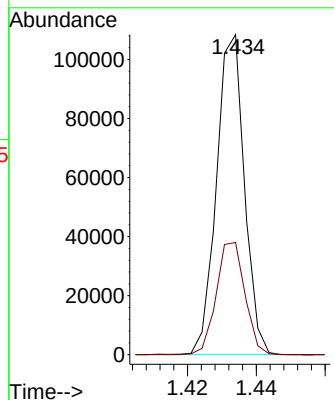
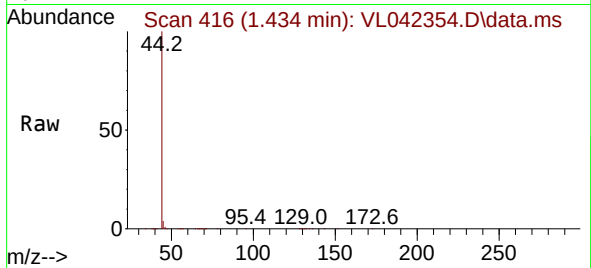




#13
 Ethanol
 Concen: 81.065 ppbv
 RT: 1.434 min Scan# 416
 Delta R.T. -0.285 min
 Lab File: VL042354.D
 Acq: 17 Apr 2025 12:22

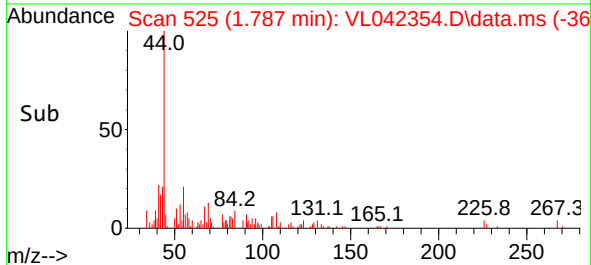
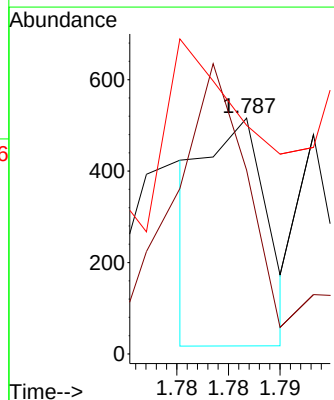
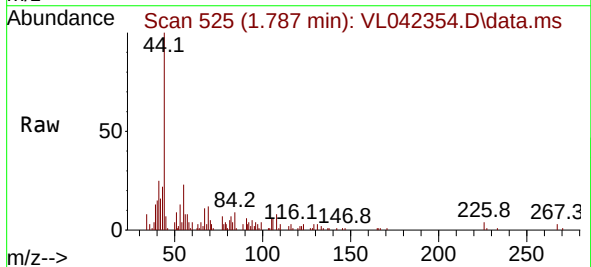
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

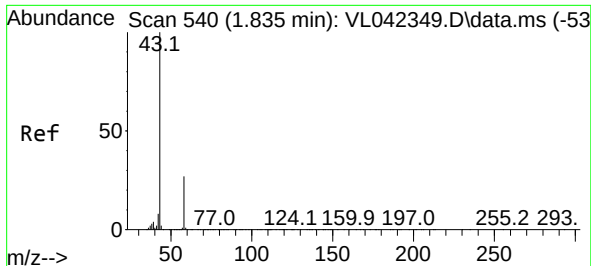
Tgt Ion: 45 Resp: 60931
 Ion Ratio Lower Upper
 45 100
 46 36.1 21.9 87.7



#14
 Bromoethene
 Concen: 0.033 ppbv
 RT: 1.787 min Scan# 525
 Delta R.T. 0.006 min
 Lab File: VL042354.D
 Acq: 17 Apr 2025 12:22

Tgt Ion: 108 Resp: 207
 Ion Ratio Lower Upper
 108 100
 106 248.3 85.9 128.9#
 79 0.0 13.9 20.9#

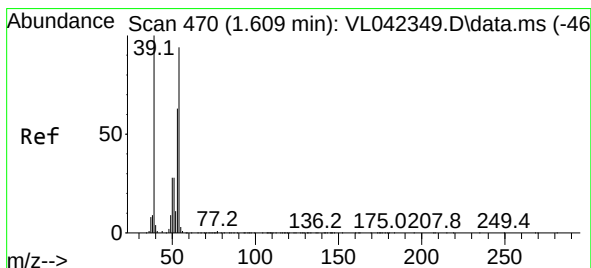
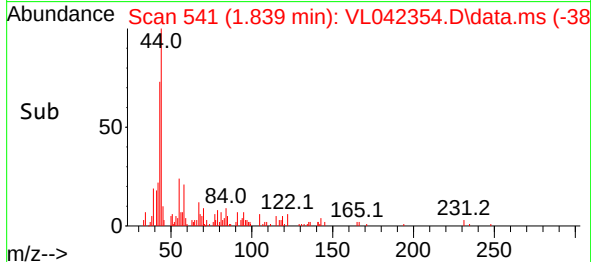
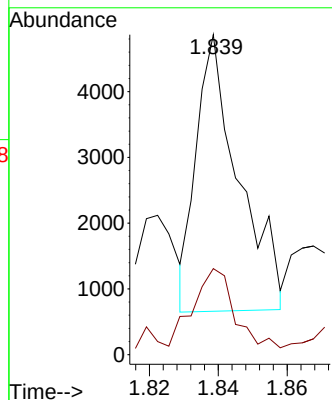
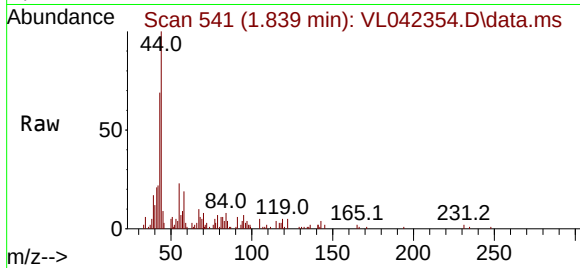




#15
Acetone
Concen: 0.183 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

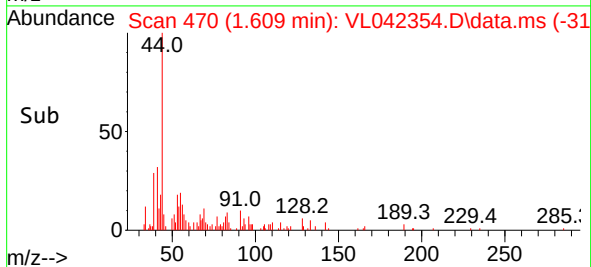
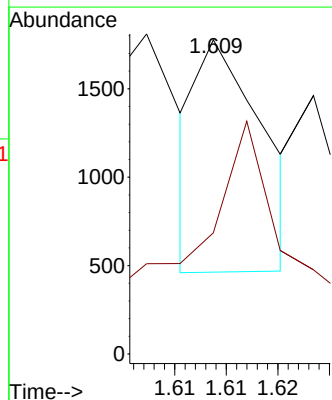
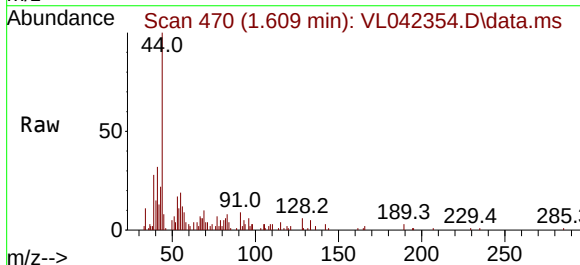
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

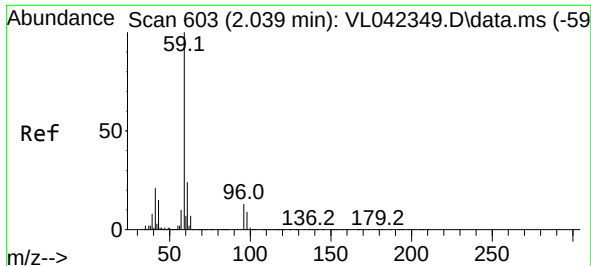
Tgt Ion: 43 Resp: 3597
Ion Ratio Lower Upper
43 100
58 33.7 22.4 33.6#



#16
1,3-Butadiene
Concen: 0.062 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 39 Resp: 573
Ion Ratio Lower Upper
39 100
54 377.0 64.9 97.3#





#17

tert-Butyl alcohol

Concen: 0.041 ppbv

RT: 2.049 min Scan# 603

Delta R.T. 0.010 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

Instrument :

MSVOA_L

ClientSampleId :

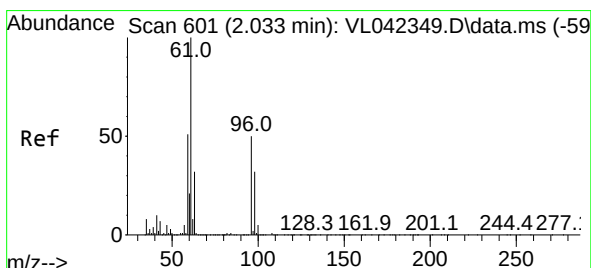
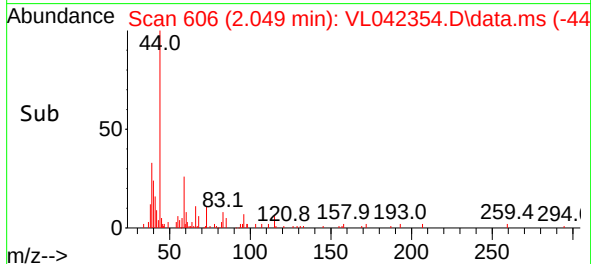
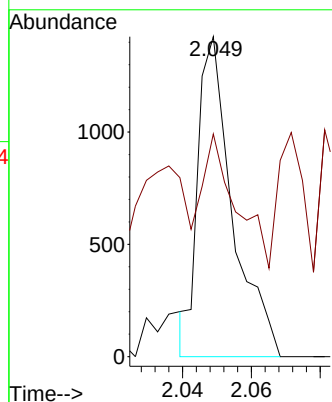
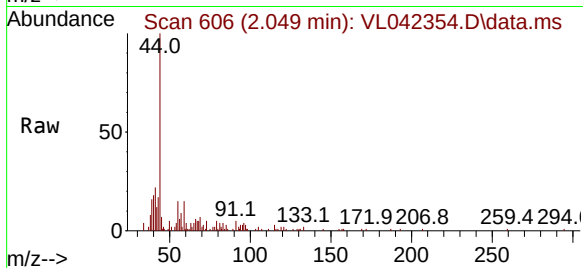
VSTDICC0.03

Tgt Ion: 59 Resp: 991

Ion Ratio Lower Upper

59 100

57 113.2 8.7 13.1#



#18

1,1-Dichloroethene

Concen: 0.057 ppbv

RT: 2.036 min Scan# 602

Delta R.T. 0.003 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

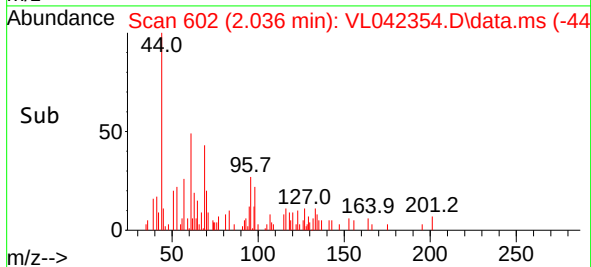
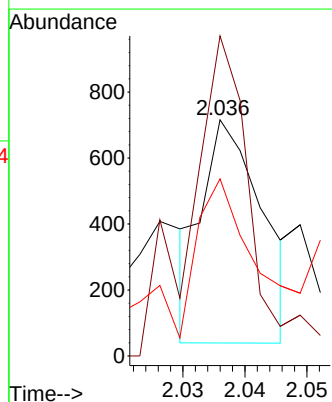
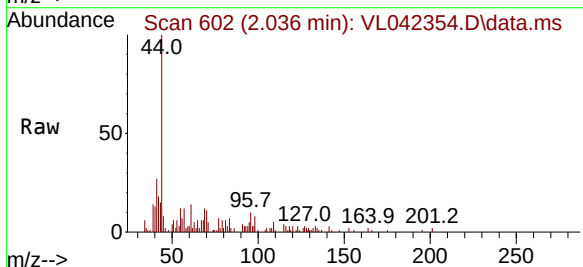
Tgt Ion: 96 Resp: 455

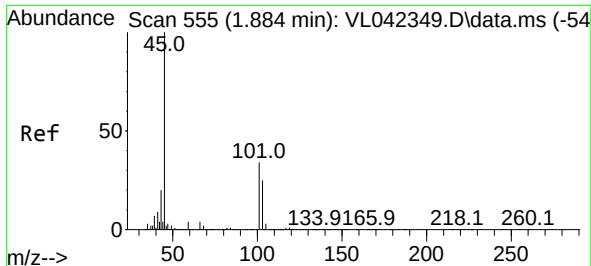
Ion Ratio Lower Upper

96 100

61 271.0 160.2 240.2#

98 132.1 51.0 76.4#

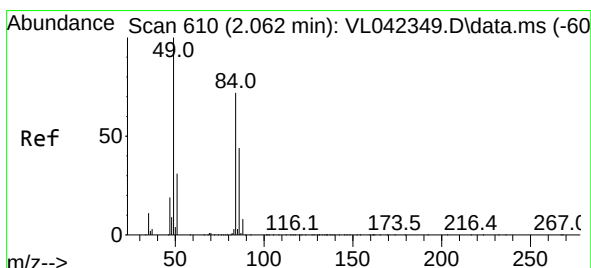
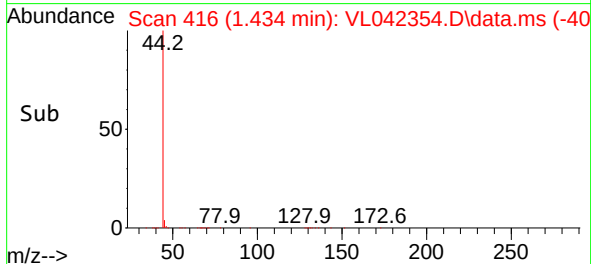
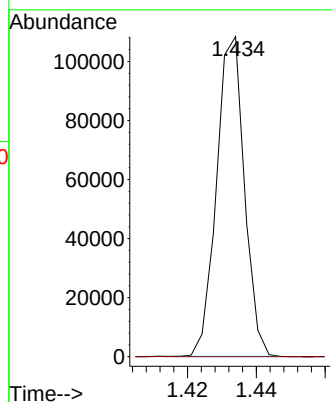
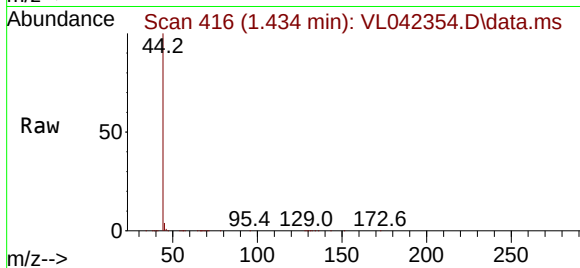




#19
Isopropyl Alcohol
Concen: 5.582 ppbv
RT: 1.434 min Scan# 416
Delta R.T. -0.450 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

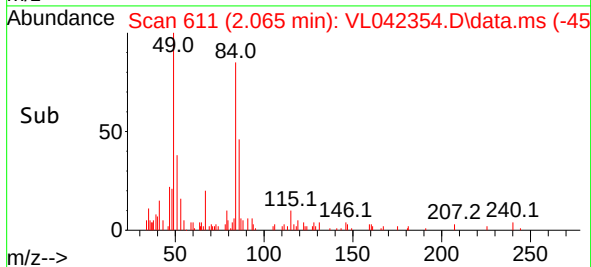
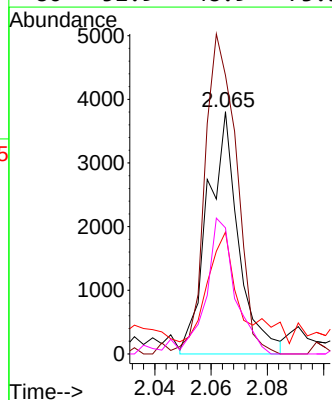
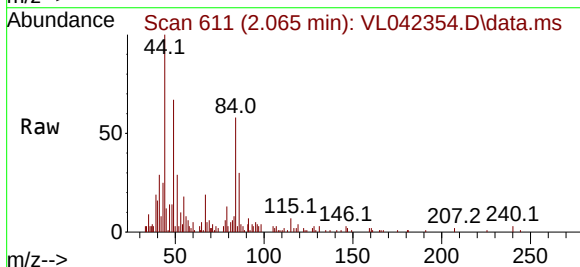
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

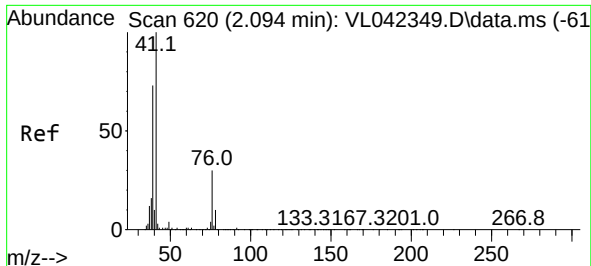
Tgt Ion: 45 Resp: 60931
Ion Ratio Lower Upper
45 100
58 0.2 34.5 51.7#



#20
Methylene Chloride
Concen: 0.377 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 84 Resp: 2904
Ion Ratio Lower Upper
84 100
49 116.9 111.6 167.4
51 46.1 35.1 52.7
86 52.9 48.9 73.3

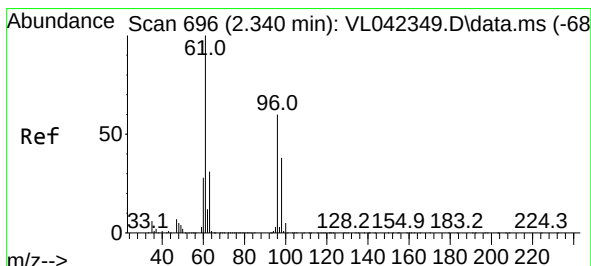
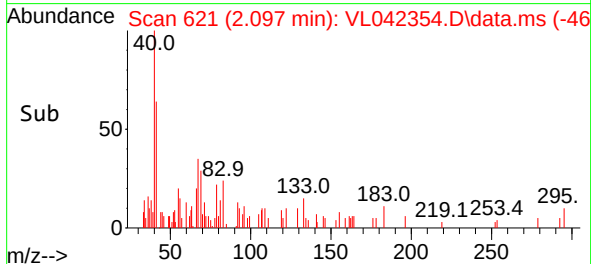
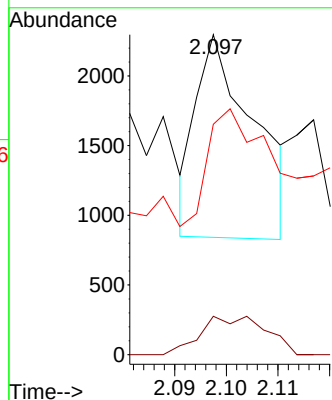
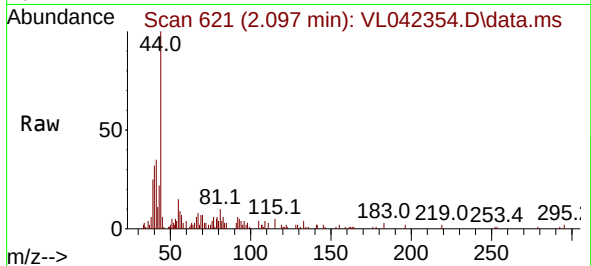




#21
 Allyl Chloride
 Concen: 0.083 ppbv
 RT: 2.097 min Scan# 61
 Delta R.T. 0.003 min
 Lab File: VL042354.D
 Acq: 17 Apr 2025 12:22

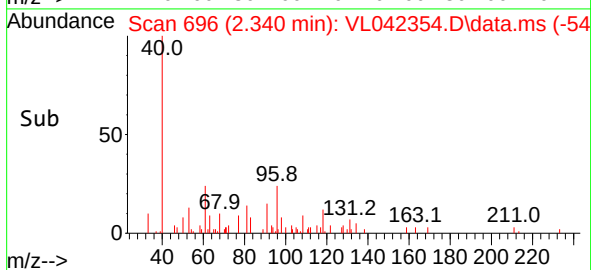
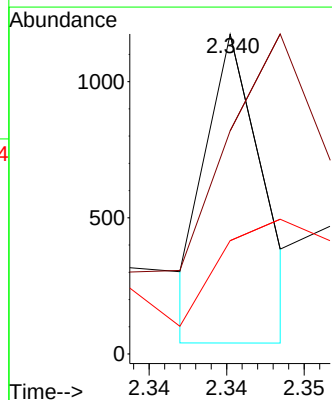
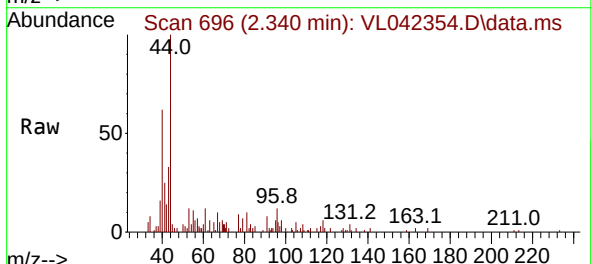
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.03

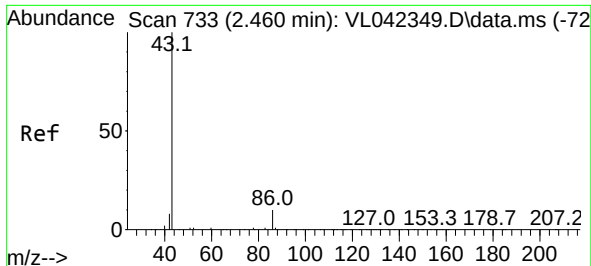
Tgt Ion: 41 Resp: 1132
 Ion Ratio Lower Upper
 41 100
 76 21.5 24.8 37.2#
 39 407.5 60.6 90.8#



#22
 trans-1,2-Dichloroethene
 Concen: 0.033 ppbv
 RT: 2.340 min Scan# 696
 Delta R.T. -0.000 min
 Lab File: VL042354.D
 Acq: 17 Apr 2025 12:22

Tgt Ion: 96 Resp: 287
 Ion Ratio Lower Upper
 96 100
 61 58.7 133.7 200.5#
 98 36.0 50.3 75.5#

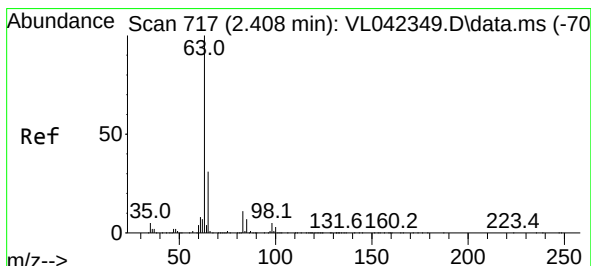
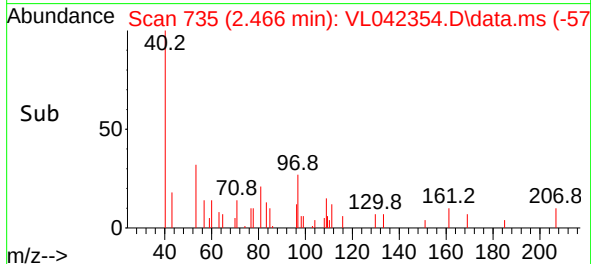
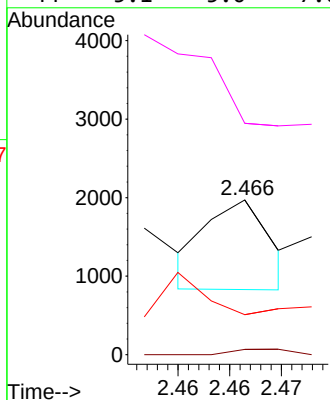
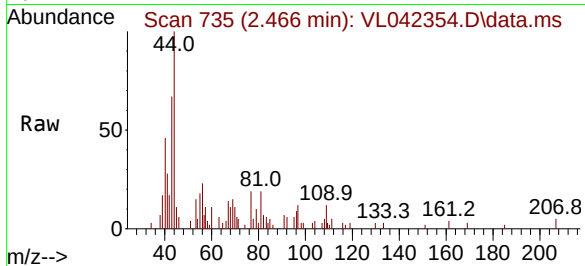




#23
Vinyl Acetate
Concen: 0.062 ppbv
RT: 2.466 min Scan# 719
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

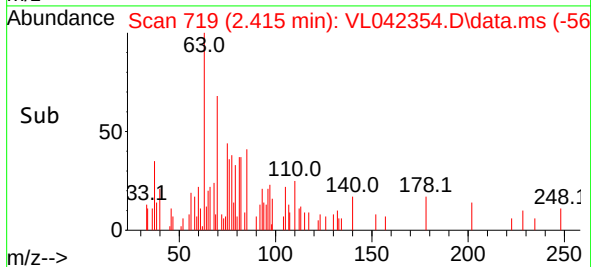
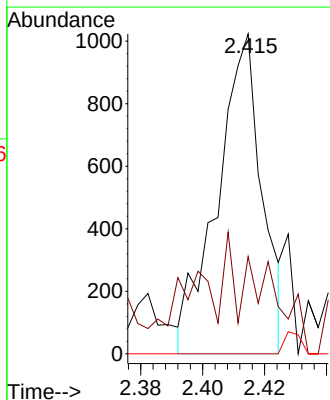
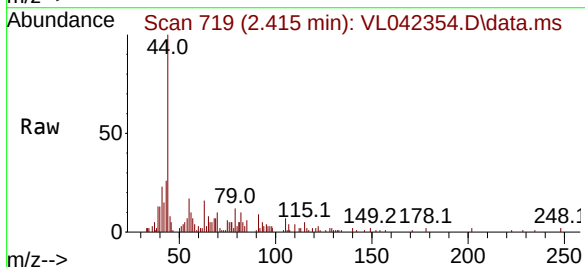
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.03

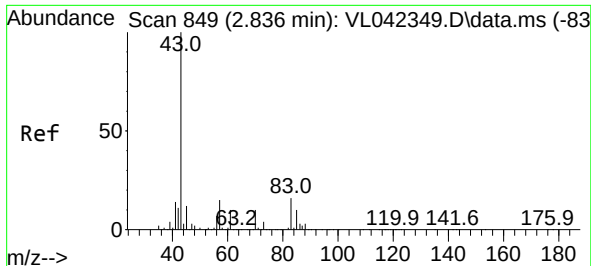
Tgt Ion: 43	Resp:	490
Ion	Ratio	Lower Upper
43	100	
86	10.1	6.5 9.7#
42	0.0	7.8 11.8#
44	5.1	5.0 7.6



#24
1,1-Dichloroethane
Concen: 0.062 ppbv
RT: 2.415 min Scan# 719
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 63	Resp:	1030
Ion	Ratio	Lower Upper
63	100	
98	17.1	2.3 6.8#
100	0.0	1.6 4.8#

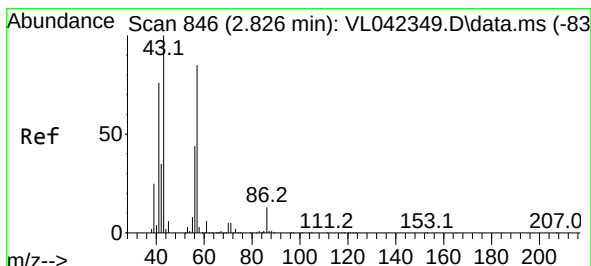
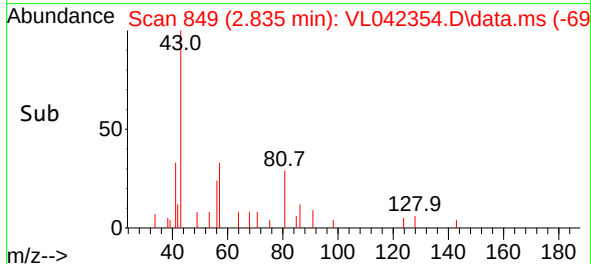
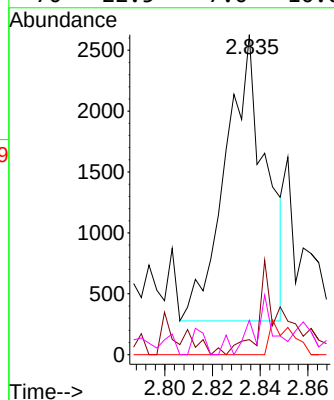
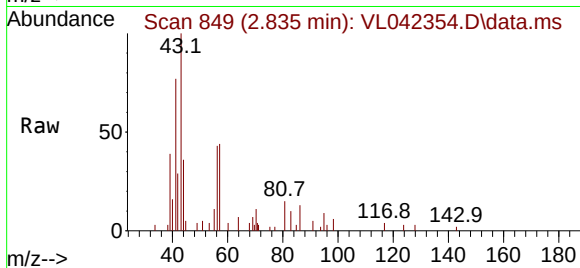




#25
Ethyl Acetate
Concen: 0.057 ppbv
RT: 2.835 min Scan# 849
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

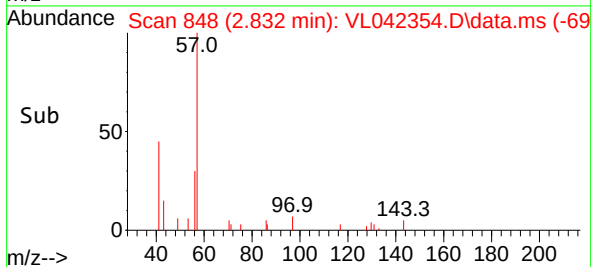
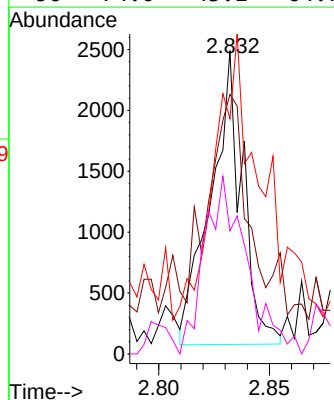
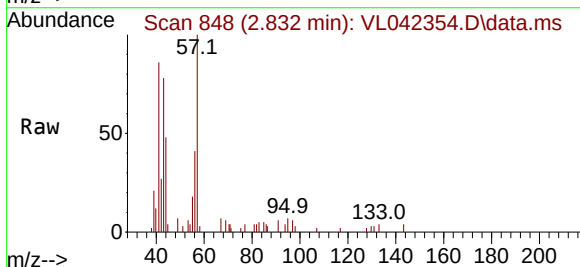
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

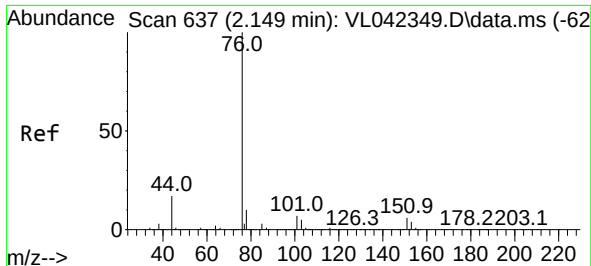
Tgt Ion: 43	Resp: 2744
Ion Ratio	Lower Upper
43 100	
45 21.1	8.3 12.5#
61 6.4	7.3 10.9#
70 22.5	7.0 10.6#



#26
Hexane
Concen: 0.122 ppbv
RT: 2.832 min Scan# 848
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt	Ion: 57	Resp:	2398
Ion	Ratio	Lower	Upper
57	100		
41	125.7	77.9	116.9#
43	191.2	208.4	312.6#
56	74.0	43.1	64.7#





#27

Carbon Disulfide

Concen: 0.047 ppbv

RT: 2.152 min Scan# 61

Delta R.T. 0.003 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

Instrument :

MSVOA_1

ClientSampleId :

VSTDICC0.03

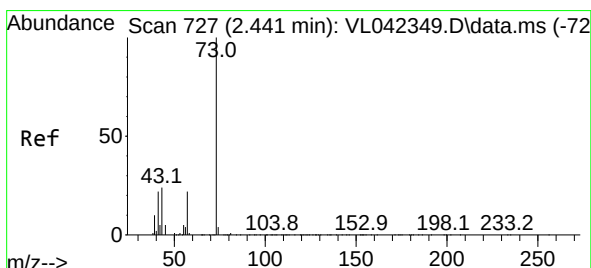
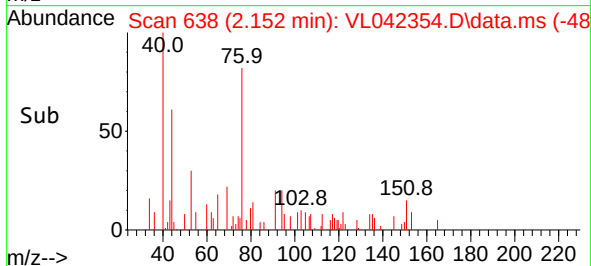
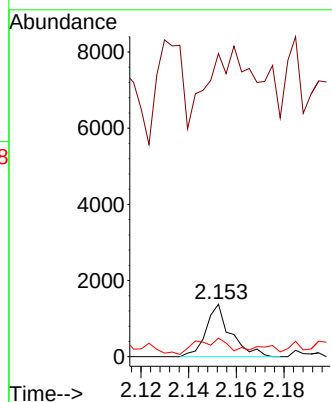
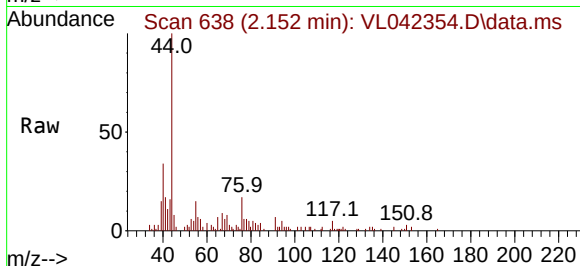
Tgt Ion: 76 Resp: 984

Ion Ratio Lower Upper

76 100

44 1141.4 15.5 23.3#

78 54.0 9.3 13.9#



#28

Methyl tert-Butyl Ether

Concen: 0.033 ppbv

RT: 2.447 min Scan# 729

Delta R.T. 0.006 min

Lab File: VL042354.D

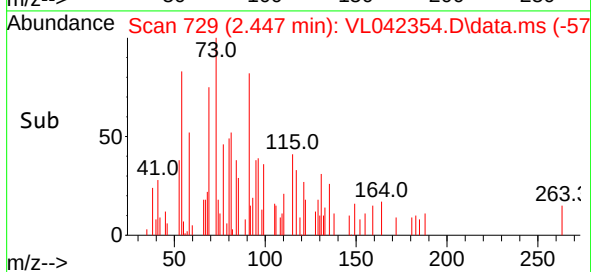
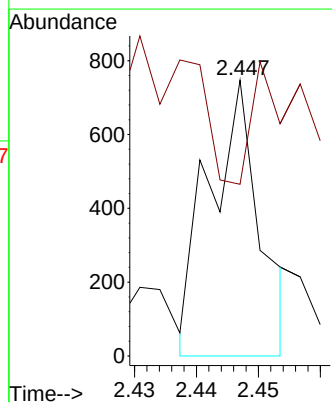
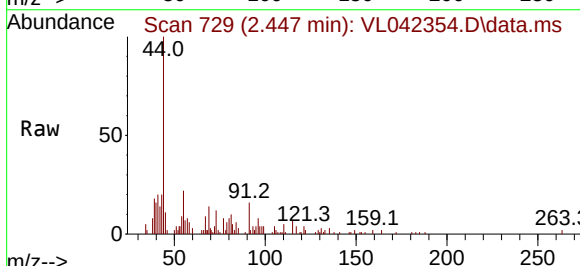
Acq: 17 Apr 2025 12:22

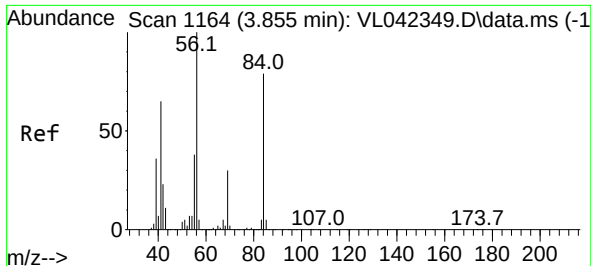
Tgt Ion: 73 Resp: 426

Ion Ratio Lower Upper

73 100

57 0.0 21.3 31.9#

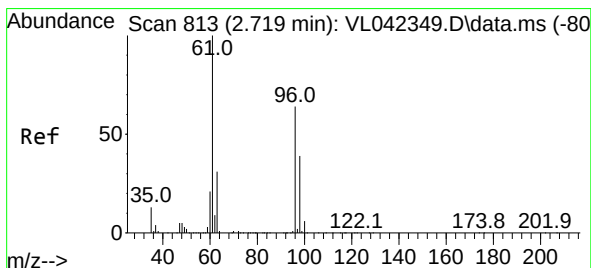
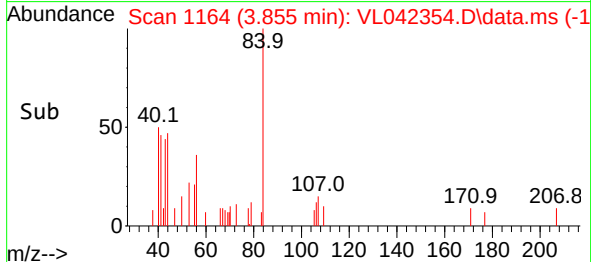
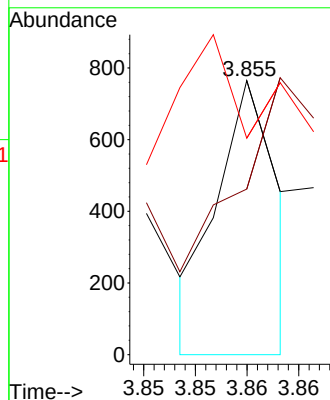
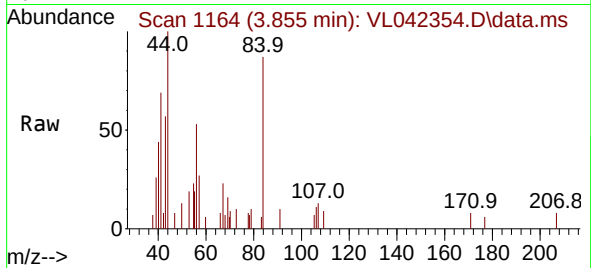




#30
Cyclohexane
Concen: 0.020 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

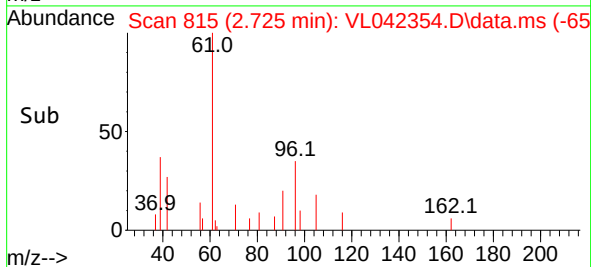
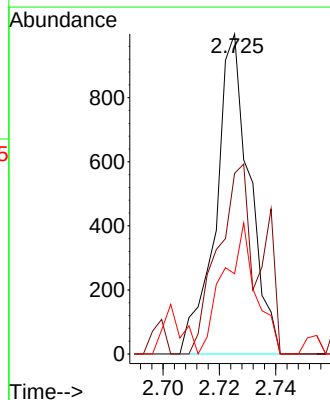
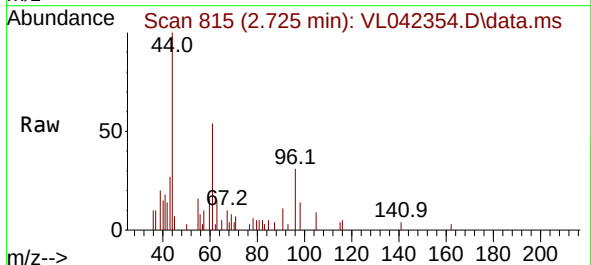
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

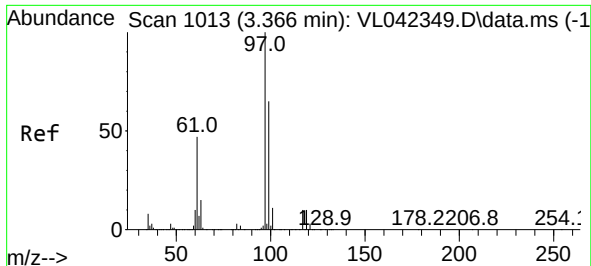
Tgt Ion: 84 Resp: 311
Ion Ratio Lower Upper
84 100
56 0.0 101.0 151.4#
41 0.0 67.4 101.0#



#31
cis-1,2-Dichloroethene
Concen: 0.045 ppbv
RT: 2.725 min Scan# 815
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 61 Resp: 831
Ion Ratio Lower Upper
61 100
96 56.5 50.8 76.2
98 25.0 30.9 46.3#

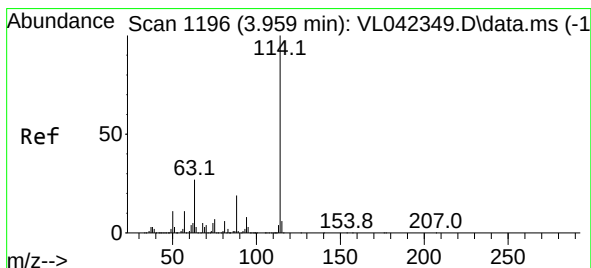
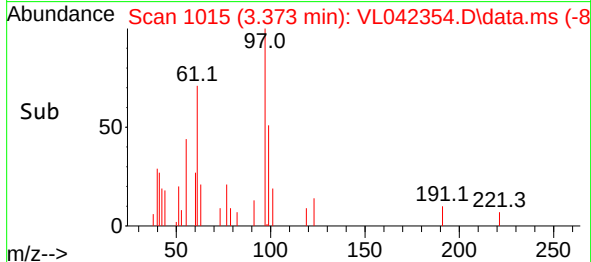
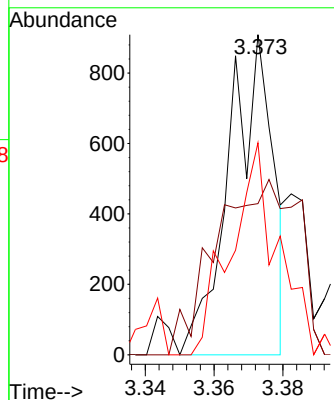
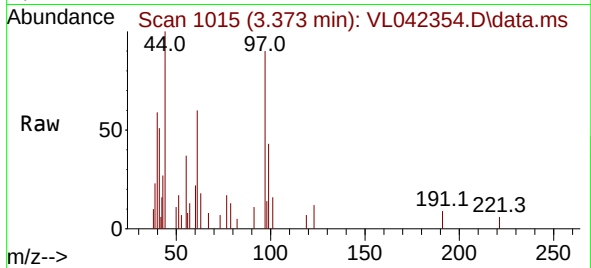




#32
 1,1,1-Trichloroethane
 Concen: 0.027 ppbv
 RT: 3.373 min Scan# 1109
 Delta R.T. 0.006 min
 Lab File: VL042354.D
 Acq: 17 Apr 2025 12:22

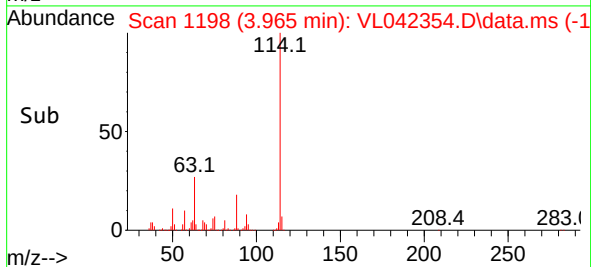
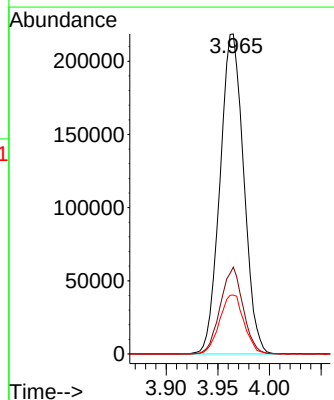
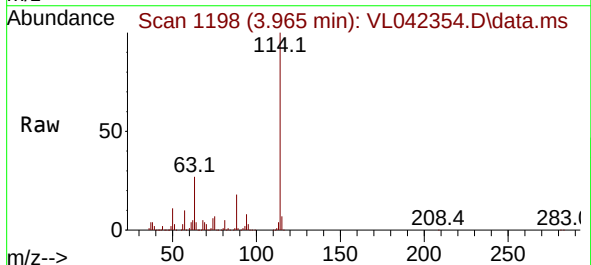
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.03

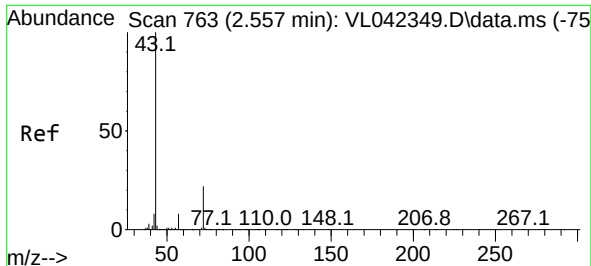
Tgt Ion: 97 Resp: 809
 Ion Ratio Lower Upper
 97 100
 99 103.0 51.0 76.4#
 61 78.7 38.8 58.2#



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.965 min Scan# 1198
 Delta R.T. 0.006 min
 Lab File: VL042354.D
 Acq: 17 Apr 2025 12:22

Tgt Ion: 114 Resp: 349264
 Ion Ratio Lower Upper
 114 100
 63 26.0 21.8 32.6
 88 19.0 15.5 23.3

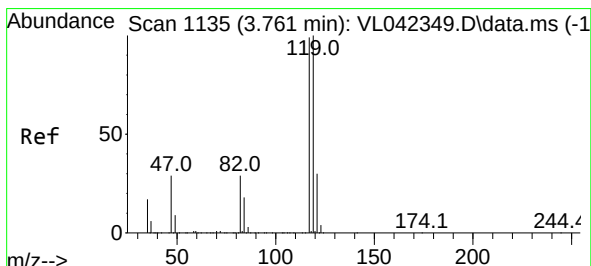
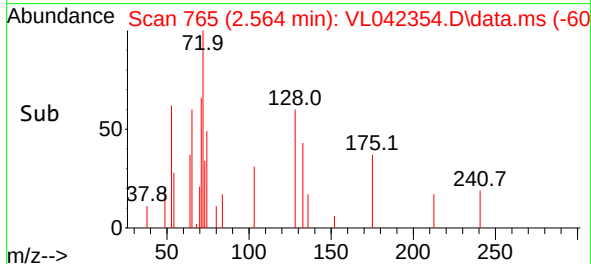
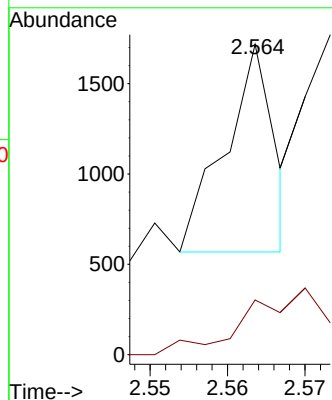
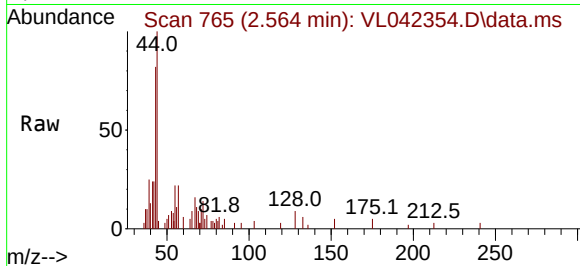




#34
2-Butanone
Concen: 0.018 ppbv
RT: 2.564 min Scan# 71
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

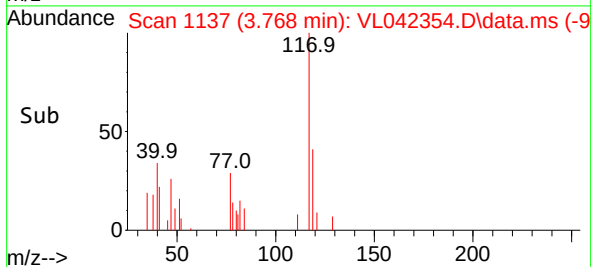
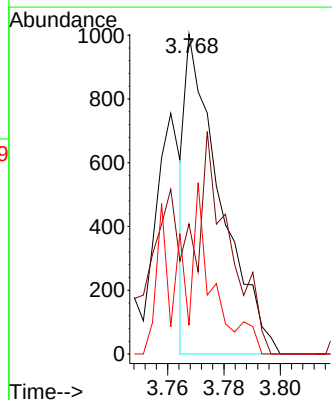
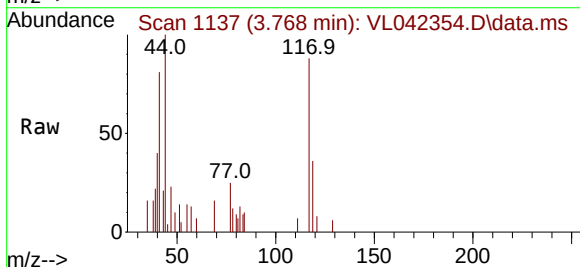
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC0.03

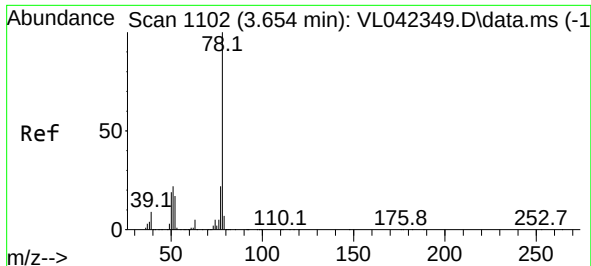
Tgt Ion: 43 Resp: 510
Ion Ratio Lower Upper
43 100
72 0.0 18.2 27.2#



#35
Carbon Tetrachloride
Concen: 0.027 ppbv
RT: 3.768 min Scan# 1137
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 117 Resp: 862
Ion Ratio Lower Upper
117 100
119 40.6 80.5 120.7#
121 9.0 24.2 36.2#





#36

Benzene

Concen: 0.043 ppbv

RT: 3.667 min Scan# 1106

Delta R.T. 0.013 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.03

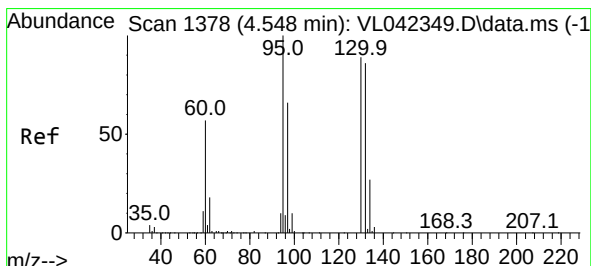
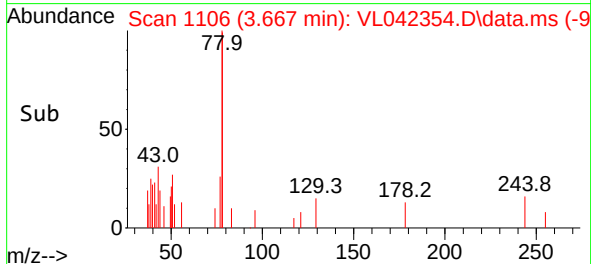
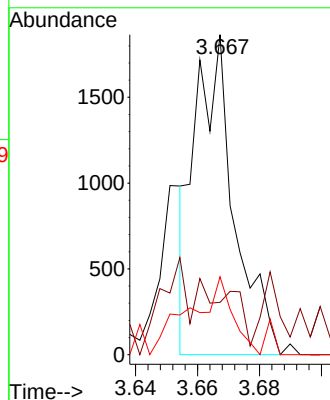
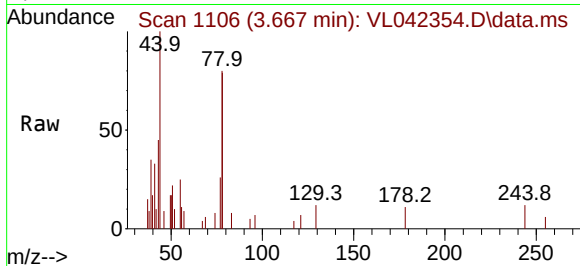
Tgt Ion: 78 Resp: 1629

Ion Ratio Lower Upper

78 100

77 4.6 17.4 26.0#

50 25.2 15.5 23.3#



#38

Trichloroethene

Concen: 0.016 ppbv

RT: 4.557 min Scan# 1381

Delta R.T. 0.010 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

Tgt Ion:130 Resp: 271

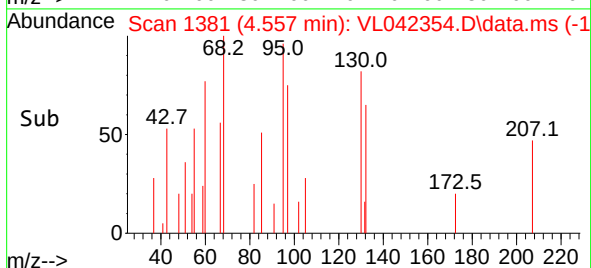
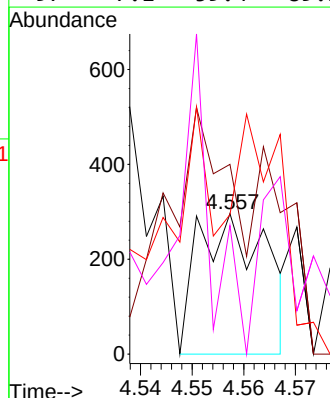
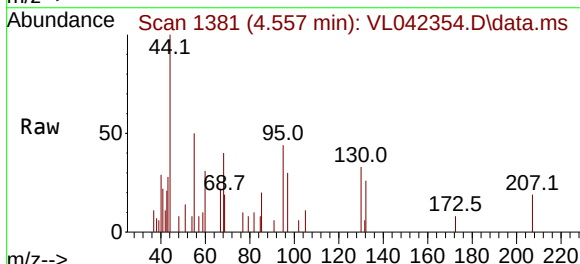
Ion Ratio Lower Upper

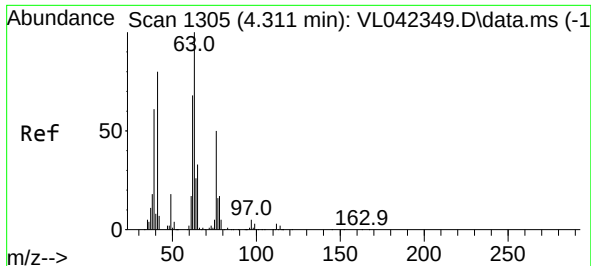
130 100

95 44.6 89.8 134.6#

132 19.6 77.7 116.5#

97 7.1 59.4 89.2#





#39

1,2-Dichloropropane

Concen: 6.465 ppbv

RT: 3.965 min Scan# 1198

Delta R.T. -0.346 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

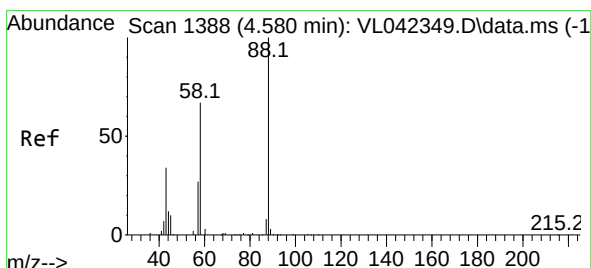
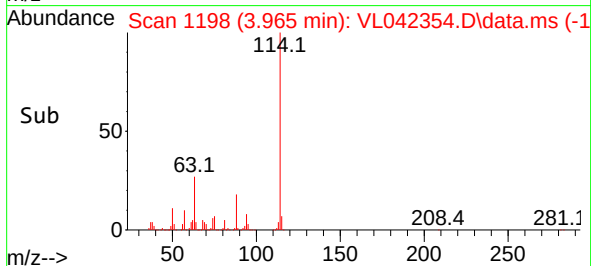
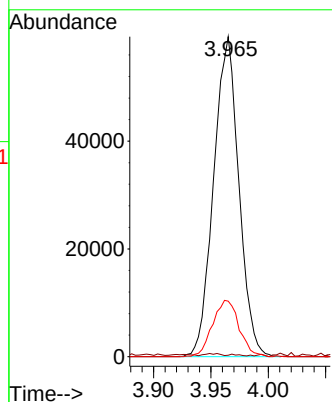
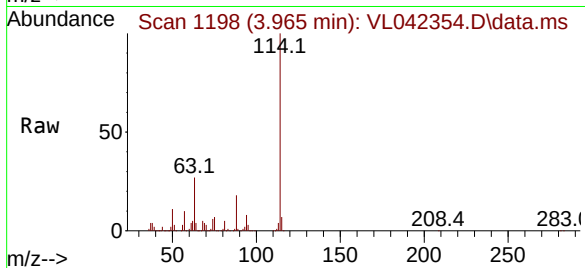
Tgt Ion: 63 Resp: 90827

Ion Ratio Lower Upper

63 100

41 0.0 64.2 96.2#

62 17.4 54.3 81.5#



#40

1,4-Dioxane

Concen: 0.018 ppbv

RT: 4.625 min Scan# 1402

Delta R.T. 0.045 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

Tgt Ion: 88 Resp: 139

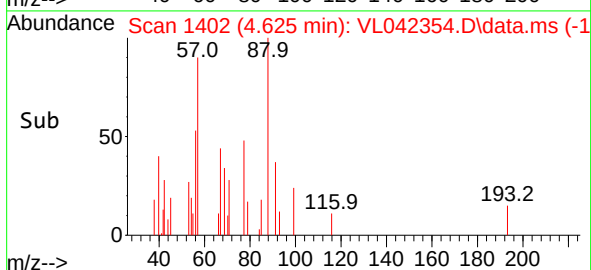
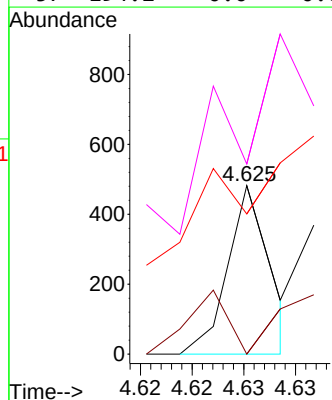
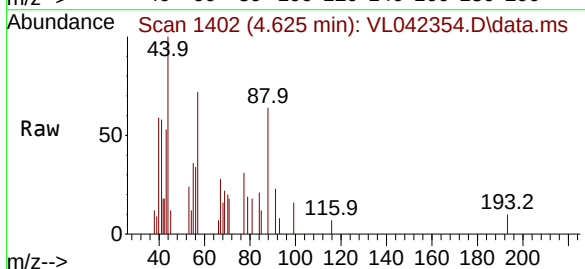
Ion Ratio Lower Upper

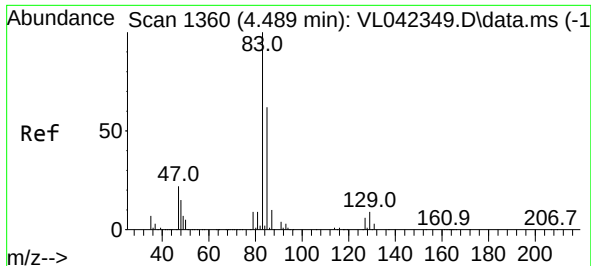
88 100

58 0.0 61.4 92.0#

43 251.8 23.2 34.8#

57 194.2 0.0 0.0#

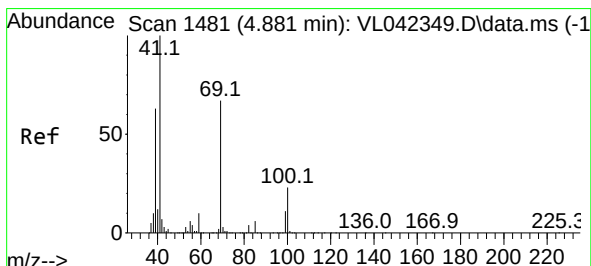
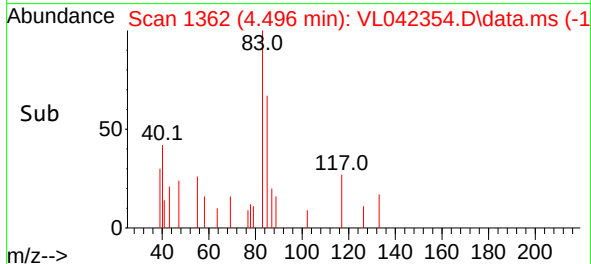
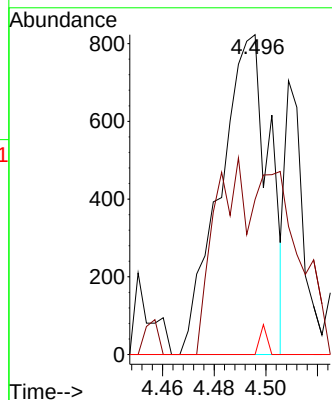
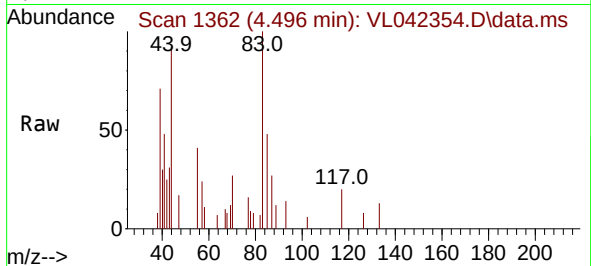




#42
Bromodichloromethane
Concen: 0.035 ppbv
RT: 4.496 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

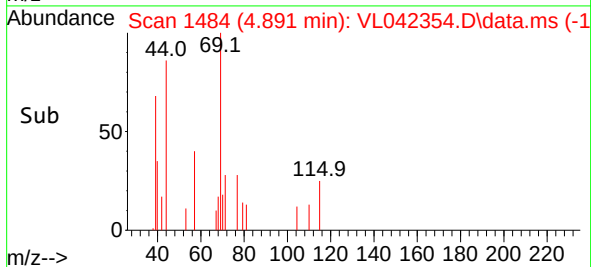
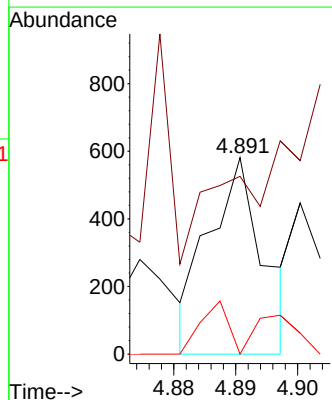
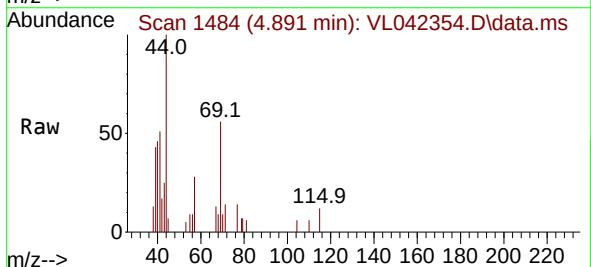
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

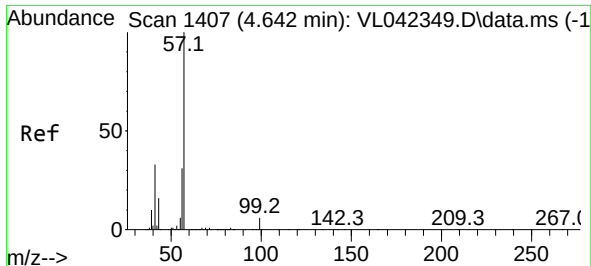
Tgt Ion: 83 Resp: 1093
Ion Ratio Lower Upper
83 100
85 48.5 49.7 74.5#
127 0.0 5.1 7.7#



#43
Methyl Methacrylate
Concen: 0.021 ppbv
RT: 4.891 min Scan# 1484
Delta R.T. 0.010 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 69 Resp: 354
Ion Ratio Lower Upper
69 100
41 0.0 118.6 177.8#
100 40.7 28.2 42.2

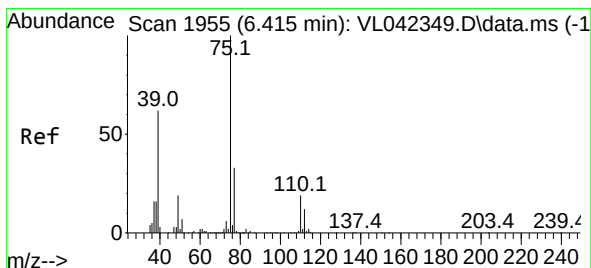
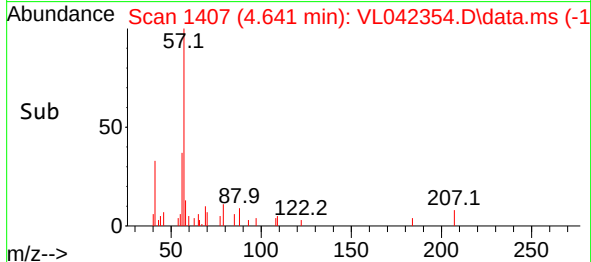
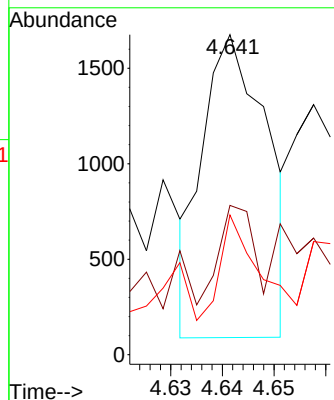
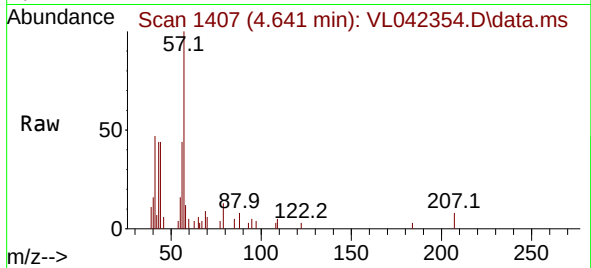




#44
2,2,4-Trimethylpentane
Concen: 0.021 ppbv
RT: 4.641 min Scan# 1407
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

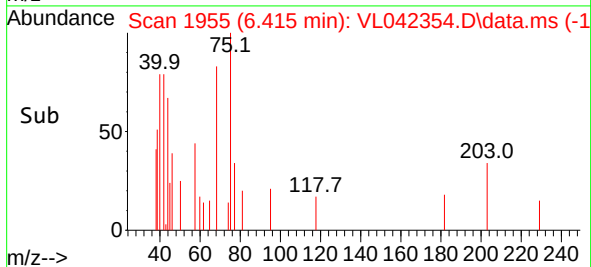
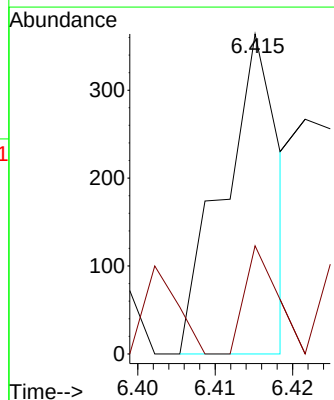
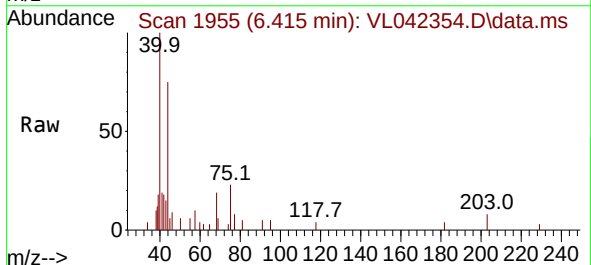
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.03

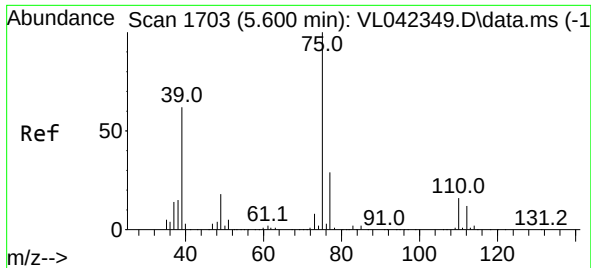
Tgt Ion: 57 Resp: 1377
Ion Ratio Lower Upper
57 100
41 0.0 27.2 40.8#
56 139.0 25.7 38.5#



#45
t-1,3-Dichloropropene
Concen: 0.011 ppbv
RT: 6.415 min Scan# 1955
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 75 Resp: 183
Ion Ratio Lower Upper
75 100
77 33.8 27.0 40.6

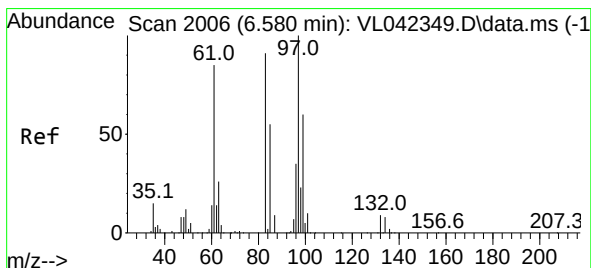
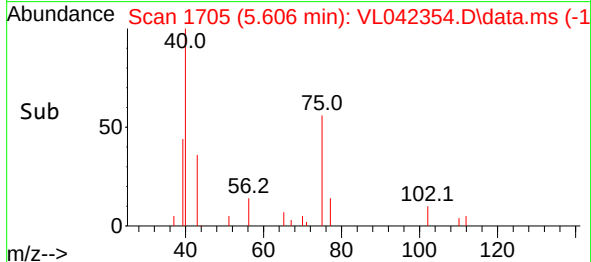
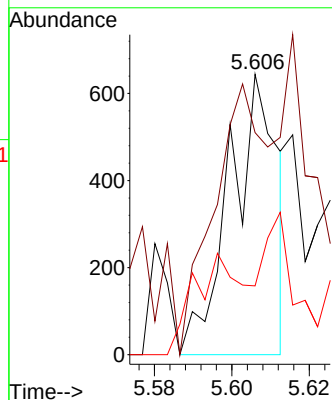
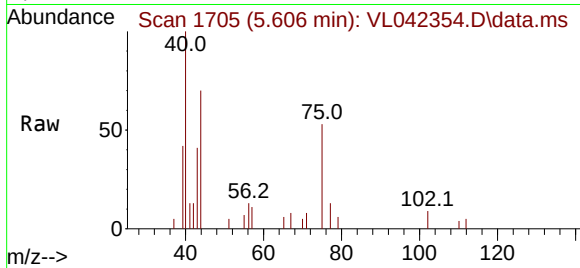




#46
 cis-1,3-Dichloropropene
 Concen: 0.026 ppbv
 RT: 5.606 min Scan# 1
 Delta R.T. 0.006 min
 Lab File: VL042354.D
 Acq: 17 Apr 2025 12:22

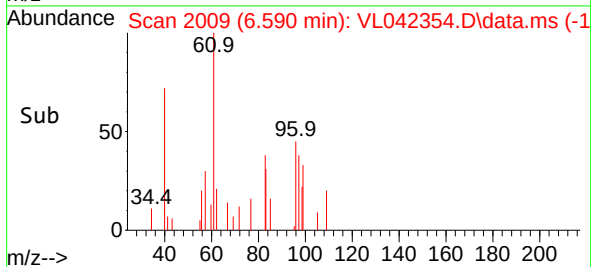
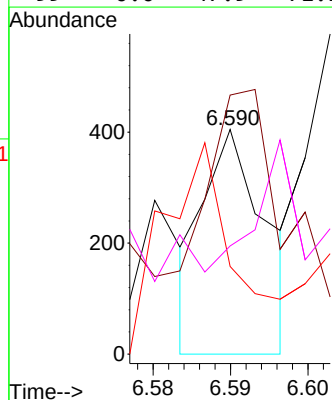
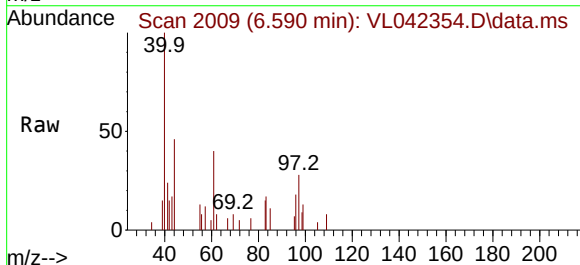
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

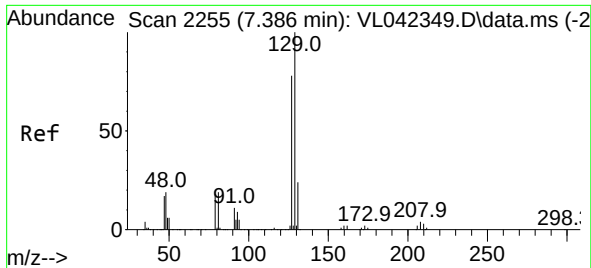
Tgt Ion: 75 Resp: 546
 Ion Ratio Lower Upper
 75 100
 39 1.7 50.0 75.0#
 77 13.7 23.0 34.6#



#47
 1,1,2-Trichloroethane
 Concen: 0.016 ppbv
 RT: 6.590 min Scan# 2009
 Delta R.T. 0.010 min
 Lab File: VL042354.D
 Acq: 17 Apr 2025 12:22

Tgt Ion: 97 Resp: 225
 Ion Ratio Lower Upper
 97 100
 83 149.5 72.8 109.2#
 85 27.8 44.2 66.4#
 99 0.0 47.9 71.9#

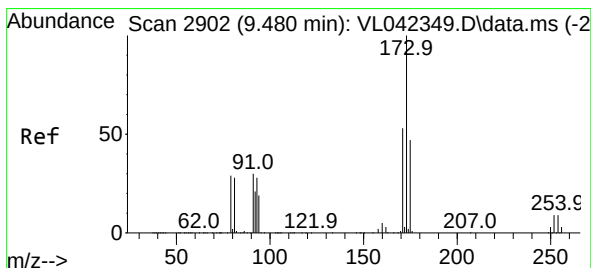
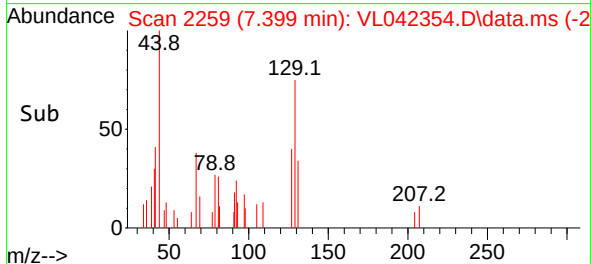
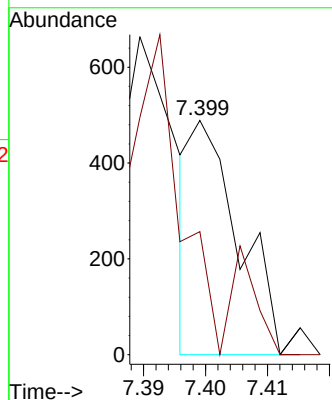
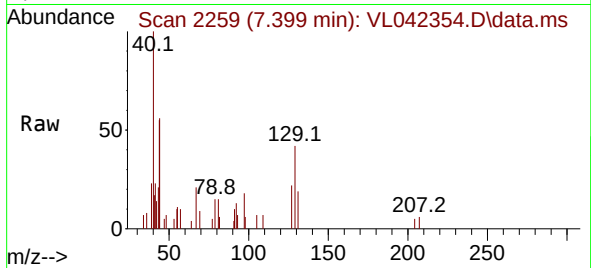




#48
 Dibromochloromethane
 Concen: 0.010 ppbv
 RT: 7.399 min Scan# 21
 Delta R.T. 0.013 min
 Lab File: VL042354.D
 Acq: 17 Apr 2025 12:22

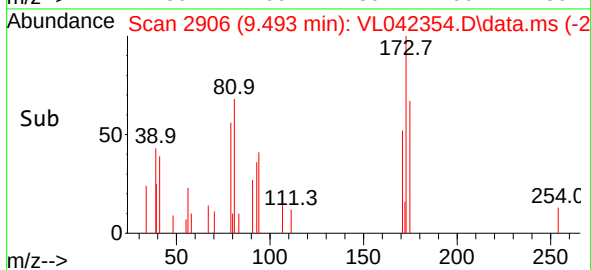
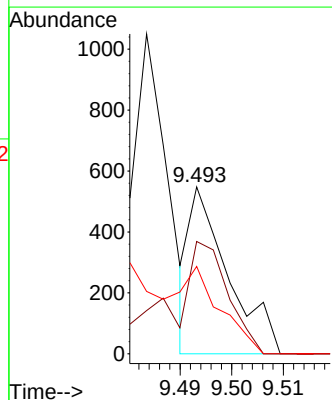
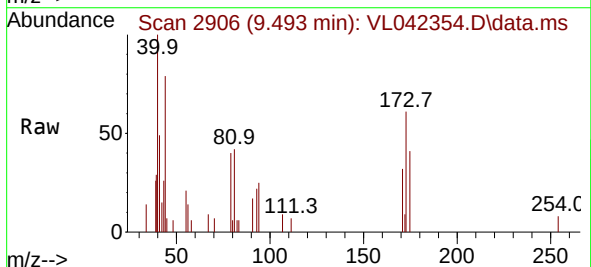
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

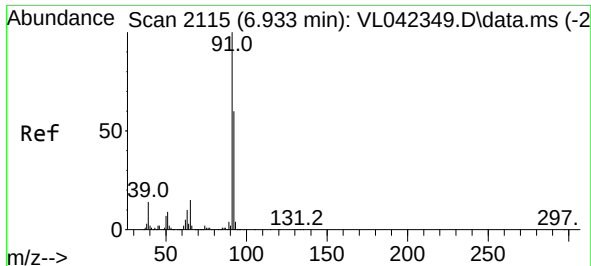
Tgt Ion:129 Resp: 258
 Ion Ratio Lower Upper
 129 100
 127 0.0 39.1 117.3#



#49
 Bromoform
 Concen: 0.013 ppbv
 RT: 9.493 min Scan# 2906
 Delta R.T. 0.013 min
 Lab File: VL042354.D
 Acq: 17 Apr 2025 12:22

Tgt Ion:173 Resp: 285
 Ion Ratio Lower Upper
 173 100
 175 145.3 38.2 57.2#
 171 11.9 40.9 61.3#





#53

Toluene

Concen: 0.010 ppbv

RT: 6.943 min Scan# 2115

Delta R.T. 0.010 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

Instrument :

MSVOA_L

ClientSampleId :

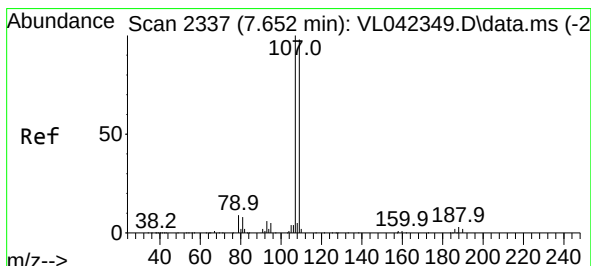
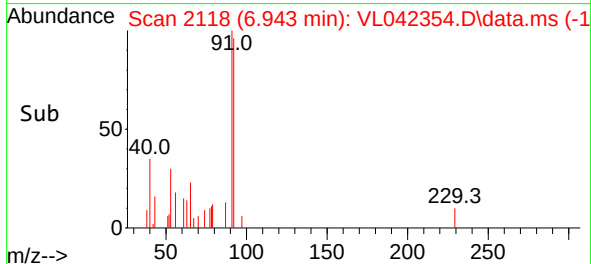
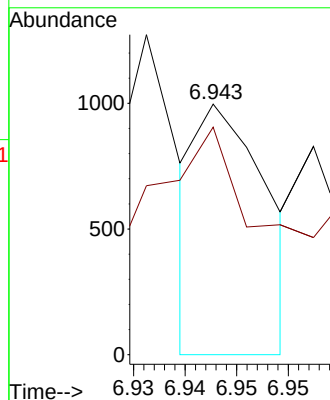
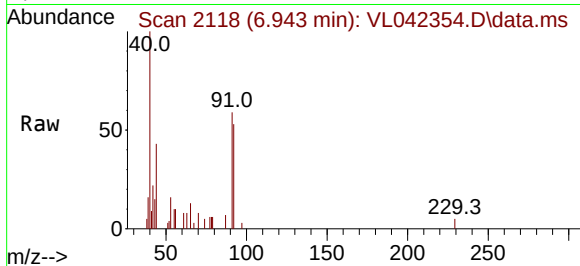
VSTDIC0.03

Tgt Ion: 91 Resp: 464

Ion Ratio Lower Upper

91 100

92 289.2 48.2 72.4#



#54

1,2-Dibromoethane

Concen: 0.021 ppbv

RT: 7.668 min Scan# 2342

Delta R.T. 0.016 min

Lab File: VL042354.D

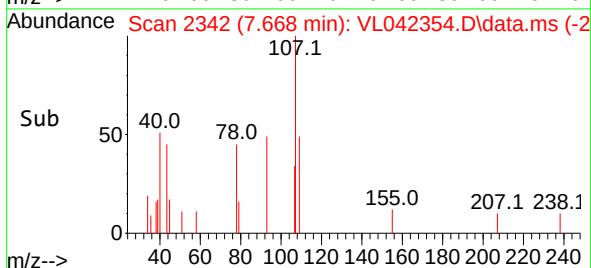
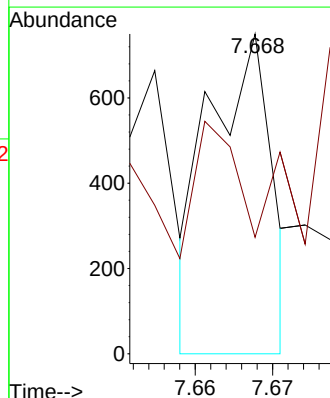
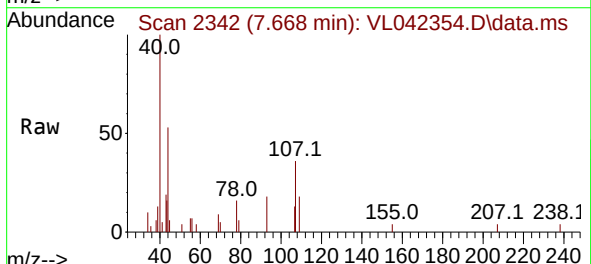
Acq: 17 Apr 2025 12:22

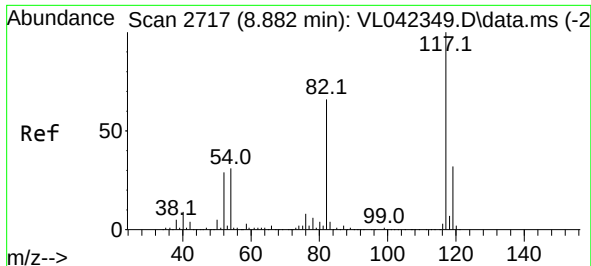
Tgt Ion: 107 Resp: 422

Ion Ratio Lower Upper

107 100

109 10.4 78.2 117.4#

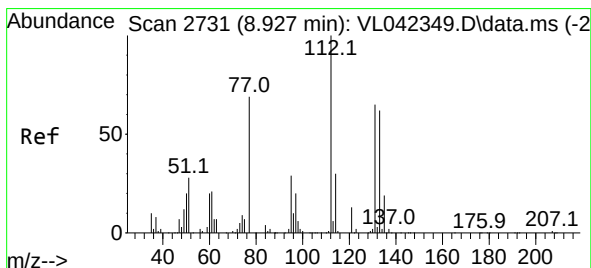
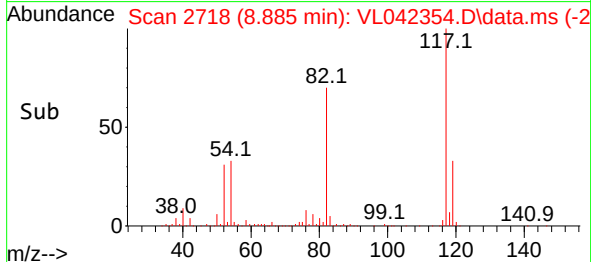
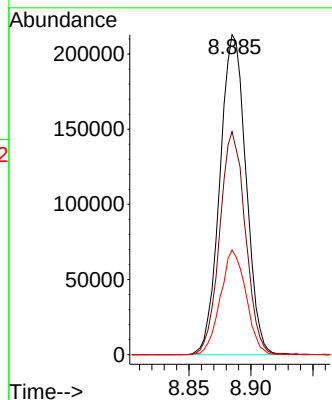
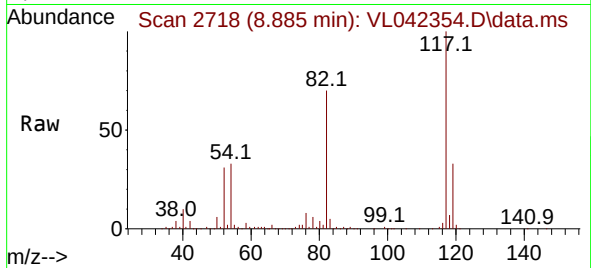




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2717
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

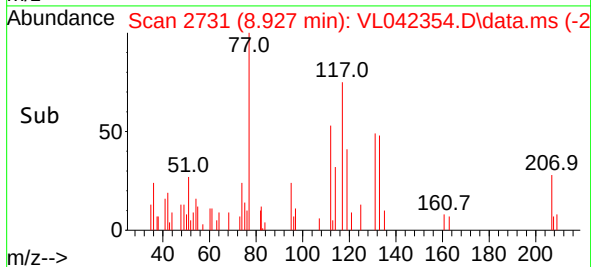
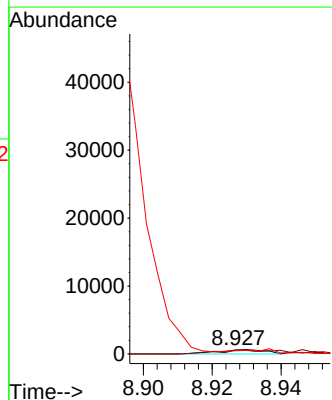
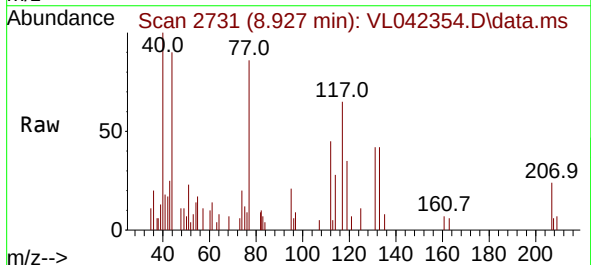
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

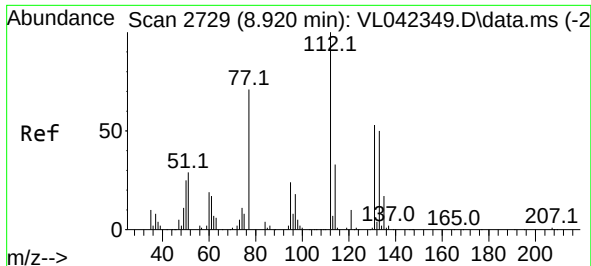
Tgt Ion:117 Resp: 312999
Ion Ratio Lower Upper
117 100
82 68.5 57.8 86.6
119 32.2 25.2 37.8



#56
1,1,1,2-Tetrachloroethane
Concen: 0.031 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion:131 Resp: 589
Ion Ratio Lower Upper
131 100
133 185.9 78.3 117.5#
119 17165.0 48.7 73.1#

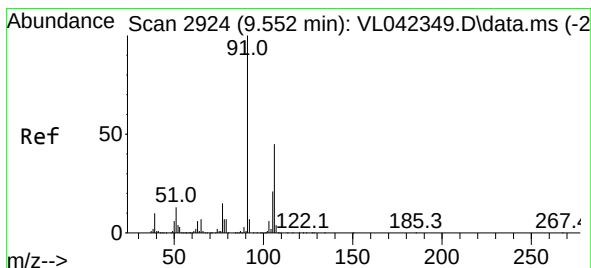
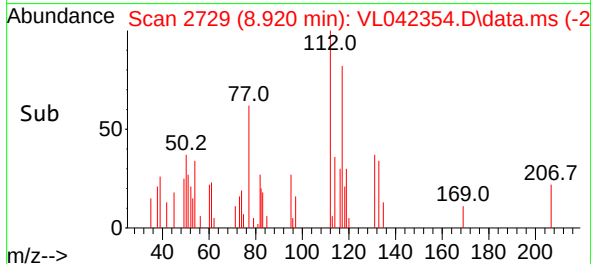
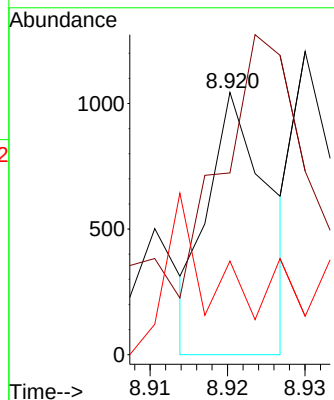
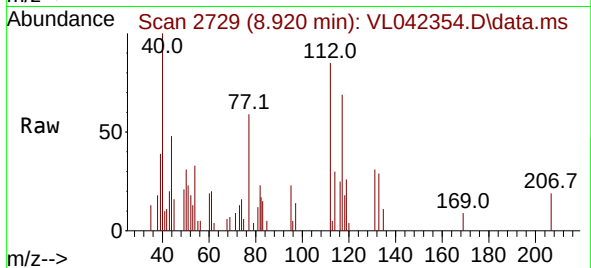




#57
Chlorobenzene
Concen: 0.017 ppbv
RT: 8.920 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

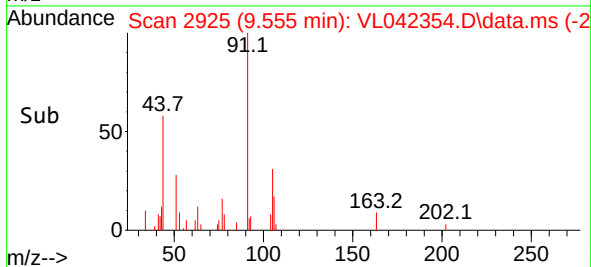
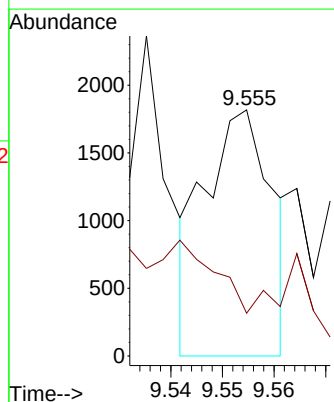
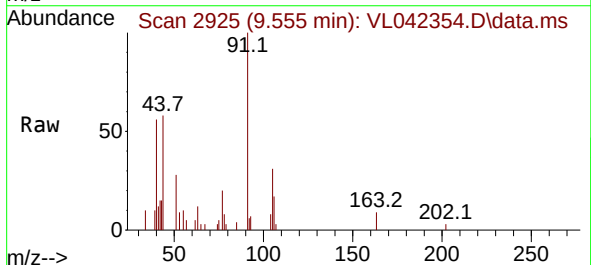
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

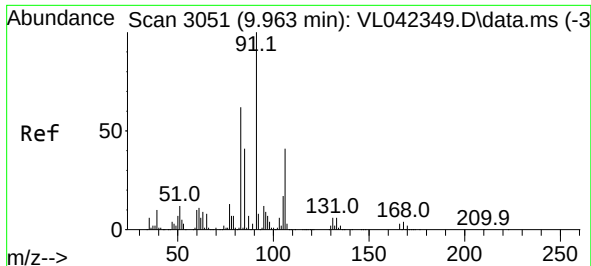
Tgt Ion:112 Resp: 567
Ion Ratio Lower Upper
112 100
77 62.5 57.8 86.6
114 0.0 29.3 35.9#



#59
m/p-Xylene
Concen: 0.033 ppbv
RT: 9.555 min Scan# 2925
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 91 Resp: 1648
Ion Ratio Lower Upper
91 100
106 0.0 35.4 53.2#

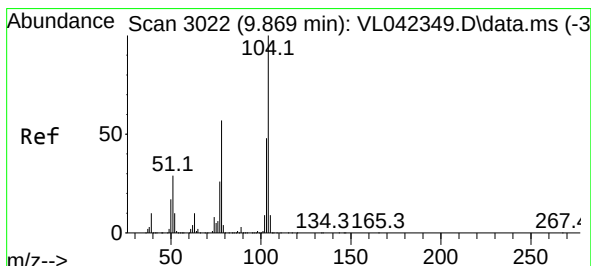
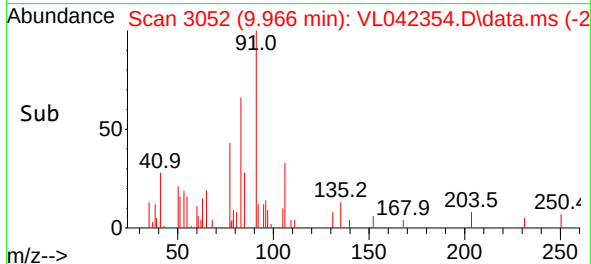
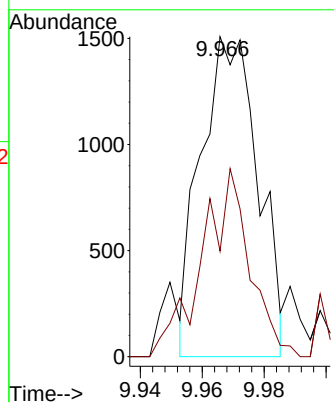
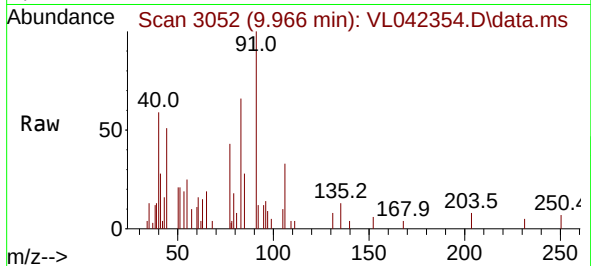




#60
o-Xylene
Concen: 0.039 ppbv
RT: 9.966 min Scan# 3051
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

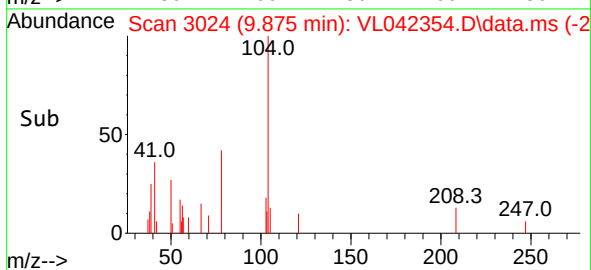
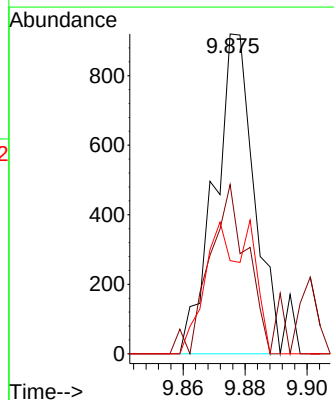
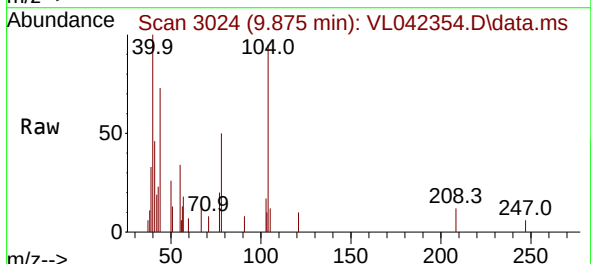
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

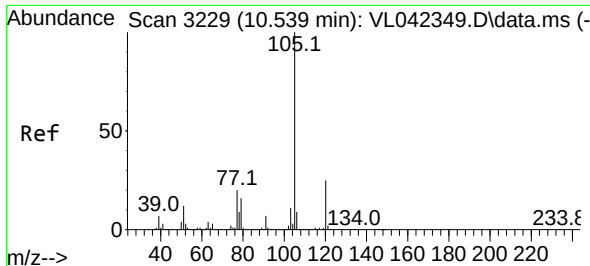
Tgt Ion: 91 Resp: 1938
Ion Ratio Lower Upper
91 100
106 52.6 21.1 63.4



#61
Styrene
Concen: 0.034 ppbv
RT: 9.875 min Scan# 3024
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 104 Resp: 813
Ion Ratio Lower Upper
104 100
78 64.9 44.6 66.8
103 47.1 37.4 56.0

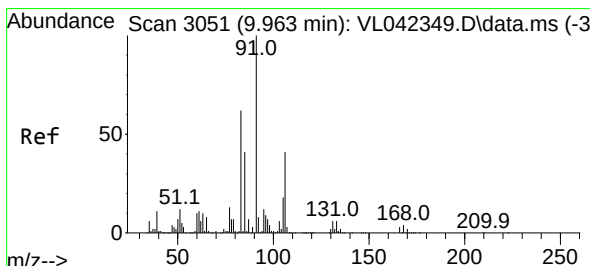
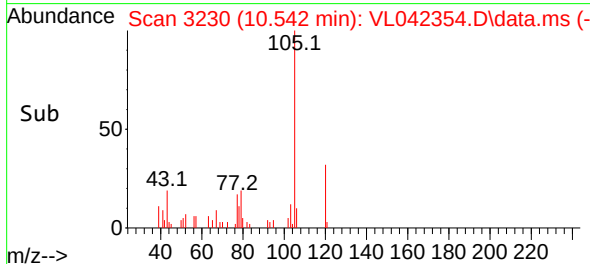
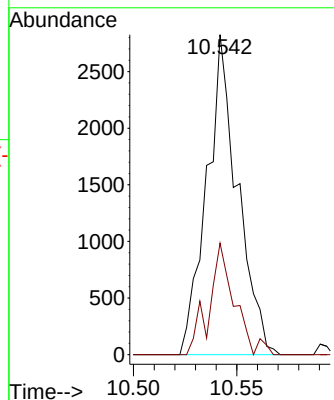
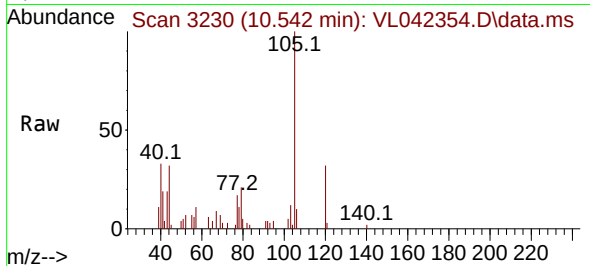




#62
Isopropylbenzene
Concen: 0.040 ppbv
RT: 10.542 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

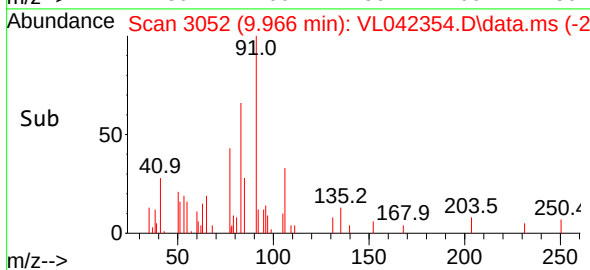
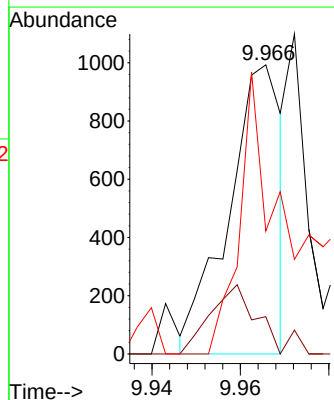
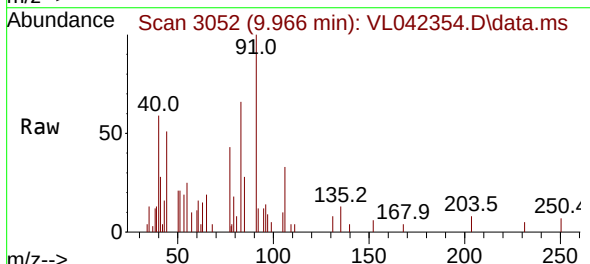
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.03

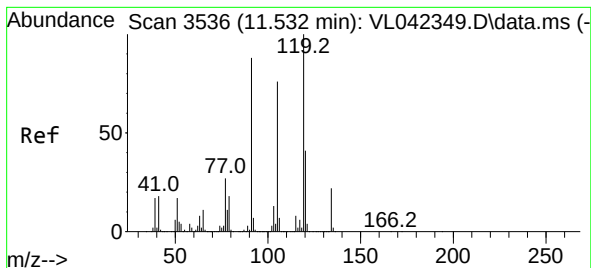
Tgt Ion: 105 Resp: 2934
Ion Ratio Lower Upper
105 100
120 28.8 19.8 29.8



#63
1,1,2,2-Tetrachloroethane
Concen: 0.025 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 83 Resp: 826
Ion Ratio Lower Upper
83 100
131 22.3 4.5 13.7#
85 98.2 32.4 97.0#





#65

tert-Butylbenzene

Concen: 0.039 ppbv

RT: 11.536 min Scan# 3536

Delta R.T. 0.003 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

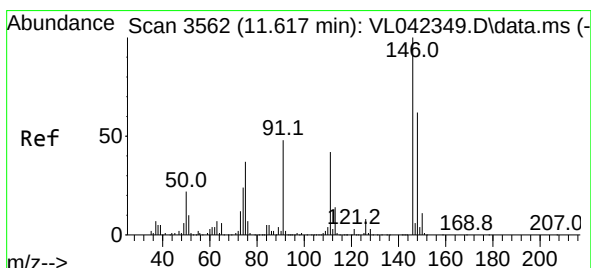
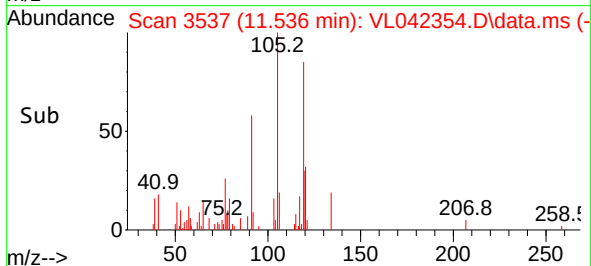
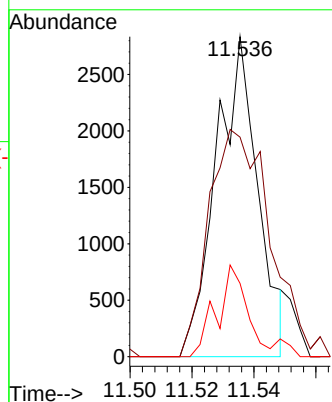
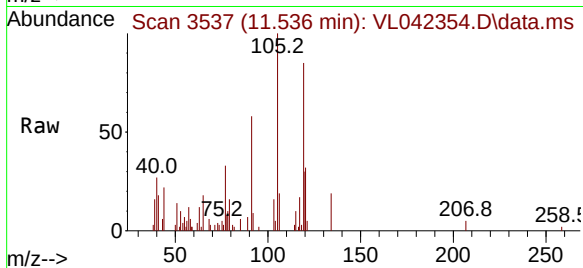
Tgt Ion:119 Resp: 2656

Ion Ratio Lower Upper

119 100

91 104.4 74.6 111.8

134 22.5 18.8 28.2



#66

Benzyl Chloride

Concen: 0.017 ppbv

RT: 11.620 min Scan# 3563

Delta R.T. 0.003 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

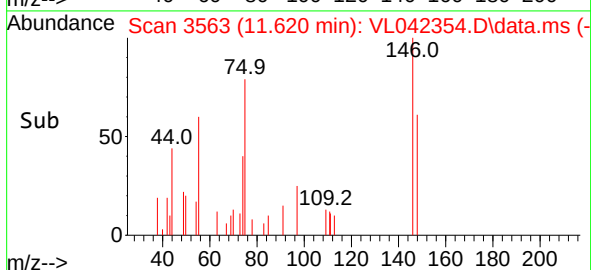
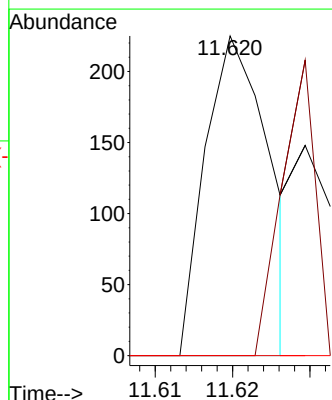
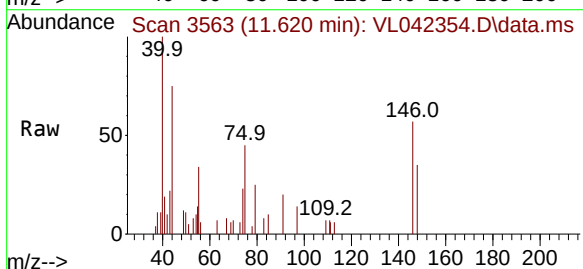
Tgt Ion: 91 Resp: 130

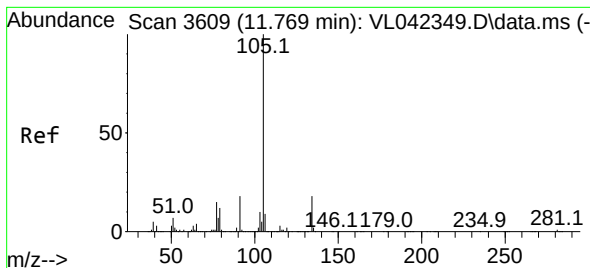
Ion Ratio Lower Upper

91 100

126 0.0 11.8 17.6#

128 0.0 4.5 6.7#





#67

sec-Butylbenzene

Concen: 0.039 ppbv

RT: 11.772 min Scan# 3

Delta R.T. 0.003 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

Instrument :

MSVOA_1

ClientSampleId :

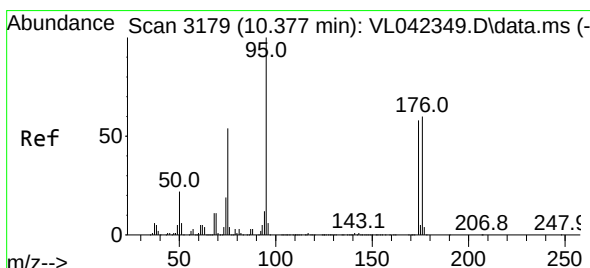
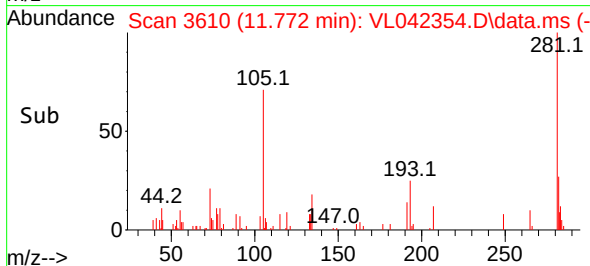
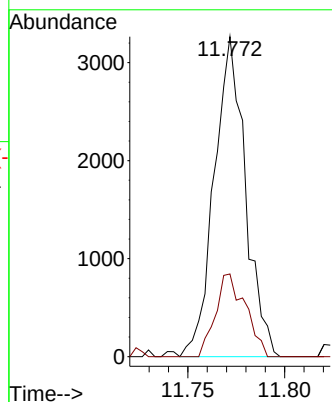
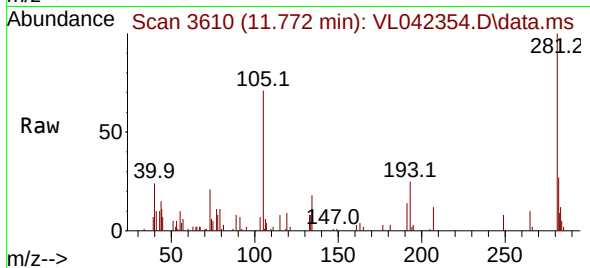
VSTDIC0.03

Tgt Ion:105 Resp: 3658

Ion Ratio Lower Upper

105 100

134 24.8 14.6 21.8#



#68

1-Bromo-4-Fluorobenzene

Concen: 9.962 ppbv

RT: 10.380 min Scan# 3180

Delta R.T. 0.003 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

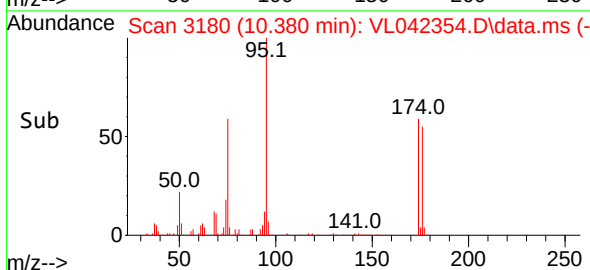
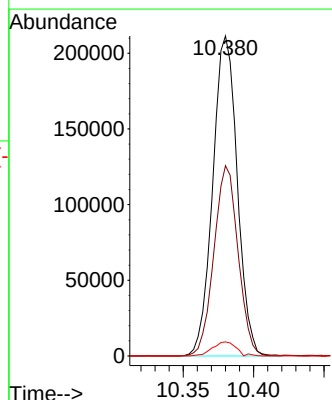
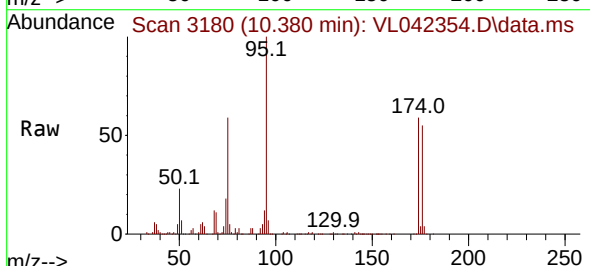
Tgt Ion: 95 Resp: 256230

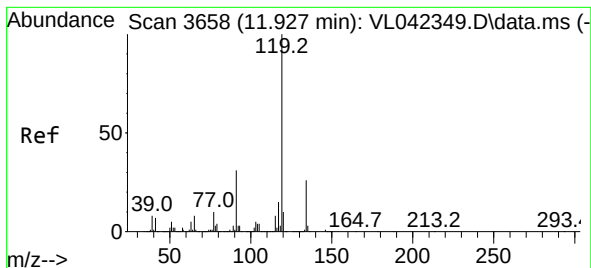
Ion Ratio Lower Upper

95 100

174 58.6 48.5 72.7

175 4.3 3.7 5.5





#69

p-Isopropyltoluene

Concen: 0.038 ppbv

RT: 11.930 min Scan# 3659

Delta R.T. 0.003 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

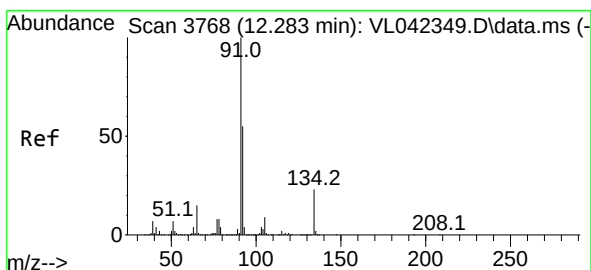
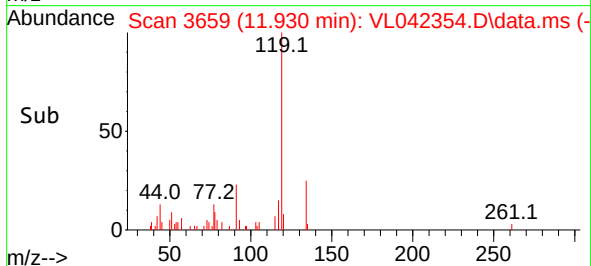
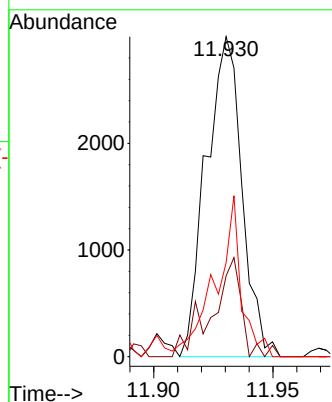
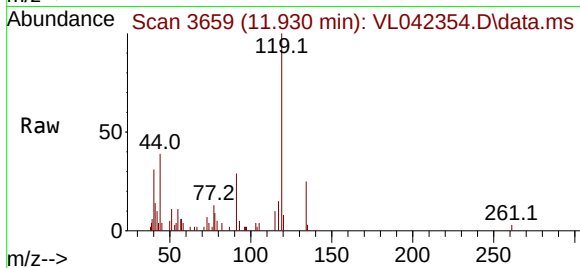
Tgt Ion:119 Resp: 3139

Ion Ratio Lower Upper

119 100

134 25.9 20.0 30.0

91 35.7 24.4 36.6



#70

n-Butylbenzene

Concen: 0.029 ppbv

RT: 12.290 min Scan# 3770

Delta R.T. 0.006 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

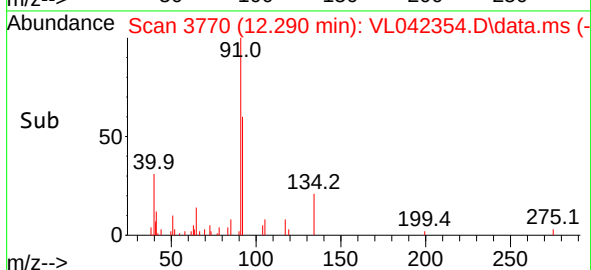
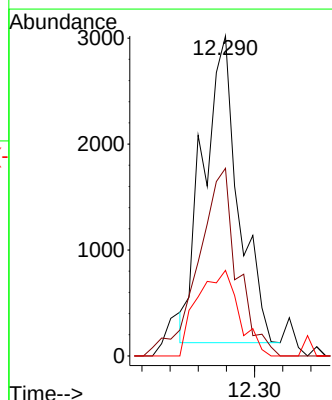
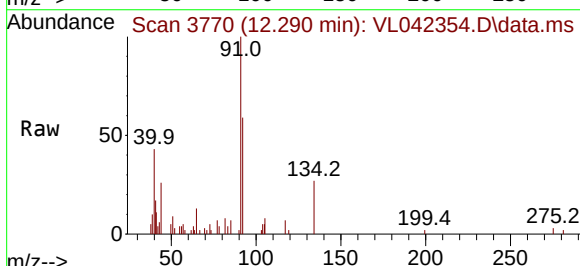
Tgt Ion: 91 Resp: 2516

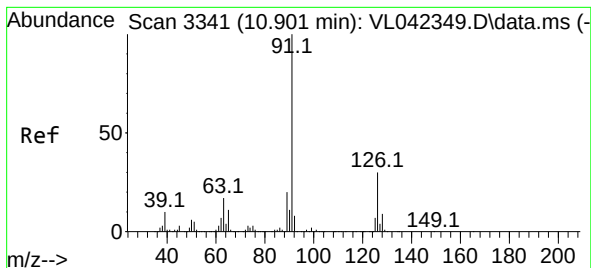
Ion Ratio Lower Upper

91 100

92 67.4 44.2 66.4#

134 34.4 18.2 27.4#

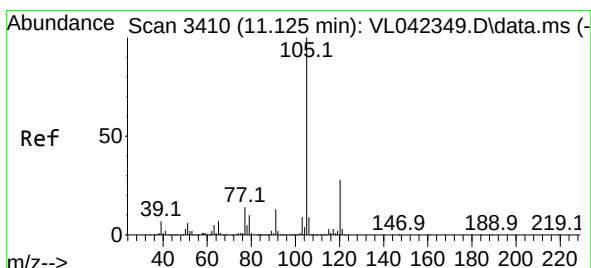
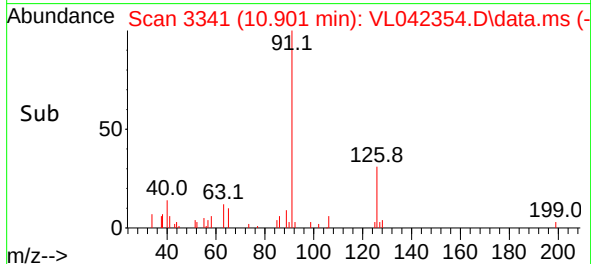
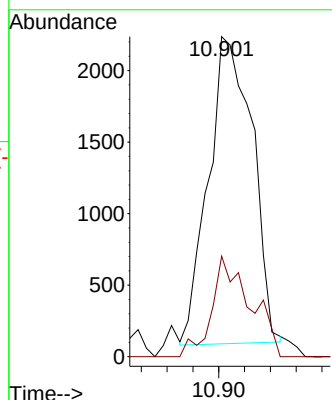
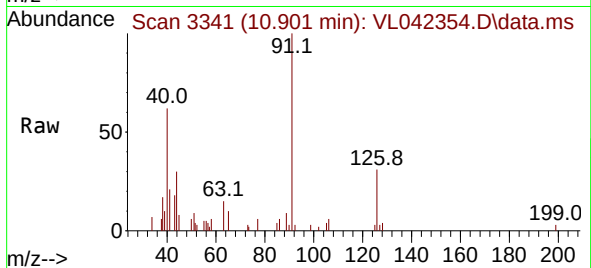




#71
2-Chlorotoluene
Concen: 0.044 ppbv
RT: 10.901 min Scan# 311
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

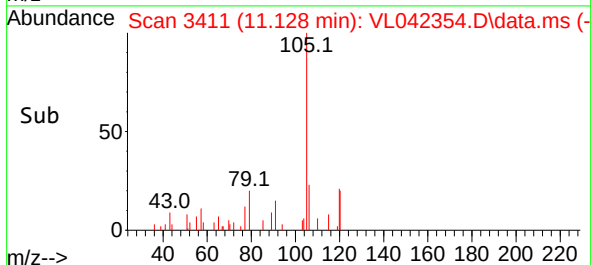
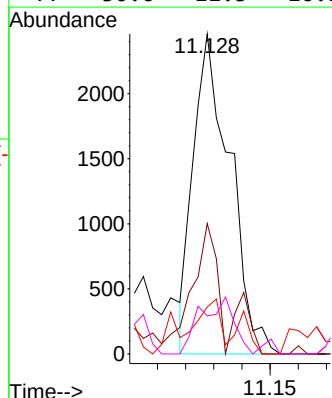
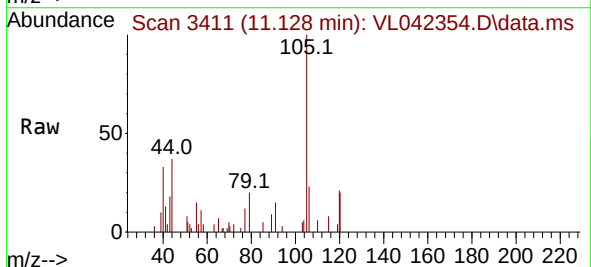
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.03

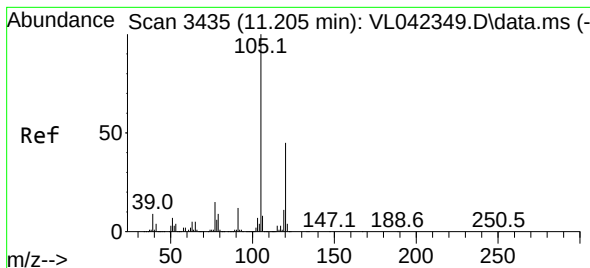
Tgt Ion: 91 Resp: 2537
Ion Ratio Lower Upper
91 100
126 28.7 11.4 45.4



#72
4-Ethyltoluene
Concen: 0.036 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 105 Resp: 2221
Ion Ratio Lower Upper
105 100
120 47.5 23.2 34.8#
91 8.3 10.4 15.6#
77 30.6 11.3 16.9#





#73

1,3,5-Trimethylbenzene

Concen: 0.046 ppbv

RT: 11.212 min Scan# 3437

Delta R.T. 0.006 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

Instrument :

MSVOA_1

ClientSampleId :

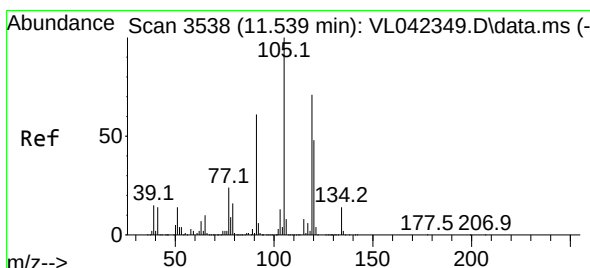
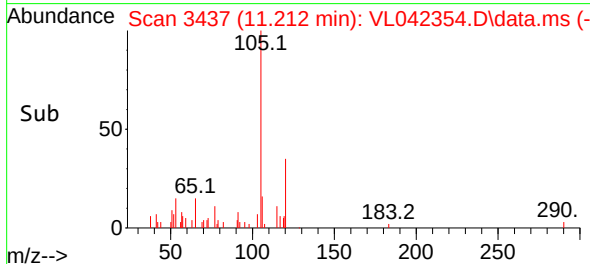
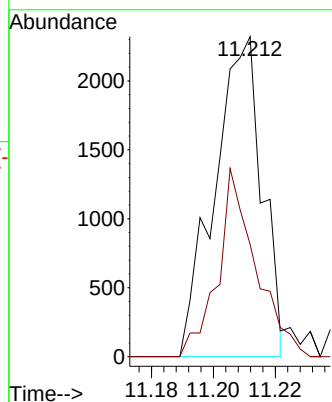
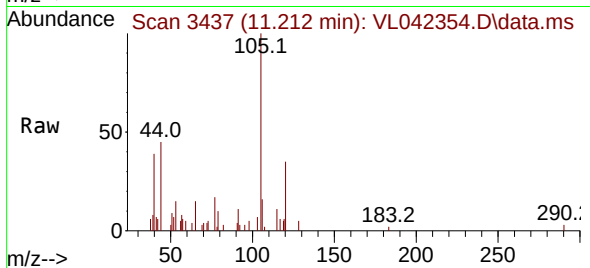
VSTDIC0.03

Tgt Ion:105 Resp: 2473

Ion Ratio Lower Upper

105 100

120 35.1 35.6 53.4#



#74

1,2,4-Trimethylbenzene

Concen: 0.068 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. -0.000 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

Tgt Ion:105 Resp: 4320

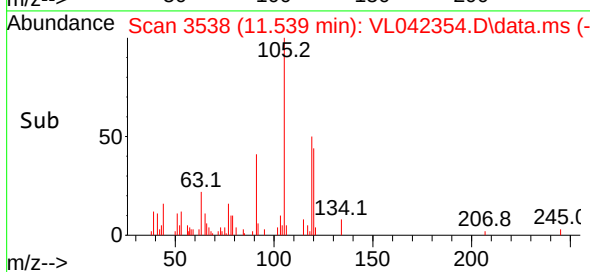
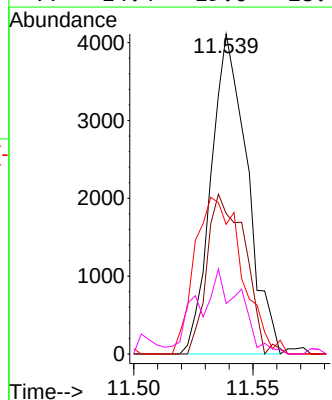
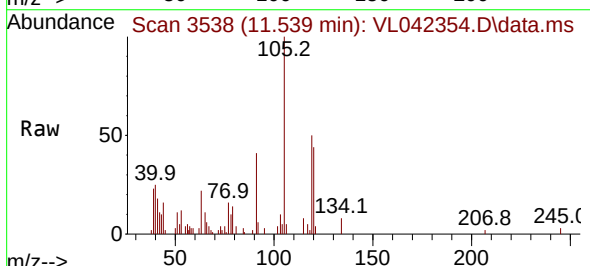
Ion Ratio Lower Upper

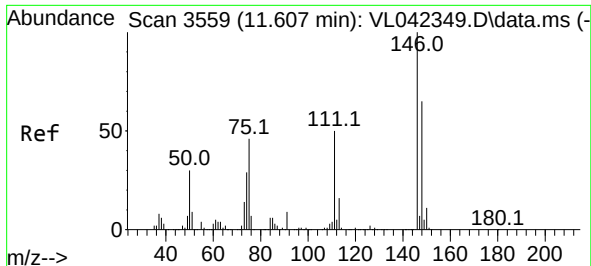
105 100

120 43.9 38.1 57.1

91 36.2 48.8 73.2#

77 14.4 19.0 28.4#

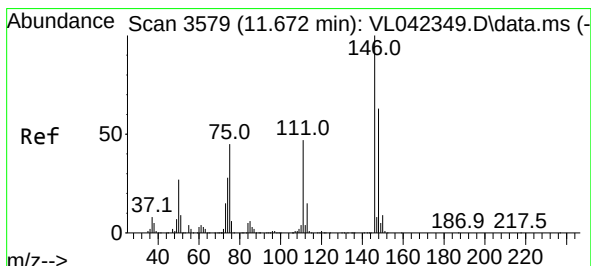
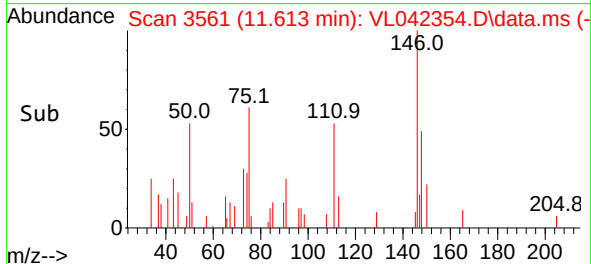
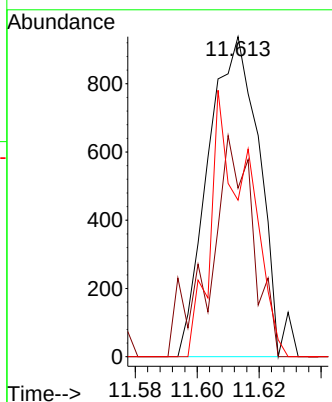
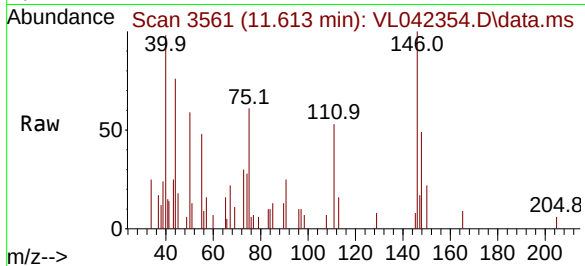




#75
1,3-Dichlorobenzene
Concen: 0.032 ppbv
RT: 11.613 min Scan# 3559
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

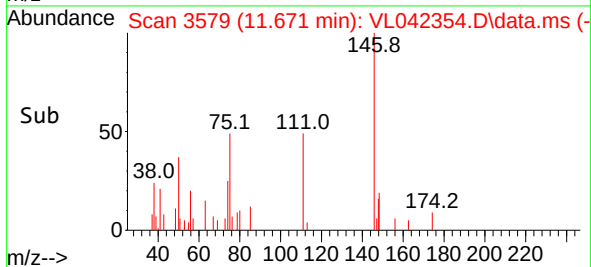
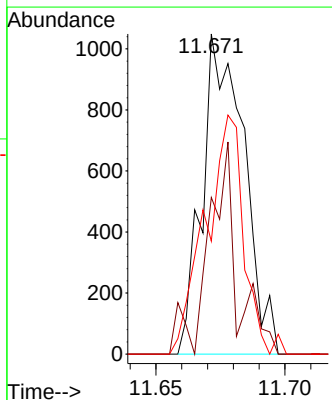
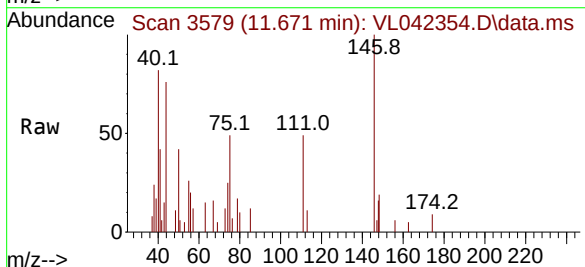
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

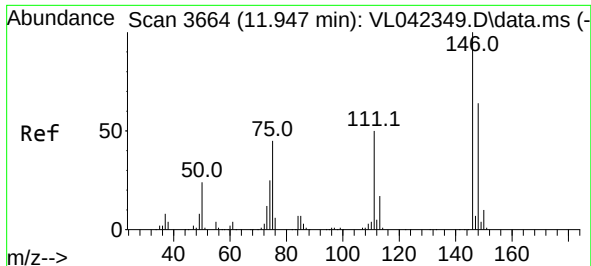
Tgt Ion:146 Resp: 1056
Ion Ratio Lower Upper
146 100
111 61.1 24.3 72.8
148 62.4 31.6 94.8



#76
1,4-Dichlorobenzene
Concen: 0.036 ppbv
RT: 11.671 min Scan# 3579
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion:146 Resp: 1180
Ion Ratio Lower Upper
146 100
111 45.4 24.2 72.6
148 68.3 32.1 96.5

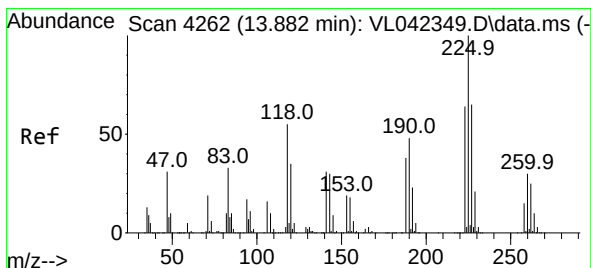
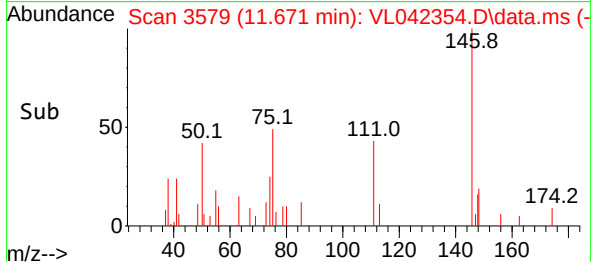
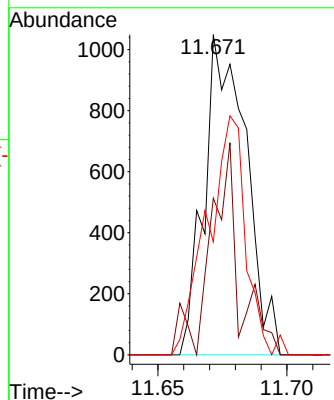
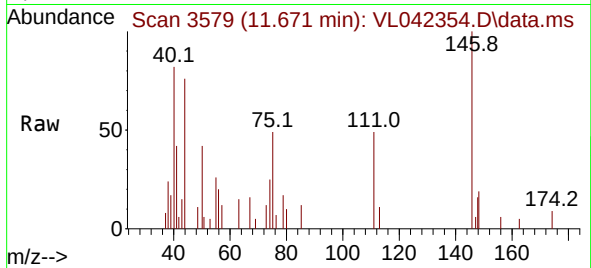




#77
1,2-Dichlorobenzene
Concen: 0.037 ppbv
RT: 11.671 min Scan# 311
Delta R.T. -0.275 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

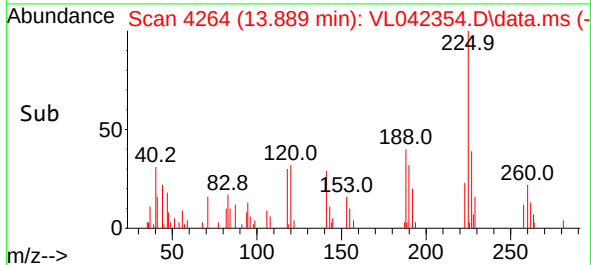
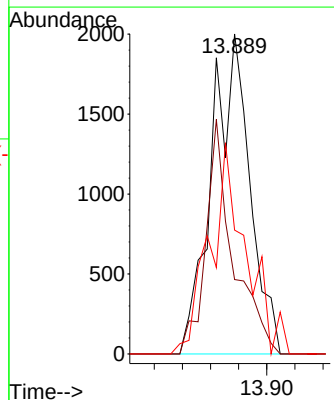
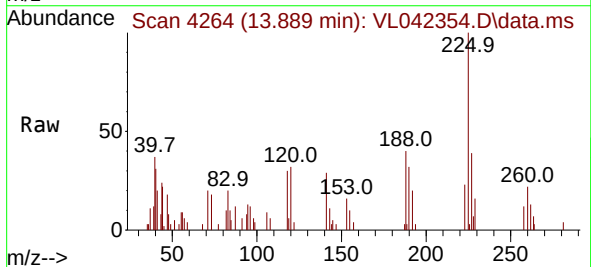
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

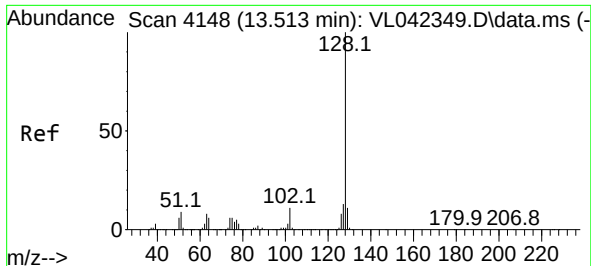
Tgt Ion:146 Resp: 1180
Ion Ratio Lower Upper
146 100
111 45.4 25.3 75.9
148 68.3 31.5 94.5



#78
Hexachloro-1,3-Butadiene
Concen: 0.058 ppbv
RT: 13.889 min Scan# 4264
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion:225 Resp: 1879
Ion Ratio Lower Upper
225 100
223 52.2 50.3 75.5
227 62.5 51.5 77.3

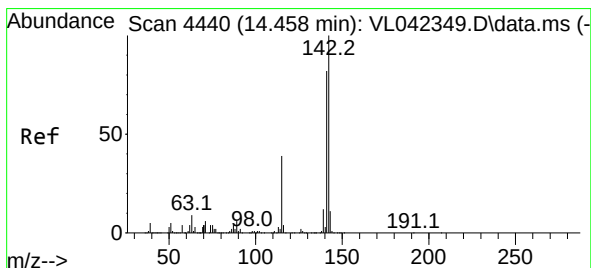
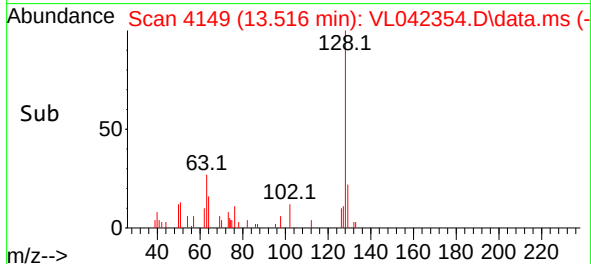
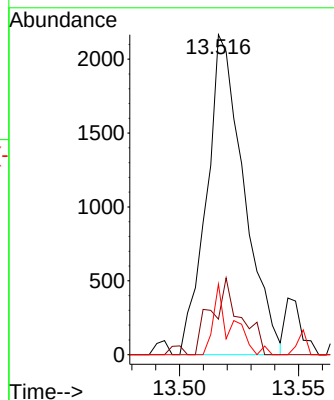
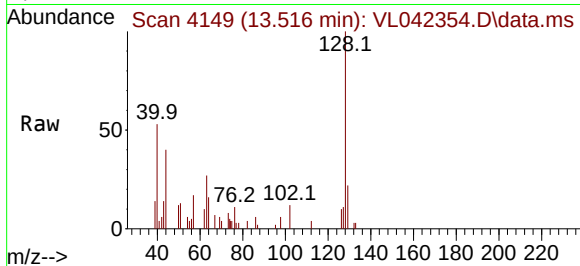




#79
Naphthalene
Concen: 0.031 ppbv
RT: 13.516 min Scan# 4148
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

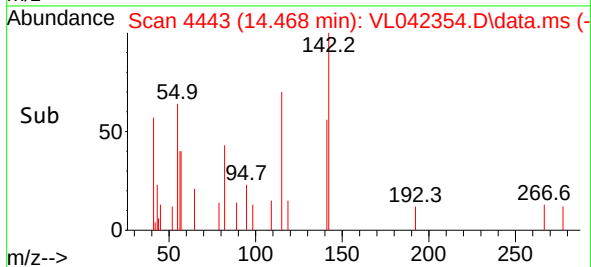
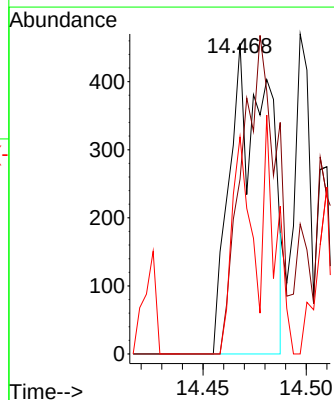
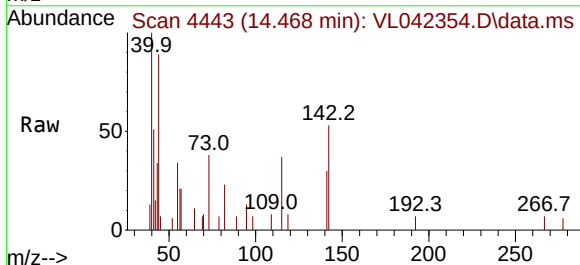
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

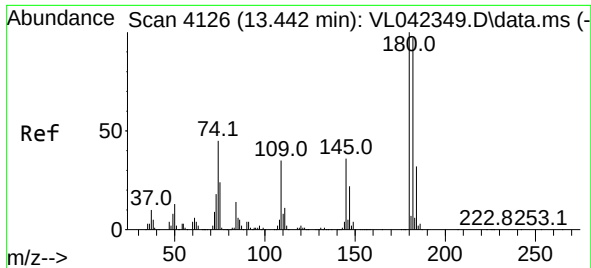
Tgt Ion:128 Resp: 2354
Ion Ratio Lower Upper
128 100
127 11.1 10.6 15.8
129 22.1 8.6 12.8#



#80
Naphthalene,2-methyl-
Concen: 0.014 ppbv
RT: 14.468 min Scan# 4443
Delta R.T. 0.010 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

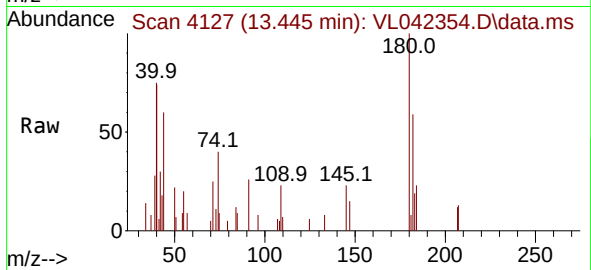
Tgt Ion:142 Resp: 594
Ion Ratio Lower Upper
142 100
141 136.0 66.8 100.2#
115 59.1 33.4 50.2#



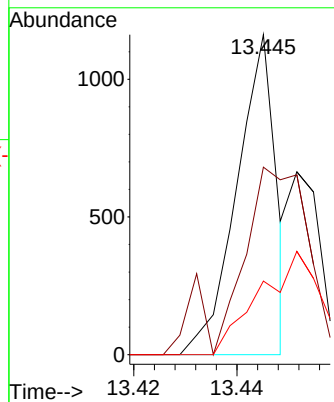
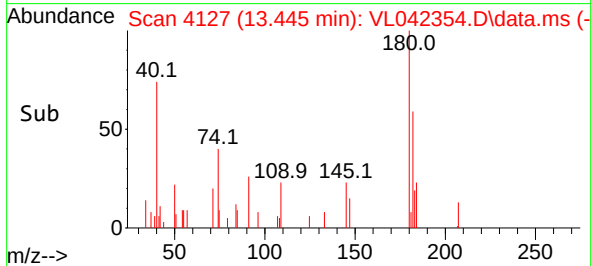


#81
 1,2,4-Trichlorobenzene
 Concen: 0.019 ppbv
 RT: 13.445 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL042354.D
 Acq: 17 Apr 2025 12:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03



Tgt Ion:180 Resp: 614
 Ion Ratio Lower Upper
 180 100
 182 116.4 76.8 115.2#
 184 0.0 24.6 36.8#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042355.D
 Acq On : 17 Apr 2025 12:54
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Quant Time: Apr 18 01:31:10 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 01:24:29 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	116071	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	332080	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	308463	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	254437	10.038	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.400%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	292784	14.277	ppbv	99
3) Chlorodifluoromethane	1.477	51	280042	14.341	ppbv	98
4) Chloromethane	1.532	50	115775	14.266	ppbv	99
5) Vinyl Chloride	1.580	62	112650	12.752	ppbv	100
6) Bromomethane	1.667	94	52805	13.800	ppbv	88
7) Chloroethane	1.703	64	44347	13.881	ppbv	98
8) Dichlorotetrafluoroethane	1.554	85	255029	14.484	ppbv	98
9) Propene	1.483	41	123102	13.842	ppbv	95
10) Heptane	4.979	43	336134	14.047	ppbv	100
11) Trichlorofluoromethane	1.875	101	278059	14.258	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.137	101	230366	14.447	ppbv	99
13) Ethanol	1.719	45	6324	8.702	ppbv	76
14) Bromoethene	1.781	108	84851	14.117	ppbv	99
15) Acetone	1.833	43	229086	12.056	ppbv	99
16) 1,3-Butadiene	1.609	39	117997	13.224	ppbv	96
17) tert-Butyl alcohol	2.040	59	320605	13.615	ppbv	99
18) 1,1-Dichloroethene	2.033	96	107666	14.045	ppbv	99
19) Isopropyl Alcohol	1.884	45	139004	13.169	ppbv	94
20) Methylene Chloride	2.059	84	91093	12.241	ppbv	90
21) Allyl Chloride	2.095	41	187995	14.329	ppbv	99
22) trans-1,2-Dichloroethene	2.341	96	118492	13.970	ppbv	94
23) Vinyl Acetate	2.460	43	106135	13.799	ppbv #	98
24) 1,1-Dichloroethane	2.409	63	235466	14.615	ppbv	99
25) Ethyl Acetate	2.836	43	663644	14.166	ppbv	100
26) Hexane	2.826	57	260975	13.765	ppbv	97
27) Carbon Disulfide	2.150	76	299098	14.734	ppbv	97
28) Methyl tert-Butyl Ether	2.438	73	174855	14.076	ppbv	95
29) Chloroform	2.849	83	385686	14.393	ppbv	99
30) Cyclohexane	3.855	84	217375	14.238	ppbv	98
31) cis-1,2-Dichloroethene	2.719	61	264972	14.700	ppbv	98
32) 1,1,1-Trichloroethane	3.367	97	412537	14.357	ppbv	99
34) 2-Butanone	2.558	43	367315	13.986	ppbv	100
35) Carbon Tetrachloride	3.762	117	409916	13.639	ppbv	94
36) Benzene	3.655	78	522156	14.578	ppbv	97
37) 1,2-Dichloroethane	3.218	62	319517	14.863	ppbv	100
38) Trichloroethene	4.548	130	208508	13.278	ppbv	98
39) 1,2-Dichloropropane	4.312	63	189697	14.201	ppbv	97
40) 1,4-Dioxane	4.580	88	92114	12.733	ppbv #	95
41) Tetrahydrofuran	3.053	42	214949	14.166	ppbv	98
42) Bromodichloromethane	4.490	83	442735	14.798	ppbv	95
43) Methyl Methacrylate	4.878	69	219757	13.670	ppbv	95
44) 2,2,4-Trimethylpentane	4.642	57	893529	14.425	ppbv	99
45) t-1,3-Dichloropropene	6.412	75	244470	14.810	ppbv	94

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042355.D
 Acq On : 17 Apr 2025 12:54
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

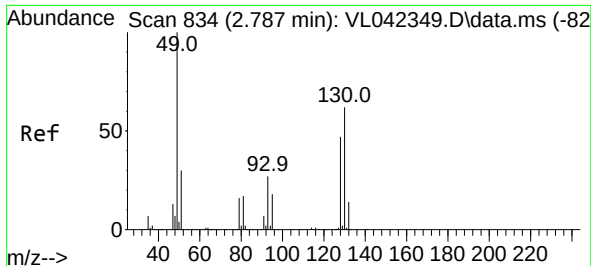
Quant Time: Apr 18 01:31:10 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 01:24:29 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.600	75	300145	14.878	ppbv	90
47) 1,1,2-Trichloroethane	6.581	97	198874	14.615	ppbv	98
48) Dibromochloromethane	7.390	129	362887	15.105	ppbv	98
49) Bromoform	9.484	173	312282	14.865	ppbv	99
50) 4-Methyl-2-Pentanone	5.749	43	563658	12.889	ppbv	99
51) 2-Hexanone	7.435	43	467001	11.834	ppbv #	98
52) Tetrachloroethene	8.225	164	180631	13.046	ppbv	97
53) Toluene	6.933	91	619420	14.411	ppbv	99
54) 1,2-Dibromoethane	7.652	107	280071	14.442	ppbv	92
56) 1,1,1,2-Tetrachloroethane	8.927	131	268626	14.389	ppbv	97
57) Chlorobenzene	8.921	112	454017	14.151	ppbv	97
58) Ethyl Benzene	9.354	91	874424	14.308	ppbv	100
59) m/p-Xylene	9.552	91	645250	13.067	ppbv #	21
60) o-Xylene	9.963	91	689246	13.902	ppbv	99
61) Styrene	9.872	104	339508	14.347	ppbv	99
62) Isopropylbenzene	10.539	105	1018968	13.999	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.963	83	412898	12.816	ppbv	100
64) n-propylbenzene	10.989	120	260812	14.255	ppbv	94
65) tert-Butylbenzene	11.533	119	899720	13.449	ppbv	93
66) Benzyl Chloride	11.617	91	96016	13.061	ppbv	96
67) sec-Butylbenzene	11.769	105	1253263	13.468	ppbv	100
69) p-Isopropyltoluene	11.928	119	1081850	13.382	ppbv	99
70) n-Butylbenzene	12.284	91	1117042	13.266	ppbv	100
71) 2-Chlorotoluene	10.902	91	806728	14.131	ppbv	100
72) 4-Ethyltoluene	11.125	105	848077	13.992	ppbv	99
73) 1,3,5-Trimethylbenzene	11.206	105	726558	13.578	ppbv	99
74) 1,2,4-Trimethylbenzene	11.539	105	785772	12.572	ppbv	97
75) 1,3-Dichlorobenzene	11.610	146	444086	13.670	ppbv	99
76) 1,4-Dichlorobenzene	11.672	146	450662	13.802	ppbv	98
77) 1,2-Dichlorobenzene	11.947	146	427372	13.529	ppbv	99
78) Hexachloro-1,3-Butadiene	13.883	225	404441	12.679	ppbv	100
79) Naphthalene	13.514	128	944085	12.632	ppbv	98
80) Naphthalene,2-methyl-	14.459	142	540339	12.686	ppbv	99
81) 1,2,4-Trichlorobenzene	13.442	180	429982	13.398	ppbv	98

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

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

[illegible]



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 2.787 min Scan# 834

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

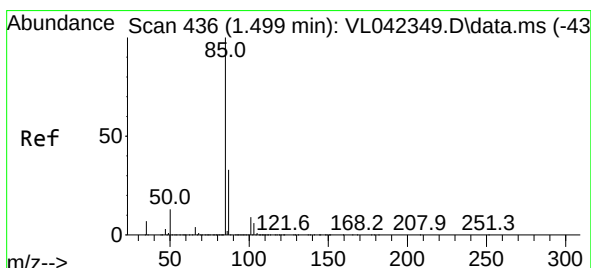
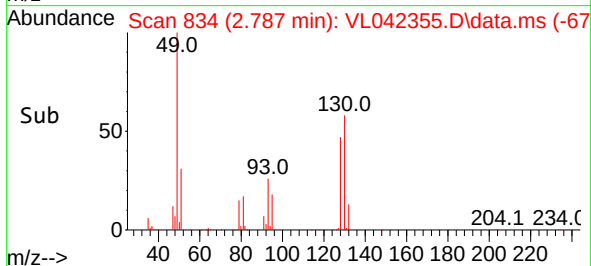
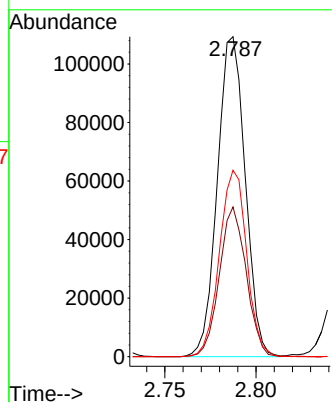
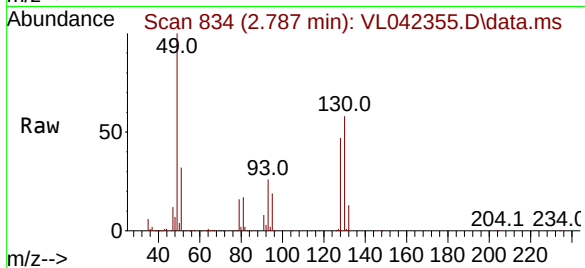
Tgt Ion: 49 Resp: 116071

Ion Ratio Lower Upper

49 100

128 45.1 22.8 68.4

130 57.1 29.3 88.0



#2

Dichlorodifluoromethane

Concen: 14.277 ppbv

RT: 1.499 min Scan# 436

Delta R.T. 0.000 min

Lab File: VL042355.D

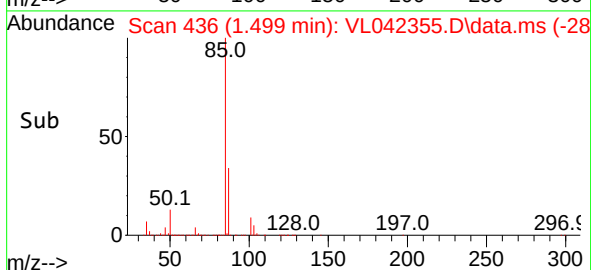
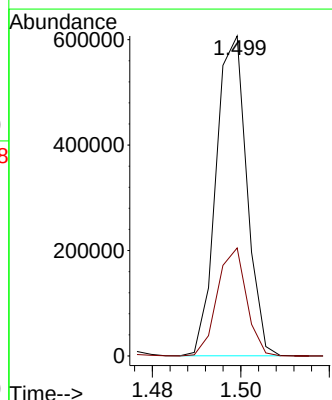
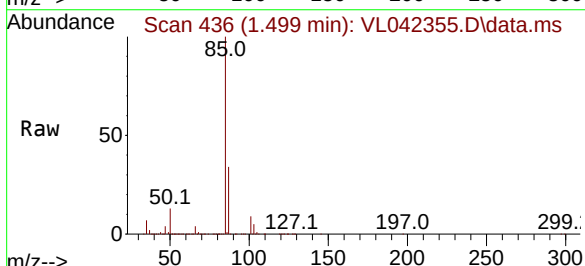
Acq: 17 Apr 2025 12:54

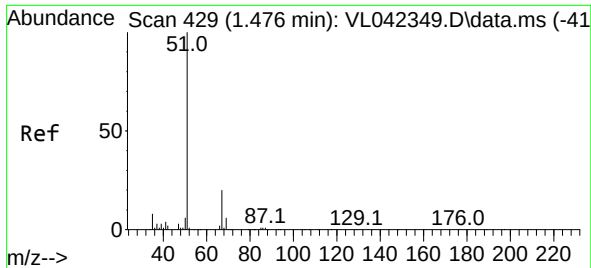
Tgt Ion: 85 Resp: 292784

Ion Ratio Lower Upper

85 100

87 33.8 26.6 39.8

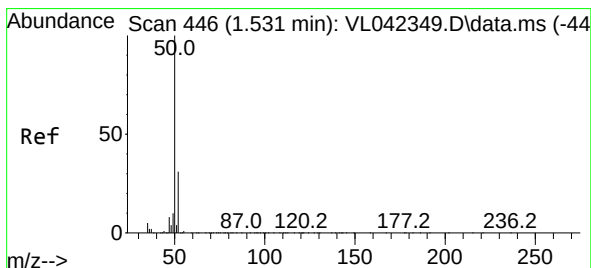
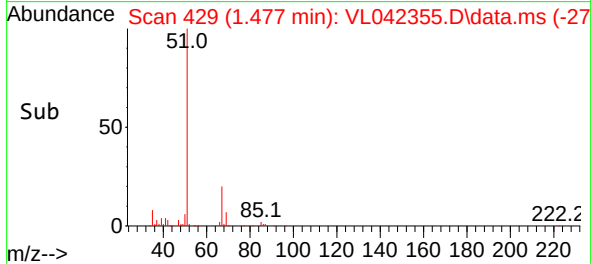
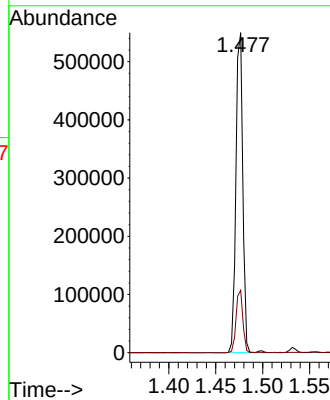
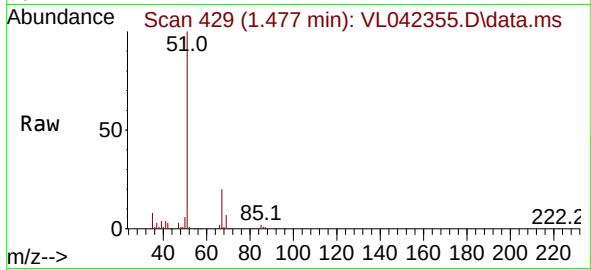




#3
Chlorodifluoromethane
Concen: 14.341 ppbv
RT: 1.477 min Scan# 429
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

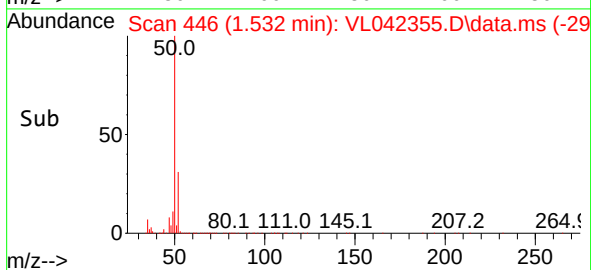
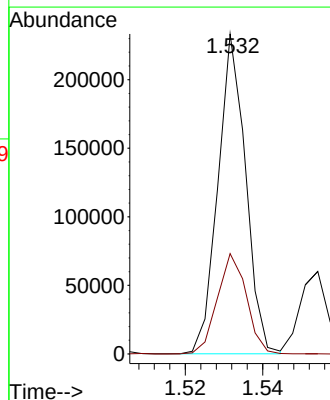
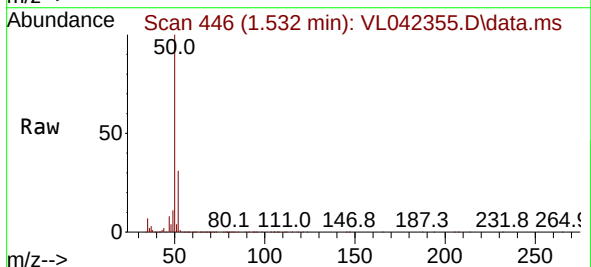
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

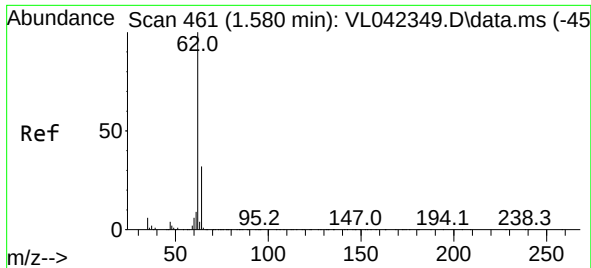
Tgt Ion: 51 Resp: 280042
Ion Ratio Lower Upper
51 100
67 19.5 16.2 24.4



#4
Chloromethane
Concen: 14.266 ppbv
RT: 1.532 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 50 Resp: 115775
Ion Ratio Lower Upper
50 100
52 31.3 24.7 37.1

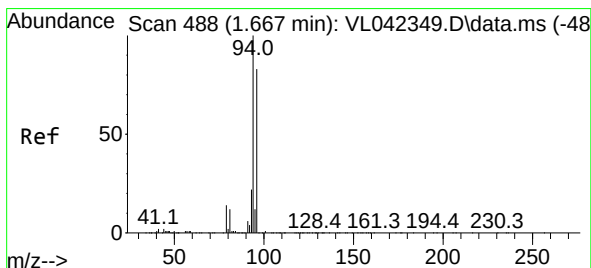
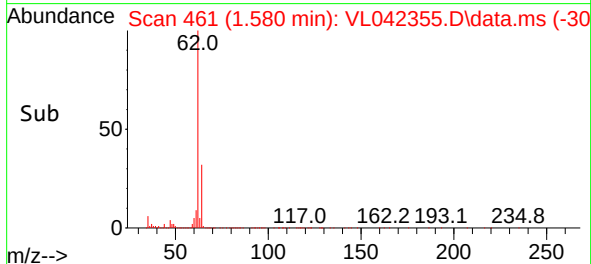
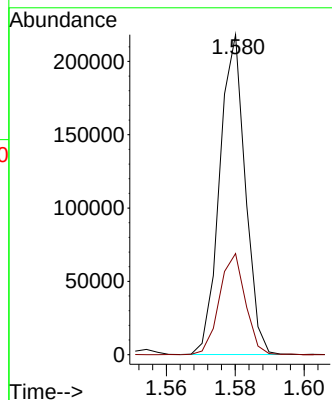
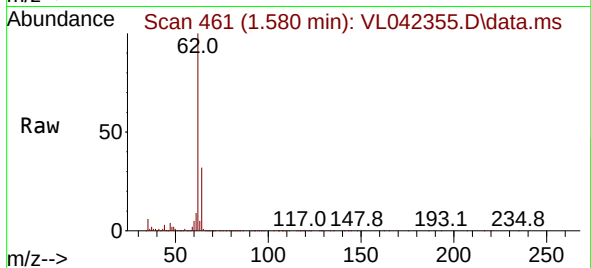




#5
 Vinyl Chloride
 Concen: 12.752 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

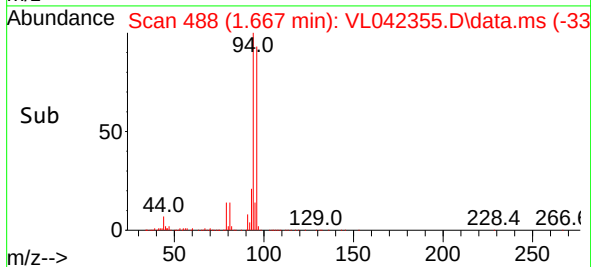
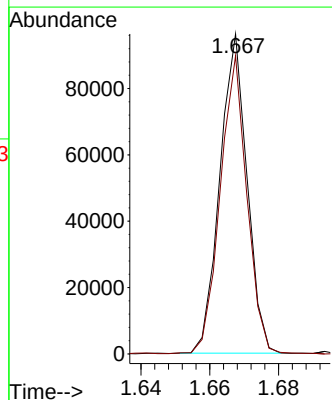
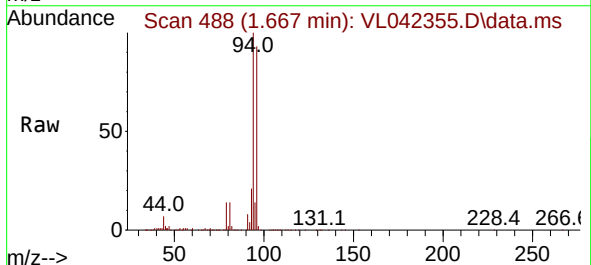
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC015

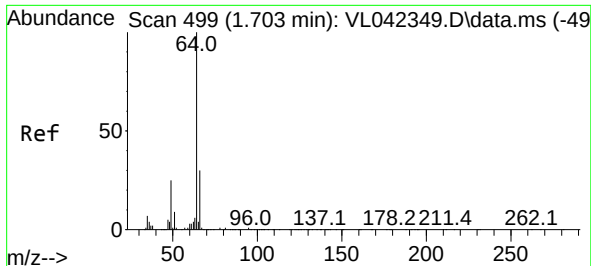
Tgt Ion: 62 Resp: 112650
 Ion Ratio Lower Upper
 62 100
 64 31.6 25.4 38.0



#6
 Bromomethane
 Concen: 13.800 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

Tgt Ion: 94 Resp: 52805
 Ion Ratio Lower Upper
 94 100
 96 93.1 66.2 99.2

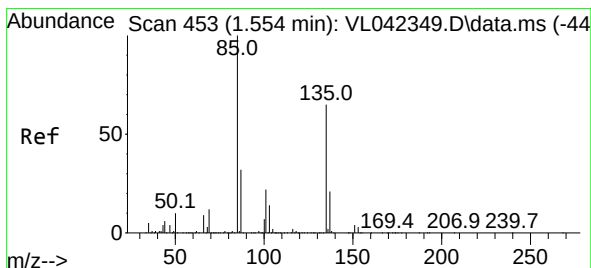
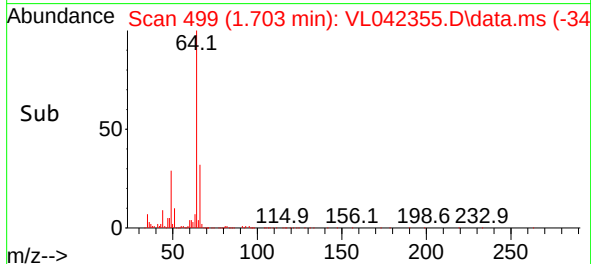
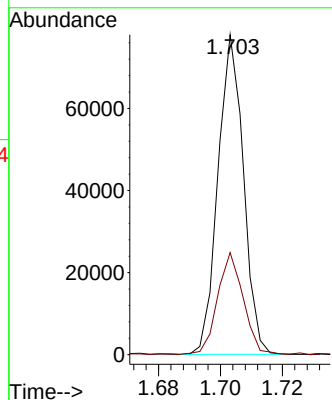
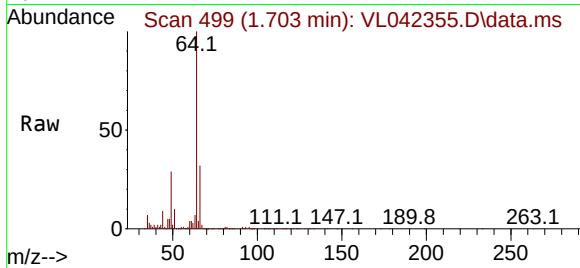




#7
Chloroethane
Concen: 13.881 ppbv
RT: 1.703 min Scan# 499
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

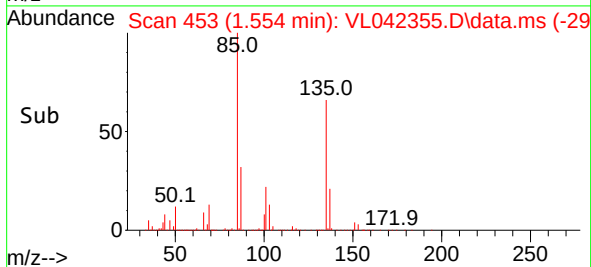
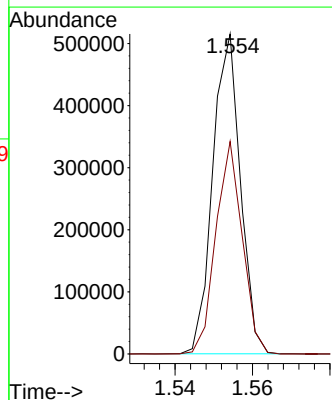
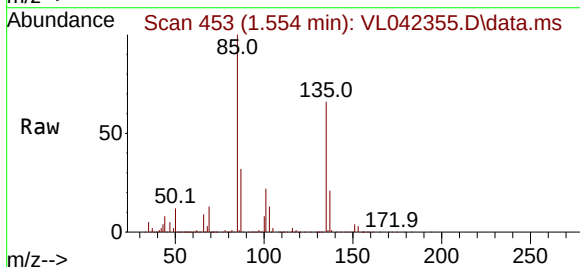
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

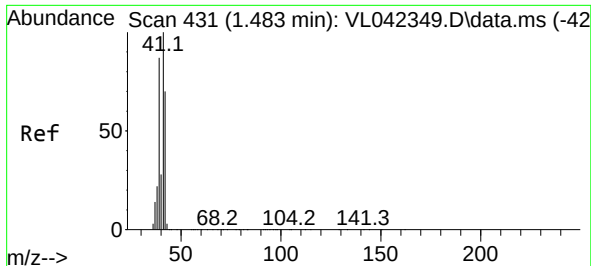
Tgt Ion: 64 Resp: 44347
Ion Ratio Lower Upper
64 100
66 31.9 24.6 37.0



#8
Dichlorotetrafluoroethane
Concen: 14.484 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 85 Resp: 255029
Ion Ratio Lower Upper
85 100
135 63.6 52.2 78.2





#9

Propene

Concen: 13.842 ppbv

RT: 1.483 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Instrument :

MSVOA_L

ClientSampleId :

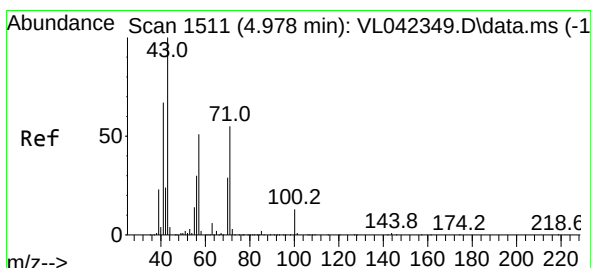
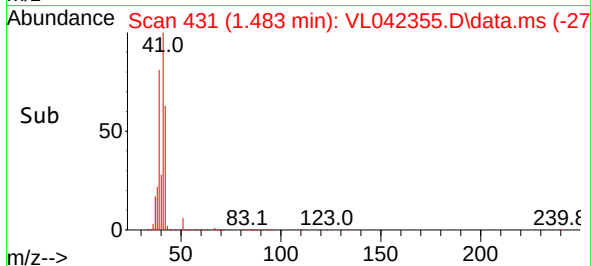
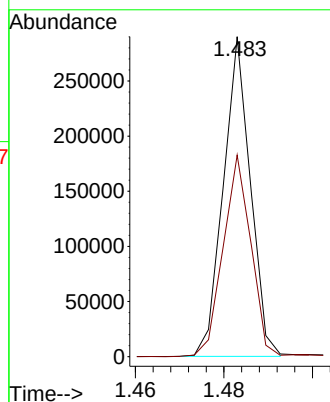
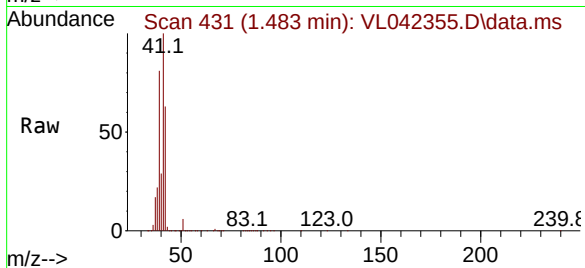
VSTDICC015

Tgt Ion: 41 Resp: 123102

Ion Ratio Lower Upper

41 100

42 66.0 56.2 84.4



#10

Heptane

Concen: 14.047 ppbv

RT: 4.979 min Scan# 1511

Delta R.T. 0.000 min

Lab File: VL042355.D

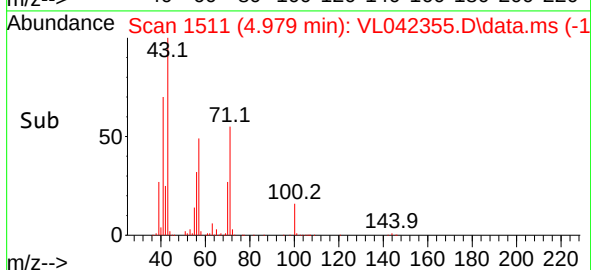
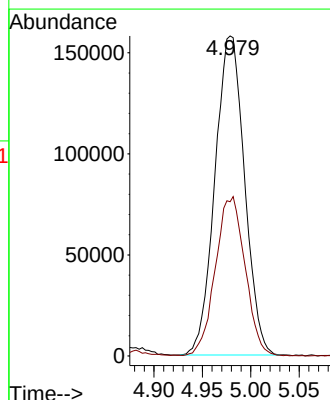
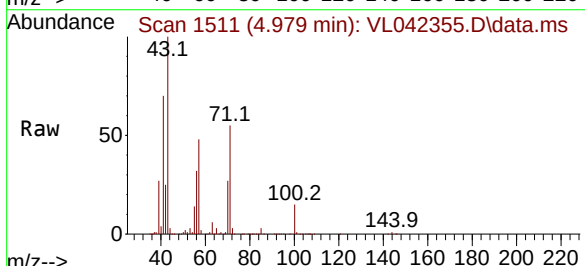
Acq: 17 Apr 2025 12:54

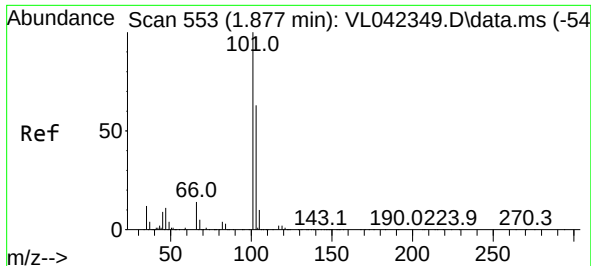
Tgt Ion: 43 Resp: 336134

Ion Ratio Lower Upper

43 100

57 50.0 39.9 59.9

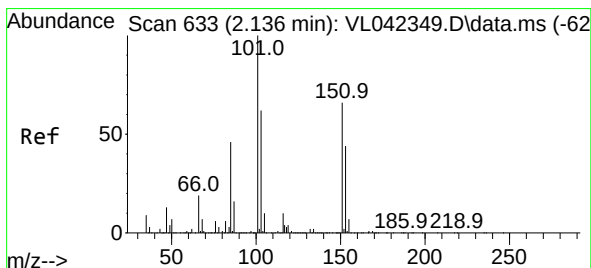
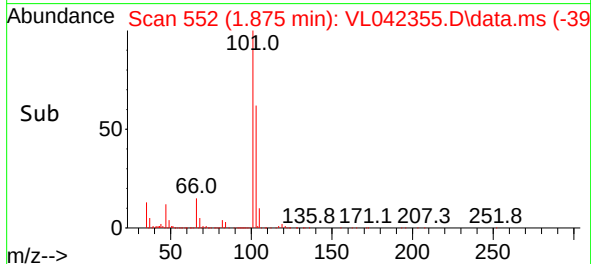
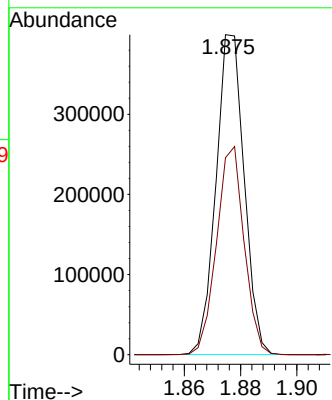
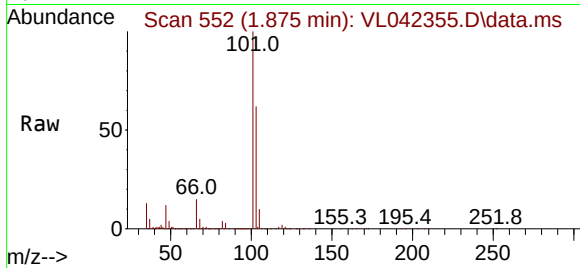




#11
 Trichlorofluoromethane
 Concen: 14.258 ppbv
 RT: 1.875 min Scan# 511
 Delta R.T. -0.003 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

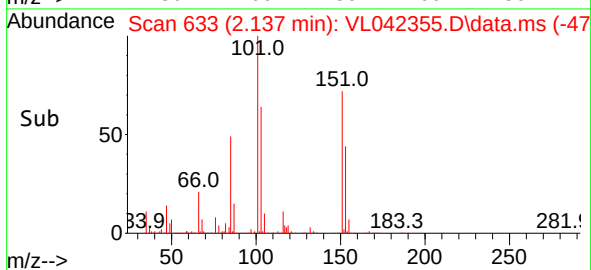
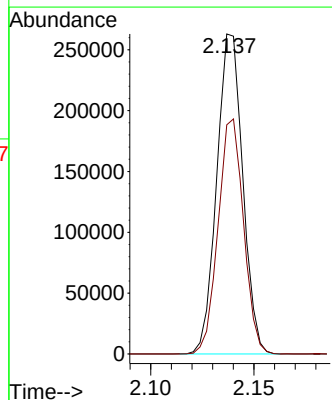
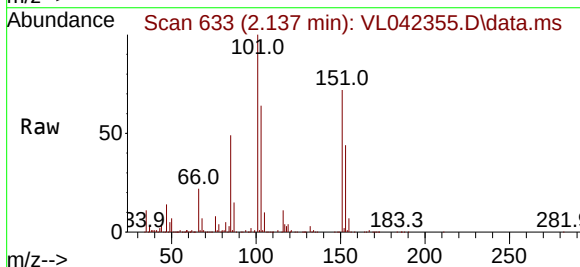
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

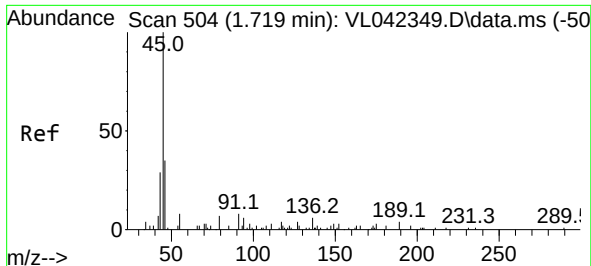
Tgt Ion:101 Resp: 278059
 Ion Ratio Lower Upper
 101 100
 103 61.6 50.1 75.1



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 14.447 ppbv
 RT: 2.137 min Scan# 633
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

Tgt Ion:101 Resp: 230366
 Ion Ratio Lower Upper
 101 100
 151 71.8 57.0 85.6

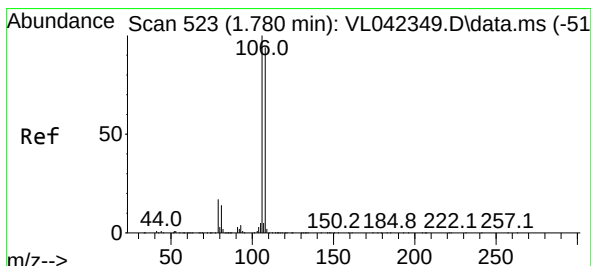
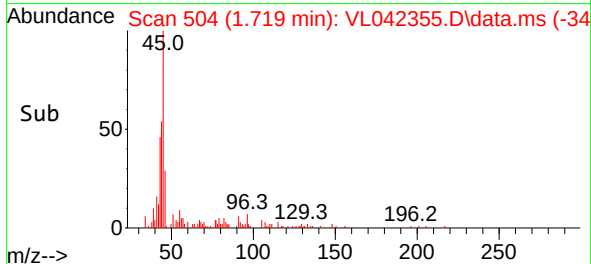
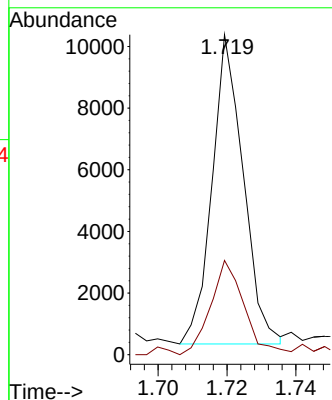
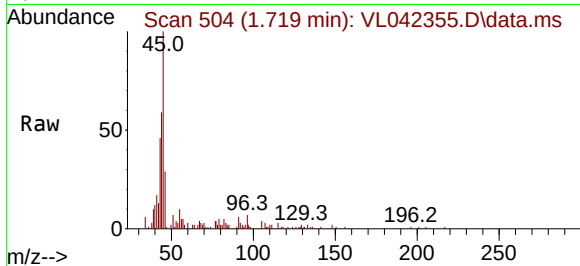




#13
 Ethanol
 Concen: 8.702 ppbv
 RT: 1.719 min Scan# 504
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

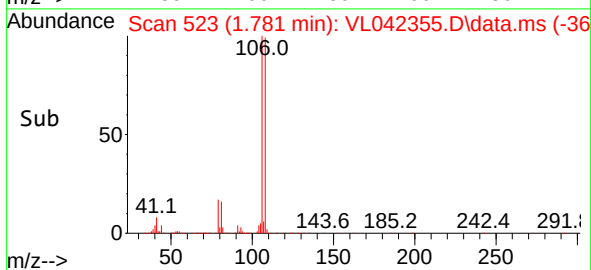
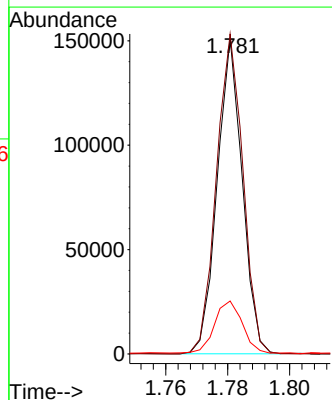
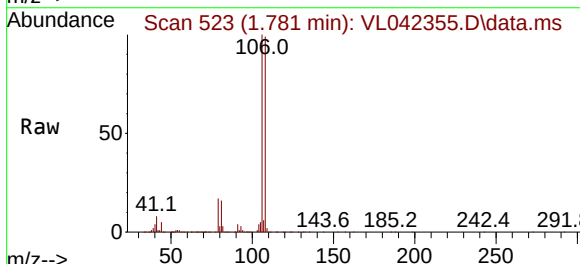
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

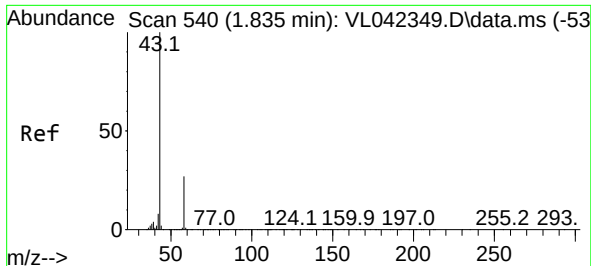
Tgt Ion: 45 Resp: 6324
 Ion Ratio Lower Upper
 45 100
 46 37.6 21.9 87.7



#14
 Bromoethene
 Concen: 14.117 ppbv
 RT: 1.781 min Scan# 523
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

Tgt Ion: 108 Resp: 84851
 Ion Ratio Lower Upper
 108 100
 106 107.5 85.9 128.9
 79 19.3 13.9 20.9

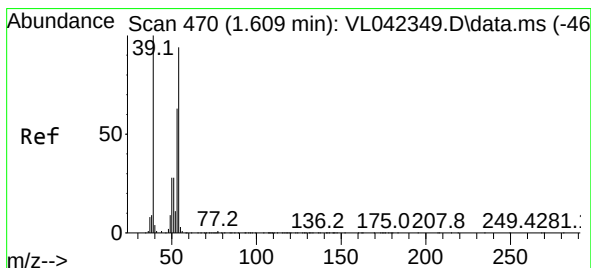
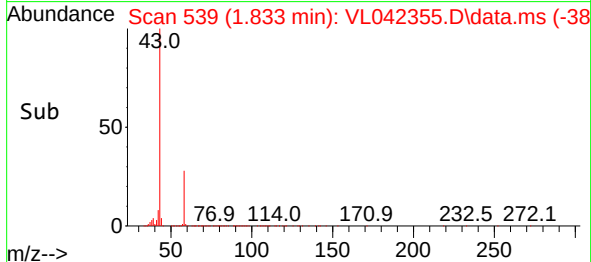
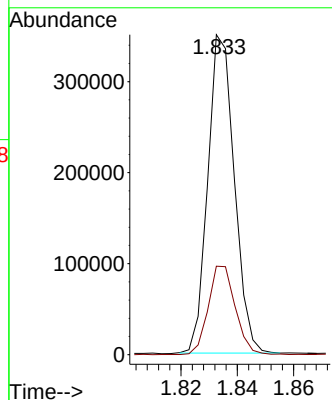
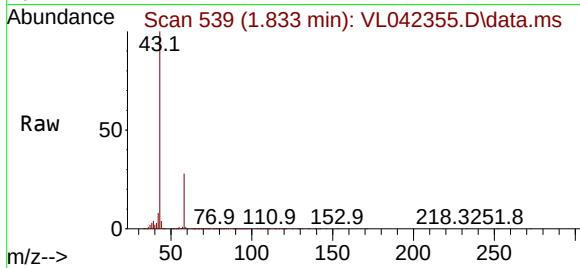




#15
Acetone
Concen: 12.056 ppbv
RT: 1.833 min Scan# 51
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

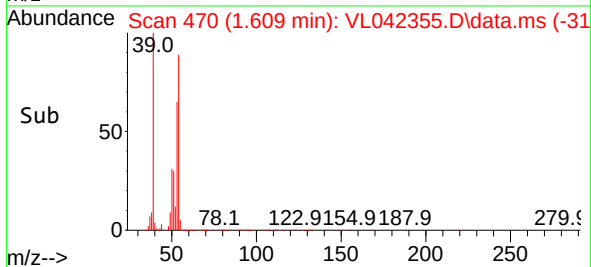
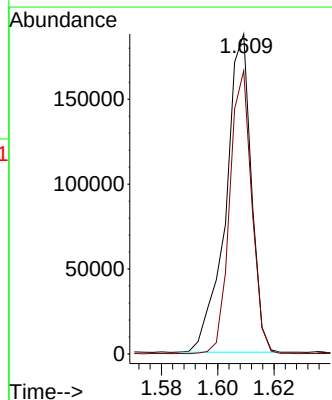
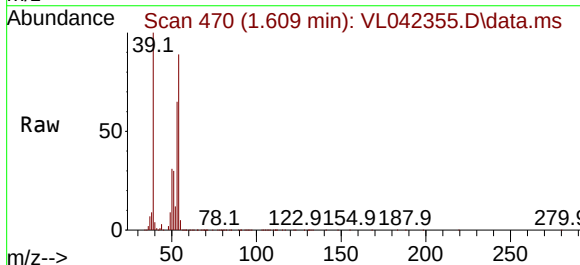
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

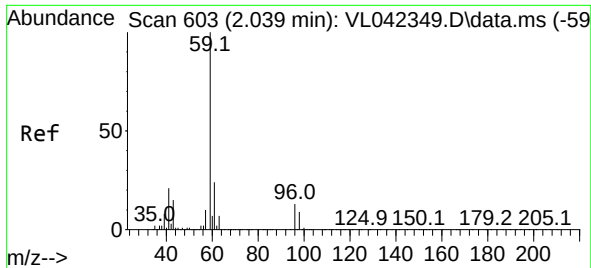
Tgt Ion: 43 Resp: 229086
Ion Ratio Lower Upper
43 100
58 28.4 22.4 33.6



#16
1,3-Butadiene
Concen: 13.224 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 39 Resp: 117997
Ion Ratio Lower Upper
39 100
54 77.2 64.9 97.3





#17

tert-Butyl alcohol

Concen: 13.615 ppbv

RT: 2.040 min Scan# 603

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Instrument :

MSVOA_1

ClientSampleId :

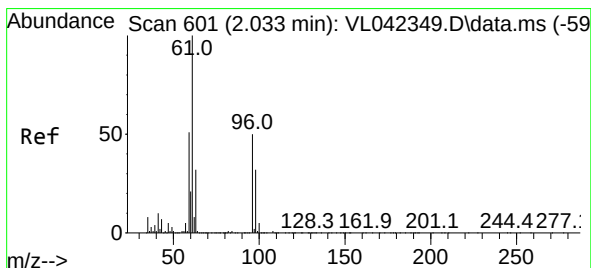
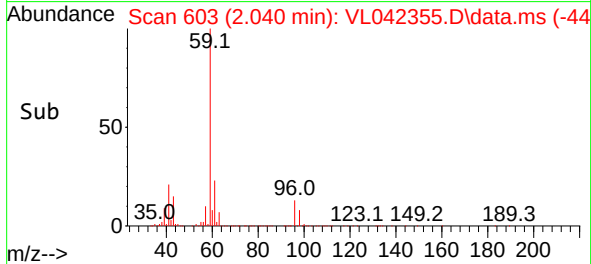
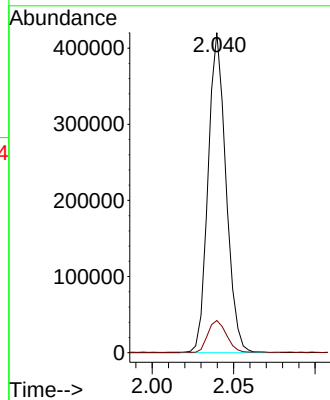
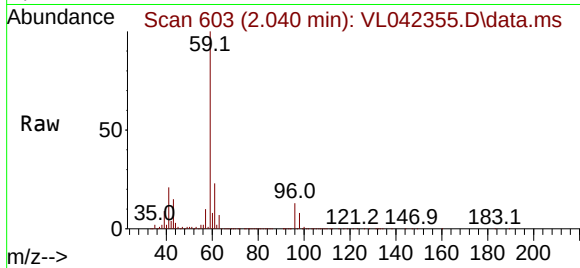
VSTDIC015

Tgt Ion: 59 Resp: 320605

Ion Ratio Lower Upper

59 100

57 10.6 8.7 13.1



#18

1,1-Dichloroethene

Concen: 14.045 ppbv

RT: 2.033 min Scan# 601

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

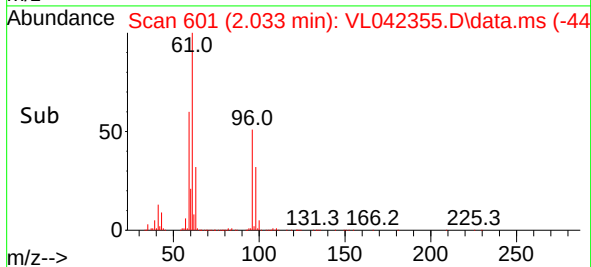
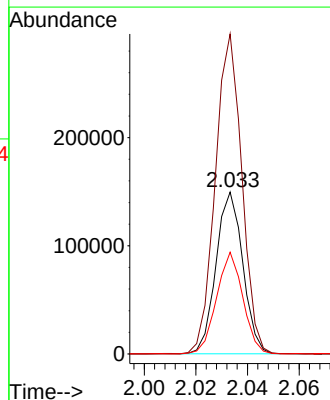
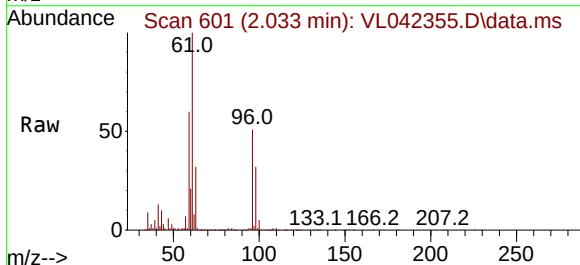
Tgt Ion: 96 Resp: 107666

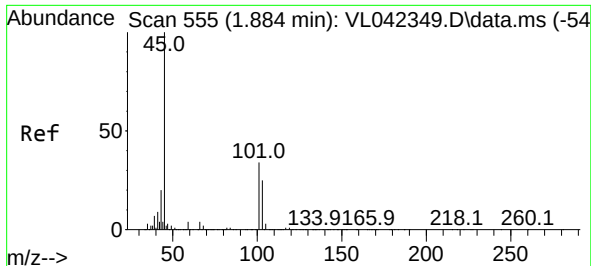
Ion Ratio Lower Upper

96 100

61 197.8 160.2 240.2

98 62.9 51.0 76.4

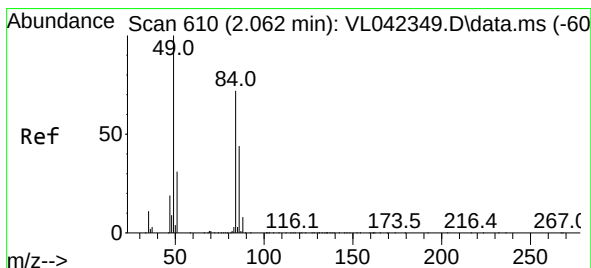
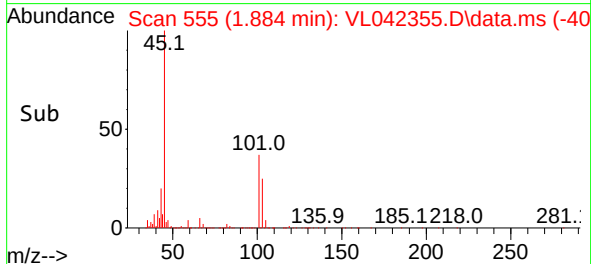
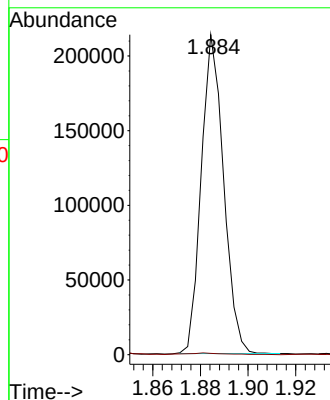
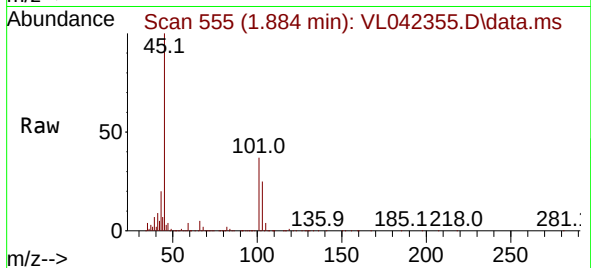




#19
Isopropyl Alcohol
Concen: 13.169 ppbv
RT: 1.884 min Scan# 511
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

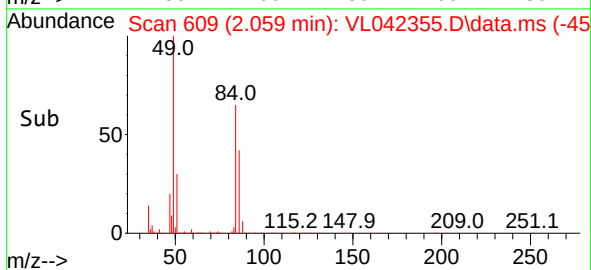
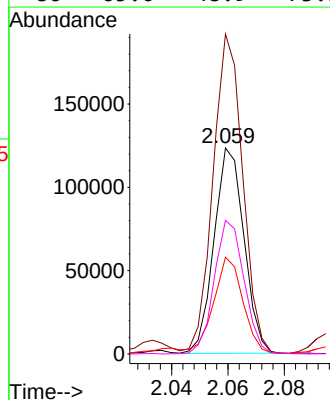
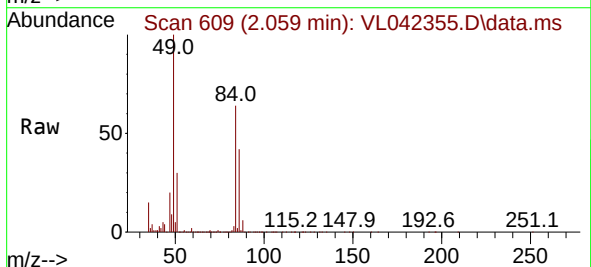
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

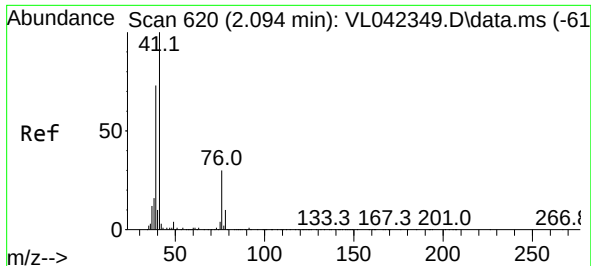
Tgt Ion: 45 Resp: 139004
Ion Ratio Lower Upper
45 100
58 46.9 34.5 51.7



#20
Methylene Chloride
Concen: 12.241 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 84 Resp: 91093
Ion Ratio Lower Upper
84 100
49 155.7 111.6 167.4
51 46.8 35.1 52.7
86 65.0 48.9 73.3

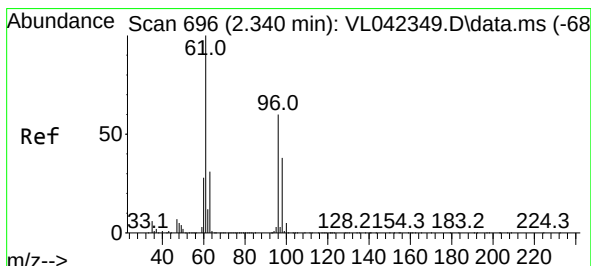
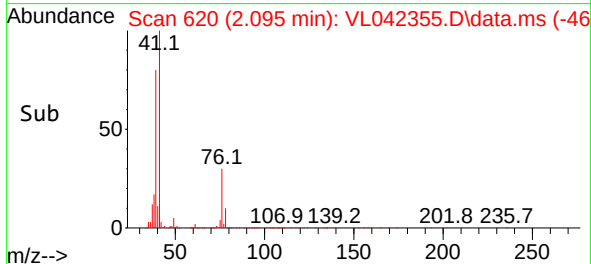
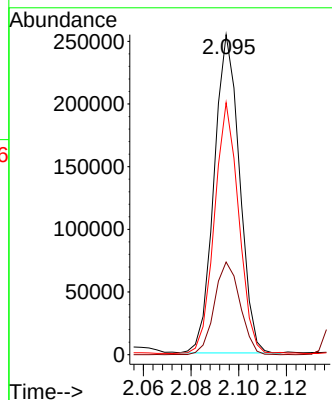
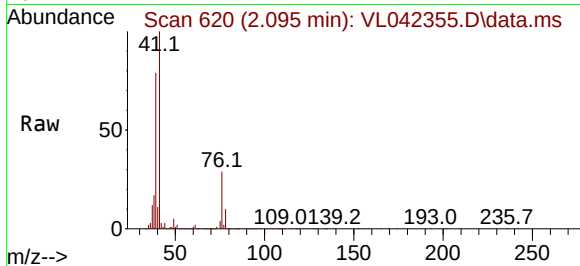




#21
 Allyl Chloride
 Concen: 14.329 ppbv
 RT: 2.095 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

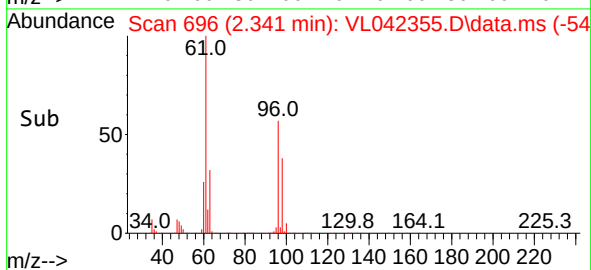
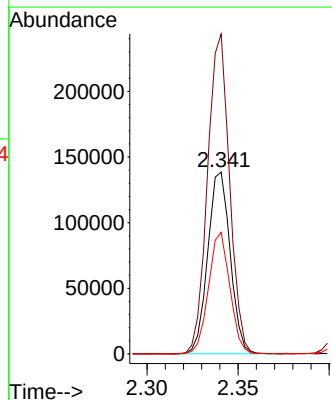
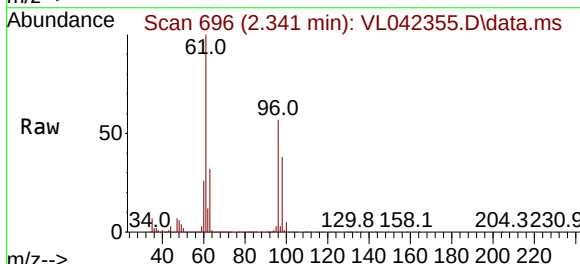
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

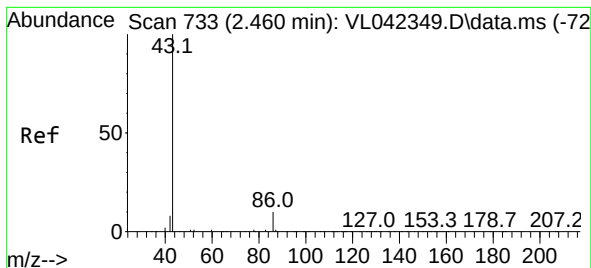
Tgt Ion: 41 Resp: 187995
 Ion Ratio Lower Upper
 41 100
 76 29.3 24.8 37.2
 39 75.2 60.6 90.8



#22
 trans-1,2-Dichloroethene
 Concen: 13.970 ppbv
 RT: 2.341 min Scan# 696
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

Tgt Ion: 96 Resp: 118492
 Ion Ratio Lower Upper
 96 100
 61 176.1 133.7 200.5
 98 66.8 50.3 75.5





#23

Vinyl Acetate

Concen: 13.799 ppbv

RT: 2.460 min Scan# 717

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC015

Tgt Ion: 43 Resp: 106135

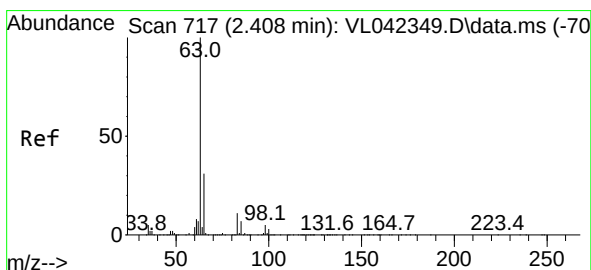
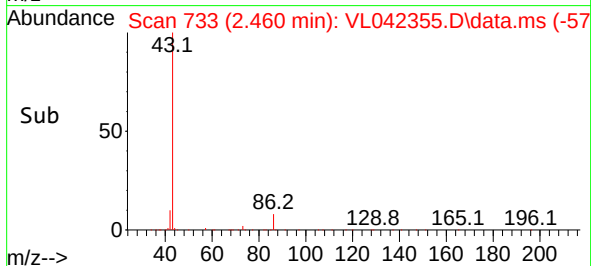
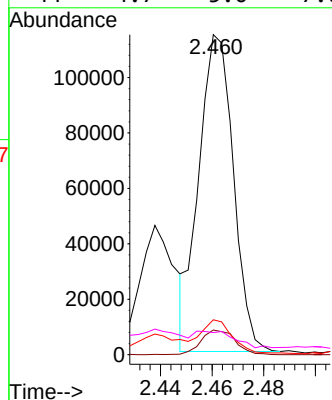
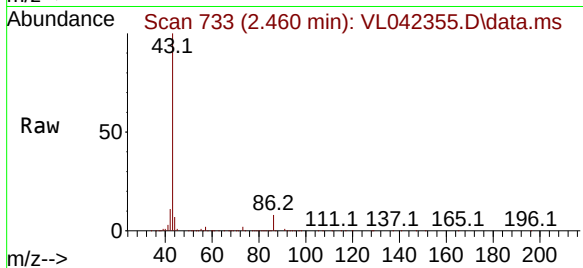
Ion Ratio Lower Upper

43 100

86 7.8 6.5 9.7

42 10.4 7.8 11.8

44 4.7 5.0 7.6#



#24

1,1-Dichloroethane

Concen: 14.615 ppbv

RT: 2.409 min Scan# 717

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

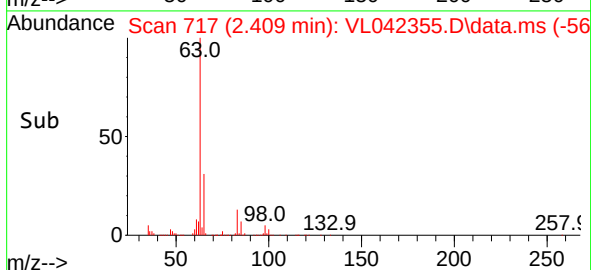
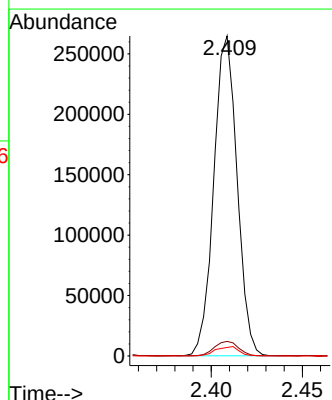
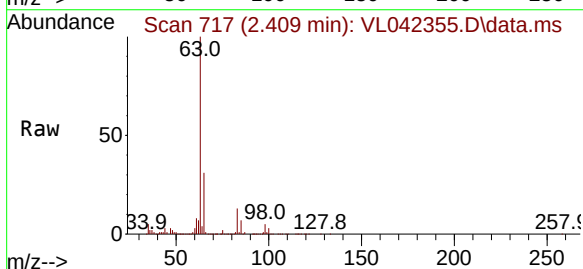
Tgt Ion: 63 Resp: 235466

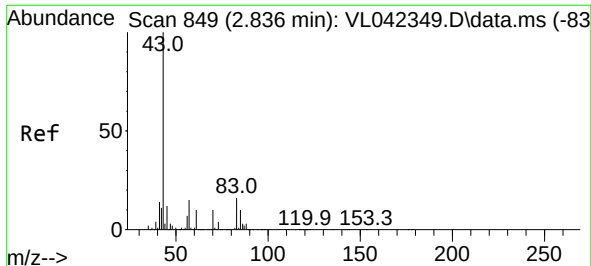
Ion Ratio Lower Upper

63 100

98 4.5 2.3 6.8

100 2.6 1.6 4.8



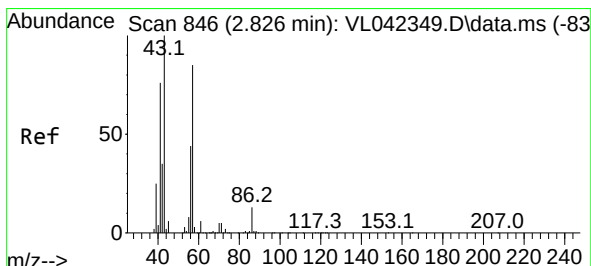
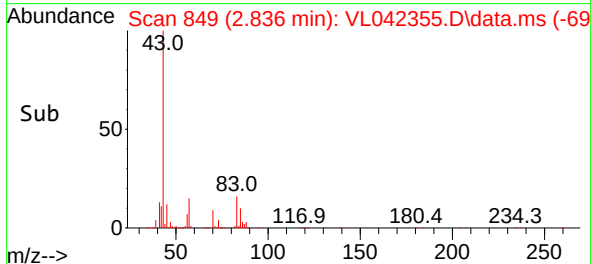
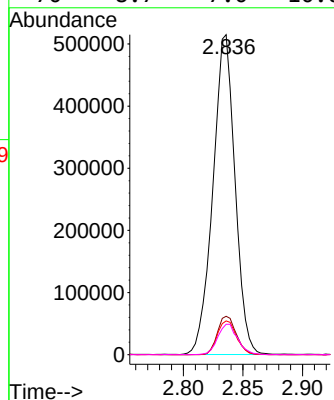
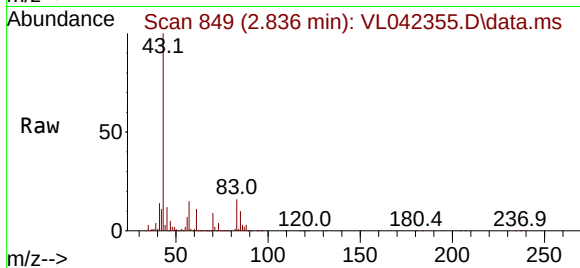


#25
Ethyl Acetate
Concen: 14.166 ppbv
RT: 2.836 min Scan# 849
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 43 Resp: 663644

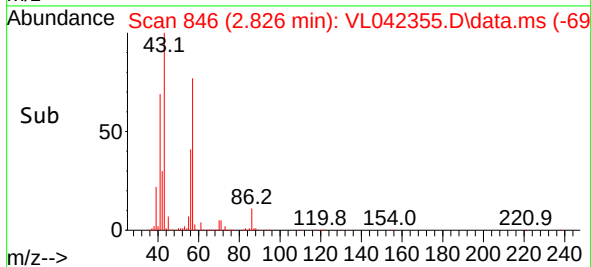
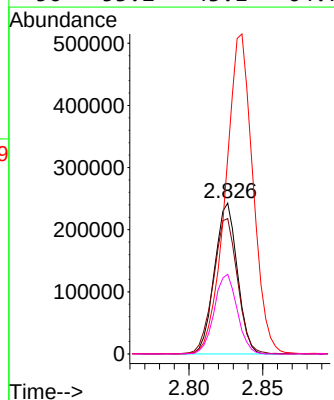
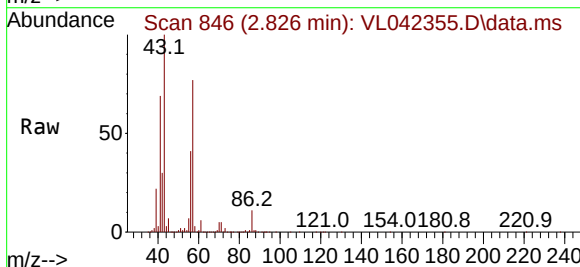
Ion	Ratio	Lower	Upper
43	100		
45	10.4	8.3	12.5
61	9.2	7.3	10.9
70	8.7	7.0	10.6

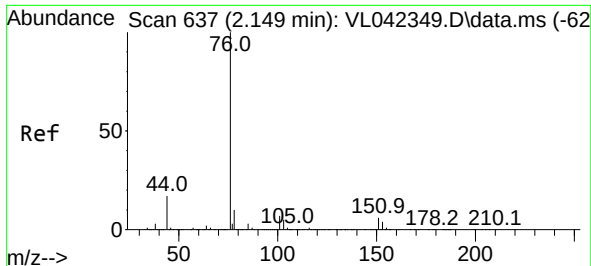


#26
Hexane
Concen: 13.765 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 57 Resp: 260975

Ion	Ratio	Lower	Upper
57	100		
41	95.3	77.9	116.9
43	254.5	208.4	312.6
56	53.2	43.1	64.7

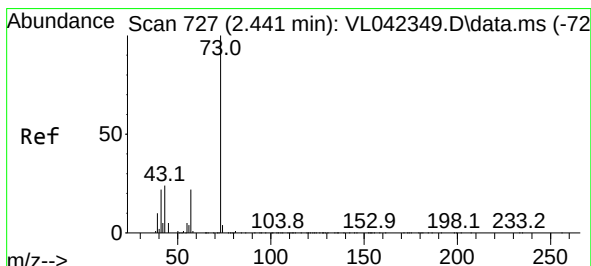
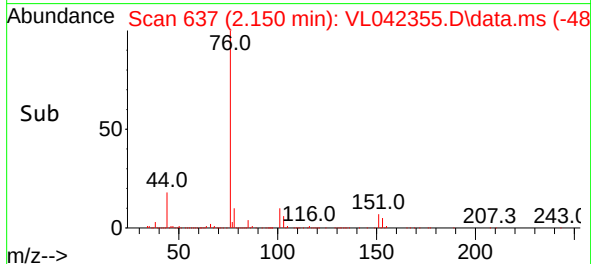
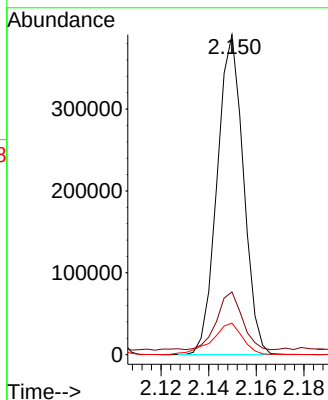
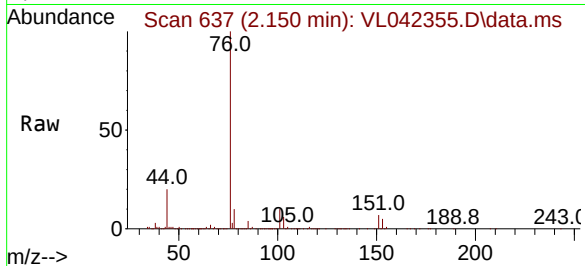




#27
Carbon Disulfide
Concen: 14.734 ppbv
RT: 2.150 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

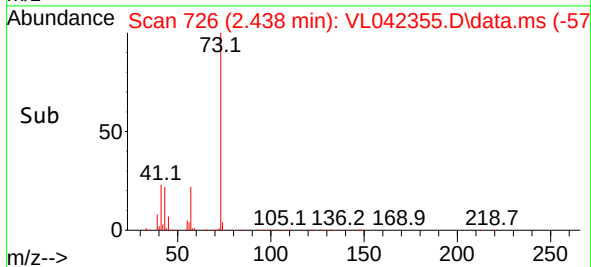
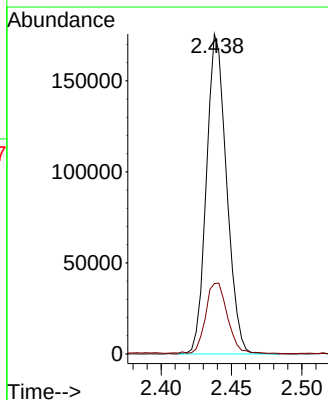
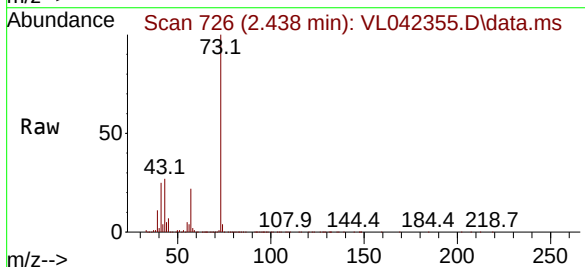
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

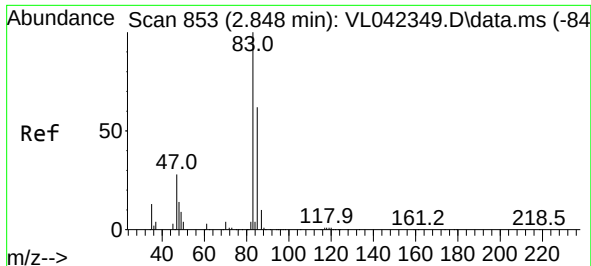
Tgt Ion: 76 Resp: 299098
Ion Ratio Lower Upper
76 100
44 17.3 15.5 23.3
78 11.4 9.3 13.9



#28
Methyl tert-Butyl Ether
Concen: 14.076 ppbv
RT: 2.438 min Scan# 726
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 73 Resp: 174855
Ion Ratio Lower Upper
73 100
57 24.3 21.3 31.9





#29

Chloroform

Concen: 14.393 ppbv

RT: 2.849 min Scan# 81

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Instrument :

MSVOA_L

ClientSampleId :

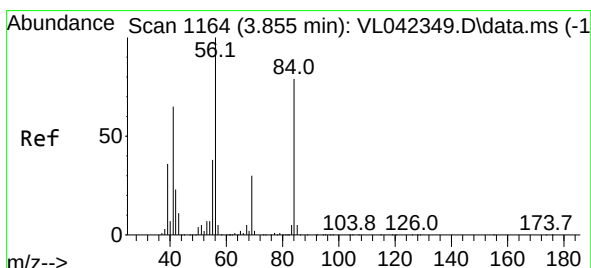
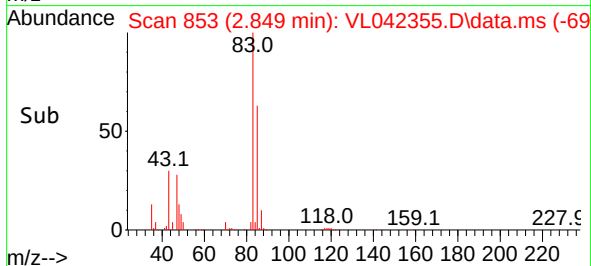
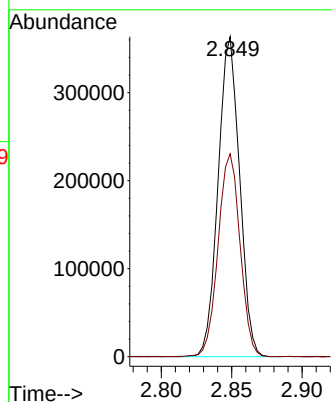
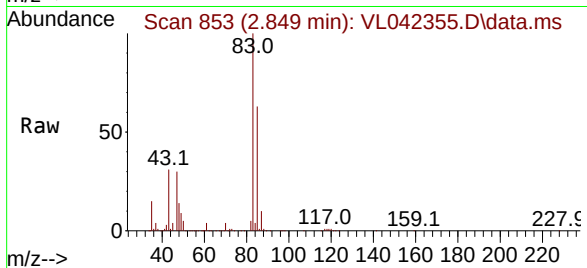
VSTDIC015

Tgt Ion: 83 Resp: 385686

Ion Ratio Lower Upper

83 100

85 63.4 50.0 75.0



#30

Cyclohexane

Concen: 14.238 ppbv

RT: 3.855 min Scan# 1164

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

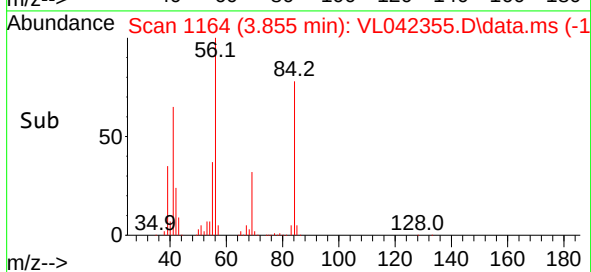
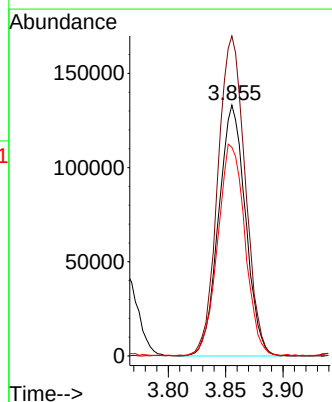
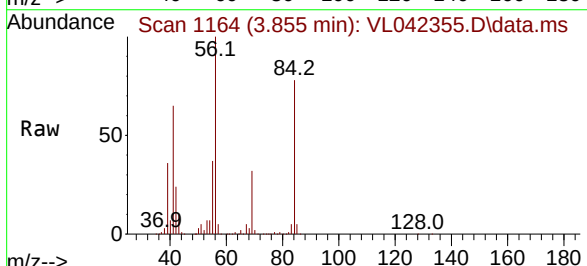
Tgt Ion: 84 Resp: 217375

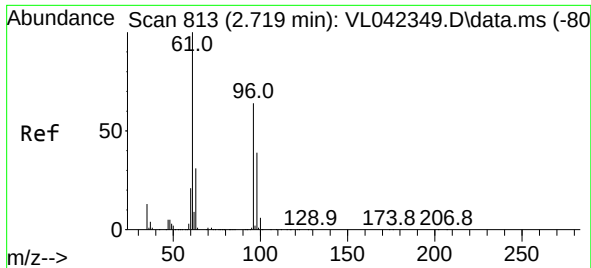
Ion Ratio Lower Upper

84 100

56 129.4 101.0 151.4

41 85.3 67.4 101.0

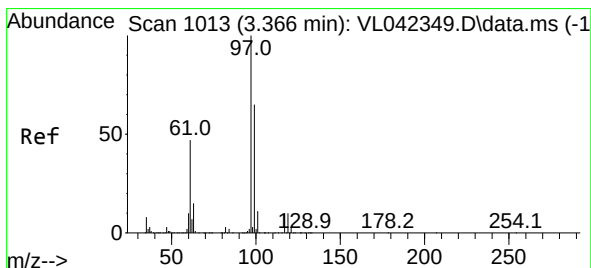
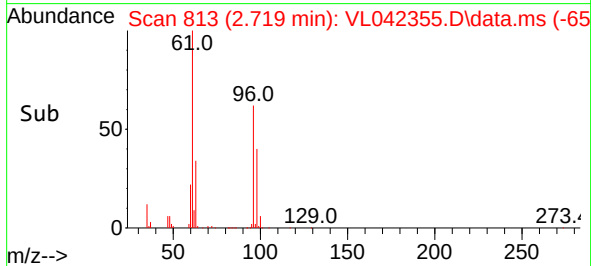
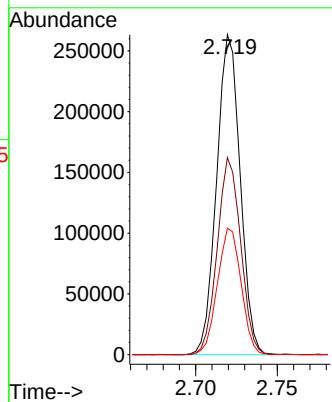
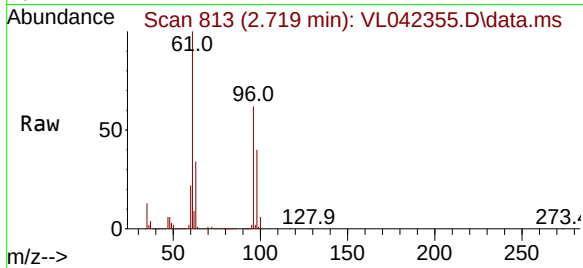




#31
 cis-1,2-Dichloroethene
 Concen: 14.700 ppbv
 RT: 2.719 min Scan# 813
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

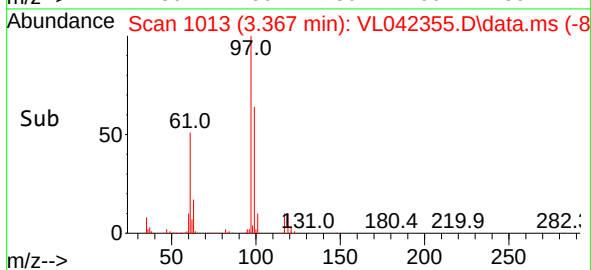
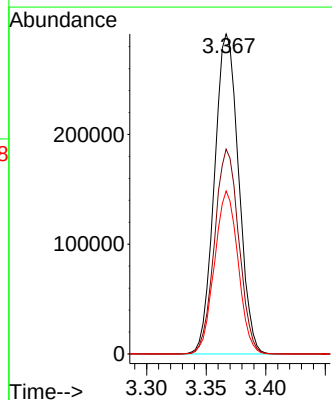
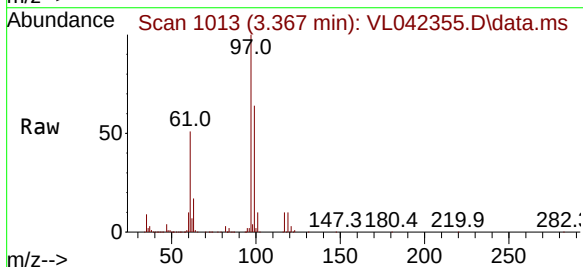
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

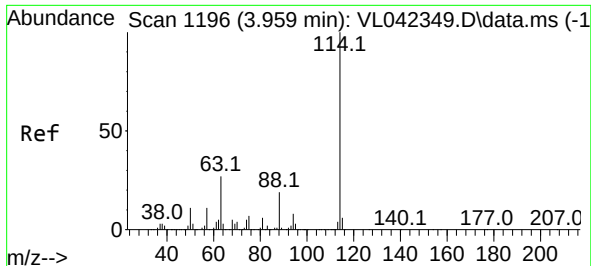
Tgt Ion: 61 Resp: 264972
 Ion Ratio Lower Upper
 61 100
 96 61.6 50.8 76.2
 98 39.5 30.9 46.3



#32
 1,1,1-Trichloroethane
 Concen: 14.357 ppbv
 RT: 3.367 min Scan# 1013
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

Tgt Ion: 97 Resp: 412537
 Ion Ratio Lower Upper
 97 100
 99 64.1 51.0 76.4
 61 49.8 38.8 58.2

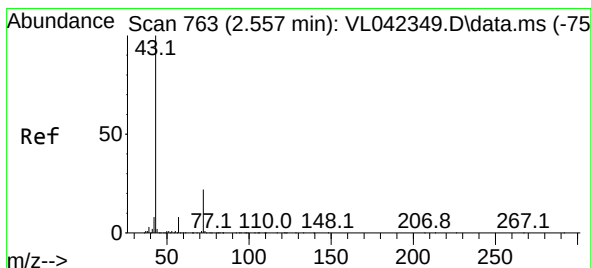
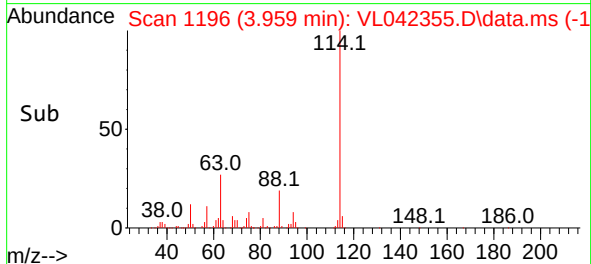
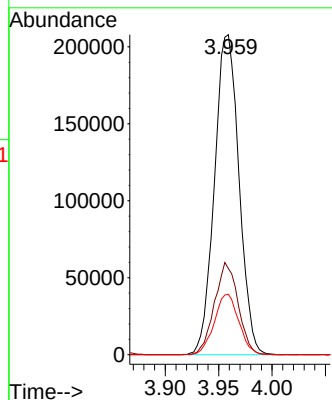
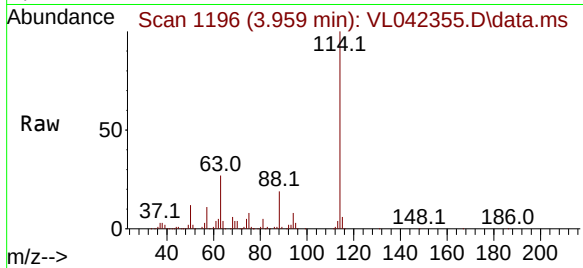




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.959 min Scan# 1196
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

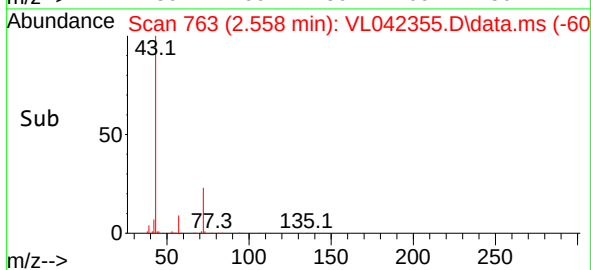
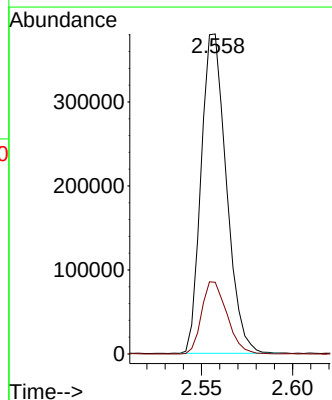
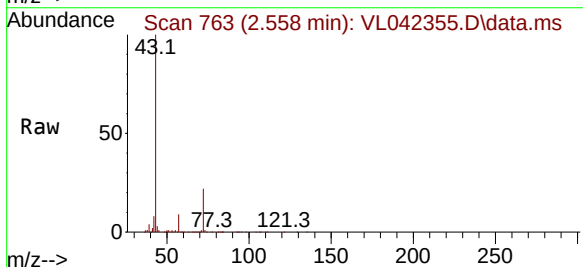
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC015

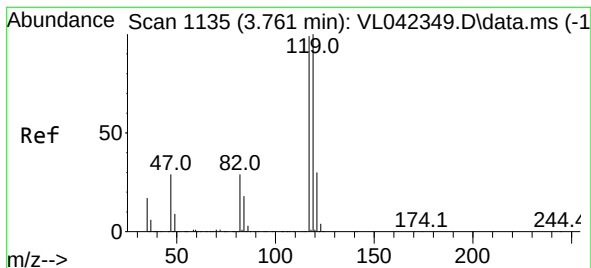
Tgt Ion:114 Resp: 332080
 Ion Ratio Lower Upper
 114 100
 63 27.7 21.8 32.6
 88 18.9 15.5 23.3



#34
 2-Butanone
 Concen: 13.986 ppbv
 RT: 2.558 min Scan# 763
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

Tgt Ion: 43 Resp: 367315
 Ion Ratio Lower Upper
 43 100
 72 22.7 18.2 27.2





#35

Carbon Tetrachloride

Concen: 13.639 ppbv

RT: 3.762 min Scan# 1135

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

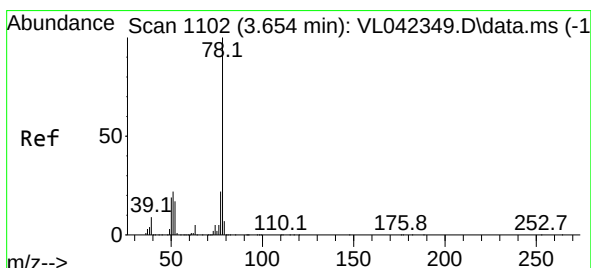
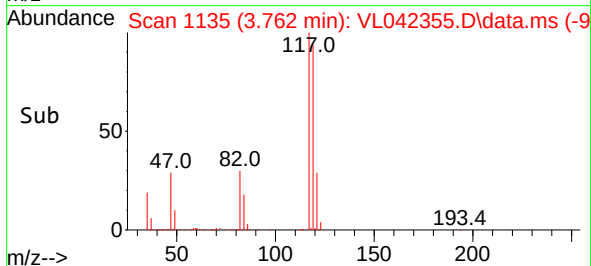
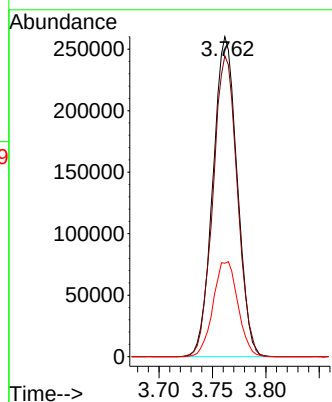
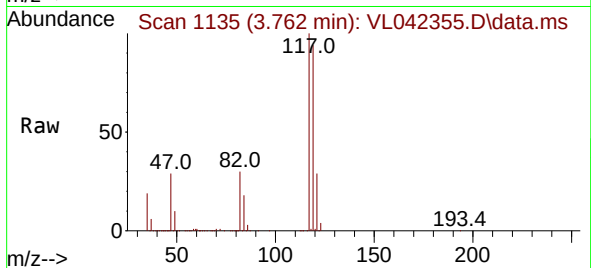
Tgt Ion:117 Resp: 409916

Ion Ratio Lower Upper

117 100

119 94.0 80.5 120.7

121 29.2 24.2 36.2



#36

Benzene

Concen: 14.578 ppbv

RT: 3.655 min Scan# 1102

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

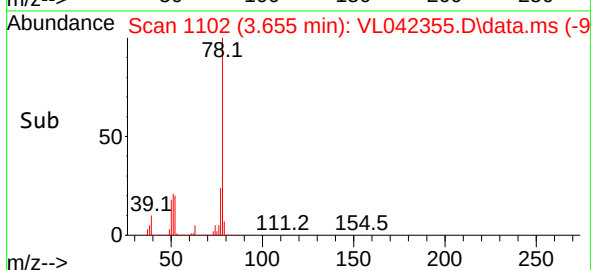
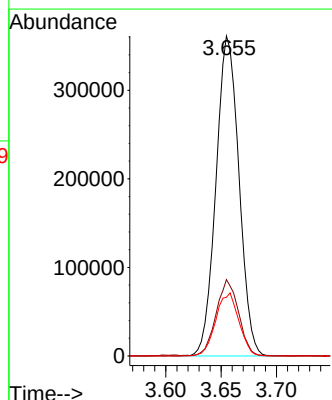
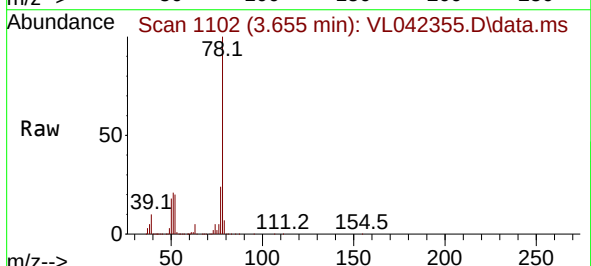
Tgt Ion: 78 Resp: 522156

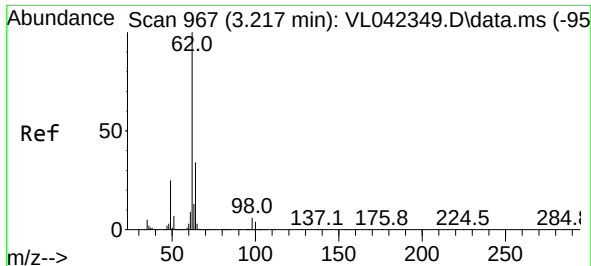
Ion Ratio Lower Upper

78 100

77 23.8 17.4 26.0

50 18.3 15.5 23.3





#37

1,2-Dichloroethane

Concen: 14.863 ppbv

RT: 3.218 min Scan# 9

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Instrument :

MSVOA_L

ClientSampleId :

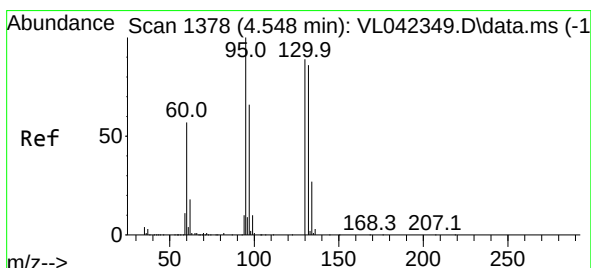
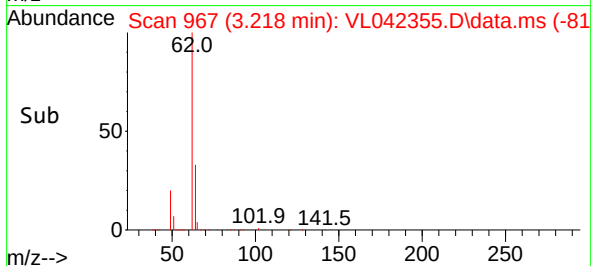
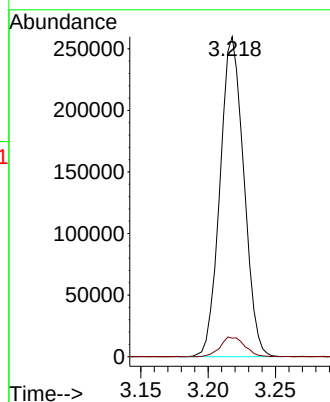
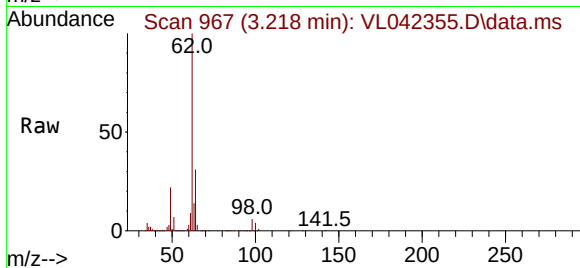
VSTDIC015

Tgt Ion: 62 Resp: 319517

Ion Ratio Lower Upper

62 100

98 6.3 5.1 7.7



#38

Trichloroethene

Concen: 13.278 ppbv

RT: 4.548 min Scan# 1378

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Tgt Ion:130 Resp: 208508

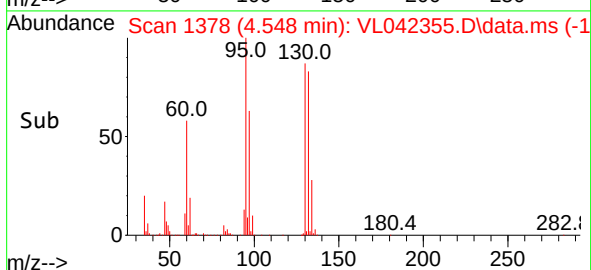
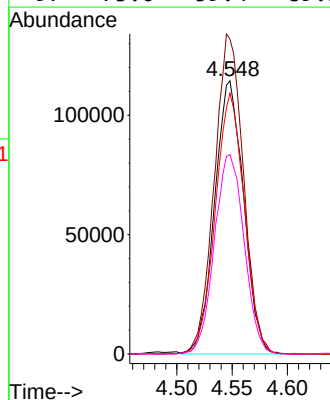
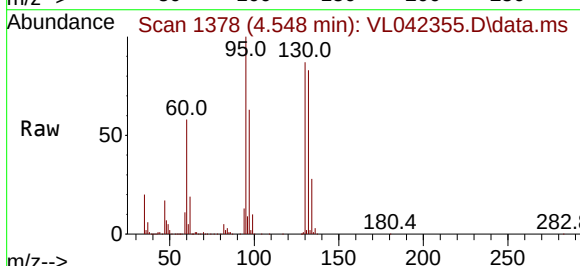
Ion Ratio Lower Upper

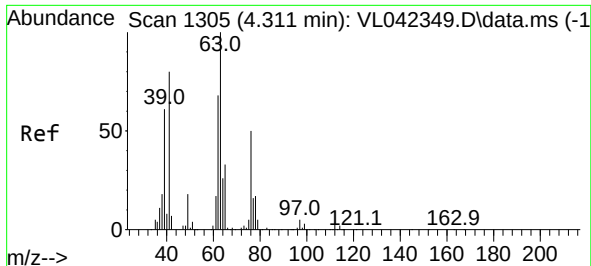
130 100

95 115.0 89.8 134.6

132 95.3 77.7 116.5

97 73.0 59.4 89.2





#39

1,2-Dichloropropane

Concen: 14.201 ppbv

RT: 4.312 min Scan# 1

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

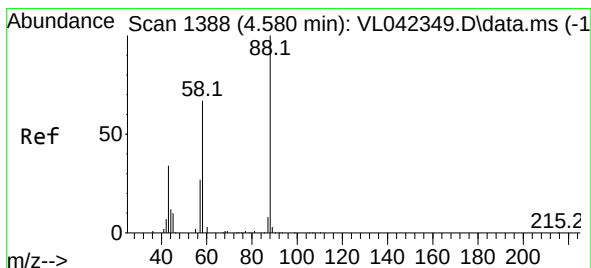
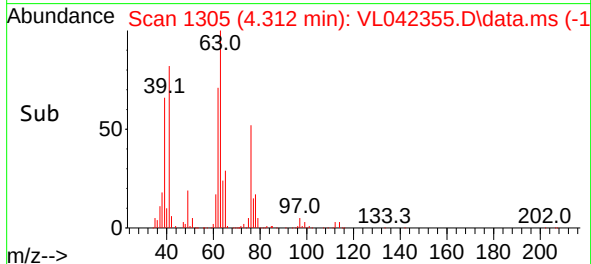
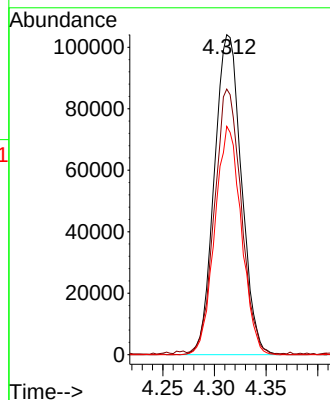
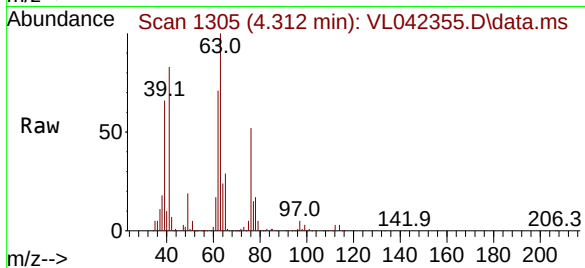
Tgt Ion: 63 Resp: 189697

Ion Ratio Lower Upper

63 100

41 82.7 64.2 96.2

62 71.4 54.3 81.5



#40

1,4-Dioxane

Concen: 12.733 ppbv

RT: 4.580 min Scan# 1388

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Tgt Ion: 88 Resp: 92114

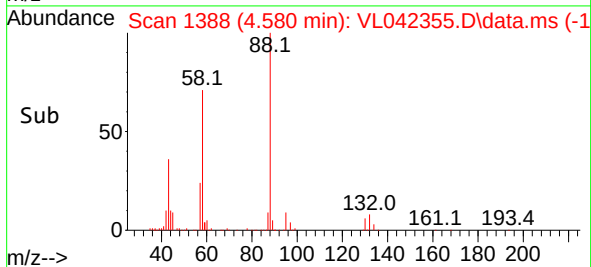
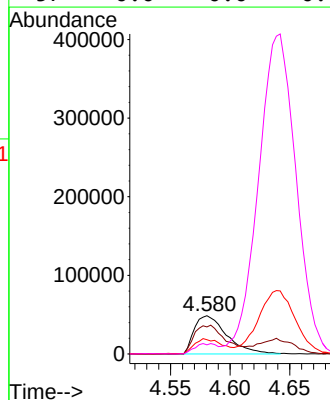
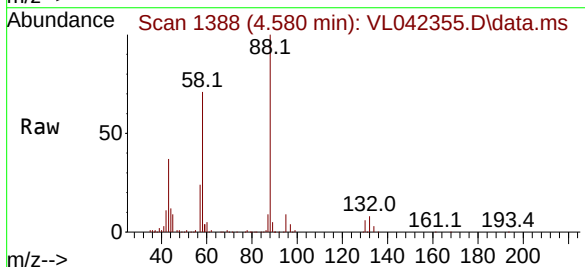
Ion Ratio Lower Upper

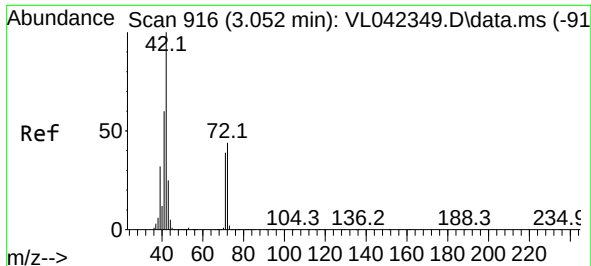
88 100

58 75.2 61.4 92.0

43 36.8 23.2 34.8

57 0.0 0.0 0.0

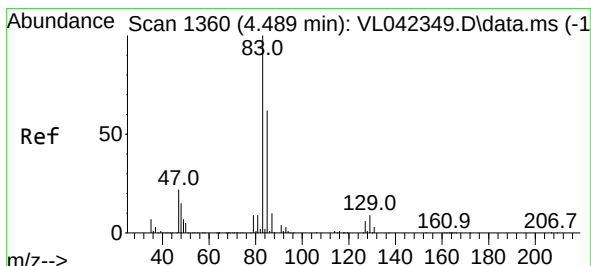
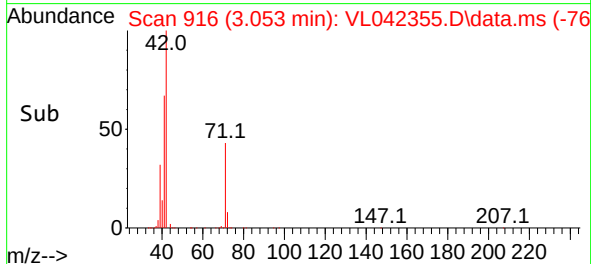
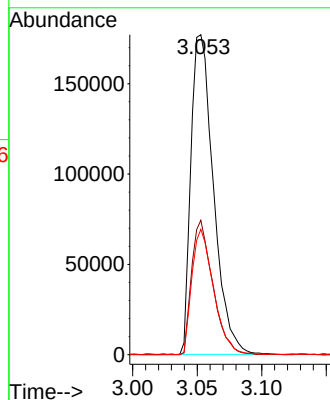
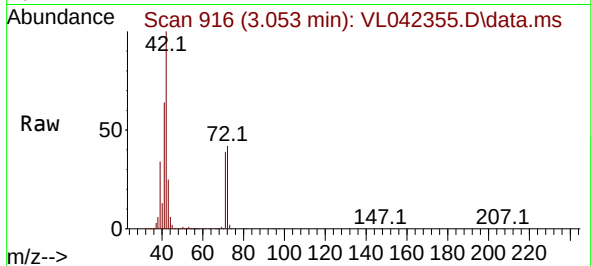




#41
Tetrahydrofuran
Concen: 14.166 ppbv
RT: 3.053 min Scan# 916
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

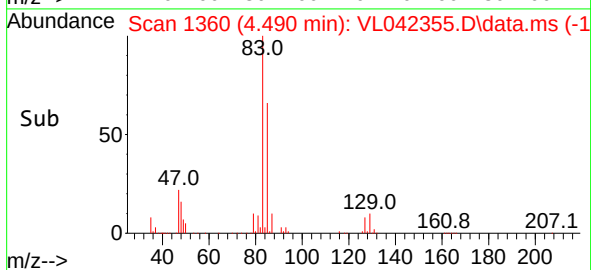
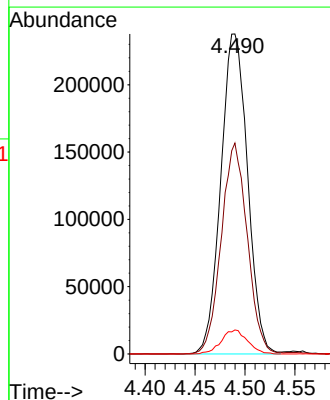
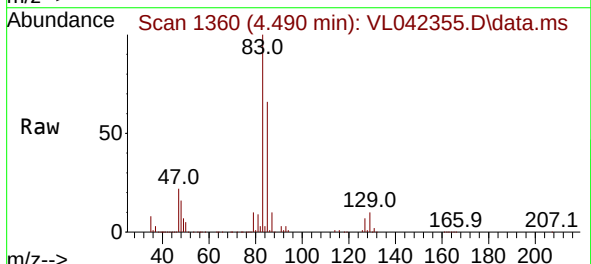
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

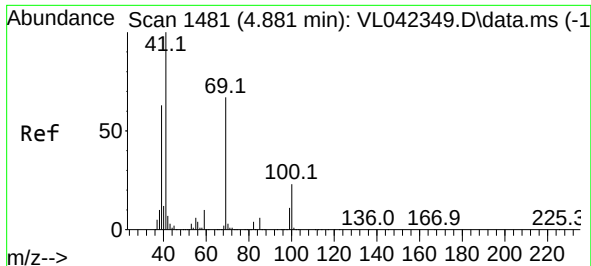
Tgt Ion: 42 Resp: 214949
Ion Ratio Lower Upper
42 100
72 39.7 32.3 48.5
71 37.9 31.4 47.2



#42
Bromodichloromethane
Concen: 14.798 ppbv
RT: 4.490 min Scan# 1360
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 83 Resp: 442735
Ion Ratio Lower Upper
83 100
85 65.9 49.7 74.5
127 7.5 5.1 7.7

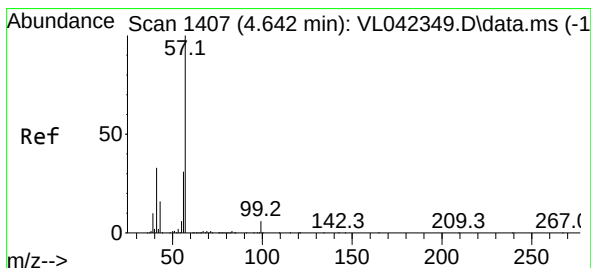
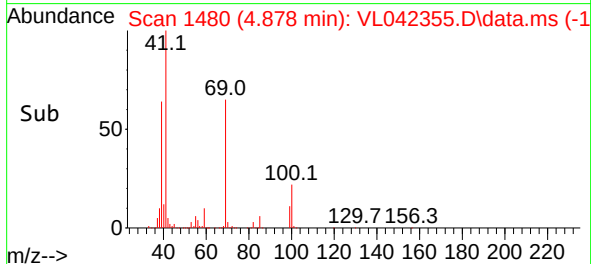
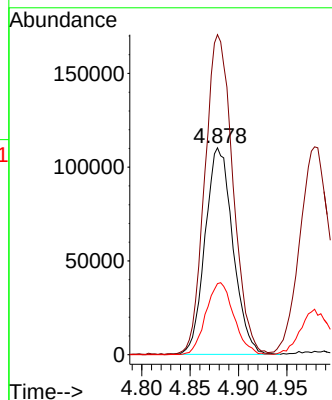
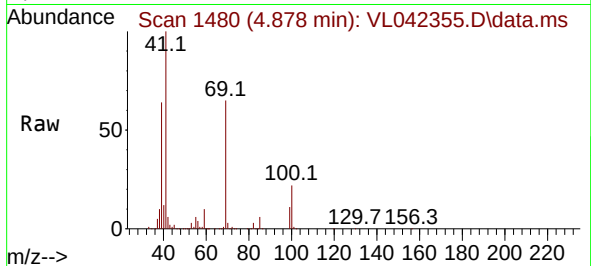




#43
Methyl Methacrylate
Concen: 13.670 ppbv
RT: 4.878 min Scan# 1480
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

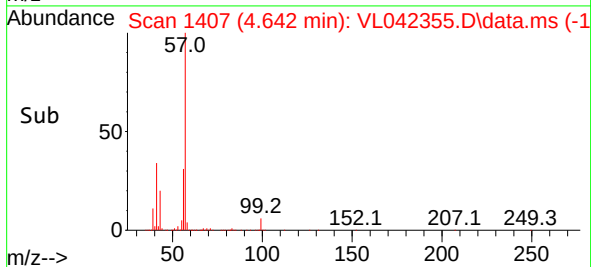
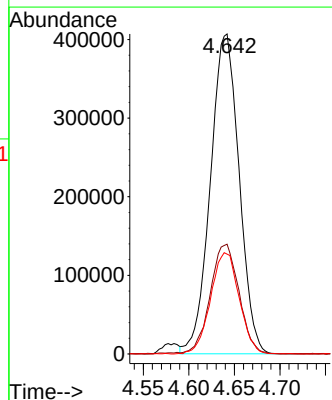
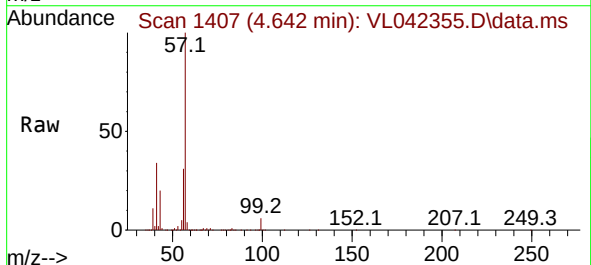
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

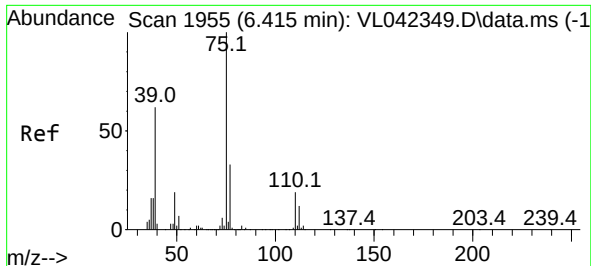
Tgt Ion: 69 Resp: 219757
Ion Ratio Lower Upper
69 100
41 156.6 118.6 177.8
100 35.2 28.2 42.2



#44
2,2,4-Trimethylpentane
Concen: 14.425 ppbv
RT: 4.642 min Scan# 1407
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 57 Resp: 893529
Ion Ratio Lower Upper
57 100
41 34.4 27.2 40.8
56 31.6 25.7 38.5





#45

t-1,3-Dichloropropene

Concen: 14.810 ppbv

RT: 6.412 min Scan# 1955

Delta R.T. -0.003 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Instrument :

MSVOA_1

ClientSampleId :

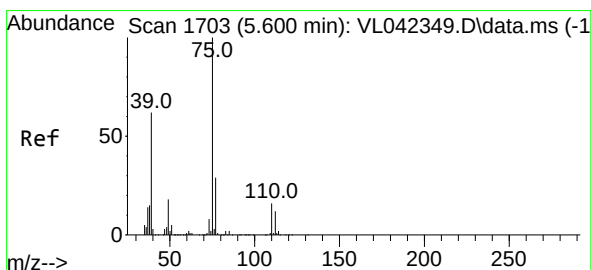
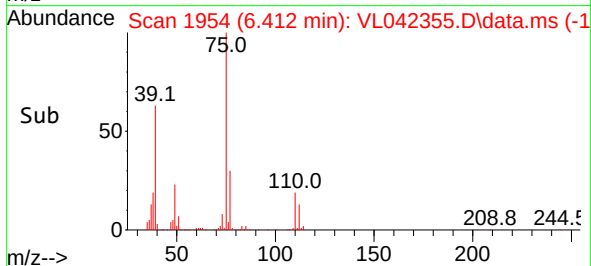
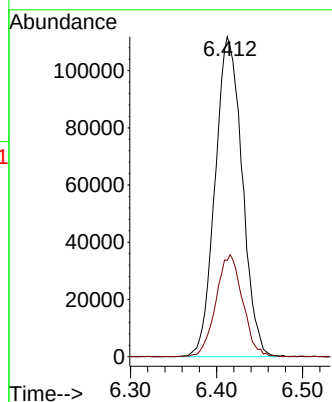
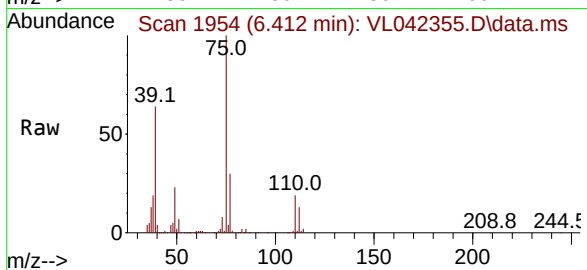
VSTDIC015

Tgt Ion: 75 Resp: 244470

Ion Ratio Lower Upper

75 100

77 30.1 27.0 40.6



#46

cis-1,3-Dichloropropene

Concen: 14.878 ppbv

RT: 5.600 min Scan# 1703

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

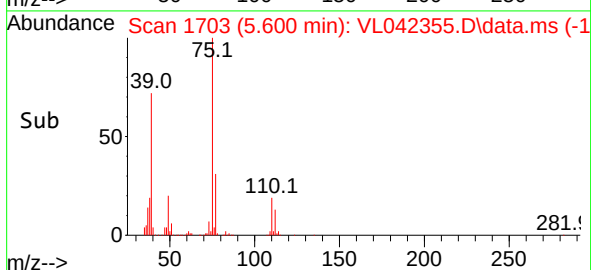
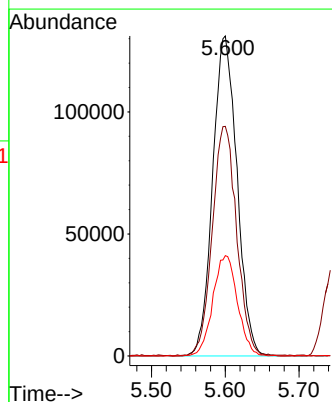
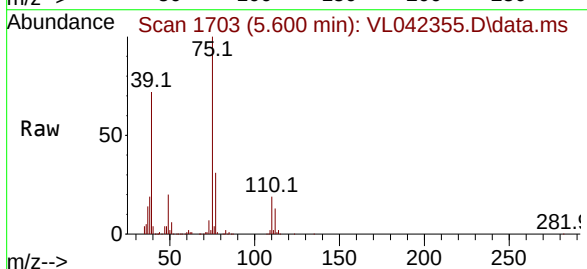
Tgt Ion: 75 Resp: 300145

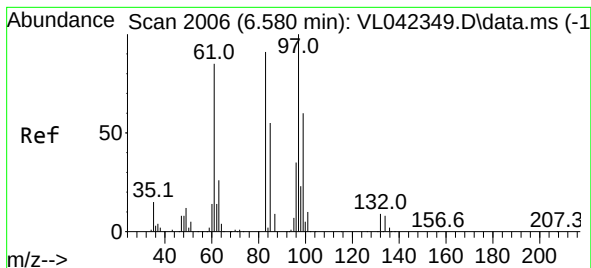
Ion Ratio Lower Upper

75 100

39 71.6 50.0 75.0

77 31.3 23.0 34.6





#47

1,1,2-Trichloroethane

Concen: 14.615 ppbv

RT: 6.581 min Scan# 2006

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 97 Resp: 198874

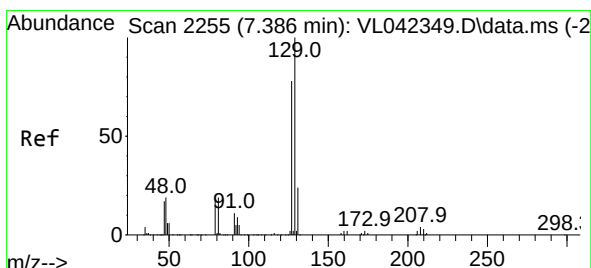
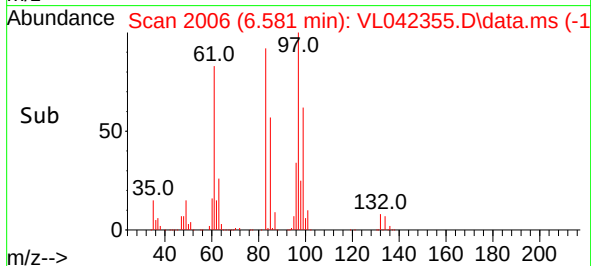
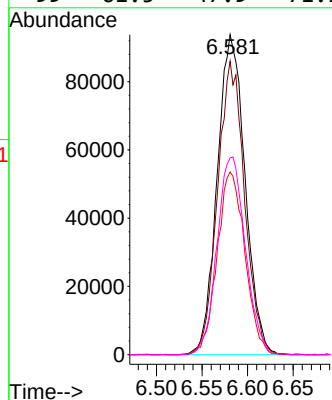
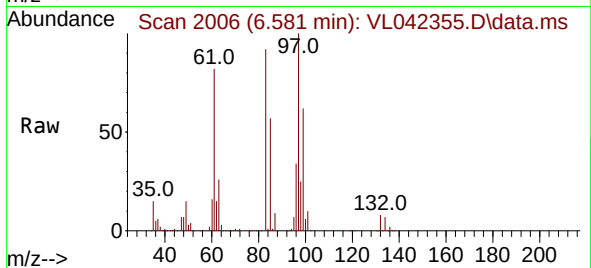
Ion Ratio Lower Upper

97 100

83 91.7 72.8 109.2

85 57.0 44.2 66.4

99 61.5 47.9 71.9



#48

Dibromochloromethane

Concen: 15.105 ppbv

RT: 7.390 min Scan# 2256

Delta R.T. 0.004 min

Lab File: VL042355.D

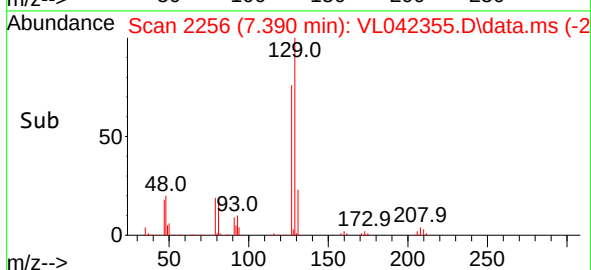
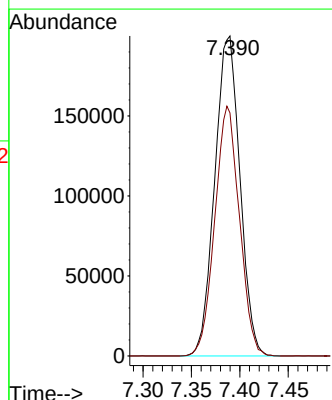
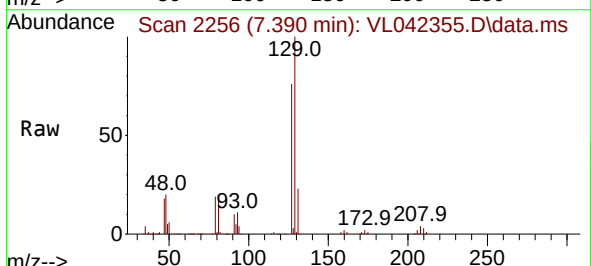
Acq: 17 Apr 2025 12:54

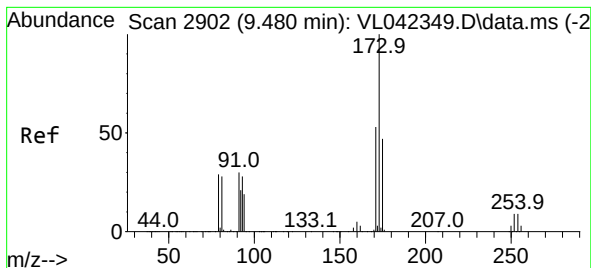
Tgt Ion: 129 Resp: 362887

Ion Ratio Lower Upper

129 100

127 76.3 39.1 117.3





#49

Bromoform

Concen: 14.865 ppbv

RT: 9.484 min Scan# 2902

Delta R.T. 0.004 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

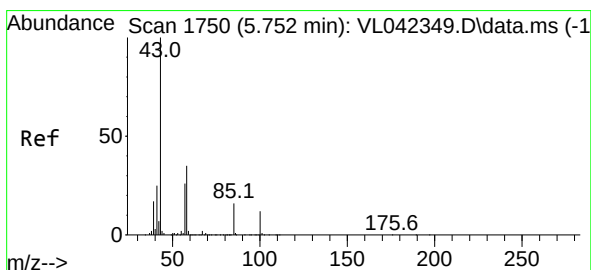
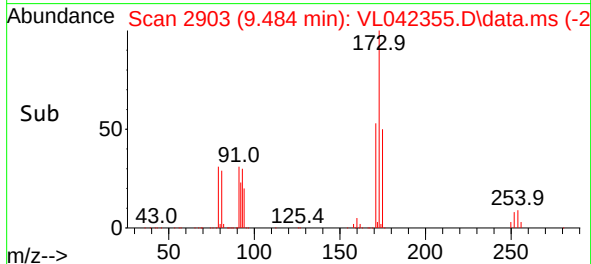
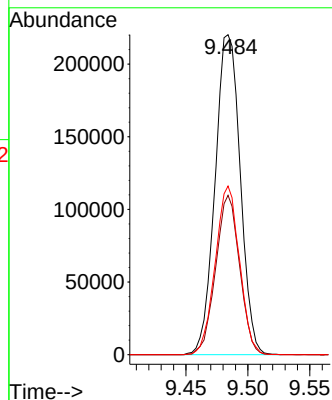
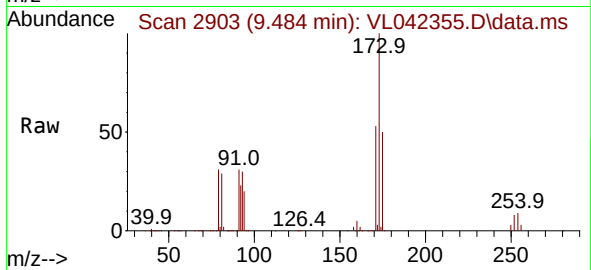
Tgt Ion:173 Resp: 312282

Ion Ratio Lower Upper

173 100

175 47.3 38.2 57.2

171 50.6 40.9 61.3



#50

4-Methyl-2-Pentanone

Concen: 12.889 ppbv

RT: 5.749 min Scan# 1749

Delta R.T. -0.003 min

Lab File: VL042355.D

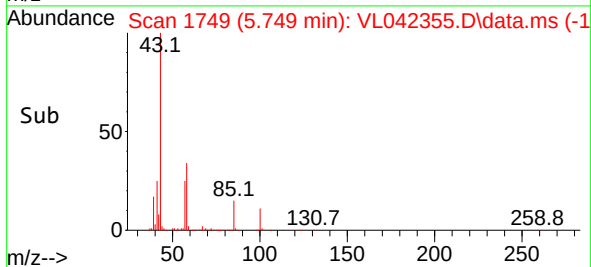
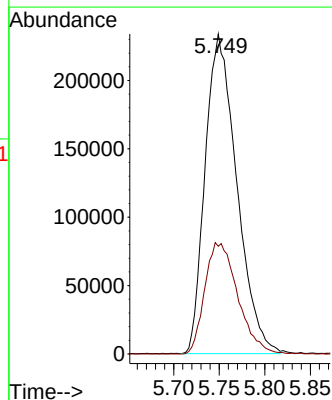
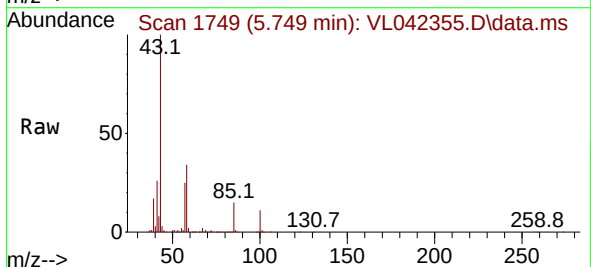
Acq: 17 Apr 2025 12:54

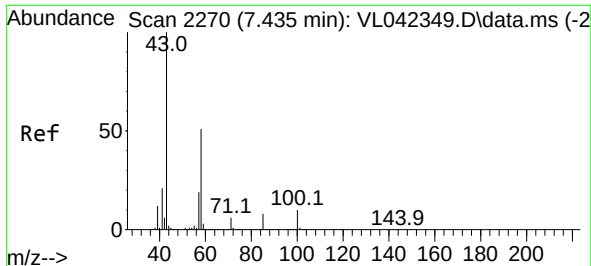
Tgt Ion: 43 Resp: 563658

Ion Ratio Lower Upper

43 100

58 36.3 28.6 43.0

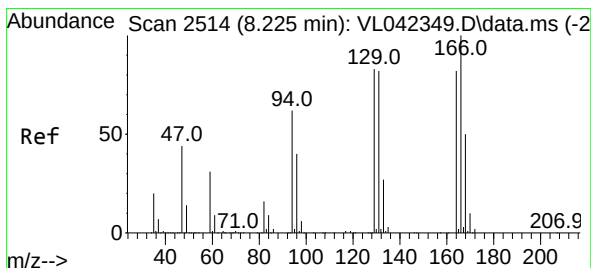
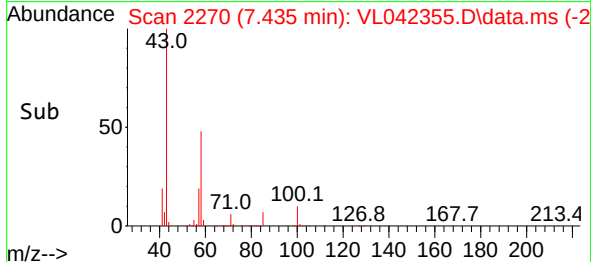
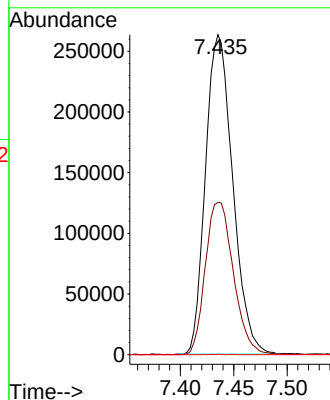
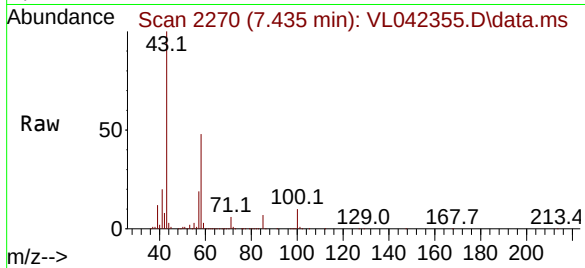




#51
2-Hexanone
Concen: 11.834 ppbv
RT: 7.435 min Scan# 211
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

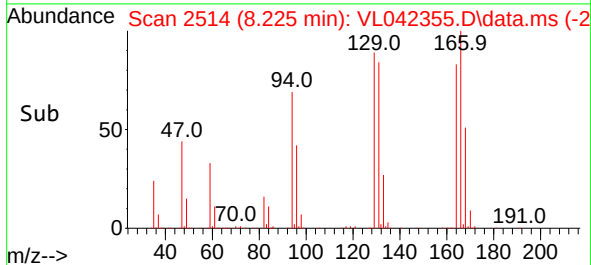
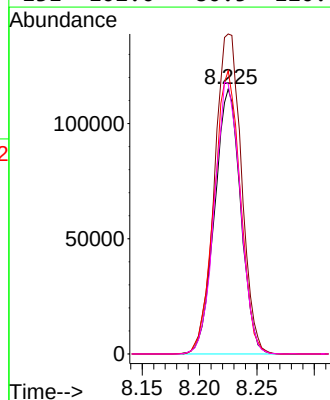
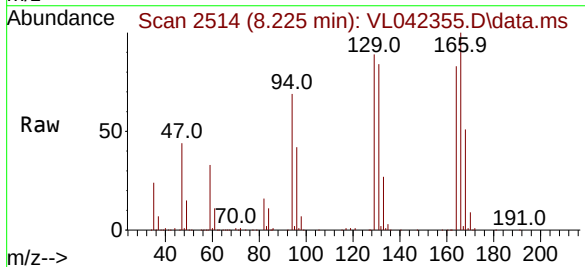
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

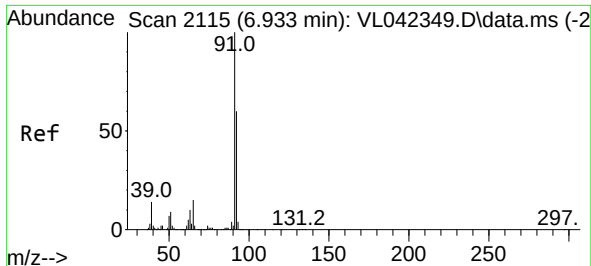
Tgt Ion: 43 Resp: 467001
Ion Ratio Lower Upper
43 100
58 49.2 40.2 60.4
98 0.0 0.1 0.1#



#52
Tetrachloroethene
Concen: 13.046 ppbv
RT: 8.225 min Scan# 2514
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 164 Resp: 180631
Ion Ratio Lower Upper
164 100
166 120.8 98.2 147.2
129 107.0 81.8 122.8
131 102.0 80.5 120.7

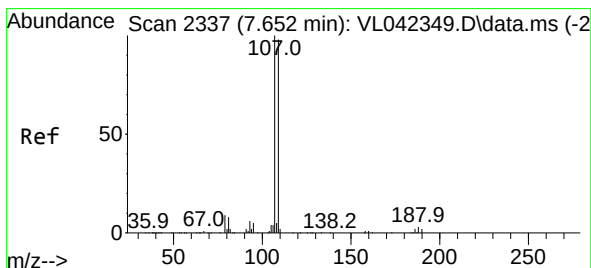
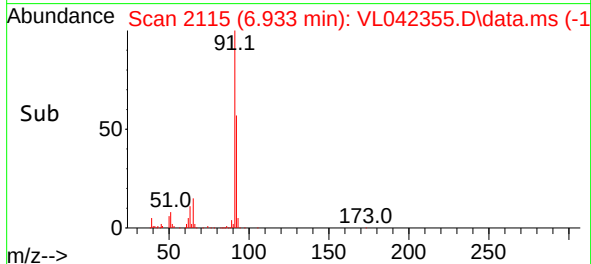
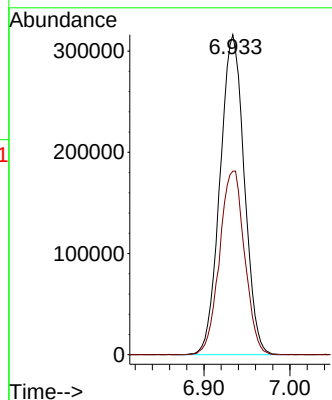
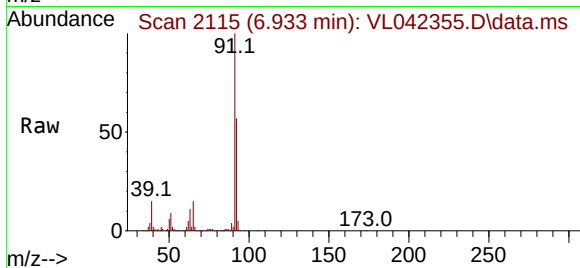




#53
Toluene
Concen: 14.411 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

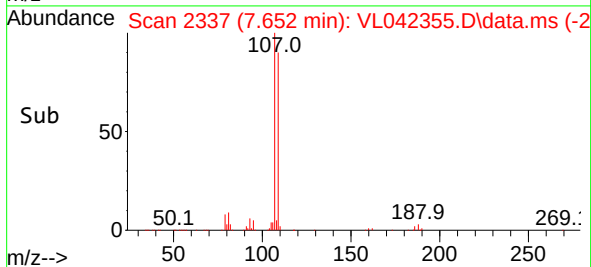
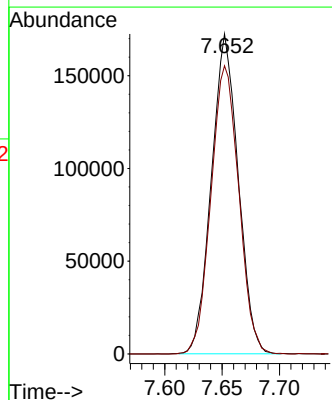
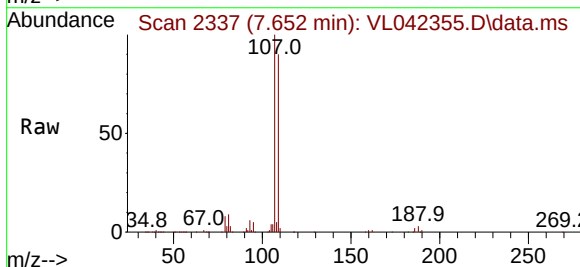
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

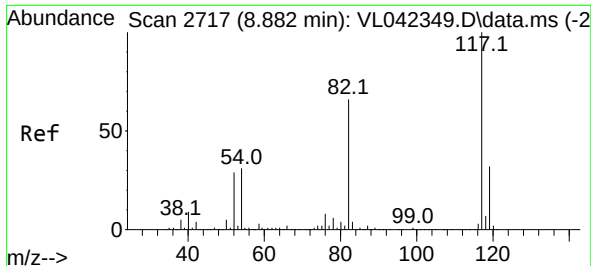
Tgt Ion: 91 Resp: 619420
Ion Ratio Lower Upper
91 100
92 59.3 48.2 72.4



#54
1,2-Dibromoethane
Concen: 14.442 ppbv
RT: 7.652 min Scan# 2337
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 107 Resp: 280071
Ion Ratio Lower Upper
107 100
109 89.9 78.2 117.4

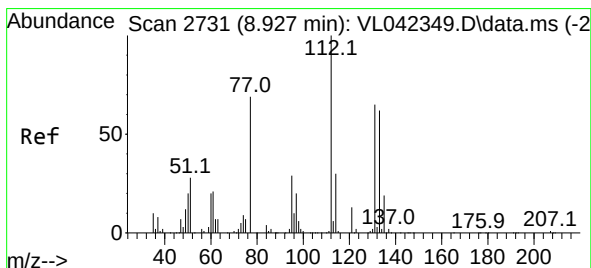
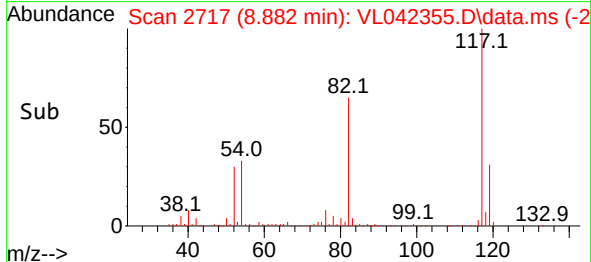
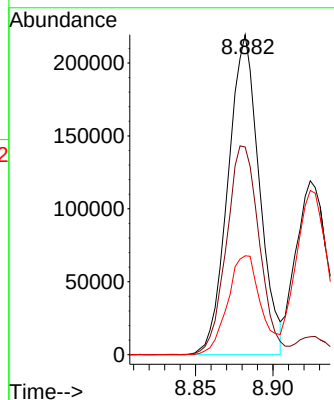
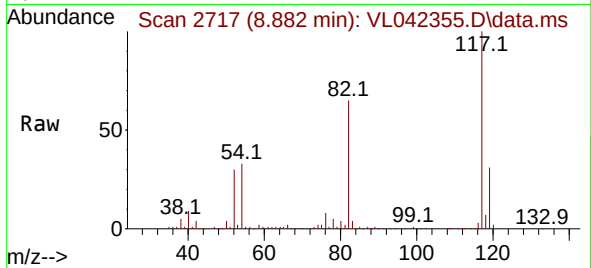




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2717
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

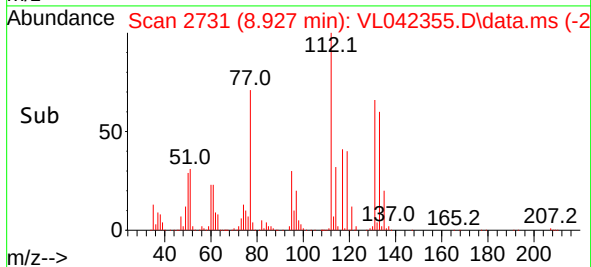
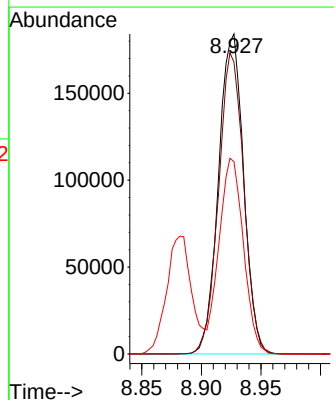
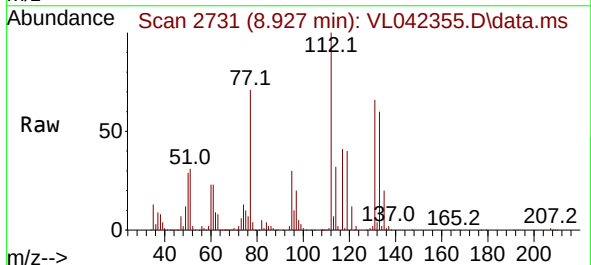
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

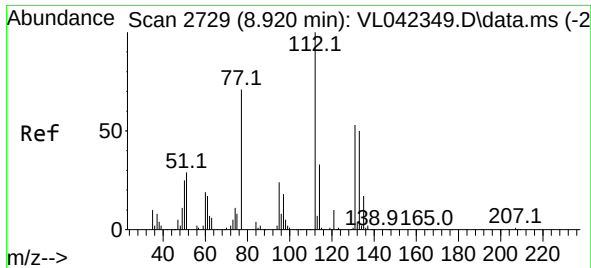
Tgt Ion:117 Resp: 308463
Ion Ratio Lower Upper
117 100
82 74.2 57.8 86.6
119 31.4 25.2 37.8



#56
1,1,1,2-Tetrachloroethane
Concen: 14.389 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:131 Resp: 268626
Ion Ratio Lower Upper
131 100
133 94.6 78.3 117.5
119 59.4 48.7 73.1

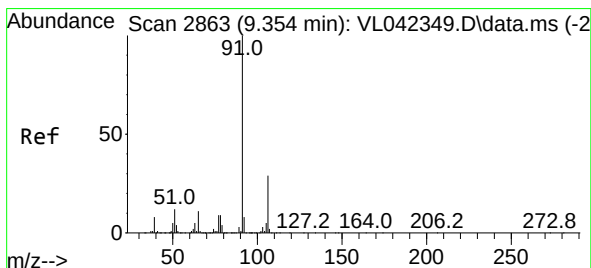
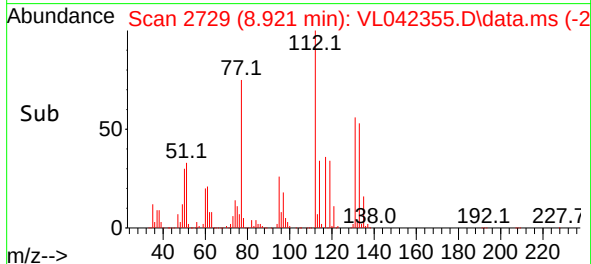
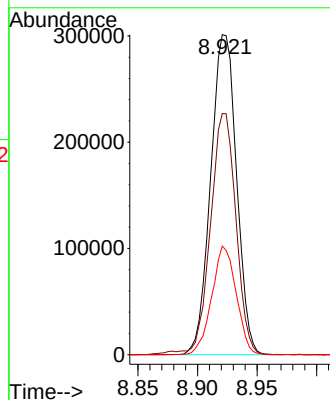
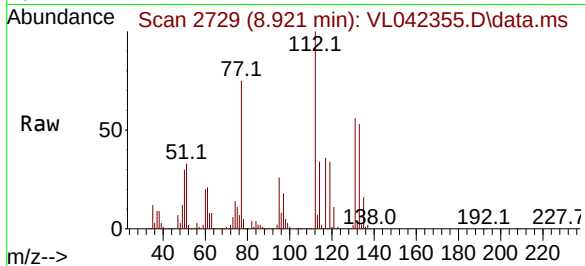




#57
Chlorobenzene
Concen: 14.151 ppbv
RT: 8.921 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

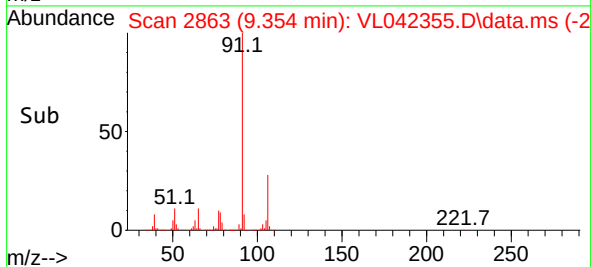
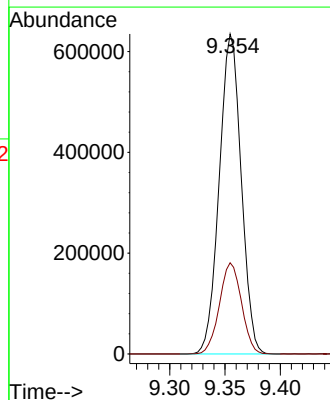
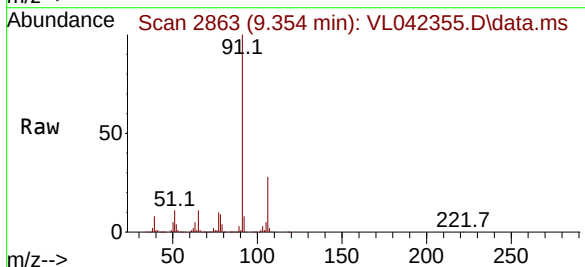
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

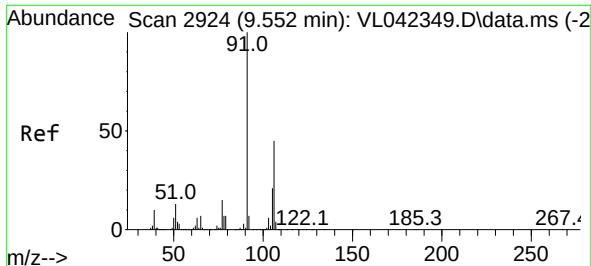
Tgt Ion:112 Resp: 454017
Ion Ratio Lower Upper
112 100
77 75.3 57.8 86.6
114 33.9 29.3 35.9



#58
Ethyl Benzene
Concen: 14.308 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 91 Resp: 874424
Ion Ratio Lower Upper
91 100
106 28.5 23.0 34.4





#59

m/p-Xylene

Concen: 13.067 ppbv

RT: 9.552 min Scan# 2924

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Instrument :

MSVOA_L

ClientSampleId :

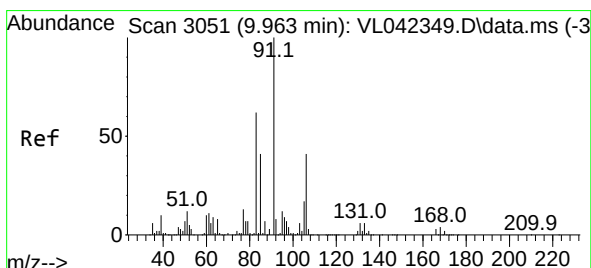
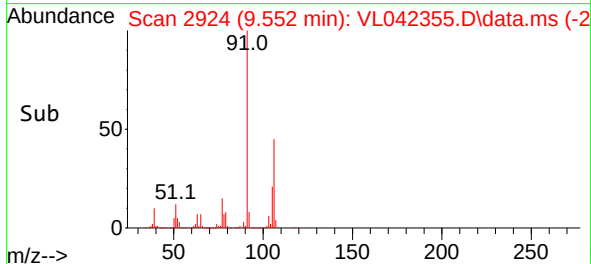
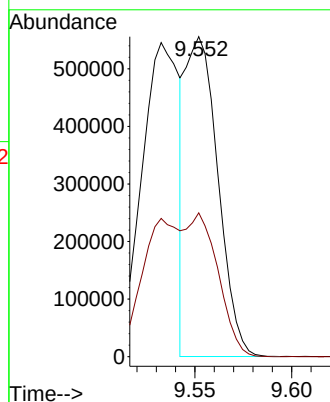
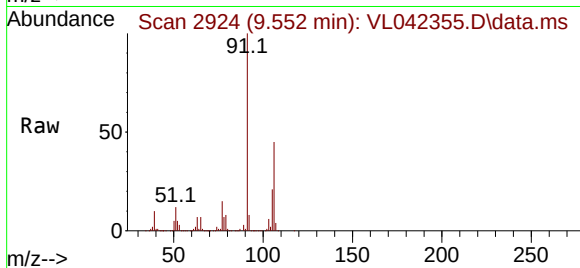
VSTDIC015

Tgt Ion: 91 Resp: 645250

Ion Ratio Lower Upper

91 100

106 95.8 35.4 53.2#



#60

o-Xylene

Concen: 13.902 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. 0.000 min

Lab File: VL042355.D

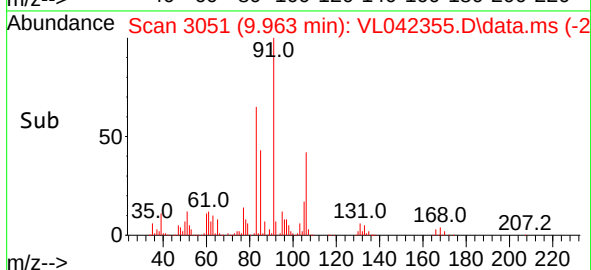
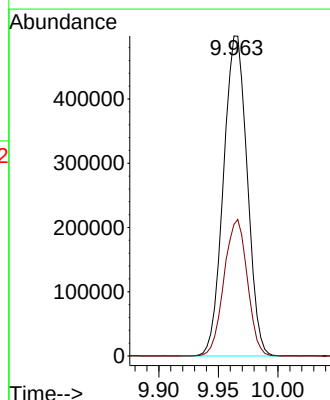
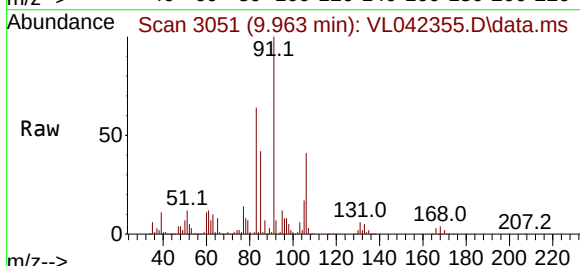
Acq: 17 Apr 2025 12:54

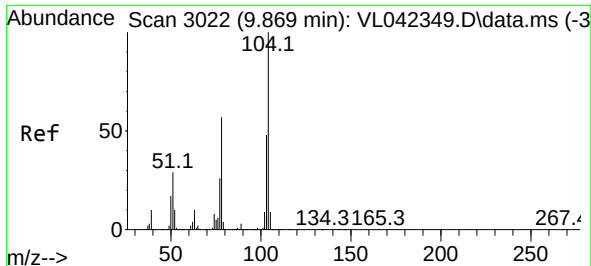
Tgt Ion: 91 Resp: 689246

Ion Ratio Lower Upper

91 100

106 41.9 21.1 63.4

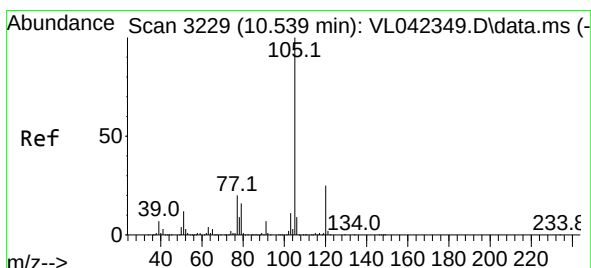
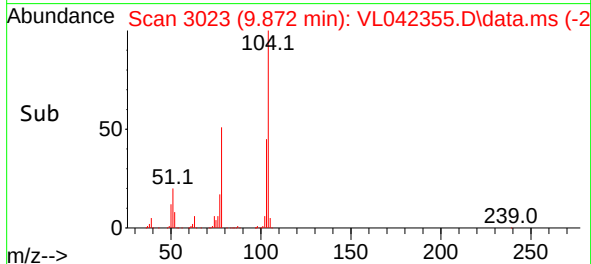
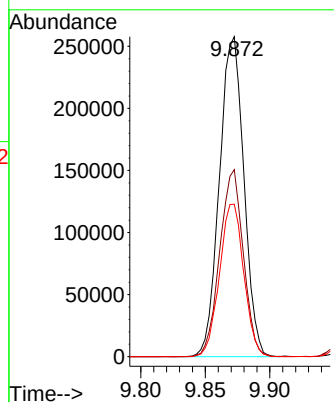
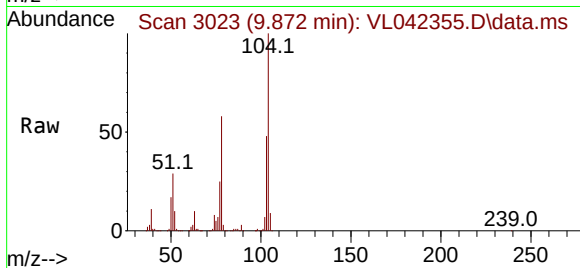




#61
Styrene
Concen: 14.347 ppbv
RT: 9.872 min Scan# 3023
Delta R.T. 0.004 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

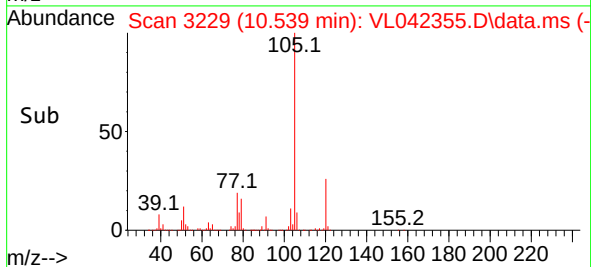
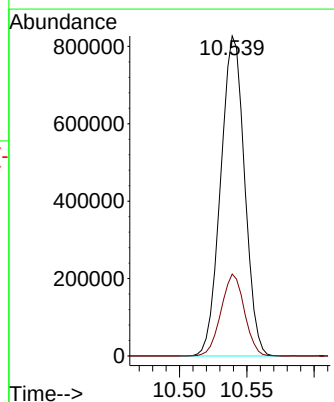
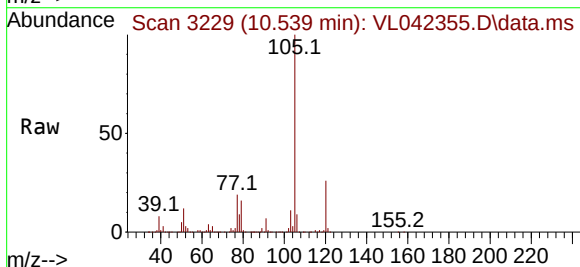
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

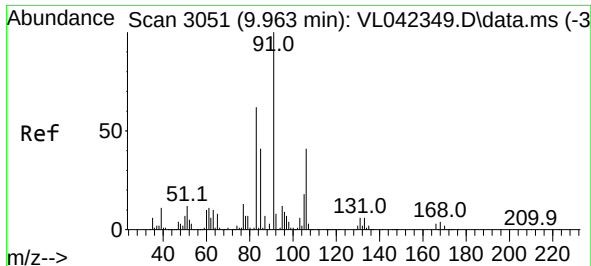
Tgt Ion:104 Resp: 339508
Ion Ratio Lower Upper
104 100
78 56.4 44.6 66.8
103 47.3 37.4 56.0



#62
Isopropylbenzene
Concen: 13.999 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:105 Resp: 1018968
Ion Ratio Lower Upper
105 100
120 25.0 19.8 29.8

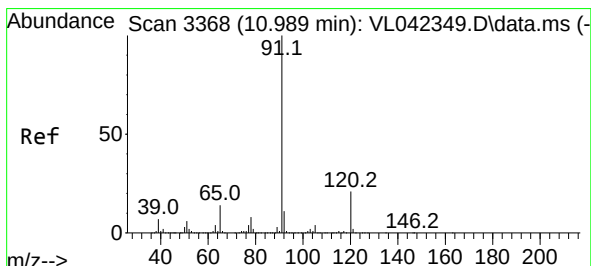
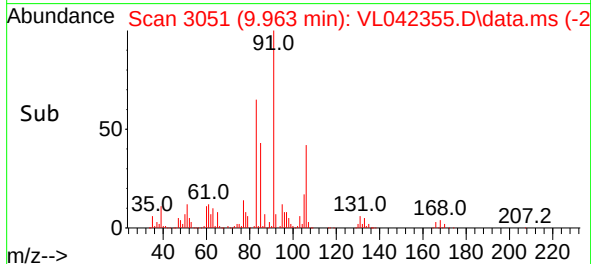
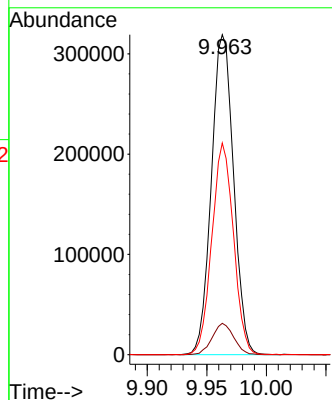
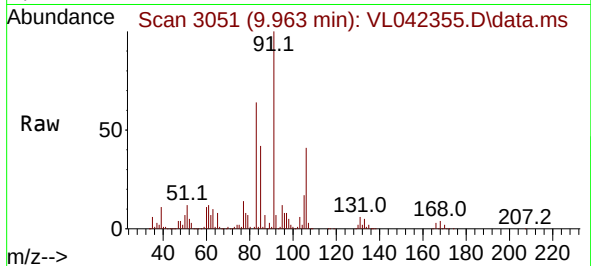




#63
 1,1,2,2-Tetrachloroethane
 Concen: 12.816 ppbv
 RT: 9.963 min Scan# 3051
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

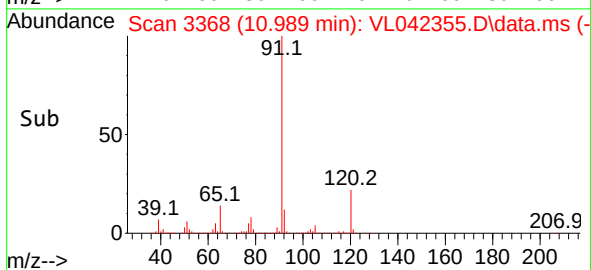
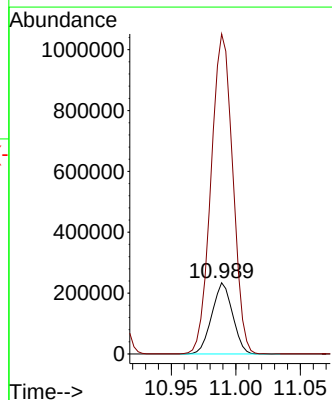
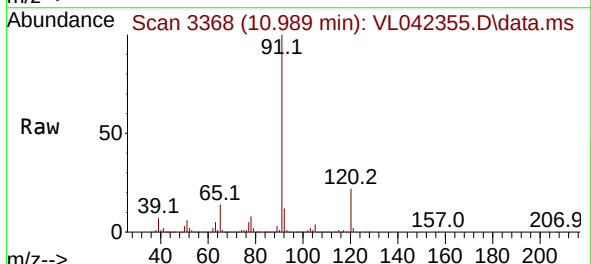
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

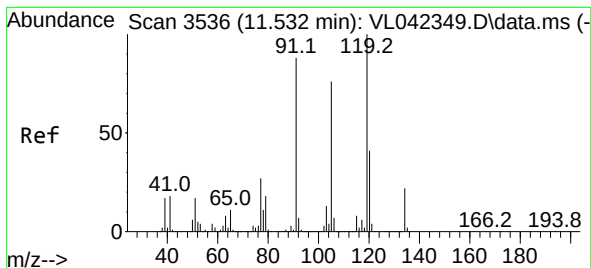
Tgt Ion: 83 Resp: 412898
 Ion Ratio Lower Upper
 83 100
 131 9.5 4.5 13.7
 85 64.5 32.4 97.0



#64
 n-propylbenzene
 Concen: 14.255 ppbv
 RT: 10.989 min Scan# 3368
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

Tgt Ion: 120 Resp: 260812
 Ion Ratio Lower Upper
 120 100
 91 473.2 392.4 588.6





#65

tert-Butylbenzene

Concen: 13.449 ppbv

RT: 11.533 min Scan# 3536

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC015

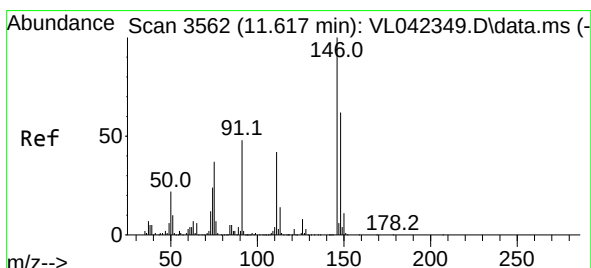
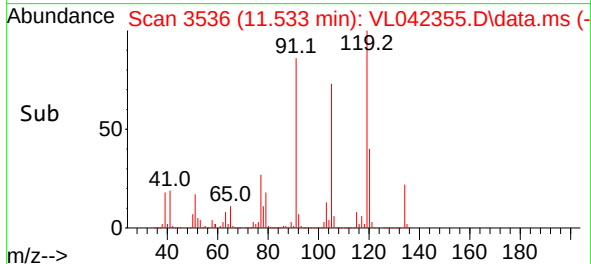
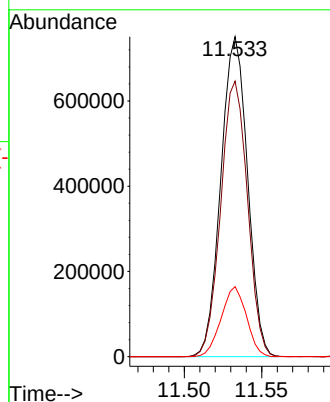
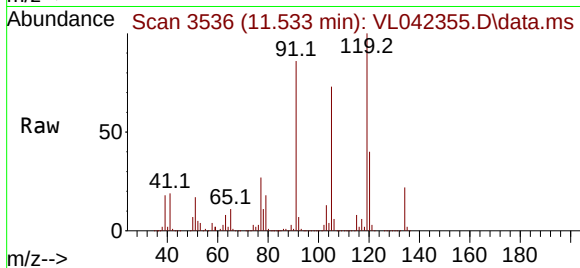
Tgt Ion:119 Resp: 899720

Ion Ratio Lower Upper

119 100

91 86.2 74.6 111.8

134 20.8 18.8 28.2



#66

Benzyl Chloride

Concen: 13.061 ppbv

RT: 11.617 min Scan# 3562

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

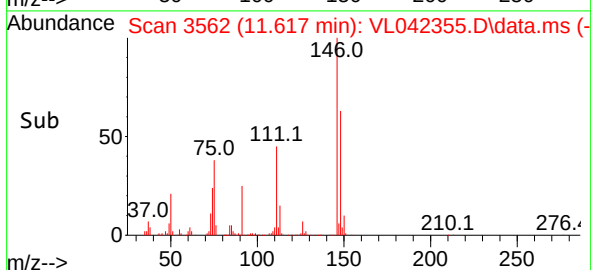
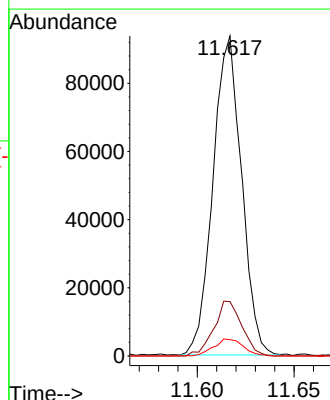
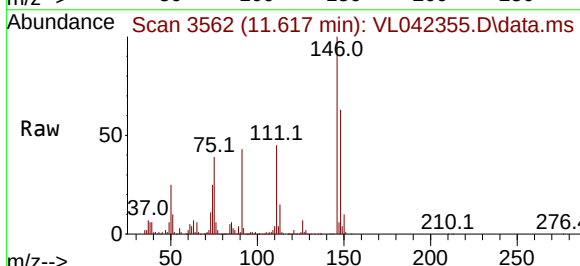
Tgt Ion: 91 Resp: 96016

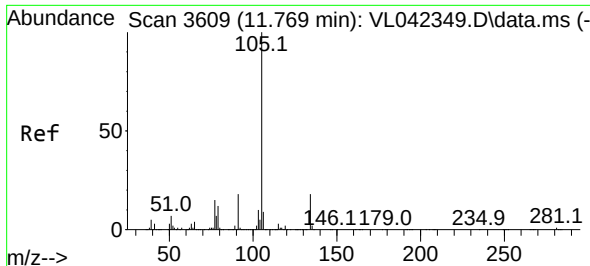
Ion Ratio Lower Upper

91 100

126 16.8 11.8 17.6

128 5.5 4.5 6.7

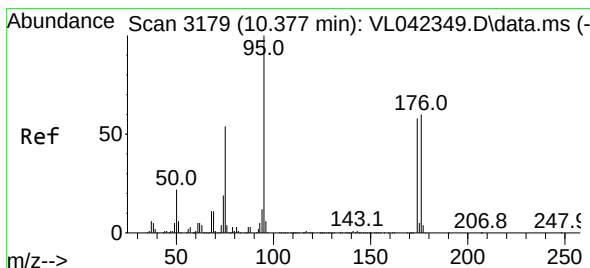
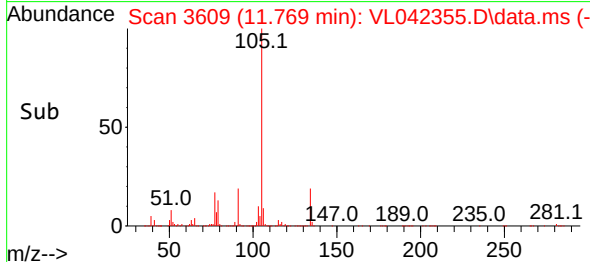
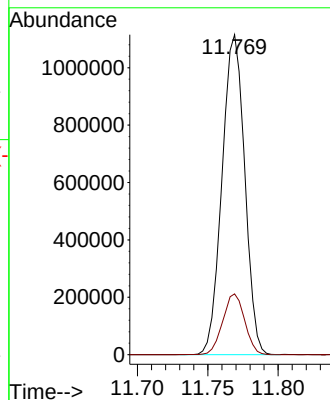
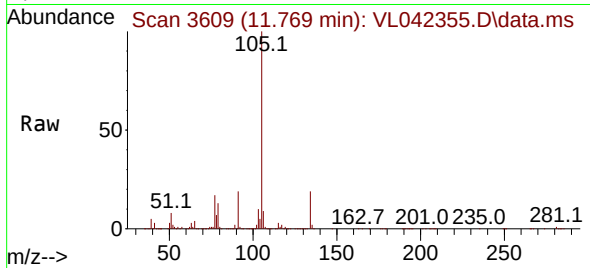




#67
 sec-Butylbenzene
 Concen: 13.468 ppbv
 RT: 11.769 min Scan# 3609
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

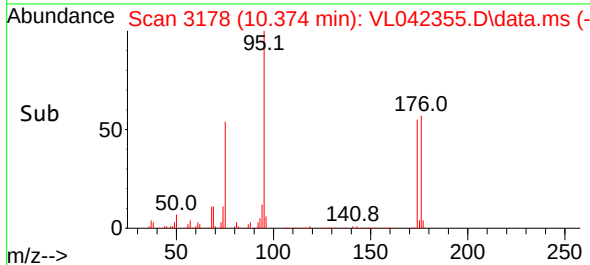
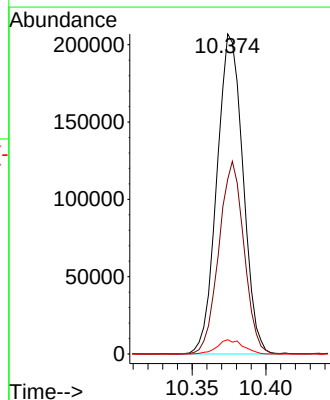
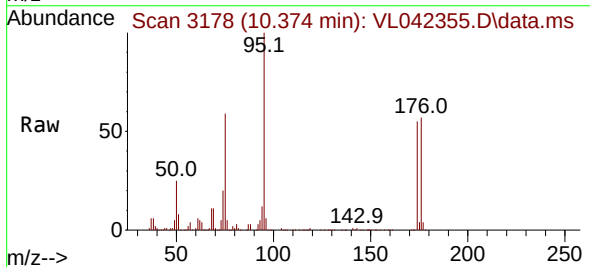
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC015

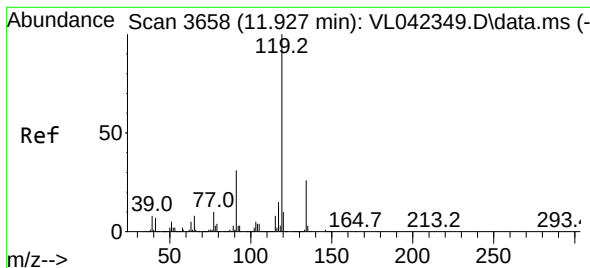
Tgt Ion:105 Resp: 1253263
 Ion Ratio Lower Upper
 105 100
 134 18.4 14.6 21.8



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.038 ppbv
 RT: 10.374 min Scan# 3178
 Delta R.T. -0.003 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

Tgt Ion: 95 Resp: 254437
 Ion Ratio Lower Upper
 95 100
 174 58.1 48.5 72.7
 175 4.4 3.7 5.5

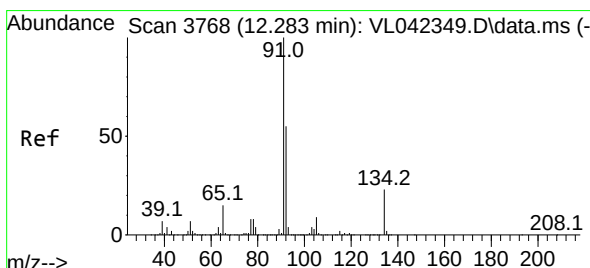
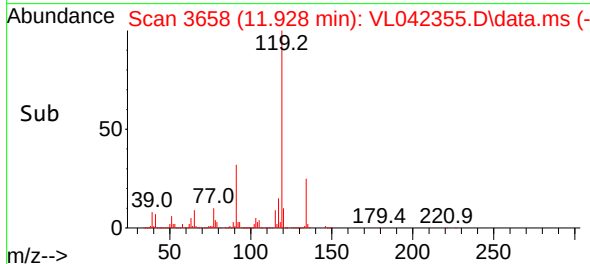
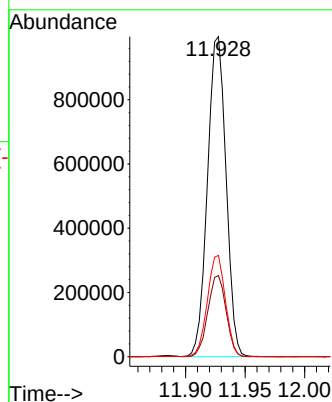
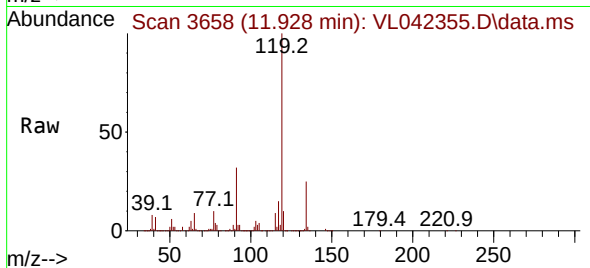




#69
 p-Isopropyltoluene
 Concen: 13.382 ppbv
 RT: 11.928 min Scan# 3658
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

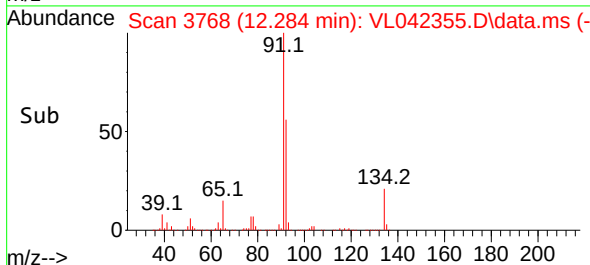
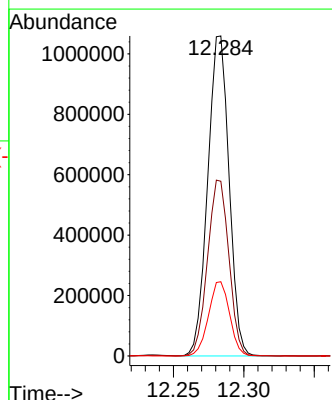
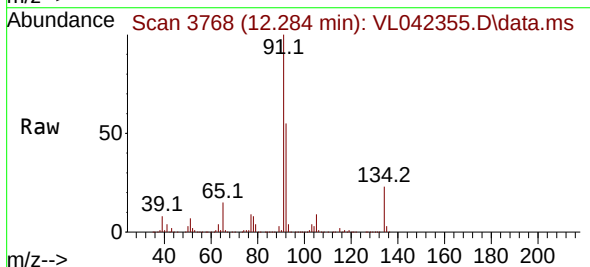
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

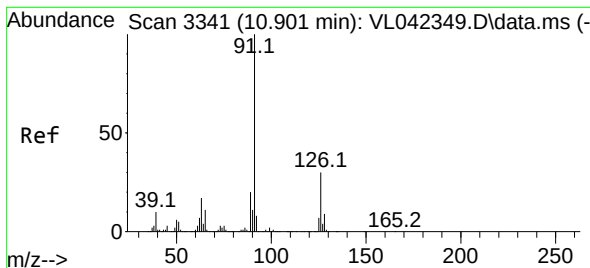
Tgt Ion:119 Resp: 1081850
 Ion Ratio Lower Upper
 119 100
 134 25.0 20.0 30.0
 91 31.1 24.4 36.6



#70
 n-Butylbenzene
 Concen: 13.266 ppbv
 RT: 12.284 min Scan# 3768
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

Tgt Ion: 91 Resp: 1117042
 Ion Ratio Lower Upper
 91 100
 92 55.3 44.2 66.4
 134 23.0 18.2 27.4

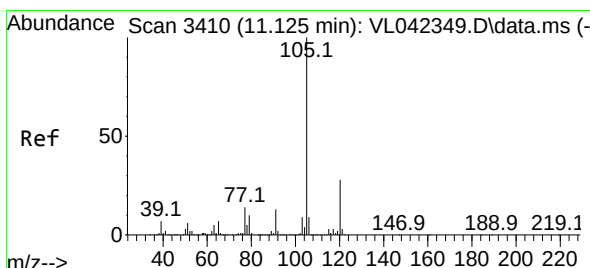
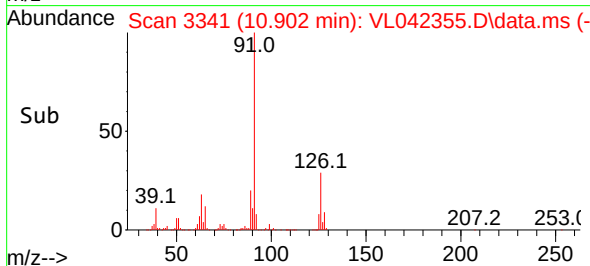
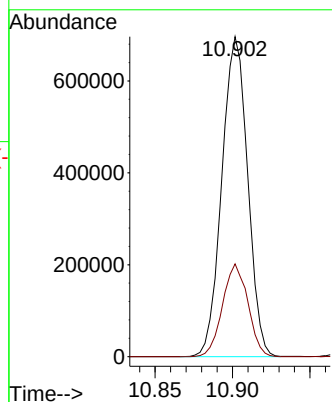
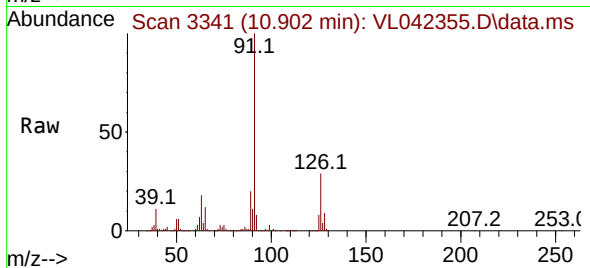




#71
2-Chlorotoluene
Concen: 14.131 ppbv
RT: 10.902 min Scan# 3341
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

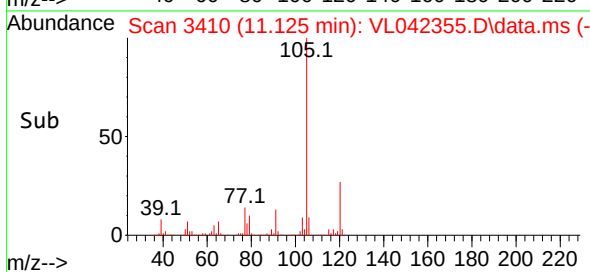
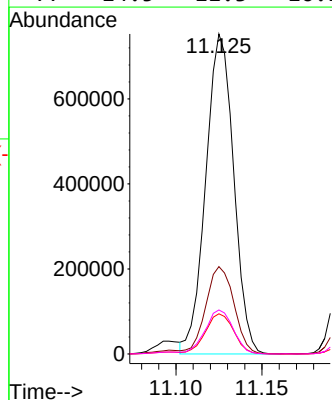
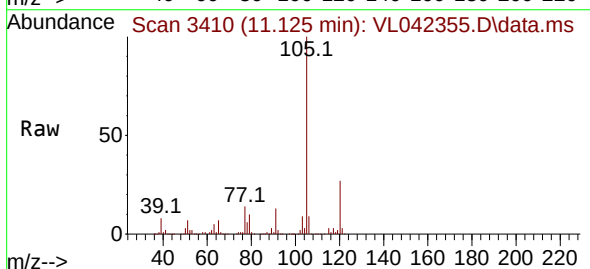
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

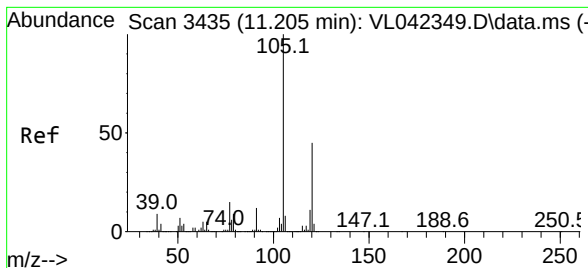
Tgt Ion: 91 Resp: 806728
Ion Ratio Lower Upper
91 100
126 28.4 11.4 45.4



#72
4-Ethyltoluene
Concen: 13.992 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:105 Resp: 848077
Ion Ratio Lower Upper
105 100
120 28.7 23.2 34.8
91 13.5 10.4 15.6
77 14.5 11.3 16.9





#73

1,3,5-Trimethylbenzene

Concen: 13.578 ppbv

RT: 11.206 min Scan# 3435

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Instrument :

MSVOA_1

ClientSampleId :

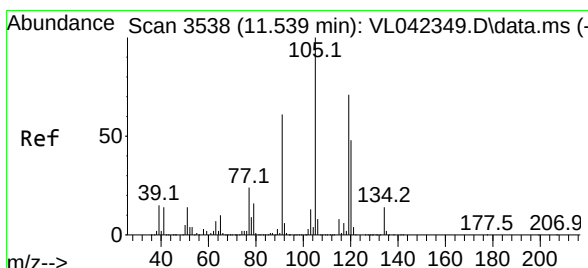
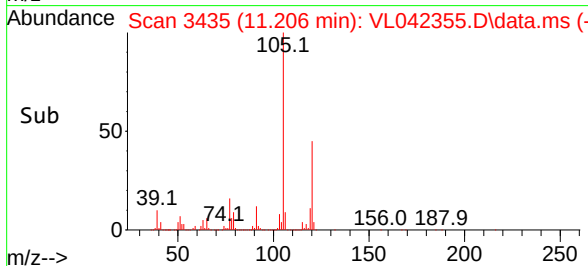
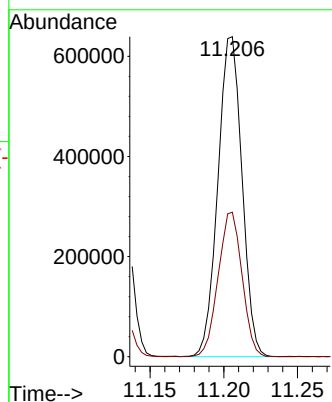
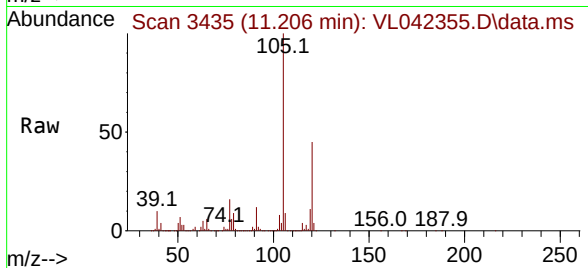
VSTDIC015

Tgt Ion:105 Resp: 726558

Ion Ratio Lower Upper

105 100

120 45.1 35.6 53.4



#74

1,2,4-Trimethylbenzene

Concen: 12.572 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Tgt Ion:105 Resp: 785772

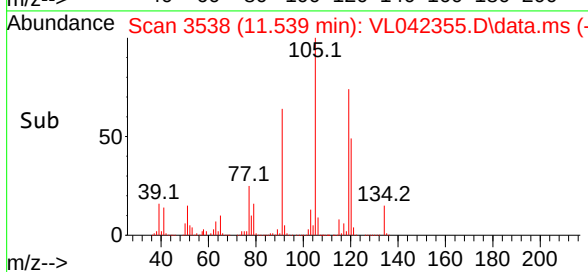
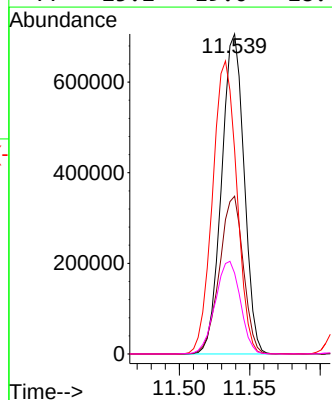
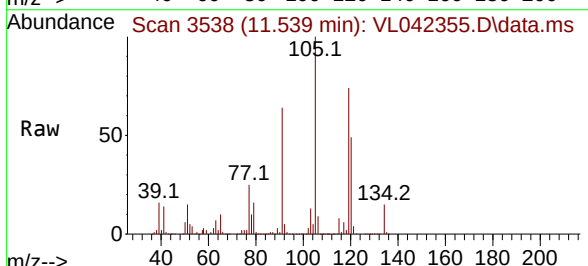
Ion Ratio Lower Upper

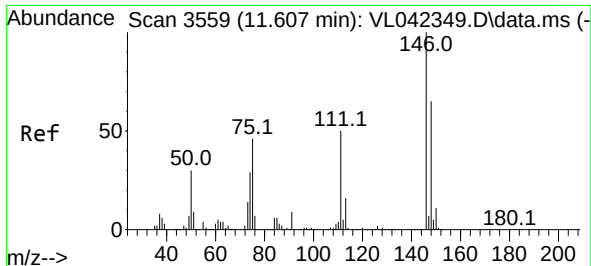
105 100

120 49.3 38.1 57.1

91 63.7 48.8 73.2

77 25.2 19.0 28.4

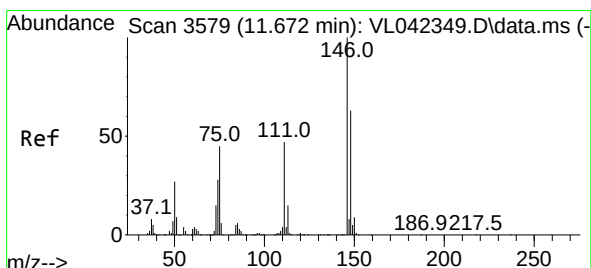
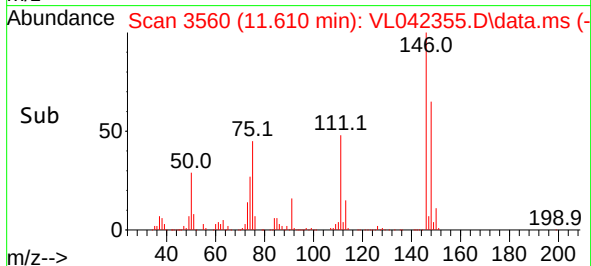
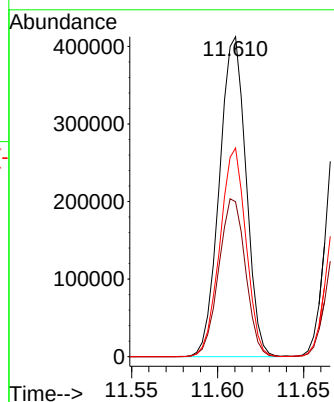
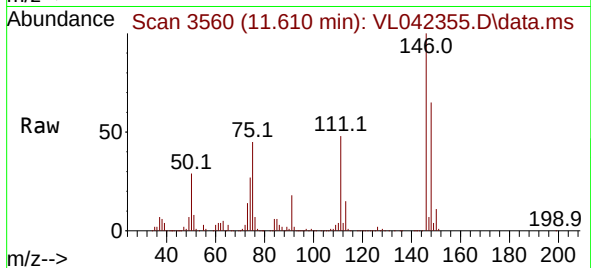




#75
1,3-Dichlorobenzene
Concen: 13.670 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. 0.004 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

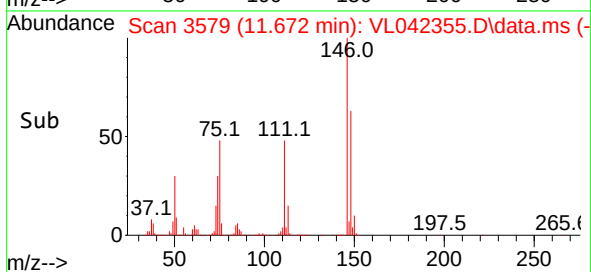
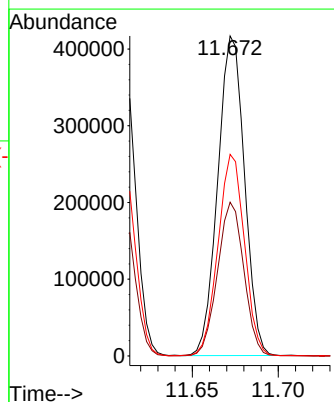
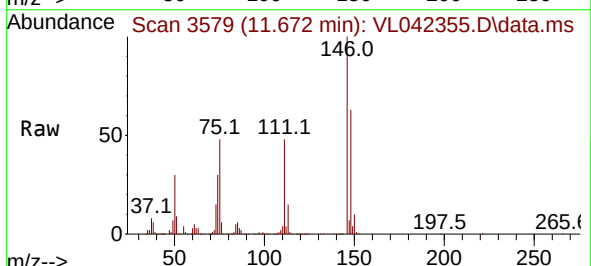
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

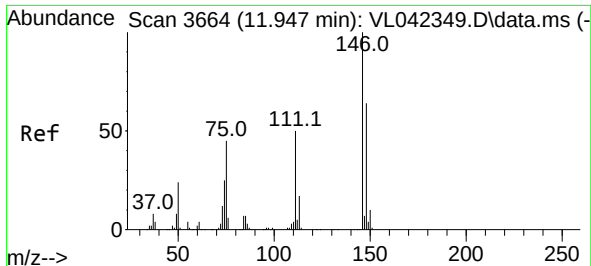
Tgt Ion:146 Resp: 444086
Ion Ratio Lower Upper
146 100
111 49.6 24.3 72.8
148 63.9 31.6 94.8



#76
1,4-Dichlorobenzene
Concen: 13.802 ppbv
RT: 11.672 min Scan# 3579
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:146 Resp: 450662
Ion Ratio Lower Upper
146 100
111 47.4 24.2 72.6
148 62.6 32.1 96.5

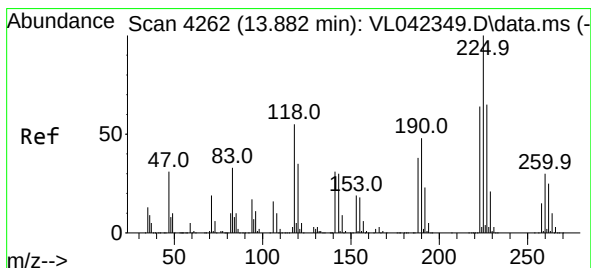
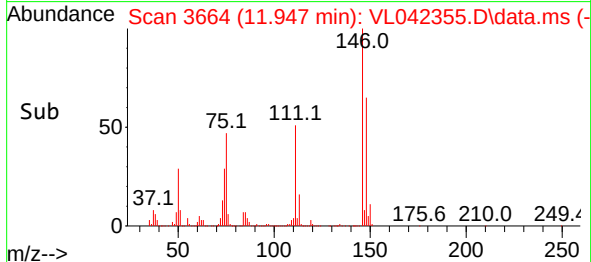
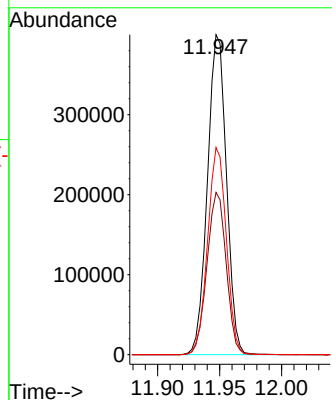
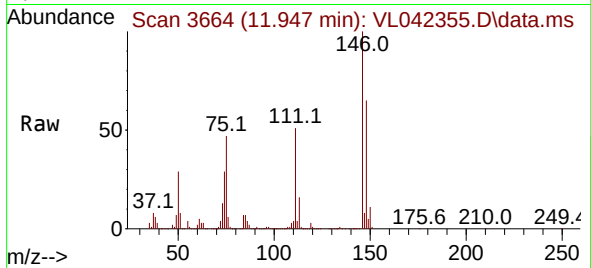




#77
1,2-Dichlorobenzene
Concen: 13.529 ppbv
RT: 11.947 min Scan# 3664
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

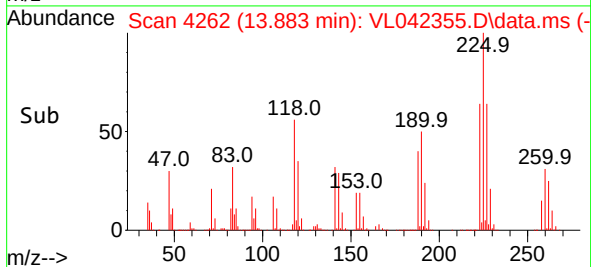
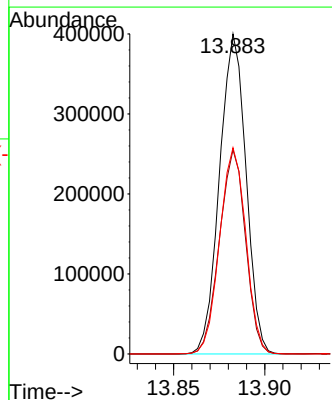
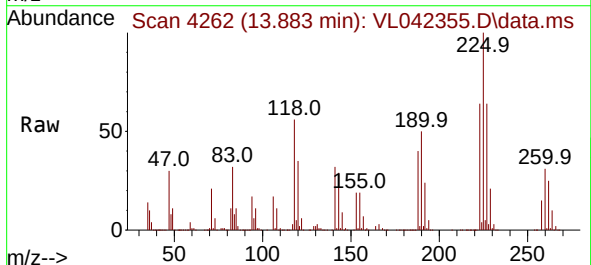
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

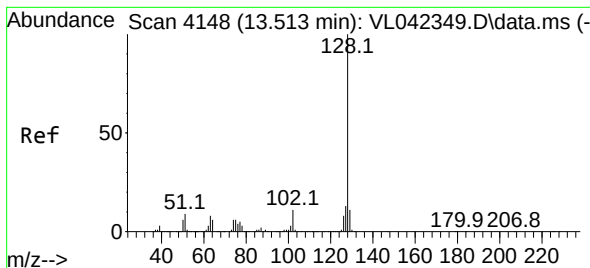
Tgt Ion:146 Resp: 427372
Ion Ratio Lower Upper
146 100
111 51.3 25.3 75.9
148 63.8 31.5 94.5



#78
Hexachloro-1,3-Butadiene
Concen: 12.679 ppbv
RT: 13.883 min Scan# 4262
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:225 Resp: 404441
Ion Ratio Lower Upper
225 100
223 62.8 50.3 75.5
227 63.8 51.5 77.3





#79

Naphthalene

Concen: 12.632 ppbv

RT: 13.514 min Scan# 4148

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC015

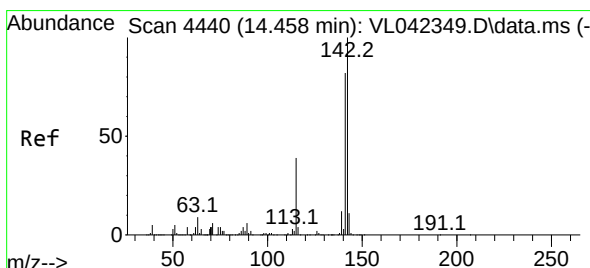
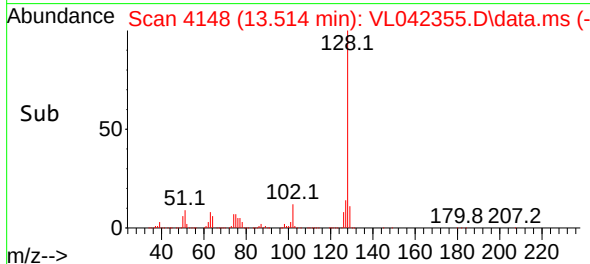
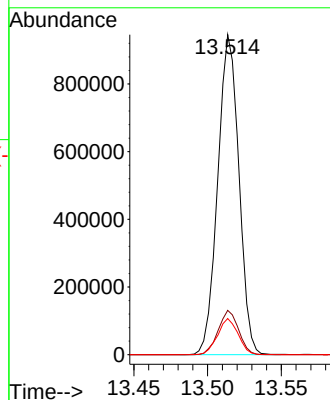
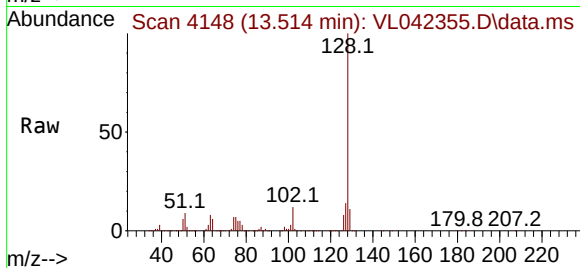
Tgt Ion:128 Resp: 944085

Ion Ratio Lower Upper

128 100

127 13.9 10.6 15.8

129 11.3 8.6 12.8



#80

Naphthalene,2-methyl-

Concen: 12.686 ppbv

RT: 14.459 min Scan# 4440

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

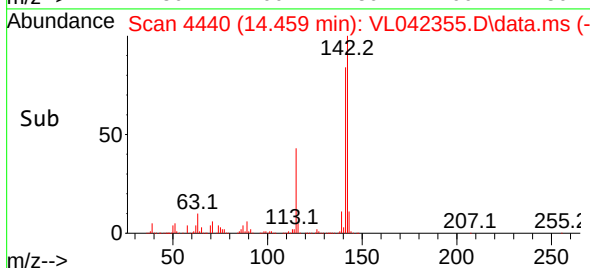
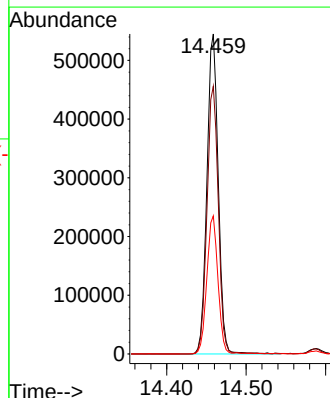
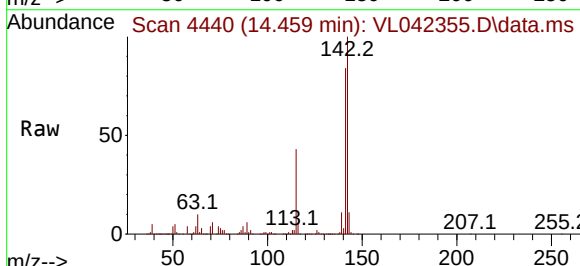
Tgt Ion:142 Resp: 540339

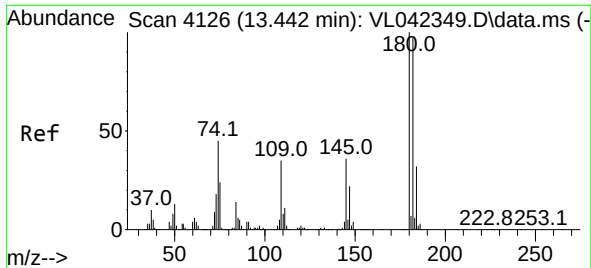
Ion Ratio Lower Upper

142 100

141 84.3 66.8 100.2

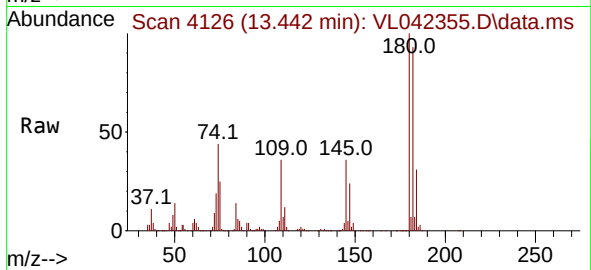
115 43.0 33.4 50.2





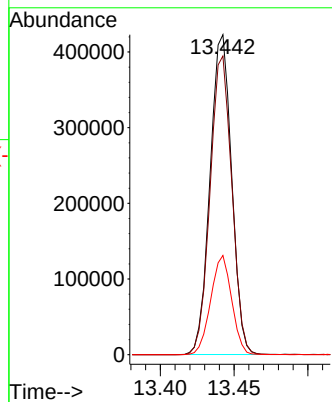
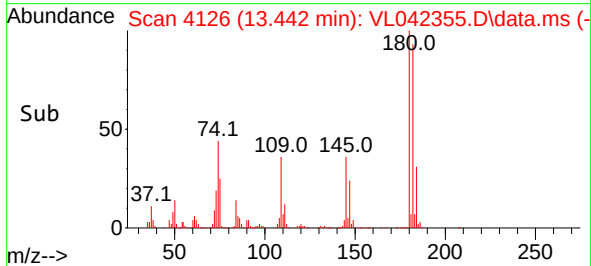
#81
 1,2,4-Trichlorobenzene
 Concen: 13.398 ppbv
 RT: 13.442 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



Tgt Ion:180 Resp: 429982

Ion	Ratio	Lower	Upper
180	100		
182	94.3	76.8	115.2
184	30.2	24.6	36.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042356.D
 Acq On : 17 Apr 2025 13:43
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL041725

Quant Time: Apr 18 02:15:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 02:14:00 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	113992	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.958	114	324528	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.881	117	305357	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	250149	9.969	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.700%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	197623	9.812	ppbv	100
3) Chlorodifluoromethane	1.476	51	191010	9.960	ppbv	99
4) Chloromethane	1.531	50	78080	9.796	ppbv	98
5) Vinyl Chloride	1.580	62	75628	8.717	ppbv	97
6) Bromomethane	1.667	94	35115	9.422	ppbv	84
7) Chloroethane	1.703	64	30158	9.612	ppbv	99
8) Dichlorotetrafluoroethane	1.554	85	172863	9.997	ppbv	98
9) Propene	1.482	41	84636	9.690	ppbv	95
10) Heptane	4.978	43	221840	9.041	ppbv	98
11) Trichlorofluoromethane	1.877	101	187827	9.807	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.140	101	148485	9.482	ppbv	100
13) Ethanol	1.722	45	4171	3.005	ppbv	97
14) Bromoethene	1.780	108	58320	9.880	ppbv	99
15) Acetone	1.835	43	158708	8.505	ppbv	100
16) 1,3-Butadiene	1.609	39	78804	8.829	ppbv	95
17) tert-Butyl alcohol	2.039	59	218954	9.468	ppbv	99
18) 1,1-Dichloroethene	2.033	96	67940	9.287	ppbv	94
19) Isopropyl Alcohol	1.887	45	96365	9.296	ppbv	95
20) Methylene Chloride	2.062	84	59203	8.101	ppbv	91
21) Allyl Chloride	2.094	41	120704	9.368	ppbv	98
22) trans-1,2-Dichloroethene	2.340	96	78070	9.373	ppbv	99
23) Vinyl Acetate	2.463	43	73373	9.714	ppbv	99
24) 1,1-Dichloroethane	2.408	63	155571	9.832	ppbv	100
25) Ethyl Acetate	2.835	43	449014	9.759	ppbv	99
26) Hexane	2.826	57	175752	9.439	ppbv	98
27) Carbon Disulfide	2.149	76	191117	9.587	ppbv	100
28) Methyl tert-Butyl Ether	2.441	73	115190	9.442	ppbv	94
29) Chloroform	2.848	83	260855	9.912	ppbv	98
30) Cyclohexane	3.855	84	148246	9.849	ppbv	99
31) cis-1,2-Dichloroethene	2.719	61	179993	10.167	ppbv	99
32) 1,1,1-Trichloroethane	3.369	97	276599	9.336	ppbv	98
34) 2-Butanone	2.557	43	248969	9.700	ppbv	99
35) Carbon Tetrachloride	3.764	117	271862	9.256	ppbv	98
36) Benzene	3.657	78	350545	10.014	ppbv	99
37) 1,2-Dichloroethane	3.217	62	211790	10.081	ppbv	99
38) Trichloroethene	4.551	130	139872	9.143	ppbv	96
39) 1,2-Dichloropropane	4.315	63	129239	9.908	ppbv	99
40) 1,4-Dioxane	4.583	88	61587	8.591	ppbv #	96
41) Tetrahydrofuran	3.052	42	141861	9.479	ppbv	99
42) Bromodichloromethane	4.489	83	296946	10.156	ppbv	96
43) Methyl Methacrylate	4.878	69	149209	9.458	ppbv	96
44) 2,2,4-Trimethylpentane	4.641	57	606376	10.030	ppbv	99
45) t-1,3-Dichloropropene	6.412	75	160750	9.975	ppbv	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042356.D
 Acq On : 17 Apr 2025 13:43
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL041725

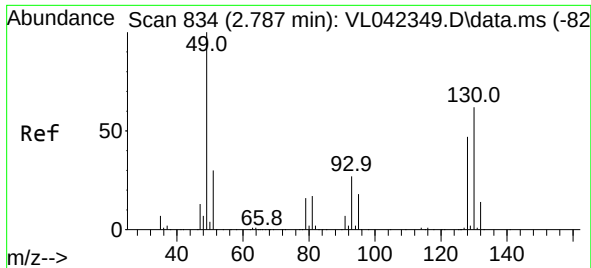
Quant Time: Apr 18 02:15:19 2025
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 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 02:14:00 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.599	75	200144	10.148	ppbv	88
47) 1,1,2-Trichloroethane	6.583	97	135575	10.202	ppbv	95
48) Dibromochloromethane	7.389	129	237206	10.103	ppbv	100
49) Bromoform	9.483	173	205630	10.016	ppbv	99
50) 4-Methyl-2-Pentanone	5.748	43	376145	8.819	ppbv	99
51) 2-Hexanone	7.435	43	310521	8.118	ppbv #	99
52) Tetrachloroethene	8.224	164	119424	8.827	ppbv	94
53) Toluene	6.933	91	419462	9.986	ppbv	99
54) 1,2-Dibromoethane	7.652	107	186231	9.792	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.927	131	182712	9.886	ppbv	97
57) Chlorobenzene	8.920	112	304533	9.589	ppbv	96
58) Ethyl Benzene	9.354	91	583515	9.645	ppbv	99
59) m/p-Xylene	9.551	91	442744	9.084	ppbv #	26
60) o-Xylene	9.966	91	464522	9.465	ppbv	99
61) Styrene	9.872	104	229869	9.813	ppbv	98
62) Isopropylbenzene	10.539	105	685965	9.520	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.962	83	279007	8.773	ppbv	100
64) n-propylbenzene	10.992	120	172654	9.533	ppbv	99
65) tert-Butylbenzene	11.532	119	609500	9.203	ppbv	93
66) Benzyl Chloride	11.613	91	63051	8.664	ppbv	95
67) sec-Butylbenzene	11.769	105	853807	9.268	ppbv	99
69) p-Isopropyltoluene	11.927	119	737861	9.220	ppbv	99
70) n-Butylbenzene	12.283	91	771461	9.255	ppbv	100
71) 2-Chlorotoluene	10.901	91	543794	9.622	ppbv	98
72) 4-Ethyltoluene	11.124	105	563136	9.385	ppbv	100
73) 1,3,5-Trimethylbenzene	11.205	105	486583	9.186	ppbv	99
74) 1,2,4-Trimethylbenzene	11.539	105	531576	8.592	ppbv	97
75) 1,3-Dichlorobenzene	11.610	146	297157	9.240	ppbv	99
76) 1,4-Dichlorobenzene	11.671	146	297697	9.210	ppbv	98
77) 1,2-Dichlorobenzene	11.950	146	289284	9.251	ppbv	100
78) Hexachloro-1,3-Butadiene	13.882	225	276960	8.771	ppbv	100
79) Naphthalene	13.513	128	647349	8.750	ppbv	99
80) Naphthalene,2-methyl-	14.458	142	350259	8.307	ppbv	99
81) 1,2,4-Trichlorobenzene	13.442	180	290260	9.136	ppbv	99

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

Quant Time: Apr 18 02:15:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

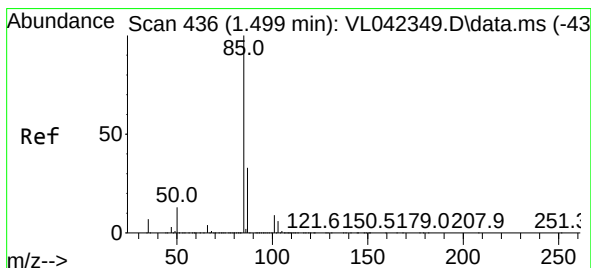
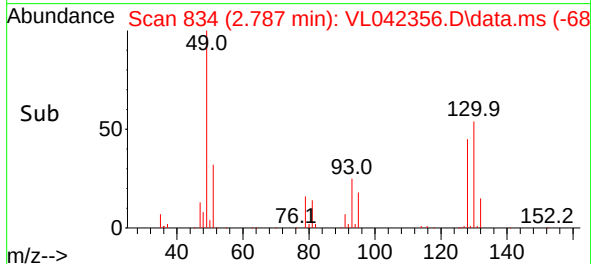
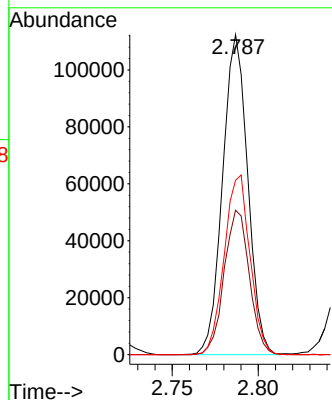
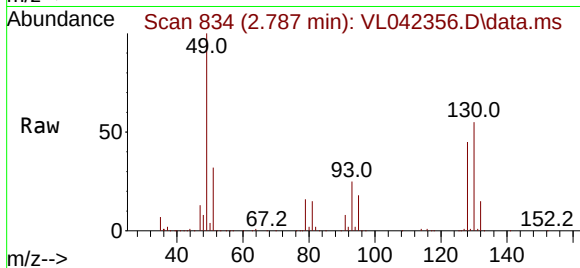




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 834
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

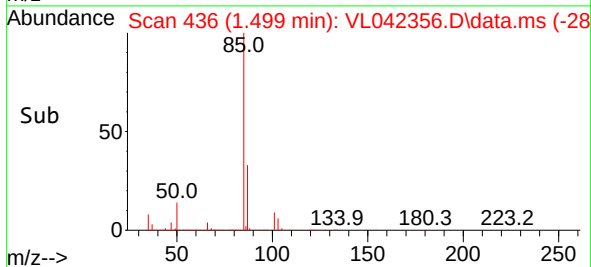
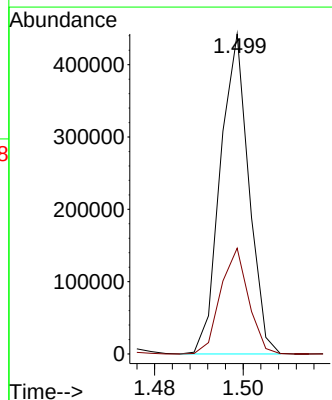
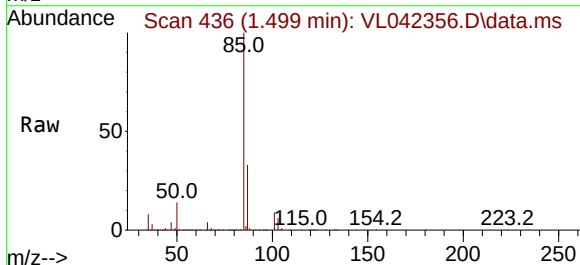
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

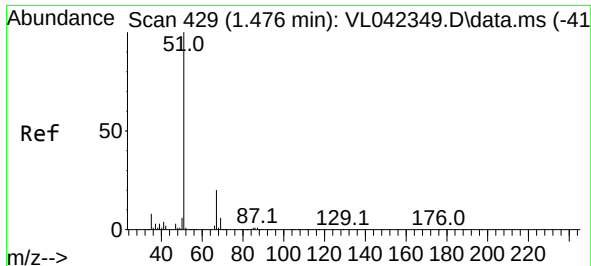
Tgt Ion: 49 Resp: 113992
Ion Ratio Lower Upper
49 100
128 45.5 22.8 68.4
130 57.8 29.3 88.0



#2
Dichlorodifluoromethane
Concen: 9.812 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 85 Resp: 197623
Ion Ratio Lower Upper
85 100
87 33.1 26.6 39.8

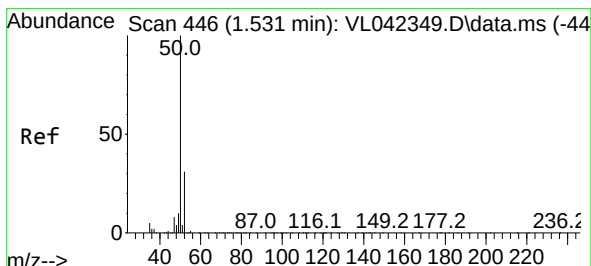
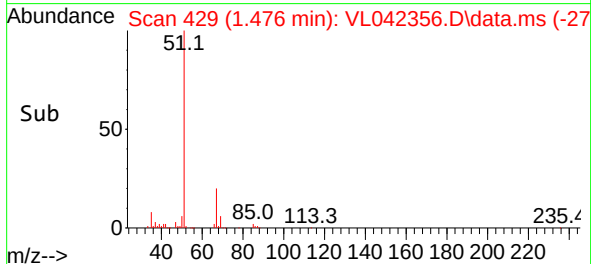
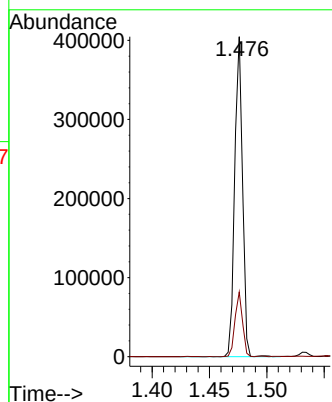
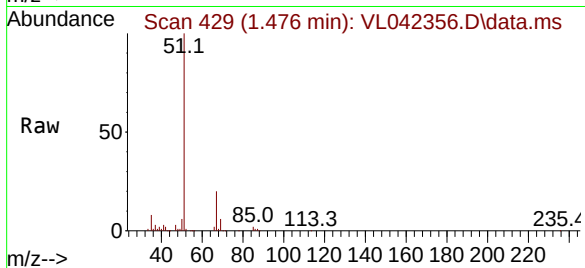




#3
Chlorodifluoromethane
Concen: 9.960 ppbv
RT: 1.476 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

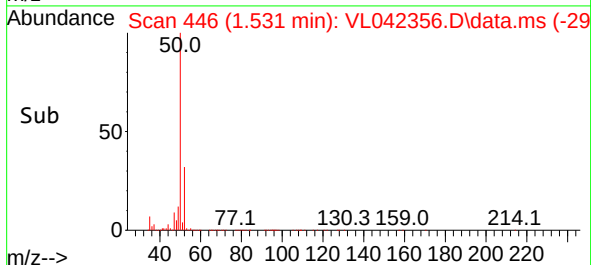
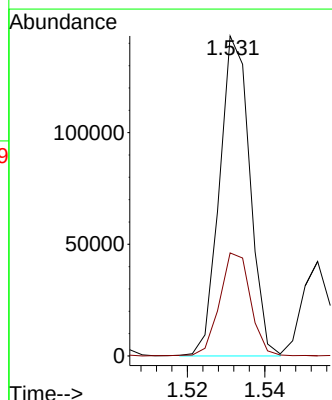
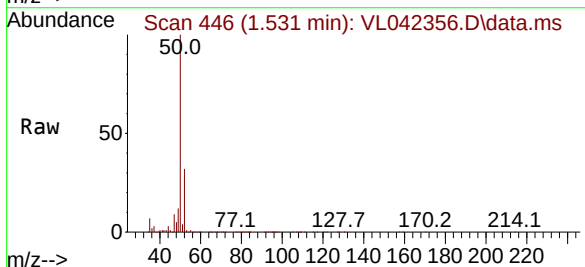
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

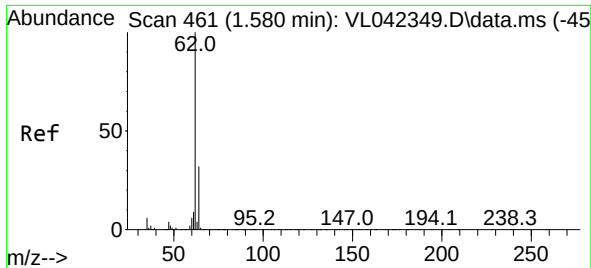
Tgt Ion: 51 Resp: 191010
Ion Ratio Lower Upper
51 100
67 19.6 16.2 24.4



#4
Chloromethane
Concen: 9.796 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 50 Resp: 78080
Ion Ratio Lower Upper
50 100
52 32.0 24.7 37.1

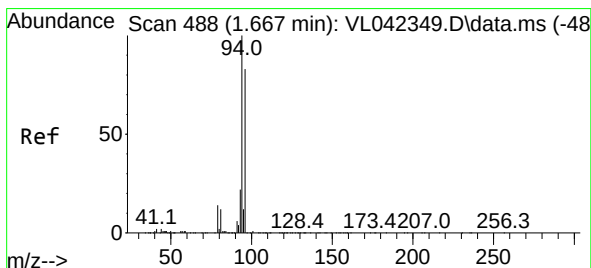
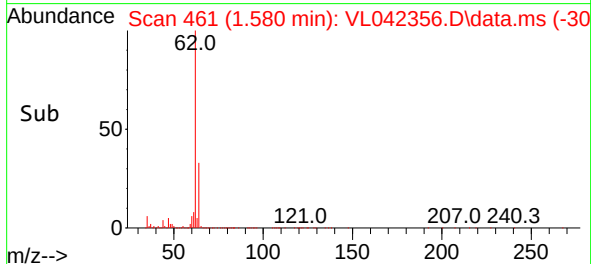
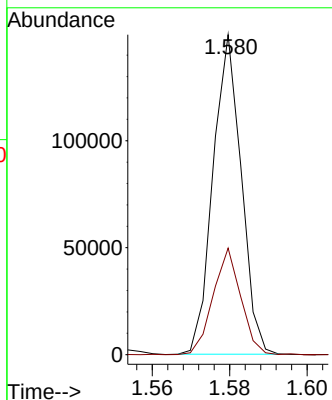
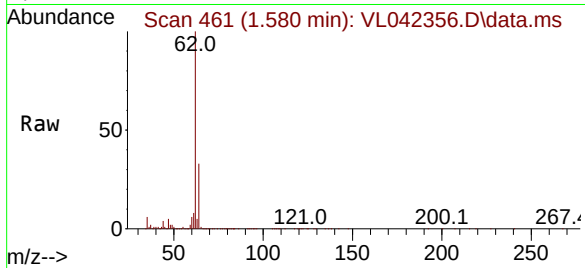




#5
 Vinyl Chloride
 Concen: 8.717 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. -0.000 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

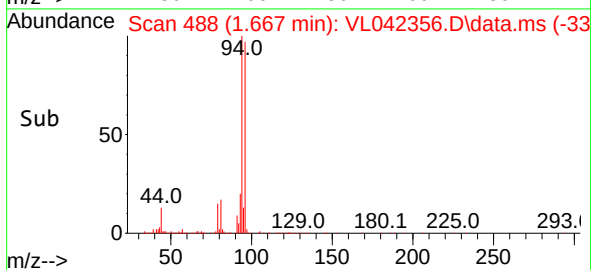
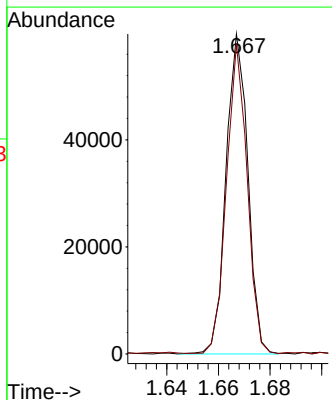
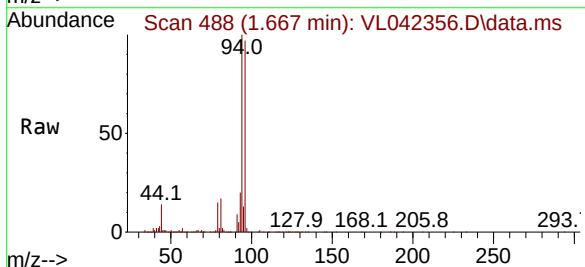
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL041725

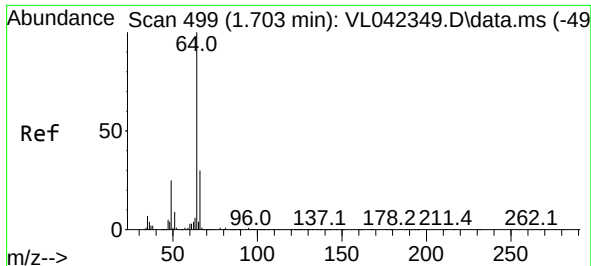
Tgt Ion: 62 Resp: 75628
 Ion Ratio Lower Upper
 62 100
 64 33.3 25.4 38.0



#6
 Bromomethane
 Concen: 9.422 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. -0.000 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

Tgt Ion: 94 Resp: 35115
 Ion Ratio Lower Upper
 94 100
 96 96.8 66.2 99.2

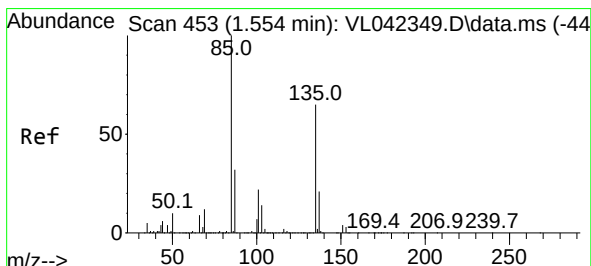
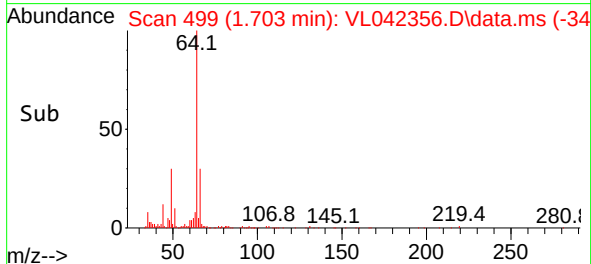
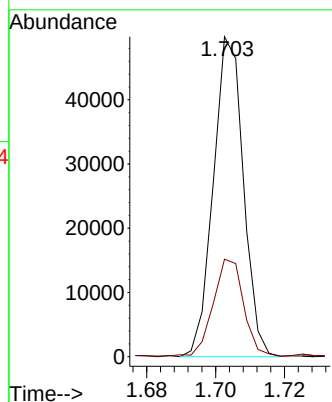
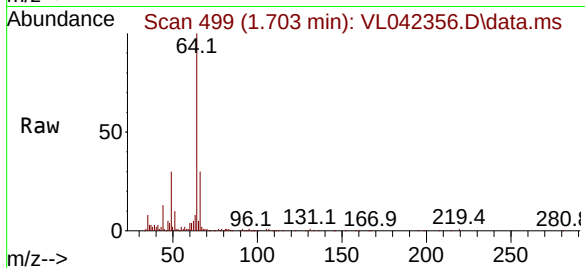




#7
Chloroethane
Concen: 9.612 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

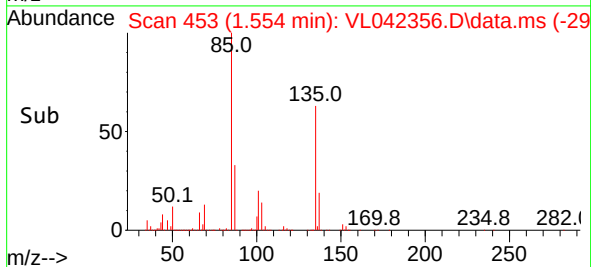
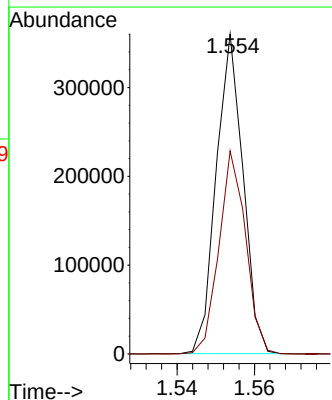
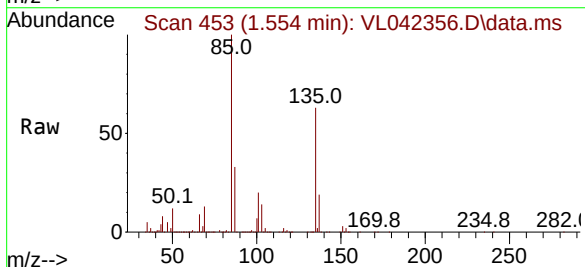
Instrument :
MSVOA_1
ClientSampleId :
ICVVL041725

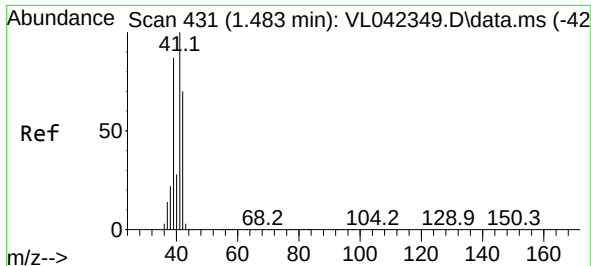
Tgt Ion: 64 Resp: 30158
Ion Ratio Lower Upper
64 100
66 30.4 24.6 37.0



#8
Dichlorotetrafluoroethane
Concen: 9.997 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 85 Resp: 172863
Ion Ratio Lower Upper
85 100
135 63.5 52.2 78.2





#9

Propene

Concen: 9.690 ppbv

RT: 1.482 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

Instrument :

MSVOA_L

ClientSampleId :

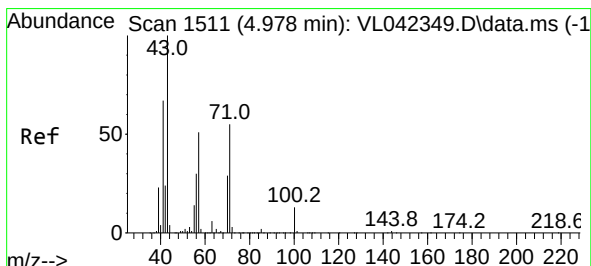
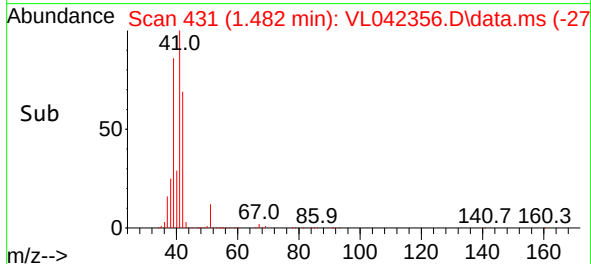
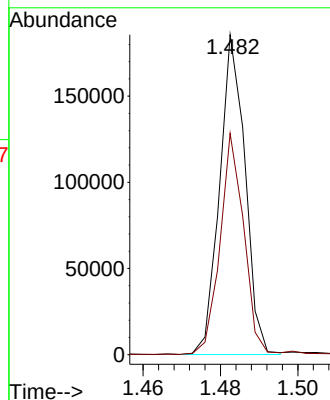
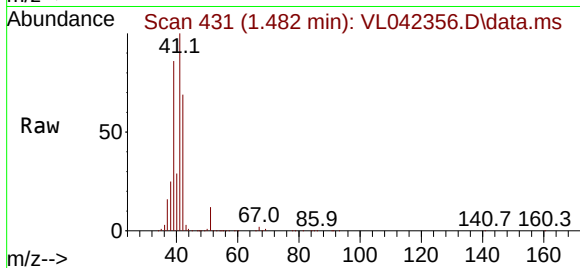
ICVVL041725

Tgt Ion: 41 Resp: 84636

Ion Ratio Lower Upper

41 100

42 65.8 56.2 84.4



#10

Heptane

Concen: 9.041 ppbv

RT: 4.978 min Scan# 1511

Delta R.T. -0.000 min

Lab File: VL042356.D

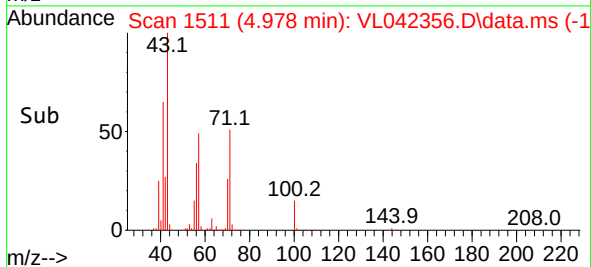
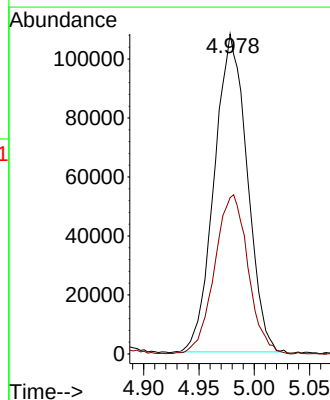
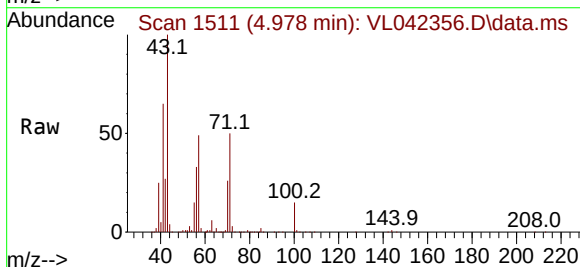
Acq: 17 Apr 2025 13:43

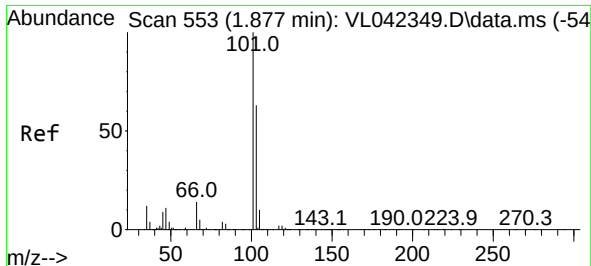
Tgt Ion: 43 Resp: 221840

Ion Ratio Lower Upper

43 100

57 51.4 39.9 59.9

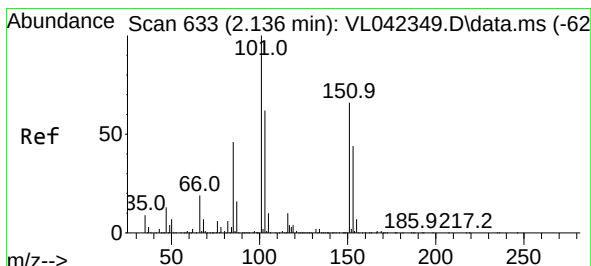
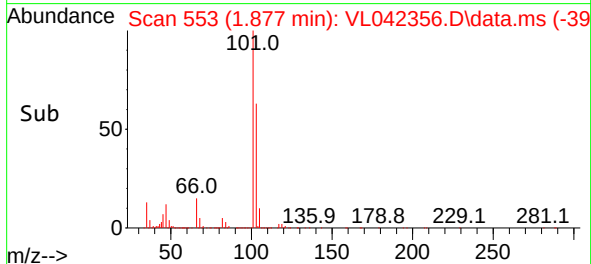
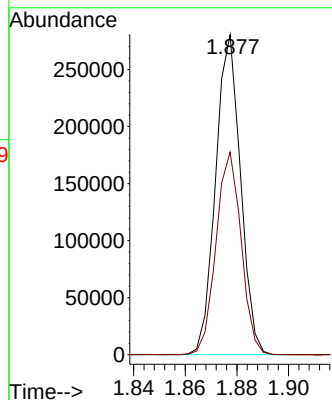
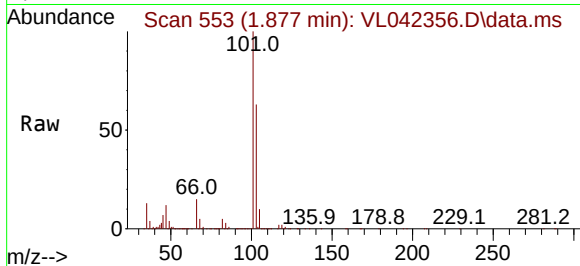




#11
 Trichlorofluoromethane
 Concen: 9.807 ppbv
 RT: 1.877 min Scan# 51
 Delta R.T. -0.000 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

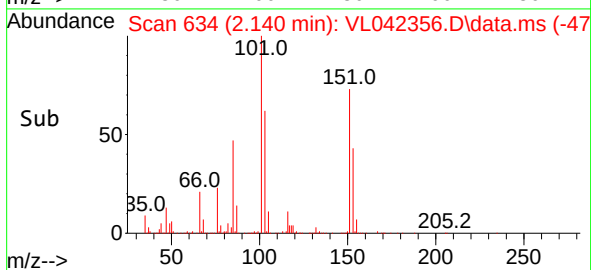
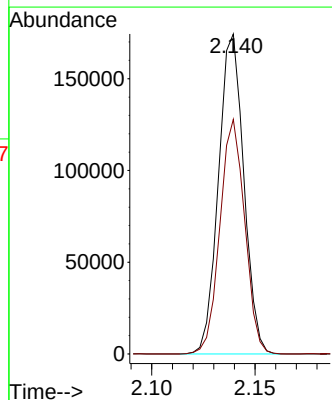
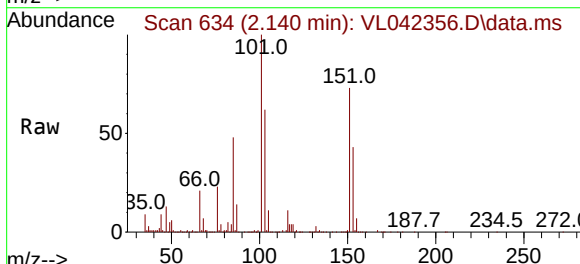
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL041725

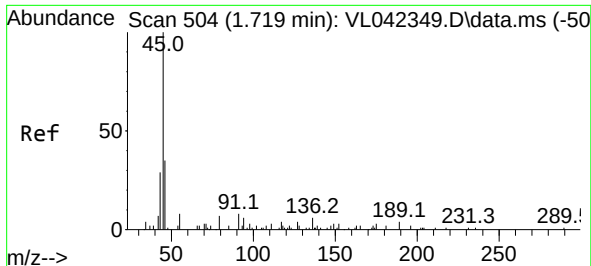
Tgt Ion:101 Resp: 187827
 Ion Ratio Lower Upper
 101 100
 103 63.3 50.1 75.1



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.482 ppbv
 RT: 2.140 min Scan# 634
 Delta R.T. 0.003 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

Tgt Ion:101 Resp: 148485
 Ion Ratio Lower Upper
 101 100
 151 71.7 57.0 85.6

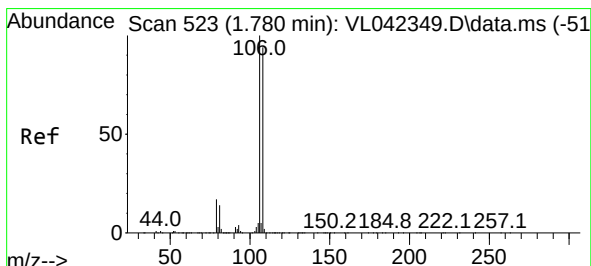
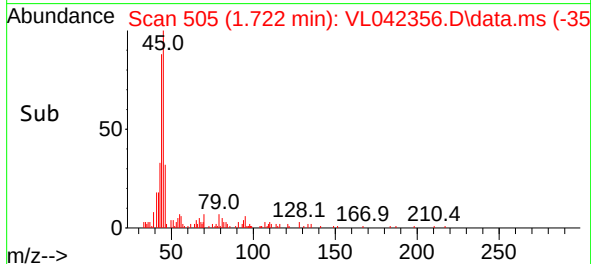
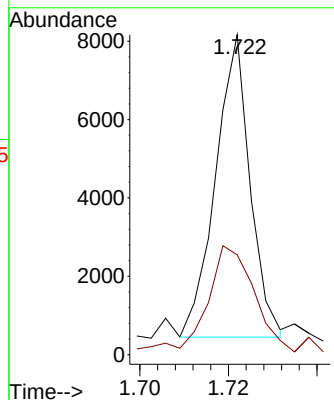
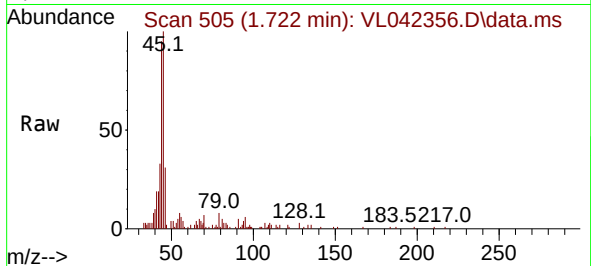




#13
 Ethanol
 Concen: 3.005 ppbv
 RT: 1.722 min Scan# 504
 Delta R.T. 0.003 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

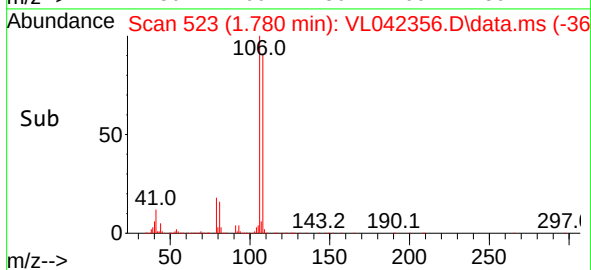
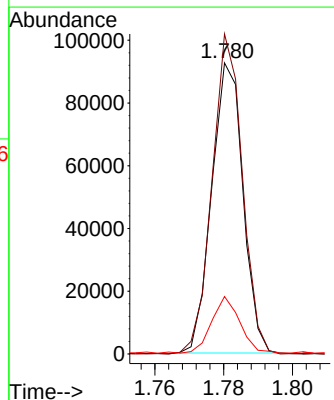
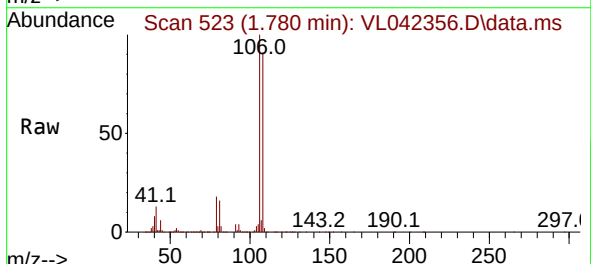
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL041725

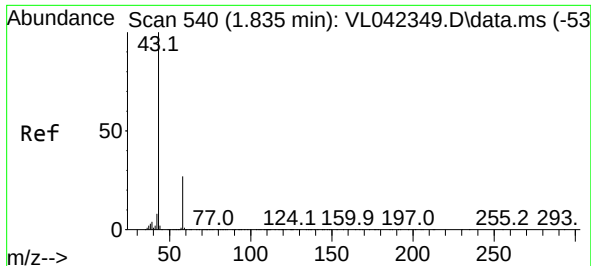
Tgt Ion: 45 Resp: 4171
 Ion Ratio Lower Upper
 45 100
 46 57.0 21.9 87.7



#14
 Bromoethene
 Concen: 9.880 ppbv
 RT: 1.780 min Scan# 523
 Delta R.T. -0.000 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

Tgt Ion: 108 Resp: 58320
 Ion Ratio Lower Upper
 108 100
 106 107.1 85.9 128.9
 79 18.4 13.9 20.9

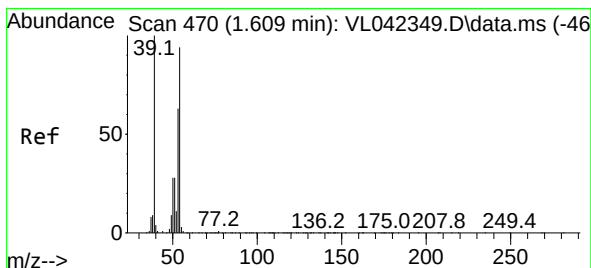
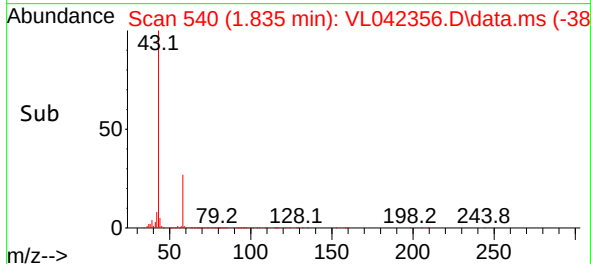
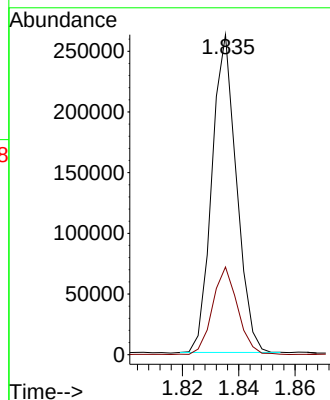
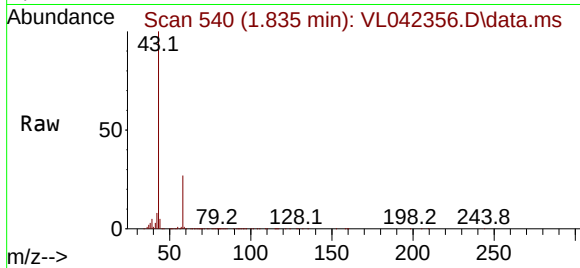




#15
Acetone
Concen: 8.505 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

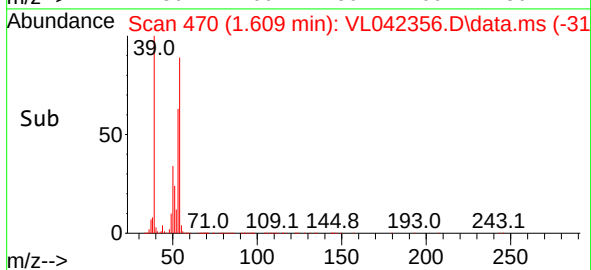
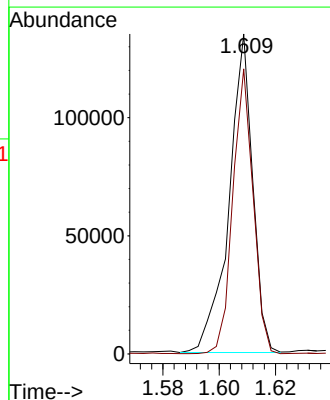
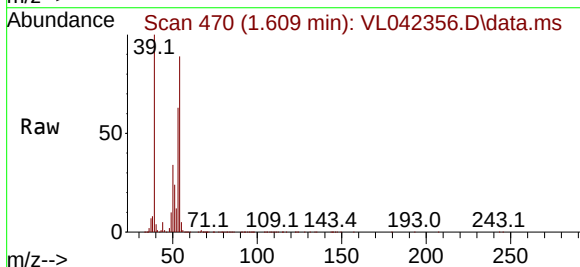
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

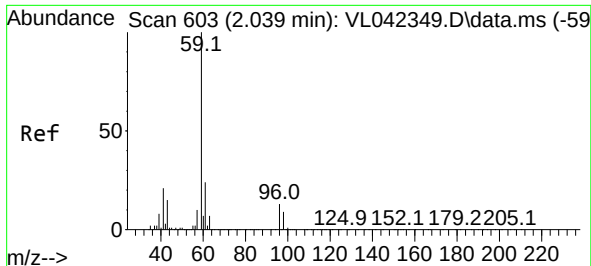
Tgt Ion: 43 Resp: 158708
Ion Ratio Lower Upper
43 100
58 28.0 22.4 33.6



#16
1,3-Butadiene
Concen: 8.829 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 39 Resp: 78804
Ion Ratio Lower Upper
39 100
54 77.1 64.9 97.3





#17

tert-Butyl alcohol

Concen: 9.468 ppbv

RT: 2.039 min Scan# 603

Delta R.T. -0.000 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

Instrument :

MSVOA_L

ClientSampleId :

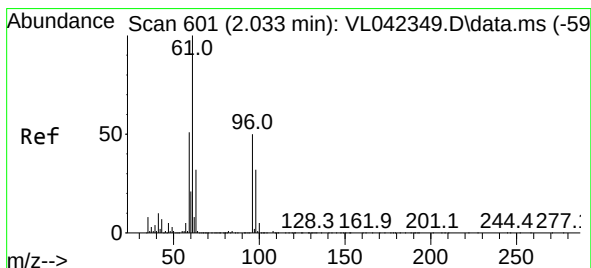
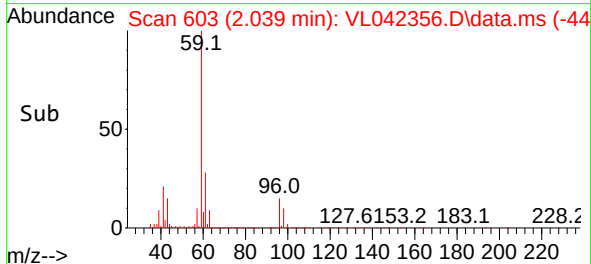
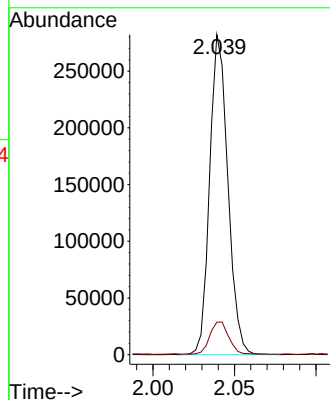
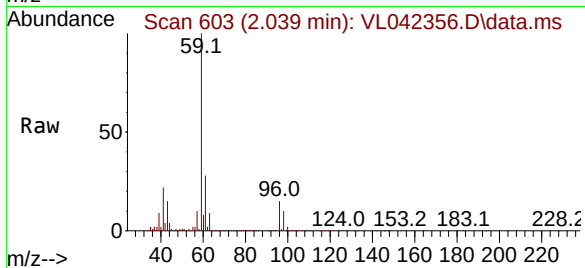
ICVVL041725

Tgt Ion: 59 Resp: 218954

Ion Ratio Lower Upper

59 100

57 10.6 8.7 13.1



#18

1,1-Dichloroethene

Concen: 9.287 ppbv

RT: 2.033 min Scan# 601

Delta R.T. -0.000 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

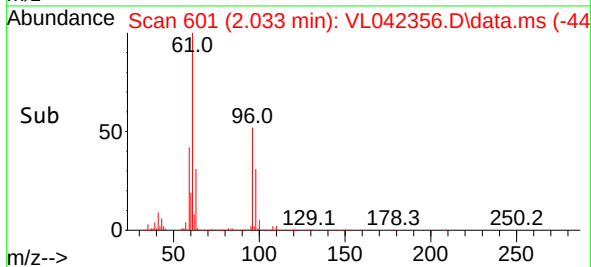
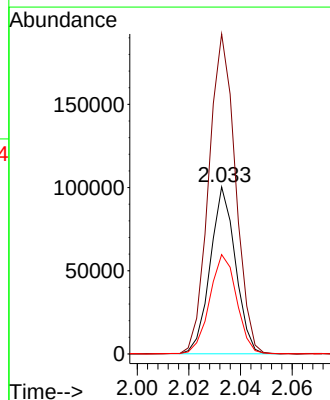
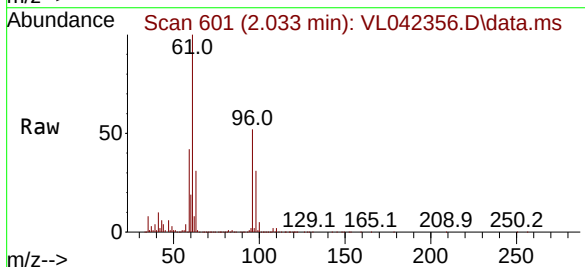
Tgt Ion: 96 Resp: 67940

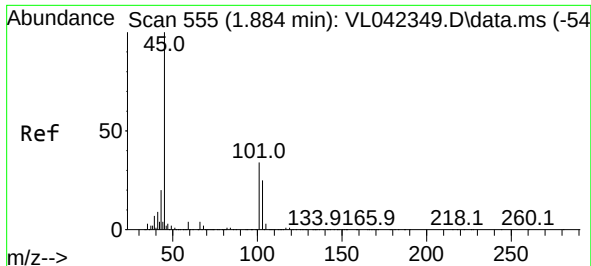
Ion Ratio Lower Upper

96 100

61 191.6 160.2 240.2

98 59.4 51.0 76.4

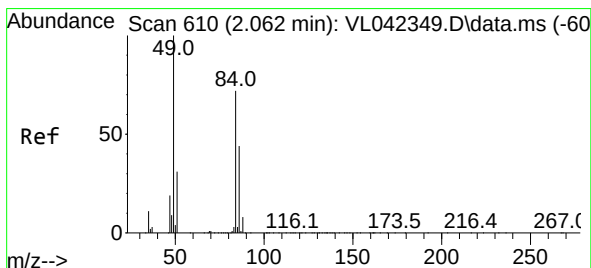
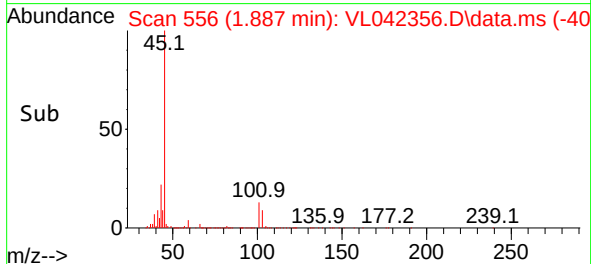
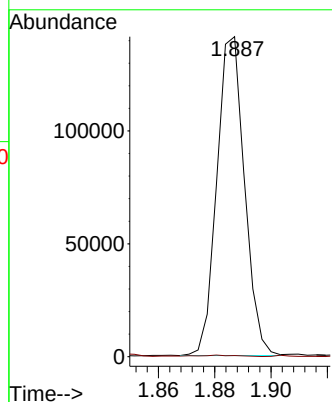
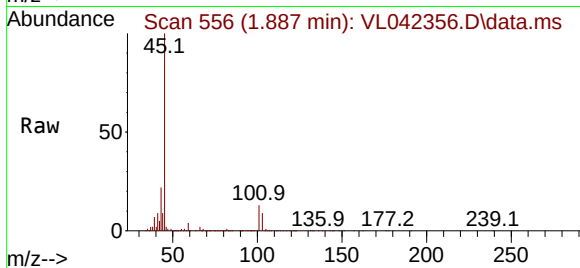




#19
Isopropyl Alcohol
Concen: 9.296 ppbv
RT: 1.887 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

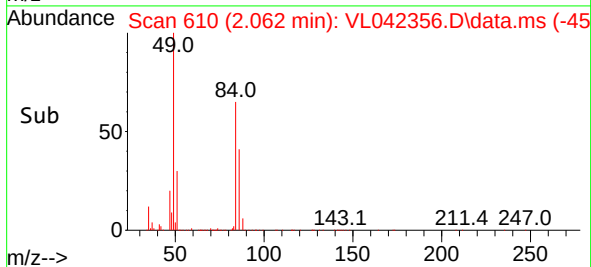
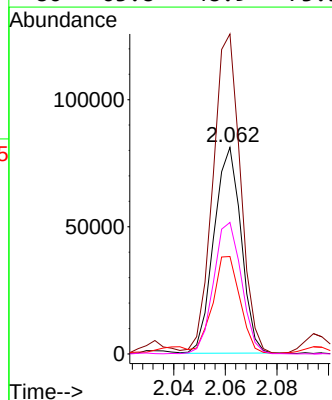
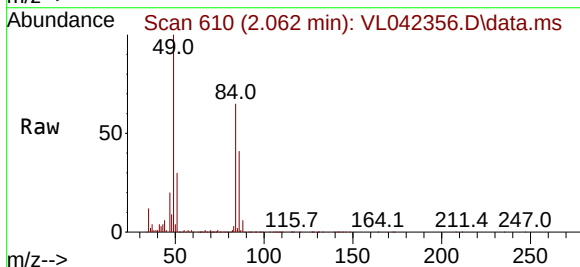
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

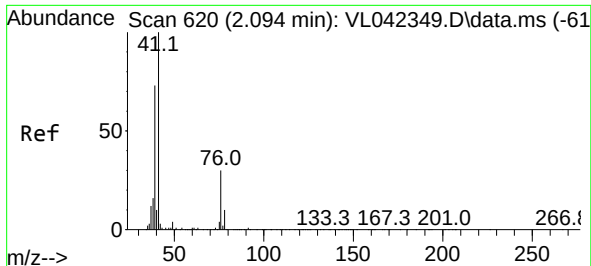
Tgt Ion: 45 Resp: 96365
Ion Ratio Lower Upper
45 100
58 46.1 34.5 51.7



#20
Methylene Chloride
Concen: 8.101 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 84 Resp: 59203
Ion Ratio Lower Upper
84 100
49 155.3 111.6 167.4
51 47.0 35.1 52.7
86 63.8 48.9 73.3

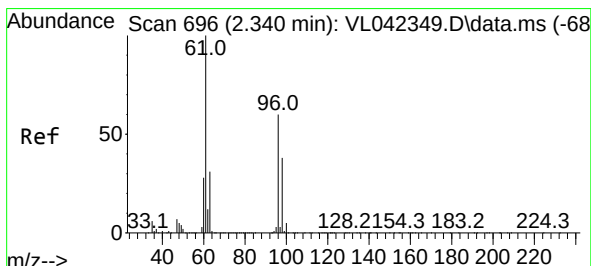
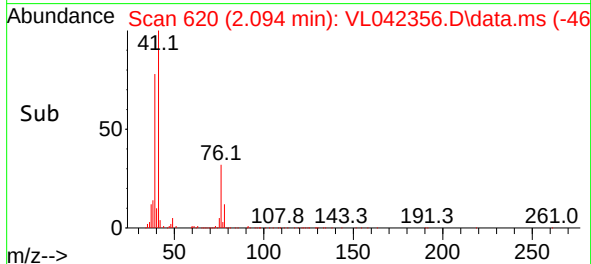
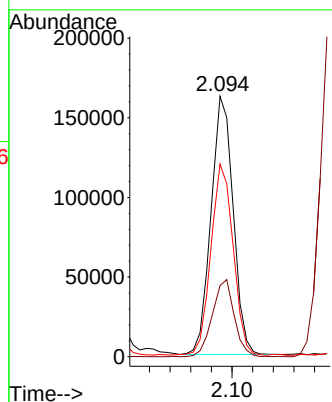
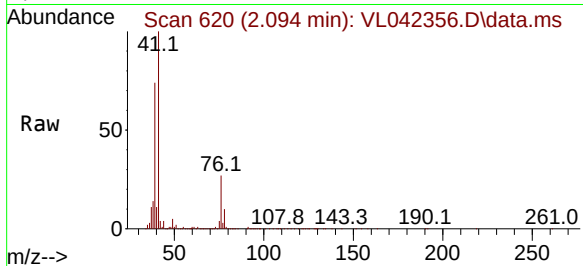




#21
 Allyl Chloride
 Concen: 9.368 ppbv
 RT: 2.094 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

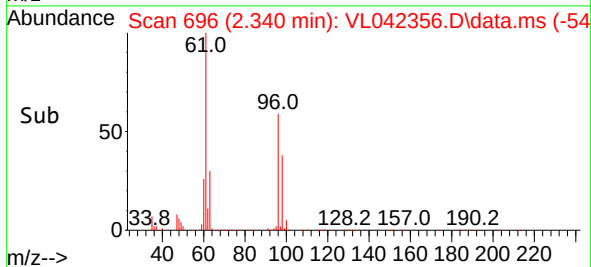
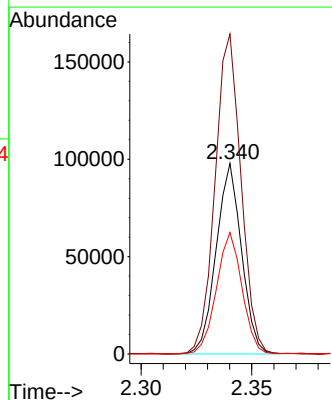
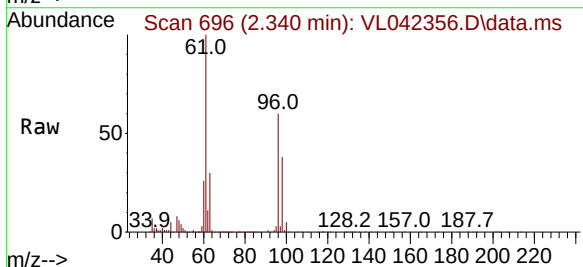
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL041725

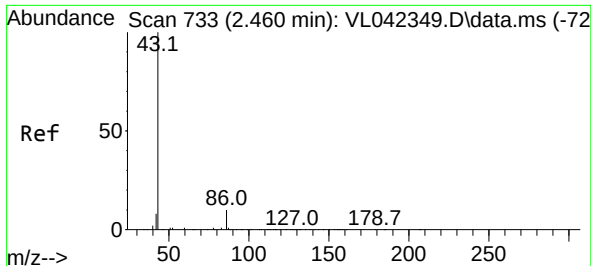
Tgt Ion: 41 Resp: 120704
 Ion Ratio Lower Upper
 41 100
 76 29.5 24.8 37.2
 39 74.5 60.6 90.8



#22
 trans-1,2-Dichloroethene
 Concen: 9.373 ppbv
 RT: 2.340 min Scan# 696
 Delta R.T. -0.000 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

Tgt Ion: 96 Resp: 78070
 Ion Ratio Lower Upper
 96 100
 61 167.7 133.7 200.5
 98 63.5 50.3 75.5



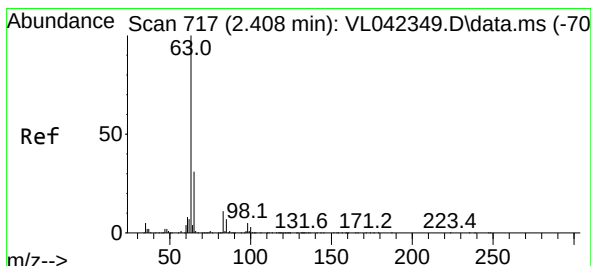
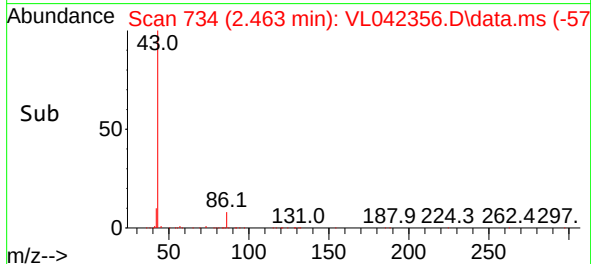
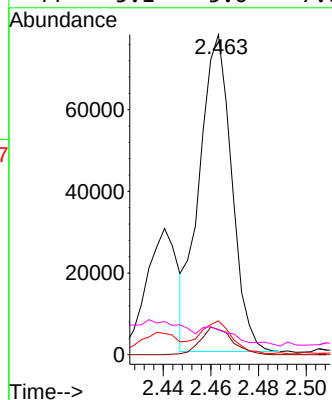
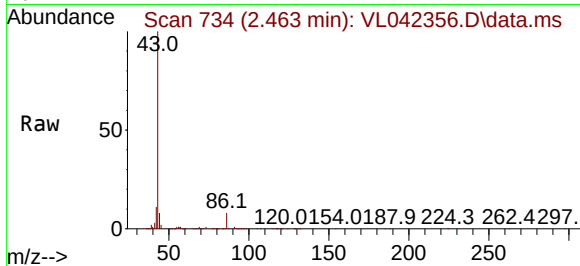


#23
 Vinyl Acetate
 Concen: 9.714 ppbv
 RT: 2.463 min Scan# 714
 Delta R.T. 0.003 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

Instrument :
 MSVOA_1
 ClientSampleId :
 ICVVL041725

Tgt Ion: 43 Resp: 73373

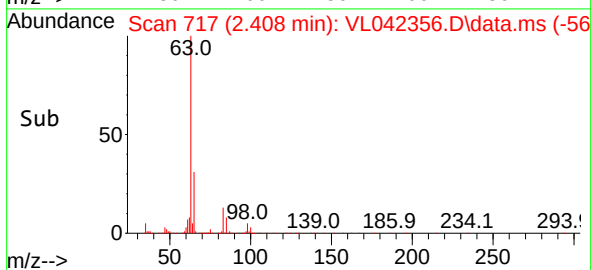
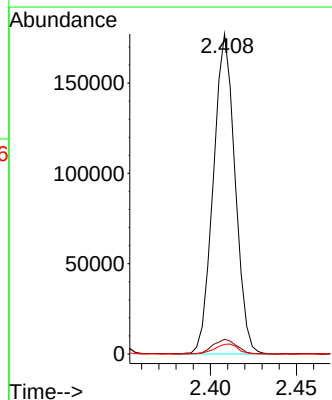
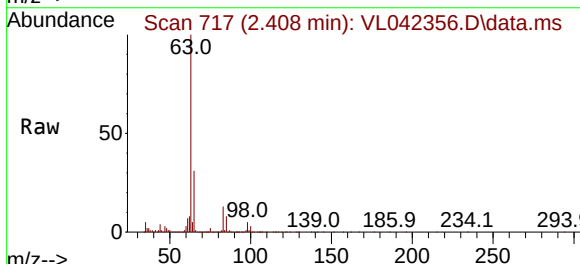
Ion	Ratio	Lower	Upper
43	100		
86	8.0	6.5	9.7
42	10.0	7.8	11.8
44	5.1	5.0	7.6

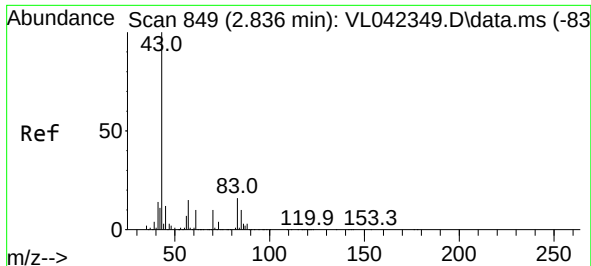


#24
 1,1-Dichloroethane
 Concen: 9.832 ppbv
 RT: 2.408 min Scan# 717
 Delta R.T. -0.000 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

Tgt Ion: 63 Resp: 155571

Ion	Ratio	Lower	Upper
63	100		
98	4.6	2.3	6.8
100	3.0	1.6	4.8

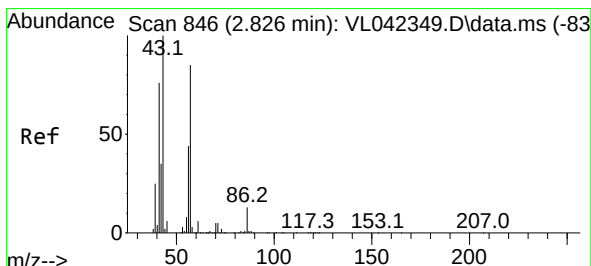
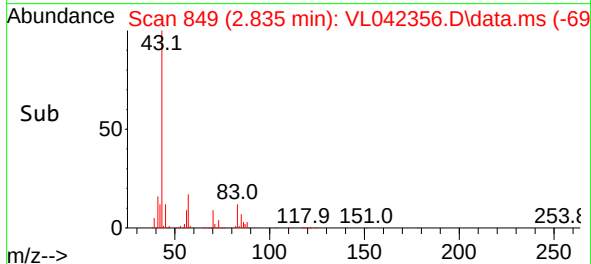
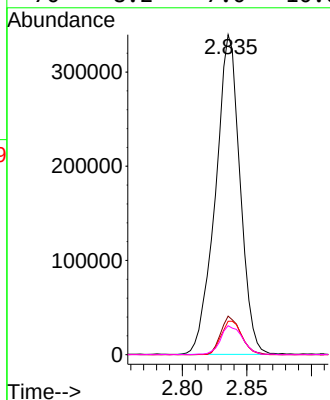
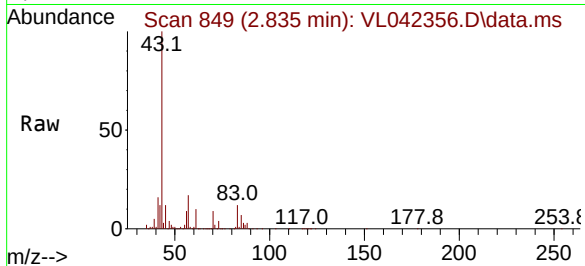




#25
Ethyl Acetate
Concen: 9.759 ppbv
RT: 2.835 min Scan# 849
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

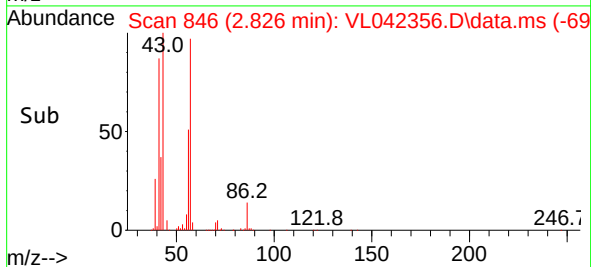
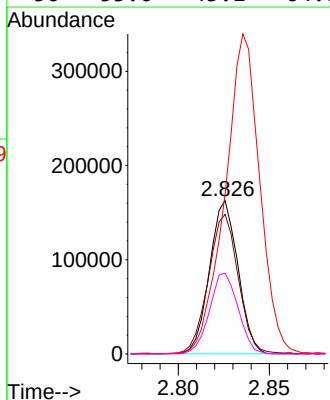
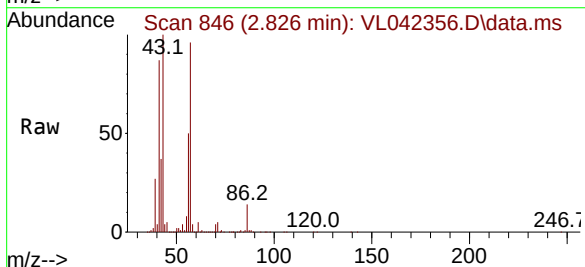
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

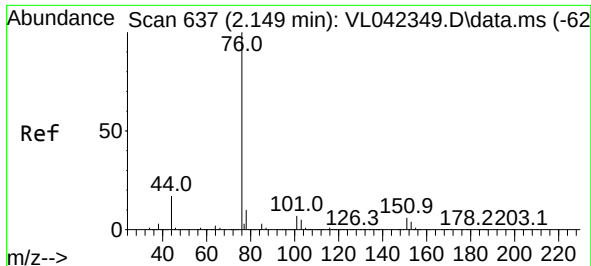
Tgt Ion:	43	Resp:	449014
Ion	Ratio	Lower	Upper
43	100		
45	9.9	8.3	12.5
61	9.0	7.3	10.9
70	8.2	7.0	10.6



#26
Hexane
Concen: 9.439 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:	57	Resp:	175752
Ion	Ratio	Lower	Upper
57	100		
41	96.6	77.9	116.9
43	256.0	208.4	312.6
56	53.6	43.1	64.7

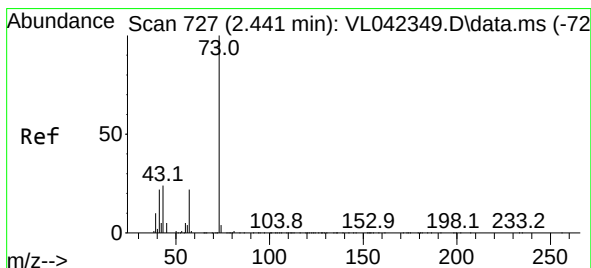
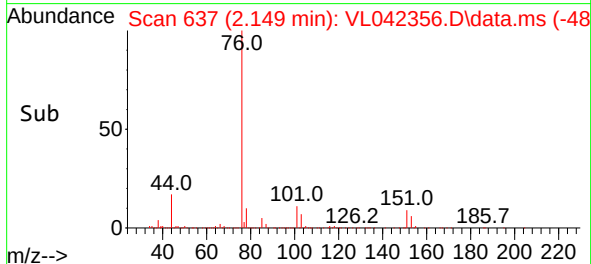
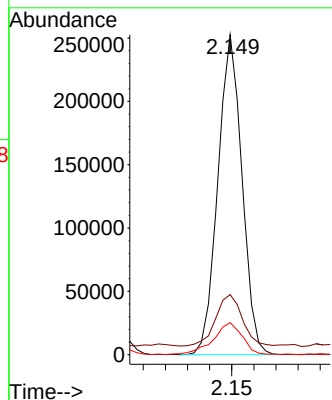
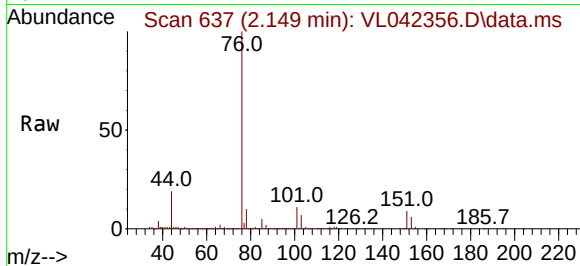




#27
Carbon Disulfide
Concen: 9.587 ppbv
RT: 2.149 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

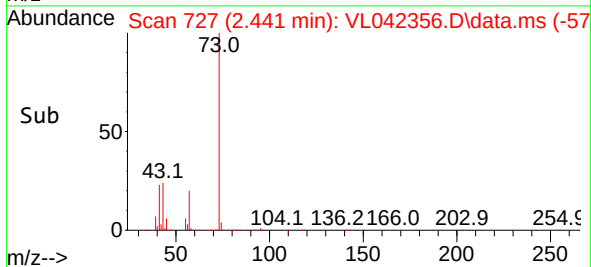
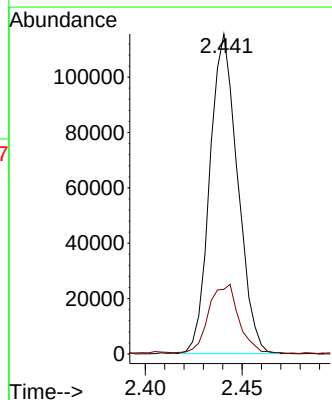
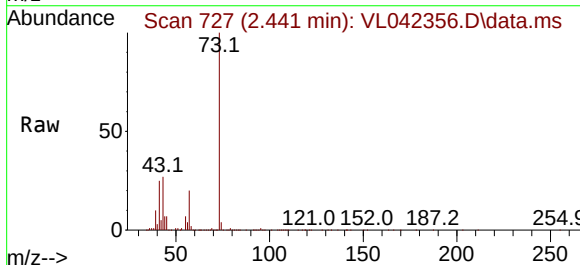
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

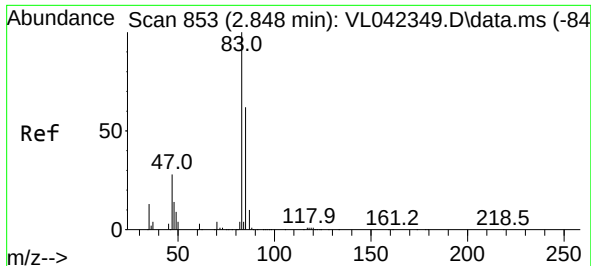
Tgt Ion: 76 Resp: 191117
Ion Ratio Lower Upper
76 100
44 19.3 15.5 23.3
78 11.9 9.3 13.9



#28
Methyl tert-Butyl Ether
Concen: 9.442 ppbv
RT: 2.441 min Scan# 727
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 73 Resp: 115190
Ion Ratio Lower Upper
73 100
57 23.4 21.3 31.9





#29

Chloroform

Concen: 9.912 ppbv

RT: 2.848 min Scan# 81

Delta R.T. -0.000 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

Instrument :

MSVOA_L

ClientSampleId :

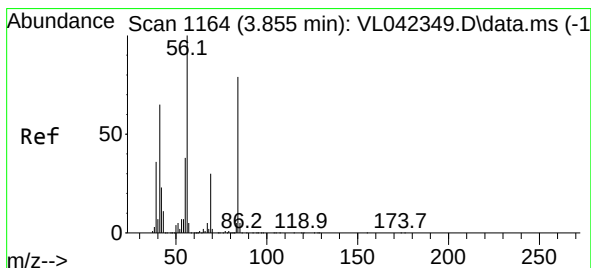
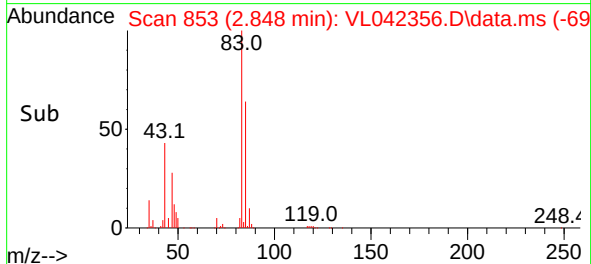
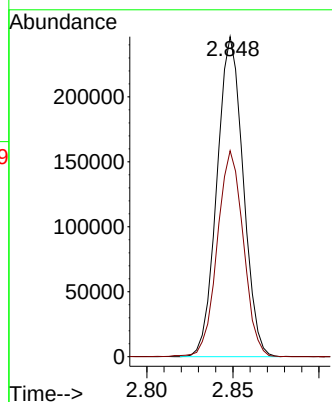
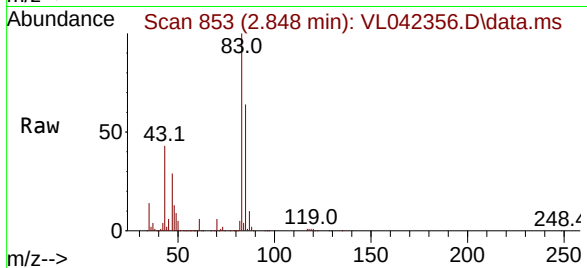
ICVVL041725

Tgt Ion: 83 Resp: 260855

Ion Ratio Lower Upper

83 100

85 64.3 50.0 75.0



#30

Cyclohexane

Concen: 9.849 ppbv

RT: 3.855 min Scan# 1164

Delta R.T. -0.000 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

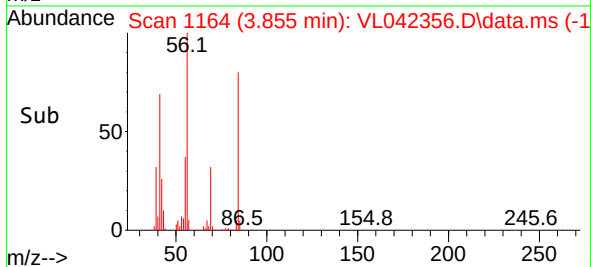
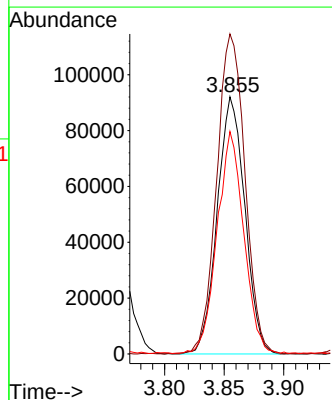
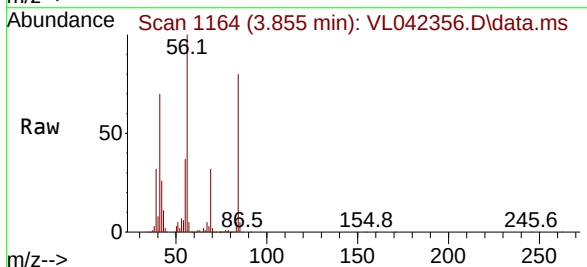
Tgt Ion: 84 Resp: 148246

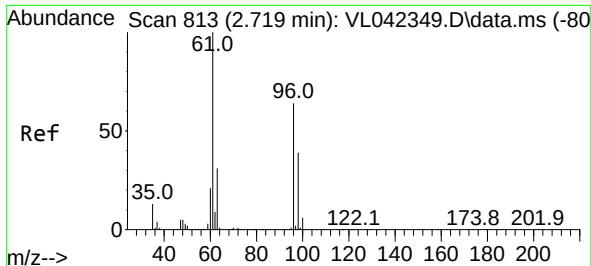
Ion Ratio Lower Upper

84 100

56 127.7 101.0 151.4

41 83.2 67.4 101.0

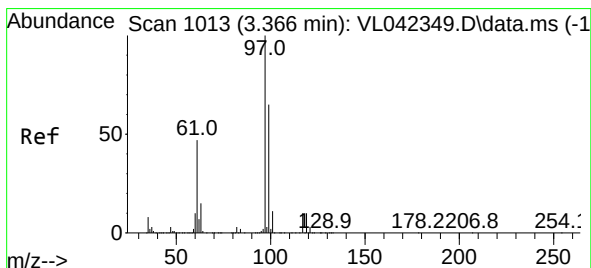
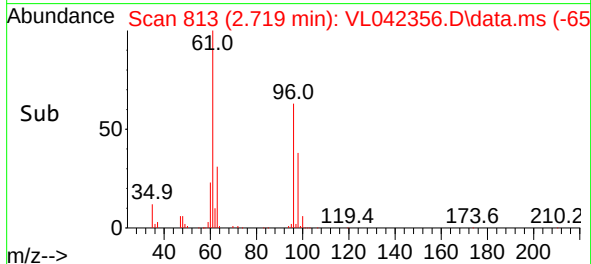
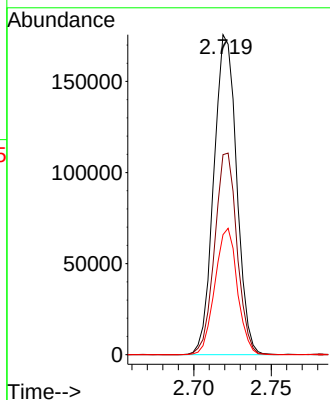
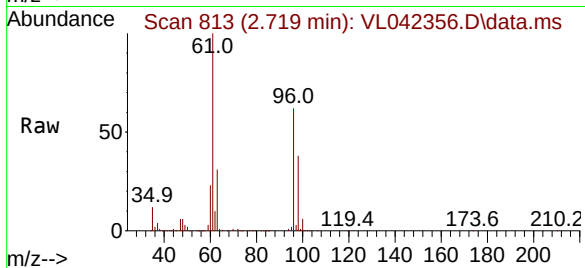




#31
 cis-1,2-Dichloroethene
 Concen: 10.167 ppbv
 RT: 2.719 min Scan# 81
 Delta R.T. -0.000 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

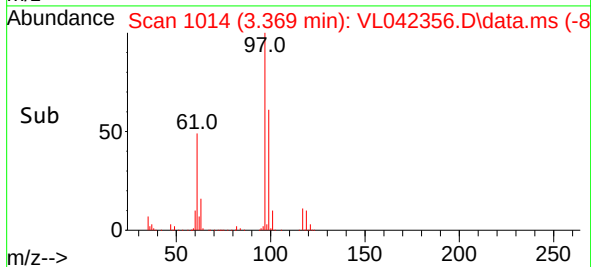
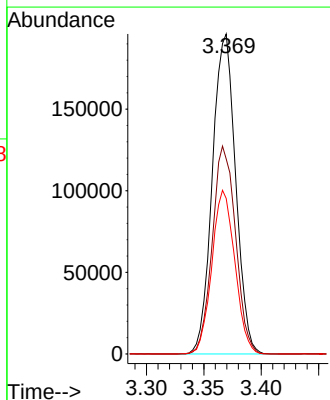
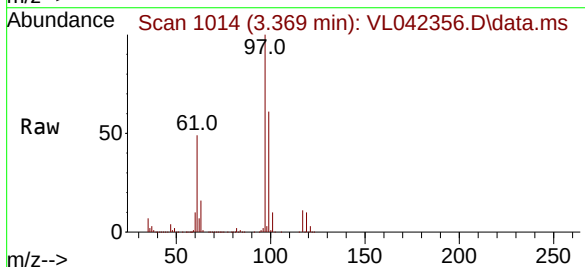
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL041725

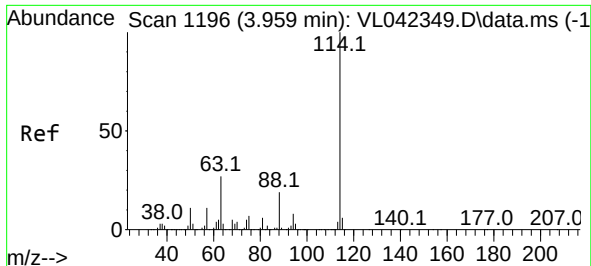
Tgt Ion: 61 Resp: 179993
 Ion Ratio Lower Upper
 61 100
 96 62.5 50.8 76.2
 98 37.5 30.9 46.3



#32
 1,1,1-Trichloroethane
 Concen: 9.336 ppbv
 RT: 3.369 min Scan# 1014
 Delta R.T. 0.003 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

Tgt Ion: 97 Resp: 276599
 Ion Ratio Lower Upper
 97 100
 99 65.0 51.0 76.4
 61 50.7 38.8 58.2

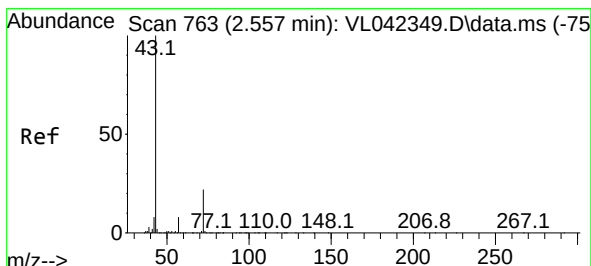
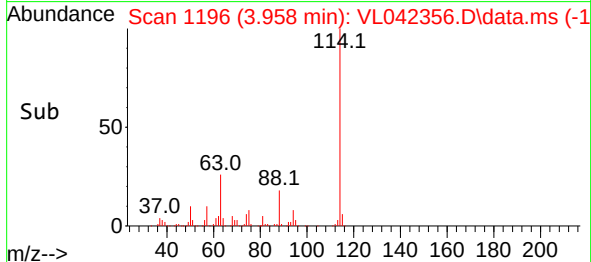
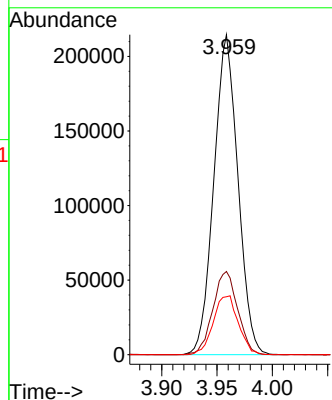
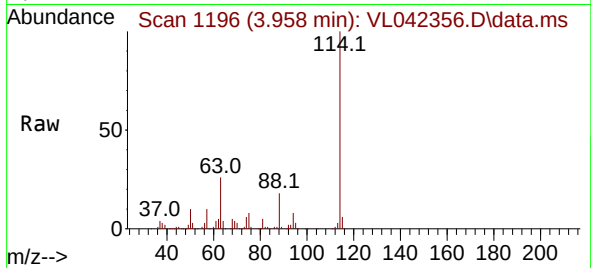




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.958 min Scan# 1196
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

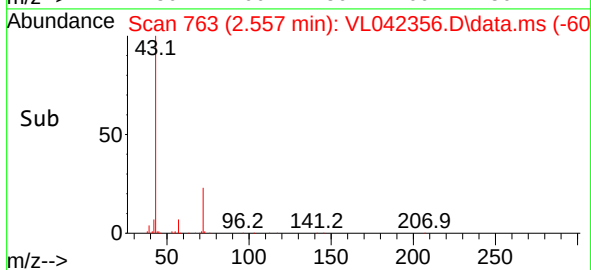
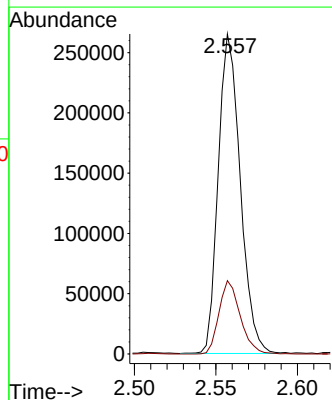
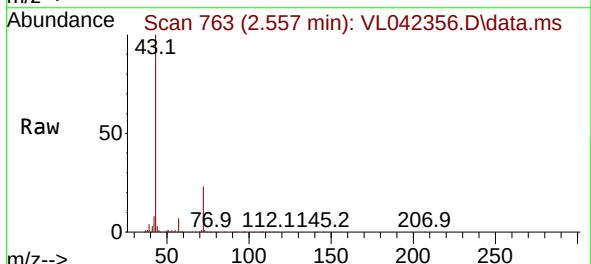
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

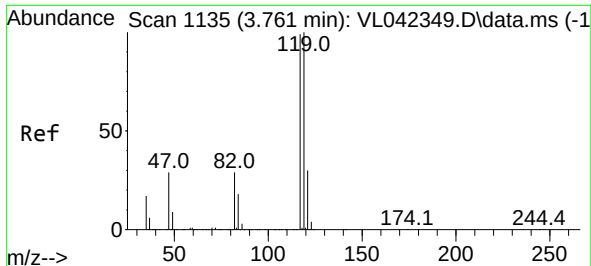
Tgt Ion:114 Resp: 324528
Ion Ratio Lower Upper
114 100
63 26.8 21.8 32.6
88 19.2 15.5 23.3



#34
2-Butanone
Concen: 9.700 ppbv
RT: 2.557 min Scan# 763
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 43 Resp: 248969
Ion Ratio Lower Upper
43 100
72 22.1 18.2 27.2

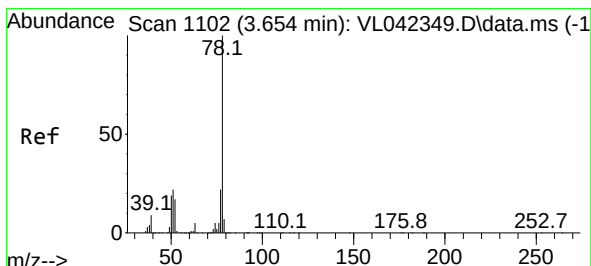
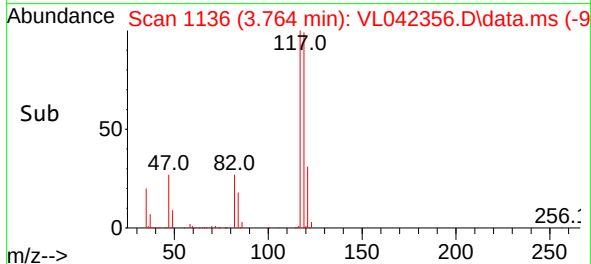
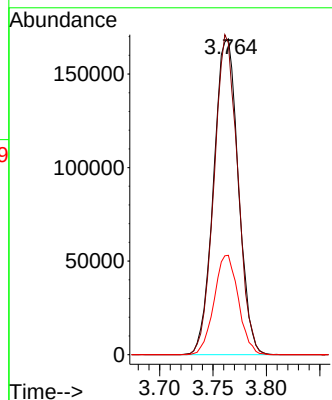
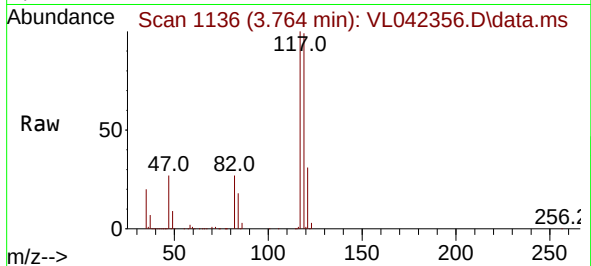




#35
Carbon Tetrachloride
Concen: 9.256 ppbv
RT: 3.764 min Scan# 1135
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

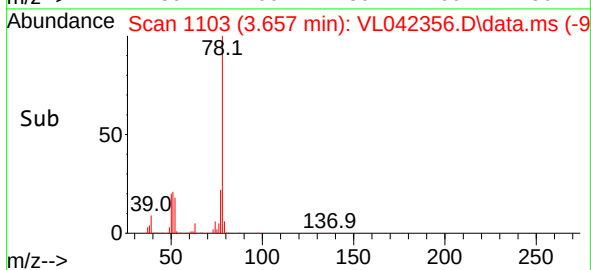
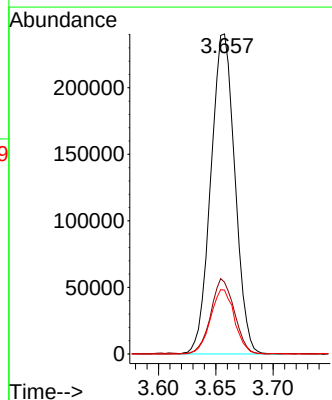
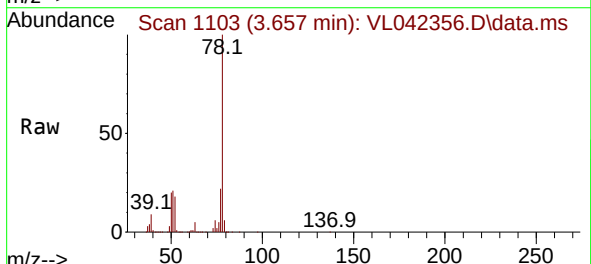
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

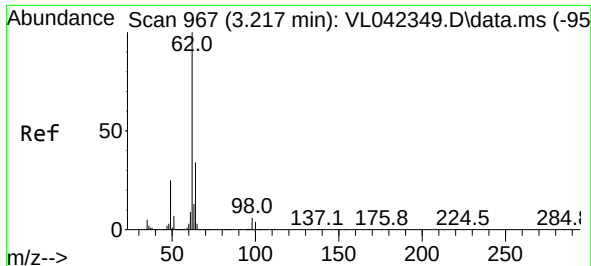
Tgt Ion:117 Resp: 271862
Ion Ratio Lower Upper
117 100
119 98.7 80.5 120.7
121 31.5 24.2 36.2



#36
Benzene
Concen: 10.014 ppbv
RT: 3.657 min Scan# 1103
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 78 Resp: 350545
Ion Ratio Lower Upper
78 100
77 22.3 17.4 26.0
50 19.9 15.5 23.3





#37

1,2-Dichloroethane

Concen: 10.081 ppbv

RT: 3.217 min Scan# 9

Delta R.T. -0.000 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

Instrument :

MSVOA_L

ClientSampleId :

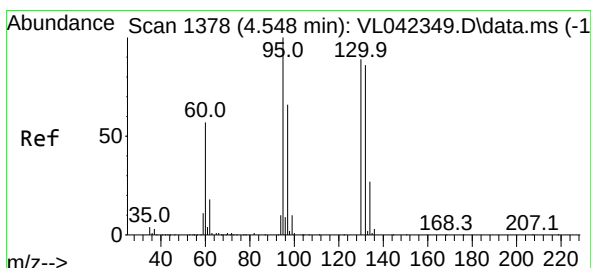
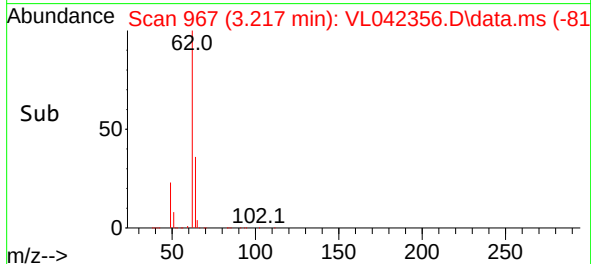
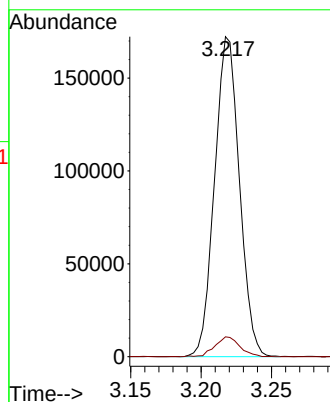
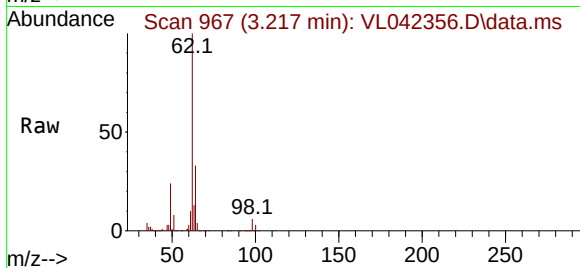
ICVVL041725

Tgt Ion: 62 Resp: 211790

Ion Ratio Lower Upper

62 100

98 6.2 5.1 7.7



#38

Trichloroethene

Concen: 9.143 ppbv

RT: 4.551 min Scan# 1379

Delta R.T. 0.003 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

Tgt Ion:130 Resp: 139872

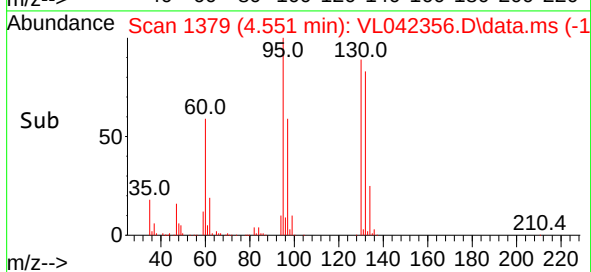
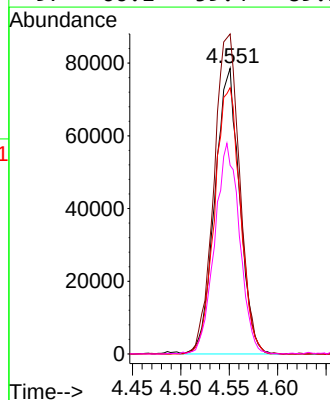
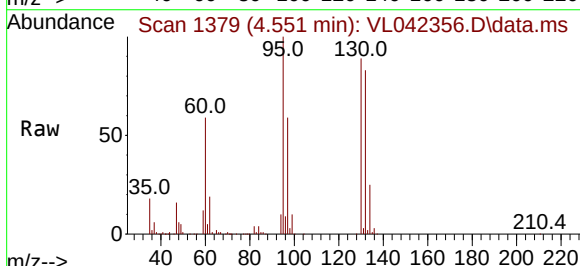
Ion Ratio Lower Upper

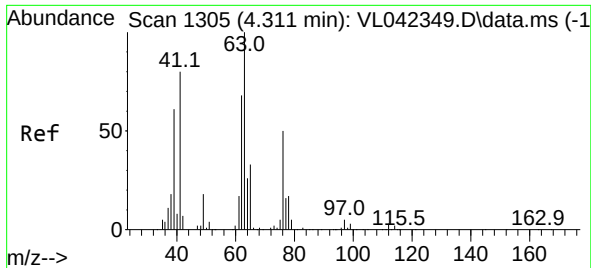
130 100

95 112.0 89.8 134.6

132 93.2 77.7 116.5

97 66.1 59.4 89.2





#39

1,2-Dichloropropane

Concen: 9.908 ppbv

RT: 4.315 min Scan# 1

Delta R.T. 0.003 min

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MSVOA_L

ClientSampleId :

ICVVL041725

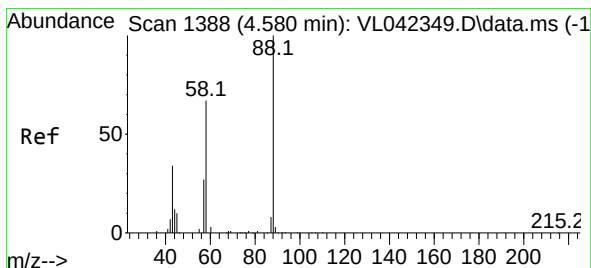
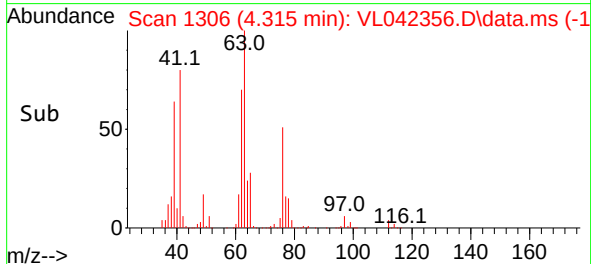
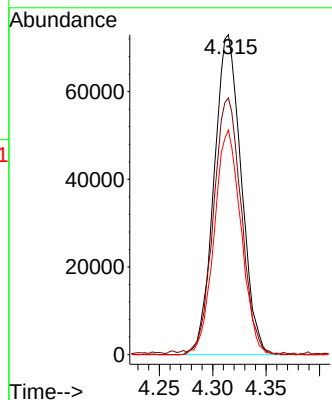
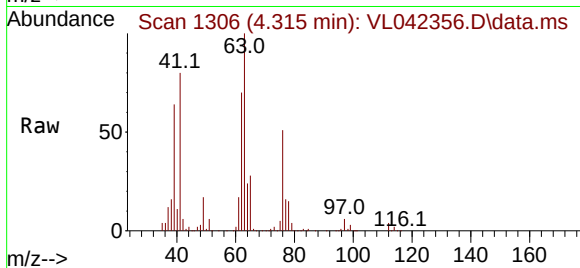
Tgt Ion: 63 Resp: 129239

Ion Ratio Lower Upper

63 100

41 79.9 64.2 96.2

62 70.2 54.3 81.5



#40

1,4-Dioxane

Concen: 8.591 ppbv

RT: 4.583 min Scan# 1389

Delta R.T. 0.003 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

Tgt Ion: 88 Resp: 61587

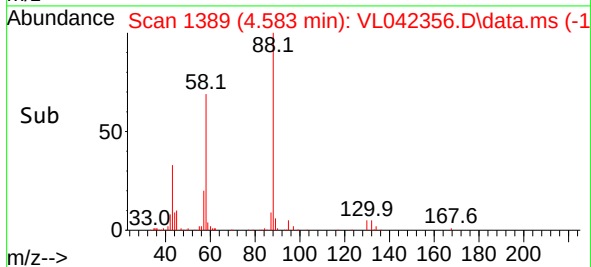
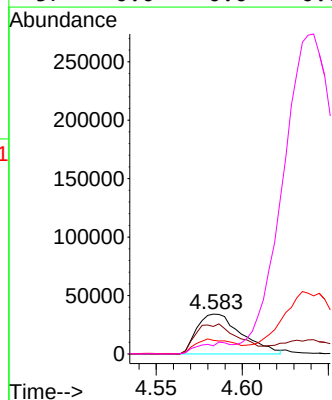
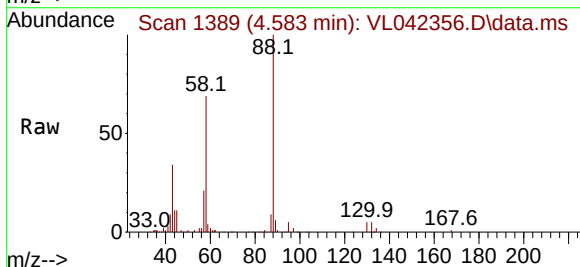
Ion Ratio Lower Upper

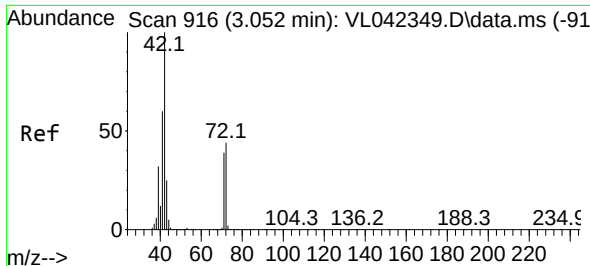
88 100

58 76.1 61.4 92.0

43 35.9 23.2 34.8#

57 0.0 0.0 0.0

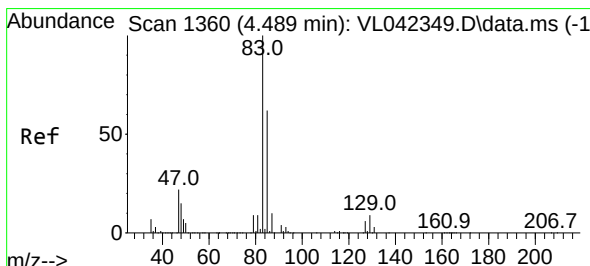
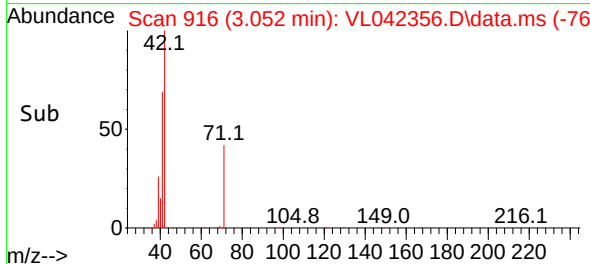
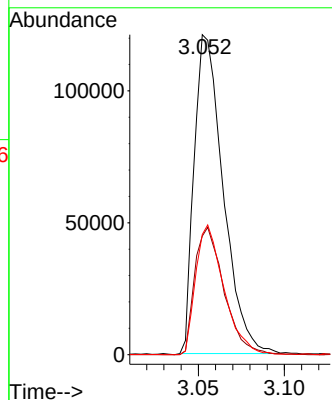
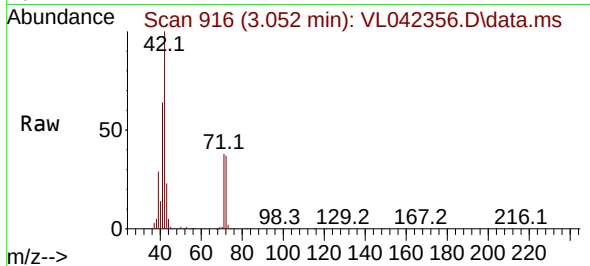




#41
Tetrahydrofuran
Concen: 9.479 ppbv
RT: 3.052 min Scan# 916
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

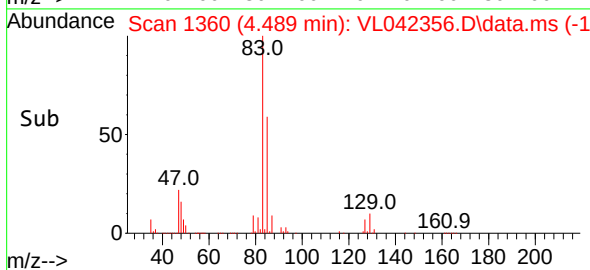
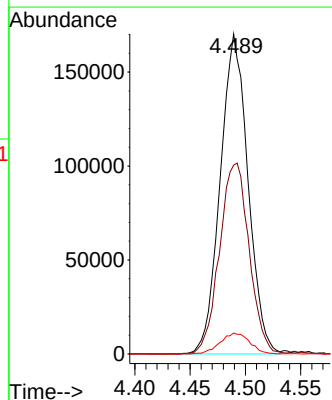
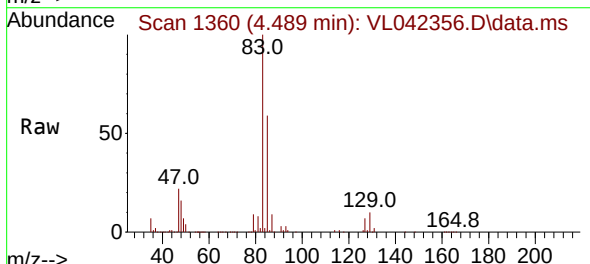
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

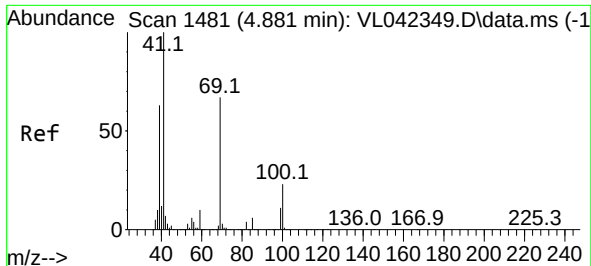
Tgt Ion: 42 Resp: 141861
Ion Ratio Lower Upper
42 100
72 40.2 32.3 48.5
71 39.8 31.4 47.2



#42
Bromodichloromethane
Concen: 10.156 ppbv
RT: 4.489 min Scan# 1360
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 83 Resp: 296946
Ion Ratio Lower Upper
83 100
85 59.0 49.7 74.5
127 6.6 5.1 7.7

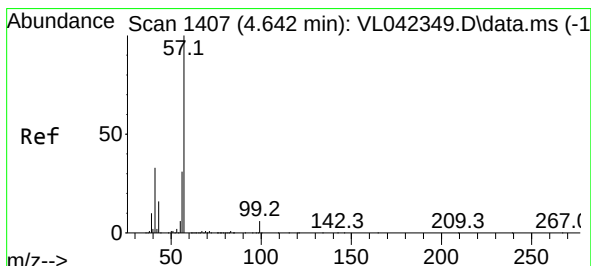
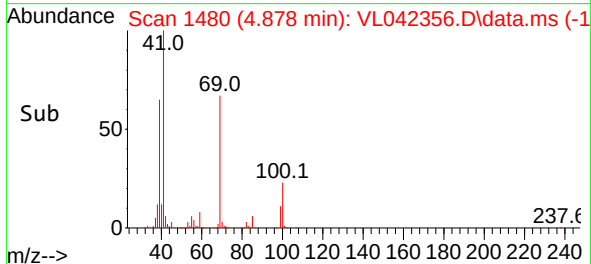
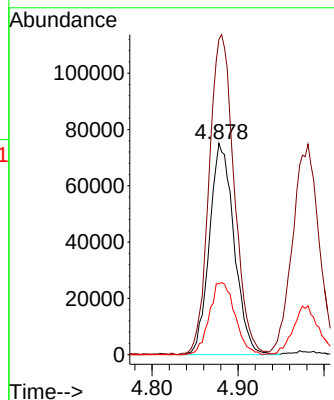
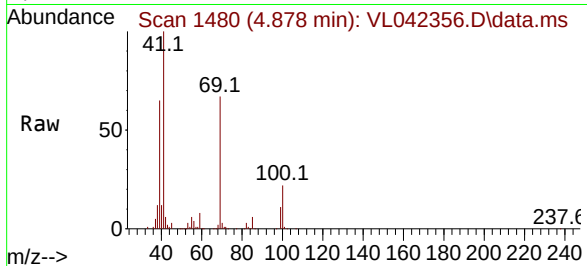




#43
Methyl Methacrylate
Concen: 9.458 ppbv
RT: 4.878 min Scan# 1480
Delta R.T. -0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

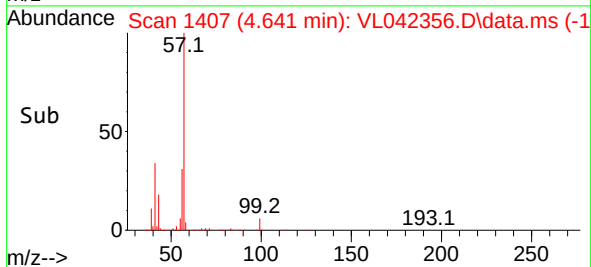
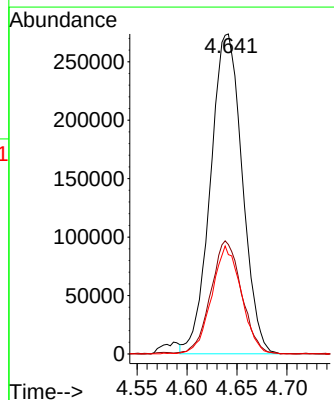
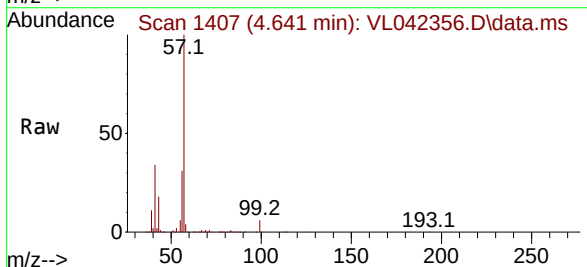
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

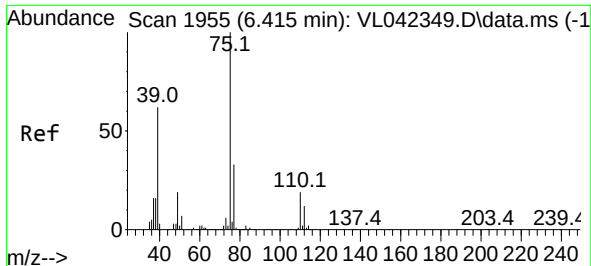
Tgt Ion: 69 Resp: 149209
Ion Ratio Lower Upper
69 100
41 154.1 118.6 177.8
100 35.5 28.2 42.2



#44
2,2,4-Trimethylpentane
Concen: 10.030 ppbv
RT: 4.641 min Scan# 1407
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 57 Resp: 606376
Ion Ratio Lower Upper
57 100
41 34.3 27.2 40.8
56 31.6 25.7 38.5





#45

t-1,3-Dichloropropene

Concen: 9.975 ppbv

RT: 6.412 min Scan# 1955

Delta R.T. -0.003 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

Instrument :

MSVOA_L

ClientSampleId :

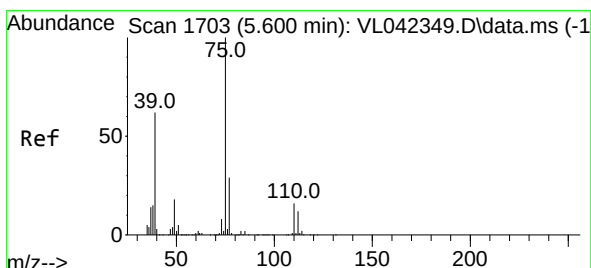
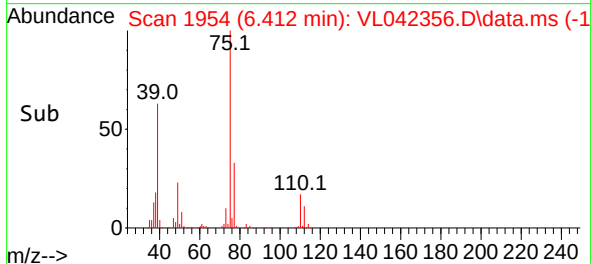
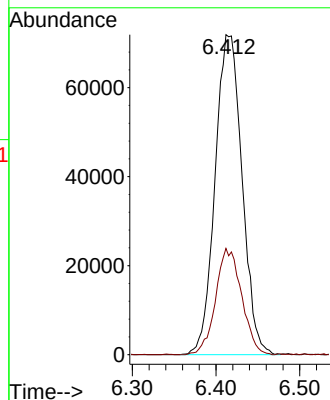
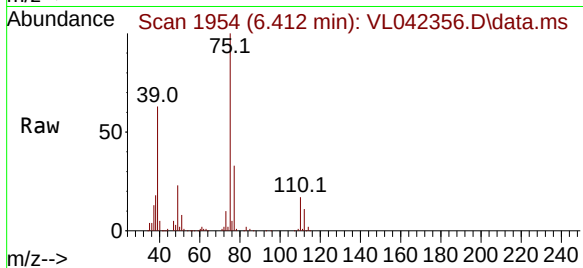
ICVVL041725

Tgt Ion: 75 Resp: 160750

Ion Ratio Lower Upper

75 100

77 33.2 27.0 40.6



#46

cis-1,3-Dichloropropene

Concen: 10.148 ppbv

RT: 5.599 min Scan# 1703

Delta R.T. -0.000 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

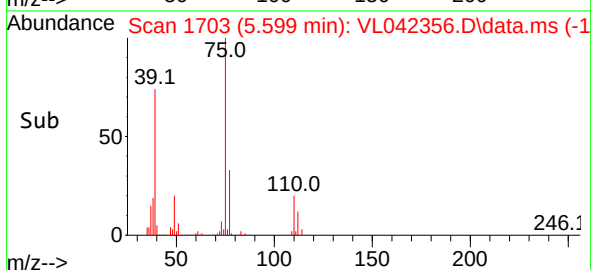
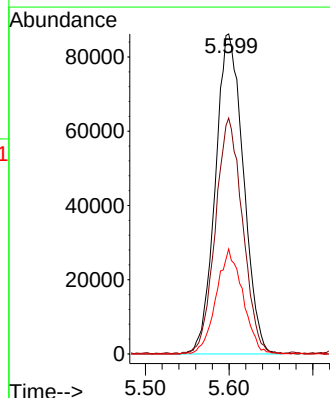
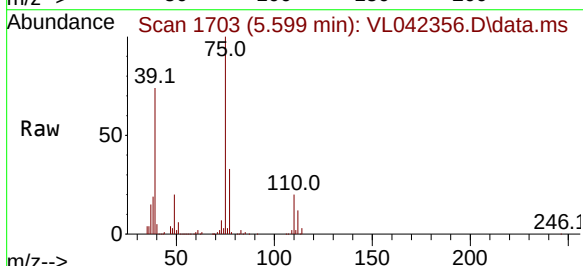
Tgt Ion: 75 Resp: 200144

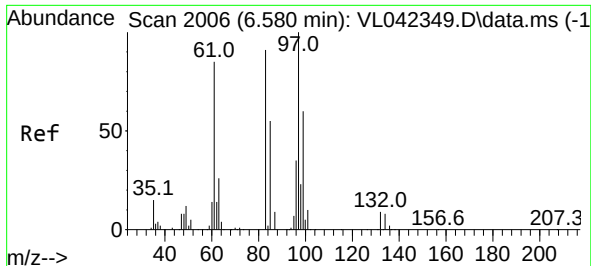
Ion Ratio Lower Upper

75 100

39 73.7 50.0 75.0

77 32.7 23.0 34.6

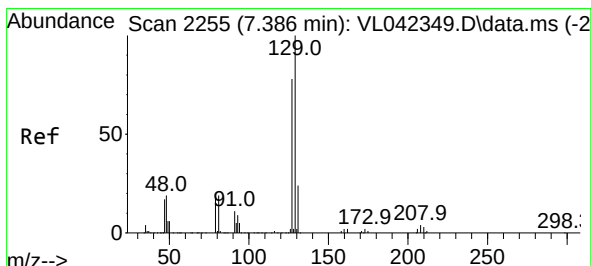
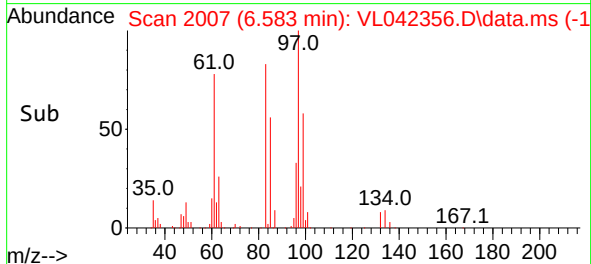
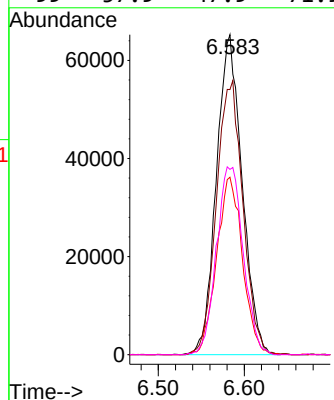
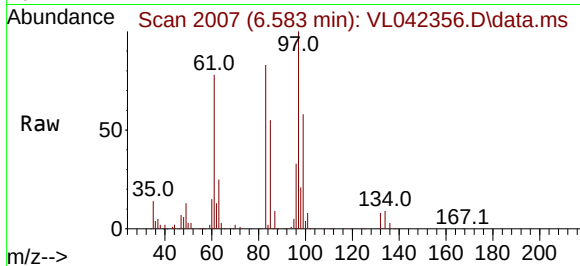




#47
 1,1,2-Trichloroethane
 Concen: 10.202 ppbv
 RT: 6.583 min Scan# 2006
 Delta R.T. 0.003 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

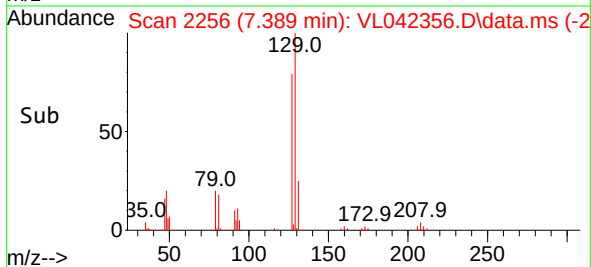
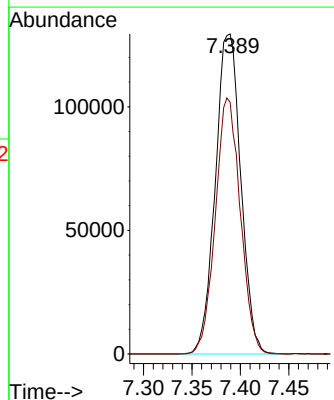
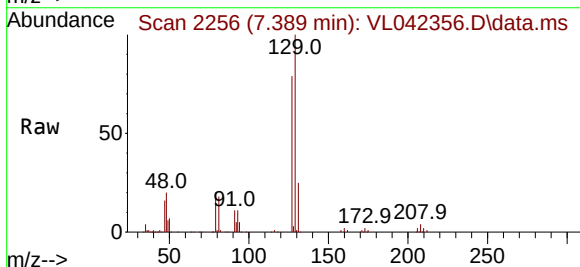
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL041725

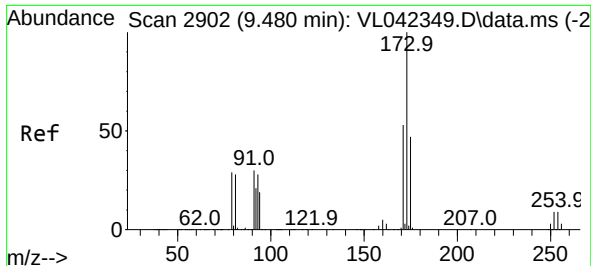
Tgt Ion:	97	Resp:	135575
Ion	Ratio	Lower	Upper
97	100		
83	82.8	72.8	109.2
85	55.5	44.2	66.4
99	57.9	47.9	71.9



#48
 Dibromochloromethane
 Concen: 10.103 ppbv
 RT: 7.389 min Scan# 2256
 Delta R.T. 0.003 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

Tgt Ion:	129	Resp:	237206
Ion	Ratio	Lower	Upper
129	100		
127	78.4	39.1	117.3

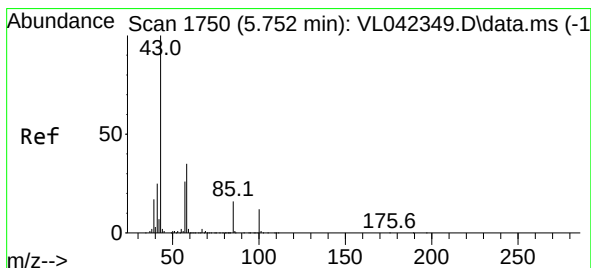
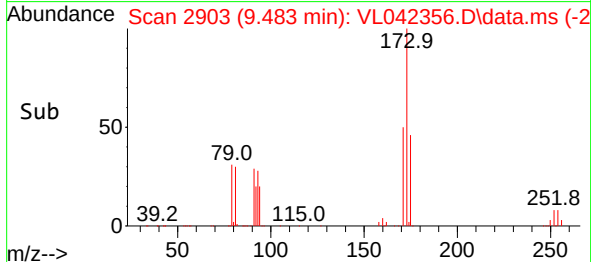
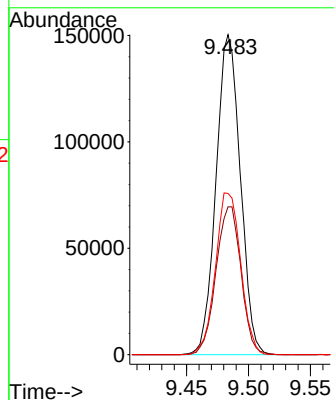
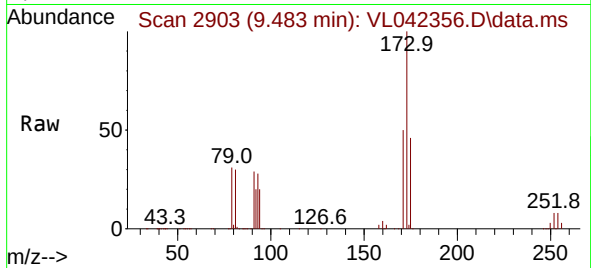




#49
Bromoform
Concen: 10.016 ppbv
RT: 9.483 min Scan# 2903
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

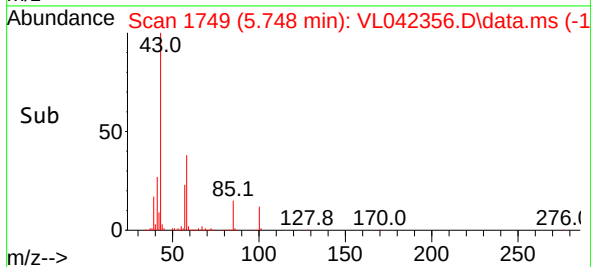
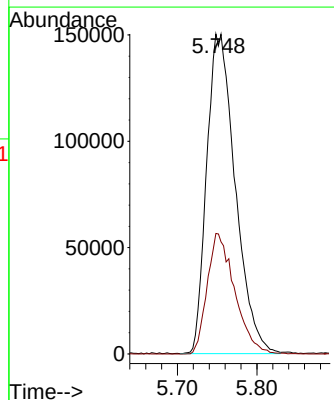
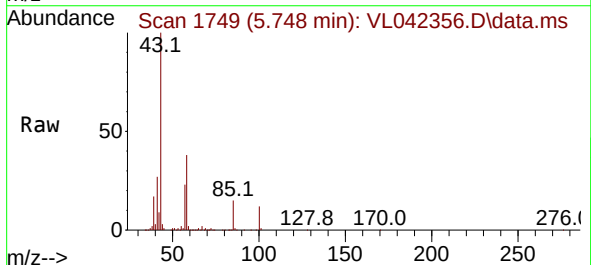
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

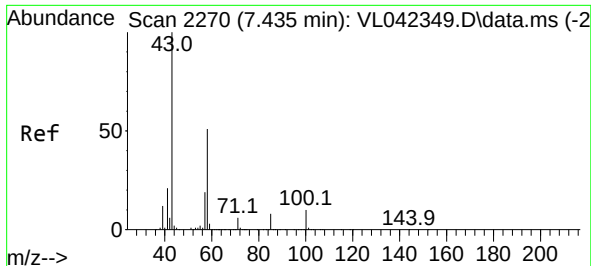
Tgt Ion:173 Resp: 205630
Ion Ratio Lower Upper
173 100
175 47.6 38.2 57.2
171 52.5 40.9 61.3



#50
4-Methyl-2-Pentanone
Concen: 8.819 ppbv
RT: 5.748 min Scan# 1749
Delta R.T. -0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 43 Resp: 376145
Ion Ratio Lower Upper
43 100
58 36.2 28.6 43.0

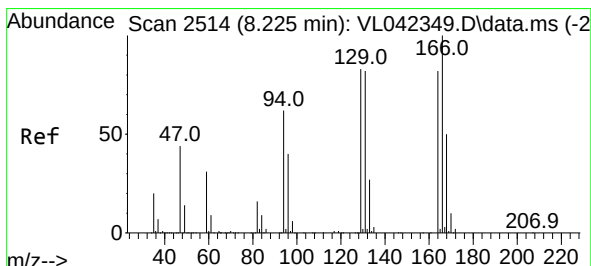
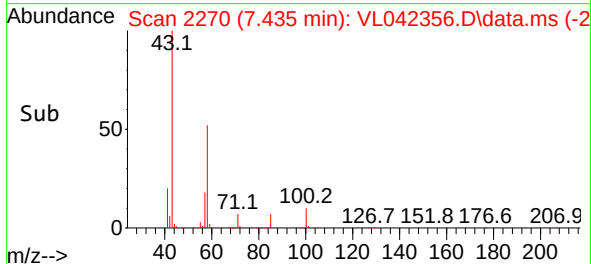
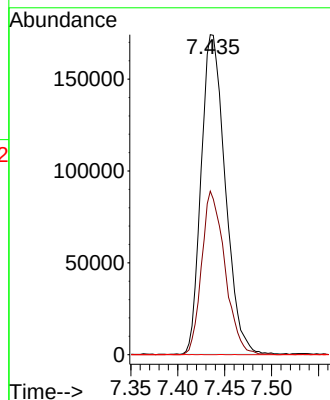
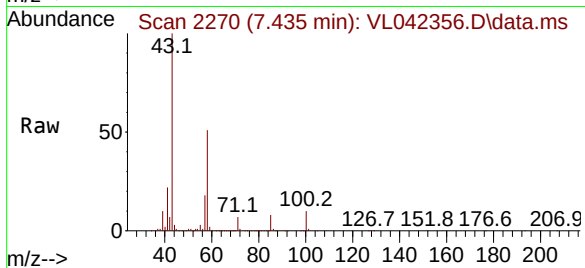




#51
2-Hexanone
Concen: 8.118 ppbv
RT: 7.435 min Scan# 211
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

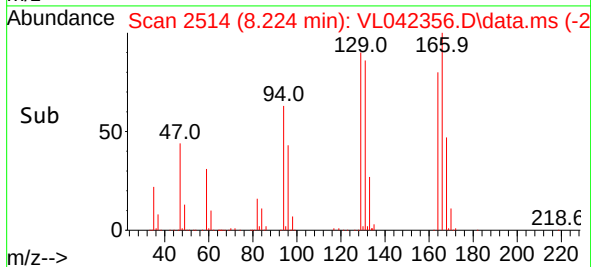
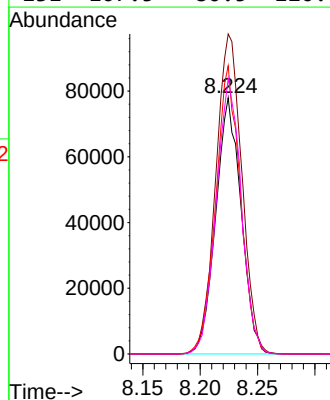
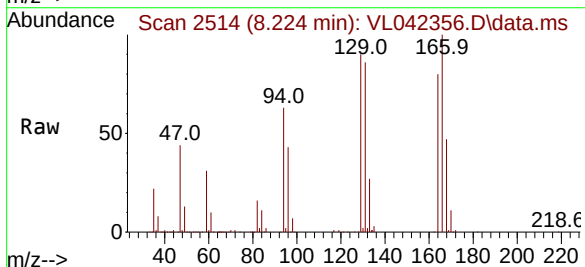
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

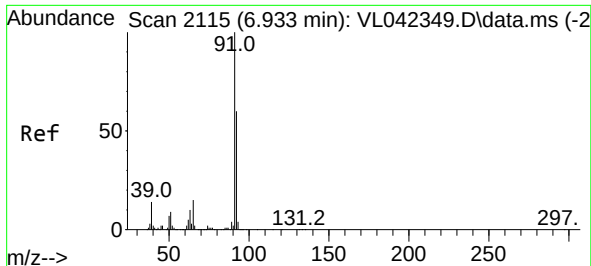
Tgt Ion: 43 Resp: 310521
Ion Ratio Lower Upper
43 100
58 49.3 40.2 60.4
98 0.0 0.1 0.1#



#52
Tetrachloroethene
Concen: 8.827 ppbv
RT: 8.224 min Scan# 2514
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 164 Resp: 119424
Ion Ratio Lower Upper
164 100
166 124.9 98.2 147.2
129 112.5 81.8 122.8
131 107.5 80.5 120.7

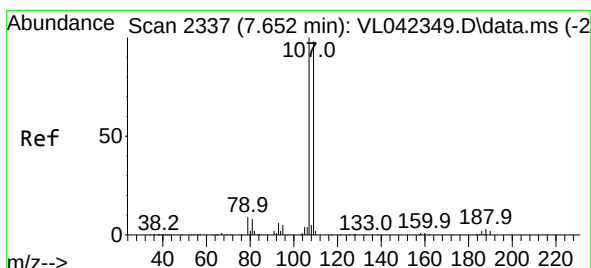
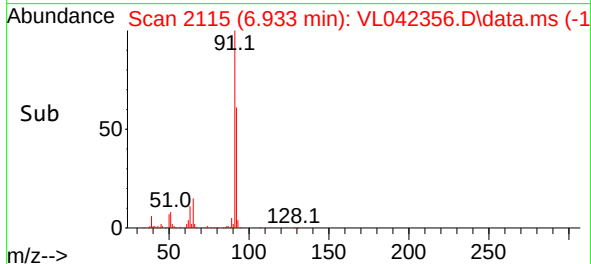
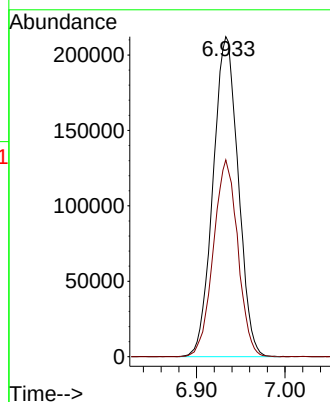
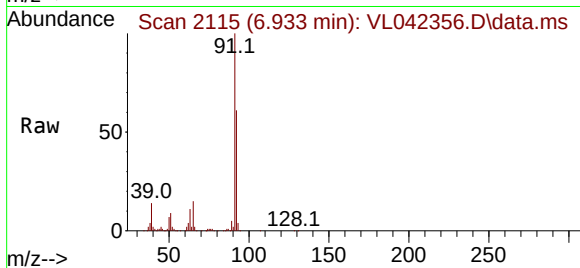




#53
Toluene
Concen: 9.986 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

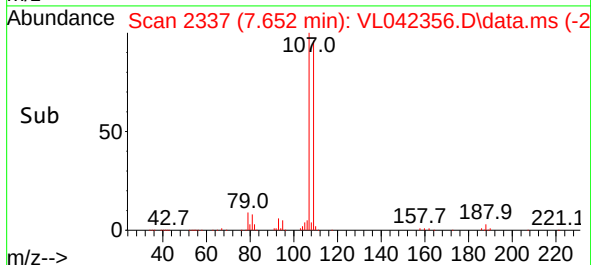
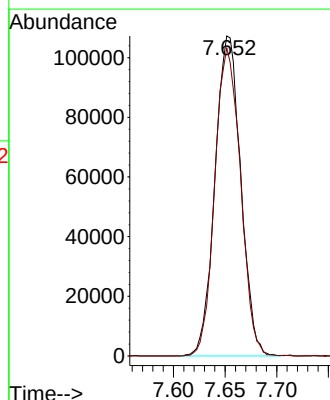
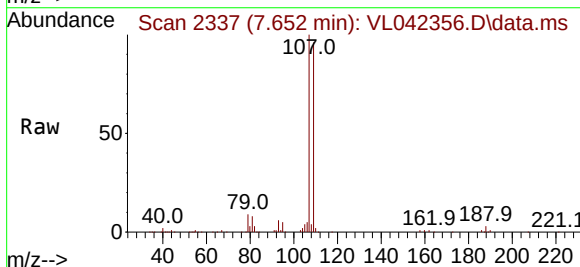
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

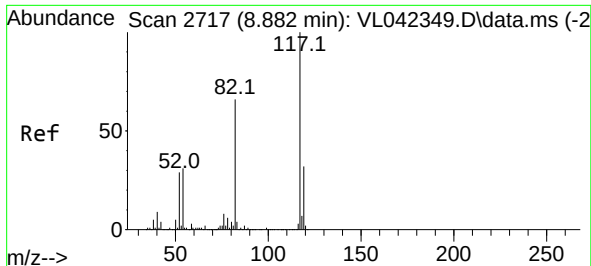
Tgt Ion: 91 Resp: 419462
Ion Ratio Lower Upper
91 100
92 59.6 48.2 72.4



#54
1,2-Dibromoethane
Concen: 9.792 ppbv
RT: 7.652 min Scan# 2337
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 107 Resp: 186231
Ion Ratio Lower Upper
107 100
109 96.3 78.2 117.4

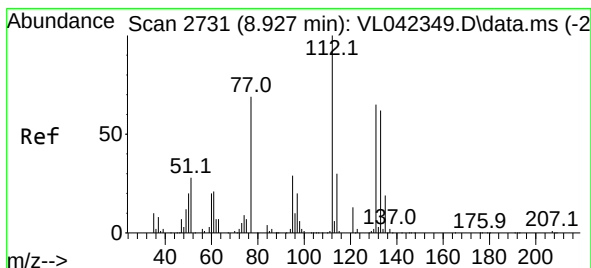
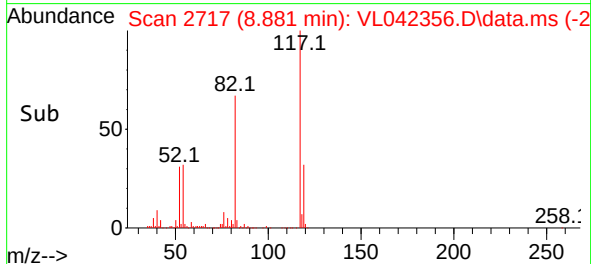
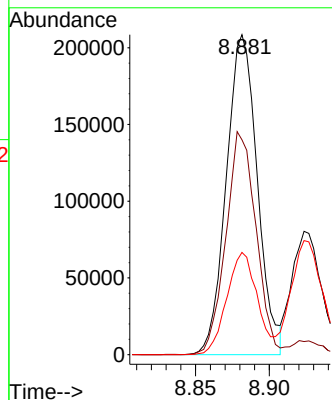
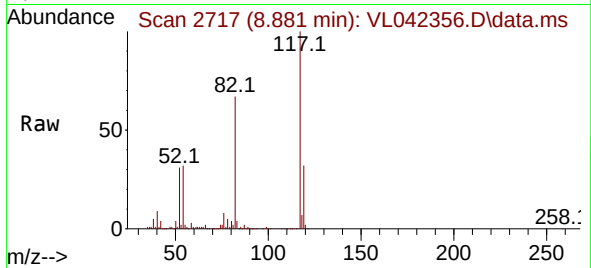




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.881 min Scan# 2717
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

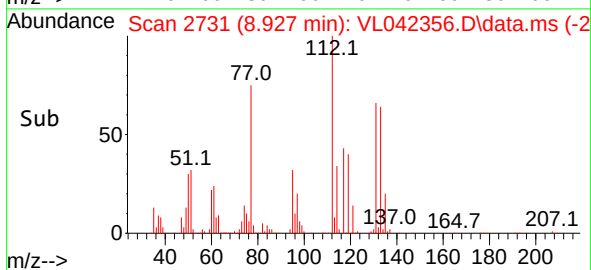
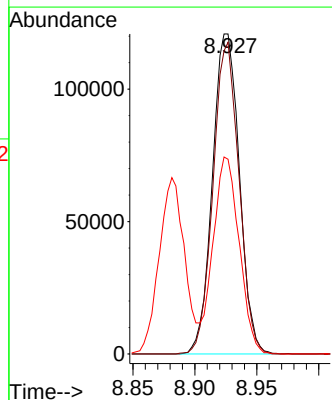
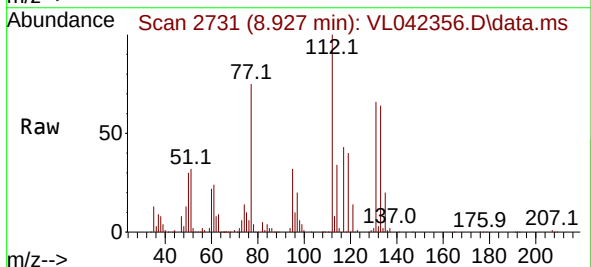
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

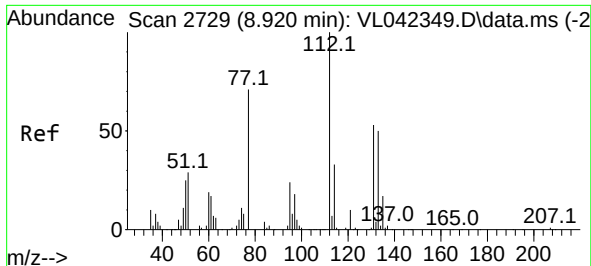
Tgt Ion:117 Resp: 305357
Ion Ratio Lower Upper
117 100
82 68.3 57.8 86.6
119 31.8 25.2 37.8



#56
1,1,1,2-Tetrachloroethane
Concen: 9.886 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:131 Resp: 182712
Ion Ratio Lower Upper
131 100
133 93.9 78.3 117.5
119 59.4 48.7 73.1

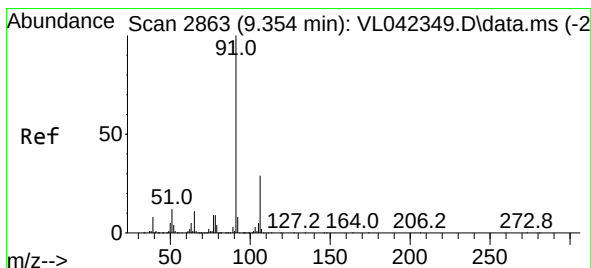
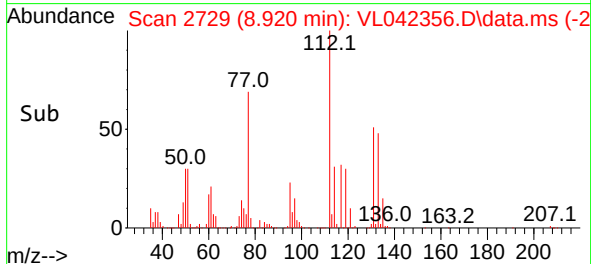
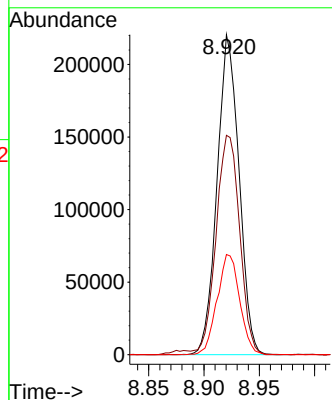
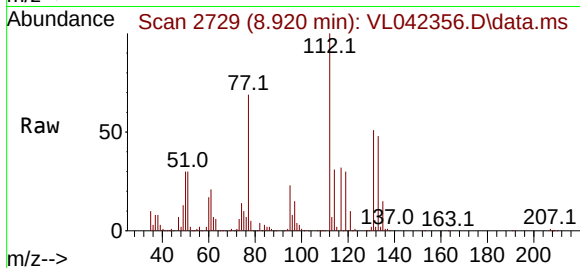




#57
Chlorobenzene
Concen: 9.589 ppbv
RT: 8.920 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

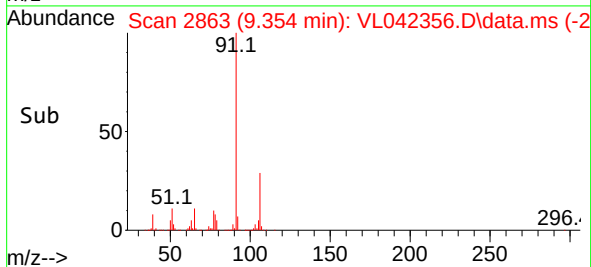
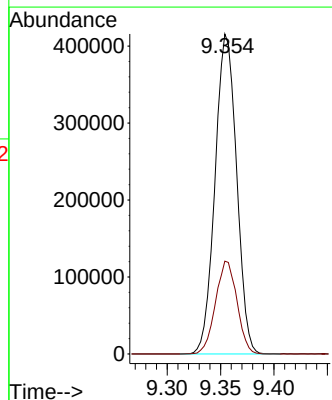
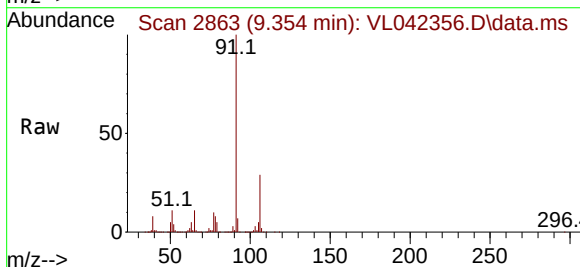
Instrument :
MSVOA_1
ClientSampleId :
ICVVL041725

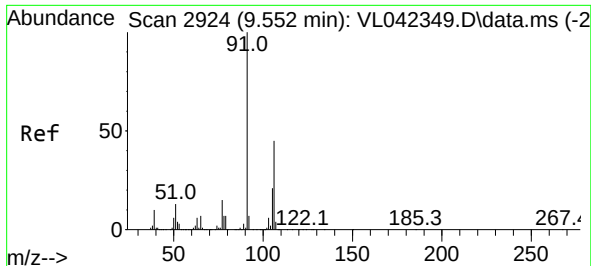
Tgt Ion:112 Resp: 304533
Ion Ratio Lower Upper
112 100
77 68.5 57.8 86.6
114 31.3 29.3 35.9



#58
Ethyl Benzene
Concen: 9.645 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 91 Resp: 583515
Ion Ratio Lower Upper
91 100
106 29.0 23.0 34.4





#59

m/p-Xylene

Concen: 9.084 ppbv

RT: 9.551 min Scan# 2924

Delta R.T. -0.000 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

Instrument :

MSVOA_L

ClientSampleId :

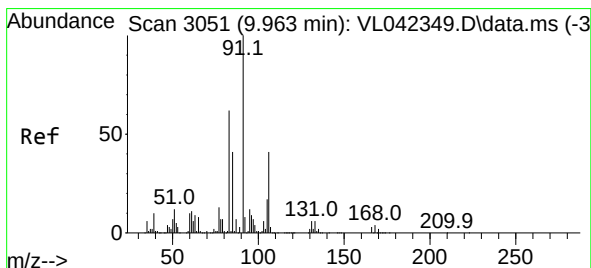
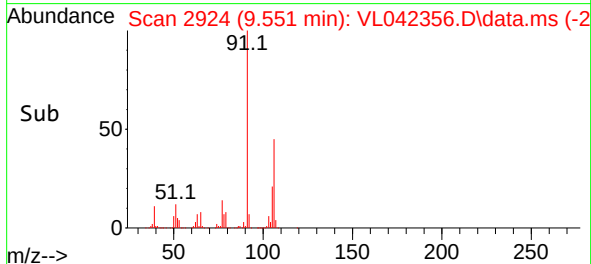
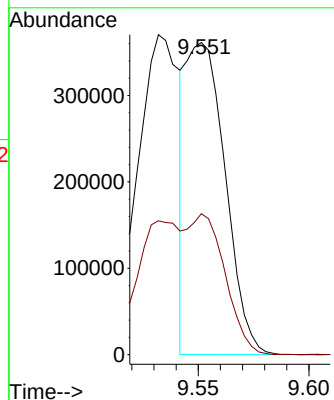
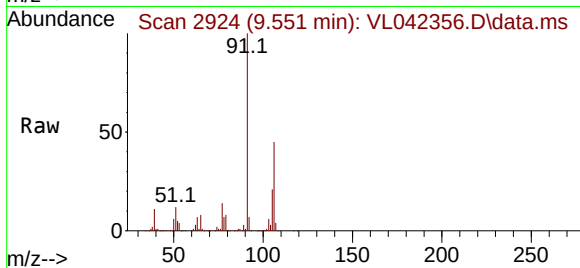
ICVVL041725

Tgt Ion: 91 Resp: 442744

Ion Ratio Lower Upper

91 100

106 92.1 35.4 53.2#



#60

o-Xylene

Concen: 9.465 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. 0.003 min

Lab File: VL042356.D

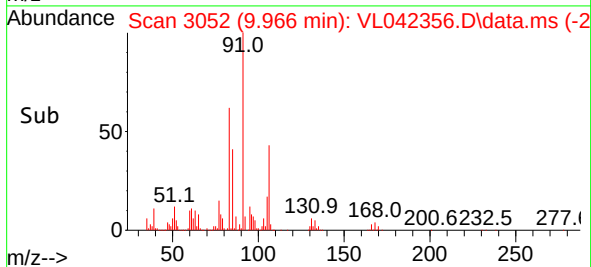
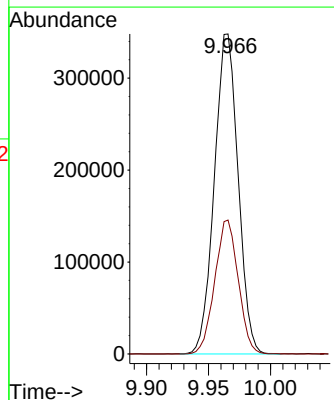
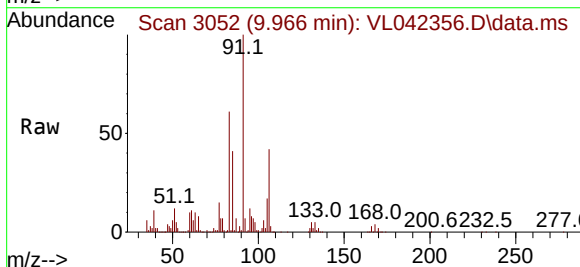
Acq: 17 Apr 2025 13:43

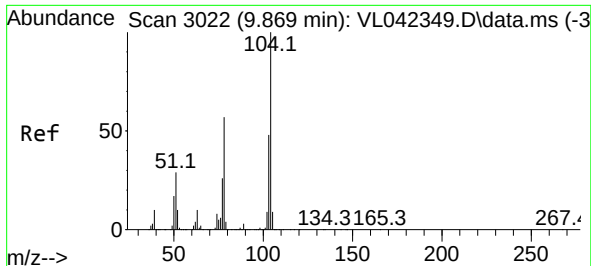
Tgt Ion: 91 Resp: 464522

Ion Ratio Lower Upper

91 100

106 41.4 21.1 63.4





#61

Styrene

Concen: 9.813 ppbv

RT: 9.872 min Scan# 3022

Delta R.T. 0.003 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

Instrument :

MSVOA_L

ClientSampleId :

ICVVL041725

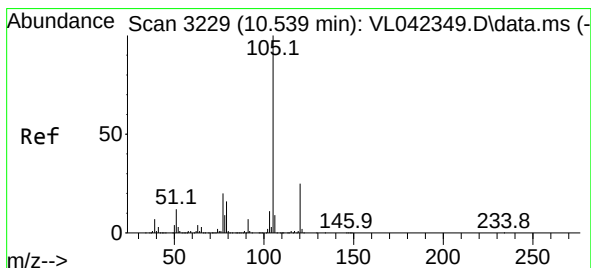
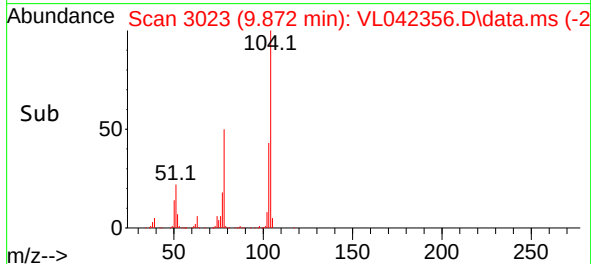
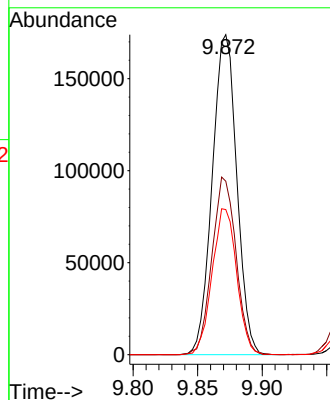
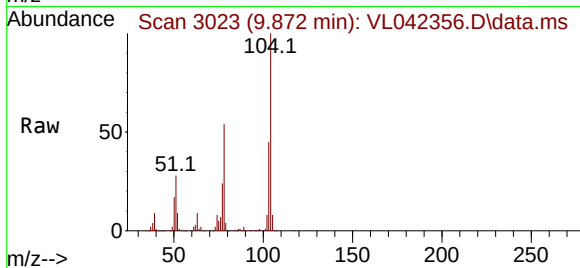
Tgt Ion:104 Resp: 229869

Ion Ratio Lower Upper

104 100

78 54.5 44.6 66.8

103 45.7 37.4 56.0



#62

Isopropylbenzene

Concen: 9.520 ppbv

RT: 10.539 min Scan# 3229

Delta R.T. -0.000 min

Lab File: VL042356.D

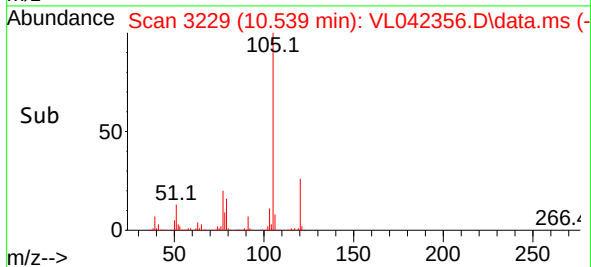
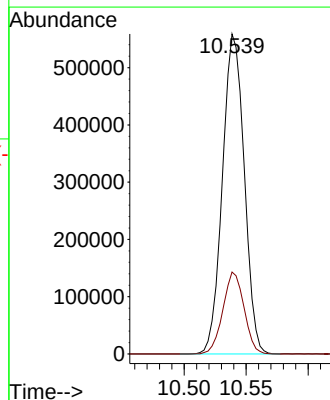
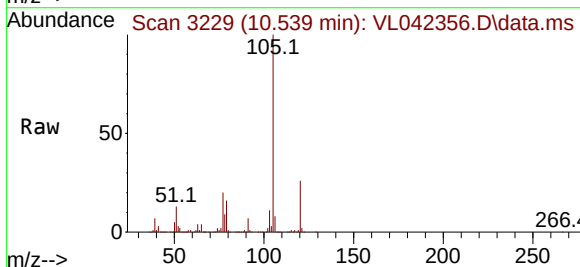
Acq: 17 Apr 2025 13:43

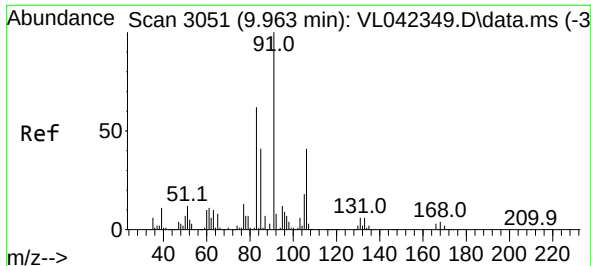
Tgt Ion:105 Resp: 685965

Ion Ratio Lower Upper

105 100

120 24.8 19.8 29.8

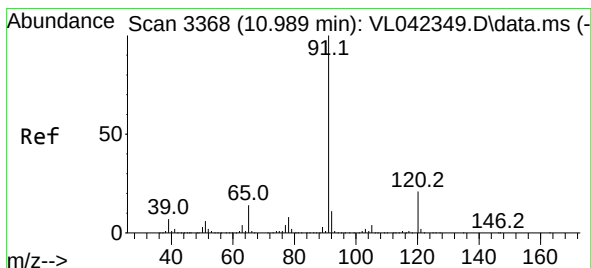
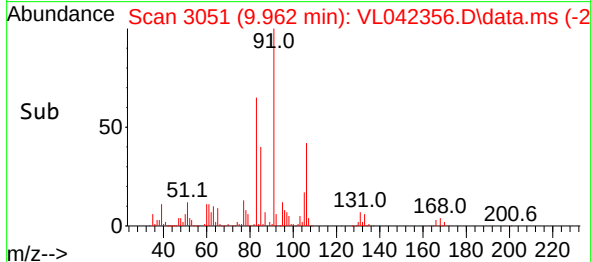
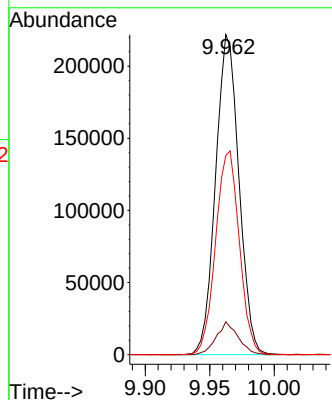
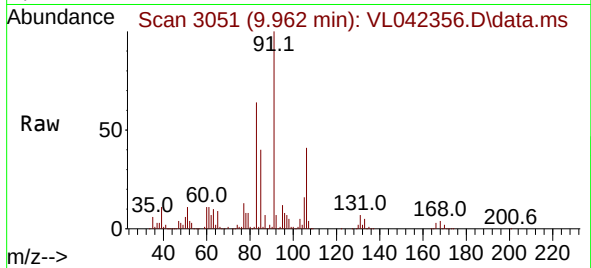




#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.773 ppbv
 RT: 9.962 min Scan# 3051
 Delta R.T. -0.000 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

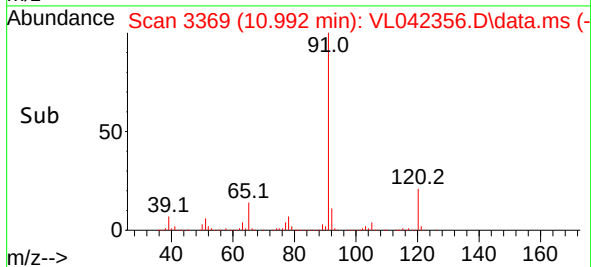
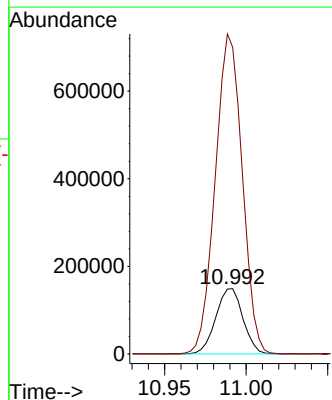
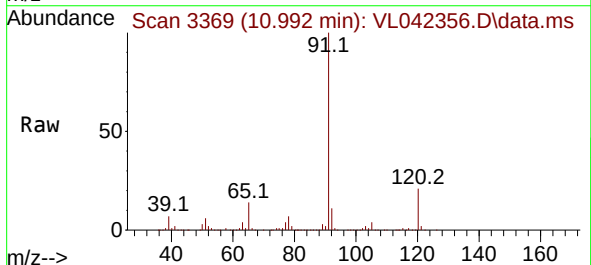
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL041725

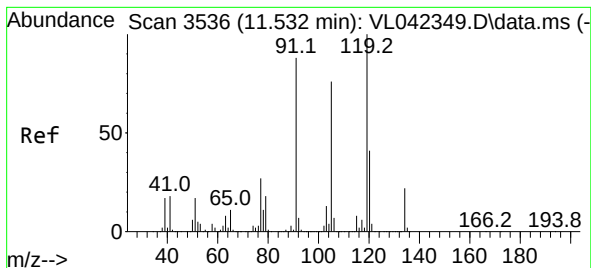
Tgt Ion: 83 Resp: 279007
 Ion Ratio Lower Upper
 83 100
 131 9.6 4.5 13.7
 85 64.6 32.4 97.0



#64
 n-propylbenzene
 Concen: 9.533 ppbv
 RT: 10.992 min Scan# 3369
 Delta R.T. 0.003 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

Tgt Ion: 120 Resp: 172654
 Ion Ratio Lower Upper
 120 100
 91 487.7 392.4 588.6





#65

tert-Butylbenzene

Concen: 9.203 ppbv

RT: 11.532 min Scan# 3536

Delta R.T. -0.000 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

Instrument :

MSVOA_L

ClientSampleId :

ICVVL041725

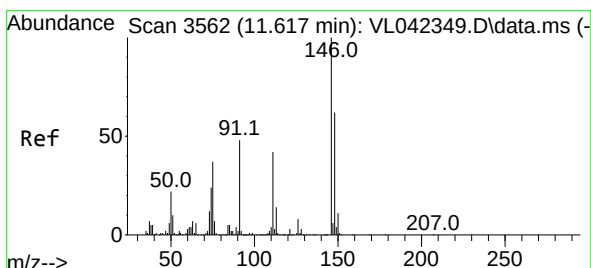
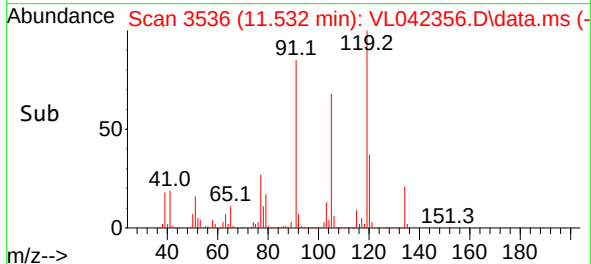
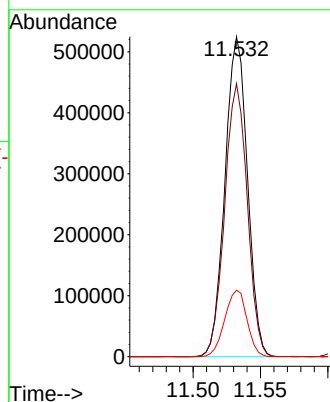
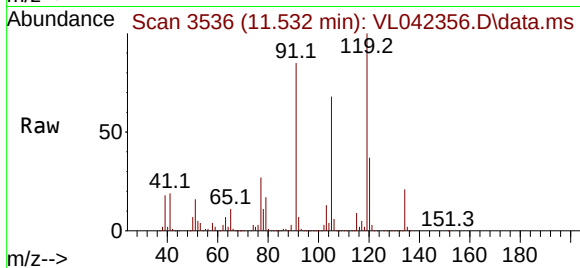
Tgt Ion:119 Resp: 609500

Ion Ratio Lower Upper

119 100

91 85.8 74.6 111.8

134 20.5 18.8 28.2



#66

Benzyl Chloride

Concen: 8.664 ppbv

RT: 11.613 min Scan# 3561

Delta R.T. -0.003 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

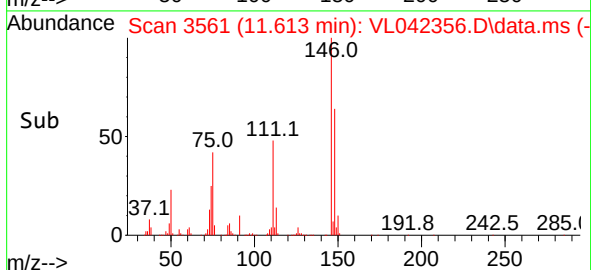
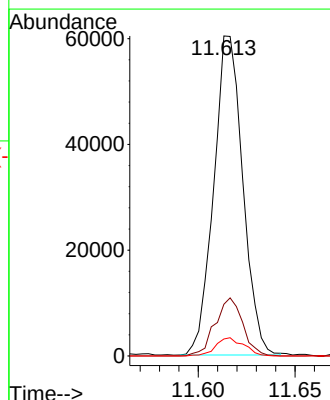
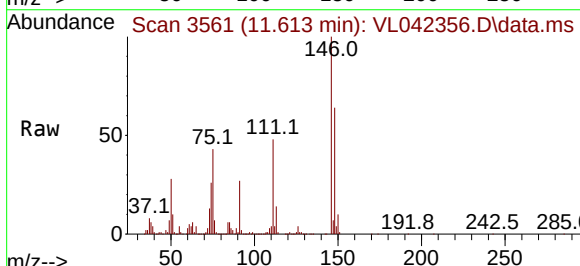
Tgt Ion: 91 Resp: 63051

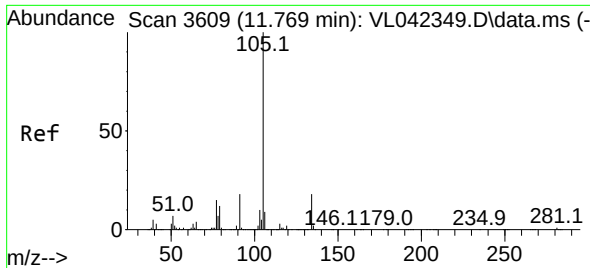
Ion Ratio Lower Upper

91 100

126 17.3 11.8 17.6

128 5.6 4.5 6.7

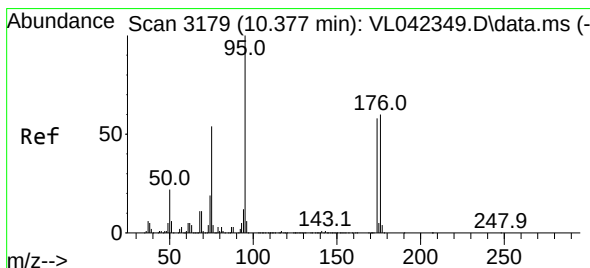
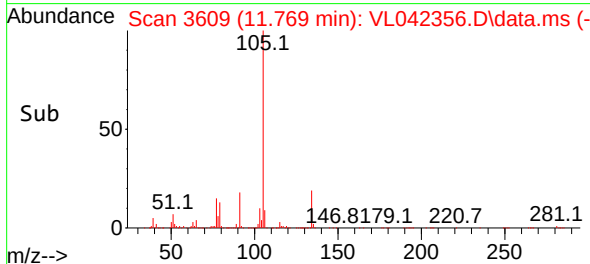
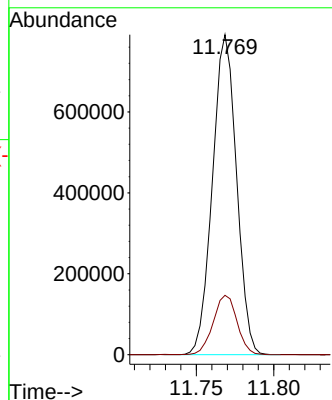
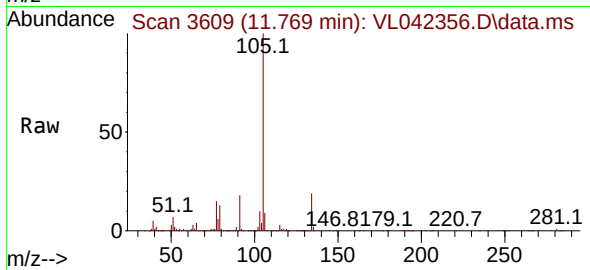




#67
 sec-Butylbenzene
 Concen: 9.268 ppbv
 RT: 11.769 min Scan# 3609
 Delta R.T. -0.000 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

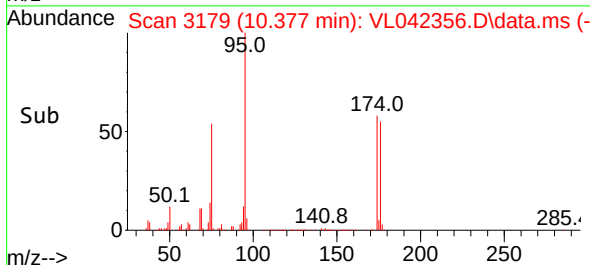
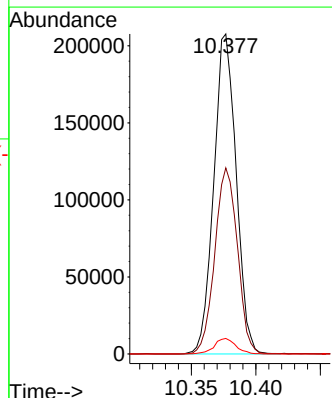
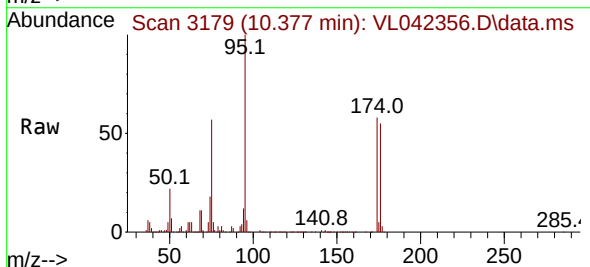
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL041725

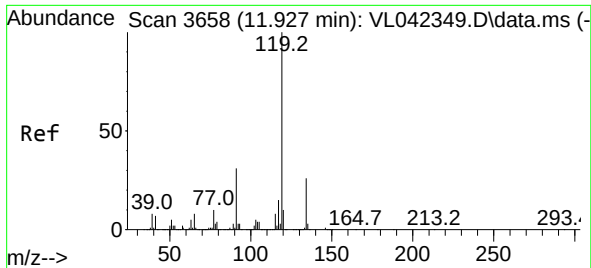
Tgt Ion:105 Resp: 853807
 Ion Ratio Lower Upper
 105 100
 134 18.5 14.6 21.8



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.969 ppbv
 RT: 10.377 min Scan# 3179
 Delta R.T. -0.000 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

Tgt Ion: 95 Resp: 250149
 Ion Ratio Lower Upper
 95 100
 174 58.7 48.5 72.7
 175 4.7 3.7 5.5

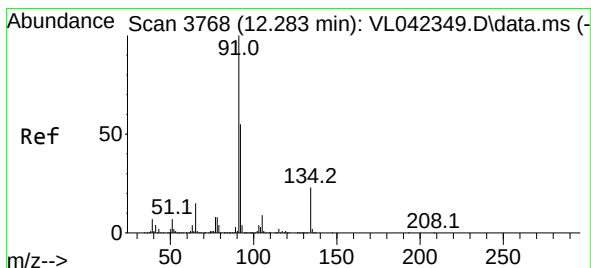
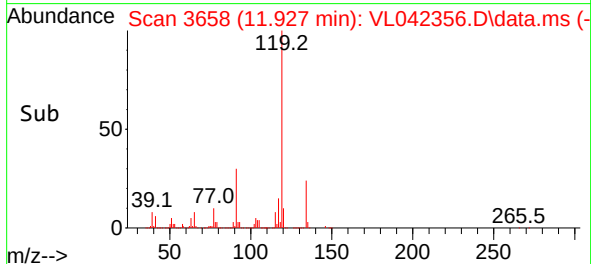
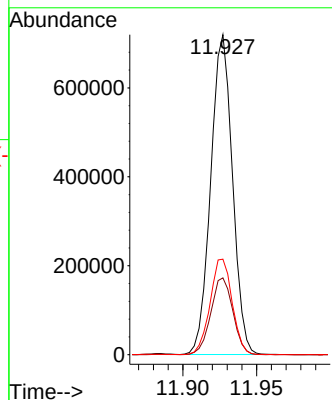
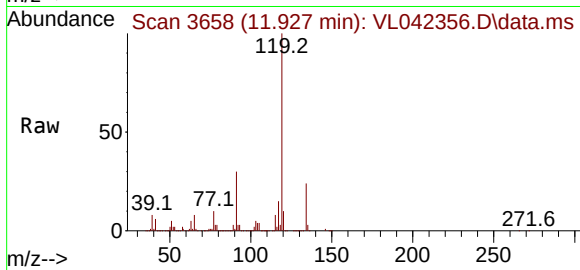




#69
 p-Isopropyltoluene
 Concen: 9.220 ppbv
 RT: 11.927 min Scan# 3658
 Delta R.T. -0.000 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

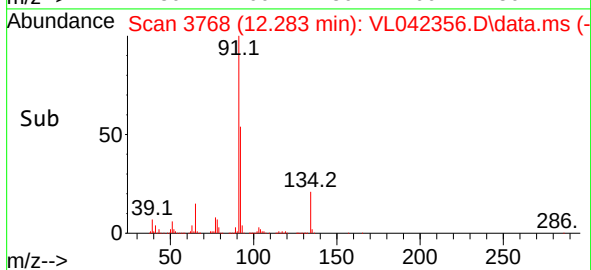
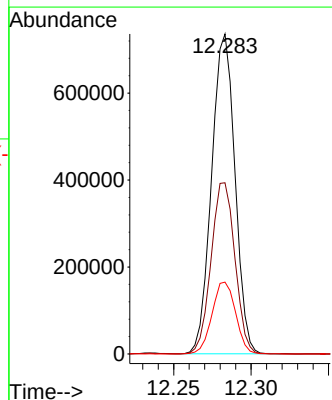
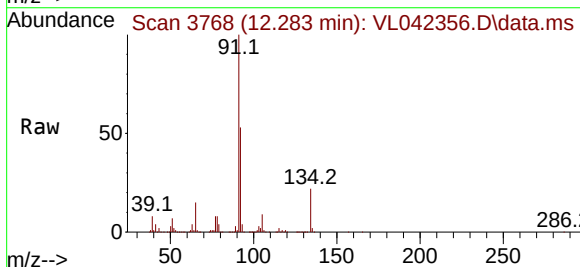
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL041725

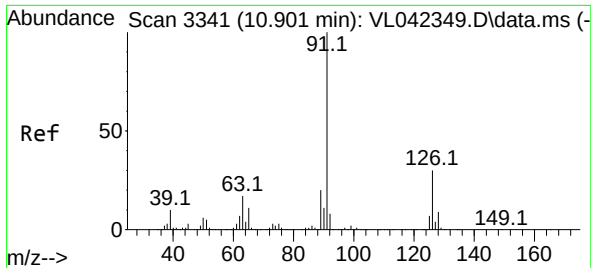
Tgt Ion: 119 Resp: 737861
 Ion Ratio Lower Upper
 119 100
 134 24.5 20.0 30.0
 91 30.6 24.4 36.6



#70
 n-Butylbenzene
 Concen: 9.255 ppbv
 RT: 12.283 min Scan# 3768
 Delta R.T. -0.000 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

Tgt Ion: 91 Resp: 771461
 Ion Ratio Lower Upper
 91 100
 92 54.9 44.2 66.4
 134 22.7 18.2 27.4

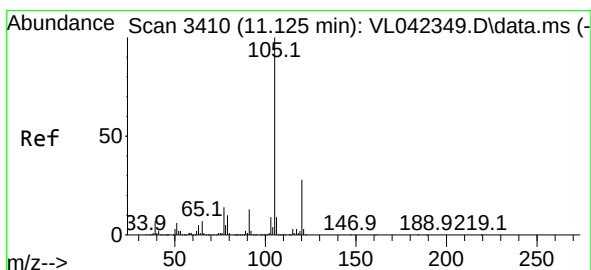
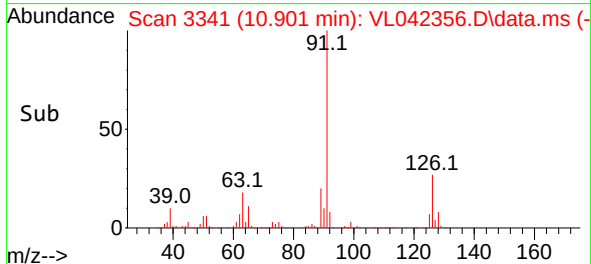
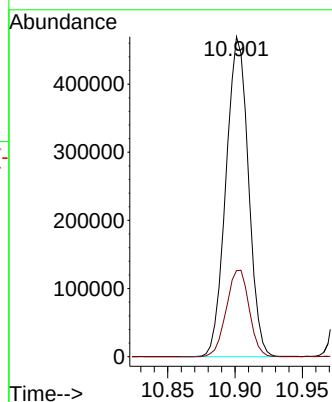
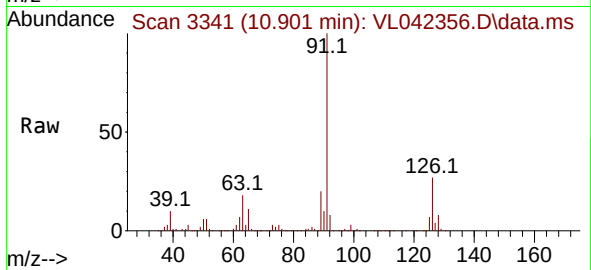




#71
2-Chlorotoluene
Concen: 9.622 ppbv
RT: 10.901 min Scan# 31
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

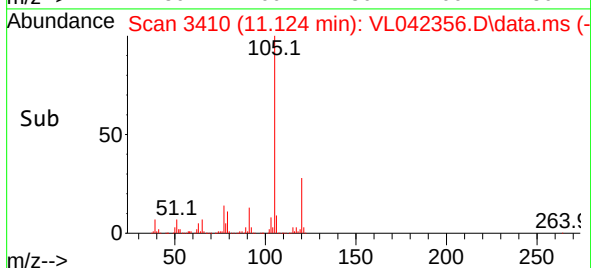
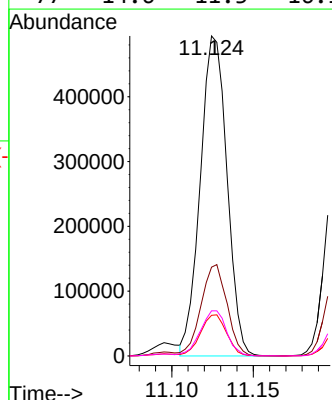
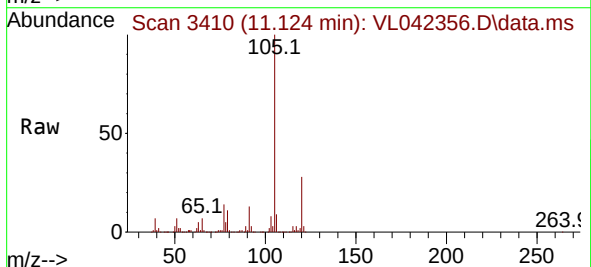
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

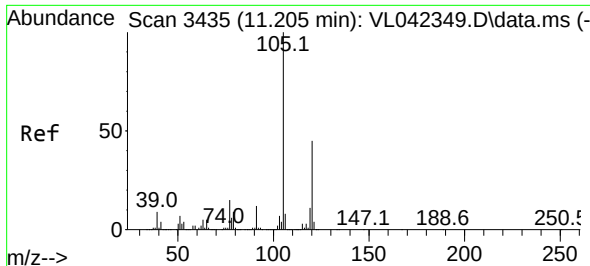
Tgt Ion: 91 Resp: 543794
Ion Ratio Lower Upper
91 100
126 27.5 11.4 45.4



#72
4-Ethyltoluene
Concen: 9.385 ppbv
RT: 11.124 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 105 Resp: 563136
Ion Ratio Lower Upper
105 100
120 28.9 23.2 34.8
91 13.2 10.4 15.6
77 14.6 11.3 16.9

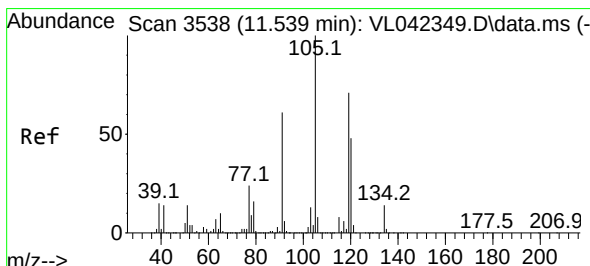
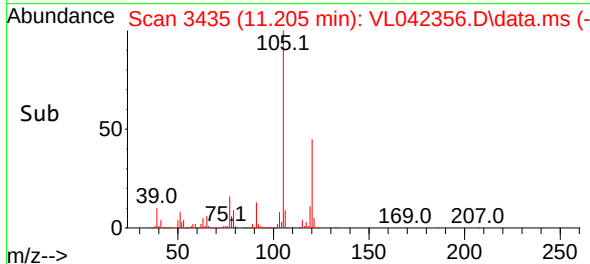
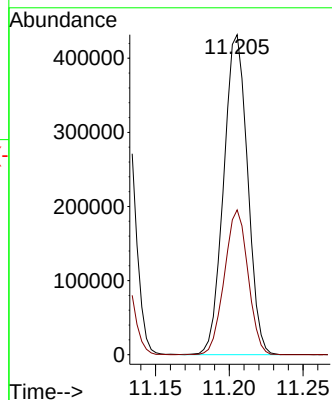
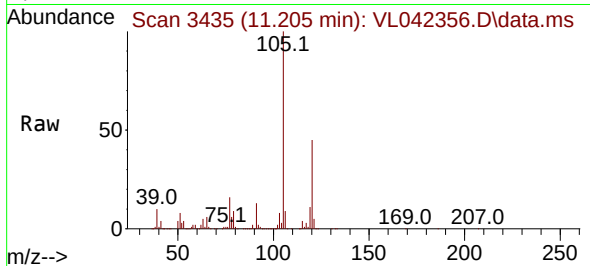




#73
 1,3,5-Trimethylbenzene
 Concen: 9.186 ppbv
 RT: 11.205 min Scan# 3435
 Delta R.T. -0.000 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

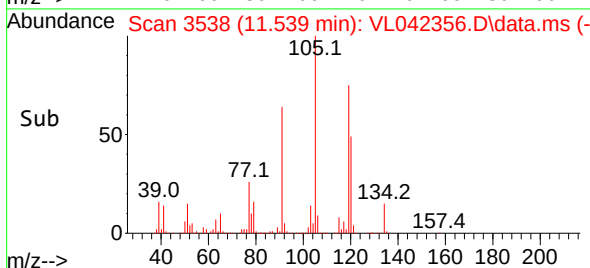
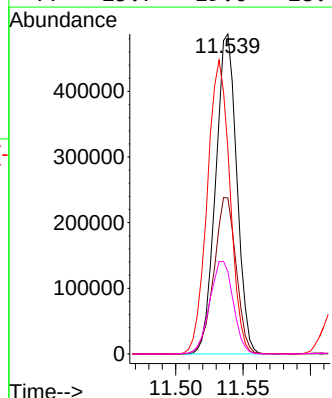
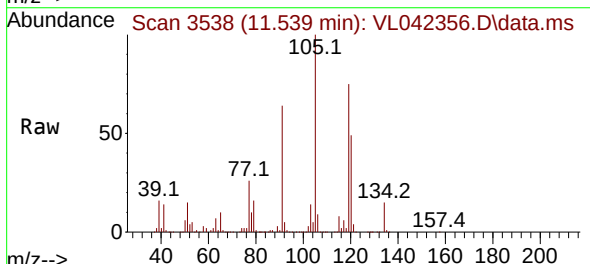
Instrument :
 MSVOA_1
 ClientSampleId :
 ICVVL041725

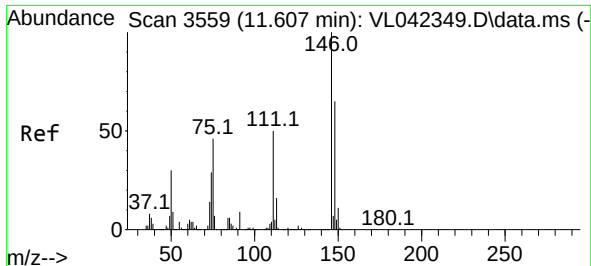
Tgt Ion:105 Resp: 486583
 Ion Ratio Lower Upper
 105 100
 120 45.2 35.6 53.4



#74
 1,2,4-Trimethylbenzene
 Concen: 8.592 ppbv
 RT: 11.539 min Scan# 3538
 Delta R.T. -0.000 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

Tgt Ion:105 Resp: 531576
 Ion Ratio Lower Upper
 105 100
 120 48.7 38.1 57.1
 91 64.0 48.8 73.2
 77 25.7 19.0 28.4

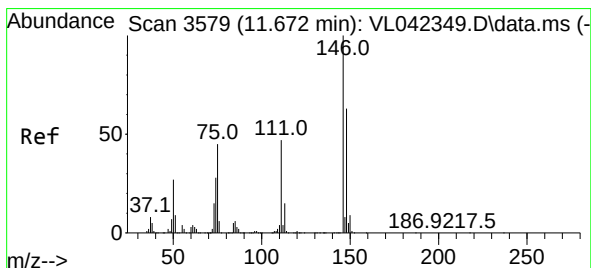
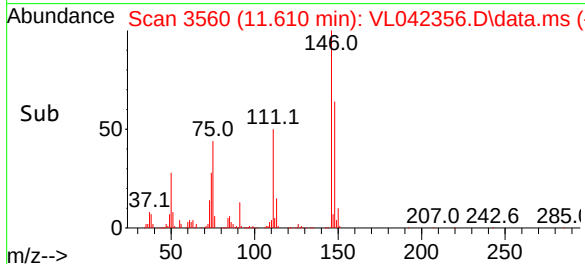
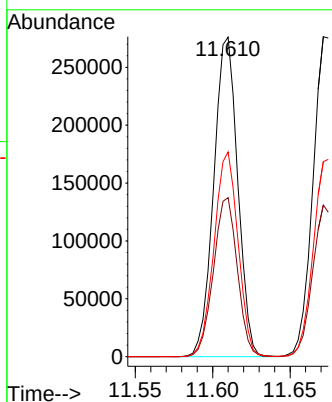
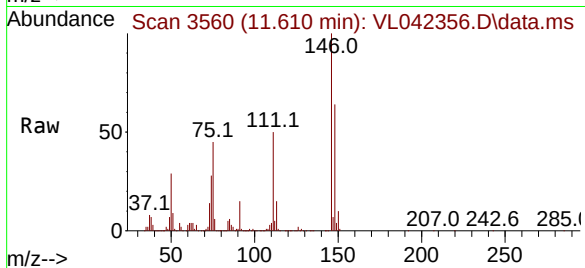




#75
1,3-Dichlorobenzene
Concen: 9.240 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

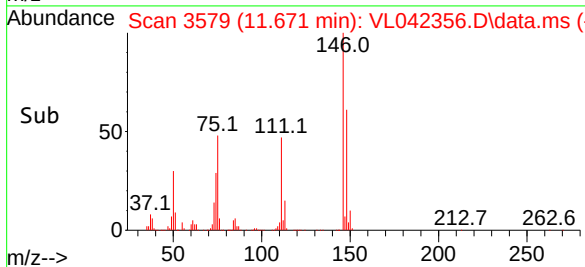
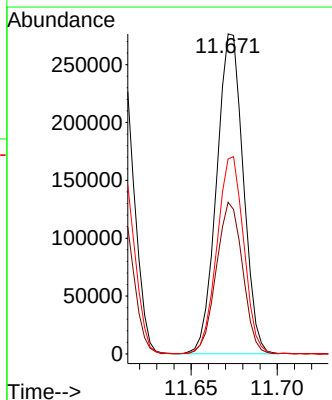
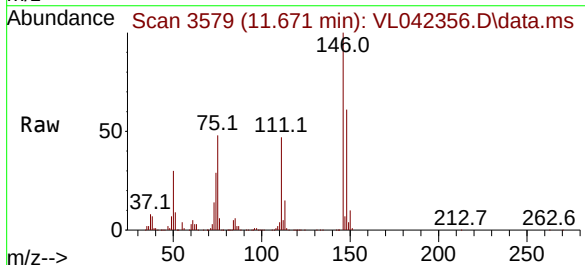
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

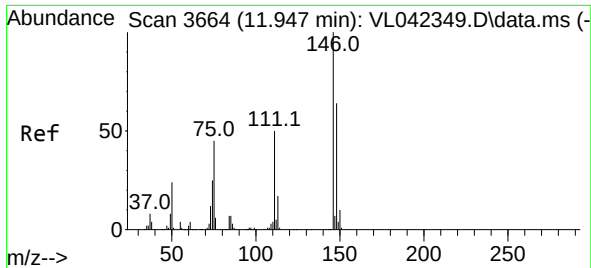
Tgt Ion:146 Resp: 297157
Ion Ratio Lower Upper
146 100
111 49.5 24.3 72.8
148 64.1 31.6 94.8



#76
1,4-Dichlorobenzene
Concen: 9.210 ppbv
RT: 11.671 min Scan# 3579
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:146 Resp: 297697
Ion Ratio Lower Upper
146 100
111 47.1 24.2 72.6
148 62.3 32.1 96.5

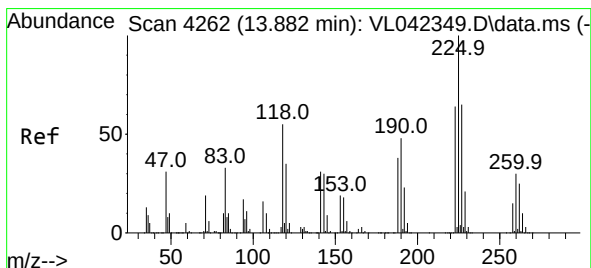
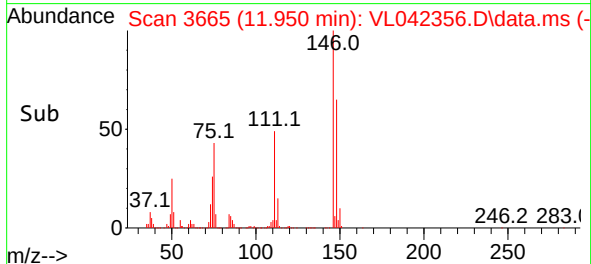
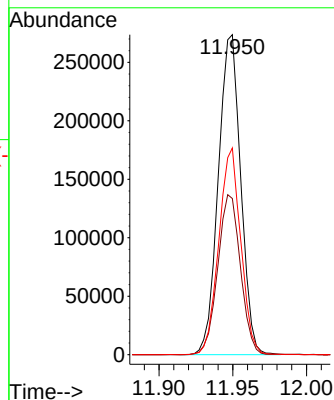
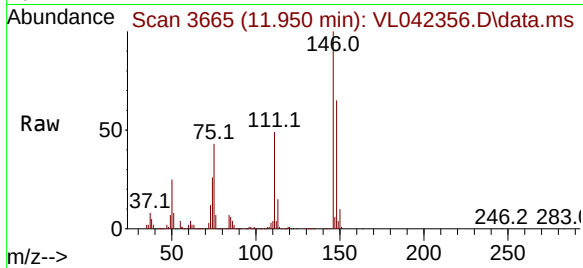




#77
1,2-Dichlorobenzene
Concen: 9.251 ppbv
RT: 11.950 min Scan# 3665
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

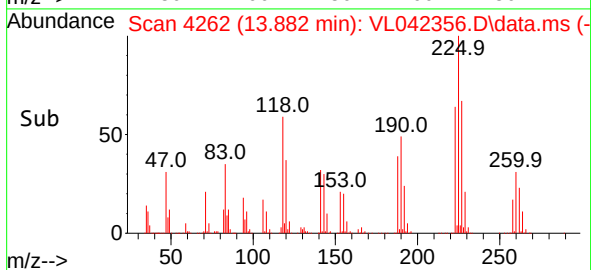
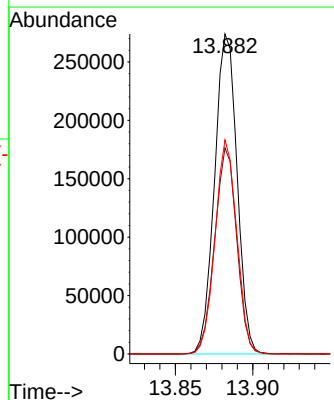
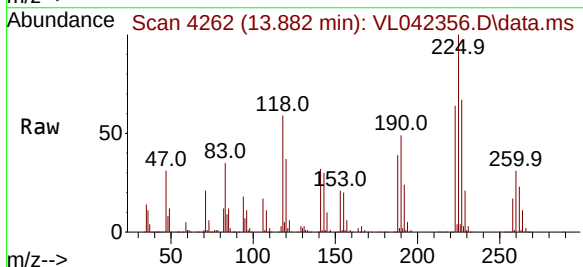
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

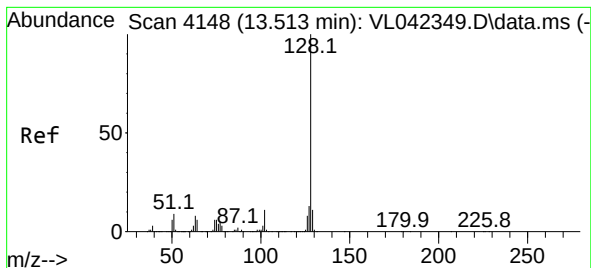
Tgt Ion:146 Resp: 289284
Ion Ratio Lower Upper
146 100
111 50.8 25.3 75.9
148 63.4 31.5 94.5



#78
Hexachloro-1,3-Butadiene
Concen: 8.771 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:225 Resp: 276960
Ion Ratio Lower Upper
225 100
223 63.0 50.3 75.5
227 64.5 51.5 77.3





#79

Naphthalene

Concen: 8.750 ppbv

RT: 13.513 min Scan# 4148

Delta R.T. -0.000 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

Instrument :

MSVOA_L

ClientSampleId :

ICVVL041725

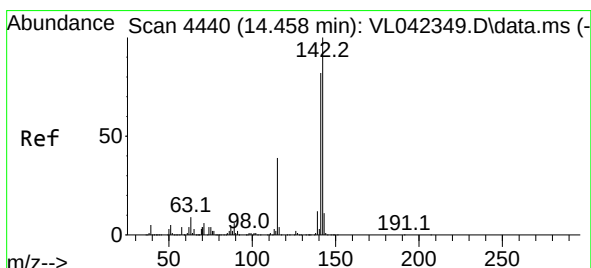
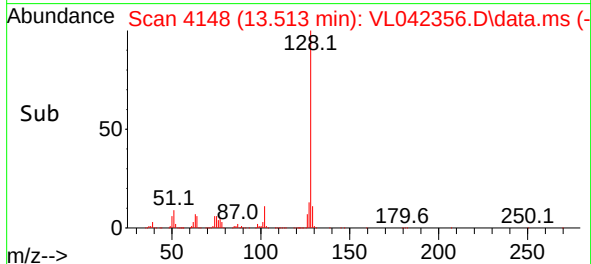
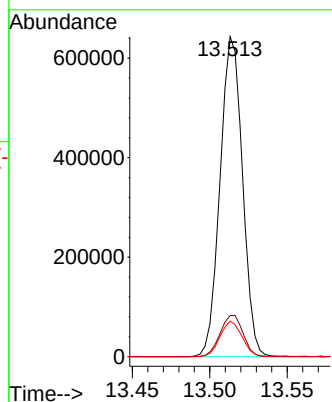
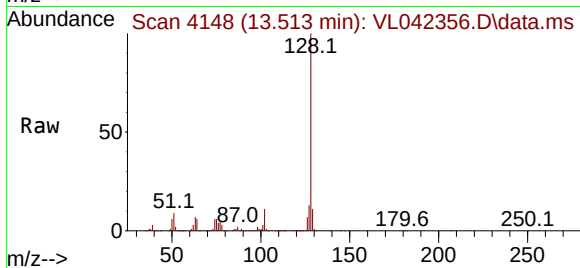
Tgt Ion:128 Resp: 647349

Ion Ratio Lower Upper

128 100

127 12.9 10.6 15.8

129 11.1 8.6 12.8



#80

Naphthalene,2-methyl-

Concen: 8.307 ppbv

RT: 14.458 min Scan# 4440

Delta R.T. -0.000 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

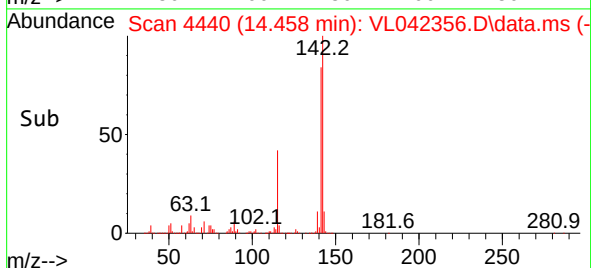
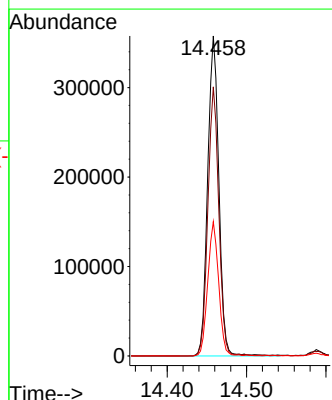
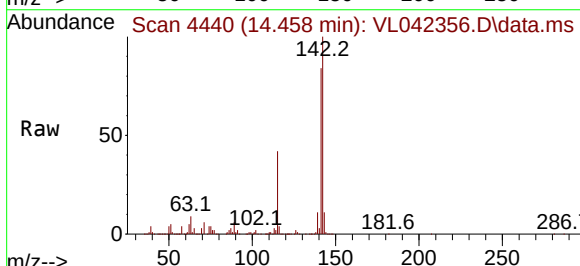
Tgt Ion:142 Resp: 350259

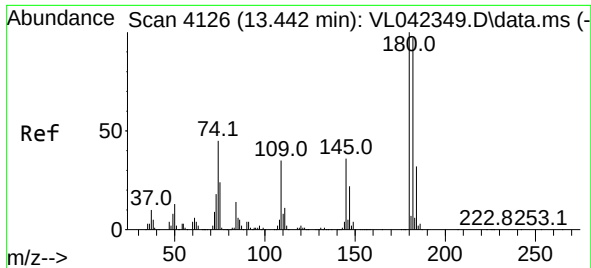
Ion Ratio Lower Upper

142 100

141 83.0 66.8 100.2

115 41.4 33.4 50.2





#81

1,2,4-Trichlorobenzene

Concen: 9.136 ppbv

RT: 13.442 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042356.D

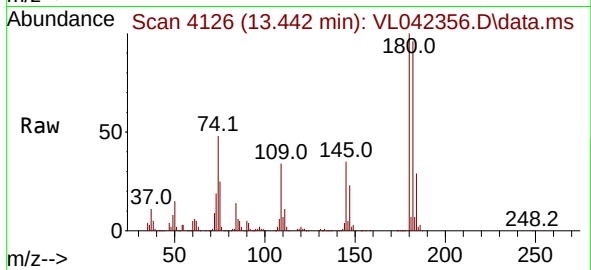
Acq: 17 Apr 2025 13:43

Instrument :

MSVOA_L

ClientSampleId :

ICVVL041725



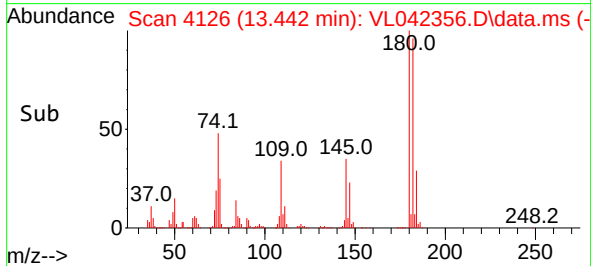
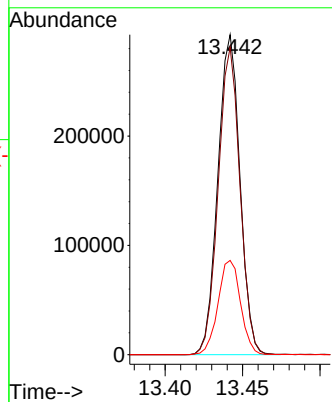
Tgt Ion:180 Resp: 290260

Ion Ratio Lower Upper

180 100

182 94.7 76.8 115.2

184 30.1 24.6 36.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042925\
 Data File : VL042436.D
 Acq On : 29 Apr 2025 08:39
 Operator : SY/MD
 Sample : VSTDC0010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDC0010

Quant Time: Apr 30 01:15:51 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 02:14:00 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.780	49	114553	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	311268	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	269987	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.373	95	253216	11.413	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	114.100%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.495	85	234841	11.603	ppbv	97
3) Chlorodifluoromethane	1.473	51	188007	9.755	ppbv	95
4) Chloromethane	1.531	50	90298	11.274	ppbv	100
5) Vinyl Chloride	1.576	62	86603	9.933	ppbv	96
6) Bromomethane	1.664	94	41020	10.952	ppbv	85
7) Chloroethane	1.703	64	35167	11.153	ppbv	95
8) Dichlorotetrafluoroethane	1.550	85	199977	11.508	ppbv	94
9) Propene	1.482	41	69189	7.883	ppbv	98
10) Heptane	4.968	43	184737	7.492	ppbv	99
11) Trichlorofluoromethane	1.874	101	227979	11.845	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.136	101	172070	10.934	ppbv	99
13) Ethanol	1.719	45	4336	3.108	ppbv	81
14) Bromoethene	1.777	108	63597	10.721	ppbv	97
15) Acetone	1.832	43	184887	9.859	ppbv	98
16) 1,3-Butadiene	1.605	39	88889	9.910	ppbv	95
17) tert-Butyl alcohol	2.036	59	229627	9.881	ppbv	99
18) 1,1-Dichloroethene	2.029	96	75451	10.263	ppbv	94
19) Isopropyl Alcohol	1.884	45	101987	9.790	ppbv	91
20) Methylene Chloride	2.059	84	67278	9.161	ppbv	95
21) Allyl Chloride	2.091	41	131864	10.184	ppbv	98
22) trans-1,2-Dichloroethene	2.337	96	86577	10.343	ppbv	95
23) Vinyl Acetate	2.460	43	61601	8.115	ppbv #	95
24) 1,1-Dichloroethane	2.405	63	172555	10.852	ppbv	98
25) Ethyl Acetate	2.832	43	408744	8.840	ppbv	100
26) Hexane	2.819	57	153801	8.220	ppbv	96
27) Carbon Disulfide	2.146	76	212793	10.622	ppbv	99
28) Methyl tert-Butyl Ether	2.437	73	114108	9.308	ppbv	93
29) Chloroform	2.845	83	290965	11.002	ppbv	100
30) Cyclohexane	3.848	84	130608	8.635	ppbv	97
31) cis-1,2-Dichloroethene	2.716	61	174659	9.818	ppbv	97
32) 1,1,1-Trichloroethane	3.363	97	312430	10.493	ppbv	99
34) 2-Butanone	2.554	43	232034	9.426	ppbv	98
35) Carbon Tetrachloride	3.755	117	316689	11.242	ppbv	94
36) Benzene	3.651	78	314493	9.367	ppbv	95
37) 1,2-Dichloroethane	3.214	62	244516	12.134	ppbv #	96
38) Trichloroethene	4.541	130	123997	8.450	ppbv #	88
39) 1,2-Dichloropropane	4.305	63	110315	8.817	ppbv #	84
40) 1,4-Dioxane	4.577	88	54364	7.907	ppbv #	90
41) Tetrahydrofuran	3.049	42	121700	8.479	ppbv	100
42) Bromodichloromethane	4.483	83	312029	11.127	ppbv	98
43) Methyl Methacrylate	4.874	69	126594	8.367	ppbv	94
44) 2,2,4-Trimethylpentane	4.632	57	522427	9.010	ppbv	94
45) t-1,3-Dichloropropene	6.409	75	139508	9.026	ppbv	89

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042925\
 Data File : VL042436.D
 Acq On : 29 Apr 2025 08:39
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

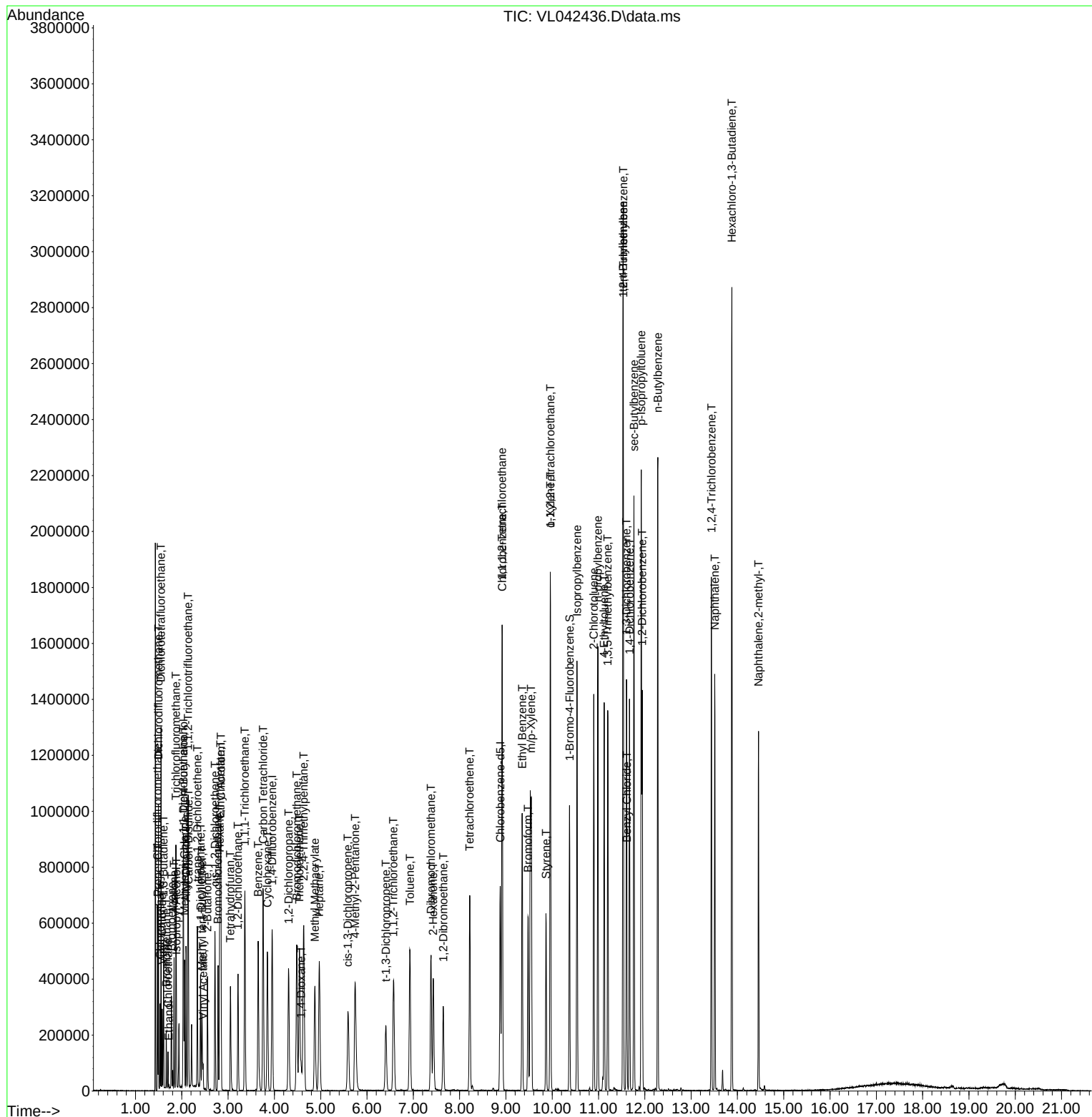
Instrument :
 MSVOA_L
 ClientSampleId :
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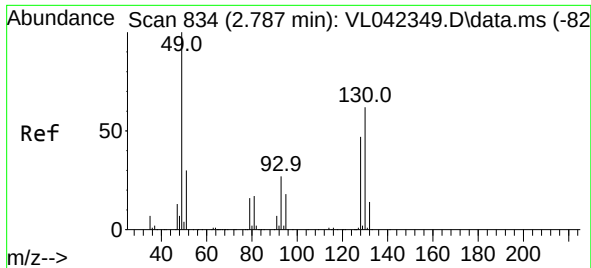
Quant Time: Apr 30 01:15:51 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 02:14:00 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.587	75	169355	8.953	ppbv	90
47) 1,1,2-Trichloroethane	6.570	97	86392	6.778	ppbv	97
48) Dibromochloromethane	7.380	129	232818	10.339	ppbv	100
49) Bromoform	9.477	173	188896	9.593	ppbv	99
50) 4-Methyl-2-Pentanone	5.742	43	325855	7.965	ppbv	99
51) 2-Hexanone	7.428	43	269915	7.357	ppbv #	93
52) Tetrachloroethene	8.218	164	101642	7.833	ppbv #	84
53) Toluene	6.926	91	361317	8.968	ppbv	100
54) 1,2-Dibromoethane	7.645	107	179895	9.861	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.917	131	182759	11.184	ppbv	95
57) Chlorobenzene	8.920	112	283210	10.086	ppbv	97
58) Ethyl Benzene	9.351	91	536634	10.032	ppbv	96
59) m/p-Xylene	9.545	91	469573	10.897	ppbv #	43
60) o-Xylene	9.959	91	463713	10.686	ppbv	96
61) Styrene	9.869	104	195813	9.454	ppbv	98
62) Isopropylbenzene	10.535	105	672630	10.558	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.959	83	272746	9.699	ppbv	99
64) n-propylbenzene	10.985	120	160736	10.037	ppbv	90
65) tert-Butylbenzene	11.529	119	616872	10.535	ppbv	98
66) Benzyl Chloride	11.613	91	49841	7.746	ppbv	98
67) sec-Butylbenzene	11.765	105	869595	10.677	ppbv	99
69) p-Isopropyltoluene	11.924	119	738863	10.442	ppbv	96
70) n-Butylbenzene	12.280	91	787717	10.688	ppbv	98
71) 2-Chlorotoluene	10.898	91	528205	10.571	ppbv	96
72) 4-Ethyltoluene	11.121	105	559285	10.542	ppbv	96
73) 1,3,5-Trimethylbenzene	11.199	105	493949	10.546	ppbv	93
74) 1,2,4-Trimethylbenzene	11.535	105	554136	10.130	ppbv	96
75) 1,3-Dichlorobenzene	11.603	146	285025	10.024	ppbv	97
76) 1,4-Dichlorobenzene	11.668	146	291795	10.210	ppbv	98
77) 1,2-Dichlorobenzene	11.943	146	283700	10.261	ppbv	97
78) Hexachloro-1,3-Butadiene	13.879	225	263477	9.437	ppbv	99
79) Naphthalene	13.510	128	615408	9.408	ppbv	99
80) Naphthalene,2-methyl-	14.455	142	316788	8.497	ppbv	96
81) 1,2,4-Trichlorobenzene	13.439	180	263006	9.363	ppbv	98

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

Quant Time: Apr 30 01:15:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

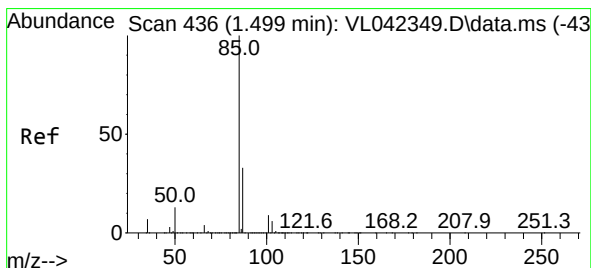
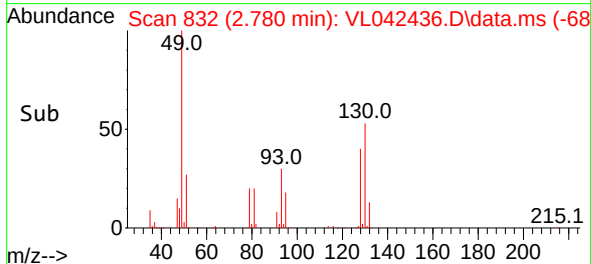
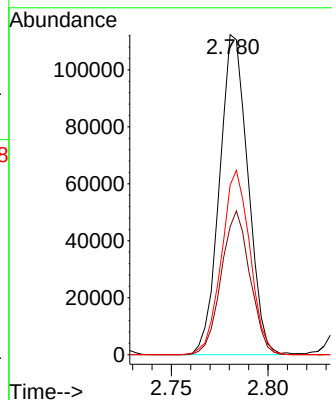
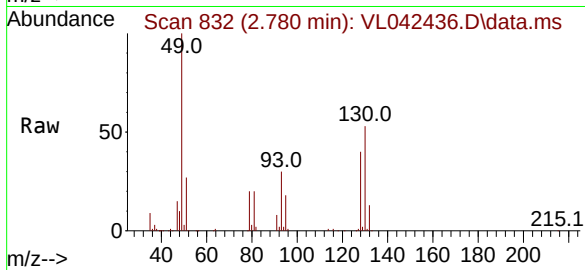




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.780 min Scan# 81
 Delta R.T. -0.007 min
 Lab File: VL042436.D
 Acq: 29 Apr 2025 08:39

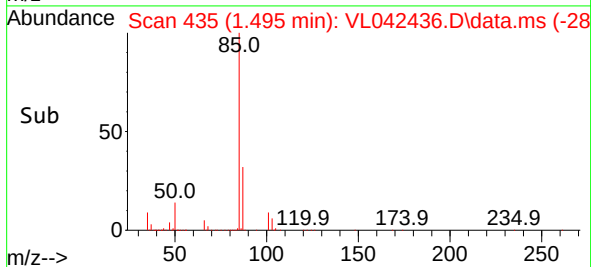
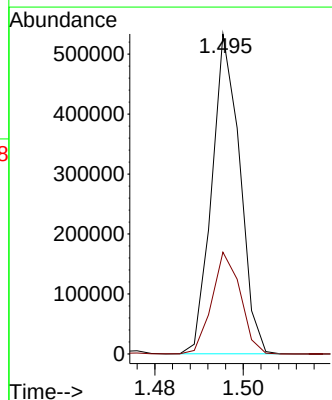
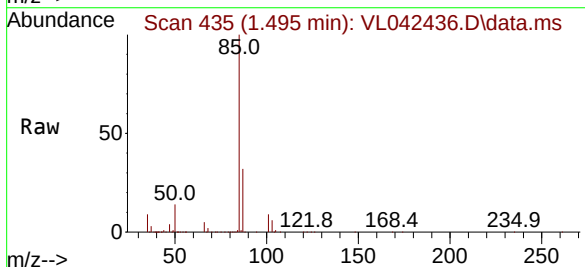
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

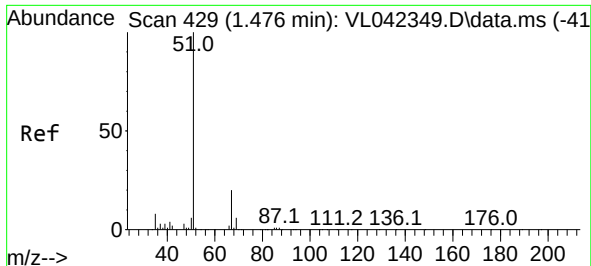
Tgt Ion: 49 Resp: 114553
 Ion Ratio Lower Upper
 49 100
 128 45.3 22.8 68.4
 130 57.8 29.3 88.0



#2
 Dichlorodifluoromethane
 Concen: 11.603 ppbv
 RT: 1.495 min Scan# 435
 Delta R.T. -0.003 min
 Lab File: VL042436.D
 Acq: 29 Apr 2025 08:39

Tgt Ion: 85 Resp: 234841
 Ion Ratio Lower Upper
 85 100
 87 31.8 26.6 39.8

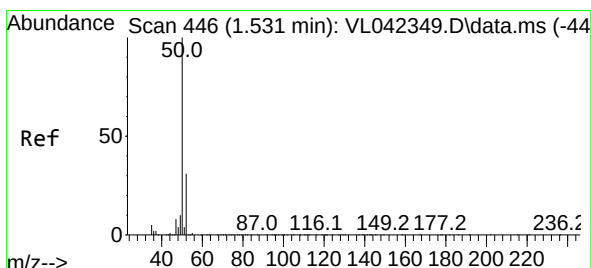
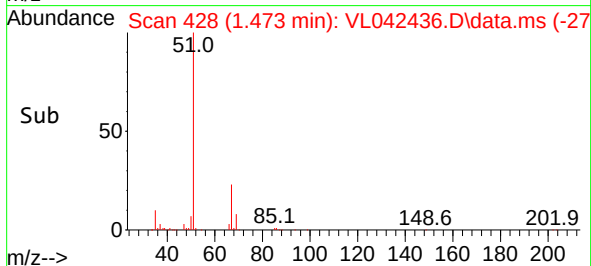
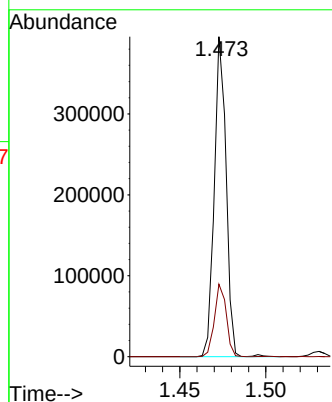
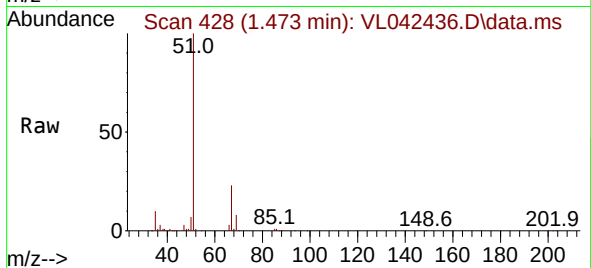




#3
Chlorodifluoromethane
Concen: 9.755 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

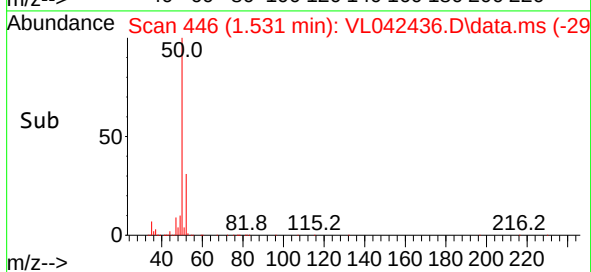
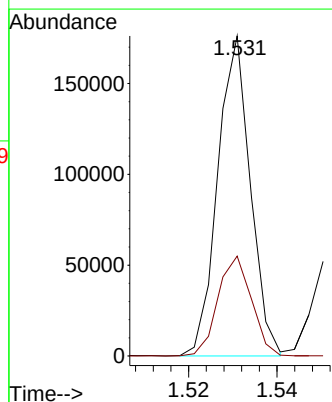
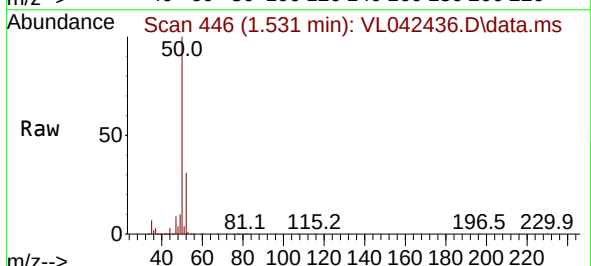
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

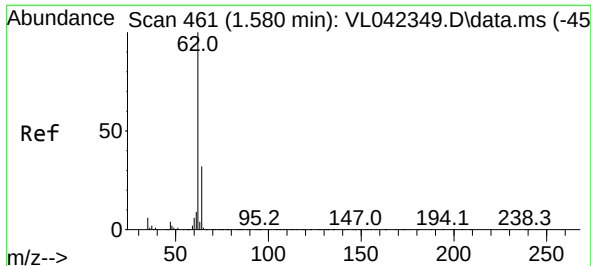
Tgt Ion: 51 Resp: 188007
Ion Ratio Lower Upper
51 100
67 22.8 16.2 24.4



#4
Chloromethane
Concen: 11.274 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 50 Resp: 90298
Ion Ratio Lower Upper
50 100
52 31.2 24.7 37.1

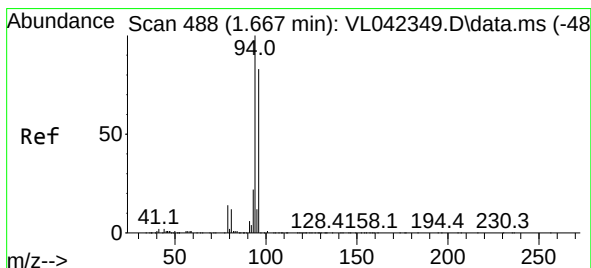
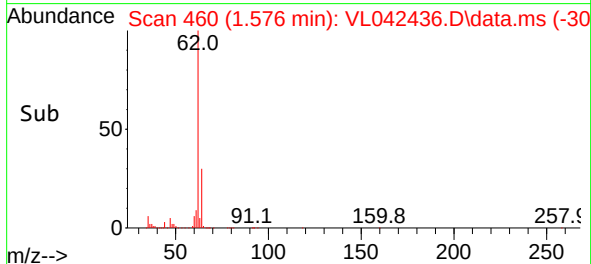
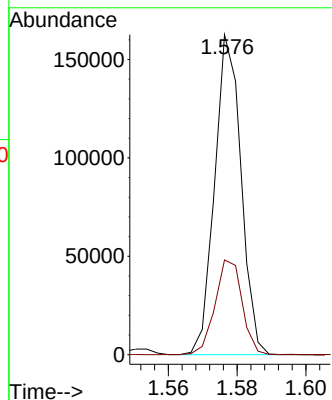
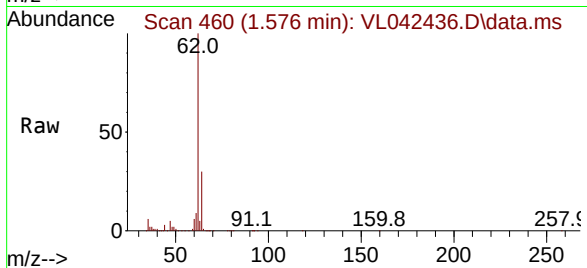




#5
 Vinyl Chloride
 Concen: 9.933 ppbv
 RT: 1.576 min Scan# 460
 Delta R.T. -0.003 min
 Lab File: VL042436.D
 Acq: 29 Apr 2025 08:39

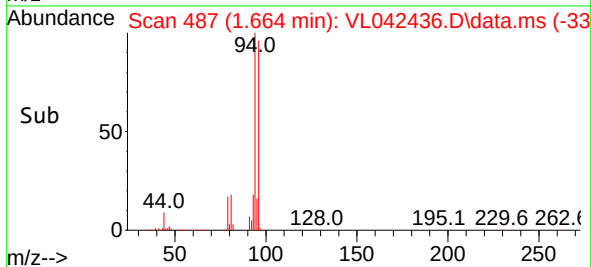
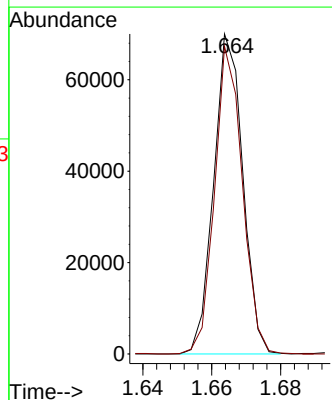
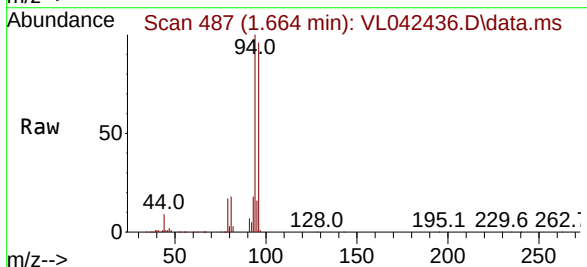
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010

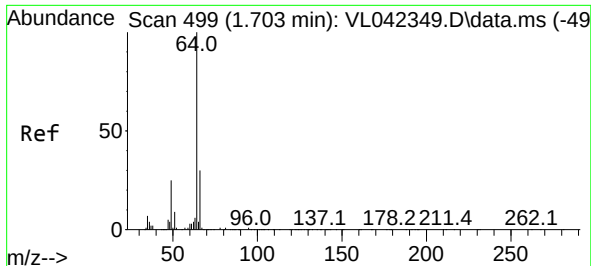
Tgt Ion: 62 Resp: 86603
 Ion Ratio Lower Upper
 62 100
 64 29.6 25.4 38.0



#6
 Bromomethane
 Concen: 10.952 ppbv
 RT: 1.664 min Scan# 487
 Delta R.T. -0.003 min
 Lab File: VL042436.D
 Acq: 29 Apr 2025 08:39

Tgt Ion: 94 Resp: 41020
 Ion Ratio Lower Upper
 94 100
 96 95.9 66.2 99.2

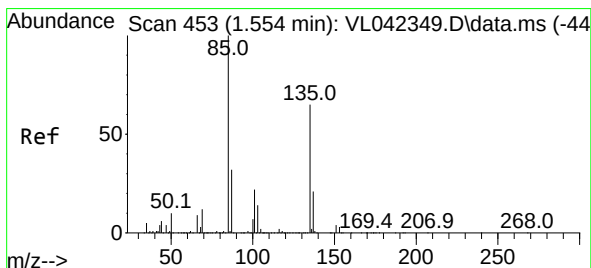
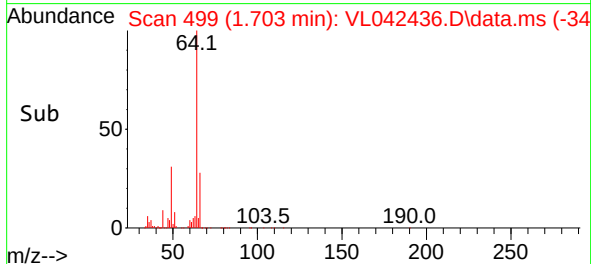
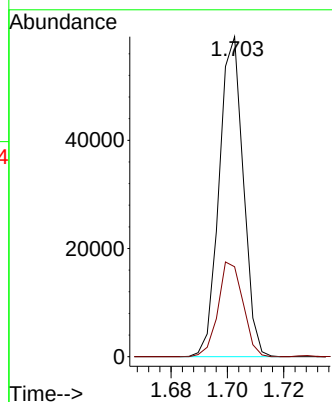
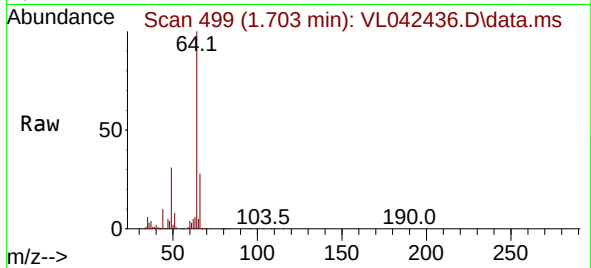




#7
Chloroethane
Concen: 11.153 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

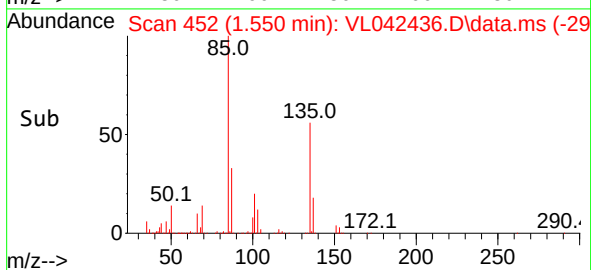
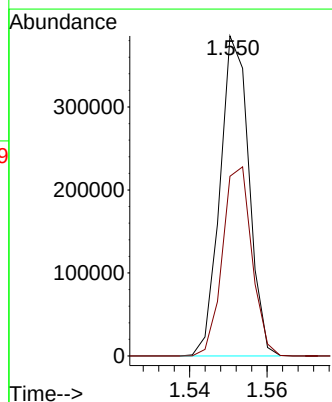
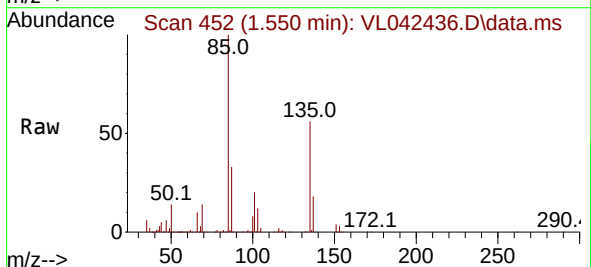
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

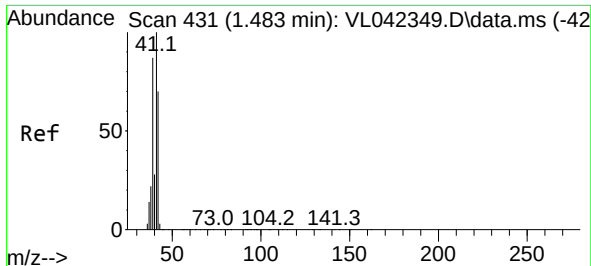
Tgt Ion: 64 Resp: 35167
Ion Ratio Lower Upper
64 100
66 28.1 24.6 37.0



#8
Dichlorotetrafluoroethane
Concen: 11.508 ppbv
RT: 1.550 min Scan# 452
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 85 Resp: 199977
Ion Ratio Lower Upper
85 100
135 60.1 52.2 78.2





#9

Propene

Concen: 7.883 ppbv

RT: 1.482 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042436.D

Acq: 29 Apr 2025 08:39

Instrument :

MSVOA_L

ClientSampleId :

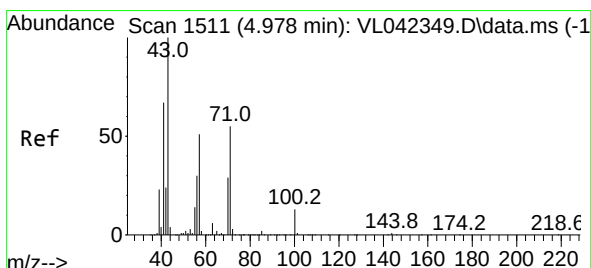
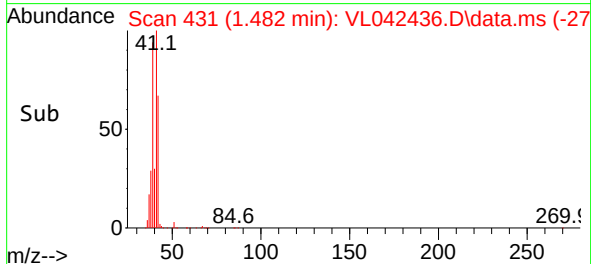
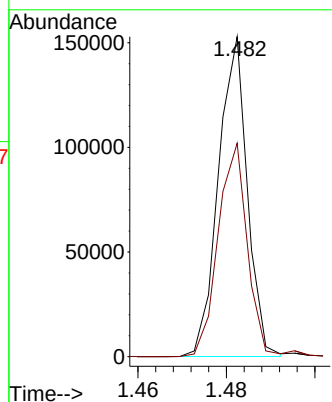
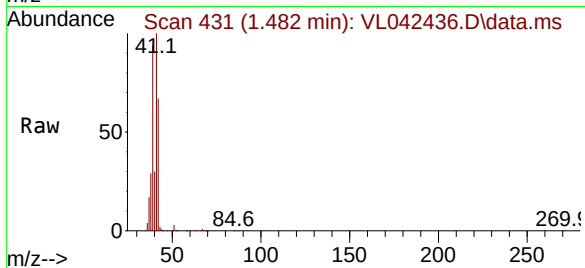
VSTDCCC010

Tgt Ion: 41 Resp: 69189

Ion Ratio Lower Upper

41 100

42 68.7 56.2 84.4



#10

Heptane

Concen: 7.492 ppbv

RT: 4.968 min Scan# 1508

Delta R.T. -0.010 min

Lab File: VL042436.D

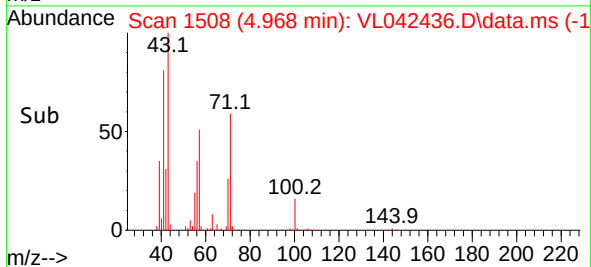
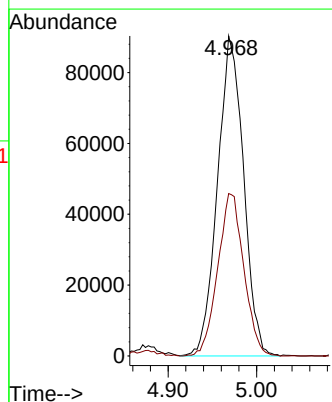
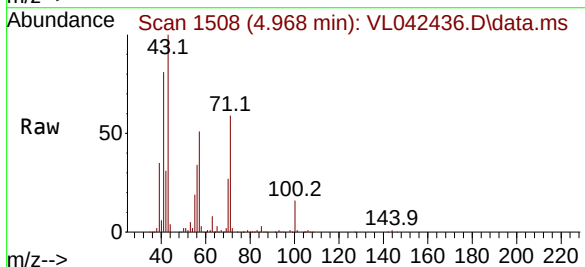
Acq: 29 Apr 2025 08:39

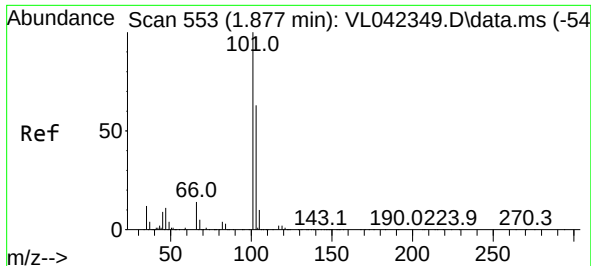
Tgt Ion: 43 Resp: 184737

Ion Ratio Lower Upper

43 100

57 50.9 39.9 59.9

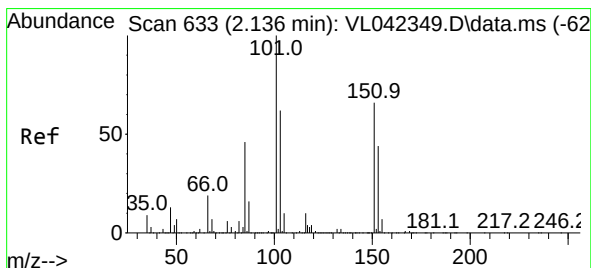
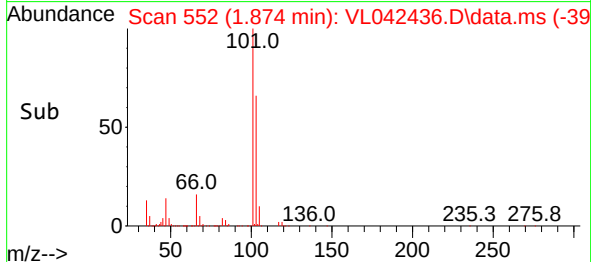
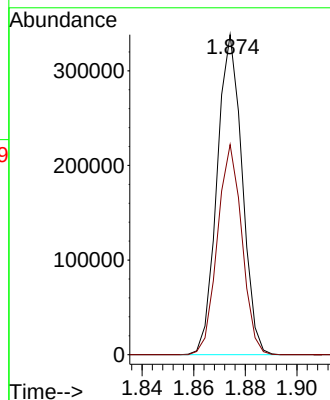
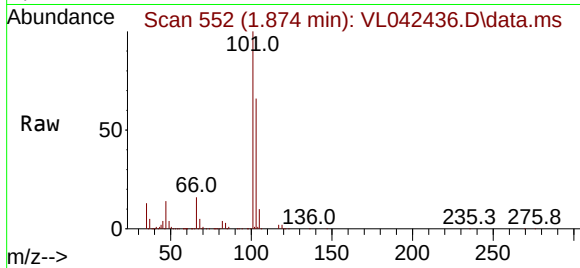




#11
Trichlorofluoromethane
Concen: 11.845 ppbv
RT: 1.874 min Scan# 511
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

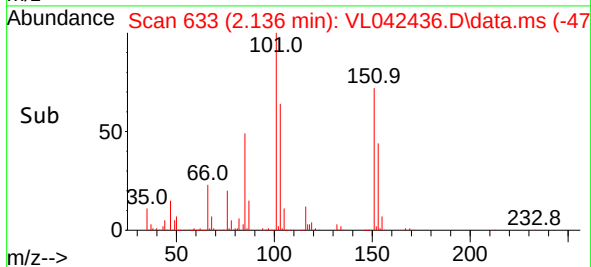
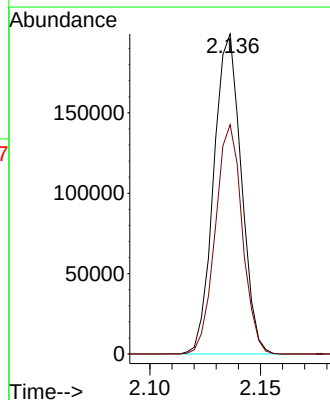
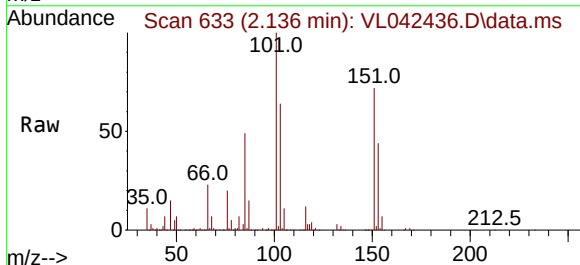
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

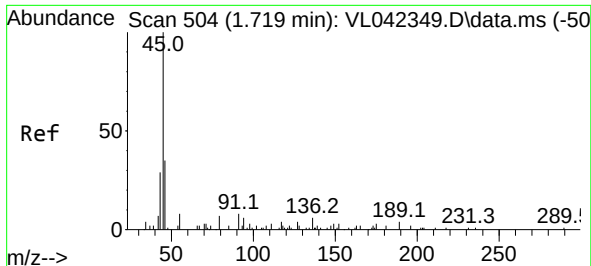
Tgt Ion:101 Resp: 227979
Ion Ratio Lower Upper
101 100
103 65.6 50.1 75.1



#12
1,1,2-Trichlorotrifluoroethane
Concen: 10.934 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.000 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion:101 Resp: 172070
Ion Ratio Lower Upper
101 100
151 70.1 57.0 85.6

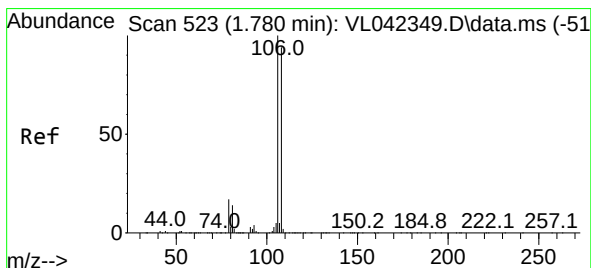
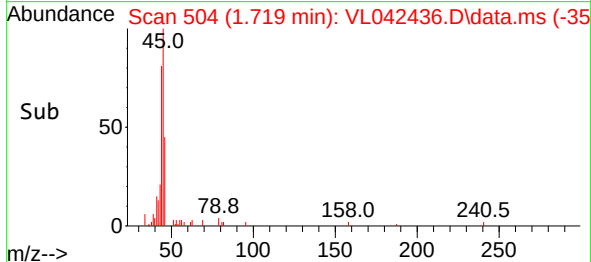
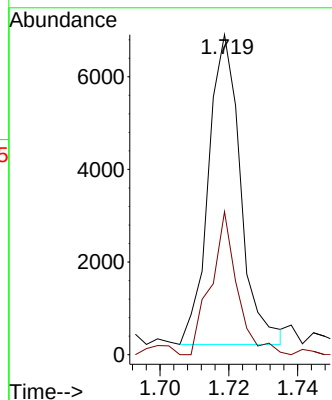
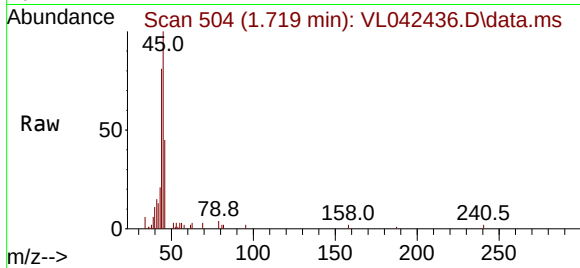




#13
Ethanol
Concen: 3.108 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

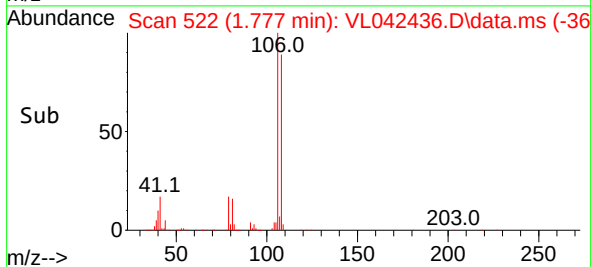
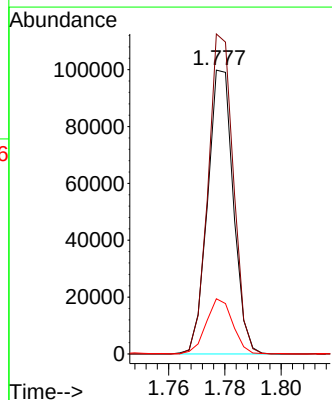
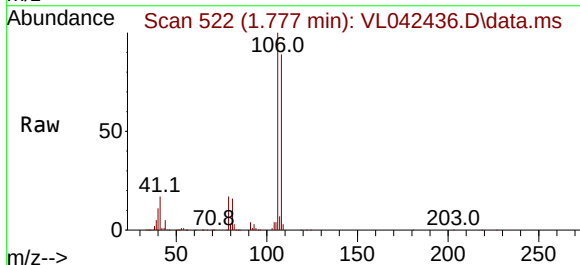
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

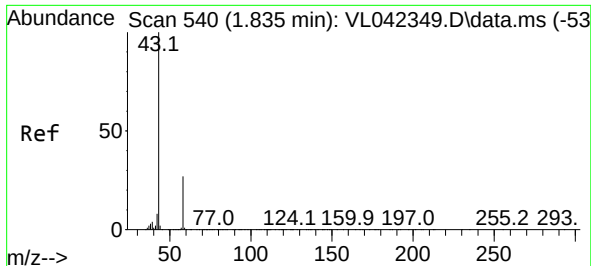
Tgt Ion: 45 Resp: 4336
Ion Ratio Lower Upper
45 100
46 41.1 21.9 87.7



#14
Bromoethene
Concen: 10.721 ppbv
RT: 1.777 min Scan# 522
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 108 Resp: 63597
Ion Ratio Lower Upper
108 100
106 110.4 85.9 128.9
79 20.1 13.9 20.9

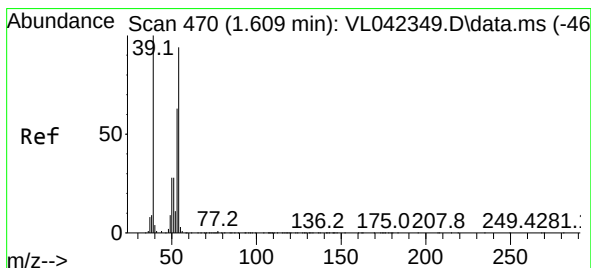
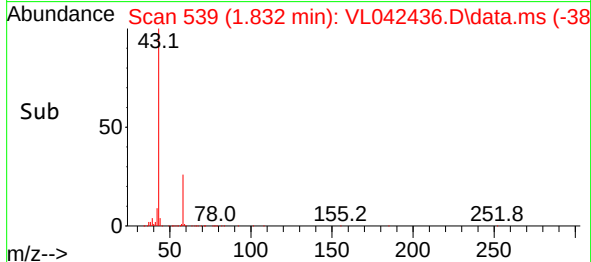
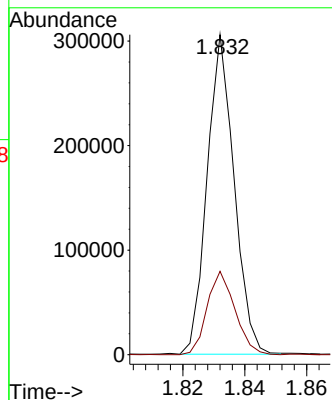
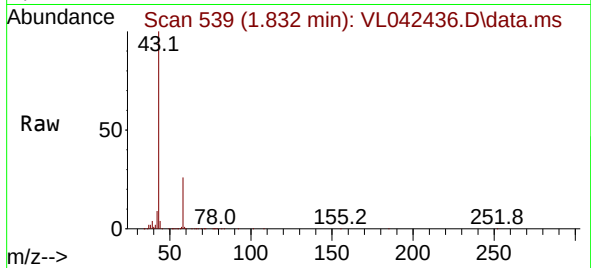




#15
Acetone
Concen: 9.859 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

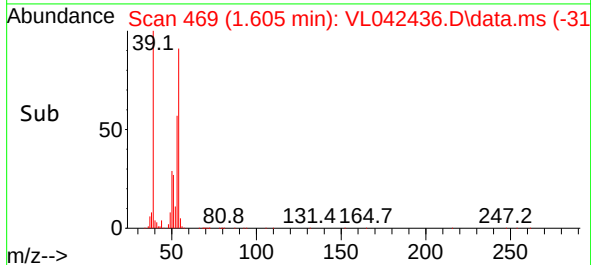
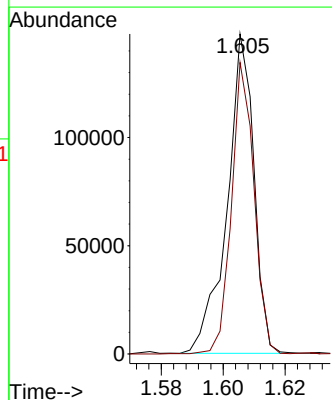
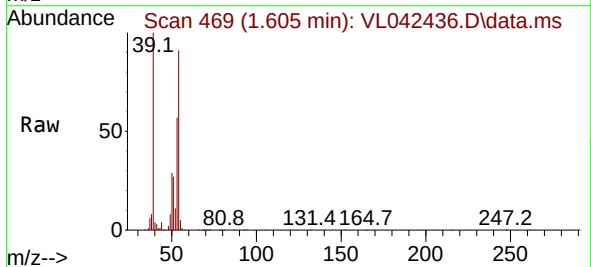
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

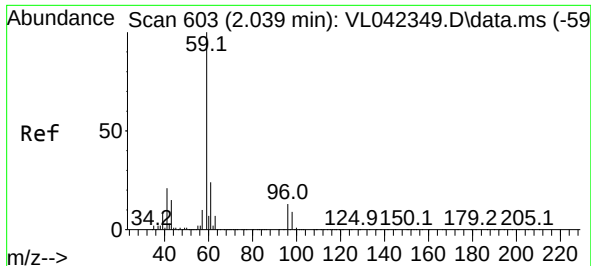
Tgt Ion: 43 Resp: 184887
Ion Ratio Lower Upper
43 100
58 27.0 22.4 33.6



#16
1,3-Butadiene
Concen: 9.910 ppbv
RT: 1.605 min Scan# 469
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 39 Resp: 88889
Ion Ratio Lower Upper
39 100
54 76.7 64.9 97.3





#17

tert-Butyl alcohol

Concen: 9.881 ppbv

RT: 2.036 min Scan# 603

Delta R.T. -0.003 min

Lab File: VL042436.D

Acq: 29 Apr 2025 08:39

Instrument :

MSVOA_1

ClientSampleId :

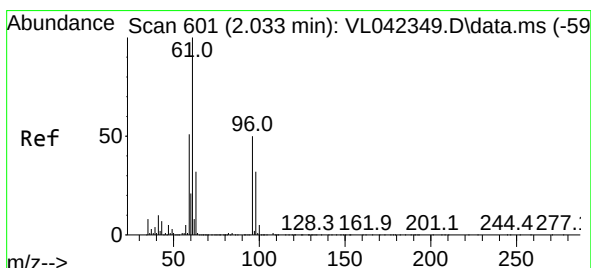
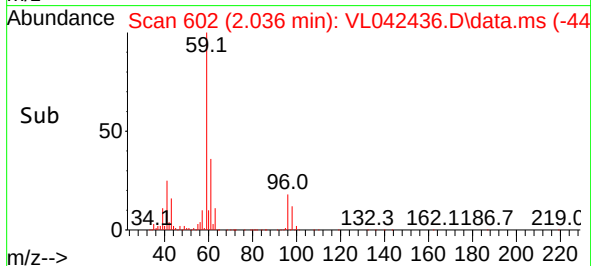
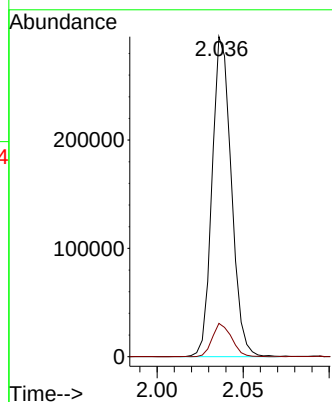
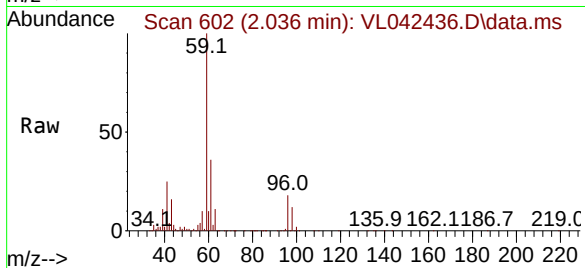
VSTDCCC010

Tgt Ion: 59 Resp: 229627

Ion Ratio Lower Upper

59 100

57 10.4 8.7 13.1



#18

1,1-Dichloroethene

Concen: 10.263 ppbv

RT: 2.029 min Scan# 600

Delta R.T. -0.003 min

Lab File: VL042436.D

Acq: 29 Apr 2025 08:39

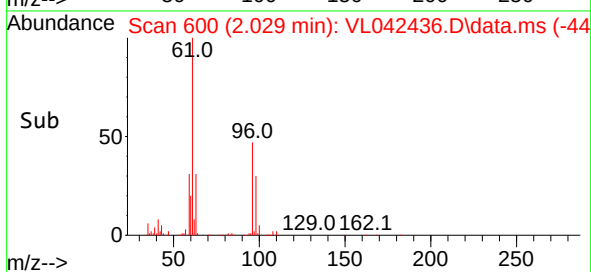
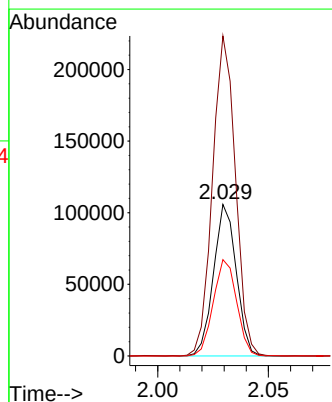
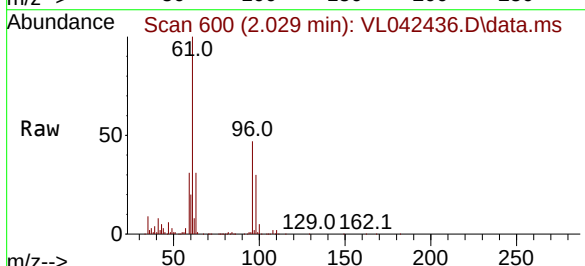
Tgt Ion: 96 Resp: 75451

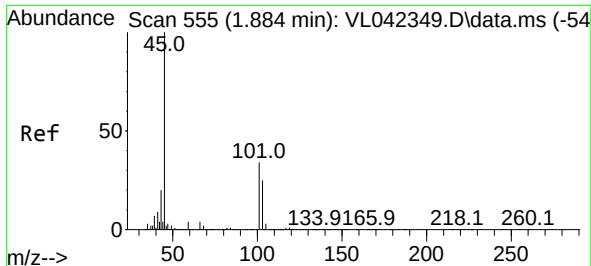
Ion Ratio Lower Upper

96 100

61 211.2 160.2 240.2

98 63.6 51.0 76.4

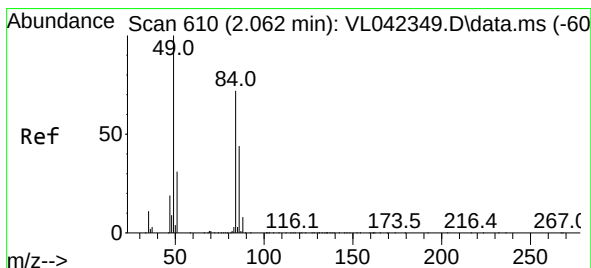
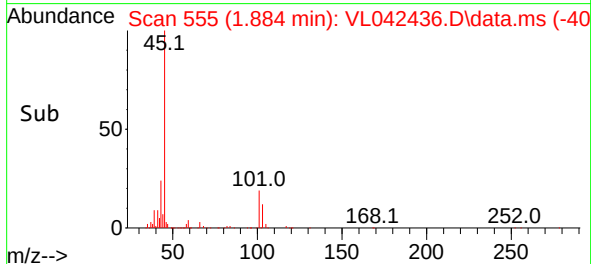
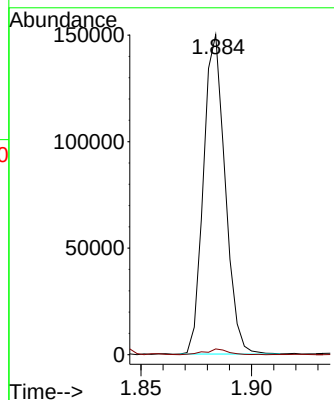
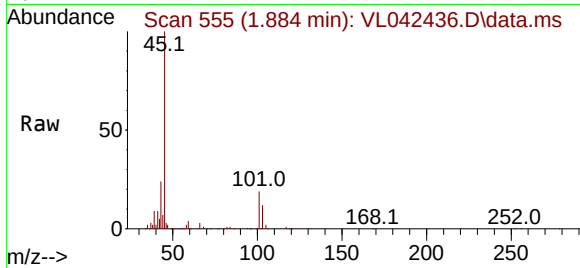




#19
Isopropyl Alcohol
Concen: 9.790 ppbv
RT: 1.884 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

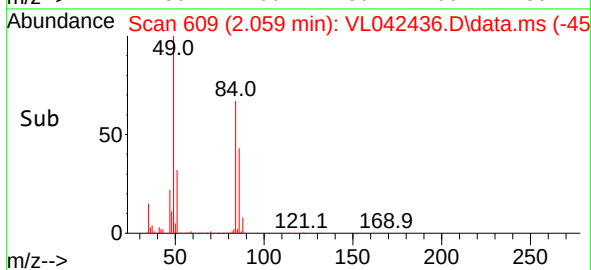
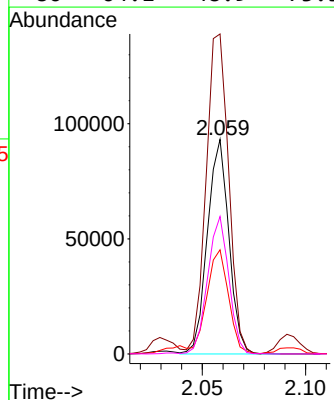
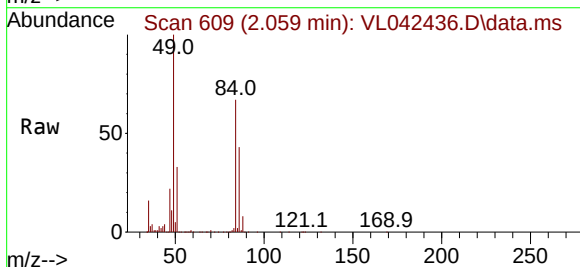
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

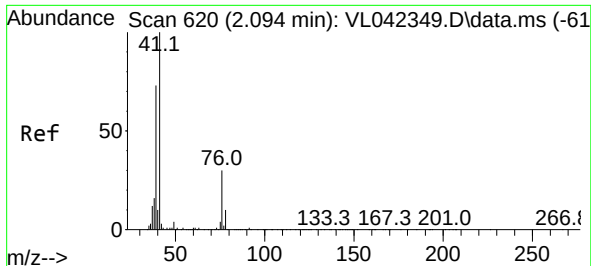
Tgt Ion: 45 Resp: 101987
Ion Ratio Lower Upper
45 100
58 49.0 34.5 51.7



#20
Methylene Chloride
Concen: 9.161 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 84 Resp: 67278
Ion Ratio Lower Upper
84 100
49 146.9 111.6 167.4
51 45.9 35.1 52.7
86 64.1 48.9 73.3

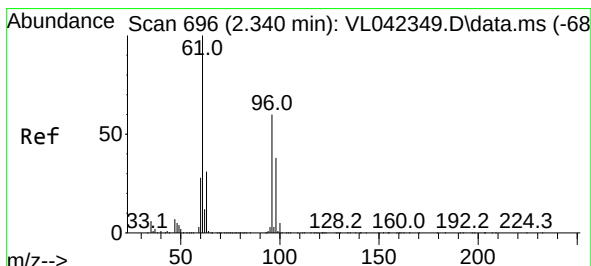
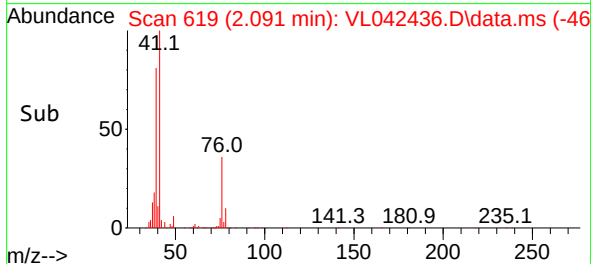
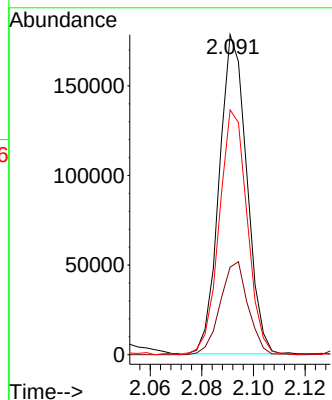
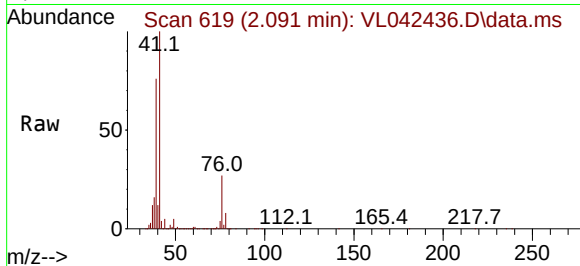




#21
 Allyl Chloride
 Concen: 10.184 ppbv
 RT: 2.091 min Scan# 619
 Delta R.T. -0.003 min
 Lab File: VL042436.D
 Acq: 29 Apr 2025 08:39

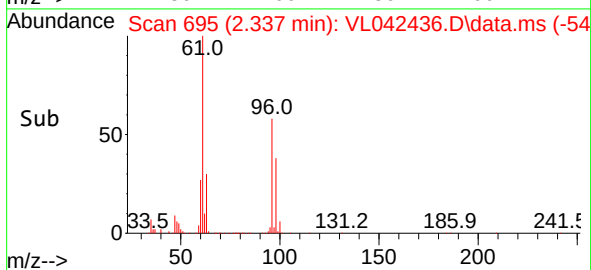
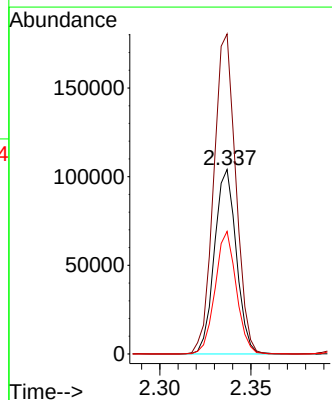
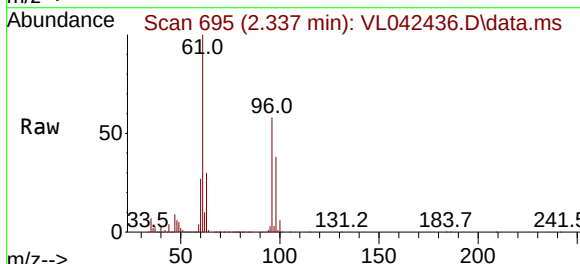
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

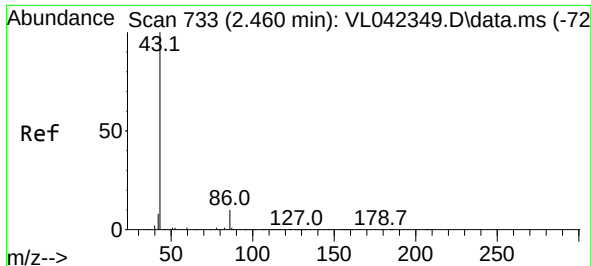
Tgt Ion: 41 Resp: 131864
 Ion Ratio Lower Upper
 41 100
 76 29.4 24.8 37.2
 39 77.4 60.6 90.8



#22
 trans-1,2-Dichloroethene
 Concen: 10.343 ppbv
 RT: 2.337 min Scan# 695
 Delta R.T. -0.003 min
 Lab File: VL042436.D
 Acq: 29 Apr 2025 08:39

Tgt Ion: 96 Resp: 86577
 Ion Ratio Lower Upper
 96 100
 61 173.4 133.7 200.5
 98 66.4 50.3 75.5

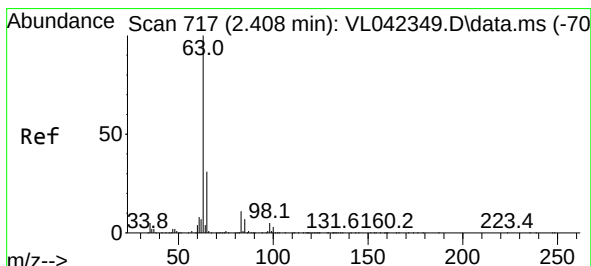
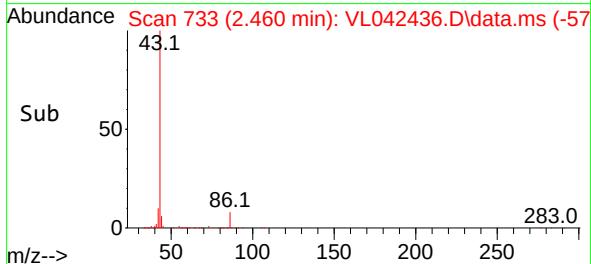
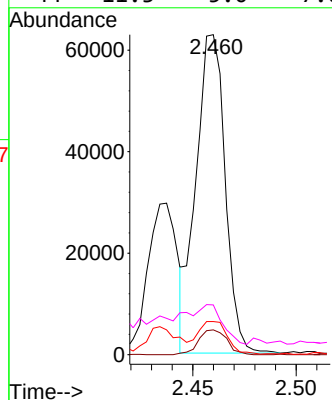
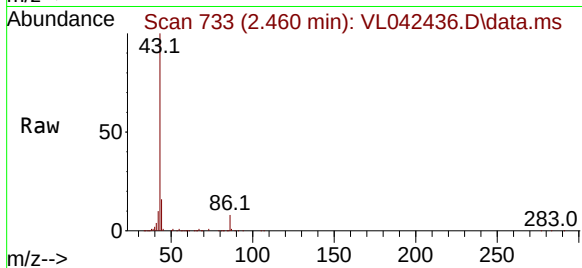




#23
 Vinyl Acetate
 Concen: 8.115 ppbv
 RT: 2.460 min Scan# 716
 Delta R.T. -0.000 min
 Lab File: VL042436.D
 Acq: 29 Apr 2025 08:39

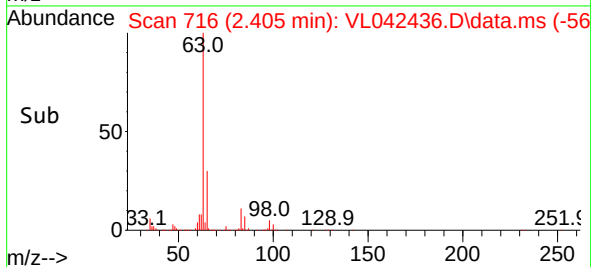
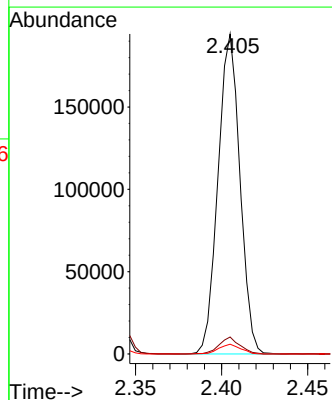
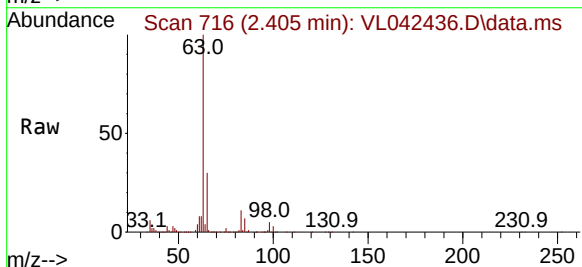
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010

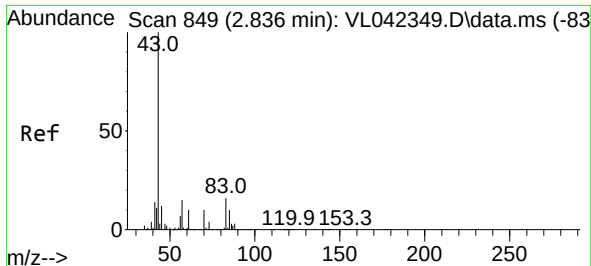
Tgt Ion: 43	Resp: 61601
Ion Ratio	Lower Upper
43 100	
86 7.6	6.5 9.7
42 10.2	7.8 11.8
44 11.3	5.0 7.6#



#24
 1,1-Dichloroethane
 Concen: 10.852 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. -0.003 min
 Lab File: VL042436.D
 Acq: 29 Apr 2025 08:39

Tgt Ion: 63	Resp: 172555
Ion Ratio	Lower Upper
63 100	
98 5.3	2.3 6.8
100 3.0	1.6 4.8



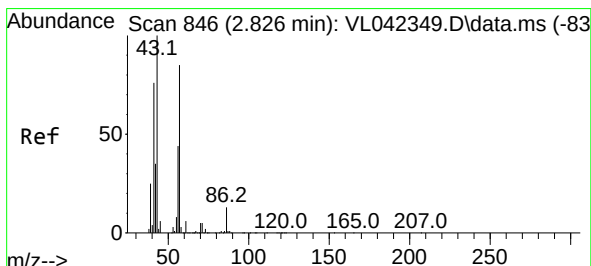
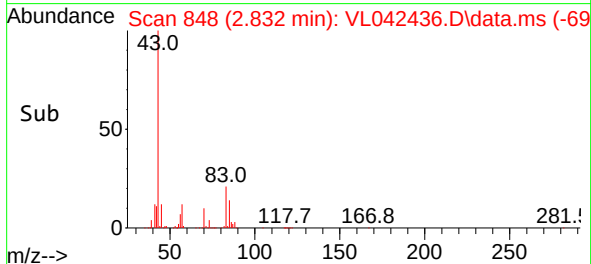
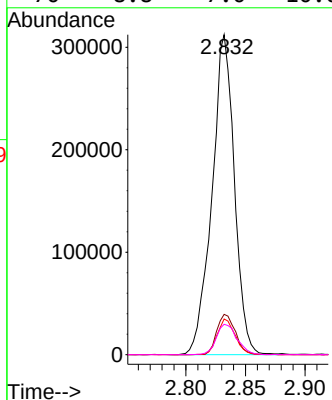
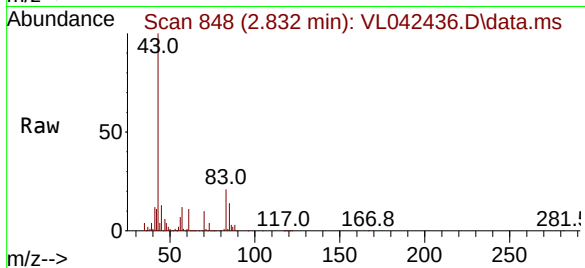


#25
Ethyl Acetate
Concen: 8.840 ppbv
RT: 2.832 min Scan# 844
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 43 Resp: 408744

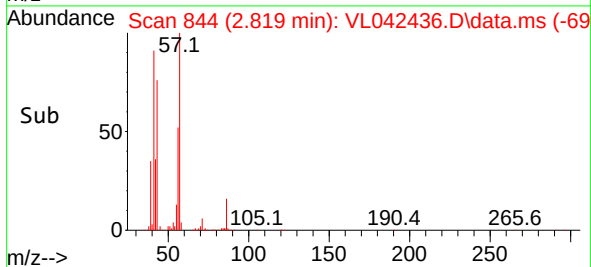
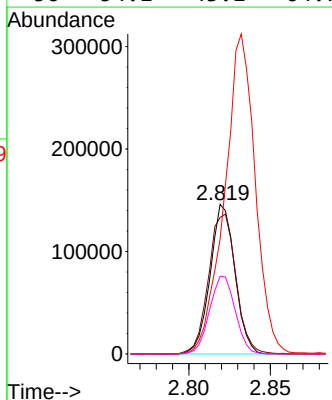
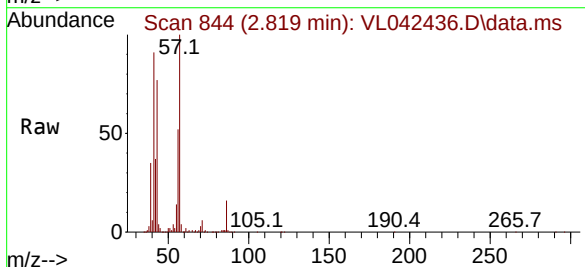
Ion	Ratio	Lower	Upper
43	100		
45	10.5	8.3	12.5
61	8.9	7.3	10.9
70	8.8	7.0	10.6

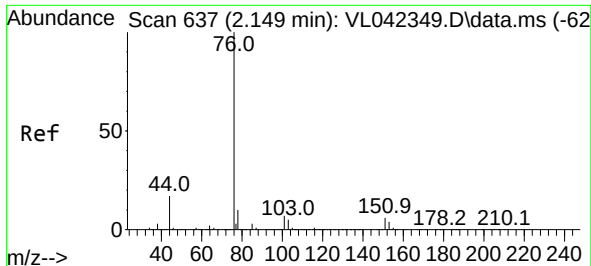


#26
Hexane
Concen: 8.220 ppbv
RT: 2.819 min Scan# 844
Delta R.T. -0.007 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 57 Resp: 153801

Ion	Ratio	Lower	Upper
57	100		
41	104.3	77.9	116.9
43	266.3	208.4	312.6
56	54.1	43.1	64.7

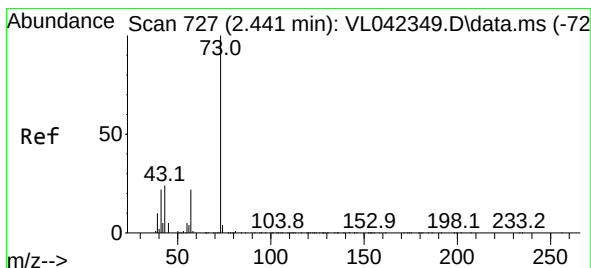
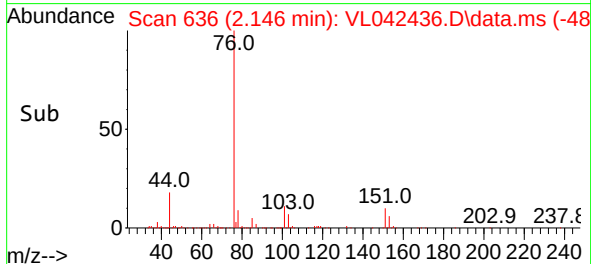
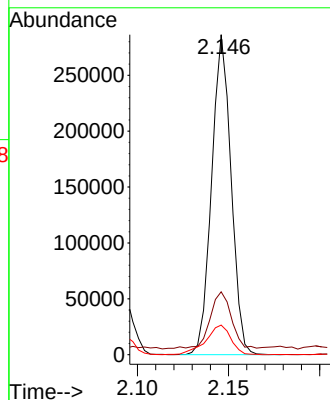
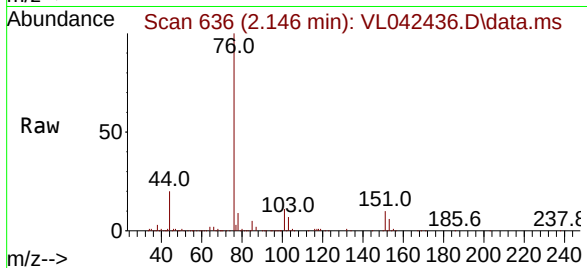




#27
Carbon Disulfide
Concen: 10.622 ppbv
RT: 2.146 min Scan# 61
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

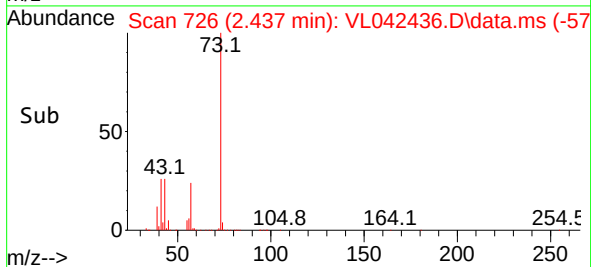
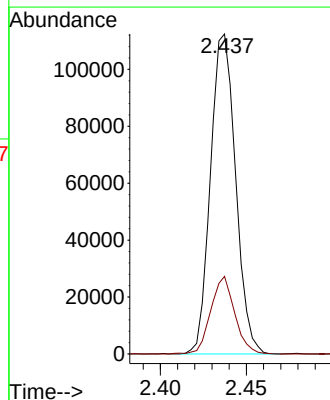
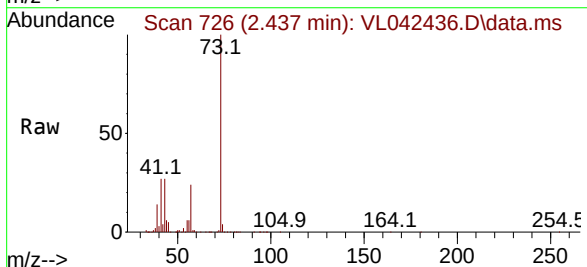
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

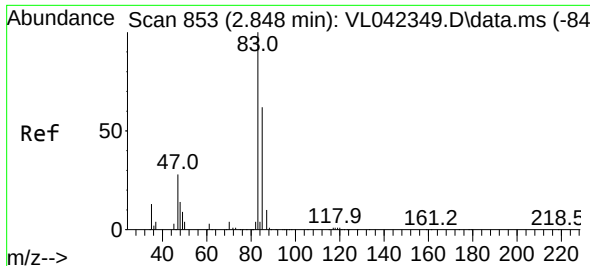
Tgt Ion: 76 Resp: 212793
Ion Ratio Lower Upper
76 100
44 18.9 15.5 23.3
78 11.9 9.3 13.9



#28
Methyl tert-Butyl Ether
Concen: 9.308 ppbv
RT: 2.437 min Scan# 726
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 73 Resp: 114108
Ion Ratio Lower Upper
73 100
57 23.1 21.3 31.9





#29

Chloroform

Concen: 11.002 ppbv

RT: 2.845 min Scan# 81

Delta R.T. -0.003 min

Lab File: VL042436.D

Acq: 29 Apr 2025 08:39

Instrument :

MSVOA_L

ClientSampleId :

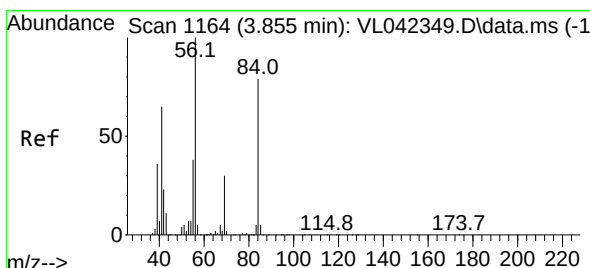
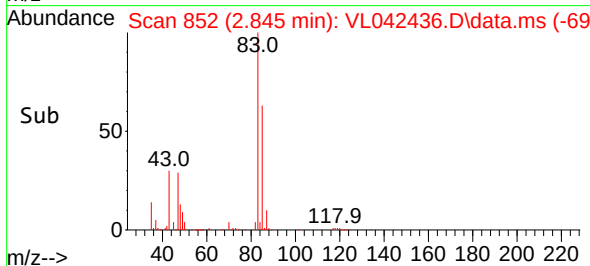
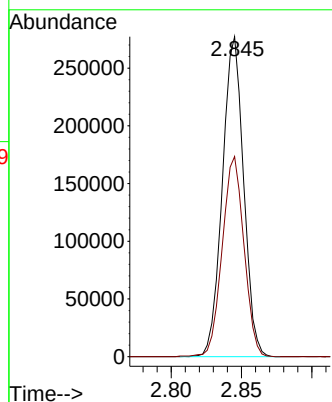
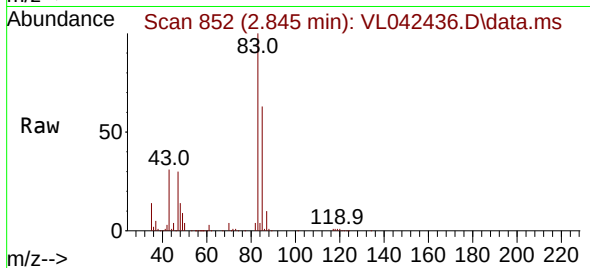
VSTDCCC010

Tgt Ion: 83 Resp: 290965

Ion Ratio Lower Upper

83 100

85 62.6 50.0 75.0



#30

Cyclohexane

Concen: 8.635 ppbv

RT: 3.848 min Scan# 1162

Delta R.T. -0.007 min

Lab File: VL042436.D

Acq: 29 Apr 2025 08:39

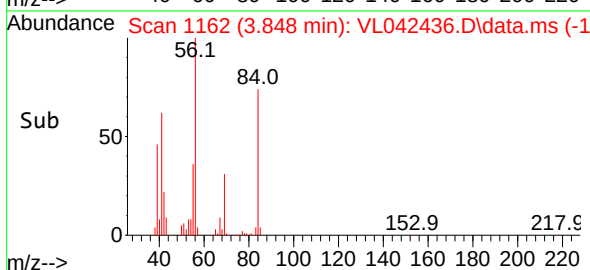
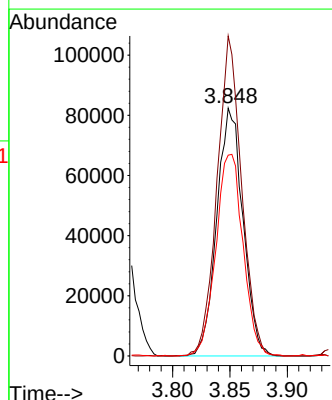
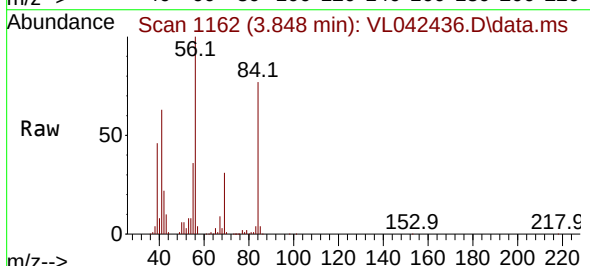
Tgt Ion: 84 Resp: 130608

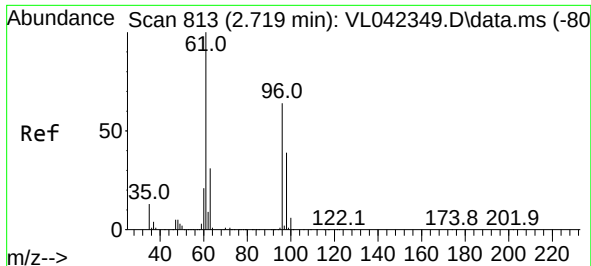
Ion Ratio Lower Upper

84 100

56 121.2 101.0 151.4

41 84.8 67.4 101.0

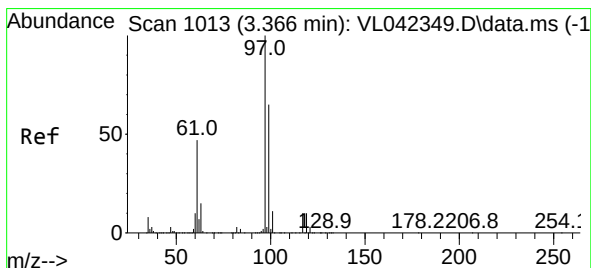
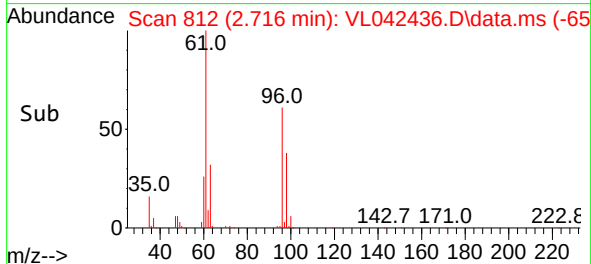
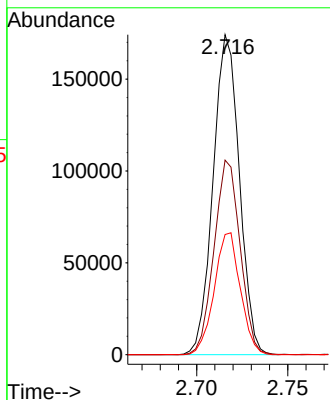
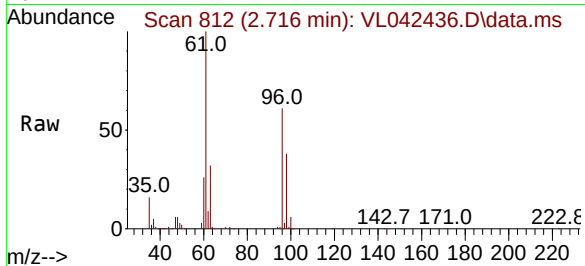




#31
 cis-1,2-Dichloroethene
 Concen: 9.818 ppbv
 RT: 2.716 min Scan# 81
 Delta R.T. -0.003 min
 Lab File: VL042436.D
 Acq: 29 Apr 2025 08:39

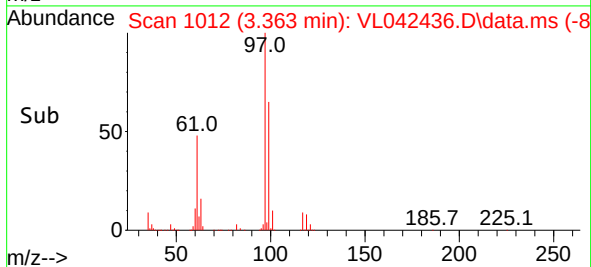
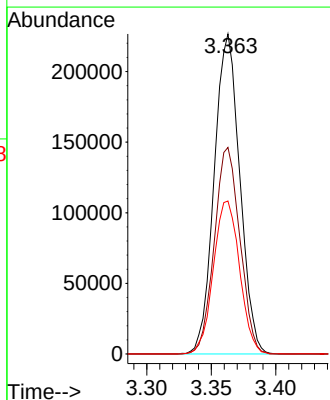
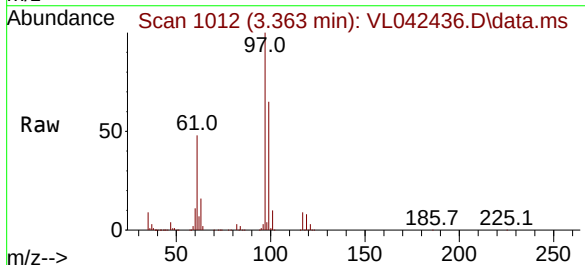
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

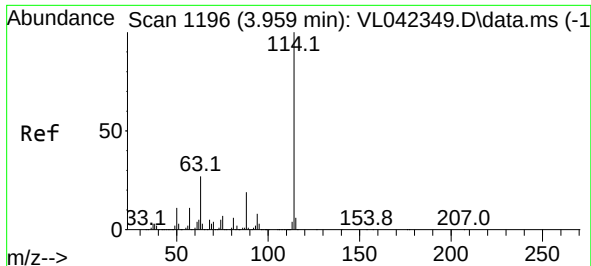
Tgt Ion: 61 Resp: 174659
 Ion Ratio Lower Upper
 61 100
 96 60.8 50.8 76.2
 98 37.6 30.9 46.3



#32
 1,1,1-Trichloroethane
 Concen: 10.493 ppbv
 RT: 3.363 min Scan# 1012
 Delta R.T. -0.003 min
 Lab File: VL042436.D
 Acq: 29 Apr 2025 08:39

Tgt Ion: 97 Resp: 312430
 Ion Ratio Lower Upper
 97 100
 99 64.5 51.0 76.4
 61 49.1 38.8 58.2

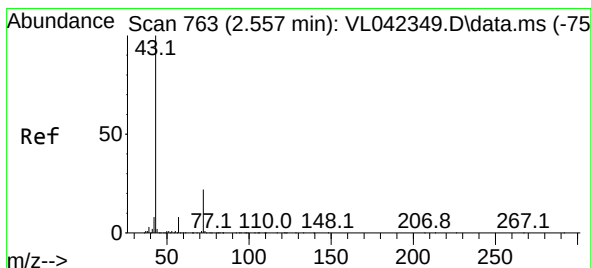
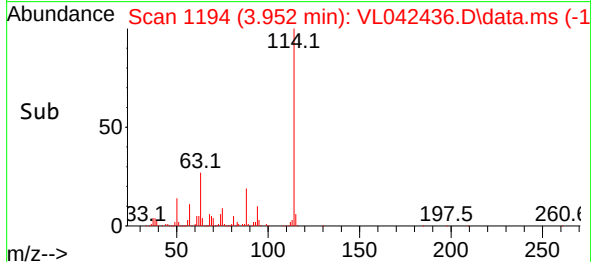
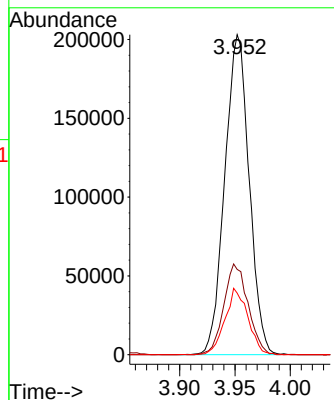
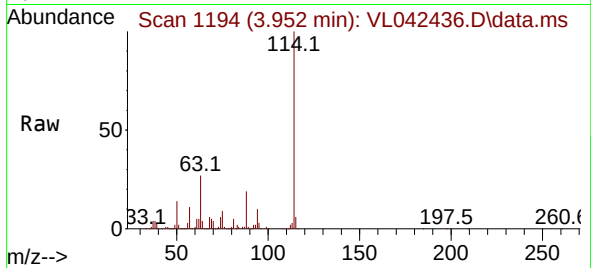




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.952 min Scan# 1194
 Delta R.T. -0.007 min
 Lab File: VL042436.D
 Acq: 29 Apr 2025 08:39

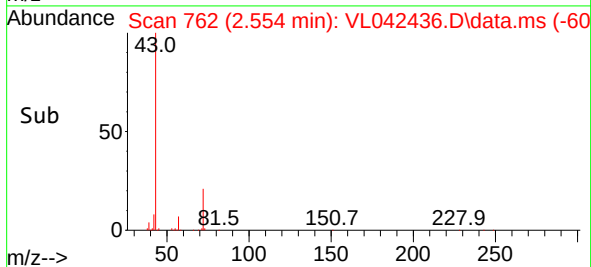
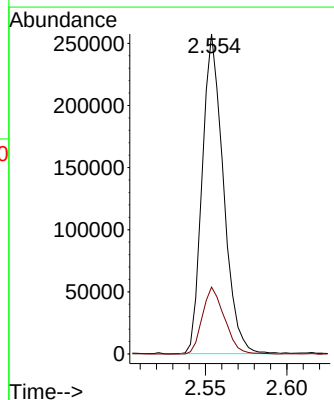
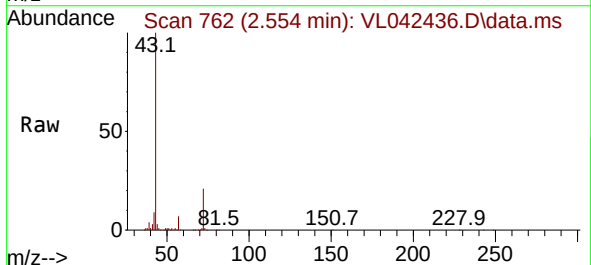
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010

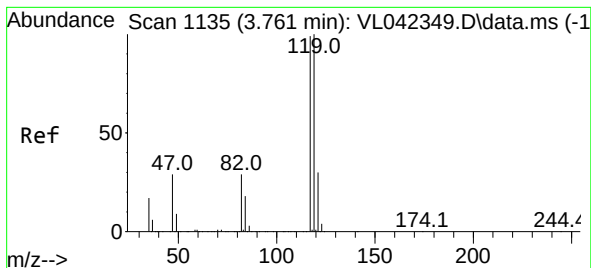
Tgt Ion:114 Resp: 311268
 Ion Ratio Lower Upper
 114 100
 63 28.3 21.8 32.6
 88 19.5 15.5 23.3



#34
 2-Butanone
 Concen: 9.426 ppbv
 RT: 2.554 min Scan# 762
 Delta R.T. -0.003 min
 Lab File: VL042436.D
 Acq: 29 Apr 2025 08:39

Tgt Ion: 43 Resp: 232034
 Ion Ratio Lower Upper
 43 100
 72 21.8 18.2 27.2





#35

Carbon Tetrachloride

Concen: 11.242 ppbv

RT: 3.755 min Scan# 1133

Delta R.T. -0.007 min

Lab File: VL042436.D

Acq: 29 Apr 2025 08:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

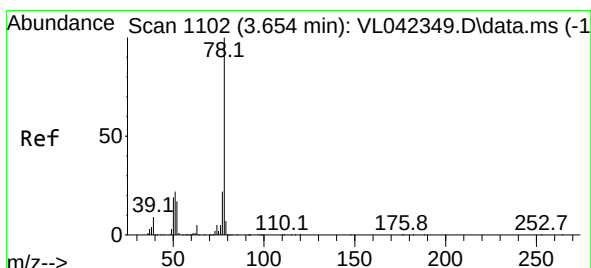
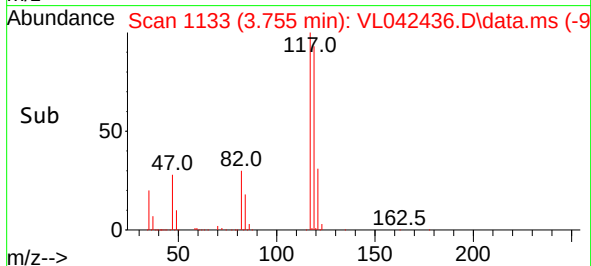
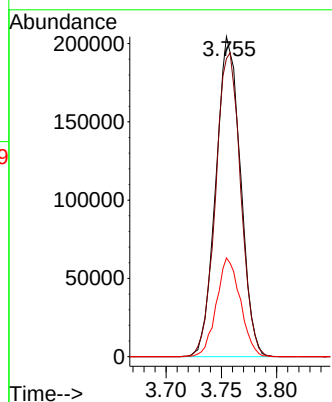
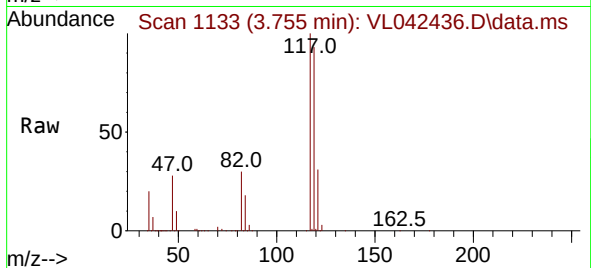
Tgt Ion:117 Resp: 316689

Ion Ratio Lower Upper

117 100

119 93.1 80.5 120.7

121 30.9 24.2 36.2



#36

Benzene

Concen: 9.367 ppbv

RT: 3.651 min Scan# 1101

Delta R.T. -0.003 min

Lab File: VL042436.D

Acq: 29 Apr 2025 08:39

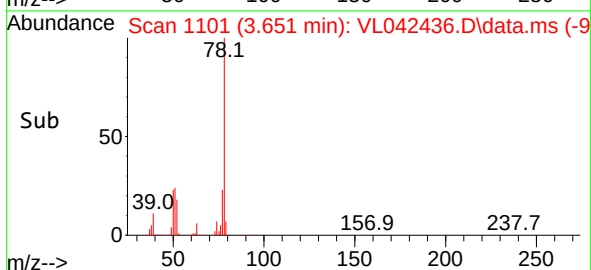
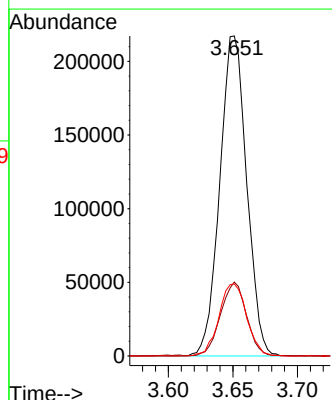
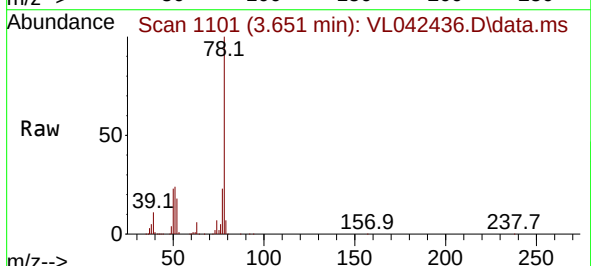
Tgt Ion: 78 Resp: 314493

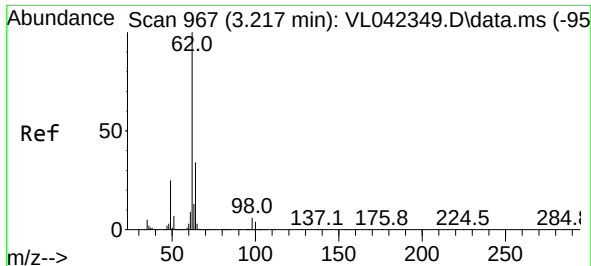
Ion Ratio Lower Upper

78 100

77 23.1 17.4 26.0

50 22.6 15.5 23.3





#37

1,2-Dichloroethane

Concen: 12.134 ppbv

RT: 3.214 min Scan# 9

Delta R.T. -0.003 min

Lab File: VL042436.D

Acq: 29 Apr 2025 08:39

Instrument :

MSVOA_L

ClientSampleId :

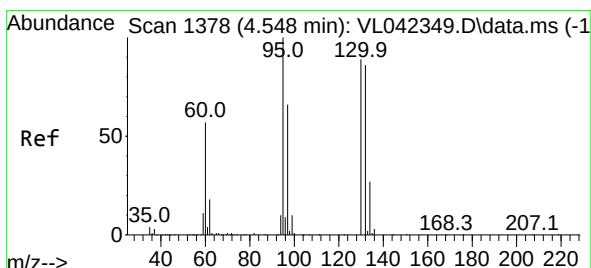
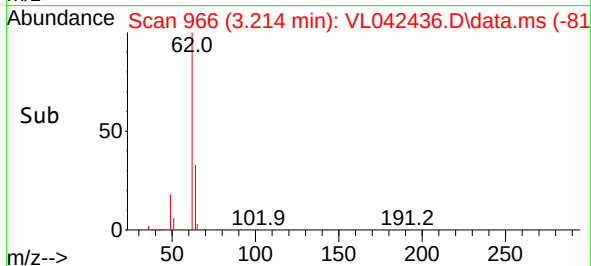
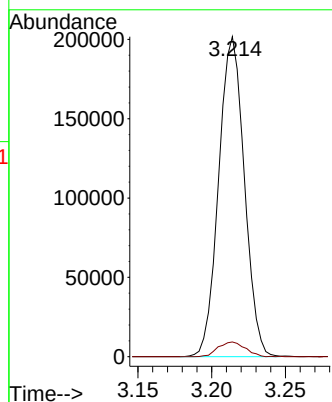
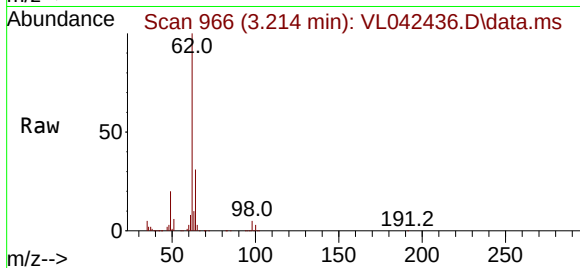
VSTDCCC010

Tgt Ion: 62 Resp: 244516

Ion Ratio Lower Upper

62 100

98 4.9 5.1 7.7#



#38

Trichloroethene

Concen: 8.450 ppbv

RT: 4.541 min Scan# 1376

Delta R.T. -0.007 min

Lab File: VL042436.D

Acq: 29 Apr 2025 08:39

Tgt Ion:130 Resp: 123997

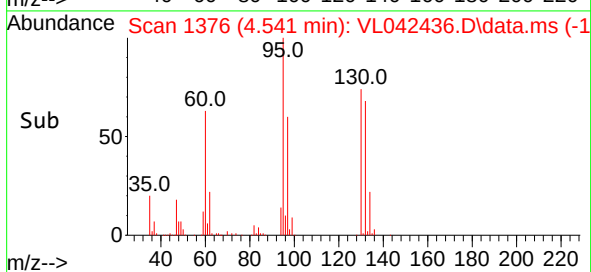
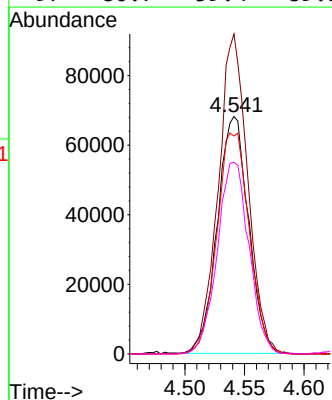
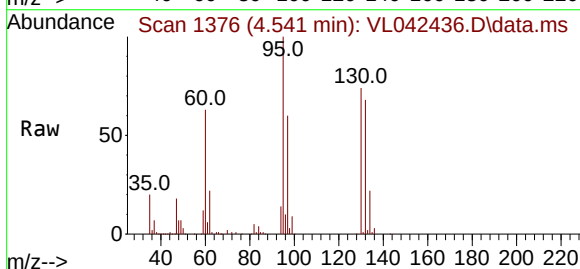
Ion Ratio Lower Upper

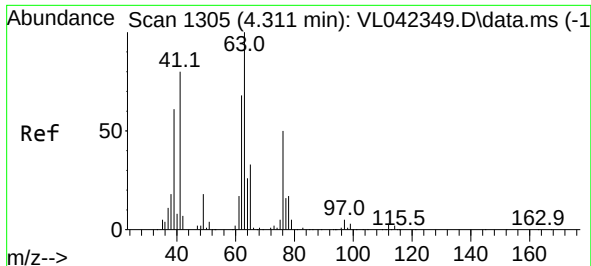
130 100

95 134.8 89.8 134.6#

132 92.0 77.7 116.5

97 80.7 59.4 89.2





#39

1,2-Dichloropropane

Concen: 8.817 ppbv

RT: 4.305 min Scan# 11

Delta R.T. -0.007 min

Lab File: VL042436.D

Acq: 29 Apr 2025 08:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

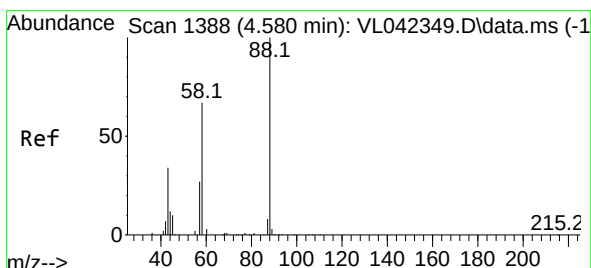
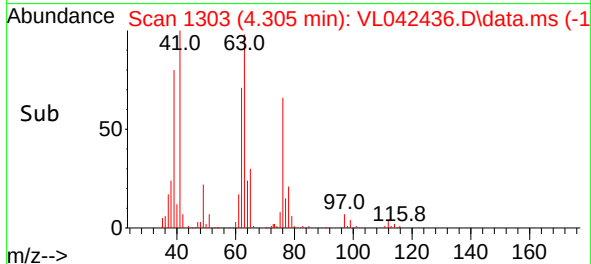
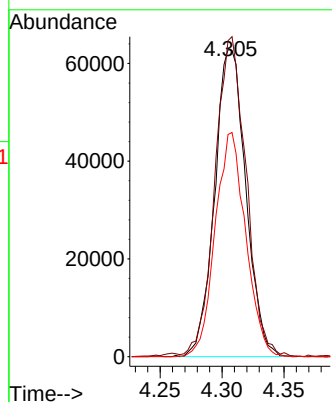
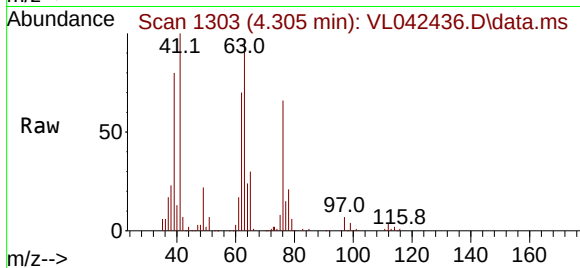
Tgt Ion: 63 Resp: 110315

Ion Ratio Lower Upper

63 100

41 102.2 64.2 96.2#

62 72.1 54.3 81.5



#40

1,4-Dioxane

Concen: 7.907 ppbv

RT: 4.577 min Scan# 1387

Delta R.T. -0.003 min

Lab File: VL042436.D

Acq: 29 Apr 2025 08:39

Tgt Ion: 88 Resp: 54364

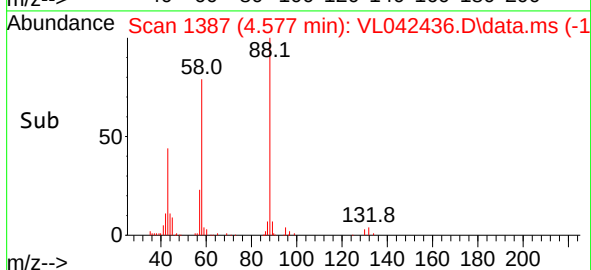
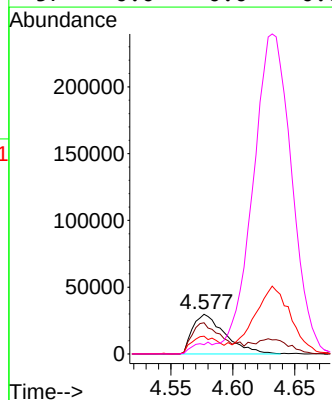
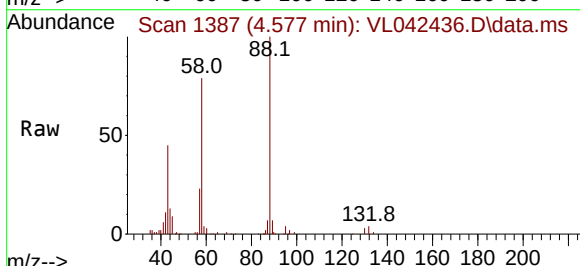
Ion Ratio Lower Upper

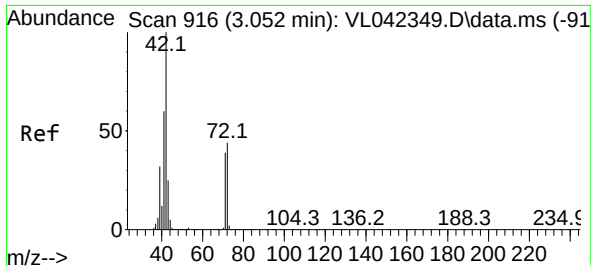
88 100

58 81.3 61.4 92.0

43 40.1 23.2 34.8#

57 0.0 0.0 0.0

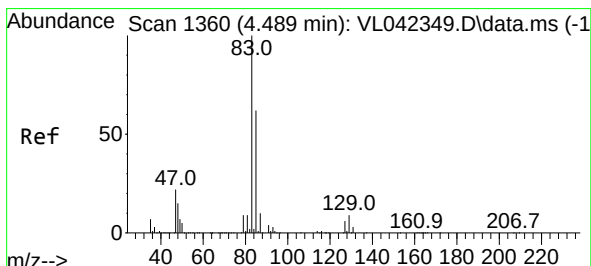
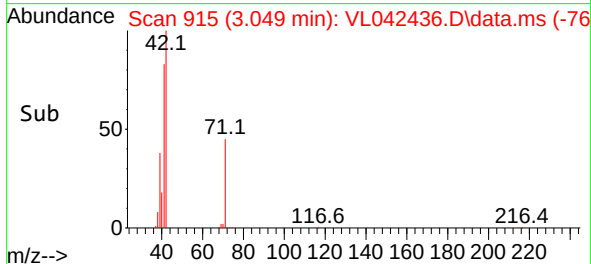
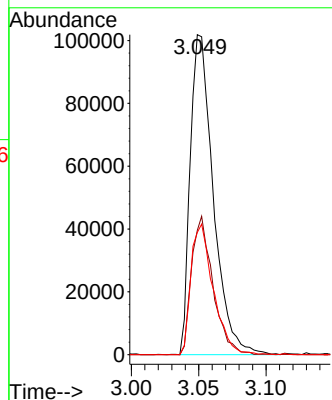
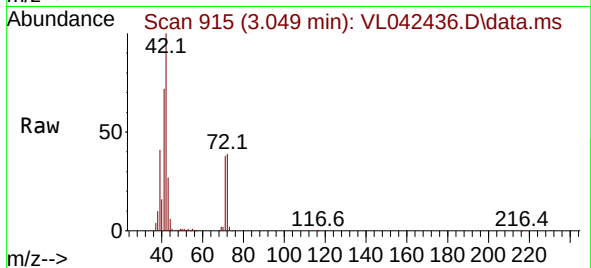




#41
Tetrahydrofuran
Concen: 8.479 ppbv
RT: 3.049 min Scan# 916
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

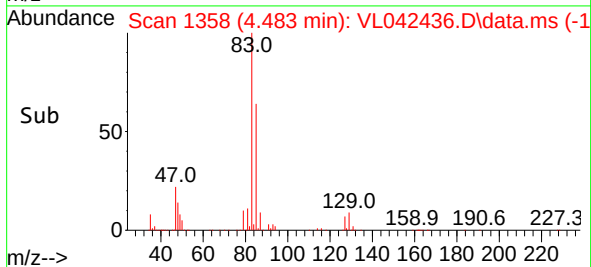
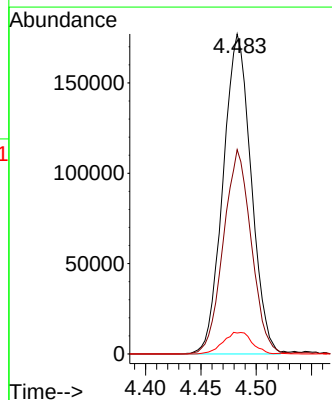
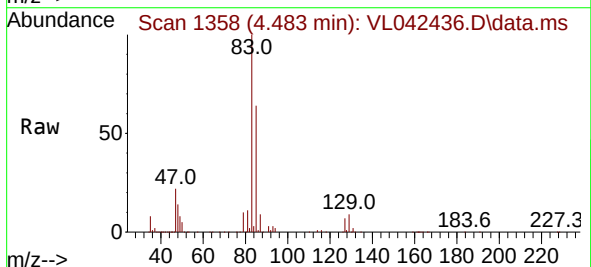
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

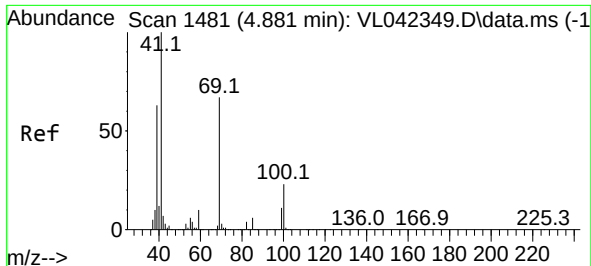
Tgt Ion: 42 Resp: 121700
Ion Ratio Lower Upper
42 100
72 40.2 32.3 48.5
71 39.5 31.4 47.2



#42
Bromodichloromethane
Concen: 11.127 ppbv
RT: 4.483 min Scan# 1358
Delta R.T. -0.007 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 83 Resp: 312029
Ion Ratio Lower Upper
83 100
85 63.8 49.7 74.5
127 6.6 5.1 7.7

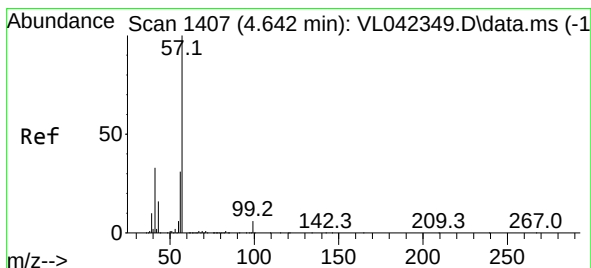
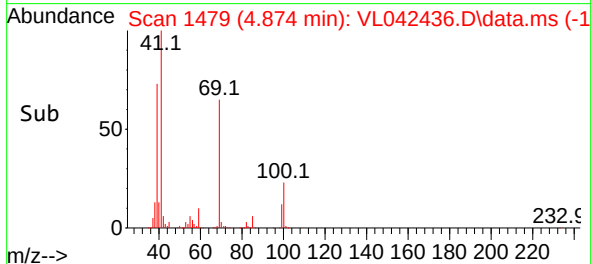
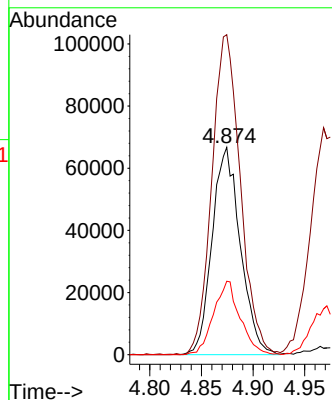
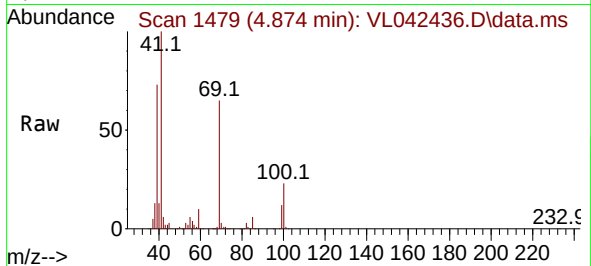




#43
Methyl Methacrylate
Concen: 8.367 ppbv
RT: 4.874 min Scan# 1479
Delta R.T. -0.007 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

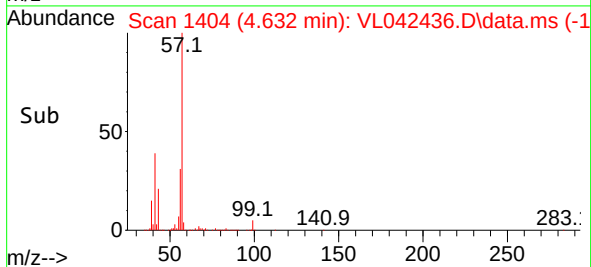
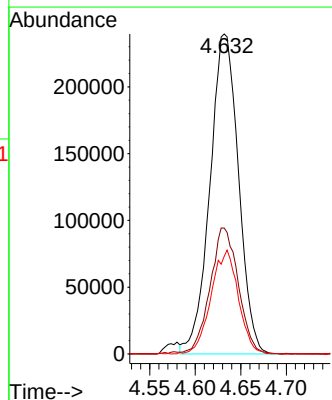
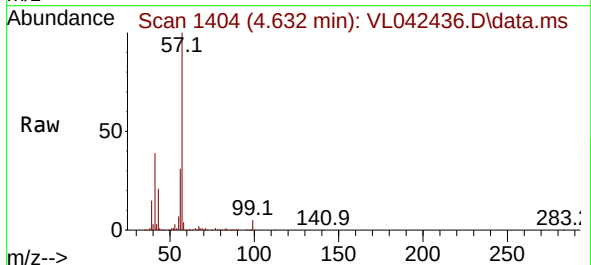
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

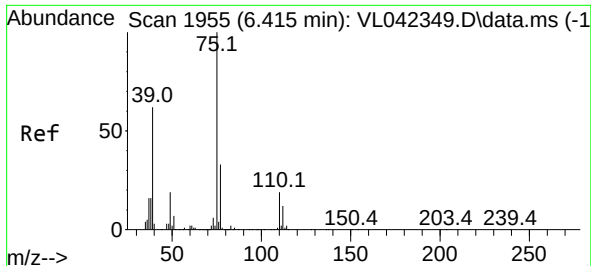
Tgt Ion: 69 Resp: 126594
Ion Ratio Lower Upper
69 100
41 156.3 118.6 177.8
100 33.3 28.2 42.2



#44
2,2,4-Trimethylpentane
Concen: 9.010 ppbv
RT: 4.632 min Scan# 1404
Delta R.T. -0.010 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 57 Resp: 522427
Ion Ratio Lower Upper
57 100
41 39.2 27.2 40.8
56 31.1 25.7 38.5

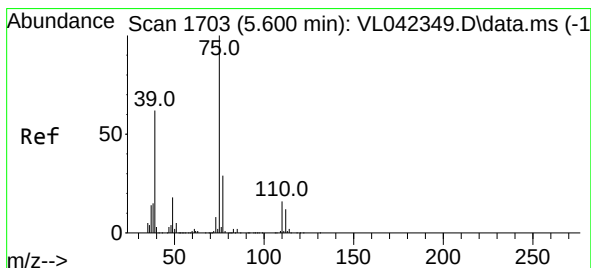
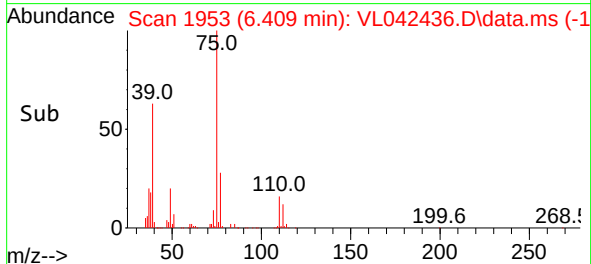
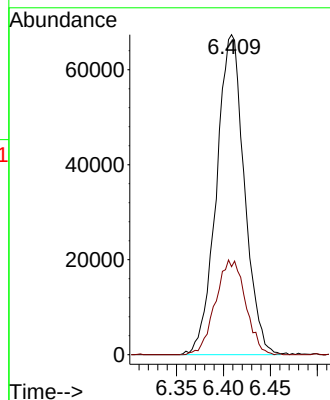
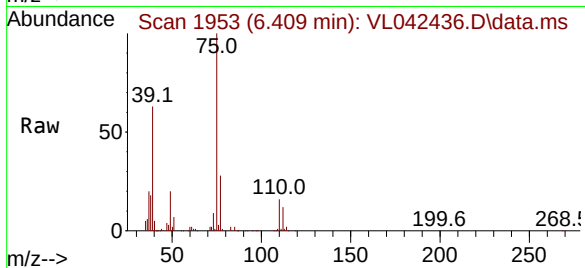




#45
 t-1,3-Dichloropropene
 Concen: 9.026 ppbv
 RT: 6.409 min Scan# 1699
 Delta R.T. -0.007 min
 Lab File: VL042436.D
 Acq: 29 Apr 2025 08:39

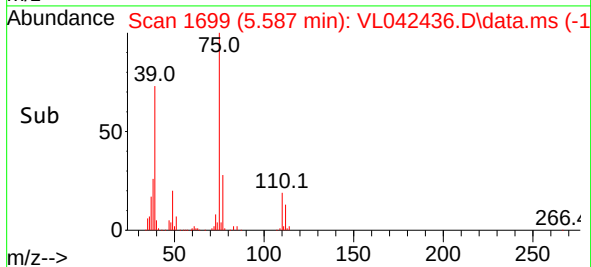
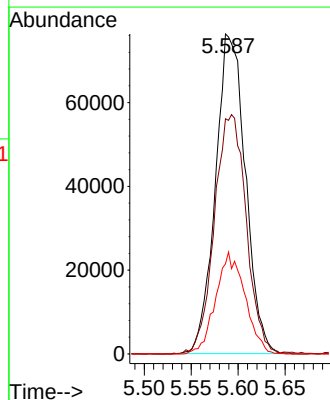
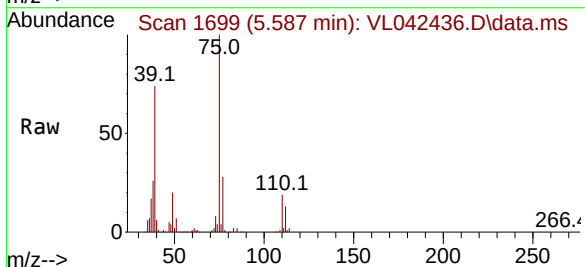
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

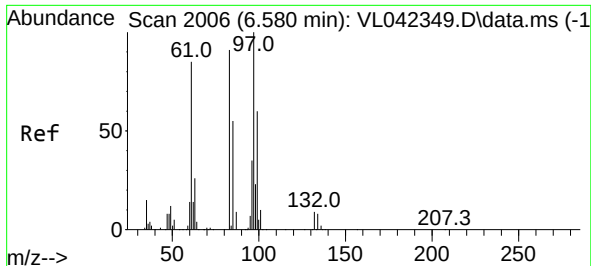
Tgt Ion: 75 Resp: 139508
 Ion Ratio Lower Upper
 75 100
 77 27.5 27.0 40.6



#46
 cis-1,3-Dichloropropene
 Concen: 8.953 ppbv
 RT: 5.587 min Scan# 1699
 Delta R.T. -0.013 min
 Lab File: VL042436.D
 Acq: 29 Apr 2025 08:39

Tgt Ion: 75 Resp: 169355
 Ion Ratio Lower Upper
 75 100
 39 73.4 50.0 75.0
 77 28.2 23.0 34.6





#47

1,1,2-Trichloroethane

Concen: 6.778 ppbv

RT: 6.570 min Scan# 2006

Delta R.T. -0.010 min

Lab File: VL042436.D

Acq: 29 Apr 2025 08:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 97 Resp: 86392

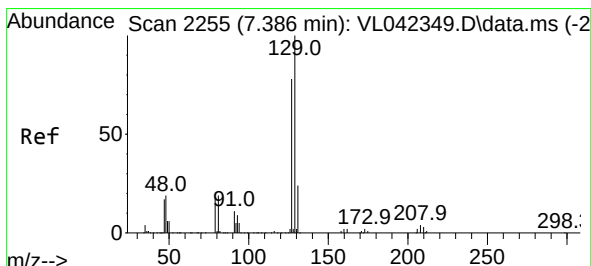
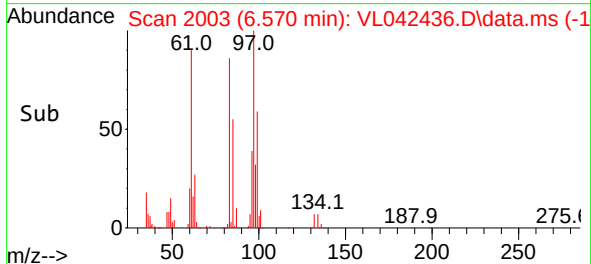
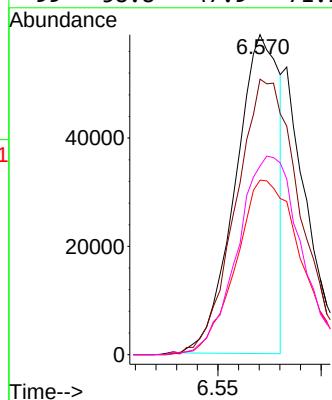
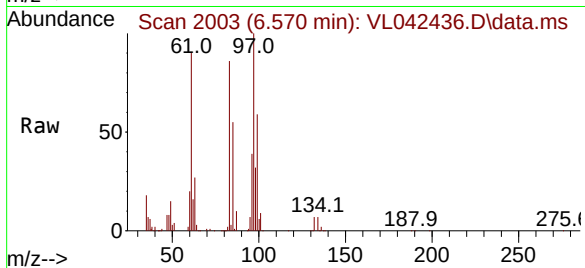
Ion Ratio Lower Upper

97 100

83 86.3 72.8 109.2

85 54.1 44.2 66.4

99 58.8 47.9 71.9



#48

Dibromochloromethane

Concen: 10.339 ppbv

RT: 7.380 min Scan# 2253

Delta R.T. -0.007 min

Lab File: VL042436.D

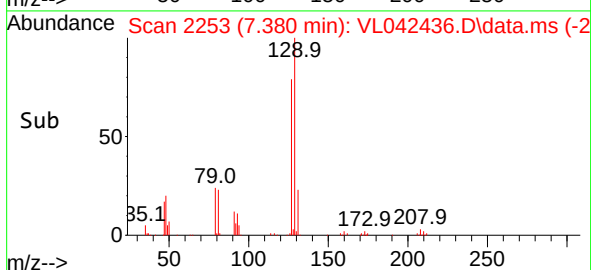
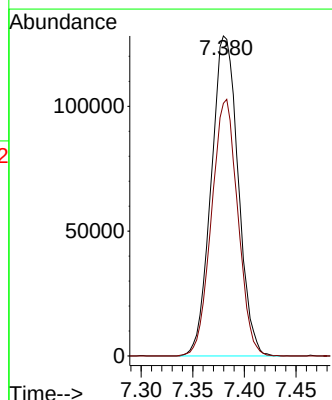
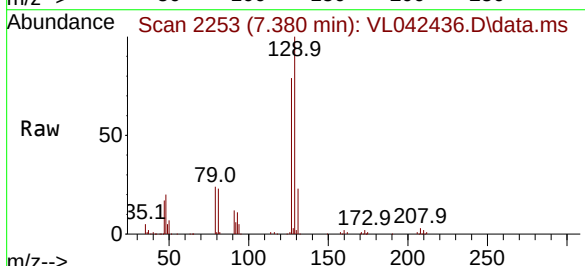
Acq: 29 Apr 2025 08:39

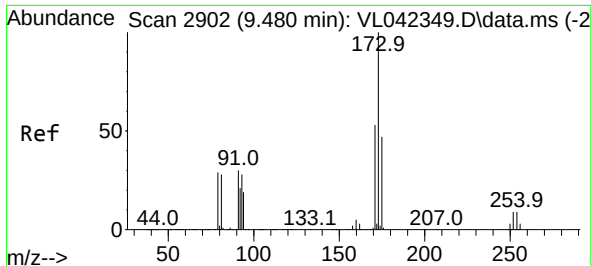
Tgt Ion: 129 Resp: 232818

Ion Ratio Lower Upper

129 100

127 78.1 39.1 117.3

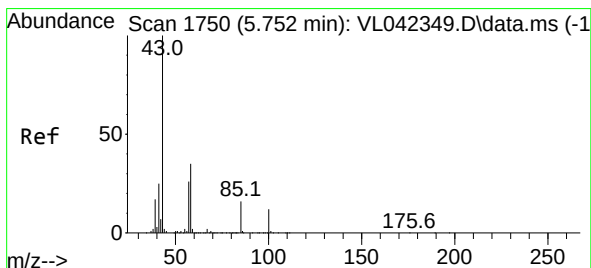
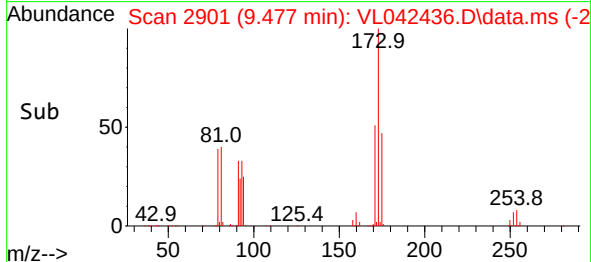
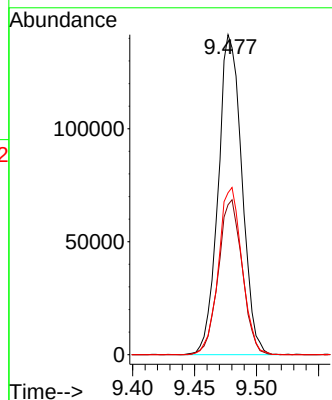
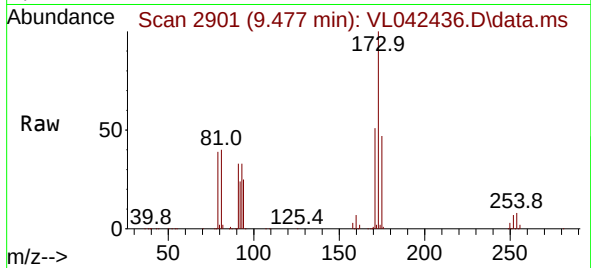




#49
Bromoform
Concen: 9.593 ppbv
RT: 9.477 min Scan# 2902
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

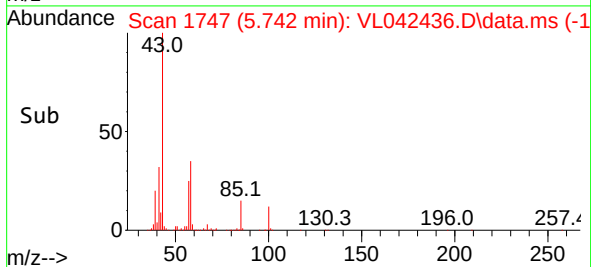
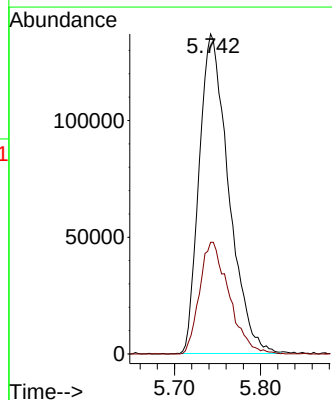
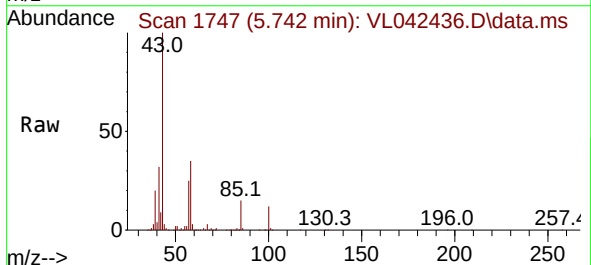
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

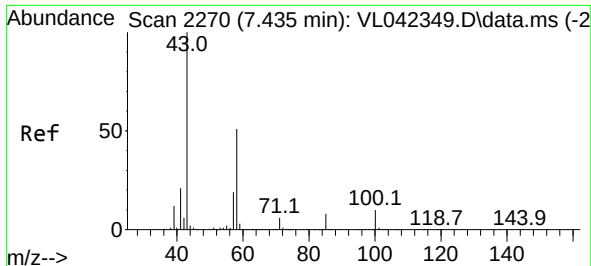
Tgt Ion:173 Resp: 188896
Ion Ratio Lower Upper
173 100
175 48.7 38.2 57.2
171 52.0 40.9 61.3



#50
4-Methyl-2-Pentanone
Concen: 7.965 ppbv
RT: 5.742 min Scan# 1747
Delta R.T. -0.010 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 43 Resp: 325855
Ion Ratio Lower Upper
43 100
58 35.1 28.6 43.0

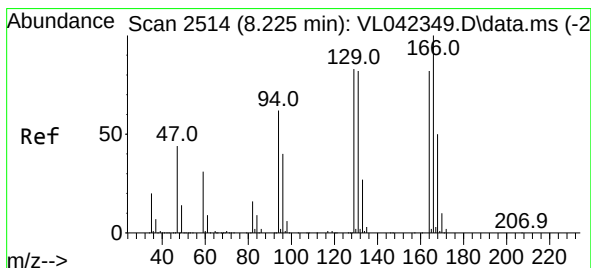
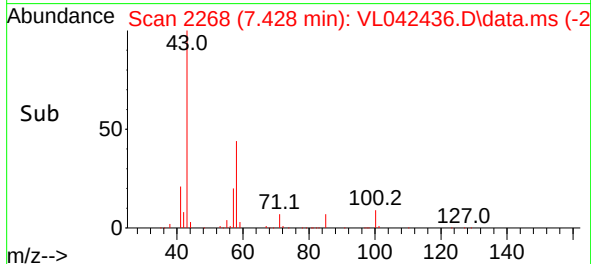
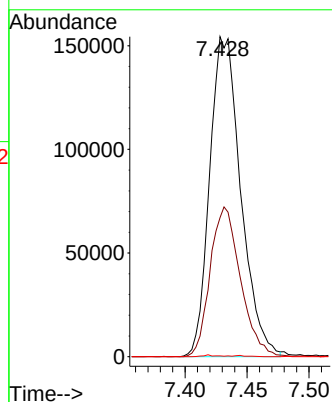
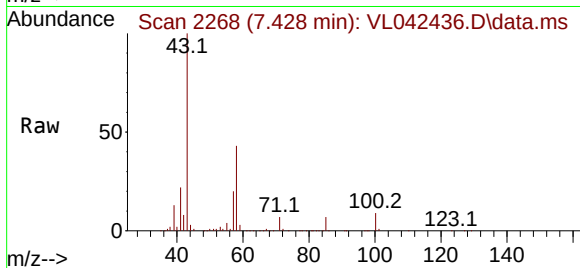




#51
2-Hexanone
Concen: 7.357 ppbv
RT: 7.428 min Scan# 21
Delta R.T. -0.007 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

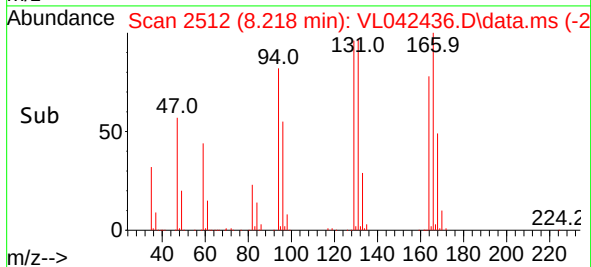
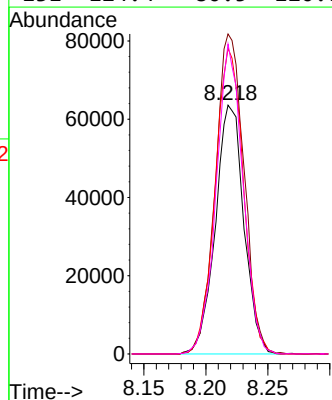
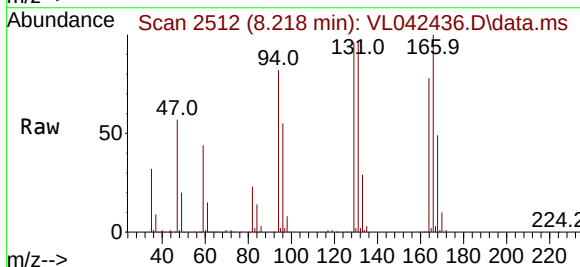
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

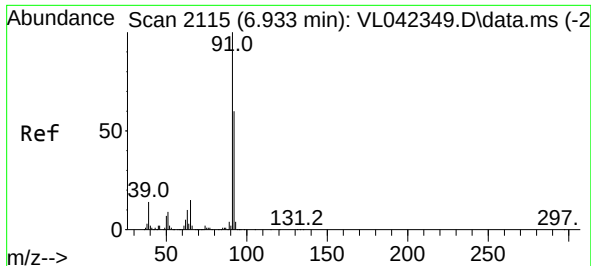
Tgt Ion: 43 Resp: 269915
Ion Ratio Lower Upper
43 100
58 45.8 40.2 60.4
98 0.4 0.1 0.1#



#52
Tetrachloroethene
Concen: 7.833 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. -0.007 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 164 Resp: 101642
Ion Ratio Lower Upper
164 100
166 128.6 98.2 147.2
129 122.8 81.8 122.8#
131 124.4 80.5 120.7#

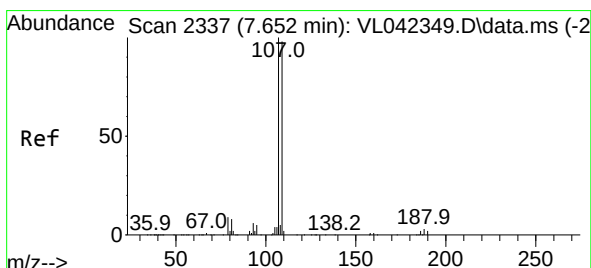
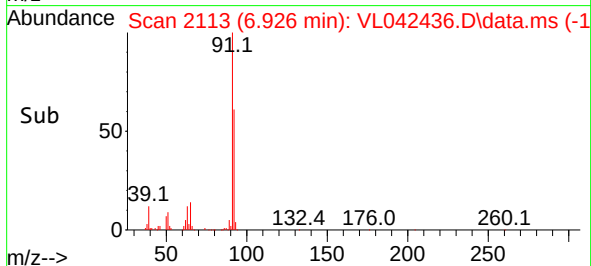
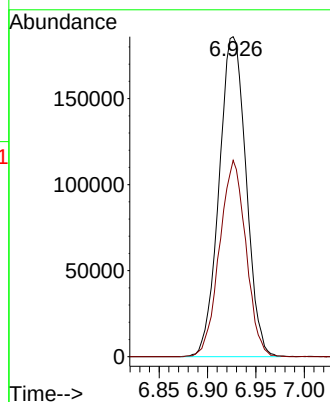
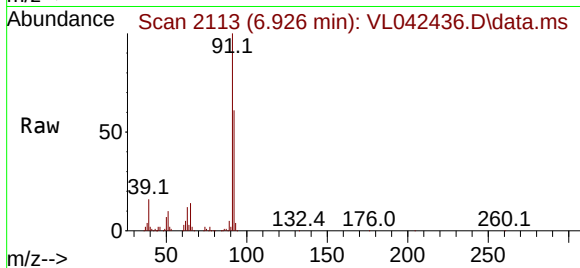




#53
Toluene
Concen: 8.968 ppbv
RT: 6.926 min Scan# 2115
Delta R.T. -0.007 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

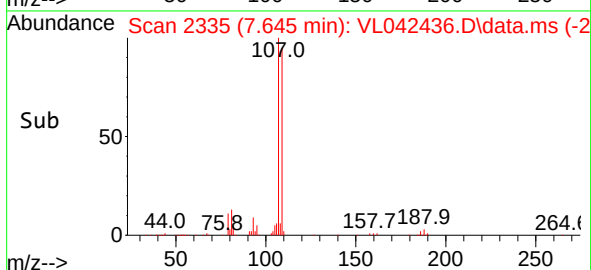
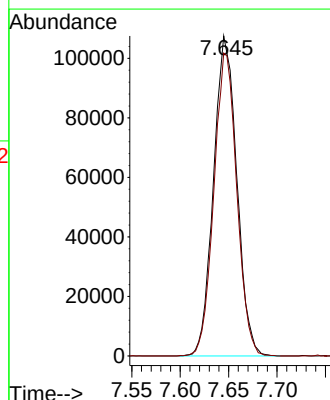
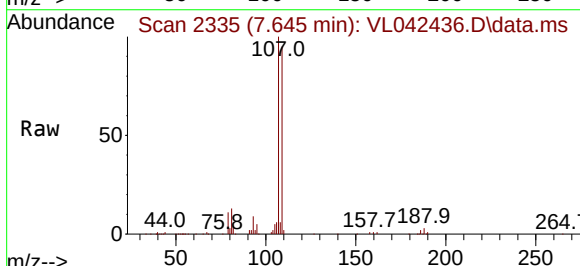
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

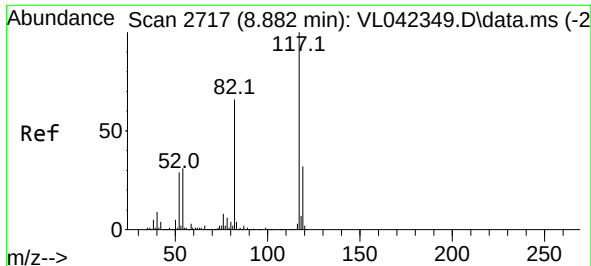
Tgt Ion: 91 Resp: 361317
Ion Ratio Lower Upper
91 100
92 59.9 48.2 72.4



#54
1,2-Dibromoethane
Concen: 9.861 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. -0.007 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 107 Resp: 179895
Ion Ratio Lower Upper
107 100
109 94.7 78.2 117.4

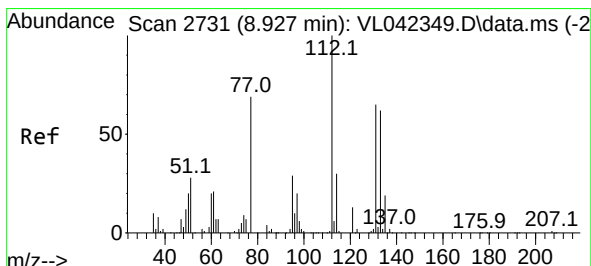
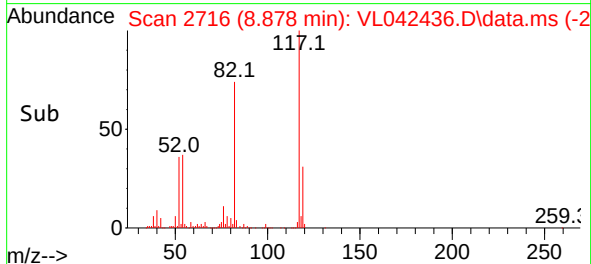
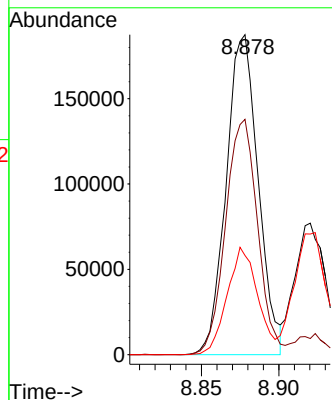
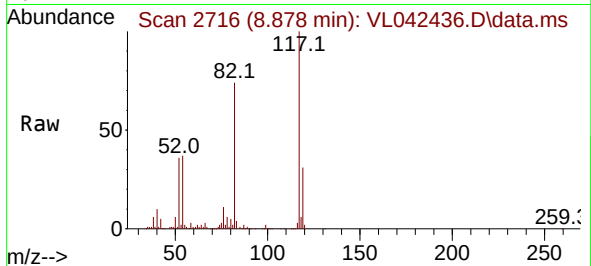




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2172
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

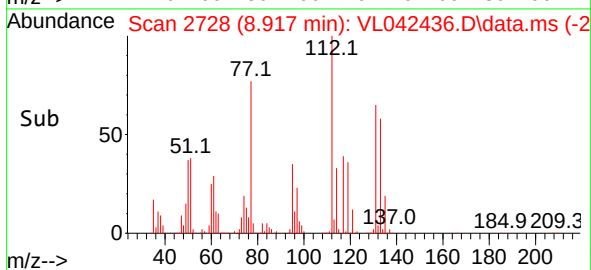
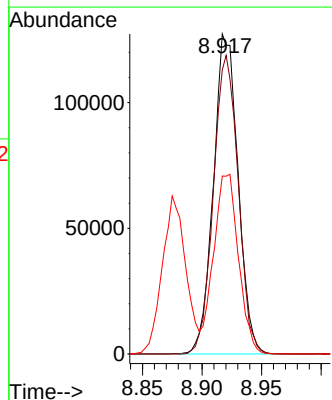
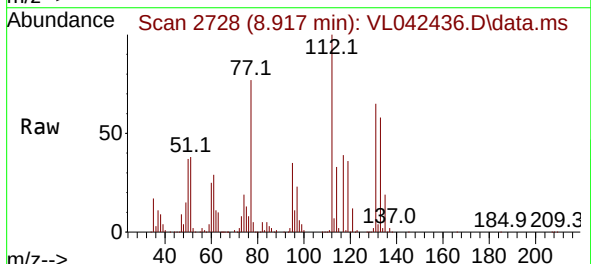
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

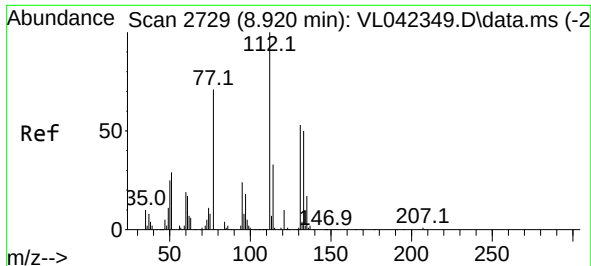
Tgt Ion:117 Resp: 269987
Ion Ratio Lower Upper
117 100
82 79.6 57.8 86.6
119 32.9 25.2 37.8



#56
1,1,1,2-Tetrachloroethane
Concen: 11.184 ppbv
RT: 8.917 min Scan# 2728
Delta R.T. -0.010 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion:131 Resp: 182759
Ion Ratio Lower Upper
131 100
133 93.9 78.3 117.5
119 55.8 48.7 73.1

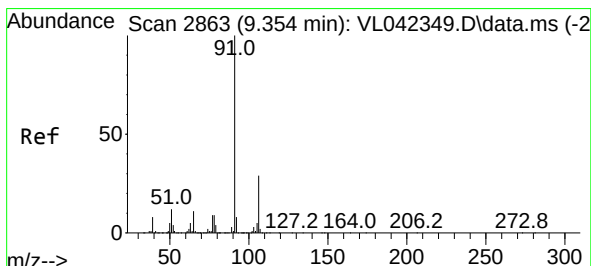
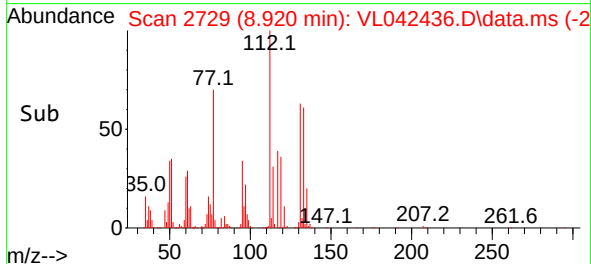
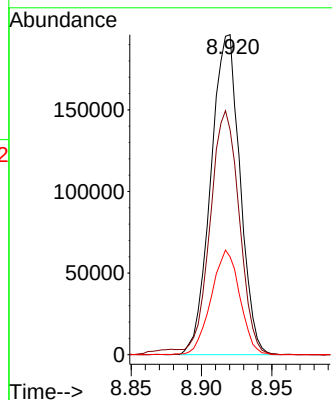
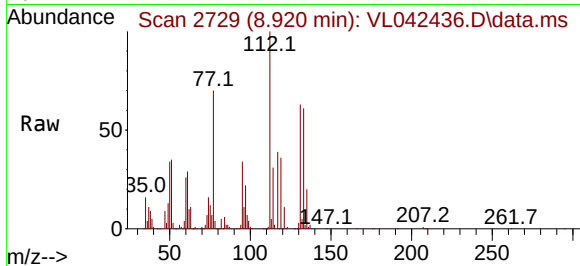




#57
Chlorobenzene
Concen: 10.086 ppbv
RT: 8.920 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

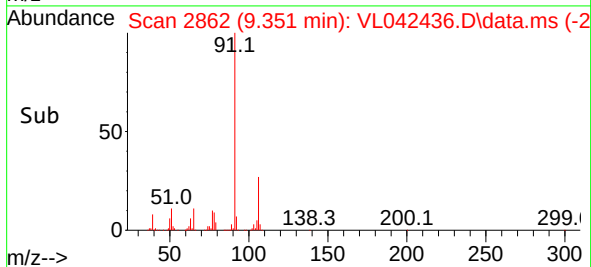
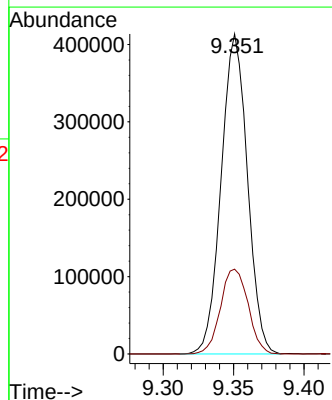
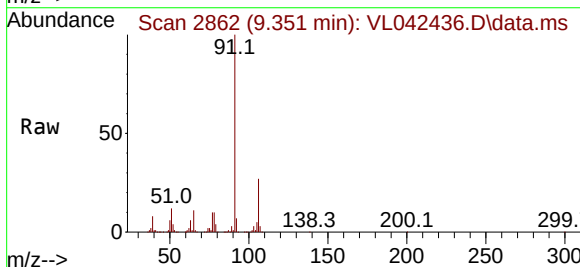
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

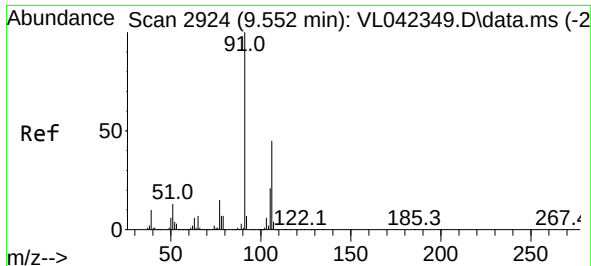
Tgt Ion:112 Resp: 283210
Ion Ratio Lower Upper
112 100
77 70.2 57.8 86.6
114 30.6 29.3 35.9



#58
Ethyl Benzene
Concen: 10.032 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 91 Resp: 536634
Ion Ratio Lower Upper
91 100
106 26.5 23.0 34.4





#59

m/p-Xylene

Concen: 10.897 ppbv

RT: 9.545 min Scan# 29

Delta R.T. -0.007 min

Lab File: VL042436.D

Acq: 29 Apr 2025 08:39

Instrument :

MSVOA_L

ClientSampleId :

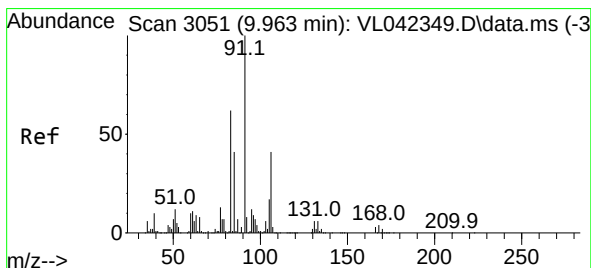
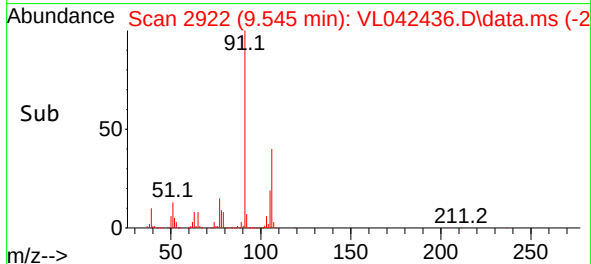
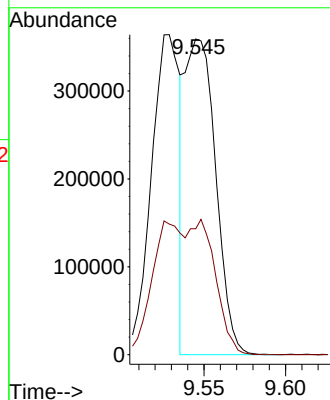
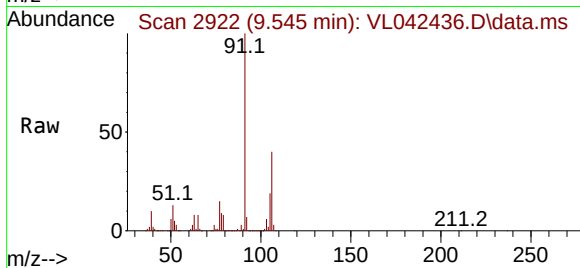
VSTDCCC010

Tgt Ion: 91 Resp: 469573

Ion Ratio Lower Upper

91 100

106 81.2 35.4 53.2#



#60

o-Xylene

Concen: 10.686 ppbv

RT: 9.959 min Scan# 3050

Delta R.T. -0.003 min

Lab File: VL042436.D

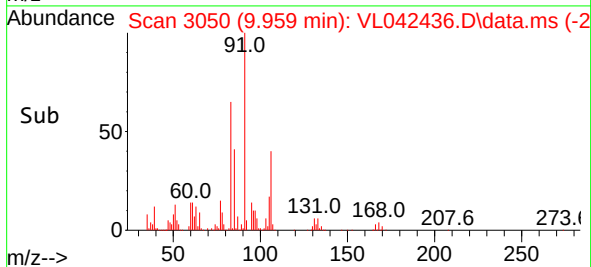
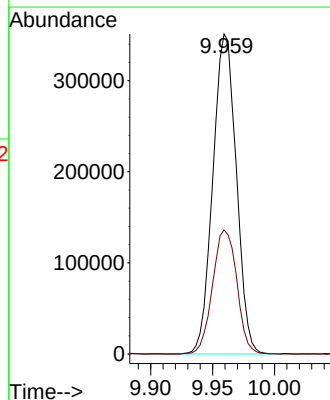
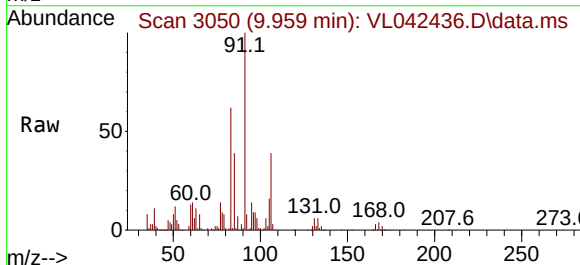
Acq: 29 Apr 2025 08:39

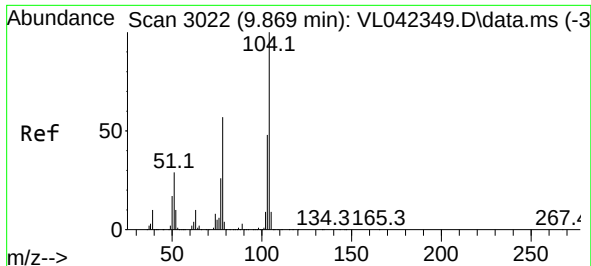
Tgt Ion: 91 Resp: 463713

Ion Ratio Lower Upper

91 100

106 40.0 21.1 63.4

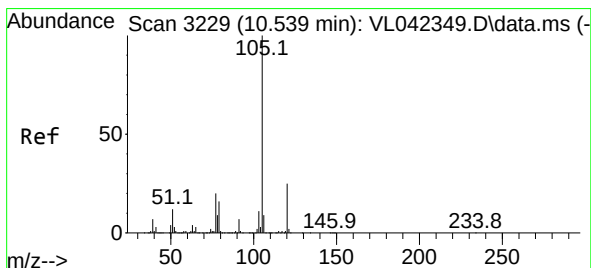
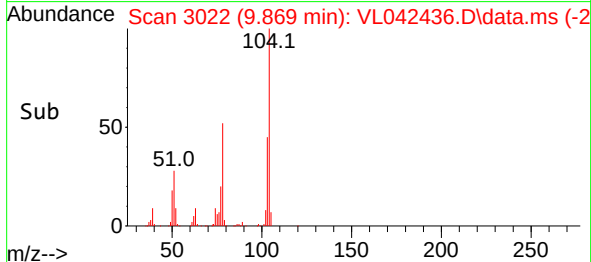
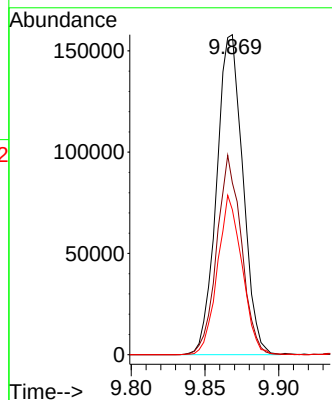
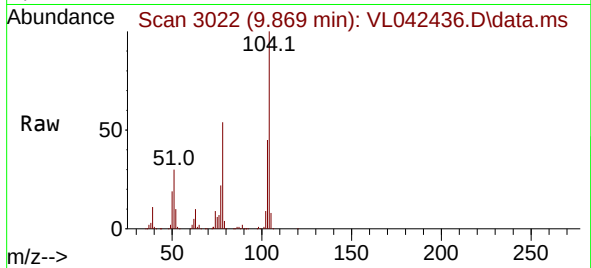




#61
Styrene
Concen: 9.454 ppbv
RT: 9.869 min Scan# 3022
Delta R.T. -0.000 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

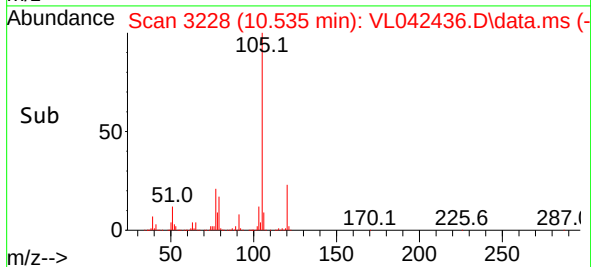
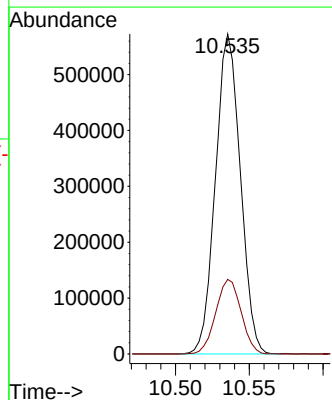
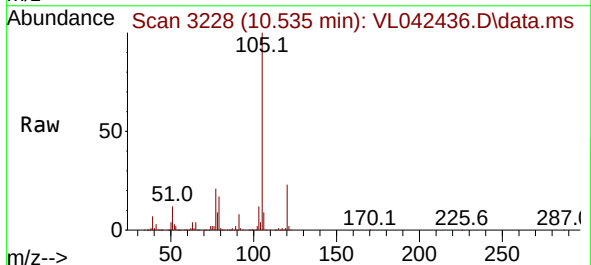
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

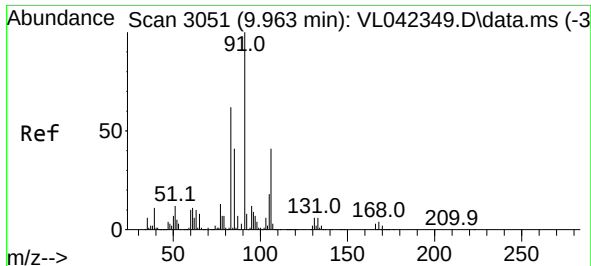
Tgt Ion:104 Resp: 195813
Ion Ratio Lower Upper
104 100
78 58.5 44.6 66.8
103 46.7 37.4 56.0



#62
Isopropylbenzene
Concen: 10.558 ppbv
RT: 10.535 min Scan# 3228
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion:105 Resp: 672630
Ion Ratio Lower Upper
105 100
120 23.7 19.8 29.8

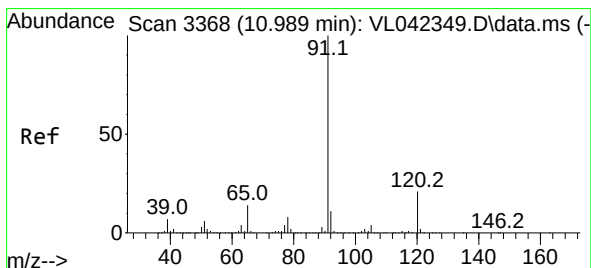
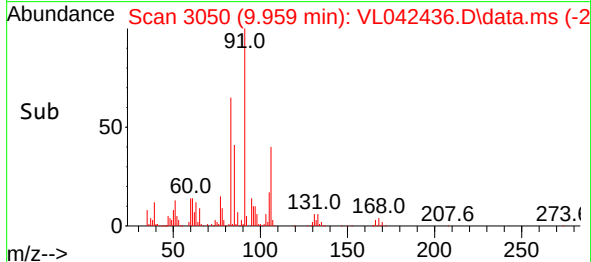
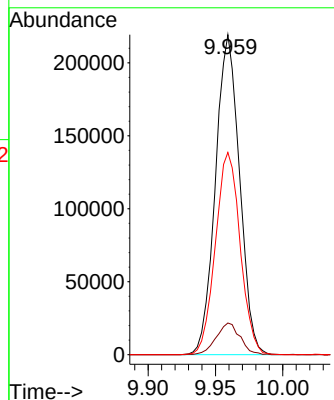
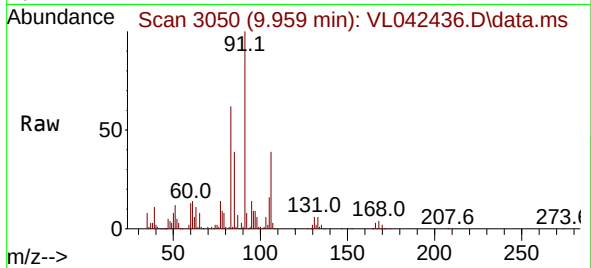




#63
1,1,2,2-Tetrachloroethane
Concen: 9.699 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

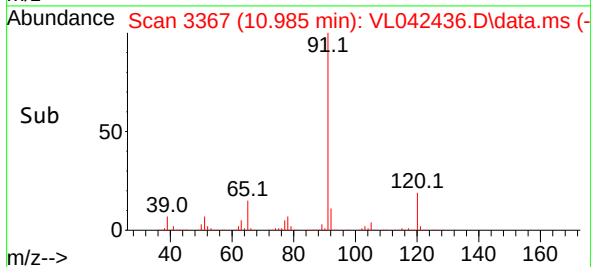
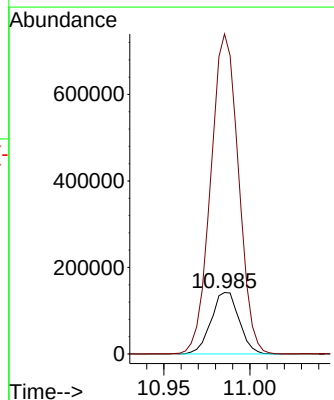
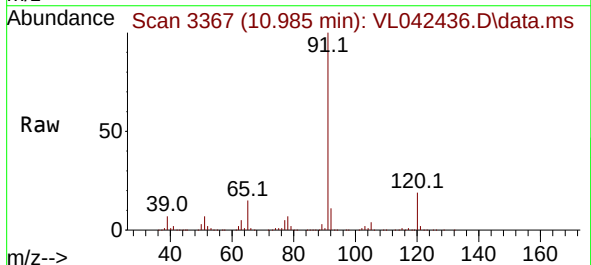
Instrument : MSVOA_1
ClientSampleId : VSTDCCC010

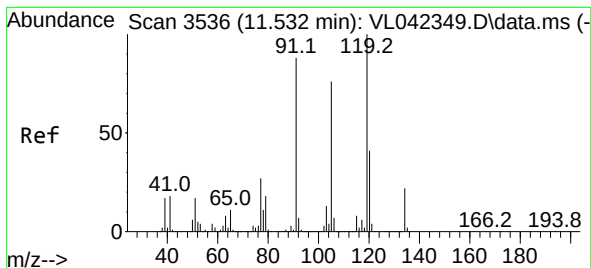
Tgt Ion: 83 Resp: 272746
Ion Ratio Lower Upper
83 100
131 9.8 4.5 13.7
85 65.0 32.4 97.0



#64
n-propylbenzene
Concen: 10.037 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion:120 Resp: 160736
Ion Ratio Lower Upper
120 100
91 518.7 392.4 588.6





#65

tert-Butylbenzene

Concen: 10.535 ppbv

RT: 11.529 min Scan# 3535

Delta R.T. -0.003 min

Lab File: VL042436.D

Acq: 29 Apr 2025 08:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

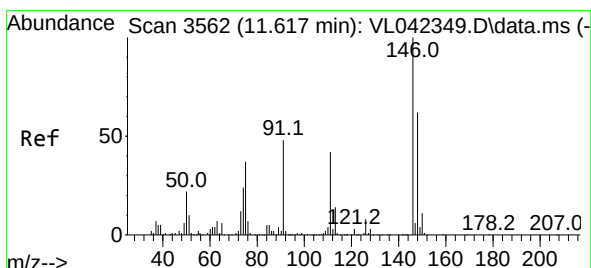
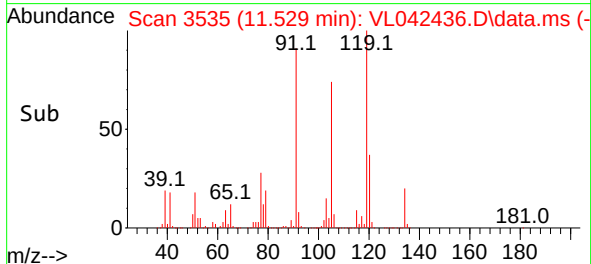
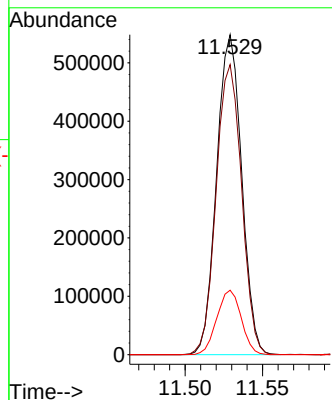
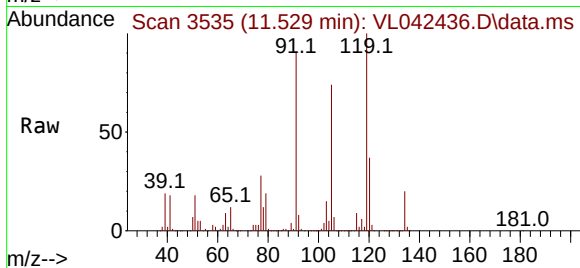
Tgt Ion:119 Resp: 616872

Ion Ratio Lower Upper

119 100

91 92.2 74.6 111.8

134 19.6 18.8 28.2



#66

Benzyl Chloride

Concen: 7.746 ppbv

RT: 11.613 min Scan# 3561

Delta R.T. -0.003 min

Lab File: VL042436.D

Acq: 29 Apr 2025 08:39

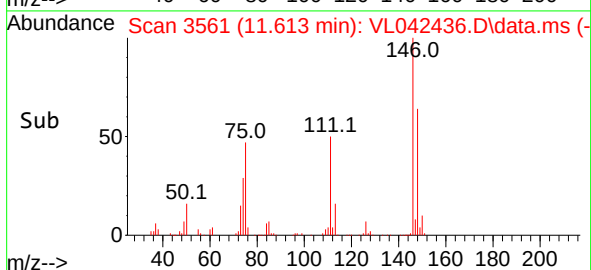
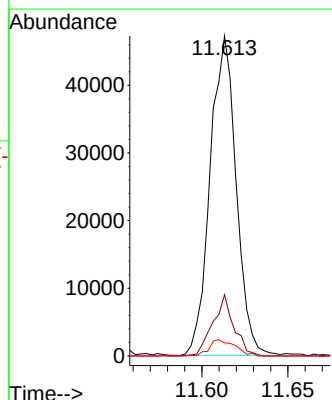
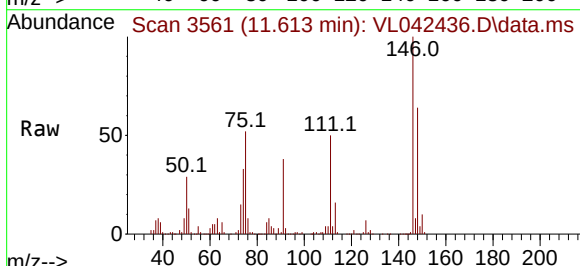
Tgt Ion: 91 Resp: 49841

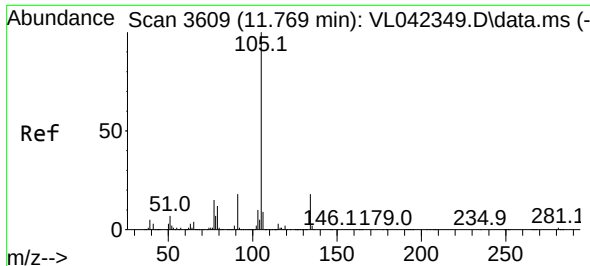
Ion Ratio Lower Upper

91 100

126 15.4 11.8 17.6

128 5.1 4.5 6.7

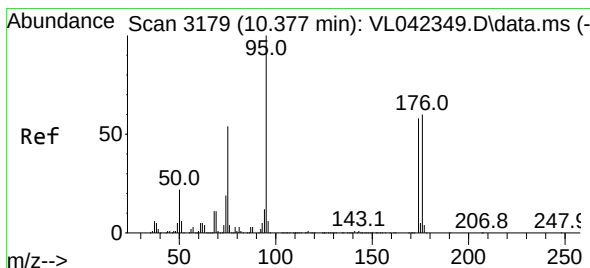
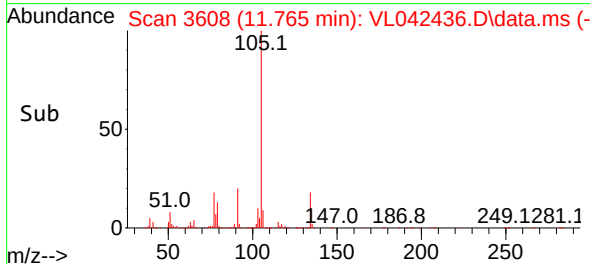
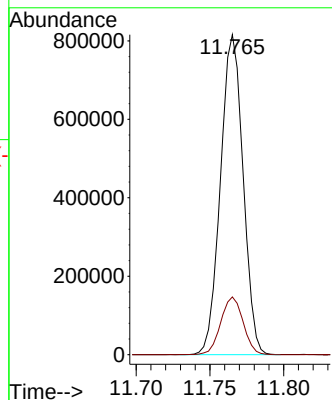
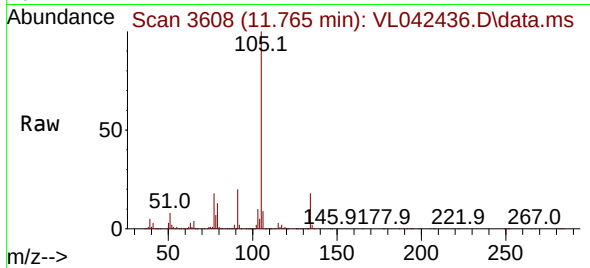




#67
sec-Butylbenzene
Concen: 10.677 ppbv
RT: 11.765 min Scan# 3178
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

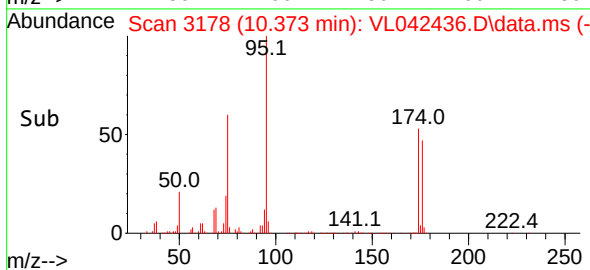
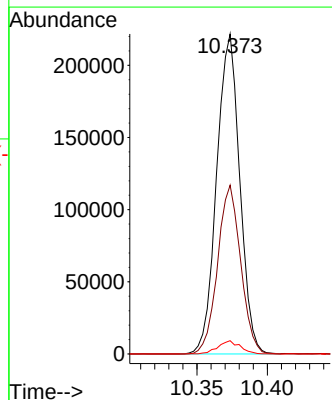
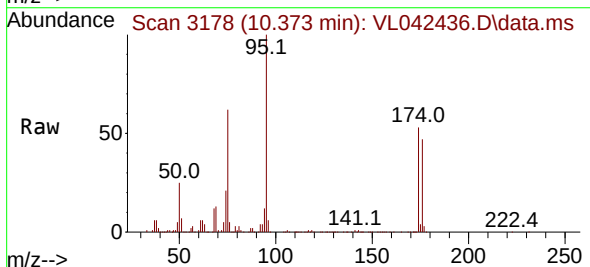
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

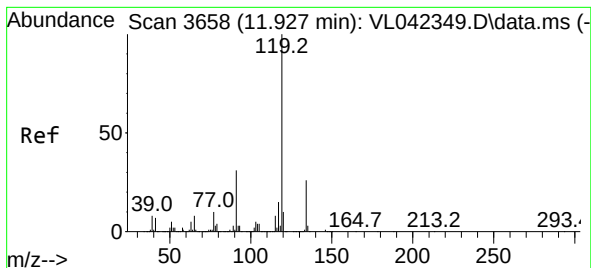
Tgt Ion:105 Resp: 869595
Ion Ratio Lower Upper
105 100
134 17.9 14.6 21.8



#68
1-Bromo-4-Fluorobenzene
Concen: 11.413 ppbv
RT: 10.373 min Scan# 3178
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 95 Resp: 253216
Ion Ratio Lower Upper
95 100
174 52.8 48.5 72.7
175 4.0 3.7 5.5

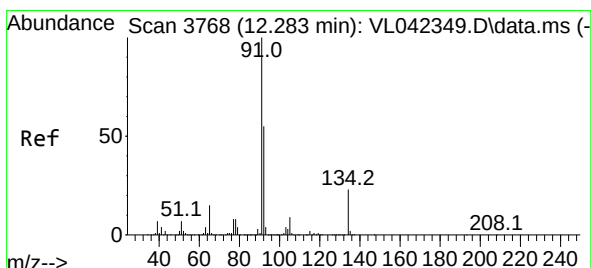
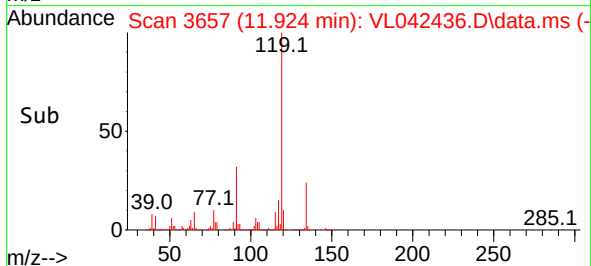
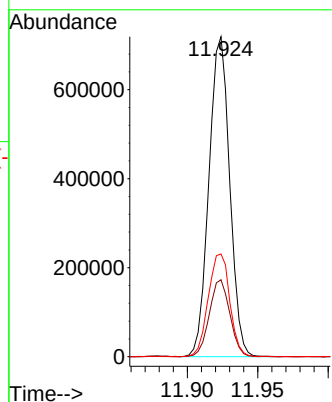
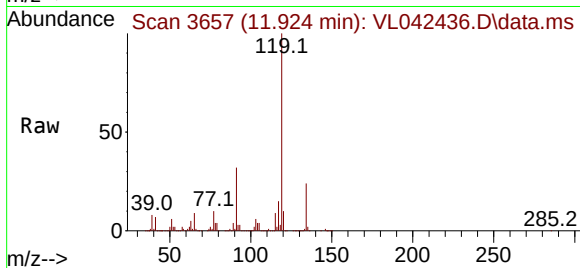




#69
 p-Isopropyltoluene
 Concen: 10.442 ppbv
 RT: 11.924 min Scan# 30
 Delta R.T. -0.003 min
 Lab File: VL042436.D
 Acq: 29 Apr 2025 08:39

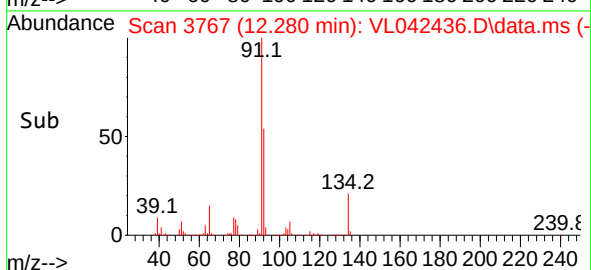
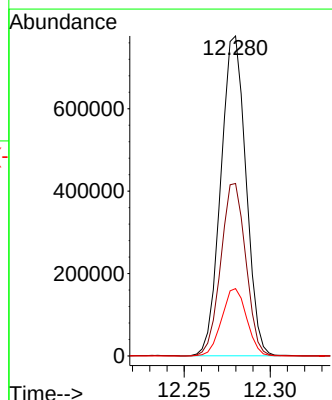
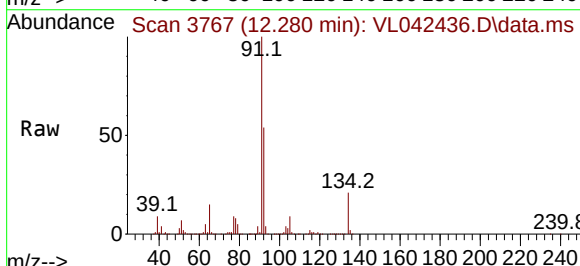
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010

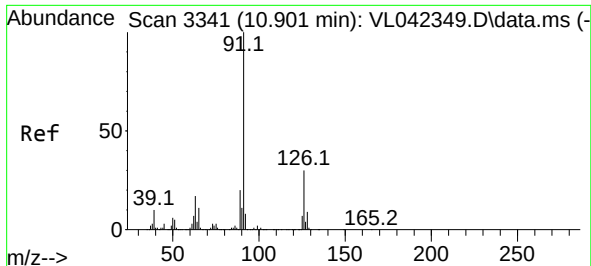
Tgt Ion:119 Resp: 738863
 Ion Ratio Lower Upper
 119 100
 134 23.9 20.0 30.0
 91 33.5 24.4 36.6



#70
 n-Butylbenzene
 Concen: 10.688 ppbv
 RT: 12.280 min Scan# 3767
 Delta R.T. -0.003 min
 Lab File: VL042436.D
 Acq: 29 Apr 2025 08:39

Tgt Ion: 91 Resp: 787717
 Ion Ratio Lower Upper
 91 100
 92 53.9 44.2 66.4
 134 21.0 18.2 27.4

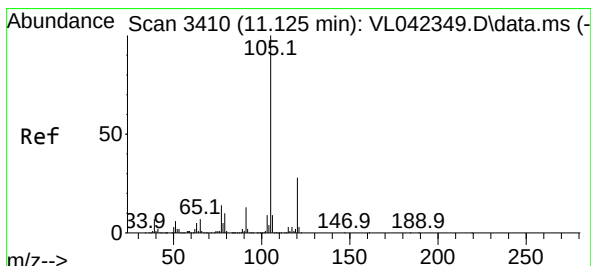
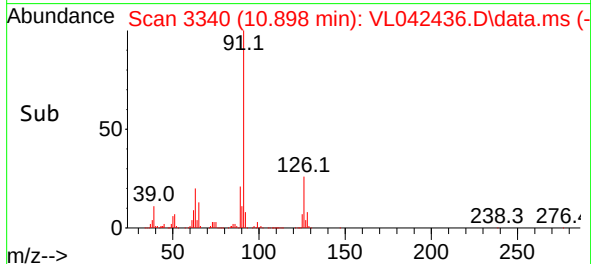
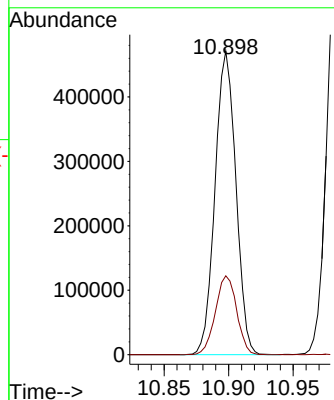
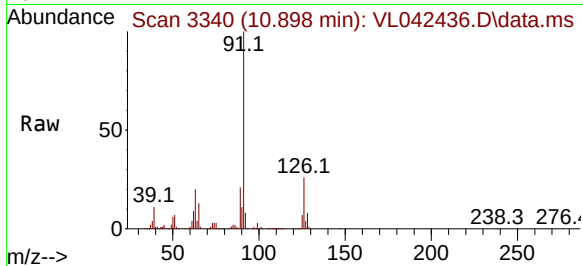




#71
2-Chlorotoluene
Concen: 10.571 ppbv
RT: 10.898 min Scan# 31
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

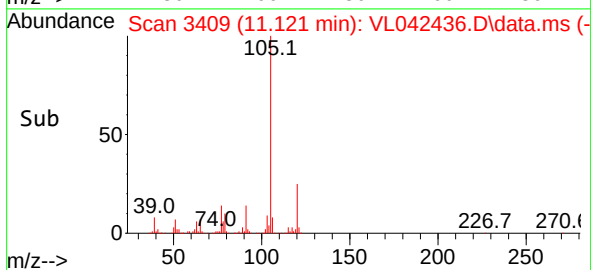
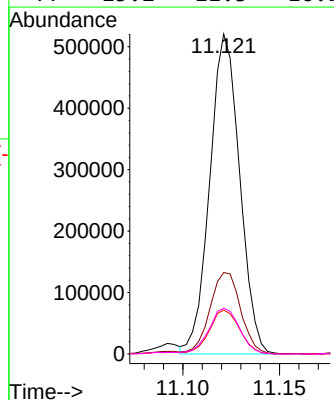
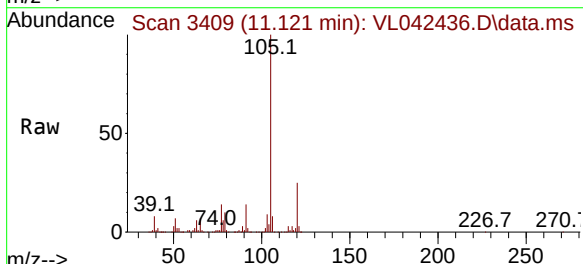
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

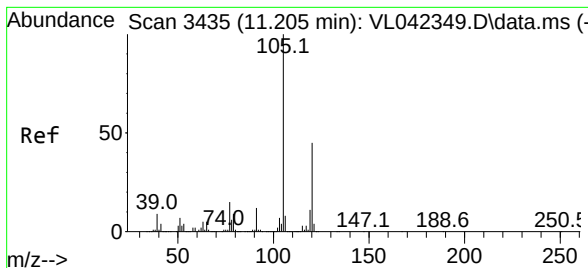
Tgt Ion: 91 Resp: 528205
Ion Ratio Lower Upper
91 100
126 26.5 11.4 45.4



#72
4-Ethyltoluene
Concen: 10.542 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 105 Resp: 559285
Ion Ratio Lower Upper
105 100
120 27.0 23.2 34.8
91 14.5 10.4 15.6
77 15.2 11.3 16.9





#73

1,3,5-Trimethylbenzene

Concen: 10.546 ppbv

RT: 11.199 min Scan# 34

Delta R.T. -0.007 min

Lab File: VL042436.D

Acq: 29 Apr 2025 08:39

Instrument :

MSVOA_1

ClientSampleId :

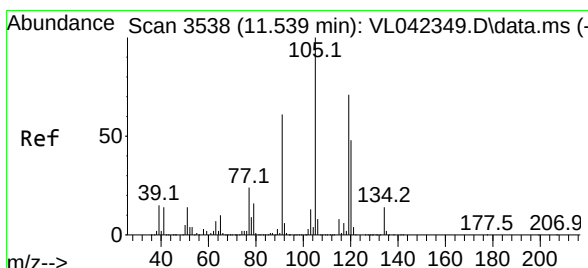
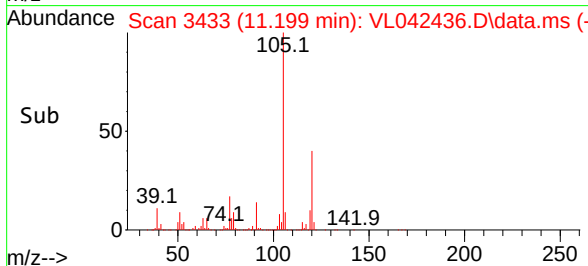
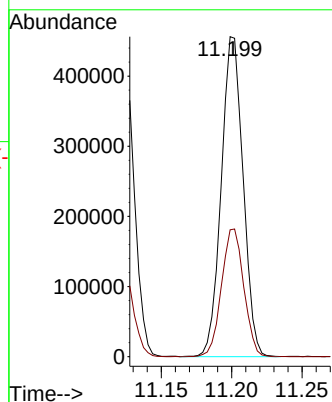
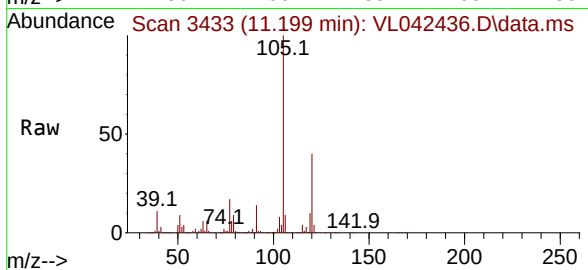
VSTDCCC010

Tgt Ion:105 Resp: 493949

Ion Ratio Lower Upper

105 100

120 39.6 35.6 53.4



#74

1,2,4-Trimethylbenzene

Concen: 10.130 ppbv

RT: 11.535 min Scan# 3537

Delta R.T. -0.003 min

Lab File: VL042436.D

Acq: 29 Apr 2025 08:39

Tgt Ion:105 Resp: 554136

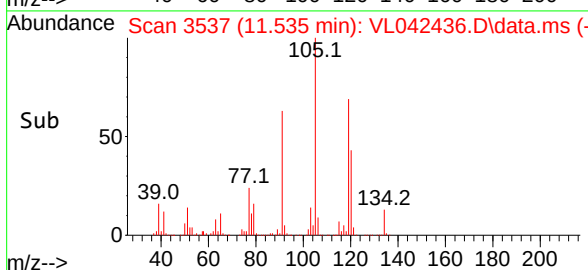
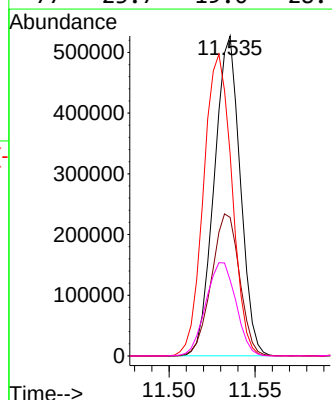
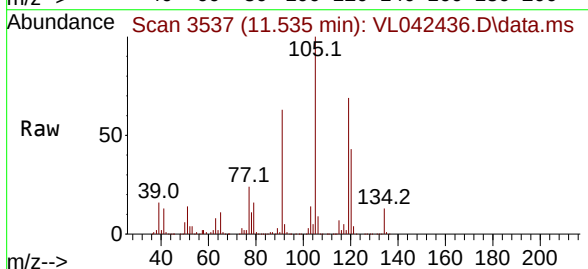
Ion Ratio Lower Upper

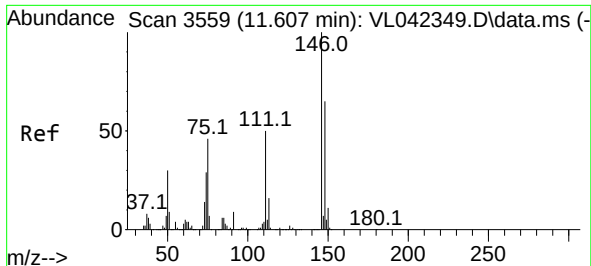
105 100

120 43.3 38.1 57.1

91 63.1 48.8 73.2

77 23.7 19.0 28.4

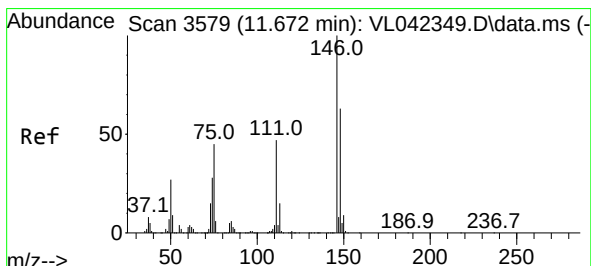
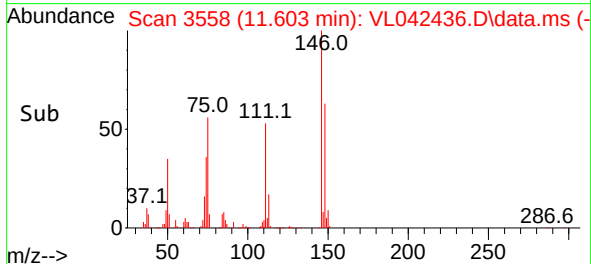
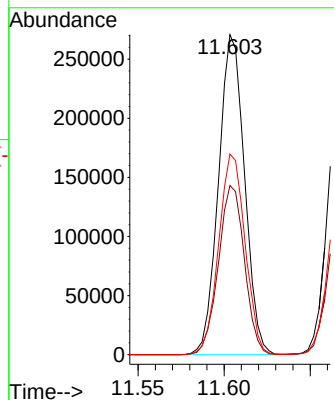
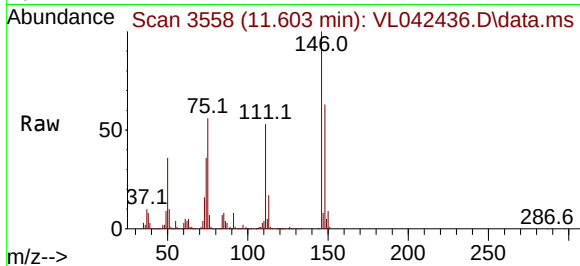




#75
1,3-Dichlorobenzene
Concen: 10.024 ppbv
RT: 11.603 min Scan# 3558
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

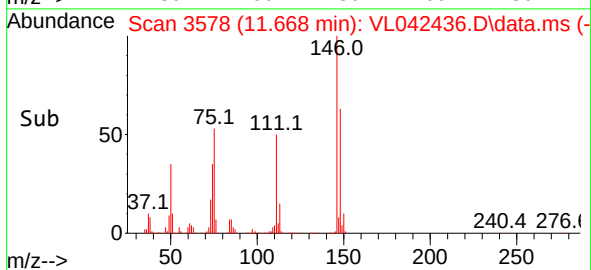
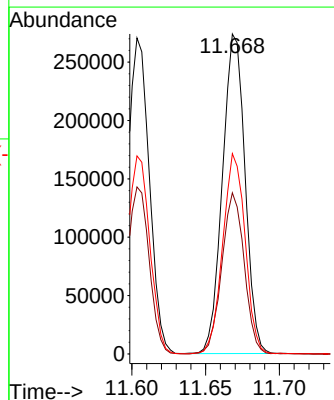
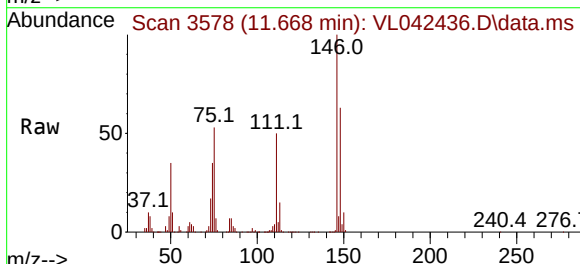
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

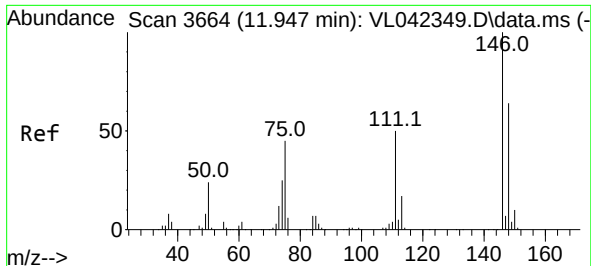
Tgt Ion:146 Resp: 285025
Ion Ratio Lower Upper
146 100
111 52.9 24.3 72.8
148 63.6 31.6 94.8



#76
1,4-Dichlorobenzene
Concen: 10.210 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion:146 Resp: 291795
Ion Ratio Lower Upper
146 100
111 50.1 24.2 72.6
148 62.4 32.1 96.5

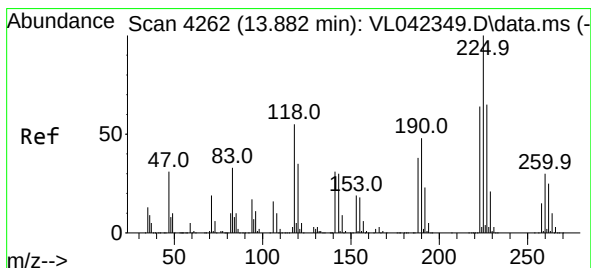
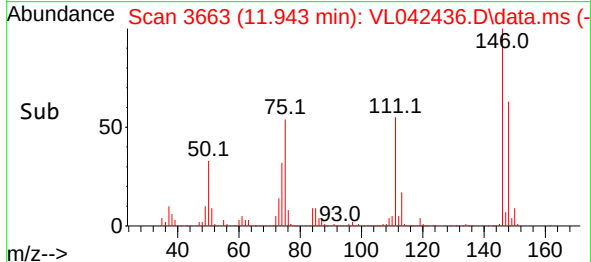
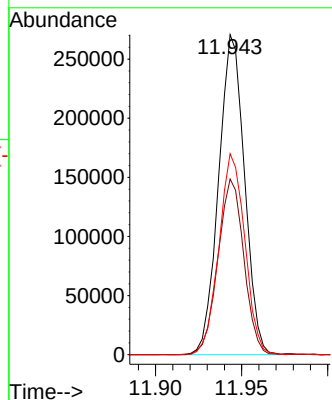
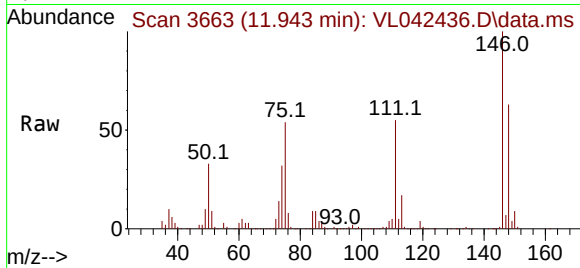




#77
1,2-Dichlorobenzene
Concen: 10.261 ppbv
RT: 11.943 min Scan# 30
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

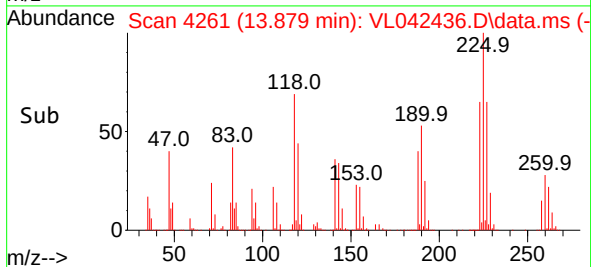
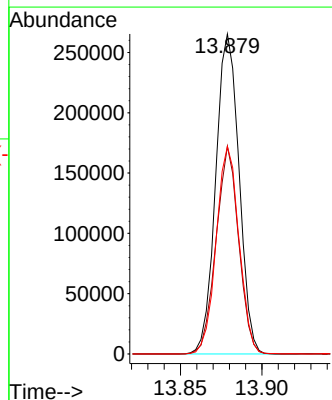
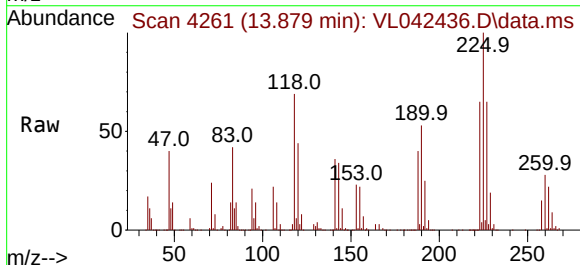
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

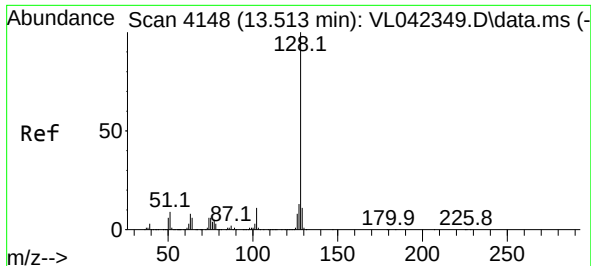
Tgt Ion:146 Resp: 283700
Ion Ratio Lower Upper
146 100
111 54.8 25.3 75.9
148 63.1 31.5 94.5



#78
Hexachloro-1,3-Butadiene
Concen: 9.437 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion:225 Resp: 263477
Ion Ratio Lower Upper
225 100
223 62.6 50.3 75.5
227 63.6 51.5 77.3

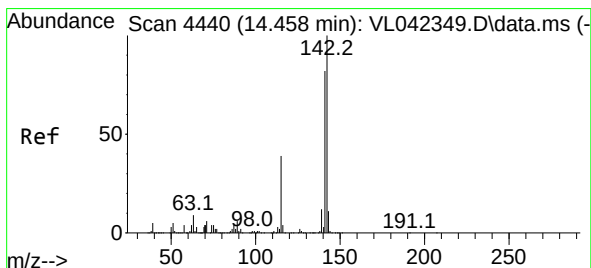
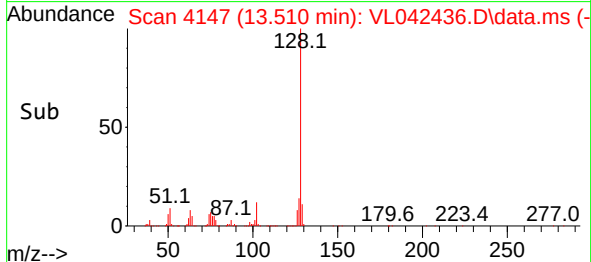
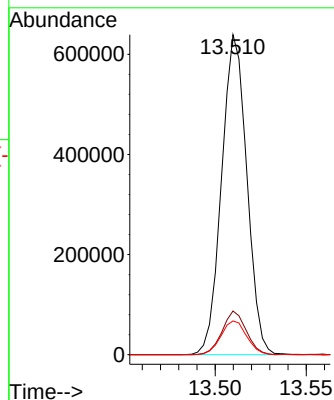
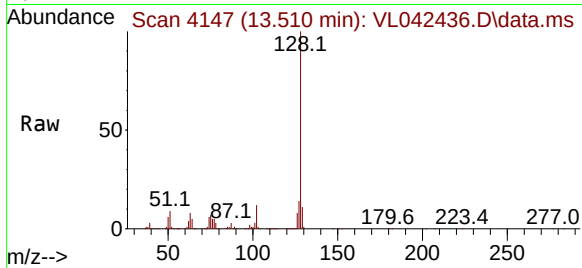




#79
Naphthalene
Concen: 9.408 ppbv
RT: 13.510 min Scan# 4148
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

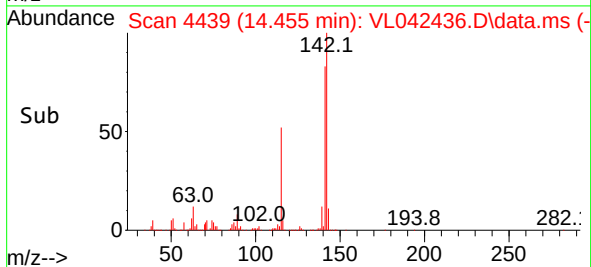
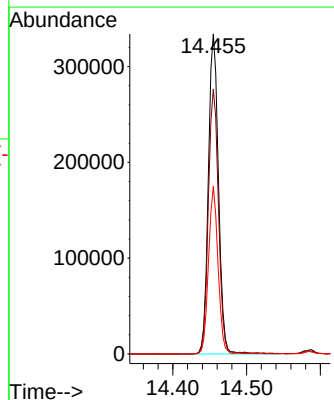
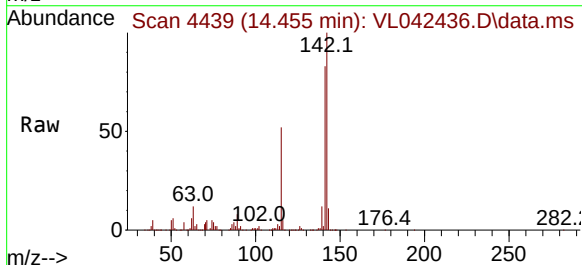
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

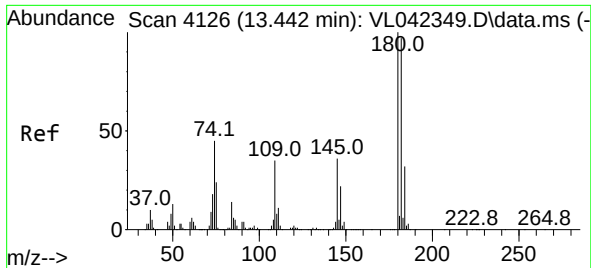
Tgt Ion:128 Resp: 615408
Ion Ratio Lower Upper
128 100
127 13.7 10.6 15.8
129 10.5 8.6 12.8



#80
Naphthalene,2-methyl-
Concen: 8.497 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion:142 Resp: 316788
Ion Ratio Lower Upper
142 100
141 83.6 66.8 100.2
115 49.6 33.4 50.2





#81

1,2,4-Trichlorobenzene

Concen: 9.363 ppbv

RT: 13.439 min Scan# 41

Delta R.T. -0.003 min

Lab File: VL042436.D

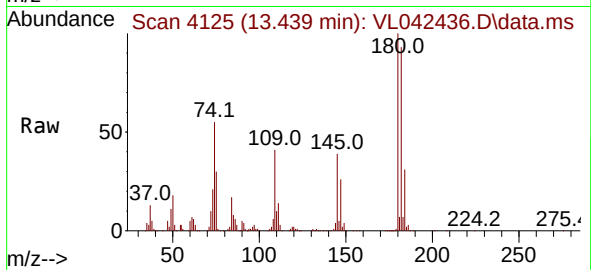
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Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010



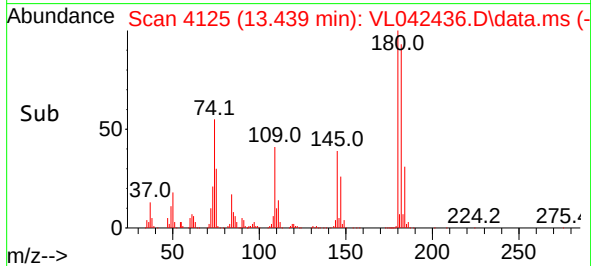
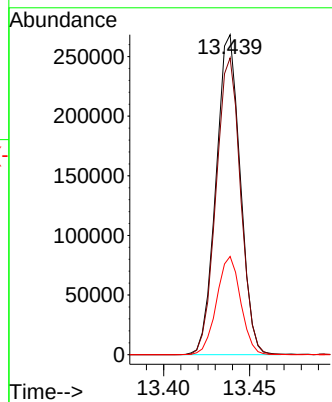
Tgt Ion:180 Resp: 263006

Ion Ratio Lower Upper

180 100

182 93.8 76.8 115.2

184 30.4 24.6 36.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042925\
 Data File : VL042438.D
 Acq On : 29 Apr 2025 10:08
 Operator : SY/MD
 Sample : VL0429ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0429ABS01

Quant Time: Apr 30 01:17:14 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 02:14:00 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	116772	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	317590	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.881	117	272312	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	253021	11.307	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	113.100%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	238539	11.562	ppbv	96
3) Chlorodifluoromethane	1.476	51	192670	9.807	ppbv	92
4) Chloromethane	1.534	50	89832	11.003	ppbv	94
5) Vinyl Chloride	1.580	62	85334	9.601	ppbv	99
6) Bromomethane	1.667	94	40758	10.676	ppbv	94
7) Chloroethane	1.706	64	33756	10.502	ppbv	97
8) Dichlorotetrafluoroethane	1.554	85	198106	11.184	ppbv	95
9) Propene	1.486	41	70111	7.836	ppbv	97
10) Heptane	4.981	43	190583	7.582	ppbv	99
11) Trichlorofluoromethane	1.877	101	225308	11.484	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.140	101	174111	10.854	ppbv	97
13) Ethanol	1.722	45	4137	2.909	ppbv	90
14) Bromoethene	1.783	108	64544	10.674	ppbv #	98
15) Acetone	1.835	43	189432	9.910	ppbv	98
16) 1,3-Butadiene	1.609	39	90473	9.895	ppbv	93
17) tert-Butyl alcohol	2.042	59	230217	9.718	ppbv	99
18) 1,1-Dichloroethene	2.036	96	76749	10.241	ppbv	96
19) Isopropyl Alcohol	1.887	45	103692	9.765	ppbv #	36
20) Methylene Chloride	2.062	84	67298	8.989	ppbv	91
21) Allyl Chloride	2.097	41	130014	9.851	ppbv	95
22) trans-1,2-Dichloroethene	2.340	96	84797	9.938	ppbv	90
23) Vinyl Acetate	2.463	43	61036	7.888	ppbv #	95
24) 1,1-Dichloroethane	2.408	63	177233	10.934	ppbv	98
25) Ethyl Acetate	2.839	43	416465	8.836	ppbv	99
26) Hexane	2.826	57	157544	8.260	ppbv	97
27) Carbon Disulfide	2.149	76	211824	10.372	ppbv	99
28) Methyl tert-Butyl Ether	2.441	73	116769	9.344	ppbv	94
29) Chloroform	2.852	83	286397	10.623	ppbv	96
30) Cyclohexane	3.858	84	132615	8.601	ppbv	95
31) cis-1,2-Dichloroethene	2.722	61	174328	9.613	ppbv	99
32) 1,1,1-Trichloroethane	3.369	97	312429	10.294	ppbv	99
34) 2-Butanone	2.560	43	233037	9.278	ppbv	98
35) Carbon Tetrachloride	3.764	117	317207	11.036	ppbv	93
36) Benzene	3.658	78	317350	9.264	ppbv	96
37) 1,2-Dichloroethane	3.221	62	247446	12.035	ppbv #	96
38) Trichloroethene	4.551	130	127601	8.523	ppbv	91
39) 1,2-Dichloropropane	4.318	63	115449	9.044	ppbv	92
40) 1,4-Dioxane	4.586	88	52820	7.529	ppbv #	92
41) Tetrahydrofuran	3.055	42	124059	8.471	ppbv	98
42) Bromodichloromethane	4.493	83	317253	11.088	ppbv	99
43) Methyl Methacrylate	4.887	69	61150	3.961	ppbv #	1
44) 2,2,4-Trimethylpentane	4.641	57	531439	8.983	ppbv	95
45) t-1,3-Dichloropropene	6.418	75	140981	8.940	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042925\
 Data File : VL042438.D
 Acq On : 29 Apr 2025 10:08
 Operator : SY/MD
 Sample : VL0429ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

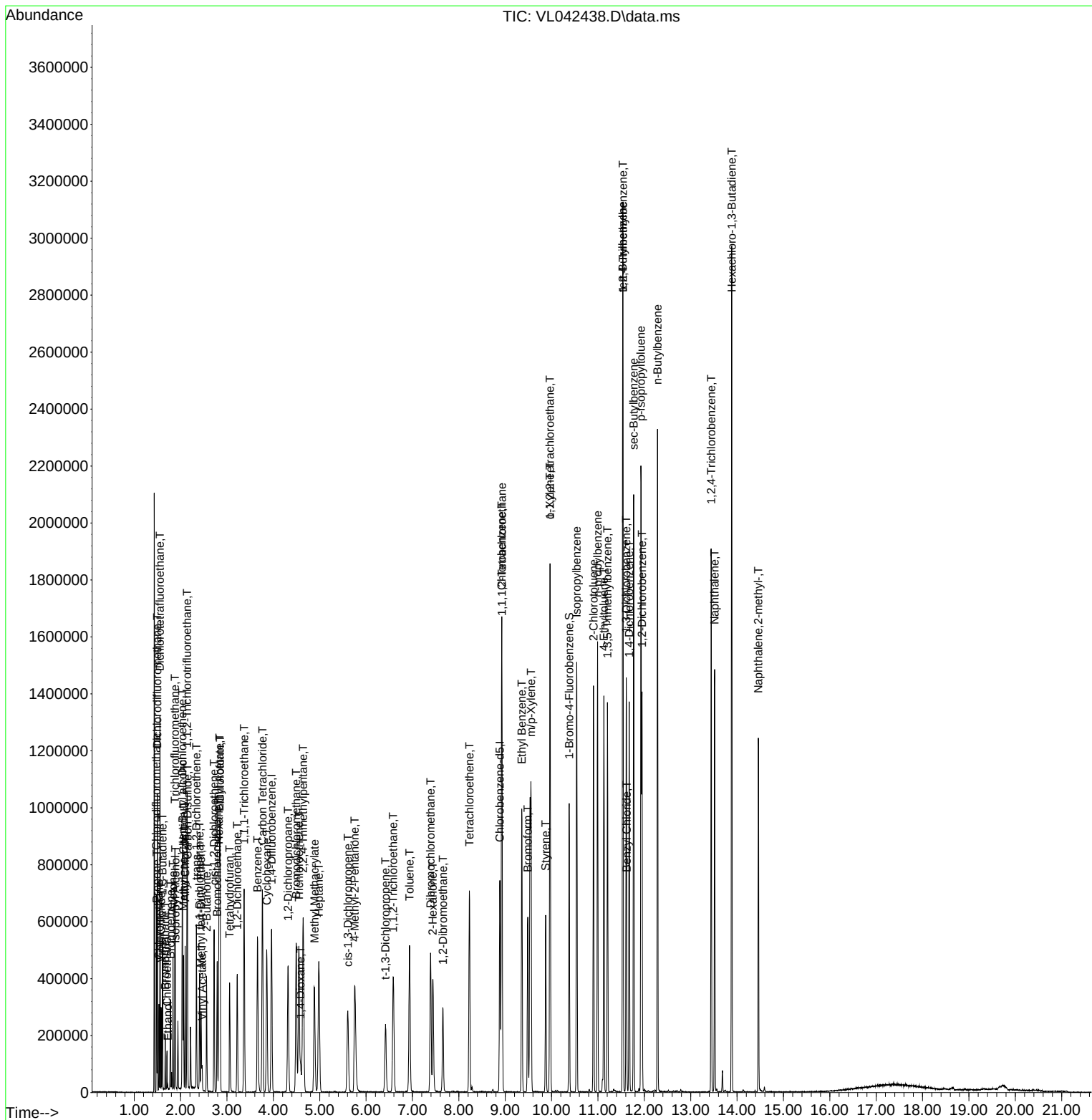
Instrument :
 MSVOA_L
 ClientSampleId :
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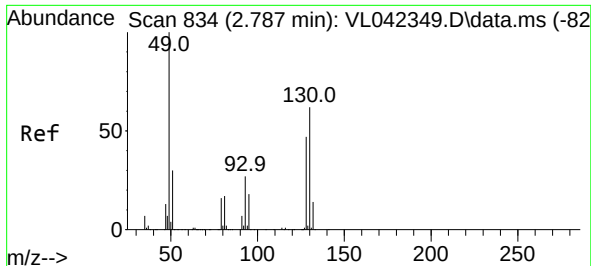
Quant Time: Apr 30 01:17:14 2025
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 02:14:00 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.606	75	170063	8.811	ppbv #	84
47) 1,1,2-Trichloroethane	6.583	97	128662	9.893	ppbv	95
48) Dibromochloromethane	7.389	129	233350	10.156	ppbv	100
49) Bromoform	9.487	173	189484	9.431	ppbv	99
50) 4-Methyl-2-Pentanone	5.755	43	327508	7.846	ppbv	98
51) 2-Hexanone	7.438	43	262697	7.018	ppbv #	95
52) Tetrachloroethene	8.228	164	106031	8.008	ppbv	90
53) Toluene	6.936	91	363707	8.848	ppbv	99
54) 1,2-Dibromoethane	7.658	107	178709	9.601	ppbv	96
56) 1,1,1,2-Tetrachloroethane	8.930	131	180979	10.981	ppbv	96
57) Chlorobenzene	8.924	112	290861	10.270	ppbv	99
58) Ethyl Benzene	9.357	91	545497	10.111	ppbv	98
59) m/p-Xylene	9.555	91	424567	9.768	ppbv #	31
60) o-Xylene	9.966	91	465645	10.639	ppbv	94
61) Styrene	9.872	104	191741	9.178	ppbv	97
62) Isopropylbenzene	10.542	105	667839	10.393	ppbv	97
63) 1,1,2,2-Tetrachloroethane	9.966	83	278491	9.819	ppbv	99
64) n-propylbenzene	10.992	120	161309	9.987	ppbv	91
65) tert-Butylbenzene	11.535	119	605972	10.260	ppbv	98
66) Benzyl Chloride	11.620	91	46913	7.229	ppbv	99
67) sec-Butylbenzene	11.772	105	868275	10.569	ppbv	98
69) p-Isopropyltoluene	11.927	119	733796	10.282	ppbv	96
70) n-Butylbenzene	12.283	91	796622	10.717	ppbv	98
71) 2-Chlorotoluene	10.904	91	534951	10.614	ppbv	96
72) 4-Ethyltoluene	11.128	105	553879	10.351	ppbv	97
73) 1,3,5-Trimethylbenzene	11.205	105	491459	10.403	ppbv	95
74) 1,2,4-Trimethylbenzene	11.539	105	548408	9.939	ppbv #	86
75) 1,3-Dichlorobenzene	11.610	146	284809	9.931	ppbv	97
76) 1,4-Dichlorobenzene	11.675	146	285571	9.907	ppbv	98
77) 1,2-Dichlorobenzene	11.950	146	282424	10.128	ppbv	96
78) Hexachloro-1,3-Butadiene	13.885	225	280954	9.977	ppbv	98
79) Naphthalene	13.516	128	621879	9.425	ppbv	100
80) Naphthalene,2-methyl-	14.458	142	312733	8.317	ppbv	95
81) 1,2,4-Trichlorobenzene	13.442	180	269082	9.498	ppbv	99

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

Quant Time: Apr 30 01:17:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

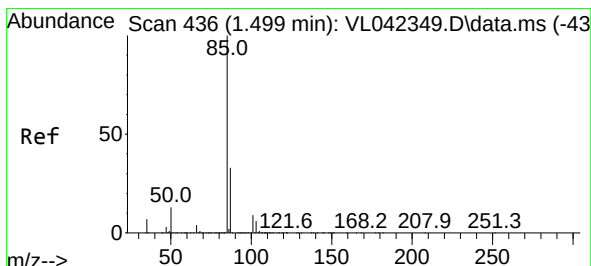
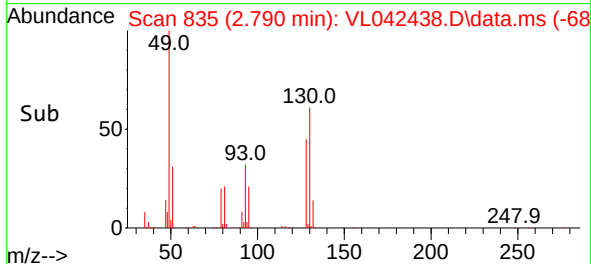
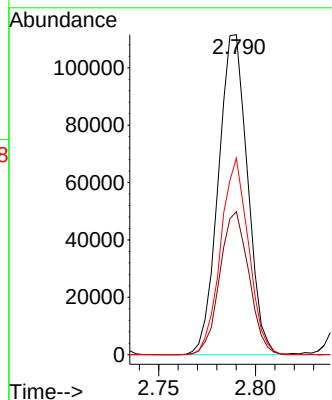
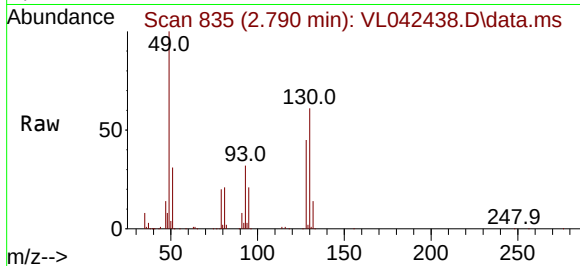




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

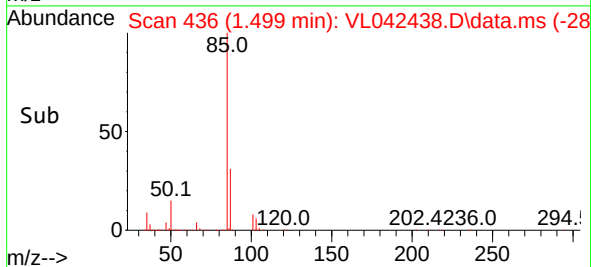
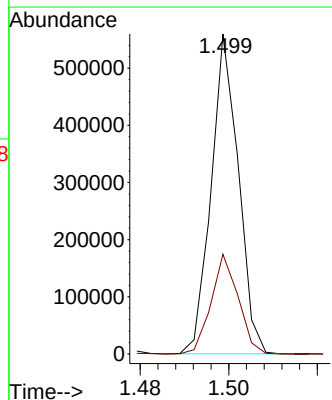
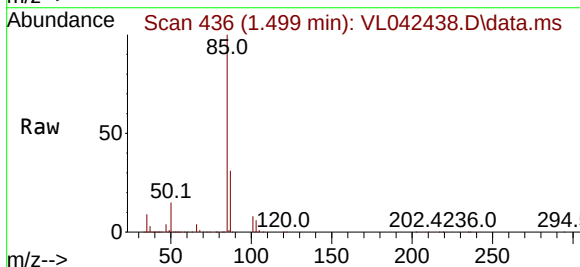
Instrument :
MSVOA_L
ClientSampleId :
VL0429ABS01

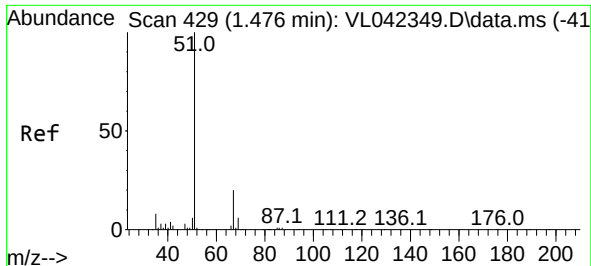
Tgt Ion: 49 Resp: 116772
Ion Ratio Lower Upper
49 100
128 44.5 22.8 68.4
130 58.8 29.3 88.0



#2
Dichlorodifluoromethane
Concen: 11.562 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 85 Resp: 238539
Ion Ratio Lower Upper
85 100
87 31.2 26.6 39.8

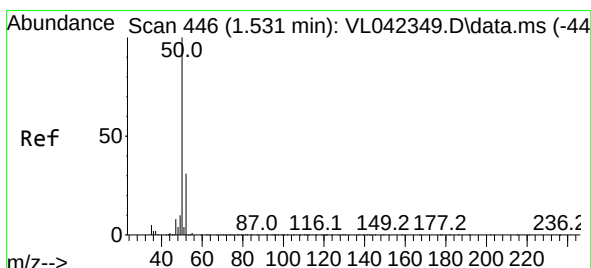
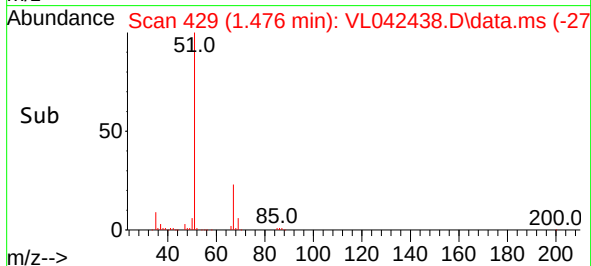
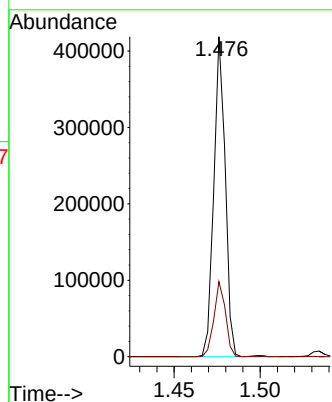
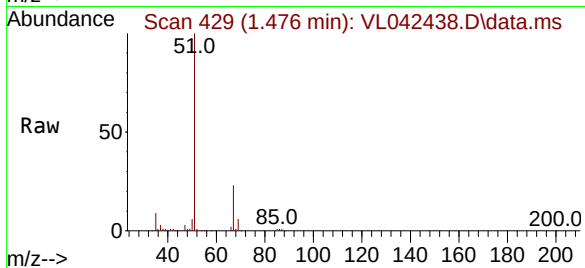




#3
Chlorodifluoromethane
Concen: 9.807 ppbv
RT: 1.476 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

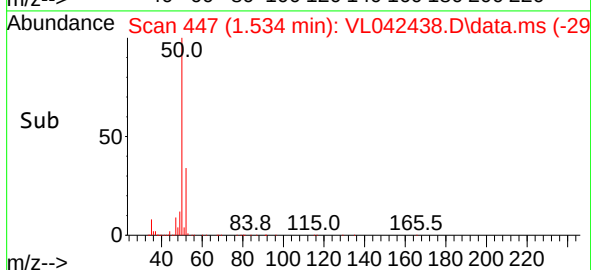
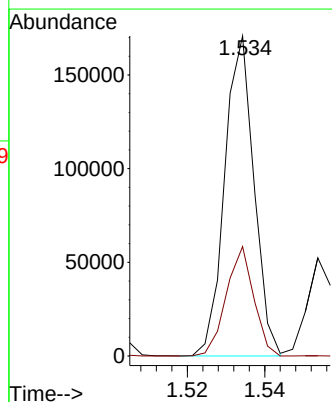
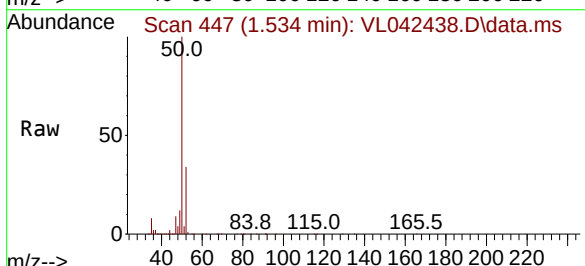
Instrument :
MSVOA_L
ClientSampleId :
VL0429ABS01

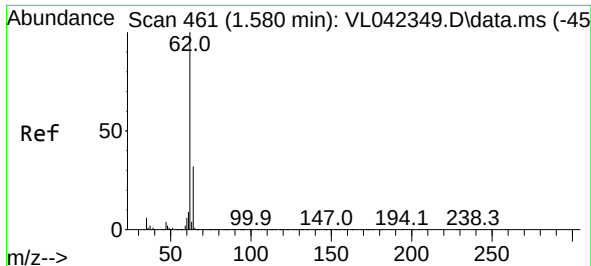
Tgt Ion: 51 Resp: 192670
Ion Ratio Lower Upper
51 100
67 23.8 16.2 24.4



#4
Chloromethane
Concen: 11.003 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 50 Resp: 89832
Ion Ratio Lower Upper
50 100
52 34.2 24.7 37.1

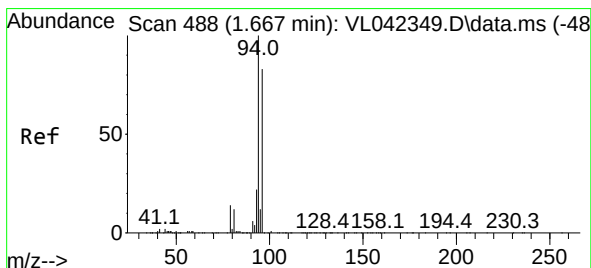
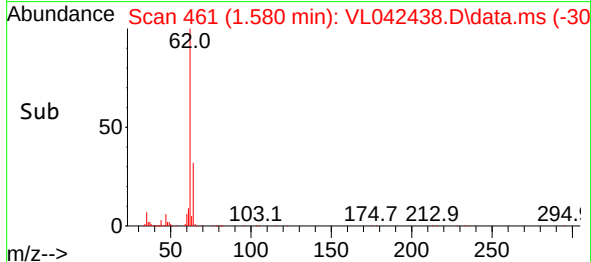
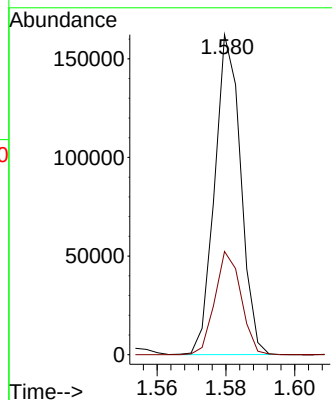
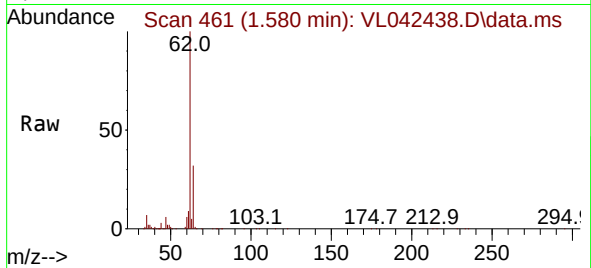




#5
 Vinyl Chloride
 Concen: 9.601 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. -0.000 min
 Lab File: VL042438.D
 Acq: 29 Apr 2025 10:08

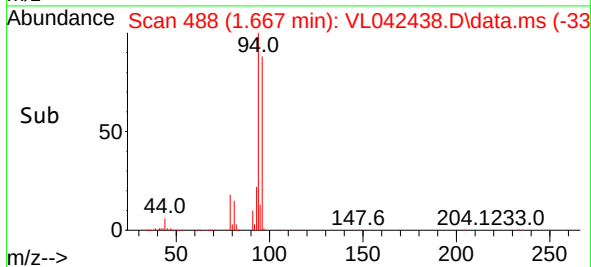
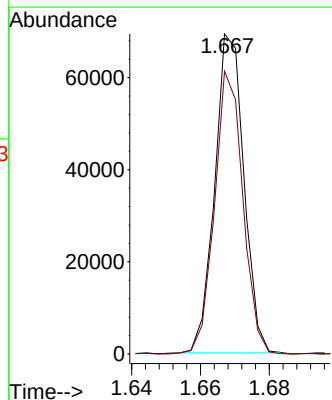
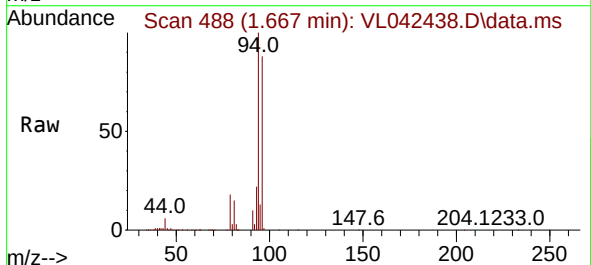
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0429ABS01

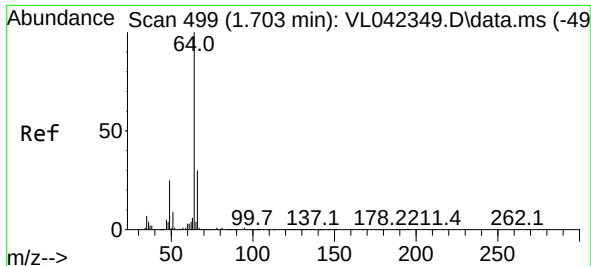
Tgt Ion: 62 Resp: 85334
 Ion Ratio Lower Upper
 62 100
 64 32.3 25.4 38.0



#6
 Bromomethane
 Concen: 10.676 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. -0.000 min
 Lab File: VL042438.D
 Acq: 29 Apr 2025 10:08

Tgt Ion: 94 Resp: 40758
 Ion Ratio Lower Upper
 94 100
 96 88.5 66.2 99.2

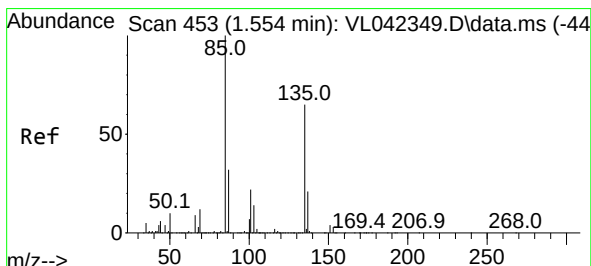
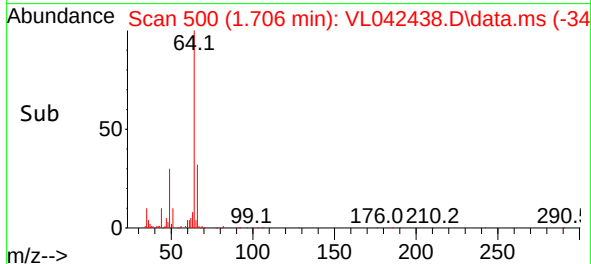
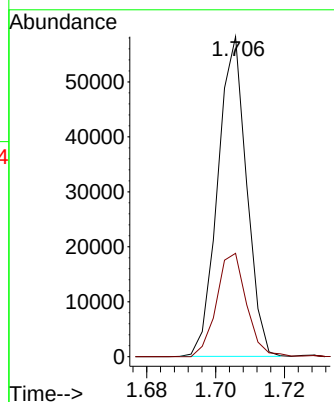
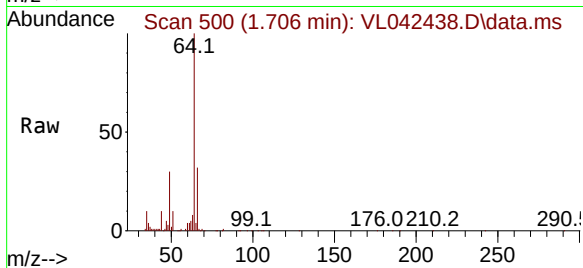




#7
Chloroethane
Concen: 10.502 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

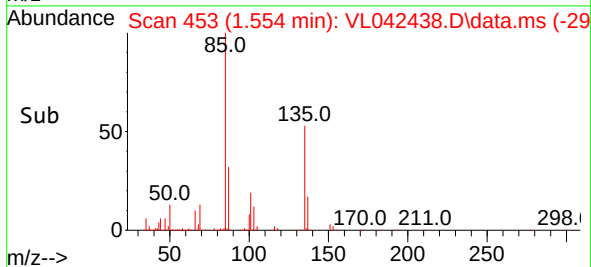
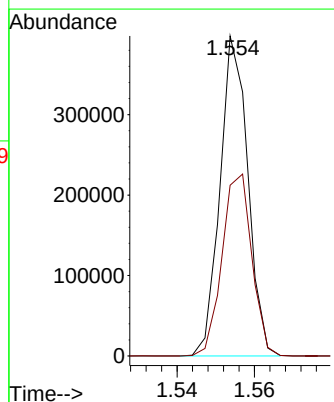
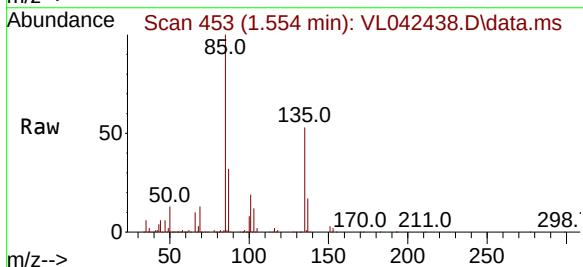
Instrument :
MSVOA_1
ClientSampleId :
VL0429ABS01

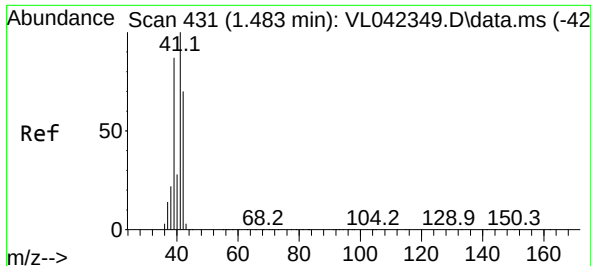
Tgt Ion: 64 Resp: 33756
Ion Ratio Lower Upper
64 100
66 32.3 24.6 37.0



#8
Dichlorotetrafluoroethane
Concen: 11.184 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 85 Resp: 198106
Ion Ratio Lower Upper
85 100
135 61.2 52.2 78.2





#9

Propene

Concen: 7.836 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

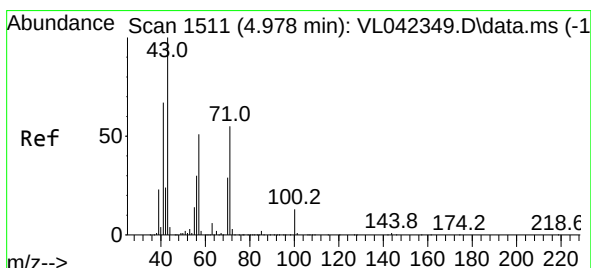
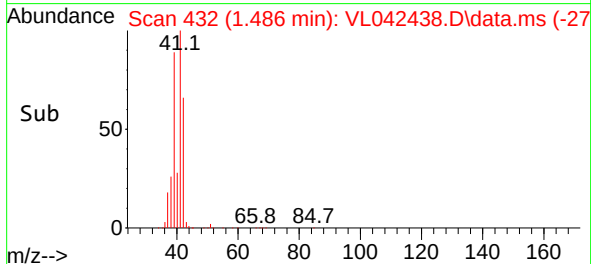
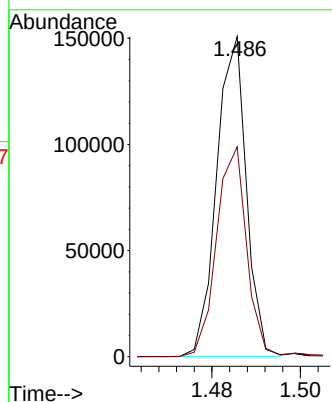
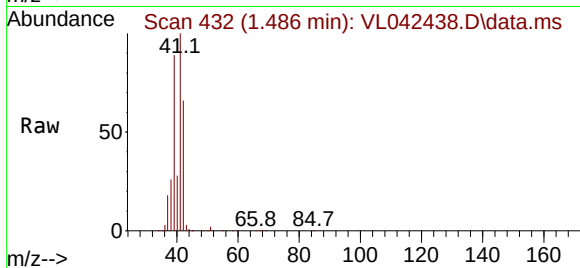
VL0429ABS01

Tgt Ion: 41 Resp: 70111

Ion Ratio Lower Upper

41 100

42 67.7 56.2 84.4



#10

Heptane

Concen: 7.582 ppbv

RT: 4.981 min Scan# 1512

Delta R.T. 0.003 min

Lab File: VL042438.D

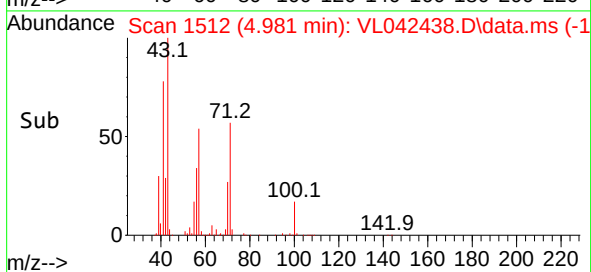
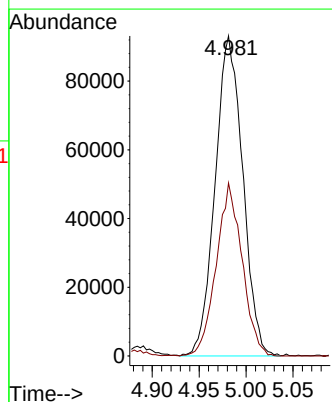
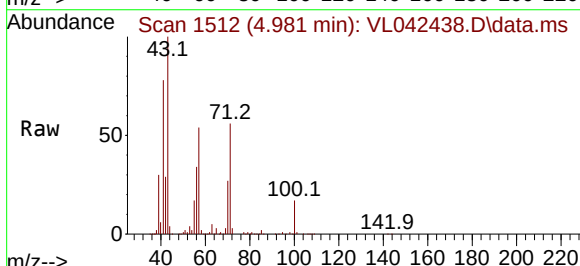
Acq: 29 Apr 2025 10:08

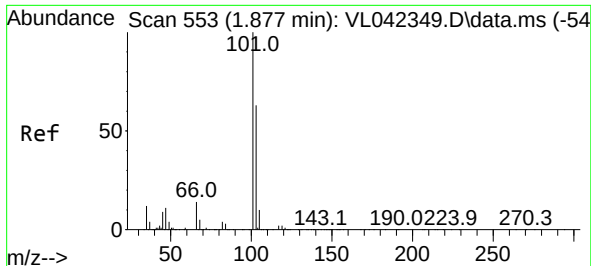
Tgt Ion: 43 Resp: 190583

Ion Ratio Lower Upper

43 100

57 50.6 39.9 59.9

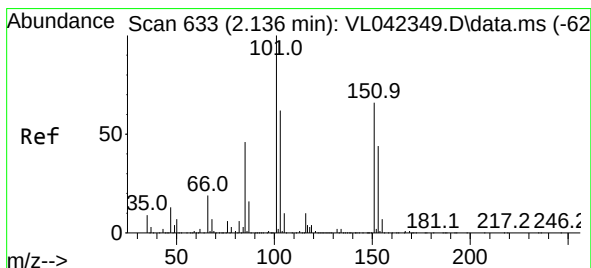
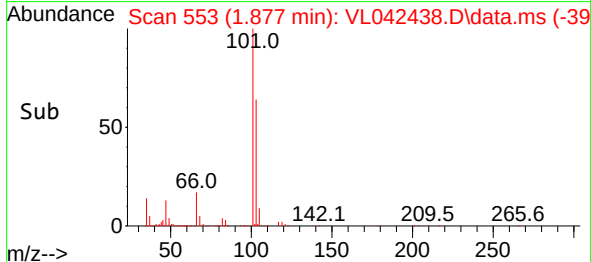
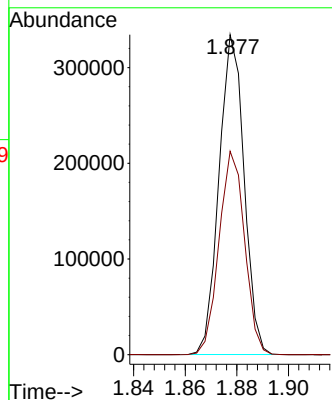
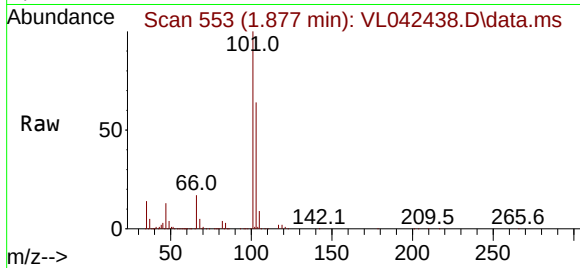




#11
 Trichlorofluoromethane
 Concen: 11.484 ppbv
 RT: 1.877 min Scan# 51
 Delta R.T. -0.000 min
 Lab File: VL042438.D
 Acq: 29 Apr 2025 10:08

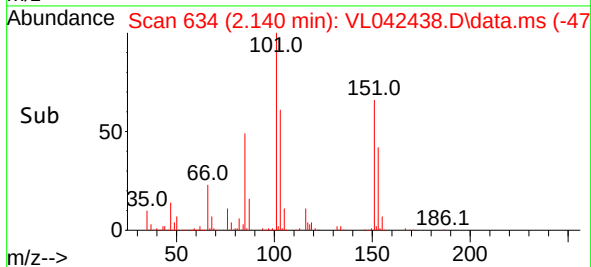
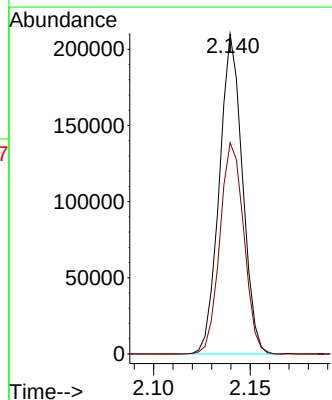
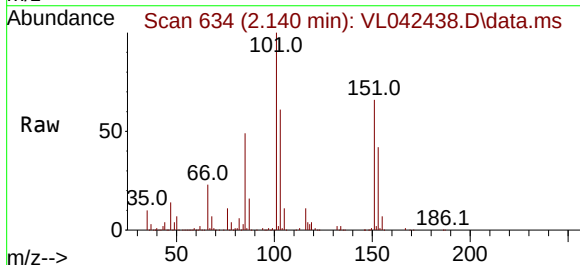
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0429ABS01

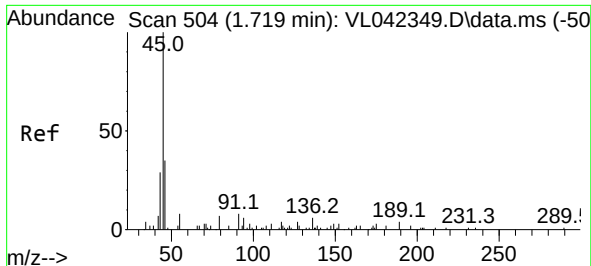
Tgt Ion:101 Resp: 225308
 Ion Ratio Lower Upper
 101 100
 103 63.6 50.1 75.1



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 10.854 ppbv
 RT: 2.140 min Scan# 634
 Delta R.T. 0.003 min
 Lab File: VL042438.D
 Acq: 29 Apr 2025 10:08

Tgt Ion:101 Resp: 174111
 Ion Ratio Lower Upper
 101 100
 151 68.5 57.0 85.6





#13

Ethanol

Concen: 2.909 ppbv

RT: 1.722 min Scan# 504

Delta R.T. 0.003 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

Instrument :

MSVOA_1

ClientSampleId :

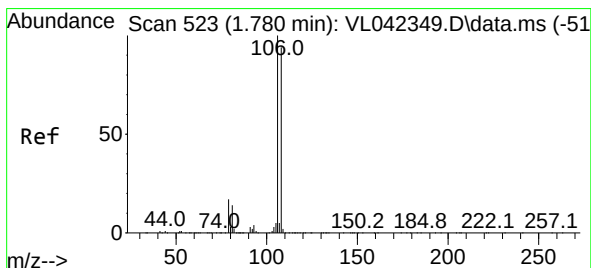
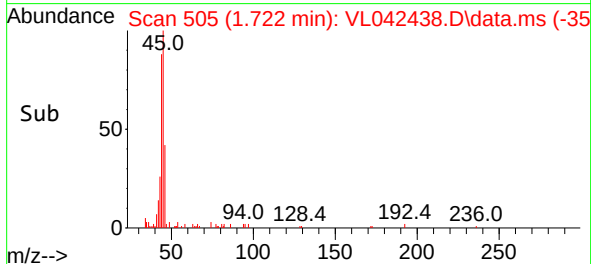
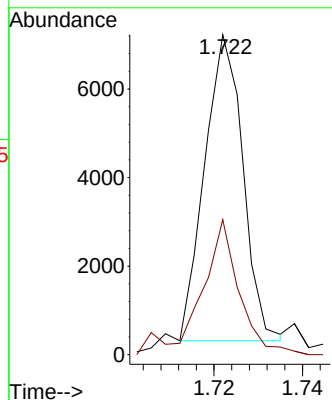
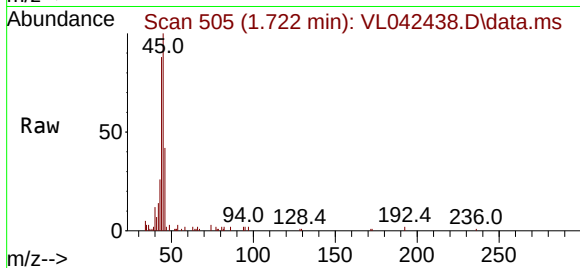
VL0429ABS01

Tgt Ion: 45 Resp: 4137

Ion Ratio Lower Upper

45 100

46 47.5 21.9 87.7



#14

Bromoethene

Concen: 10.674 ppbv

RT: 1.783 min Scan# 524

Delta R.T. 0.003 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

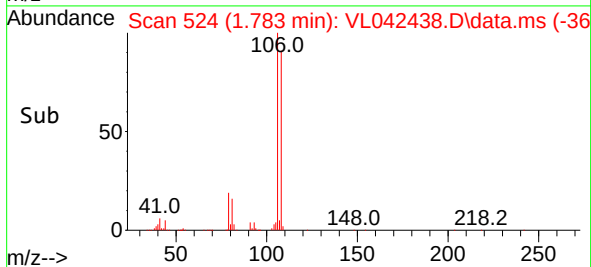
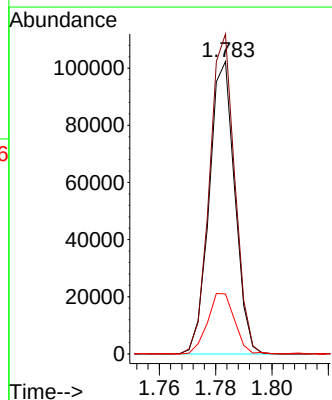
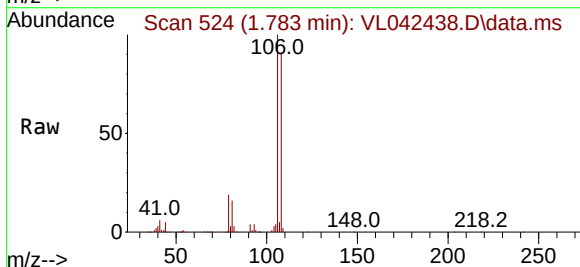
Tgt Ion: 108 Resp: 64544

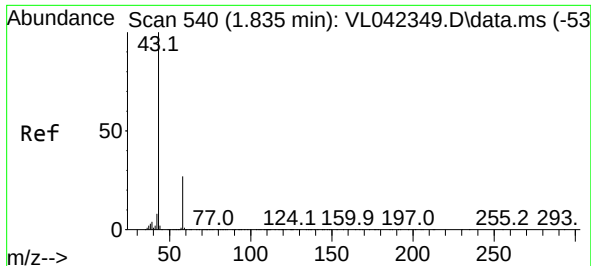
Ion Ratio Lower Upper

108 100

106 108.0 85.9 128.9

79 22.1 13.9 20.9#

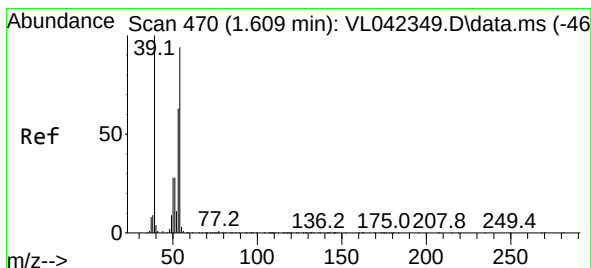
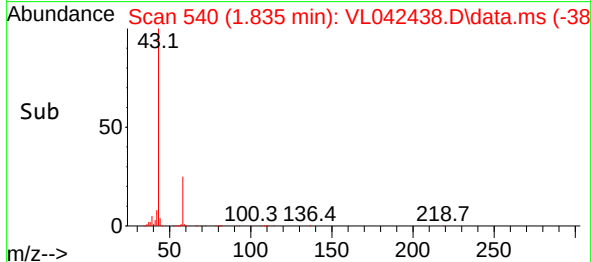
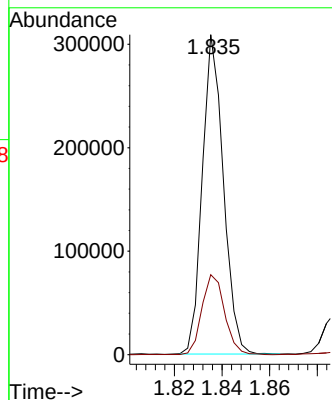
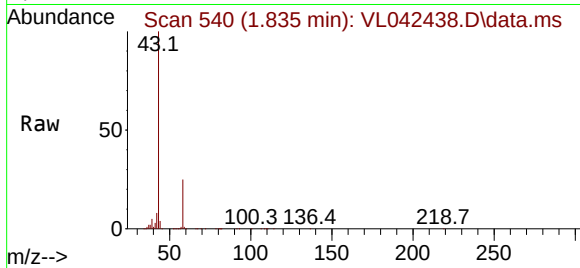




#15
Acetone
Concen: 9.910 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

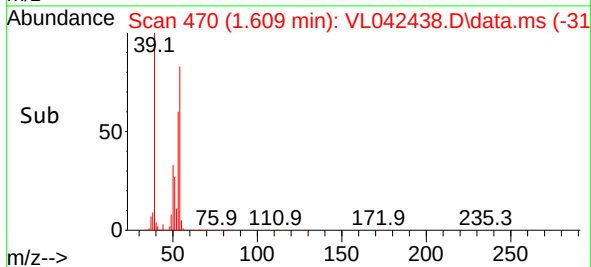
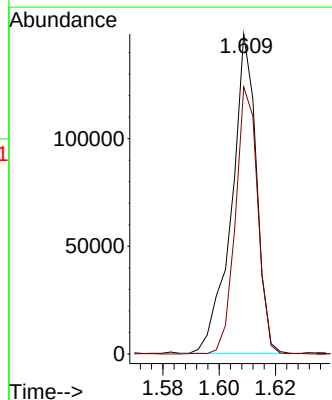
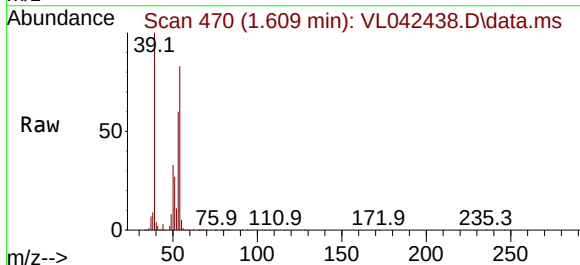
Instrument :
MSVOA_1
ClientSampleId :
VL0429ABS01

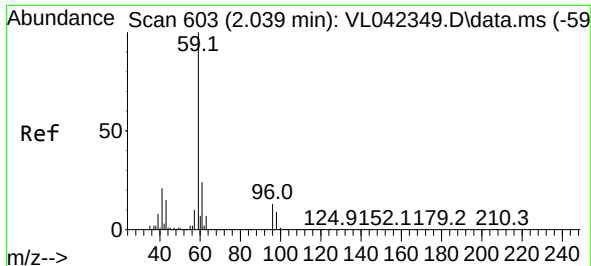
Tgt Ion: 43 Resp: 189432
Ion Ratio Lower Upper
43 100
58 27.1 22.4 33.6



#16
1,3-Butadiene
Concen: 9.895 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 39 Resp: 90473
Ion Ratio Lower Upper
39 100
54 75.1 64.9 97.3





#17

tert-Butyl alcohol

Concen: 9.718 ppbv

RT: 2.042 min Scan# 604

Delta R.T. 0.003 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

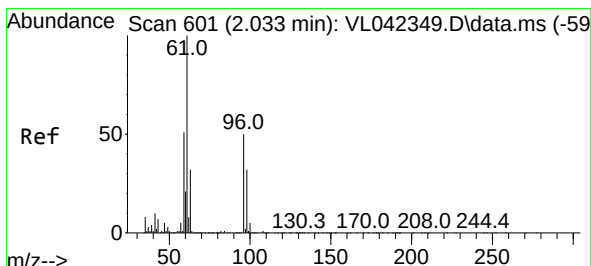
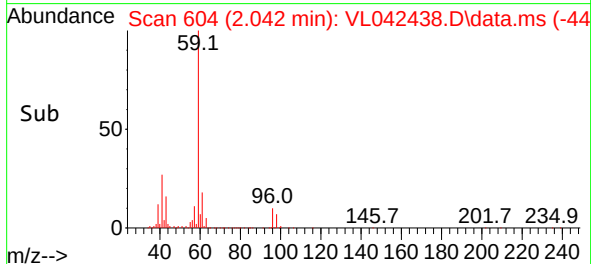
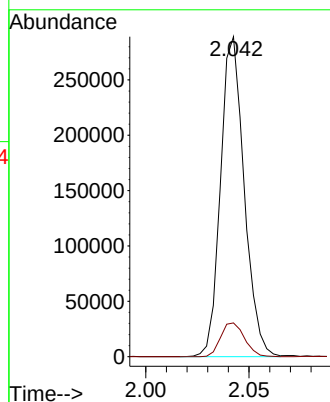
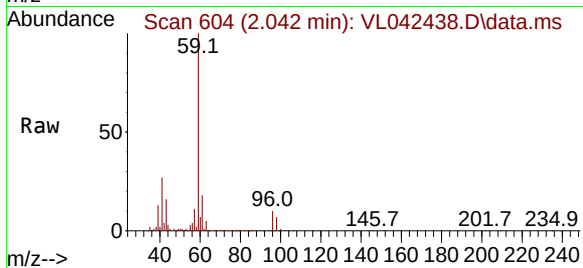
VL0429ABS01

Tgt Ion: 59 Resp: 230217

Ion Ratio Lower Upper

59 100

57 10.7 8.7 13.1



#18

1,1-Dichloroethene

Concen: 10.241 ppbv

RT: 2.036 min Scan# 602

Delta R.T. 0.003 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

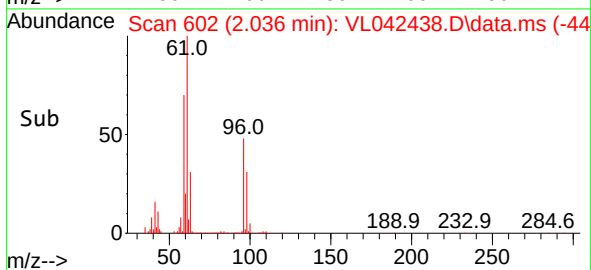
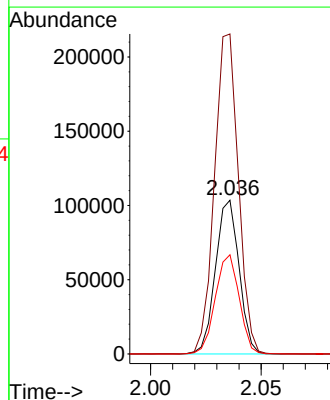
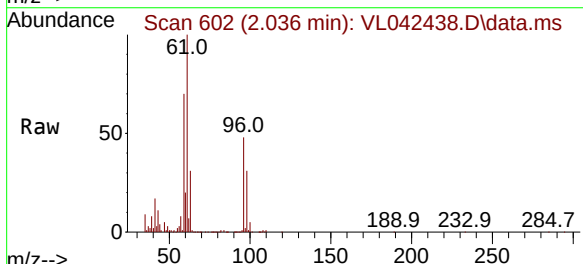
Tgt Ion: 96 Resp: 76749

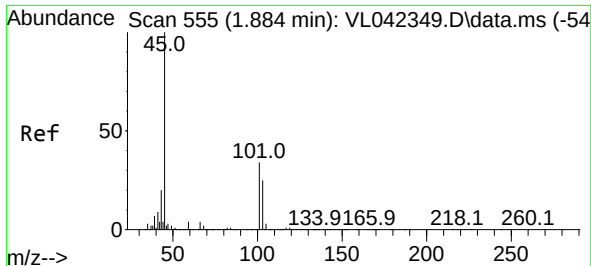
Ion Ratio Lower Upper

96 100

61 208.1 160.2 240.2

98 64.5 51.0 76.4

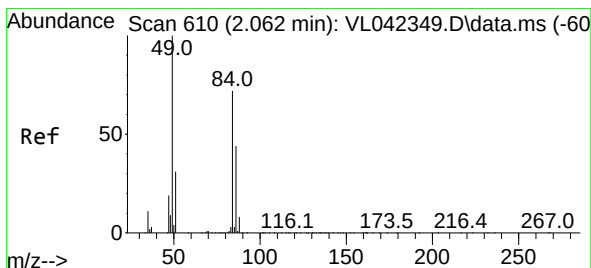
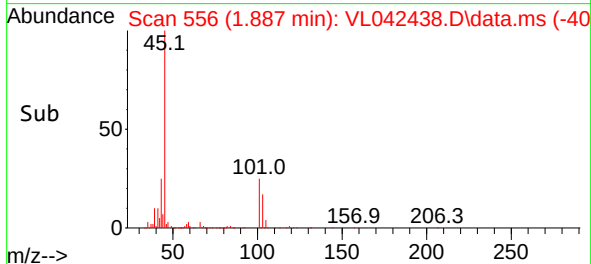
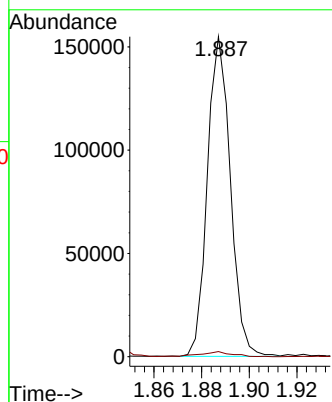
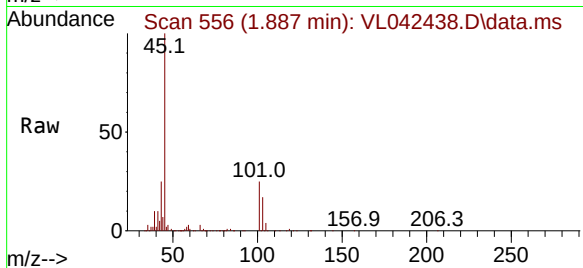




#19
Isopropyl Alcohol
Concen: 9.765 ppbv
RT: 1.887 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

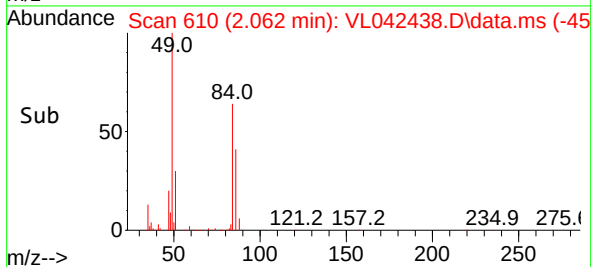
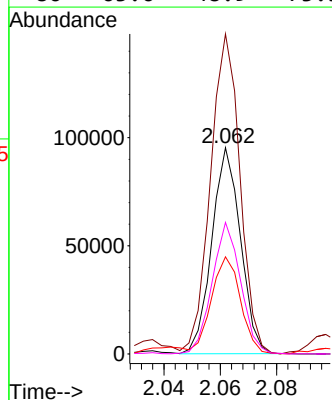
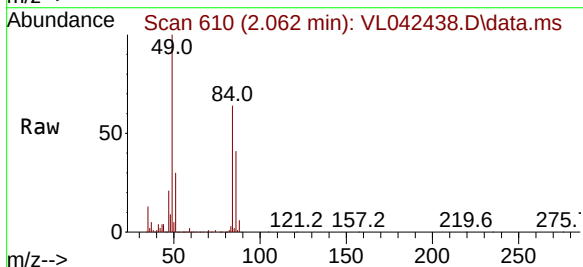
Instrument :
MSVOA_1
ClientSampleId :
VL0429ABS01

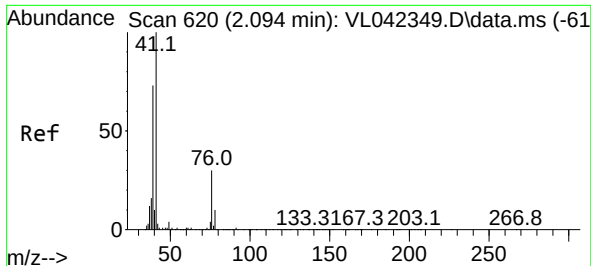
Tgt Ion: 45 Resp: 103692
Ion Ratio Lower Upper
45 100
58 2.2 34.5 51.7#



#20
Methylene Chloride
Concen: 8.989 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 84 Resp: 67298
Ion Ratio Lower Upper
84 100
49 155.2 111.6 167.4
51 47.0 35.1 52.7
86 63.6 48.9 73.3

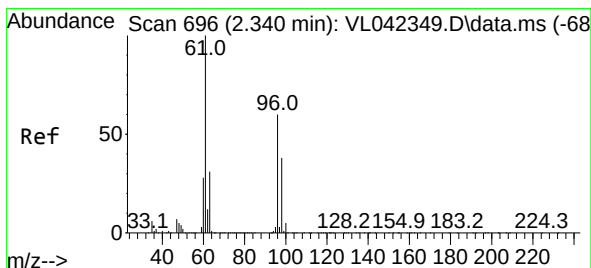
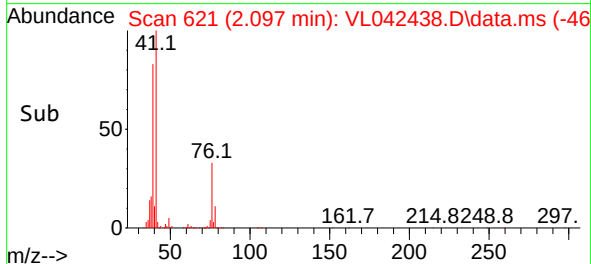
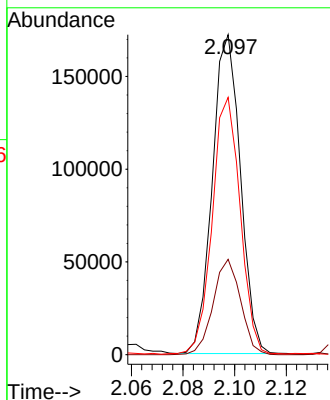
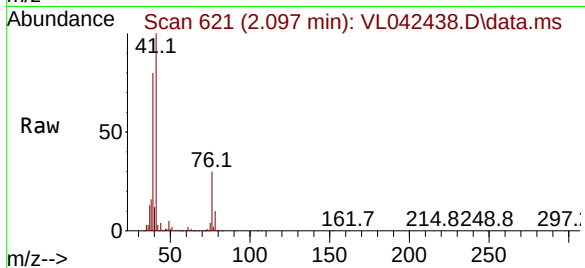




#21
 Allyl Chloride
 Concen: 9.851 ppbv
 RT: 2.097 min Scan# 61
 Delta R.T. 0.003 min
 Lab File: VL042438.D
 Acq: 29 Apr 2025 10:08

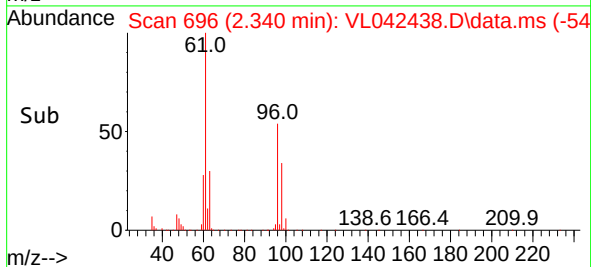
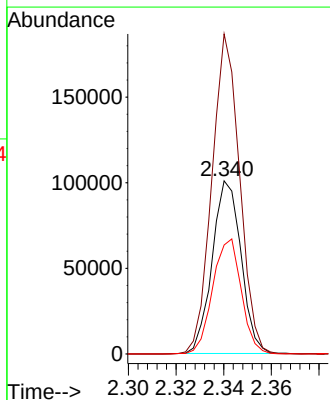
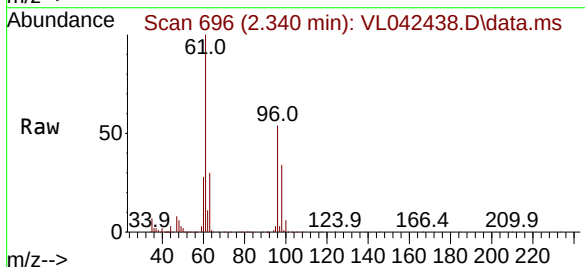
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0429ABS01

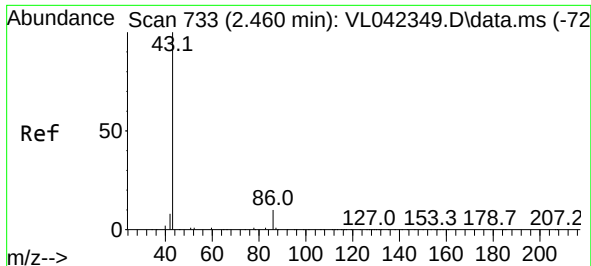
Tgt Ion: 41 Resp: 130014
 Ion Ratio Lower Upper
 41 100
 76 29.2 24.8 37.2
 39 80.1 60.6 90.8



#22
 trans-1,2-Dichloroethene
 Concen: 9.938 ppbv
 RT: 2.340 min Scan# 696
 Delta R.T. -0.000 min
 Lab File: VL042438.D
 Acq: 29 Apr 2025 10:08

Tgt Ion: 96 Resp: 84797
 Ion Ratio Lower Upper
 96 100
 61 185.1 133.7 200.5
 98 63.1 50.3 75.5

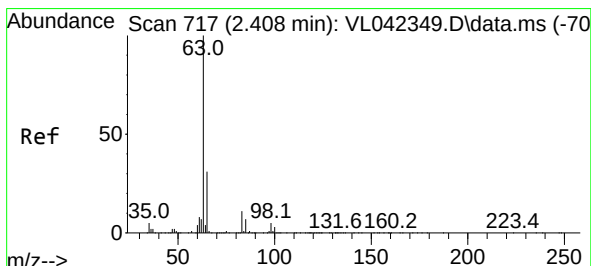
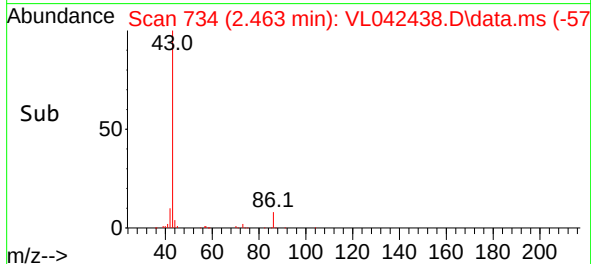
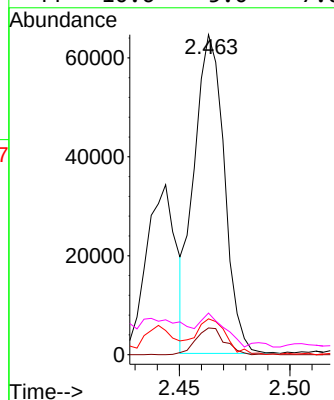
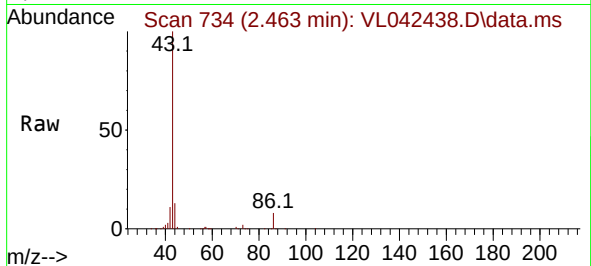




#23
 Vinyl Acetate
 Concen: 7.888 ppbv
 RT: 2.463 min Scan# 717
 Delta R.T. 0.003 min
 Lab File: VL042438.D
 Acq: 29 Apr 2025 10:08

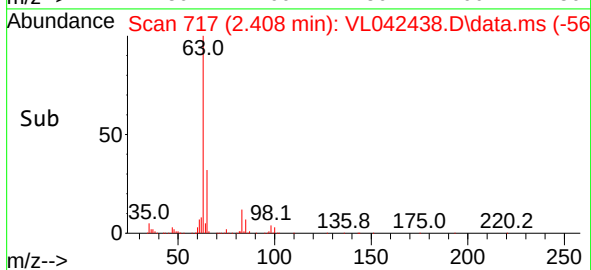
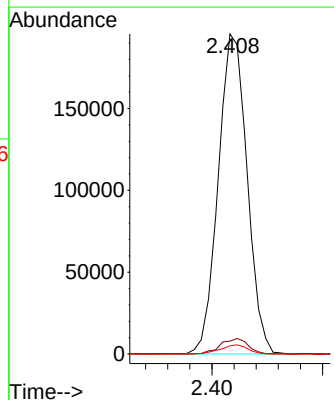
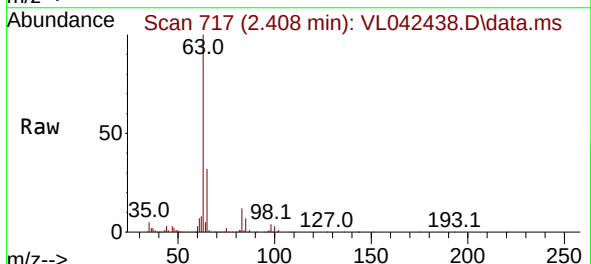
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0429ABS01

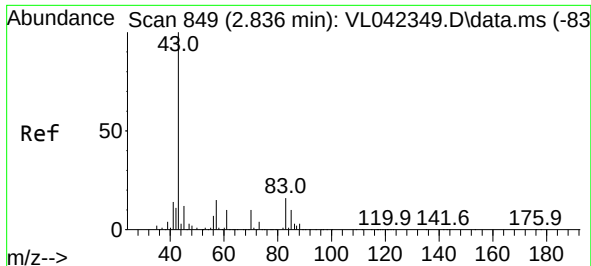
Tgt Ion: 43	Resp: 61036
Ion Ratio	Lower Upper
43 100	
86 8.4	6.5 9.7
42 11.0	7.8 11.8
44 10.6	5.0 7.6#



#24
 1,1-Dichloroethane
 Concen: 10.934 ppbv
 RT: 2.408 min Scan# 717
 Delta R.T. -0.000 min
 Lab File: VL042438.D
 Acq: 29 Apr 2025 10:08

Tgt Ion: 63	Resp: 177233
Ion Ratio	Lower Upper
63 100	
98 4.0	2.3 6.8
100 2.6	1.6 4.8



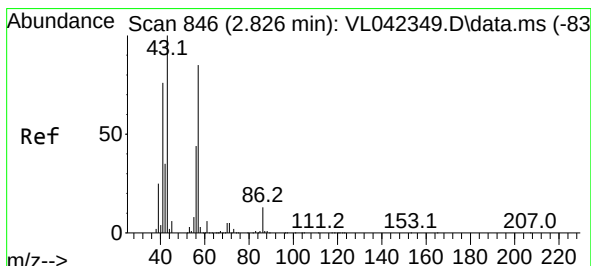
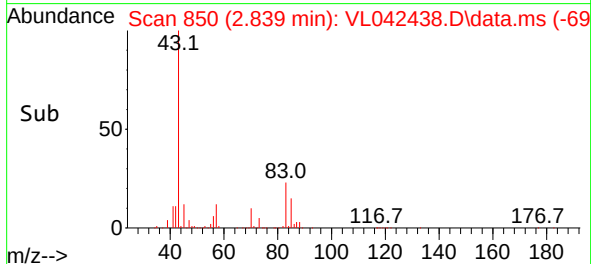
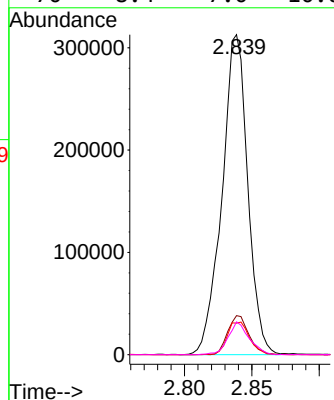
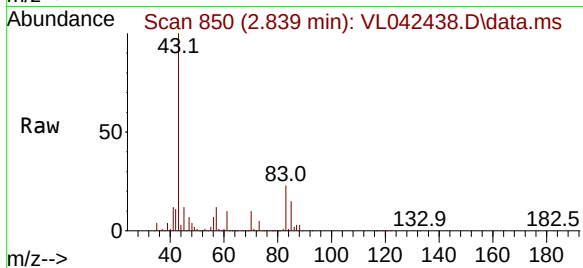


#25
Ethyl Acetate
Concen: 8.836 ppbv
RT: 2.839 min Scan# 849
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :
VL0429ABS01

Tgt Ion: 43 Resp: 416465

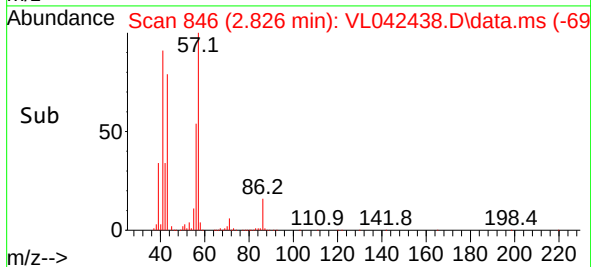
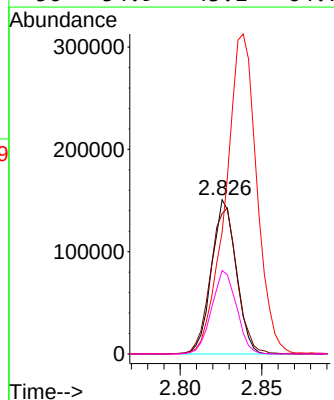
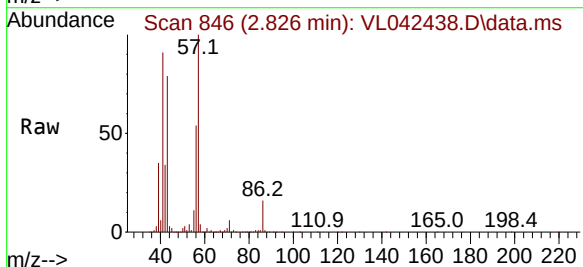
Ion	Ratio	Lower	Upper
43	100		
45	10.0	8.3	12.5
61	8.8	7.3	10.9
70	8.4	7.0	10.6

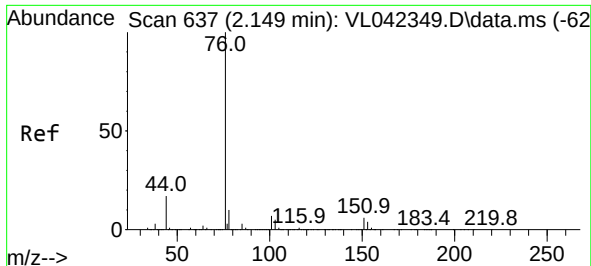


#26
Hexane
Concen: 8.260 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 57 Resp: 157544

Ion	Ratio	Lower	Upper
57	100		
41	103.2	77.9	116.9
43	265.6	208.4	312.6
56	54.9	43.1	64.7

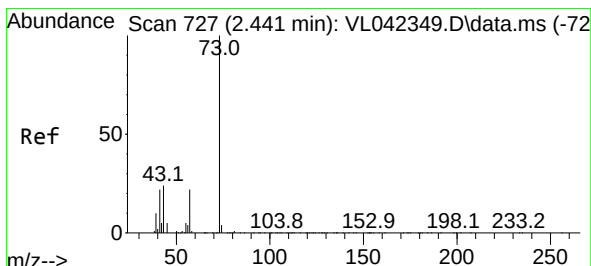
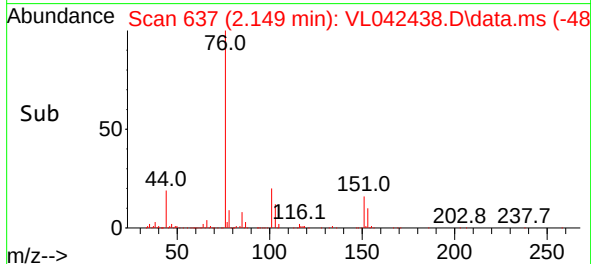
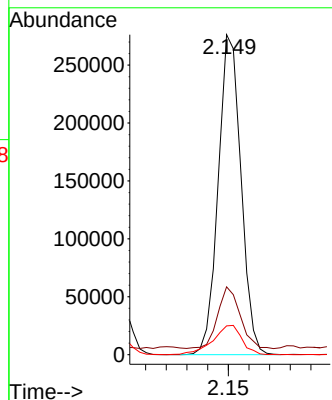
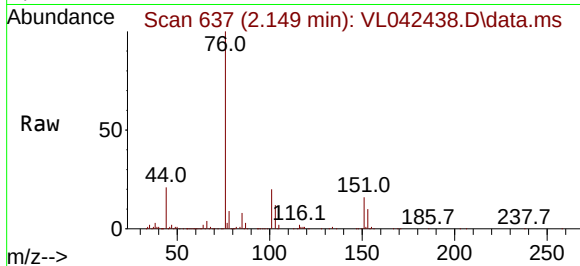




#27
Carbon Disulfide
Concen: 10.372 ppbv
RT: 2.149 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

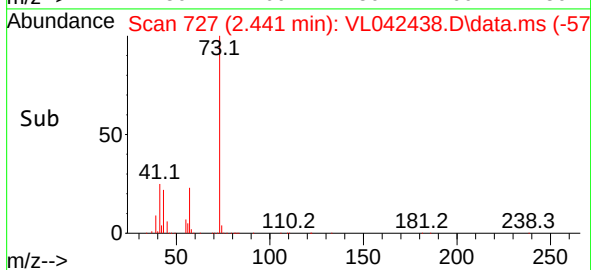
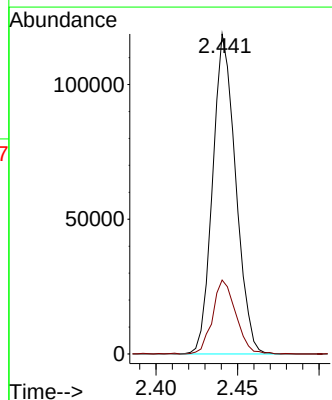
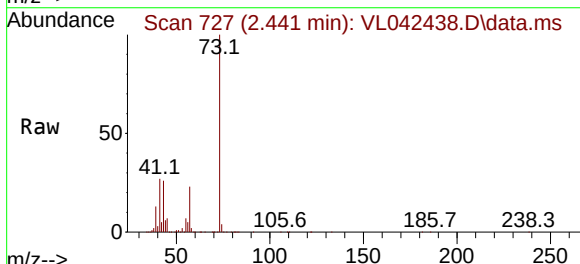
Instrument :
MSVOA_L
ClientSampleId :
VL0429ABS01

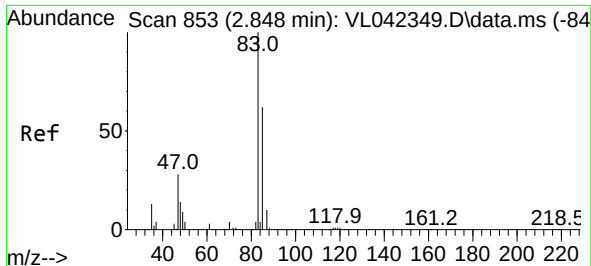
Tgt Ion: 76 Resp: 211824
Ion Ratio Lower Upper
76 100
44 19.8 15.5 23.3
78 11.7 9.3 13.9



#28
Methyl tert-Butyl Ether
Concen: 9.344 ppbv
RT: 2.441 min Scan# 727
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 73 Resp: 116769
Ion Ratio Lower Upper
73 100
57 23.4 21.3 31.9





#29

Chloroform

Concen: 10.623 ppbv

RT: 2.852 min Scan# 854

Delta R.T. 0.003 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

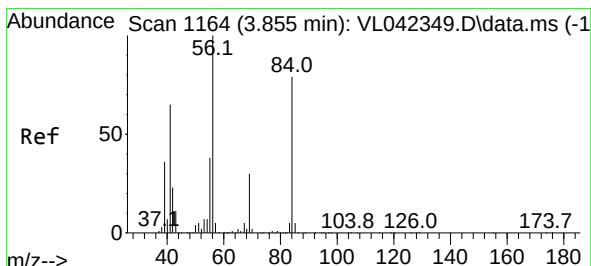
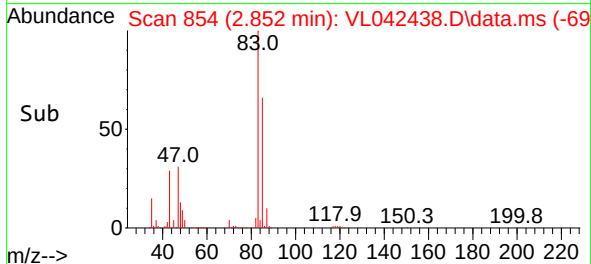
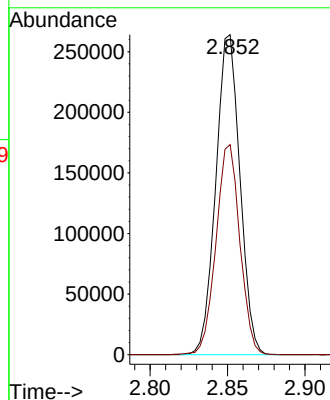
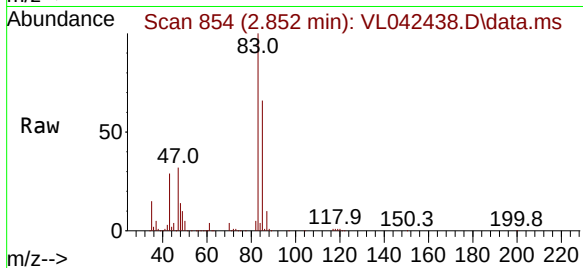
VL0429ABS01

Tgt Ion: 83 Resp: 286397

Ion Ratio Lower Upper

83 100

85 65.6 50.0 75.0



#30

Cyclohexane

Concen: 8.601 ppbv

RT: 3.858 min Scan# 1165

Delta R.T. 0.003 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

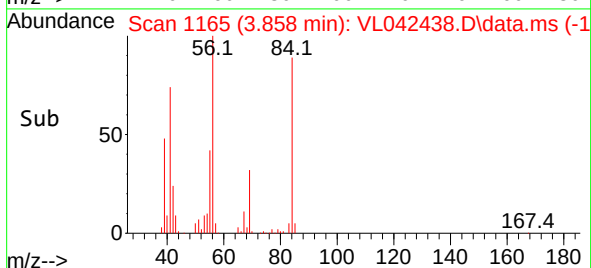
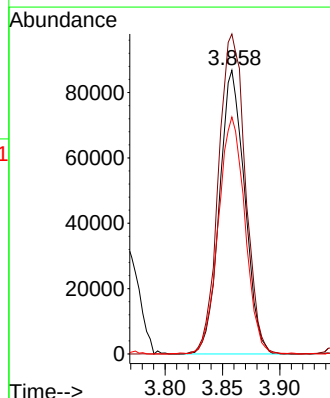
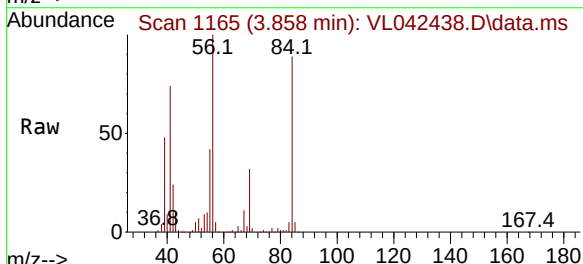
Tgt Ion: 84 Resp: 132615

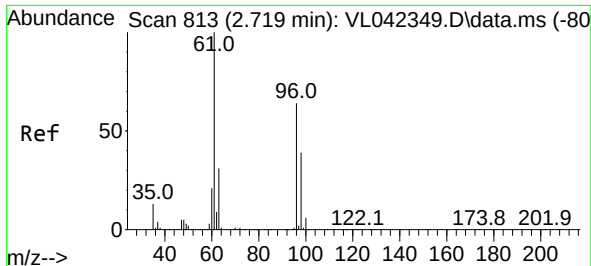
Ion Ratio Lower Upper

84 100

56 119.9 101.0 151.4

41 88.0 67.4 101.0

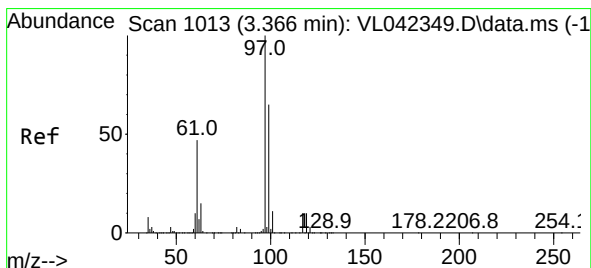
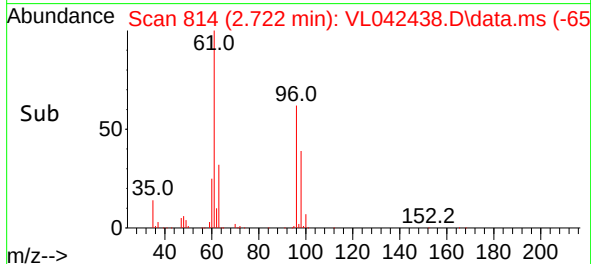
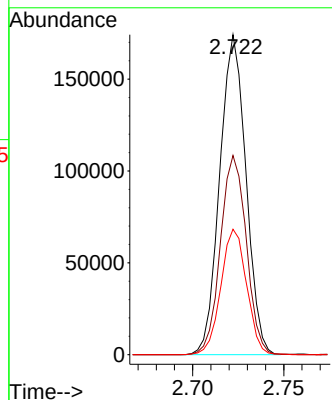
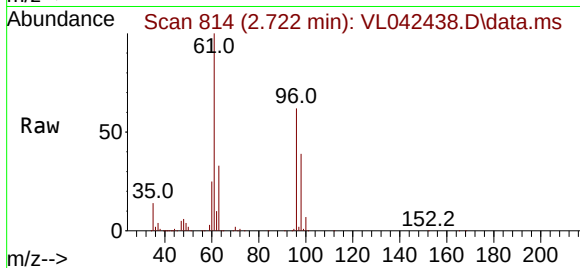




#31
 cis-1,2-Dichloroethene
 Concen: 9.613 ppbv
 RT: 2.722 min Scan# 813
 Delta R.T. 0.003 min
 Lab File: VL042438.D
 Acq: 29 Apr 2025 10:08

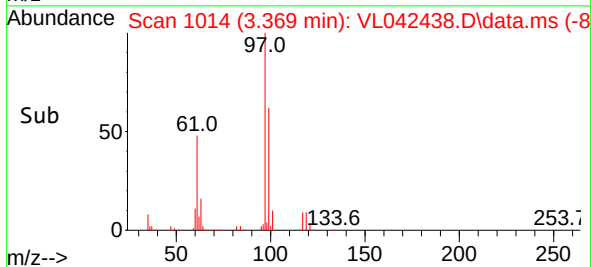
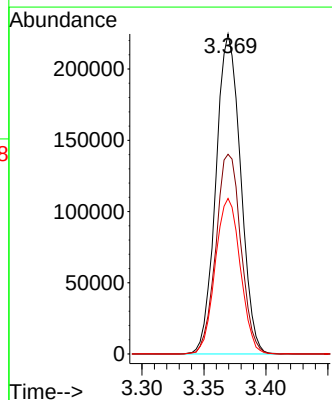
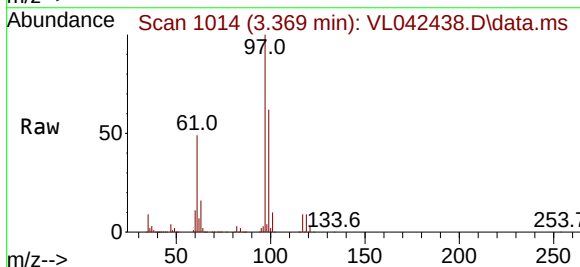
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0429ABS01

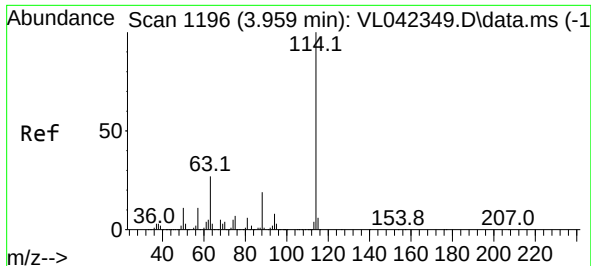
Tgt Ion: 61 Resp: 174328
 Ion Ratio Lower Upper
 61 100
 96 62.3 50.8 76.2
 98 39.2 30.9 46.3



#32
 1,1,1-Trichloroethane
 Concen: 10.294 ppbv
 RT: 3.369 min Scan# 1014
 Delta R.T. 0.003 min
 Lab File: VL042438.D
 Acq: 29 Apr 2025 10:08

Tgt Ion: 97 Resp: 312429
 Ion Ratio Lower Upper
 97 100
 99 63.2 51.0 76.4
 61 49.4 38.8 58.2

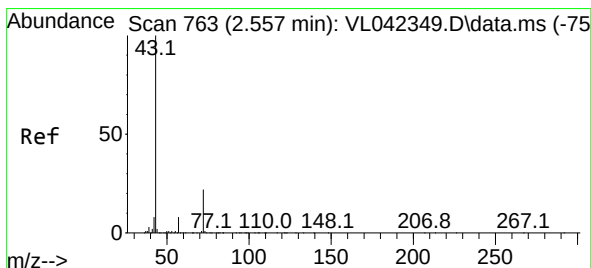
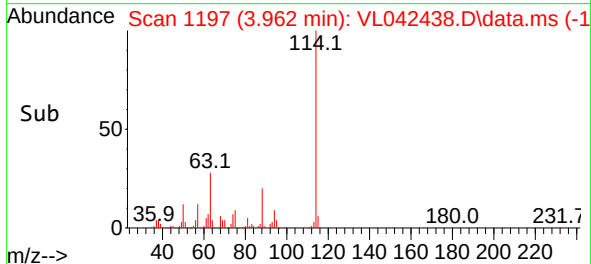
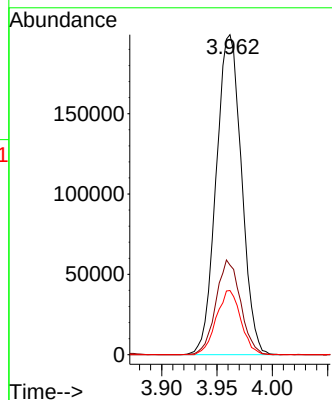
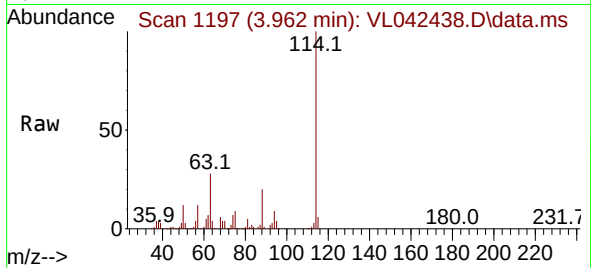




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.962 min Scan# 1196
 Delta R.T. 0.003 min
 Lab File: VL042438.D
 Acq: 29 Apr 2025 10:08

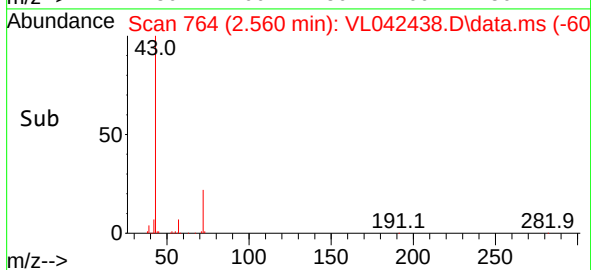
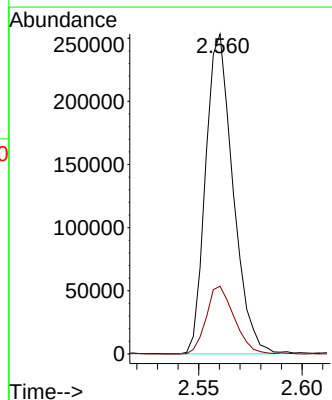
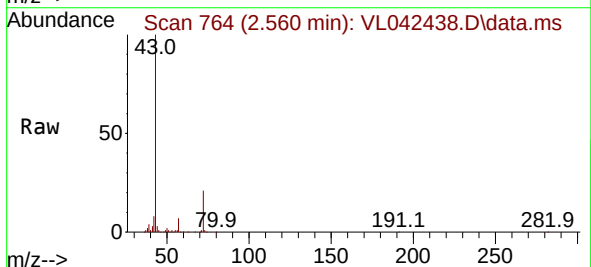
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0429ABS01

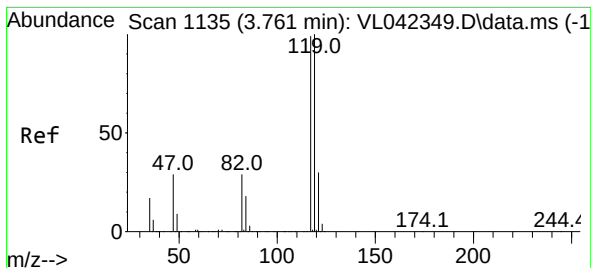
Tgt Ion:114 Resp: 317590
 Ion Ratio Lower Upper
 114 100
 63 28.7 21.8 32.6
 88 19.4 15.5 23.3



#34
 2-Butanone
 Concen: 9.278 ppbv
 RT: 2.560 min Scan# 764
 Delta R.T. 0.003 min
 Lab File: VL042438.D
 Acq: 29 Apr 2025 10:08

Tgt Ion: 43 Resp: 233037
 Ion Ratio Lower Upper
 43 100
 72 21.7 18.2 27.2





#35

Carbon Tetrachloride

Concen: 11.036 ppbv

RT: 3.764 min Scan# 1135

Delta R.T. 0.003 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

VL0429ABS01

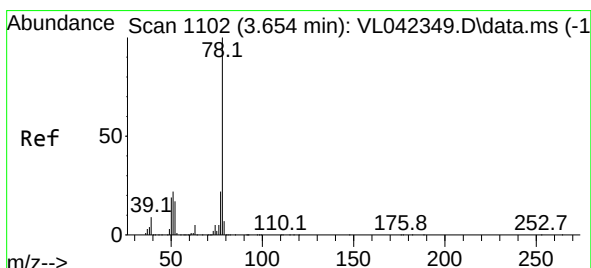
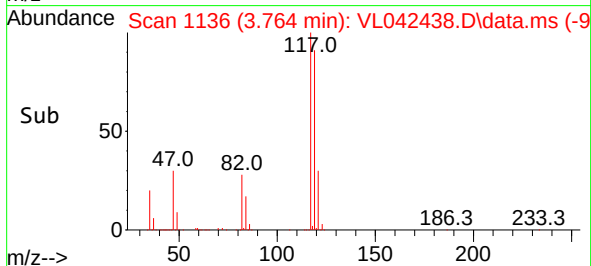
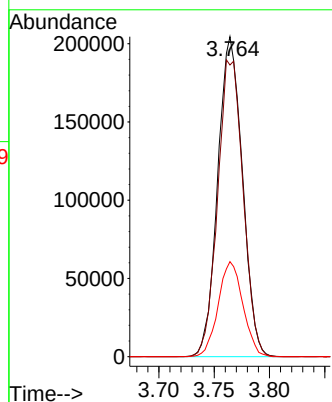
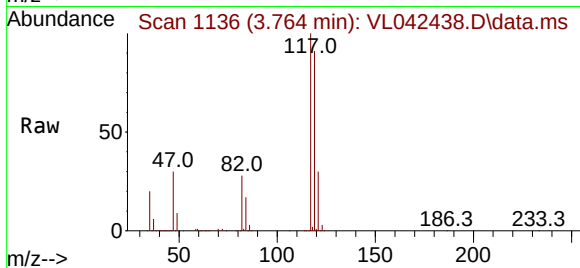
Tgt Ion:117 Resp: 317207

Ion Ratio Lower Upper

117 100

119 91.1 80.5 120.7

121 29.7 24.2 36.2



#36

Benzene

Concen: 9.264 ppbv

RT: 3.658 min Scan# 1103

Delta R.T. 0.003 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

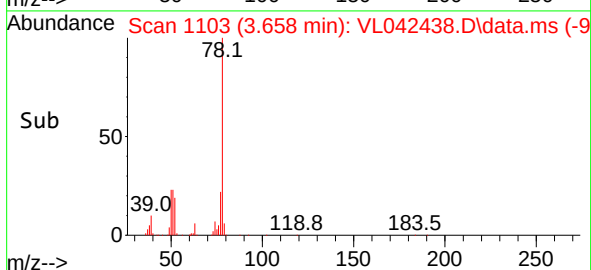
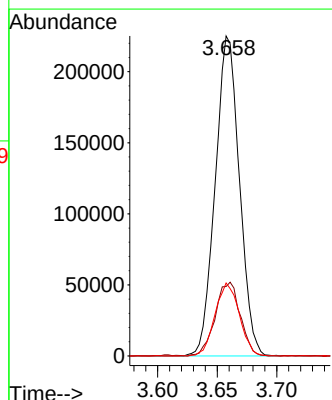
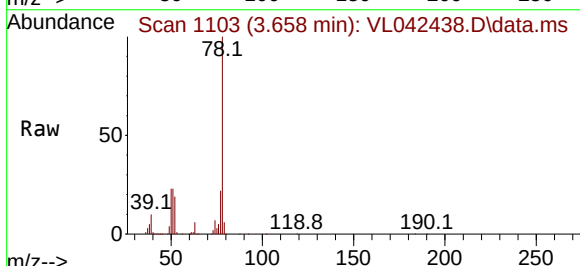
Tgt Ion: 78 Resp: 317350

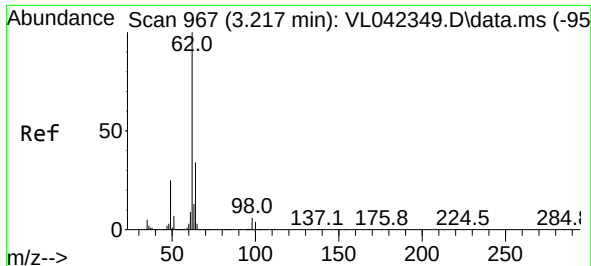
Ion Ratio Lower Upper

78 100

77 21.7 17.4 26.0

50 22.8 15.5 23.3





#37

1,2-Dichloroethane

Concen: 12.035 ppbv

RT: 3.221 min Scan# 9

Delta R.T. 0.003 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

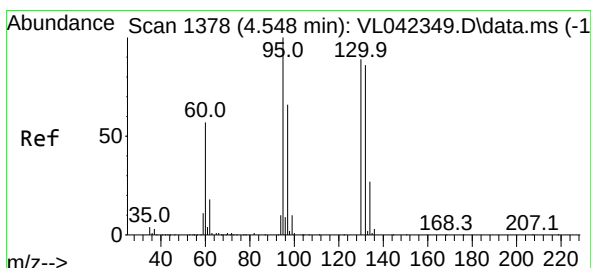
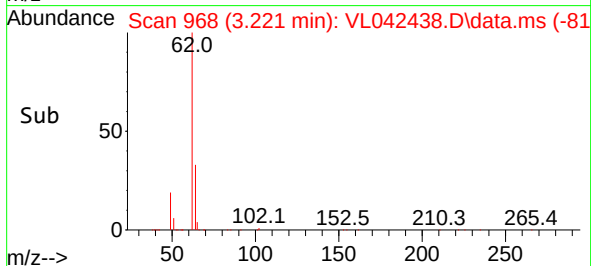
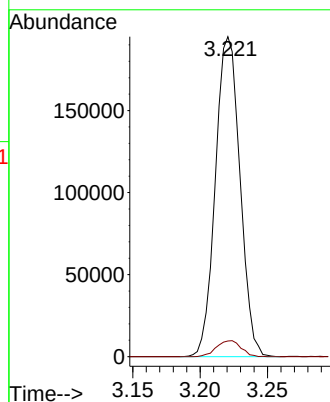
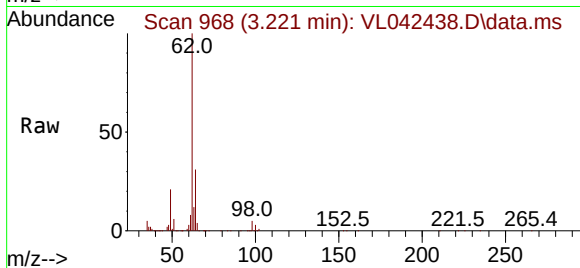
VL0429ABS01

Tgt Ion: 62 Resp: 247446

Ion Ratio Lower Upper

62 100

98 5.0 5.1 7.7#



#38

Trichloroethene

Concen: 8.523 ppbv

RT: 4.551 min Scan# 1379

Delta R.T. 0.003 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

Tgt Ion:130 Resp: 127601

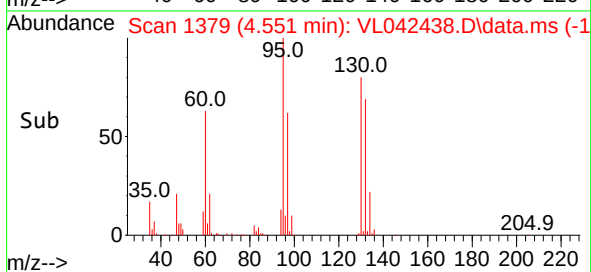
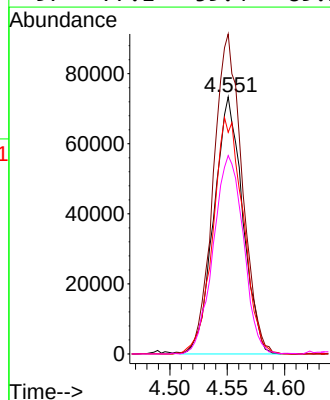
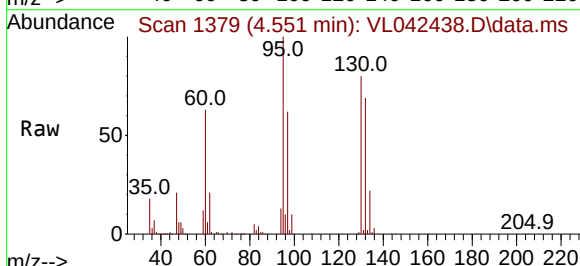
Ion Ratio Lower Upper

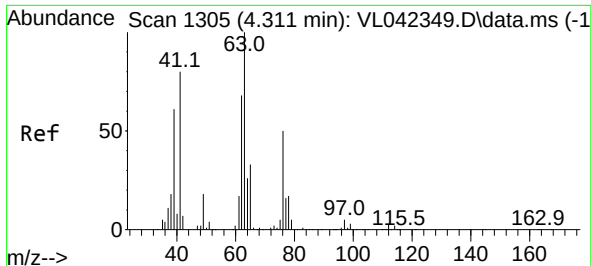
130 100

95 124.2 89.8 134.6

132 86.0 77.7 116.5

97 77.1 59.4 89.2





#39

1,2-Dichloropropane

Concen: 9.044 ppbv

RT: 4.318 min Scan# 11

Delta R.T. 0.006 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

VL0429ABS01

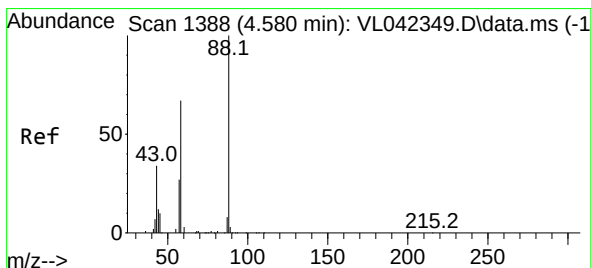
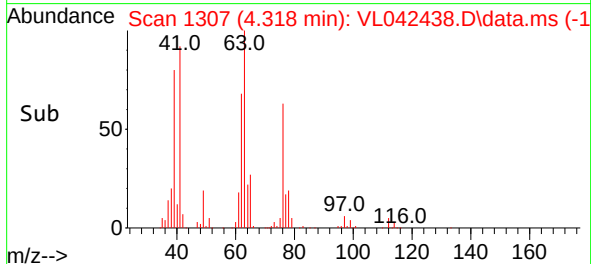
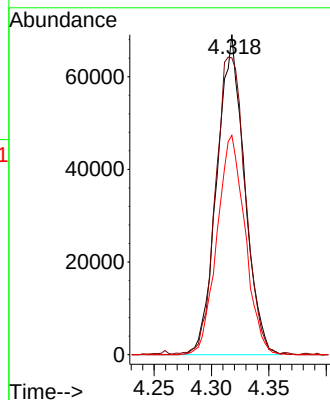
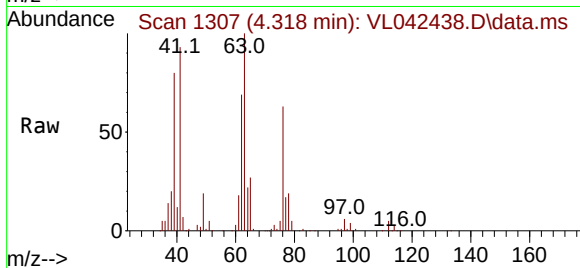
Tgt Ion: 63 Resp: 115449

Ion Ratio Lower Upper

63 100

41 92.4 64.2 96.2

62 68.4 54.3 81.5



#40

1,4-Dioxane

Concen: 7.529 ppbv

RT: 4.586 min Scan# 1390

Delta R.T. 0.006 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

Tgt Ion: 88 Resp: 52820

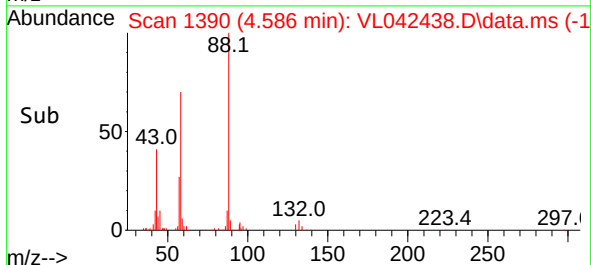
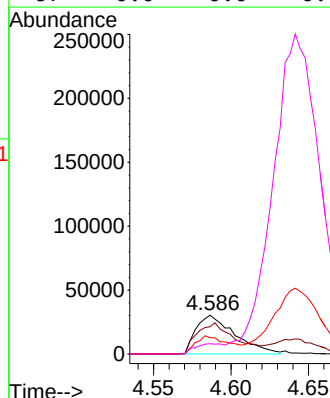
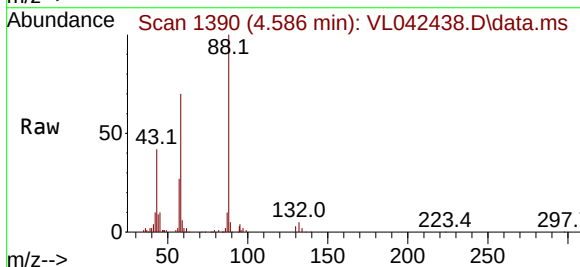
Ion Ratio Lower Upper

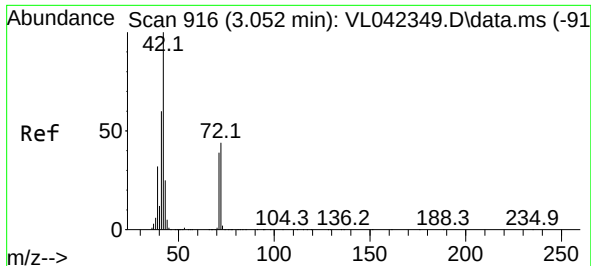
88 100

58 78.5 61.4 92.0

43 41.9 23.2 34.8#

57 0.0 0.0 0.0

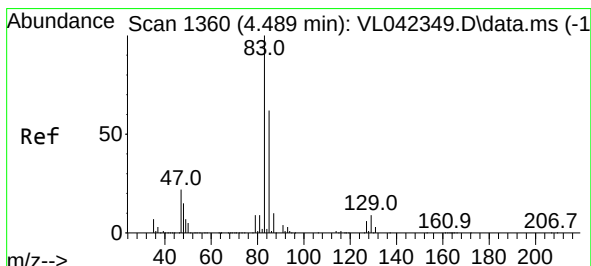
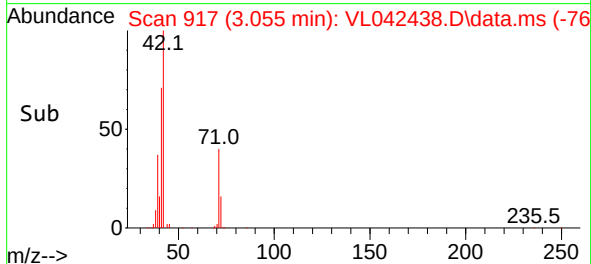
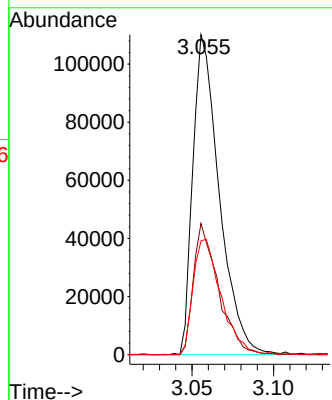
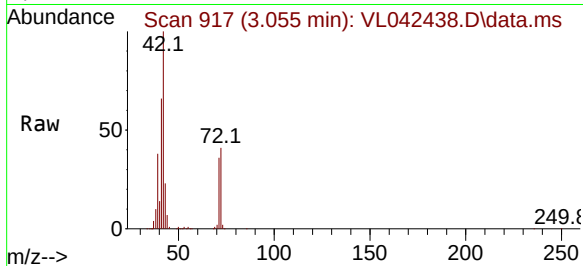




#41
Tetrahydrofuran
Concen: 8.471 ppbv
RT: 3.055 min Scan# 916
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

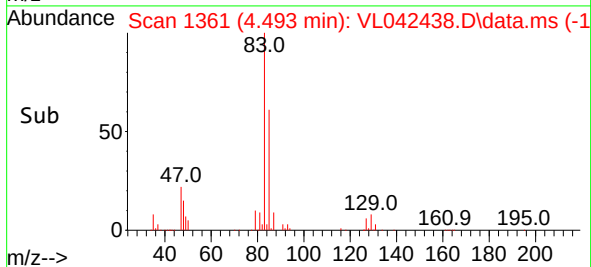
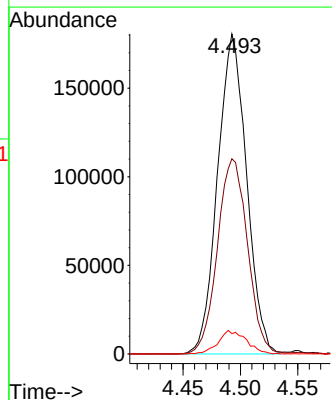
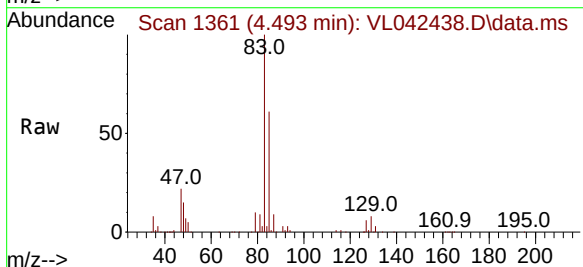
Instrument :
MSVOA_L
ClientSampleId :
VL0429ABS01

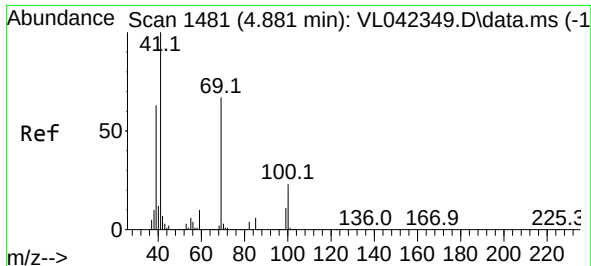
Tgt Ion: 42 Resp: 124059
Ion Ratio Lower Upper
42 100
72 38.9 32.3 48.5
71 38.4 31.4 47.2



#42
Bromodichloromethane
Concen: 11.088 ppbv
RT: 4.493 min Scan# 1361
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 83 Resp: 317253
Ion Ratio Lower Upper
83 100
85 61.0 49.7 74.5
127 6.4 5.1 7.7

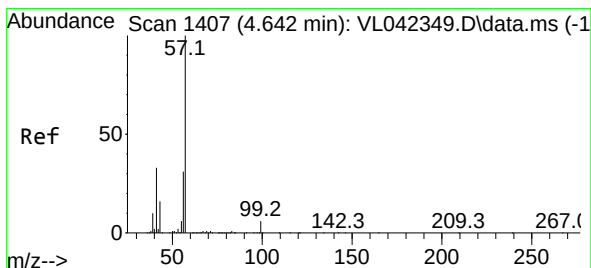
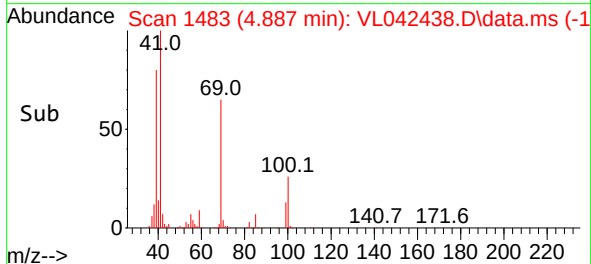
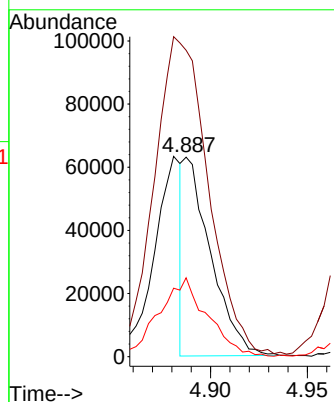
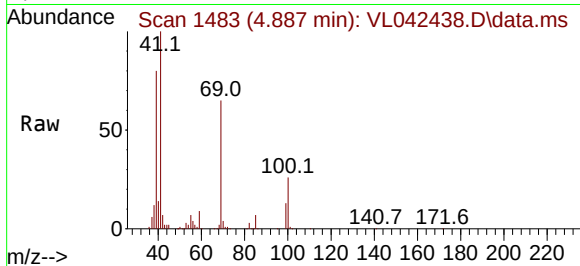




#43
Methyl Methacrylate
Concen: 3.961 ppbv
RT: 4.887 min Scan# 1481
Delta R.T. 0.006 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

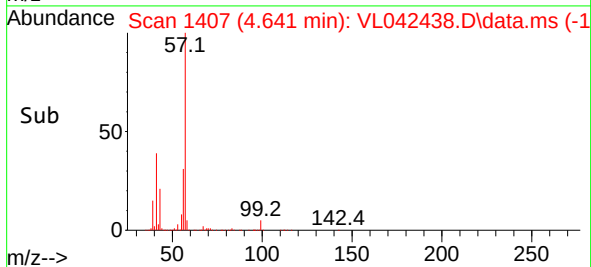
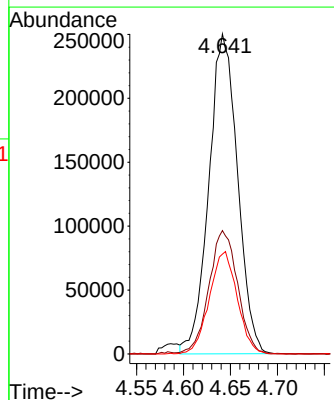
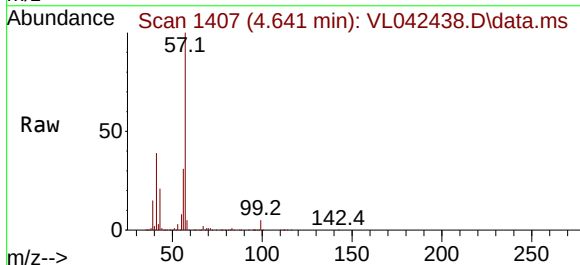
Instrument :
MSVOA_1
ClientSampleId :
VL0429ABS01

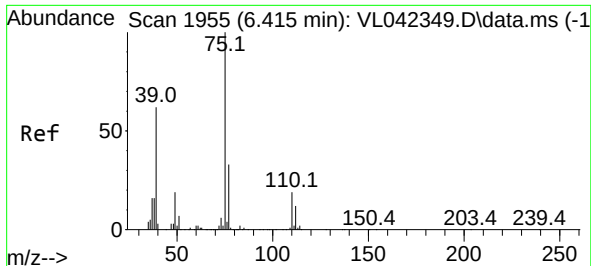
Tgt Ion: 69 Resp: 61150
Ion Ratio Lower Upper
69 100
41 0.0 118.6 177.8#
100 71.6 28.2 42.2#



#44
2,2,4-Trimethylpentane
Concen: 8.983 ppbv
RT: 4.641 min Scan# 1407
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 57 Resp: 531439
Ion Ratio Lower Upper
57 100
41 39.1 27.2 40.8
56 31.1 25.7 38.5

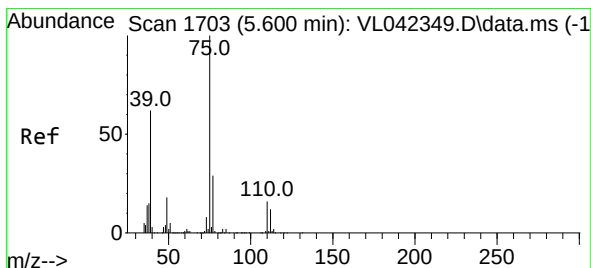
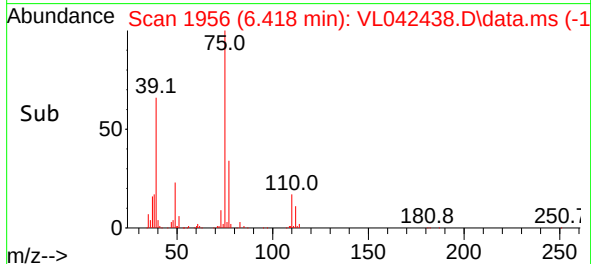
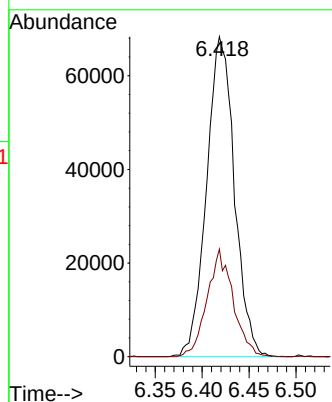
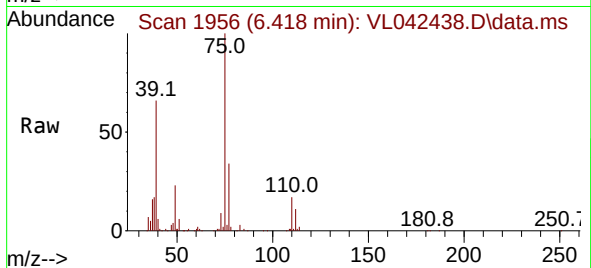




#45
 t-1,3-Dichloropropene
 Concen: 8.940 ppbv
 RT: 6.418 min Scan# 1955
 Delta R.T. 0.003 min
 Lab File: VL042438.D
 Acq: 29 Apr 2025 10:08

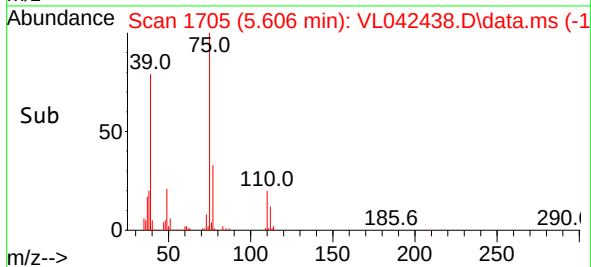
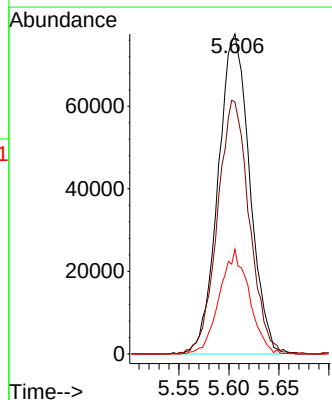
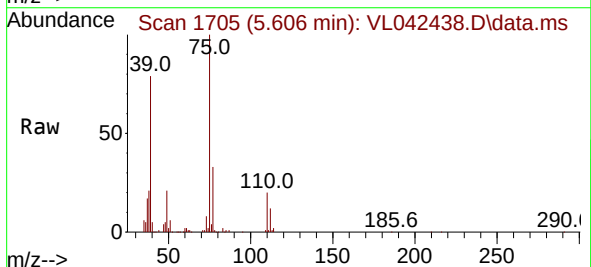
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0429ABS01

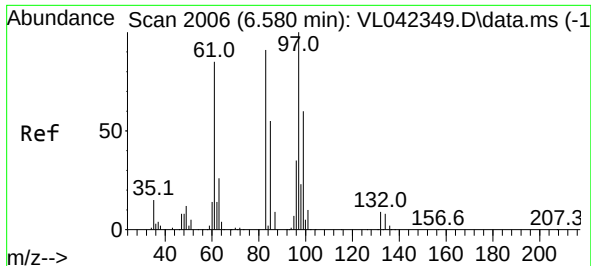
Tgt Ion: 75 Resp: 140981
 Ion Ratio Lower Upper
 75 100
 77 33.6 27.0 40.6



#46
 cis-1,3-Dichloropropene
 Concen: 8.811 ppbv
 RT: 5.606 min Scan# 1705
 Delta R.T. 0.006 min
 Lab File: VL042438.D
 Acq: 29 Apr 2025 10:08

Tgt Ion: 75 Resp: 170063
 Ion Ratio Lower Upper
 75 100
 39 78.3 50.0 75.0#
 77 32.7 23.0 34.6

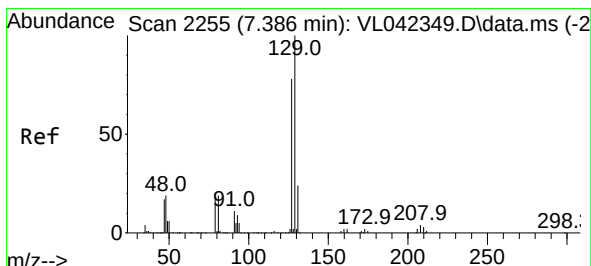
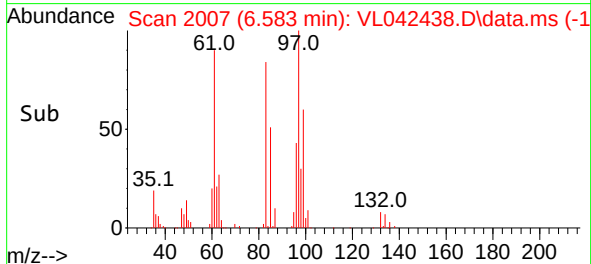
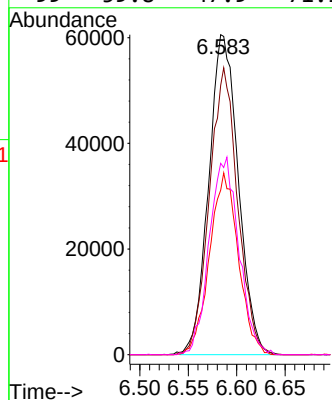
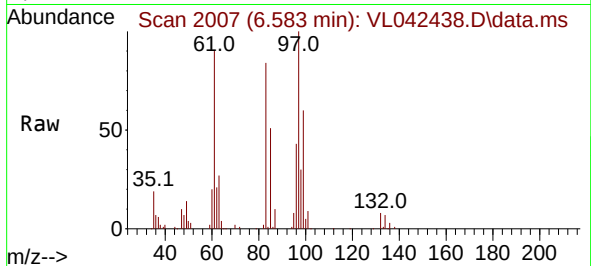




#47
 1,1,2-Trichloroethane
 Concen: 9.893 ppbv
 RT: 6.583 min Scan# 2006
 Delta R.T. 0.003 min
 Lab File: VL042438.D
 Acq: 29 Apr 2025 10:08

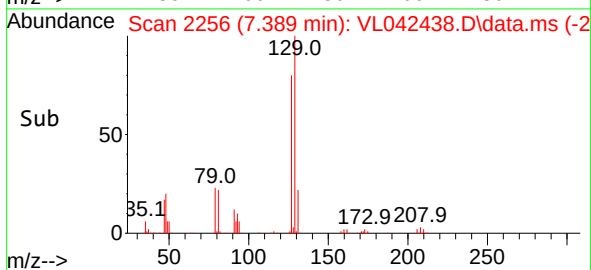
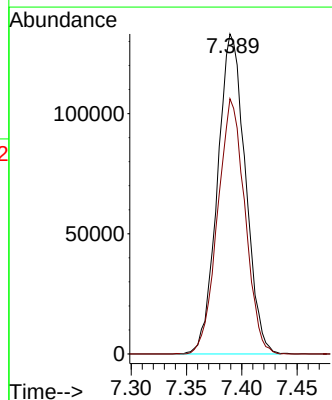
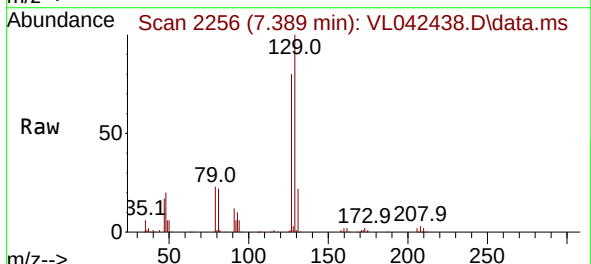
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0429ABS01

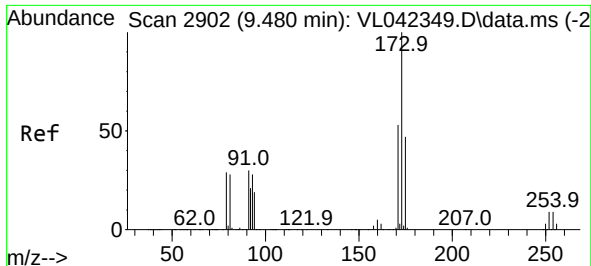
Tgt Ion:	97	Resp:	128662
Ion	Ratio	Lower	Upper
97	100		
83	84.0	72.8	109.2
85	51.4	44.2	66.4
99	59.8	47.9	71.9



#48
 Dibromochloromethane
 Concen: 10.156 ppbv
 RT: 7.389 min Scan# 2256
 Delta R.T. 0.003 min
 Lab File: VL042438.D
 Acq: 29 Apr 2025 10:08

Tgt Ion:	129	Resp:	233350
Ion	Ratio	Lower	Upper
129	100		
127	78.1	39.1	117.3





#49

Bromoform

Concen: 9.431 ppbv

RT: 9.487 min Scan# 2904

Delta R.T. 0.006 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

VL0429ABS01

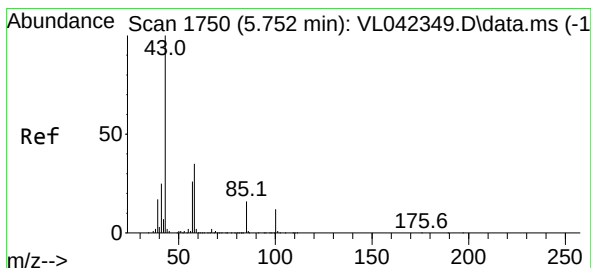
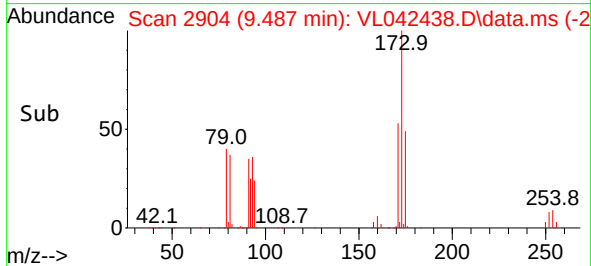
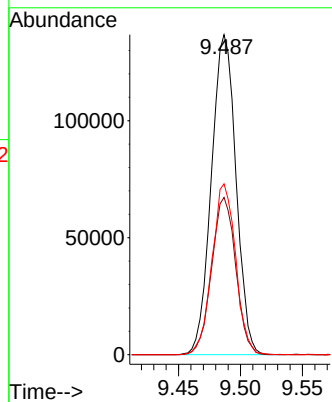
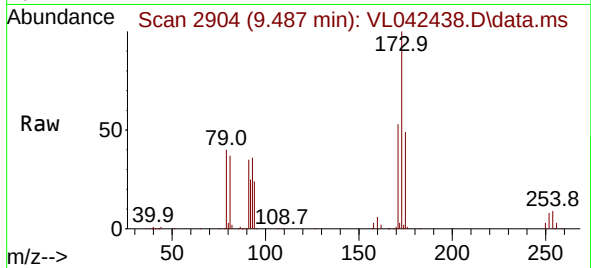
Tgt Ion:173 Resp: 189484

Ion Ratio Lower Upper

173 100

175 48.2 38.2 57.2

171 51.4 40.9 61.3



#50

4-Methyl-2-Pentanone

Concen: 7.846 ppbv

RT: 5.755 min Scan# 1751

Delta R.T. 0.003 min

Lab File: VL042438.D

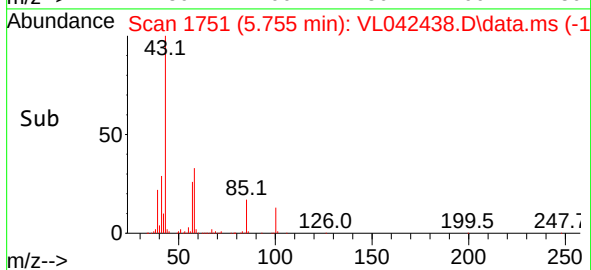
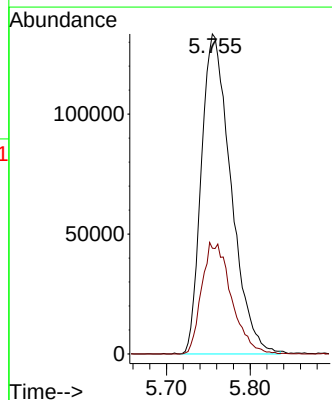
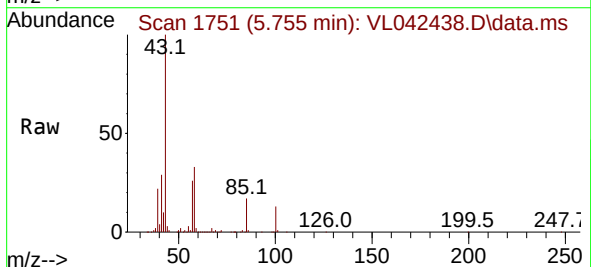
Acq: 29 Apr 2025 10:08

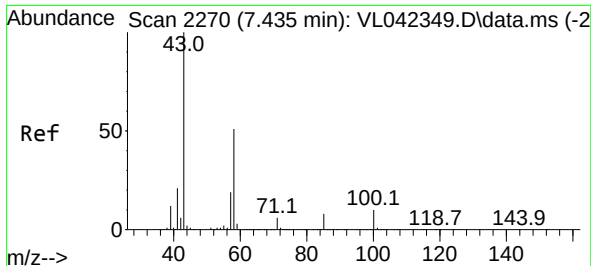
Tgt Ion: 43 Resp: 327508

Ion Ratio Lower Upper

43 100

58 34.9 28.6 43.0

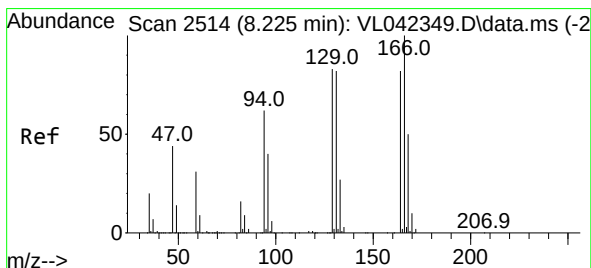
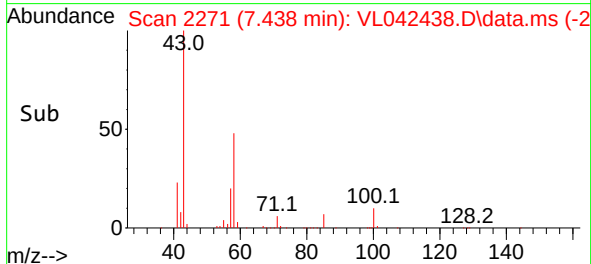
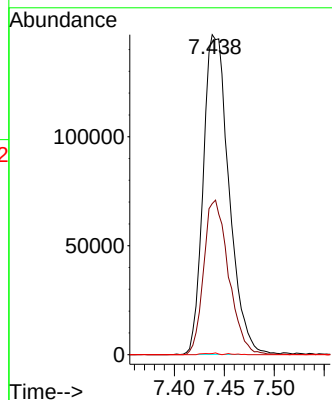
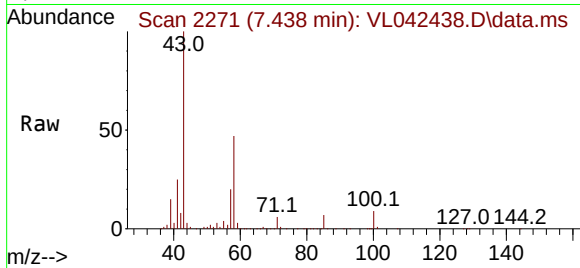




#51
2-Hexanone
Concen: 7.018 ppbv
RT: 7.438 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

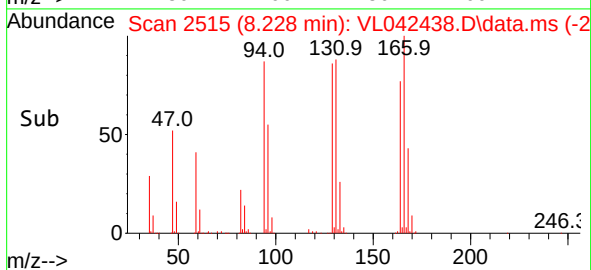
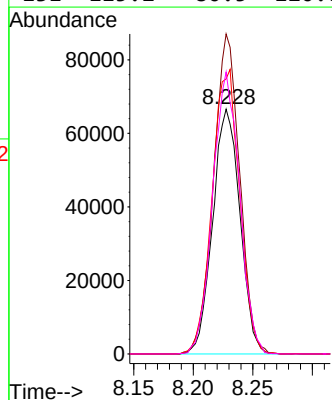
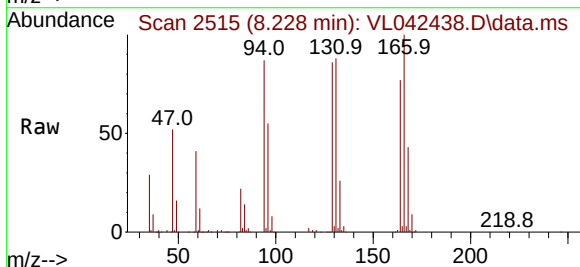
Instrument :
MSVOA_L
ClientSampleId :
VL0429ABS01

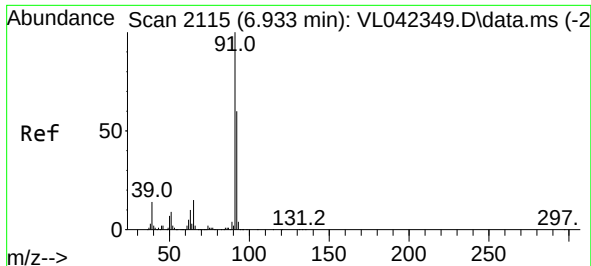
Tgt Ion: 43 Resp: 262697
Ion Ratio Lower Upper
43 100
58 47.0 40.2 60.4
98 0.4 0.1 0.1#



#52
Tetrachloroethene
Concen: 8.008 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion:164 Resp: 106031
Ion Ratio Lower Upper
164 100
166 130.7 98.2 147.2
129 112.3 81.8 122.8
131 115.2 80.5 120.7

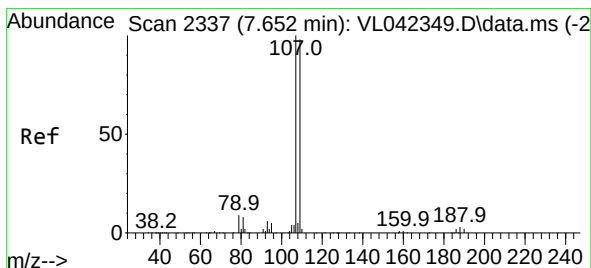
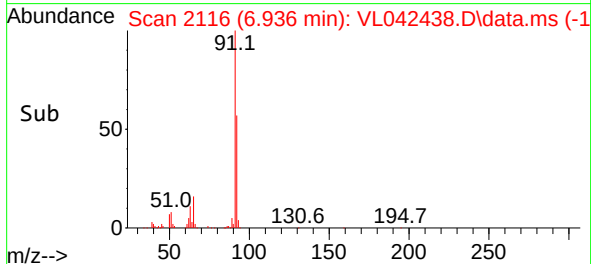
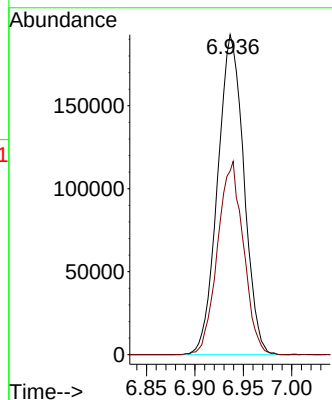
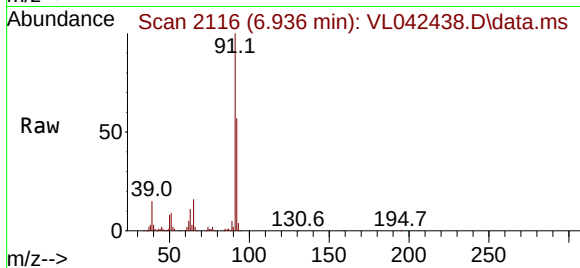




#53
Toluene
Concen: 8.848 ppbv
RT: 6.936 min Scan# 2115
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

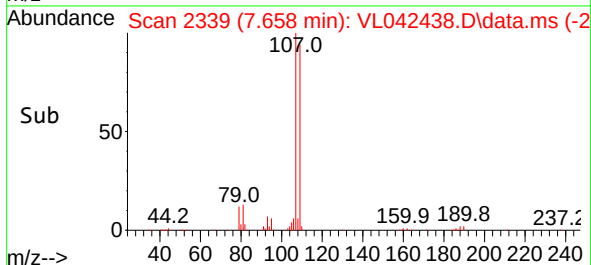
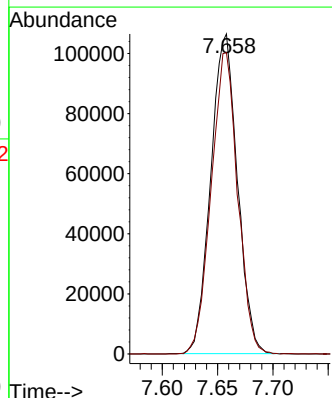
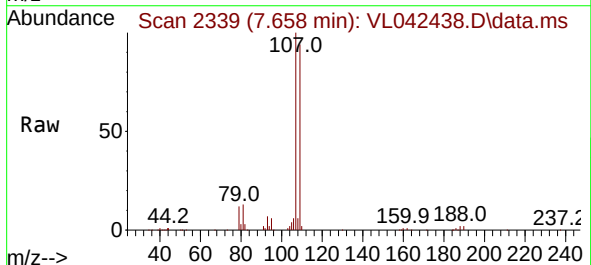
Instrument :
MSVOA_L
ClientSampleId :
VL0429ABS01

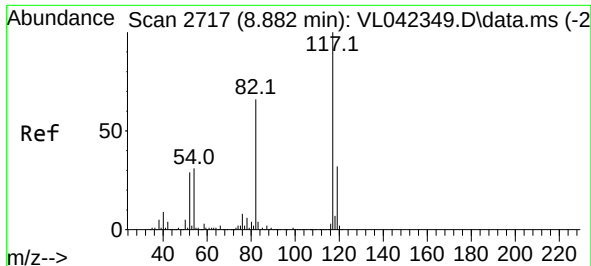
Tgt Ion: 91 Resp: 363707
Ion Ratio Lower Upper
91 100
92 59.6 48.2 72.4



#54
1,2-Dibromoethane
Concen: 9.601 ppbv
RT: 7.658 min Scan# 2339
Delta R.T. 0.006 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 107 Resp: 178709
Ion Ratio Lower Upper
107 100
109 94.3 78.2 117.4

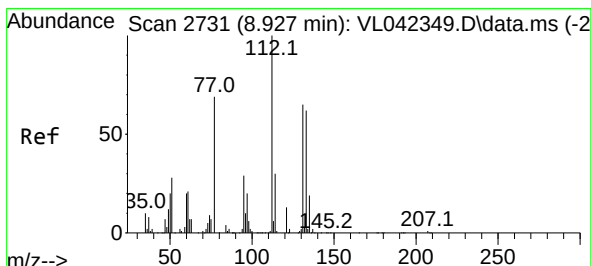
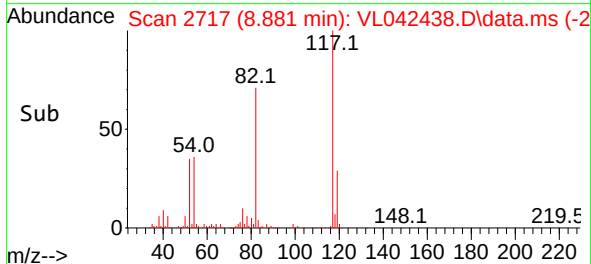
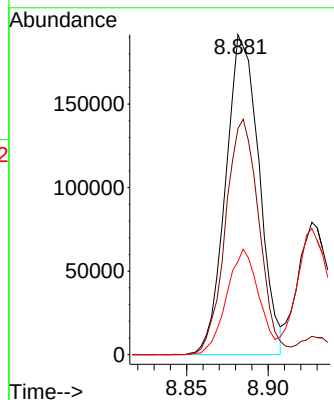
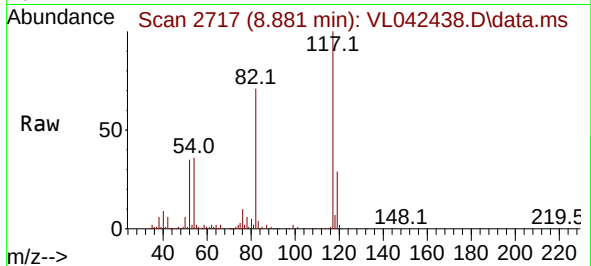




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.881 min Scan# 2717
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

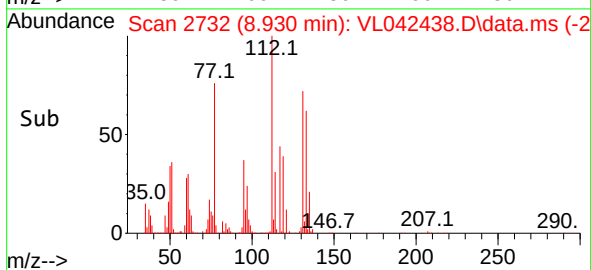
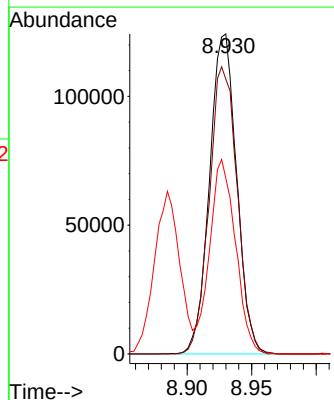
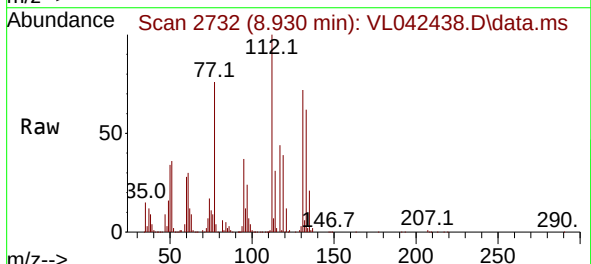
Instrument :
MSVOA_L
ClientSampleId :
VL0429ABS01

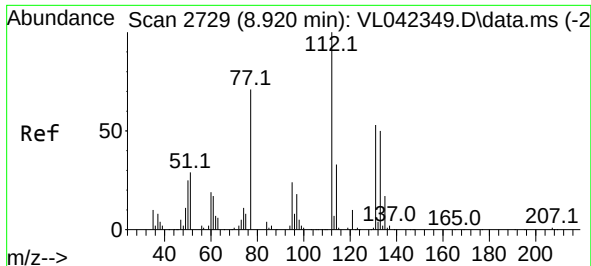
Tgt Ion:117 Resp: 272312
Ion Ratio Lower Upper
117 100
82 79.2 57.8 86.6
119 32.0 25.2 37.8



#56
1,1,1,2-Tetrachloroethane
Concen: 10.981 ppbv
RT: 8.930 min Scan# 2732
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion:131 Resp: 180979
Ion Ratio Lower Upper
131 100
133 93.2 78.3 117.5
119 58.6 48.7 73.1

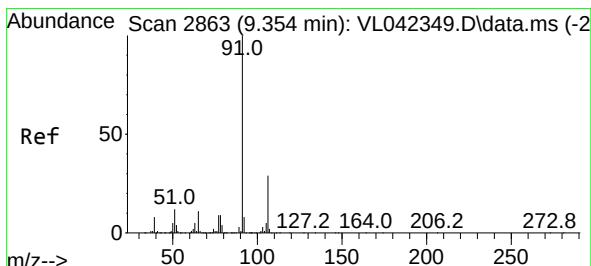
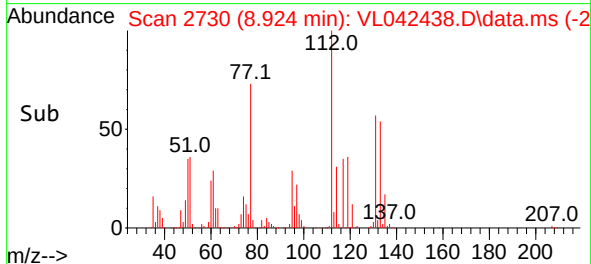
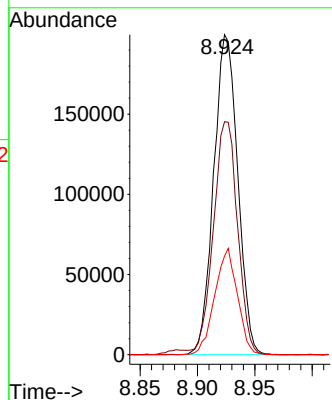
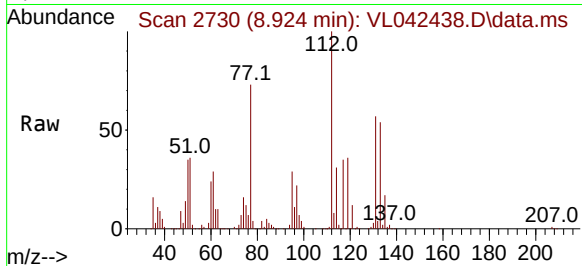




#57
Chlorobenzene
Concen: 10.270 ppbv
RT: 8.924 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

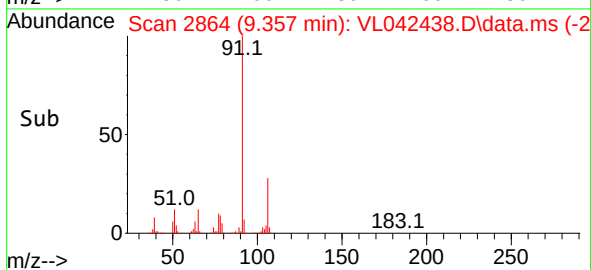
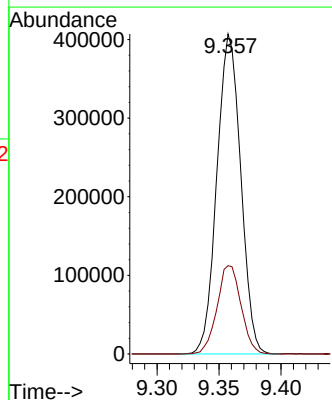
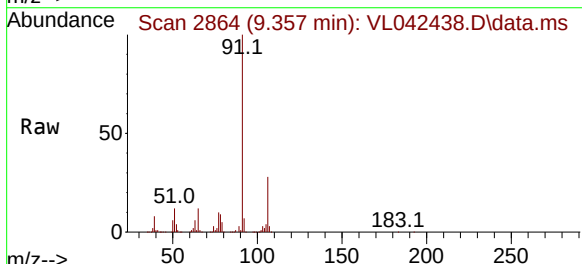
Instrument :
MSVOA_L
ClientSampleId :
VL0429ABS01

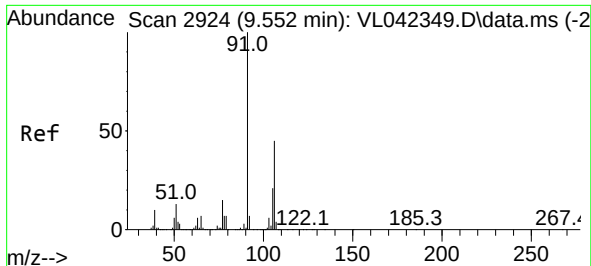
Tgt Ion:112 Resp: 290861
Ion Ratio Lower Upper
112 100
77 72.8 57.8 86.6
114 30.8 29.3 35.9



#58
Ethyl Benzene
Concen: 10.111 ppbv
RT: 9.357 min Scan# 2864
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 91 Resp: 545497
Ion Ratio Lower Upper
91 100
106 27.6 23.0 34.4





#59

m/p-Xylene

Concen: 9.768 ppbv

RT: 9.555 min Scan# 2924

Delta R.T. 0.003 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

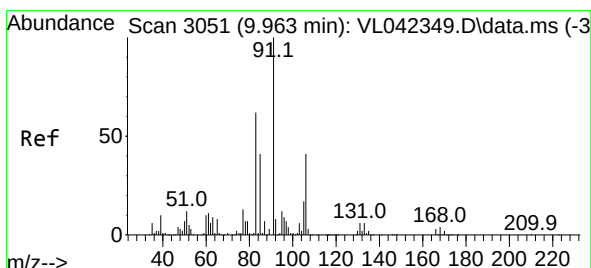
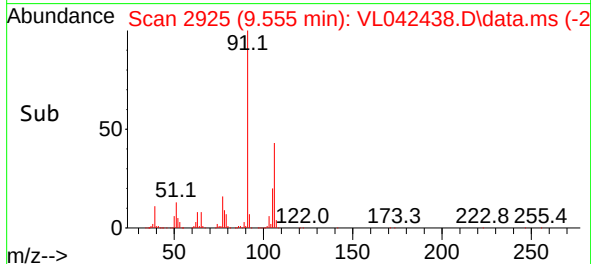
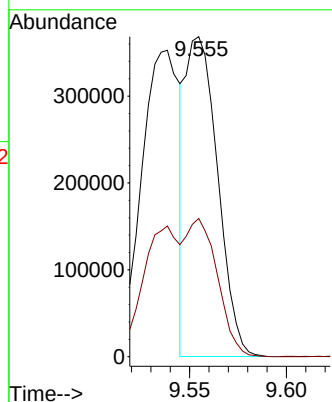
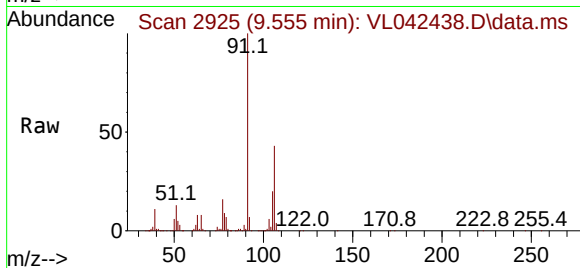
VL0429ABS01

Tgt Ion: 91 Resp: 424567

Ion Ratio Lower Upper

91 100

106 89.3 35.4 53.2#



#60

o-Xylene

Concen: 10.639 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. 0.003 min

Lab File: VL042438.D

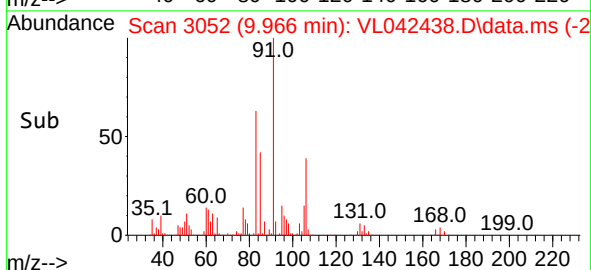
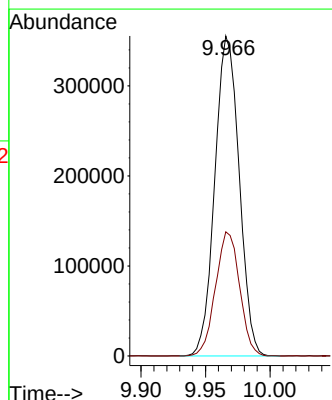
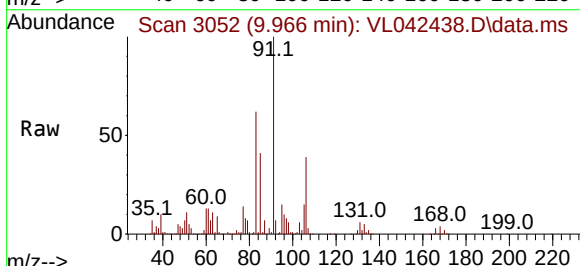
Acq: 29 Apr 2025 10:08

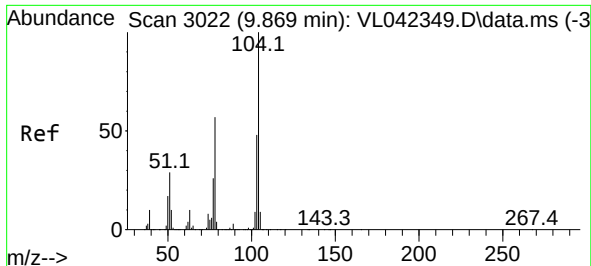
Tgt Ion: 91 Resp: 465645

Ion Ratio Lower Upper

91 100

106 38.4 21.1 63.4

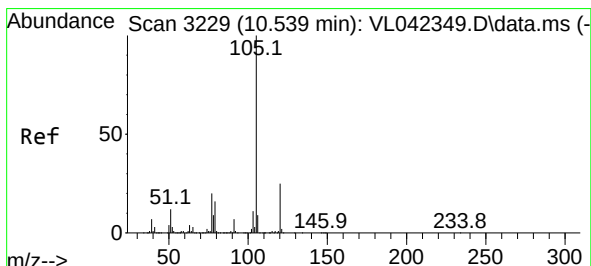
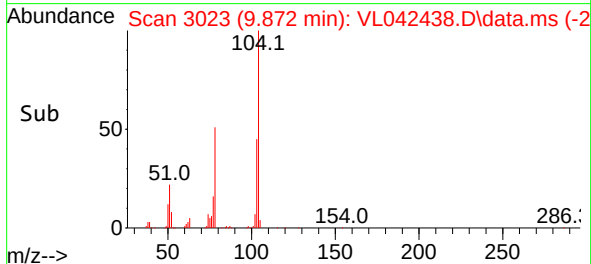
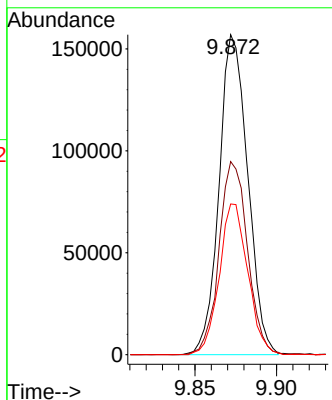
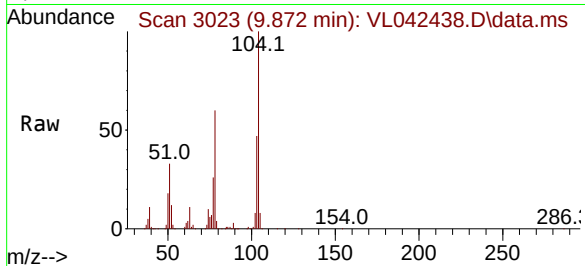




#61
Styrene
Concen: 9.178 ppbv
RT: 9.872 min Scan# 3022
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

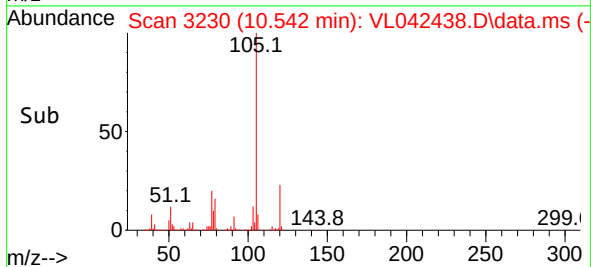
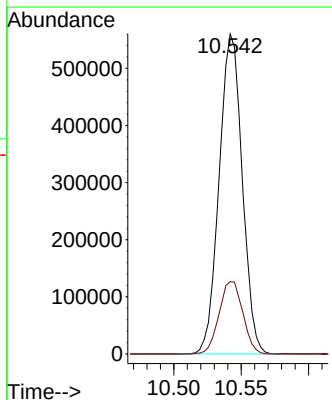
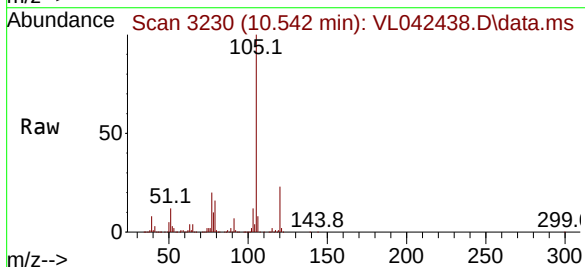
Instrument :
MSVOA_L
ClientSampleId :
VL0429ABS01

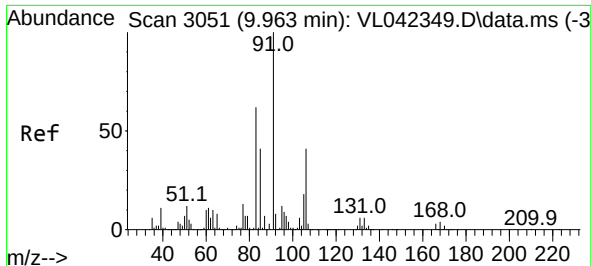
Tgt Ion:104 Resp: 191741
Ion Ratio Lower Upper
104 100
78 60.1 44.6 66.8
103 47.0 37.4 56.0



#62
Isopropylbenzene
Concen: 10.393 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion:105 Resp: 667839
Ion Ratio Lower Upper
105 100
120 23.2 19.8 29.8

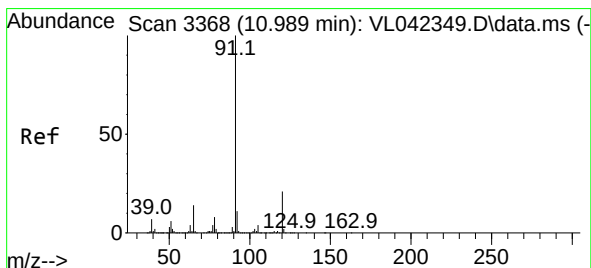
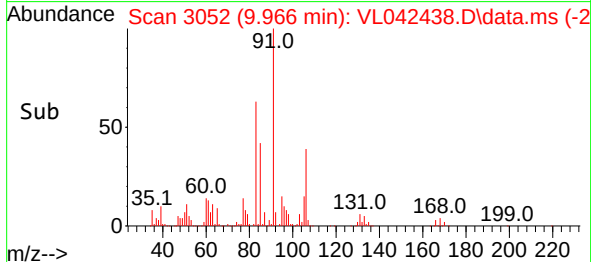
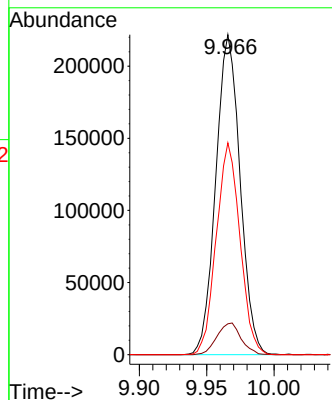
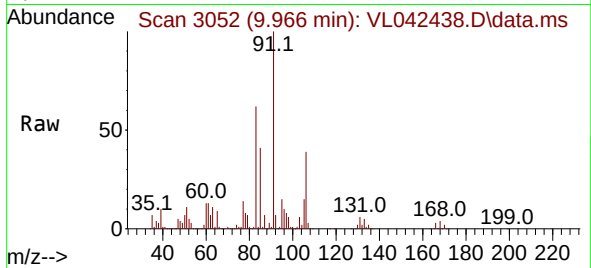




#63
 1,1,2,2-Tetrachloroethane
 Concen: 9.819 ppbv
 RT: 9.966 min Scan# 3051
 Delta R.T. 0.003 min
 Lab File: VL042438.D
 Acq: 29 Apr 2025 10:08

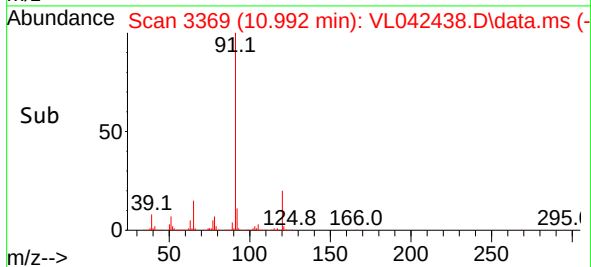
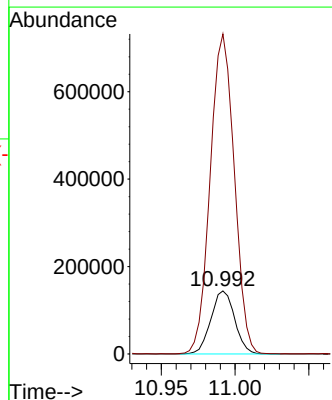
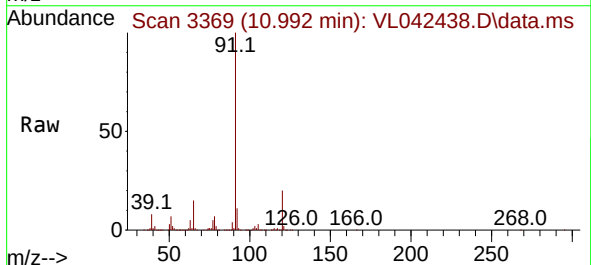
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0429ABS01

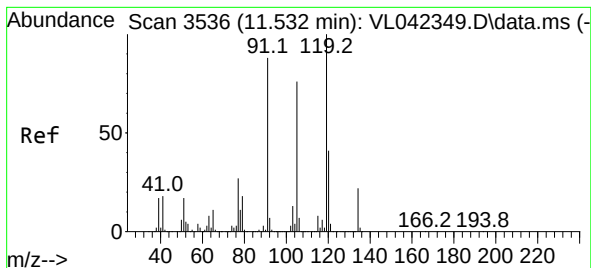
Tgt Ion: 83 Resp: 278491
 Ion Ratio Lower Upper
 83 100
 131 9.8 4.5 13.7
 85 64.4 32.4 97.0



#64
 n-propylbenzene
 Concen: 9.987 ppbv
 RT: 10.992 min Scan# 3369
 Delta R.T. 0.003 min
 Lab File: VL042438.D
 Acq: 29 Apr 2025 10:08

Tgt Ion: 120 Resp: 161309
 Ion Ratio Lower Upper
 120 100
 91 515.8 392.4 588.6





#65

tert-Butylbenzene

Concen: 10.260 ppbv

RT: 11.535 min Scan# 3536

Delta R.T. 0.003 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

VL0429ABS01

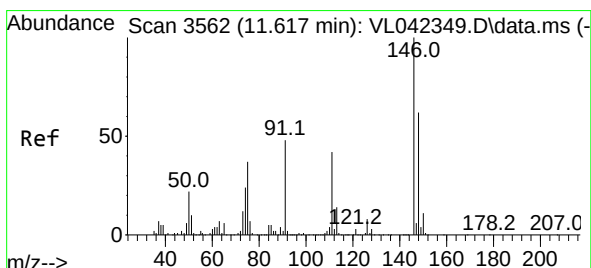
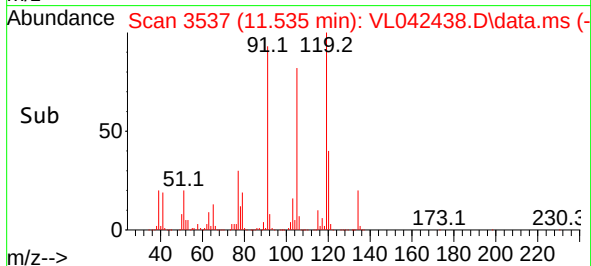
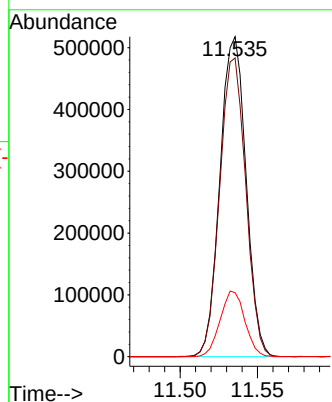
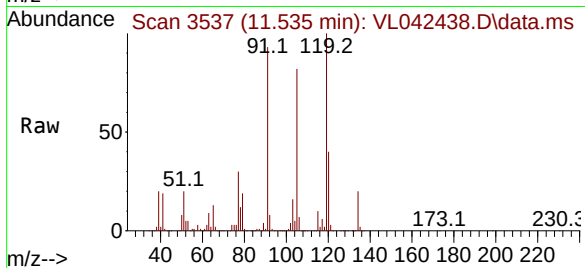
Tgt Ion:119 Resp: 605972

Ion Ratio Lower Upper

119 100

91 93.3 74.6 111.8

134 19.5 18.8 28.2



#66

Benzyl Chloride

Concen: 7.229 ppbv

RT: 11.620 min Scan# 3563

Delta R.T. 0.003 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

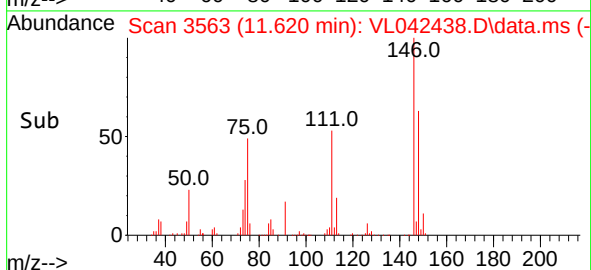
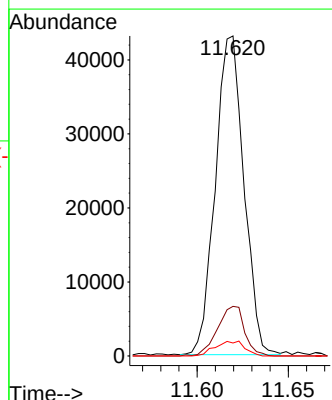
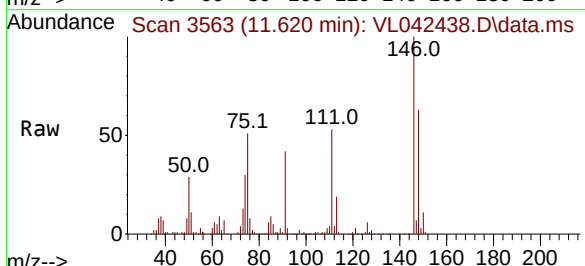
Tgt Ion: 91 Resp: 46913

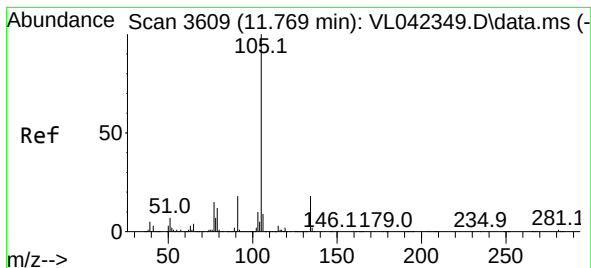
Ion Ratio Lower Upper

91 100

126 14.8 11.8 17.6

128 4.8 4.5 6.7

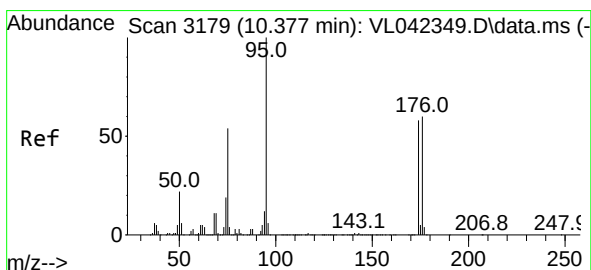
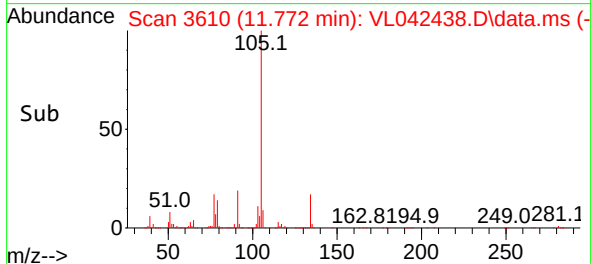
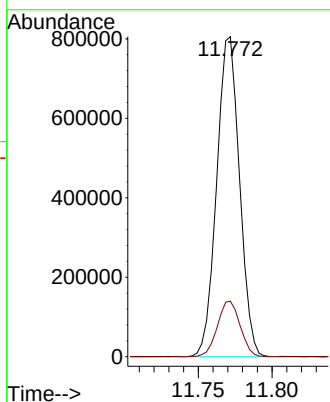
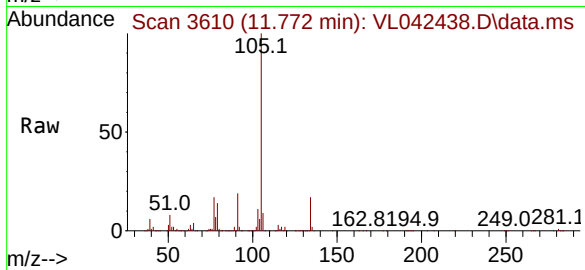




#67
 sec-Butylbenzene
 Concen: 10.569 ppbv
 RT: 11.772 min Scan# 3610
 Delta R.T. 0.003 min
 Lab File: VL042438.D
 Acq: 29 Apr 2025 10:08

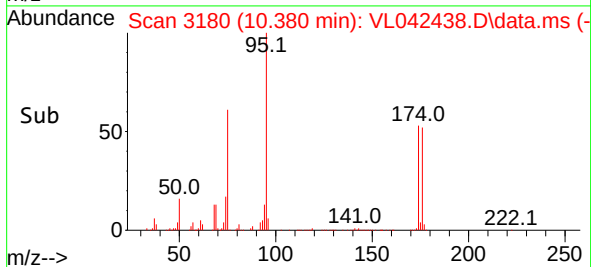
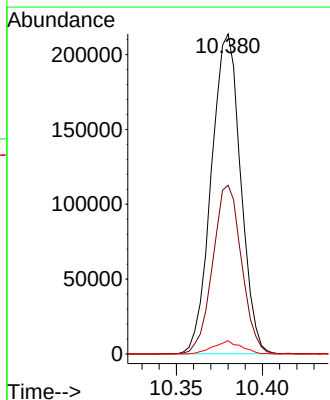
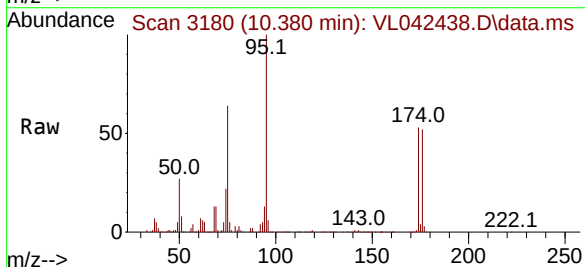
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0429ABS01

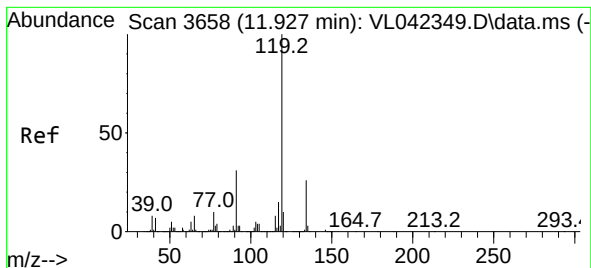
Tgt Ion:105 Resp: 868275
 Ion Ratio Lower Upper
 105 100
 134 17.3 14.6 21.8



#68
 1-Bromo-4-Fluorobenzene
 Concen: 11.307 ppbv
 RT: 10.380 min Scan# 3180
 Delta R.T. 0.003 min
 Lab File: VL042438.D
 Acq: 29 Apr 2025 10:08

Tgt Ion: 95 Resp: 253021
 Ion Ratio Lower Upper
 95 100
 174 52.0 48.5 72.7
 175 3.9 3.7 5.5





#69

p-Isopropyltoluene

Concen: 10.282 ppbv

RT: 11.927 min Scan# 3658

Delta R.T. -0.000 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

Instrument :

MSVOA_1

ClientSampleId :

VL0429ABS01

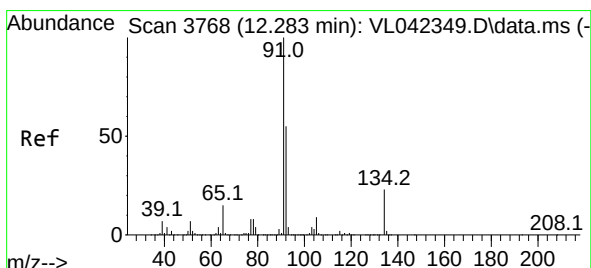
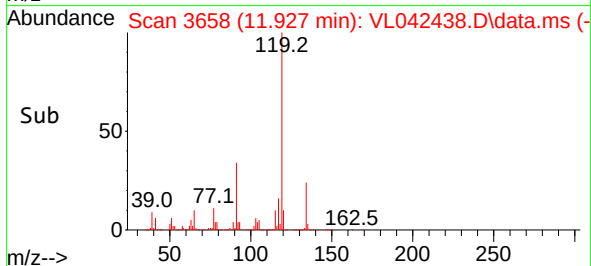
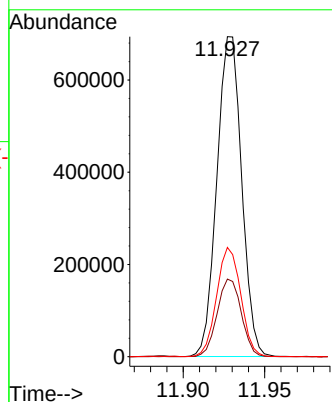
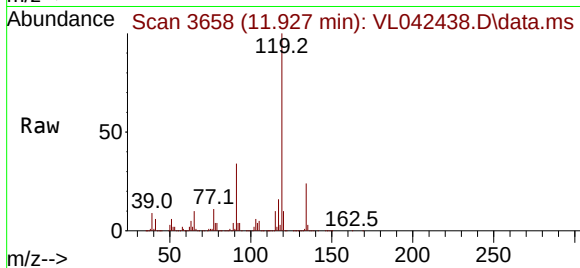
Tgt Ion:119 Resp: 733796

Ion Ratio Lower Upper

119 100

134 23.7 20.0 30.0

91 33.4 24.4 36.6



#70

n-Butylbenzene

Concen: 10.717 ppbv

RT: 12.283 min Scan# 3768

Delta R.T. -0.000 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

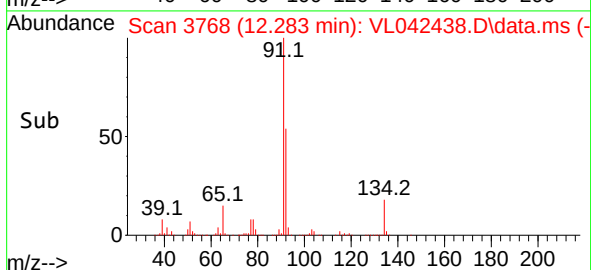
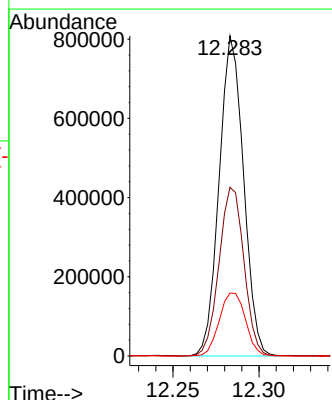
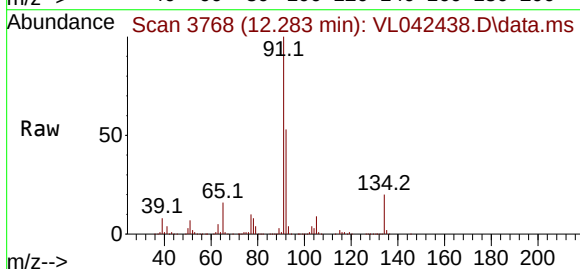
Tgt Ion: 91 Resp: 796622

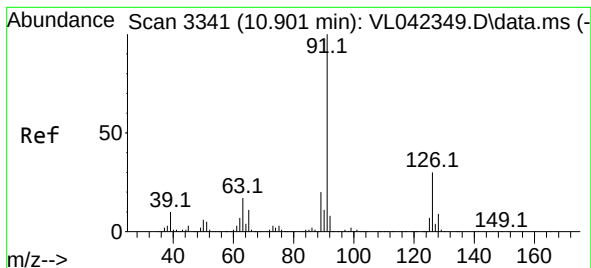
Ion Ratio Lower Upper

91 100

92 54.1 44.2 66.4

134 21.1 18.2 27.4





#71

2-Chlorotoluene

Concen: 10.614 ppbv

RT: 10.904 min Scan# 31

Delta R.T. 0.003 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

Instrument :

MSVOA_1

ClientSampleId :

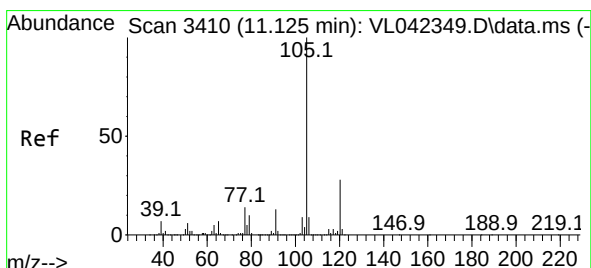
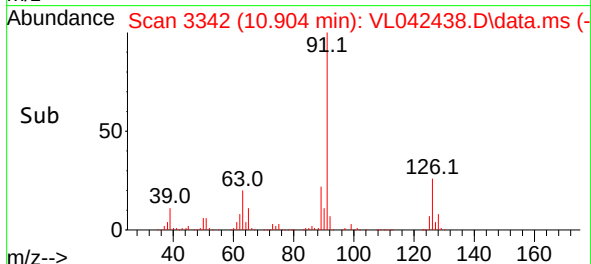
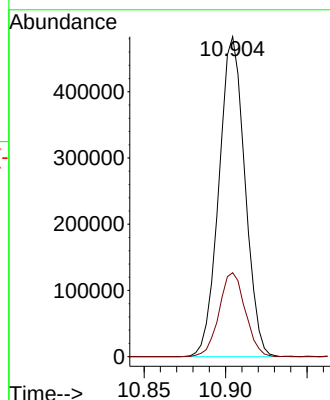
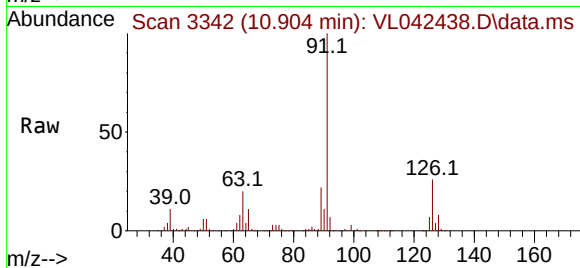
VL0429ABS01

Tgt Ion: 91 Resp: 534951

Ion Ratio Lower Upper

91 100

126 26.4 11.4 45.4



#72

4-Ethyltoluene

Concen: 10.351 ppbv

RT: 11.128 min Scan# 3411

Delta R.T. 0.003 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

Tgt Ion:105 Resp: 553879

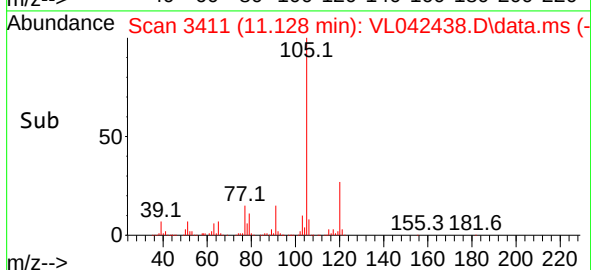
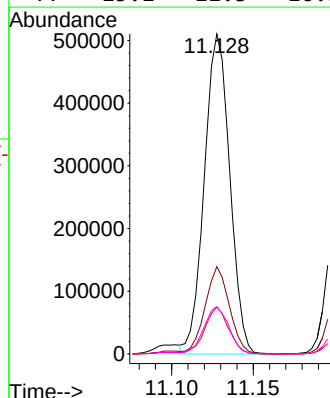
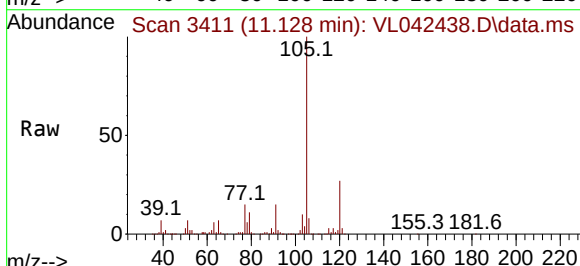
Ion Ratio Lower Upper

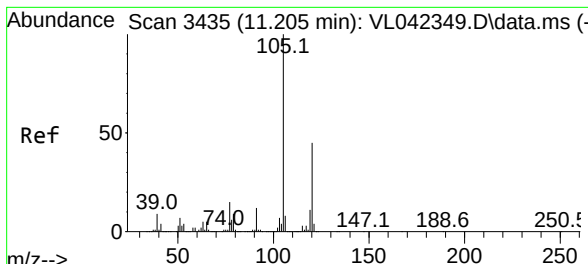
105 100

120 26.9 23.2 34.8

91 14.3 10.4 15.6

77 15.1 11.3 16.9



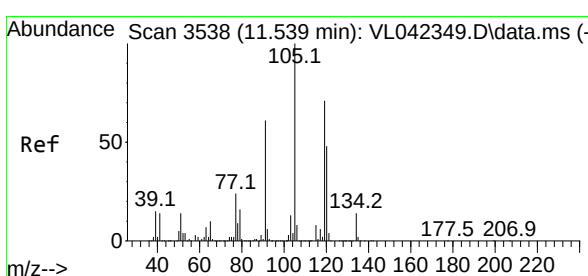
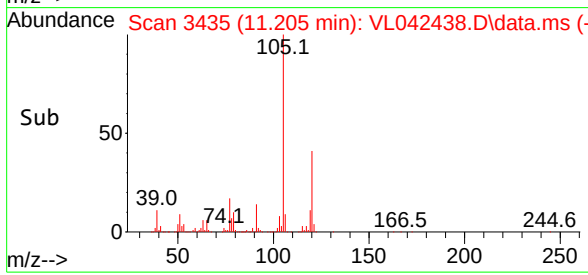
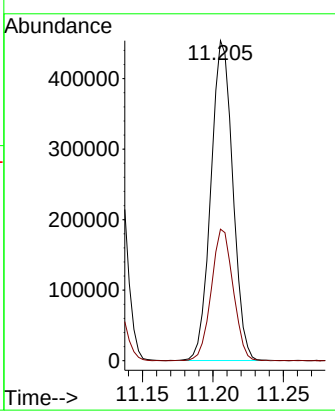
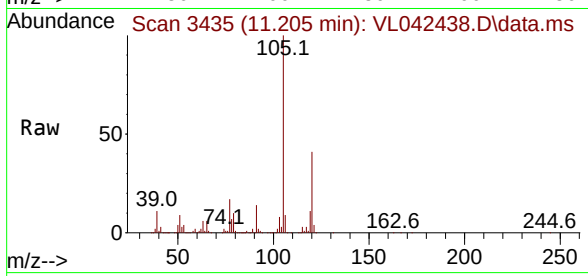


#73
 1,3,5-Trimethylbenzene
 Concen: 10.403 ppbv
 RT: 11.205 min Scan# 3435
 Delta R.T. -0.000 min
 Lab File: VL042438.D
 Acq: 29 Apr 2025 10:08

Instrument : MSVOA_1
 ClientSampleId : VL0429ABS01

Tgt Ion:105 Resp: 491459

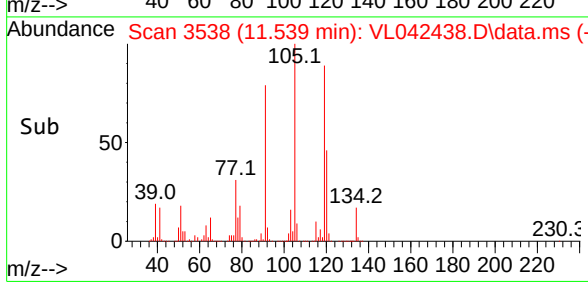
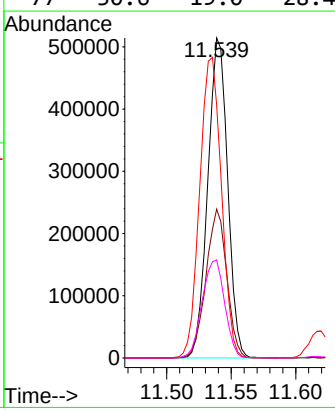
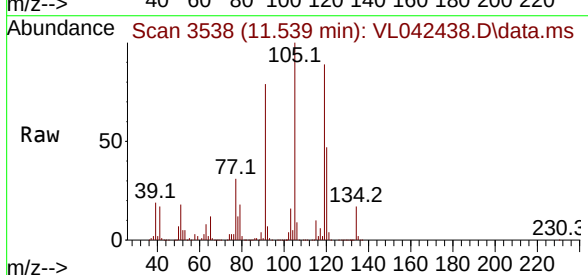
Ion	Ratio	Lower	Upper
105	100		
120	41.1	35.6	53.4

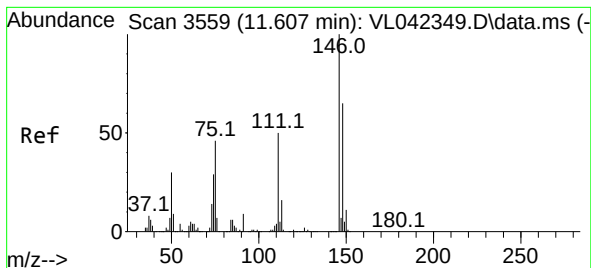


#74
 1,2,4-Trimethylbenzene
 Concen: 9.939 ppbv
 RT: 11.539 min Scan# 3538
 Delta R.T. -0.000 min
 Lab File: VL042438.D
 Acq: 29 Apr 2025 10:08

Tgt Ion:105 Resp: 548408

Ion	Ratio	Lower	Upper
105	100		
120	46.5	38.1	57.1
91	79.0	48.8	73.2#
77	30.6	19.0	28.4#





#75

1,3-Dichlorobenzene

Concen: 9.931 ppbv

RT: 11.610 min Scan# 3559

Delta R.T. 0.003 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

Instrument :

MSVOA_1

ClientSampleId :

VL0429ABS01

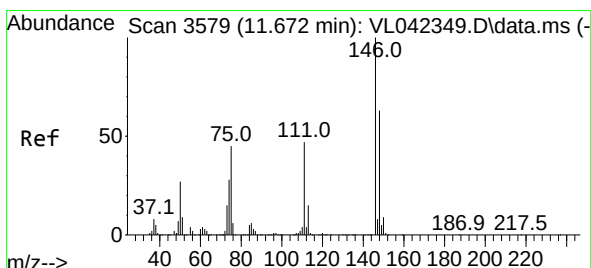
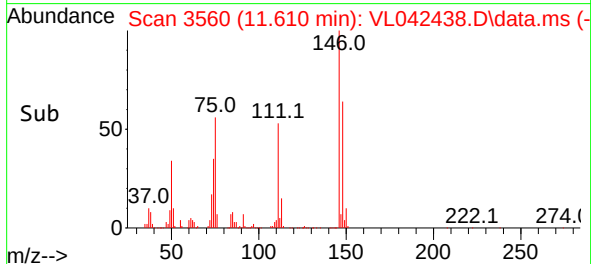
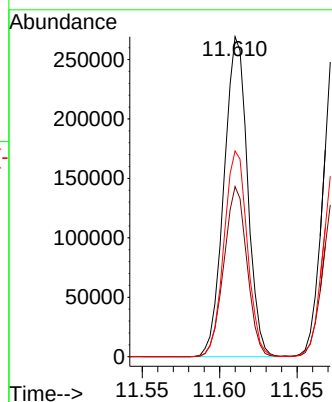
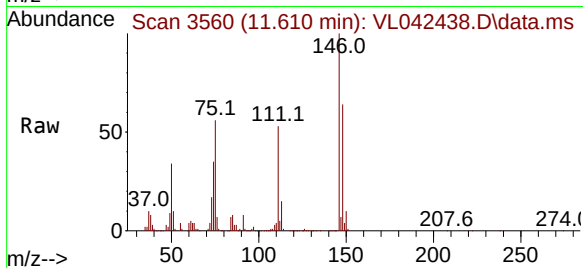
Tgt Ion:146 Resp: 284809

Ion Ratio Lower Upper

146 100

111 52.1 24.3 72.8

148 63.8 31.6 94.8



#76

1,4-Dichlorobenzene

Concen: 9.907 ppbv

RT: 11.675 min Scan# 3580

Delta R.T. 0.003 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

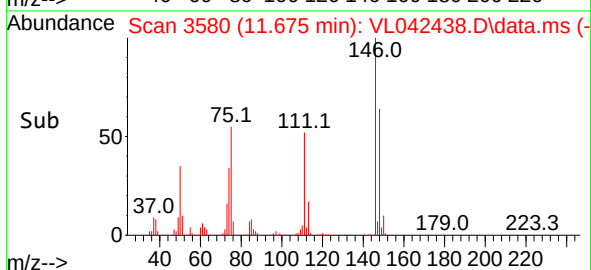
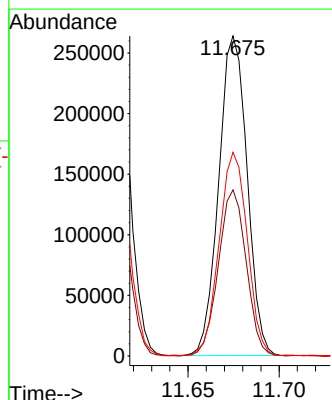
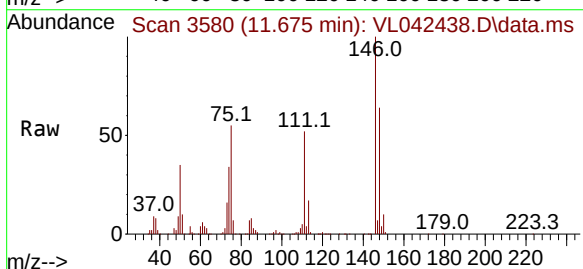
Tgt Ion:146 Resp: 285571

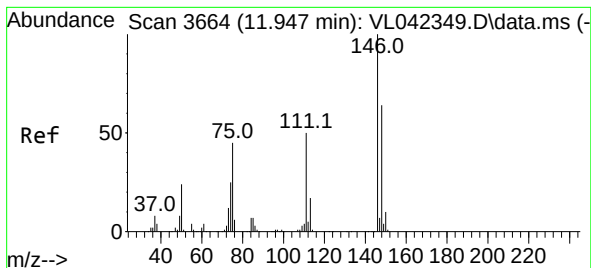
Ion Ratio Lower Upper

146 100

111 51.1 24.2 72.6

148 63.6 32.1 96.5





#77

1,2-Dichlorobenzene

Concen: 10.128 ppbv

RT: 11.950 min Scan# 3

Delta R.T. 0.003 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

VL0429ABS01

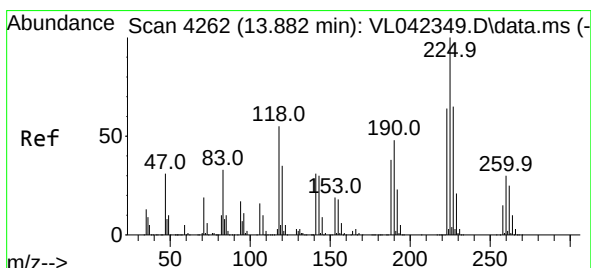
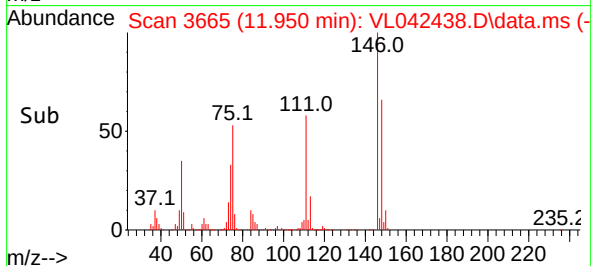
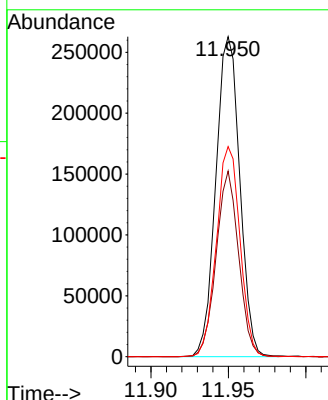
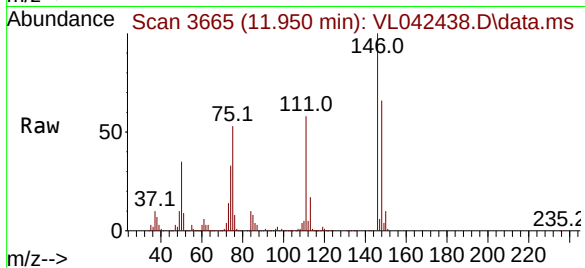
Tgt Ion:146 Resp: 282424

Ion Ratio Lower Upper

146 100

111 54.6 25.3 75.9

148 64.8 31.5 94.5



#78

Hexachloro-1,3-Butadiene

Concen: 9.977 ppbv

RT: 13.885 min Scan# 4263

Delta R.T. 0.003 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

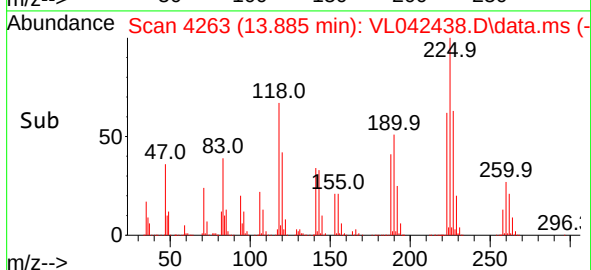
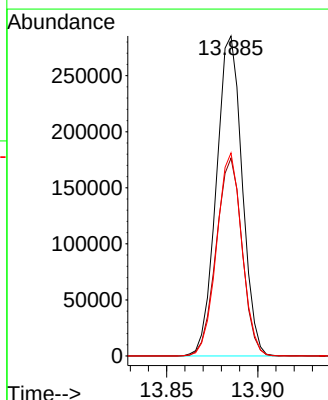
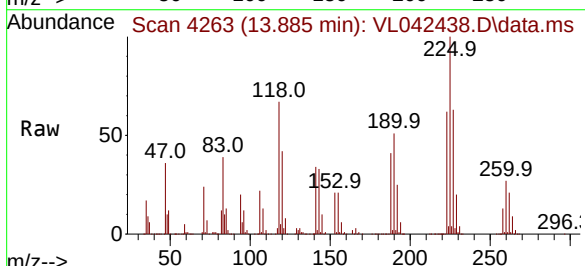
Tgt Ion:225 Resp: 280954

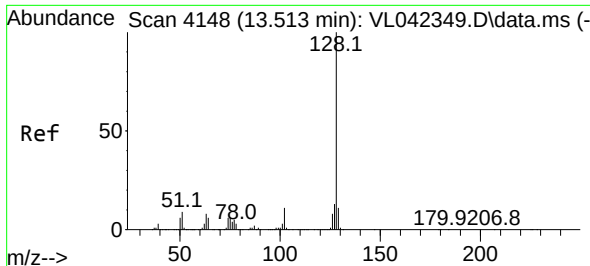
Ion Ratio Lower Upper

225 100

223 61.8 50.3 75.5

227 61.9 51.5 77.3

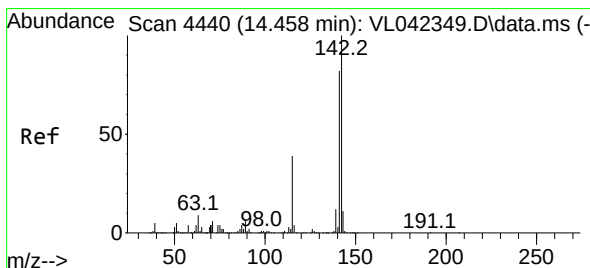
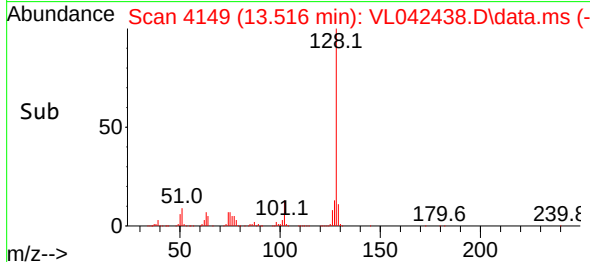
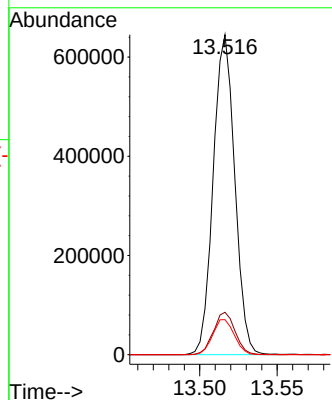
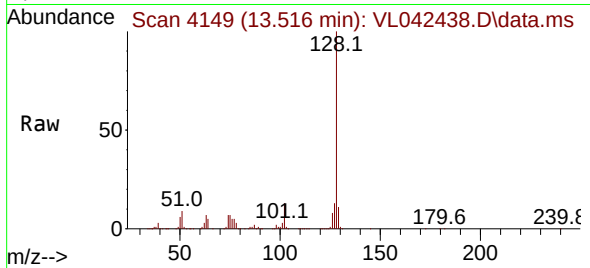




#79
Naphthalene
Concen: 9.425 ppbv
RT: 13.516 min Scan# 4148
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

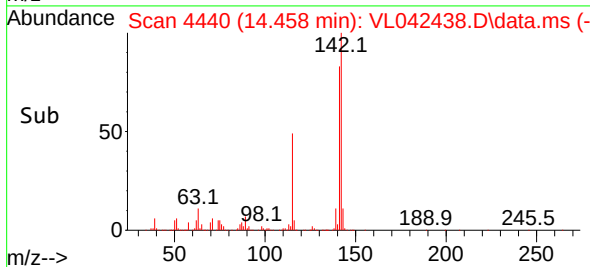
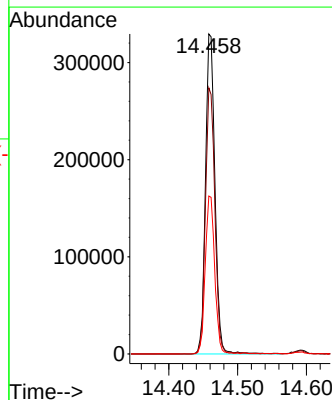
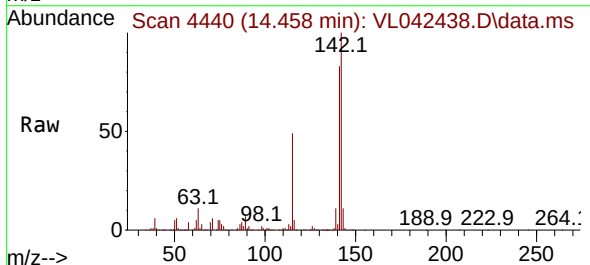
Instrument :
MSVOA_L
ClientSampleId :
VL0429ABS01

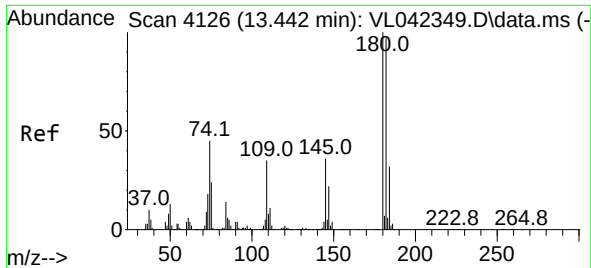
Tgt Ion:128 Resp: 621879
Ion Ratio Lower Upper
128 100
127 13.2 10.6 15.8
129 11.0 8.6 12.8



#80
Naphthalene,2-methyl-
Concen: 8.317 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion:142 Resp: 312733
Ion Ratio Lower Upper
142 100
141 84.1 66.8 100.2
115 49.9 33.4 50.2

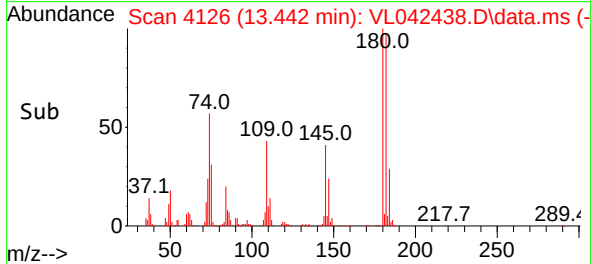
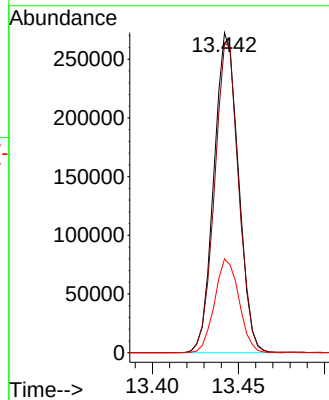
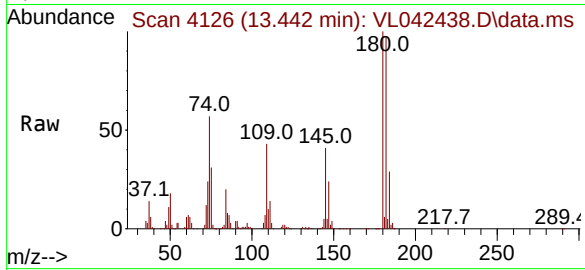




#81
 1,2,4-Trichlorobenzene
 Concen: 9.498 ppbv
 RT: 13.442 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL042438.D
 Acq: 29 Apr 2025 10:08

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0429ABS01

Tgt Ion:180 Resp: 269082
 Ion Ratio Lower Upper
 180 100
 182 95.8 76.8 115.2
 184 29.3 24.6 36.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042925\
 Data File : VL042443.D
 Acq On : 29 Apr 2025 13:11
 Operator : SY/MD
 Sample : Q1908-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 B-1

Quant Time: Apr 30 01:19:56 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 02:14:00 2025
 Response via : Initial Calibration

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

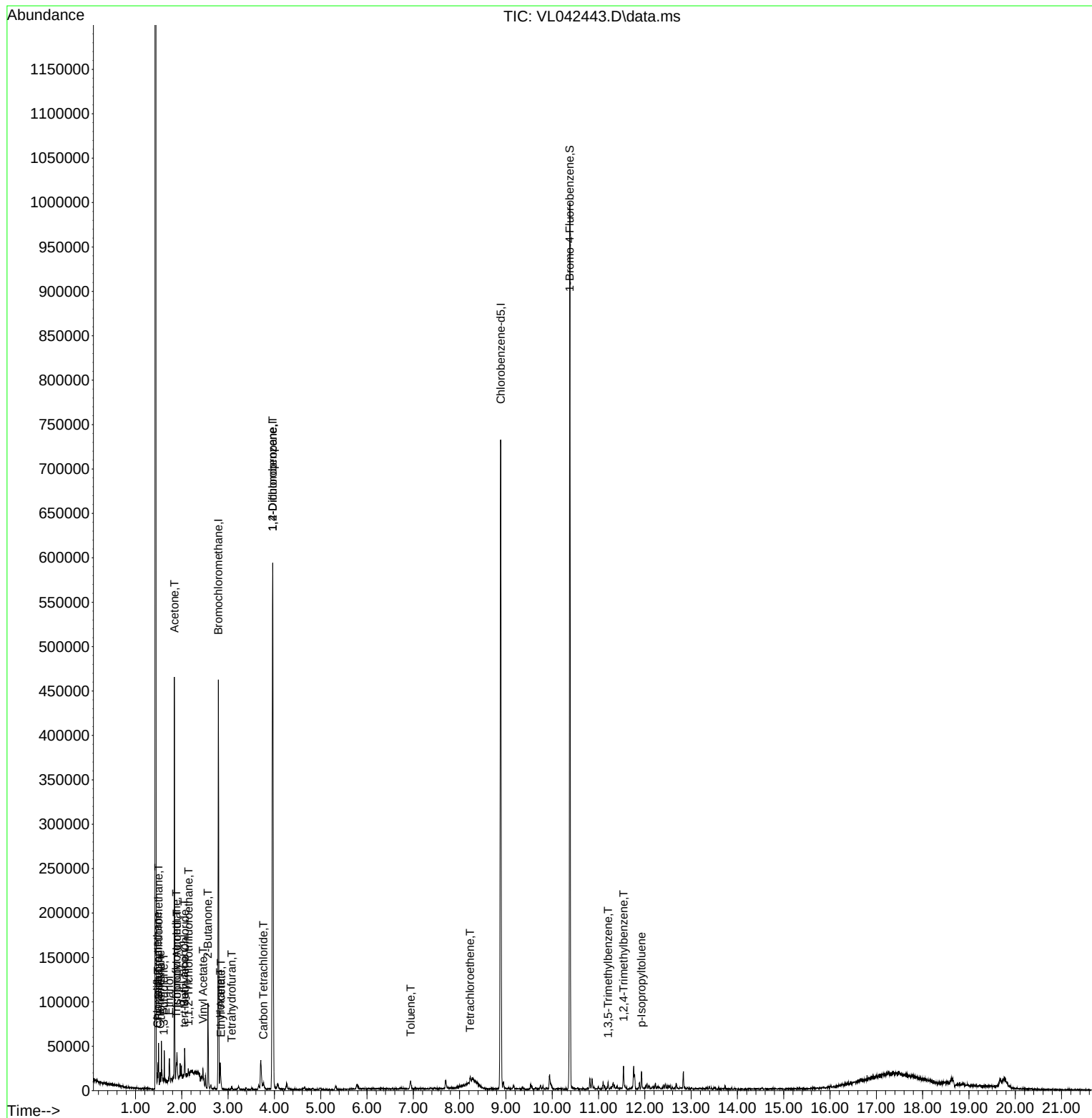
Internal Standards						
1) Bromochloromethane	2.790	49	116167	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	309224	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	265424	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	240596	11.031	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 110.300%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.499	85	10046	0.489	ppbv	100
3) Chlorodifluoromethane	1.476	51	6435	0.329	ppbv	98
4) Chloromethane	1.534	50	3300	0.406	ppbv	100
9) Propene	1.486	41	1749	0.197	ppbv	92
11) Trichlorofluoromethane	1.881	101	4172	0.214	ppbv	86
12) 1,1,2-Trichlorotrifluo...	2.143	101	1267	0.079	ppbv #	79
13) Ethanol	1.728	45	15309	10.821	ppbv	80
15) Acetone	1.839	43	209166	10.999	ppbv	98
16) 1,3-Butadiene	1.612	39	274	0.030	ppbv #	9
17) tert-Butyl alcohol	2.052	59	1884	0.080	ppbv #	67
19) Isopropyl Alcohol	1.894	45	15167	1.436	ppbv #	1
20) Methylene Chloride	2.065	84	4052	0.544	ppbv	91
23) Vinyl Acetate	2.457	43	10243	1.331	ppbv #	71
25) Ethyl Acetate	2.848	43	1953	0.042	ppbv #	17
26) Hexane	2.829	57	4458	0.235	ppbv #	1
34) 2-Butanone	2.564	43	58507	2.392	ppbv	95
35) Carbon Tetrachloride	3.764	117	1618	0.058	ppbv #	63
39) 1,2-Dichloropropane	3.965	63	90929	7.316	ppbv #	24
41) Tetrahydrofuran	3.078	42	653	0.046	ppbv #	40
52) Tetrachloroethene	8.228	164	484	0.038	ppbv #	19
53) Toluene	6.943	91	2557	0.064	ppbv #	1
69) p-Isopropyltoluene	11.927	119	5582	0.080	ppbv	99
73) 1,3,5-Trimethylbenzene	11.205	105	2303	0.050	ppbv	92
74) 1,2,4-Trimethylbenzene	11.539	105	7145	0.133	ppbv #	61

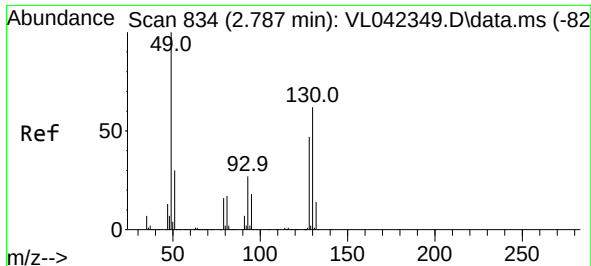
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042925\
Data File : VL042443.D
Acq On : 29 Apr 2025 13:11
Operator : SY/MD
Sample : Q1908-01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
B-1

Quant Time: Apr 30 01:19:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

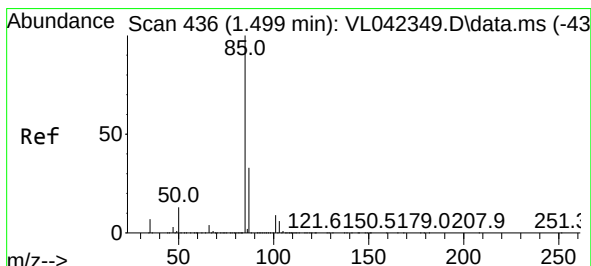
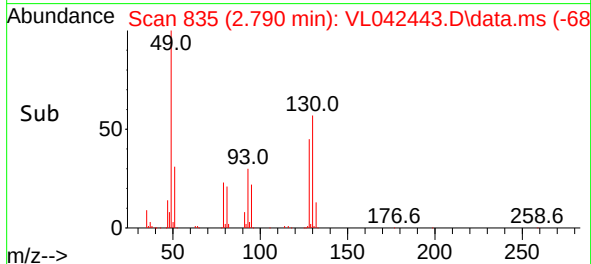
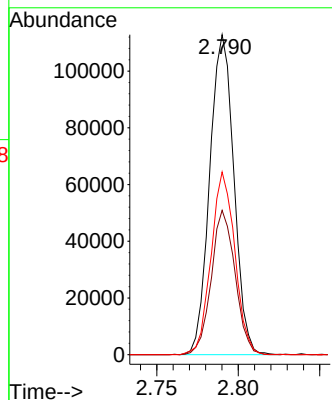
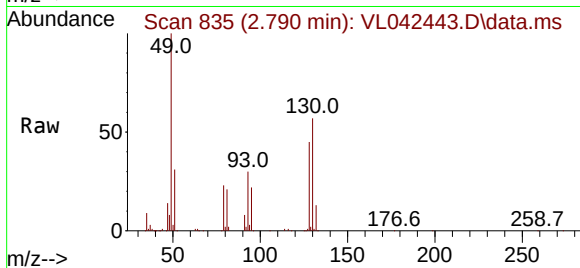




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 834
Delta R.T. 0.003 min
Lab File: VL042443.D
Acq: 29 Apr 2025 13:11

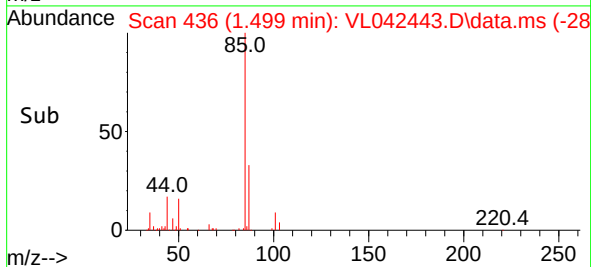
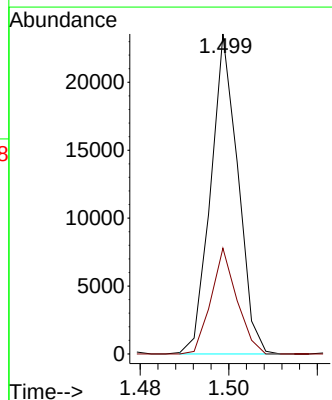
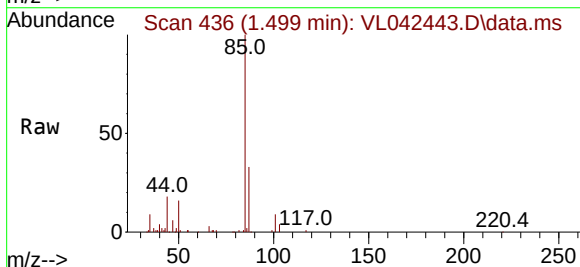
Instrument :
MSVOA_L
ClientSampleId :
B-1

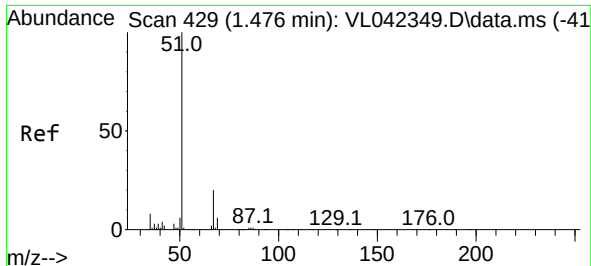
Tgt Ion: 49 Resp: 116167
Ion Ratio Lower Upper
49 100
128 44.6 22.8 68.4
130 56.3 29.3 88.0



#2
Dichlorodifluoromethane
Concen: 0.489 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042443.D
Acq: 29 Apr 2025 13:11

Tgt Ion: 85 Resp: 10046
Ion Ratio Lower Upper
85 100
87 33.0 26.6 39.8

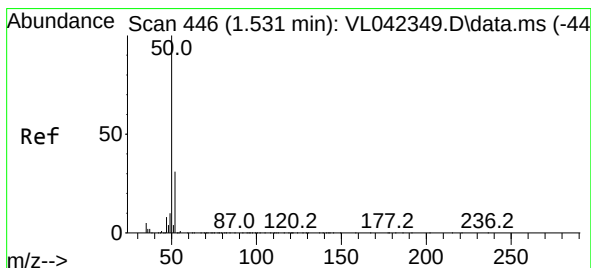
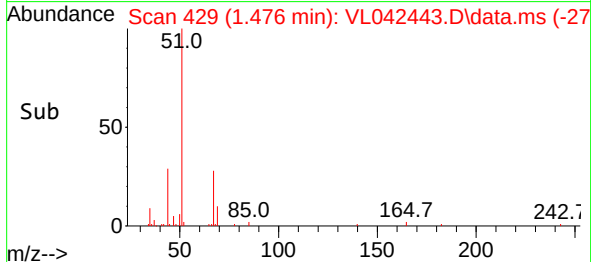
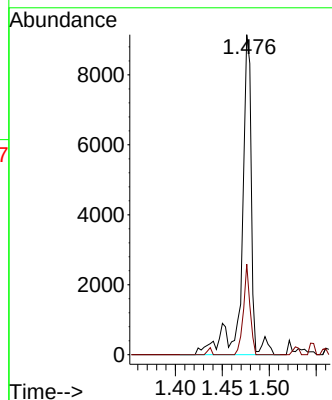
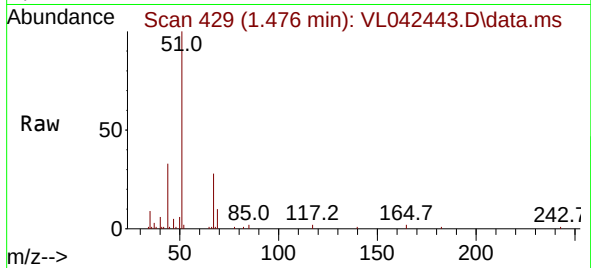




#3
Chlorodifluoromethane
Concen: 0.329 ppbv
RT: 1.476 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042443.D
Acq: 29 Apr 2025 13:11

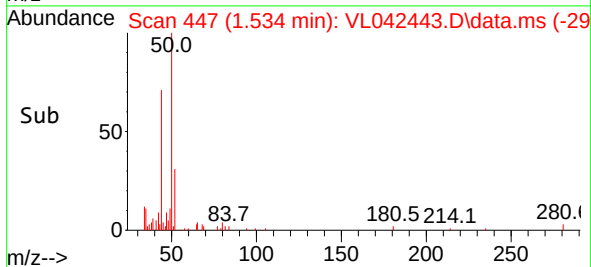
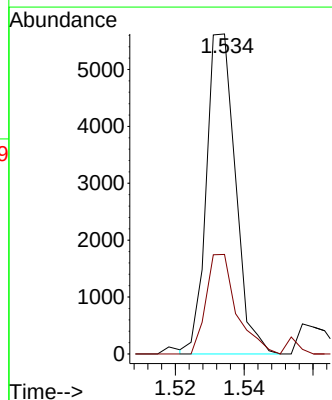
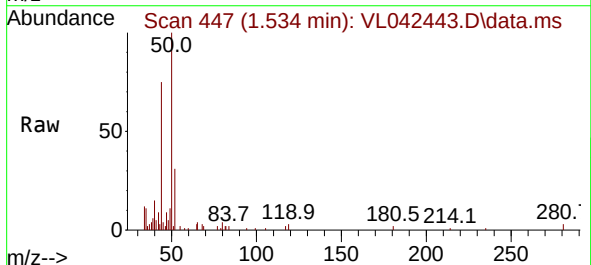
Instrument :
MSVOA_L
ClientSampleId :
B-1

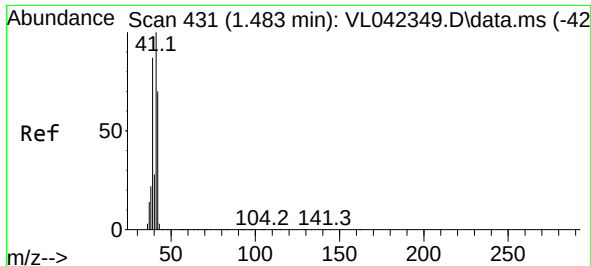
Tgt Ion: 51 Resp: 6435
Ion Ratio Lower Upper
51 100
67 19.6 16.2 24.4



#4
Chloromethane
Concen: 0.406 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042443.D
Acq: 29 Apr 2025 13:11

Tgt Ion: 50 Resp: 3300
Ion Ratio Lower Upper
50 100
52 31.1 24.7 37.1





#9

Propene

Concen: 0.197 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042443.D

Acq: 29 Apr 2025 13:11

Instrument :

MSVOA_L

ClientSampleId :

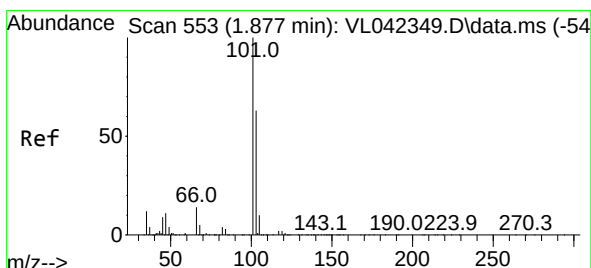
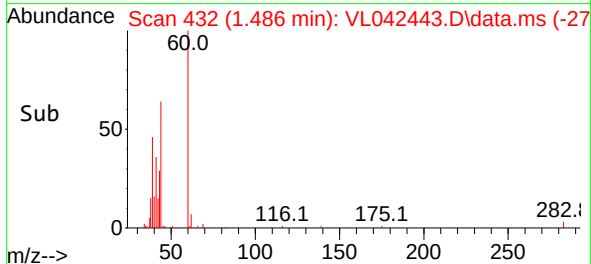
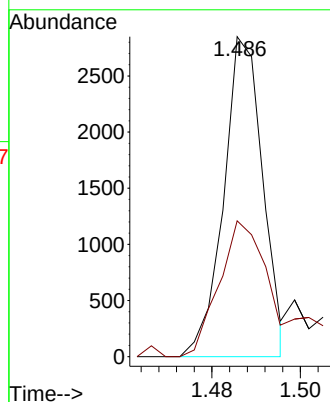
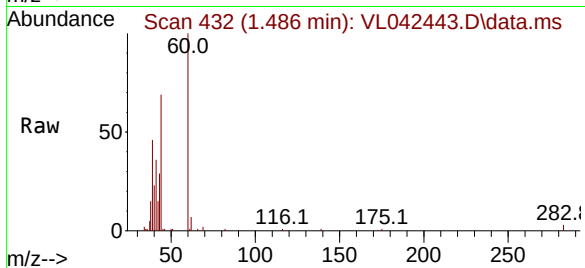
B-1

Tgt Ion: 41 Resp: 1749

Ion Ratio Lower Upper

41 100

42 64.1 56.2 84.4



#11

Trichlorofluoromethane

Concen: 0.214 ppbv

RT: 1.881 min Scan# 554

Delta R.T. 0.003 min

Lab File: VL042443.D

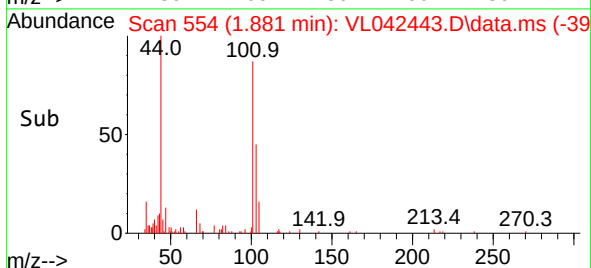
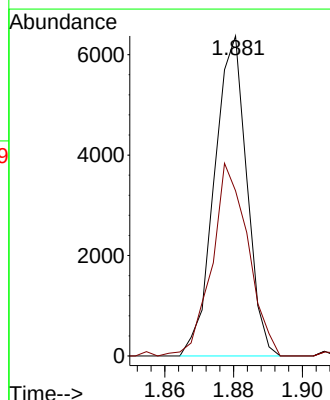
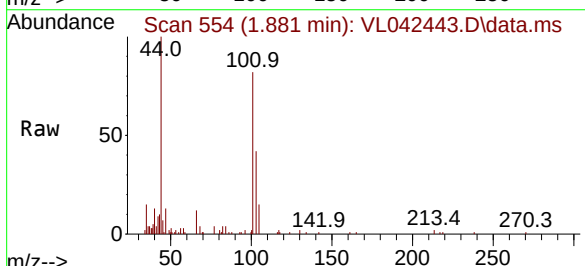
Acq: 29 Apr 2025 13:11

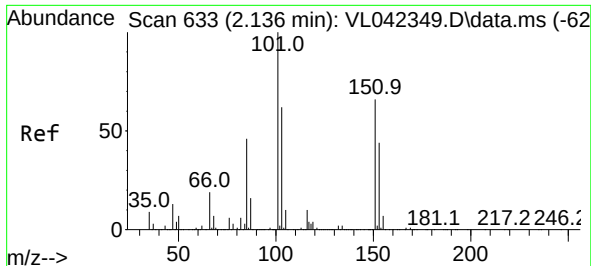
Tgt Ion: 101 Resp: 4172

Ion Ratio Lower Upper

101 100

103 51.6 50.1 75.1

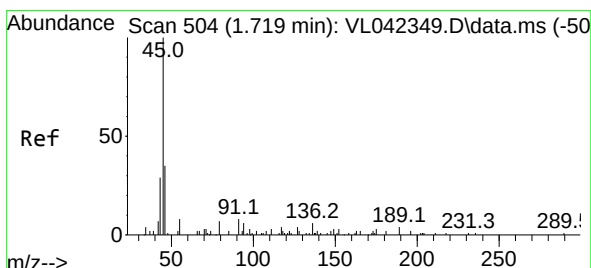
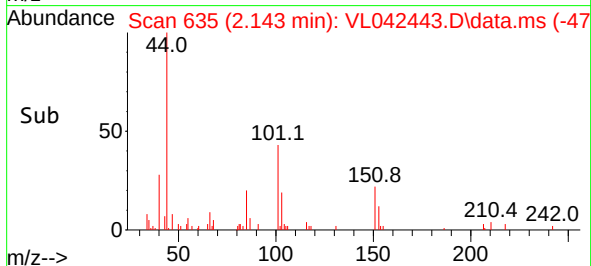
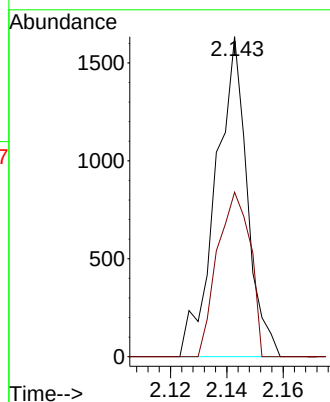
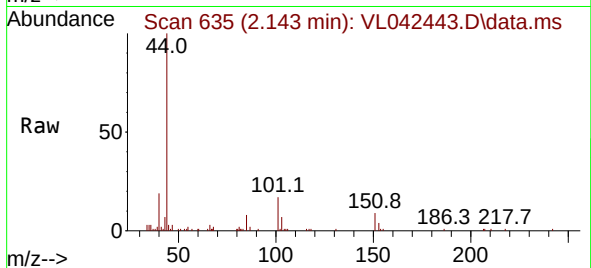




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.079 ppbv
RT: 2.143 min Scan# 61
Delta R.T. 0.006 min
Lab File: VL042443.D
Acq: 29 Apr 2025 13:11

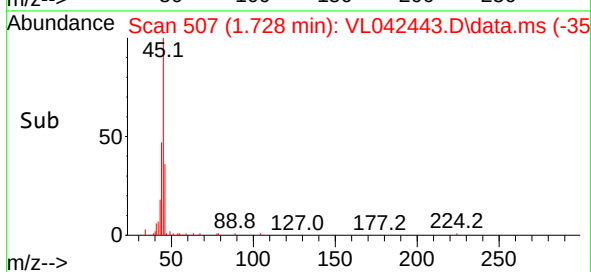
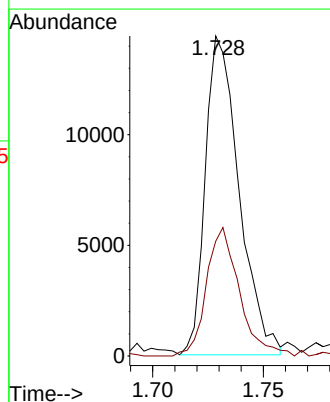
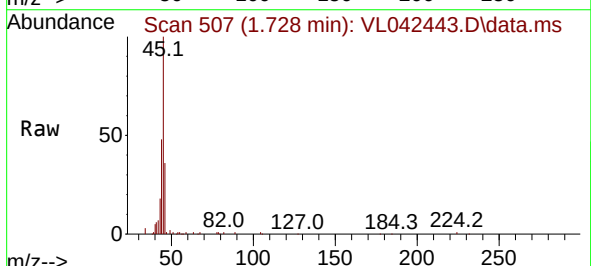
Instrument :
MSVOA_L
ClientSampleId :
B-1

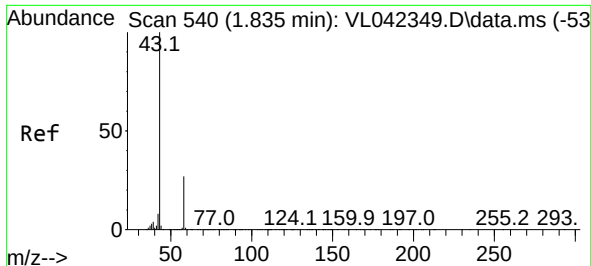
Tgt Ion:101 Resp: 1267
Ion Ratio Lower Upper
101 100
151 53.7 57.0 85.6#



#13
Ethanol
Concen: 10.821 ppbv
RT: 1.728 min Scan# 507
Delta R.T. 0.010 min
Lab File: VL042443.D
Acq: 29 Apr 2025 13:11

Tgt Ion: 45 Resp: 15309
Ion Ratio Lower Upper
45 100
46 40.3 21.9 87.7

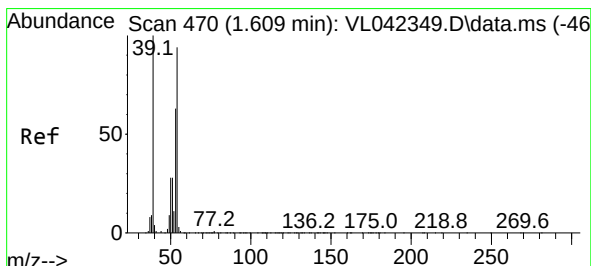
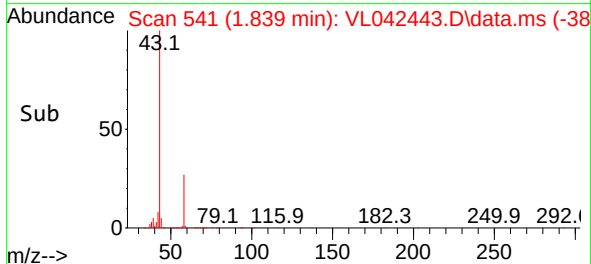
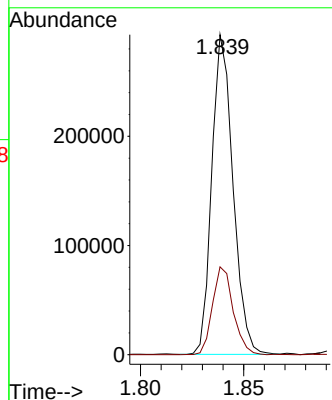
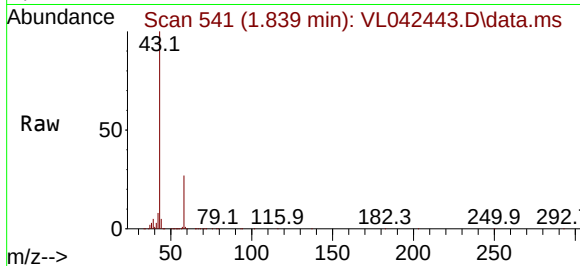




#15
Acetone
Concen: 10.999 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL042443.D
Acq: 29 Apr 2025 13:11

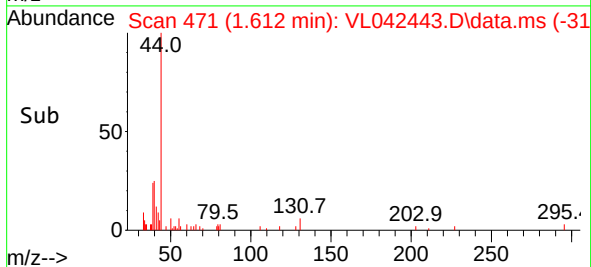
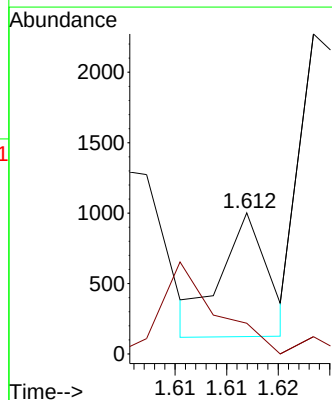
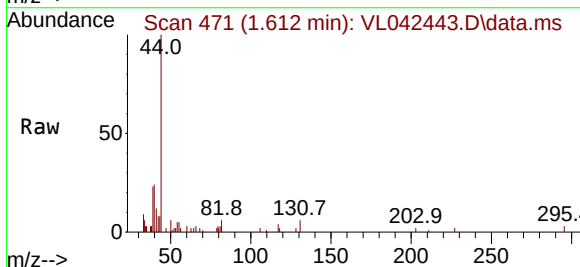
Instrument :
MSVOA_L
ClientSampleId :
B-1

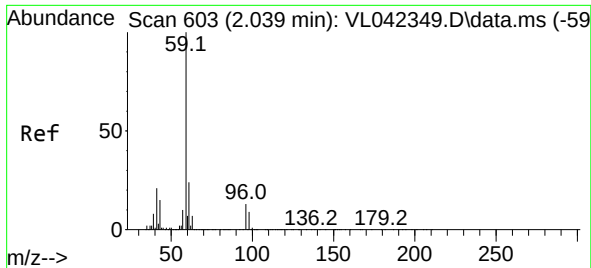
Tgt Ion: 43 Resp: 209166
Ion Ratio Lower Upper
43 100
58 26.8 22.4 33.6



#16
1,3-Butadiene
Concen: 0.030 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.003 min
Lab File: VL042443.D
Acq: 29 Apr 2025 13:11

Tgt Ion: 39 Resp: 274
Ion Ratio Lower Upper
39 100
54 0.0 64.9 97.3#





#17

tert-Butyl alcohol

Concen: 0.080 ppbv

RT: 2.052 min Scan# 603

Delta R.T. 0.013 min

Lab File: VL042443.D

Acq: 29 Apr 2025 13:11

Instrument :

MSVOA_L

ClientSampleId :

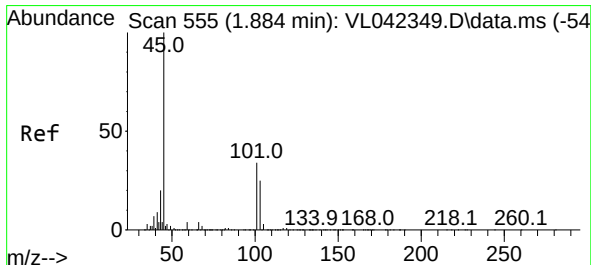
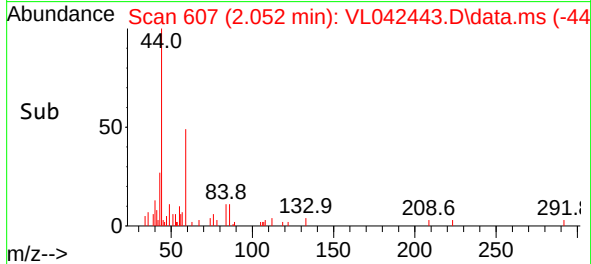
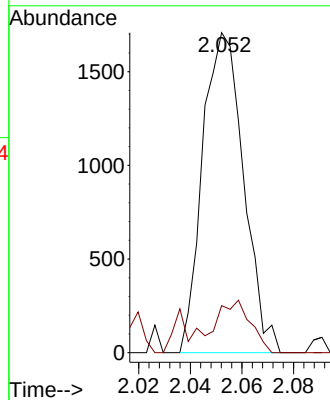
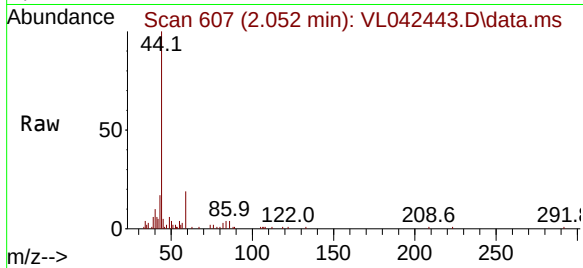
B-1

Tgt Ion: 59 Resp: 1884

Ion Ratio Lower Upper

59 100

57 23.5 8.7 13.1#



#19

Isopropyl Alcohol

Concen: 1.436 ppbv

RT: 1.894 min Scan# 558

Delta R.T. 0.010 min

Lab File: VL042443.D

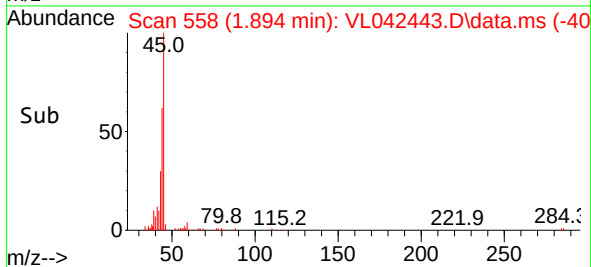
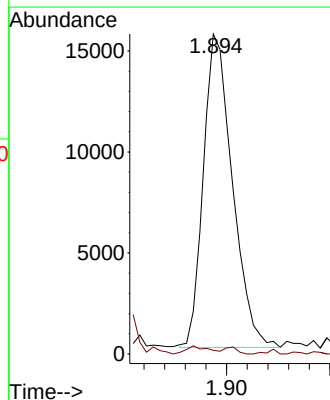
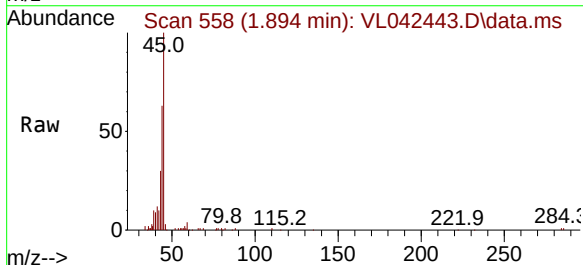
Acq: 29 Apr 2025 13:11

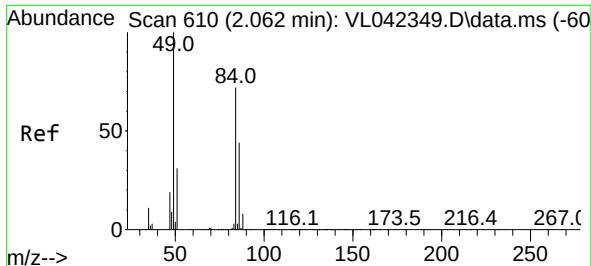
Tgt Ion: 45 Resp: 15167

Ion Ratio Lower Upper

45 100

58 369.6 34.5 51.7#





#20

Methylene Chloride

Concen: 0.544 ppbv

RT: 2.065 min Scan# 610

Delta R.T. 0.003 min

Lab File: VL042443.D

Acq: 29 Apr 2025 13:11

Instrument :

MSVOA_1

ClientSampleId :

B-1

Tgt Ion: 84 Resp: 4052

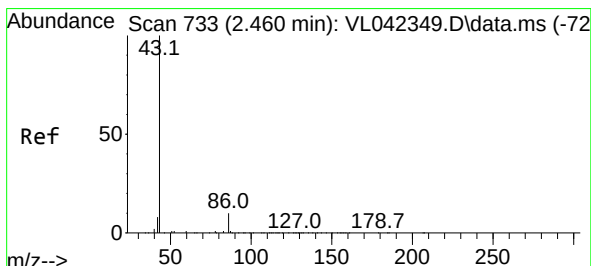
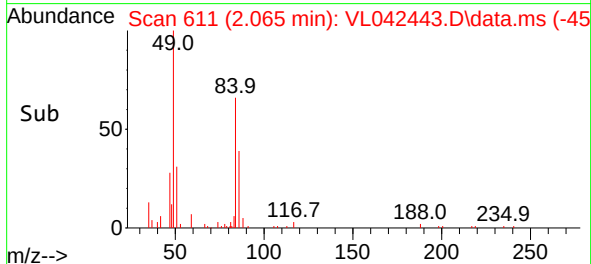
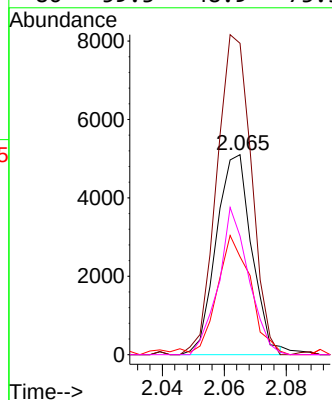
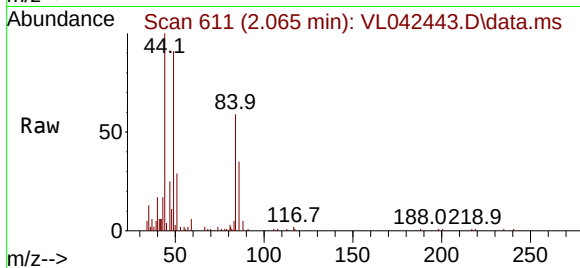
Ion Ratio Lower Upper

84 100

49 155.6 111.6 167.4

51 47.2 35.1 52.7

86 59.3 48.9 73.3



#23

Vinyl Acetate

Concen: 1.331 ppbv

RT: 2.457 min Scan# 732

Delta R.T. -0.003 min

Lab File: VL042443.D

Acq: 29 Apr 2025 13:11

Tgt Ion: 43 Resp: 10243

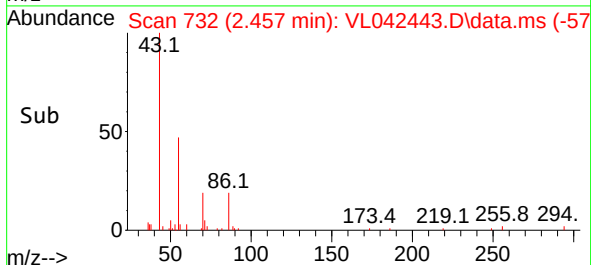
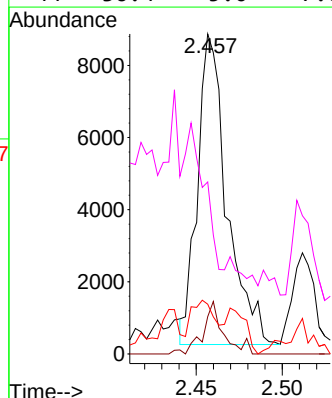
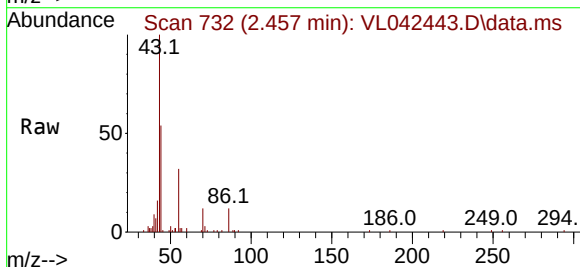
Ion Ratio Lower Upper

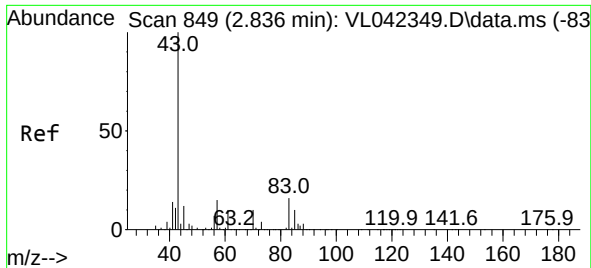
43 100

86 12.0 6.5 9.7#

42 11.9 7.8 11.8#

44 36.4 5.0 7.6#

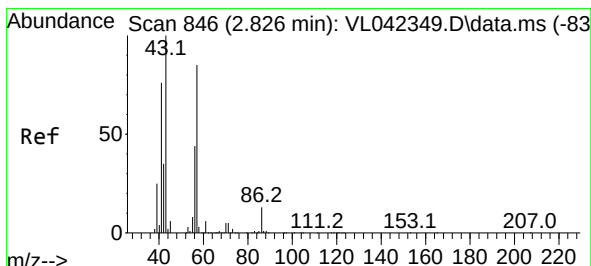
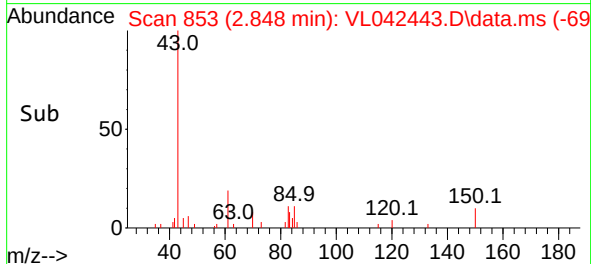
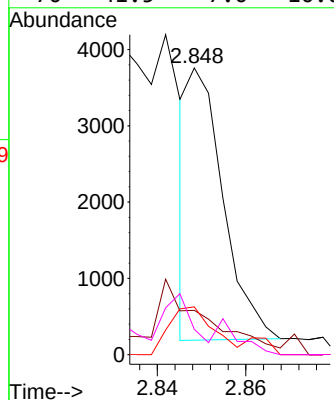
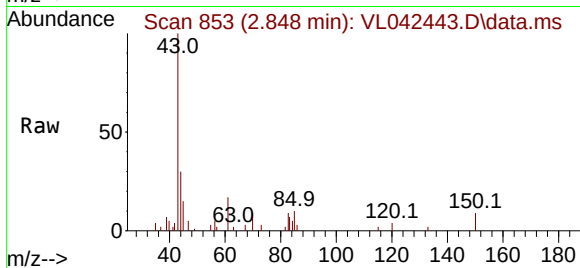




#25
Ethyl Acetate
Concen: 0.042 ppbv
RT: 2.848 min Scan# 81
Delta R.T. 0.013 min
Lab File: VL042443.D
Acq: 29 Apr 2025 13:11

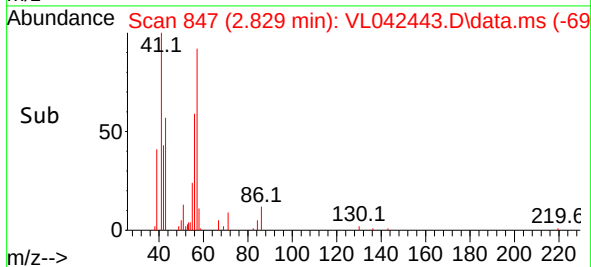
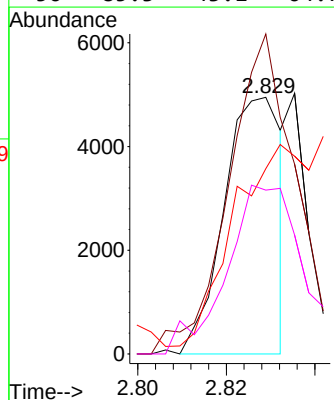
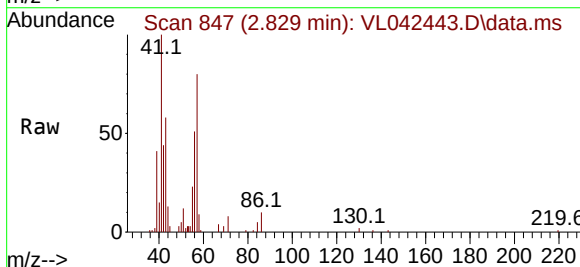
Instrument :
MSVOA_L
ClientSampleId :
B-1

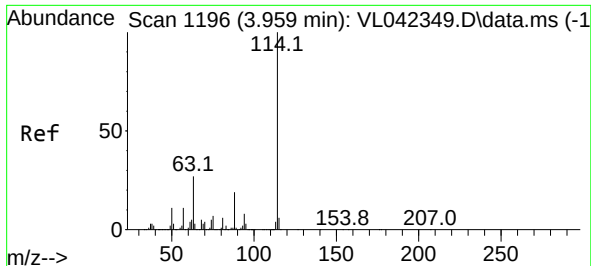
Tgt Ion:	43	Resp:	1953
Ion	Ratio	Lower	Upper
43	100		
45	50.2	8.3	12.5#
61	26.9	7.3	10.9#
70	41.5	7.0	10.6#



#26
Hexane
Concen: 0.235 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.003 min
Lab File: VL042443.D
Acq: 29 Apr 2025 13:11

Tgt Ion:	57	Resp:	4458
Ion	Ratio	Lower	Upper
57	100		
41	146.5	77.9	116.9#
43	0.0	208.4	312.6#
56	85.3	43.1	64.7#

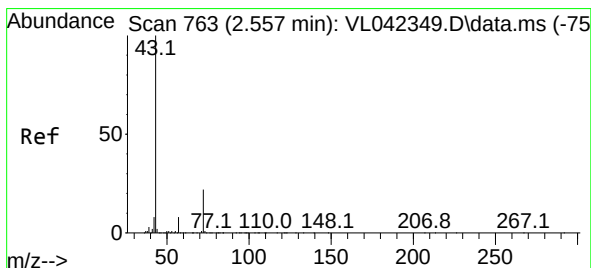
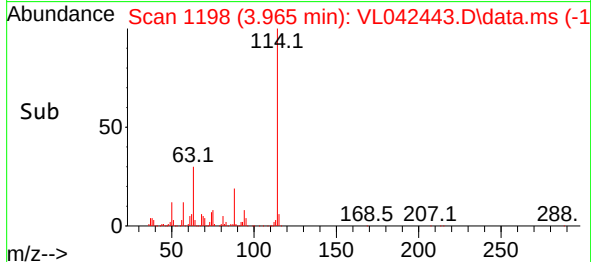
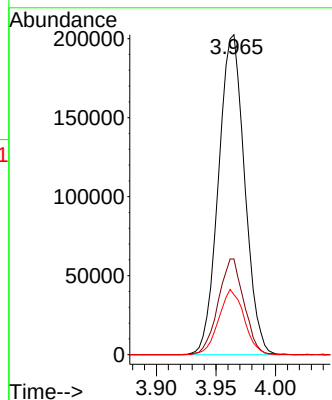
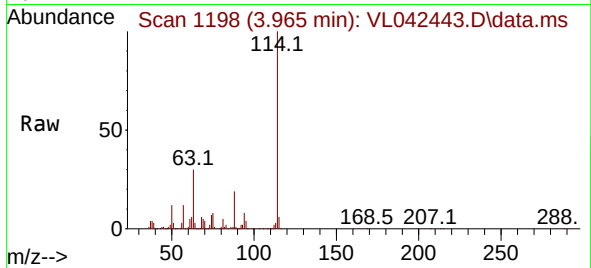




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1196
Delta R.T. 0.006 min
Lab File: VL042443.D
Acq: 29 Apr 2025 13:11

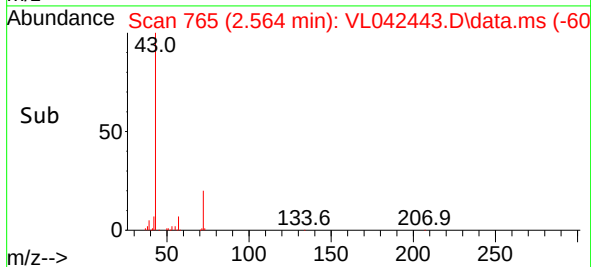
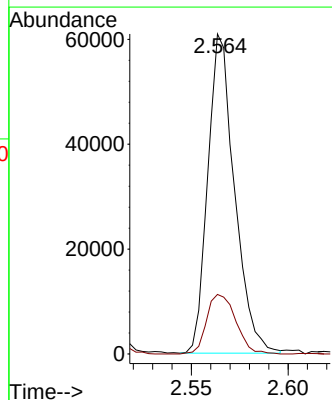
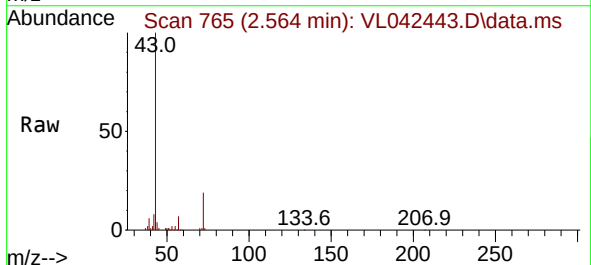
Instrument :
MSVOA_L
ClientSampleId :
B-1

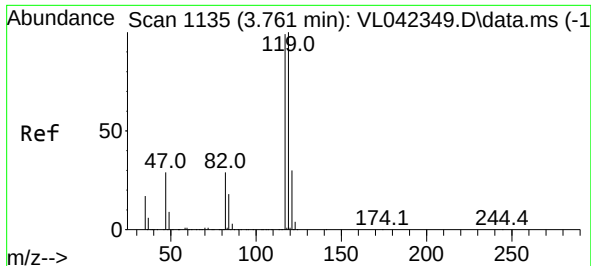
Tgt Ion:114 Resp: 309224
Ion Ratio Lower Upper
114 100
63 29.4 21.8 32.6
88 19.8 15.5 23.3



#34
2-Butanone
Concen: 2.392 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.006 min
Lab File: VL042443.D
Acq: 29 Apr 2025 13:11

Tgt Ion: 43 Resp: 58507
Ion Ratio Lower Upper
43 100
72 20.4 18.2 27.2

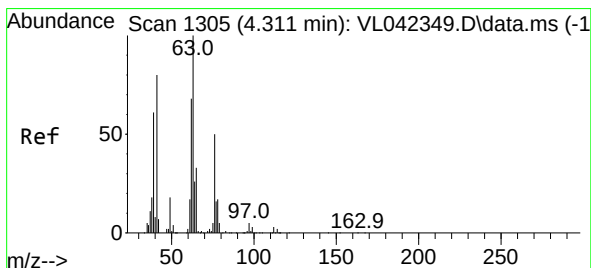
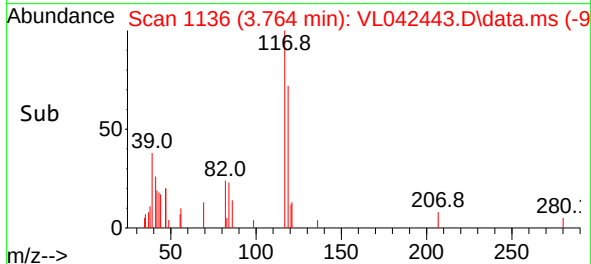
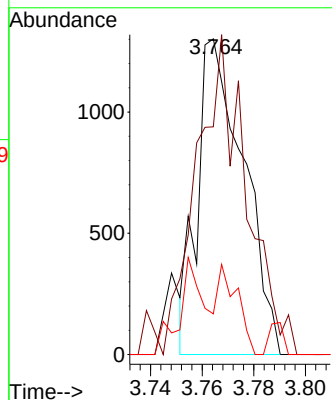
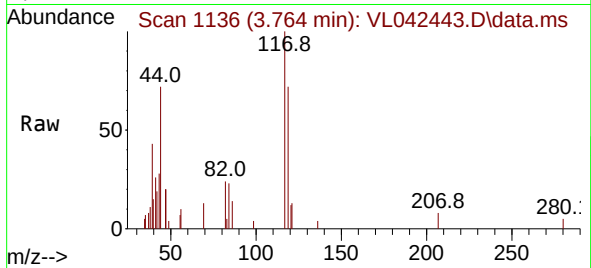




#35
Carbon Tetrachloride
Concen: 0.058 ppbv
RT: 3.764 min Scan# 1135
Delta R.T. 0.003 min
Lab File: VL042443.D
Acq: 29 Apr 2025 13:11

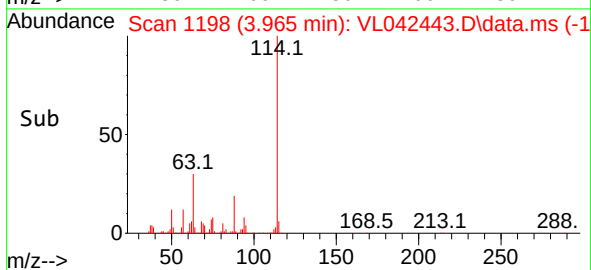
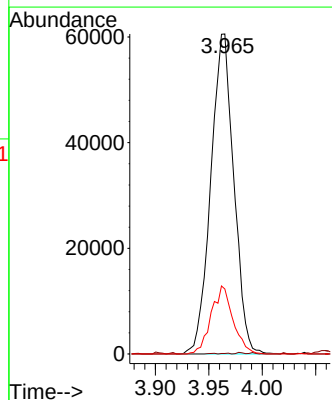
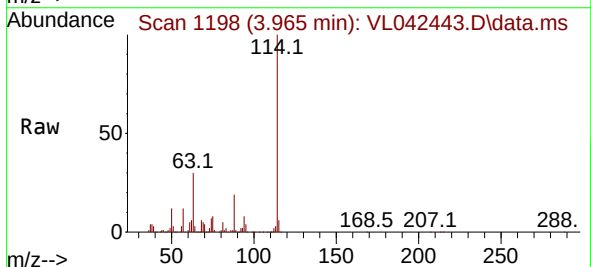
Instrument :
MSVOA_L
ClientSampleId :
B-1

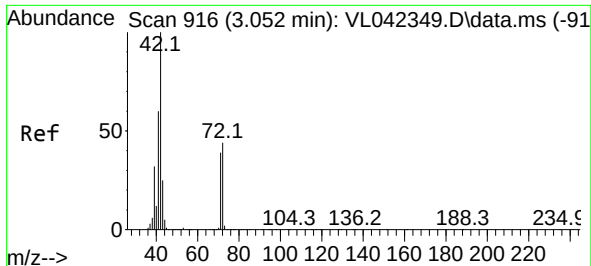
Tgt Ion:117 Resp: 1618
Ion Ratio Lower Upper
117 100
119 65.9 80.5 120.7#
121 5.1 24.2 36.2#



#39
1,2-Dichloropropane
Concen: 7.316 ppbv
RT: 3.965 min Scan# 1198
Delta R.T. -0.346 min
Lab File: VL042443.D
Acq: 29 Apr 2025 13:11

Tgt Ion: 63 Resp: 90929
Ion Ratio Lower Upper
63 100
41 0.1 64.2 96.2#
62 20.3 54.3 81.5#

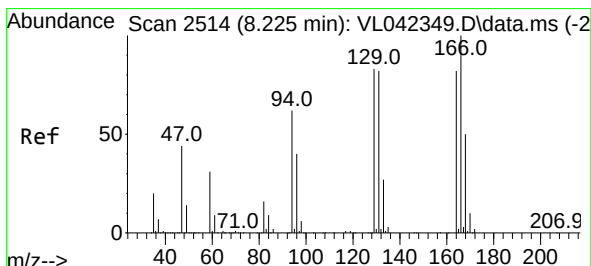
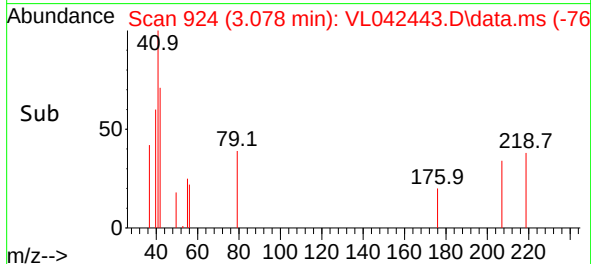
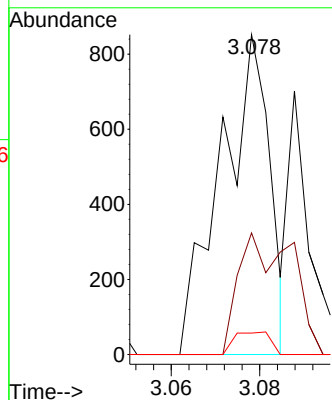
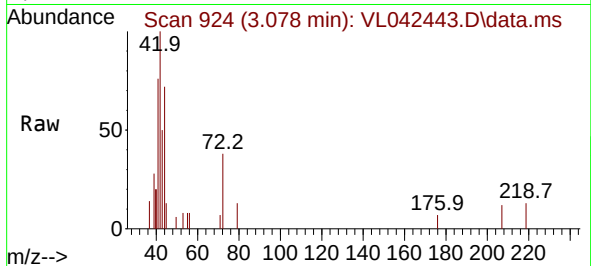




#41
Tetrahydrofuran
Concen: 0.046 ppbv
RT: 3.078 min Scan# 916
Delta R.T. 0.026 min
Lab File: VL042443.D
Acq: 29 Apr 2025 13:11

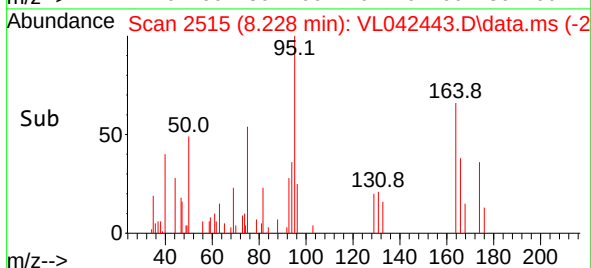
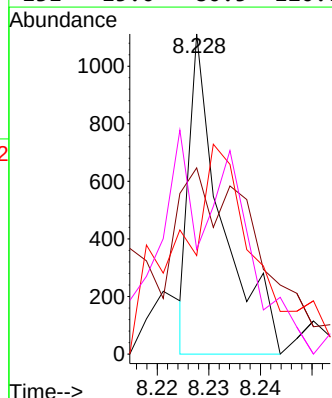
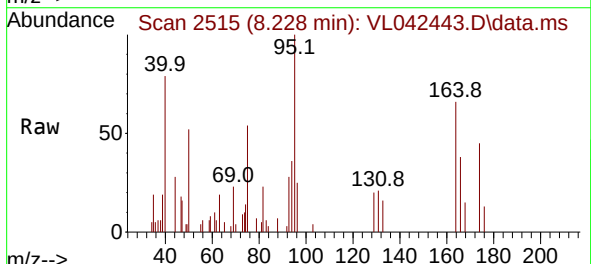
Instrument :
MSVOA_L
ClientSampleId :
B-1

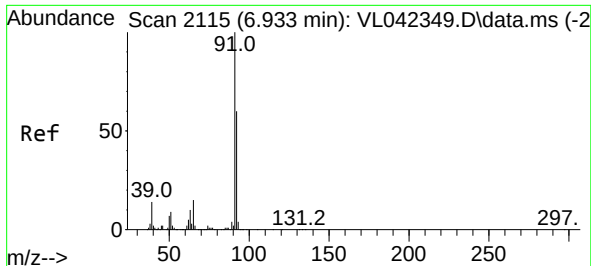
Tgt Ion: 42 Resp: 653
Ion Ratio Lower Upper
42 100
72 0.0 32.3 48.5#
71 5.2 31.4 47.2#



#52
Tetrachloroethene
Concen: 0.038 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. 0.003 min
Lab File: VL042443.D
Acq: 29 Apr 2025 13:11

Tgt Ion: 164 Resp: 484
Ion Ratio Lower Upper
164 100
166 36.6 98.2 147.2#
129 17.4 81.8 122.8#
131 15.0 80.5 120.7#

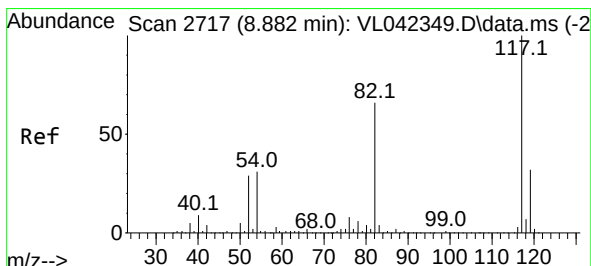
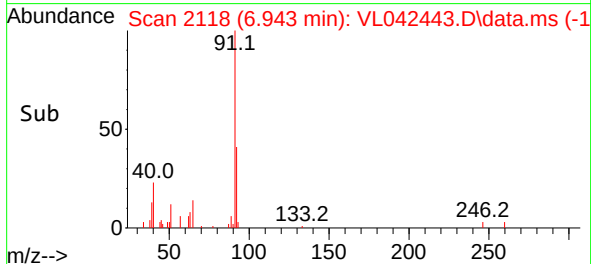
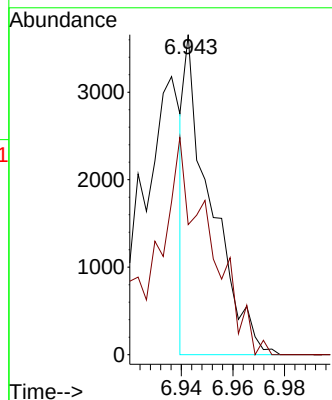
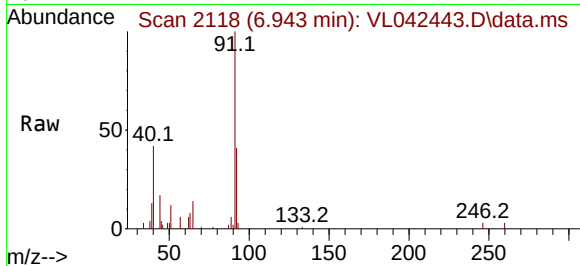




#53
Toluene
Concen: 0.064 ppbv
RT: 6.943 min Scan# 2115
Delta R.T. 0.010 min
Lab File: VL042443.D
Acq: 29 Apr 2025 13:11

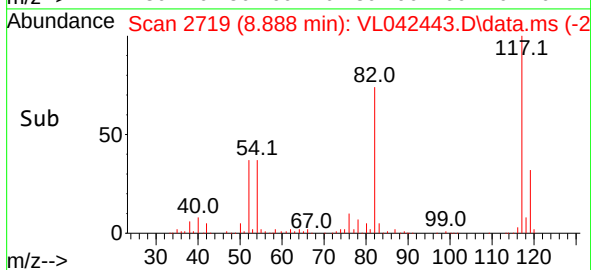
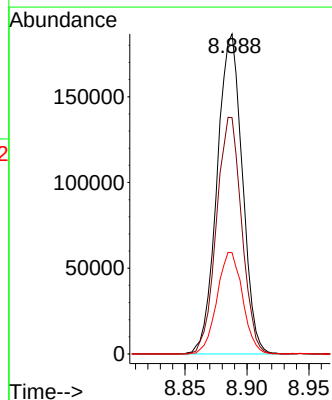
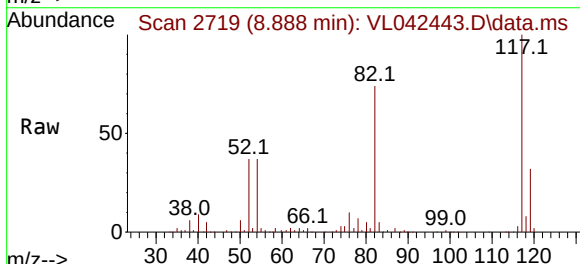
Instrument :
MSVOA_L
ClientSampleId :
B-1

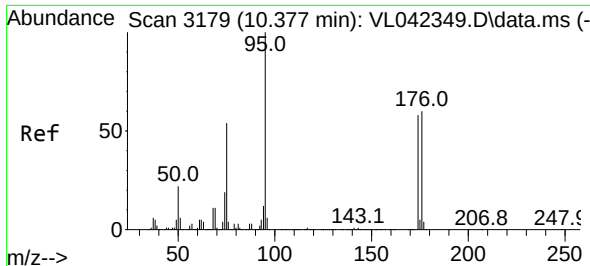
Tgt Ion: 91 Resp: 2557
Ion Ratio Lower Upper
91 100
92 142.0 48.2 72.4#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2719
Delta R.T. 0.006 min
Lab File: VL042443.D
Acq: 29 Apr 2025 13:11

Tgt Ion: 117 Resp: 265424
Ion Ratio Lower Upper
117 100
82 73.9 57.8 86.6
119 32.1 25.2 37.8

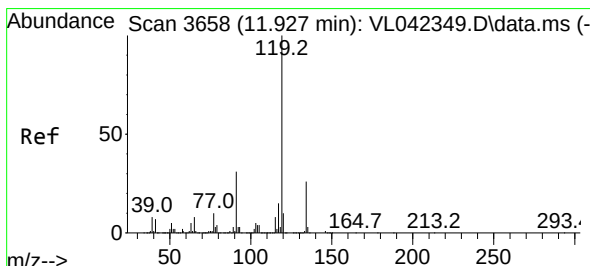
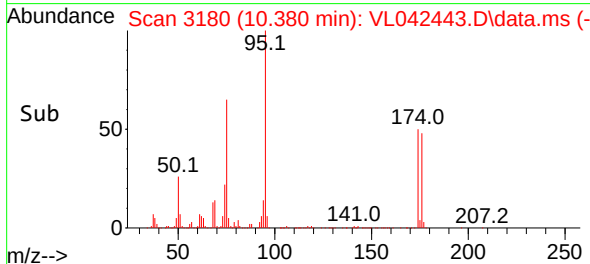
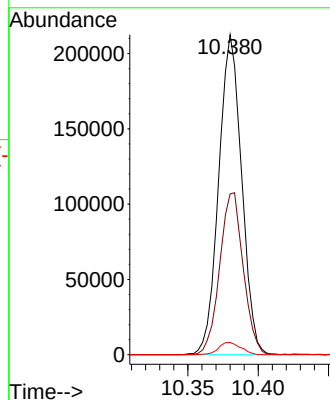
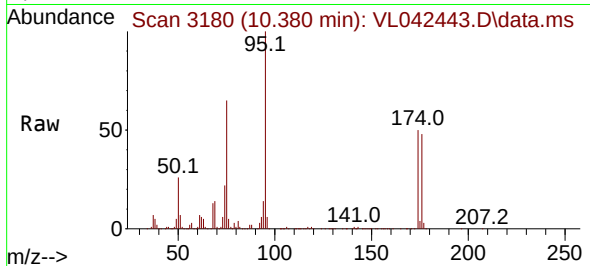




#68
1-Bromo-4-Fluorobenzene
Concen: 11.031 ppbv
RT: 10.380 min Scan# 3179
Delta R.T. 0.003 min
Lab File: VL042443.D
Acq: 29 Apr 2025 13:11

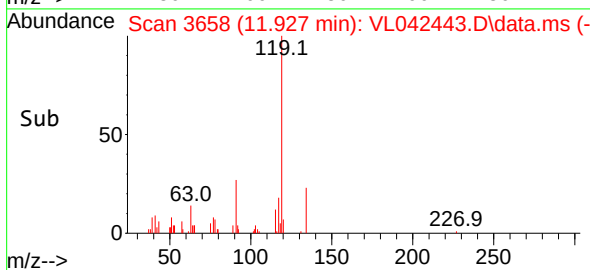
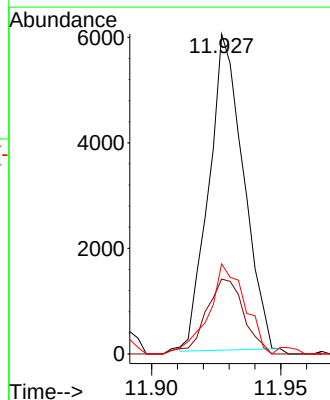
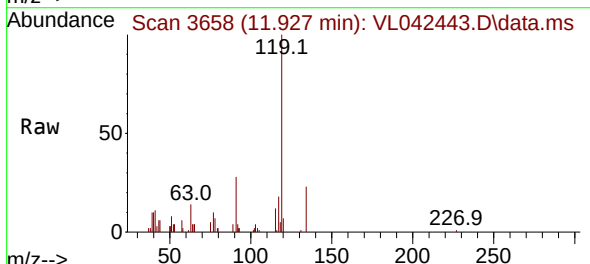
Instrument :
MSVOA_L
ClientSampleId :
B-1

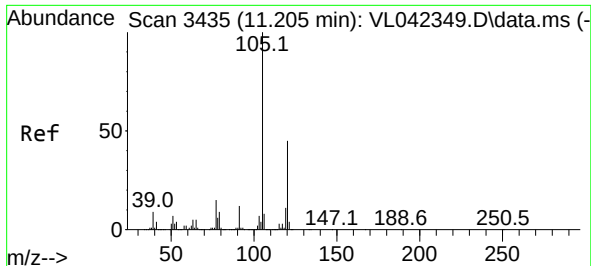
Tgt Ion: 95 Resp: 240596
Ion Ratio Lower Upper
95 100
174 52.0 48.5 72.7
175 3.7 3.7 5.5



#69
p-Isopropyltoluene
Concen: 0.080 ppbv
RT: 11.927 min Scan# 3658
Delta R.T. -0.000 min
Lab File: VL042443.D
Acq: 29 Apr 2025 13:11

Tgt Ion: 119 Resp: 5582
Ion Ratio Lower Upper
119 100
134 25.9 20.0 30.0
91 30.8 24.4 36.6

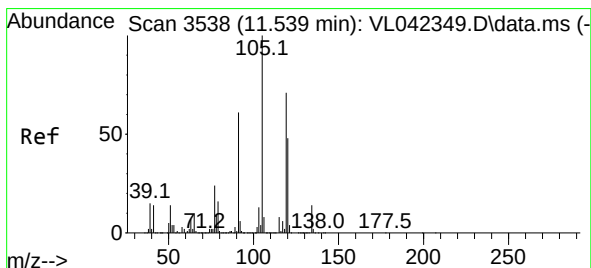
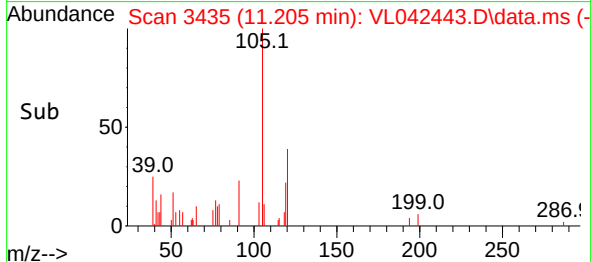
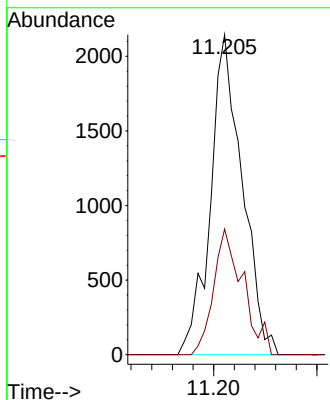
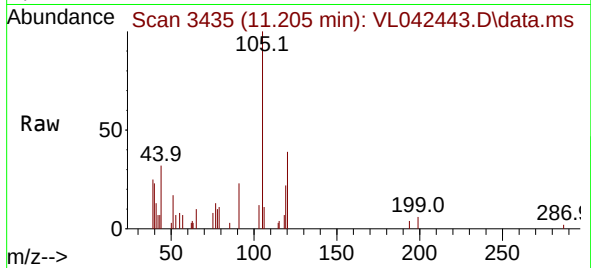




#73
1,3,5-Trimethylbenzene
Concen: 0.050 ppbv
RT: 11.205 min Scan# 3435
Delta R.T. -0.000 min
Lab File: VL042443.D
Acq: 29 Apr 2025 13:11

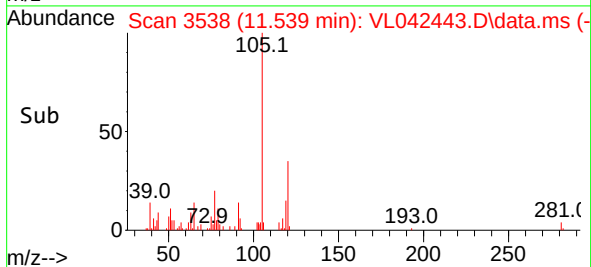
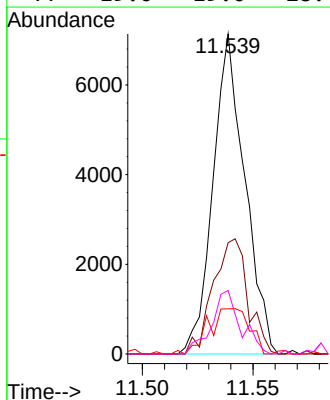
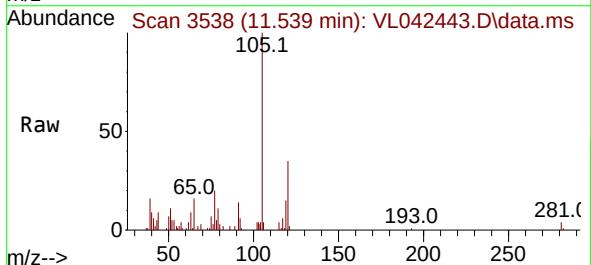
Instrument :
MSVOA_L
ClientSampleId :
B-1

Tgt Ion:105 Resp: 2303
Ion Ratio Lower Upper
105 100
120 39.3 35.6 53.4



#74
1,2,4-Trimethylbenzene
Concen: 0.133 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. -0.000 min
Lab File: VL042443.D
Acq: 29 Apr 2025 13:11

Tgt Ion:105 Resp: 7145
Ion Ratio Lower Upper
105 100
120 33.3 38.1 57.1#
91 12.7 48.8 73.2#
77 19.0 19.0 28.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042925\
 Data File : VL042445.D
 Acq On : 29 Apr 2025 14:19
 Operator : SY/MD
 Sample : Q1908-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 B-3

Quant Time: Apr 30 01:20:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 02:14:00 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.794	49	116924	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.966	114	304231	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.889	117	256038	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.381	95	232994	11.074	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	110.700%

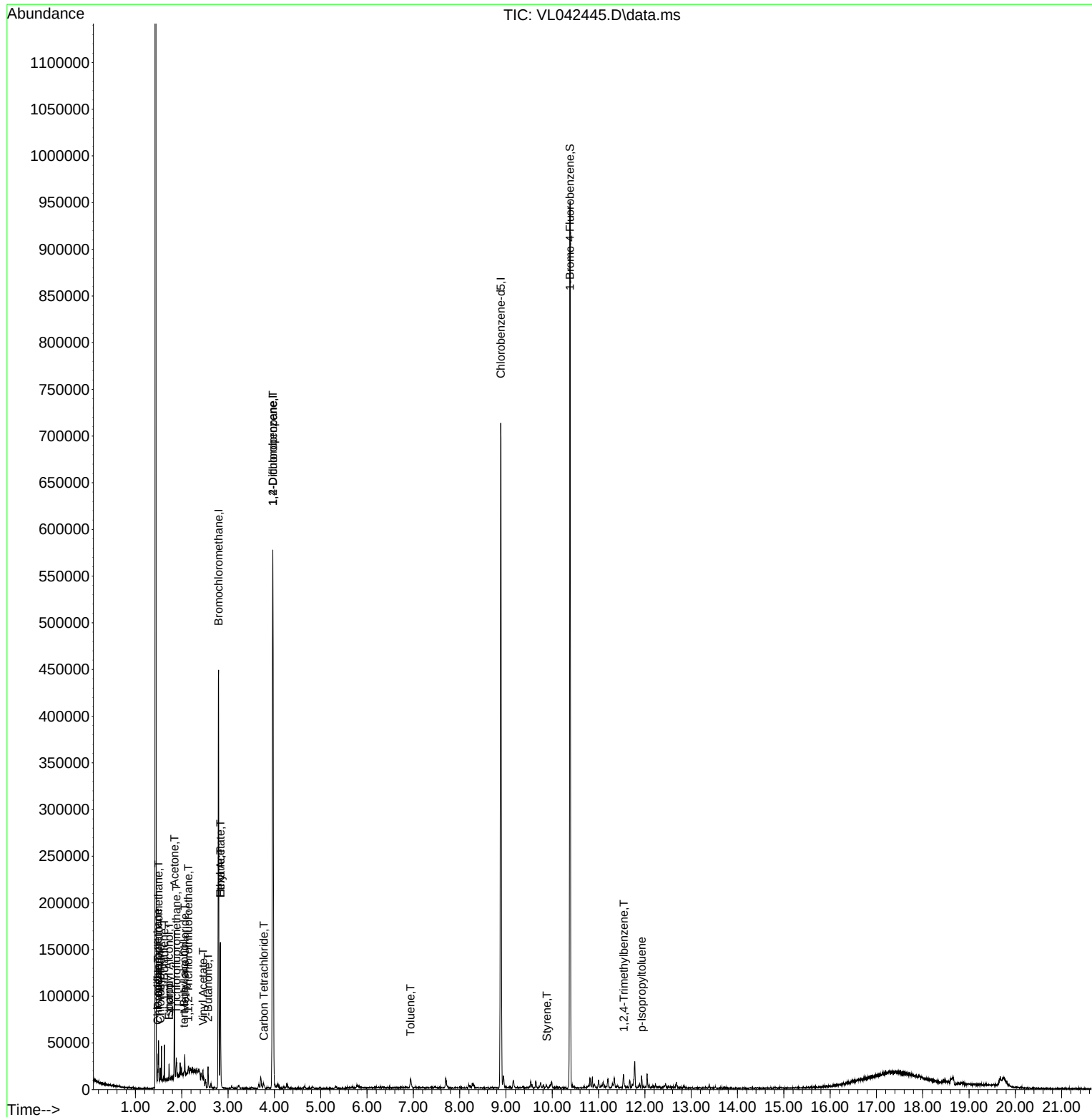
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	10212	0.494	ppbv	95
3) Chlorodifluoromethane	1.480	51	6658	0.338	ppbv	100
4) Chloromethane	1.535	50	3848	0.471	ppbv	94
9) Propene	1.490	41	2081	0.232	ppbv	96
11) Trichlorofluoromethane	1.881	101	4449	0.226	ppbv	95
12) 1,1,2-Trichlorotrifluo...	2.140	101	978	0.061	ppbv #	75
13) Ethanol	1.726	45	6146	4.316	ppbv #	24
15) Acetone	1.839	43	66029	3.450	ppbv	97
16) 1,3-Butadiene	1.622	39	2347	0.256	ppbv #	16
17) tert-Butyl alcohol	2.049	59	965	0.041	ppbv #	71
19) Isopropyl Alcohol	1.726	45	6146	0.578	ppbv #	63
20) Methylene Chloride	2.062	84	2823	0.377	ppbv #	81
23) Vinyl Acetate	2.457	43	5316	0.686	ppbv #	81
25) Ethyl Acetate	2.833	43	24301	0.515	ppbv #	77
26) Hexane	2.833	57	34265	1.794	ppbv #	30
34) 2-Butanone	2.567	43	12554	0.522	ppbv	97
35) Carbon Tetrachloride	3.775	117	1499	0.054	ppbv #	64
39) 1,2-Dichloropropane	3.966	63	85815	7.018	ppbv #	24
53) Toluene	6.940	91	6054	0.154	ppbv	97
61) Styrene	9.882	104	590	0.030	ppbv #	30
69) p-Isopropyltoluene	11.931	119	4106	0.061	ppbv	92
74) 1,2,4-Trimethylbenzene	11.543	105	2714	0.052	ppbv #	60

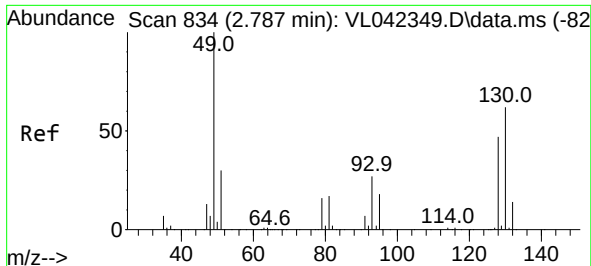
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042925\
Data File : VL042445.D
Acq On : 29 Apr 2025 14:19
Operator : SY/MD
Sample : Q1908-03
Misc : 400mL/MSVOA_L
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
B-3

Quant Time: Apr 30 01:20:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

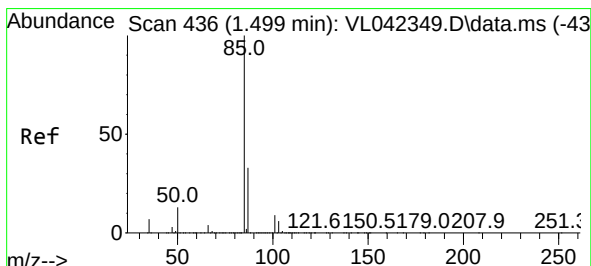
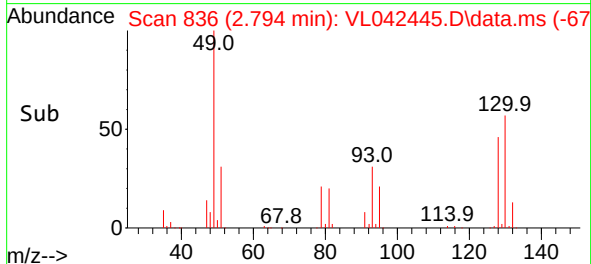
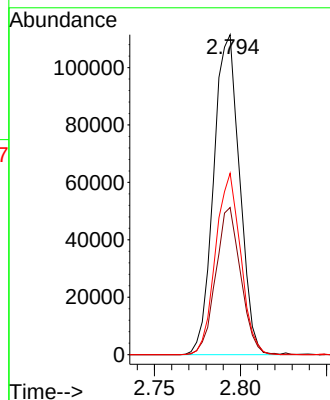
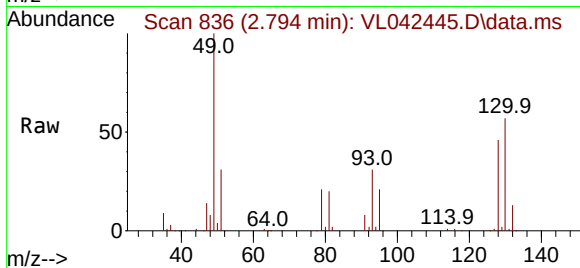




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.794 min Scan# 81
 Delta R.T. 0.007 min
 Lab File: VL042445.D
 Acq: 29 Apr 2025 14:19

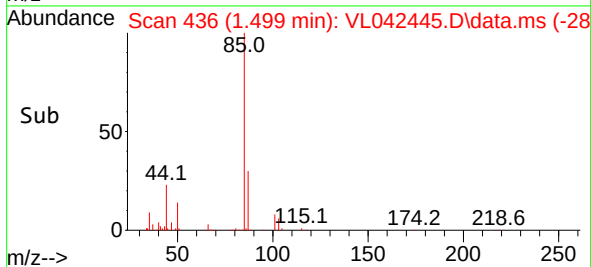
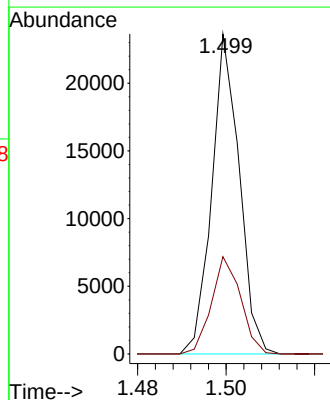
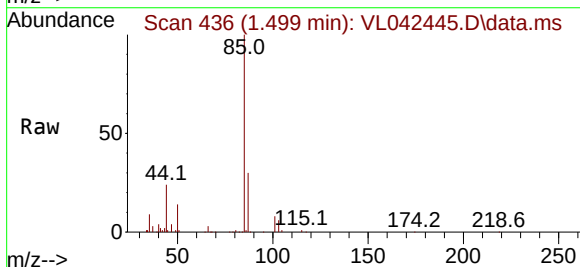
Instrument :
 MSVOA_L
 ClientSampleId :
 B-3

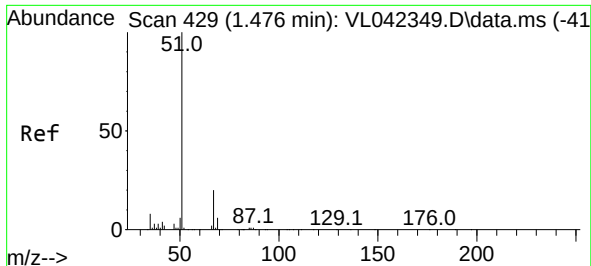
Tgt Ion: 49 Resp: 116924
 Ion Ratio Lower Upper
 49 100
 128 44.4 22.8 68.4
 130 54.8 29.3 88.0



#2
 Dichlorodifluoromethane
 Concen: 0.494 ppbv
 RT: 1.499 min Scan# 436
 Delta R.T. 0.001 min
 Lab File: VL042445.D
 Acq: 29 Apr 2025 14:19

Tgt Ion: 85 Resp: 10212
 Ion Ratio Lower Upper
 85 100
 87 30.4 26.6 39.8

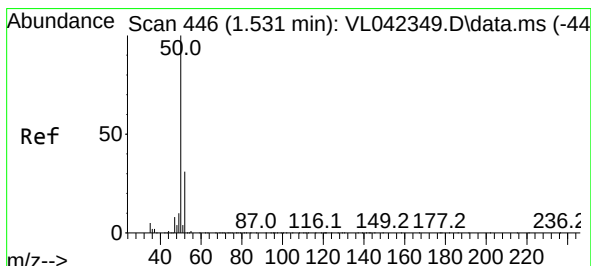
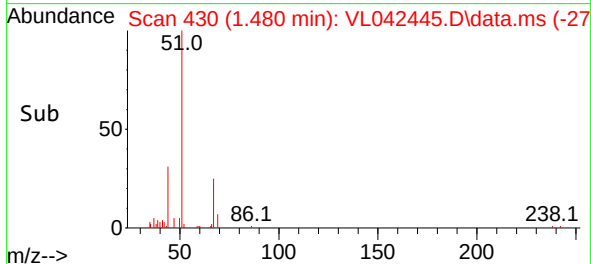
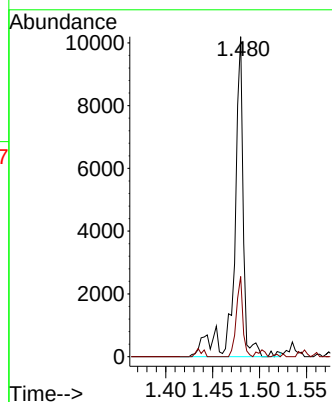
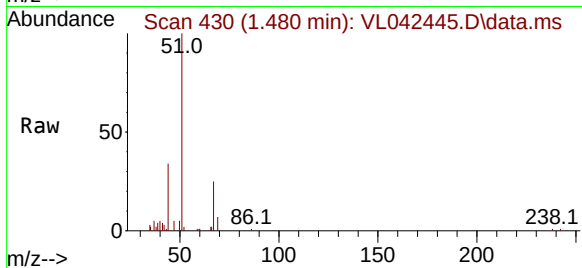




#3
Chlorodifluoromethane
Concen: 0.338 ppbv
RT: 1.480 min Scan# 41
Delta R.T. 0.004 min
Lab File: VL042445.D
Acq: 29 Apr 2025 14:19

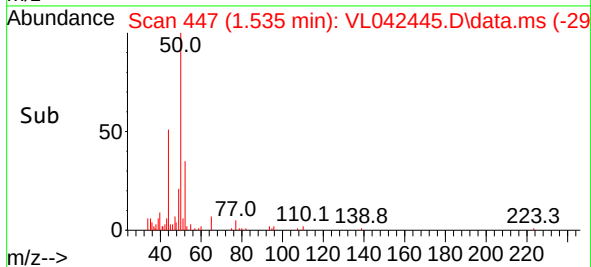
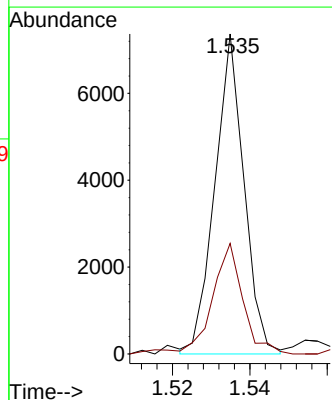
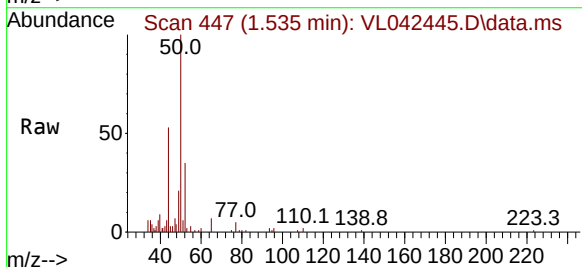
Instrument :
MSVOA_1
ClientSampleId :
B-3

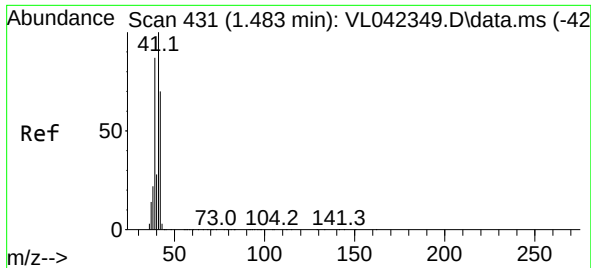
Tgt Ion: 51 Resp: 6658
Ion Ratio Lower Upper
51 100
67 20.4 16.2 24.4



#4
Chloromethane
Concen: 0.471 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.004 min
Lab File: VL042445.D
Acq: 29 Apr 2025 14:19

Tgt Ion: 50 Resp: 3848
Ion Ratio Lower Upper
50 100
52 34.2 24.7 37.1





#9

Propene

Concen: 0.232 ppbv

RT: 1.490 min Scan# 41

Delta R.T. 0.007 min

Lab File: VL042445.D

Acq: 29 Apr 2025 14:19

Instrument :

MSVOA_L

ClientSampleId :

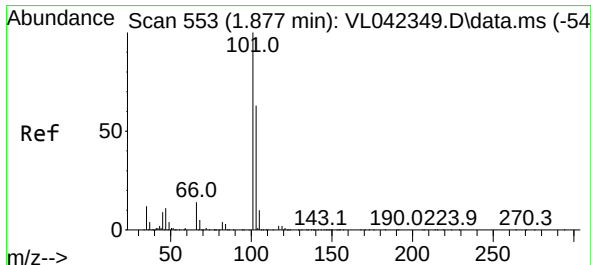
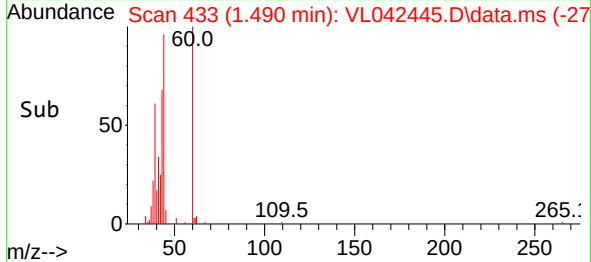
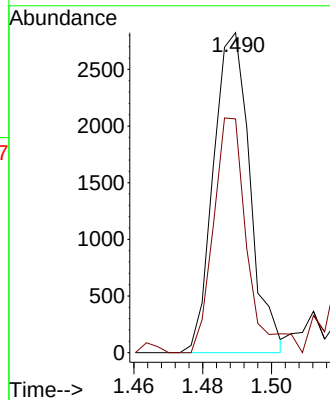
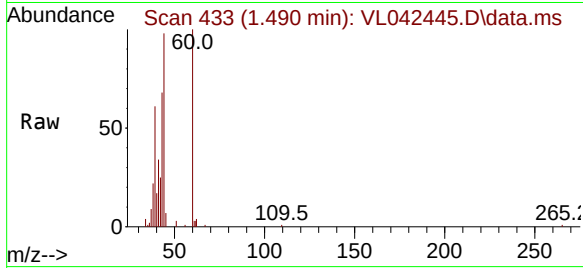
B-3

Tgt Ion: 41 Resp: 2081

Ion Ratio Lower Upper

41 100

42 67.3 56.2 84.4



#11

Trichlorofluoromethane

Concen: 0.226 ppbv

RT: 1.881 min Scan# 554

Delta R.T. 0.004 min

Lab File: VL042445.D

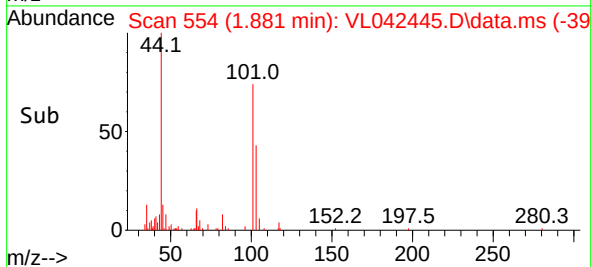
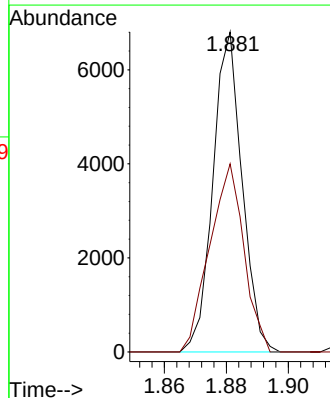
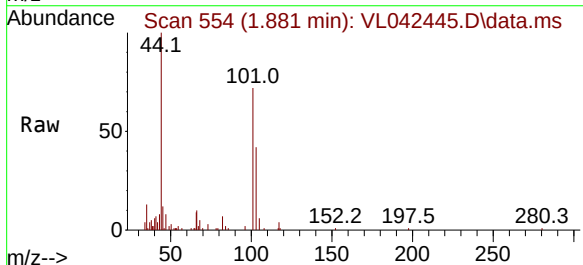
Acq: 29 Apr 2025 14:19

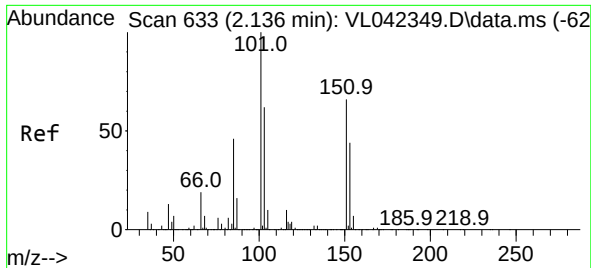
Tgt Ion: 101 Resp: 4449

Ion Ratio Lower Upper

101 100

103 58.8 50.1 75.1

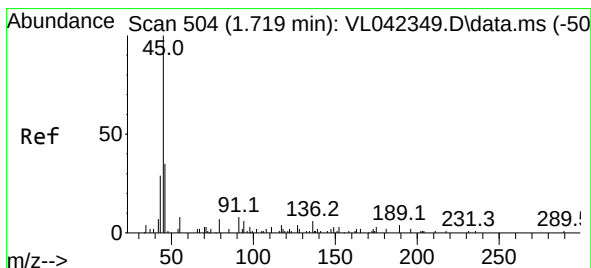
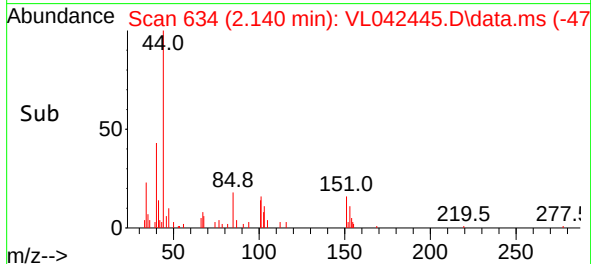
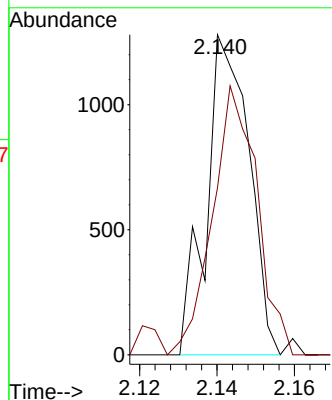
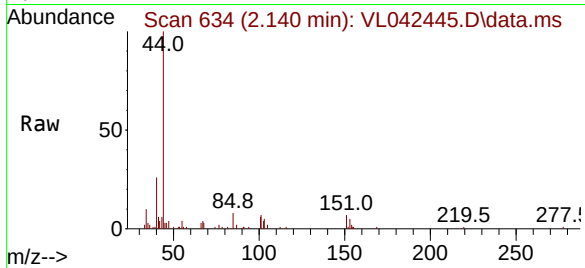




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.061 ppbv
RT: 2.140 min Scan# 61
Delta R.T. 0.004 min
Lab File: VL042445.D
Acq: 29 Apr 2025 14:19

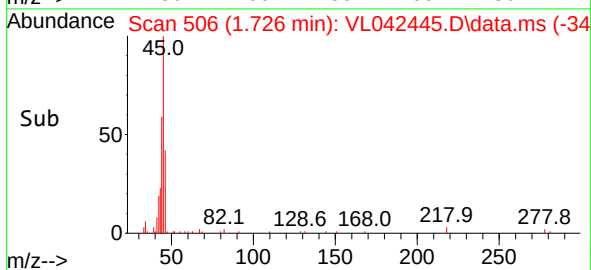
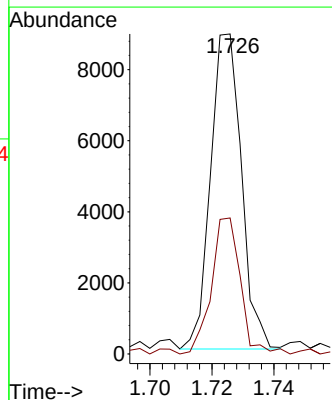
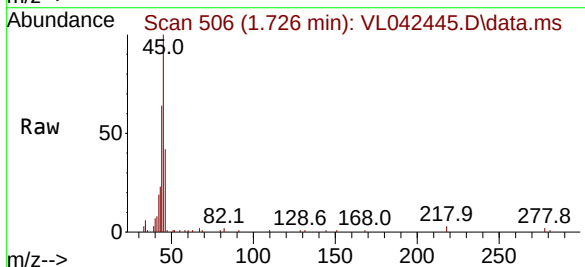
Instrument :
MSVOA_L
ClientSampleId :
B-3

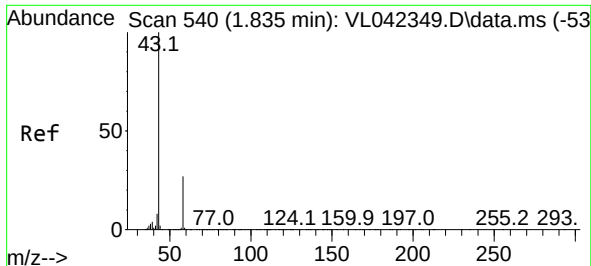
Tgt Ion:101 Resp: 978
Ion Ratio Lower Upper
101 100
151 91.8 57.0 85.6#



#13
Ethanol
Concen: 4.316 ppbv
RT: 1.726 min Scan# 506
Delta R.T. 0.007 min
Lab File: VL042445.D
Acq: 29 Apr 2025 14:19

Tgt Ion: 45 Resp: 6146
Ion Ratio Lower Upper
45 100
46 0.0 21.9 87.7#





#15

Acetone

Concen: 3.450 ppbv

RT: 1.839 min Scan# 541

Delta R.T. 0.004 min

Lab File: VL042445.D

Acq: 29 Apr 2025 14:19

Instrument :

MSVOA_L

ClientSampleId :

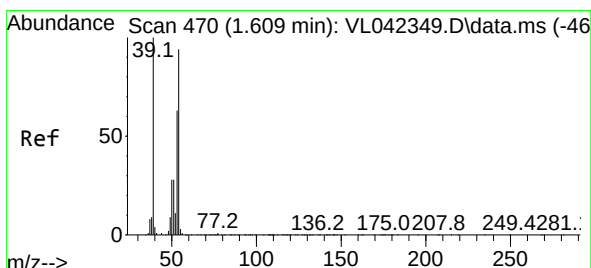
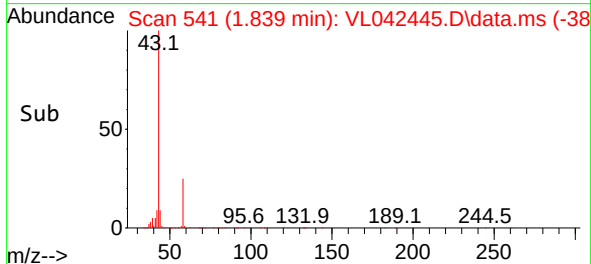
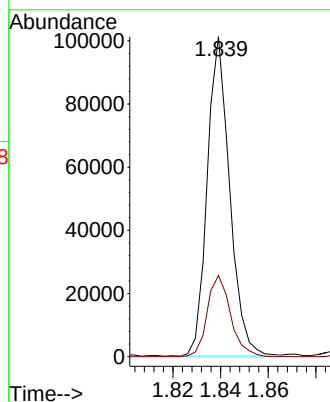
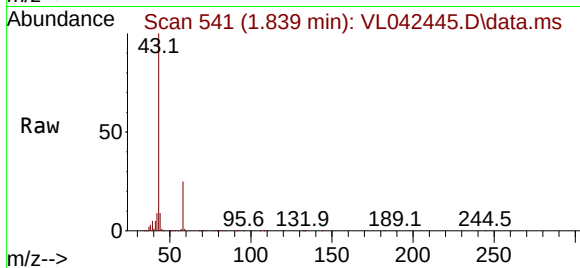
B-3

Tgt Ion: 43 Resp: 66029

Ion Ratio Lower Upper

43 100

58 26.4 22.4 33.6



#16

1,3-Butadiene

Concen: 0.256 ppbv

RT: 1.622 min Scan# 474

Delta R.T. 0.013 min

Lab File: VL042445.D

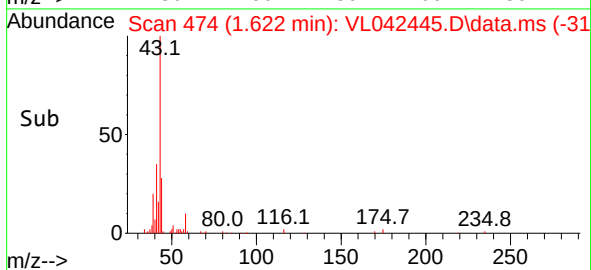
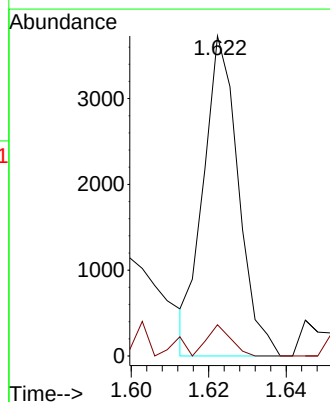
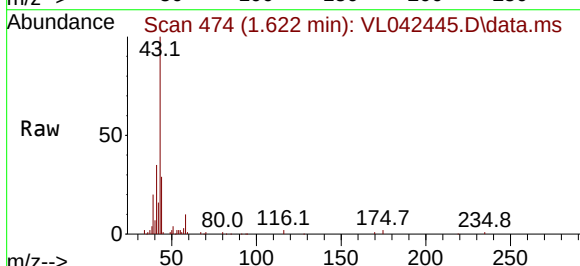
Acq: 29 Apr 2025 14:19

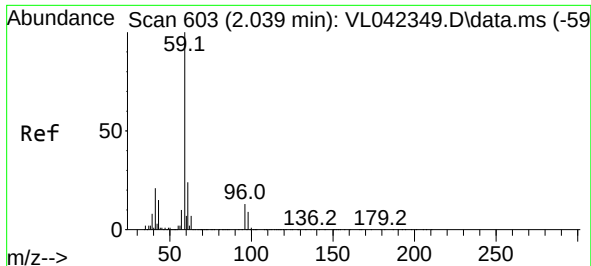
Tgt Ion: 39 Resp: 2347

Ion Ratio Lower Upper

39 100

54 6.6 64.9 97.3#





#17

tert-Butyl alcohol

Concen: 0.041 ppbv

RT: 2.049 min Scan# 603

Delta R.T. 0.010 min

Lab File: VL042445.D

Acq: 29 Apr 2025 14:19

Instrument :

MSVOA_L

ClientSampleId :

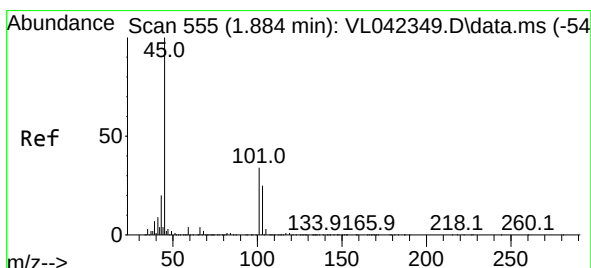
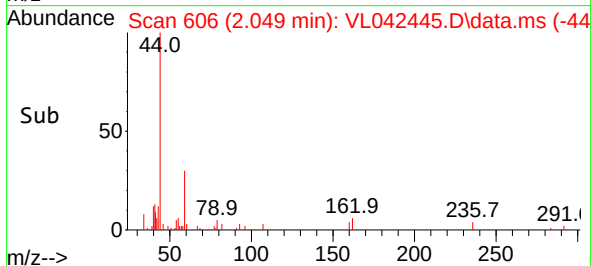
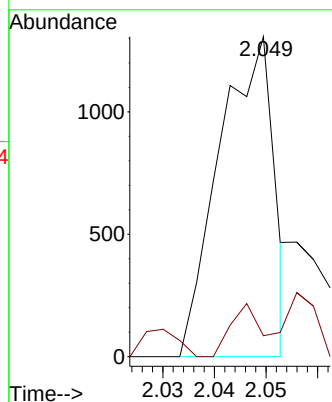
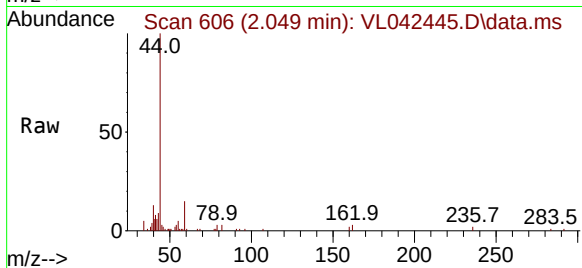
B-3

Tgt Ion: 59 Resp: 965

Ion Ratio Lower Upper

59 100

57 0.0 8.7 13.1#



#19

Isopropyl Alcohol

Concen: 0.578 ppbv

RT: 1.726 min Scan# 506

Delta R.T. -0.158 min

Lab File: VL042445.D

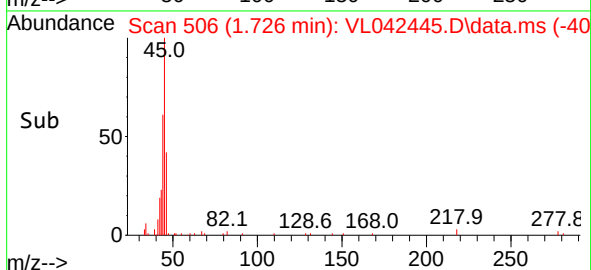
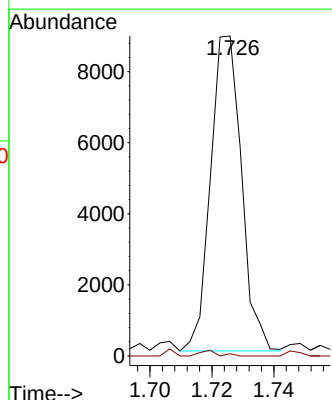
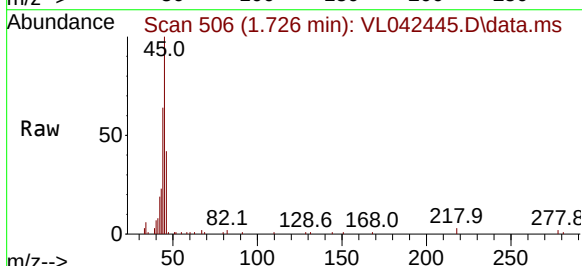
Acq: 29 Apr 2025 14:19

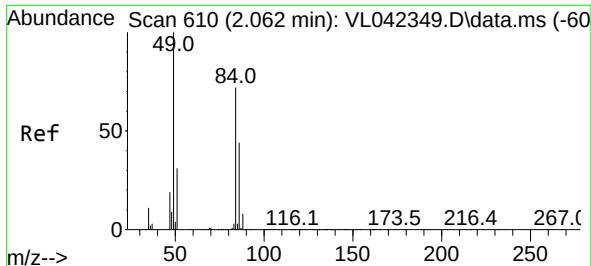
Tgt Ion: 45 Resp: 6146

Ion Ratio Lower Upper

45 100

58 19.3 34.5 51.7#

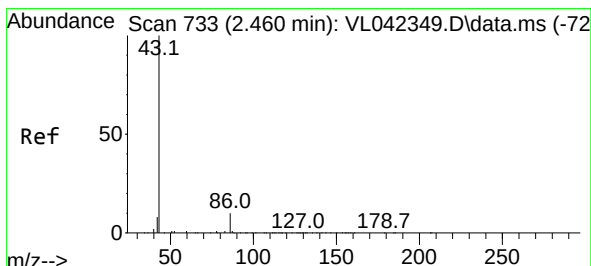
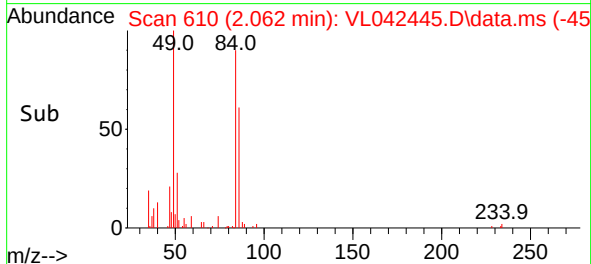
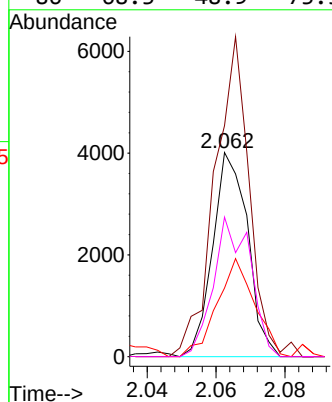
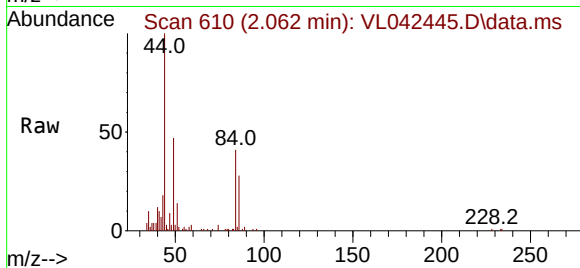




#20
Methylene Chloride
Concen: 0.377 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042445.D
Acq: 29 Apr 2025 14:19

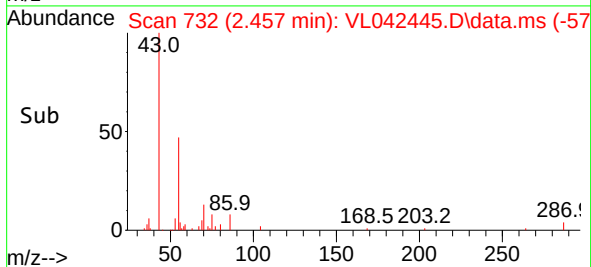
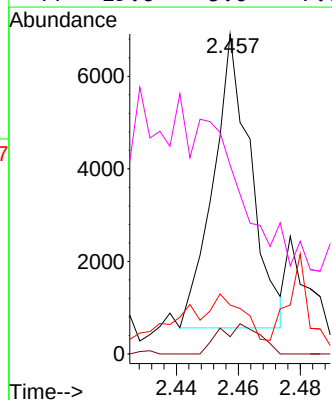
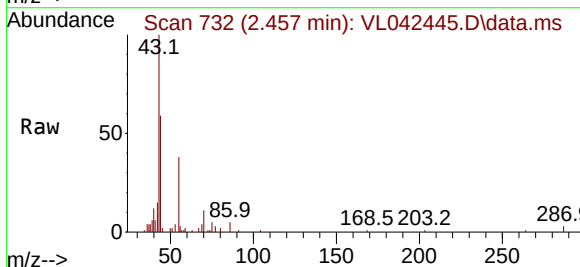
Instrument :
MSVOA_L
ClientSampleId :
B-3

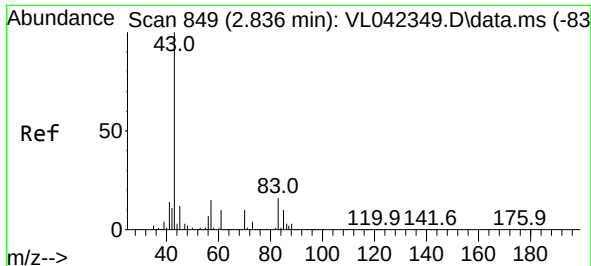
Tgt Ion:	84	Resp:	2823
Ion	Ratio	Lower	Upper
84	100		
49	110.9	111.6	167.4#
51	33.6	35.1	52.7#
86	68.3	48.9	73.3



#23
Vinyl Acetate
Concen: 0.686 ppbv
RT: 2.457 min Scan# 732
Delta R.T. -0.003 min
Lab File: VL042445.D
Acq: 29 Apr 2025 14:19

Tgt Ion:	43	Resp:	5316
Ion	Ratio	Lower	Upper
43	100		
86	5.9	6.5	9.7#
42	4.1	7.8	11.8#
44	19.6	5.0	7.6#

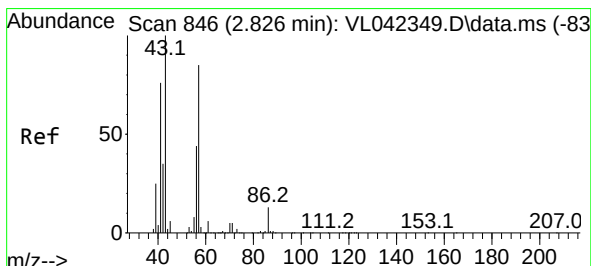
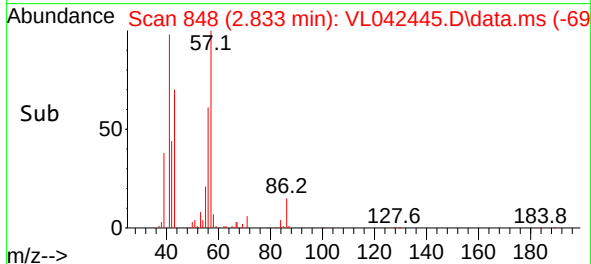
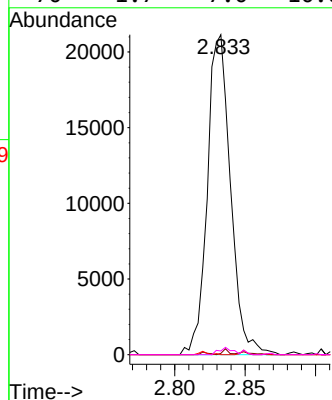
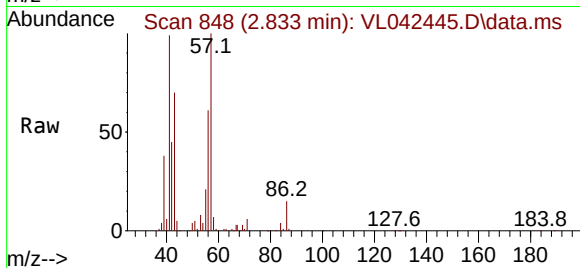




#25
Ethyl Acetate
Concen: 0.515 ppbv
RT: 2.833 min Scan# 848
Delta R.T. -0.003 min
Lab File: VL042445.D
Acq: 29 Apr 2025 14:19

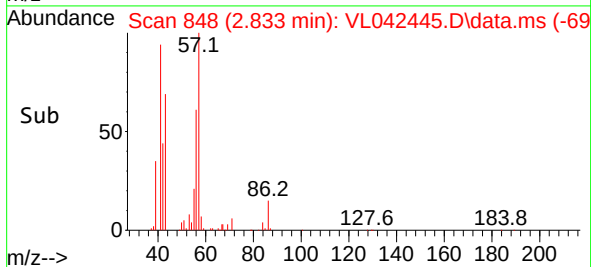
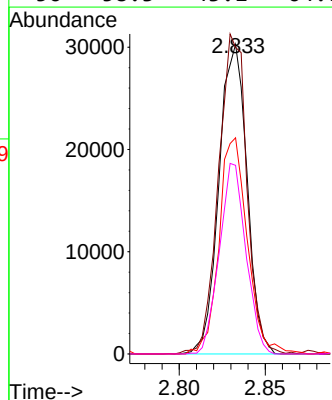
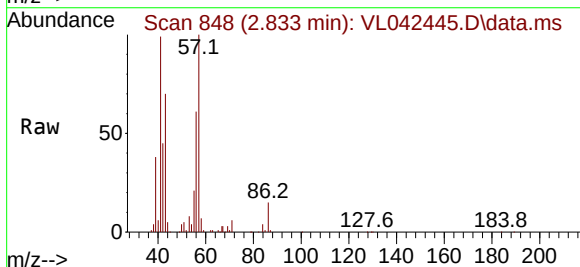
Instrument :
MSVOA_L
ClientSampleId :
B-3

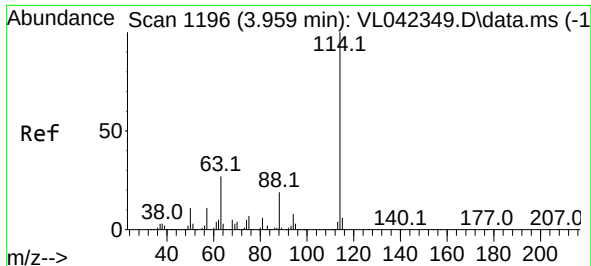
Tgt Ion: 43	Resp: 24301
Ion Ratio	Lower Upper
43 100	
45 1.2	8.3 12.5#
61 0.4	7.3 10.9#
70 1.7	7.0 10.6#



#26
Hexane
Concen: 1.794 ppbv
RT: 2.833 min Scan# 848
Delta R.T. 0.007 min
Lab File: VL042445.D
Acq: 29 Apr 2025 14:19

Tgt Ion: 57	Resp: 34265
Ion Ratio	Lower Upper
57 100	
41 105.5	77.9 116.9
43 70.9	208.4 312.6#
56 58.3	43.1 64.7

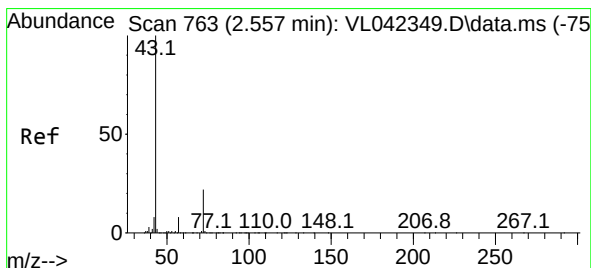
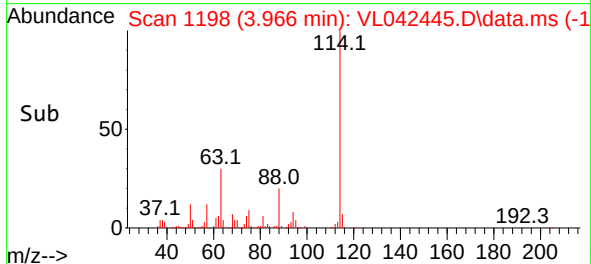
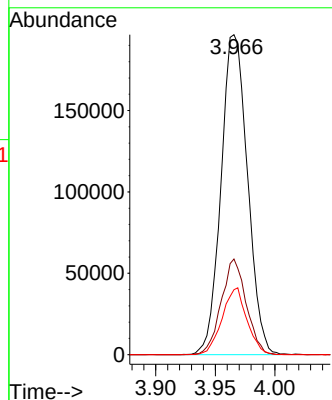
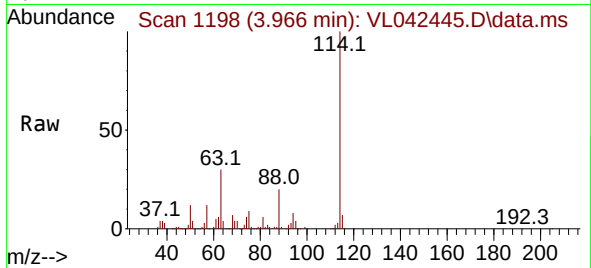




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.966 min Scan# 1196
 Delta R.T. 0.007 min
 Lab File: VL042445.D
 Acq: 29 Apr 2025 14:19

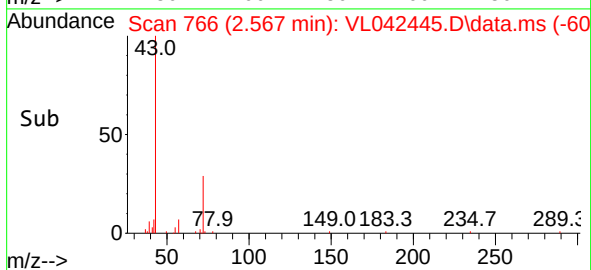
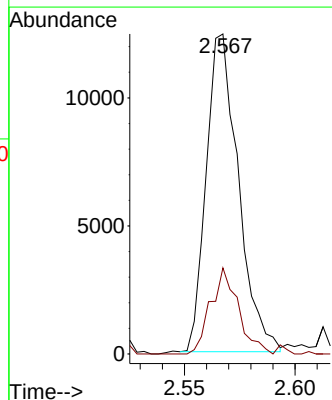
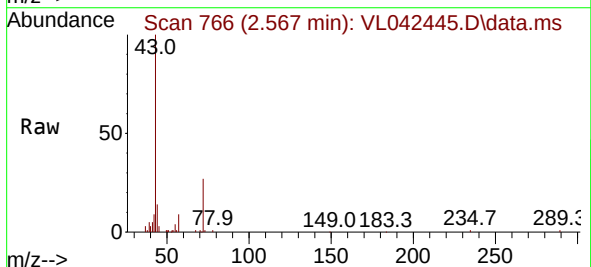
Instrument :
 MSVOA_L
 ClientSampleId :
 B-3

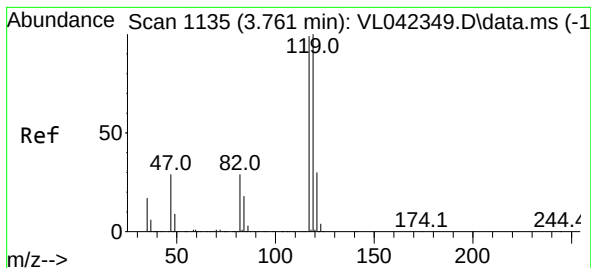
Tgt Ion:114 Resp: 304231
 Ion Ratio Lower Upper
 114 100
 63 28.3 21.8 32.6
 88 19.6 15.5 23.3



#34
 2-Butanone
 Concen: 0.522 ppbv
 RT: 2.567 min Scan# 766
 Delta R.T. 0.010 min
 Lab File: VL042445.D
 Acq: 29 Apr 2025 14:19

Tgt Ion: 43 Resp: 12554
 Ion Ratio Lower Upper
 43 100
 72 24.2 18.2 27.2





#35

Carbon Tetrachloride

Concen: 0.054 ppbv

RT: 3.775 min Scan# 1135

Delta R.T. 0.013 min

Lab File: VL042445.D

Acq: 29 Apr 2025 14:19

Instrument :

MSVOA_L

ClientSampleId :

B-3

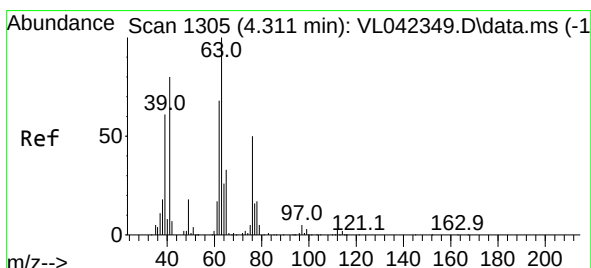
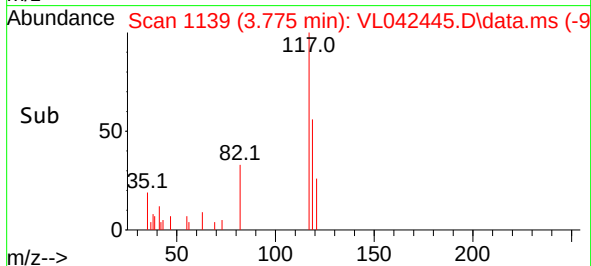
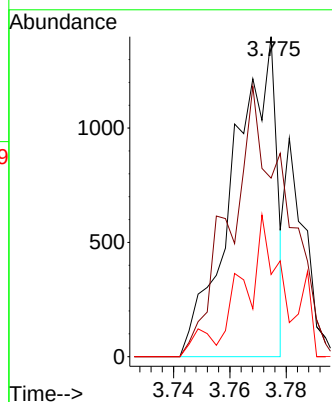
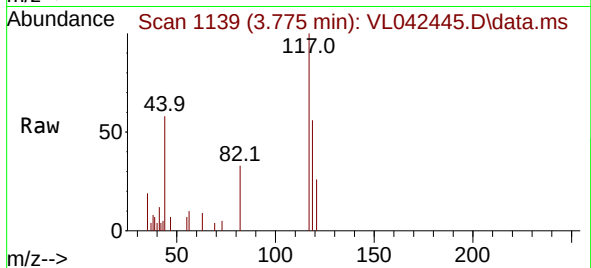
Tgt Ion:117 Resp: 1499

Ion Ratio Lower Upper

117 100

119 55.8 80.5 120.7#

121 25.7 24.2 36.2



#39

1,2-Dichloropropane

Concen: 7.018 ppbv

RT: 3.966 min Scan# 1198

Delta R.T. -0.346 min

Lab File: VL042445.D

Acq: 29 Apr 2025 14:19

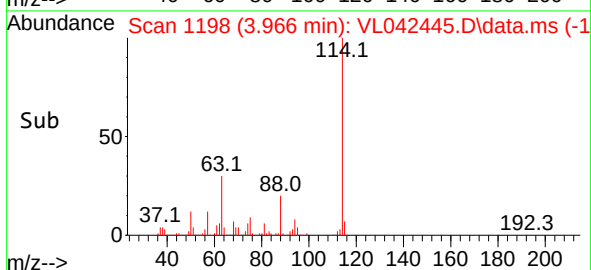
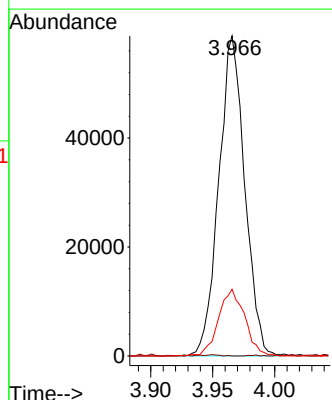
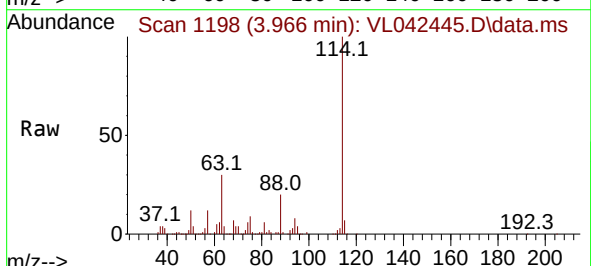
Tgt Ion: 63 Resp: 85815

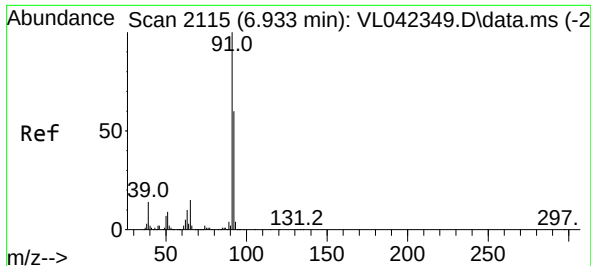
Ion Ratio Lower Upper

63 100

41 0.0 64.2 96.2#

62 20.9 54.3 81.5#

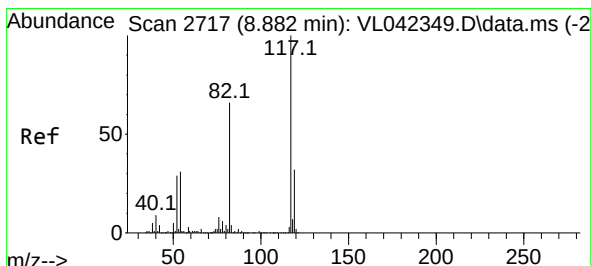
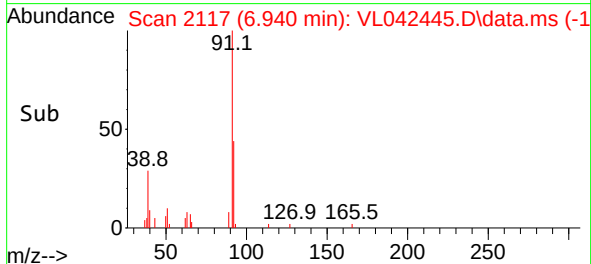
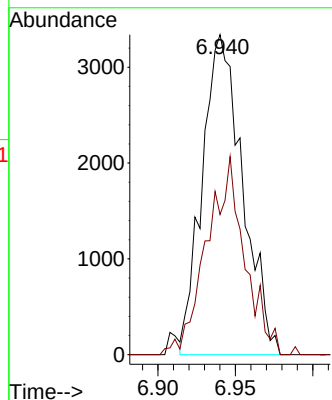
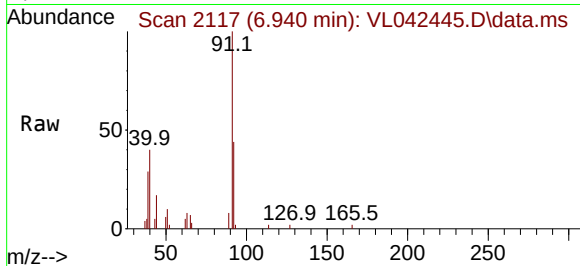




#53
Toluene
Concen: 0.154 ppbv
RT: 6.940 min Scan# 2115
Delta R.T. 0.007 min
Lab File: VL042445.D
Acq: 29 Apr 2025 14:19

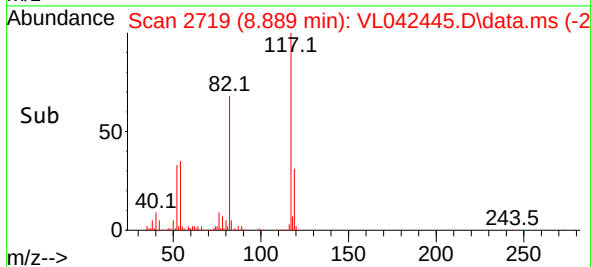
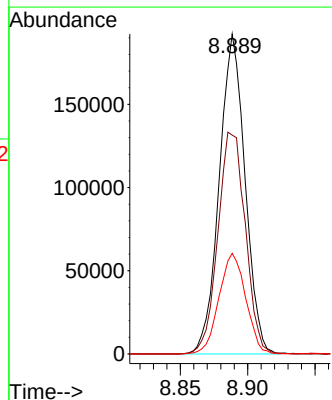
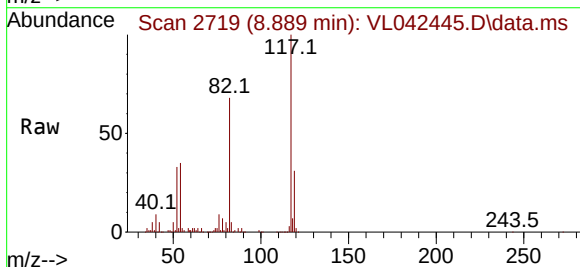
Instrument :
MSVOA_L
ClientSampleId :
B-3

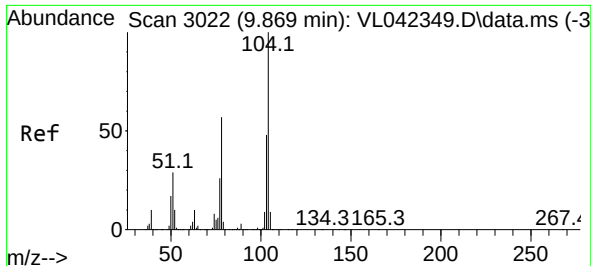
Tgt Ion: 91 Resp: 6054
Ion Ratio Lower Upper
91 100
92 58.1 48.2 72.4



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.889 min Scan# 2719
Delta R.T. 0.007 min
Lab File: VL042445.D
Acq: 29 Apr 2025 14:19

Tgt Ion: 117 Resp: 256038
Ion Ratio Lower Upper
117 100
82 73.8 57.8 86.6
119 32.7 25.2 37.8

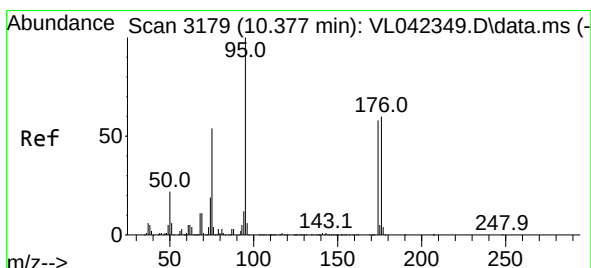
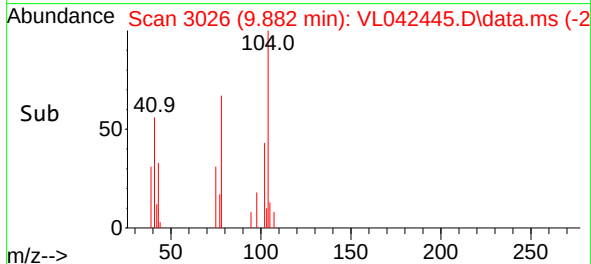
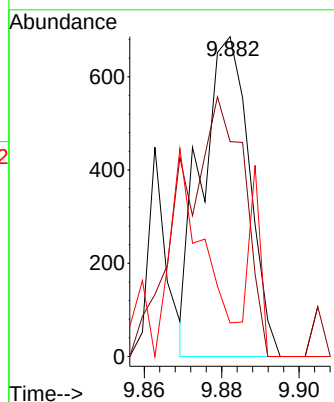
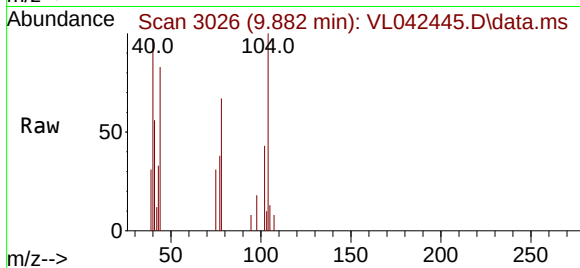




#61
Styrene
Concen: 0.030 ppbv
RT: 9.882 min Scan# 3026
Delta R.T. 0.013 min
Lab File: VL042445.D
Acq: 29 Apr 2025 14:19

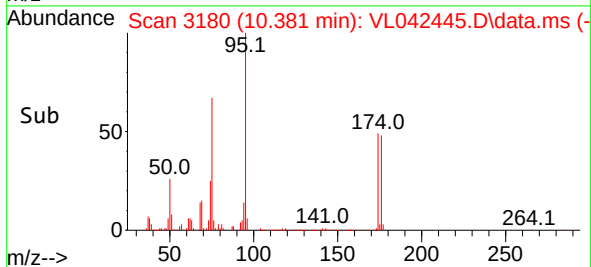
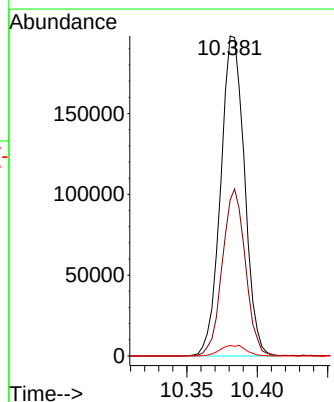
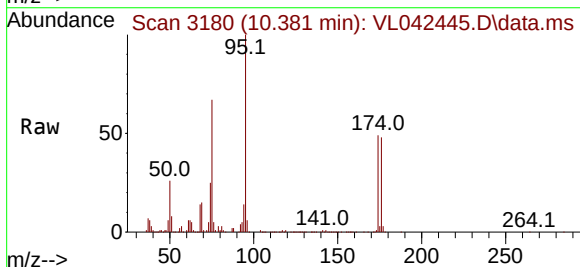
Instrument :
MSVOA_L
ClientSampleId :
B-3

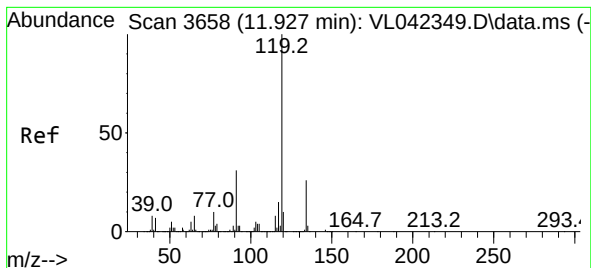
Tgt Ion:104 Resp: 590
Ion Ratio Lower Upper
104 100
78 106.3 44.6 66.8#
103 0.0 37.4 56.0#



#68
1-Bromo-4-Fluorobenzene
Concen: 11.074 ppbv
RT: 10.381 min Scan# 3180
Delta R.T. 0.004 min
Lab File: VL042445.D
Acq: 29 Apr 2025 14:19

Tgt Ion: 95 Resp: 232994
Ion Ratio Lower Upper
95 100
174 50.6 48.5 72.7
175 3.6 3.7 5.5#





#69

p-Isopropyltoluene

Concen: 0.061 ppbv

RT: 11.931 min Scan# 3

Delta R.T. 0.004 min

Lab File: VL042445.D

Acq: 29 Apr 2025 14:19

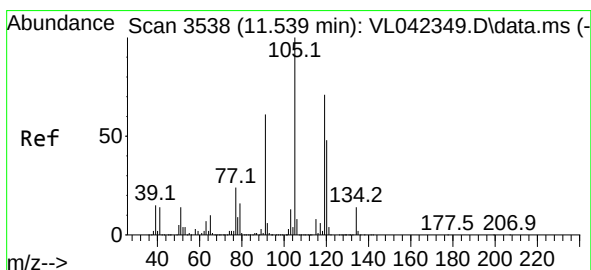
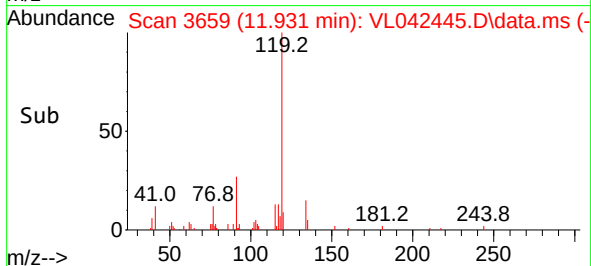
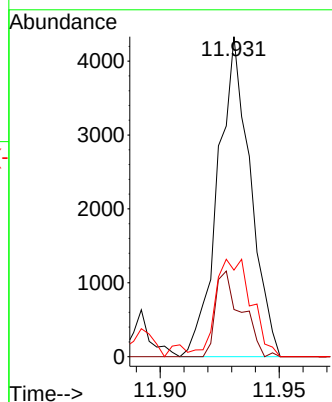
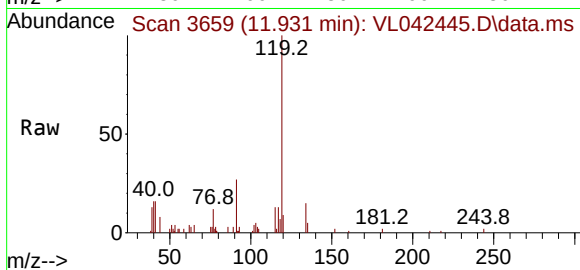
Instrument :

MSVOA_L

ClientSampleId :

B-3

Tgt Ion:	119	Resp:	4106
Ion	Ratio	Lower	Upper
119	100		
134	21.3	20.0	30.0
91	35.3	24.4	36.6



#74

1,2,4-Trimethylbenzene

Concen: 0.052 ppbv

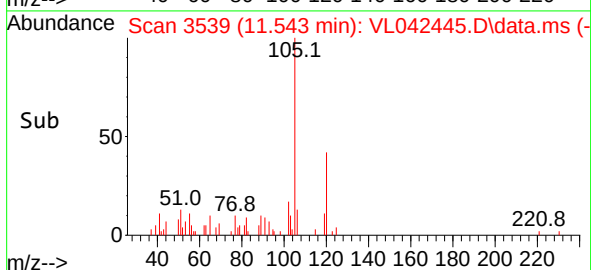
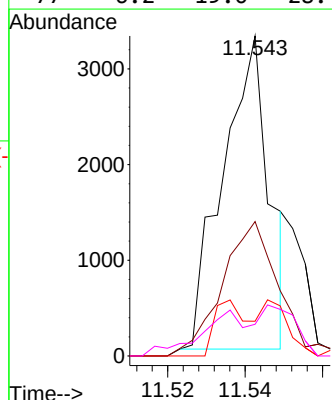
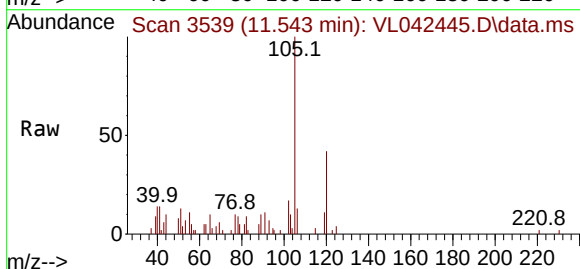
RT: 11.543 min Scan# 3539

Delta R.T. 0.004 min

Lab File: VL042445.D

Acq: 29 Apr 2025 14:19

Tgt Ion:	105	Resp:	2714
Ion	Ratio	Lower	Upper
105	100		
120	40.5	38.1	57.1
91	11.1	48.8	73.2#
77	6.2	19.0	28.4#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042925\
 Data File : VL042456.D
 Acq On : 29 Apr 2025 21:58
 Operator : SY/MD
 Sample : Q1908-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 B-2

Quant Time: May 01 07:05:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 02:14:00 2025
 Response via : Initial Calibration

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

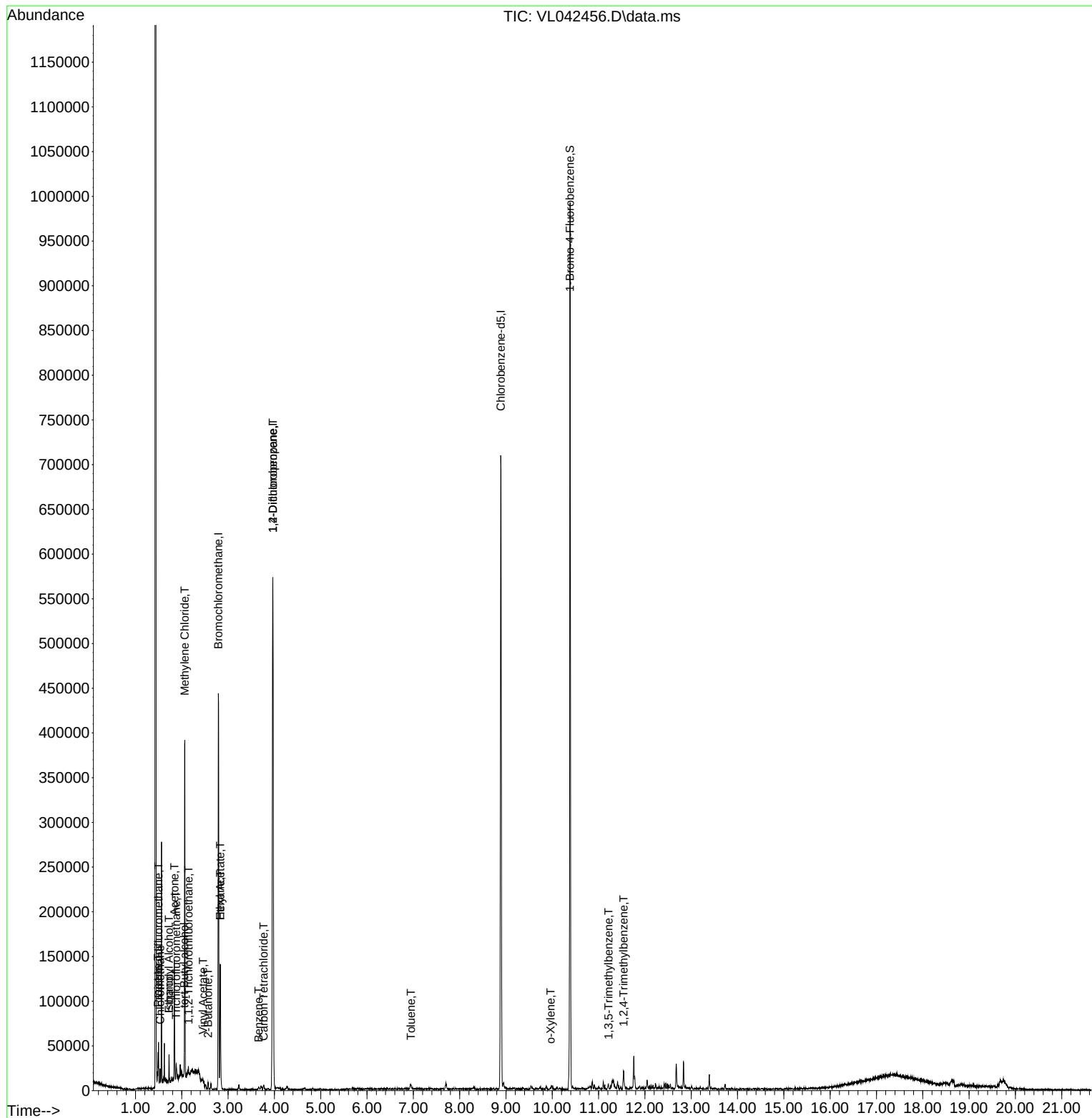
Internal Standards						
1) Bromochloromethane	2.790	49	111841	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	295318	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	246635	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	229841	11.341	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 113.400%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	9601	0.486	ppbv	94
4) Chloromethane	1.531	50	3721	0.476	ppbv #	81
9) Propene	1.489	41	2343	0.273	ppbv	93
11) Trichlorofluoromethane	1.877	101	4603	0.245	ppbv	94
12) 1,1,2-Trichlorotrifluo...	2.146	101	946	0.062	ppbv	98
13) Ethanol	1.722	45	10654	7.822	ppbv #	24
15) Acetone	1.839	43	57407	3.136	ppbv	97
17) tert-Butyl alcohol	2.052	59	959	0.042	ppbv #	71
19) Isopropyl Alcohol	1.722	45	10654	1.048	ppbv #	52
20) Methylene Chloride	2.065	84	57764	8.056	ppbv	93
23) Vinyl Acetate	2.457	43	1592	0.215	ppbv #	1
25) Ethyl Acetate	2.829	43	21953	0.486	ppbv #	82
26) Hexane	2.829	57	28892	1.582	ppbv #	31
34) 2-Butanone	2.567	43	4598	0.197	ppbv	98
35) Carbon Tetrachloride	3.768	117	1519	0.057	ppbv #	85
36) Benzene	3.658	78	1247	0.039	ppbv #	83
39) 1,2-Dichloropropane	3.965	63	87069	7.335	ppbv #	21
53) Toluene	6.946	91	2460	0.064	ppbv #	72
60) o-Xylene	9.966	91	1209	0.030	ppbv	88
73) 1,3,5-Trimethylbenzene	11.212	105	1755	0.041	ppbv #	69
74) 1,2,4-Trimethylbenzene	11.539	105	5427	0.109	ppbv #	59

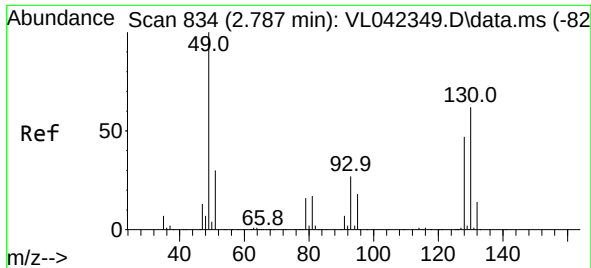
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042925\
Data File : VL042456.D
Acq On : 29 Apr 2025 21:58
Operator : SY/MD
Sample : Q1908-02
Misc : 400mL/MSVOA_L
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
B-2

Quant Time: May 01 07:05:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 2.790 min Scan# 81

Delta R.T. 0.003 min

Lab File: VL042456.D

Acq: 29 Apr 2025 21:58

Instrument :

MSVOA_L

ClientSampleId :

B-2

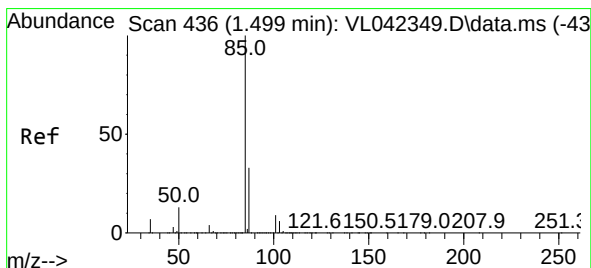
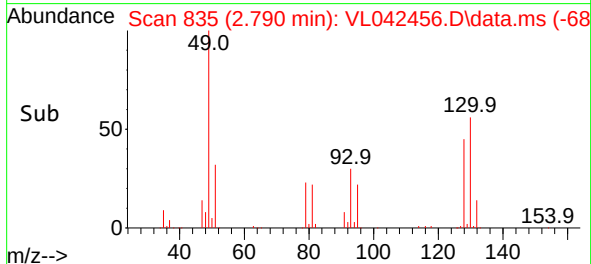
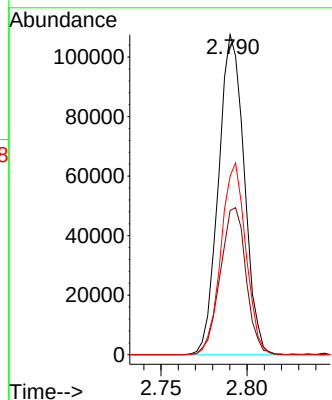
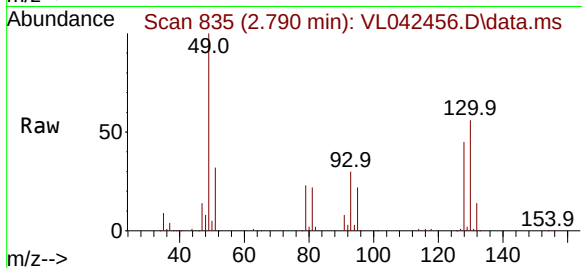
Tgt Ion: 49 Resp: 111841

Ion Ratio Lower Upper

49 100

128 46.1 22.8 68.4

130 58.0 29.3 88.0



#2

Dichlorodifluoromethane

Concen: 0.486 ppbv

RT: 1.499 min Scan# 436

Delta R.T. -0.000 min

Lab File: VL042456.D

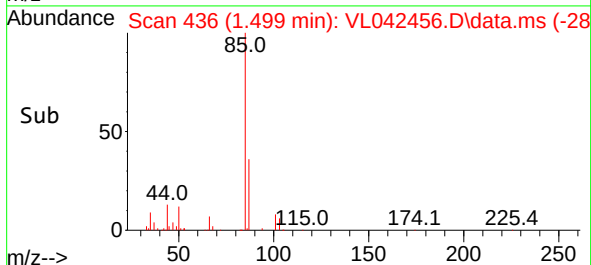
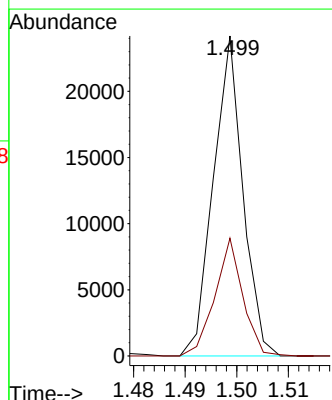
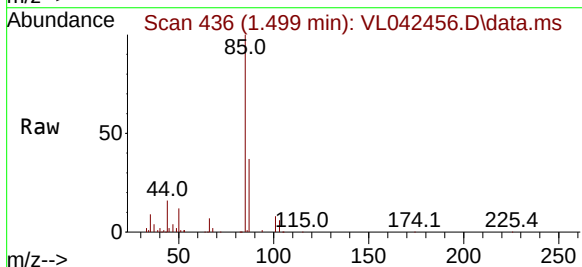
Acq: 29 Apr 2025 21:58

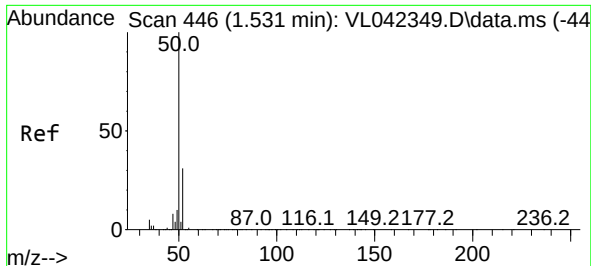
Tgt Ion: 85 Resp: 9601

Ion Ratio Lower Upper

85 100

87 36.8 26.6 39.8

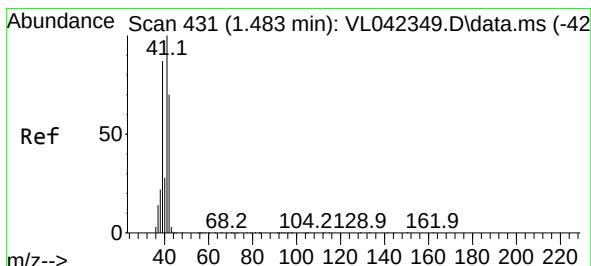
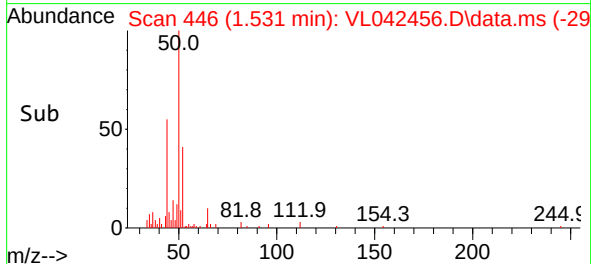
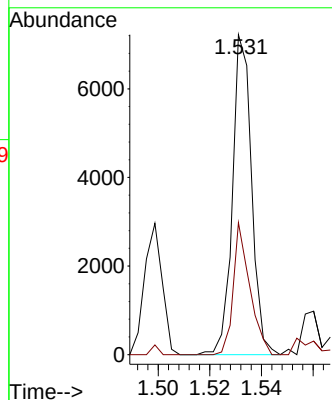
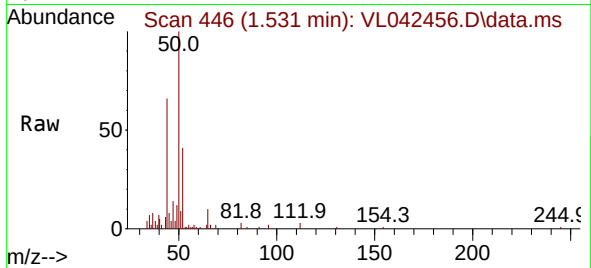




#4
Chloromethane
Concen: 0.476 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042456.D
Acq: 29 Apr 2025 21:58

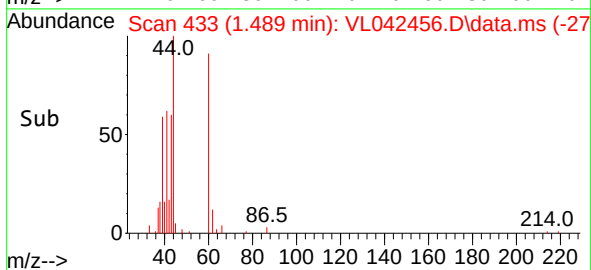
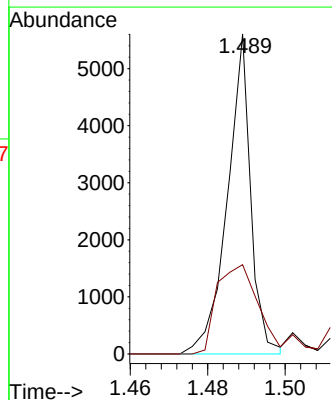
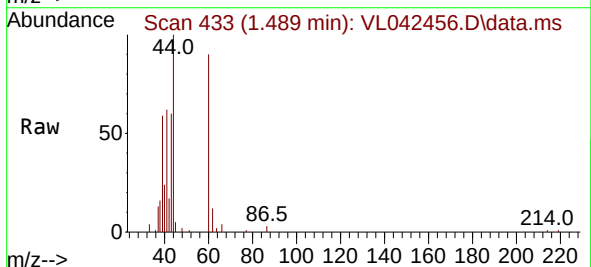
Instrument :
MSVOA_L
ClientSampleId :
B-2

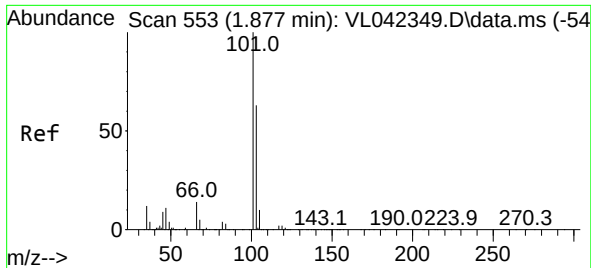
Tgt Ion: 50 Resp: 3721
Ion Ratio Lower Upper
50 100
52 41.2 24.7 37.1#



#9
Propene
Concen: 0.273 ppbv
RT: 1.489 min Scan# 433
Delta R.T. 0.006 min
Lab File: VL042456.D
Acq: 29 Apr 2025 21:58

Tgt Ion: 41 Resp: 2343
Ion Ratio Lower Upper
41 100
42 64.7 56.2 84.4

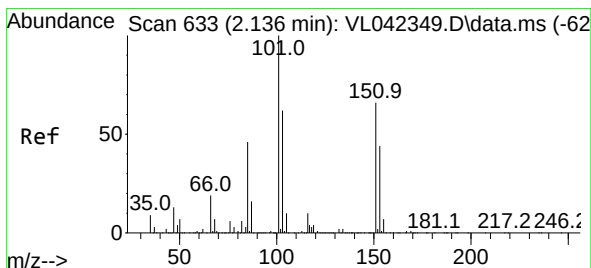
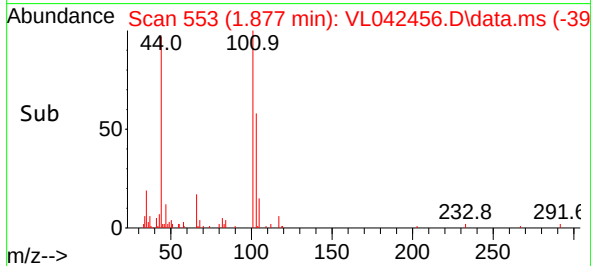
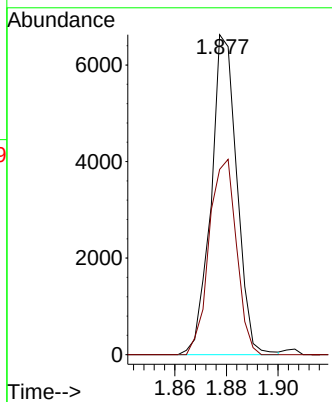
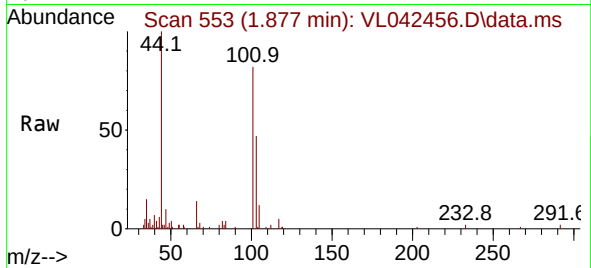




#11
 Trichlorofluoromethane
 Concen: 0.245 ppbv
 RT: 1.877 min Scan# 511
 Delta R.T. -0.000 min
 Lab File: VL042456.D
 Acq: 29 Apr 2025 21:58

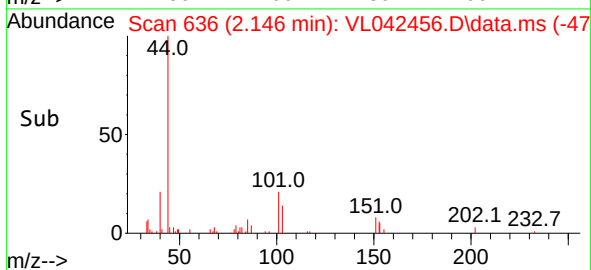
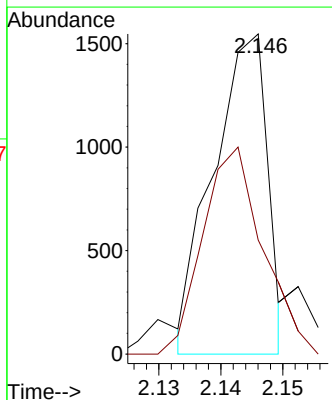
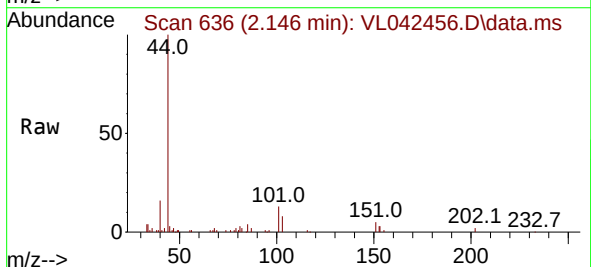
Instrument :
 MSVOA_L
 ClientSampleId :
 B-2

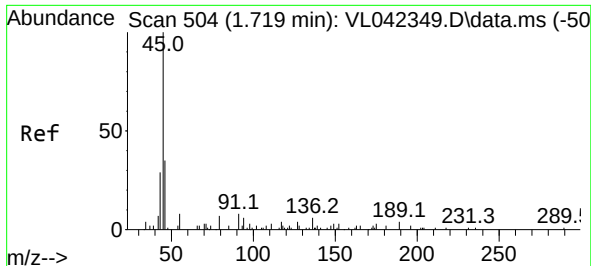
Tgt Ion:101 Resp: 4603
 Ion Ratio Lower Upper
 101 100
 103 57.9 50.1 75.1



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.062 ppbv
 RT: 2.146 min Scan# 636
 Delta R.T. 0.010 min
 Lab File: VL042456.D
 Acq: 29 Apr 2025 21:58

Tgt Ion:101 Resp: 946
 Ion Ratio Lower Upper
 101 100
 151 73.0 57.0 85.6

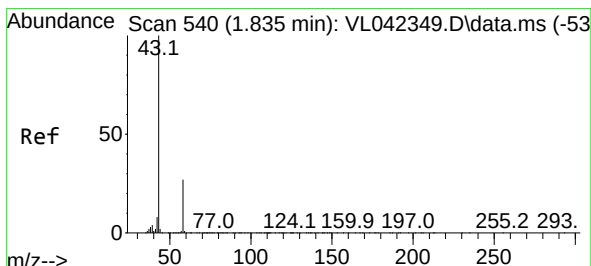
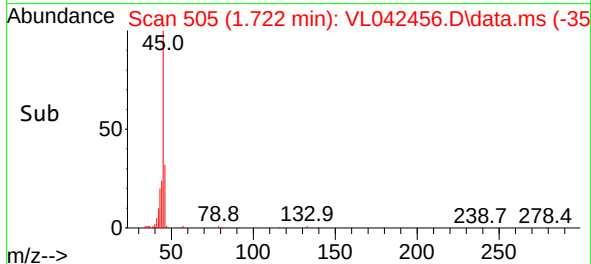
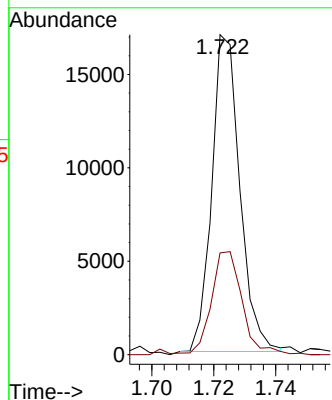
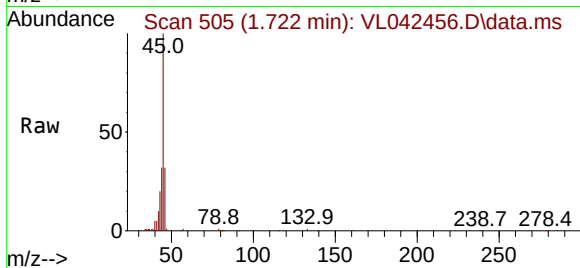




#13
Ethanol
Concen: 7.822 ppbv
RT: 1.722 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL042456.D
Acq: 29 Apr 2025 21:58

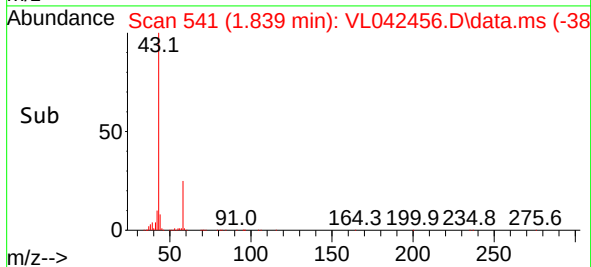
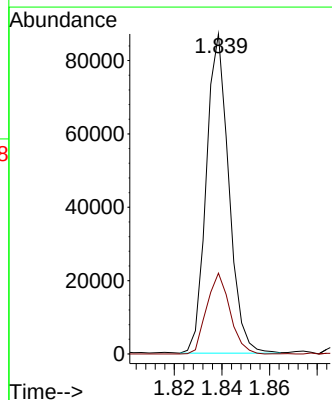
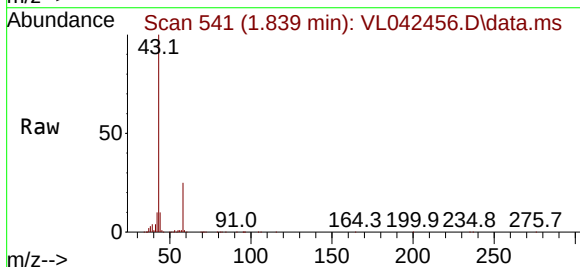
Instrument :
MSVOA_L
ClientSampleId :
B-2

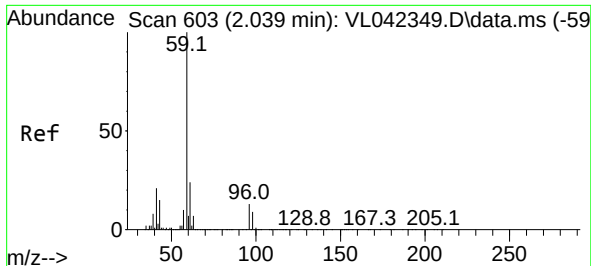
Tgt Ion: 45 Resp: 10654
Ion Ratio Lower Upper
45 100
46 0.0 21.9 87.7#



#15
Acetone
Concen: 3.136 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL042456.D
Acq: 29 Apr 2025 21:58

Tgt Ion: 43 Resp: 57407
Ion Ratio Lower Upper
43 100
58 26.2 22.4 33.6





#17

tert-Butyl alcohol

Concen: 0.042 ppbv

RT: 2.052 min Scan# 603

Delta R.T. 0.013 min

Lab File: VL042456.D

Acq: 29 Apr 2025 21:58

Instrument :

MSVOA_L

ClientSampleId :

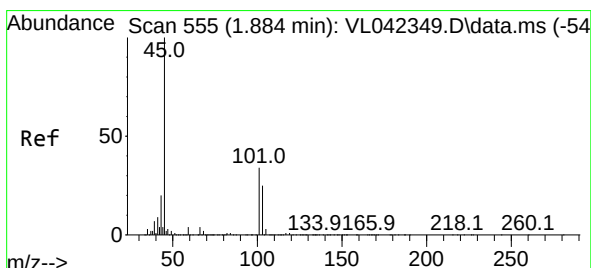
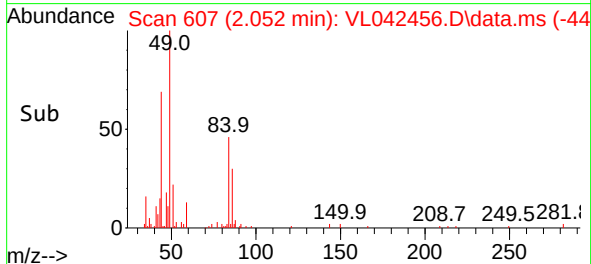
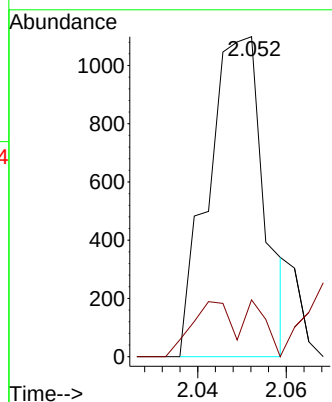
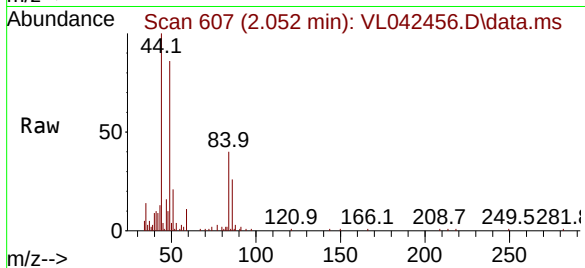
B-2

Tgt Ion: 59 Resp: 959

Ion Ratio Lower Upper

59 100

57 0.0 8.7 13.1#



#19

Isopropyl Alcohol

Concen: 1.048 ppbv

RT: 1.722 min Scan# 505

Delta R.T. -0.162 min

Lab File: VL042456.D

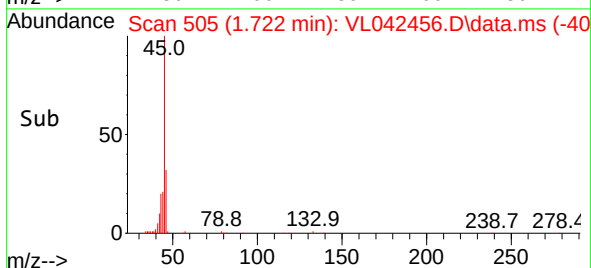
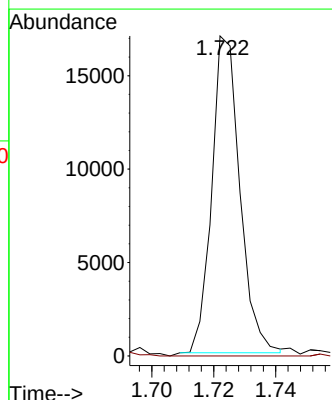
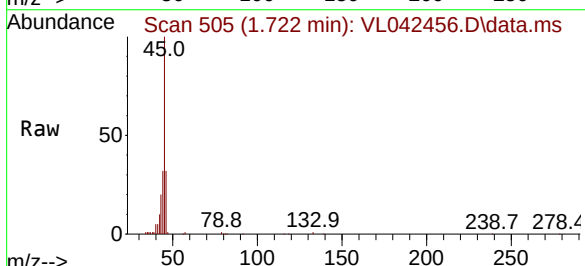
Acq: 29 Apr 2025 21:58

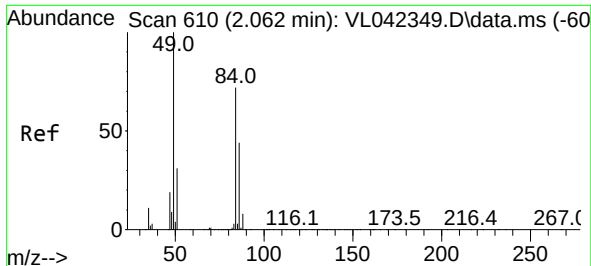
Tgt Ion: 45 Resp: 10654

Ion Ratio Lower Upper

45 100

58 12.4 34.5 51.7#

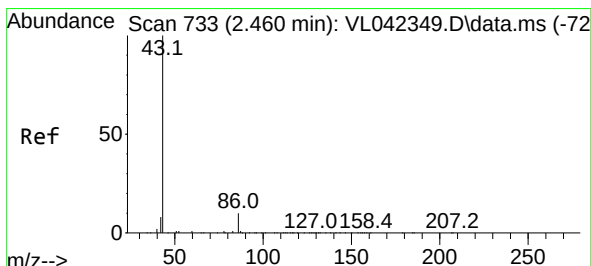
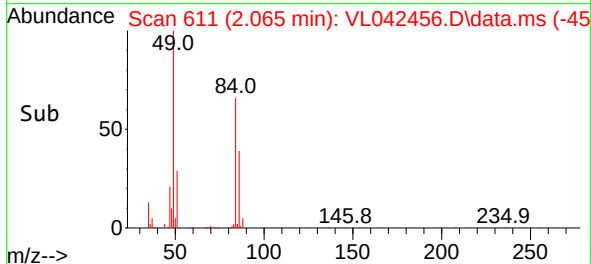
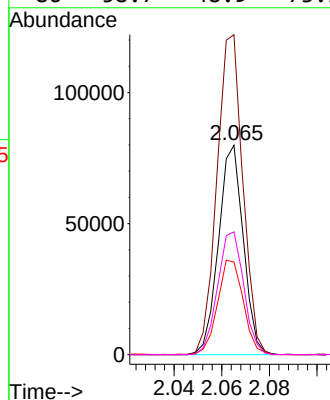
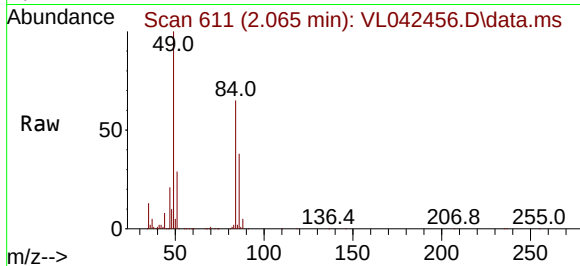




#20
Methylene Chloride
Concen: 8.056 ppbv
RT: 2.065 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042456.D
Acq: 29 Apr 2025 21:58

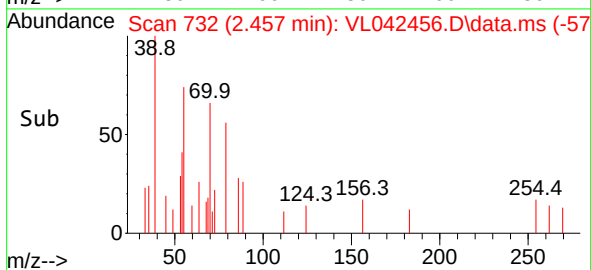
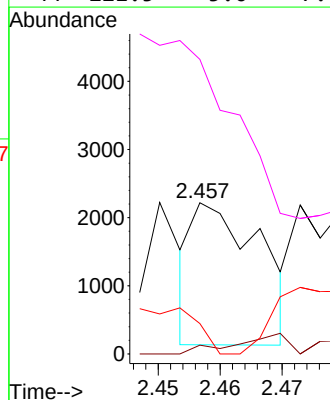
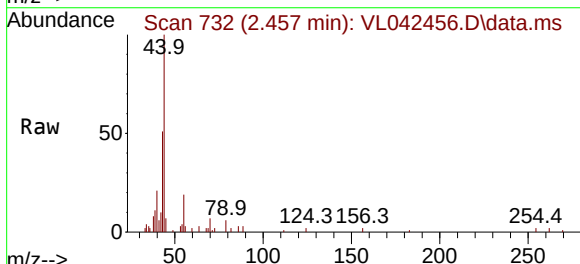
Instrument :
MSVOA_1
ClientSampleId :
B-2

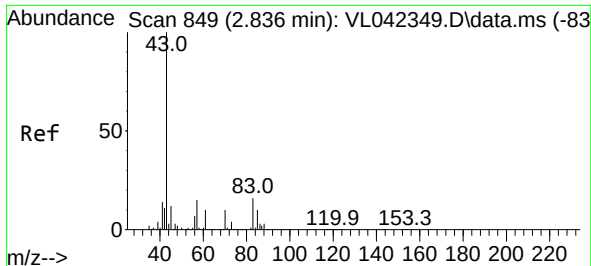
Tgt Ion:	84	Resp:	57764
Ion	Ratio	Lower	Upper
84	100		
49	152.8	111.6	167.4
51	44.1	35.1	52.7
86	58.7	48.9	73.3



#23
Vinyl Acetate
Concen: 0.215 ppbv
RT: 2.457 min Scan# 732
Delta R.T. -0.003 min
Lab File: VL042456.D
Acq: 29 Apr 2025 21:58

Tgt Ion:	43	Resp:	1592
Ion	Ratio	Lower	Upper
43	100		
86	12.6	6.5	9.7#
42	0.0	7.8	11.8#
44	221.5	5.0	7.6#

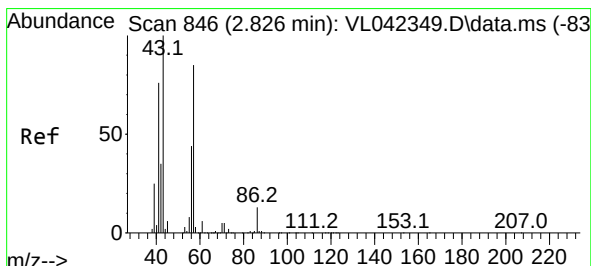
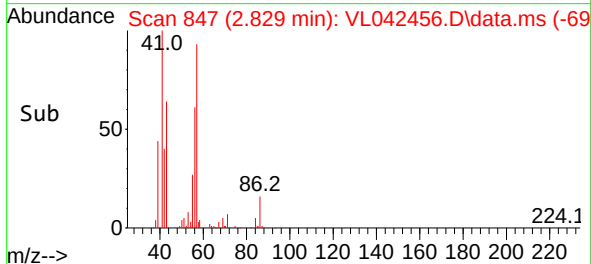
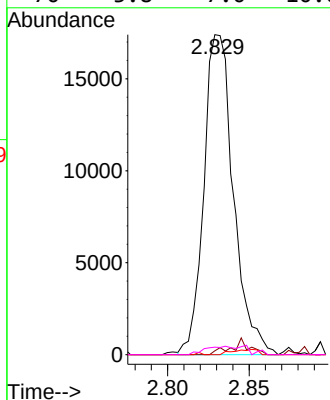
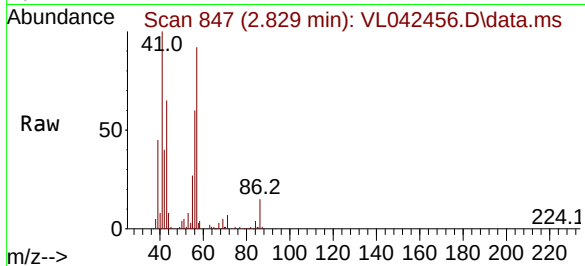




#25
Ethyl Acetate
Concen: 0.486 ppbv
RT: 2.829 min Scan# 847
Delta R.T. -0.007 min
Lab File: VL042456.D
Acq: 29 Apr 2025 21:58

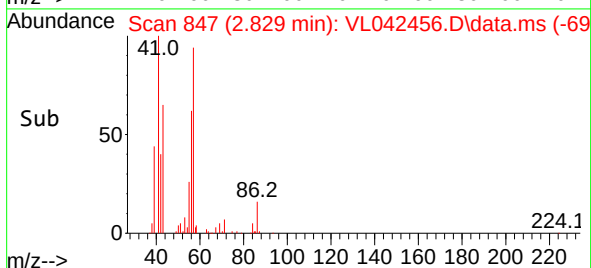
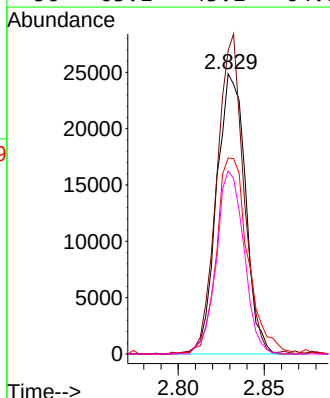
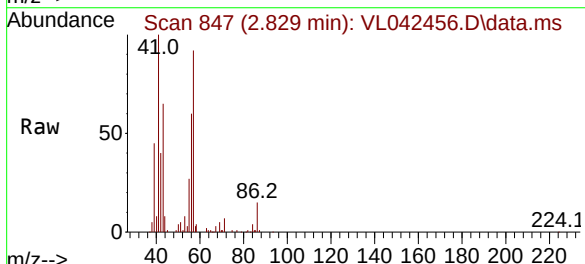
Instrument :
MSVOA_L
ClientSampleId :
B-2

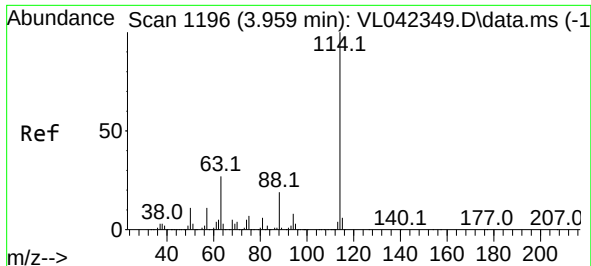
Tgt Ion: 43	Resp: 21953
Ion Ratio	Lower Upper
43 100	
45 3.1	8.3 12.5#
61 1.4	7.3 10.9#
70 3.8	7.0 10.6#



#26
Hexane
Concen: 1.582 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.003 min
Lab File: VL042456.D
Acq: 29 Apr 2025 21:58

Tgt Ion: 57	Resp: 28892		
Ion	Ratio	Lower	Upper
57	100		
41	107.2	77.9	116.9
43	77.9	208.4	312.6#
56	63.1	43.1	64.7





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.965 min Scan# 1196

Delta R.T. 0.006 min

Lab File: VL042456.D

Acq: 29 Apr 2025 21:58

Instrument :

MSVOA_L

ClientSampleId :

B-2

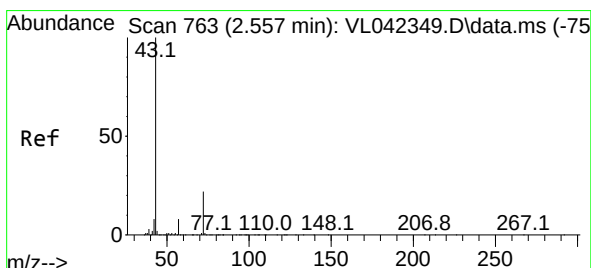
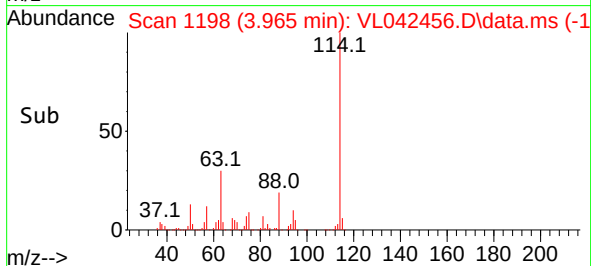
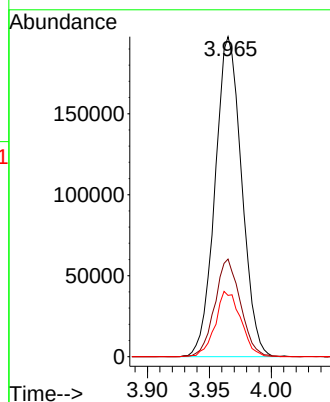
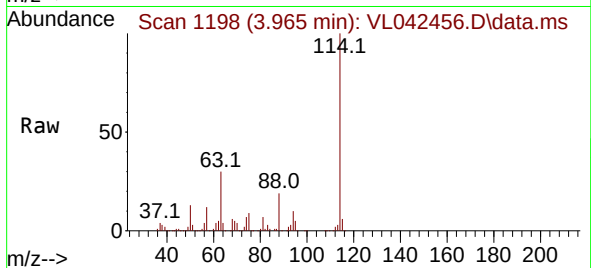
Tgt Ion:114 Resp: 295318

Ion Ratio Lower Upper

114 100

63 29.6 21.8 32.6

88 19.6 15.5 23.3



#34

2-Butanone

Concen: 0.197 ppbv

RT: 2.567 min Scan# 766

Delta R.T. 0.010 min

Lab File: VL042456.D

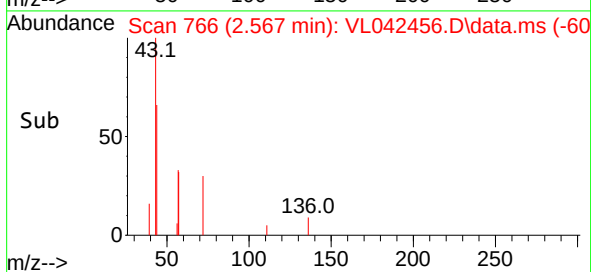
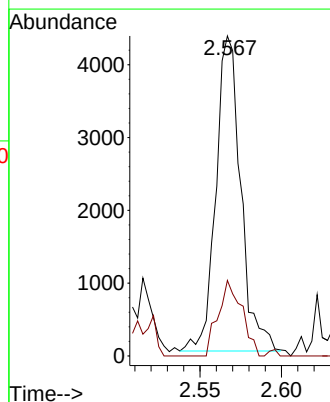
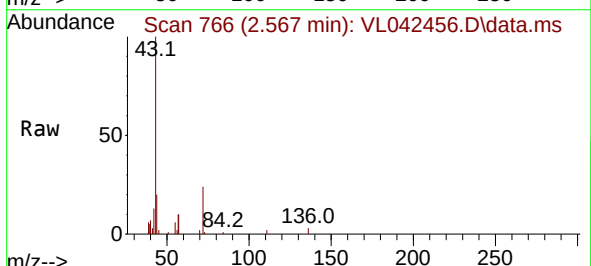
Acq: 29 Apr 2025 21:58

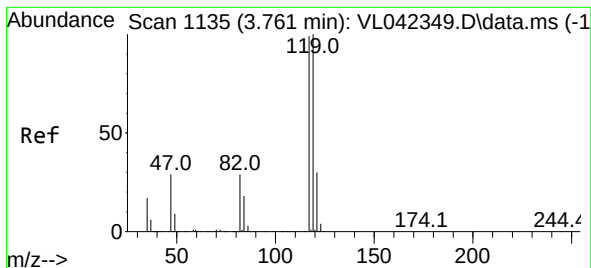
Tgt Ion: 43 Resp: 4598

Ion Ratio Lower Upper

43 100

72 23.4 18.2 27.2





#35

Carbon Tetrachloride

Concen: 0.057 ppbv

RT: 3.768 min Scan# 1135

Delta R.T. 0.006 min

Lab File: VL042456.D

Acq: 29 Apr 2025 21:58

Instrument :

MSVOA_L

ClientSampleId :

B-2

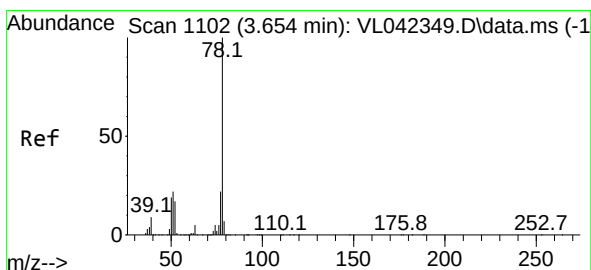
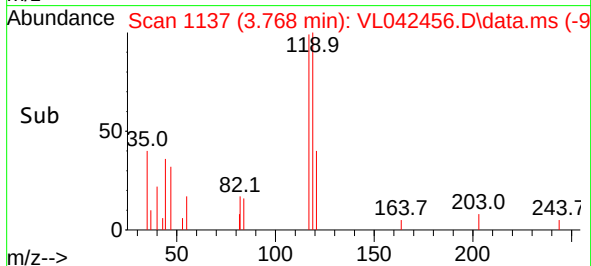
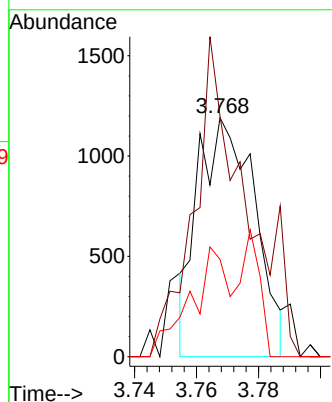
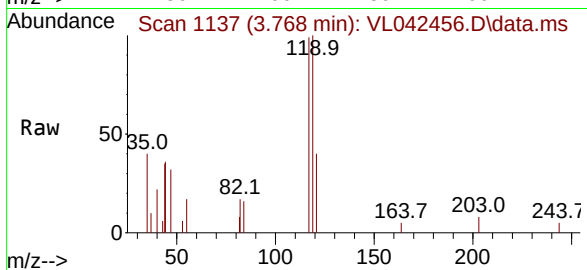
Tgt Ion:117 Resp: 1519

Ion Ratio Lower Upper

117 100

119 91.8 80.5 120.7

121 50.6 24.2 36.2#



#36

Benzene

Concen: 0.039 ppbv

RT: 3.658 min Scan# 1103

Delta R.T. 0.003 min

Lab File: VL042456.D

Acq: 29 Apr 2025 21:58

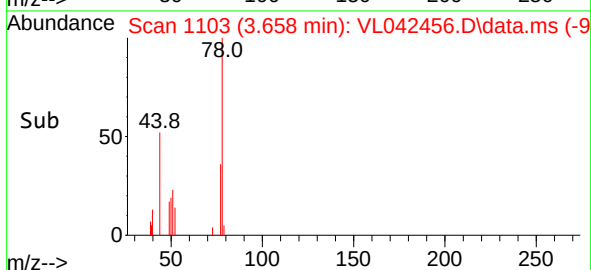
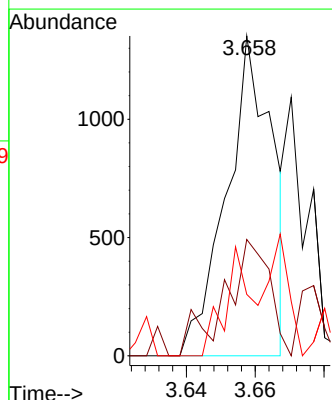
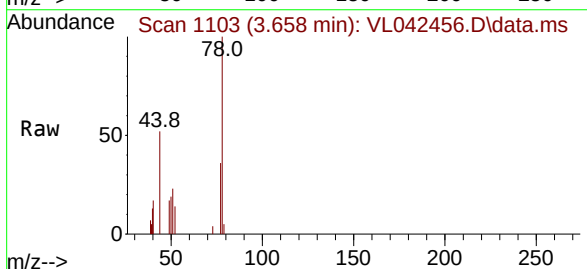
Tgt Ion: 78 Resp: 1247

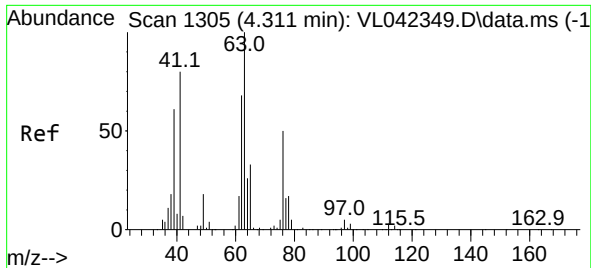
Ion Ratio Lower Upper

78 100

77 36.4 17.4 26.0#

50 19.2 15.5 23.3





#39

1,2-Dichloropropane

Concen: 7.335 ppbv

RT: 3.965 min Scan# 1119

Delta R.T. -0.346 min

Lab File: VL042456.D

Acq: 29 Apr 2025 21:58

Instrument :

MSVOA_L

ClientSampleId :

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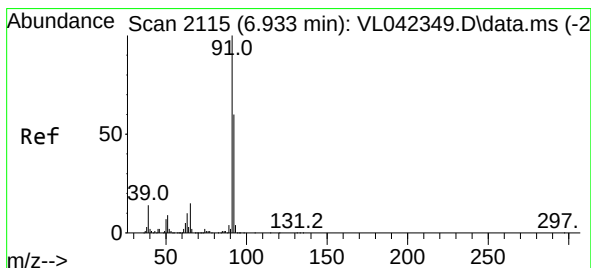
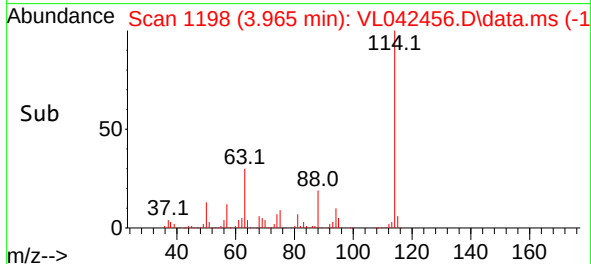
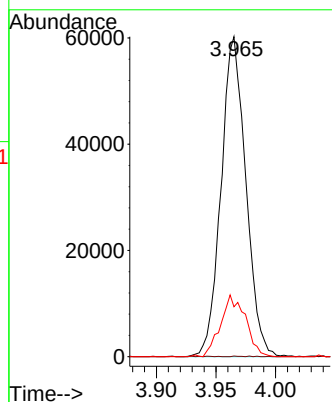
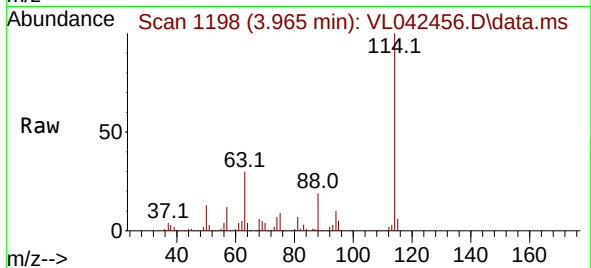
Tgt Ion: 63 Resp: 87069

Ion Ratio Lower Upper

63 100

41 0.2 64.2 96.2#

62 15.6 54.3 81.5#



#53

Toluene

Concen: 0.064 ppbv

RT: 6.946 min Scan# 2119

Delta R.T. 0.013 min

Lab File: VL042456.D

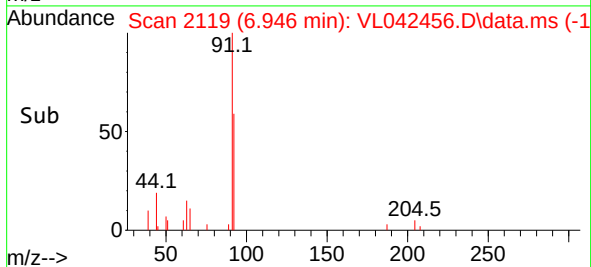
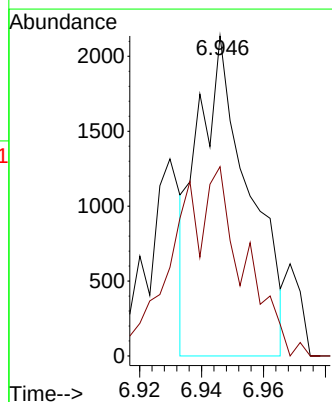
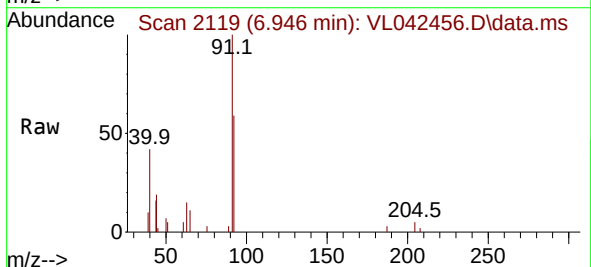
Acq: 29 Apr 2025 21:58

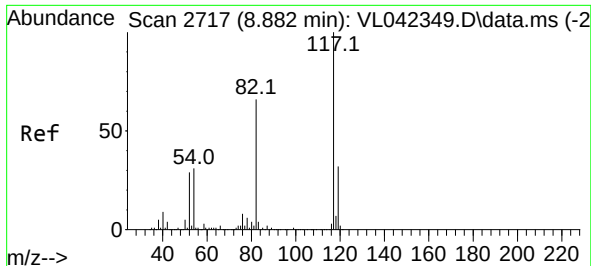
Tgt Ion: 91 Resp: 2460

Ion Ratio Lower Upper

91 100

92 81.2 48.2 72.4#

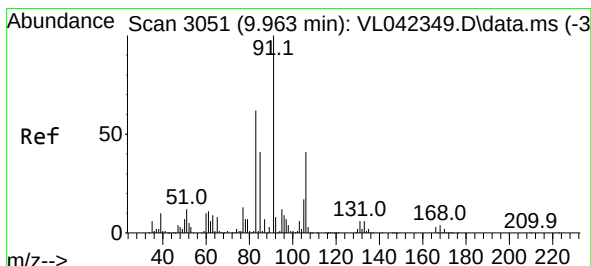
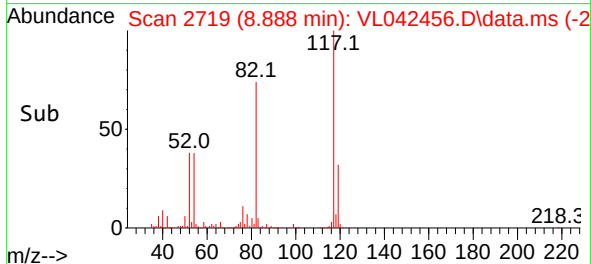
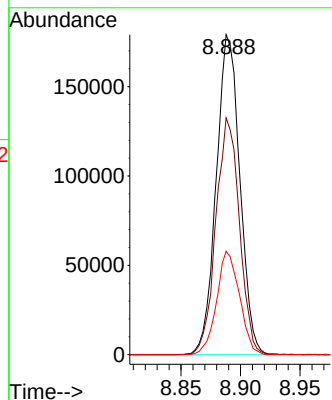
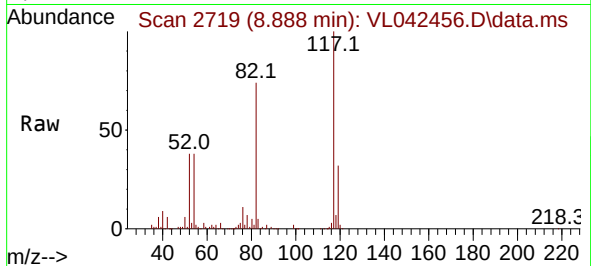




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042456.D
Acq: 29 Apr 2025 21:58

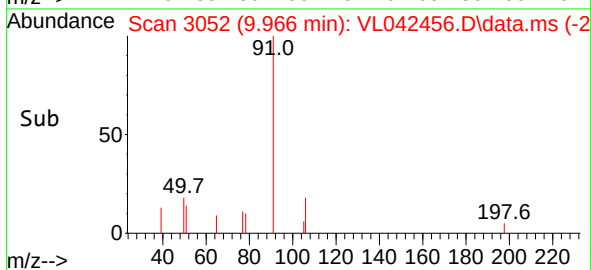
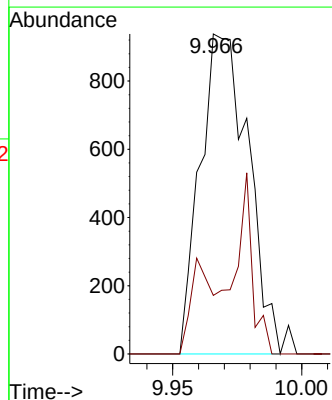
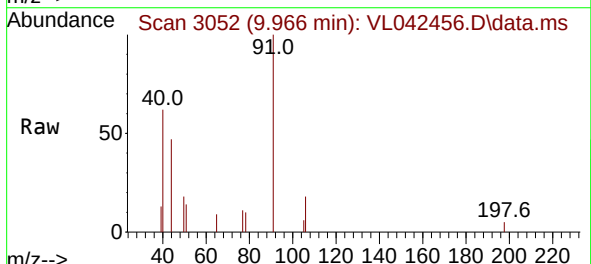
Instrument :
MSVOA_L
ClientSampleId :
B-2

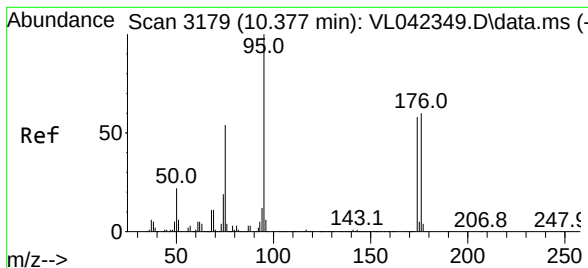
Tgt Ion:117 Resp: 246635
Ion Ratio Lower Upper
117 100
82 73.7 57.8 86.6
119 31.3 25.2 37.8



#60
o-Xylene
Concen: 0.030 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.003 min
Lab File: VL042456.D
Acq: 29 Apr 2025 21:58

Tgt Ion: 91 Resp: 1209
Ion Ratio Lower Upper
91 100
106 34.4 21.1 63.4

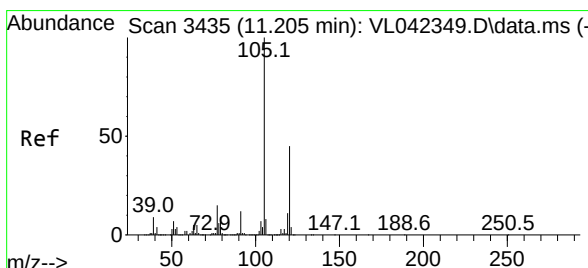
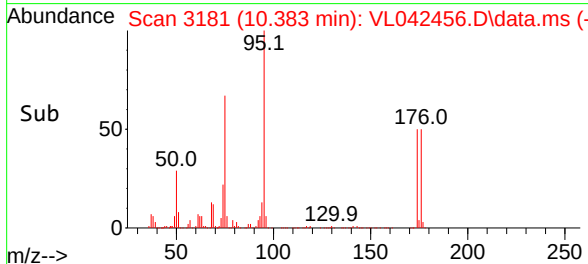
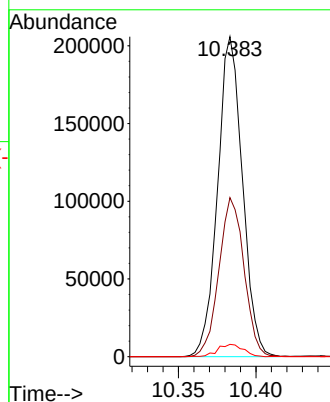
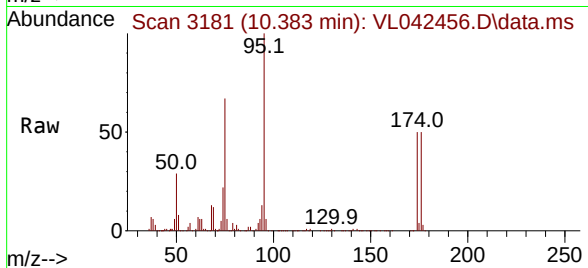




#68
1-Bromo-4-Fluorobenzene
Concen: 11.341 ppbv
RT: 10.383 min Scan# 3179
Delta R.T. 0.006 min
Lab File: VL042456.D
Acq: 29 Apr 2025 21:58

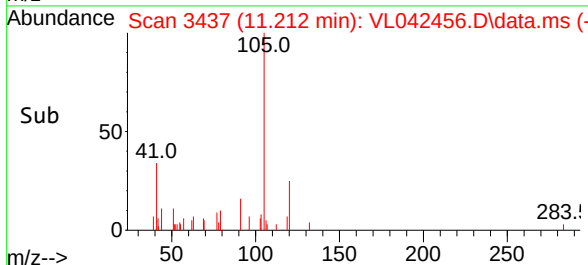
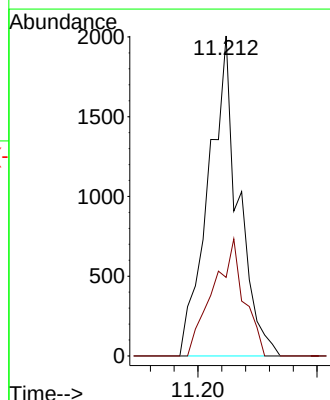
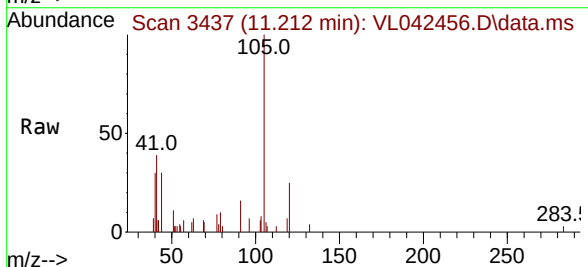
Instrument :
MSVOA_L
ClientSampleId :
B-2

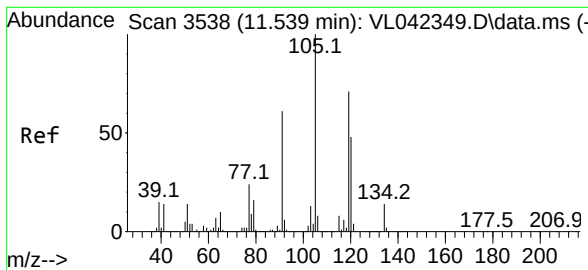
Tgt Ion: 95 Resp: 229841
Ion Ratio Lower Upper
95 100
174 50.3 48.5 72.7
175 4.0 3.7 5.5



#73
1,3,5-Trimethylbenzene
Concen: 0.041 ppbv
RT: 11.212 min Scan# 3437
Delta R.T. 0.006 min
Lab File: VL042456.D
Acq: 29 Apr 2025 21:58

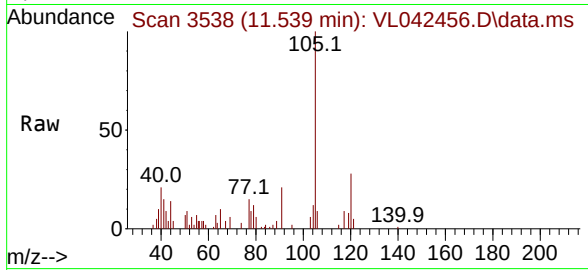
Tgt Ion: 105 Resp: 1755
Ion Ratio Lower Upper
105 100
120 24.6 35.6 53.4#





#74
 1,2,4-Trimethylbenzene
 Concen: 0.109 ppbv
 RT: 11.539 min Scan# 31
 Delta R.T. -0.000 min
 Lab File: VL042456.D
 Acq: 29 Apr 2025 21:58

Instrument :
 MSVOA_L
 ClientSampleId :
 B-2



Tgt Ion:	105	Resp:	5427
Ion	Ratio	Lower	Upper
105	100		
120	22.4	38.1	57.1#
91	21.2	48.8	73.2#
77	13.9	19.0	28.4#

