



SHIPPING DOCUMENTS

Client Contact Information				Bottle Order ID : B2502041				Courier : F GALDUN				1 of 2 COCs							
Client ID : GFEL01 Project ID : 10 Elmridge St.				Sampler Name(s) FRANK GALDUN				Analysis				Matrix							
Customer GFE LLC Name : Address : 58 Nokomis Ave City : Lake Hiawatha State : NJ Zip Code : 07034 Country :				Project Manager : Frank galdun				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified											
				Phone Number : 646-542-3465															
				Fax Number : 973-334-1692															
				Site Details: 404 BLOOMFIELD AVE BLOOMFIELD, NJ															
				Analysis Turnaround Time 5 DAYS				Data Package Type : RESULTS ONLY				Indoor/Ambient Air Soil Gas							
				Standard : 10 business days OR				EDD Type : PDF											
Country :				Rush (Specify): .5 Days															
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				
SV1	3/5/21	8:20	10:20	0.30	5.5	60	60	-30	-4.3	10528	10054	6 L	50	VL041876.D					
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) <i>[Signature]</i>									
		Ambient	Maximum	Minimum															
Start																			
Stop																			
Pressure (Inches of Hg)										** Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY: PCE, TCE, 1,1-DCE, 1,2-DCA, 1,1,1-TCA, VINYLCHLORIDE Please follow the instructions on the back of this COC.									
		Ambient	Maximum	Minimum															
Start																			
Stop																			
Special Instructions/QC Requirements & Comments :																			
Suspected Contamination: High Medium Low PID Readings: 0.0																			
Sampling site (State):																			
Quick Connector required : Yes																			
Canisters Shipped by: Sam				Date/Time: 3/2/21				Canisters Received by: [Signature]				Date/Time: 3/6/21 1340				B2502041 - 1			
Samples Relinquished by: [Signature]				Date/Time: 3/5/21				Received by:				Date/Time:							
Relinquished by:				Date/Time:				Received by:				Date/Time:							

Client Contact Information				Bottle Order ID : B2502041				Courier : F GALDUN				2 of 2 COCs					
Client ID : GFEL01 Project ID : 10 Eldridge St.				Project Manager : Frank galdun				Sampler Name(s) : FRANK GALDUN				Analysis		Matrix			
Customer Name : GFE LLC Address : 58 Nokomis Ave				Phone Number : 646-542-3465				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified									
				Fax Number : 973-334-1692													
				Site Details: 404 BLOOMFIELD AVE													
City : Lake Hiawatha																	
State : NJ				Analysis Turnaround Time 5 DAY													
Zip Code : 07034				Standard : 10 business days OR				Data Package Type : RESULTS ONLY									
Country :				Rush (Specify): 5 Days				EDD Type : PDF									
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15	Indoor/ Ambient Air	Soil Gas
IA1	3/5/25	8:21	10:21	30	5	60	60	-30	-5.1	10550	10329	6 L	50	VL041876.D	1	1	
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) Sant							
		Ambient	Maximum	Minimum													
Start																	
Stop																	
Pressure (Inches of Hg)										*** Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY: PCE, TCE, 1,1-DCE, 1,2-DCA, 1,1,1-TCA, VINYL CHLORIDE Please follow the instructions on the back of this COC.							
		Ambient	Maximum	Minimum													
Start																	
Stop																	
Special Instructions/QC Requirements & Comments :																	
Suspected Contamination: High Medium Low PID Readings: 0,0																	
Sampling site (State):																	
Quick Connector required : NO																	
Canisters Shipped by: Sant				Date/Time: 3/5/25				Canisters Received by: Sant				Date/Time: 3/6/25 1340				B2502041 - 2	
Samples Relinquished by: Sant				Date/Time: 3/5/25				Received by:				Date/Time:					
Relinquished by:				Date/Time:				Received by:				Date/Time:					

Laboratory Certification

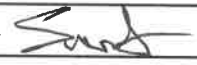
Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

Internal Chain of Custody

Instructions: Use 1 form for each 20 samples of aliquot

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample			
Laboratory: <u>Chemtech</u> ~~NOGE~~ Field Sample Seal No.: <u>Q1506</u> Case No.: <u>404 Bloomfield Ave, Bloom</u>	Location: <u>284 Sheffield Street, Mountainside, NJ 7092</u> Title: <u>Sample Custodian</u> Date Broken: <u>3/6/2025</u> Military Time Seal Broken: <u>13:40:00</u> Analytical Parameter/Fraction: <u>OCMS Group3</u>		

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q1506-01	SV1		
Q1506-02	IA1		

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
3/6	1325	Signature 	Signature 	
		Printed Name <u>George N.</u>	Printed Name <u>Sample Custodian</u>	
		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:	Q1506	OrderDate:	3/6/2025 12:56:00 PM
Client:	GFE LLC	Project:	404 Bloomfield Ave
Contact:	Frank Galdun	Location:	F11,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1506-01	SV1	Air	VOCMS Group3	TO-15	03/05/25		03/10/25	03/06/25
Q1506-02	IA1	Air	VOCMS Group3	TO-15	03/05/25		03/10/25	03/06/25



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

Hit Summary Sheet
SW-846

SDG No.: Q1506

Client: GFE LLC

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	SV1							
Q1506-01	SV1	Air	Tetrachloroethene	1.70		0.41	0.81	ug/m3
			Total Voc :	1.70				
			Total Concentration:	1.70				



QC SUMMARY

Surrogate Summary

SDG No.: Q1506

Client: GFE LLC

Analytical Method: SWTO-15

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q1506-01	SV1	1-Bromo-4-Fluorobenzene	10	11.2	112	65	135
Q1506-02	IA1	1-Bromo-4-Fluorobenzene	10	10.9	109	65	135
Q1532-01DUP	1DUP	1-Bromo-4-Fluorobenzene	10	10.2	101	65	135
VL0310ABL01	VL0310ABL01	1-Bromo-4-Fluorobenzene	10	9.90	99	65	135
VL0310ABS01	VL0310ABS01	1-Bromo-4-Fluorobenzene	10	10.6	106	65	135

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1506
Client: GFE LLC
Analytical Method: SWTO-15 **Datafile :** VL042117.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL0310ABS01	Vinyl Chloride	10	10.4	ppbv	104			70	130	
	1,1-Dichloroethene	10	9.40	ppbv	94			70	130	
	cis-1,2-Dichloroethene	10	7.90	ppbv	79			70	130	
	1,1,1-Trichloroethane	10	7.90	ppbv	79			70	130	
	Trichloroethene	10	8.40	ppbv	84			70	130	
	Tetrachloroethene	10	8.40	ppbv	84			70	130	

Duplicate Sample Summary

Lab Sample Id :	Q1532-01DUP	Q1532-01
Client Id :	1DUP	1
DF :	1	1
Datafile :	VL042122.D	VL042121.D
Anal Date & Time :	03/10/2025 13:32	03/10/2025 12:59

Parameter	Result	Result	RPD
1,1,1-Trichloroethane	0	0	0
1,1-Dichloroethene	0	0	0
cis-1,2-Dichloroethene	0	0	0
Tetrachloroethene	0.14	0.12	15.4
Trichloroethene	0	0	0
Vinyl Chloride	0	0	0

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

1DUP

Lab Name: CHEMTECH

Contract: GFEL01

Lab Code: CHEM Case No.: Q1506

SAS No.: Q1506 SDG NO.: Q1506

Lab File ID: VL042122.D

Lab Sample ID: Q1532-01DUP

Date Analyzed: 03/10/2025

Time Analyzed: 13:32

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
1DUP	Q1532-01DUP	VL042122.D	03/10/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VL0310ABL01

Lab Name: CHEMTECH

Contract: GFEL01

Lab Code: CHEM Case No.: Q1506

SAS No.: Q1506 SDG NO.: Q1506

Lab File ID: VL042116.D

Lab Sample ID: VL0310ABL01

Date Analyzed: 03/10/2025

Time Analyzed: 09:54

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
VL0310ABS01	VL0310ABS01	VL042117.D	03/10/2025
IA1	Q1506-02	VL042129.D	03/10/2025
SV1	Q1506-01	VL042130.D	03/10/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GFEL01
Lab Code: CHEM Case No.: Q1506 SAS No.: Q1506 SDG NO.: Q1506
Lab File ID: VL042040.D BFB Injection Date: 02/25/2025
Instrument ID: MSVOA_L BFB Injection Time: 07:56
GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	22.6
75	30.0 - 66.0% of mass 95	55.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.7 (1.1) 1
174	50.0 - 120.0% of mass 95	63.3
175	4.0 - 9.0% of mass 174	4.9 (7.8) 1
176	93.0 - 101.0% of mass 174	60.9 (96.1) 1
177	5.0 - 9.0% of mass 176	3.4 (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
VSTDICCC010	VSTDICCC010	VL042041.D	02/25/2025	08:56
VSTDICCC002	VSTDICCC002	VL042042.D	02/25/2025	09:29
VSTDICCC001	VSTDICCC001	VL042043.D	02/25/2025	10:00
VSTDICCC0.5	VSTDICCC0.5	VL042044.D	02/25/2025	10:31
VSTDICCC0.1	VSTDICCC0.1	VL042045.D	02/25/2025	11:03
VSTDICCC0.03	VSTDICCC0.03	VL042046.D	02/25/2025	11:34
VSTDICCC015	VSTDICCC015	VL042047.D	02/25/2025	12:07

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GFEL01
Lab Code: CHEM Case No.: Q1506 SAS No.: Q1506 SDG NO.: Q1506
Lab File ID: VL042114.D BFB Injection Date: 03/10/2025
Instrument ID: MSVOA_L BFB Injection Time: 08:22
GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	22.6
75	30.0 - 66.0% of mass 95	53.4
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.7 (1.1) 1
174	50.0 - 120.0% of mass 95	63.1
175	4.0 - 9.0% of mass 174	4.8 (7.6) 1
176	93.0 - 101.0% of mass 174	60.4 (95.6) 1
177	5.0 - 9.0% of mass 176	3.9 (6.5) 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	VL042115.D	03/10/2025	09:08
VL0310ABL01	VL0310ABL01	VL042116.D	03/10/2025	09:54
VL0310ABS01	VL0310ABS01	VL042117.D	03/10/2025	10:52
1DUP	Q1532-01DUP	VL042122.D	03/10/2025	13:32
IA1	Q1506-02	VL042129.D	03/10/2025	17:20
SV1	Q1506-01	VL042130.D	03/10/2025	17:52

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GFEL01
 Lab Code: CHEM Case No.: Q1506 SAS No.: Q1506 SDG NO.: Q1506
 Lab File ID: VL042115.D Date Analyzed: 03/10/2025
 Instrument ID: MSVOA_L Time Analyzed: 09:08
 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	165085	2.80	392891	3.98	342991	8.90
UPPER LIMIT	231119	3.13	550047	4.31	480187	9.23
LOWER LIMIT	99051	2.47	235735	3.65	205795	8.57
EPA SAMPLE NO.						
SV1	170506	2.80	389368	3.98	362933	8.90
IA1	155742	2.80	361993	3.98	308529	8.90
1DUP	163759	2.80	380274	3.98	322839	8.90
VL0310ABL01	162394	2.80	386417	3.97	325291	8.90
VL0310ABS01	168824	2.80	400351	3.98	350466	8.90

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

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GFEL01
 Lab Code: CHEM Case No.: Q1506 SAS No.: Q1506 SDG NO.: Q1506
 Lab File ID: VL042115.D Date Analyzed: 03/10/2025
 Instrument ID: MSVOA_L Time Analyzed: 09:08
 GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	0	0				
UPPER LIMIT	0					
LOWER LIMIT	0					
EPA SAMPLE NO.						
SV1	0	0.00				
IA1	0	0.00				
1DUP	0	0.00				
VL0310ABL01	0	0.00				
VL0310ABS01	0	0.00				

IS4 =

AREA UPPER LIMIT = +40% of internal standard area

AREA LOWER LIMIT = -40% of internal standard area

RT UPPER LIMIT = +0.33 minutes of internal standard RT

RT LOWER LIMIT = -0.33 minutes of internal standard RT

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

* Values outside of QC limits.



SAMPLE DATA

Report of Analysis

Client:	GFE LLC	Date Collected:	03/05/25
Project:	404 Bloomfield Ave	Date Received:	03/06/25
Client Sample ID:	SV1	SDG No.:	Q1506
Lab Sample ID:	Q1506-01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042130.D	4		03/10/25 17:52	VL031025

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.060	0.15	U	0.15	0.31	ug/m3
75-35-4	1,1-Dichloroethene	0.56	2.22	U	2.22	7.93	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.36	1.43	U	1.43	7.93	ug/m3
71-55-6	1,1,1-Trichloroethane	0.040	0.22	U	0.22	0.65	ug/m3
79-01-6	Trichloroethene	0.070	0.38	U	0.38	0.64	ug/m3
127-18-4	Tetrachloroethene	0.25	1.70		0.41	0.81	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	11.2			65 - 135	112%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	171000		2.8			
540-36-3	1,4-Difluorobenzene	389000		3.982			
3114-55-4	Chlorobenzene-d5	363000		8.901			

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\VL031025\
 Data File : VL042130.D
 Acq On : 10 Mar 2025 17:52
 Operator : SY/MD
 Sample : Q1506-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Quant Time: Mar 11 01:28:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

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

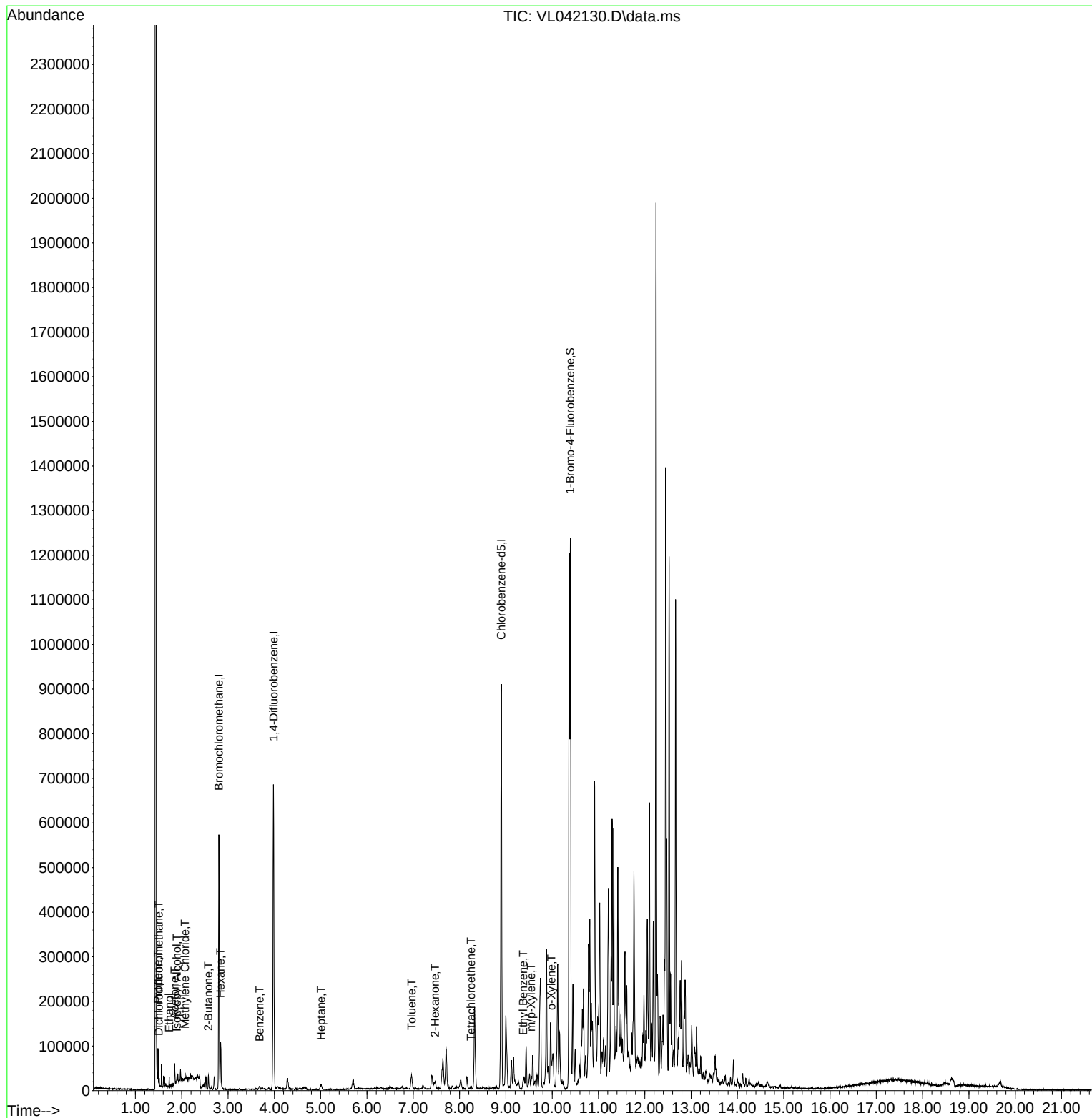
Internal Standards						
1) Bromochloromethane	2.800	49	170506	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.982	114	389368	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.901	117	362933	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	312050	11.176	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	111.800%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.502	85	3106	0.175	ppbv #	85
9) Propene	1.486	41	11439	1.133	ppbv	100
10) Heptane	5.011	43	4327m	0.138	ppbv	
13) Ethanol	1.729	45	6546	10.214	ppbv #	33
15) Acetone	1.846	43	19762	1.312	ppbv #	80
19) Isopropyl Alcohol	1.894	45	5237	0.605	ppbv #	1
20) Methylene Chloride	2.069	84	2392	0.420	ppbv #	80
26) Hexane	2.839	57	19732	0.810	ppbv #	32
34) 2-Butanone	2.574	43	18077	0.596	ppbv	96
36) Benzene	3.677	78	4261m	0.105	ppbv	
51) 2-Hexanone	7.471	43	6741	0.250	ppbv #	94
52) Tetrachloroethene	8.244	164	877m	0.063	ppbv	
53) Toluene	6.963	91	20904	0.459	ppbv	97
58) Ethyl Benzene	9.374	91	8439m	0.126	ppbv	
59) m/p-Xylene	9.545	91	17181m	0.323	ppbv	
60) o-Xylene	9.979	91	12149	0.227	ppbv	89

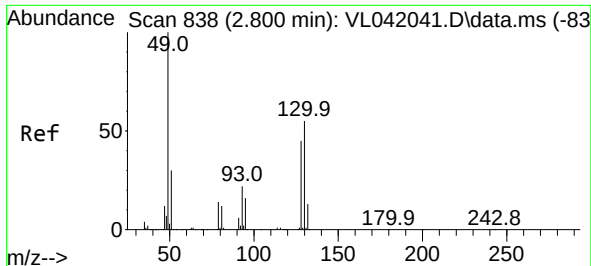
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
Data File : VL042130.D
Acq On : 10 Mar 2025 17:52
Operator : SY/MD
Sample : Q1506-01 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SV1

Quant Time: Mar 11 01:28:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

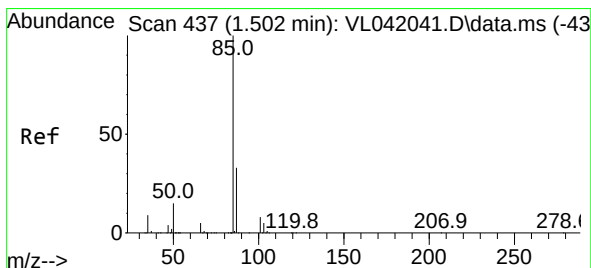
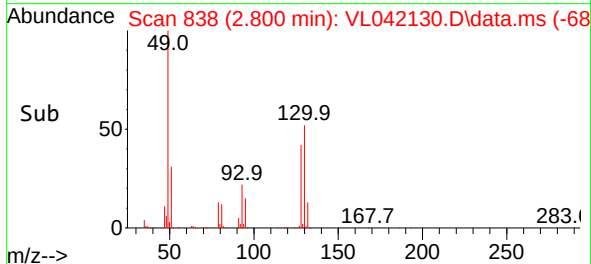
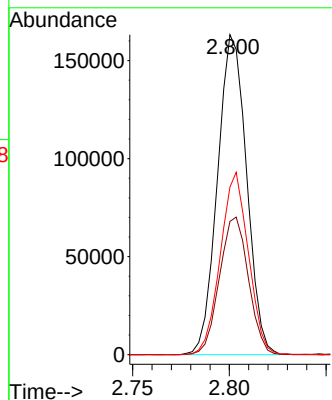
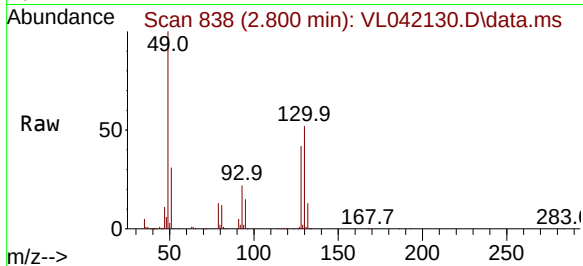




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 81
Delta R.T. 0.000 min
Lab File: VL042130.D
Acq: 10 Mar 2025 17:52

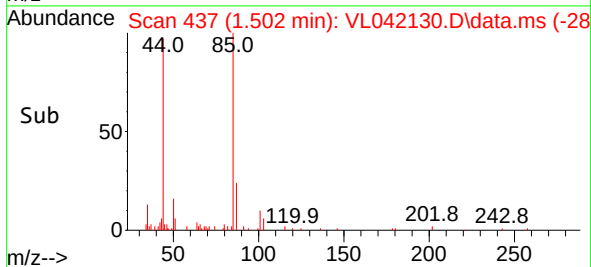
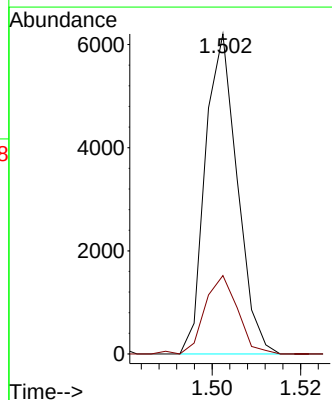
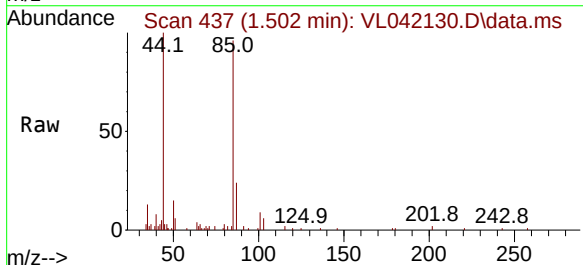
Instrument :
MSVOA_L
ClientSampleId :
SV1

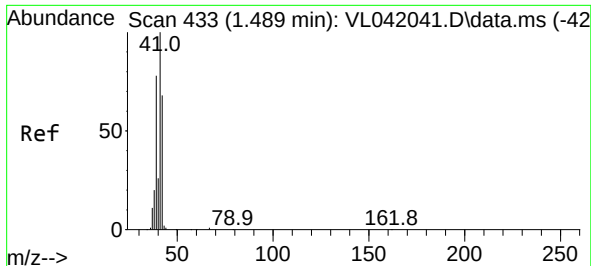
Tgt Ion: 49 Resp: 170506
Ion Ratio Lower Upper
49 100
128 42.8 21.6 64.8
130 55.0 27.8 83.4



#2
Dichlorodifluoromethane
Concen: 0.175 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.000 min
Lab File: VL042130.D
Acq: 10 Mar 2025 17:52

Tgt Ion: 85 Resp: 3106
Ion Ratio Lower Upper
85 100
87 24.5 26.4 39.6#





#9

Propene

Concen: 1.133 ppbv

RT: 1.486 min Scan# 41

Delta R.T. -0.003 min

Lab File: VL042130.D

Acq: 10 Mar 2025 17:52

Instrument :

MSVOA_L

ClientSampleId :

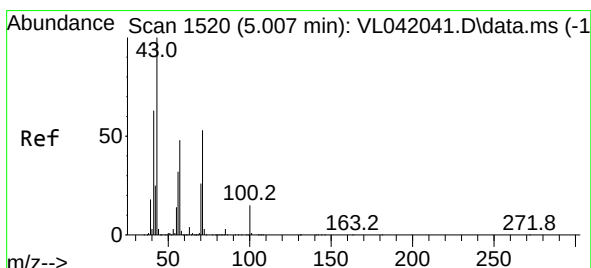
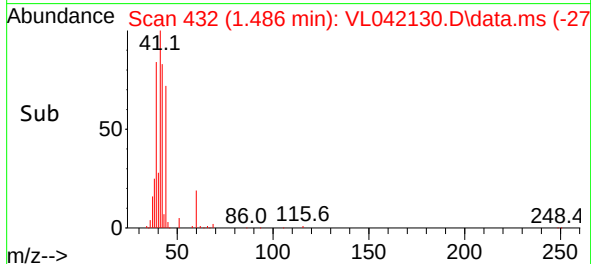
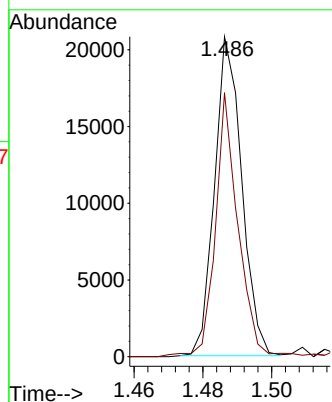
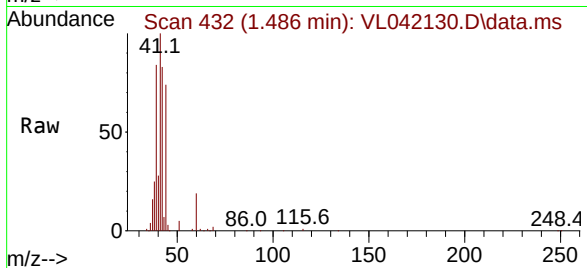
SV1

Tgt Ion: 41 Resp: 11439

Ion Ratio Lower Upper

41 100

42 70.0 55.8 83.6



#10

Heptane

Concen: 0.138 ppbv m

RT: 5.011 min Scan# 1521

Delta R.T. 0.004 min

Lab File: VL042130.D

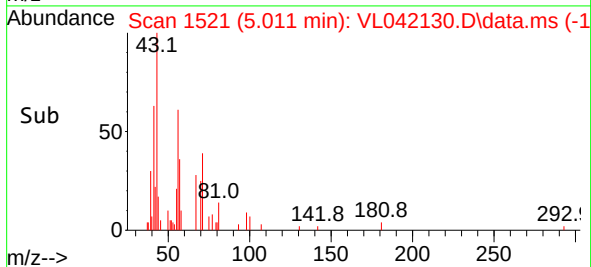
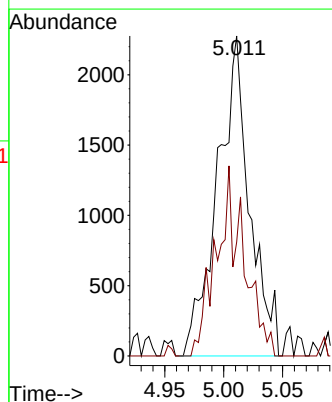
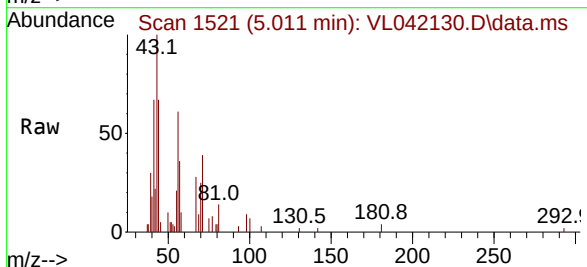
Acq: 10 Mar 2025 17:52

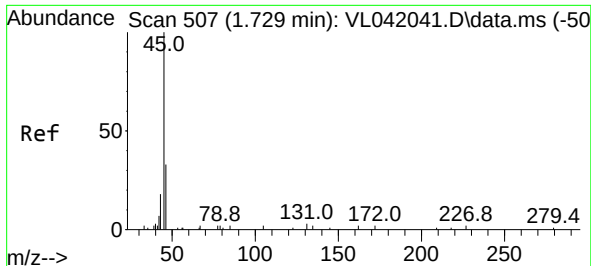
Tgt Ion: 43 Resp: 4327

Ion Ratio Lower Upper

43 100

57 0.0 39.4 59.0#

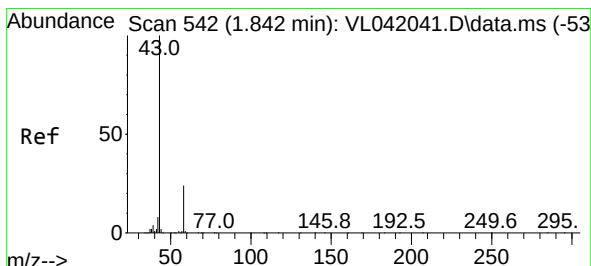
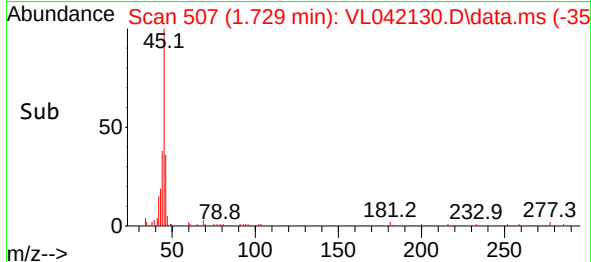
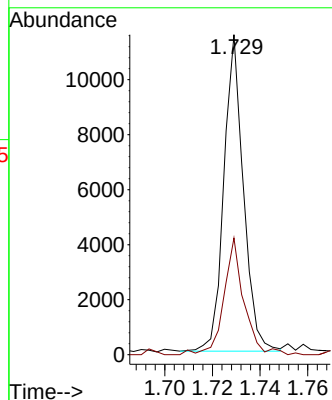
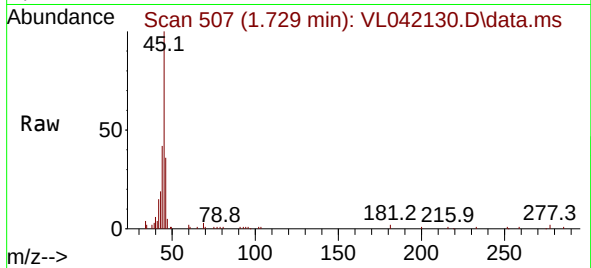




#13
 Ethanol
 Concen: 10.214 ppbv
 RT: 1.729 min Scan# 507
 Delta R.T. 0.000 min
 Lab File: VL042130.D
 Acq: 10 Mar 2025 17:52

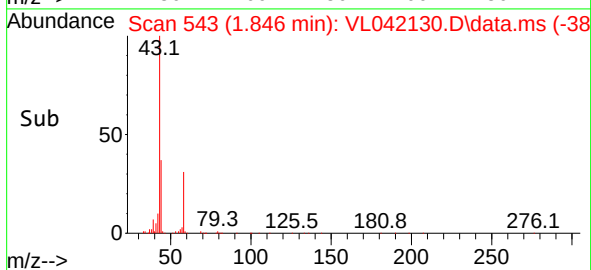
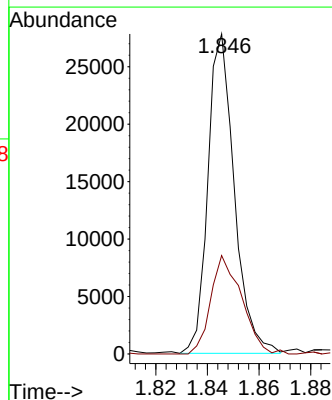
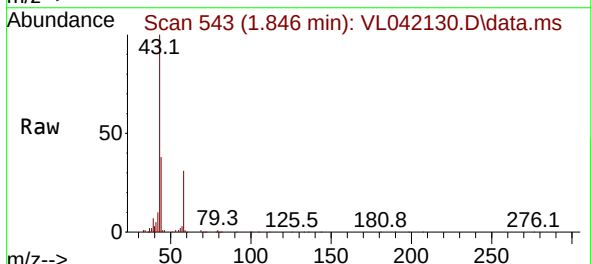
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

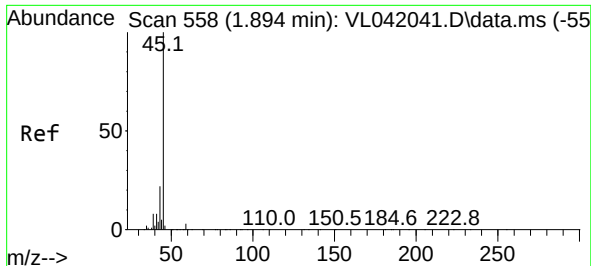
Tgt Ion: 45 Resp: 6546
 Ion Ratio Lower Upper
 45 100
 46 0.0 17.1 68.3#



#15
 Acetone
 Concen: 1.312 ppbv
 RT: 1.846 min Scan# 543
 Delta R.T. 0.004 min
 Lab File: VL042130.D
 Acq: 10 Mar 2025 17:52

Tgt Ion: 43 Resp: 19762
 Ion Ratio Lower Upper
 43 100
 58 36.0 20.7 31.1#

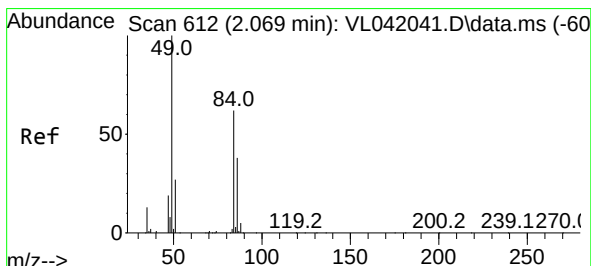
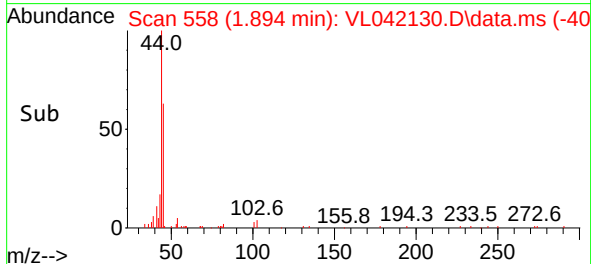
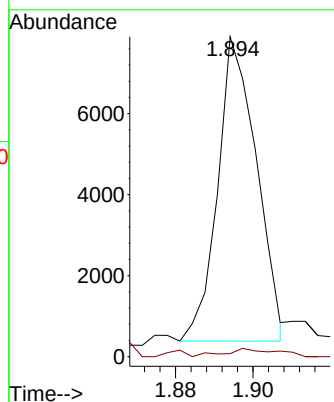
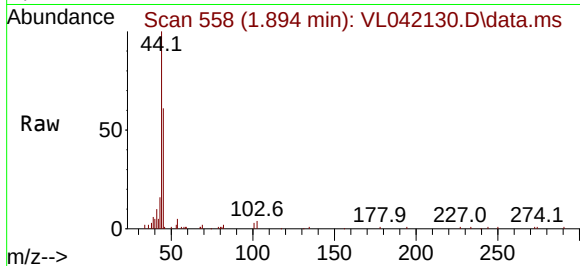




#19
Isopropyl Alcohol
Concen: 0.605 ppbv
RT: 1.894 min Scan# 519
Delta R.T. 0.000 min
Lab File: VL042130.D
Acq: 10 Mar 2025 17:52

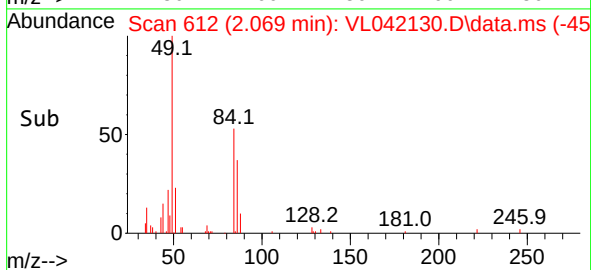
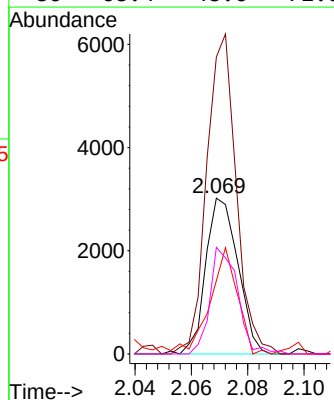
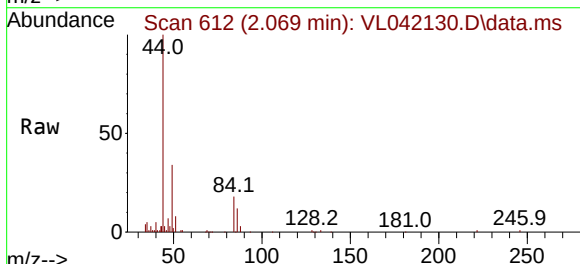
Instrument :
MSVOA_L
ClientSampleId :
SV1

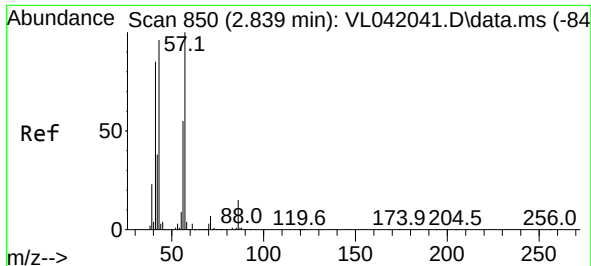
Tgt Ion: 45 Resp: 5237
Ion Ratio Lower Upper
45 100
58 139.0 35.3 52.9#



#20
Methylene Chloride
Concen: 0.420 ppbv
RT: 2.069 min Scan# 612
Delta R.T. 0.000 min
Lab File: VL042130.D
Acq: 10 Mar 2025 17:52

Tgt Ion: 84 Resp: 2392
Ion Ratio Lower Upper
84 100
49 200.9 130.0 195.0#
51 44.9 37.4 56.0
86 68.4 48.6 72.8

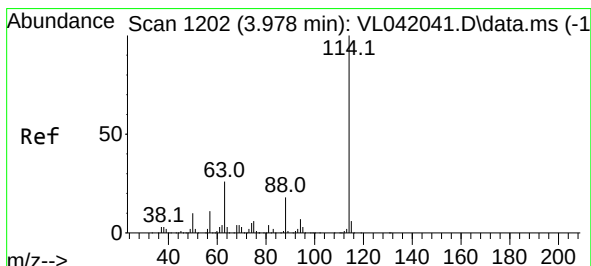
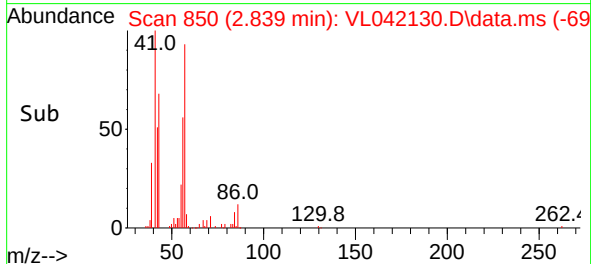
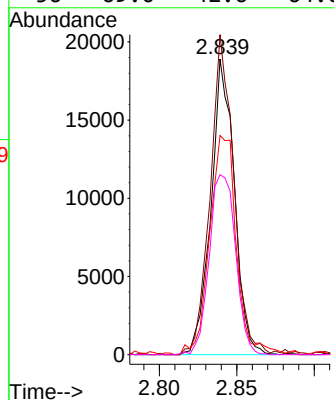
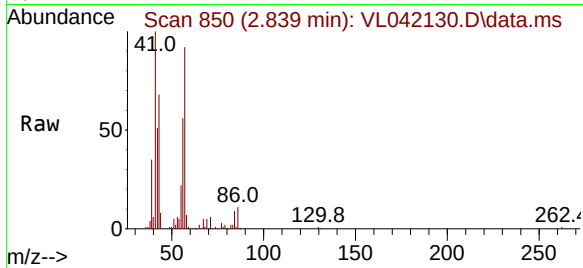




#26
Hexane
Concen: 0.810 ppbv
RT: 2.839 min Scan# 81
Delta R.T. 0.000 min
Lab File: VL042130.D
Acq: 10 Mar 2025 17:52

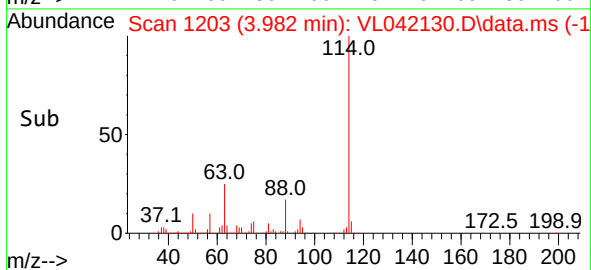
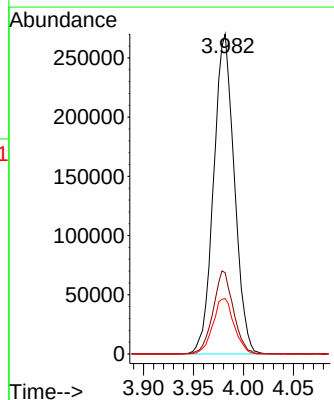
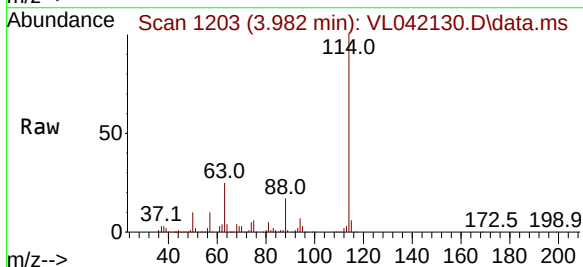
Instrument :
MSVOA_L
ClientSampleId :
SV1

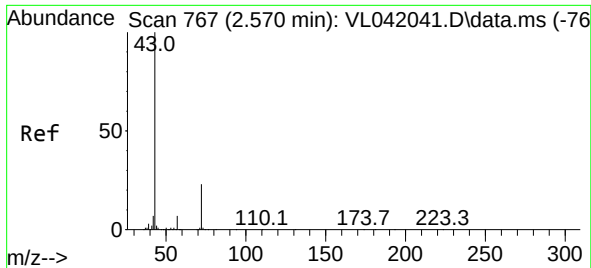
Tgt Ion: 57	Resp: 19732
Ion Ratio	Lower Upper
57 100	
41 110.4	70.6 106.0#
43 86.7	199.4 299.0#
56 69.0	42.6 64.0#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.982 min Scan# 1203
Delta R.T. 0.004 min
Lab File: VL042130.D
Acq: 10 Mar 2025 17:52

Tgt Ion:114	Resp: 389368
Ion Ratio	Lower Upper
114 100	
63 25.5	20.1 30.1
88 17.7	14.3 21.5

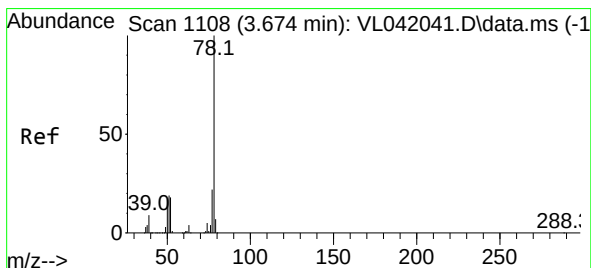
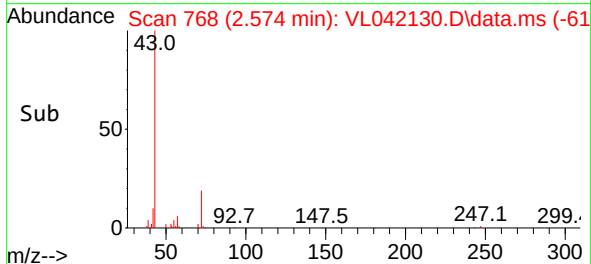
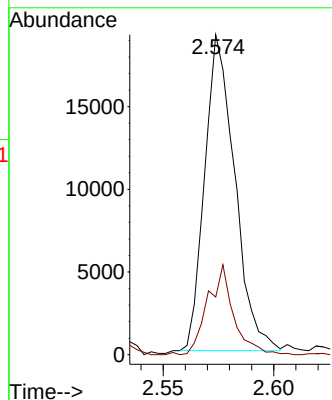
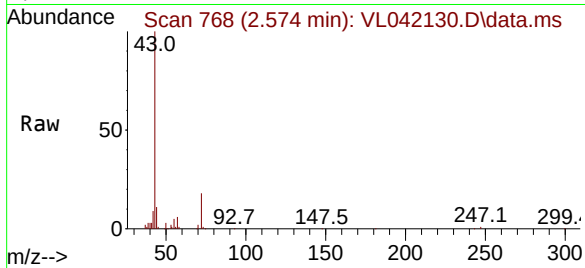




#34
2-Butanone
Concen: 0.596 ppbv
RT: 2.574 min Scan# 768
Delta R.T. 0.004 min
Lab File: VL042130.D
Acq: 10 Mar 2025 17:52

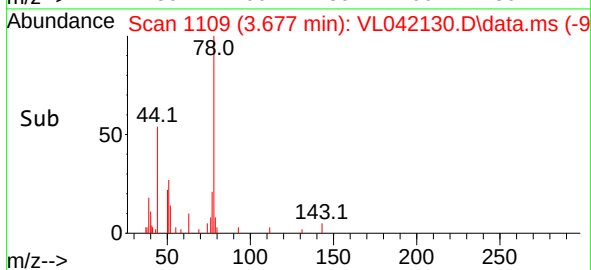
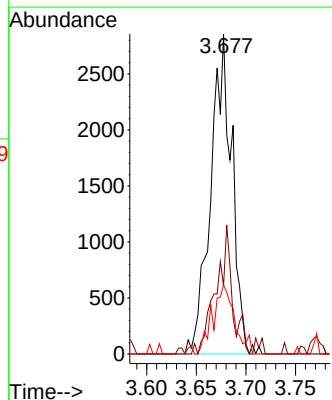
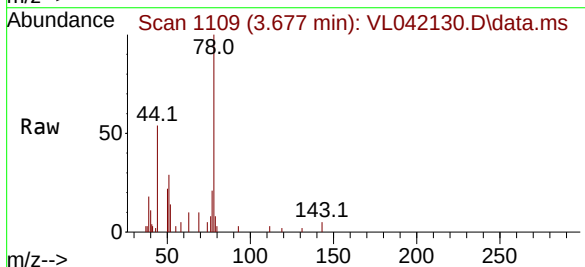
Instrument :
MSVOA_1
ClientSampleId :
SV1

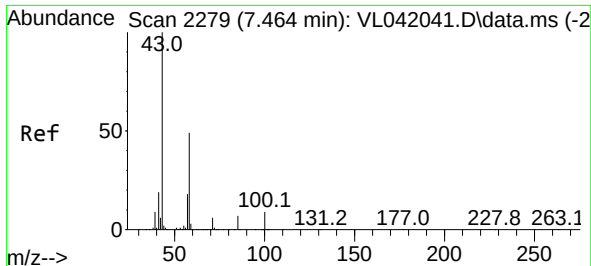
Tgt Ion: 43 Resp: 18077
Ion Ratio Lower Upper
43 100
72 24.9 18.5 27.7



#36
Benzene
Concen: 0.105 ppbv m
RT: 3.677 min Scan# 1109
Delta R.T. 0.004 min
Lab File: VL042130.D
Acq: 10 Mar 2025 17:52

Tgt Ion: 78 Resp: 4261
Ion Ratio Lower Upper
78 100
77 21.3 17.7 26.5
50 21.5 13.9 20.9#

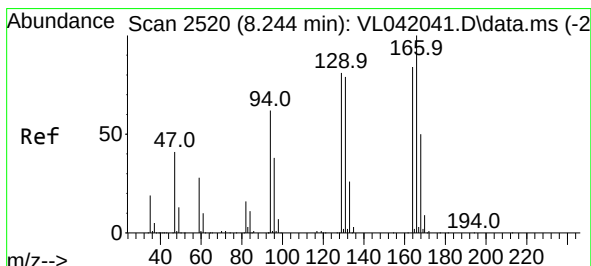
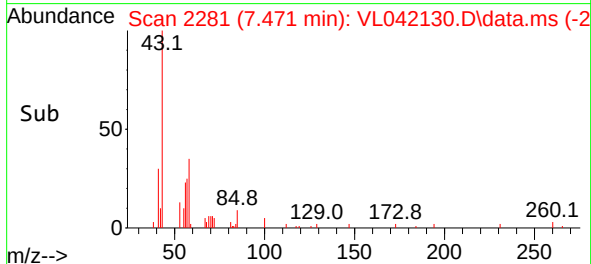
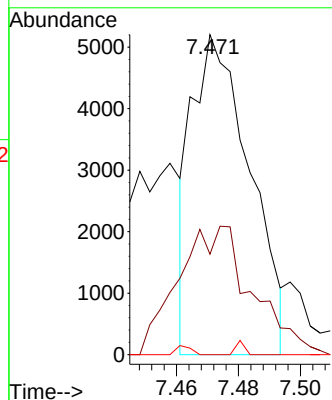
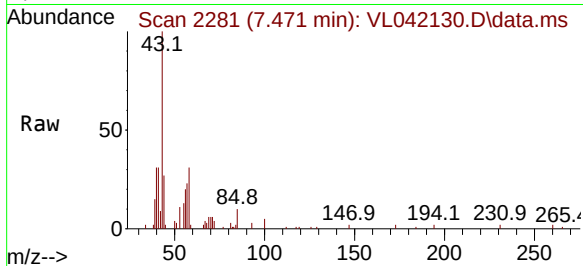




#51
2-Hexanone
Concen: 0.250 ppbv
RT: 7.471 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL042130.D
Acq: 10 Mar 2025 17:52

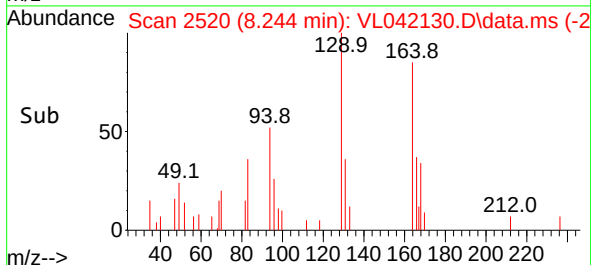
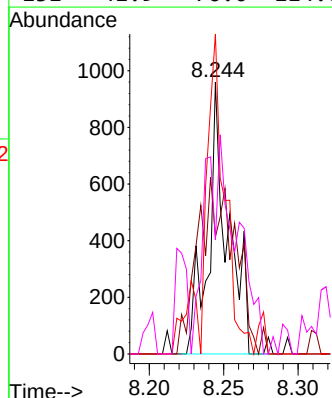
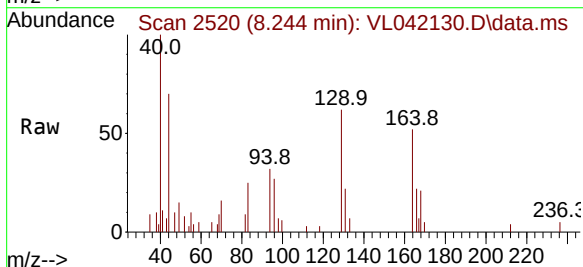
Instrument :
MSVOA_L
ClientSampleId :
SV1

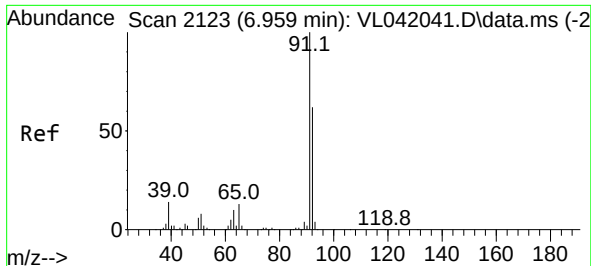
Tgt Ion: 43 Resp: 6741
Ion Ratio Lower Upper
43 100
58 52.8 39.0 58.6
98 1.4 0.1 0.1#



#52
Tetrachloroethene
Concen: 0.063 ppbv m
RT: 8.244 min Scan# 2520
Delta R.T. 0.000 min
Lab File: VL042130.D
Acq: 10 Mar 2025 17:52

Tgt Ion: 164 Resp: 877
Ion Ratio Lower Upper
164 100
166 43.0 95.7 143.5#
129 117.7 77.1 115.7#
131 41.9 76.0 114.0#

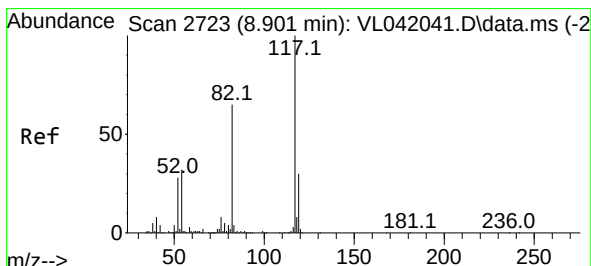
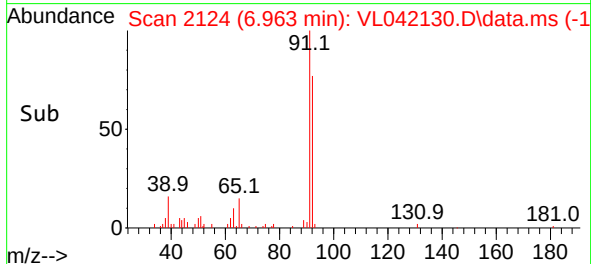
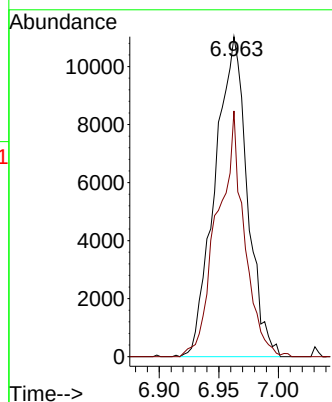
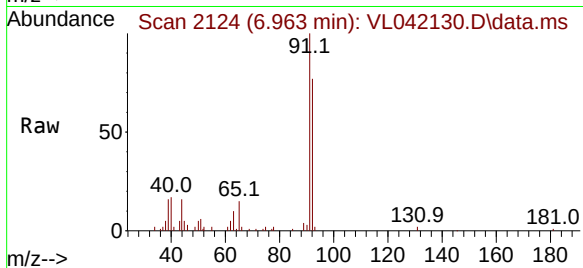




#53
Toluene
Concen: 0.459 ppbv
RT: 6.963 min Scan# 2123
Delta R.T. 0.004 min
Lab File: VL042130.D
Acq: 10 Mar 2025 17:52

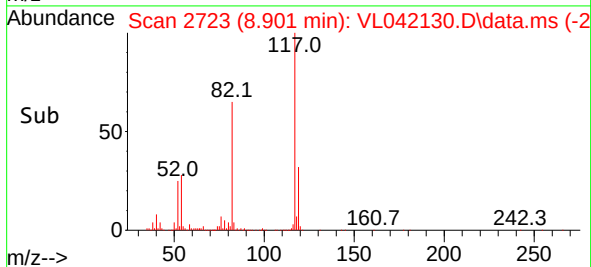
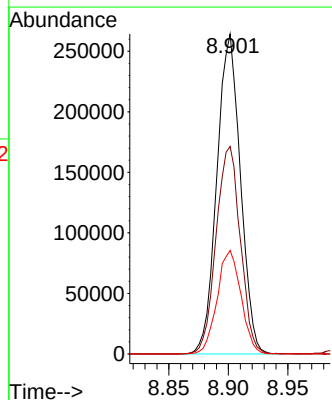
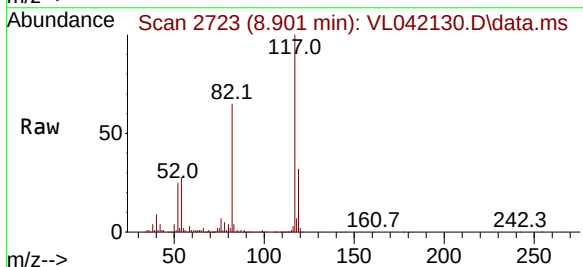
Instrument :
MSVOA_L
ClientSampleId :
SV1

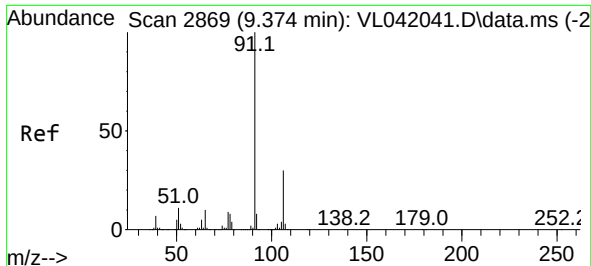
Tgt Ion: 91 Resp: 20904
Ion Ratio Lower Upper
91 100
92 63.8 49.0 73.6



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.901 min Scan# 2723
Delta R.T. 0.000 min
Lab File: VL042130.D
Acq: 10 Mar 2025 17:52

Tgt Ion: 117 Resp: 362933
Ion Ratio Lower Upper
117 100
82 66.7 55.0 82.6
119 32.8 25.9 38.9

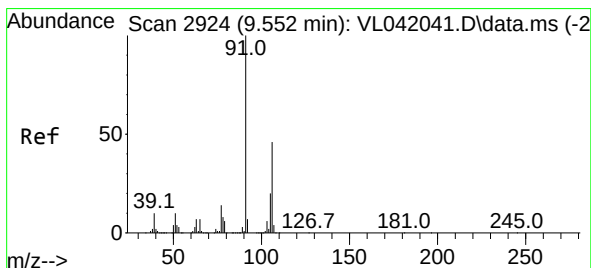
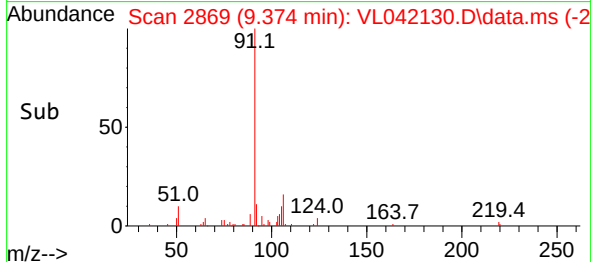
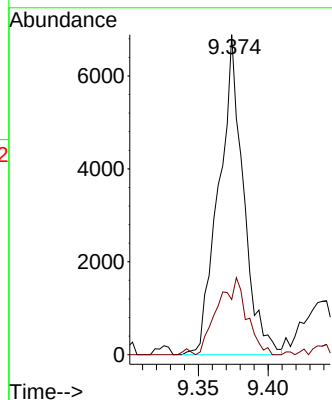
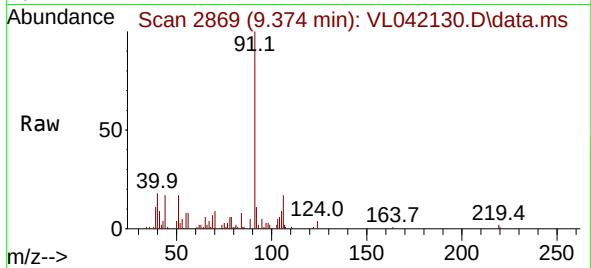




#58
Ethyl Benzene
Concen: 0.126 ppbv m
RT: 9.374 min Scan# 2869
Delta R.T. 0.000 min
Lab File: VL042130.D
Acq: 10 Mar 2025 17:52

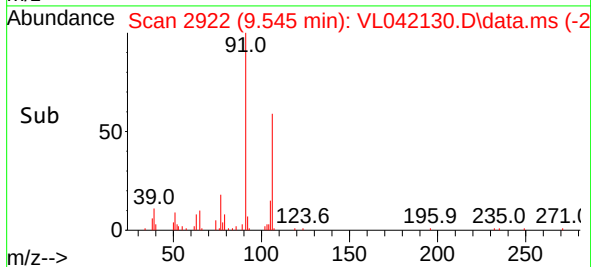
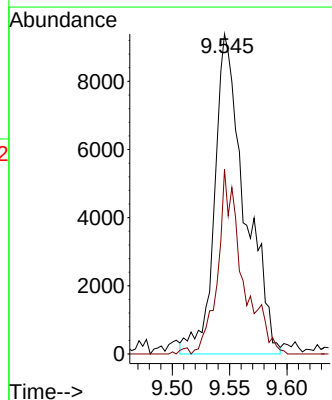
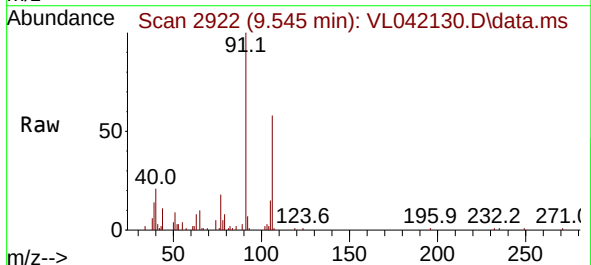
Instrument :
MSVOA_L
ClientSampleId :
SV1

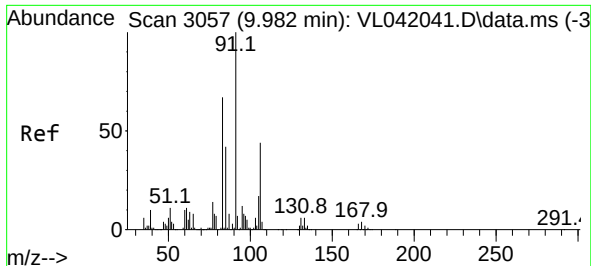
Tgt Ion: 91 Resp: 8439
Ion Ratio Lower Upper
91 100
106 17.2 24.2 36.2#



#59
m/p-Xylene
Concen: 0.323 ppbv m
RT: 9.545 min Scan# 2922
Delta R.T. -0.006 min
Lab File: VL042130.D
Acq: 10 Mar 2025 17:52

Tgt Ion: 91 Resp: 17181
Ion Ratio Lower Upper
91 100
106 47.6 0.0 0.0#

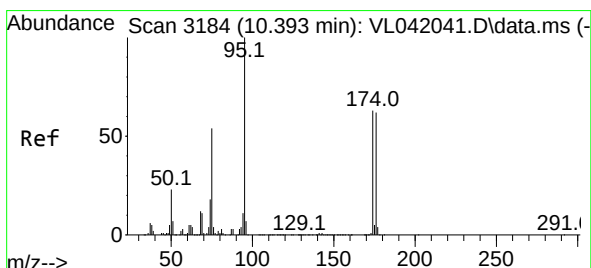
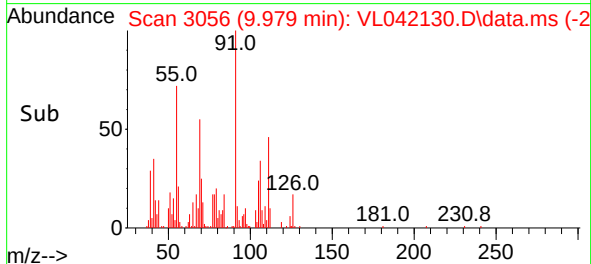
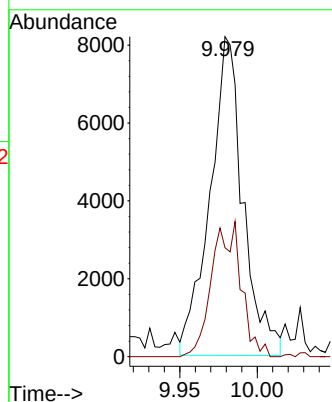
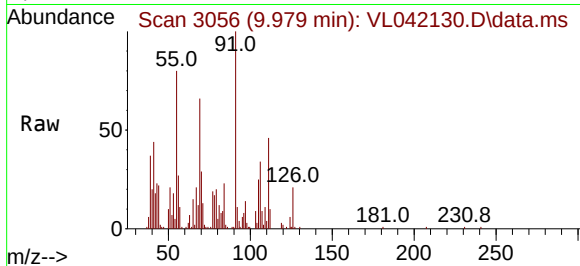




#60
o-Xylene
Concen: 0.227 ppbv
RT: 9.979 min Scan# 3056
Delta R.T. -0.003 min
Lab File: VL042130.D
Acq: 10 Mar 2025 17:52

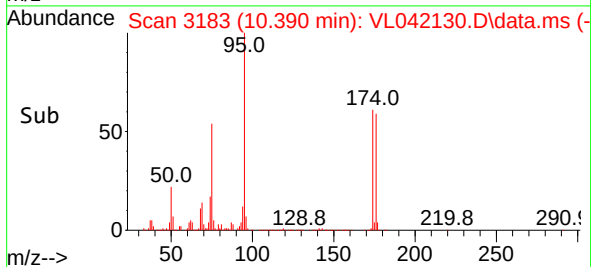
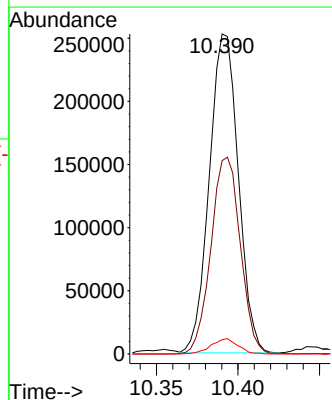
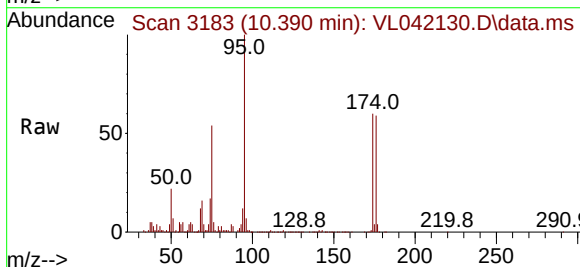
Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 12149
Ion Ratio Lower Upper
91 100
106 37.5 22.3 66.8



#68
1-Bromo-4-Fluorobenzene
Concen: 11.176 ppbv
RT: 10.390 min Scan# 3183
Delta R.T. -0.003 min
Lab File: VL042130.D
Acq: 10 Mar 2025 17:52

Tgt Ion: 95 Resp: 312050
Ion Ratio Lower Upper
95 100
174 62.4 51.8 77.6
175 4.4 3.9 5.9



Report of Analysis

Client:	GFE LLC	Date Collected:	03/05/25
Project:	404 Bloomfield Ave	Date Received:	03/06/25
Client Sample ID:	IA1	SDG No.:	Q1506
Lab Sample ID:	Q1506-02	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042129.D	1		03/10/25 17:20	VL031025

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.9			65 - 135	109%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	156000		2.797			
540-36-3	1,4-Difluorobenzene	362000		3.975			
3114-55-4	Chlorobenzene-d5	309000		8.898			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
 Data File : VL042129.D
 Acq On : 10 Mar 2025 17:20
 Operator : SY/MD
 Sample : Q1506-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Quant Time: Mar 11 01:27:44 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

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

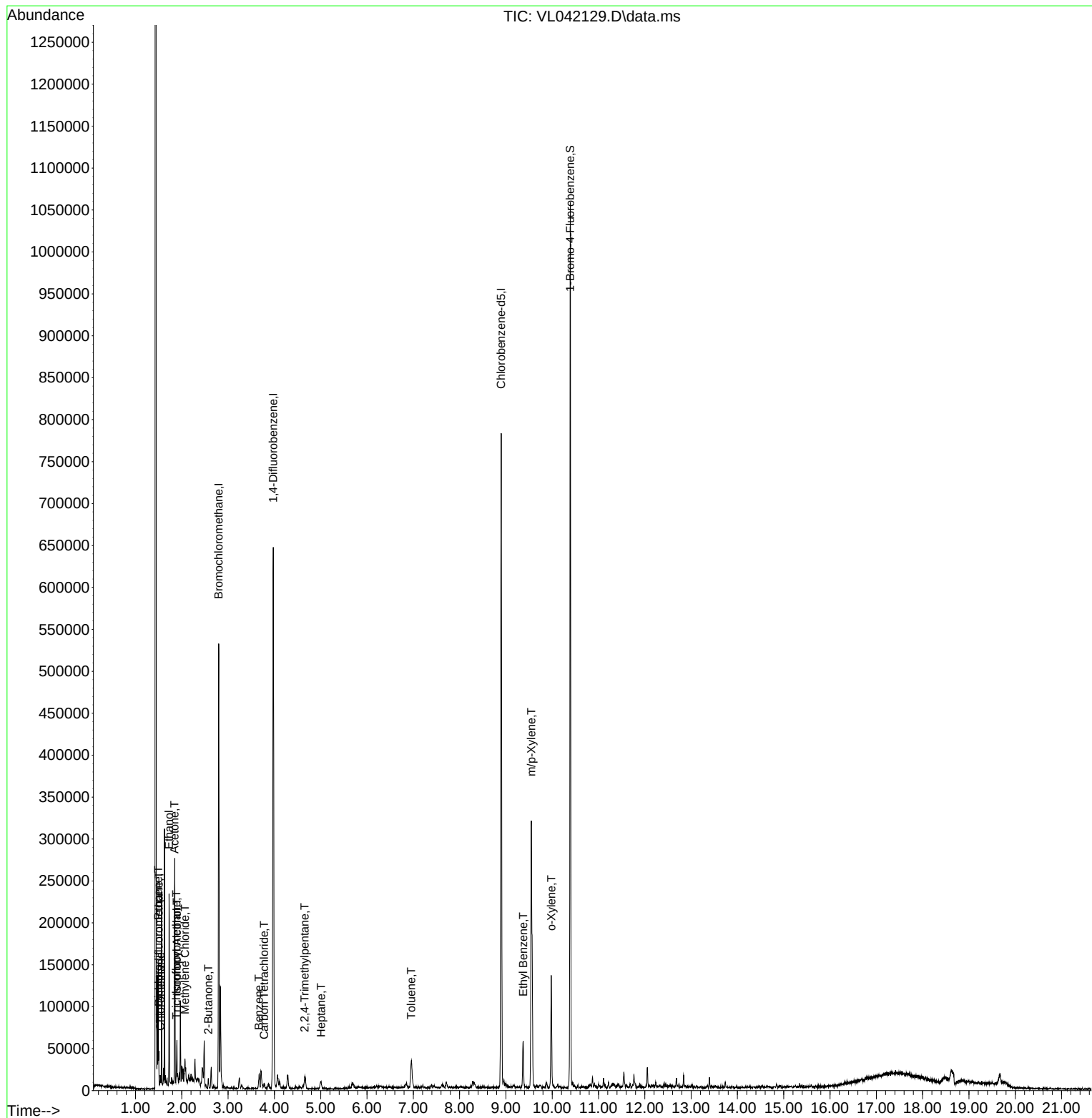
Internal Standards						
1) Bromochloromethane	2.797	49	155742	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	361993	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	308529	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	259167	10.918	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 109.200%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.502	85	8995	0.555	ppbv	99
4) Chloromethane	1.534	50	3411	0.570	ppbv #	76
9) Propene	1.492	41	12884m	1.397	ppbv	
10) Heptane	5.007	43	3718m	0.129	ppbv	
11) Trichlorofluoromethane	1.884	101	4807	0.296	ppbv	91
13) Ethanol	1.725	45	76408	130.528	ppbv	91
15) Acetone	1.842	43	106603	7.751	ppbv #	89
19) Isopropyl Alcohol	1.894	45	20146	2.550	ppbv #	3
20) Methylene Chloride	2.068	84	4206	0.808	ppbv	95
34) 2-Butanone	2.570	43	7380	0.262	ppbv	97
35) Carbon Tetrachloride	3.777	117	2021m	0.081	ppbv	
36) Benzene	3.667	78	10673	0.282	ppbv #	85
44) 2,2,4-Trimethylpentane	4.654	57	10669m	0.160	ppbv	
53) Toluene	6.952	91	22652m	0.535	ppbv	
58) Ethyl Benzene	9.373	91	28623	0.504	ppbv	97
59) m/p-Xylene	9.548	91	200012	4.423	ppbv #	100
60) o-Xylene	9.979	91	57106	1.256	ppbv	99

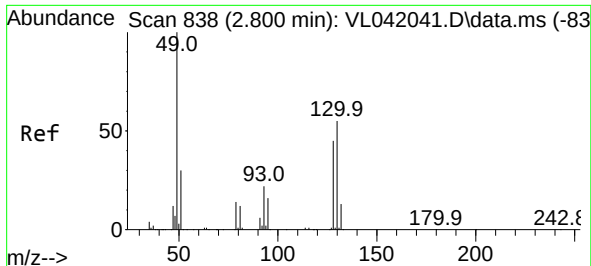
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
Data File : VL042129.D
Acq On : 10 Mar 2025 17:20
Operator : SY/MD
Sample : Q1506-02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA1

Quant Time: Mar 11 01:27:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

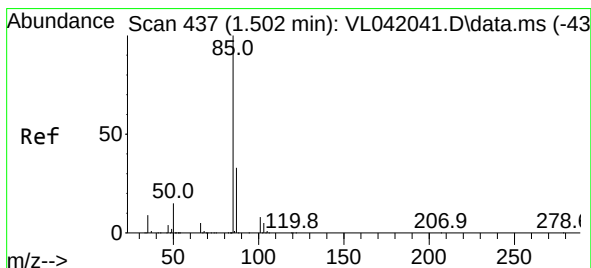
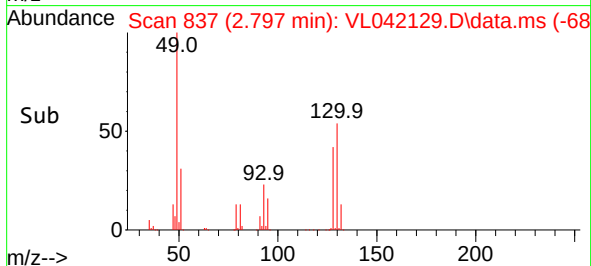
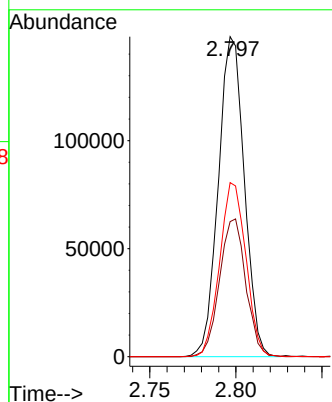
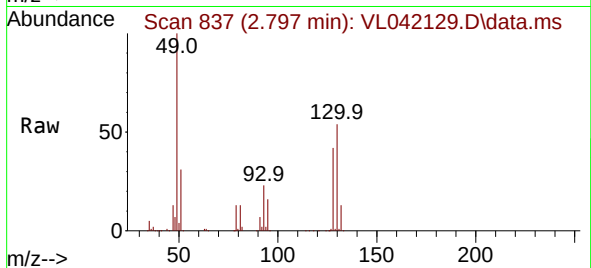




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL042129.D
Acq: 10 Mar 2025 17:20

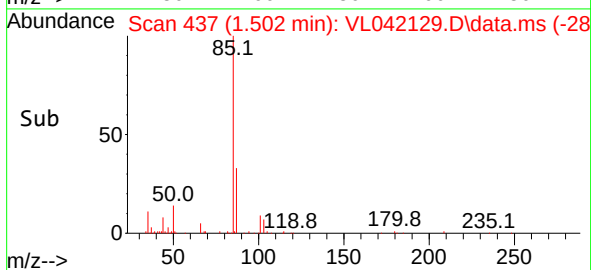
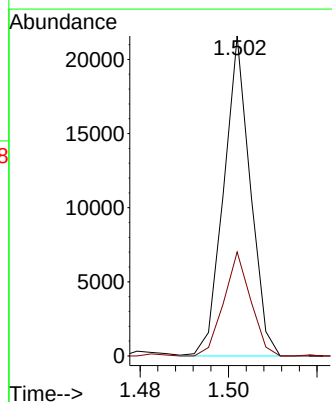
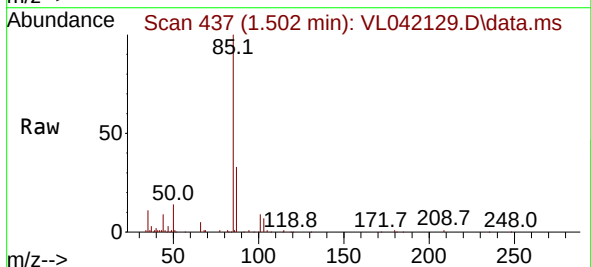
Instrument :
MSVOA_L
ClientSampleId :
IA1

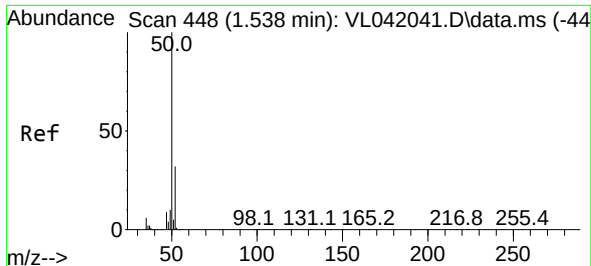
Tgt Ion: 49 Resp: 155742
Ion Ratio Lower Upper
49 100
128 43.5 21.6 64.8
130 55.0 27.8 83.4



#2
Dichlorodifluoromethane
Concen: 0.555 ppbv
RT: 1.502 min Scan# 437
Delta R.T. -0.000 min
Lab File: VL042129.D
Acq: 10 Mar 2025 17:20

Tgt Ion: 85 Resp: 8995
Ion Ratio Lower Upper
85 100
87 32.5 26.4 39.6

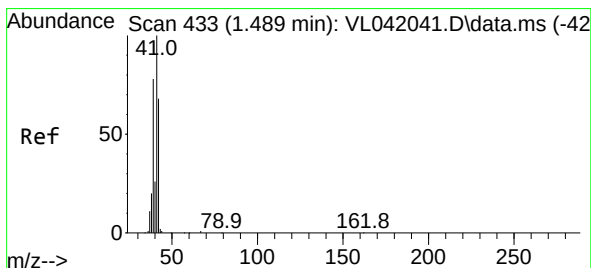
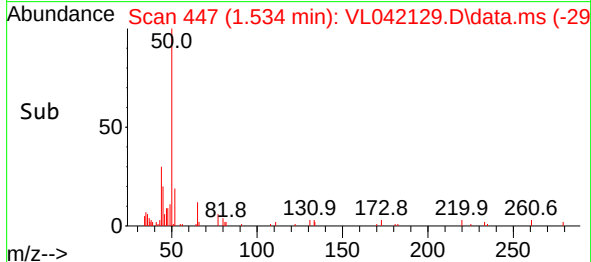
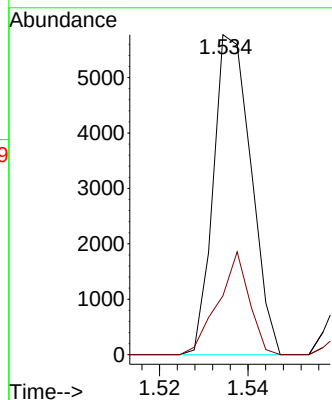
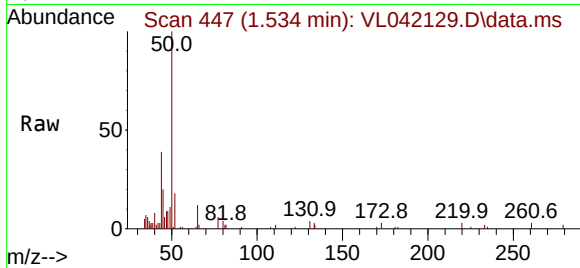




#4
Chloromethane
Concen: 0.570 ppbv
RT: 1.534 min Scan# 448
Delta R.T. -0.003 min
Lab File: VL042129.D
Acq: 10 Mar 2025 17:20

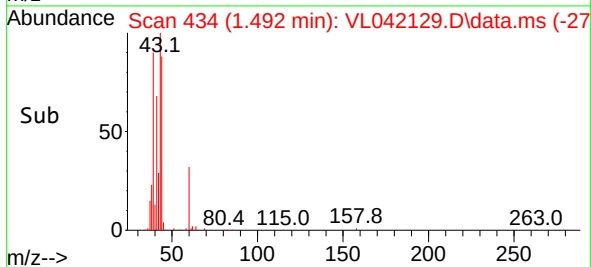
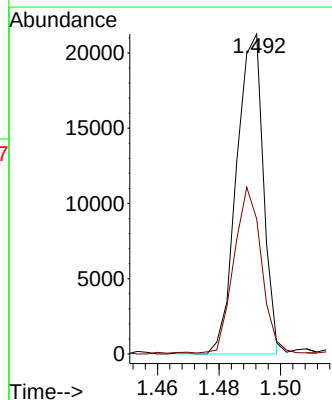
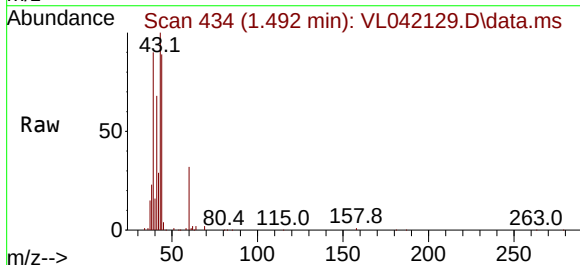
Instrument :
MSVOA_L
ClientSampleId :
IA1

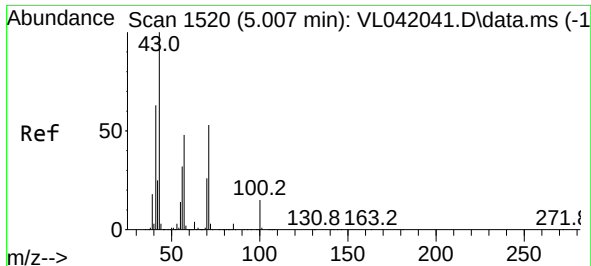
Tgt Ion: 50 Resp: 3411
Ion Ratio Lower Upper
50 100
52 18.4 25.4 38.0#



#9
Propene
Concen: 1.397 ppbv m
RT: 1.492 min Scan# 434
Delta R.T. 0.003 min
Lab File: VL042129.D
Acq: 10 Mar 2025 17:20

Tgt Ion: 41 Resp: 12884
Ion Ratio Lower Upper
41 100
42 122.6 55.8 83.6#

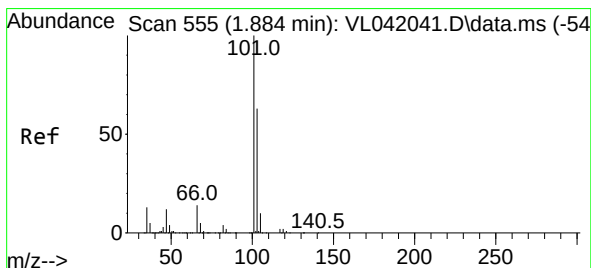
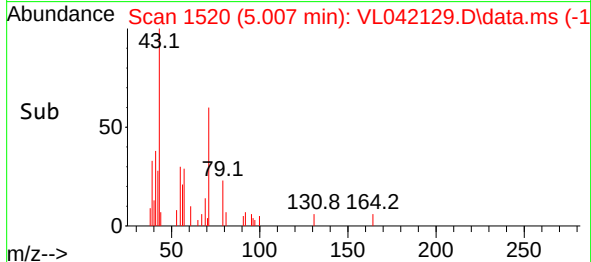
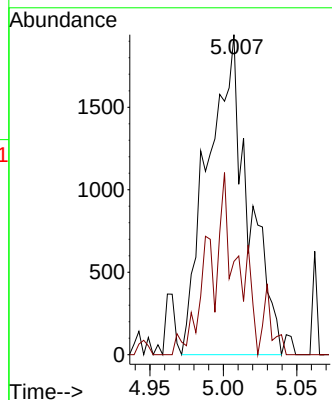
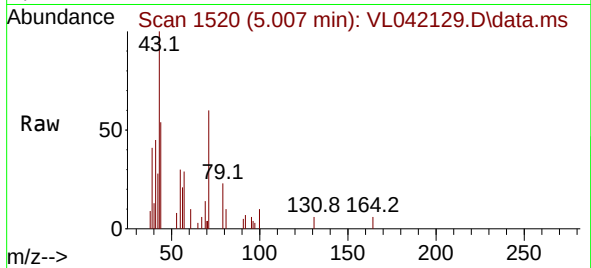




#10
Heptane
Concen: 0.129 ppbv m
RT: 5.007 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL042129.D
Acq: 10 Mar 2025 17:20

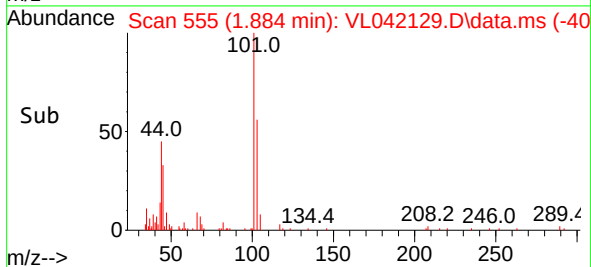
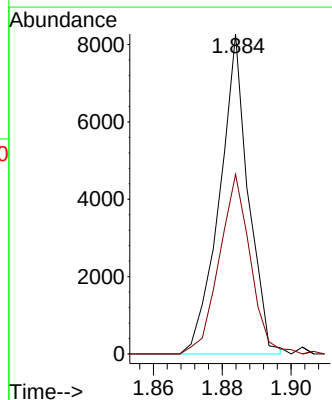
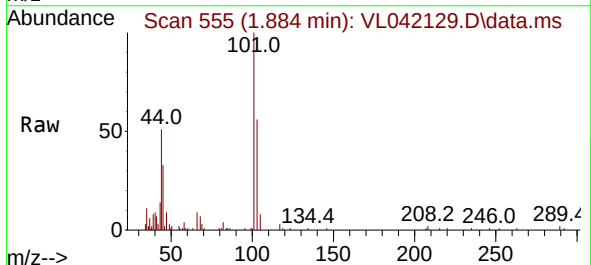
Instrument :
MSVOA_L
ClientSampleId :
IA1

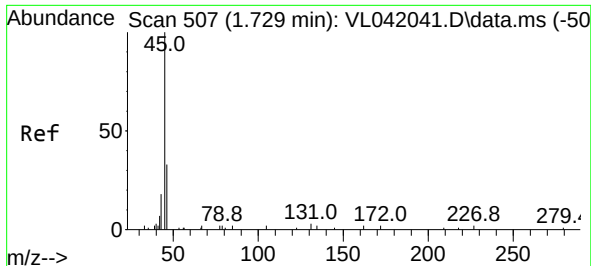
Tgt Ion: 43 Resp: 3718
Ion Ratio Lower Upper
43 100
57 44.7 39.4 59.0



#11
Trichlorofluoromethane
Concen: 0.296 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.000 min
Lab File: VL042129.D
Acq: 10 Mar 2025 17:20

Tgt Ion:101 Resp: 4807
Ion Ratio Lower Upper
101 100
103 56.1 50.6 75.8

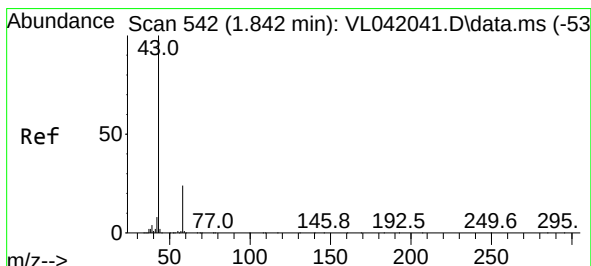
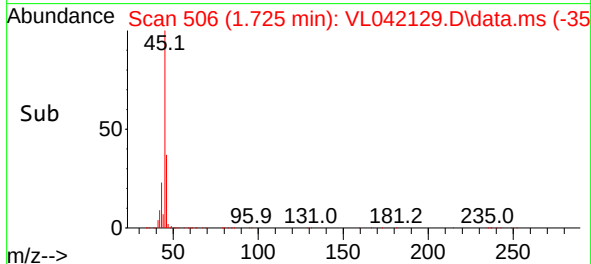
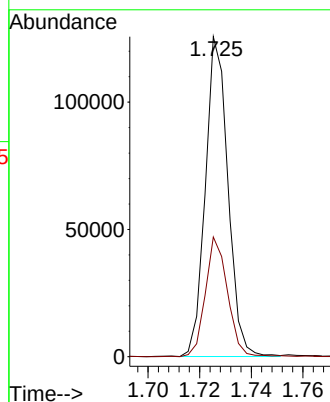
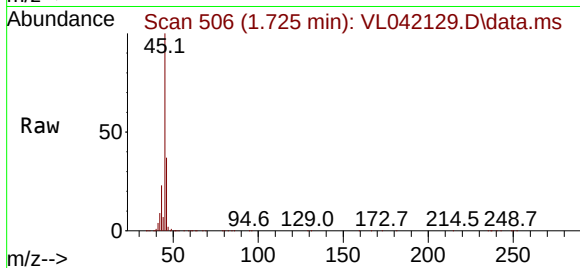




#13
Ethanol
Concen: 130.528 ppbv
RT: 1.725 min Scan# 507
Delta R.T. -0.003 min
Lab File: VL042129.D
Acq: 10 Mar 2025 17:20

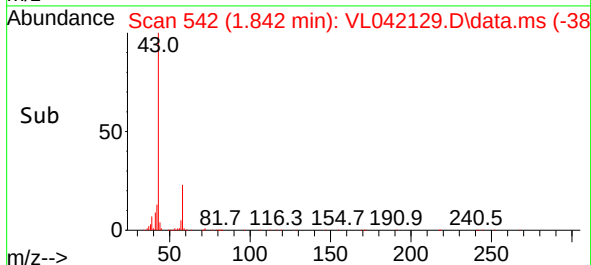
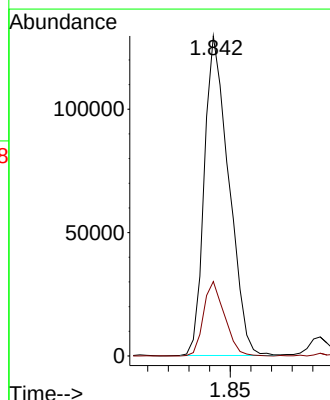
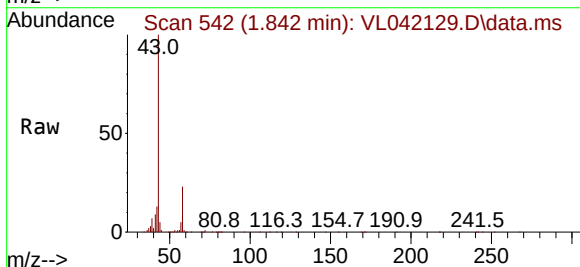
Instrument :
MSVOA_L
ClientSampleId :
IA1

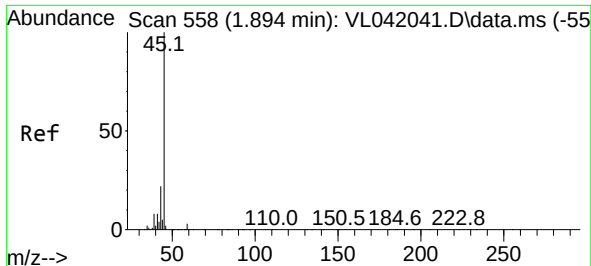
Tgt Ion: 45 Resp: 76408
Ion Ratio Lower Upper
45 100
46 37.1 17.1 68.3



#15
Acetone
Concen: 7.751 ppbv
RT: 1.842 min Scan# 542
Delta R.T. -0.000 min
Lab File: VL042129.D
Acq: 10 Mar 2025 17:20

Tgt Ion: 43 Resp: 106603
Ion Ratio Lower Upper
43 100
58 20.1 20.7 31.1#

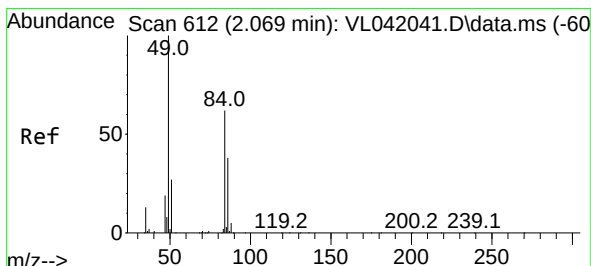
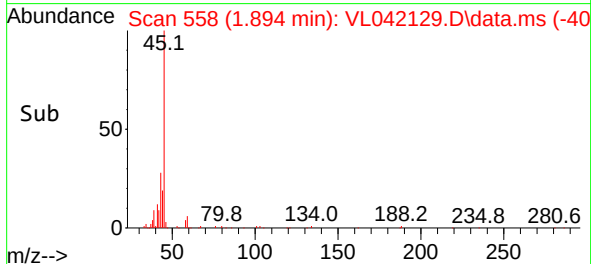
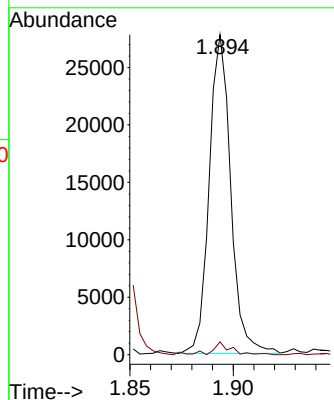
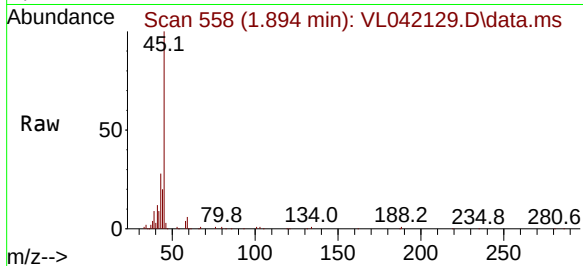




#19
Isopropyl Alcohol
Concen: 2.550 ppbv
RT: 1.894 min Scan# 558
Delta R.T. -0.000 min
Lab File: VL042129.D
Acq: 10 Mar 2025 17:20

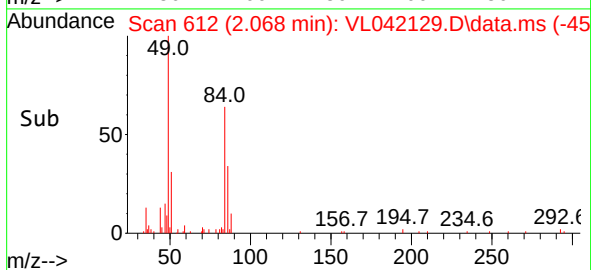
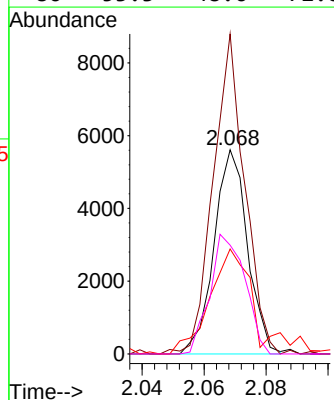
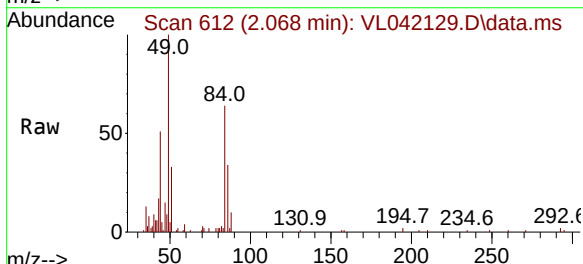
Instrument :
MSVOA_L
ClientSampleId :
IA1

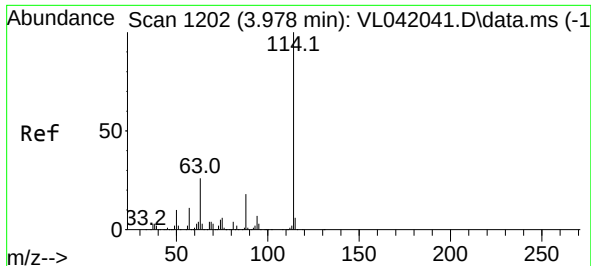
Tgt Ion: 45 Resp: 20146
Ion Ratio Lower Upper
45 100
58 106.8 35.3 52.9#



#20
Methylene Chloride
Concen: 0.808 ppbv
RT: 2.068 min Scan# 612
Delta R.T. -0.000 min
Lab File: VL042129.D
Acq: 10 Mar 2025 17:20

Tgt Ion: 84 Resp: 4206
Ion Ratio Lower Upper
84 100
49 156.7 130.0 195.0
51 45.0 37.4 56.0
86 53.3 48.6 72.8





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.975 min Scan# 11

Delta R.T. -0.003 min

Lab File: VL042129.D

Acq: 10 Mar 2025 17:20

Instrument :

MSVOA_L

ClientSampleId :

IA1

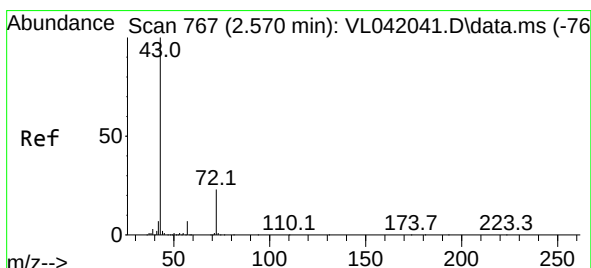
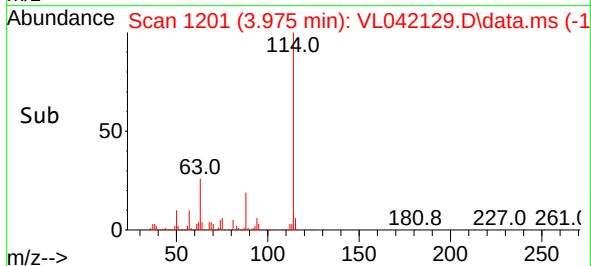
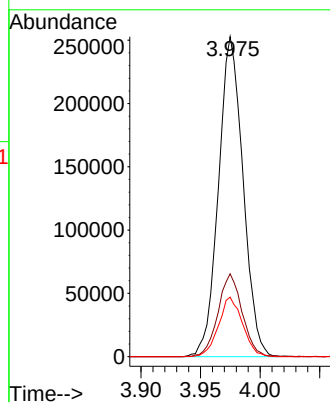
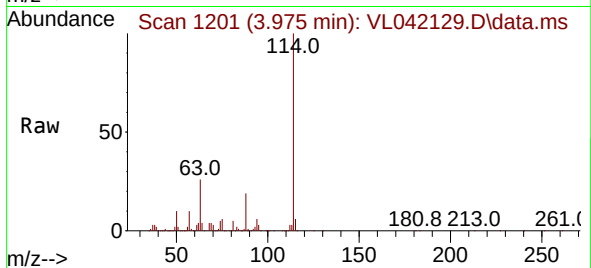
Tgt Ion:114 Resp: 361993

Ion Ratio Lower Upper

114 100

63 25.6 20.1 30.1

88 18.2 14.3 21.5



#34

2-Butanone

Concen: 0.262 ppbv

RT: 2.570 min Scan# 767

Delta R.T. -0.000 min

Lab File: VL042129.D

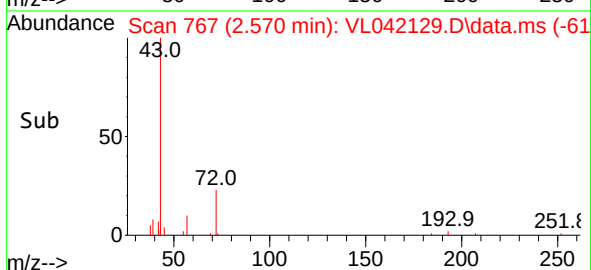
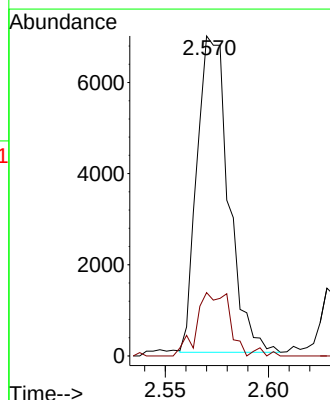
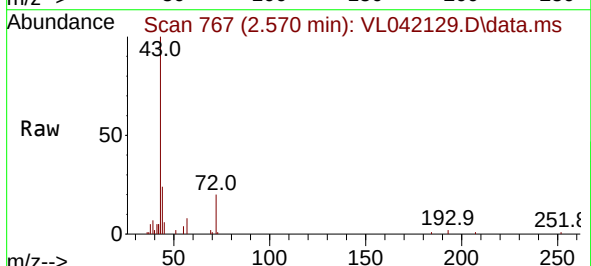
Acq: 10 Mar 2025 17:20

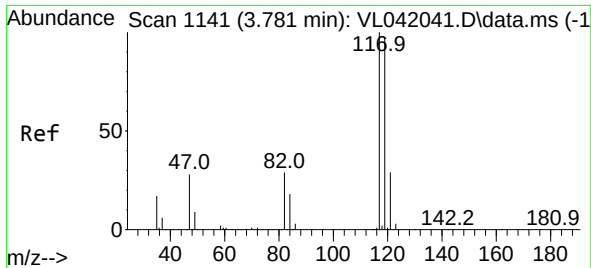
Tgt Ion: 43 Resp: 7380

Ion Ratio Lower Upper

43 100

72 21.5 18.5 27.7

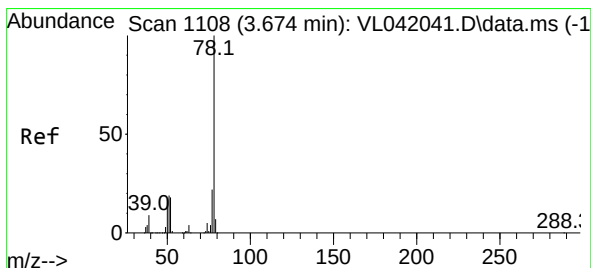
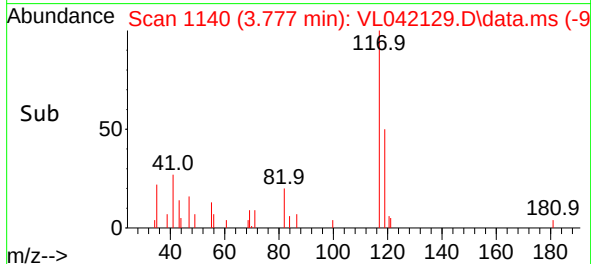
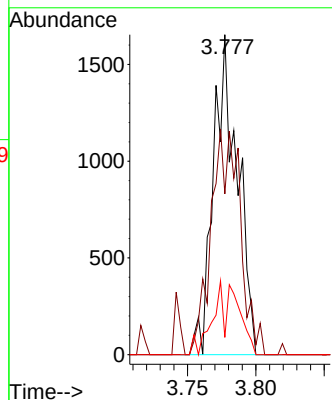
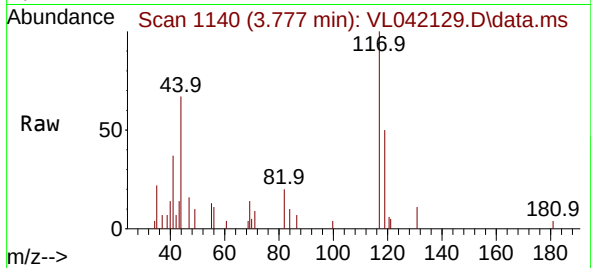




#35
Carbon Tetrachloride
Concen: 0.081 ppbv m
RT: 3.777 min Scan# 1141
Delta R.T. -0.003 min
Lab File: VL042129.D
Acq: 10 Mar 2025 17:20

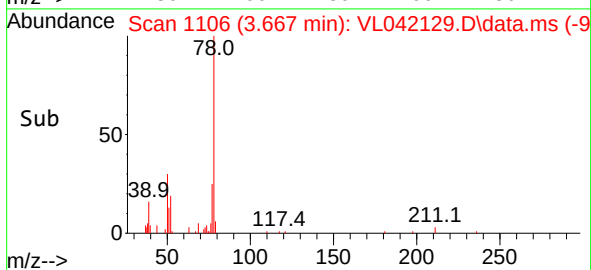
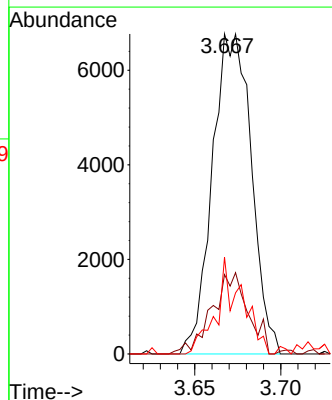
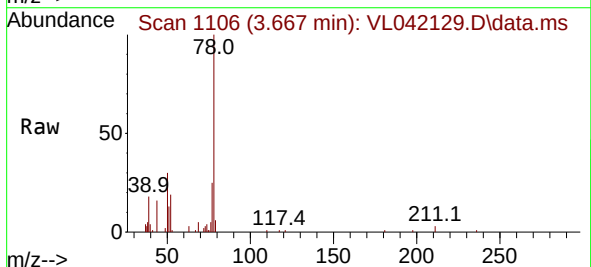
Instrument :
MSVOA_L
ClientSampleId :
IA1

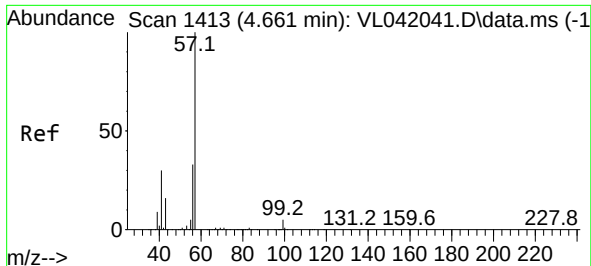
Tgt Ion:117 Resp: 2021
Ion Ratio Lower Upper
117 100
119 50.2 77.8 116.8#
121 5.4 23.4 35.0#



#36
Benzene
Concen: 0.282 ppbv
RT: 3.667 min Scan# 1106
Delta R.T. -0.007 min
Lab File: VL042129.D
Acq: 10 Mar 2025 17:20

Tgt Ion: 78 Resp: 10673
Ion Ratio Lower Upper
78 100
77 24.0 17.7 26.5
50 30.2 13.9 20.9#





#44

2,2,4-Trimethylpentane

Concen: 0.160 ppbv m

RT: 4.654 min Scan# 1411

Delta R.T. -0.007 min

Lab File: VL042129.D

Acq: 10 Mar 2025 17:20

Instrument :

MSVOA_L

ClientSampleId :

IA1

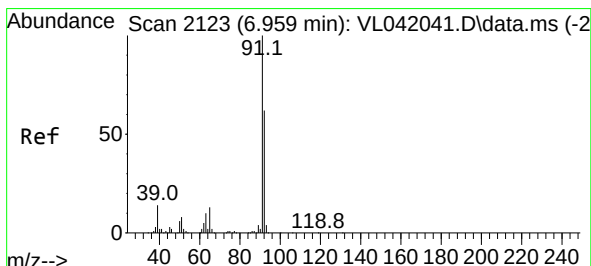
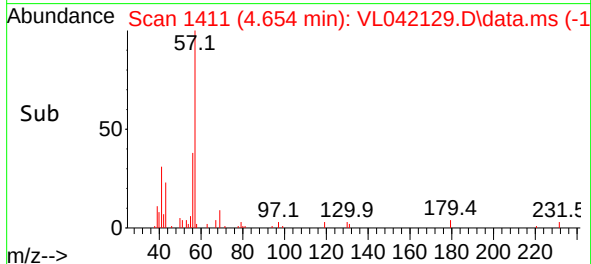
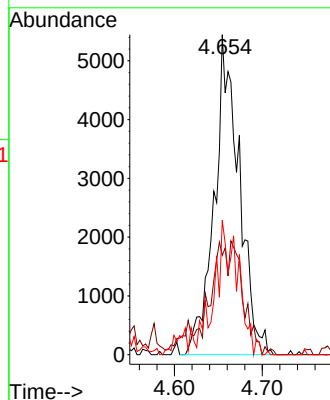
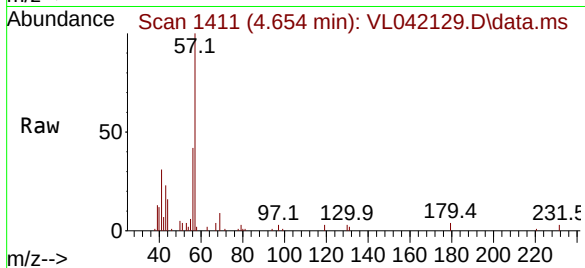
Tgt Ion: 57 Resp: 10669

Ion Ratio Lower Upper

57 100

41 0.0 24.4 36.6#

56 44.2 26.5 39.7#



#53

Toluene

Concen: 0.535 ppbv m

RT: 6.952 min Scan# 2121

Delta R.T. -0.007 min

Lab File: VL042129.D

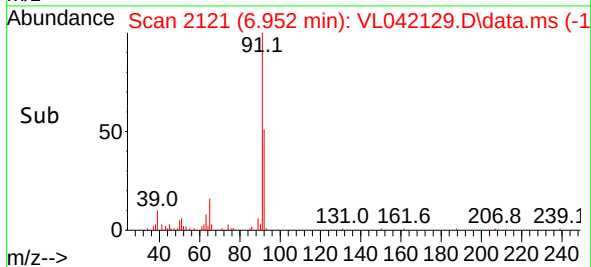
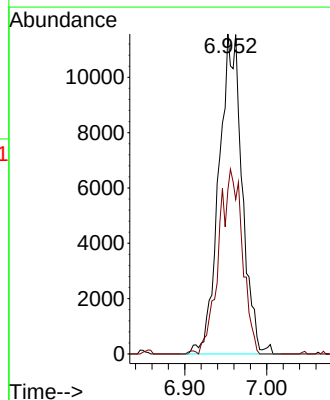
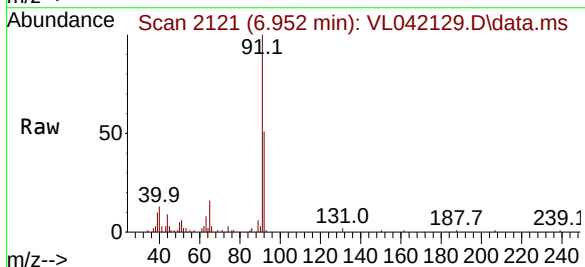
Acq: 10 Mar 2025 17:20

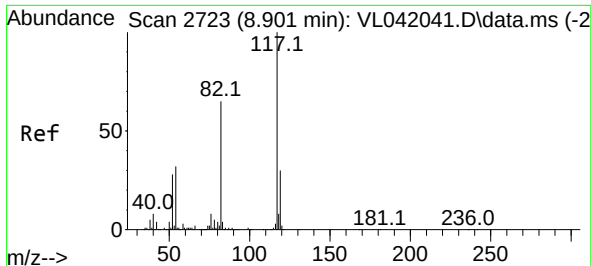
Tgt Ion: 91 Resp: 22652

Ion Ratio Lower Upper

91 100

92 59.0 49.0 73.6

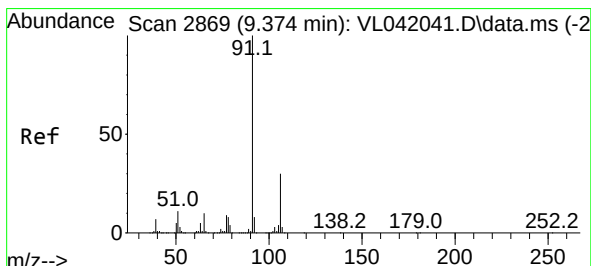
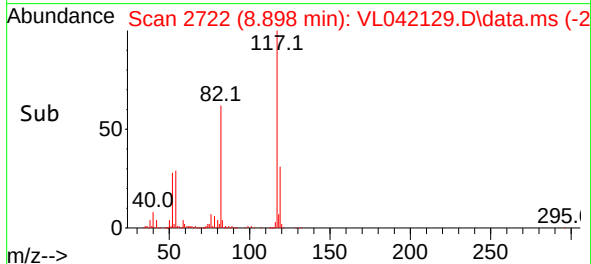
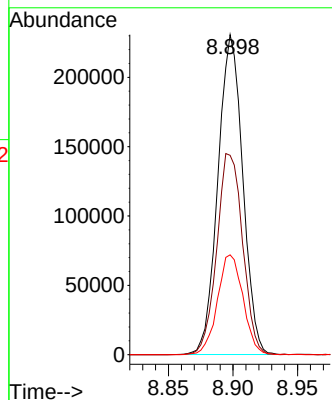
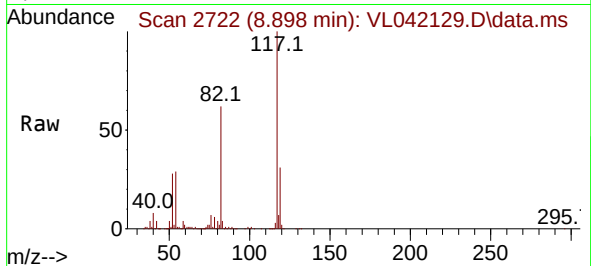




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.898 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042129.D
Acq: 10 Mar 2025 17:20

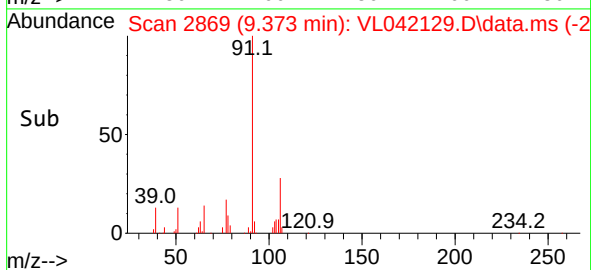
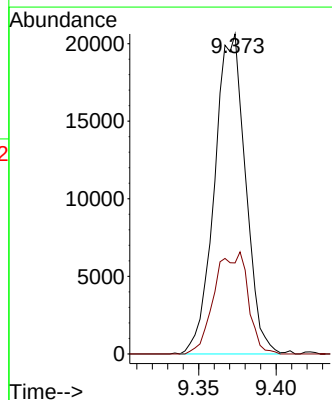
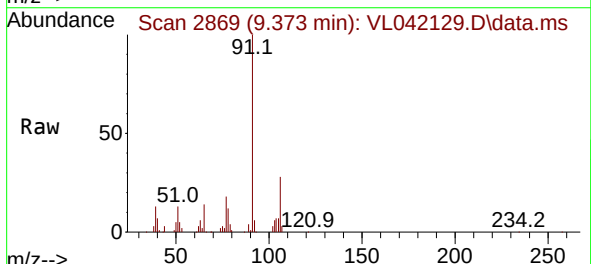
Instrument :
MSVOA_L
ClientSampleId :
IA1

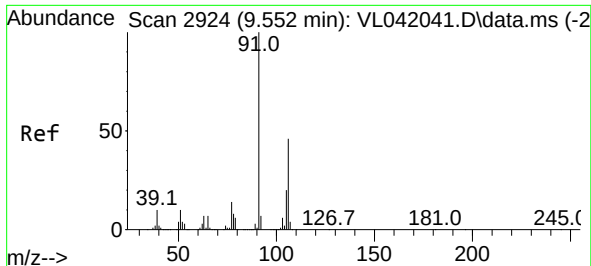
Tgt Ion:117 Resp: 308529
Ion Ratio Lower Upper
117 100
82 65.4 55.0 82.6
119 32.2 25.9 38.9



#58
Ethyl Benzene
Concen: 0.504 ppbv
RT: 9.373 min Scan# 2869
Delta R.T. -0.000 min
Lab File: VL042129.D
Acq: 10 Mar 2025 17:20

Tgt Ion: 91 Resp: 28623
Ion Ratio Lower Upper
91 100
106 28.5 24.2 36.2





#59

m/p-Xylene

Concen: 4.423 ppbv

RT: 9.548 min Scan# 2924

Delta R.T. -0.003 min

Lab File: VL042129.D

Acq: 10 Mar 2025 17:20

Instrument :

MSVOA_L

ClientSampleId :

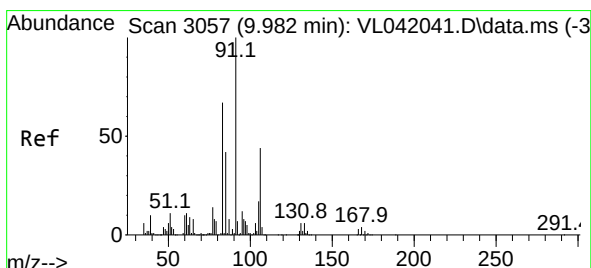
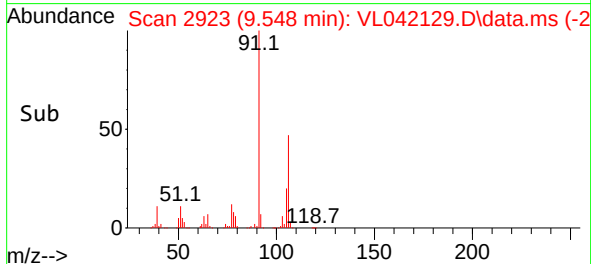
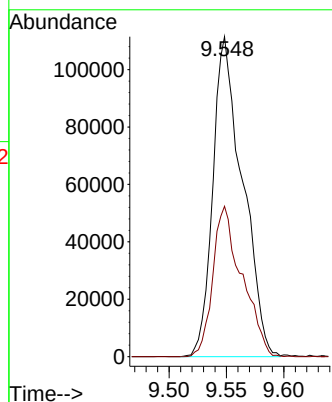
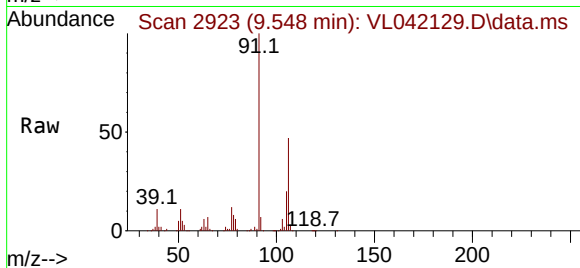
IA1

Tgt Ion: 91 Resp: 200012

Ion Ratio Lower Upper

91 100

106 46.2 0.0 0.0#



#60

o-Xylene

Concen: 1.256 ppbv

RT: 9.979 min Scan# 3056

Delta R.T. -0.003 min

Lab File: VL042129.D

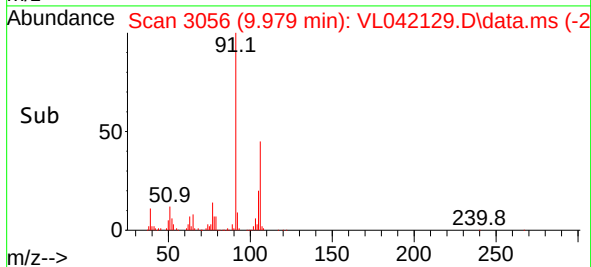
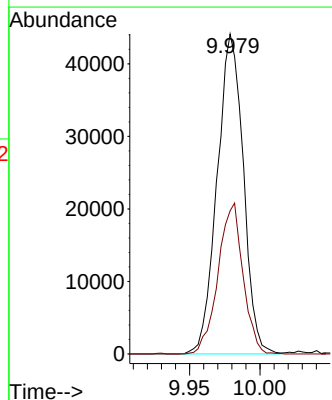
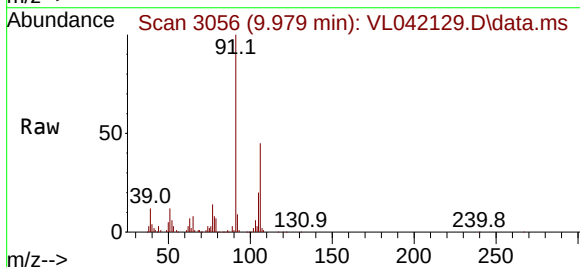
Acq: 10 Mar 2025 17:20

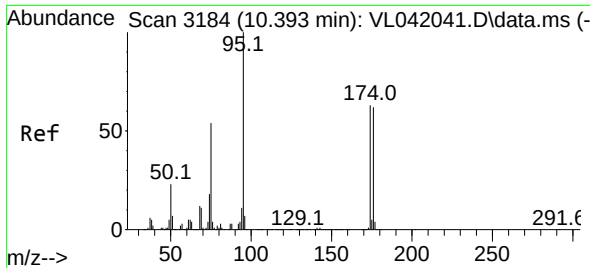
Tgt Ion: 91 Resp: 57106

Ion Ratio Lower Upper

91 100

106 44.9 22.3 66.8





#68

1-Bromo-4-Fluorobenzene

Concen: 10.918 ppbv

RT: 10.390 min Scan# 31

Delta R.T. -0.003 min

Lab File: VL042129.D

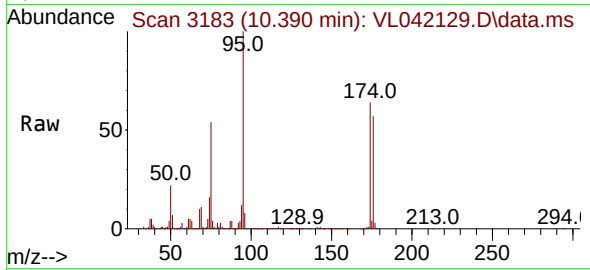
Acq: 10 Mar 2025 17:20

Instrument :

MSVOA_L

ClientSampleId :

IA1



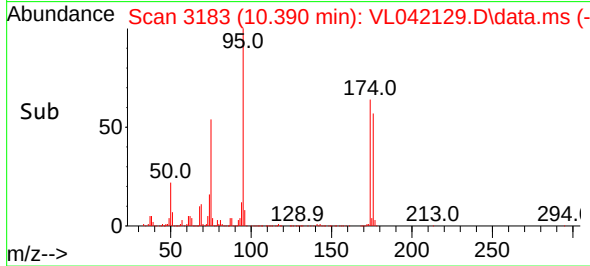
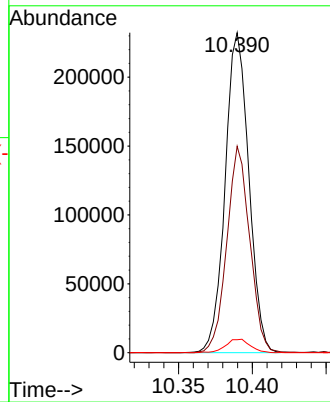
Tgt Ion: 95 Resp: 259167

Ion Ratio Lower Upper

95 100

174 62.6 51.8 77.6

175 4.4 3.9 5.9





CALIBRATION SUMMARY

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: GFEL01
 Lab Code: CHEM Case No.: Q1506 SAS No.: Q1506 SDG No.: Q1506
 Instrument ID: MSVOA_L Calibration Date(s): 02/25/2025 02/25/2025
 Heated Purge: (Y/N) N Calibration Time(s): 08:56 12:07
 GC Column: RTX-1 ID: 0.32 (mm)

LAB FILE ID:		RRF010 = VL042041.D		RRF002 = VL042042.D		RRF001 = VL042043.D		
		RRF0.5 = VL042044.D		RRF0.1 = VL042045.D		RRF.03 = VL042046.D		
COMPOUND	RRF010	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	RRF	% RSD
Vinyl Chloride	0.337	0.361	0.346	0.376	0.336	0.447	0.364	10.9
1,1-Dichloroethene	0.320	0.386	0.437	0.398			0.376	12.6
cis-1,2-Dichloroethene	1.237	1.450	1.401	1.421			1.353	7.3
1,1,1-Trichloroethane	1.771	1.944	1.916	1.883	1.875	1.921	1.866	4.1
Trichloroethene	0.378	0.447	0.447	0.433	0.462	0.447	0.427	8.1
Tetrachloroethene	0.327	0.385	0.383	0.380	0.374	0.322	0.358	7.9
1-Bromo-4-Fluorobenzene	0.764	0.765	0.777	0.768	0.760	0.773	0.769	0.9

* 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 : VL022525AIR.M

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

Last Update : Wed Feb 26 01:08:36 2025

Response Via : Initial Calibration

Calibration Files

0.03=VL042046.D 0.1 =VL042045.D 0.5 =VL042044.D 1 =VL042043.D 2 =VL042042.D 10 =VL042041.D 15 =VL042047.D

Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD

1) I Bromochloromethane	-----ISTD-----								
2) T Dichlorodifluo...			1.109	1.084	1.091	0.943	0.973	1.040	7.31
3) Chlorodifluoro...			1.493	1.566	1.535	1.311	1.362	1.453	7.67
4) Chloromethane			0.438	0.398	0.399	0.344	0.344	0.385	10.53
5) T Vinyl Chloride	0.447	0.336	0.376	0.346	0.361	0.337	0.343	0.364	10.89
6) T Bromomethane			0.170	0.184	0.186	0.160	0.165	0.173	6.63
7) Chloroethane			0.151	0.158	0.156	0.135	0.140	0.148	6.83
8) T Dichlorotetra...			0.892	0.910	0.901	0.779	0.791	0.855	7.47
9) T Propene			0.614	0.630	0.636	0.522	0.558	0.592	8.47
10) T Heptane			1.971	1.946	1.960	1.662	1.679	1.844	8.59
11) T Trichlorofluor...			1.056	1.122	1.119	0.944	0.968	1.042	7.98
12) T 1,1,2-Trichlor...			0.919	0.902	0.865	0.697	0.773	0.831	11.28
13) Ethanol			0.053	0.057	0.040	0.020	0.018	0.038#	48.50
14) T Bromoethene			0.325	0.304	0.299	0.264	0.275	0.293	8.41
15) T Acetone			1.084	0.960	0.933	0.714	0.723	0.883	18.17
16) T 1,3-Butadiene			0.476	0.435	0.418	0.358	0.367	0.411	11.96
17) tert-Butyl alc...			1.184	1.185	1.201	0.950	1.004	1.105	10.71
18) T 1,1-Dichloroet...			0.398	0.437	0.386	0.320	0.338	0.376	12.57
19) T Isopropyl Alcohol			0.561	0.571	0.557	0.419	0.429	0.507	15.06
20) T Methylene Chlo...			0.429	0.374	0.329	0.261	0.278	0.334	20.72
21) T Allyl Chloride			0.707	0.717	0.639	0.538	0.590	0.638	11.94
22) T trans-1,2-Dich...			0.481	0.506	0.450	0.358	0.395	0.438	13.90
23) T Vinyl Acetate			0.689	0.614	0.695	0.520	0.586	0.621	11.82
24) T 1,1-Dichloroet...			0.927	0.856	0.863	0.669	0.758	0.815	12.42
25) T Ethyl Acetate			3.833	3.674	3.776	3.174	3.217	3.535	8.91
26) T Hexane			1.596	1.462	1.519	1.282	1.287	1.429	9.83
27) T Carbon Disulfide			1.042	0.972	1.032	0.856	0.942	0.969	7.78
28) T Methyl tert-Bu...			0.650	0.844	0.838	0.522	0.705	0.711	19.02
29) T Chloroform			2.165	2.044	1.971	1.722	1.716	1.923	10.36
30) T Cyclohexane			1.154	1.239	1.255	1.076	1.076	1.160	7.39
31) T cis-1,2-Dichlo...			1.421	1.401	1.450	1.237	1.255	1.353	7.33
32) T 1,1,1-Trichlor...	1.921	1.875	1.883	1.916	1.944	1.771	1.751	1.866	4.05

33) I 1,4-Difluorobenzene	-----ISTD-----								
34) T 2-Butanone			0.833	0.799	0.812	0.692	0.759	0.779	7.15
35) T Carbon Tetrach...	0.664	0.705	0.675	0.723	0.725	0.655	0.681	0.690	4.09
36) T Benzene			1.079	1.084	1.104	0.969	0.999	1.047	5.66
37) T 1,2-Dichloroet...			0.624	0.604	0.598	0.520	0.556	0.580	7.20
38) T Trichloroethene	0.447	0.462	0.433	0.447	0.447	0.378	0.379	0.427	8.06
39) T 1,2-Dichloropr...			0.421	0.415	0.414	0.357	0.379	0.397	7.02

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\ Method File : VL022525AIR.M											
40)	T	1,4-Dioxane			0.192	0.196	0.181	0.164	0.173	0.181	7.31
41)	T	Tetrahydrofuran			0.469	0.492	0.473	0.418	0.450	0.460	6.04
42)	T	Bromodichlorom...			0.806	0.791	0.810	0.739	0.765	0.782	3.81
43)		Methyl Methacr...			0.400	0.418	0.426	0.392	0.409	0.409	3.35
44)	T	2,2,4-Trimethy...			1.928	1.935	1.955	1.670	1.750	1.848	6.99
45)	T	t-1,3-Dichloro...			0.414	0.392	0.418	0.393	0.414	0.406	3.12
46)	T	cis-1,3-Dichlo...			0.514	0.523	0.548	0.516	0.526	0.526	2.59
47)	T	1,1,2-Trichlor...			0.426	0.429	0.426	0.361	0.375	0.403	8.12
48)	T	Dibromochlorom...			0.618	0.667	0.667	0.594	0.613	0.632	5.25
49)	T	Bromoform			0.553	0.551	0.588	0.525	0.526	0.549	4.68
50)	T	4-Methyl-2-Pen...			0.996	0.974	0.975	1.014	1.079	1.008	4.27
51)	T	2-Hexanone			0.577	0.570	0.608	0.834	0.879	0.693	21.69
52)	T	Tetrachloroethene	0.322	0.374	0.380	0.383	0.385	0.327	0.337	0.358	7.88
53)	T	Toluene			1.150	1.210	1.284	1.088	1.118	1.170	6.67
54)	T	1,2-Dibromoethane		0.563	0.556	0.553	0.586	0.500	0.514	0.545	5.87
-----ISTD-----											
55)	I	Chlorobenzene-d5									
56)		1,1,1,2-Tetrac...			0.607	0.596	0.595	0.505	0.524	0.565	8.37
57)	T	Chlorobenzene			1.102	1.113	1.121	0.910	0.938	1.037	10.02
58)	T	Ethyl Benzene			1.886	1.906	1.974	1.694	1.749	1.842	6.31
59)	T	m/p-Xylene			1.488	1.550	1.580	1.330	1.380	1.466	7.35
60)	T	o-Xylene			1.572	1.550	1.577	1.317	1.351	1.473	8.68
61)	T	Styrene			0.659	0.719	0.738	0.658	0.690	0.693	5.18
62)		Isopropylbenzene			2.299	2.339	2.399	1.969	2.026	2.207	8.84
63)	T	1,1,2,2-Tetrac...	0.999	0.975	1.026	1.041	1.031	0.848	0.872	0.970	8.13
64)		n-propylbenzene			0.596	0.607	0.632	0.524	0.535	0.579	8.11
65)		tert-Butylbenzene			2.080	2.251	2.222	1.733	1.753	2.008	12.47
66)	T	Benzyl Chloride			0.141	0.159	0.163	0.153	0.150	0.153	5.40
67)		sec-Butylbenzene			2.973	3.229	3.182	2.482	2.494	2.872	12.65
68)	S	1-Bromo-4-Fluo...	0.773	0.760	0.768	0.777	0.765	0.764	0.779	0.769	0.92
69)		p-Isopropyltol...			2.240	2.533	2.575	2.021	2.056	2.285	11.38
70)		n-Butylbenzene			2.332	2.567	2.572	2.070	2.120	2.332	10.20
71)		2-Chlorotoluene			1.758	1.829	1.853	1.514	1.551	1.701	9.30
72)	T	4-Ethyltoluene			1.775	1.944	1.985	1.621	1.670	1.799	8.99
73)	T	1,3,5-Trimethy...			1.592	1.732	1.696	1.381	1.400	1.560	10.47
74)	T	1,2,4-Trimethy...			1.855	1.982	1.990	1.471	1.488	1.757	14.76
75)	T	1,3-Dichlorobe...			1.112	1.110	1.083	0.869	0.882	1.011	12.30
76)	T	1,4-Dichlorobe...			1.120	1.061	1.092	0.861	0.886	1.004	12.07
77)	T	1,2-Dichlorobe...			1.059	1.097	1.063	0.836	0.852	0.981	12.88
78)	T	Hexachloro-1,3...			0.840	0.832	0.844	0.637	0.666	0.764	13.53
79)	T	Naphthalene		0.841	0.978	1.237	1.352	1.371	1.450	1.205	20.15
80)	T	Naphthalene,2-...			0.090	0.142	0.240	0.562	0.615	0.330	73.74
81)	T	1,2,4-Trichlor...			0.589	0.687	0.765	0.644	0.673	0.671	9.58

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042041.D
 Acq On : 25 Feb 2025 08:56
 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 :Mahesh Dadoda 03/06/2025
 Supervised By :Semsettin Yesilyurt 03/06/2025

Quant Time: Feb 25 10:10:59 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

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

QLast Update : Tue Feb 18 00:13:37 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.800	49	161135	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.978	114	422655	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.901	117	374249	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.393 95 285943 9.263 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 92.600%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	152005	5.480	ppbv	99
3) Chlorodifluoromethane	1.479	51	211185	6.887	ppbv	96
4) Chloromethane	1.538	50	55364	5.136	ppbv	98
5) Vinyl Chloride	1.586	62	54228	4.207	ppbv	98
6) Bromomethane	1.674	94	25846	5.173	ppbv	90
7) Chloroethane	1.709	64	21717	5.169	ppbv	96
8) Dichlorotetrafluoroethane	1.560	85	125595	5.147	ppbv	94
9) Propene	1.489	41	84038	6.357	ppbv	97
10) Heptane	5.007	43	267860	7.296	ppbv	97
11) Trichlorofluoromethane	1.884	101	152112	5.449	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.146	101	112374	5.162	ppbv	93
13) Ethanol	1.729	45	3178	2.131	ppbv	85
14) Bromoethene	1.787	108	42461	5.223	ppbv	99
15) Acetone	1.842	43	115085	4.327	ppbv	95
16) 1,3-Butadiene	1.615	39	57707	4.574	ppbv	100
17) tert-Butyl alcohol	2.049	59	153073	4.651	ppbv	100
18) 1,1-Dichloroethene	2.043	96	51534	4.954	ppbv	95
19) Isopropyl Alcohol	1.894	45	67445	4.522	ppbv	98
20) Methylene Chloride	2.069	84	41998	4.195	ppbv	94
21) Allyl Chloride	2.104	41	86723	4.504	ppbv	99
22) trans-1,2-Dichloroethene	2.350	96	57617	5.104	ppbv	96
23) Vinyl Acetate	2.473	43	83866	5.823	ppbv	98
24) 1,1-Dichloroethane	2.418	63	107817	4.704	ppbv	100
25) Ethyl Acetate	2.852	43	511505	7.007	ppbv	99
26) Hexane	2.839	57	206577	7.052	ppbv	98
27) Carbon Disulfide	2.159	76	137978	5.008	ppbv	97
28) Methyl tert-Butyl Ether	2.450	73	84091	4.696	ppbv	98
29) Chloroform	2.862	83	277411	6.538	ppbv	96
30) Cyclohexane	3.875	84	173351	7.295	ppbv	98
31) cis-1,2-Dichloroethene	2.732	61	199354	6.886	ppbv	98
32) 1,1,1-Trichloroethane	3.383	97	285335	6.064	ppbv	98
34) 2-Butanone	2.570	43	292449	8.043	ppbv	100
35) Carbon Tetrachloride	3.781	117	276677	6.741	ppbv	97
36) Benzene	3.674	78	409501	7.999	ppbv	98
37) 1,2-Dichloroethane	3.234	62	219829	7.543	ppbv	100
38) Trichloroethene	4.570	130	159933	7.689	ppbv	93
39) 1,2-Dichloropropane	4.337	63	151036	8.047	ppbv	99
40) 1,4-Dioxane	4.609	88	69399	7.105	ppbv #	76
41) Tetrahydrofuran	3.072	42	176830	8.509	ppbv	95
42) Bromodichloromethane	4.512	83	312250	7.908	ppbv	97
43) Methyl Methacrylate	4.907	69	165494	7.091	ppbv	97
44) 2,2,4-Trimethylpentane	4.661	57	705920	8.122	ppbv	97
45) t-1,3-Dichloropropene	6.444	75	166207	7.544	ppbv	91

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042041.D
 Acq On : 25 Feb 2025 08:56
 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 :Mahesh Dadoda 03/06/2025
 Supervised By :Semsettin Yesilyurt 03/06/2025

Quant Time: Feb 25 10:10:59 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

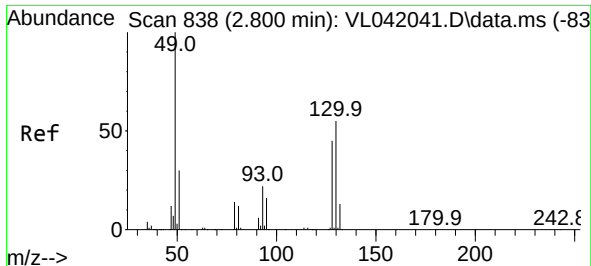
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Tue Feb 18 00:13:37 2025

Response via : Initial Calibration

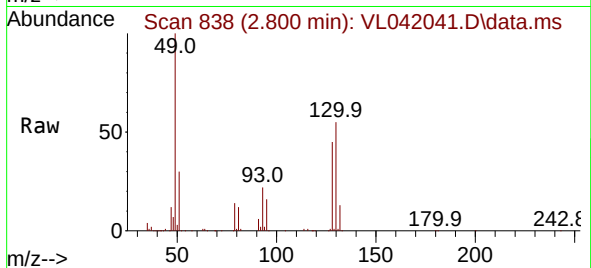
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.629	75	218294	7.809	ppbv	99
47) 1,1,2-Trichloroethane	6.610	97	152556	7.723	ppbv	97
48) Dibromochloromethane	7.412	129	251213	7.593	ppbv	99
49) Bromoform	9.503	173	222057	8.183	ppbv	98
50) 4-Methyl-2-Pentanone	5.787	43	428434	7.666	ppbv	100
51) 2-Hexanone	7.464	43	352331	7.709	ppbv #	96
52) Tetrachloroethene	8.244	164	138263	7.743	ppbv	94
53) Toluene	6.959	91	460041	7.541	ppbv	97
54) 1,2-Dibromoethane	7.678	107	211395	7.772	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.943	131	188811	7.049	ppbv	97
57) Chlorobenzene	8.940	112	340525	7.735	ppbv	97
58) Ethyl Benzene	9.374	91	633939	7.739	ppbv	98
59) m/p-Xylene	9.552	91	995259m	15.427	ppbv	
60) o-Xylene	9.982	91	493069	7.557	ppbv	97
61) Styrene	9.888	104	246161	7.912	ppbv	98
62) Isopropylbenzene	10.555	105	736884	7.522	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.979	83	317313	7.538	ppbv	100
64) n-propylbenzene	11.005	120	196044	8.145	ppbv	90
65) tert-Butylbenzene	11.545	119	648698	7.596	ppbv	97
66) Benzyl Chloride	11.630	91	57345	6.699	ppbv #	97
67) sec-Butylbenzene	11.782	105	928863	7.744	ppbv	99
69) p-Isopropyltoluene	11.940	119	756264	7.702	ppbv	98
70) n-Butylbenzene	12.296	91	774646	8.009	ppbv	99
71) 2-Chlorotoluene	10.918	91	566619	7.681	ppbv	97
72) 4-Ethyltoluene	11.141	105	606538	7.934	ppbv	98
73) 1,3,5-Trimethylbenzene	11.219	105	516875	7.838	ppbv	100
74) 1,2,4-Trimethylbenzene	11.552	105	550412	7.777	ppbv	98
75) 1,3-Dichlorobenzene	11.623	146	325160	8.535	ppbv	97
76) 1,4-Dichlorobenzene	11.685	146	322404	8.678	ppbv	97
77) 1,2-Dichlorobenzene	11.963	146	312942	8.593	ppbv	96
78) Hexachloro-1,3-Butadiene	13.895	225	238217	7.907	ppbv	100
79) Naphthalene	13.526	128	513192	7.372	ppbv	99
80) Naphthalene,2-methyl-	14.471	142	210405	6.676	ppbv	95
81) 1,2,4-Trichlorobenzene	13.455	180	241031	8.517	ppbv	99

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 838
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

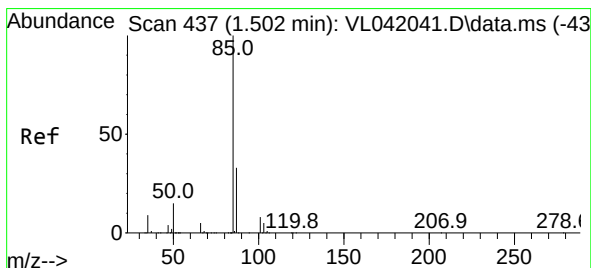
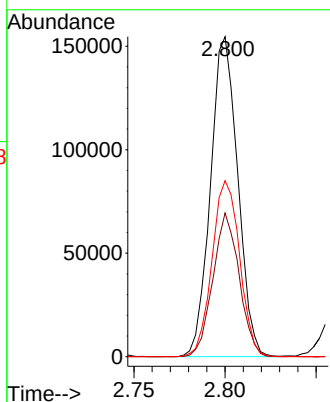
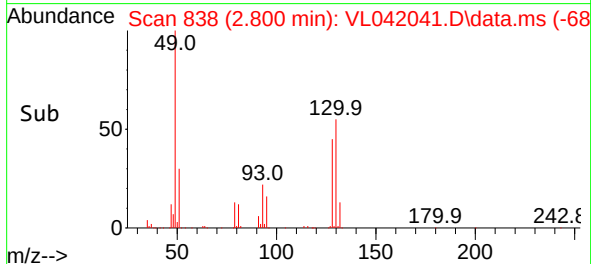
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



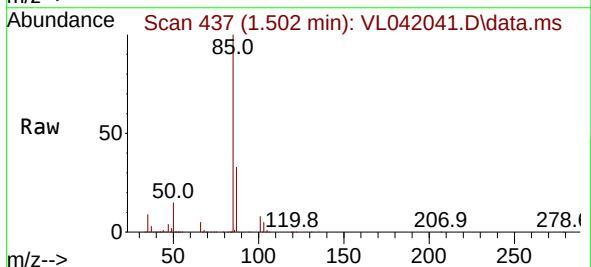
Tgt Ion: 49 Resp: 161135
Ion Ratio Lower Upper
49 100
128 43.2 22.7 68.0
130 55.6 29.9 89.8

Manual Integrations
APPROVED

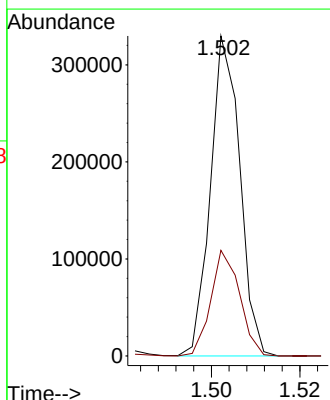
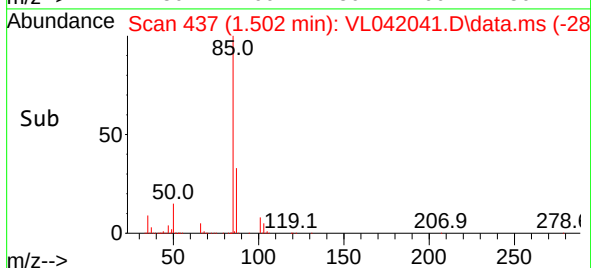
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025

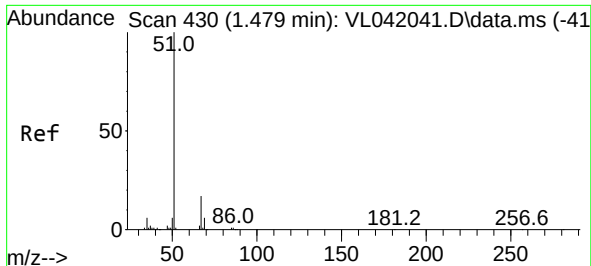


#2
Dichlorodifluoromethane
Concen: 5.480 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56



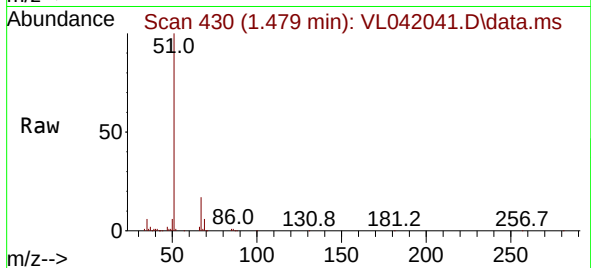
Tgt Ion: 85 Resp: 152005
Ion Ratio Lower Upper
85 100
87 33.0 26.9 40.3





#3
Chlorodifluoromethane
Concen: 6.887 ppbv
RT: 1.479 min Scan# 430
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

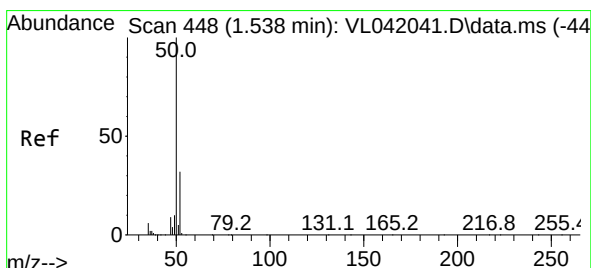
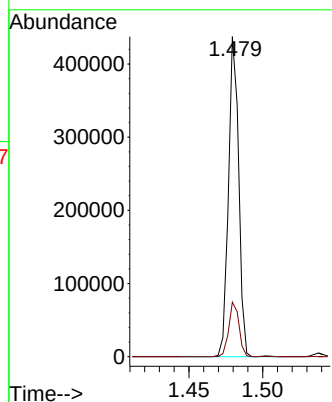
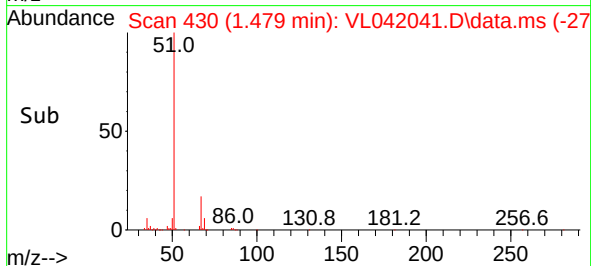
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



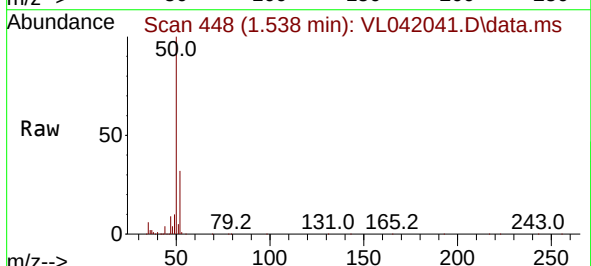
Tgt Ion: 51 Resp: 21118
Ion Ratio Lower Upper
51 100
67 17.1 15.0 22.6

Manual Integrations
APPROVED

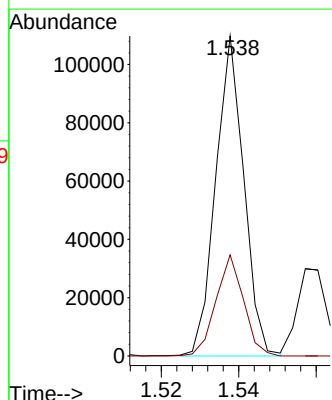
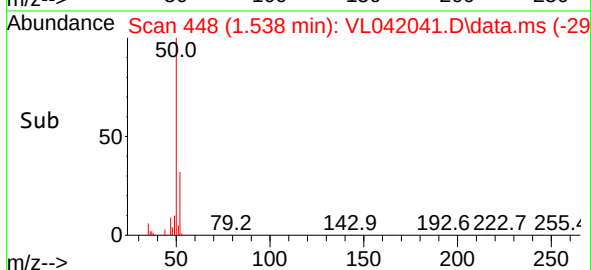
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025

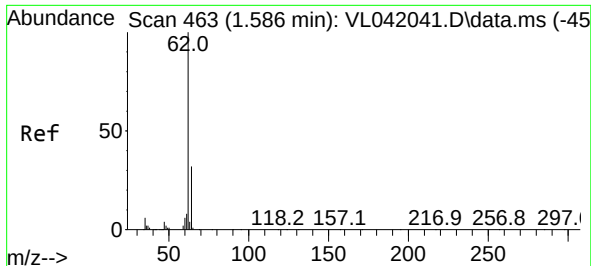


#4
Chloromethane
Concen: 5.136 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56



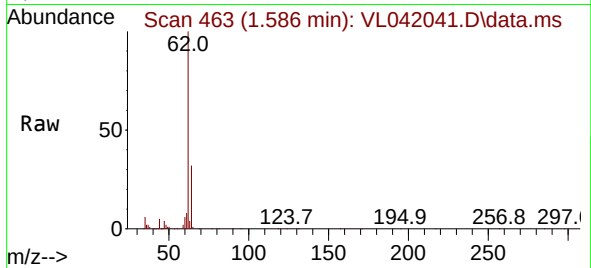
Tgt Ion: 50 Resp: 55364
Ion Ratio Lower Upper
50 100
52 31.7 26.2 39.2





#5
 Vinyl Chloride
 Concen: 4.207 ppbv
 RT: 1.586 min Scan# 463
 Delta R.T. 0.000 min
 Lab File: VL042041.D
 Acq: 25 Feb 2025 08:56

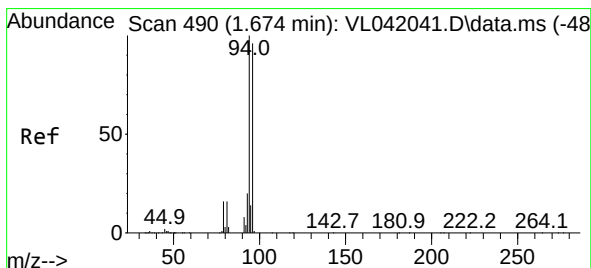
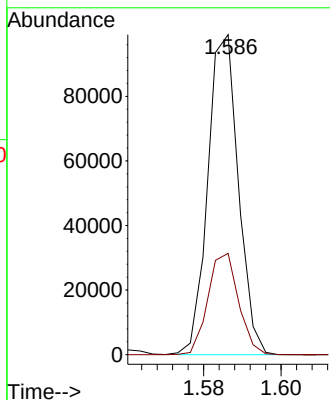
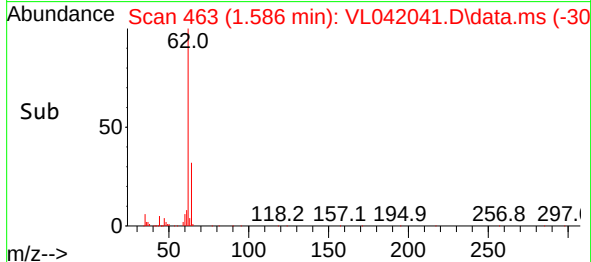
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010



Tgt Ion: 62 Resp: 54228
 Ion Ratio Lower Upper
 62 100
 64 31.6 24.4 36.6

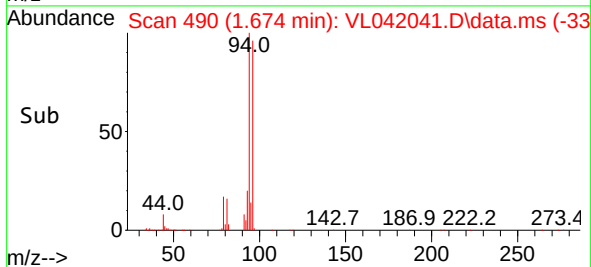
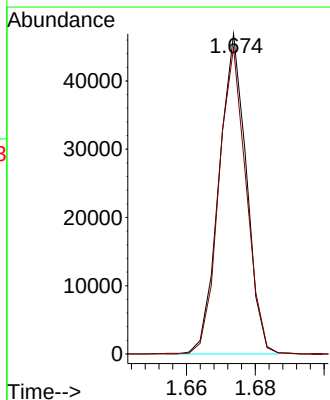
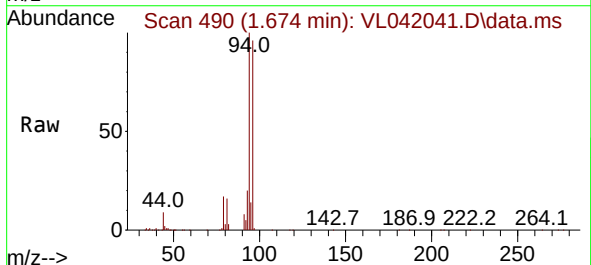
Manual Integrations
 APPROVED

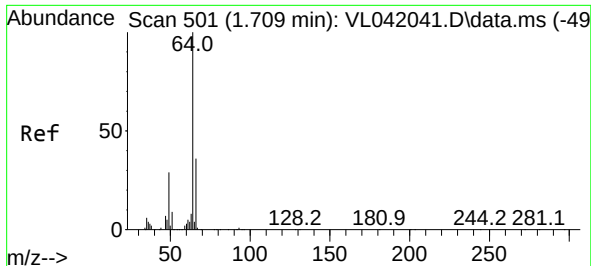
Reviewed By :Mahesh Dadoda 03/06/2025
 Supervised By :Semsettin Yesilyurt 03/06/2025



#6
 Bromomethane
 Concen: 5.173 ppbv
 RT: 1.674 min Scan# 490
 Delta R.T. 0.000 min
 Lab File: VL042041.D
 Acq: 25 Feb 2025 08:56

Tgt Ion: 94 Resp: 25846
 Ion Ratio Lower Upper
 94 100
 96 95.6 69.0 103.6





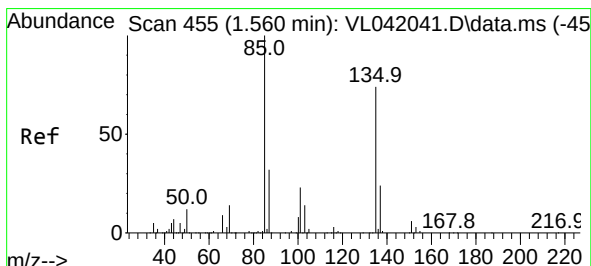
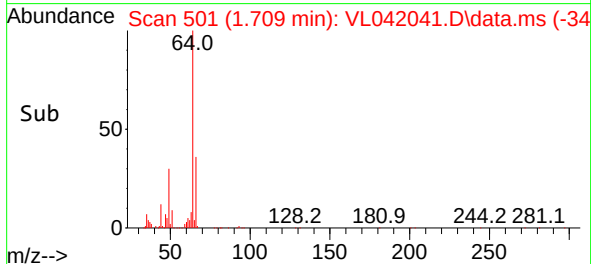
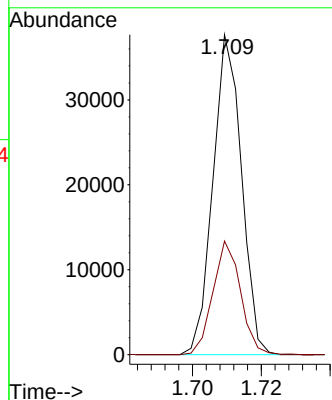
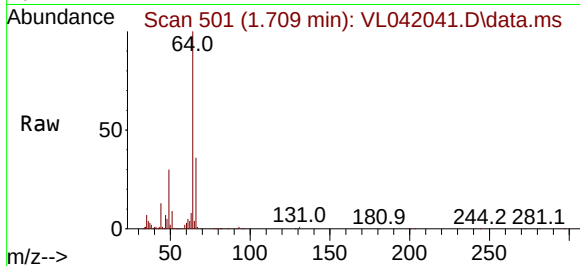
#7
Chloroethane
Concen: 5.169 ppbv
RT: 1.709 min Scan# 501
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 64 Resp: 2171
Ion Ratio Lower Upper
64 100
66 35.5 26.5 39.7

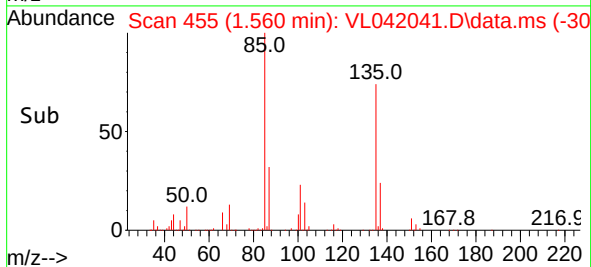
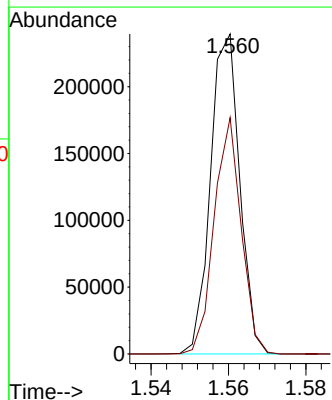
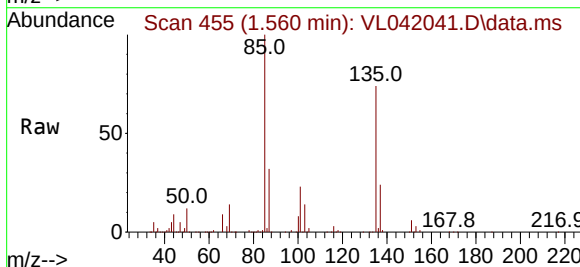
Manual Integrations
APPROVED

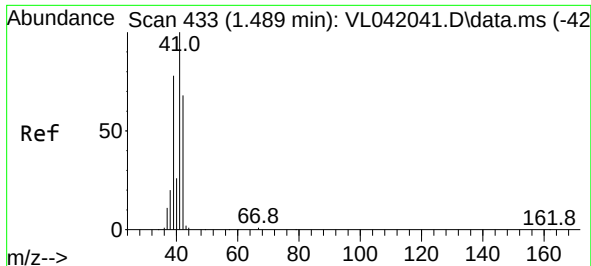
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025



#8
Dichlorotetrafluoroethane
Concen: 5.147 ppbv
RT: 1.560 min Scan# 455
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

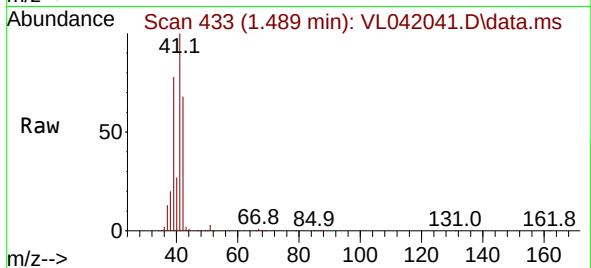
Tgt Ion: 85 Resp: 125595
Ion Ratio Lower Upper
85 100
135 68.2 50.9 76.3





#9
Propene
Concen: 6.357 ppbv
RT: 1.489 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

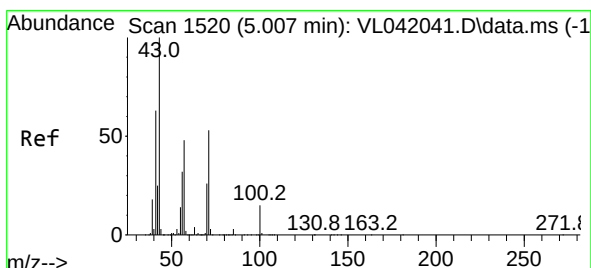
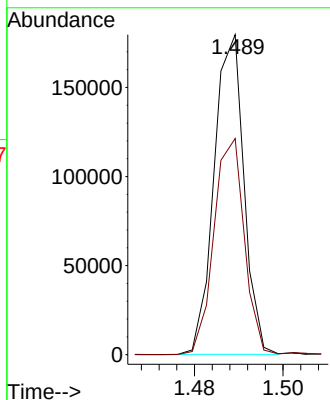
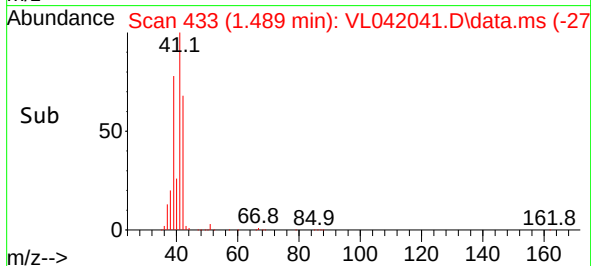
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



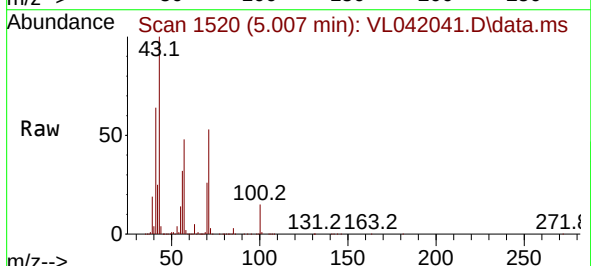
Tgt Ion: 41 Resp: 84038
Ion Ratio Lower Upper
41 100
42 69.7 53.5 80.3

Manual Integrations
APPROVED

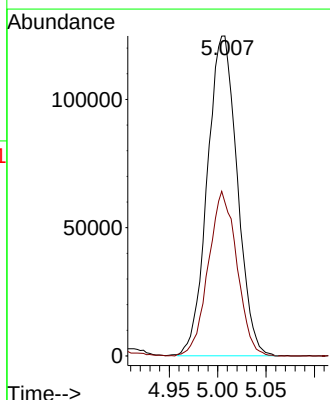
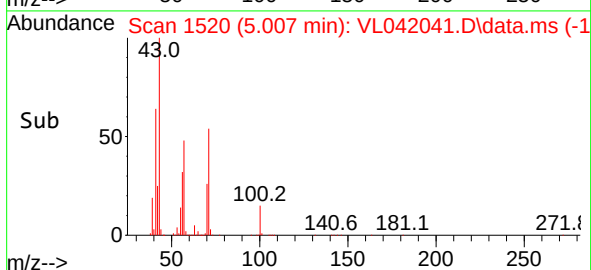
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025

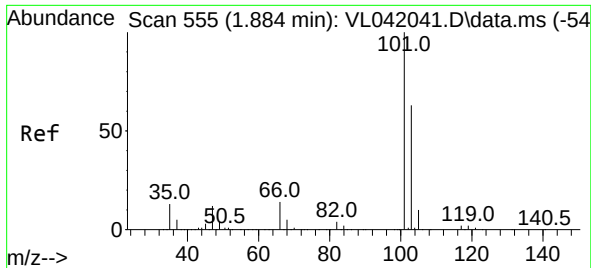


#10
Heptane
Concen: 7.296 ppbv
RT: 5.007 min Scan# 1520
Delta R.T. 0.003 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56



Tgt Ion: 43 Resp: 267860
Ion Ratio Lower Upper
43 100
57 49.2 41.0 61.6





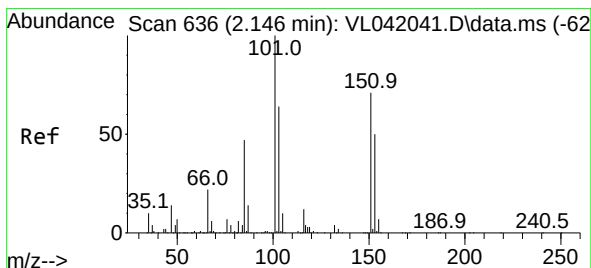
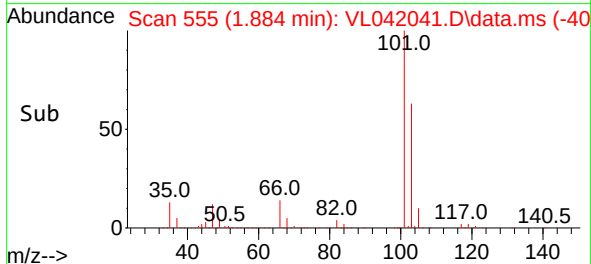
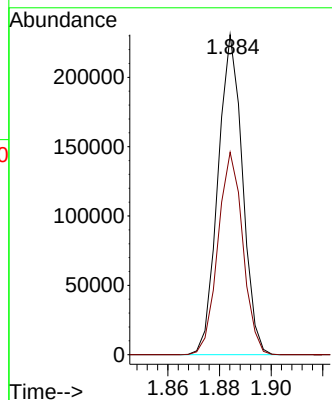
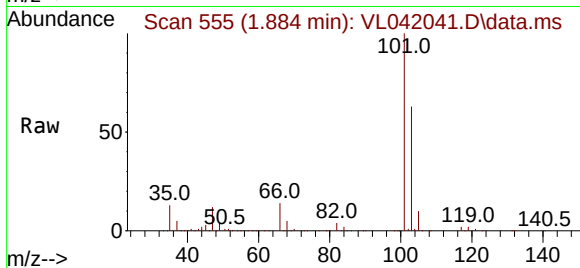
#11
Trichlorofluoromethane
Concen: 5.449 ppbv
RT: 1.884 min Scan# 511
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:101 Resp: 15211
Ion Ratio Lower Upper
101 100
103 63.2 52.9 79.3

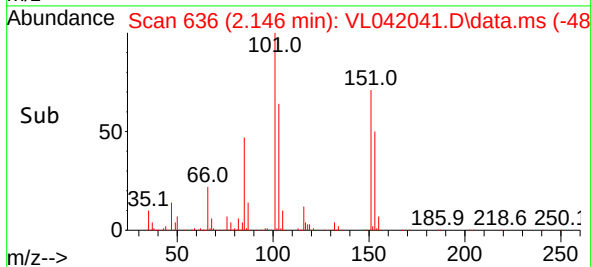
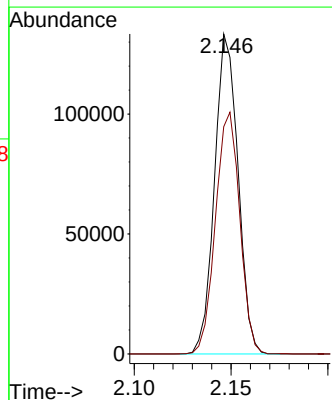
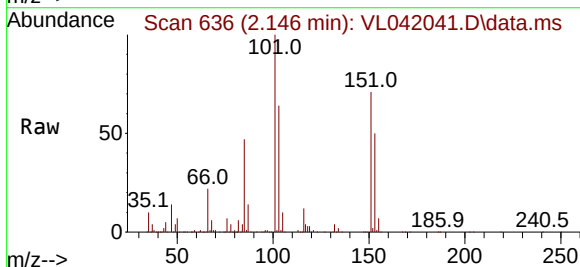
Manual Integrations
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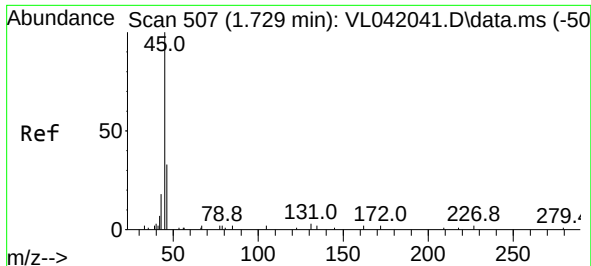
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025



#12
1,1,2-Trichlorotrifluoroethane
Concen: 5.162 ppbv
RT: 2.146 min Scan# 636
Delta R.T. -0.003 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

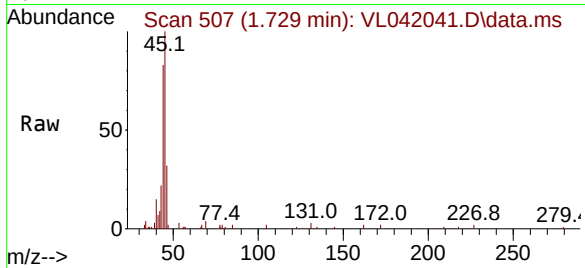
Tgt Ion:101 Resp: 112374
Ion Ratio Lower Upper
101 100
151 78.3 58.2 87.2





#13
Ethanol
Concen: 2.131 ppbv
RT: 1.729 min Scan# 507
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

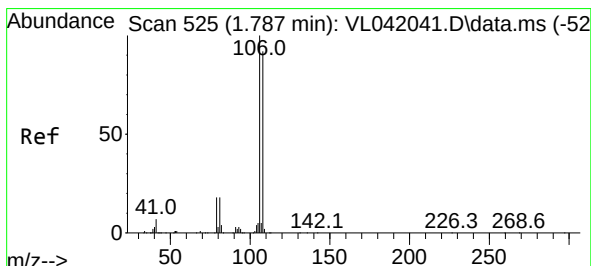
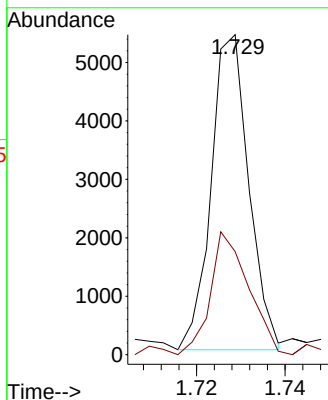
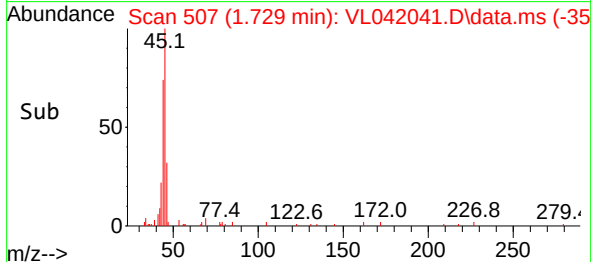
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



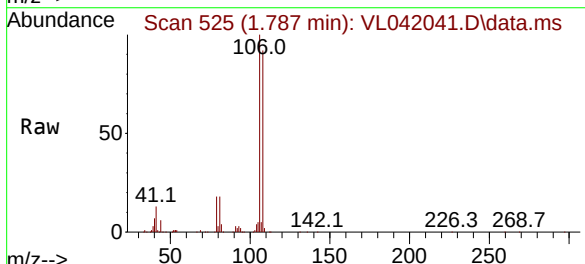
Tgt Ion: 45 Resp: 3178
Ion Ratio Lower Upper
45 100
46 42.7 21.3 85.1

Manual Integrations
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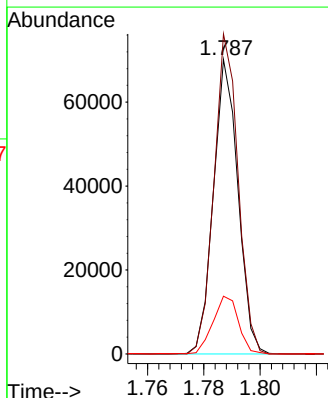
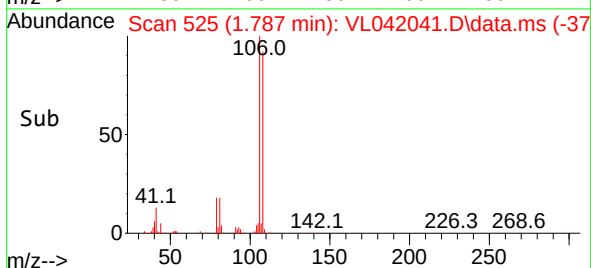
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025

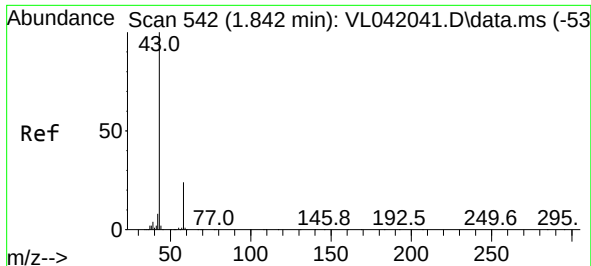


#14
Bromoethene
Concen: 5.223 ppbv
RT: 1.787 min Scan# 525
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56



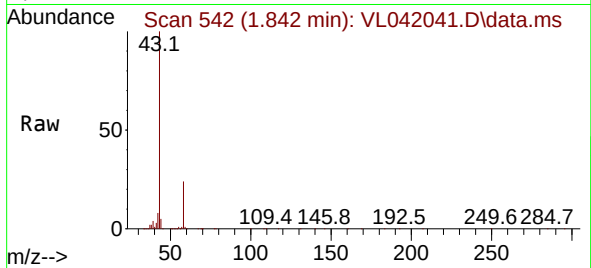
Tgt Ion:108 Resp: 42461
Ion Ratio Lower Upper
108 100
106 106.7 85.0 127.6
79 20.6 17.3 25.9





#15
Acetone
Concen: 4.327 ppbv
RT: 1.842 min Scan# 542
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

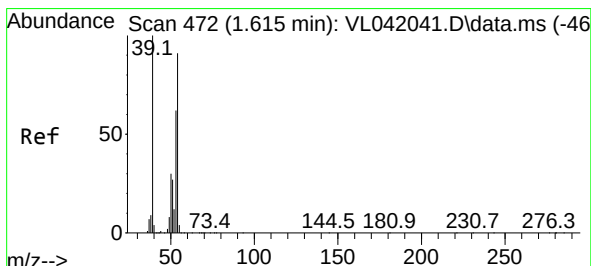
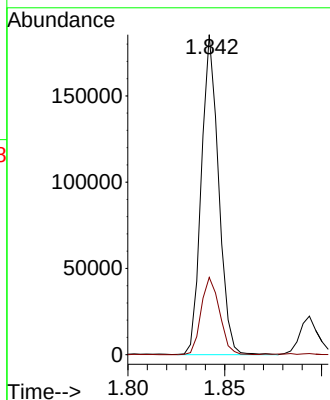
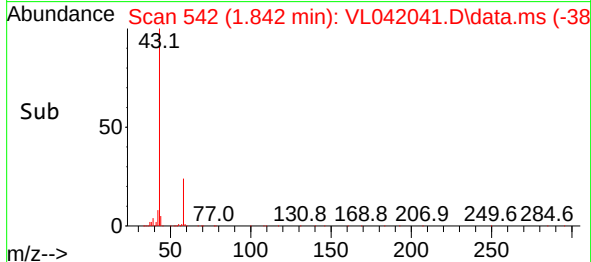
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 43 Resp: 115085
Ion Ratio Lower Upper
43 100
58 25.9 22.9 34.3

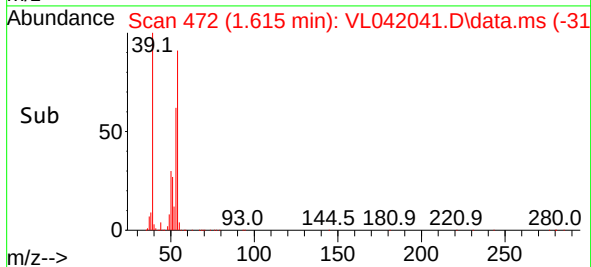
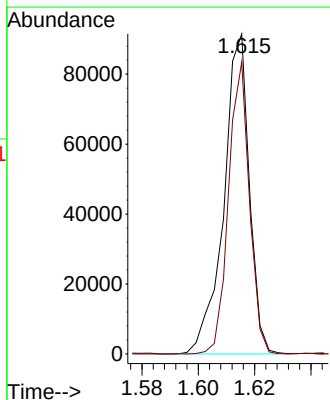
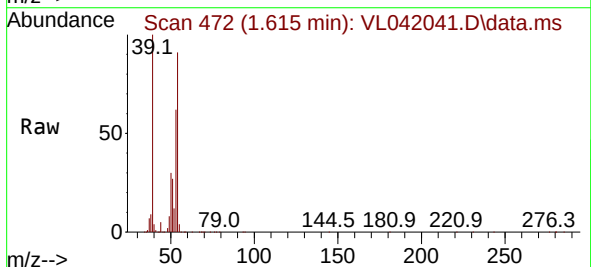
Manual Integrations
APPROVED

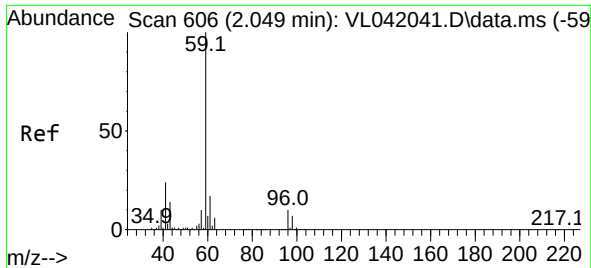
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025



#16
1,3-Butadiene
Concen: 4.574 ppbv
RT: 1.615 min Scan# 472
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

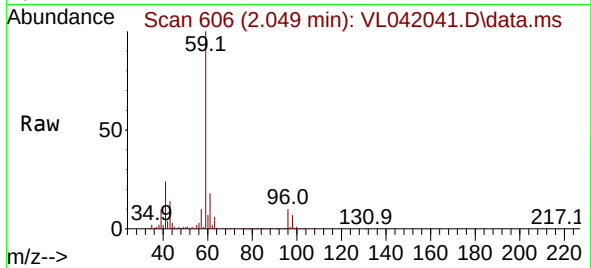
Tgt Ion: 39 Resp: 57707
Ion Ratio Lower Upper
39 100
54 74.5 59.4 89.2





#17
tert-Butyl alcohol
Concen: 4.651 ppbv
RT: 2.049 min Scan# 606
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

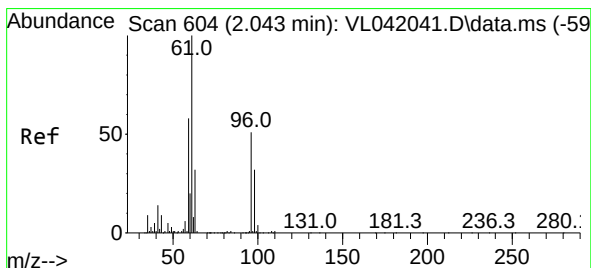
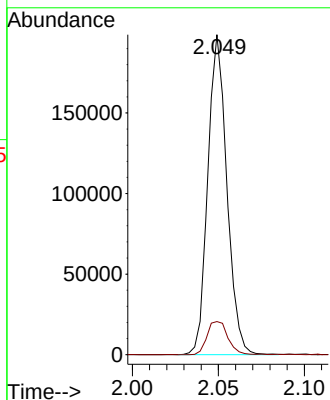
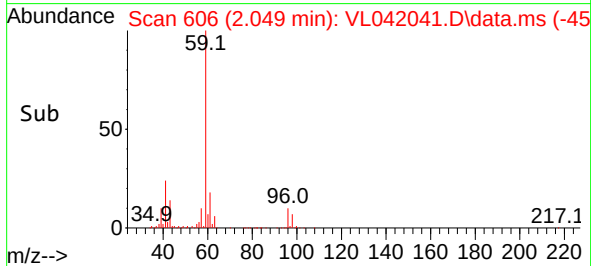
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



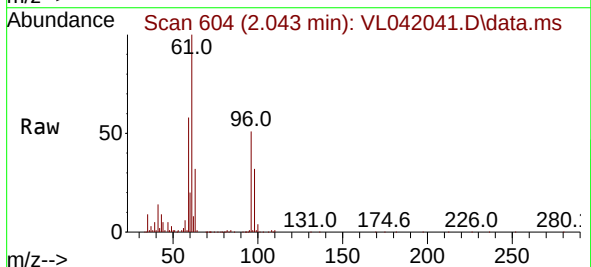
Tgt Ion: 59 Resp: 153073
Ion Ratio Lower Upper
59 100
57 11.6 9.2 13.8

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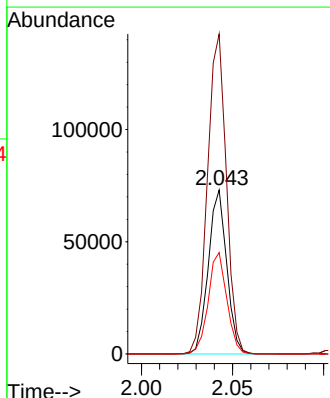
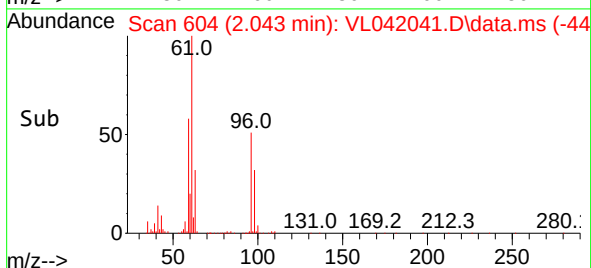
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025

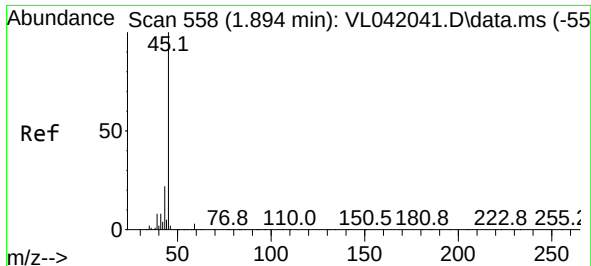


#18
1,1-Dichloroethene
Concen: 4.954 ppbv
RT: 2.043 min Scan# 604
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56



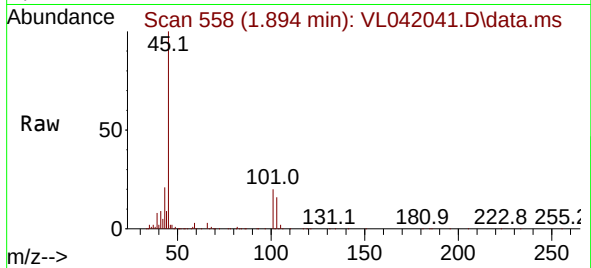
Tgt Ion: 96 Resp: 51534
Ion Ratio Lower Upper
96 100
61 195.0 163.5 245.3
98 61.8 49.4 74.0





#19
Isopropyl Alcohol
Concen: 4.522 ppbv
RT: 1.894 min Scan# 558
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

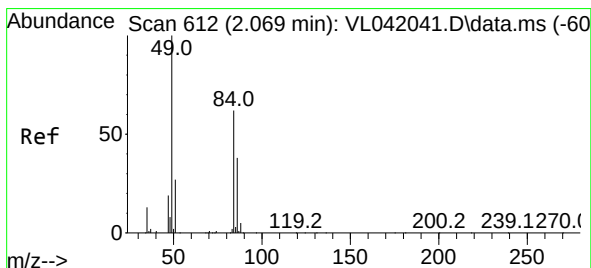
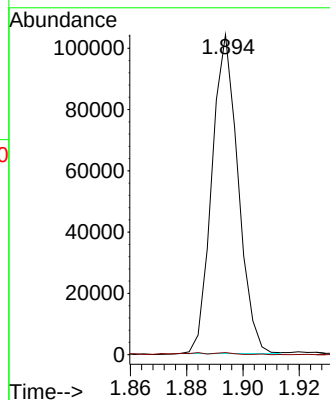
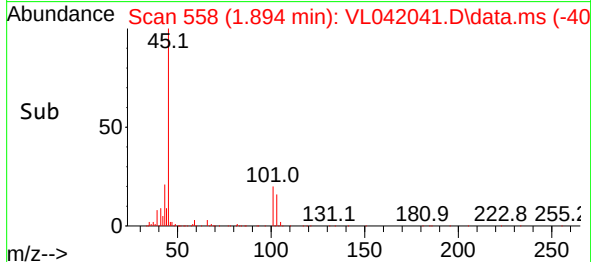
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



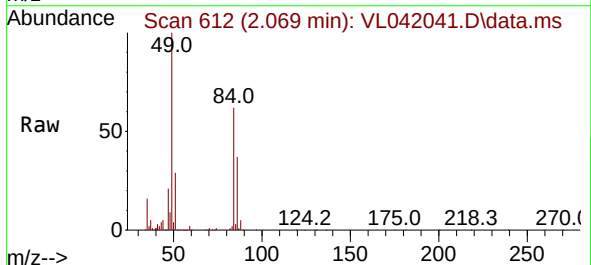
Tgt Ion: 45 Resp: 67449
Ion Ratio Lower Upper
45 100
58 44.1 36.2 54.4

Manual Integrations
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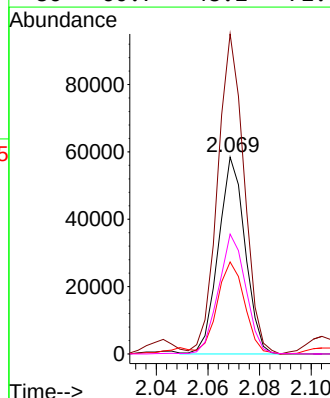
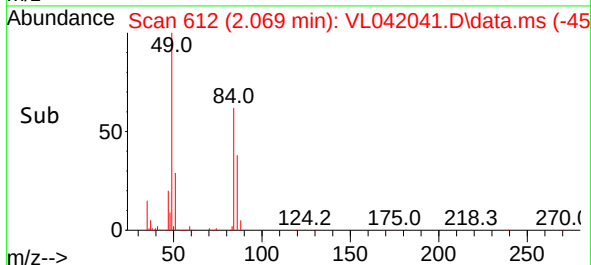
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025

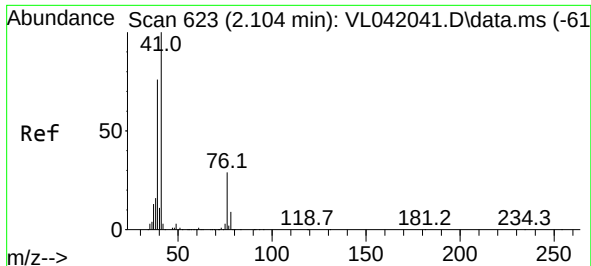


#20
Methylene Chloride
Concen: 4.195 ppbv
RT: 2.069 min Scan# 612
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56



Tgt Ion: 84 Resp: 41998
Ion Ratio Lower Upper
84 100
49 162.5 121.0 181.4
51 46.7 35.1 52.7
86 60.7 48.2 72.4





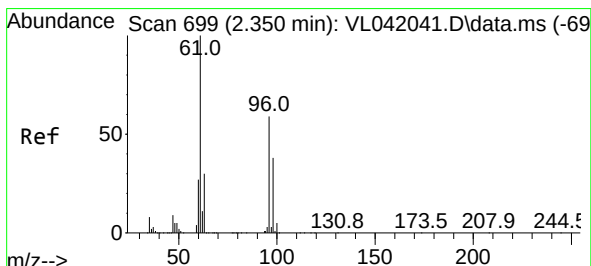
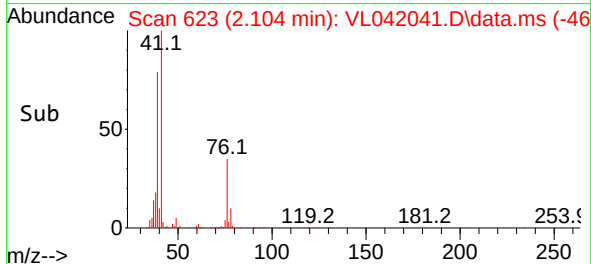
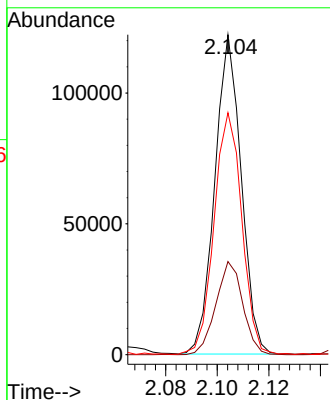
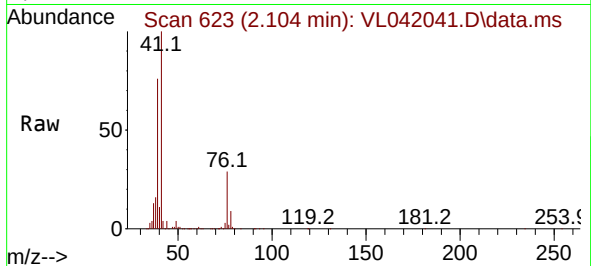
#21
 Allyl Chloride
 Concen: 4.504 ppbv
 RT: 2.104 min Scan# 612
 Delta R.T. 0.000 min
 Lab File: VL042041.D
 Acq: 25 Feb 2025 08:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tgt Ion: 41 Resp: 86723
 Ion Ratio Lower Upper
 41 100
 76 29.7 23.7 35.5
 39 79.7 63.0 94.6

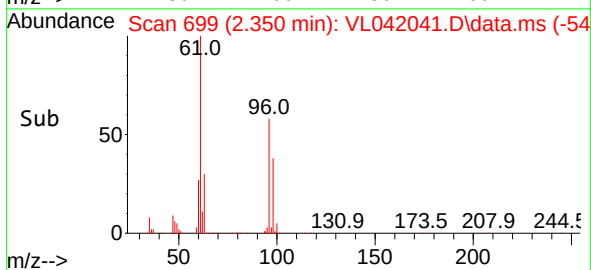
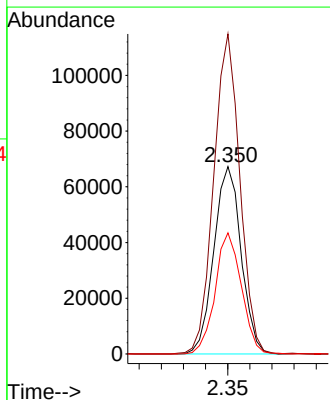
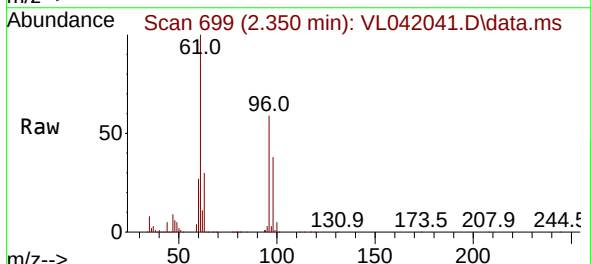
Manual Integrations
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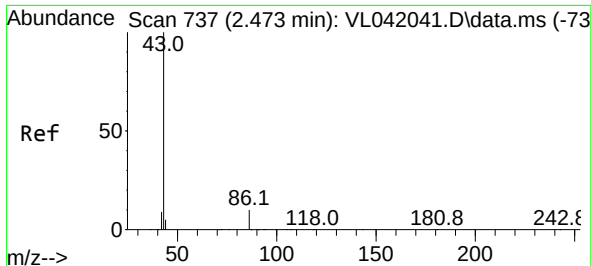
Reviewed By :Mahesh Dadoda 03/06/2025
 Supervised By :Semsettin Yesilyurt 03/06/2025



#22
 trans-1,2-Dichloroethene
 Concen: 5.104 ppbv
 RT: 2.350 min Scan# 699
 Delta R.T. 0.000 min
 Lab File: VL042041.D
 Acq: 25 Feb 2025 08:56

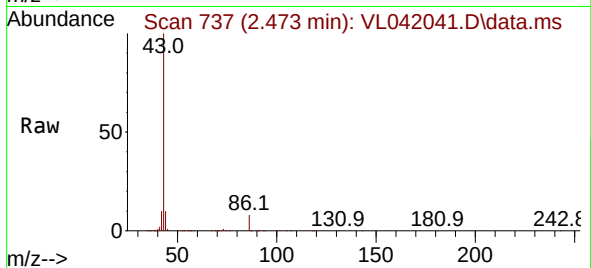
Tgt Ion: 96 Resp: 57617
 Ion Ratio Lower Upper
 96 100
 61 170.8 142.3 213.5
 98 64.7 50.2 75.2





#23
 Vinyl Acetate
 Concen: 5.823 ppbv
 RT: 2.473 min Scan# 737
 Delta R.T. 0.000 min
 Lab File: VL042041.D
 Acq: 25 Feb 2025 08:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

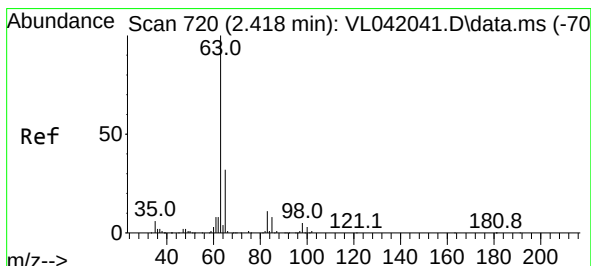
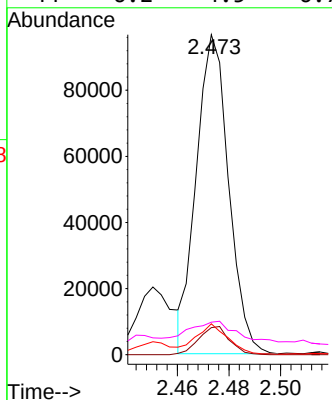
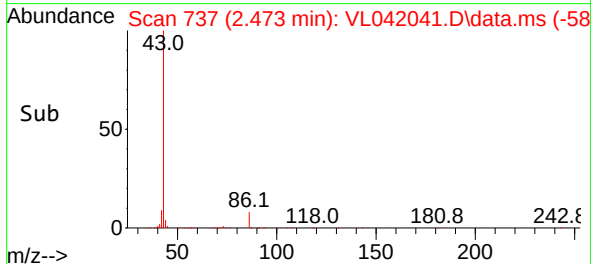


Tgt Ion: 43 Resp: 83860

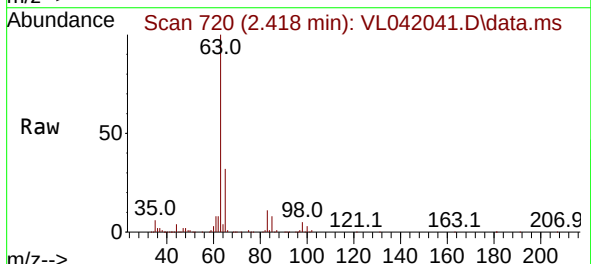
Ion	Ratio	Lower	Upper
43	100		
86	8.7	8.1	12.1
42	9.5	7.5	11.3
44	6.2	4.5	6.7

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Reviewed By :Mahesh Dadoda 03/06/2025
 Supervised By :Semsettin Yesilyurt 03/06/2025

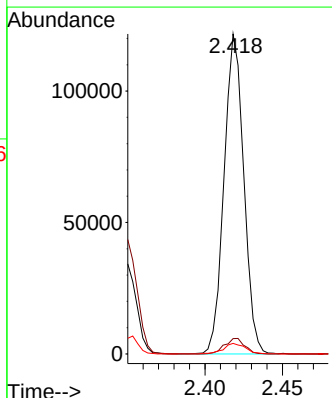
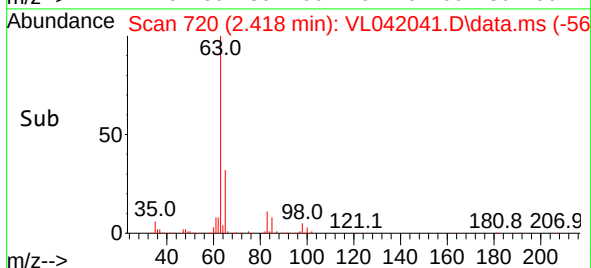


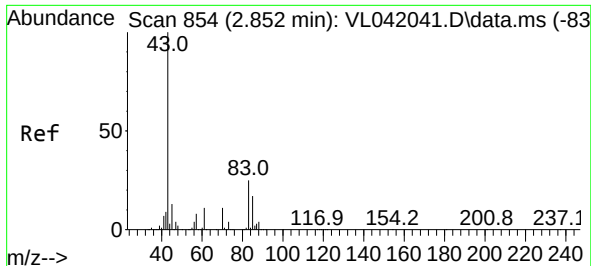
#24
 1,1-Dichloroethane
 Concen: 4.704 ppbv
 RT: 2.418 min Scan# 720
 Delta R.T. 0.000 min
 Lab File: VL042041.D
 Acq: 25 Feb 2025 08:56



Tgt Ion: 63 Resp: 107817

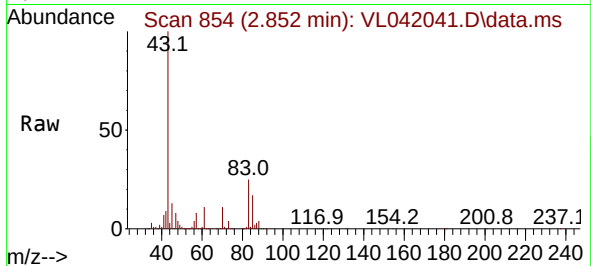
Ion	Ratio	Lower	Upper
63	100		
98	4.8	2.4	7.2
100	3.3	1.6	4.8





#25
Ethyl Acetate
Concen: 7.007 ppbv
RT: 2.852 min Scan# 854
Delta R.T. 0.003 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

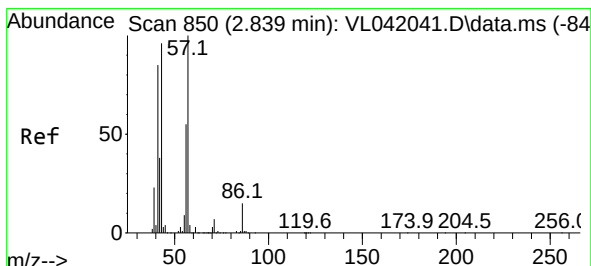
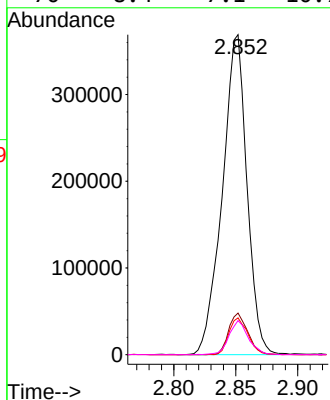
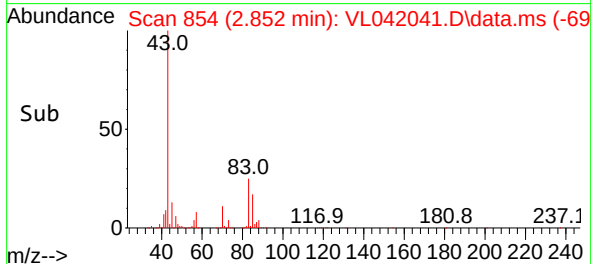
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



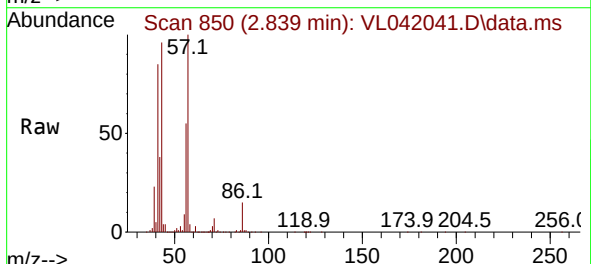
Tgt Ion: 43 Resp: 51150
Ion Ratio Lower Upper
43 100
45 10.1 8.1 12.1
61 9.0 7.5 11.3
70 8.4 7.1 10.7

Manual Integrations
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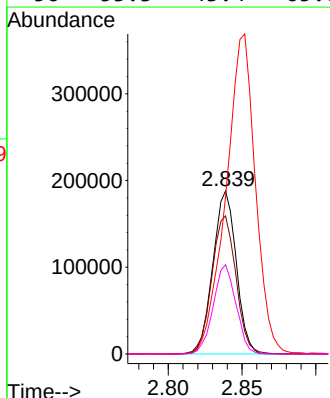
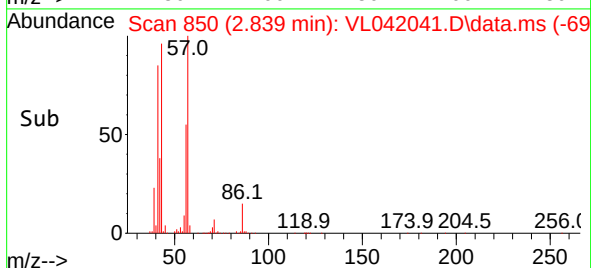
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025

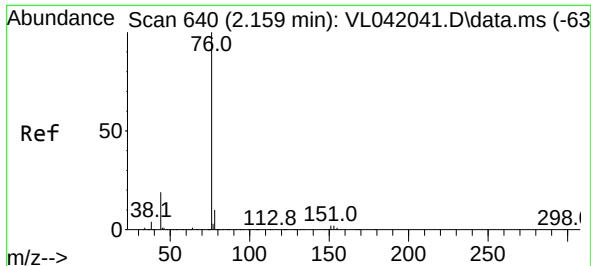


#26
Hexane
Concen: 7.052 ppbv
RT: 2.839 min Scan# 850
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56



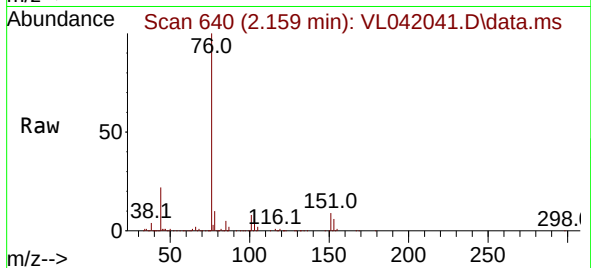
Tgt Ion: 57 Resp: 206577
Ion Ratio Lower Upper
57 100
41 88.3 73.2 109.8
43 249.2 200.8 301.2
56 53.3 43.4 65.0





#27
Carbon Disulfide
Concen: 5.008 ppbv
RT: 2.159 min Scan# 640
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

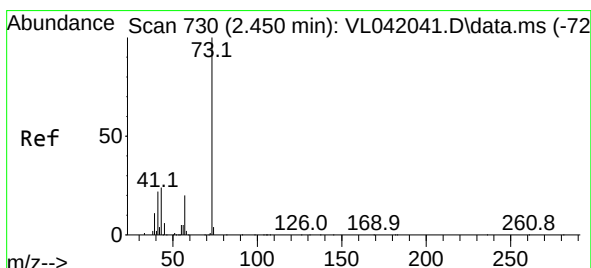
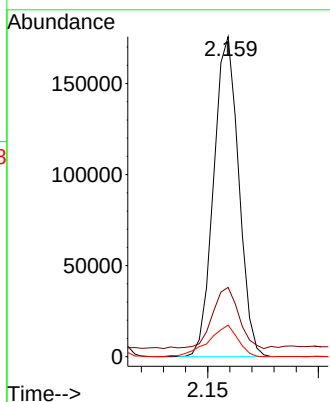
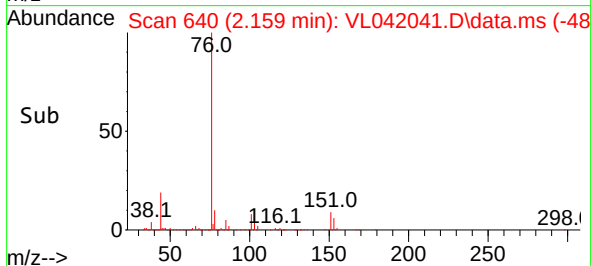
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 76 Resp: 137978
Ion Ratio Lower Upper
76 100
44 20.2 18.1 27.1
78 11.7 9.5 14.3

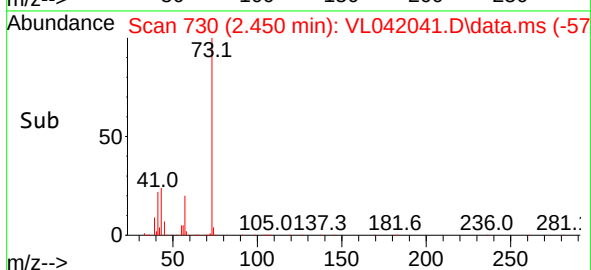
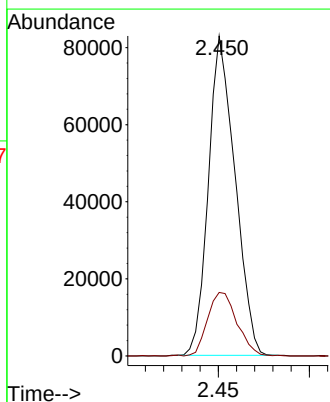
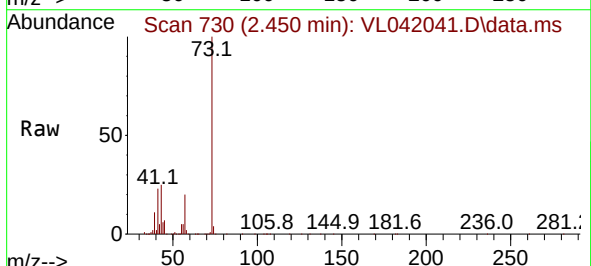
Manual Integrations
APPROVED

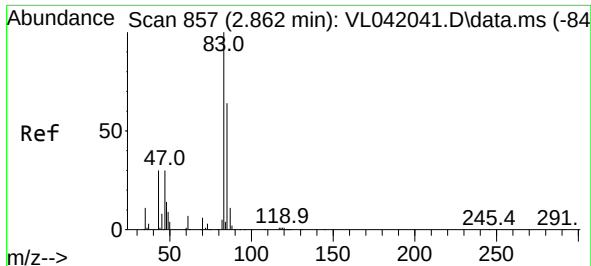
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025



#28
Methyl tert-Butyl Ether
Concen: 4.696 ppbv
RT: 2.450 min Scan# 730
Delta R.T. -0.003 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 73 Resp: 84091
Ion Ratio Lower Upper
73 100
57 22.1 18.3 27.5





#29

Chloroform

Concen: 6.538 ppbv

RT: 2.862 min Scan# 857

Delta R.T. 0.000 min

Lab File: VL042041.D

Acq: 25 Feb 2025 08:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 83 Resp: 27741

Ion Ratio Lower Upper

83 100

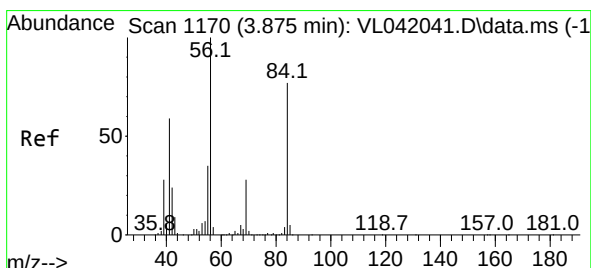
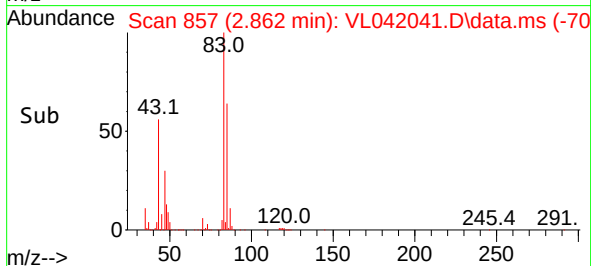
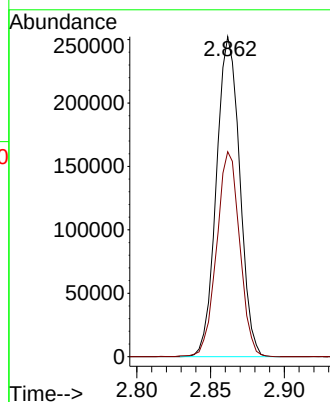
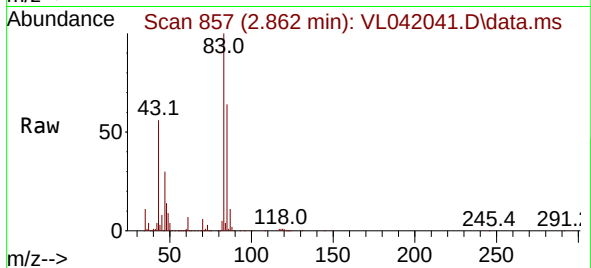
85 64.0 53.8 80.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 03/06/2025

Supervised By :Semsettin Yesilyurt 03/06/2025



#30

Cyclohexane

Concen: 7.295 ppbv

RT: 3.875 min Scan# 1170

Delta R.T. 0.000 min

Lab File: VL042041.D

Acq: 25 Feb 2025 08:56

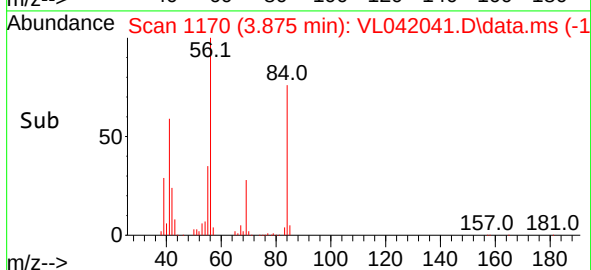
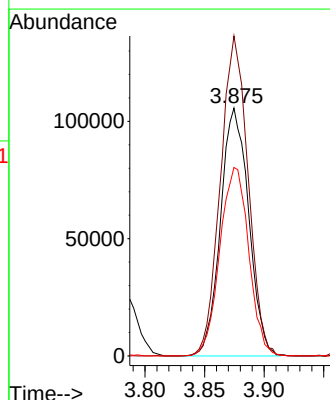
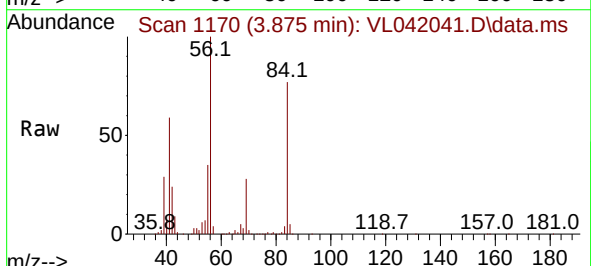
Tgt Ion: 84 Resp: 173351

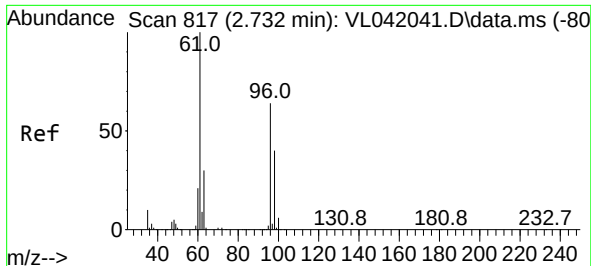
Ion Ratio Lower Upper

84 100

56 126.9 99.5 149.3

41 78.2 62.2 93.2





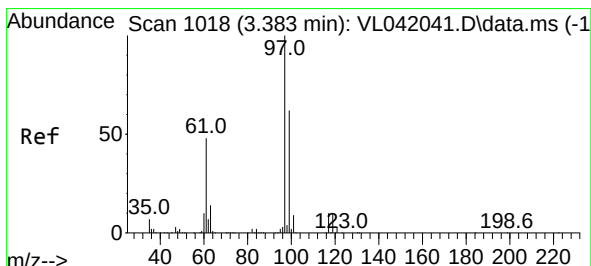
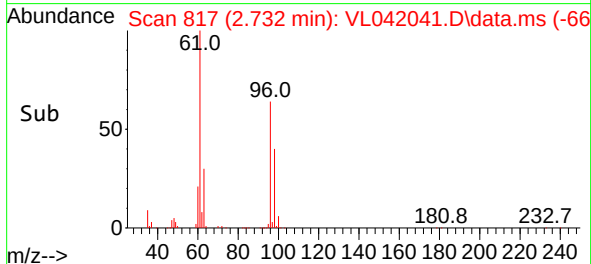
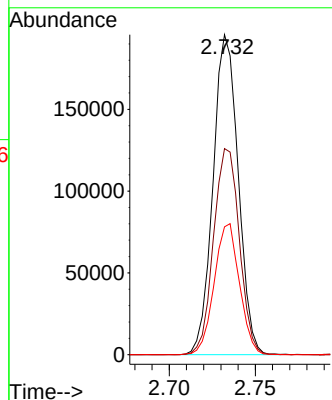
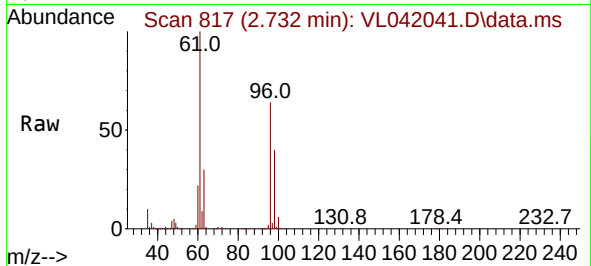
#31
 cis-1,2-Dichloroethene
 Concen: 6.886 ppbv
 RT: 2.732 min Scan# 817
 Delta R.T. 0.000 min
 Lab File: VL042041.D
 Acq: 25 Feb 2025 08:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tgt Ion: 61 Resp: 199354
 Ion Ratio Lower Upper
 61 100
 96 64.4 51.6 77.4
 98 40.0 34.8 52.2

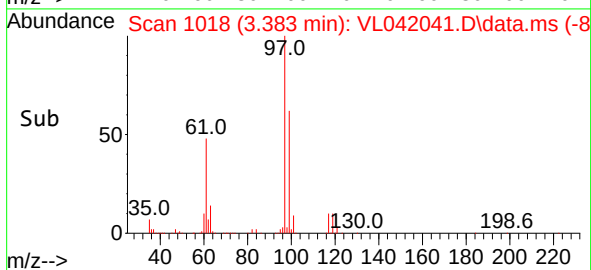
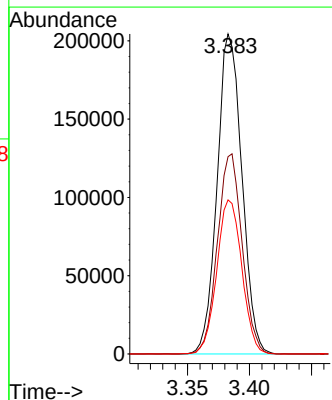
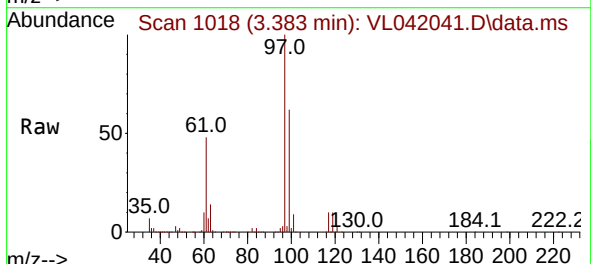
Manual Integrations
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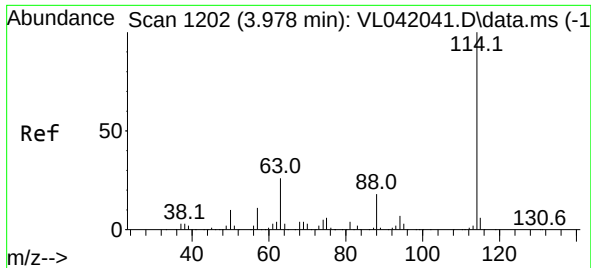
Reviewed By :Mahesh Dadoda 03/06/2025
 Supervised By :Semsettin Yesilyurt 03/06/2025



#32
 1,1,1-Trichloroethane
 Concen: 6.064 ppbv
 RT: 3.383 min Scan# 1018
 Delta R.T. 0.000 min
 Lab File: VL042041.D
 Acq: 25 Feb 2025 08:56

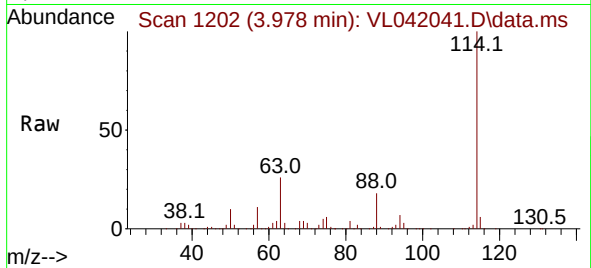
Tgt Ion: 97 Resp: 285335
 Ion Ratio Lower Upper
 97 100
 99 62.2 51.0 76.4
 61 48.6 37.9 56.9





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.978 min Scan# 114
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

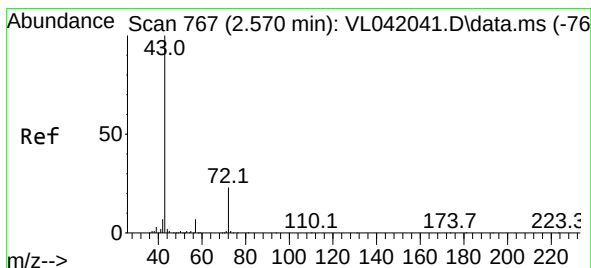
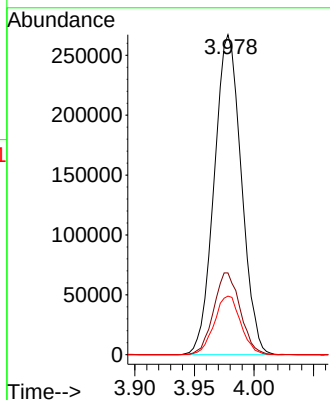
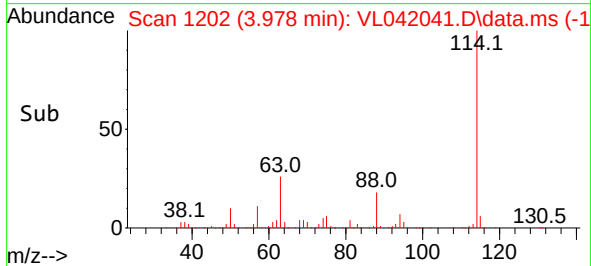
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



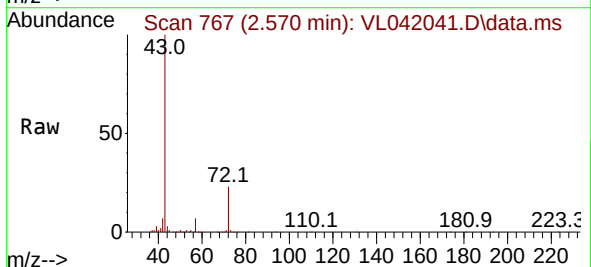
Tgt Ion:114 Resp: 422658
Ion Ratio Lower Upper
114 100
63 25.1 20.2 30.2
88 17.9 14.4 21.6

Manual Integrations
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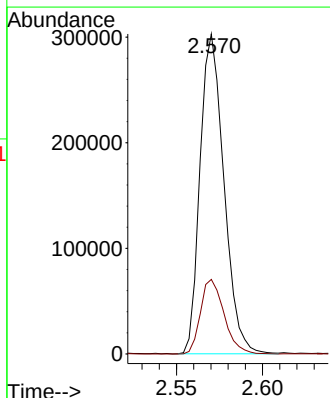
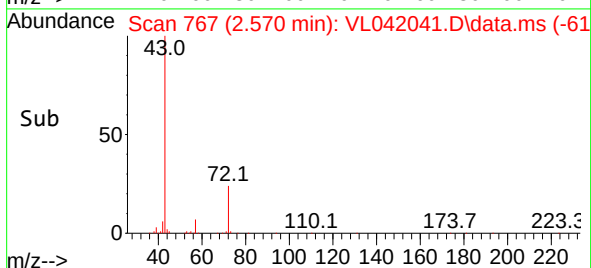
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025

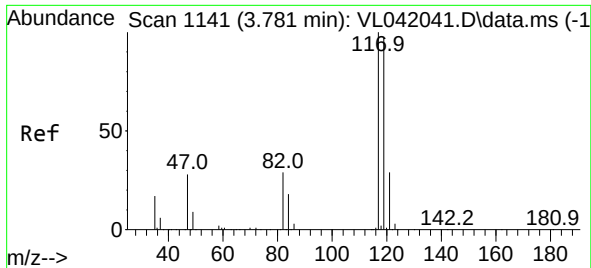


#34
2-Butanone
Concen: 8.043 ppbv
RT: 2.570 min Scan# 767
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56



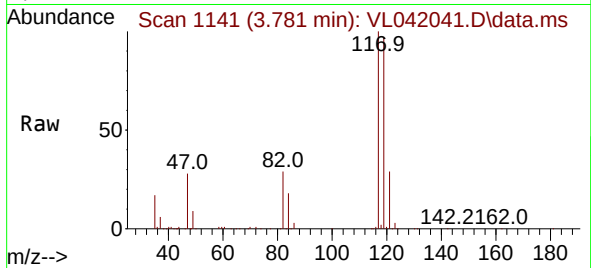
Tgt Ion: 43 Resp: 292449
Ion Ratio Lower Upper
43 100
72 23.1 18.3 27.5





#35
Carbon Tetrachloride
Concen: 6.741 ppbv
RT: 3.781 min Scan# 1141
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

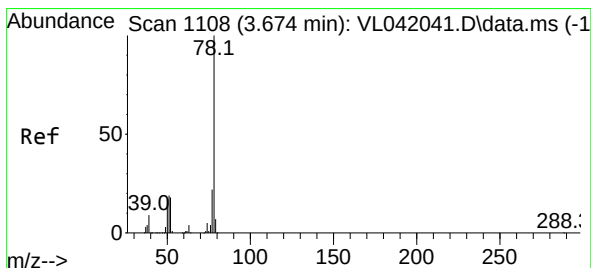
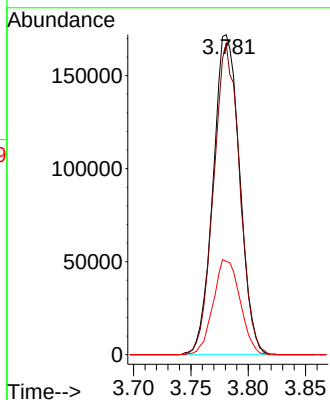
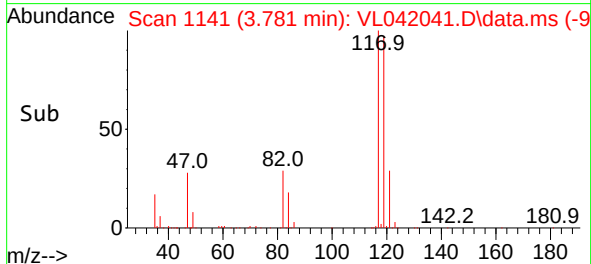
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



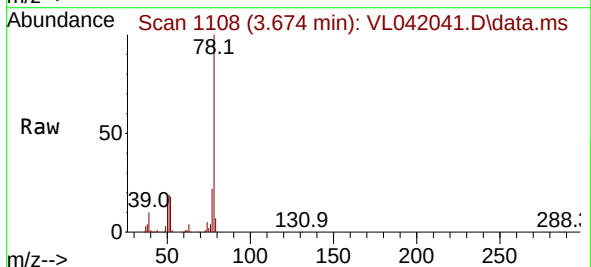
Tgt Ion: 117 Resp: 27667
Ion Ratio Lower Upper
117 100
119 97.3 75.8 113.6
121 29.2 24.6 36.8

Manual Integrations
APPROVED

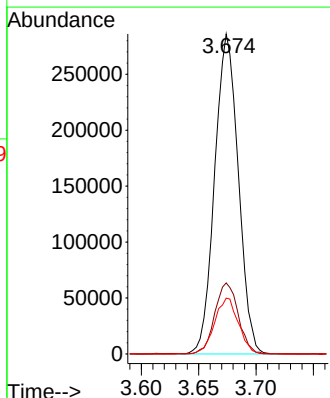
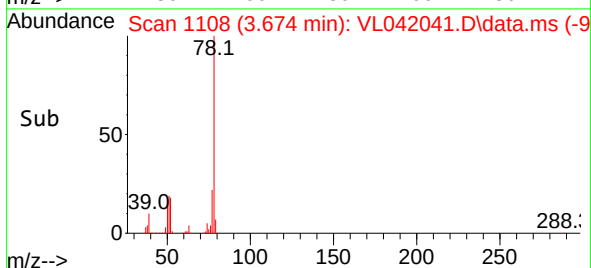
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025

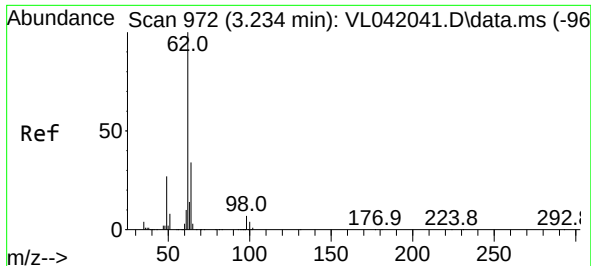


#36
Benzene
Concen: 7.999 ppbv
RT: 3.674 min Scan# 1108
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56



Tgt Ion: 78 Resp: 409501
Ion Ratio Lower Upper
78 100
77 22.1 18.0 27.0
50 17.4 15.2 22.8





#37

1,2-Dichloroethane

Concen: 7.543 ppbv

RT: 3.234 min Scan# 91

Delta R.T. 0.000 min

Lab File: VL042041.D

Acq: 25 Feb 2025 08:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 62 Resp: 219829

Ion Ratio Lower Upper

62 100

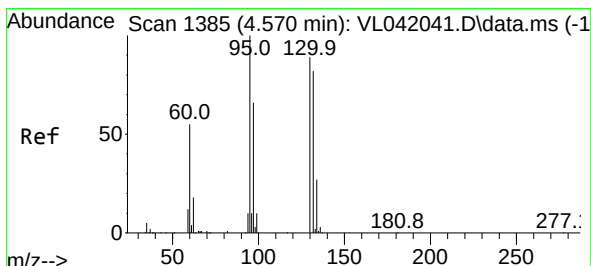
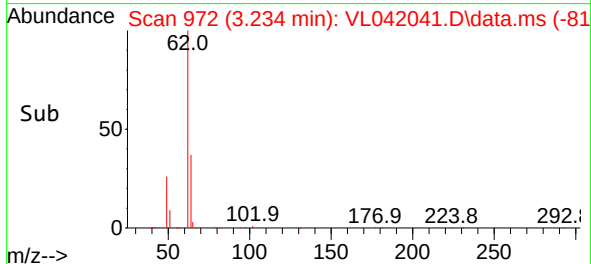
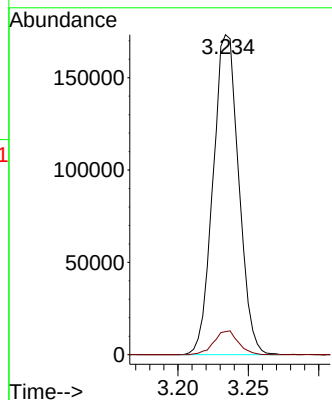
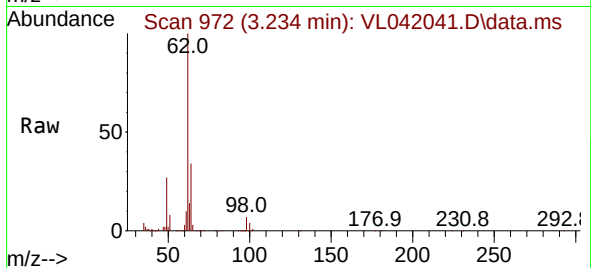
98 7.1 5.7 8.5

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 03/06/2025

Supervised By :Semsettin Yesilyurt 03/06/2025



#38

Trichloroethene

Concen: 7.689 ppbv

RT: 4.570 min Scan# 1385

Delta R.T. 0.003 min

Lab File: VL042041.D

Acq: 25 Feb 2025 08:56

Tgt Ion:130 Resp: 159933

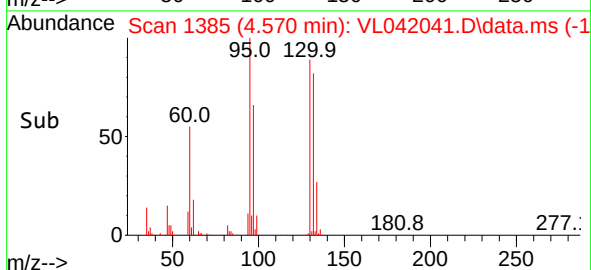
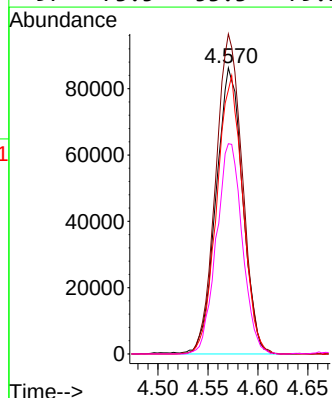
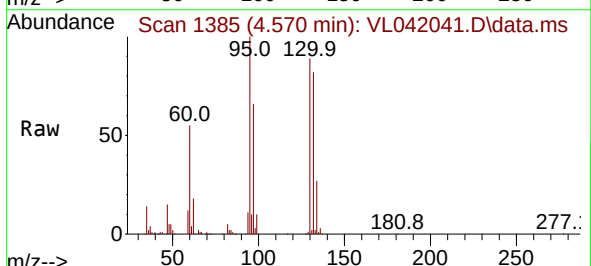
Ion Ratio Lower Upper

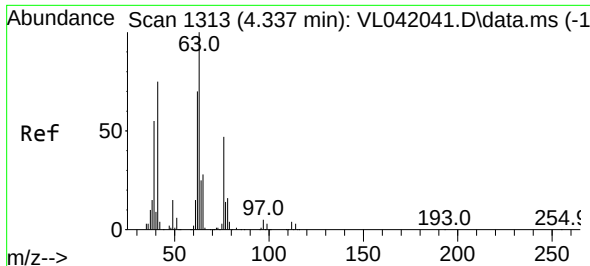
130 100

95 111.9 82.8 124.2

132 92.2 70.0 105.0

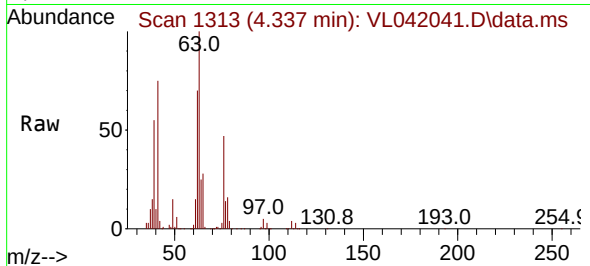
97 73.5 53.3 79.9





#39
1,2-Dichloropropane
Concen: 8.047 ppbv
RT: 4.337 min Scan# 1313
Delta R.T. 0.003 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

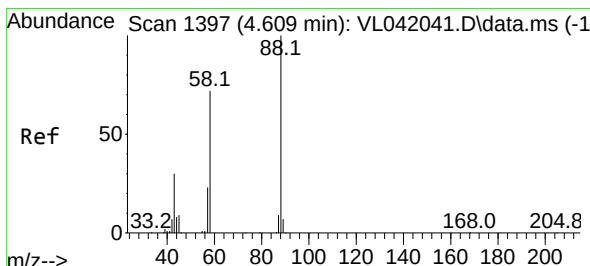
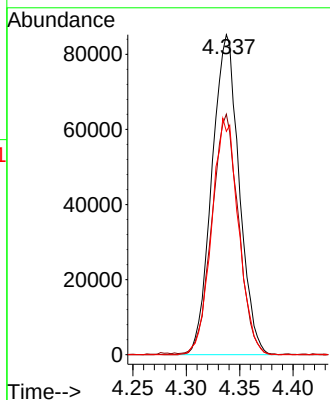
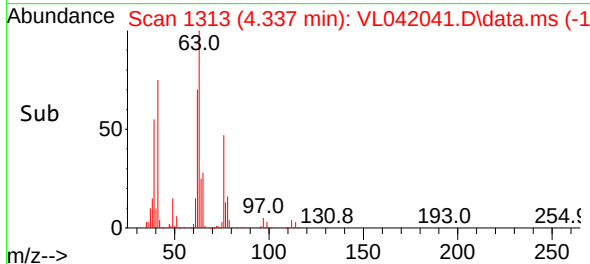
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



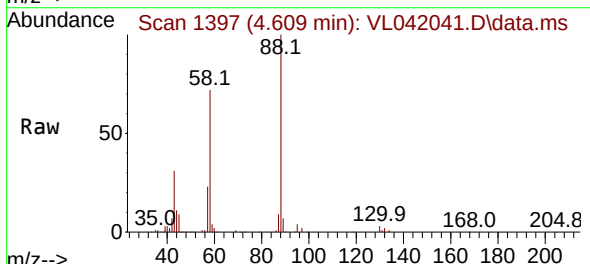
Tgt Ion: 63 Resp: 151036
Ion Ratio Lower Upper
63 100
41 75.1 60.1 90.1
62 69.8 54.0 81.0

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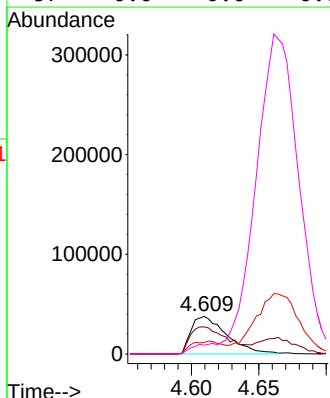
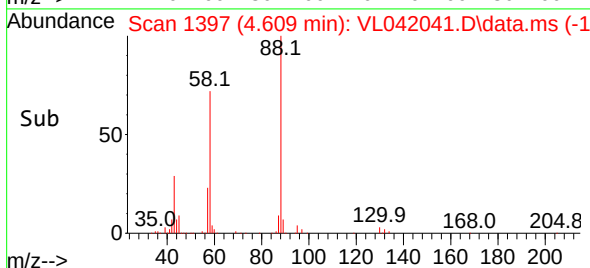
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025

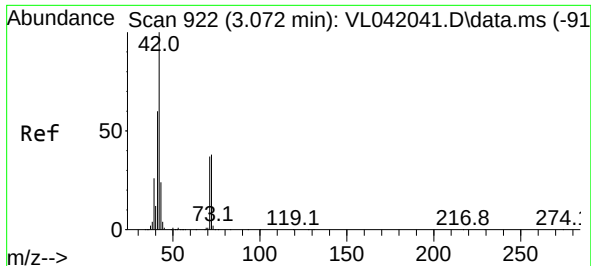


#40
1,4-Dioxane
Concen: 7.105 ppbv
RT: 4.609 min Scan# 1397
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56



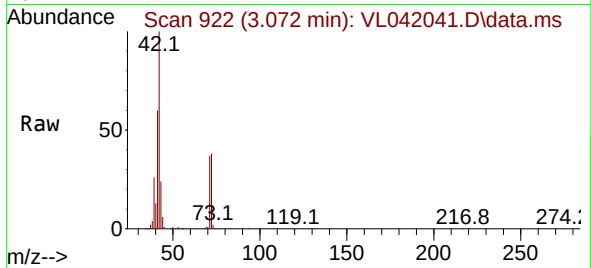
Tgt Ion: 88 Resp: 69399
Ion Ratio Lower Upper
88 100
58 78.3 58.1 87.1
43 0.0 27.3 40.9#
57 0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 8.509 ppbv
RT: 3.072 min Scan# 91
Delta R.T. 0.004 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

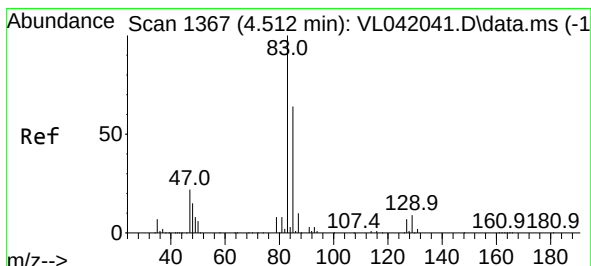
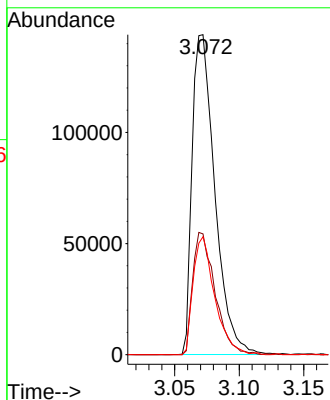
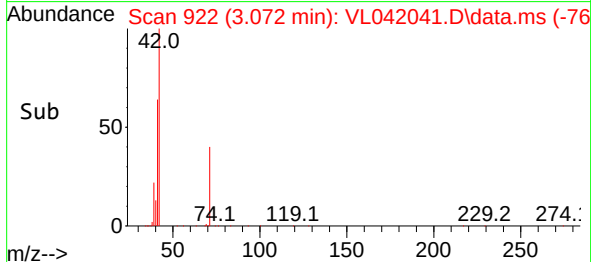
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 42 Resp: 176830
Ion Ratio Lower Upper
42 100
72 37.7 32.3 48.5
71 35.3 30.9 46.3

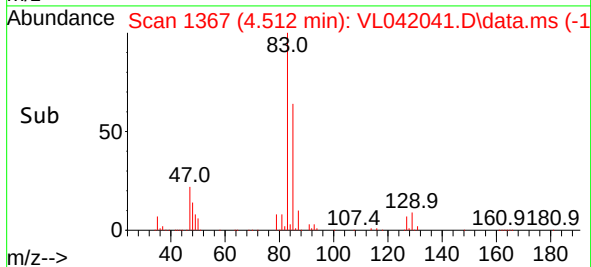
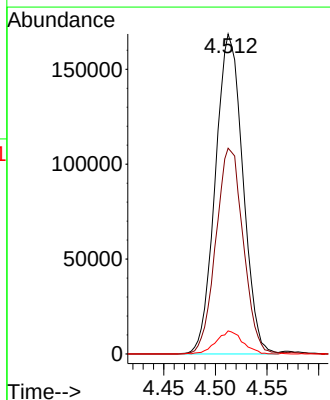
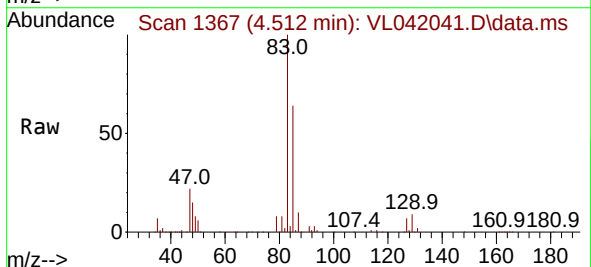
Manual Integrations
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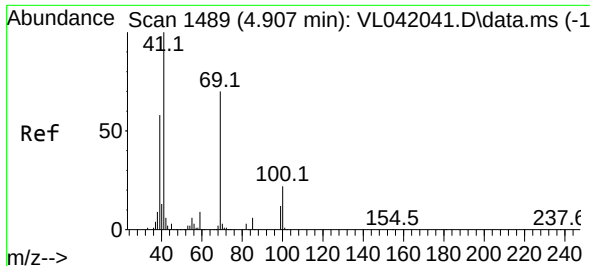
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025



#42
Bromodichloromethane
Concen: 7.908 ppbv
RT: 4.512 min Scan# 1367
Delta R.T. -0.003 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

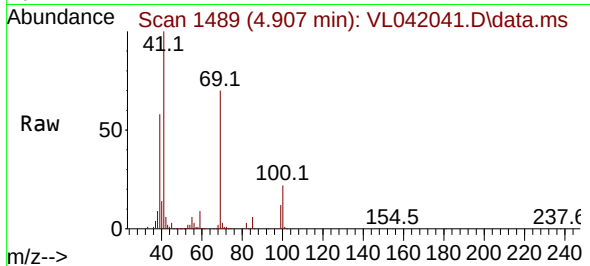
Tgt Ion: 83 Resp: 312250
Ion Ratio Lower Upper
83 100
85 64.3 53.3 79.9
127 7.2 6.0 9.0





#43
Methyl Methacrylate
Concen: 7.091 ppbv
RT: 4.907 min Scan# 1489
Delta R.T. 0.003 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

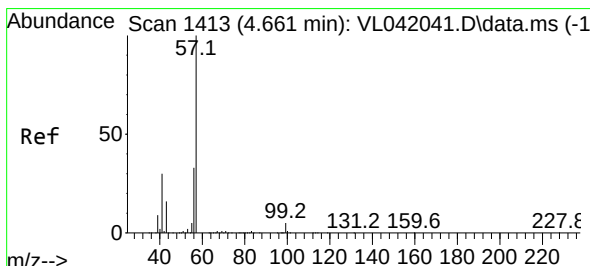
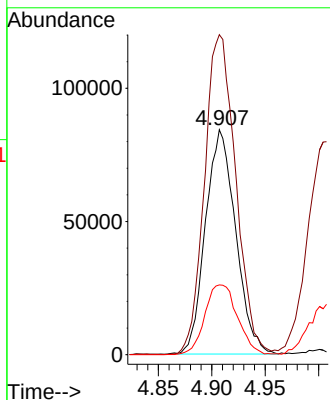
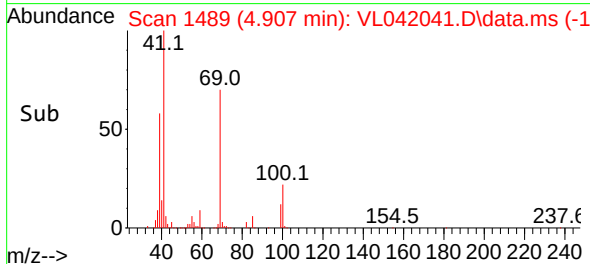
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



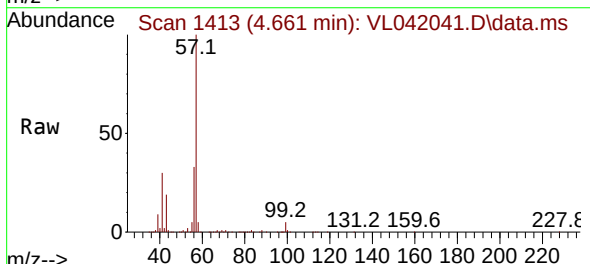
Tgt Ion: 69 Resp: 165494
Ion Ratio Lower Upper
69 100
41 147.8 114.9 172.3
100 33.7 28.8 43.2

Manual Integrations
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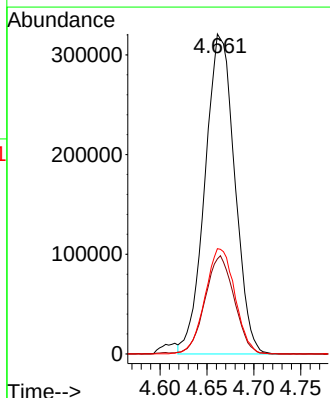
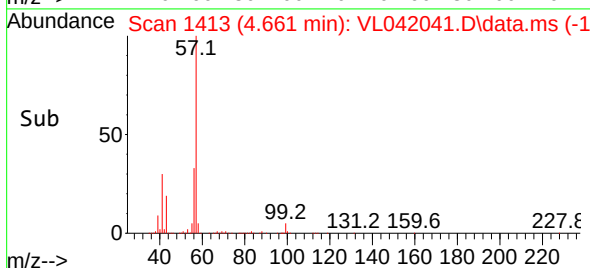
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025

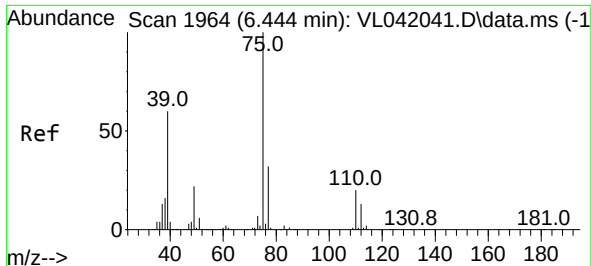


#44
2,2,4-Trimethylpentane
Concen: 8.122 ppbv
RT: 4.661 min Scan# 1413
Delta R.T. -0.003 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56



Tgt Ion: 57 Resp: 705920
Ion Ratio Lower Upper
57 100
41 30.5 25.9 38.9
56 33.1 24.9 37.3





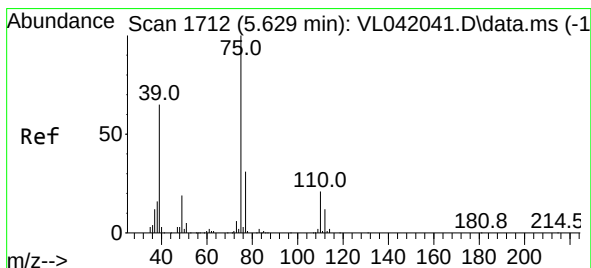
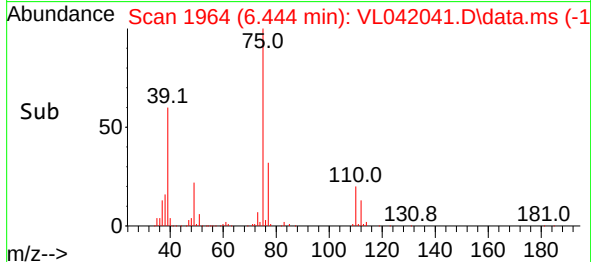
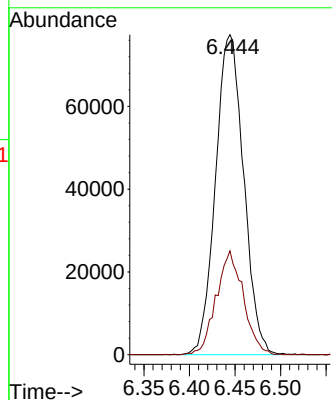
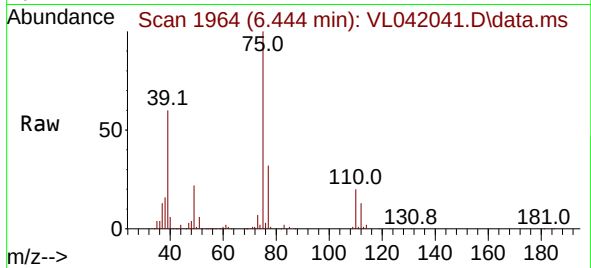
#45
 t-1,3-Dichloropropene
 Concen: 7.544 ppbv
 RT: 6.444 min Scan# 1964
 Delta R.T. 0.000 min
 Lab File: VL042041.D
 Acq: 25 Feb 2025 08:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tgt Ion: 75 Resp: 166207
 Ion Ratio Lower Upper
 75 100
 77 32.4 22.1 33.1

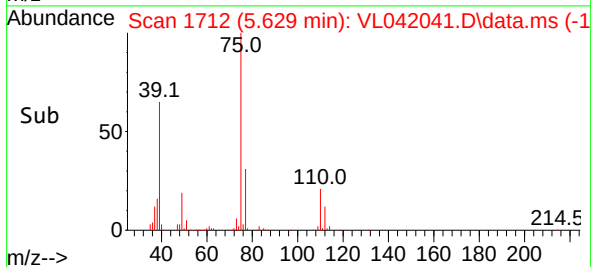
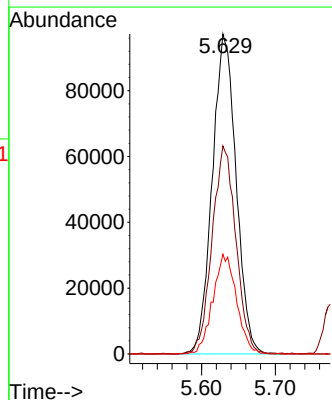
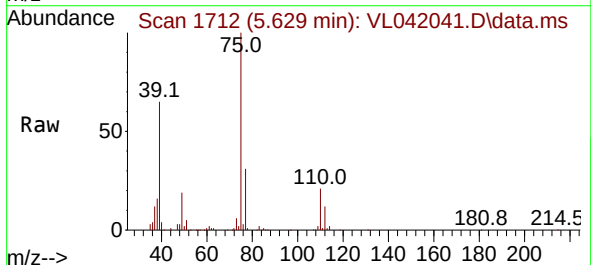
Manual Integrations
 APPROVED

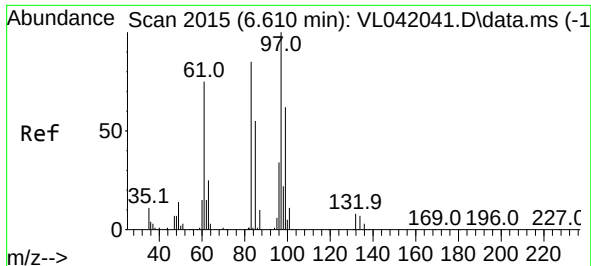
Reviewed By :Mahesh Dadoda 03/06/2025
 Supervised By :Semsettin Yesilyurt 03/06/2025



#46
 cis-1,3-Dichloropropene
 Concen: 7.809 ppbv
 RT: 5.629 min Scan# 1712
 Delta R.T. 0.000 min
 Lab File: VL042041.D
 Acq: 25 Feb 2025 08:56

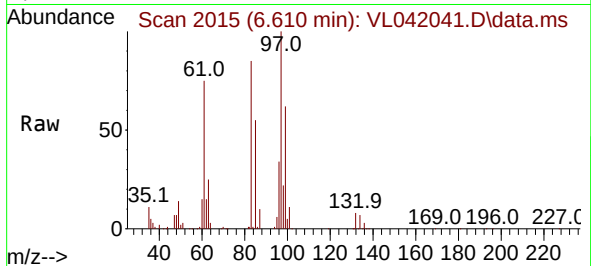
Tgt Ion: 75 Resp: 218294
 Ion Ratio Lower Upper
 75 100
 39 64.9 52.2 78.4
 77 31.1 24.5 36.7





#47
1,1,2-Trichloroethane
Concen: 7.723 ppbv
RT: 6.610 min Scan# 2015
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

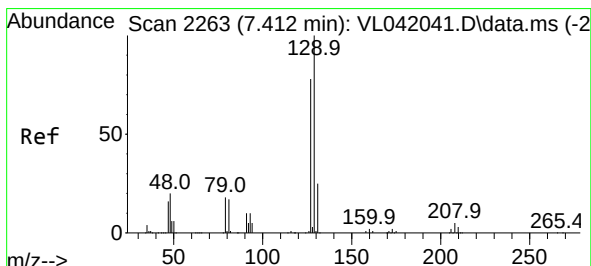
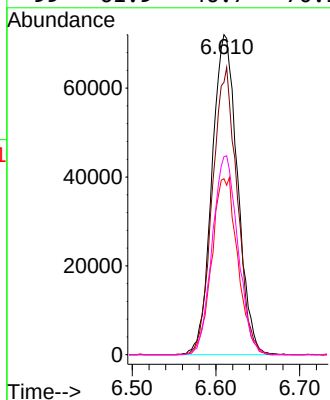
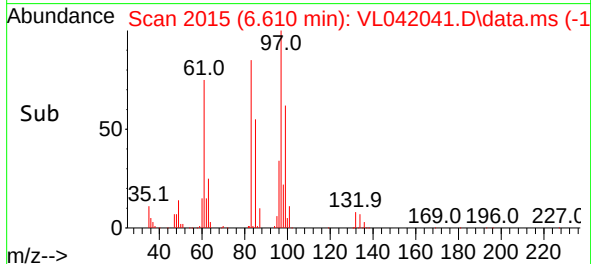
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



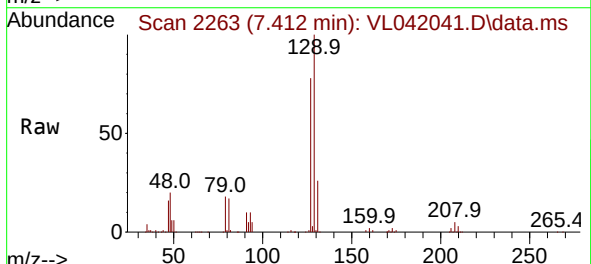
Tgt Ion: 97 Resp: 152550
Ion Ratio Lower Upper
97 100
83 85.1 68.6 102.8
85 55.0 42.2 63.4
99 61.9 46.7 70.1

Manual Integrations
APPROVED

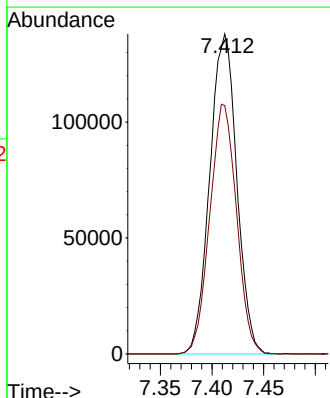
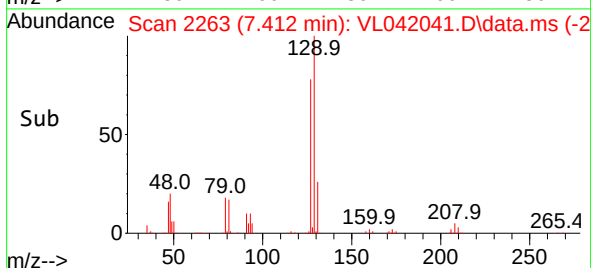
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025

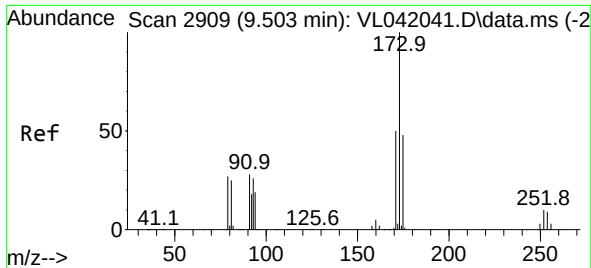


#48
Dibromochloromethane
Concen: 7.593 ppbv
RT: 7.412 min Scan# 2263
Delta R.T. 0.004 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56



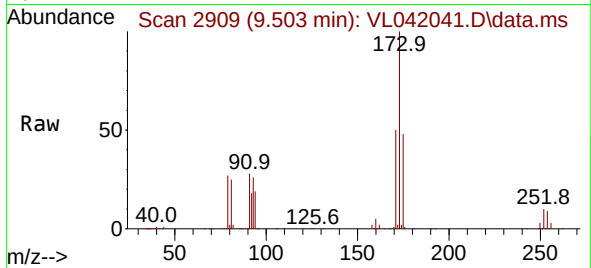
Tgt Ion:129 Resp: 251213
Ion Ratio Lower Upper
129 100
127 77.2 38.2 114.6





#49
Bromoform
Concen: 8.183 ppbv
RT: 9.503 min Scan# 2909
Delta R.T. 0.004 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

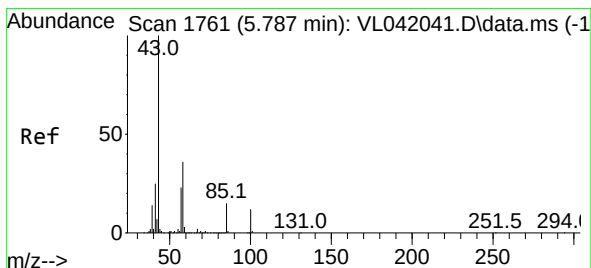
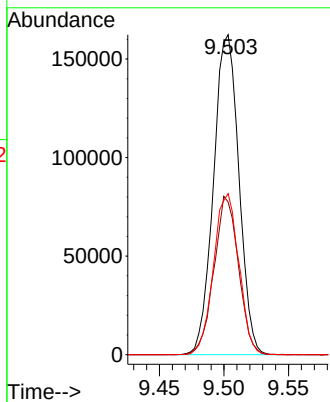
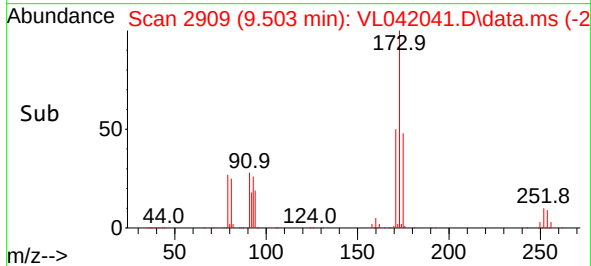
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



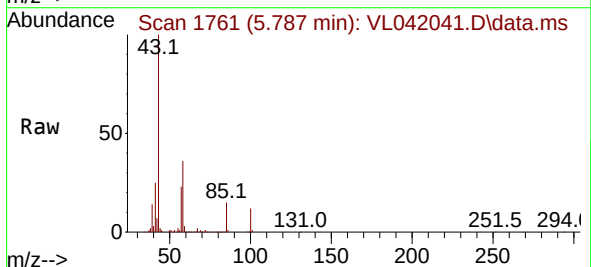
Tgt Ion: 173 Resp: 22205
Ion Ratio Lower Upper
173 100
175 47.9 39.3 58.9
171 50.2 41.4 62.2

Manual Integrations
APPROVED

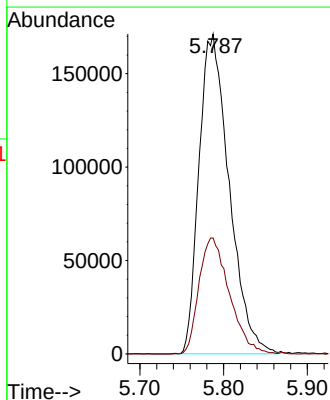
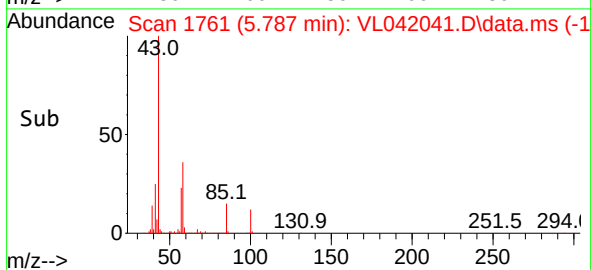
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025

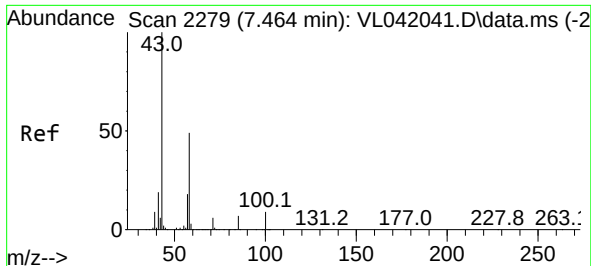


#50
4-Methyl-2-Pentanone
Concen: 7.666 ppbv
RT: 5.787 min Scan# 1761
Delta R.T. 0.003 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56



Tgt Ion: 43 Resp: 428434
Ion Ratio Lower Upper
43 100
58 36.6 29.4 44.0





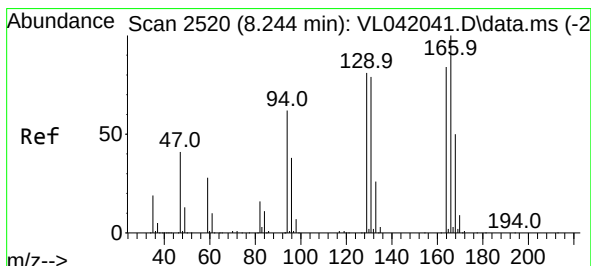
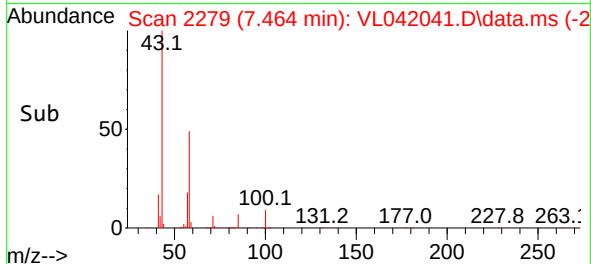
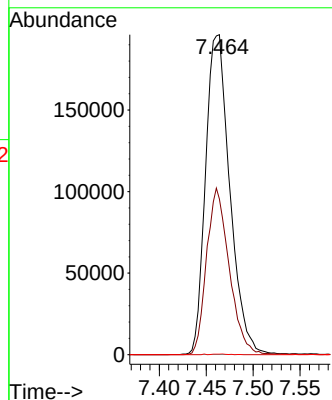
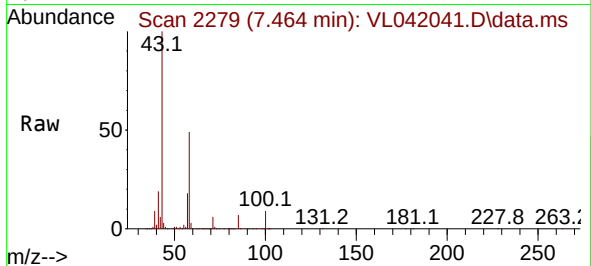
#51
2-Hexanone
Concen: 7.709 ppbv
RT: 7.464 min Scan# 2279
Delta R.T. 0.004 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 43 Resp: 35233
Ion Ratio Lower Upper
43 100
58 48.8 41.4 62.0
98 0.1 0.0 0.0

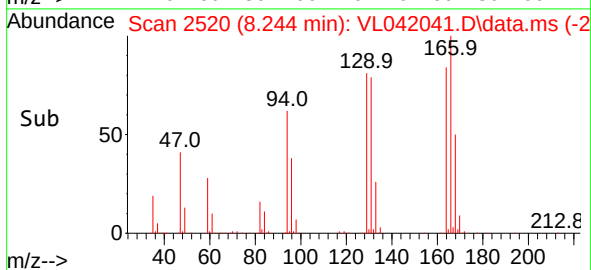
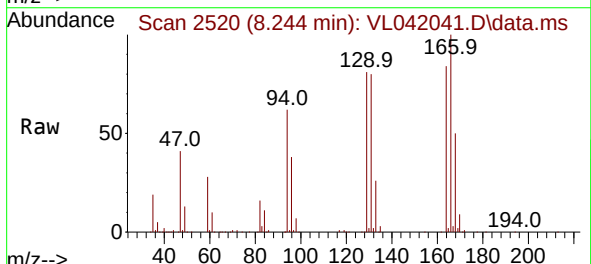
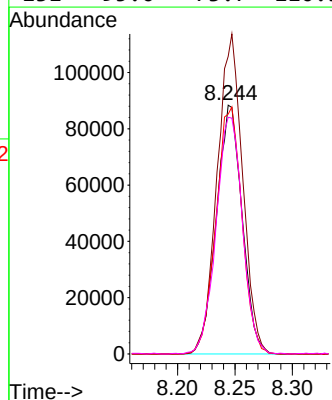
Manual Integrations
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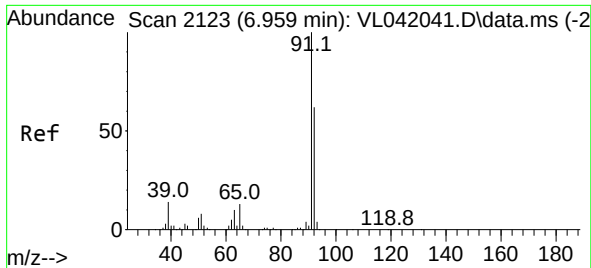
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025



#52
Tetrachloroethene
Concen: 7.743 ppbv
RT: 8.244 min Scan# 2520
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

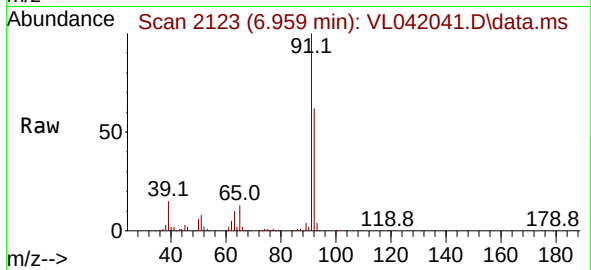
Tgt Ion:164 Resp: 138263
Ion Ratio Lower Upper
164 100
166 119.6 102.2 153.2
129 96.4 82.2 123.4
131 95.0 73.7 110.5





#53
Toluene
Concen: 7.541 ppbv
RT: 6.959 min Scan# 2123
Delta R.T. 0.004 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

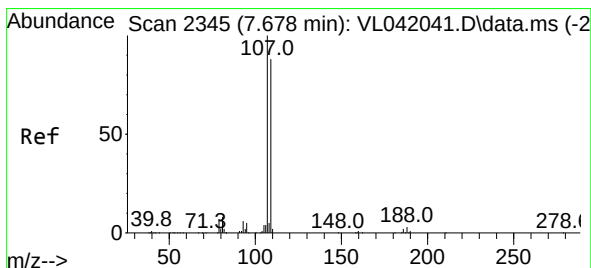
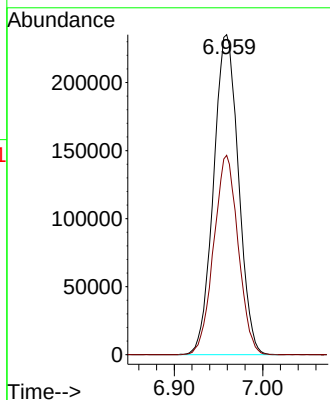
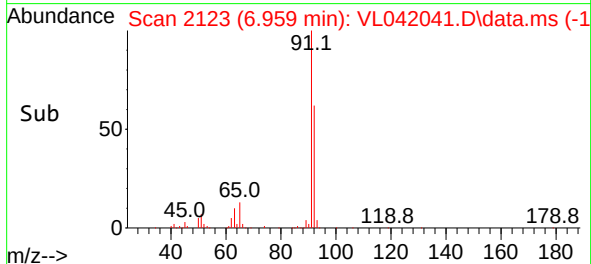
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



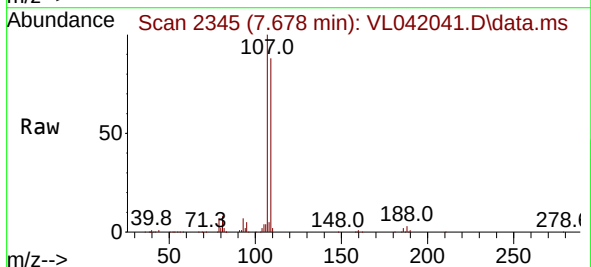
Tgt Ion: 91 Resp: 46004
Ion Ratio Lower Upper
91 100
92 61.3 47.5 71.3

Manual Integrations
APPROVED

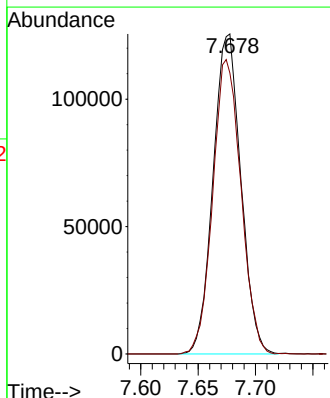
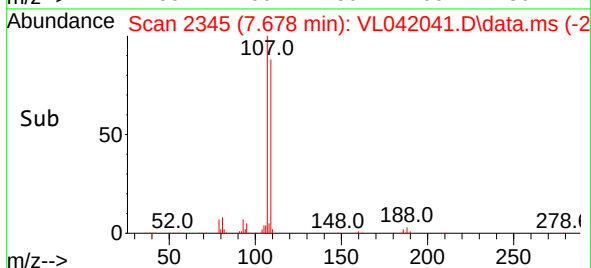
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025

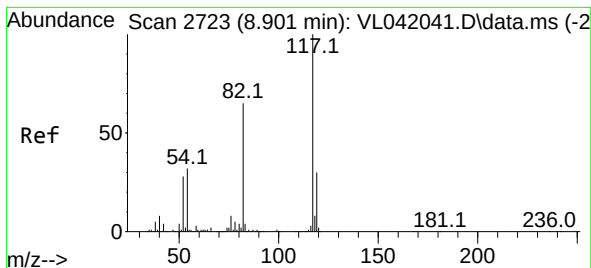


#54
1,2-Dibromoethane
Concen: 7.772 ppbv
RT: 7.678 min Scan# 2345
Delta R.T. 0.003 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56



Tgt Ion:107 Resp: 211395
Ion Ratio Lower Upper
107 100
109 87.8 71.5 107.3





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.901 min Scan# 2723

Delta R.T. 0.004 min

Lab File: VL042041.D

Acq: 25 Feb 2025 08:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

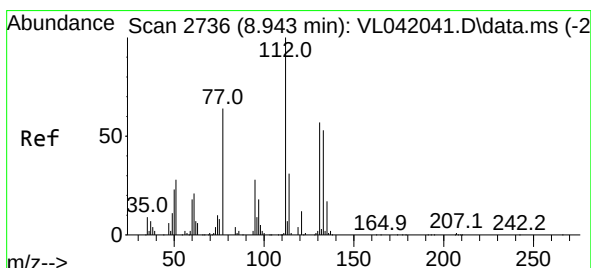
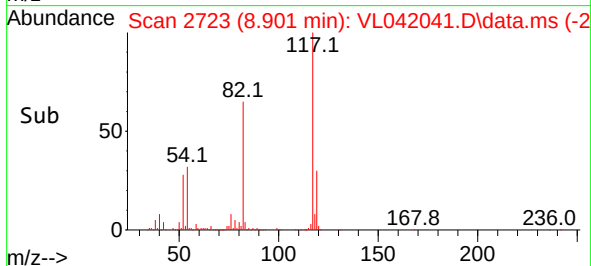
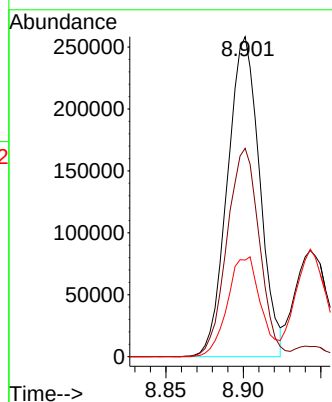
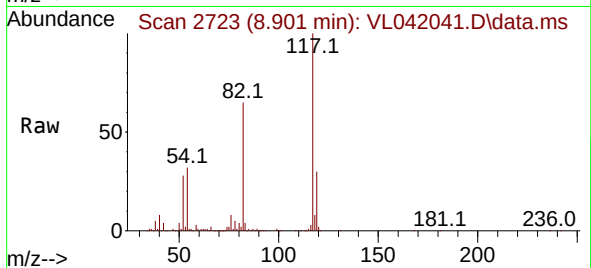
Tgt Ion:117 Resp: 374249

Ion	Ratio	Lower	Upper
117	100		
82	68.8	55.7	83.5
119	32.4	25.2	37.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025



#56

1,1,1,2-Tetrachloroethane

Concen: 7.049 ppbv

RT: 8.943 min Scan# 2736

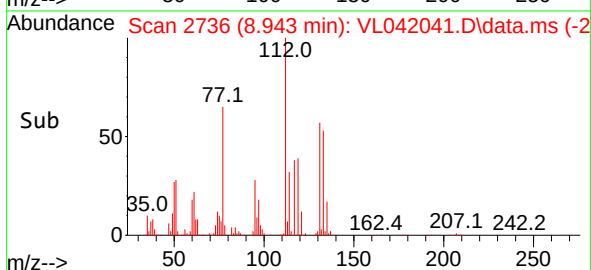
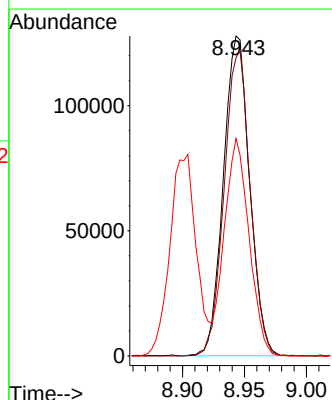
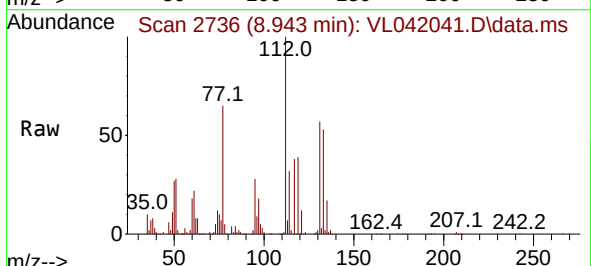
Delta R.T. 0.000 min

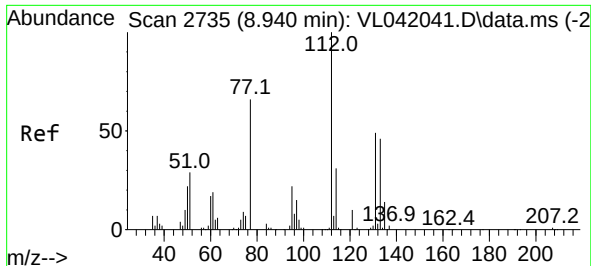
Lab File: VL042041.D

Acq: 25 Feb 2025 08:56

Tgt Ion:131 Resp: 188811

Ion	Ratio	Lower	Upper
131	100		
133	94.8	77.8	116.8
119	65.1	49.1	73.7





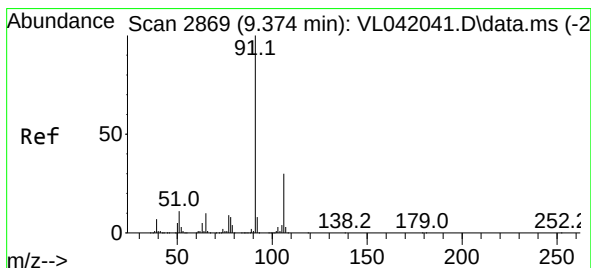
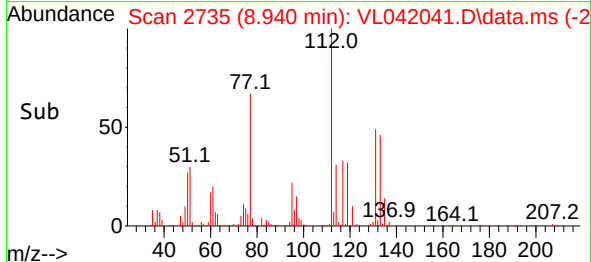
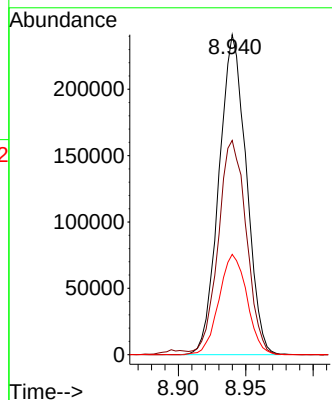
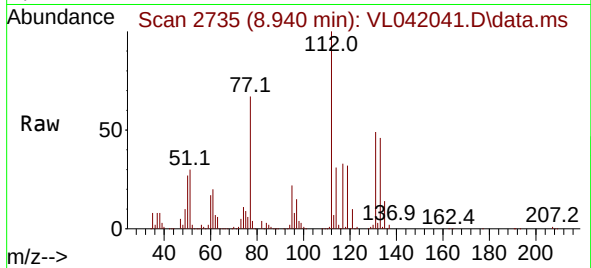
#57
Chlorobenzene
Concen: 7.735 ppbv
RT: 8.940 min Scan# 2735
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 112 Resp: 340529
Ion Ratio Lower Upper
112 100
77 66.8 56.2 84.2
114 31.4 28.2 34.4

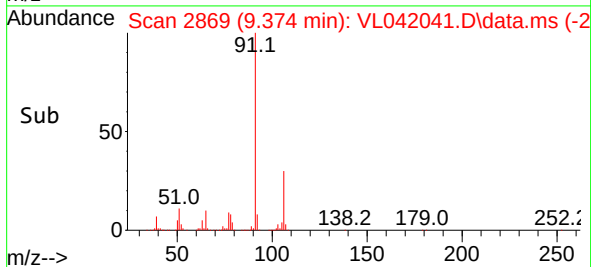
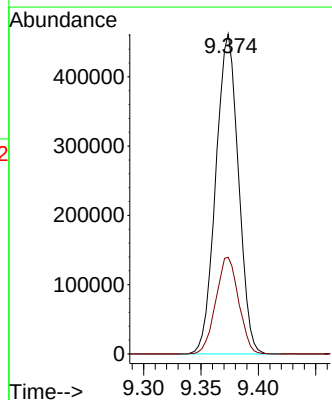
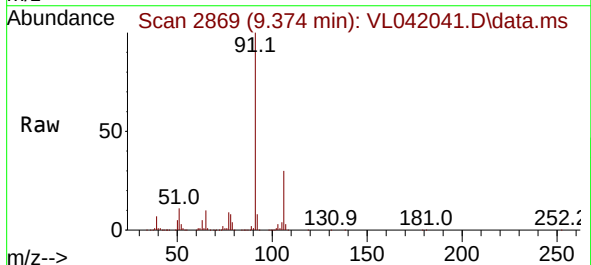
Manual Integrations
APPROVED

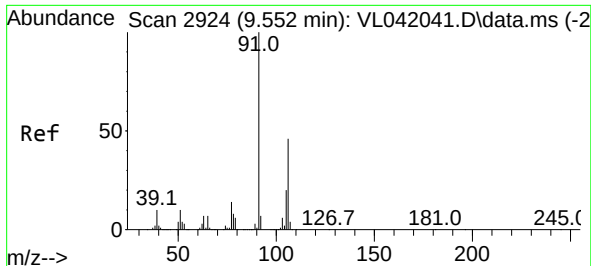
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025



#58
Ethyl Benzene
Concen: 7.739 ppbv
RT: 9.374 min Scan# 2869
Delta R.T. 0.004 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 91 Resp: 633939
Ion Ratio Lower Upper
91 100
106 30.2 23.1 34.7





#59

m/p-Xylene

Concen: 15.427 ppbv m

RT: 9.552 min Scan# 2924

Delta R.T. 0.004 min

Lab File: VL042041.D

Acq: 25 Feb 2025 08:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 91 Resp: 995259

Ion Ratio Lower Upper

91 100

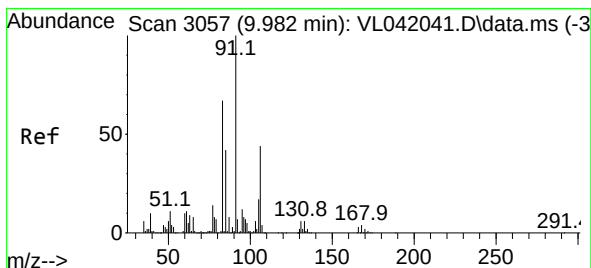
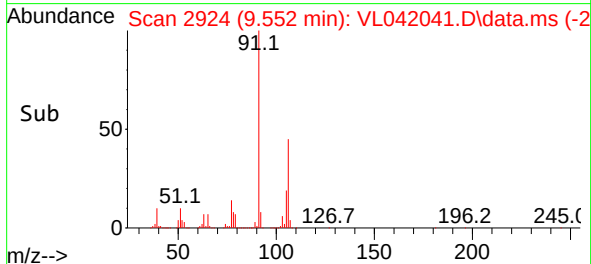
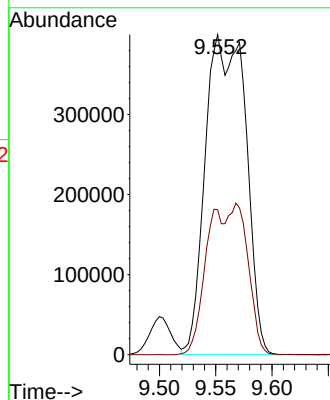
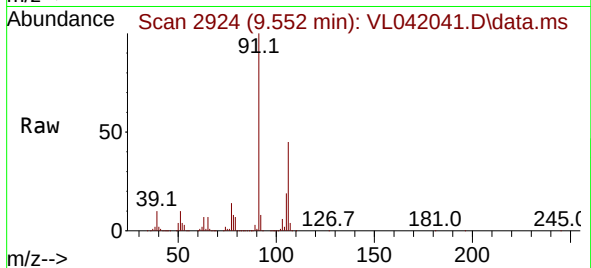
106 0.0 35.8 53.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 03/06/2025

Supervised By :Semsettin Yesilyurt 03/06/2025



#60

o-Xylene

Concen: 7.557 ppbv

RT: 9.982 min Scan# 3057

Delta R.T. 0.004 min

Lab File: VL042041.D

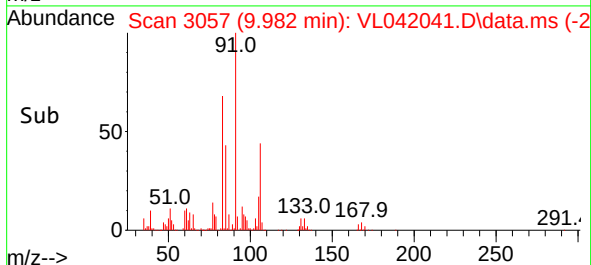
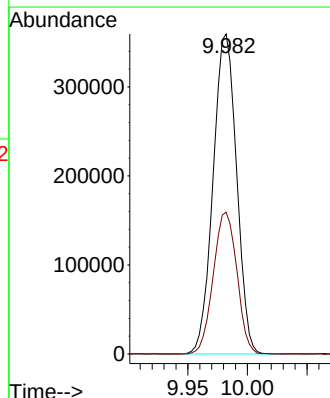
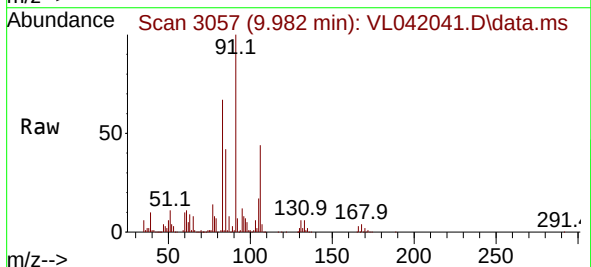
Acq: 25 Feb 2025 08:56

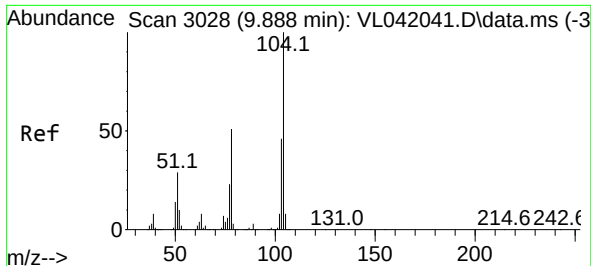
Tgt Ion: 91 Resp: 493069

Ion Ratio Lower Upper

91 100

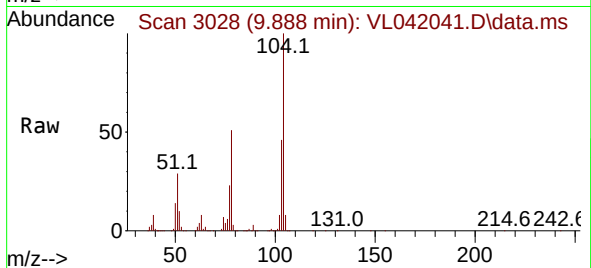
106 44.5 21.4 64.3





#61
Styrene
Concen: 7.912 ppbv
RT: 9.888 min Scan# 3028
Delta R.T. 0.004 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

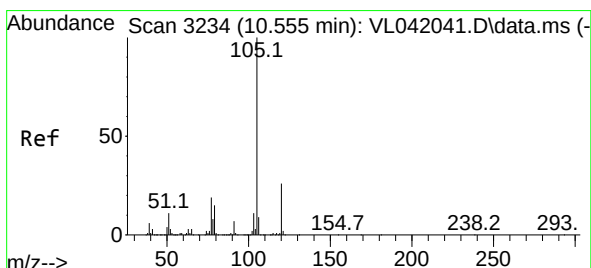
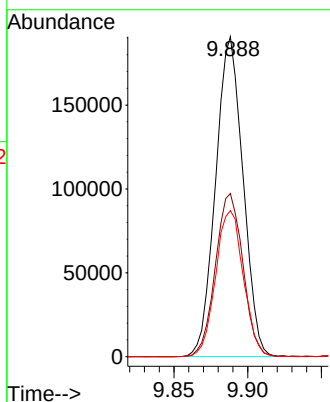
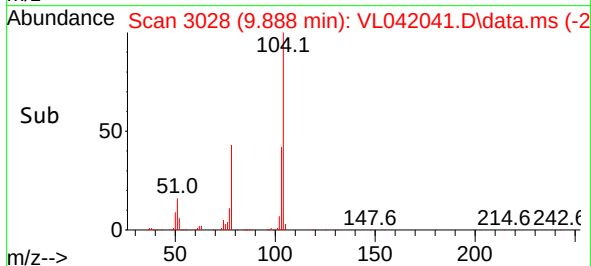
Instrument : MSVOA_L
ClientSampleId : VSTDICCC010



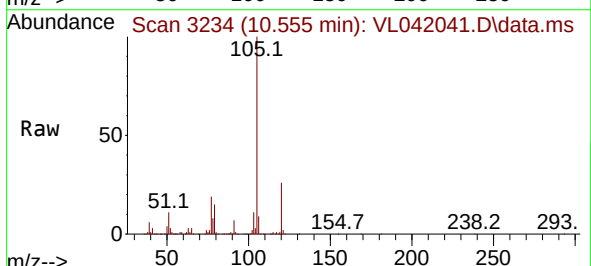
Tgt Ion:104 Resp: 24616
Ion Ratio Lower Upper
104 100
78 51.2 42.2 63.4
103 46.3 38.1 57.1

Manual Integrations
APPROVED

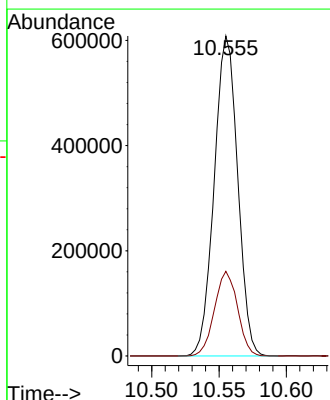
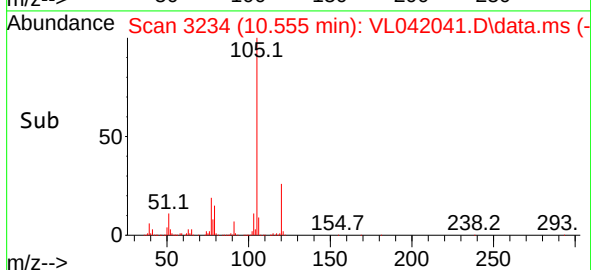
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025

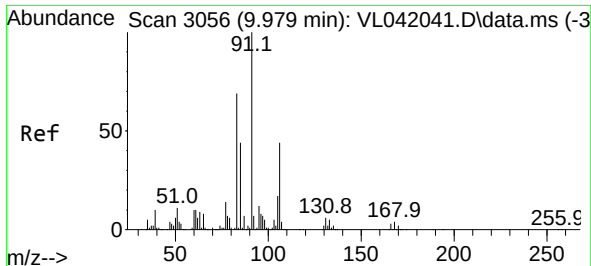


#62
Isopropylbenzene
Concen: 7.522 ppbv
RT: 10.555 min Scan# 3234
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56



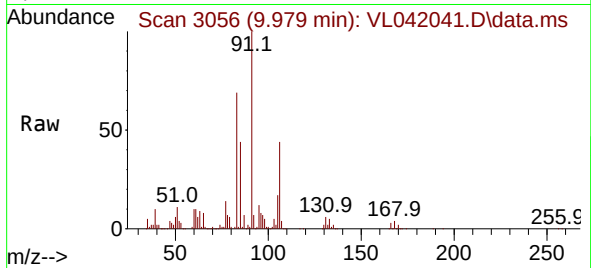
Tgt Ion:105 Resp: 736884
Ion Ratio Lower Upper
105 100
120 25.9 19.8 29.8





#63
1,1,2,2-Tetrachloroethane
Concen: 7.538 ppbv
RT: 9.979 min Scan# 3056
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

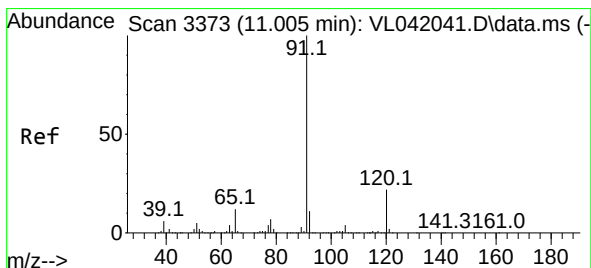
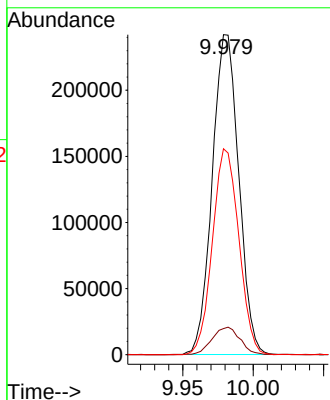
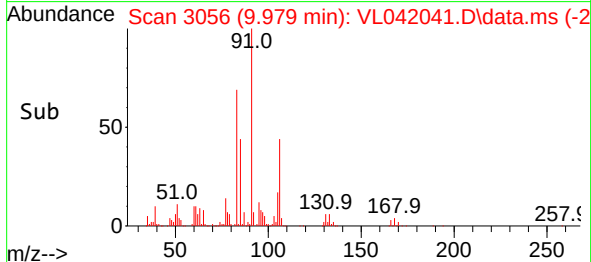
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 83 Resp: 31731
Ion Ratio Lower Upper
83 100
131 9.1 5.0 15.0
85 64.2 32.1 96.3

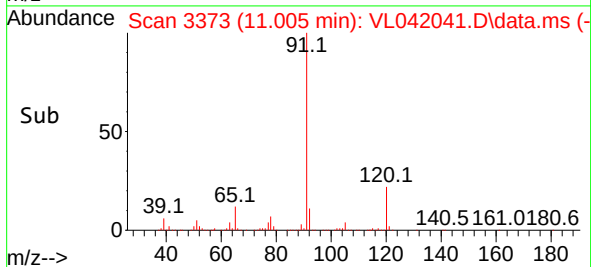
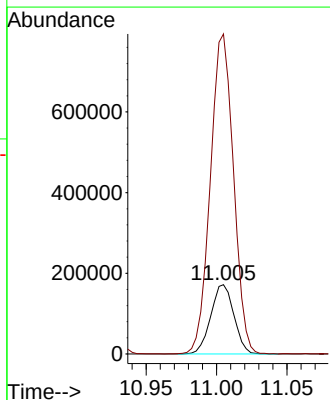
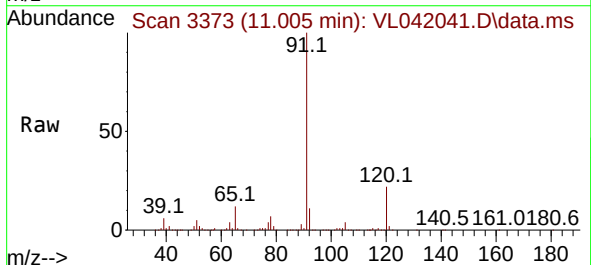
Manual Integrations
APPROVED

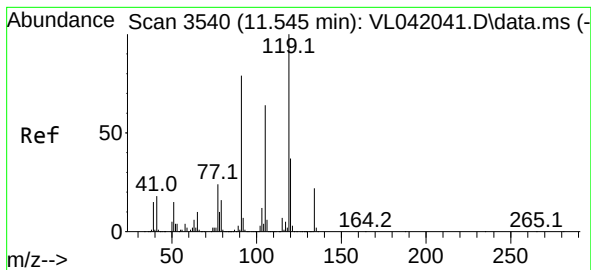
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025



#64
n-propylbenzene
Concen: 8.145 ppbv
RT: 11.005 min Scan# 3373
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion:120 Resp: 196044
Ion Ratio Lower Upper
120 100
91 463.3 392.2 588.2





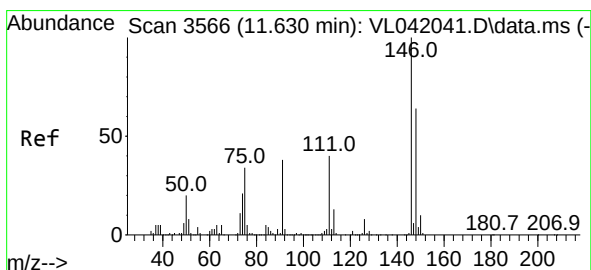
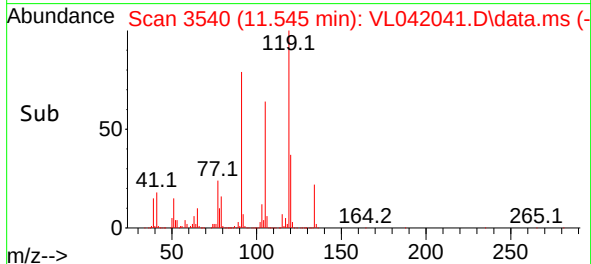
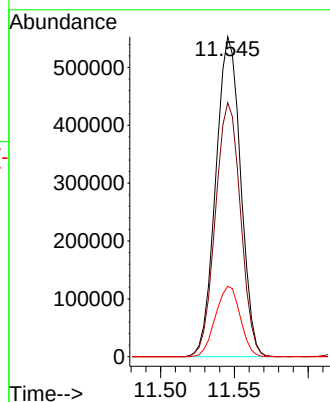
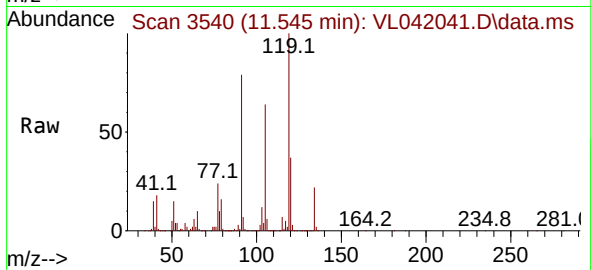
#65
tert-Butylbenzene
Concen: 7.596 ppbv
RT: 11.545 min Scan# 3540
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 119 Resp: 648698
Ion Ratio Lower Upper
119 100
91 80.2 66.5 99.7
134 21.8 16.6 24.8

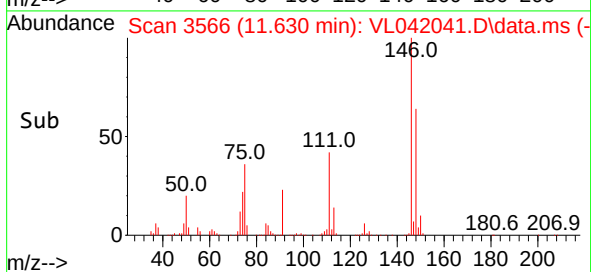
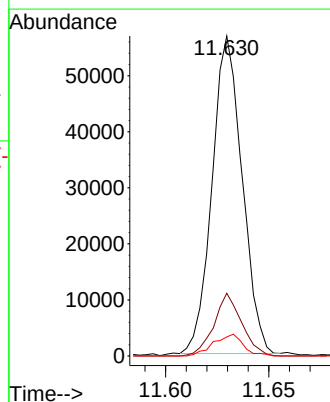
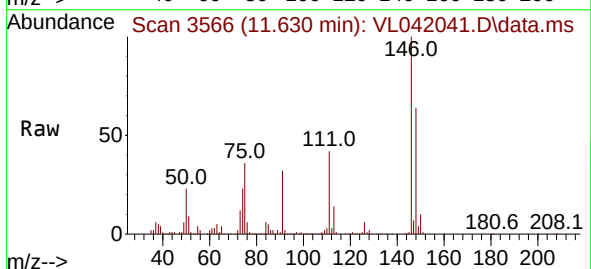
Manual Integrations
APPROVED

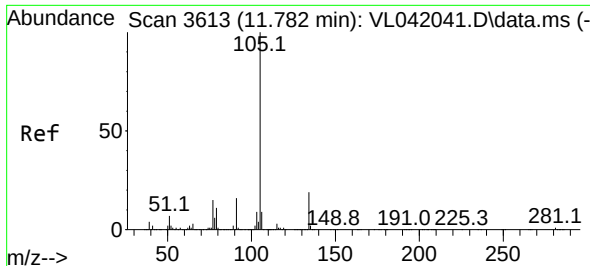
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025



#66
Benzyl Chloride
Concen: 6.699 ppbv
RT: 11.630 min Scan# 3566
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

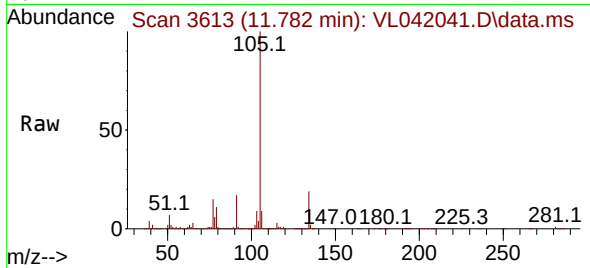
Tgt Ion: 91 Resp: 57345
Ion Ratio Lower Upper
91 100
126 18.1 13.8 20.6
128 6.8 4.1 6.1#





#67
 sec-Butylbenzene
 Concen: 7.744 ppbv
 RT: 11.782 min Scan# 3613
 Delta R.T. 0.000 min
 Lab File: VL042041.D
 Acq: 25 Feb 2025 08:56

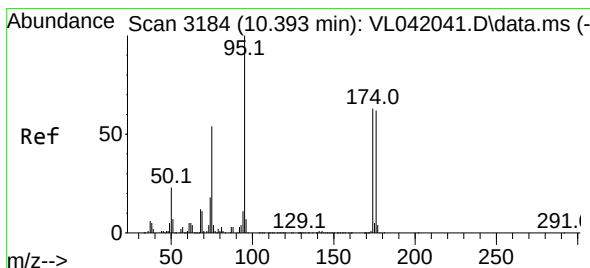
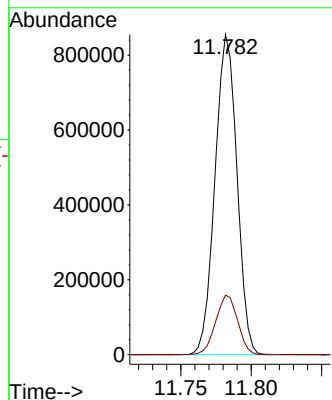
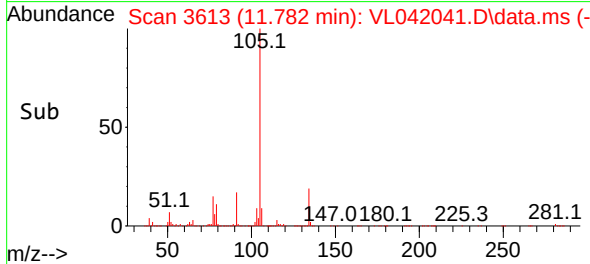
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



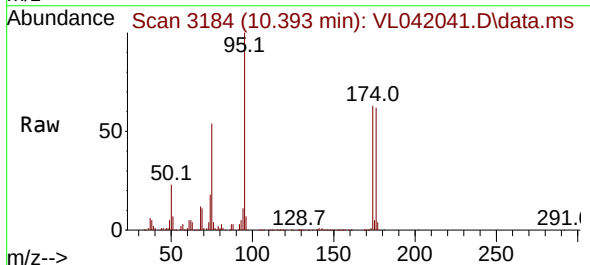
Tgt Ion:105 Resp: 92886
 Ion Ratio Lower Upper
 105 100
 134 18.6 14.7 22.1

Manual Integrations
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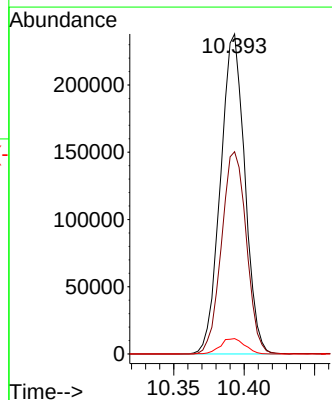
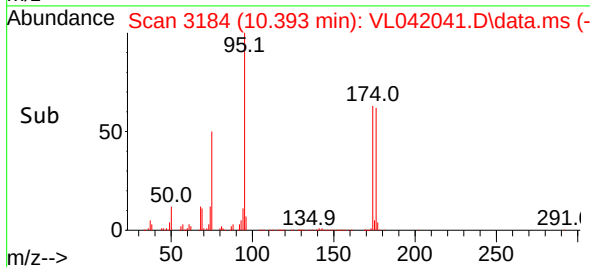
Reviewed By :Mahesh Dadoda 03/06/2025
 Supervised By :Semsettin Yesilyurt 03/06/2025

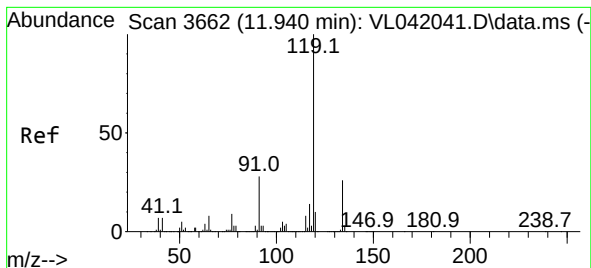


#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.263 ppbv
 RT: 10.393 min Scan# 3184
 Delta R.T. 0.003 min
 Lab File: VL042041.D
 Acq: 25 Feb 2025 08:56



Tgt Ion: 95 Resp: 285943
 Ion Ratio Lower Upper
 95 100
 174 64.7 46.7 70.1
 175 4.9 3.7 5.5





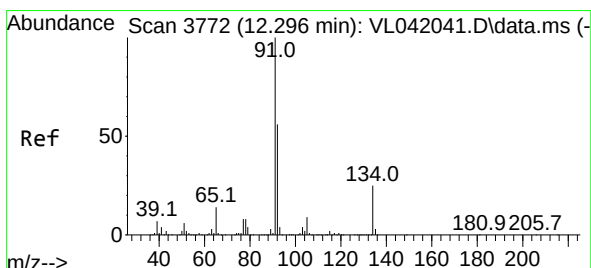
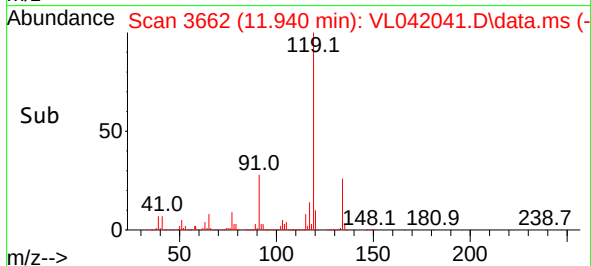
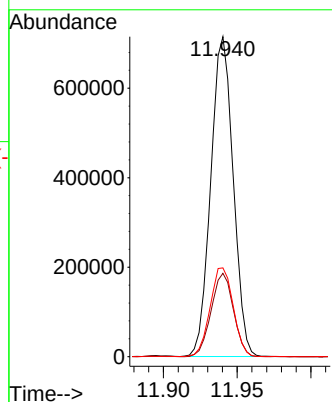
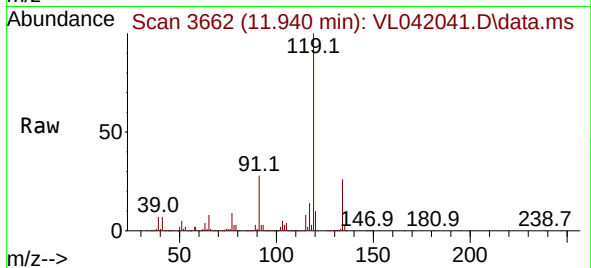
#69
p-Isopropyltoluene
Concen: 7.702 ppbv
RT: 11.940 min Scan# 3662
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:119 Resp: 756264
Ion Ratio Lower Upper
119 100
134 26.1 19.4 29.0
91 28.9 23.4 35.2

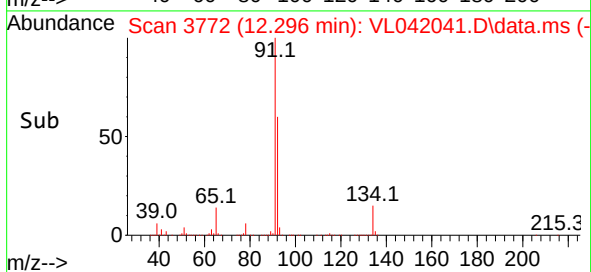
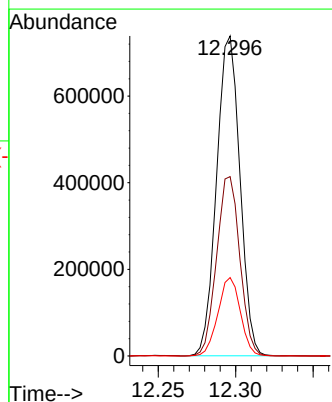
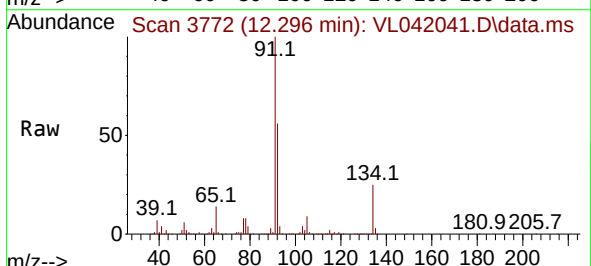
Manual Integrations
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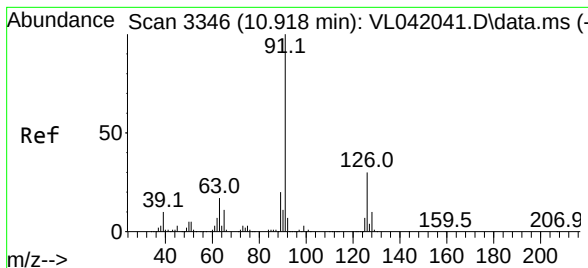
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025



#70
n-Butylbenzene
Concen: 8.009 ppbv
RT: 12.296 min Scan# 3772
Delta R.T. 0.004 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 91 Resp: 774646
Ion Ratio Lower Upper
91 100
92 55.9 43.8 65.8
134 23.6 18.6 27.8





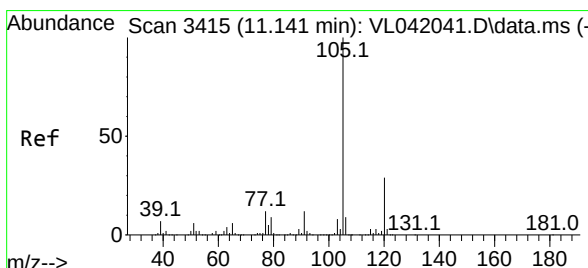
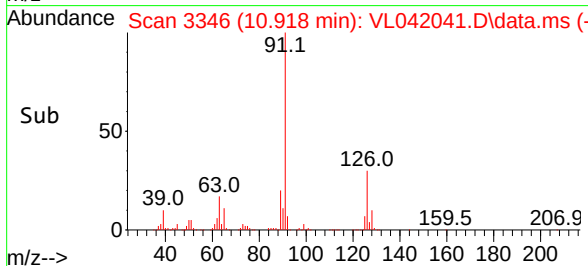
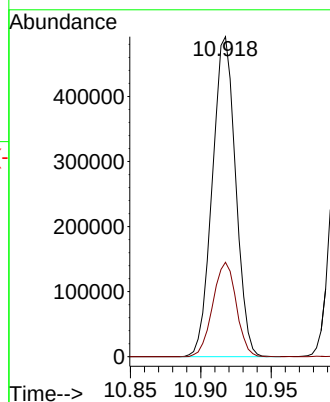
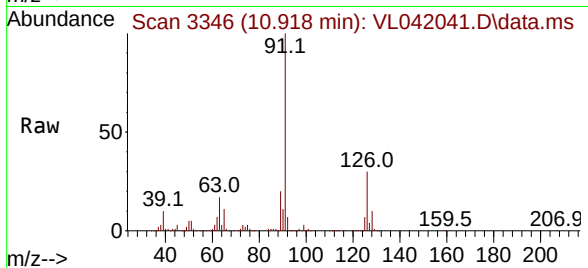
#71
2-Chlorotoluene
Concen: 7.681 ppbv
RT: 10.918 min Scan# 3346
Delta R.T. 0.003 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 91 Resp: 566619
Ion Ratio Lower Upper
91 100
126 29.7 11.2 45.0

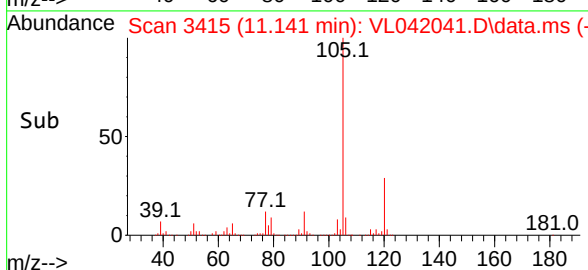
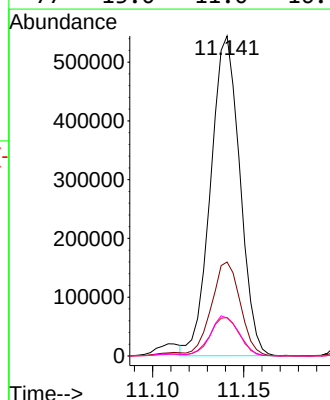
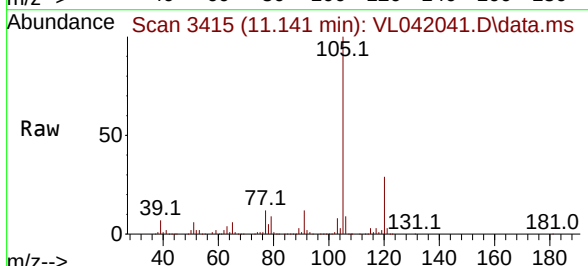
Manual Integrations
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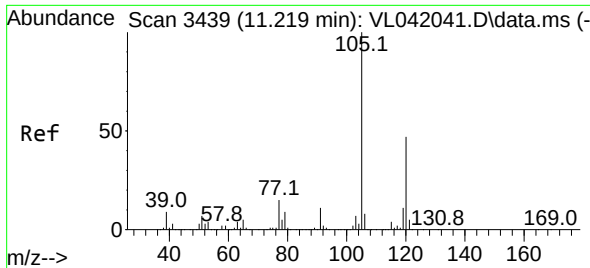
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025



#72
4-Ethyltoluene
Concen: 7.934 ppbv
RT: 11.141 min Scan# 3415
Delta R.T. 0.004 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion:105 Resp: 606538
Ion Ratio Lower Upper
105 100
120 30.1 22.7 34.1
91 12.8 10.2 15.2
77 13.0 11.0 16.4





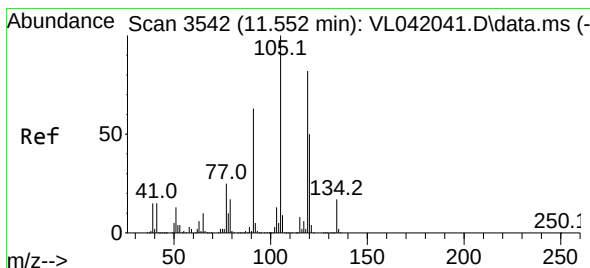
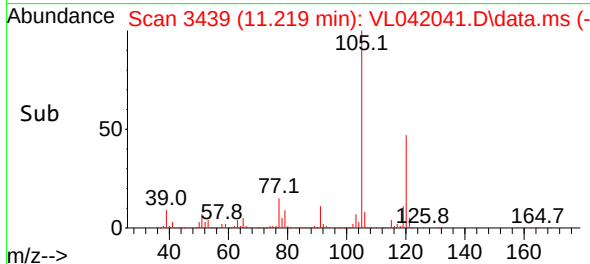
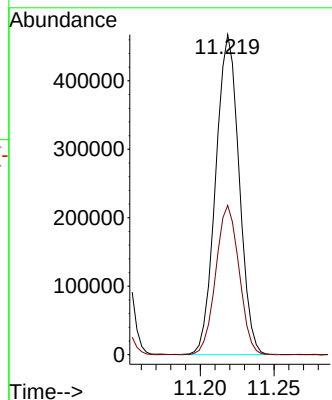
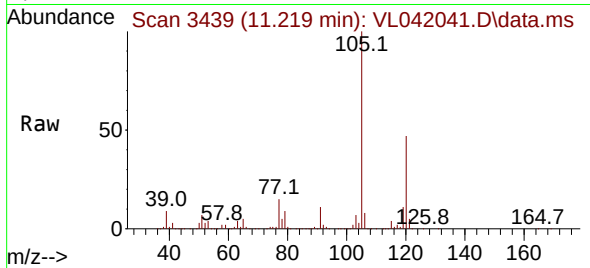
#73
 1,3,5-Trimethylbenzene
 Concen: 7.838 ppbv
 RT: 11.219 min Scan# 3439
 Delta R.T. 0.000 min
 Lab File: VL042041.D
 Acq: 25 Feb 2025 08:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tgt Ion:105 Resp: 51687
 Ion Ratio Lower Upper
 105 100
 120 46.7 37.1 55.7

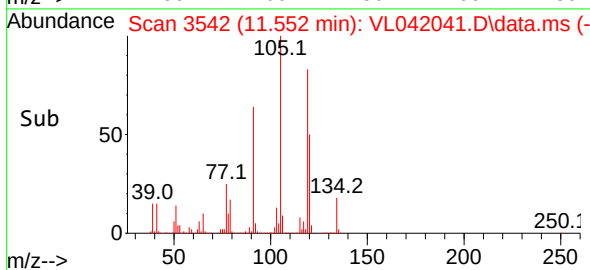
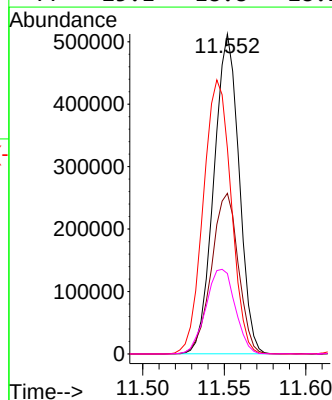
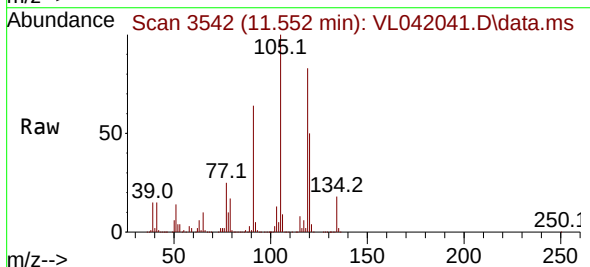
Manual Integrations
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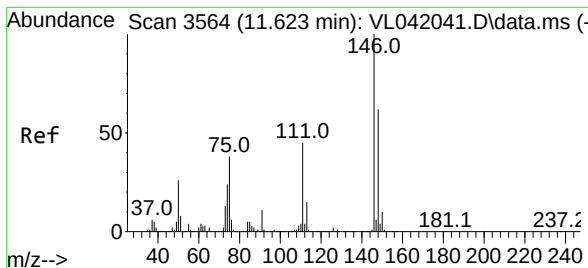
Reviewed By :Mahesh Dadoda 03/06/2025
 Supervised By :Semsettin Yesilyurt 03/06/2025



#74
 1,2,4-Trimethylbenzene
 Concen: 7.777 ppbv
 RT: 11.552 min Scan# 3542
 Delta R.T. 0.000 min
 Lab File: VL042041.D
 Acq: 25 Feb 2025 08:56

Tgt Ion:105 Resp: 550412
 Ion Ratio Lower Upper
 105 100
 120 50.2 37.5 56.3
 91 64.3 51.7 77.5
 77 25.1 18.8 28.2





#75

1,3-Dichlorobenzene

Concen: 8.535 ppbv

RT: 11.623 min Scan# 3564

Delta R.T. 0.000 min

Lab File: VL042041.D

Acq: 25 Feb 2025 08:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion:146 Resp: 325160

Ion Ratio Lower Upper

146 100

111 44.8 23.9 71.7

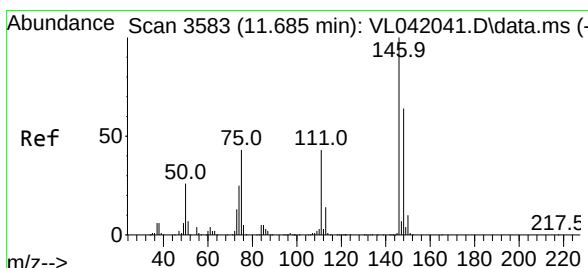
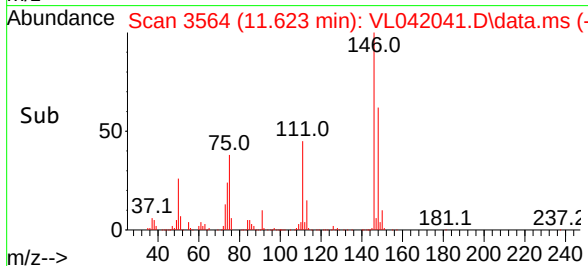
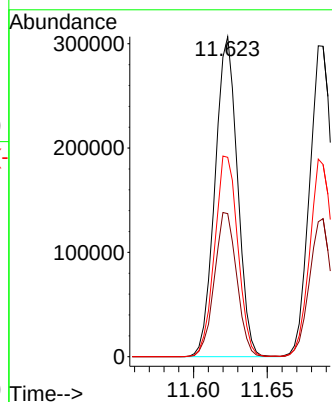
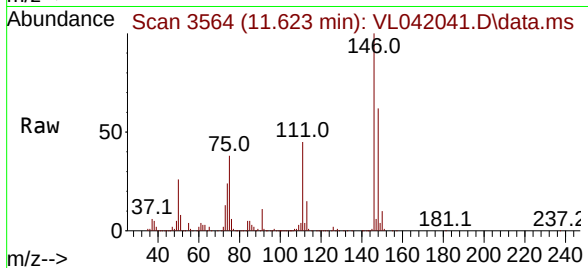
148 64.5 31.5 94.5

Manual Integrations

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Reviewed By :Mahesh Dadoda 03/06/2025

Supervised By :Semsettin Yesilyurt 03/06/2025



#76

1,4-Dichlorobenzene

Concen: 8.678 ppbv

RT: 11.685 min Scan# 3583

Delta R.T. 0.000 min

Lab File: VL042041.D

Acq: 25 Feb 2025 08:56

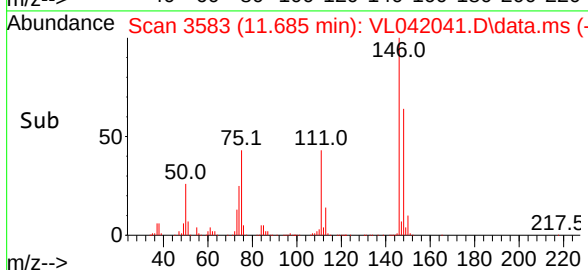
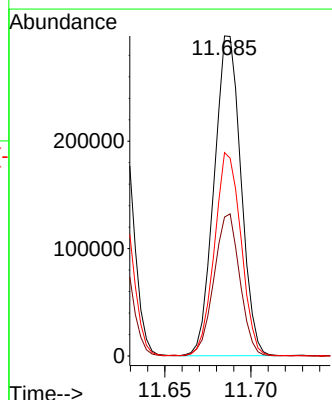
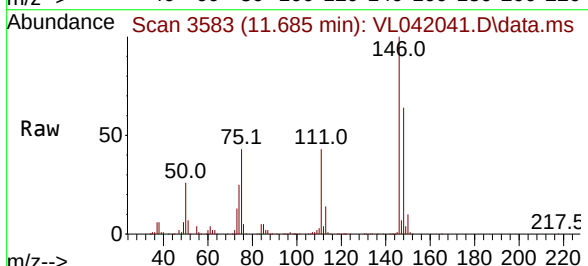
Tgt Ion:146 Resp: 322404

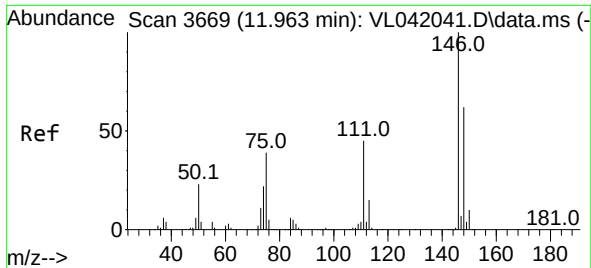
Ion Ratio Lower Upper

146 100

111 43.0 23.5 70.5

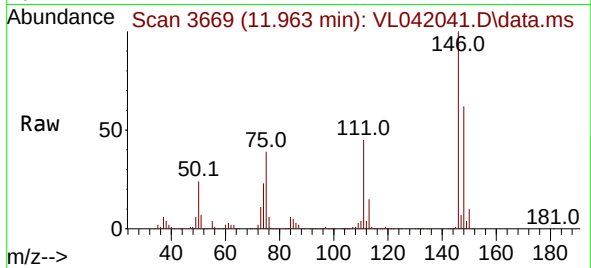
148 63.3 32.3 96.9





#77
1,2-Dichlorobenzene
Concen: 8.593 ppbv
RT: 11.963 min Scan# 3669
Delta R.T. 0.003 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

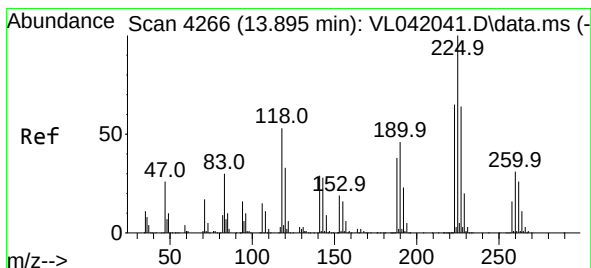
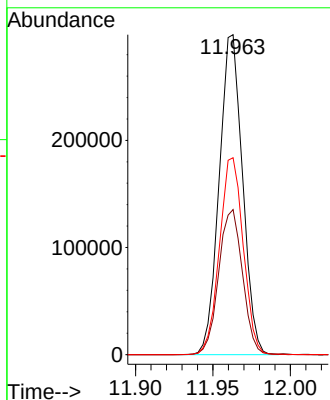
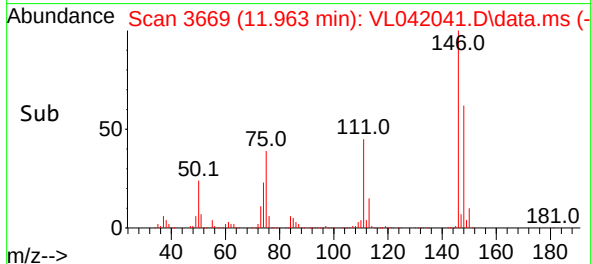
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



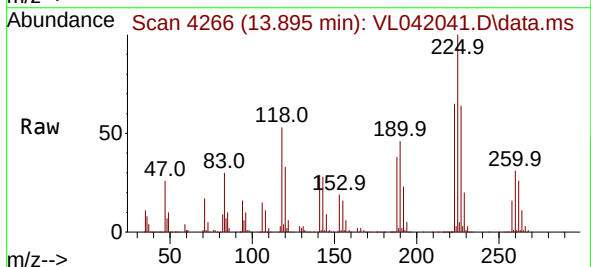
Tgt Ion:146 Resp: 31294
Ion Ratio Lower Upper
146 100
111 46.4 25.6 76.8
148 62.8 31.9 95.7

Manual Integrations
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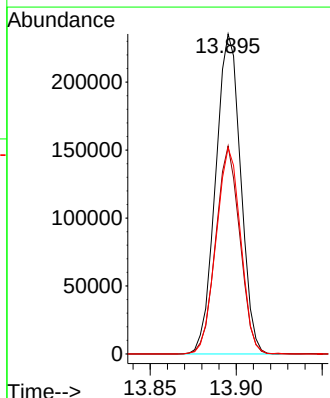
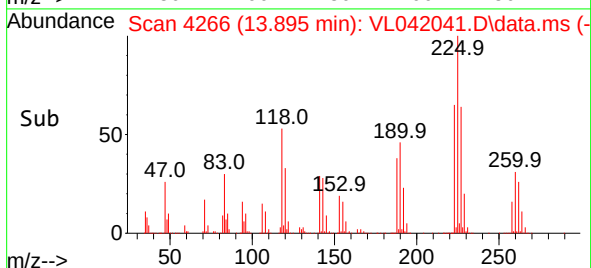
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025

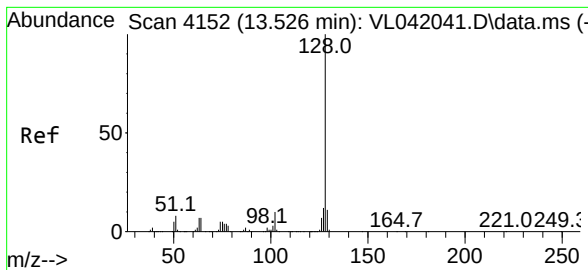


#78
Hexachloro-1,3-Butadiene
Concen: 7.907 ppbv
RT: 13.895 min Scan# 4266
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56



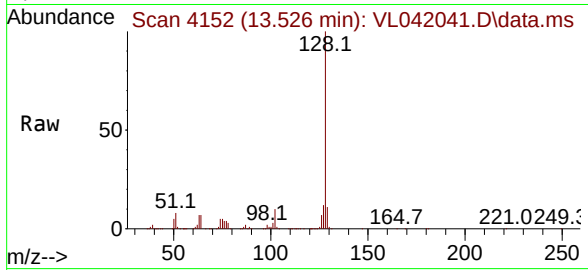
Tgt Ion:225 Resp: 238217
Ion Ratio Lower Upper
225 100
223 62.7 50.6 75.8
227 63.5 50.9 76.3





#79
Naphthalene
Concen: 7.372 ppbv
RT: 13.526 min Scan# 4152
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

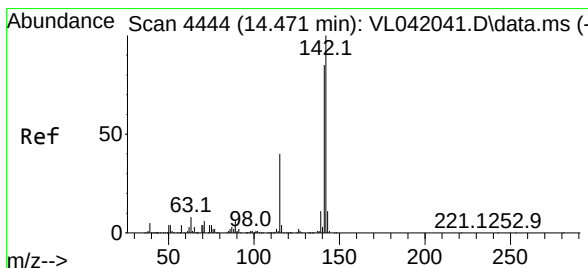
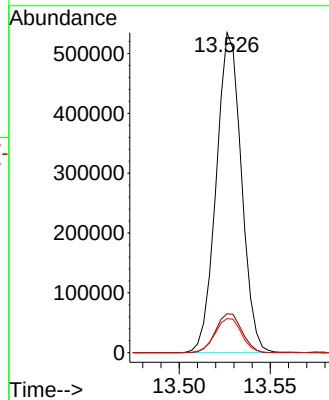
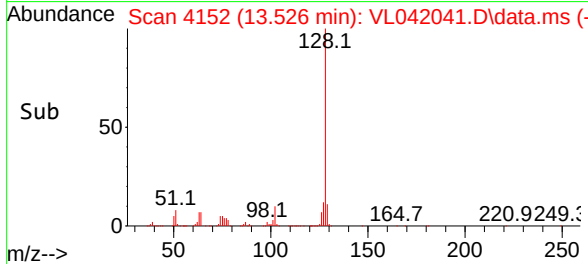
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



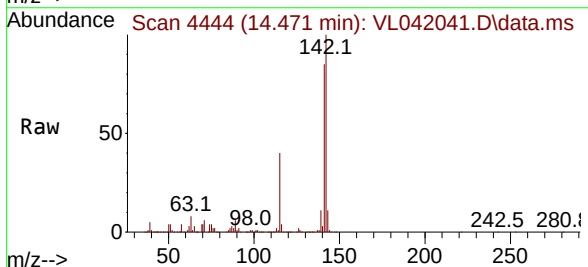
Tgt Ion:128 Resp: 513192
Ion Ratio Lower Upper
128 100
127 12.2 10.2 15.2
129 10.7 8.6 13.0

Manual Integrations
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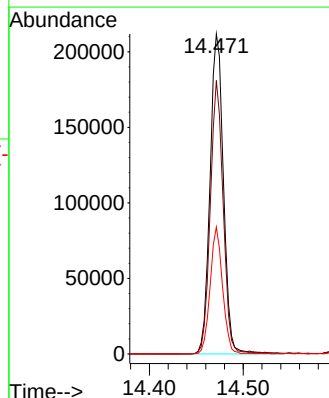
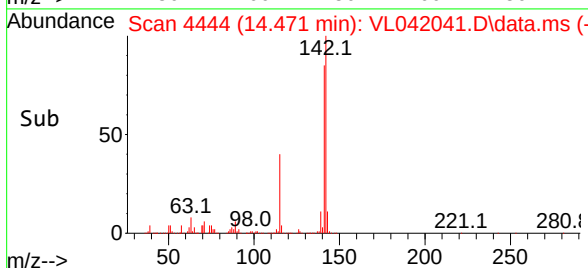
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025

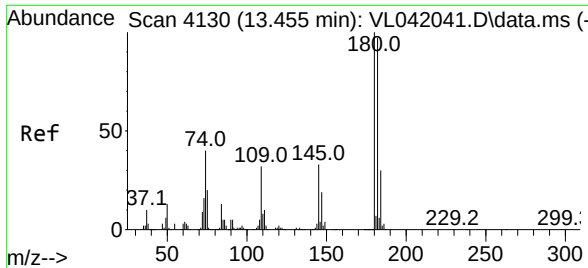


#80
Naphthalene,2-methyl-
Concen: 6.676 ppbv
RT: 14.471 min Scan# 4444
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56



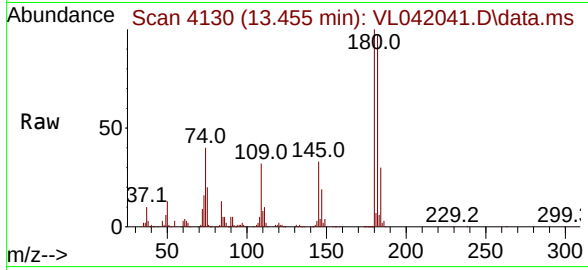
Tgt Ion:142 Resp: 210405
Ion Ratio Lower Upper
142 100
141 82.2 68.2 102.2
115 36.9 33.6 50.4





#81
 1,2,4-Trichlorobenzene
 Concen: 8.517 ppbv
 RT: 13.455 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL042041.D
 Acq: 25 Feb 2025 08:56

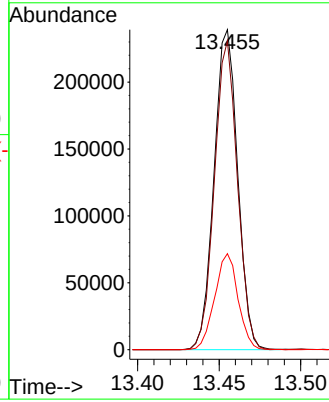
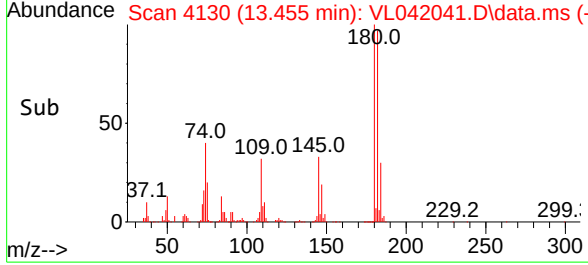
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



Tgt Ion:180 Resp: 24103
 Ion Ratio Lower Upper
 180 100
 182 93.9 75.8 113.6
 184 29.7 24.2 36.4

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 03/06/2025
 Supervised By :Semsettin Yesilyurt 03/06/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042042.D
 Acq On : 25 Feb 2025 09:29
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Quant Time: Feb 25 10:12:18 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

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

QLast Update : Tue Feb 18 00:13:37 2025

Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025
 Supervised By : Mahesh Dadoda 02/26/2025

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

Internal Standards						
1) Bromochloromethane	2.800	49	160999	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.981	114	427051	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.901	117	377910	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.393	95	289049	9.273	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.505	85	35122	1.267	ppbv	95
3) Chlorodifluoromethane	1.483	51	49423	1.613	ppbv	94
4) Chloromethane	1.538	50	12833	1.192	ppbv #	87
5) Vinyl Chloride	1.586	62	11611	0.902	ppbv	97
6) Bromomethane	1.674	94	5996	1.201	ppbv	97
7) Chloroethane	1.712	64	5014	1.195	ppbv	90
8) Dichlorotetrafluoroethane	1.560	85	29028	1.191	ppbv	99
9) Propene	1.489	41	20484	1.551	ppbv	95
10) Heptane	5.004	43	63098	1.720	ppbv	94
11) Trichlorofluoromethane	1.884	101	36041	1.292	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.149	101	27846	1.280	ppbv	90
13) Ethanol	1.729	45	1291	0.866	ppbv	91
14) Bromoethene	1.790	108	9642	1.187	ppbv	93
15) Acetone	1.842	43	30058	1.131	ppbv	100
16) 1,3-Butadiene	1.615	39	13471	1.069	ppbv	100
17) tert-Butyl alcohol	2.052	59	38684	1.176	ppbv	96
18) 1,1-Dichloroethene	2.043	96	12417	1.195	ppbv	93
19) Isopropyl Alcohol	1.894	45	17927	1.203	ppbv	96
20) Methylene Chloride	2.072	84	10587	1.058	ppbv #	80
21) Allyl Chloride	2.107	41	20564	1.069	ppbv	96
22) trans-1,2-Dichloroethene	2.350	96	14475	1.283	ppbv	81
23) Vinyl Acetate	2.473	43	22394	1.556	ppbv #	94
24) 1,1-Dichloroethane	2.421	63	27804	1.214	ppbv	99
25) Ethyl Acetate	2.852	43	121593	1.667	ppbv	100
26) Hexane	2.839	57	48912	1.671	ppbv	98
27) Carbon Disulfide	2.159	76	33222	1.207	ppbv #	57
28) Methyl tert-Butyl Ether	2.457	73	26968	1.507	ppbv	100
29) Chloroform	2.865	83	63463	1.497	ppbv	92
30) Cyclohexane	3.878	84	40420	1.702	ppbv	98
31) cis-1,2-Dichloroethene	2.732	61	46690	1.614	ppbv	96
32) 1,1,1-Trichloroethane	3.386	97	62586	1.331	ppbv	97
34) 2-Butanone	2.573	43	69370	1.888	ppbv	96
35) Carbon Tetrachloride	3.784	117	61895	1.493	ppbv	97
36) Benzene	3.677	78	94277	1.822	ppbv	98
37) 1,2-Dichloroethane	3.237	62	51050	1.734	ppbv	99
38) Trichloroethene	4.574	130	38184	1.817	ppbv	99
39) 1,2-Dichloropropane	4.341	63	35396	1.866	ppbv	95
40) 1,4-Dioxane	4.622	88	15442	1.565	ppbv #	28
41) Tetrahydrofuran	3.075	42	40365	1.922	ppbv	96
42) Bromodichloromethane	4.512	83	69154	1.733	ppbv	94
43) Methyl Methacrylate	4.910	69	36393	1.543	ppbv	94
44) 2,2,4-Trimethylpentane	4.664	57	166945	1.901	ppbv	97
45) t-1,3-Dichloropropene	6.448	75	35707	1.604	ppbv	93

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042042.D
 Acq On : 25 Feb 2025 09:29
 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 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 10:12:18 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

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

QLast Update : Tue Feb 18 00:13:37 2025

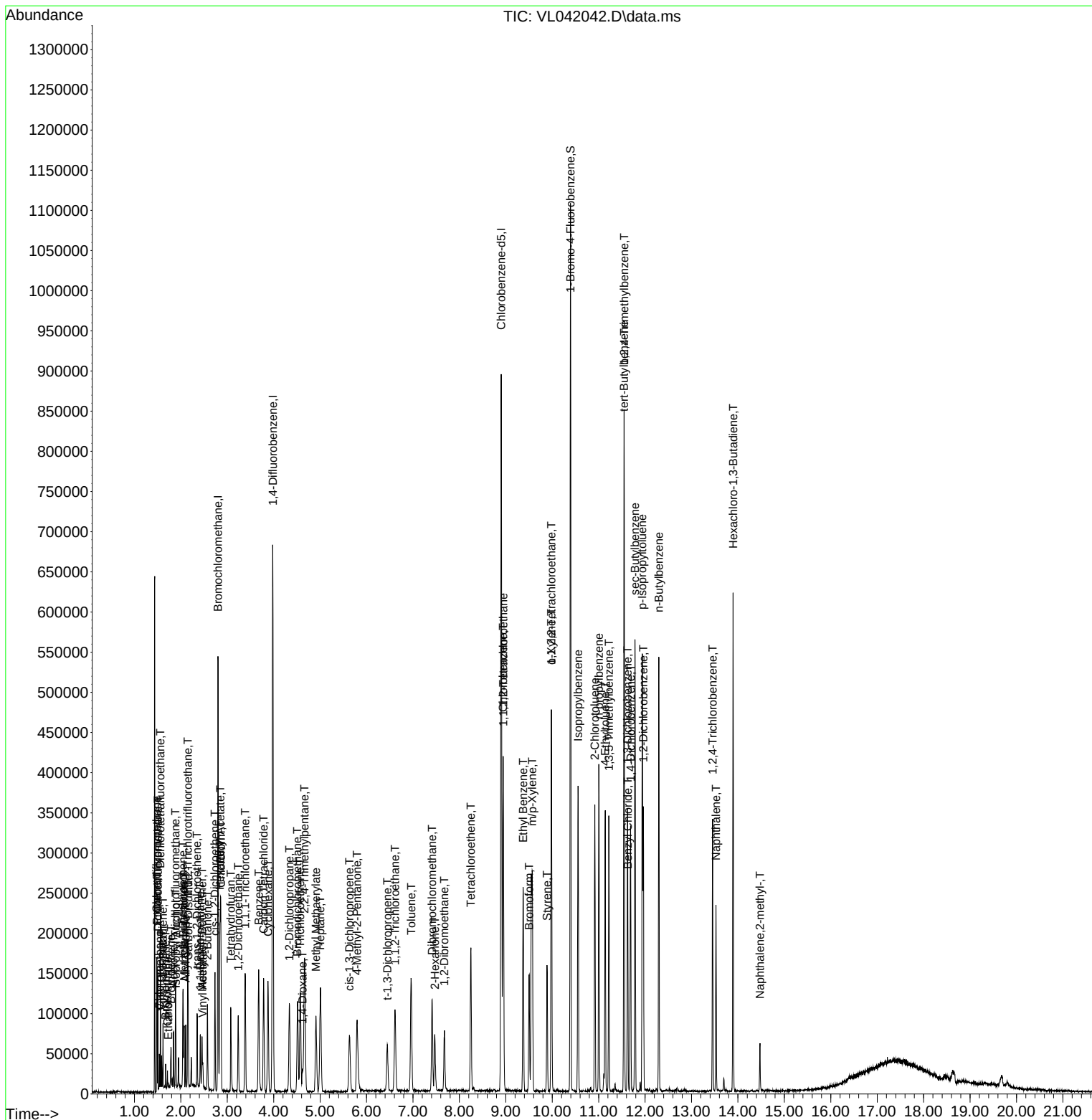
Response via : Initial Calibration

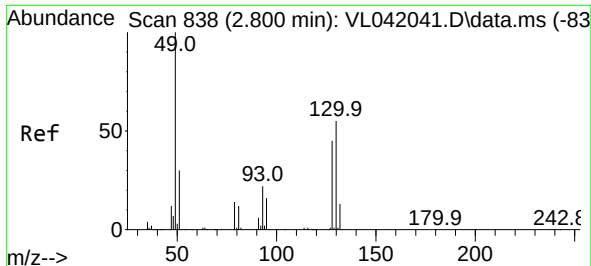
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.632	75	46835	1.658	ppbv	93
47) 1,1,2-Trichloroethane	6.613	97	36368	1.822	ppbv	93
48) Dibromochloromethane	7.412	129	56931	1.703	ppbv	99
49) Bromoform	9.503	173	50259	1.833	ppbv	99
50) 4-Methyl-2-Pentanone	5.797	43	83246	1.474	ppbv	99
51) 2-Hexanone	7.470	43	51926	1.124	ppbv #	94
52) Tetrachloroethene	8.244	164	32874	1.822	ppbv	95
53) Toluene	6.962	91	109646	1.779	ppbv	98
54) 1,2-Dibromoethane	7.678	107	50010	1.820	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.946	131	44947	1.662	ppbv	98
57) Chlorobenzene	8.943	112	84749	1.906	ppbv	95
58) Ethyl Benzene	9.374	91	149185	1.804	ppbv	99
59) m/p-Xylene	9.568	91	238800m	3.666	ppbv	
60) o-Xylene	9.982	91	119170	1.809	ppbv	97
61) Styrene	9.888	104	55798	1.776	ppbv	96
62) Isopropylbenzene	10.555	105	181311	1.833	ppbv	97
63) 1,1,2,2-Tetrachloroethane	9.982	83	77911	1.833	ppbv	96
64) n-propylbenzene	11.005	120	47764	1.965	ppbv	92
65) tert-Butylbenzene	11.545	119	167973	1.948	ppbv	96
66) Benzyl Chloride	11.630	91	12304	1.423	ppbv #	98
67) sec-Butylbenzene	11.782	105	240504	1.986	ppbv	99
69) p-Isopropyltoluene	11.940	119	194660	1.963	ppbv	99
70) n-Butylbenzene	12.296	91	194416	1.991	ppbv	99
71) 2-Chlorotoluene	10.917	91	140068	1.880	ppbv	98
72) 4-Ethyltoluene	11.141	105	150038	1.944	ppbv	98
73) 1,3,5-Trimethylbenzene	11.218	105	128202	1.925	ppbv	99
74) 1,2,4-Trimethylbenzene	11.549	105	150380	2.104	ppbv #	88
75) 1,3-Dichlorobenzene	11.623	146	81884	2.129	ppbv	98
76) 1,4-Dichlorobenzene	11.688	146	82560	2.201	ppbv	97
77) 1,2-Dichlorobenzene	11.963	146	80367	2.186	ppbv	96
78) Hexachloro-1,3-Butadiene	13.895	225	63815	2.098	ppbv	99
79) Naphthalene	13.526	128	102197	1.454	ppbv	98
80) Naphthalene,2-methyl-	14.475	142	18104	0.569	ppbv	94
81) 1,2,4-Trichlorobenzene	13.455	180	57798	2.023	ppbv	98

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

Manual Integrations

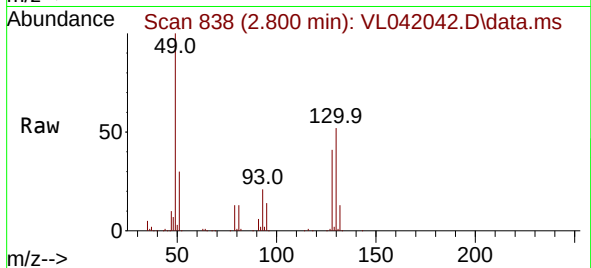
Quant Time: Feb 25 10:12:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Feb 18 00:13:37 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 838
Delta R.T. -0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

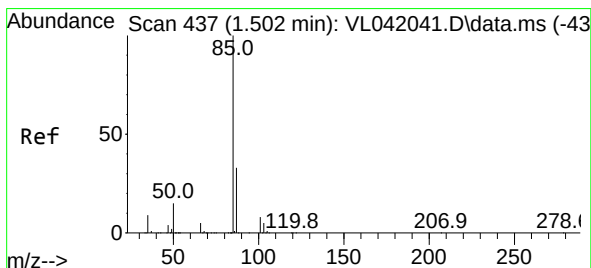
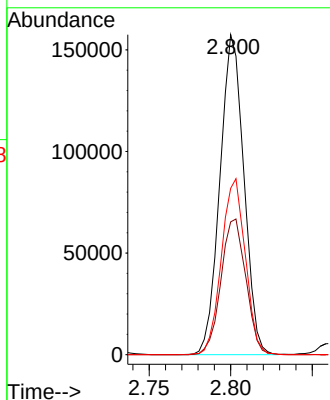
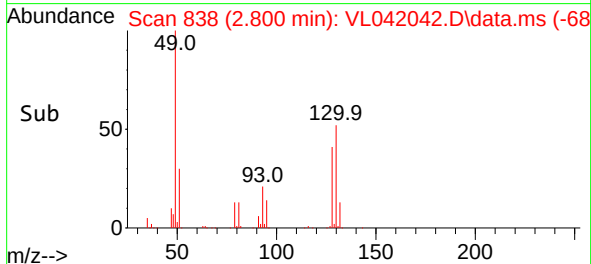
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



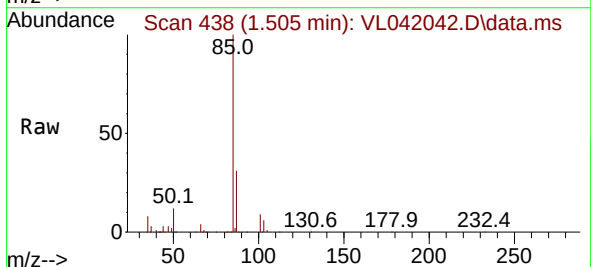
Tgt Ion: 49 Resp: 16099
Ion Ratio Lower Upper
49 100
128 44.0 22.7 68.0
130 54.7 29.9 89.8

Manual Integrations
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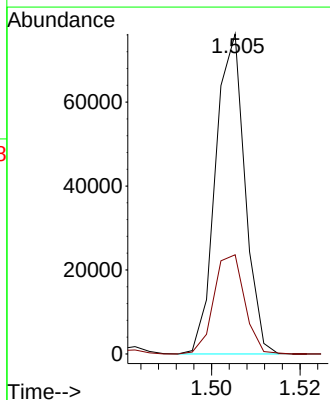
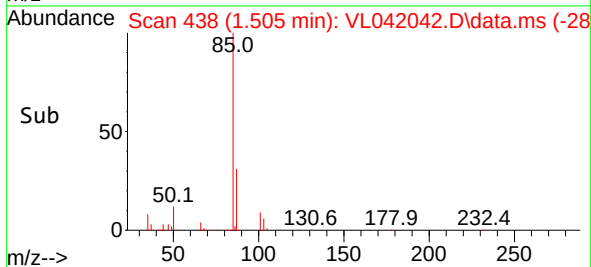
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

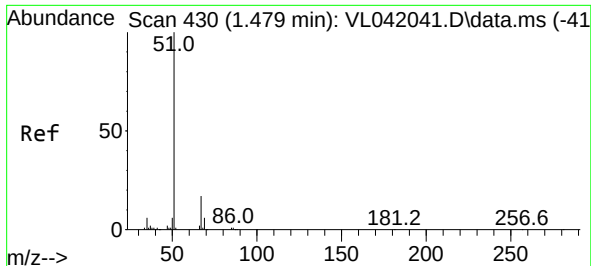


#2
Dichlorodifluoromethane
Concen: 1.267 ppbv
RT: 1.505 min Scan# 438
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29



Tgt Ion: 85 Resp: 35122
Ion Ratio Lower Upper
85 100
87 31.0 26.9 40.3





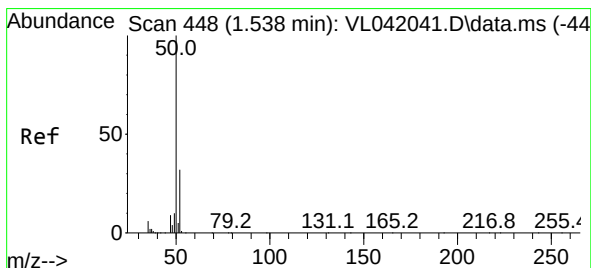
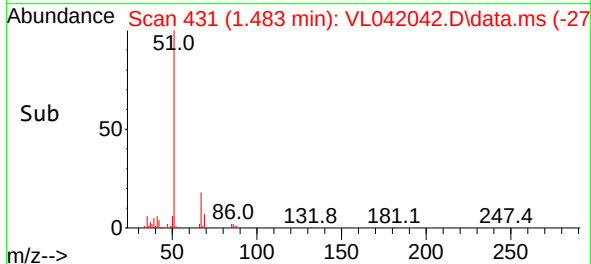
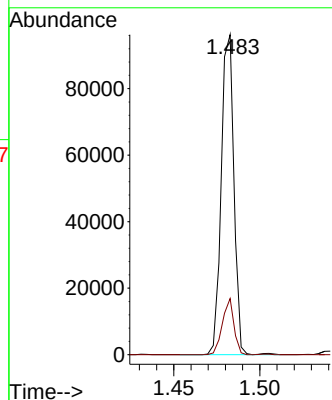
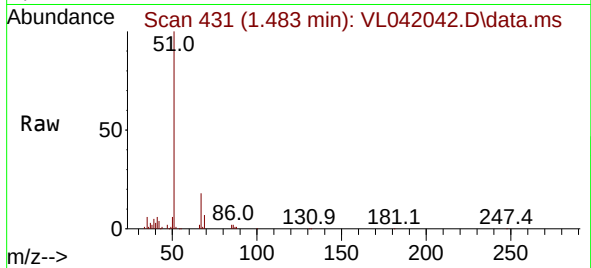
#3
Chlorodifluoromethane
Concen: 1.613 ppbv
RT: 1.483 min Scan# 431
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 51 Resp: 4942
Ion Ratio Lower Upper
51 100
67 16.1 15.0 22.6

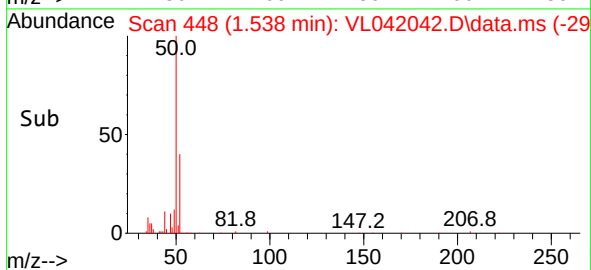
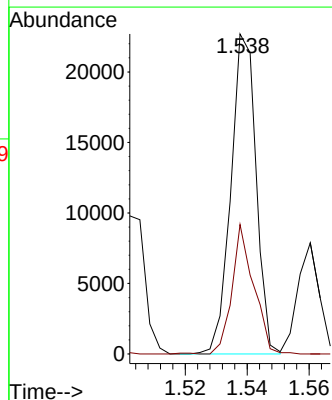
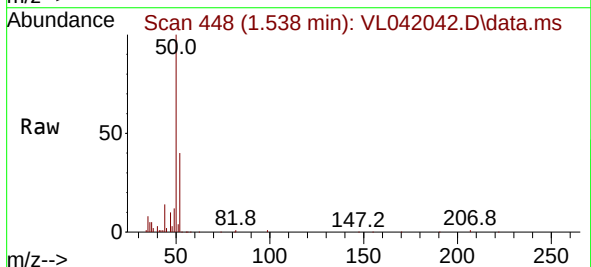
Manual Integrations
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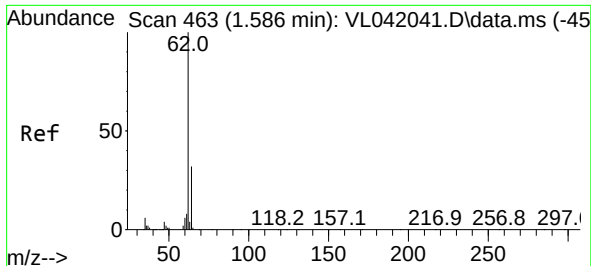
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#4
Chloromethane
Concen: 1.192 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

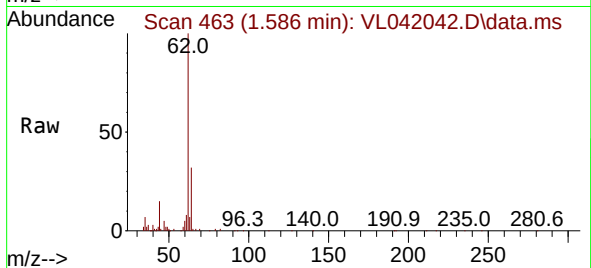
Tgt Ion: 50 Resp: 12833
Ion Ratio Lower Upper
50 100
52 40.2 26.2 39.2#





#5
 Vinyl Chloride
 Concen: 0.902 ppbv
 RT: 1.586 min Scan# 40
 Delta R.T. 0.000 min
 Lab File: VL042042.D
 Acq: 25 Feb 2025 09:29

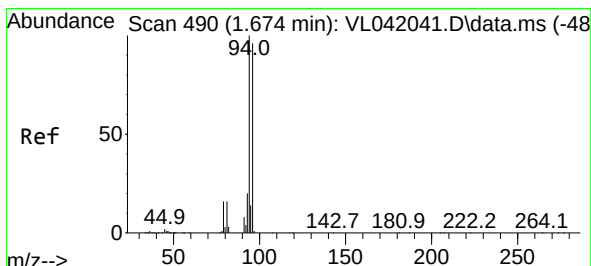
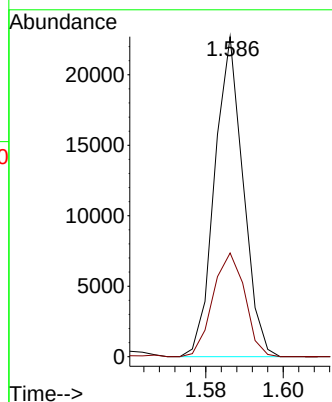
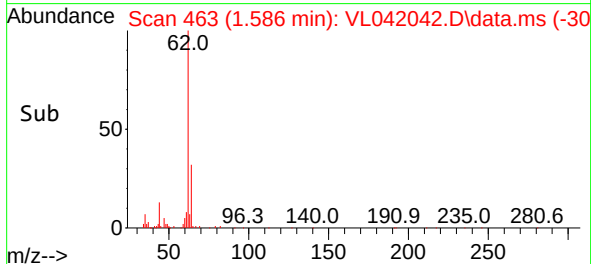
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002



Tgt Ion: 62 Resp: 1161
 Ion Ratio Lower Upper
 62 100
 64 32.4 24.4 36.6

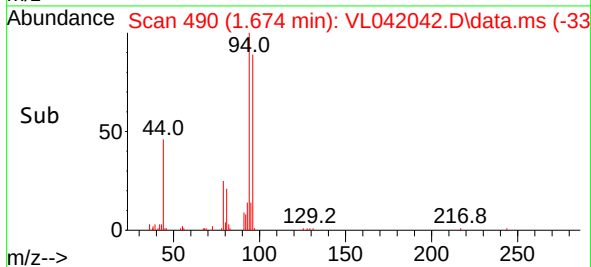
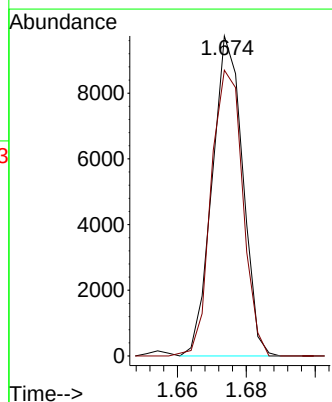
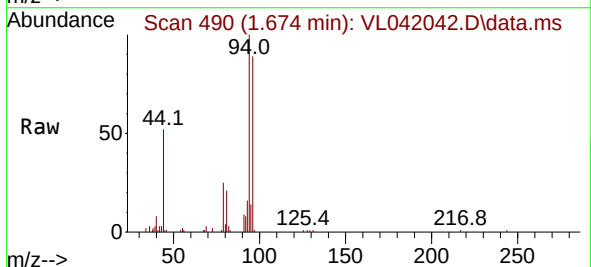
Manual Integrations
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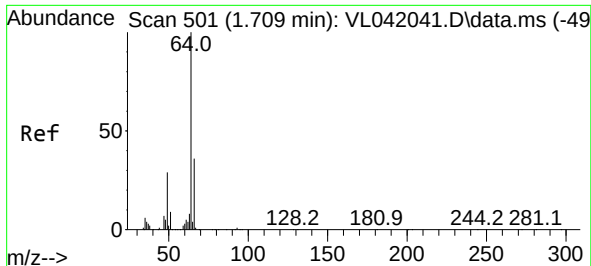
Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025



#6
 Bromomethane
 Concen: 1.201 ppbv
 RT: 1.674 min Scan# 490
 Delta R.T. 0.000 min
 Lab File: VL042042.D
 Acq: 25 Feb 2025 09:29

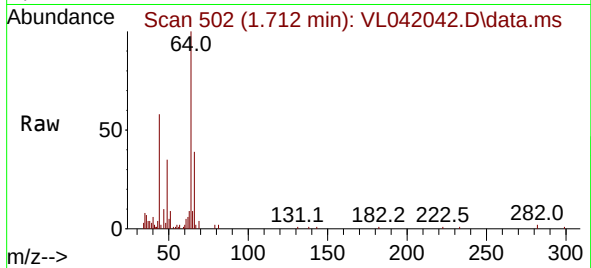
Tgt Ion: 94 Resp: 5996
 Ion Ratio Lower Upper
 94 100
 96 89.3 69.0 103.6





#7
Chloroethane
Concen: 1.195 ppbv
RT: 1.712 min Scan# 501
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

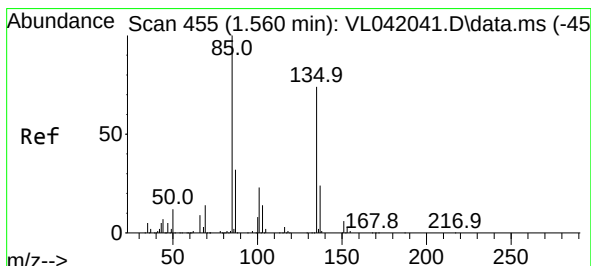
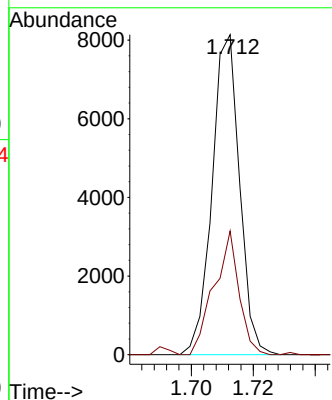
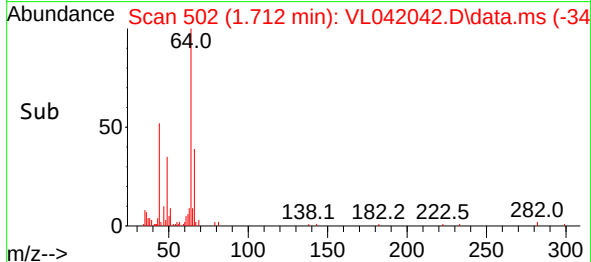
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



Tgt Ion: 64 Resp: 5014
Ion Ratio Lower Upper
64 100
66 38.7 26.5 39.7

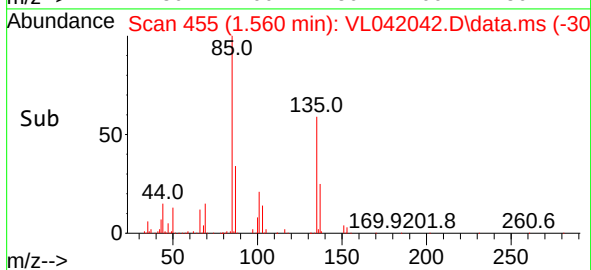
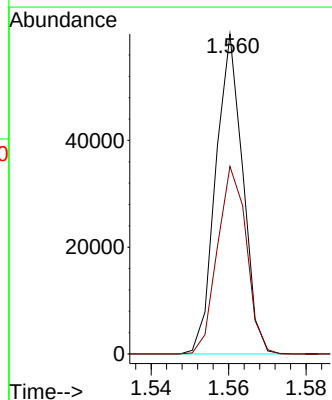
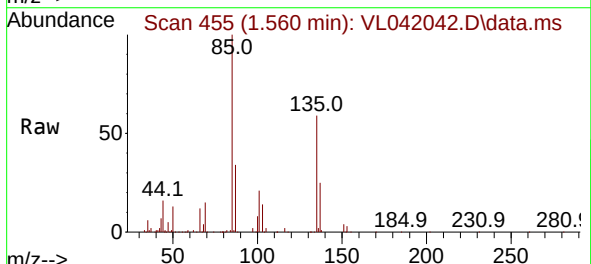
Manual Integrations
APPROVED

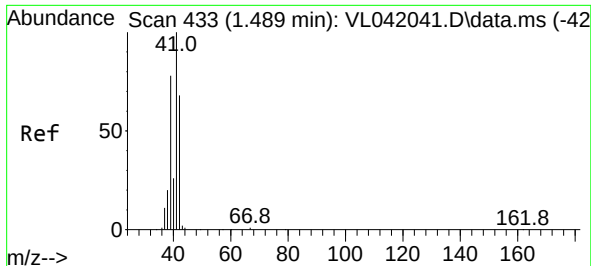
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#8
Dichlorotetrafluoroethane
Concen: 1.191 ppbv
RT: 1.560 min Scan# 455
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

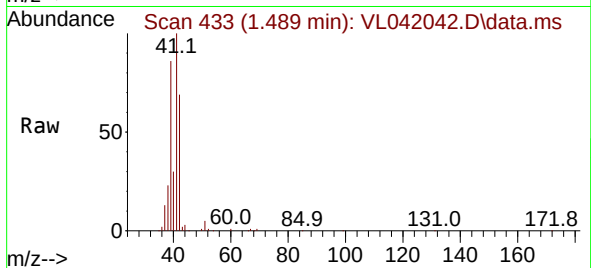
Tgt Ion: 85 Resp: 29028
Ion Ratio Lower Upper
85 100
135 63.1 50.9 76.3





#9
Propene
Concen: 1.551 ppbv
RT: 1.489 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

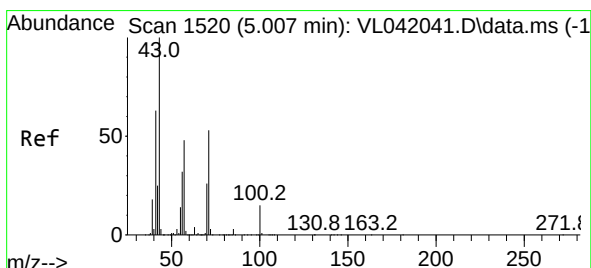
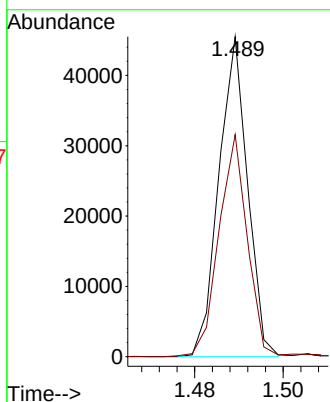
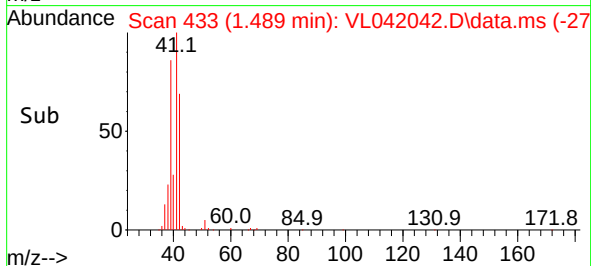
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



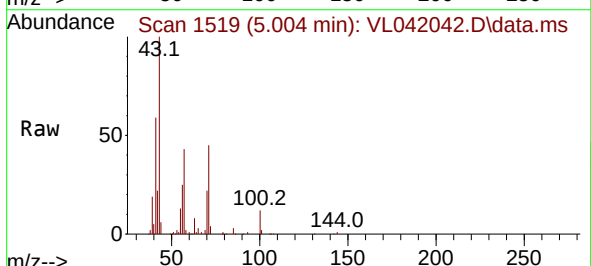
Tgt Ion: 41 Resp: 20484
Ion Ratio Lower Upper
41 100
42 70.7 53.5 80.3

Manual Integrations
APPROVED

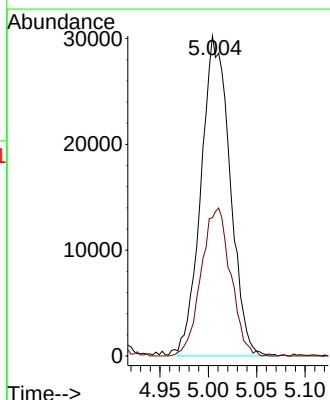
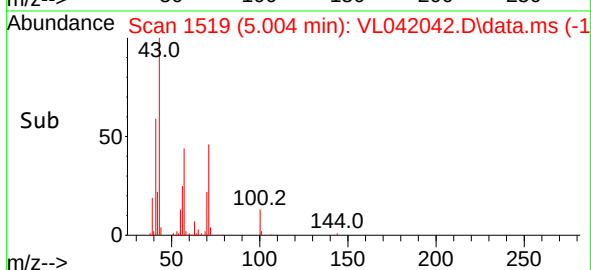
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

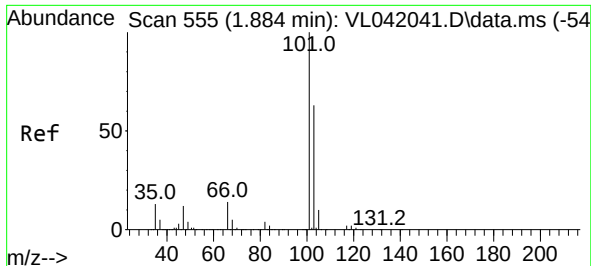


#10
Heptane
Concen: 1.720 ppbv
RT: 5.004 min Scan# 1519
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29



Tgt Ion: 43 Resp: 63098
Ion Ratio Lower Upper
43 100
57 47.0 41.0 61.6





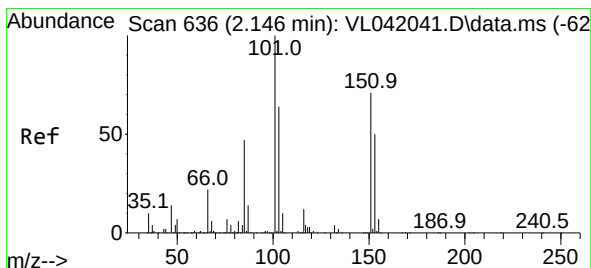
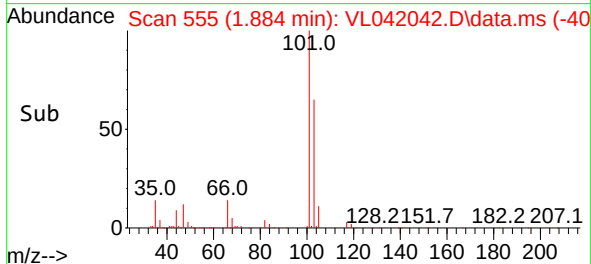
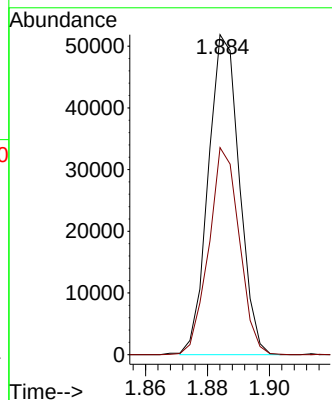
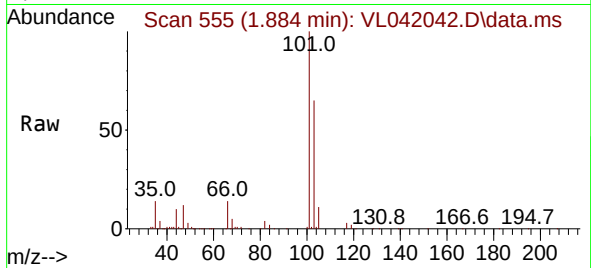
#11
Trichlorofluoromethane
Concen: 1.292 ppbv
RT: 1.884 min Scan# 511
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion:101 Resp: 3604
Ion Ratio Lower Upper
101 100
103 64.6 52.9 79.3

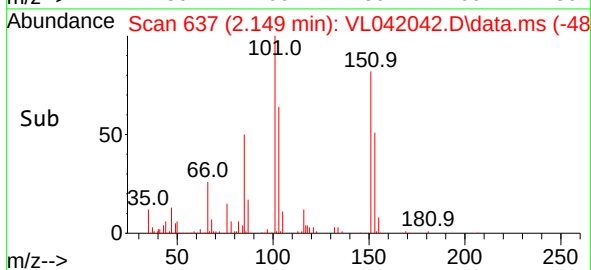
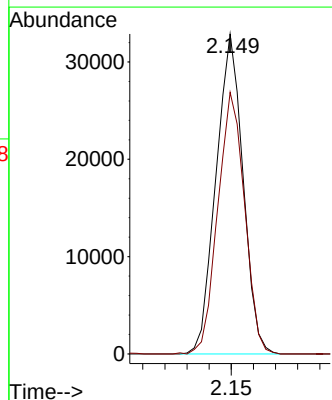
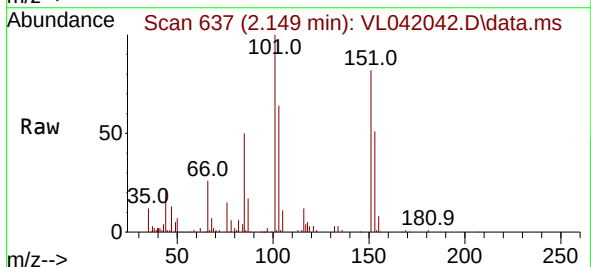
Manual Integrations
APPROVED

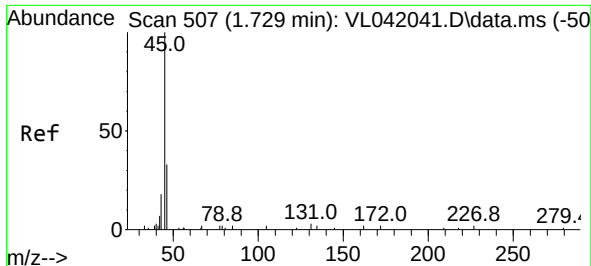
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#12
1,1,2-Trichlorotrifluoroethane
Concen: 1.280 ppbv
RT: 2.149 min Scan# 637
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion:101 Resp: 27846
Ion Ratio Lower Upper
101 100
151 81.3 58.2 87.2





#13

Ethanol

Concen: 0.866 ppbv

RT: 1.729 min Scan# 507

Delta R.T. 0.000 min

Lab File: VL042042.D

Acq: 25 Feb 2025 09:29

Instrument :

MSVOA_L

ClientSampleId :

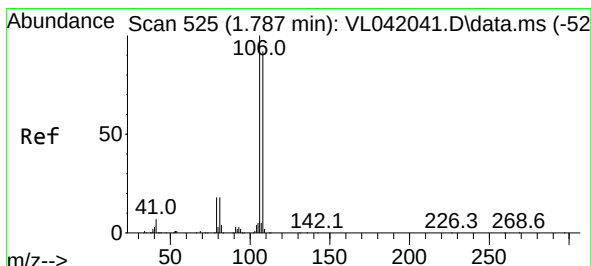
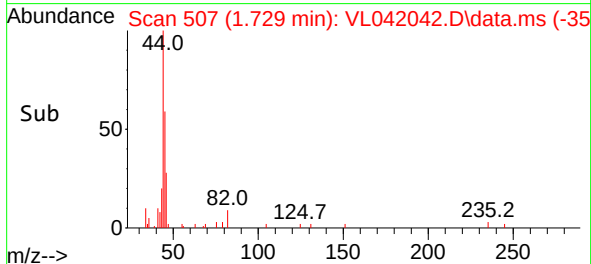
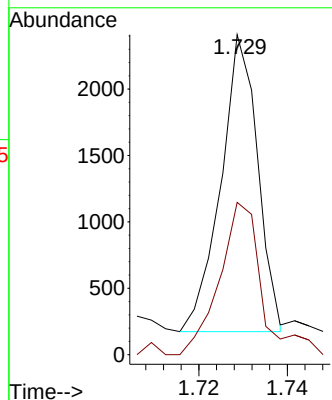
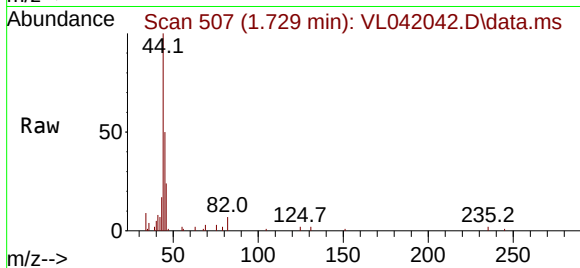
VSTDIC002

Tgt Ion: 45 Resp: 129
 Ion Ratio Lower Upper
 45 100
 46 59.8 21.3 85.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025



#14

Bromoethene

Concen: 1.187 ppbv

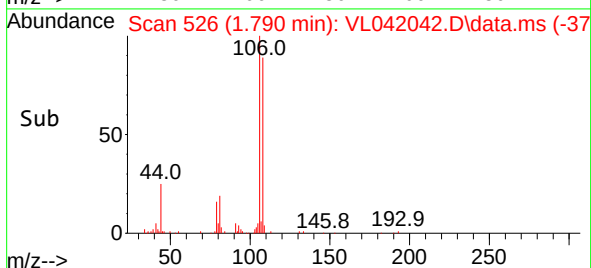
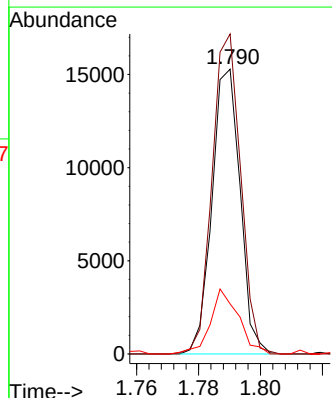
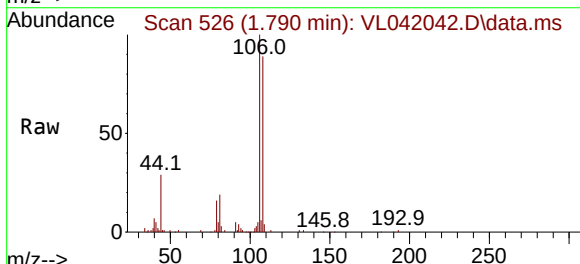
RT: 1.790 min Scan# 526

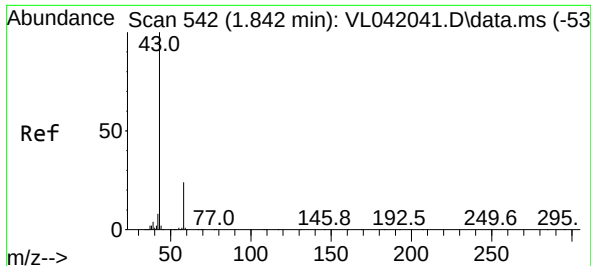
Delta R.T. 0.003 min

Lab File: VL042042.D

Acq: 25 Feb 2025 09:29

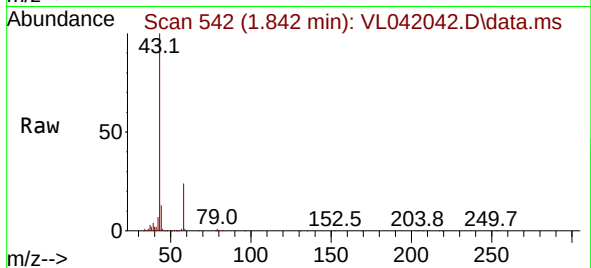
Tgt Ion:108 Resp: 9642
 Ion Ratio Lower Upper
 108 100
 106 114.2 85.0 127.6
 79 23.8 17.3 25.9





#15
Acetone
Concen: 1.131 ppbv
RT: 1.842 min Scan# 542
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

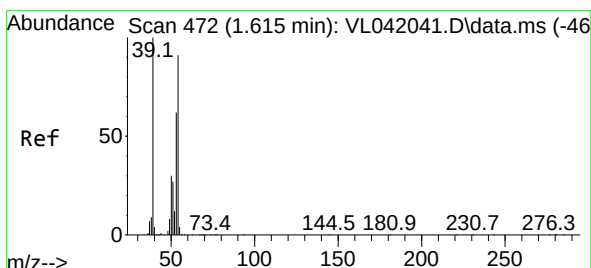
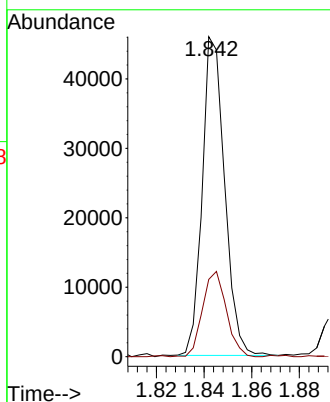
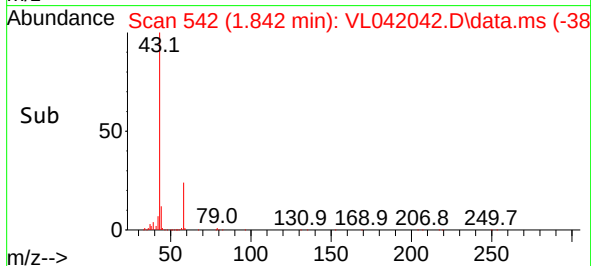
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



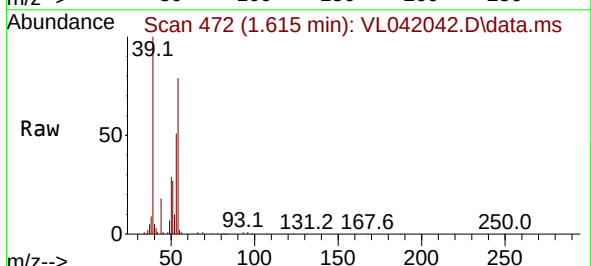
Tgt Ion: 43 Resp: 30058
Ion Ratio Lower Upper
43 100
58 28.8 22.9 34.3

Manual Integrations
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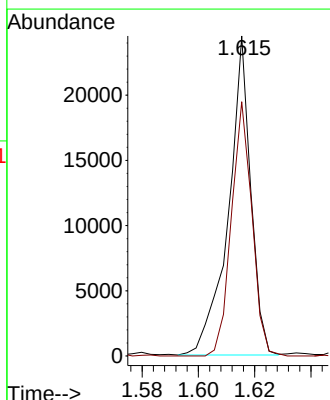
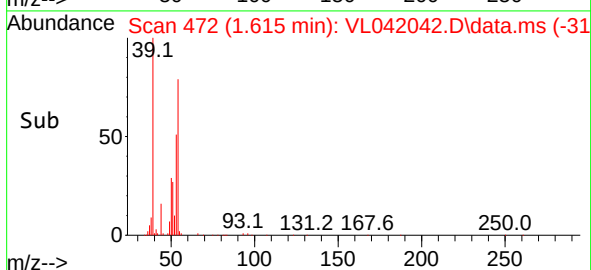
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

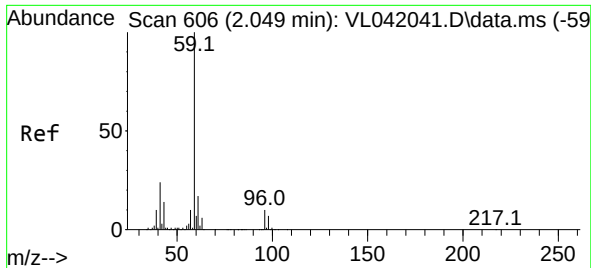


#16
1,3-Butadiene
Concen: 1.069 ppbv
RT: 1.615 min Scan# 472
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29



Tgt Ion: 39 Resp: 13471
Ion Ratio Lower Upper
39 100
54 74.0 59.4 89.2





#17

tert-Butyl alcohol

Concen: 1.176 ppbv

RT: 2.052 min Scan# 607

Delta R.T. 0.003 min

Lab File: VL042042.D

Acq: 25 Feb 2025 09:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

Tgt Ion: 59 Resp: 38684

Ion Ratio Lower Upper

59 100

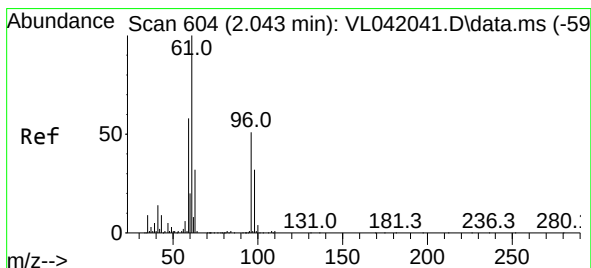
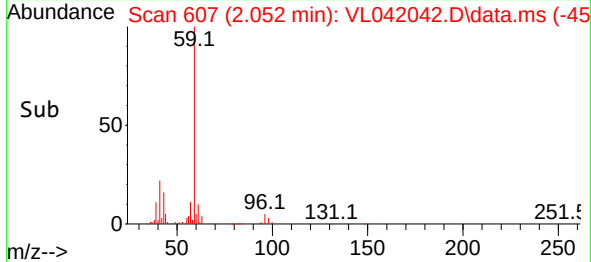
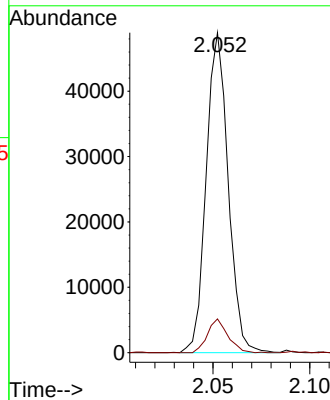
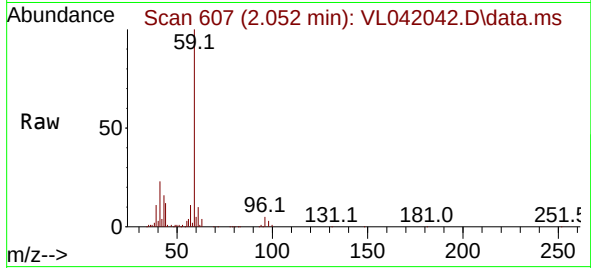
57 9.9 9.2 13.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 02/26/2025

Supervised By :Mahesh Dadoda 02/26/2025



#18

1,1-Dichloroethene

Concen: 1.195 ppbv

RT: 2.043 min Scan# 604

Delta R.T. 0.000 min

Lab File: VL042042.D

Acq: 25 Feb 2025 09:29

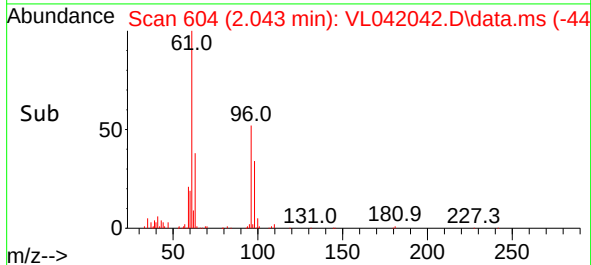
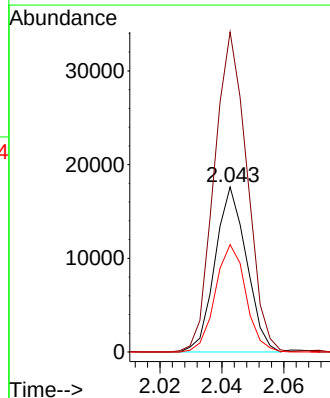
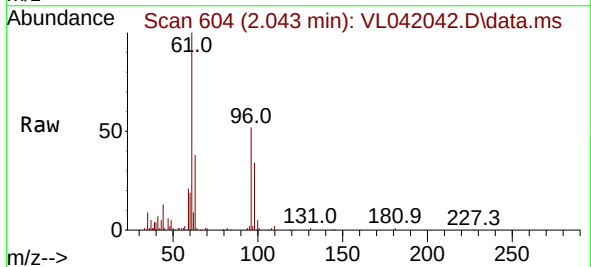
Tgt Ion: 96 Resp: 12417

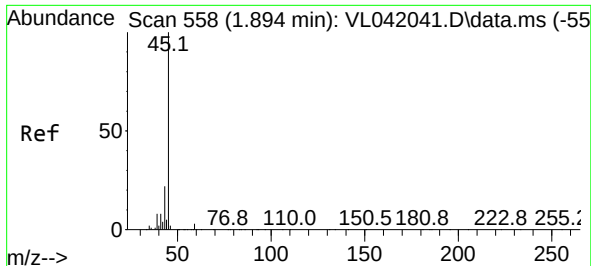
Ion Ratio Lower Upper

96 100

61 193.2 163.5 245.3

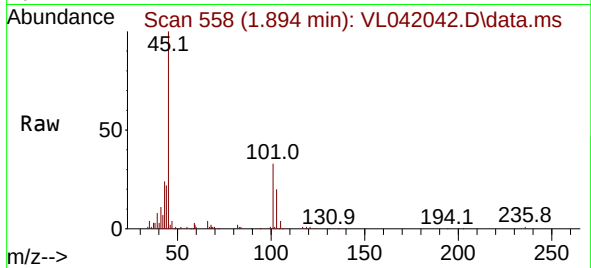
98 65.1 49.4 74.0





#19
Isopropyl Alcohol
Concen: 1.203 ppbv
RT: 1.894 min Scan# 558
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

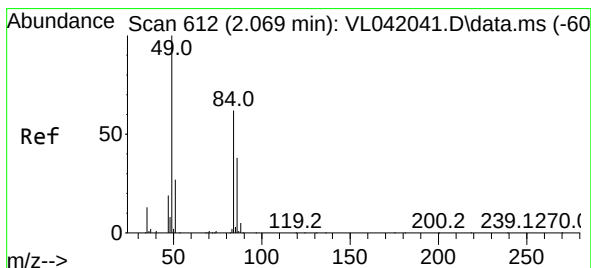
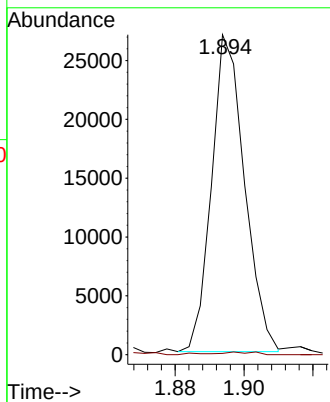
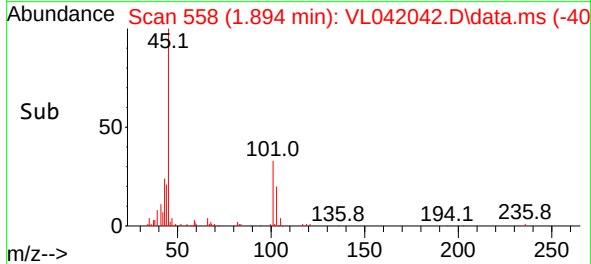
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



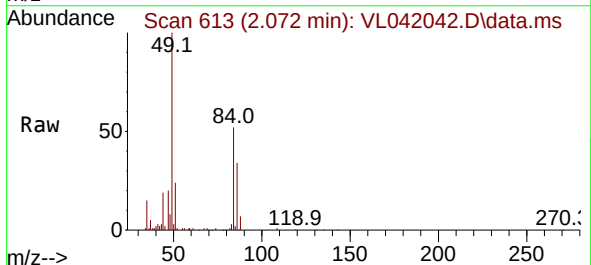
Tgt Ion: 45 Resp: 1792
Ion Ratio Lower Upper
45 100
58 48.2 36.2 54.4

Manual Integrations
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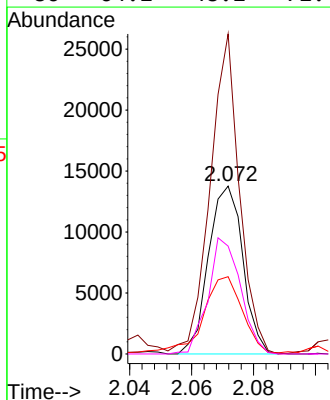
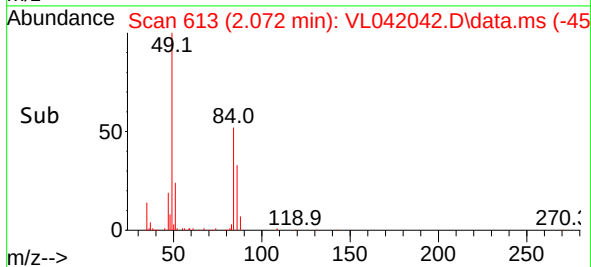
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

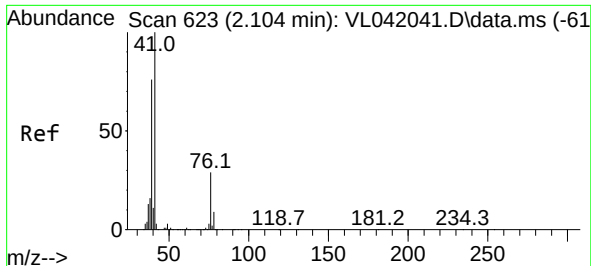


#20
Methylene Chloride
Concen: 1.058 ppbv
RT: 2.072 min Scan# 613
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29



Tgt Ion: 84 Resp: 10587
Ion Ratio Lower Upper
84 100
49 190.7 121.0 181.4#
51 45.4 35.1 52.7
86 64.2 48.2 72.4





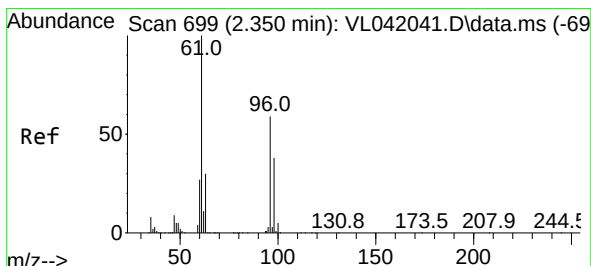
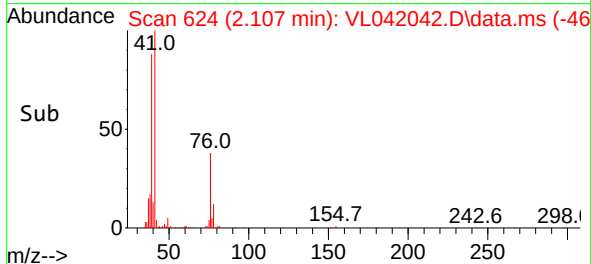
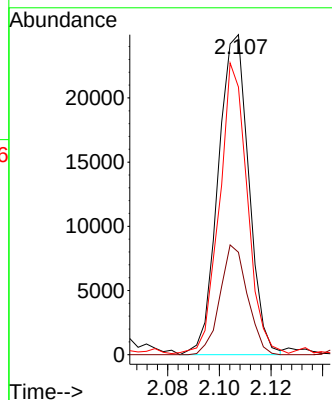
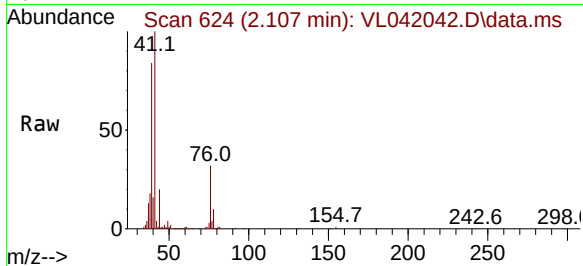
#21
 Allyl Chloride
 Concen: 1.069 ppbv
 RT: 2.107 min Scan# 61
 Delta R.T. 0.003 min
 Lab File: VL042042.D
 Acq: 25 Feb 2025 09:29

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tgt Ion: 41 Resp: 20564
 Ion Ratio Lower Upper
 41 100
 76 30.7 23.7 35.5
 39 82.6 63.0 94.6

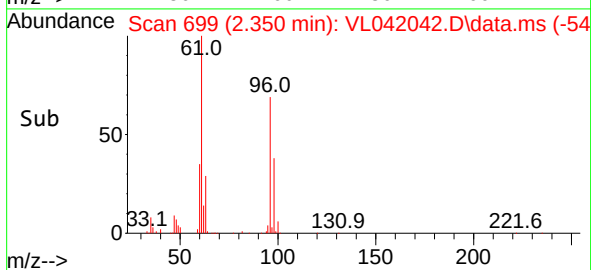
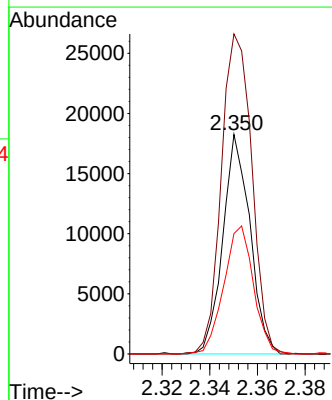
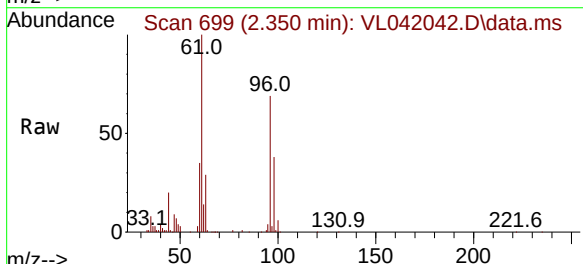
Manual Integrations
 APPROVED

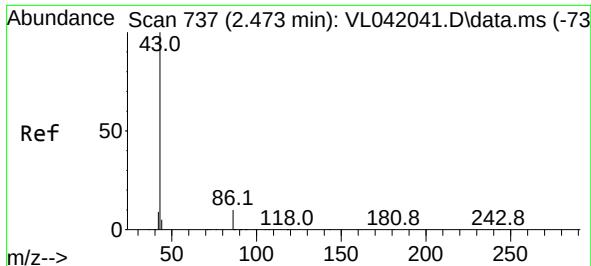
Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025



#22
 trans-1,2-Dichloroethene
 Concen: 1.283 ppbv
 RT: 2.350 min Scan# 699
 Delta R.T. 0.000 min
 Lab File: VL042042.D
 Acq: 25 Feb 2025 09:29

Tgt Ion: 96 Resp: 14475
 Ion Ratio Lower Upper
 96 100
 61 145.8 142.3 213.5
 98 54.9 50.2 75.2





#23
 Vinyl Acetate
 Concen: 1.556 ppbv
 RT: 2.473 min Scan# 71
 Delta R.T. 0.000 min
 Lab File: VL042042.D
 Acq: 25 Feb 2025 09:29

Instrument :

MSVOA_L

ClientSampleId :

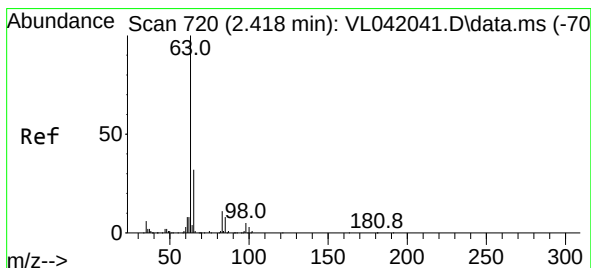
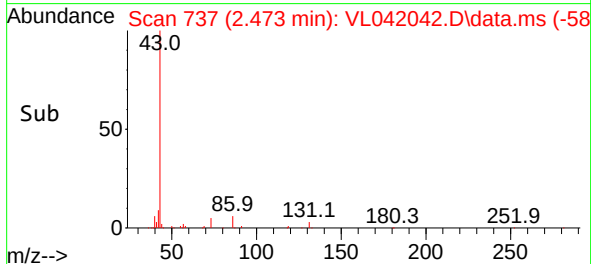
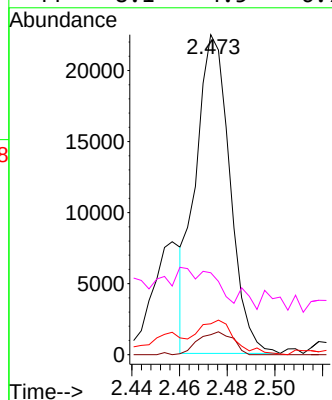
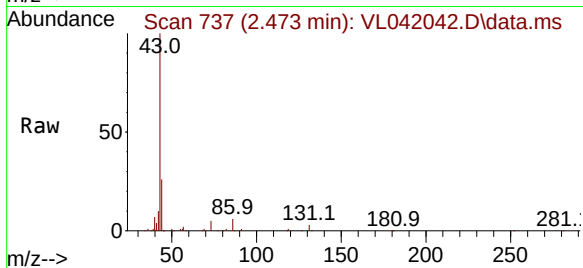
VSTDIC002

Tgt Ion: 43 Resp: 22394
 Ion Ratio Lower Upper
 43 100
 86 6.3 8.1 12.1
 42 9.4 7.5 11.3
 44 8.1 4.5 6.7#

Manual Integrations

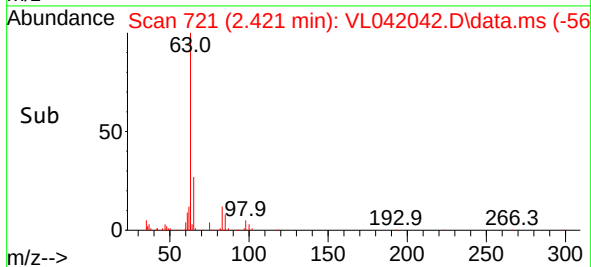
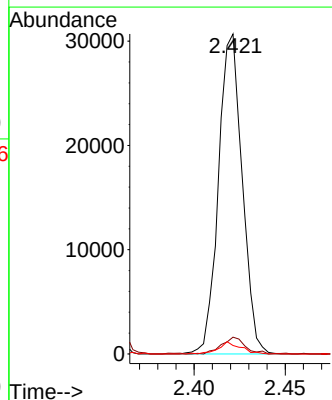
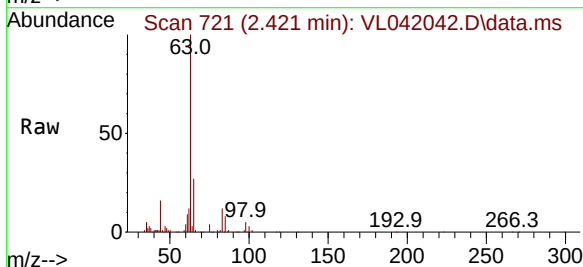
APPROVED

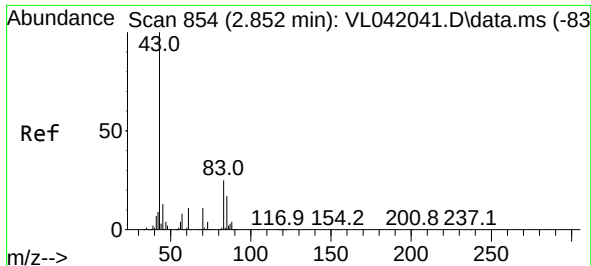
Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025



#24
 1,1-Dichloroethane
 Concen: 1.214 ppbv
 RT: 2.421 min Scan# 721
 Delta R.T. 0.003 min
 Lab File: VL042042.D
 Acq: 25 Feb 2025 09:29

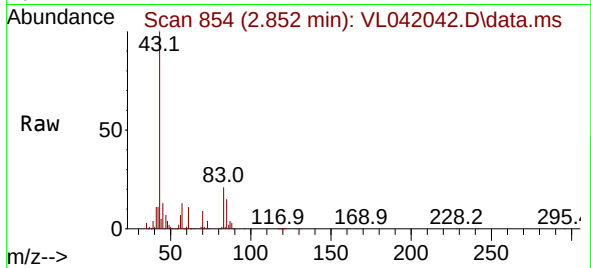
Tgt Ion: 63 Resp: 27804
 Ion Ratio Lower Upper
 63 100
 98 5.1 2.4 7.2
 100 2.7 1.6 4.8





#25
Ethyl Acetate
Concen: 1.667 ppbv
RT: 2.852 min Scan# 815
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

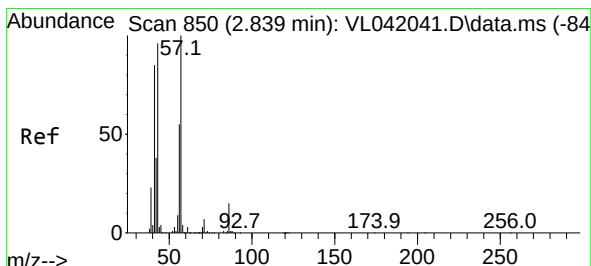
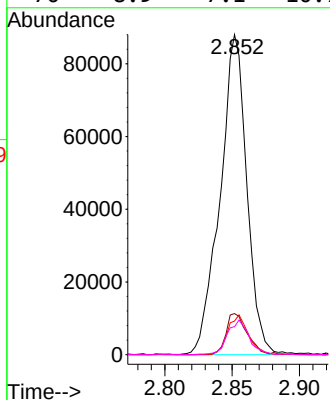
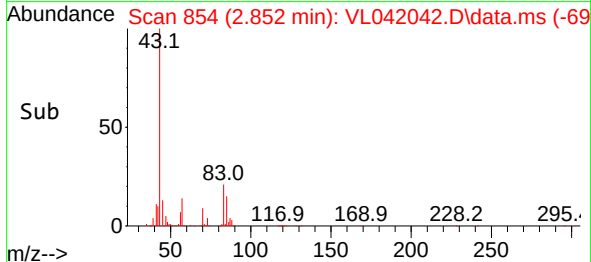
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



Tgt Ion:	43	Resp:	12159
Ion Ratio	100	Lower	Upper
43	100		
45	10.4	8.1	12.1
61	9.6	7.5	11.3
70	8.9	7.1	10.7

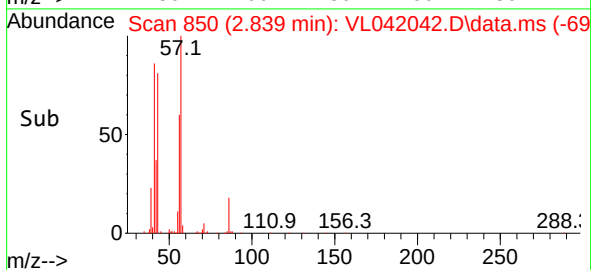
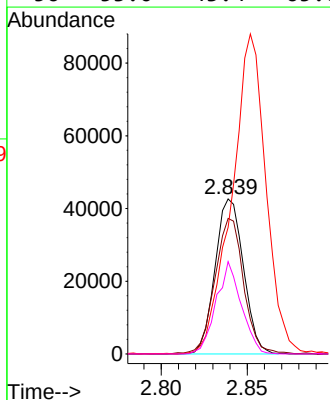
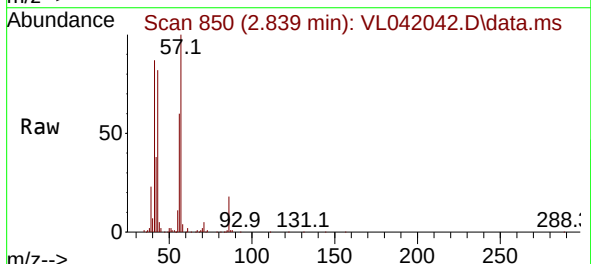
Manual Integrations
APPROVED

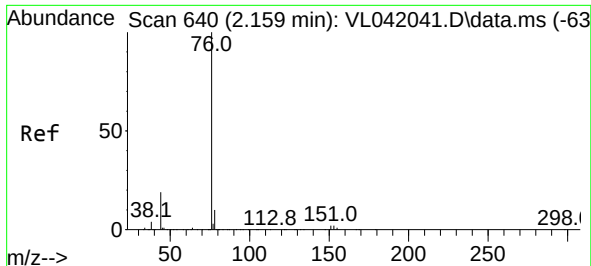
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#26
Hexane
Concen: 1.671 ppbv
RT: 2.839 min Scan# 850
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

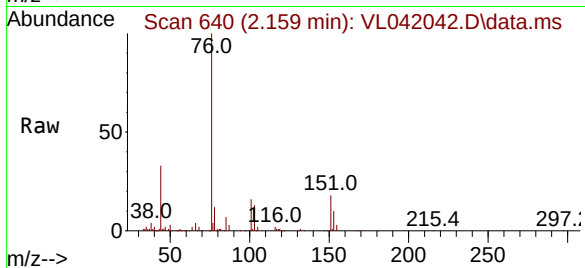
Tgt Ion:	57	Resp:	48912
Ion Ratio	100	Lower	Upper
57	100		
41	89.0	73.2	109.8
43	249.1	200.8	301.2
56	53.0	43.4	65.0





#27
Carbon Disulfide
Concen: 1.207 ppbv
RT: 2.159 min Scan# 640
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

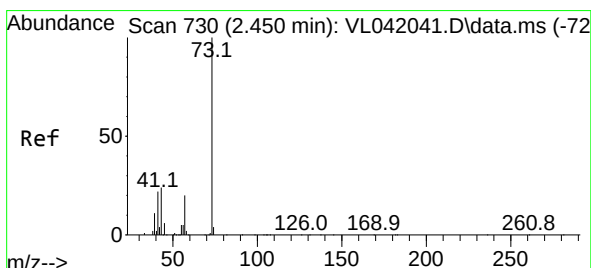
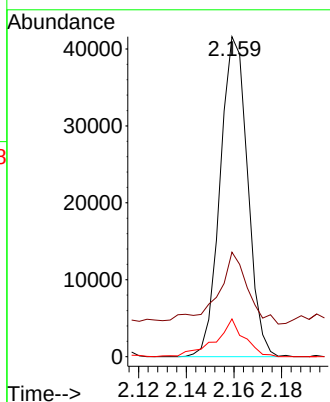
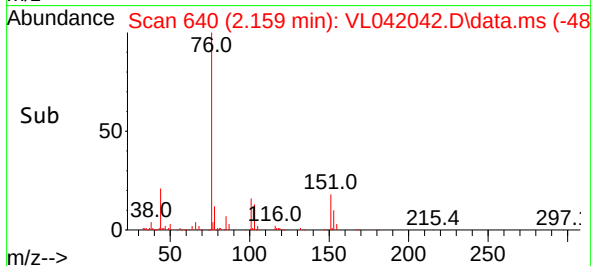
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



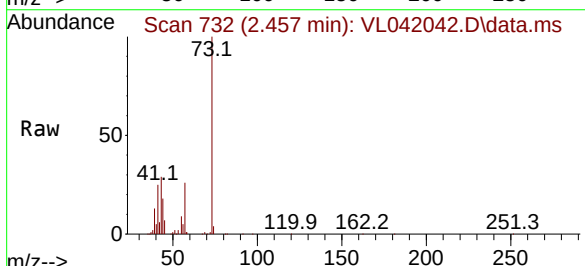
Tgt Ion: 76 Resp: 3322
Ion Ratio Lower Upper
76 100
44 53.5 18.1 27.1
78 12.5 9.5 14.3

Manual Integrations
APPROVED

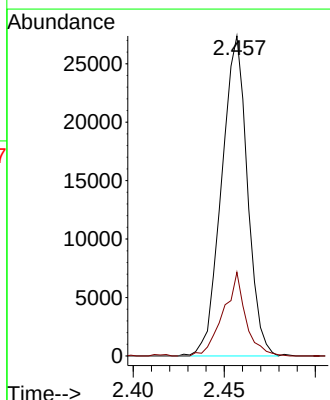
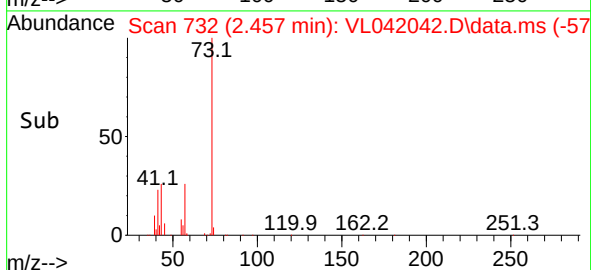
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

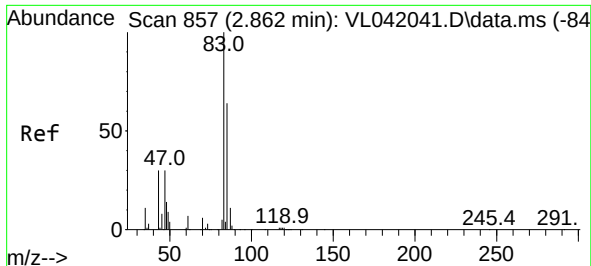


#28
Methyl tert-Butyl Ether
Concen: 1.507 ppbv
RT: 2.457 min Scan# 732
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29



Tgt Ion: 73 Resp: 26968
Ion Ratio Lower Upper
73 100
57 22.9 18.3 27.5





#29

Chloroform

Concen: 1.497 ppbv

RT: 2.865 min Scan# 857

Delta R.T. 0.003 min

Lab File: VL042042.D

Acq: 25 Feb 2025 09:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

Tgt Ion: 83 Resp: 6346

Ion Ratio Lower Upper

83 100

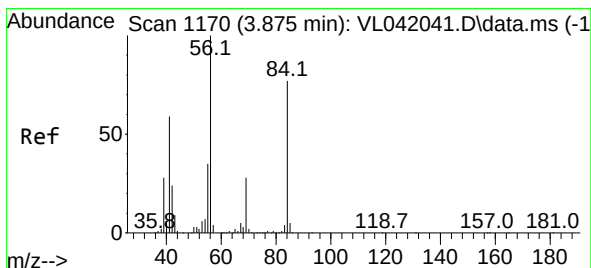
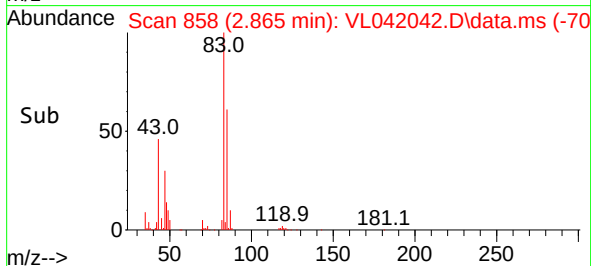
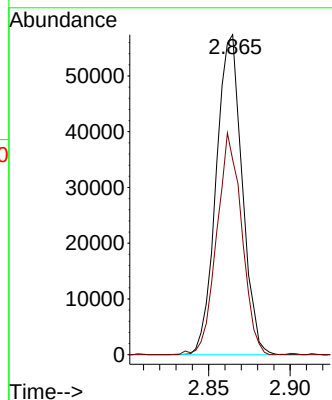
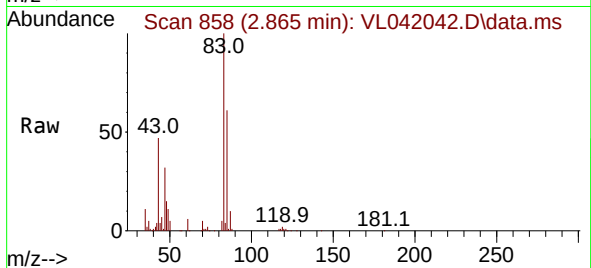
85 60.8 53.8 80.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025

Supervised By :Mahesh Dadoda 02/26/2025



#30

Cyclohexane

Concen: 1.702 ppbv

RT: 3.878 min Scan# 1171

Delta R.T. 0.003 min

Lab File: VL042042.D

Acq: 25 Feb 2025 09:29

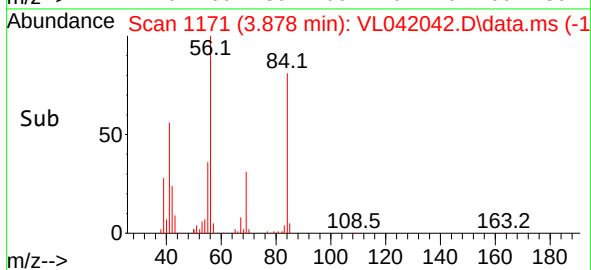
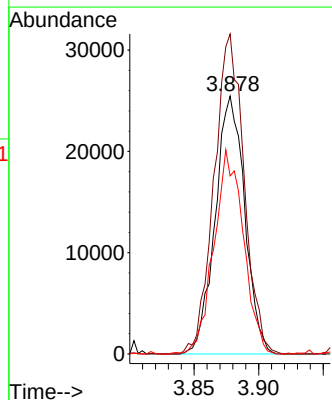
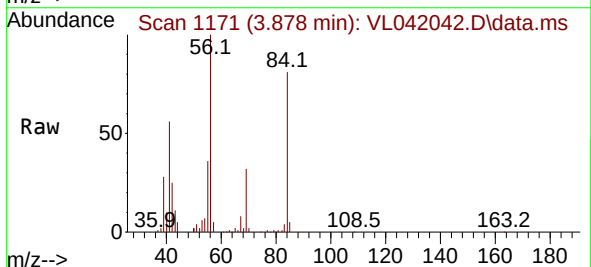
Tgt Ion: 84 Resp: 40420

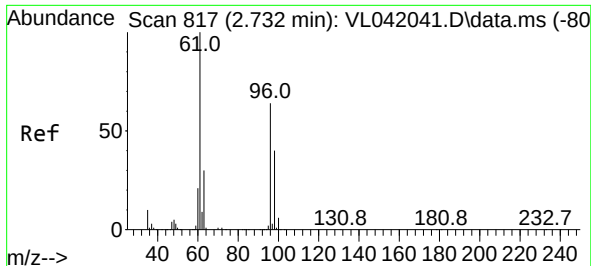
Ion Ratio Lower Upper

84 100

56 125.8 99.5 149.3

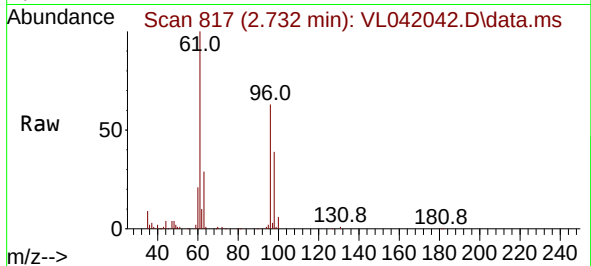
41 79.4 62.2 93.2





#31
 cis-1,2-Dichloroethene
 Concen: 1.614 ppbv
 RT: 2.732 min Scan# 817
 Delta R.T. 0.000 min
 Lab File: VL042042.D
 Acq: 25 Feb 2025 09:29

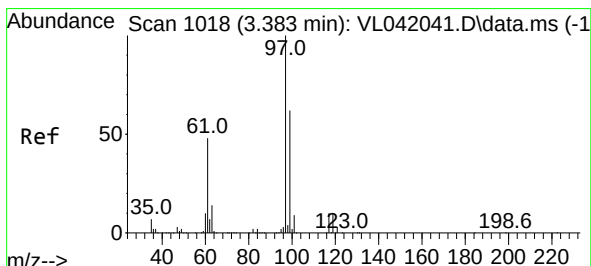
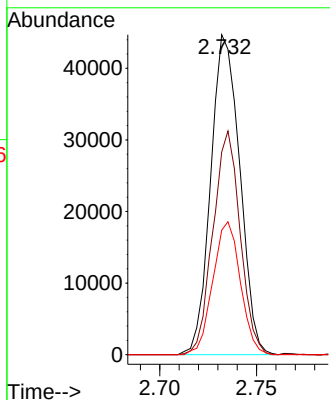
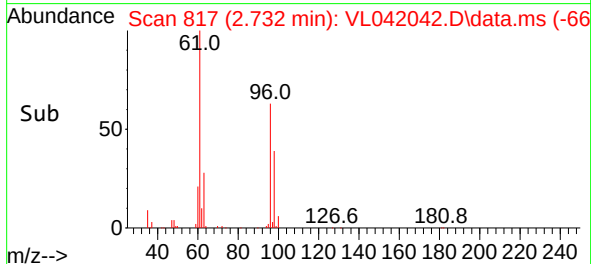
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002



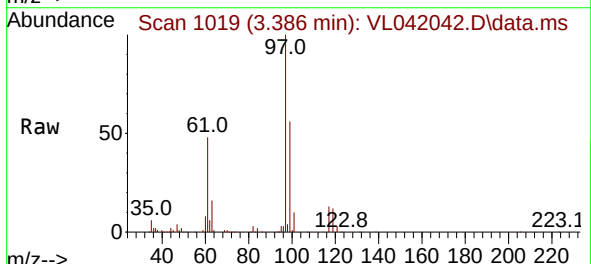
Tgt Ion: 61 Resp: 46690
 Ion Ratio Lower Upper
 61 100
 96 63.4 51.6 77.4
 98 38.9 34.8 52.2

Manual Integrations
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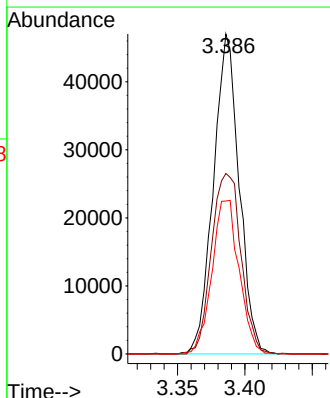
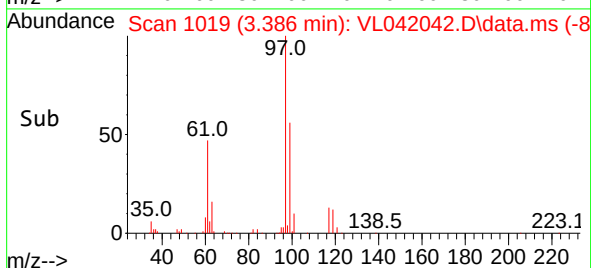
Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025

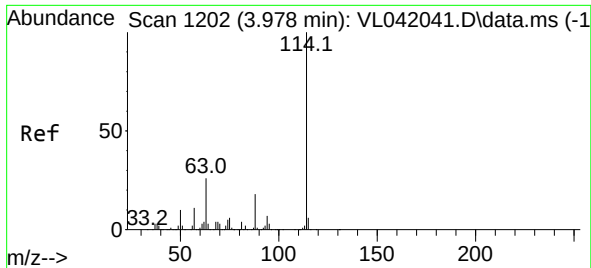


#32
 1,1,1-Trichloroethane
 Concen: 1.331 ppbv
 RT: 3.386 min Scan# 1019
 Delta R.T. 0.003 min
 Lab File: VL042042.D
 Acq: 25 Feb 2025 09:29



Tgt Ion: 97 Resp: 62586
 Ion Ratio Lower Upper
 97 100
 99 64.3 51.0 76.4
 61 50.9 37.9 56.9





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.981 min Scan# 114

Delta R.T. 0.003 min

Lab File: VL042042.D

Acq: 25 Feb 2025 09:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

Tgt Ion:114 Resp: 42705

Ion Ratio Lower Upper

114 100

63 25.1 20.2 30.2

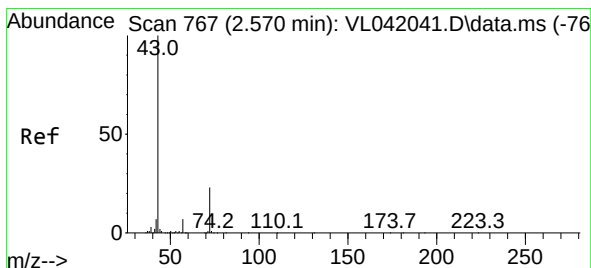
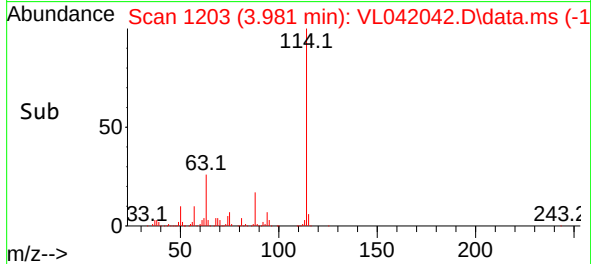
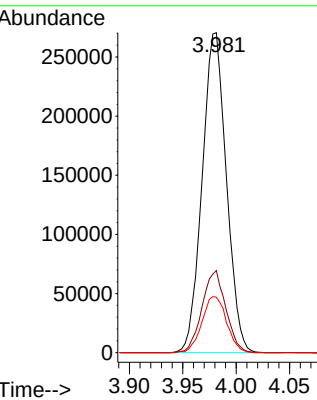
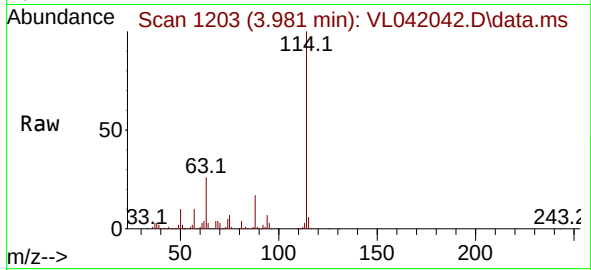
88 17.8 14.4 21.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 02/26/2025

Supervised By :Mahesh Dadoda 02/26/2025



#34

2-Butanone

Concen: 1.888 ppbv

RT: 2.573 min Scan# 768

Delta R.T. 0.003 min

Lab File: VL042042.D

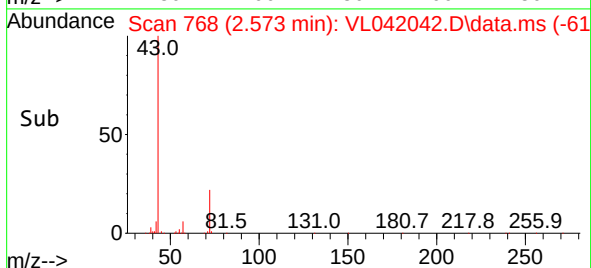
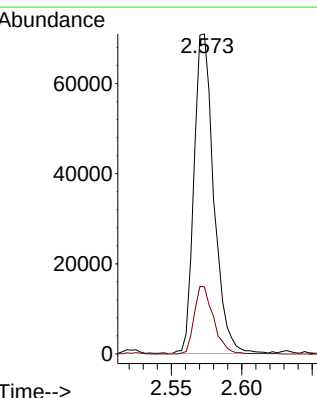
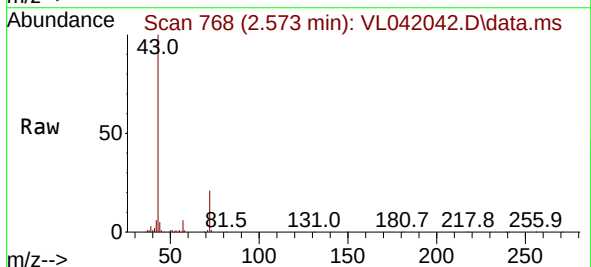
Acq: 25 Feb 2025 09:29

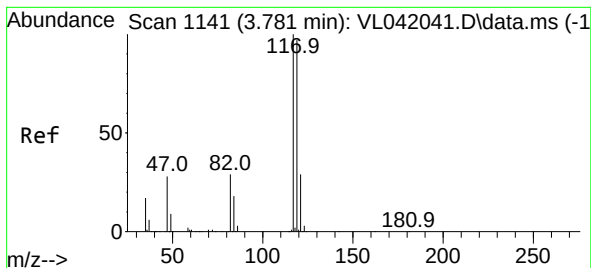
Tgt Ion: 43 Resp: 69370

Ion Ratio Lower Upper

43 100

72 20.7 18.3 27.5





#35

Carbon Tetrachloride

Concen: 1.493 ppbv

RT: 3.784 min Scan# 1141

Delta R.T. 0.003 min

Lab File: VL042042.D

Acq: 25 Feb 2025 09:29

Instrument :

MSVOA_L

ClientSampleId :

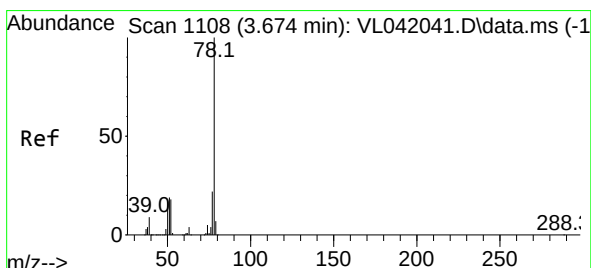
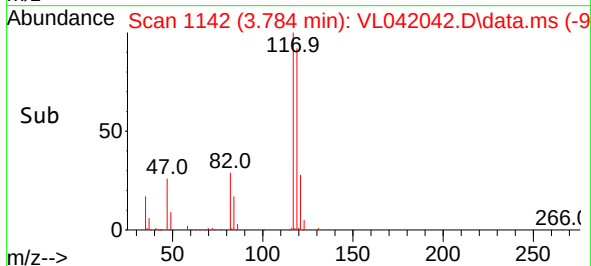
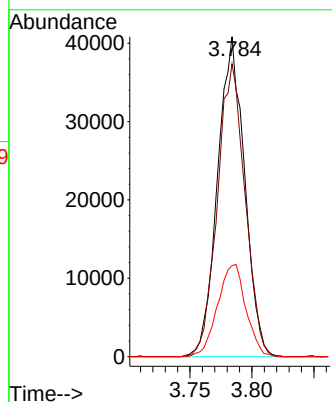
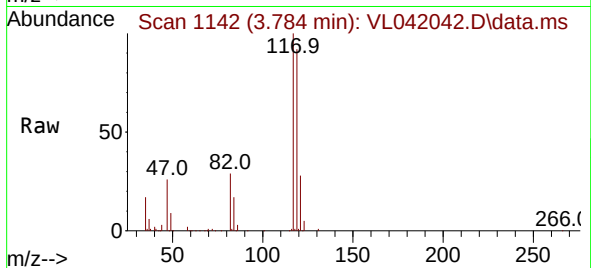
VSTDIC002

Tgt Ion:	117	Resp:	6189
Ion	Ratio	Lower	Upper
117	100		
119	91.5	75.8	113.6
121	28.5	24.6	36.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#36

Benzene

Concen: 1.822 ppbv

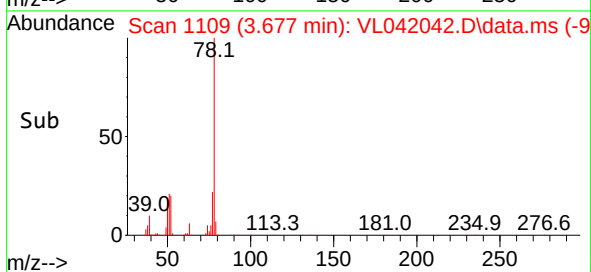
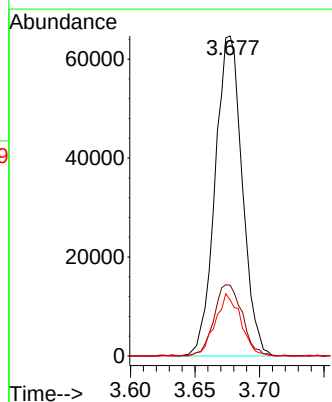
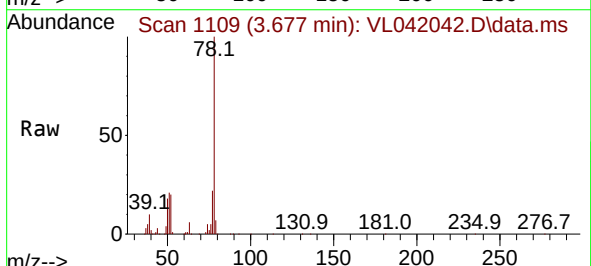
RT: 3.677 min Scan# 1109

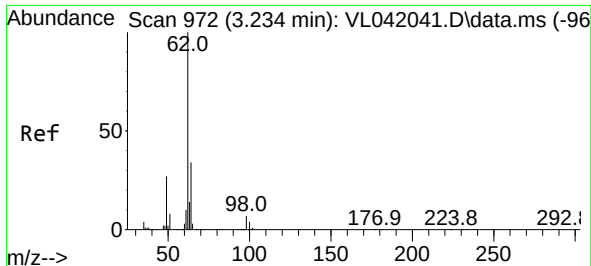
Delta R.T. 0.003 min

Lab File: VL042042.D

Acq: 25 Feb 2025 09:29

Tgt Ion:	78	Resp:	94277
Ion	Ratio	Lower	Upper
78	100		
77	22.1	18.0	27.0
50	17.4	15.2	22.8





#37

1,2-Dichloroethane

Concen: 1.734 ppbv

RT: 3.237 min Scan# 91

Delta R.T. 0.003 min

Lab File: VL042042.D

Acq: 25 Feb 2025 09:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

Tgt Ion: 62 Resp: 51050

Ion Ratio Lower Upper

62 100

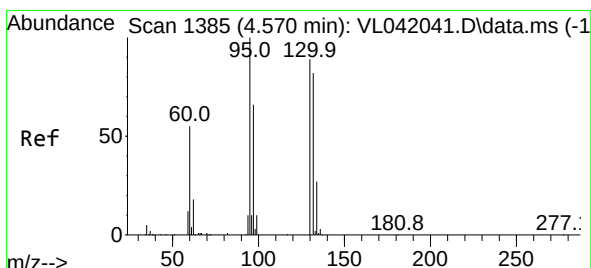
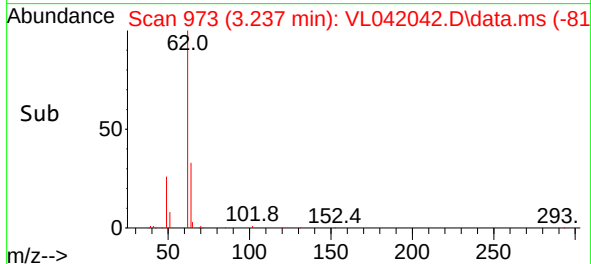
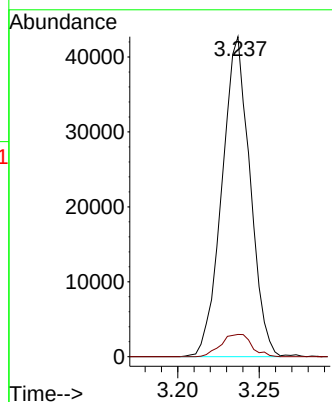
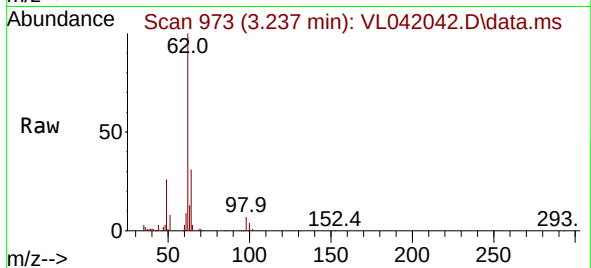
98 7.6 5.7 8.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025

Supervised By :Mahesh Dadoda 02/26/2025



#38

Trichloroethene

Concen: 1.817 ppbv

RT: 4.574 min Scan# 1386

Delta R.T. 0.007 min

Lab File: VL042042.D

Acq: 25 Feb 2025 09:29

Tgt Ion:130 Resp: 38184

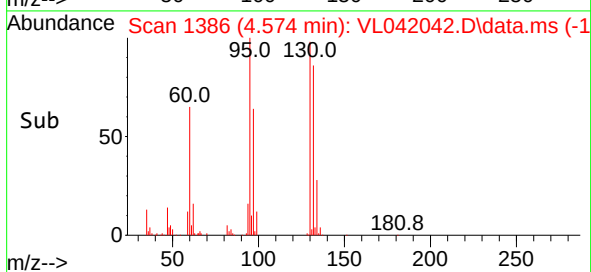
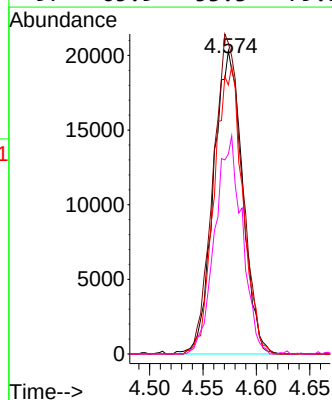
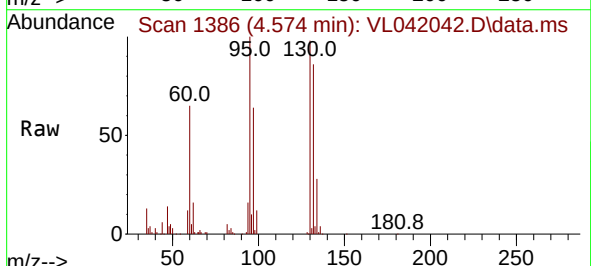
Ion Ratio Lower Upper

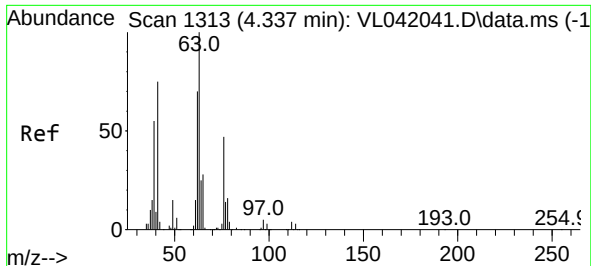
130 100

95 102.6 82.8 124.2

132 88.7 70.0 105.0

97 65.9 53.3 79.9





#39

1,2-Dichloropropane

Concen: 1.866 ppbv

RT: 4.341 min Scan# 1313

Delta R.T. 0.007 min

Lab File: VL042042.D

Acq: 25 Feb 2025 09:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

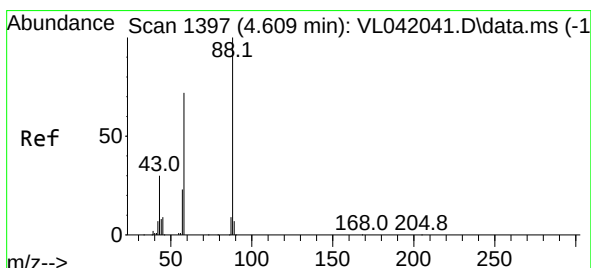
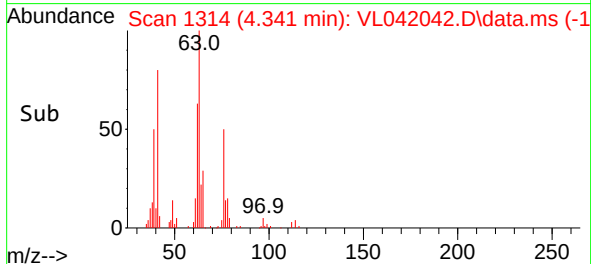
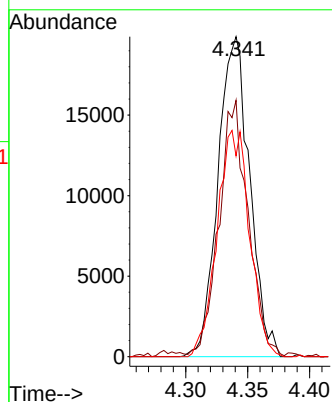
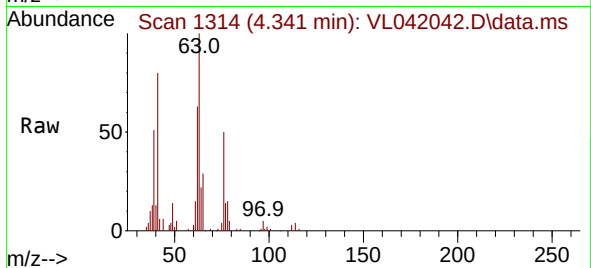
Tgt Ion: 63 Resp: 35390

Ion	Ratio	Lower	Upper
63	100		
41	79.2	60.1	90.1
62	62.8	54.0	81.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#40

1,4-Dioxane

Concen: 1.565 ppbv

RT: 4.622 min Scan# 1401

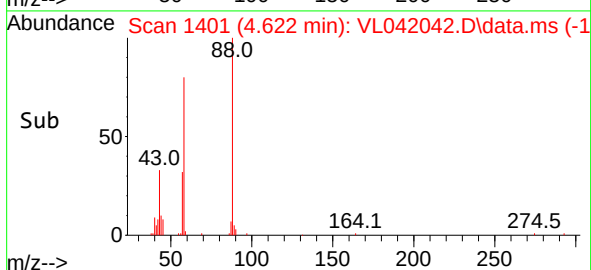
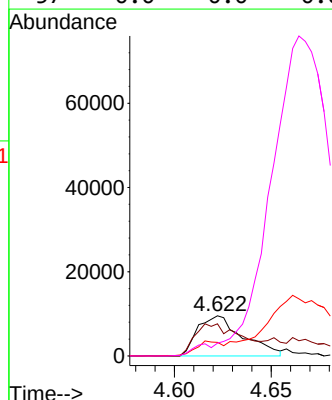
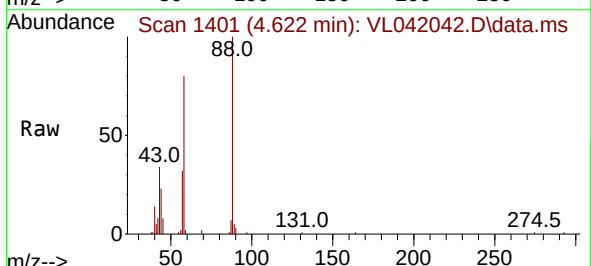
Delta R.T. 0.013 min

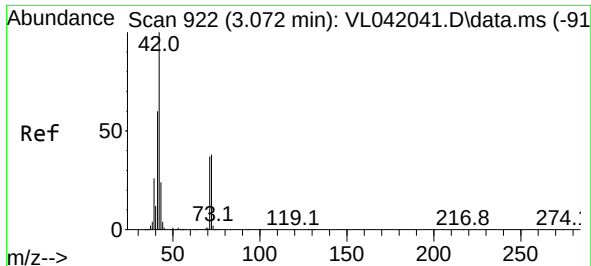
Lab File: VL042042.D

Acq: 25 Feb 2025 09:29

Tgt Ion: 88 Resp: 15442

Ion	Ratio	Lower	Upper
88	100		
58	138.2	58.1	87.1#
43	0.0	27.3	40.9#
57	0.0	0.0	0.0





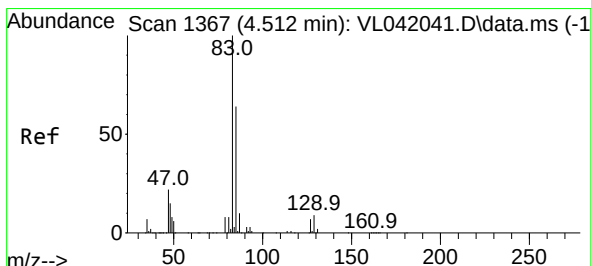
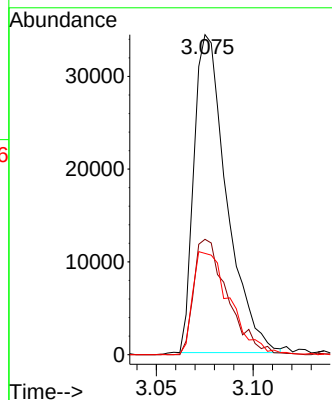
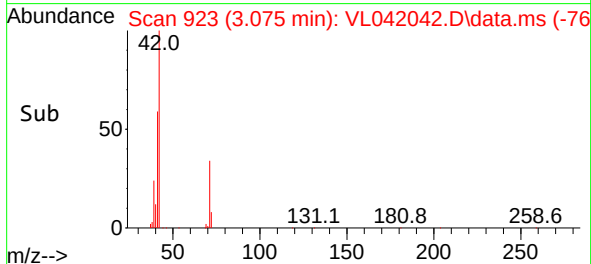
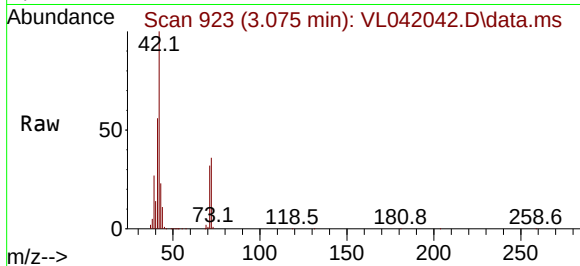
#41
Tetrahydrofuran
Concen: 1.922 ppbv
RT: 3.075 min Scan# 91
Delta R.T. 0.007 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 42 Resp: 4036
Ion Ratio Lower Upper
42 100
72 37.9 32.3 48.5
71 36.7 30.9 46.3

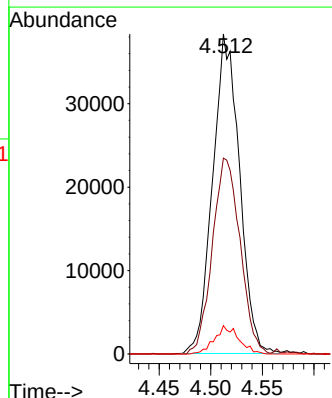
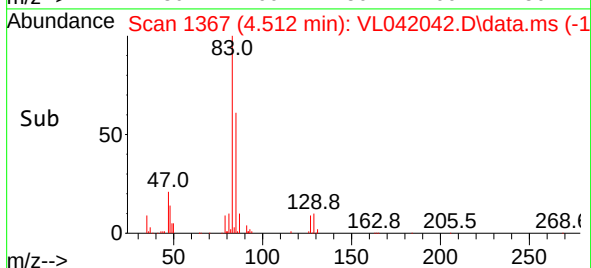
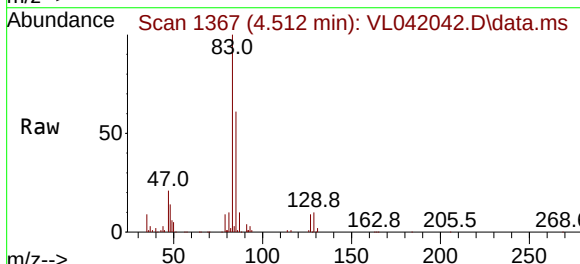
Manual Integrations
APPROVED

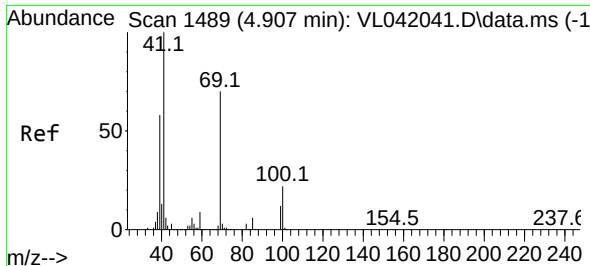
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#42
Bromodichloromethane
Concen: 1.733 ppbv
RT: 4.512 min Scan# 1367
Delta R.T. -0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 83 Resp: 69154
Ion Ratio Lower Upper
83 100
85 61.3 53.3 79.9
127 8.9 6.0 9.0





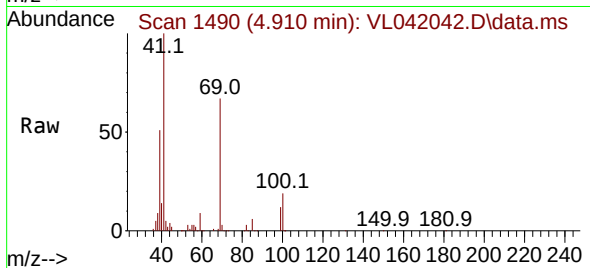
#43
Methyl Methacrylate
Concen: 1.543 ppbv
RT: 4.910 min Scan# 1489
Delta R.T. 0.007 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

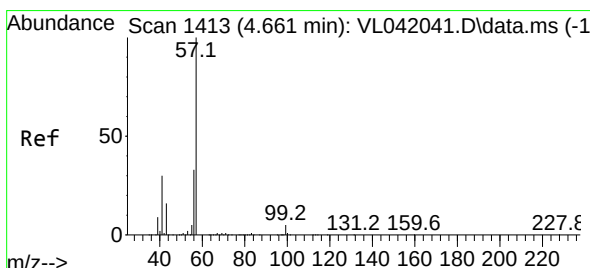
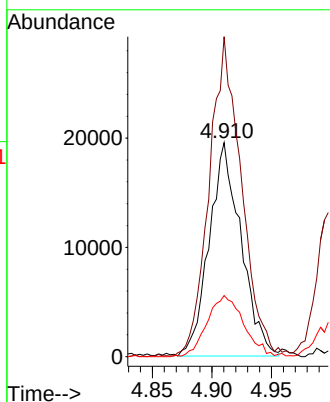
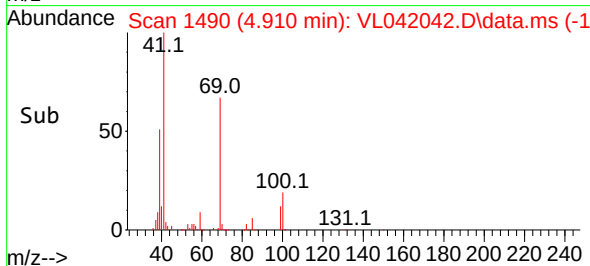


Tgt Ion: 69 Resp: 3639
Ion Ratio Lower Upper
69 100
41 151.7 114.9 172.3
100 33.0 28.8 43.2

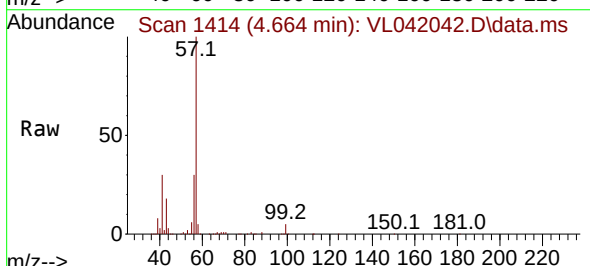
Manual Integrations

APPROVED

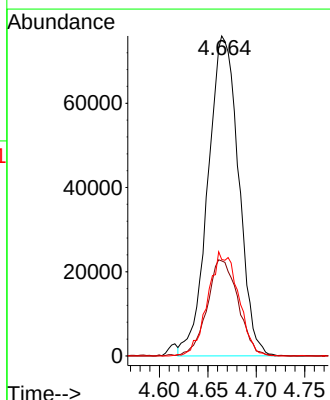
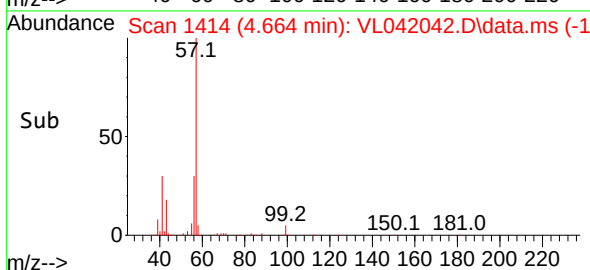
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

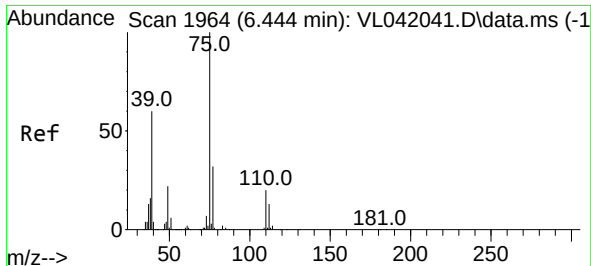


#44
2,2,4-Trimethylpentane
Concen: 1.901 ppbv
RT: 4.664 min Scan# 1414
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29



Tgt Ion: 57 Resp: 166945
Ion Ratio Lower Upper
57 100
41 30.6 25.9 38.9
56 32.5 24.9 37.3





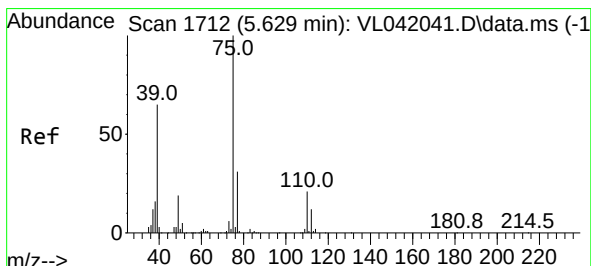
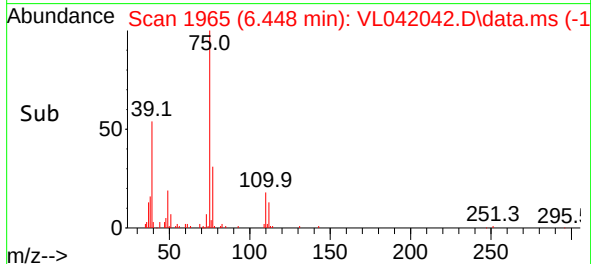
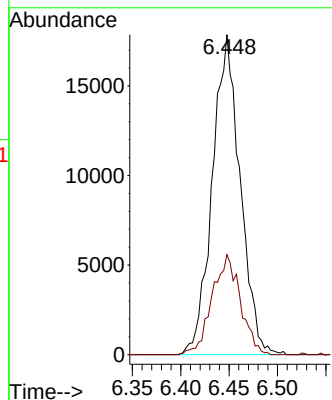
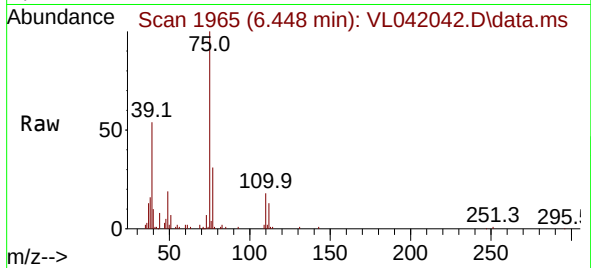
#45
t-1,3-Dichloropropene
Concen: 1.604 ppbv
RT: 6.448 min Scan# 1964
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 75 Resp: 3570
Ion Ratio Lower Upper
75 100
77 31.3 22.1 33.1

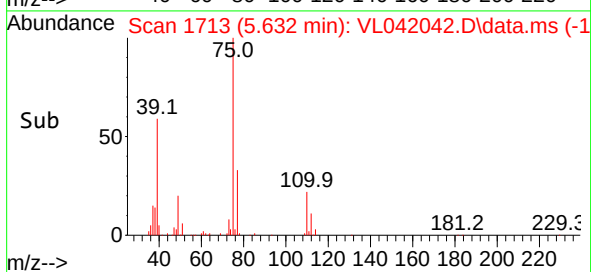
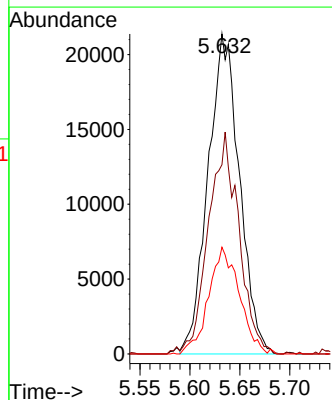
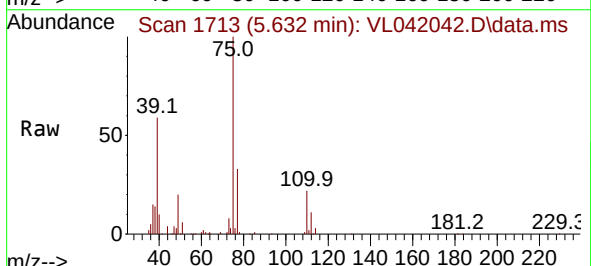
Manual Integrations
APPROVED

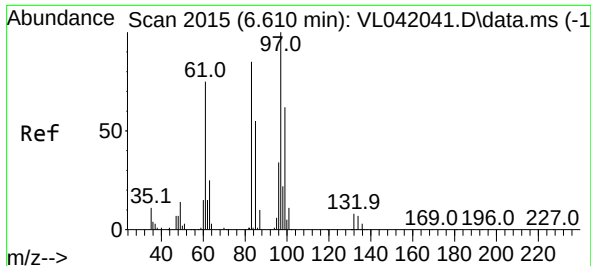
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#46
cis-1,3-Dichloropropene
Concen: 1.658 ppbv
RT: 5.632 min Scan# 1713
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 75 Resp: 46835
Ion Ratio Lower Upper
75 100
39 59.1 52.2 78.4
77 33.4 24.5 36.7





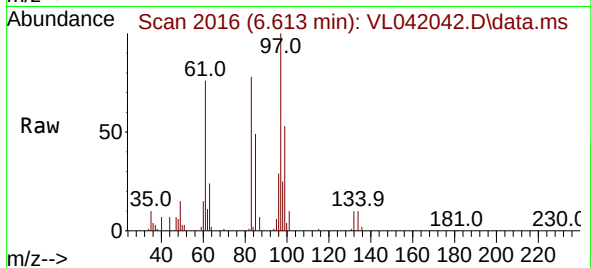
#47
1,1,2-Trichloroethane
Concen: 1.822 ppbv
RT: 6.613 min Scan# 2015
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

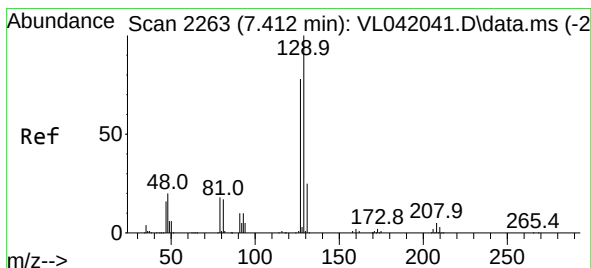
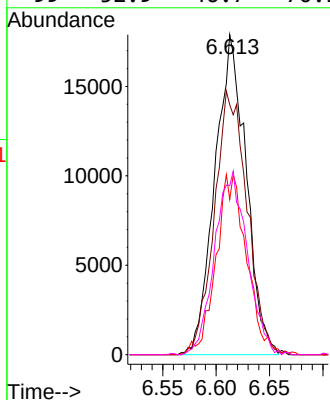
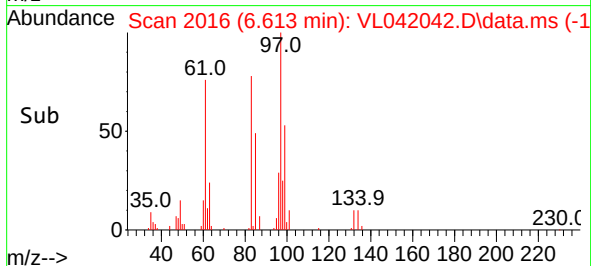


Tgt Ion: 97 Resp: 3636
Ion Ratio Lower Upper
97 100
83 78.1 68.6 102.8
85 48.5 42.2 63.4
99 52.9 46.7 70.1

Manual Integrations

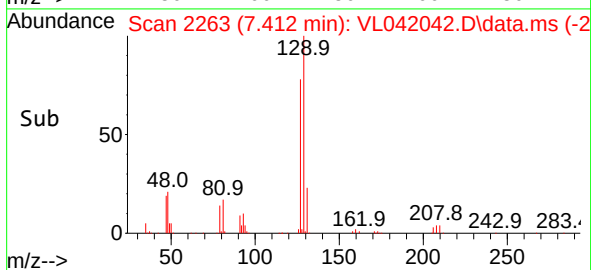
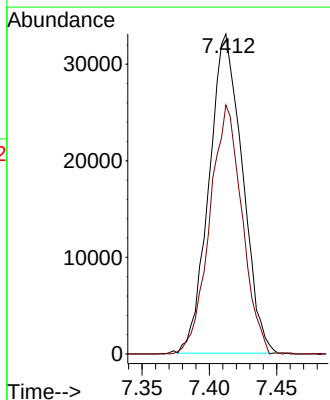
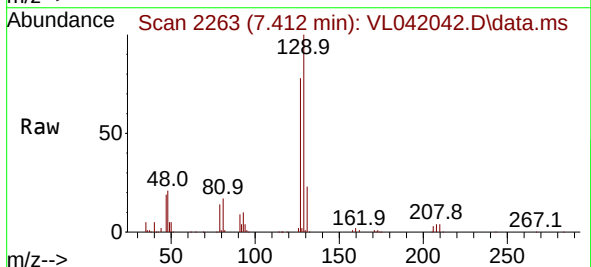
APPROVED

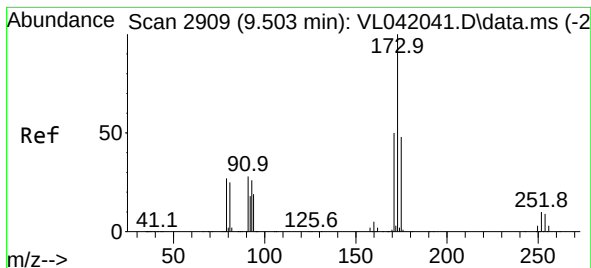
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#48
Dibromochloromethane
Concen: 1.703 ppbv
RT: 7.412 min Scan# 2263
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion:129 Resp: 56931
Ion Ratio Lower Upper
129 100
127 75.6 38.2 114.6





#49

Bromoform

Concen: 1.833 ppbv

RT: 9.503 min Scan# 2909

Delta R.T. 0.003 min

Lab File: VL042042.D

Acq: 25 Feb 2025 09:29

Instrument :

MSVOA_L

ClientSampleId :

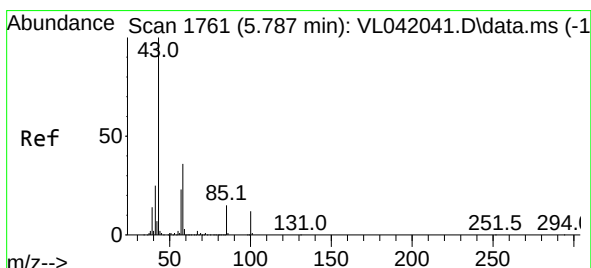
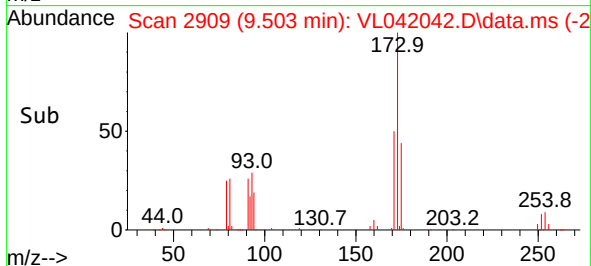
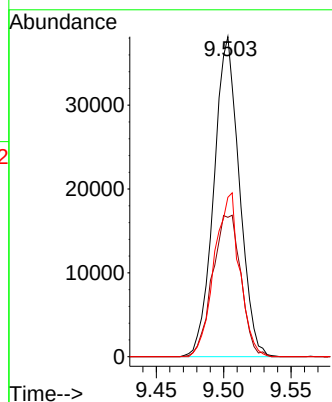
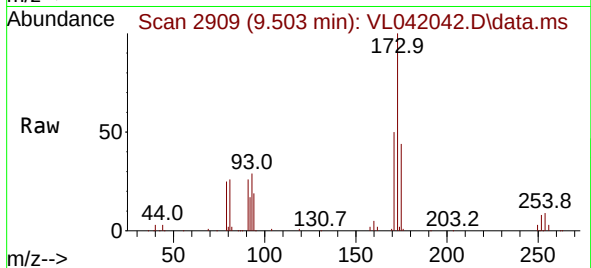
VSTDIC002

Tgt Ion:	173	Resp:	50259
Ion Ratio	Lower	Upper	
173	100		
175	49.3	39.3	58.9
171	51.1	41.4	62.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#50

4-Methyl-2-Pentanone

Concen: 1.474 ppbv

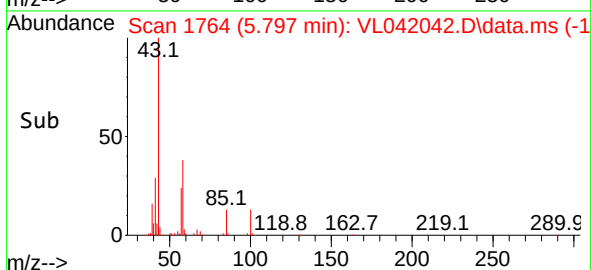
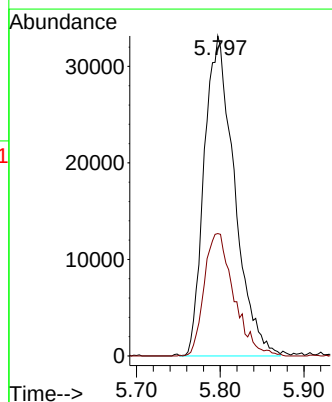
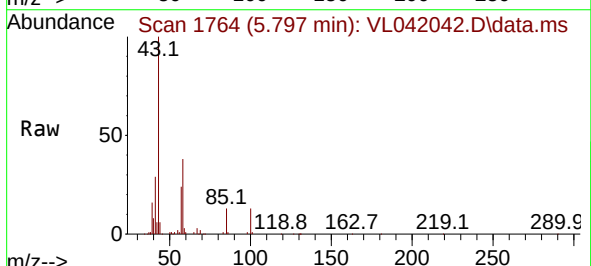
RT: 5.797 min Scan# 1764

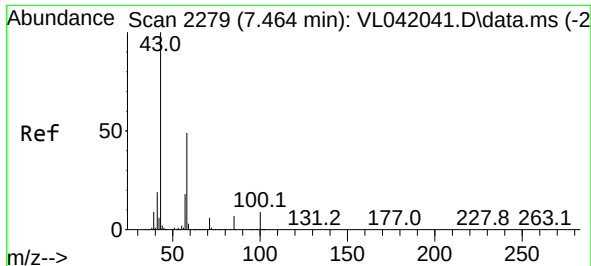
Delta R.T. 0.013 min

Lab File: VL042042.D

Acq: 25 Feb 2025 09:29

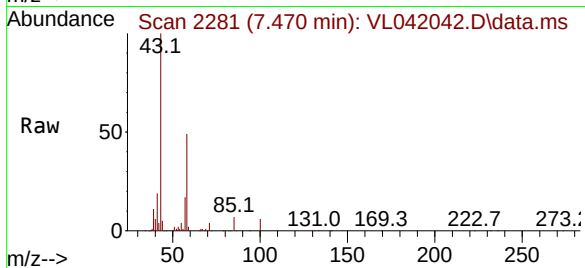
Tgt Ion:	43	Resp:	83246
Ion Ratio	Lower	Upper	
43	100		
58	37.6	29.4	44.0





#51
2-Hexanone
Concen: 1.124 ppbv
RT: 7.470 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

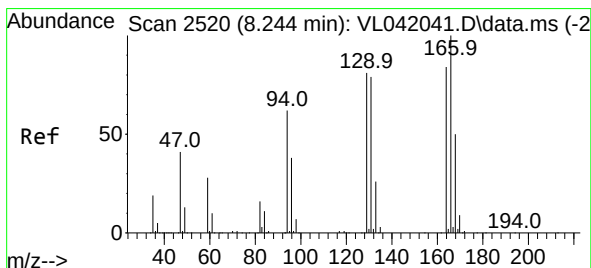
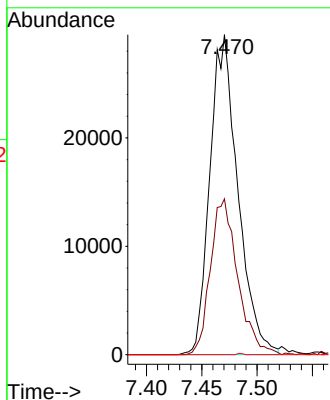
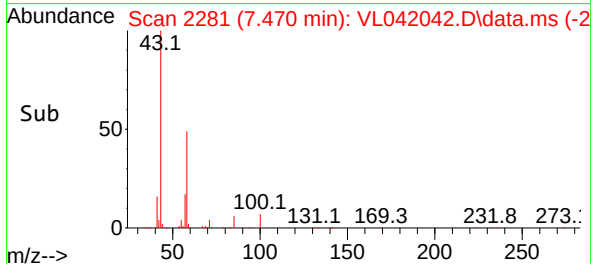
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



Tgt Ion: 43 Resp: 51920
Ion Ratio Lower Upper
43 100
58 47.5 41.4 62.0
98 0.0 0.0 0.0

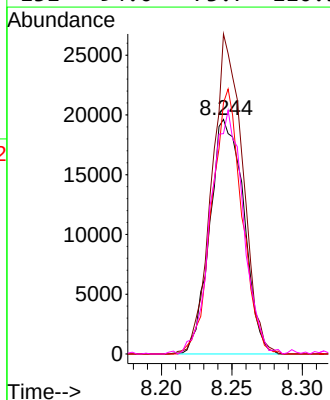
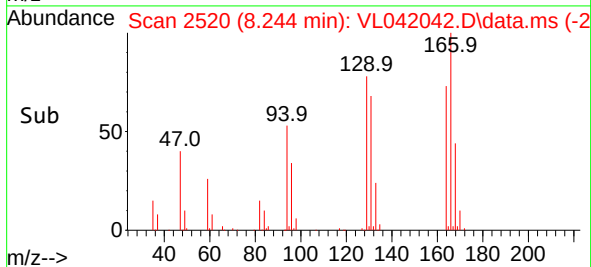
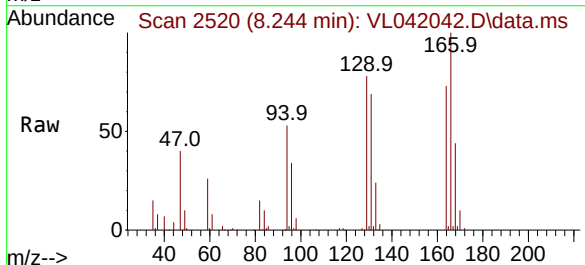
Manual Integrations
APPROVED

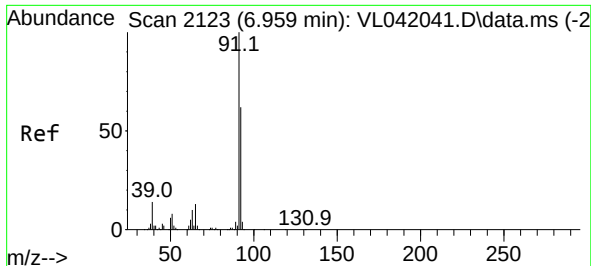
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#52
Tetrachloroethene
Concen: 1.822 ppbv
RT: 8.244 min Scan# 2520
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion:164 Resp: 32874
Ion Ratio Lower Upper
164 100
166 136.1 102.2 153.2
129 107.1 82.2 123.4
131 94.0 73.7 110.5





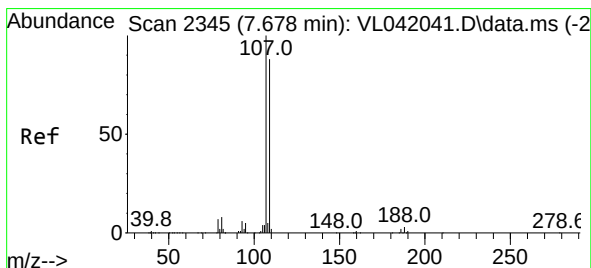
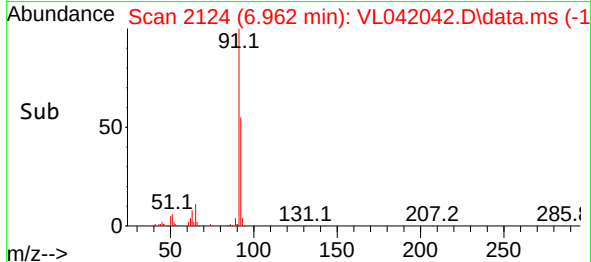
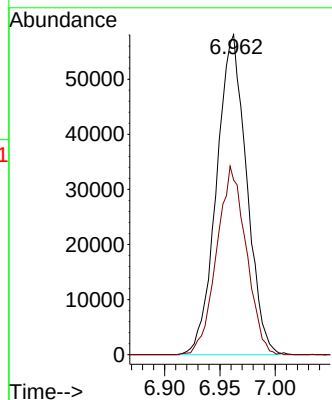
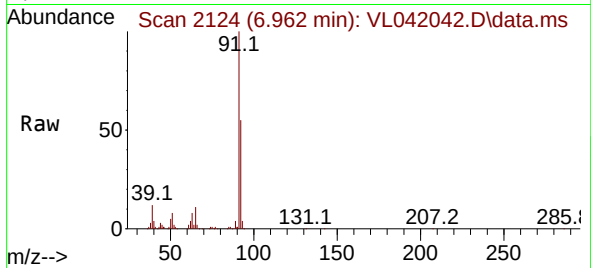
#53
Toluene
Concen: 1.779 ppbv
RT: 6.962 min Scan# 2123
Delta R.T. 0.007 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion: 91 Resp: 109640
Ion Ratio Lower Upper
91 100
92 57.9 47.5 71.3

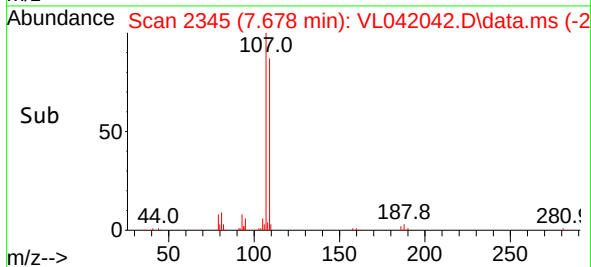
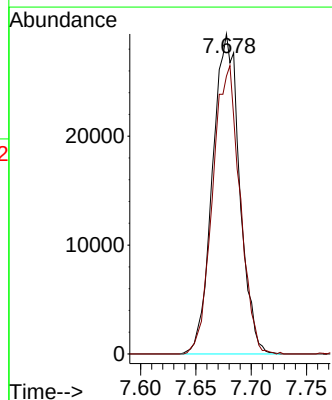
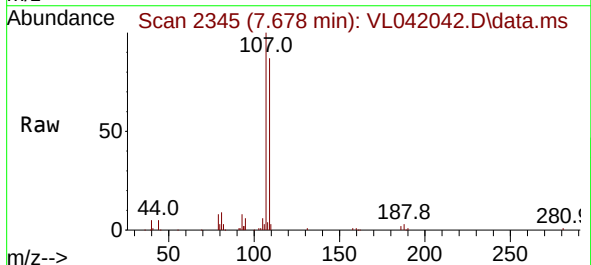
Manual Integrations
APPROVED

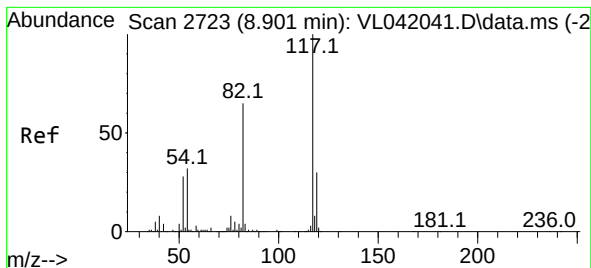
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#54
1,2-Dibromoethane
Concen: 1.820 ppbv
RT: 7.678 min Scan# 2345
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion:107 Resp: 50010
Ion Ratio Lower Upper
107 100
109 86.8 71.5 107.3





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.901 min Scan# 21

Delta R.T. 0.003 min

Lab File: VL042042.D

Acq: 25 Feb 2025 09:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

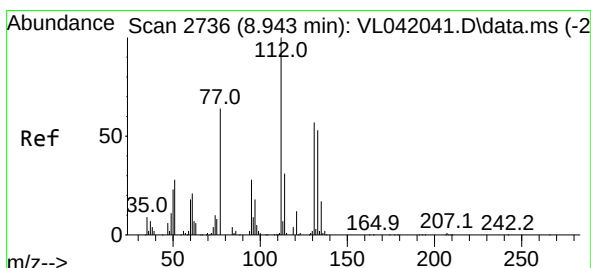
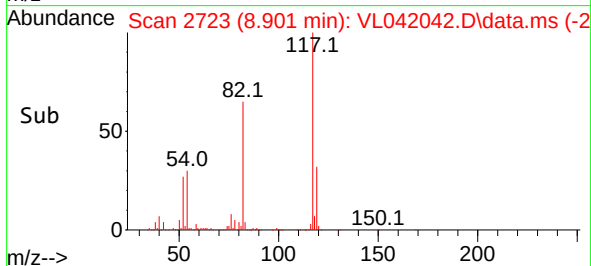
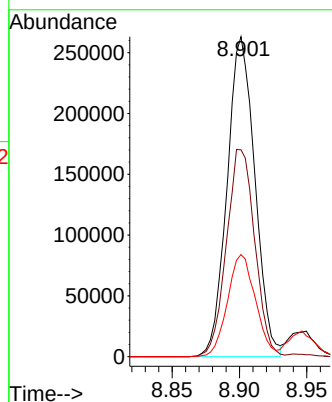
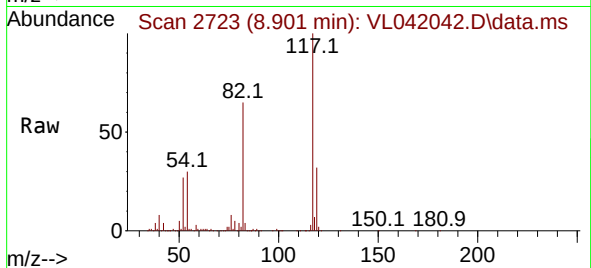
Tgt Ion:117 Resp: 377910

Ion	Ratio	Lower	Upper
117	100		
82	66.7	55.7	83.5
119	32.4	25.2	37.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#56

1,1,1,2-Tetrachloroethane

Concen: 1.662 ppbv

RT: 8.946 min Scan# 2737

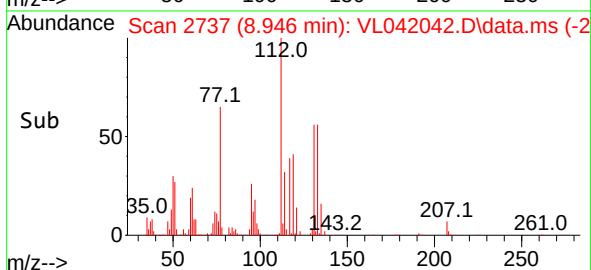
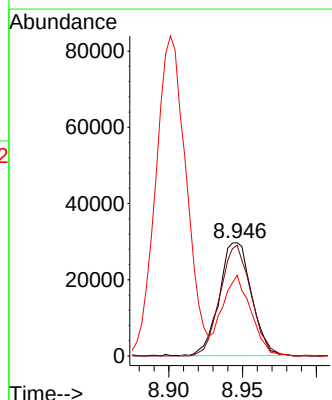
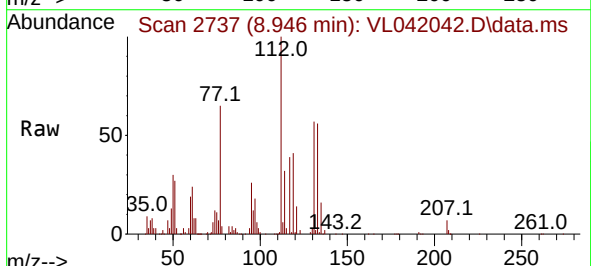
Delta R.T. 0.003 min

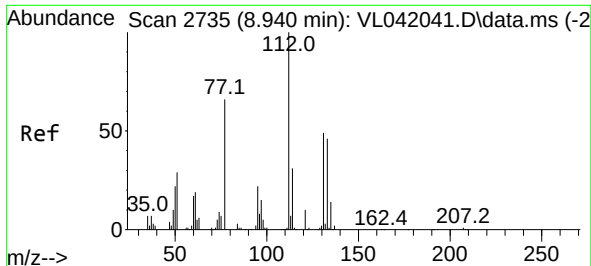
Lab File: VL042042.D

Acq: 25 Feb 2025 09:29

Tgt Ion:131 Resp: 44947

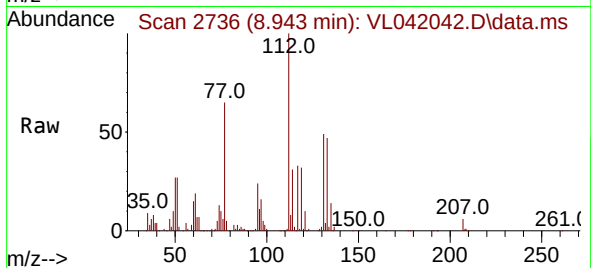
Ion	Ratio	Lower	Upper
131	100		
133	95.0	77.8	116.8
119	61.8	49.1	73.7





#57
Chlorobenzene
Concen: 1.906 ppbv
RT: 8.943 min Scan# 2735
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

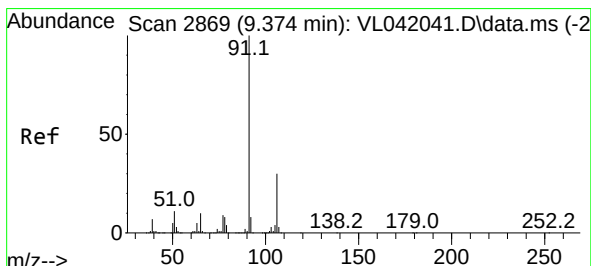
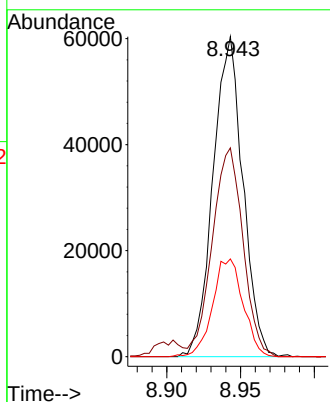
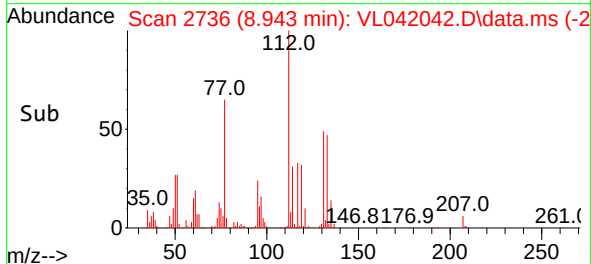
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



Tgt Ion:112 Resp: 84749
Ion Ratio Lower Upper
112 100
77 65.2 56.2 84.2
114 30.6 28.2 34.4

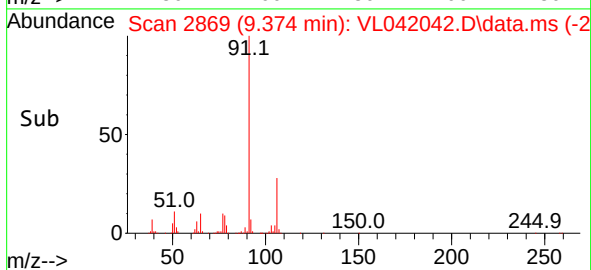
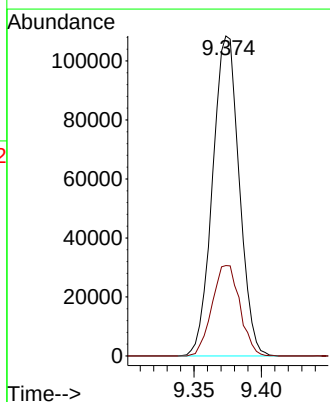
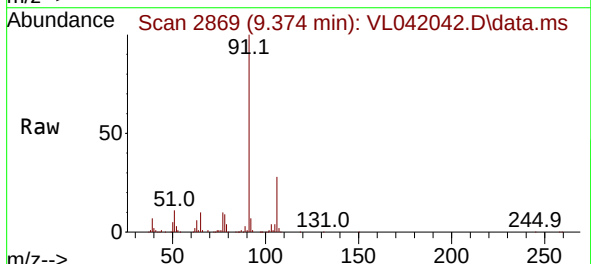
Manual Integrations
APPROVED

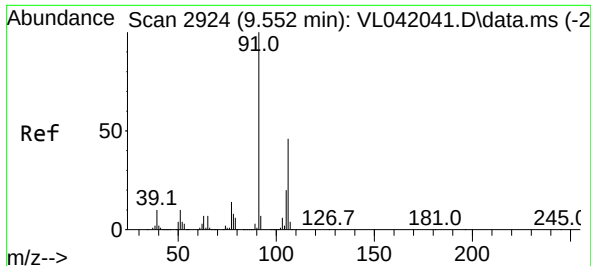
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#58
Ethyl Benzene
Concen: 1.804 ppbv
RT: 9.374 min Scan# 2869
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 91 Resp: 149185
Ion Ratio Lower Upper
91 100
106 28.3 23.1 34.7





#59

m/p-Xylene

Concen: 3.666 ppbv m

RT: 9.568 min Scan# 2924

Delta R.T. 0.020 min

Lab File: VL042042.D

Acq: 25 Feb 2025 09:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion: 91 Resp: 238800

Ion Ratio Lower Upper

91 100

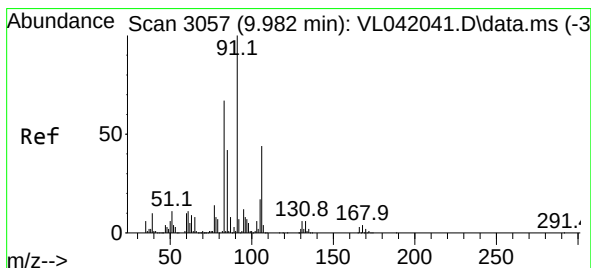
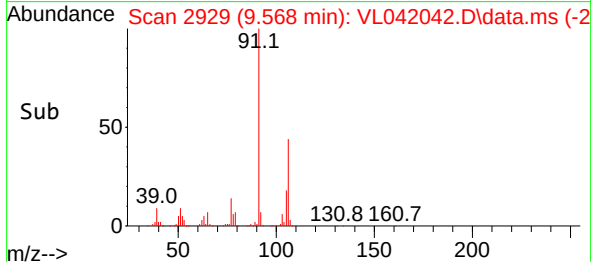
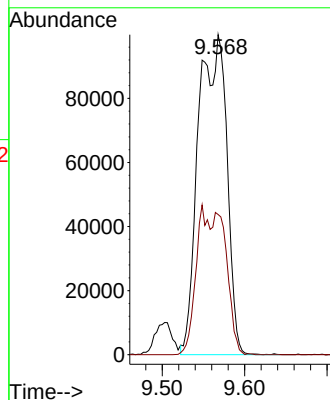
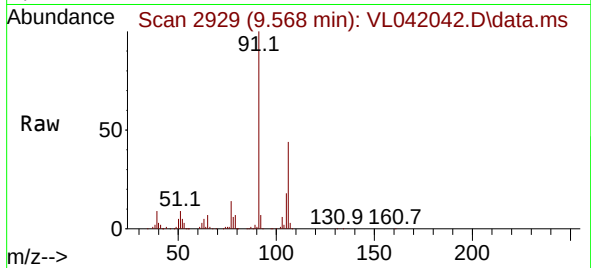
106 47.0 35.8 53.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025

Supervised By :Mahesh Dadoda 02/26/2025



#60

o-Xylene

Concen: 1.809 ppbv

RT: 9.982 min Scan# 3057

Delta R.T. 0.003 min

Lab File: VL042042.D

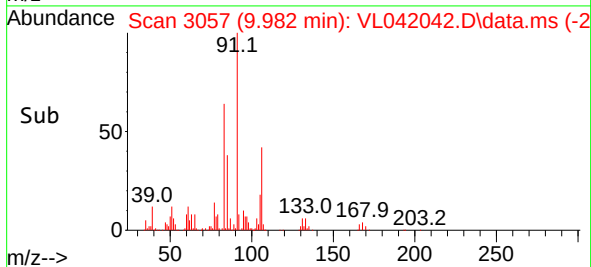
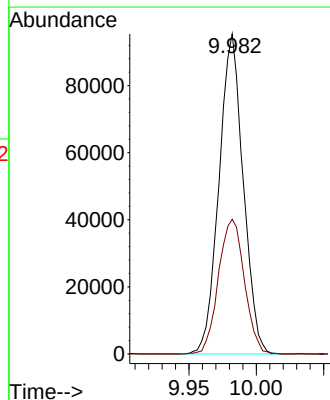
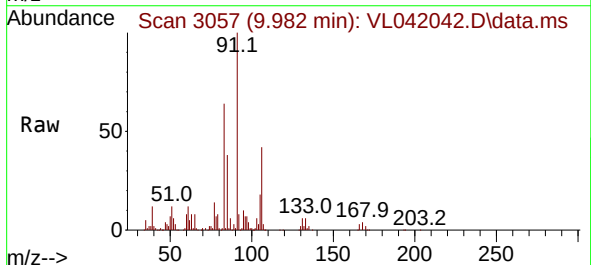
Acq: 25 Feb 2025 09:29

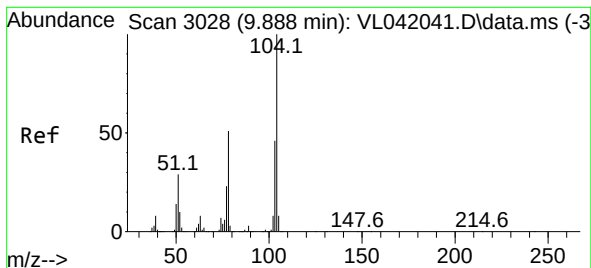
Tgt Ion: 91 Resp: 119170

Ion Ratio Lower Upper

91 100

106 45.0 21.4 64.3





#61

Styrene

Concen: 1.776 ppbv

RT: 9.888 min Scan# 3028

Delta R.T. 0.003 min

Lab File: VL042042.D

Acq: 25 Feb 2025 09:29

Instrument :

MSVOA_L

ClientSampleId :

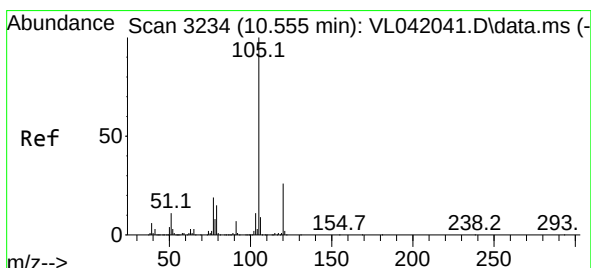
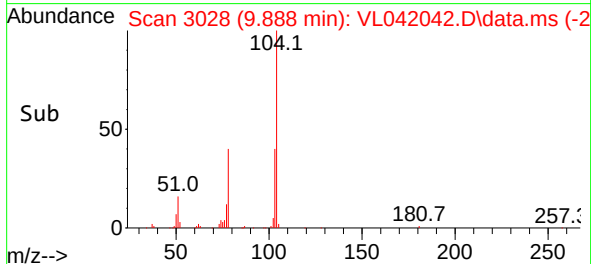
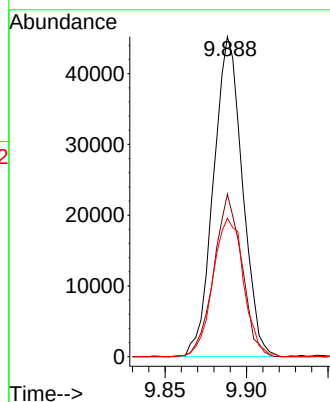
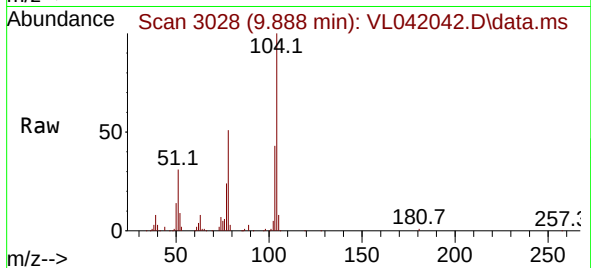
VSTDIC002

Tgt Ion:104 Resp: 55798
 Ion Ratio Lower Upper
 104 100
 78 49.1 42.2 63.4
 103 46.2 38.1 57.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025



#62

Isopropylbenzene

Concen: 1.833 ppbv

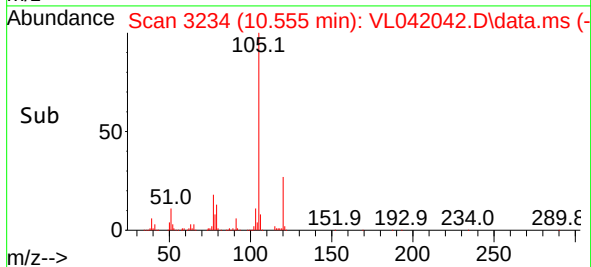
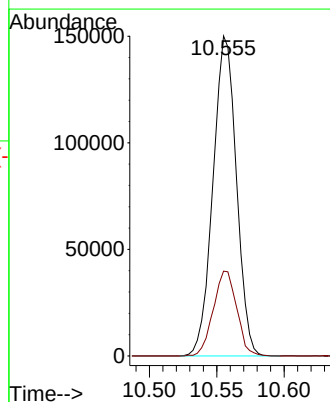
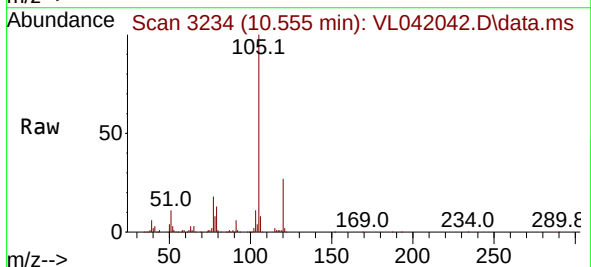
RT: 10.555 min Scan# 3234

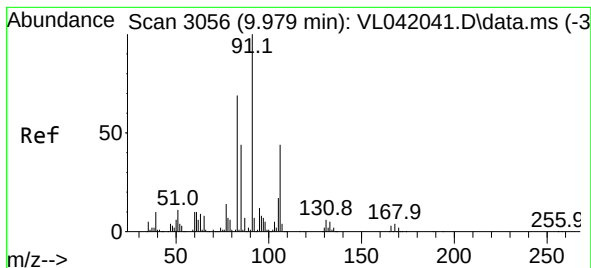
Delta R.T. 0.000 min

Lab File: VL042042.D

Acq: 25 Feb 2025 09:29

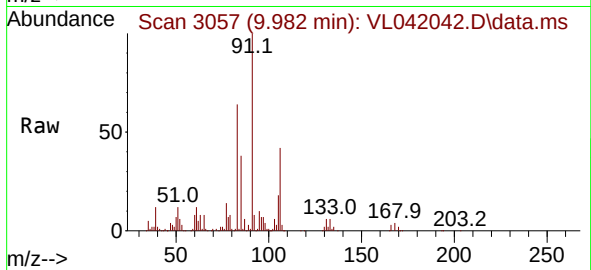
Tgt Ion:105 Resp: 181311
 Ion Ratio Lower Upper
 105 100
 120 26.5 19.8 29.8





#63
1,1,2,2-Tetrachloroethane
Concen: 1.833 ppbv
RT: 9.982 min Scan# 3056
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

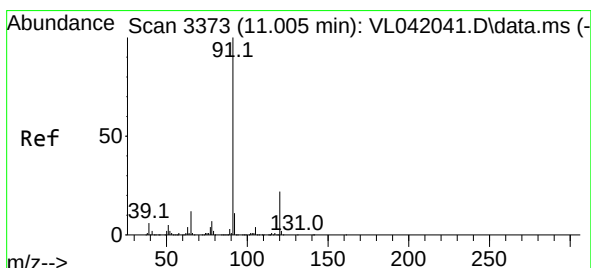
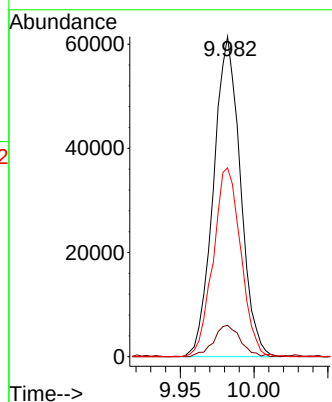
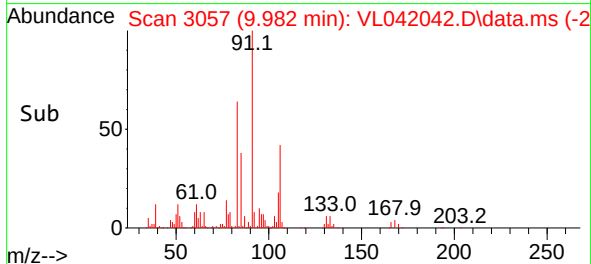
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



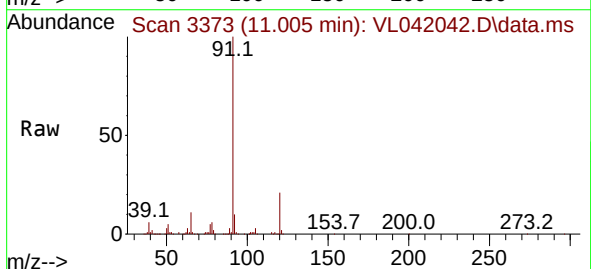
Tgt Ion: 83 Resp: 7791
Ion Ratio Lower Upper
83 100
131 9.9 5.0 15.0
85 60.6 32.1 96.3

Manual Integrations
APPROVED

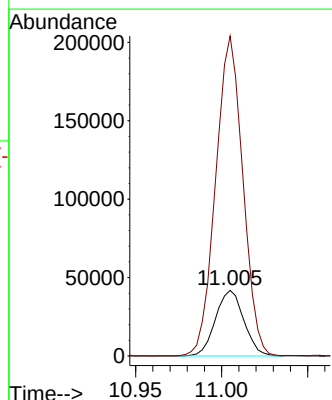
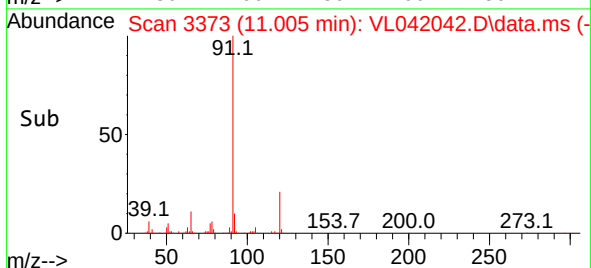
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

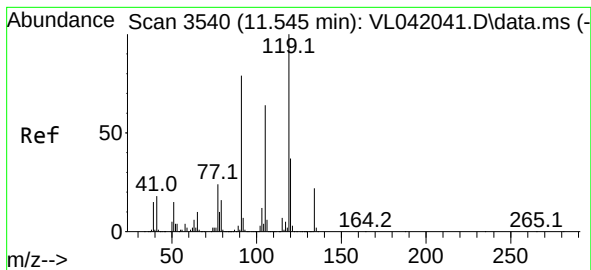


#64
n-propylbenzene
Concen: 1.965 ppbv
RT: 11.005 min Scan# 3373
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29



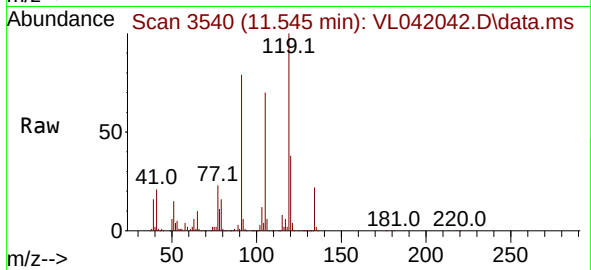
Tgt Ion:120 Resp: 47764
Ion Ratio Lower Upper
120 100
91 469.7 392.2 588.2





#65
tert-Butylbenzene
Concen: 1.948 ppbv
RT: 11.545 min Scan# 3540
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

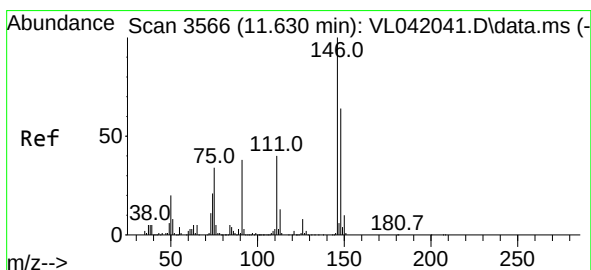
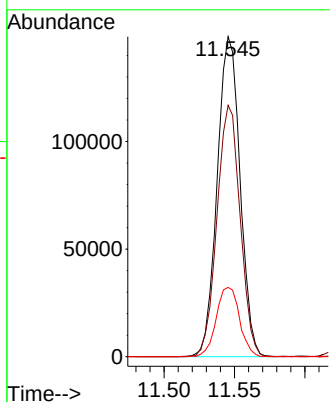
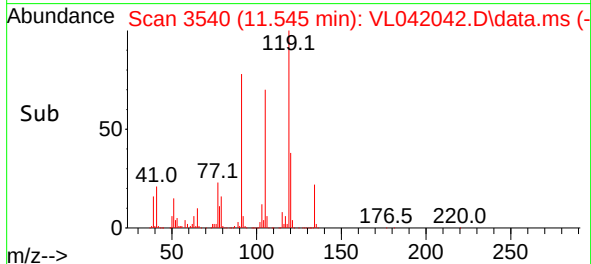
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



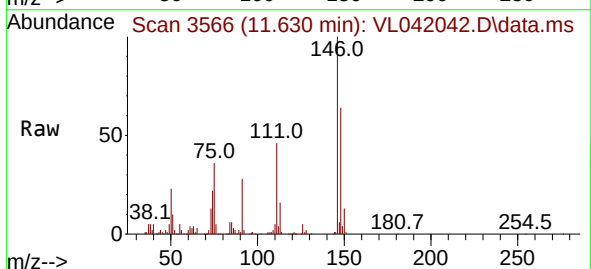
Tgt Ion: 119 Resp: 16797
Ion Ratio Lower Upper
119 100
91 79.5 66.5 99.7
134 22.1 16.6 24.8

Manual Integrations
APPROVED

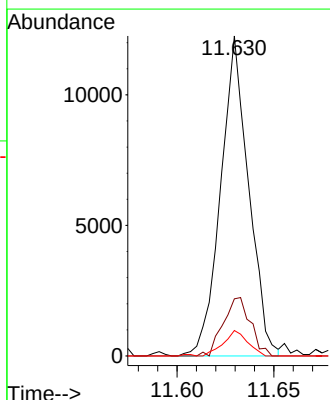
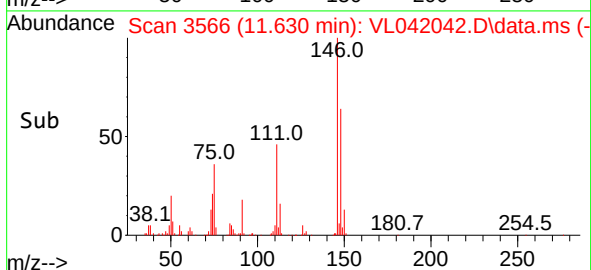
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

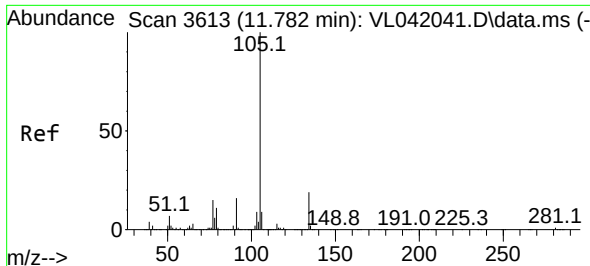


#66
Benzyl Chloride
Concen: 1.423 ppbv
RT: 11.630 min Scan# 3566
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29



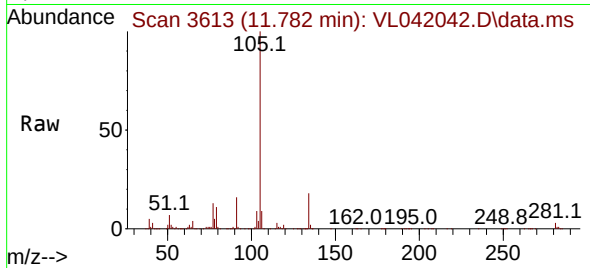
Tgt Ion: 91 Resp: 12304
Ion Ratio Lower Upper
91 100
126 17.7 13.8 20.6
128 7.0 4.1 6.1#





#67
 sec-Butylbenzene
 Concen: 1.986 ppbv
 RT: 11.782 min Scan# 3613
 Delta R.T. 0.000 min
 Lab File: VL042042.D
 Acq: 25 Feb 2025 09:29

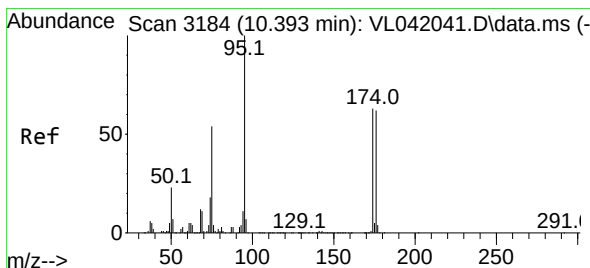
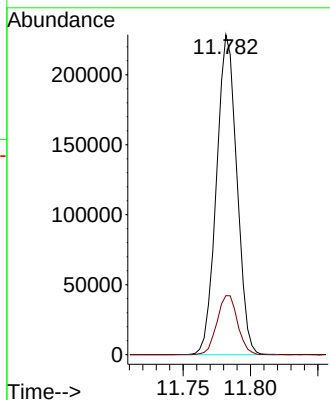
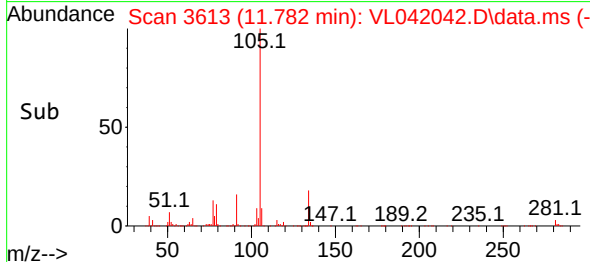
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002



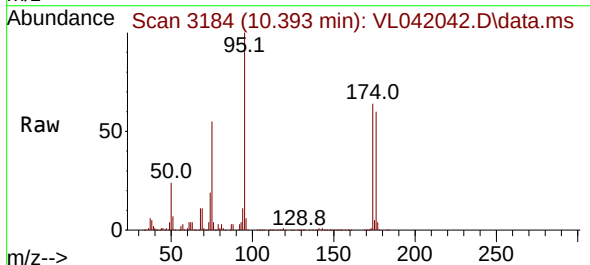
Tgt Ion: 105 Resp: 240504
 Ion Ratio Lower Upper
 105 100
 134 18.7 14.7 22.1

Manual Integrations
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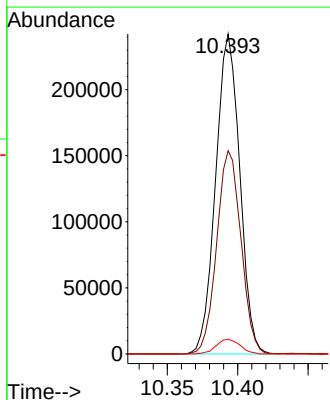
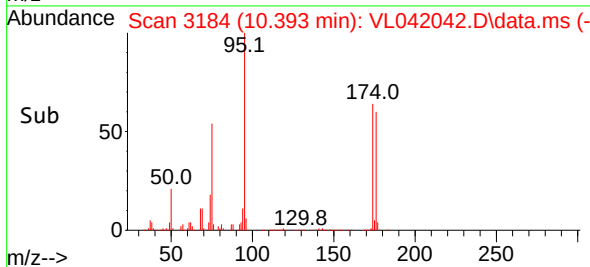
Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025

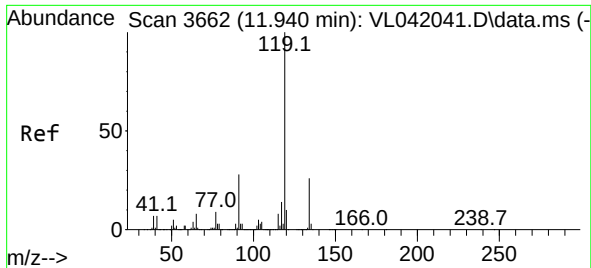


#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.273 ppbv
 RT: 10.393 min Scan# 3184
 Delta R.T. 0.003 min
 Lab File: VL042042.D
 Acq: 25 Feb 2025 09:29



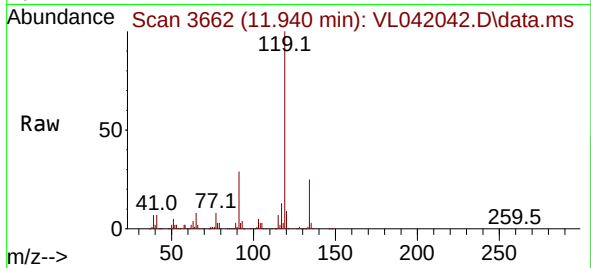
Tgt Ion: 95 Resp: 289049
 Ion Ratio Lower Upper
 95 100
 174 63.8 46.7 70.1
 175 4.5 3.7 5.5





#69
p-Isopropyltoluene
Concen: 1.963 ppbv
RT: 11.940 min Scan# 3662
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

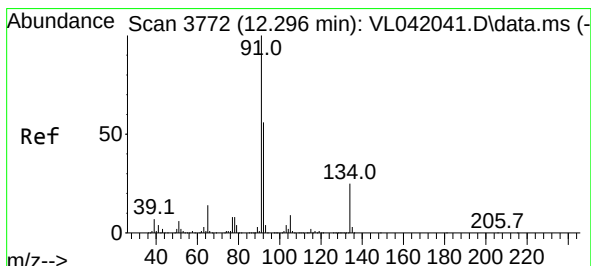
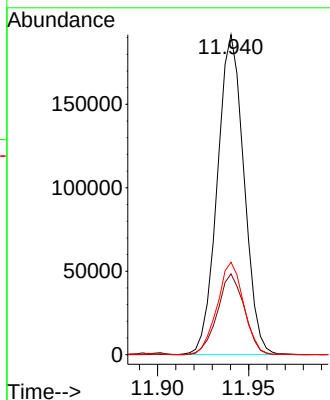
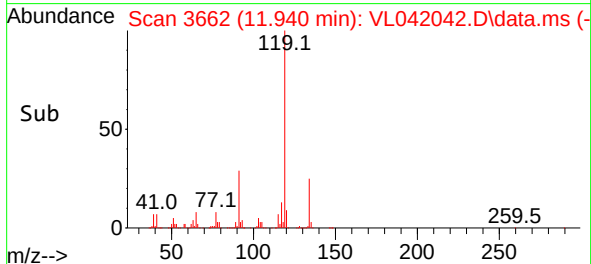
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



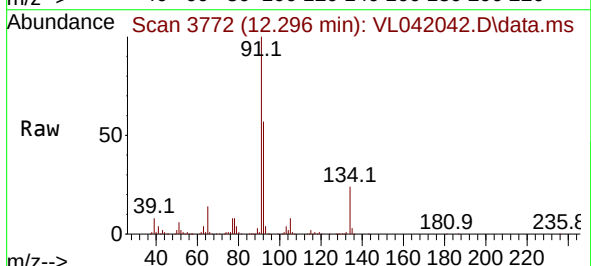
Tgt Ion: 119 Resp: 194660
Ion Ratio Lower Upper
119 100
134 25.6 19.4 29.0
91 29.2 23.4 35.2

Manual Integrations
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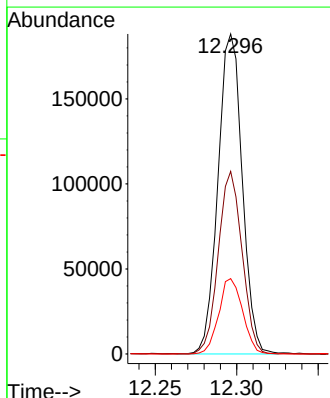
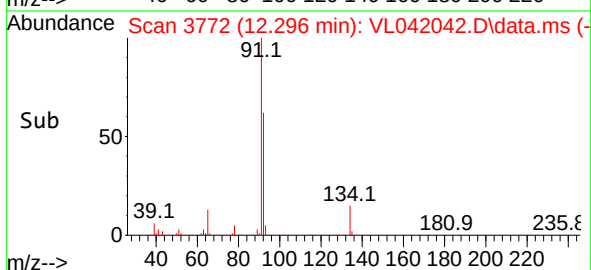
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

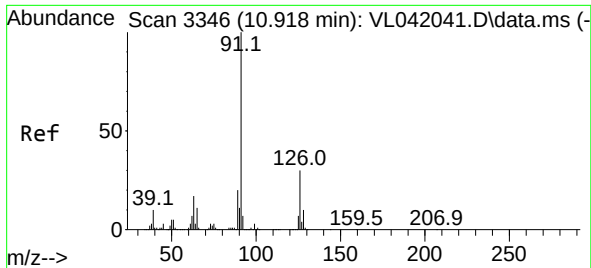


#70
n-Butylbenzene
Concen: 1.991 ppbv
RT: 12.296 min Scan# 3772
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29



Tgt Ion: 91 Resp: 194416
Ion Ratio Lower Upper
91 100
92 56.0 43.8 65.8
134 23.2 18.6 27.8





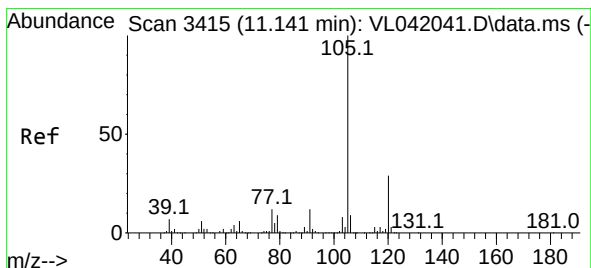
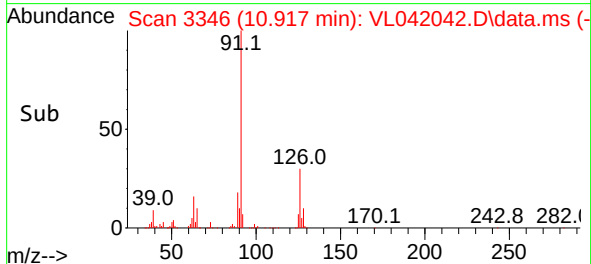
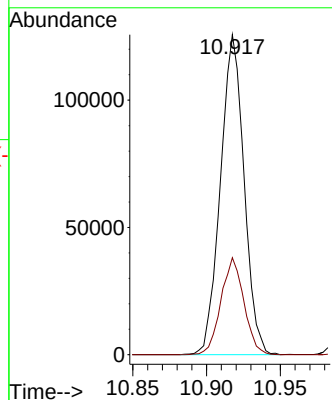
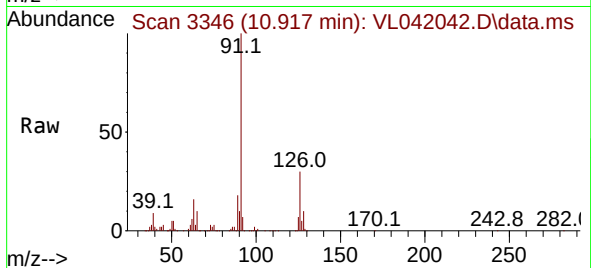
#71
2-Chlorotoluene
Concen: 1.880 ppbv
RT: 10.917 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion: 91 Resp: 140068
Ion Ratio Lower Upper
91 100
126 29.4 11.2 45.0

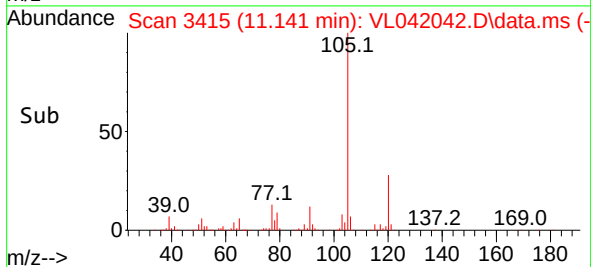
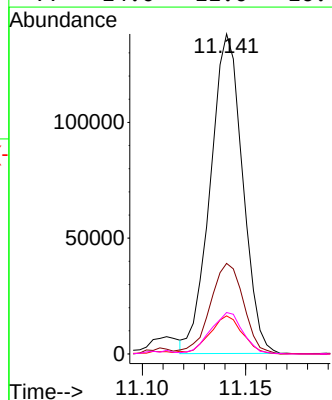
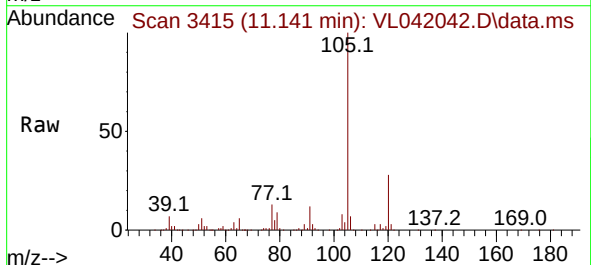
Manual Integrations
APPROVED

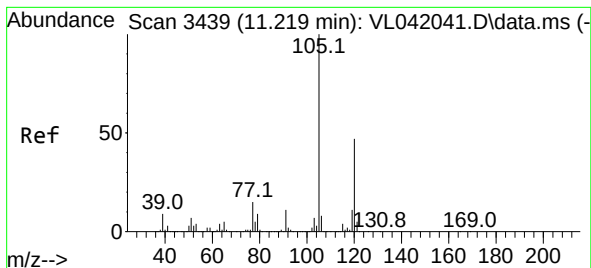
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#72
4-Ethyltoluene
Concen: 1.944 ppbv
RT: 11.141 min Scan# 3415
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion:105 Resp: 150038
Ion Ratio Lower Upper
105 100
120 30.6 22.7 34.1
91 12.9 10.2 15.2
77 14.0 11.0 16.4





#73

1,3,5-Trimethylbenzene

Concen: 1.925 ppbv

RT: 11.218 min Scan# 3439

Delta R.T. 0.000 min

Lab File: VL042042.D

Acq: 25 Feb 2025 09:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion:105 Resp: 12820

Ion Ratio Lower Upper

105 100

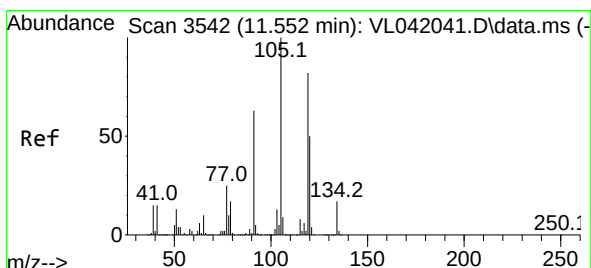
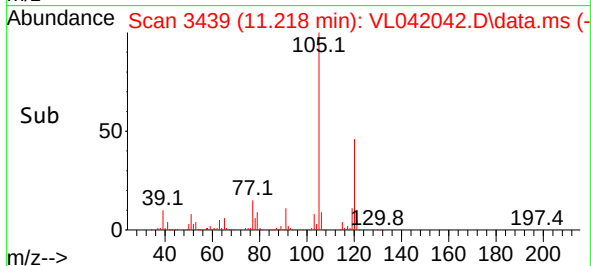
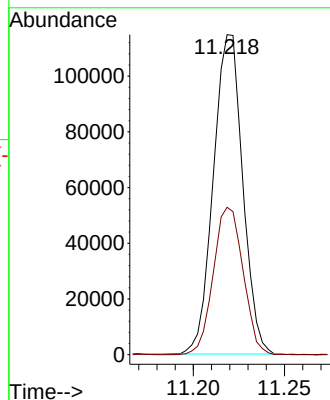
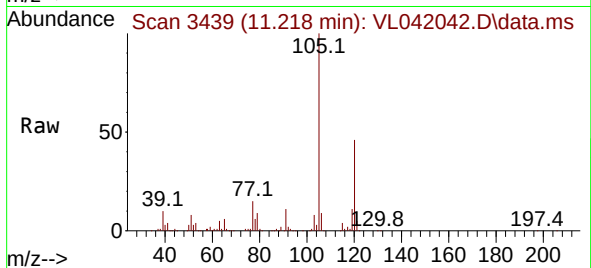
120 46.0 37.1 55.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025

Supervised By :Mahesh Dadoda 02/26/2025



#74

1,2,4-Trimethylbenzene

Concen: 2.104 ppbv

RT: 11.549 min Scan# 3541

Delta R.T. -0.003 min

Lab File: VL042042.D

Acq: 25 Feb 2025 09:29

Tgt Ion:105 Resp: 150380

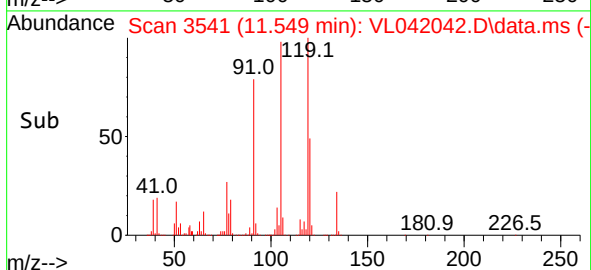
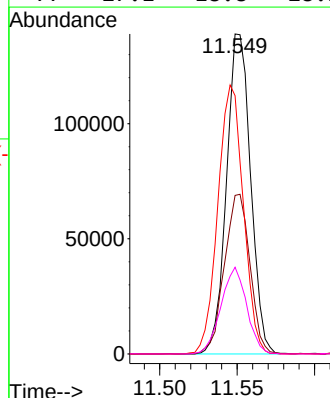
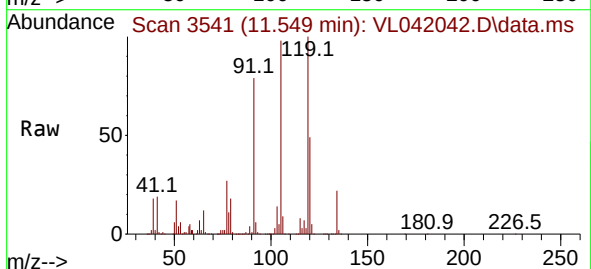
Ion Ratio Lower Upper

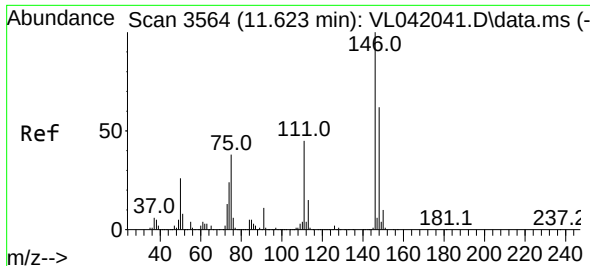
105 100

120 49.5 37.5 56.3

91 80.7 51.7 77.5#

77 27.1 18.8 28.2





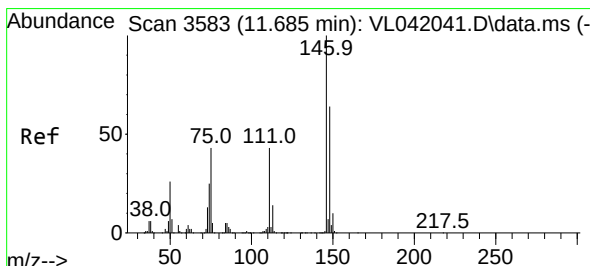
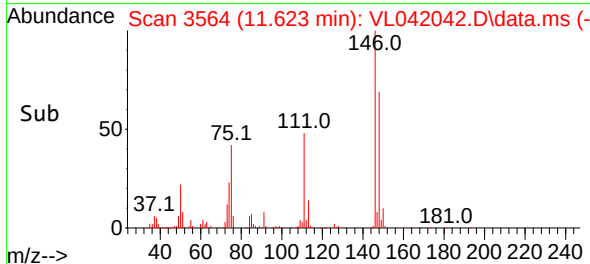
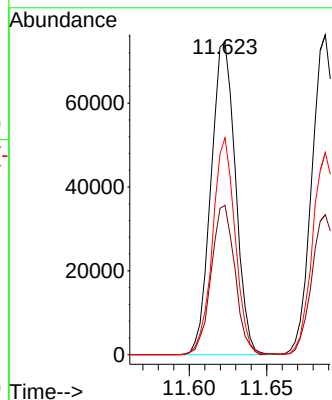
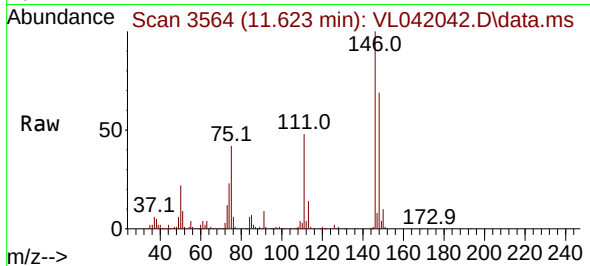
#75
1,3-Dichlorobenzene
Concen: 2.129 ppbv
RT: 11.623 min Scan# 3564
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:146 Resp: 81884
Ion Ratio Lower Upper
146 100
111 46.6 23.9 71.7
148 64.4 31.5 94.5

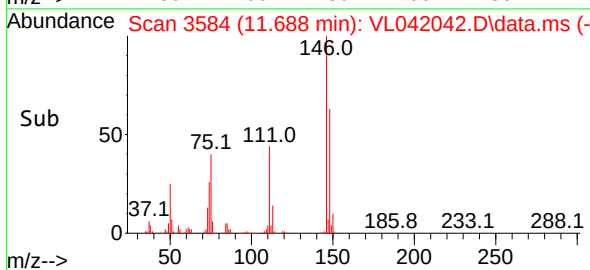
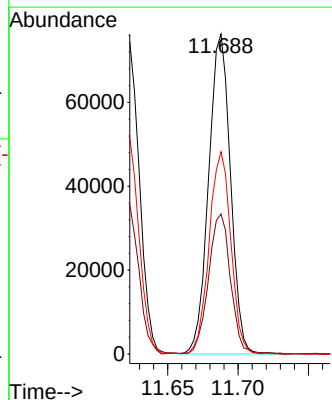
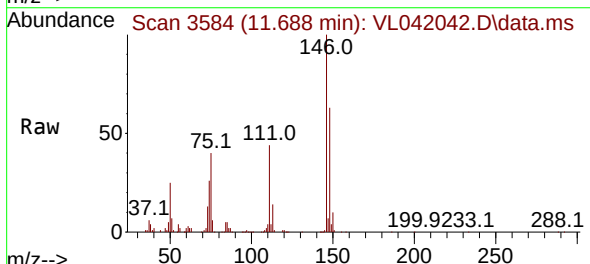
Manual Integrations
APPROVED

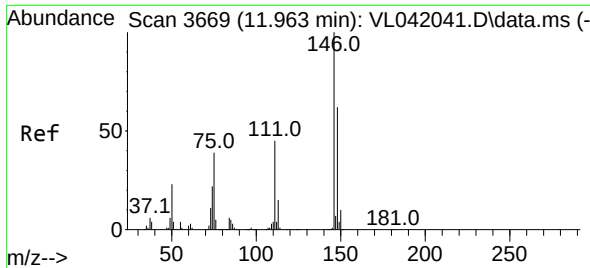
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#76
1,4-Dichlorobenzene
Concen: 2.201 ppbv
RT: 11.688 min Scan# 3584
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

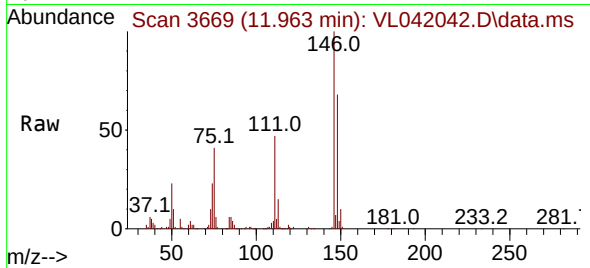
Tgt Ion:146 Resp: 82560
Ion Ratio Lower Upper
146 100
111 44.2 23.5 70.5
148 63.0 32.3 96.9





#77
1,2-Dichlorobenzene
Concen: 2.186 ppbv
RT: 11.963 min Scan# 3669
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

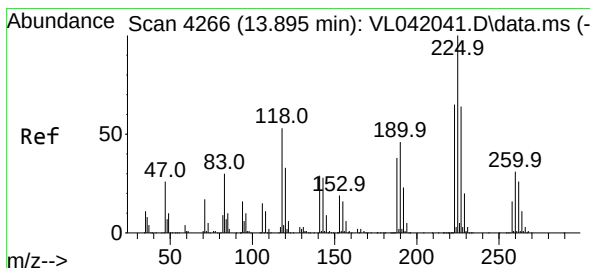
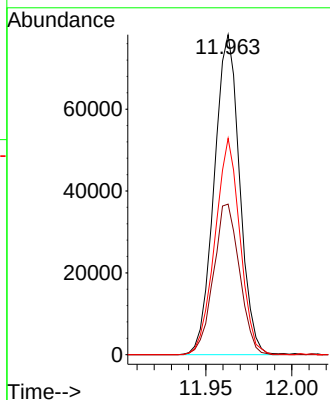
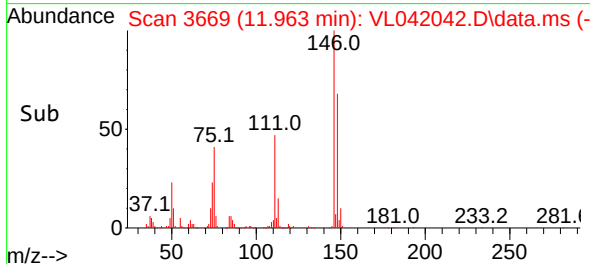
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



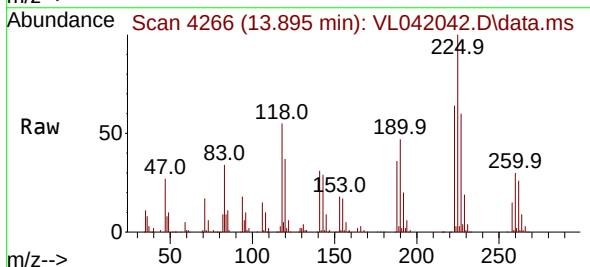
Tgt Ion:146 Resp: 8036
Ion Ratio Lower Upper
146 100
111 48.3 25.6 76.8
148 66.6 31.9 95.7

Manual Integrations
APPROVED

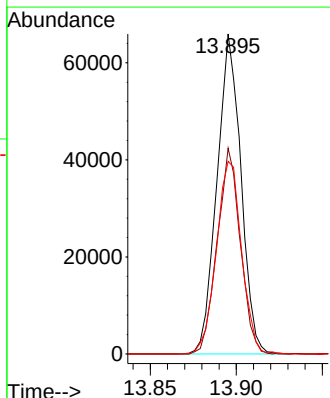
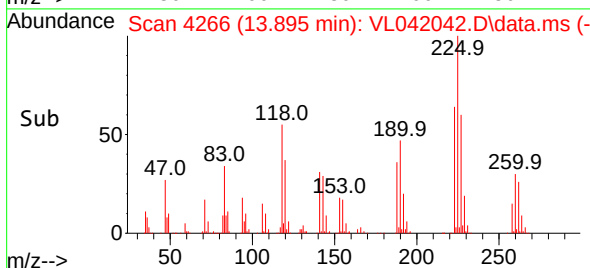
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

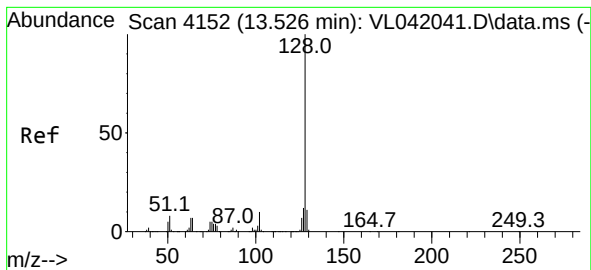


#78
Hexachloro-1,3-Butadiene
Concen: 2.098 ppbv
RT: 13.895 min Scan# 4266
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29



Tgt Ion:225 Resp: 63815
Ion Ratio Lower Upper
225 100
223 62.1 50.6 75.8
227 63.3 50.9 76.3





#79

Naphthalene

Concen: 1.454 ppbv

RT: 13.526 min Scan# 4152

Delta R.T. 0.000 min

Lab File: VL042042.D

Acq: 25 Feb 2025 09:29

Instrument :

MSVOA_L

ClientSampleId :

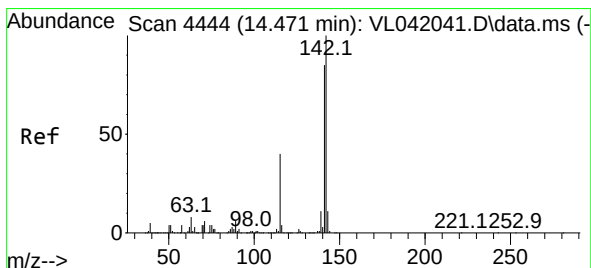
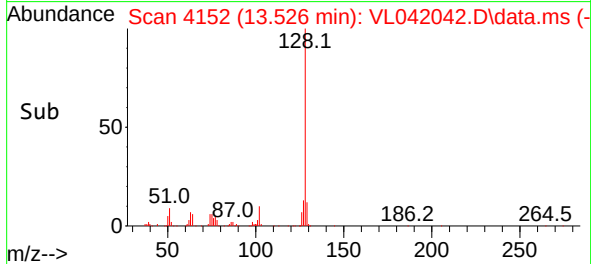
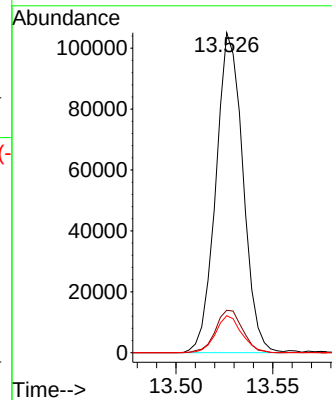
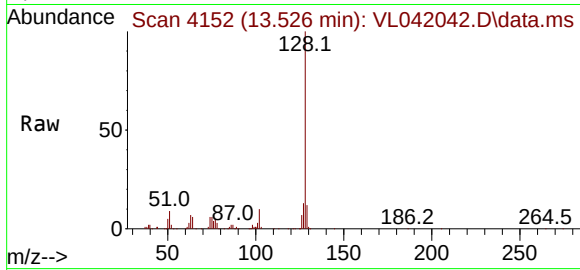
VSTDIC002

Tgt Ion:	128	Resp:	10219
Ion Ratio	Lower	Upper	
128	100		
127	13.3	10.2	15.2
129	11.6	8.6	13.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#80

Naphthalene,2-methyl-

Concen: 0.569 ppbv

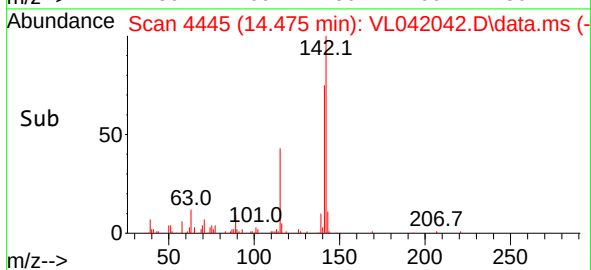
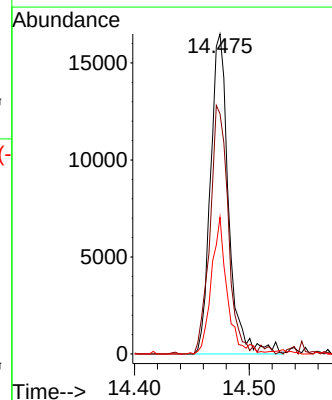
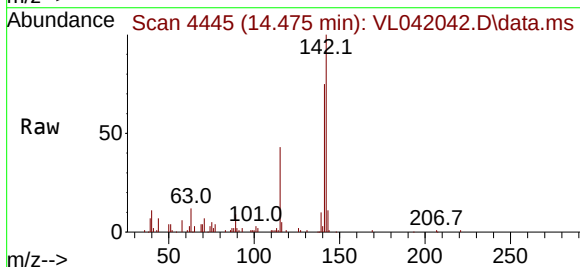
RT: 14.475 min Scan# 4445

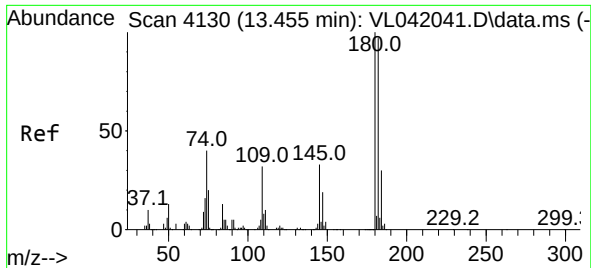
Delta R.T. 0.003 min

Lab File: VL042042.D

Acq: 25 Feb 2025 09:29

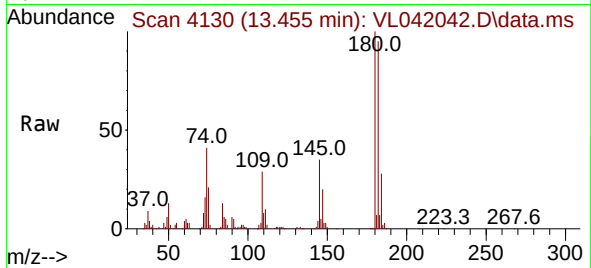
Tgt Ion:	142	Resp:	18104
Ion Ratio	Lower	Upper	
142	100		
141	79.7	68.2	102.2
115	38.7	33.6	50.4





#81
 1,2,4-Trichlorobenzene
 Concen: 2.023 ppbv
 RT: 13.455 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL042042.D
 Acq: 25 Feb 2025 09:29

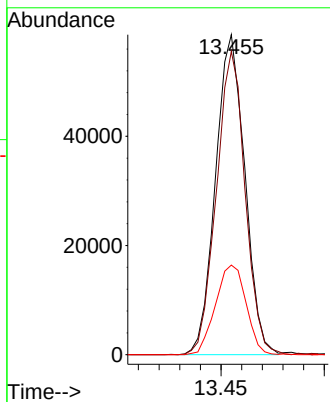
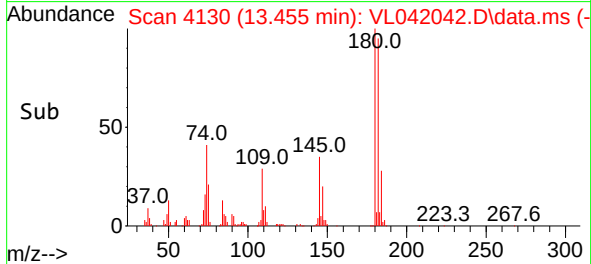
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002



Tgt Ion:180 Resp: 57798
 Ion Ratio Lower Upper
 180 100
 182 93.1 75.8 113.6
 184 29.2 24.2 36.4

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042043.D
 Acq On : 25 Feb 2025 10:00
 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 02/26/2025
 Supervised By : Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 10:27:35 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

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

QLast Update : Tue Feb 25 10:15:00 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.800	49	161096	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.978	114	423363	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	369917	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.390 95 287450 9.420 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 94.200%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	17457	0.629	ppbv	95
3) Chlorodifluoromethane	1.479	51	25229	0.823	ppbv	98
4) Chloromethane	1.538	50	6417	0.595	ppbv #	75
5) Vinyl Chloride	1.586	62	5567	0.432	ppbv	96
6) Bromomethane	1.674	94	2966	0.594	ppbv	100
7) Chloroethane	1.709	64	2542	0.605	ppbv	96
8) Dichlorotetrafluoroethane	1.560	85	14655	0.601	ppbv	90
9) Propene	1.486	41	10156	0.768	ppbv	96
10) Heptane	4.998	43	31354m	0.854	ppbv	
11) Trichlorofluoromethane	1.884	101	18079	0.648	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.149	101	14527	0.667	ppbv	92
13) Ethanol	1.725	45	915m	0.614	ppbv	
14) Bromoethene	1.787	108	4905	0.604	ppbv #	95
15) Acetone	1.845	43	15468	0.582	ppbv	98
16) 1,3-Butadiene	1.615	39	7010	0.556	ppbv	99
17) tert-Butyl alcohol	2.052	59	19092	0.580	ppbv	97
18) 1,1-Dichloroethene	2.043	96	7042	0.677	ppbv	94
19) Isopropyl Alcohol	1.894	45	9191	0.616	ppbv #	32
20) Methylene Chloride	2.068	84	6026	0.602	ppbv	95
21) Allyl Chloride	2.104	41	11550	0.600	ppbv	95
22) trans-1,2-Dichloroethene	2.347	96	8145m	0.722	ppbv	
23) Vinyl Acetate	2.473	43	9893	0.687	ppbv #	91
24) 1,1-Dichloroethane	2.418	63	13783	0.601	ppbv	98
25) Ethyl Acetate	2.852	43	59183	0.811	ppbv	99
26) Hexane	2.836	57	23549	0.804	ppbv	96
27) Carbon Disulfide	2.159	76	15659	0.568	ppbv #	46
28) Methyl tert-Butyl Ether	2.454	73	13593	0.759	ppbv	95
29) Chloroform	2.861	83	32925	0.776	ppbv	94
30) Cyclohexane	3.874	84	19953	0.840	ppbv	97
31) cis-1,2-Dichloroethene	2.732	61	22565	0.780	ppbv	97
32) 1,1,1-Trichloroethane	3.386	97	30870	0.656	ppbv	96
34) 2-Butanone	2.570	43	33820	0.929	ppbv	99
35) Carbon Tetrachloride	3.777	117	30618	0.745	ppbv	90
36) Benzene	3.674	78	45892	0.895	ppbv	96
37) 1,2-Dichloroethane	3.234	62	25585	0.876	ppbv	99
38) Trichloroethene	4.570	130	18921	0.908	ppbv	91
39) 1,2-Dichloropropane	4.334	63	17557	0.934	ppbv	94
40) 1,4-Dioxane	4.619	88	8319m	0.850	ppbv	
41) Tetrahydrofuran	3.075	42	20823	1.000	ppbv	96
42) Bromodichloromethane	4.515	83	33481	0.847	ppbv	97
43) Methyl Methacrylate	4.907	69	17679	0.756	ppbv	99
44) 2,2,4-Trimethylpentane	4.661	57	81921	0.941	ppbv	98
45) t-1,3-Dichloropropene	6.444	75	16578m	0.751	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042043.D
 Acq On : 25 Feb 2025 10:00
 Operator : SY/MD
 Sample : VSTDIC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025
 Supervised By : Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 10:27:35 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Feb 25 10:15:00 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.632	75	22127m	0.790	ppbv	
47) 1,1,2-Trichloroethane	6.616	97	18160m	0.918	ppbv	
48) Dibromochloromethane	7.412	129	28239	0.852	ppbv	97
49) Bromoform	9.500	173	23310	0.858	ppbv	94
50) 4-Methyl-2-Pentanone	5.791	43	41249m	0.737	ppbv	
51) 2-Hexanone	7.470	43	24117	0.527	ppbv #	97
52) Tetrachloroethene	8.241	164	16217	0.907	ppbv	89
53) Toluene	6.959	91	51231	0.838	ppbv	99
54) 1,2-Dibromoethane	7.674	107	23427	0.860	ppbv	94
56) 1,1,1,2-Tetrachloroethane	8.943	131	22060	0.833	ppbv	97
57) Chlorobenzene	8.937	112	41173	0.946	ppbv	96
58) Ethyl Benzene	9.370	91	70507	0.871	ppbv	97
59) m/p-Xylene	9.568	91	114691m	1.799	ppbv	
60) o-Xylene	9.979	91	57322	0.889	ppbv	99
61) Styrene	9.885	104	26596	0.865	ppbv	98
62) Isopropylbenzene	10.555	105	86533	0.894	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.979	83	38520	0.926	ppbv	98
64) n-propylbenzene	11.002	120	22456	0.944	ppbv	94
65) tert-Butylbenzene	11.545	119	83284	0.987	ppbv	99
66) Benzyl Chloride	11.626	91	5880m	0.695	ppbv	
67) sec-Butylbenzene	11.782	105	119435	1.007	ppbv	99
69) p-Isopropyltoluene	11.940	119	93710	0.966	ppbv	99
70) n-Butylbenzene	12.293	91	94969	0.993	ppbv	98
71) 2-Chlorotoluene	10.914	91	67655	0.928	ppbv	98
72) 4-Ethyltoluene	11.137	105	71906	0.952	ppbv	99
73) 1,3,5-Trimethylbenzene	11.215	105	64087	0.983	ppbv	96
74) 1,2,4-Trimethylbenzene	11.549	105	73323	1.048	ppbv	100
75) 1,3-Dichlorobenzene	11.620	146	41063	1.091	ppbv	99
76) 1,4-Dichlorobenzene	11.685	146	39235	1.068	ppbv	99
77) 1,2-Dichlorobenzene	11.960	146	40574	1.127	ppbv	98
78) Hexachloro-1,3-Butadiene	13.895	225	30764	1.033	ppbv	99
79) Naphthalene	13.526	128	45743	0.665	ppbv	98
80) Naphthalene,2-methyl-	14.471	142	5244	0.168	ppbv	94
81) 1,2,4-Trichlorobenzene	13.452	180	25404	0.908	ppbv	95

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042043.D
Acq On : 25 Feb 2025 10:00
Operator : SY/MD
Sample : VSTDIC001
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

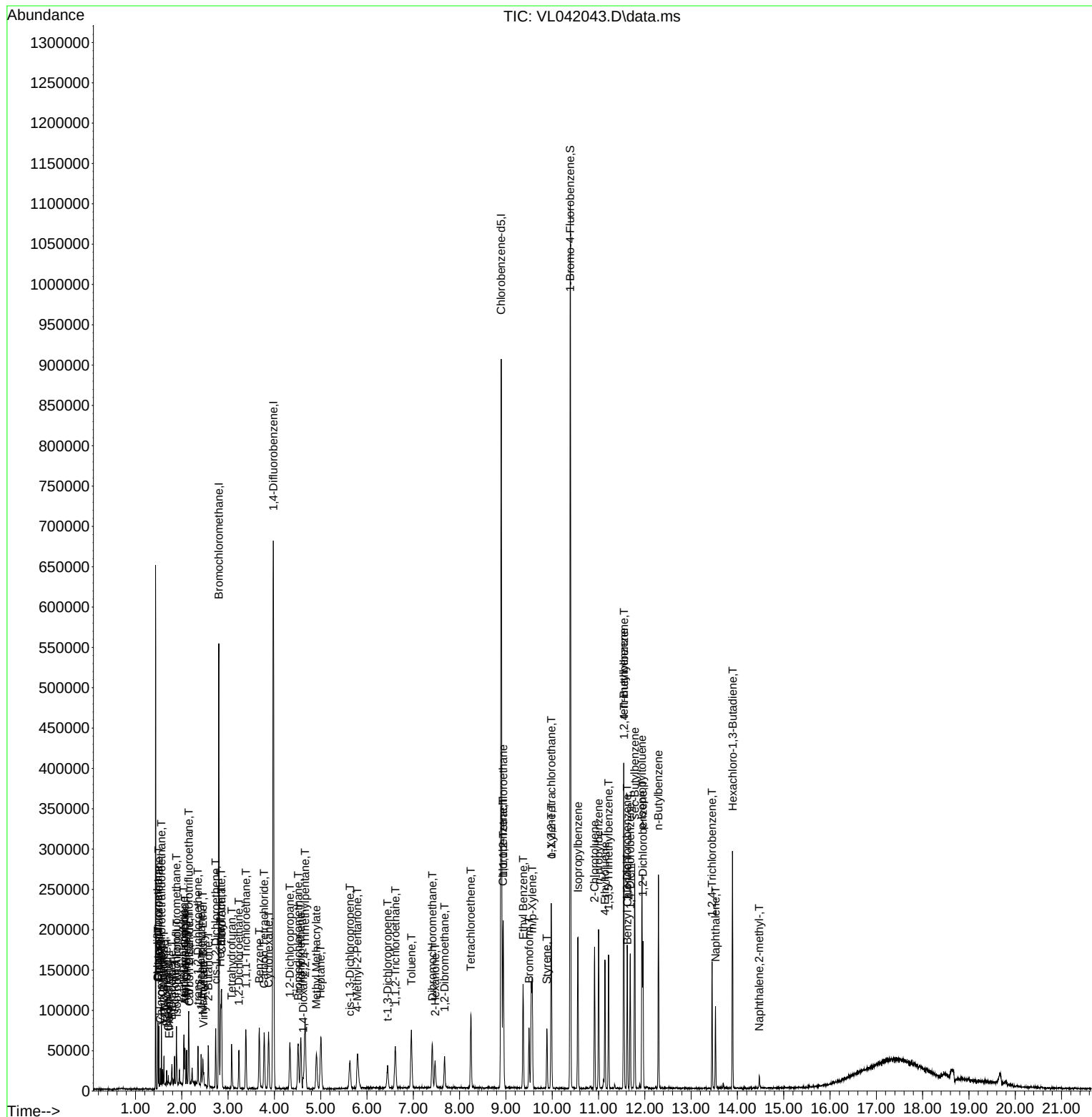
Quant Time: Feb 25 10:27:35 2025

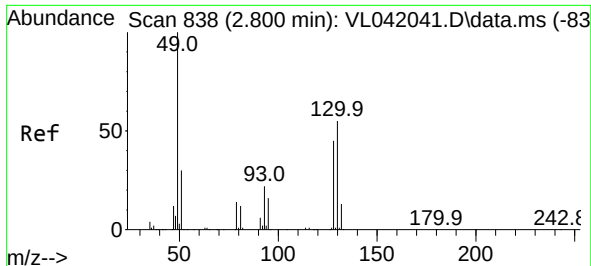
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

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

QLast Update : Tue Feb 25 10:15:00 2025

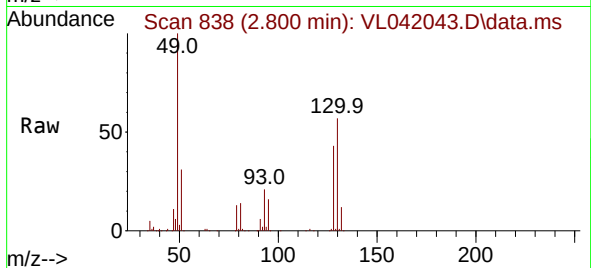
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 838
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

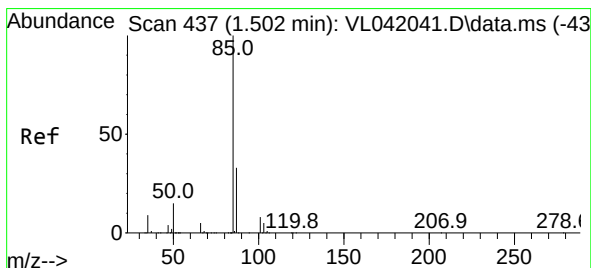
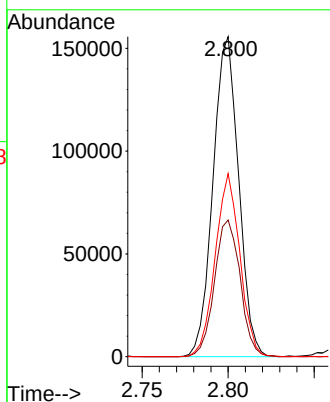
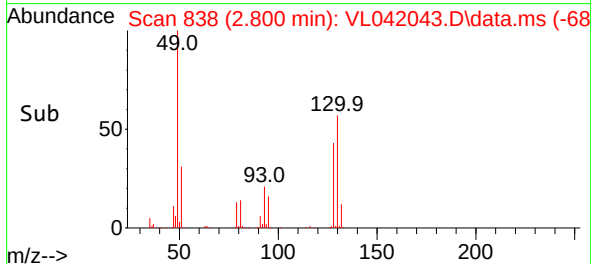
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



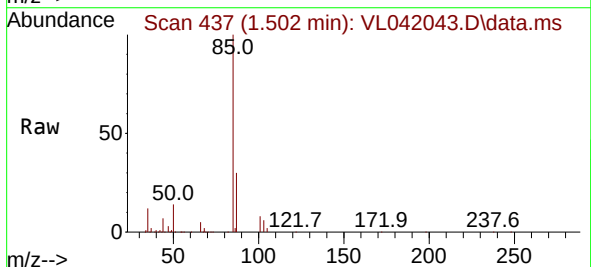
Tgt Ion: 49 Resp: 161090
Ion Ratio Lower Upper
49 100
128 42.9 21.6 64.8
130 55.0 27.8 83.4

Manual Integrations
APPROVED

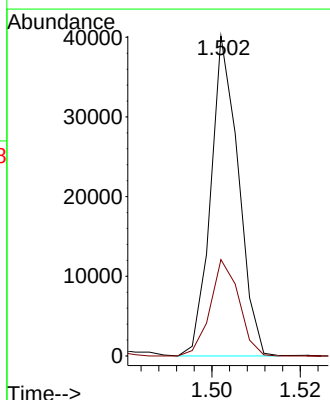
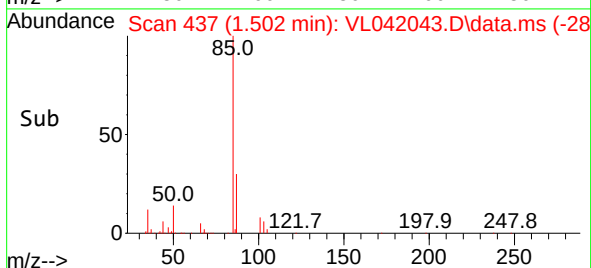
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

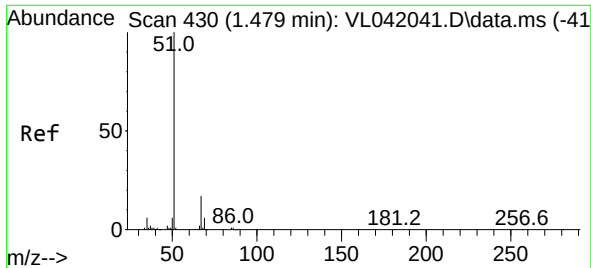


#2
Dichlorodifluoromethane
Concen: 0.629 ppbv
RT: 1.502 min Scan# 437
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00



Tgt Ion: 85 Resp: 17457
Ion Ratio Lower Upper
85 100
87 30.1 26.4 39.6





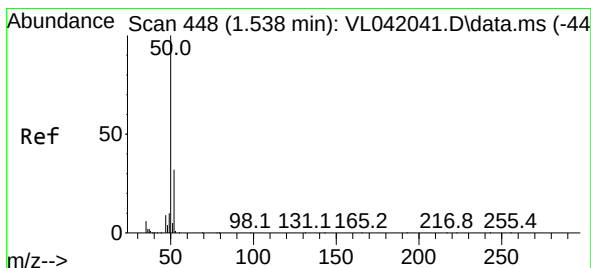
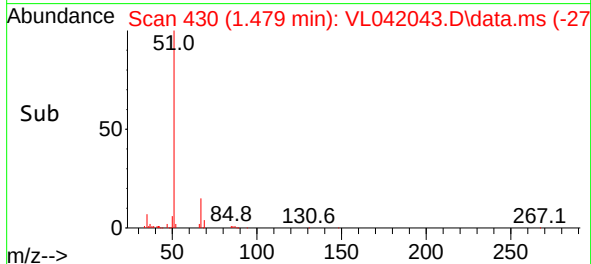
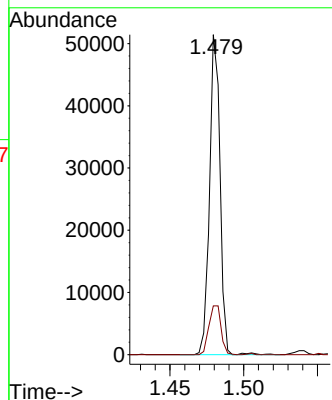
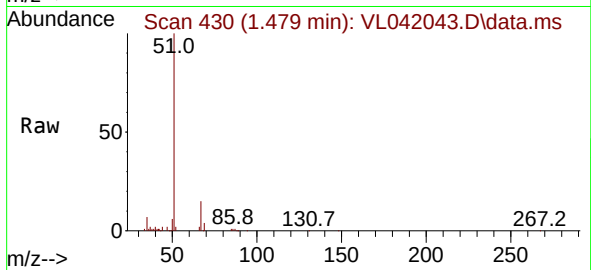
#3
Chlorodifluoromethane
Concen: 0.823 ppbv
RT: 1.479 min Scan# 430
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 51 Resp: 25229
Ion Ratio Lower Upper
51 100
67 17.9 13.7 20.5

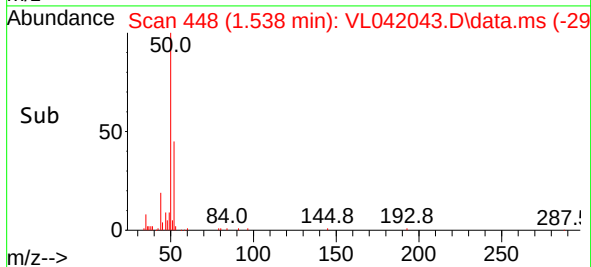
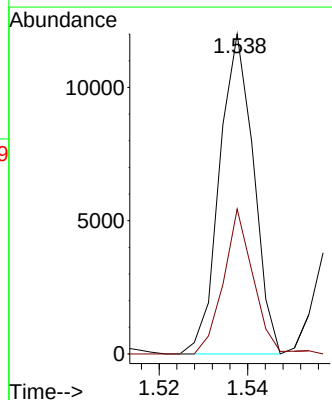
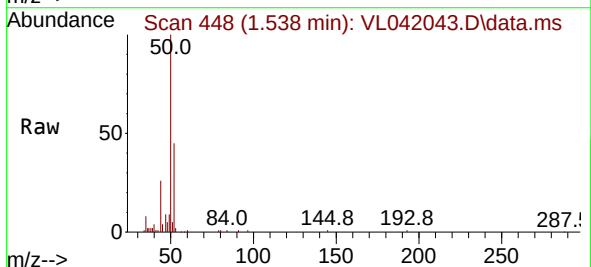
Manual Integrations
APPROVED

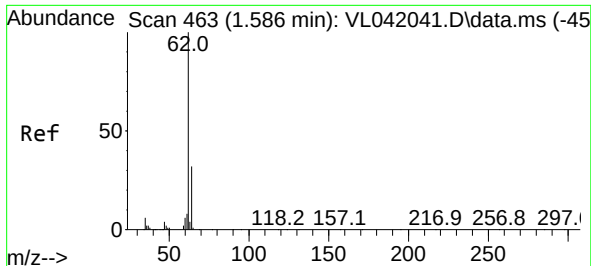
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#4
Chloromethane
Concen: 0.595 ppbv
RT: 1.538 min Scan# 448
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

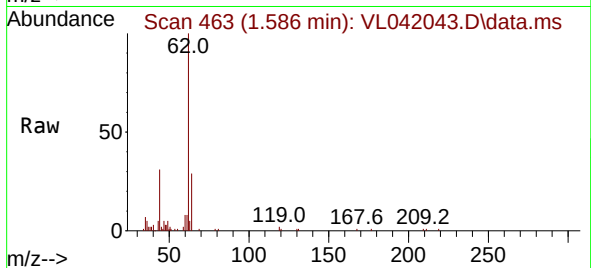
Tgt Ion: 50 Resp: 6417
Ion Ratio Lower Upper
50 100
52 45.3 25.4 38.0#





#5
 Vinyl Chloride
 Concen: 0.432 ppbv
 RT: 1.586 min Scan# 463
 Delta R.T. -0.000 min
 Lab File: VL042043.D
 Acq: 25 Feb 2025 10:00

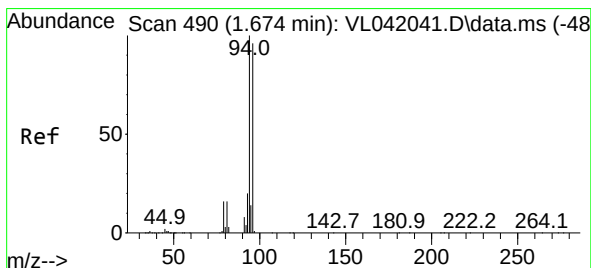
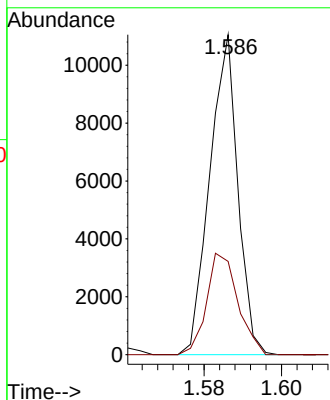
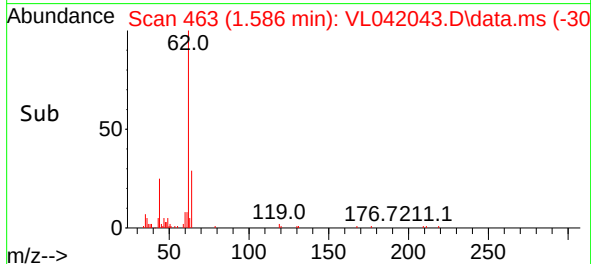
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001



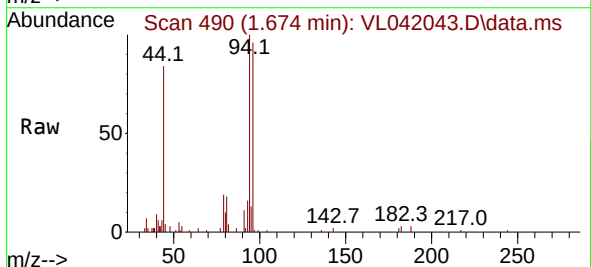
Tgt Ion: 62 Resp: 556
 Ion Ratio Lower Upper
 62 100
 64 29.2 25.3 37.9

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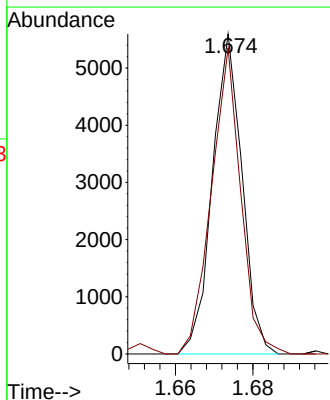
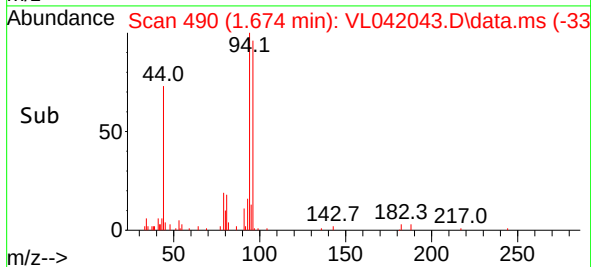
Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025

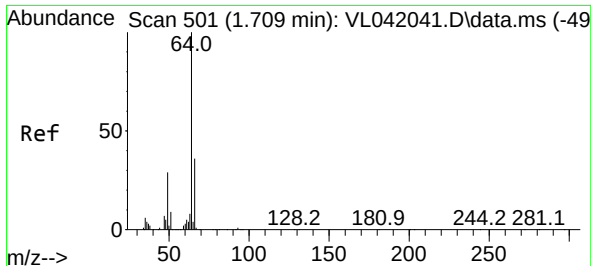


#6
 Bromomethane
 Concen: 0.594 ppbv
 RT: 1.674 min Scan# 490
 Delta R.T. -0.000 min
 Lab File: VL042043.D
 Acq: 25 Feb 2025 10:00



Tgt Ion: 94 Resp: 2966
 Ion Ratio Lower Upper
 94 100
 96 95.7 76.5 114.7





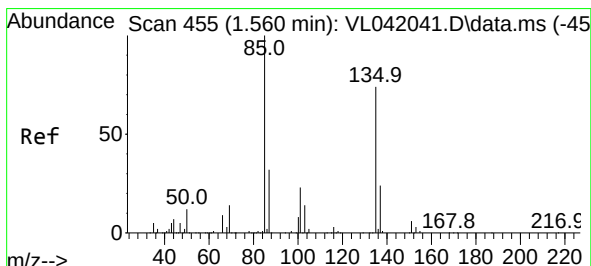
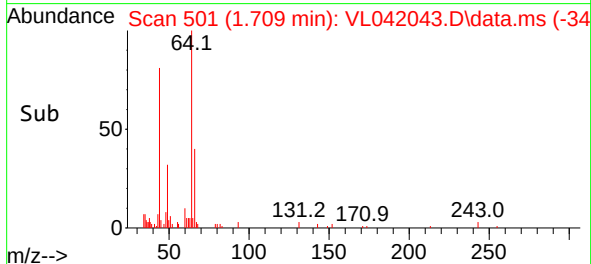
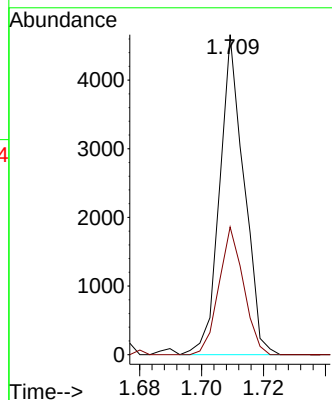
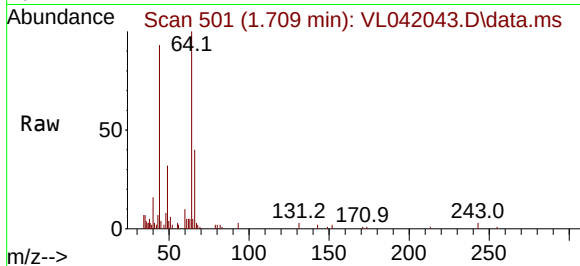
#7
Chloroethane
Concen: 0.605 ppbv
RT: 1.709 min Scan# 501
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 64 Resp: 2542
Ion Ratio Lower Upper
64 100
66 37.9 28.4 42.6

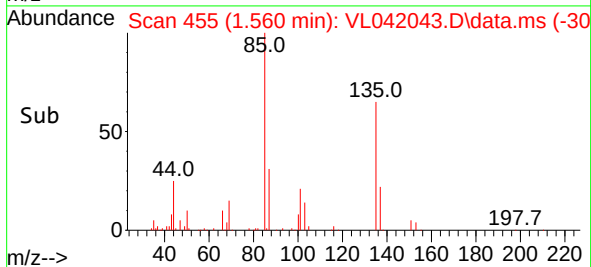
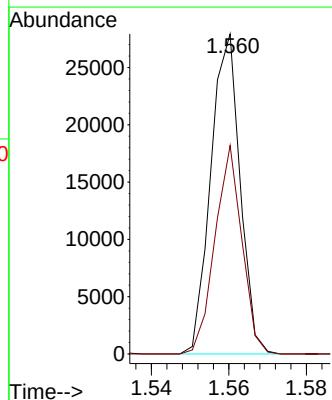
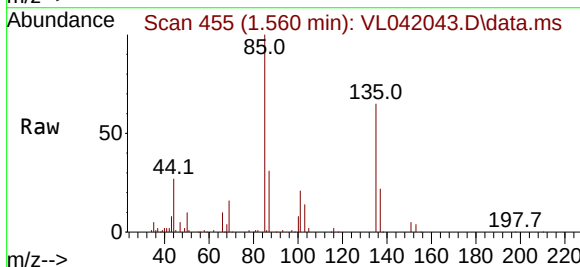
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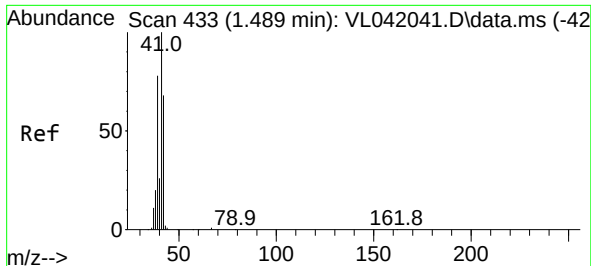
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#8
Dichlorotetrafluoroethane
Concen: 0.601 ppbv
RT: 1.560 min Scan# 455
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 85 Resp: 14655
Ion Ratio Lower Upper
85 100
135 59.9 54.6 81.8





#9

Propene

Concen: 0.768 ppbv

RT: 1.486 min Scan# 41

Delta R.T. -0.003 min

Lab File: VL042043.D

Acq: 25 Feb 2025 10:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion: 41 Resp: 10150

Ion Ratio Lower Upper

41 100

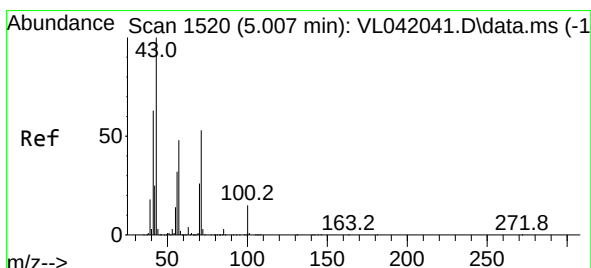
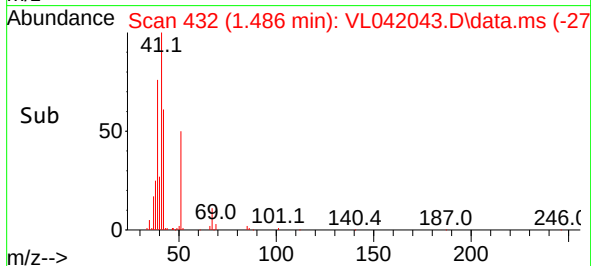
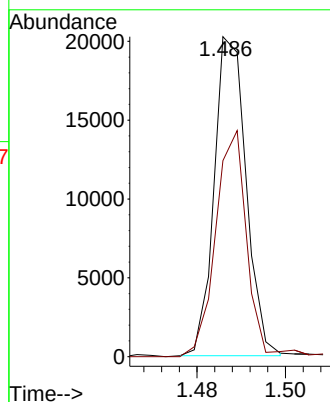
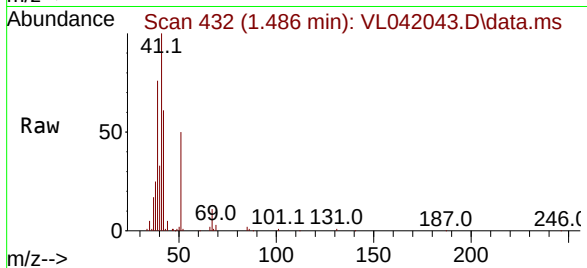
42 72.6 55.8 83.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025

Supervised By :Mahesh Dadoda 02/26/2025



#10

Heptane

Concen: 0.854 ppbv m

RT: 4.998 min Scan# 1517

Delta R.T. -0.010 min

Lab File: VL042043.D

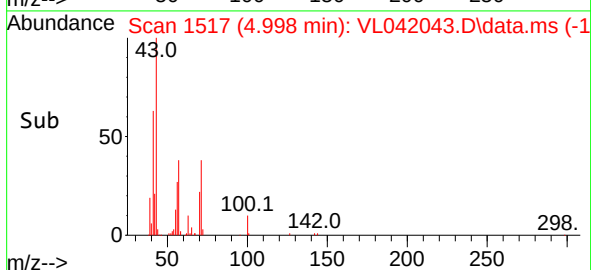
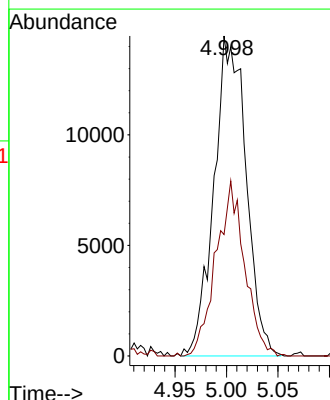
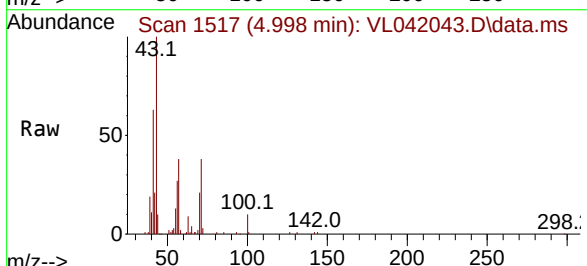
Acq: 25 Feb 2025 10:00

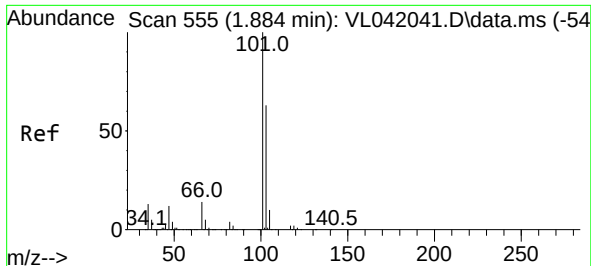
Tgt Ion: 43 Resp: 31354

Ion Ratio Lower Upper

43 100

57 48.7 39.4 59.0





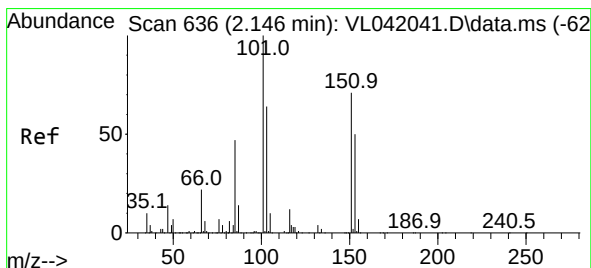
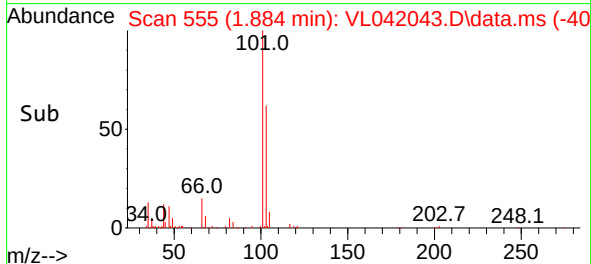
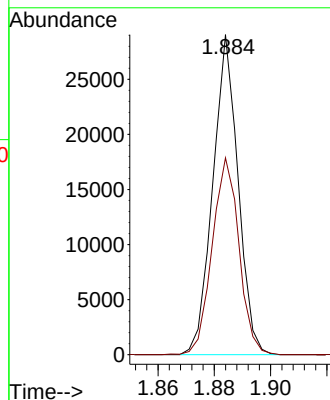
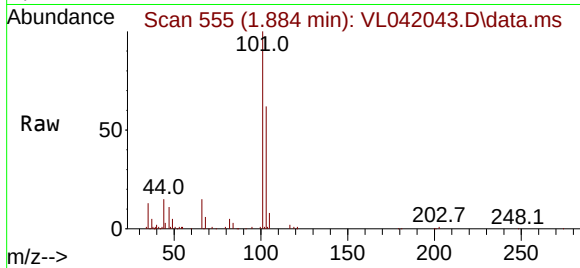
#11
 Trichlorofluoromethane
 Concen: 0.648 ppbv
 RT: 1.884 min Scan# 555
 Delta R.T. -0.000 min
 Lab File: VL042043.D
 Acq: 25 Feb 2025 10:00

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tgt Ion:101 Resp: 18079
 Ion Ratio Lower Upper
 101 100
 103 61.5 50.6 75.8

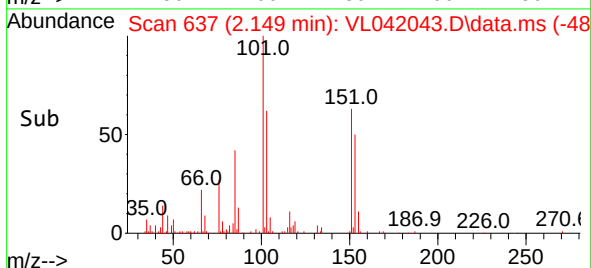
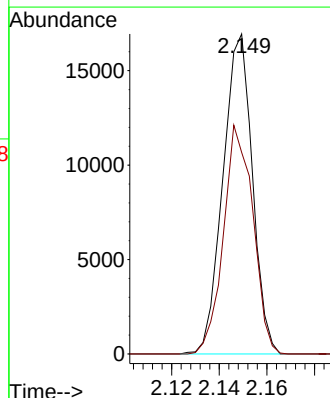
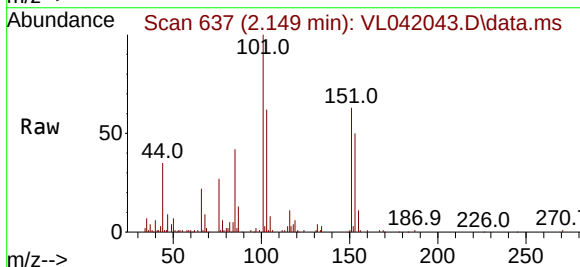
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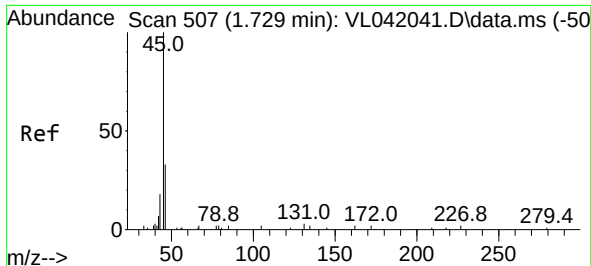
Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.667 ppbv
 RT: 2.149 min Scan# 637
 Delta R.T. 0.003 min
 Lab File: VL042043.D
 Acq: 25 Feb 2025 10:00

Tgt Ion:101 Resp: 14527
 Ion Ratio Lower Upper
 101 100
 151 71.7 62.6 94.0





#13

Ethanol

Concen: 0.614 ppbv m

RT: 1.725 min Scan# 507

Delta R.T. -0.003 min

Lab File: VL042043.D

Acq: 25 Feb 2025 10:00

Instrument :

MSVOA_L

ClientSampleId :

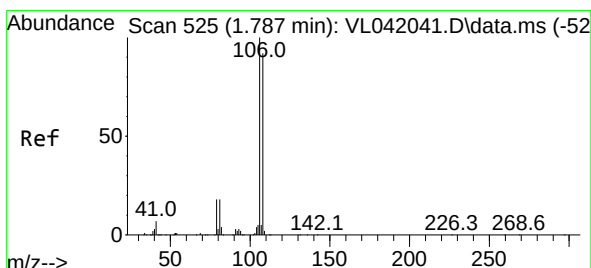
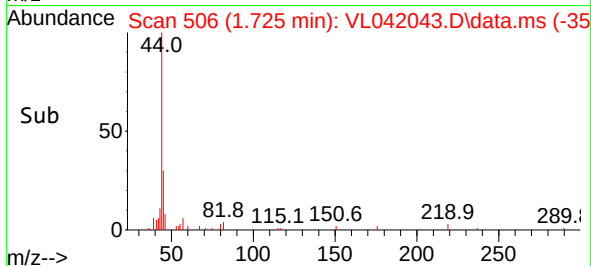
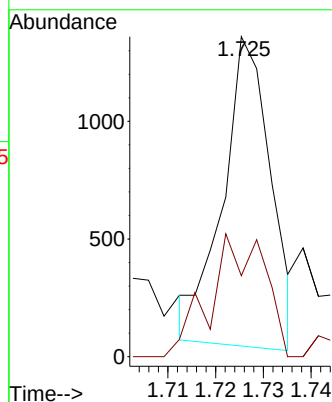
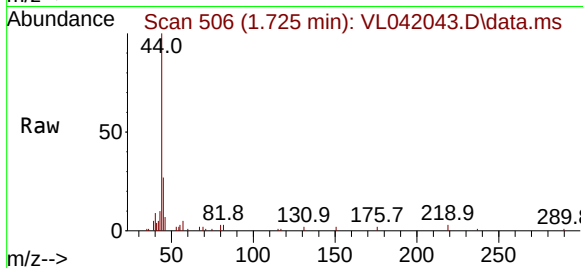
VSTDIC001

Tgt Ion: 45 Resp: 915
 Ion Ratio Lower Upper
 45 100
 46 44.9 17.1 68.3

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Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025



#14

Bromoethene

Concen: 0.604 ppbv

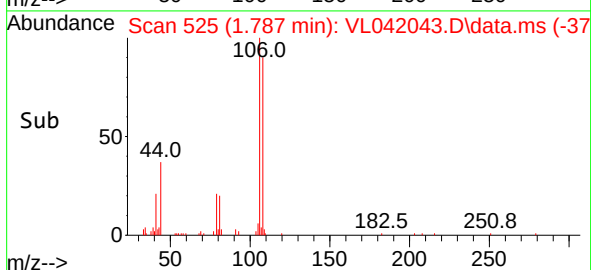
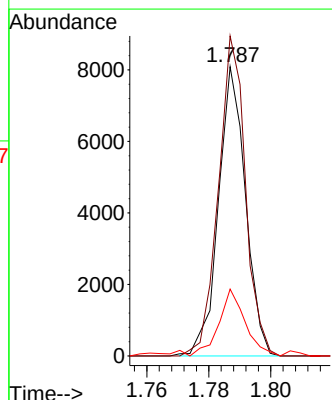
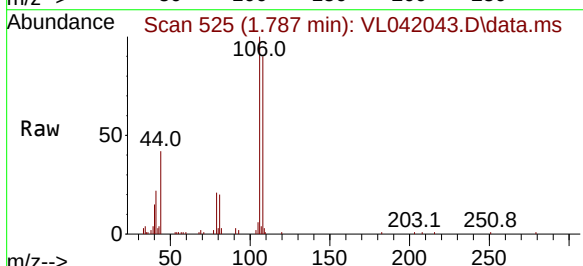
RT: 1.787 min Scan# 525

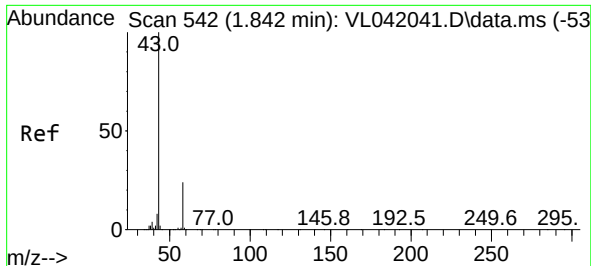
Delta R.T. -0.000 min

Lab File: VL042043.D

Acq: 25 Feb 2025 10:00

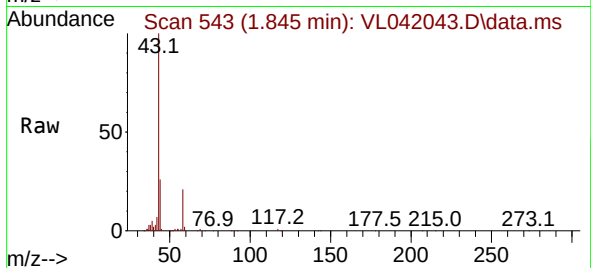
Tgt Ion:108 Resp: 4905
 Ion Ratio Lower Upper
 108 100
 106 110.4 85.4 128.0
 79 24.9 16.5 24.7#





#15
Acetone
Concen: 0.582 ppbv
RT: 1.845 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

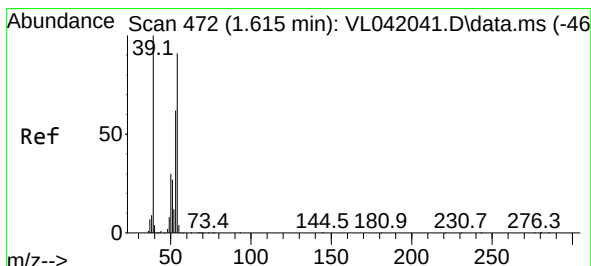
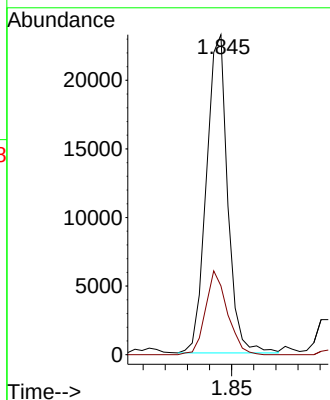
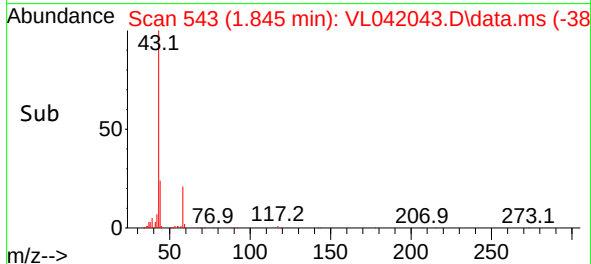
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



Tgt Ion: 43 Resp: 1546
Ion Ratio Lower Upper
43 100
58 27.1 20.7 31.1

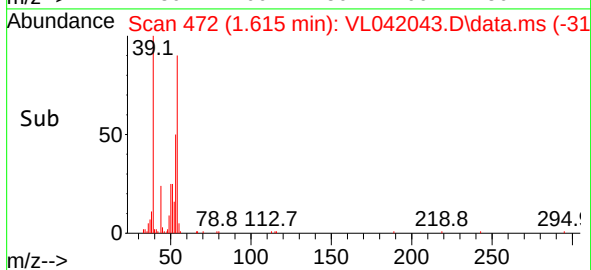
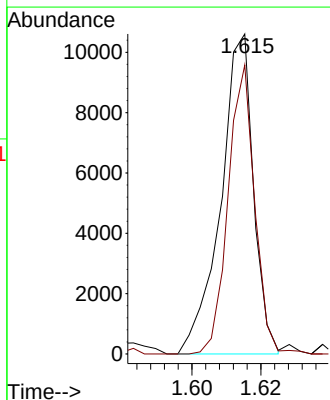
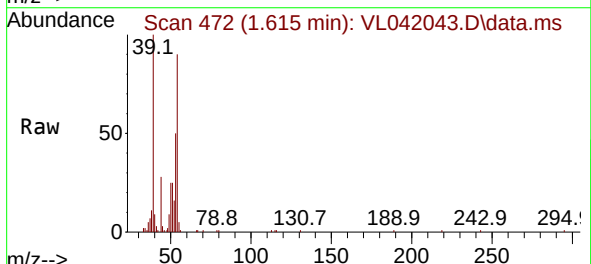
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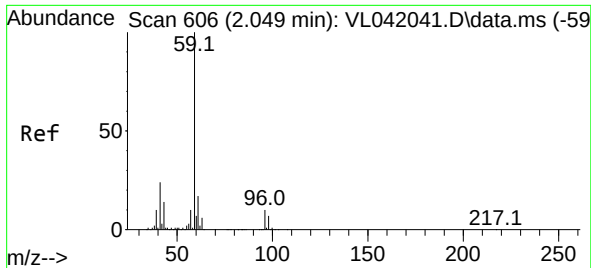
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#16
1,3-Butadiene
Concen: 0.556 ppbv
RT: 1.615 min Scan# 472
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 39 Resp: 7010
Ion Ratio Lower Upper
39 100
54 74.0 59.6 89.4





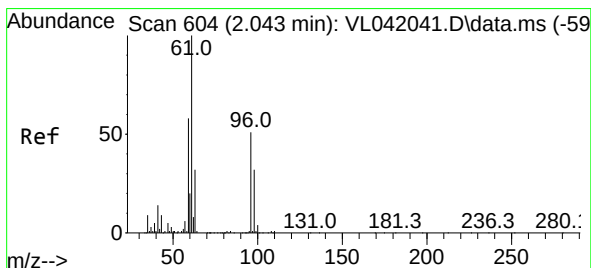
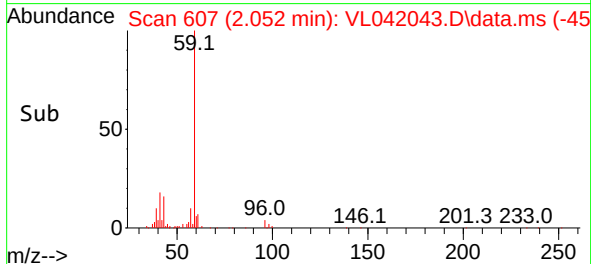
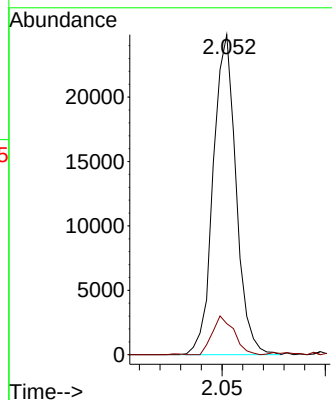
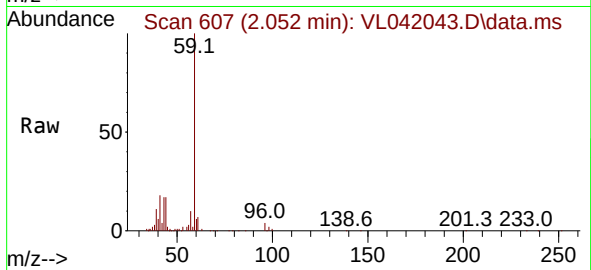
#17
tert-Butyl alcohol
Concen: 0.580 ppbv
RT: 2.052 min Scan# 607
Delta R.T. 0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 59 Resp: 19092
Ion Ratio Lower Upper
59 100
57 12.6 9.3 13.9

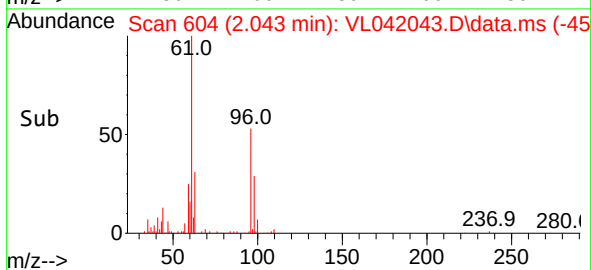
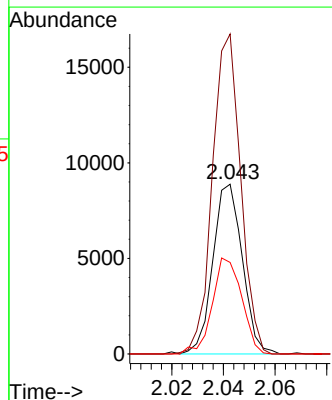
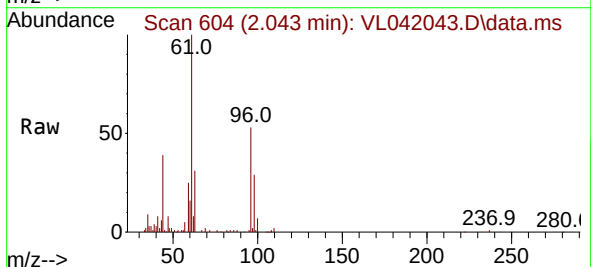
Manual Integrations
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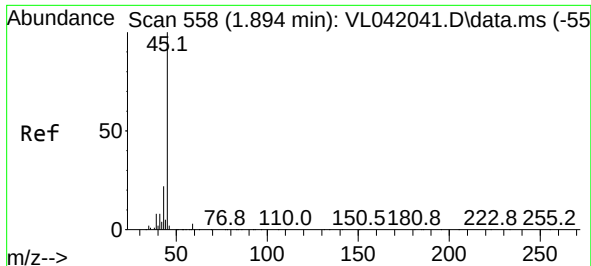
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#18
1,1-Dichloroethene
Concen: 0.677 ppbv
RT: 2.043 min Scan# 604
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

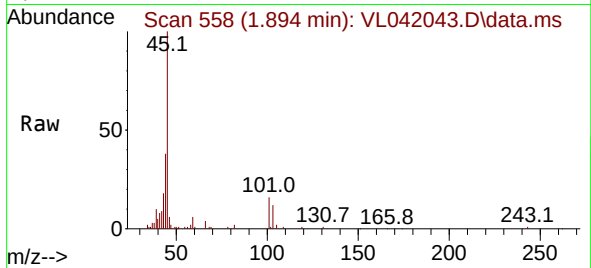
Tgt Ion: 96 Resp: 7042
Ion Ratio Lower Upper
96 100
61 188.5 156.0 234.0
98 53.9 49.4 74.2





#19
Isopropyl Alcohol
Concen: 0.616 ppbv
RT: 1.894 min Scan# 558
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

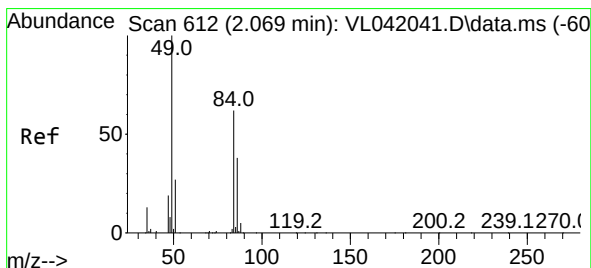
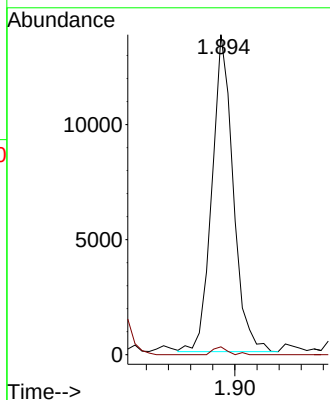
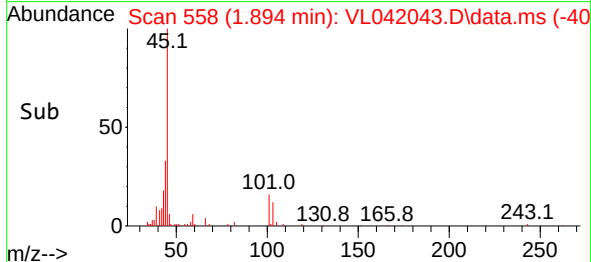
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



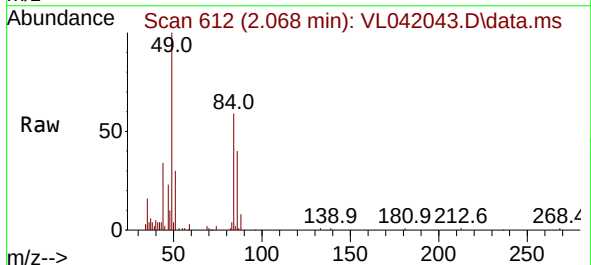
Tgt Ion: 45 Resp: 919
Ion Ratio Lower Upper
45 100
58 0.0 35.3 52.9

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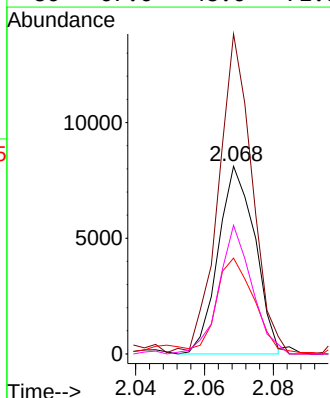
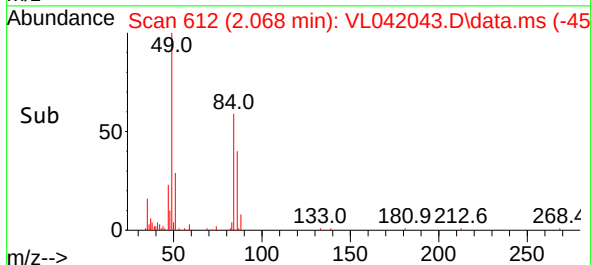
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

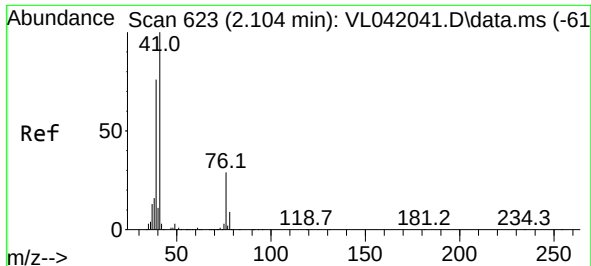


#20
Methylene Chloride
Concen: 0.602 ppbv
RT: 2.068 min Scan# 612
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00



Tgt Ion: 84 Resp: 6026
Ion Ratio Lower Upper
84 100
49 167.5 130.0 195.0
51 48.3 37.4 56.0
86 67.6 48.6 72.8





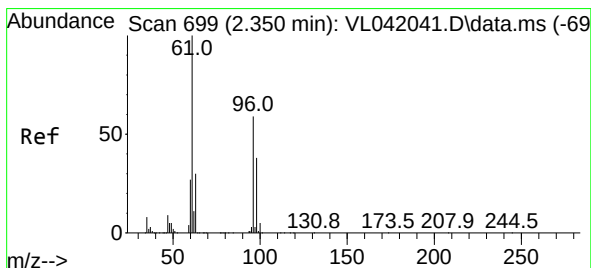
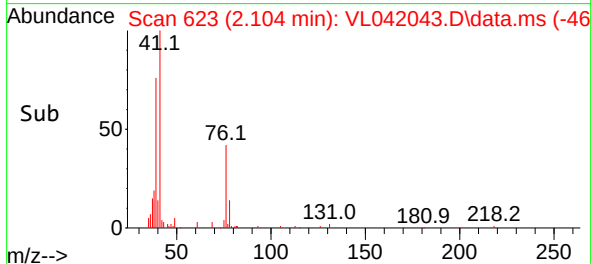
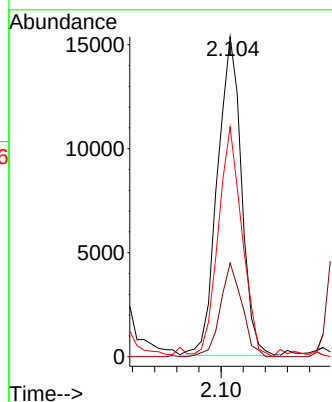
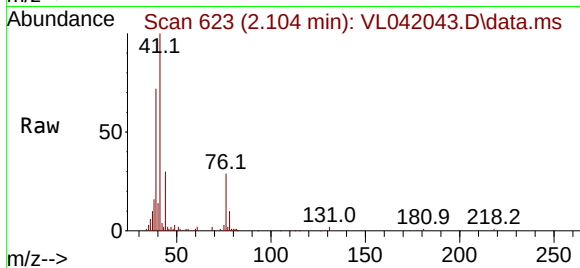
#21
 Allyl Chloride
 Concen: 0.600 ppbv
 RT: 2.104 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: VL042043.D
 Acq: 25 Feb 2025 10:00

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tgt Ion: 41 Resp: 11550
 Ion Ratio Lower Upper
 41 100
 76 26.6 23.8 35.6
 39 75.1 63.8 95.6

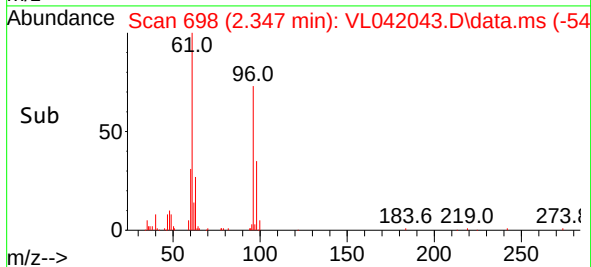
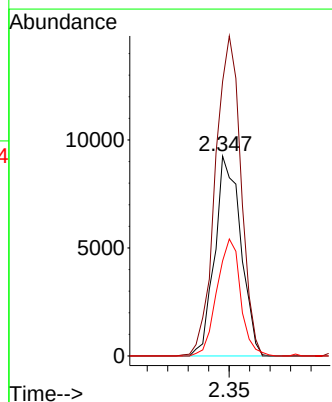
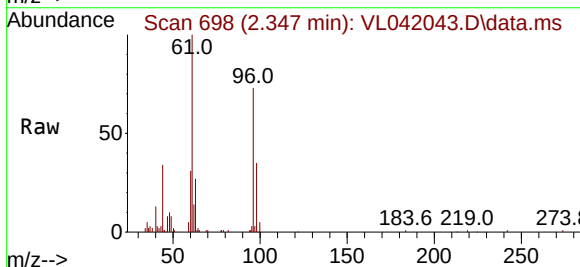
Manual Integrations
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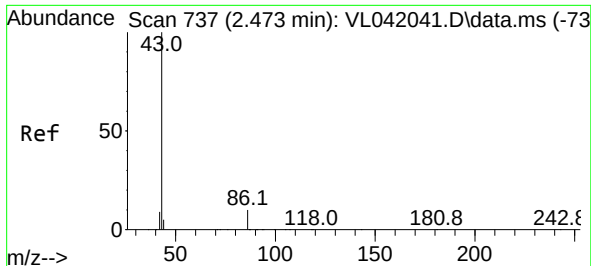
Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025



#22
 trans-1,2-Dichloroethene
 Concen: 0.722 ppbv m
 RT: 2.347 min Scan# 698
 Delta R.T. -0.003 min
 Lab File: VL042043.D
 Acq: 25 Feb 2025 10:00

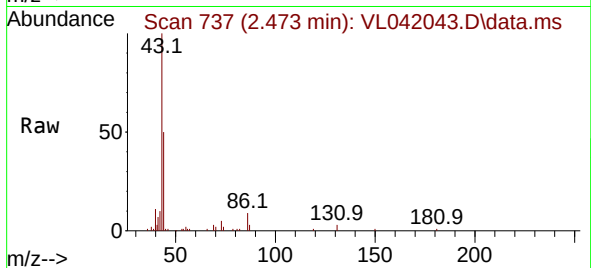
Tgt Ion: 96 Resp: 8145
 Ion Ratio Lower Upper
 96 100
 61 137.3 136.6 205.0
 98 47.5 51.8 77.6#





#23
 Vinyl Acetate
 Concen: 0.687 ppbv
 RT: 2.473 min Scan# 737
 Delta R.T. -0.000 min
 Lab File: VL042043.D
 Acq: 25 Feb 2025 10:00

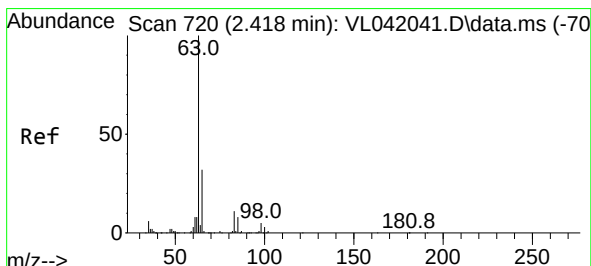
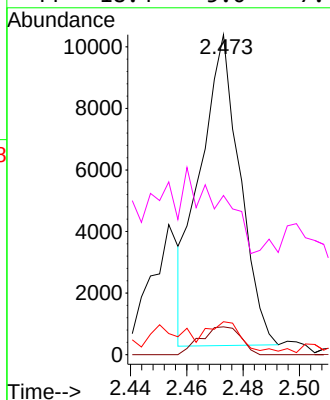
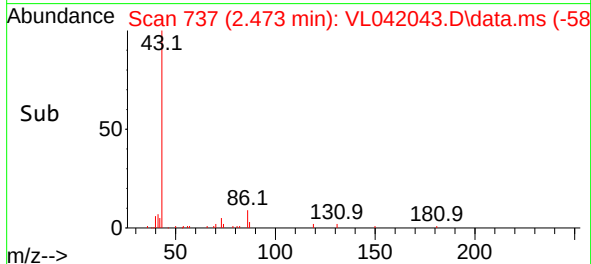
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



Tgt Ion: 43 Resp: 989
 Ion Ratio Lower Upper
 43 100
 86 9.0 7.0 10.4
 42 9.5 7.6 11.4
 44 18.4 5.0 7.4#

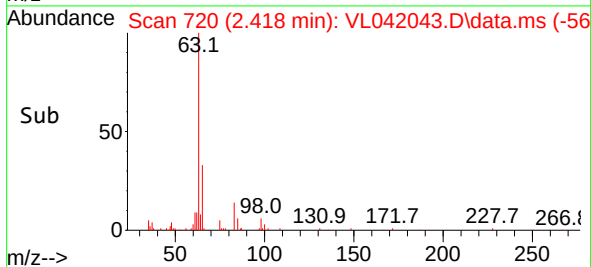
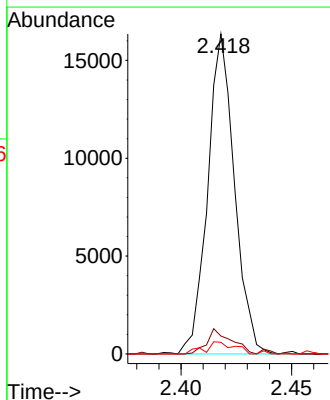
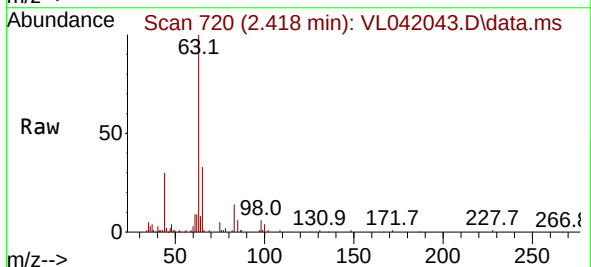
Manual Integrations
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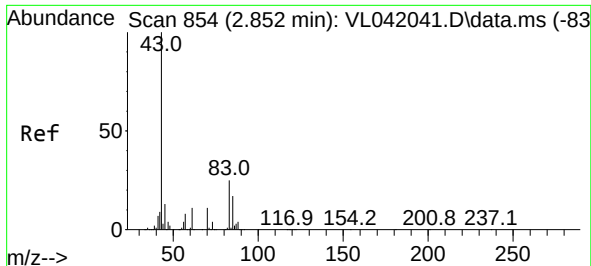
Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025



#24
 1,1-Dichloroethane
 Concen: 0.601 ppbv
 RT: 2.418 min Scan# 720
 Delta R.T. -0.000 min
 Lab File: VL042043.D
 Acq: 25 Feb 2025 10:00

Tgt Ion: 63 Resp: 13783
 Ion Ratio Lower Upper
 63 100
 98 5.6 2.4 7.2
 100 3.6 1.7 5.0





#25
Ethyl Acetate
Concen: 0.811 ppbv
RT: 2.852 min Scan# 811
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

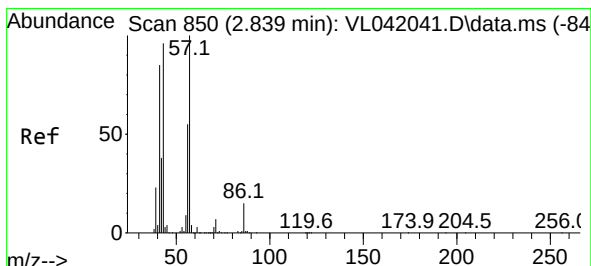
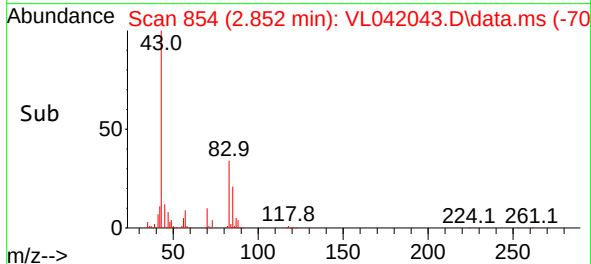
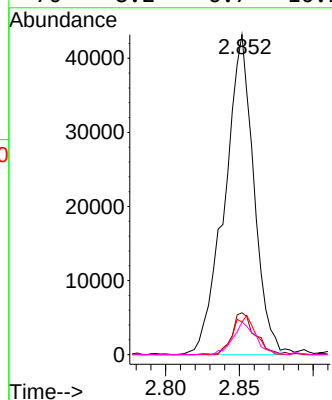
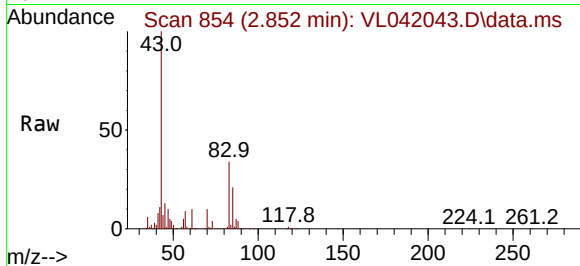
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 43 Resp: 5918

Ion	Ratio	Lower	Upper
43	100		
45	10.6	8.1	12.1
61	9.7	7.2	10.8
70	8.2	6.7	10.1

Manual Integrations
APPROVED

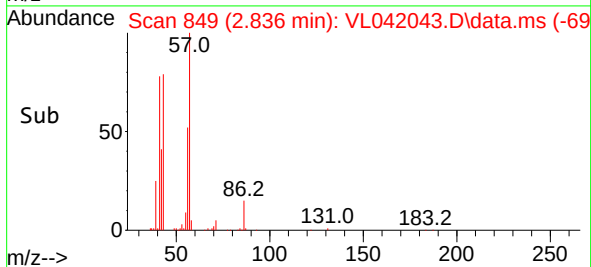
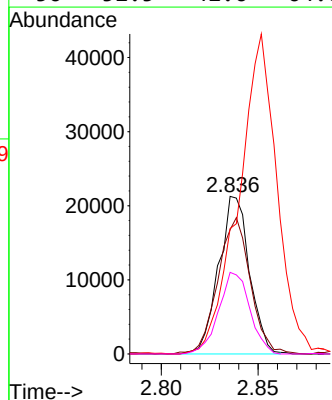
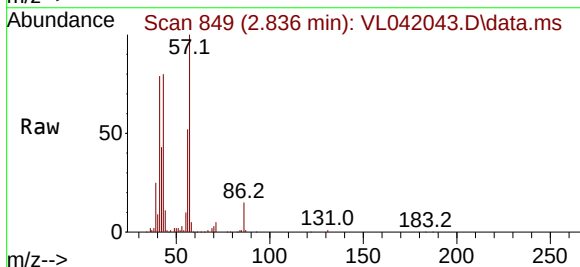
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

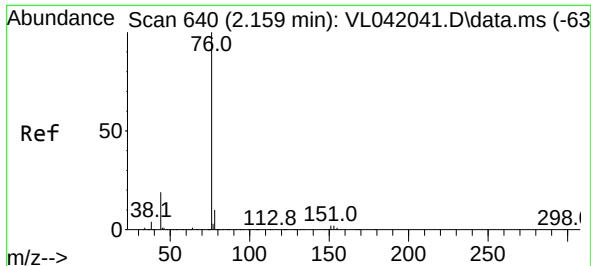


#26
Hexane
Concen: 0.804 ppbv
RT: 2.836 min Scan# 849
Delta R.T. -0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 57 Resp: 23549

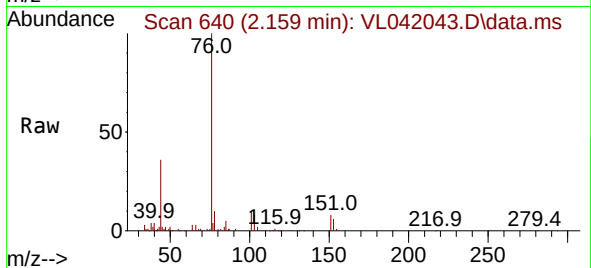
Ion	Ratio	Lower	Upper
57	100		
41	92.1	70.6	106.0
43	256.7	199.4	299.0
56	52.5	42.6	64.0





#27
Carbon Disulfide
Concen: 0.568 ppbv
RT: 2.159 min Scan# 640
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

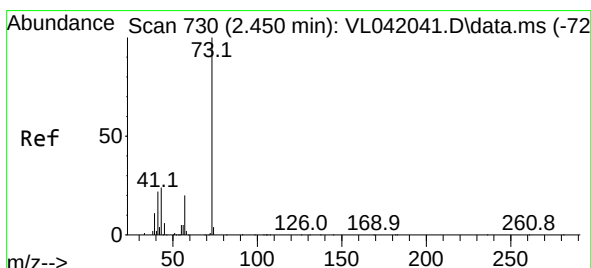
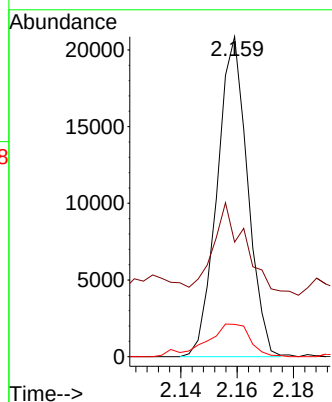
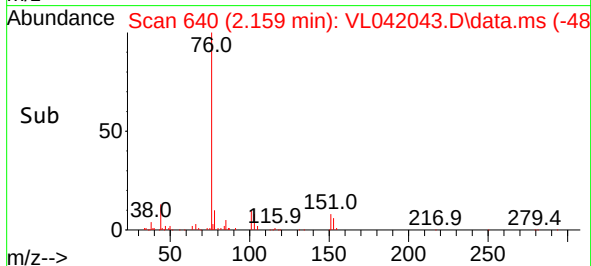
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



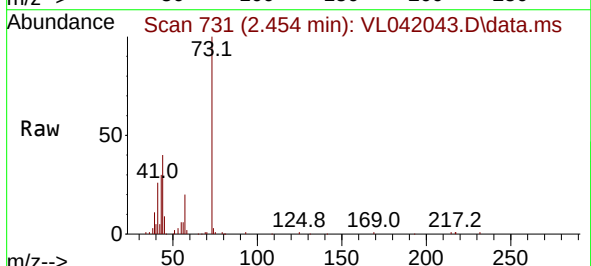
Tgt Ion: 76 Resp: 15659
Ion Ratio Lower Upper
76 100
44 57.5 16.2 24.2
78 14.7 9.4 14.0

Manual Integrations
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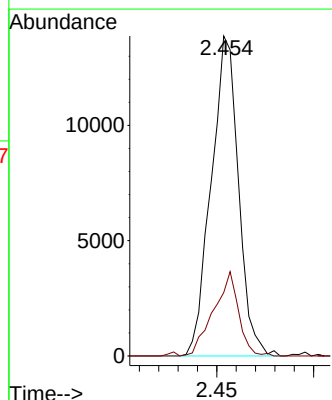
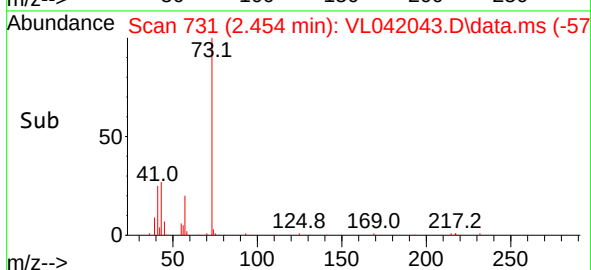
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

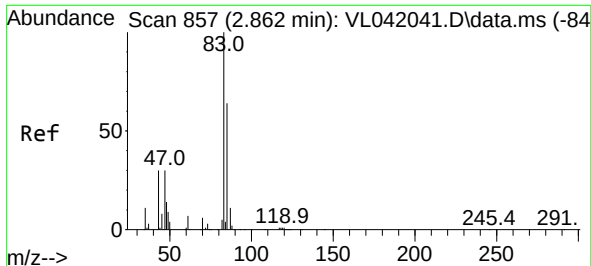


#28
Methyl tert-Butyl Ether
Concen: 0.759 ppbv
RT: 2.454 min Scan# 731
Delta R.T. 0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00



Tgt Ion: 73 Resp: 13593
Ion Ratio Lower Upper
73 100
57 24.5 17.7 26.5





#29

Chloroform

Concen: 0.776 ppbv

RT: 2.861 min Scan# 857

Delta R.T. -0.000 min

Lab File: VL042043.D

Acq: 25 Feb 2025 10:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion: 83 Resp: 3292

Ion Ratio Lower Upper

83 100

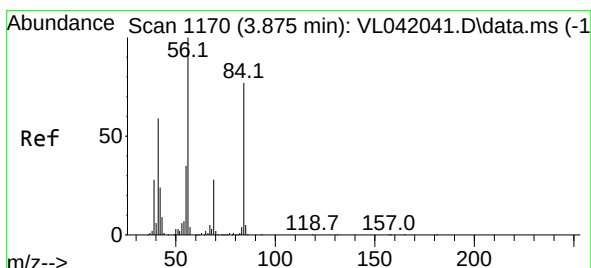
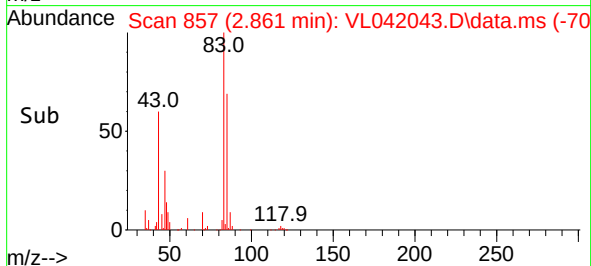
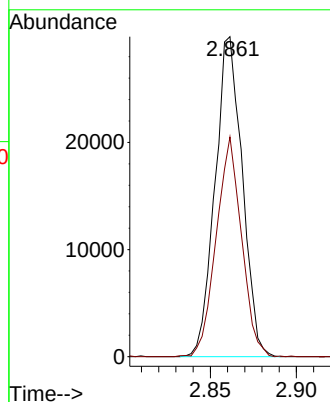
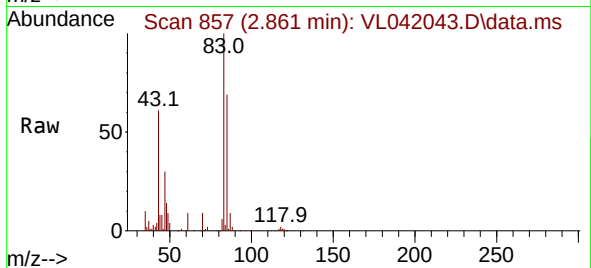
85 68.5 51.2 76.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 02/26/2025

Supervised By :Mahesh Dadoda 02/26/2025



#30

Cyclohexane

Concen: 0.840 ppbv

RT: 3.874 min Scan# 1170

Delta R.T. -0.000 min

Lab File: VL042043.D

Acq: 25 Feb 2025 10:00

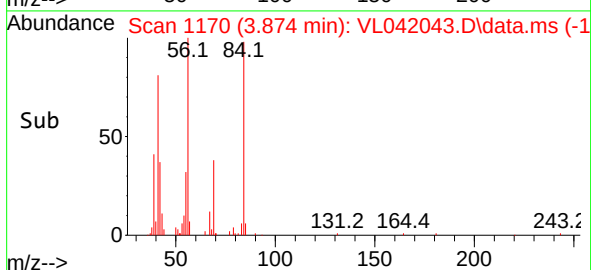
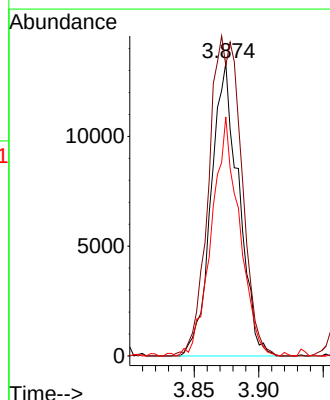
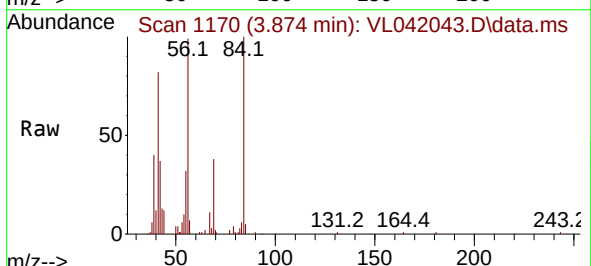
Tgt Ion: 84 Resp: 19953

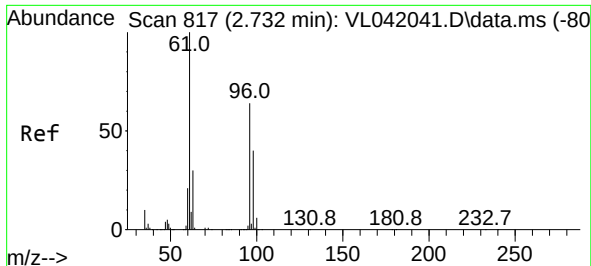
Ion Ratio Lower Upper

84 100

56 129.3 101.5 152.3

41 82.1 62.6 93.8





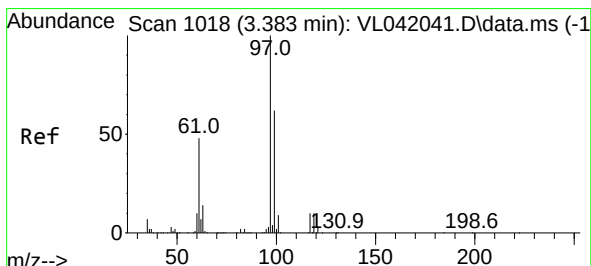
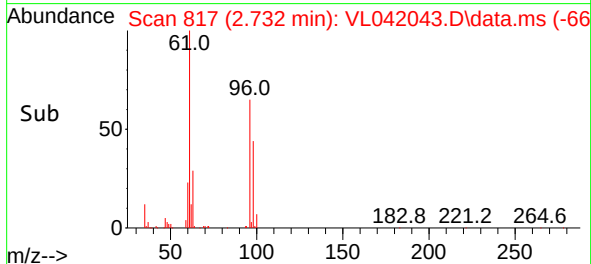
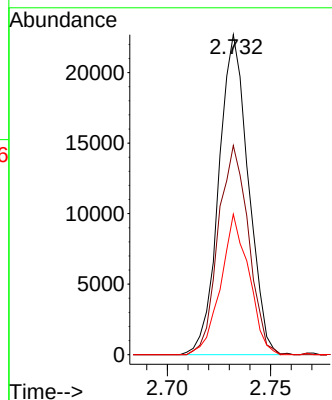
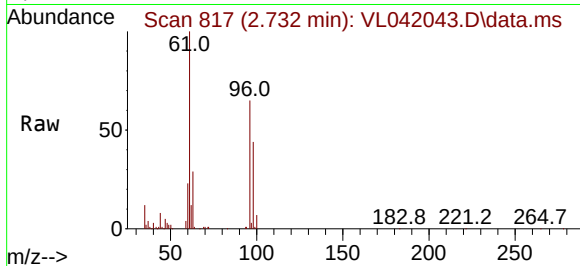
#31
 cis-1,2-Dichloroethene
 Concen: 0.780 ppbv
 RT: 2.732 min Scan# 817
 Delta R.T. -0.000 min
 Lab File: VL042043.D
 Acq: 25 Feb 2025 10:00

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tgt Ion: 61 Resp: 2256
 Ion Ratio Lower Upper
 61 100
 96 65.3 51.5 77.3
 98 43.9 32.0 48.0

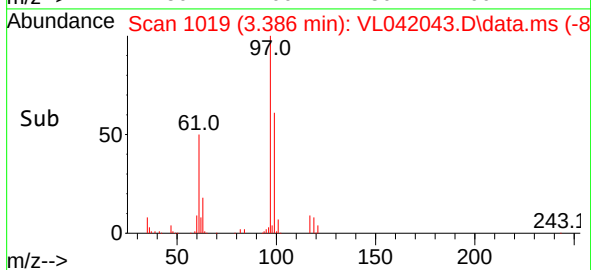
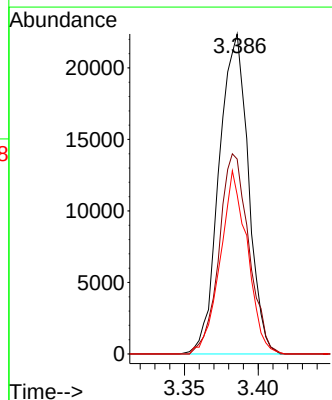
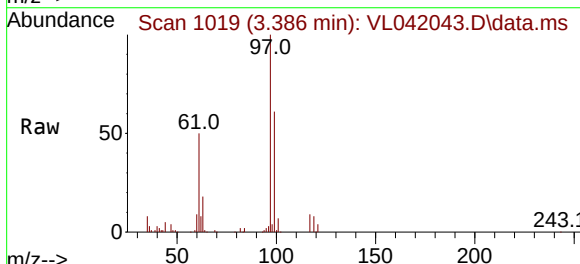
Manual Integrations
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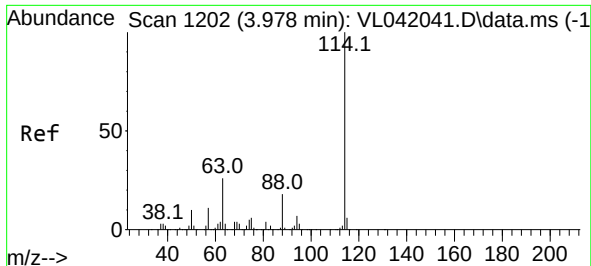
Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025



#32
 1,1,1-Trichloroethane
 Concen: 0.656 ppbv
 RT: 3.386 min Scan# 1019
 Delta R.T. 0.003 min
 Lab File: VL042043.D
 Acq: 25 Feb 2025 10:00

Tgt Ion: 97 Resp: 30870
 Ion Ratio Lower Upper
 97 100
 99 63.6 49.8 74.6
 61 53.1 38.9 58.3





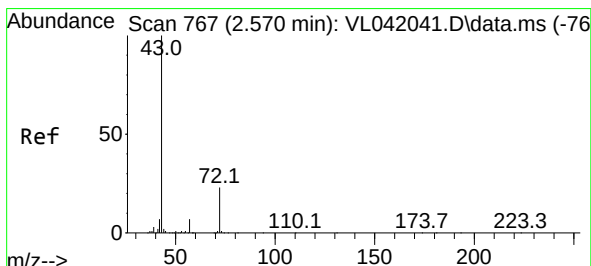
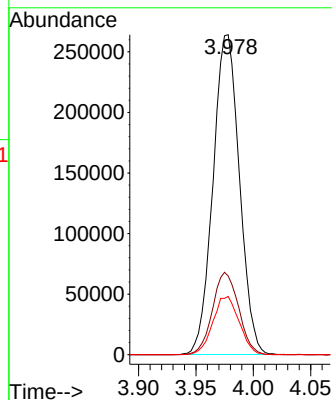
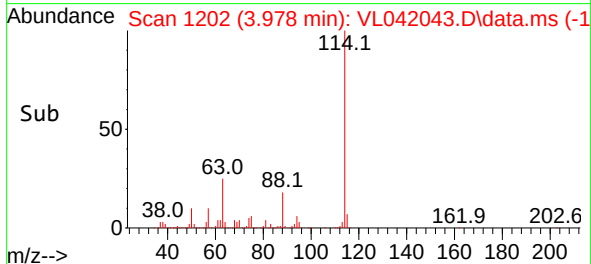
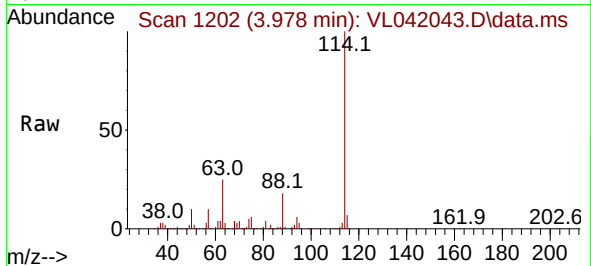
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.978 min Scan# 114
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion:114 Resp: 42336
Ion Ratio Lower Upper
114 100
63 25.5 20.1 30.1
88 18.2 14.3 21.5

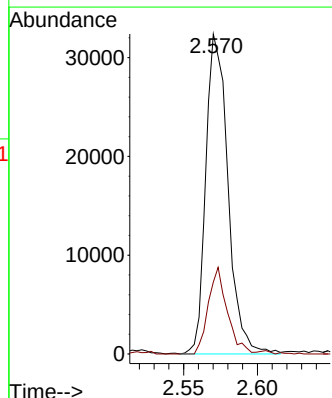
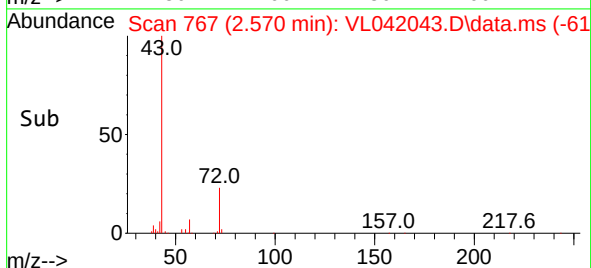
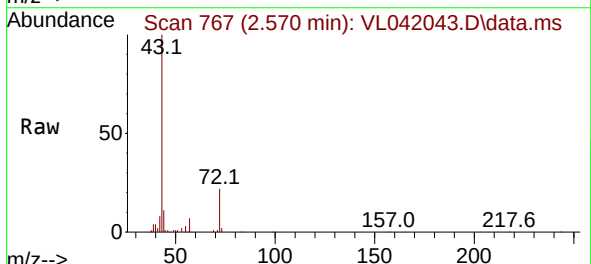
Manual Integrations
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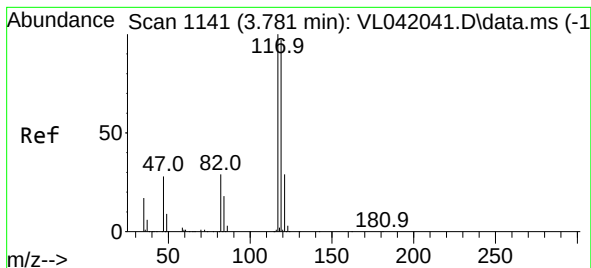
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#34
2-Butanone
Concen: 0.929 ppbv
RT: 2.570 min Scan# 767
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 43 Resp: 33820
Ion Ratio Lower Upper
43 100
72 23.8 18.5 27.7





#35

Carbon Tetrachloride

Concen: 0.745 ppbv

RT: 3.777 min Scan# 1141

Delta R.T. -0.003 min

Lab File: VL042043.D

Acq: 25 Feb 2025 10:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC001

Tgt Ion:117 Resp: 30618

Ion Ratio Lower Upper

117 100

119 108.5 77.8 116.8

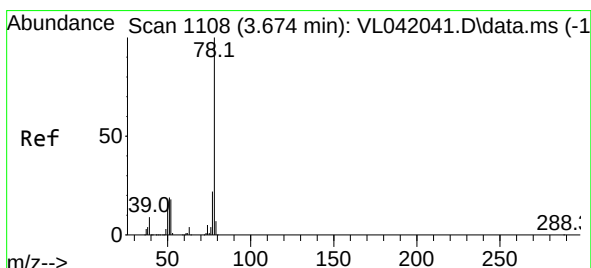
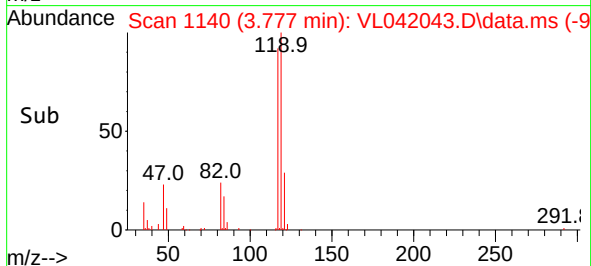
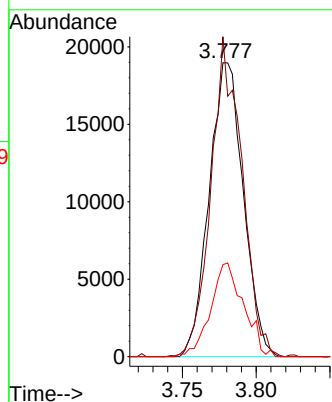
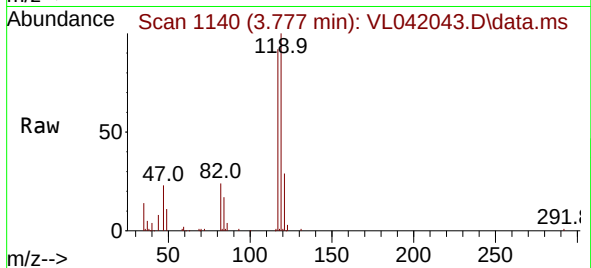
121 31.3 23.4 35.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 02/26/2025

Supervised By :Mahesh Dadoda 02/26/2025



#36

Benzene

Concen: 0.895 ppbv

RT: 3.674 min Scan# 1108

Delta R.T. -0.000 min

Lab File: VL042043.D

Acq: 25 Feb 2025 10:00

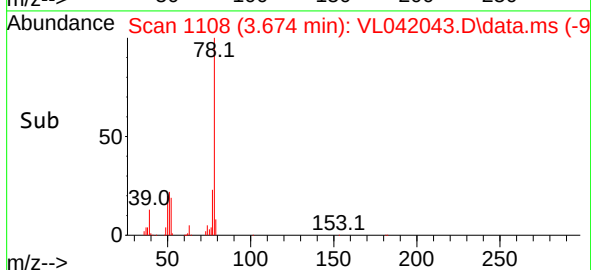
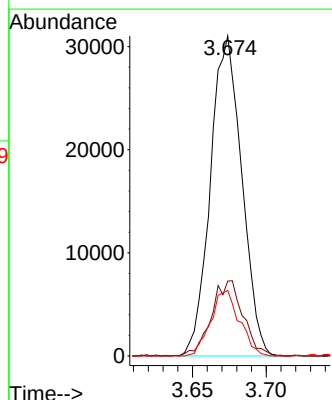
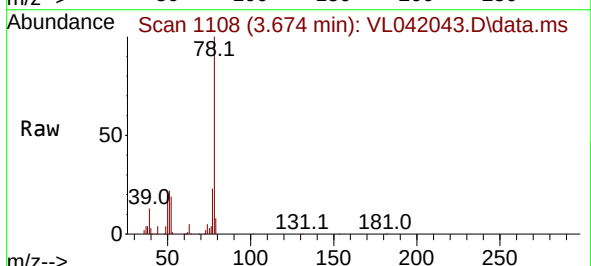
Tgt Ion: 78 Resp: 45892

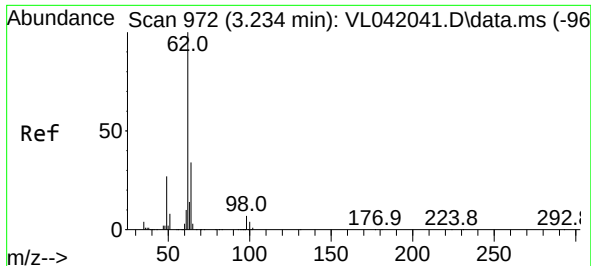
Ion Ratio Lower Upper

78 100

77 23.2 17.7 26.5

50 20.5 13.9 20.9





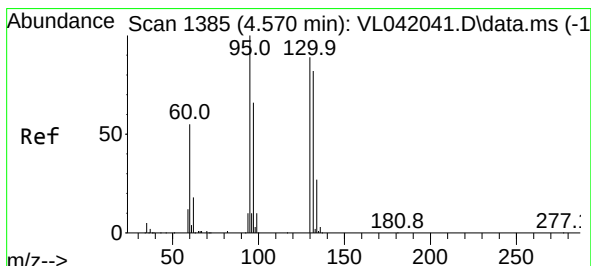
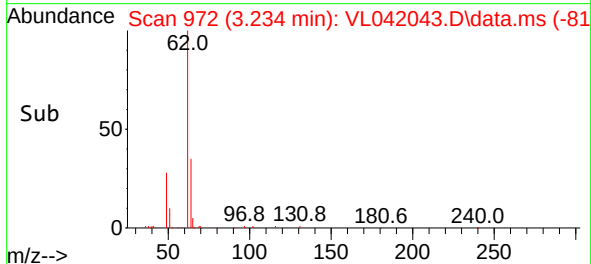
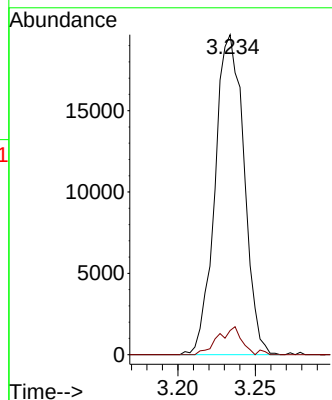
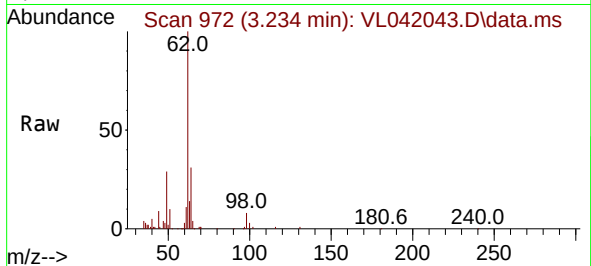
#37
1,2-Dichloroethane
Concen: 0.876 ppbv
RT: 3.234 min Scan# 91
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 62 Resp: 2558
Ion Ratio Lower Upper
62 100
98 7.4 5.7 8.5

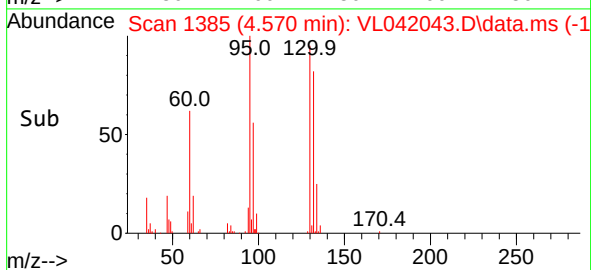
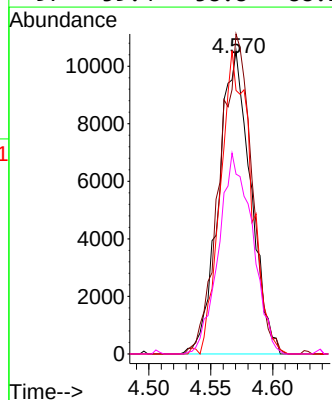
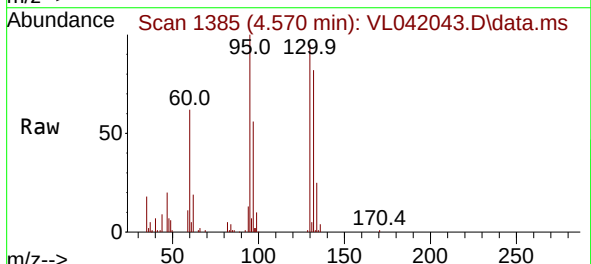
Manual Integrations
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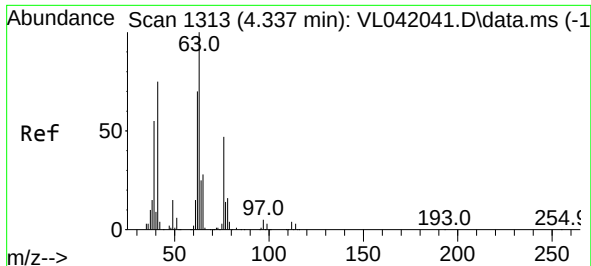
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#38
Trichloroethene
Concen: 0.908 ppbv
RT: 4.570 min Scan# 1385
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion:130 Resp: 18921
Ion Ratio Lower Upper
130 100
95 105.7 89.5 134.3
132 87.0 73.8 110.6
97 59.4 58.8 88.2





#39

1,2-Dichloropropane

Concen: 0.934 ppbv

RT: 4.334 min Scan# 11

Delta R.T. -0.003 min

Lab File: VL042043.D

Acq: 25 Feb 2025 10:00

Instrument :

MSVOA_L

ClientSampleId :

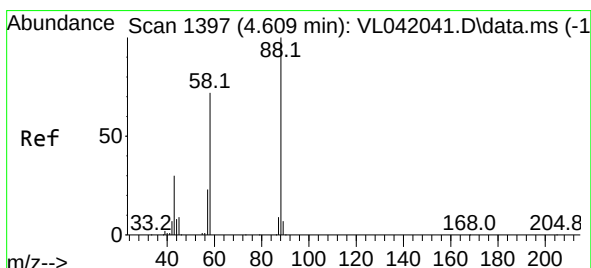
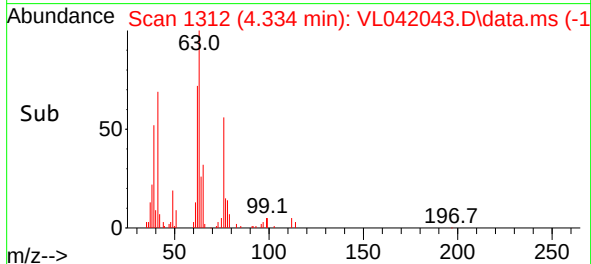
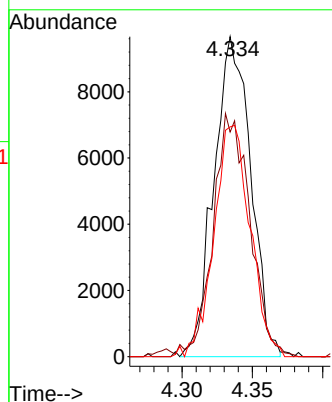
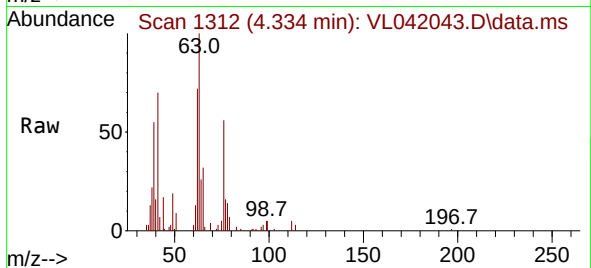
VSTDICC001

Tgt Ion: 63	Resp: 1755
Ion Ratio	Lower Upper
63 100	
41 67.2	60.1 90.1
62 68.5	55.8 83.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#40

1,4-Dioxane

Concen: 0.850 ppbv m

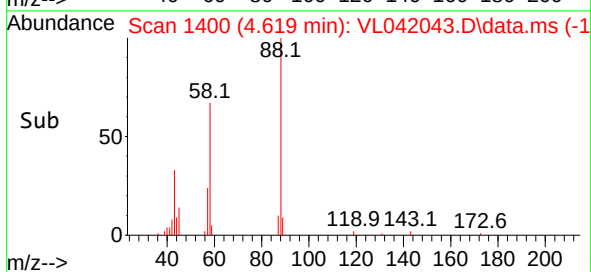
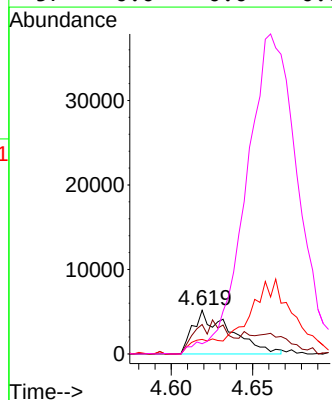
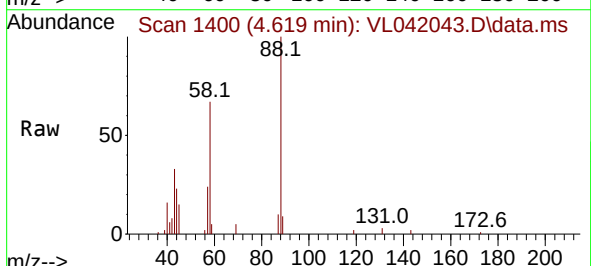
RT: 4.619 min Scan# 1400

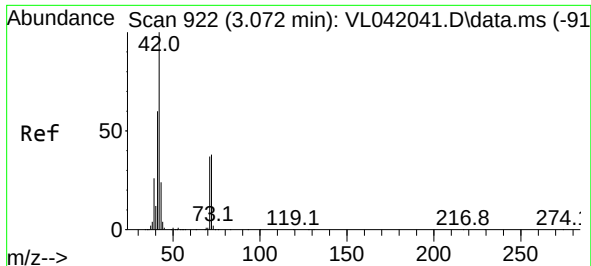
Delta R.T. 0.010 min

Lab File: VL042043.D

Acq: 25 Feb 2025 10:00

Tgt Ion: 88	Resp: 8319
Ion Ratio	Lower Upper
88 100	
58 123.2	62.6 94.0#
43 0.0	0.0 0.0
57 0.0	0.0 0.0





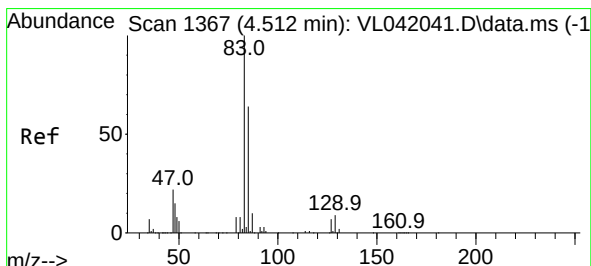
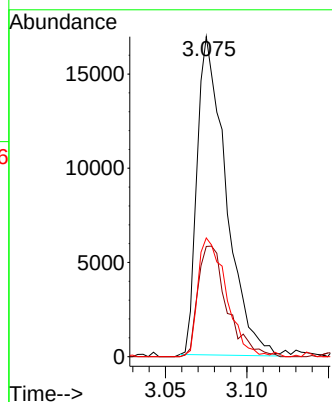
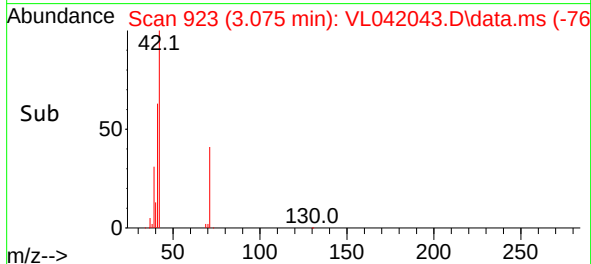
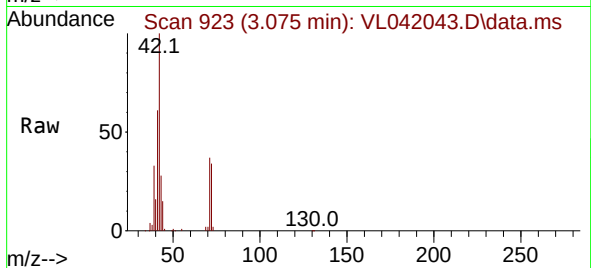
#41
Tetrahydrofuran
Concen: 1.000 ppbv
RT: 3.075 min Scan# 91
Delta R.T. 0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 42 Resp: 2082
Ion Ratio Lower Upper
42 100
72 35.0 30.2 45.2
71 37.3 28.2 42.4

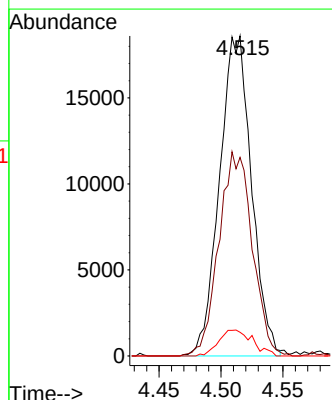
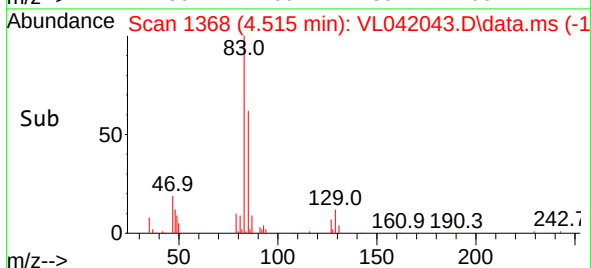
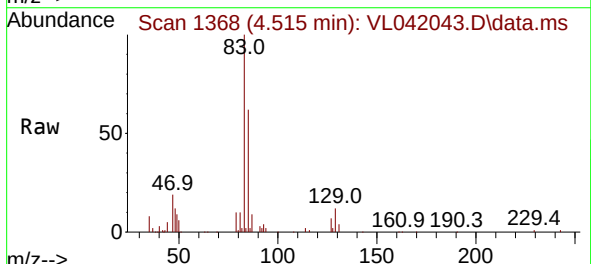
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APPROVED

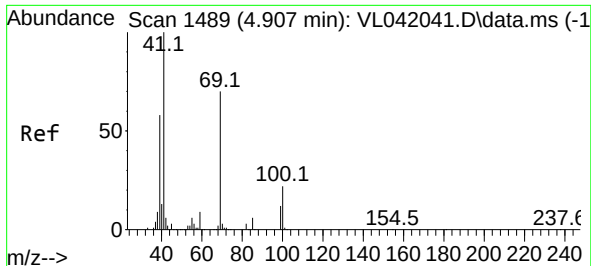
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#42
Bromodichloromethane
Concen: 0.847 ppbv
RT: 4.515 min Scan# 1368
Delta R.T. 0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

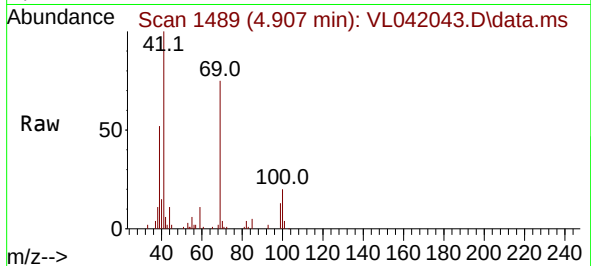
Tgt Ion: 83 Resp: 33481
Ion Ratio Lower Upper
83 100
85 62.1 51.4 77.2
127 7.4 5.8 8.6





#43
Methyl Methacrylate
Concen: 0.756 ppbv
RT: 4.907 min Scan# 1489
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

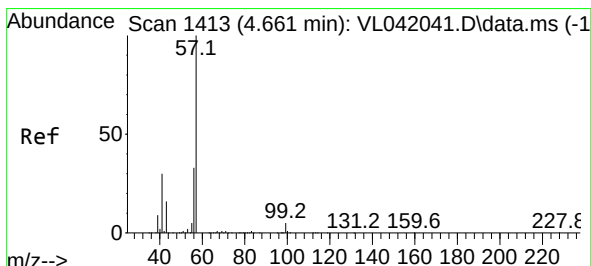
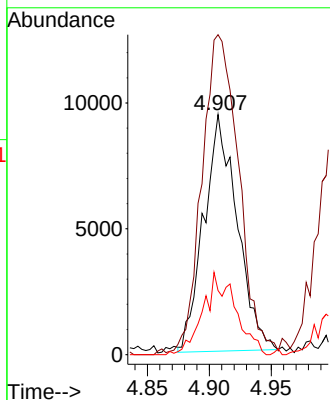
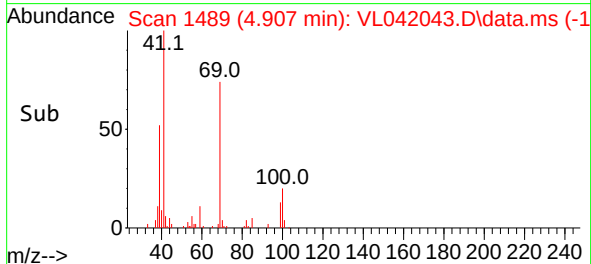
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



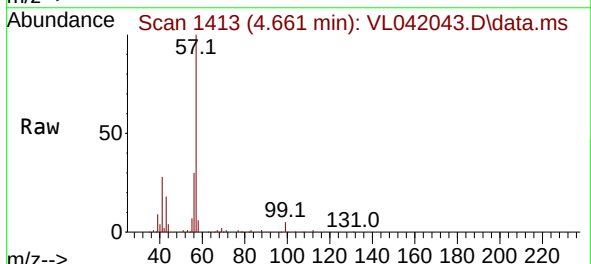
Tgt Ion: 69 Resp: 17679
Ion Ratio Lower Upper
69 100
41 148.9 118.2 177.4
100 34.0 27.0 40.4

Manual Integrations
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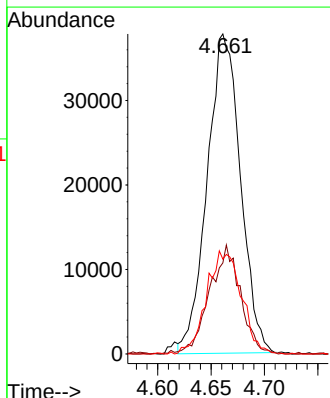
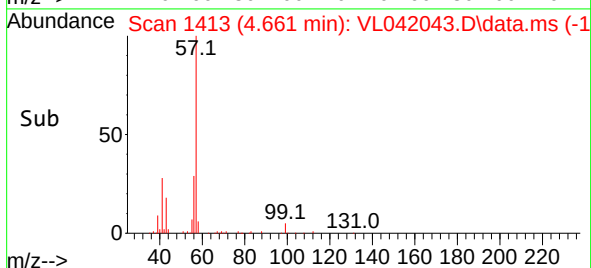
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

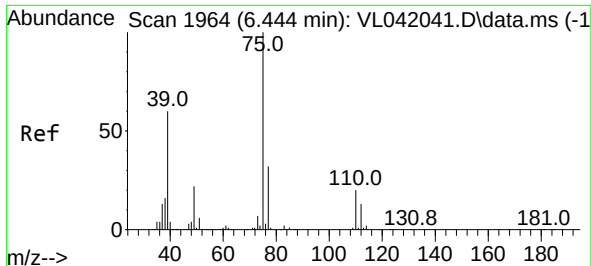


#44
2,2,4-Trimethylpentane
Concen: 0.941 ppbv
RT: 4.661 min Scan# 1413
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00



Tgt Ion: 57 Resp: 81921
Ion Ratio Lower Upper
57 100
41 31.8 24.4 36.6
56 33.7 26.5 39.7





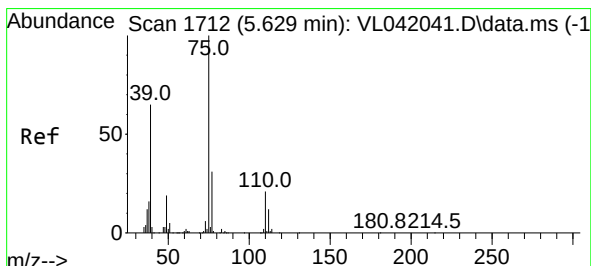
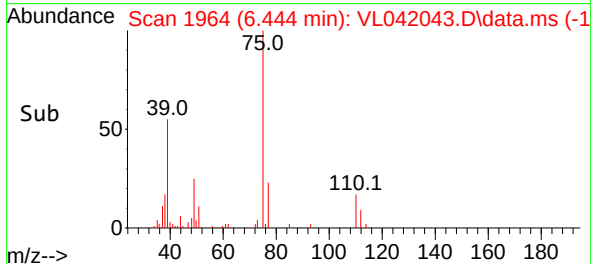
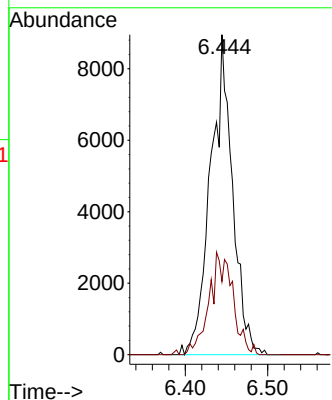
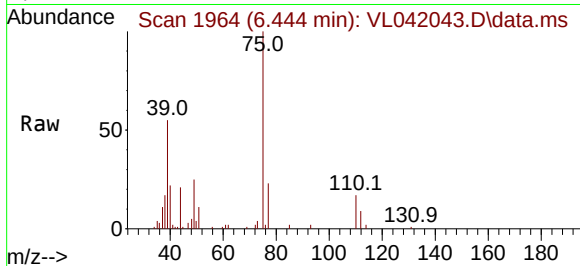
#45
 t-1,3-Dichloropropene
 Concen: 0.751 ppbv m
 RT: 6.444 min Scan# 1964
 Delta R.T. -0.000 min
 Lab File: VL042043.D
 Acq: 25 Feb 2025 10:00

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tgt Ion: 75 Resp: 16578
 Ion Ratio Lower Upper
 75 100
 77 22.9 25.9 38.9

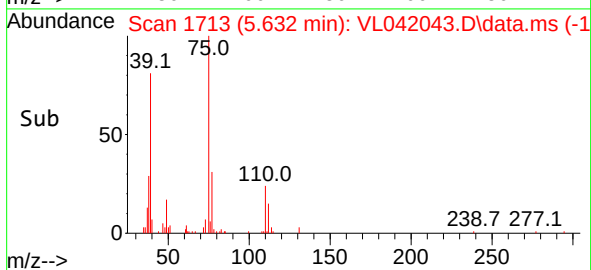
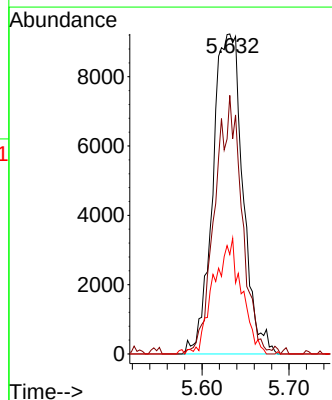
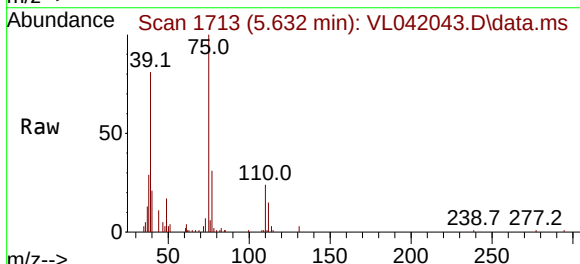
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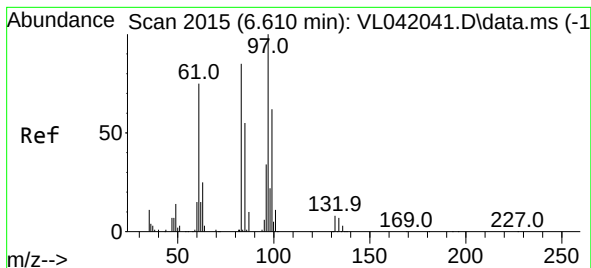
Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025



#46
 cis-1,3-Dichloropropene
 Concen: 0.790 ppbv m
 RT: 5.632 min Scan# 1713
 Delta R.T. 0.003 min
 Lab File: VL042043.D
 Acq: 25 Feb 2025 10:00

Tgt Ion: 75 Resp: 22127
 Ion Ratio Lower Upper
 75 100
 39 80.8 51.9 77.9#
 77 31.1 24.9 37.3





#47

1,1,2-Trichloroethane

Concen: 0.918 ppbv m

RT: 6.616 min Scan# 2015

Delta R.T. 0.006 min

Lab File: VL042043.D

Acq: 25 Feb 2025 10:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC001

Tgt Ion: 97 Resp: 1816

Ion Ratio Lower Upper

97 100

83 80.3 68.1 102.1

85 43.0 44.0 66.0

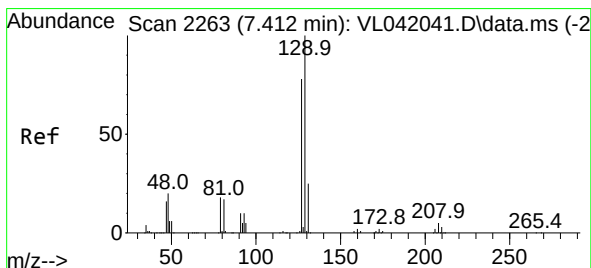
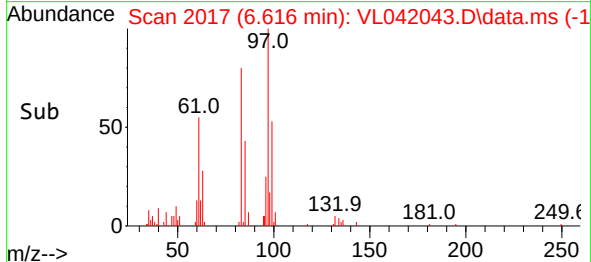
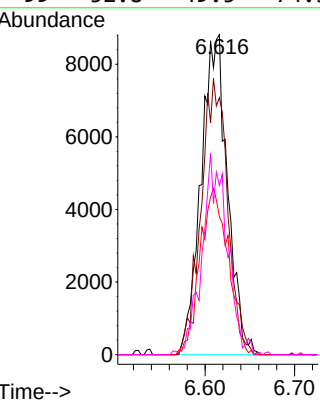
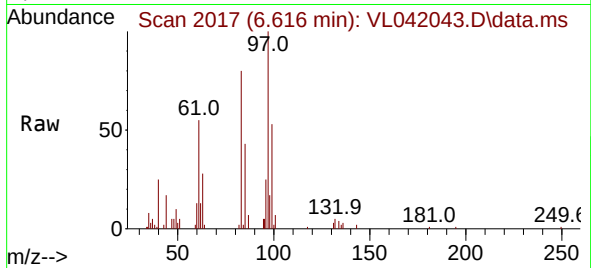
99 52.8 49.5 74.3

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 02/26/2025

Supervised By :Mahesh Dadoda 02/26/2025



#48

Dibromochloromethane

Concen: 0.852 ppbv

RT: 7.412 min Scan# 2263

Delta R.T. -0.000 min

Lab File: VL042043.D

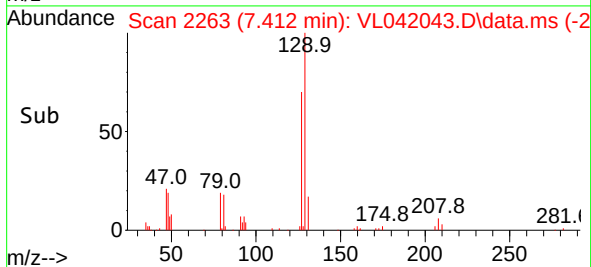
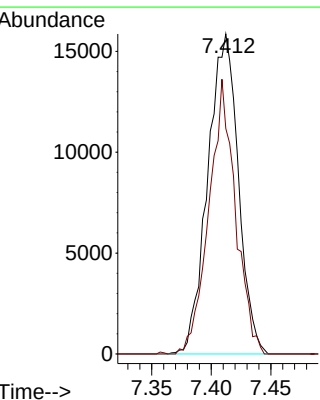
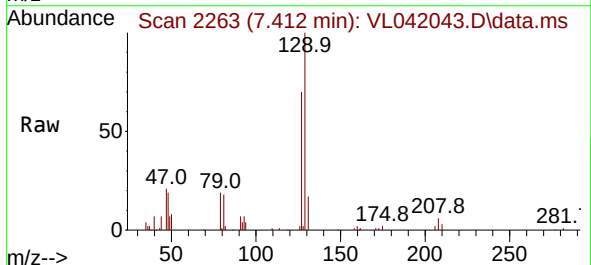
Acq: 25 Feb 2025 10:00

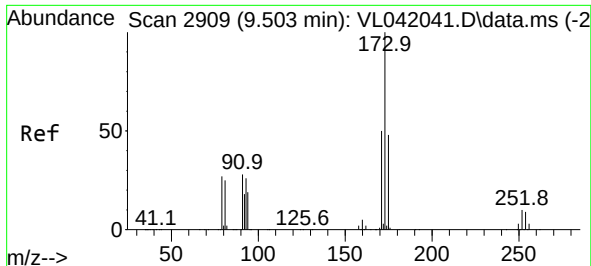
Tgt Ion:129 Resp: 28239

Ion Ratio Lower Upper

129 100

127 74.7 38.6 115.8





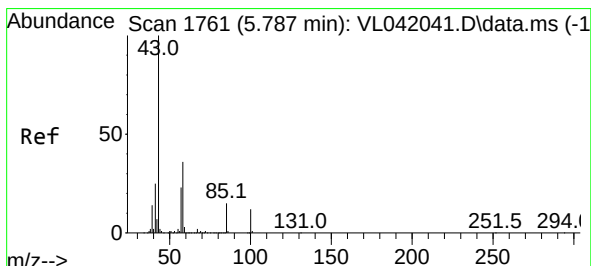
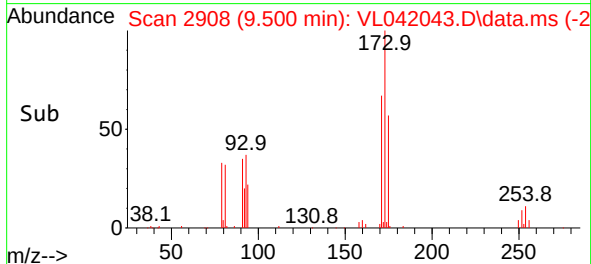
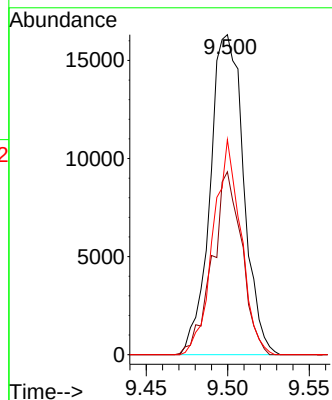
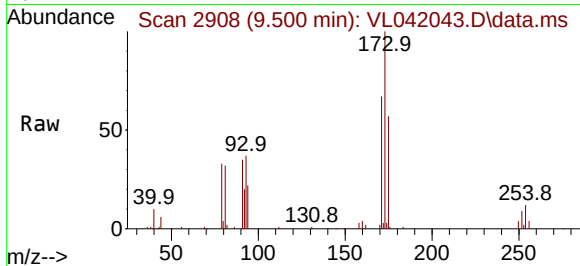
#49
Bromoform
Concen: 0.858 ppbv
RT: 9.500 min Scan# 2909
Delta R.T. -0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion:173 Resp: 23310
Ion Ratio Lower Upper
173 100
175 50.5 38.3 57.5
171 55.5 40.2 60.2

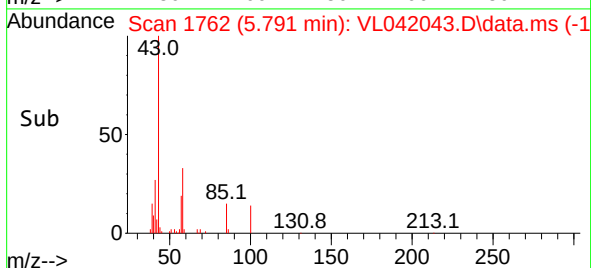
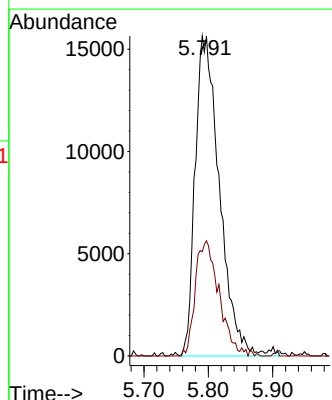
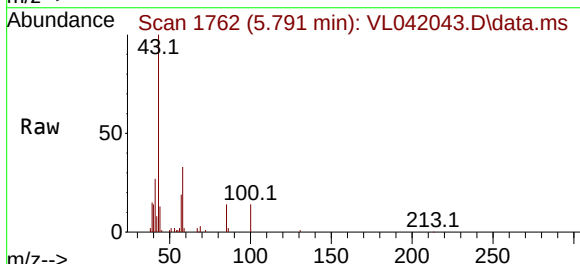
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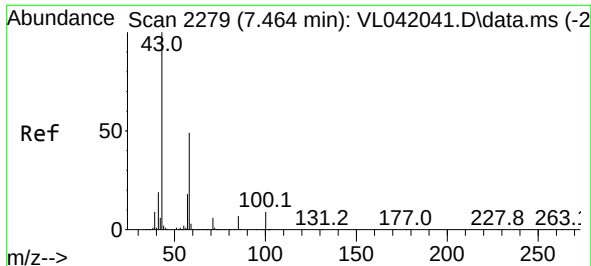
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#50
4-Methyl-2-Pentanone
Concen: 0.737 ppbv m
RT: 5.791 min Scan# 1762
Delta R.T. 0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 43 Resp: 41249
Ion Ratio Lower Upper
43 100
58 0.0 29.3 43.9#





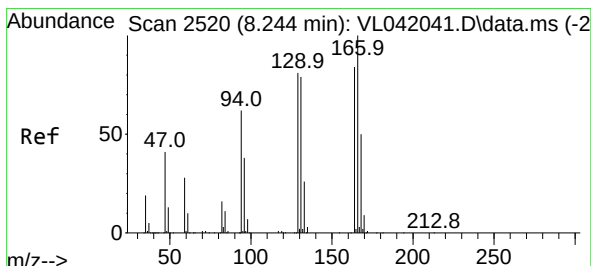
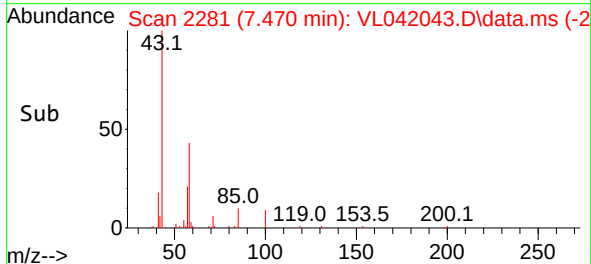
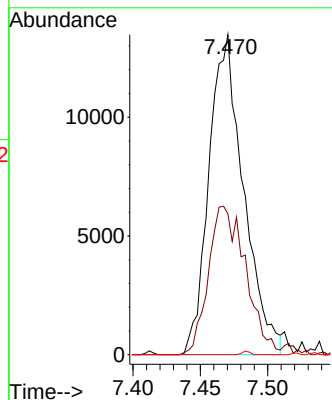
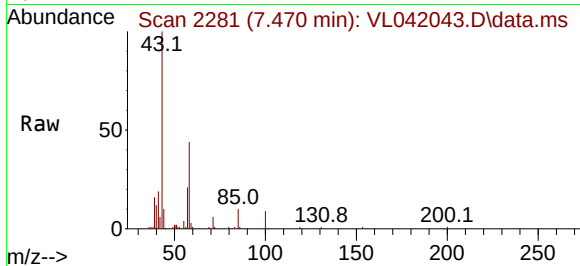
#51
2-Hexanone
Concen: 0.527 ppbv
RT: 7.470 min Scan# 2111
Delta R.T. 0.006 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 43 Resp: 2411
Ion Ratio Lower Upper
43 100
58 51.0 39.0 58.6
98 0.3 0.1 0.1

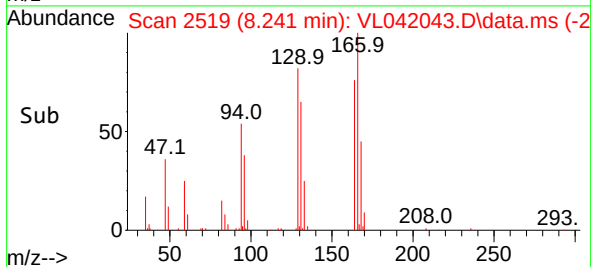
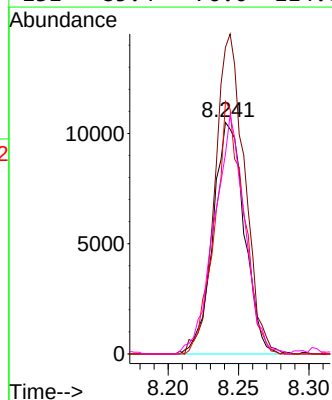
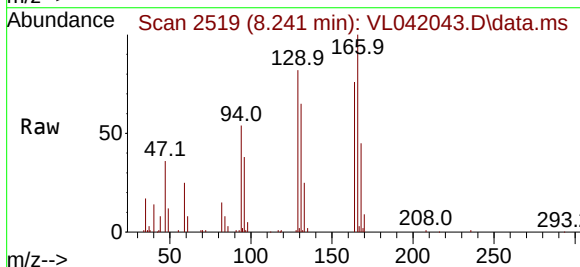
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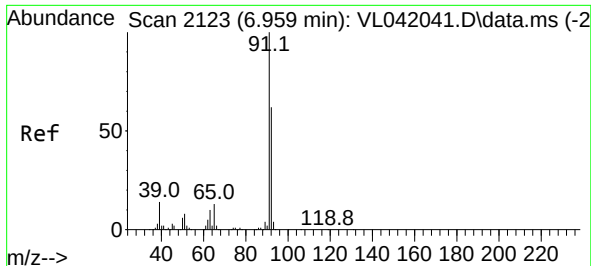
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#52
Tetrachloroethene
Concen: 0.907 ppbv
RT: 8.241 min Scan# 2519
Delta R.T. -0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion:164 Resp: 16217
Ion Ratio Lower Upper
164 100
166 131.2 95.7 143.5
129 109.1 77.1 115.7
131 85.4 76.0 114.0





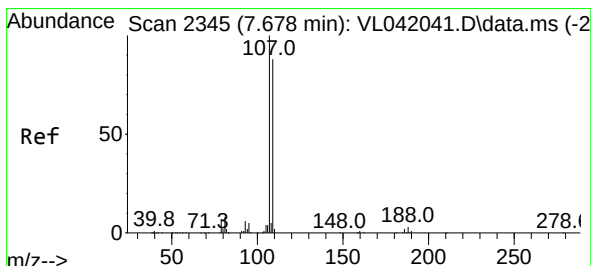
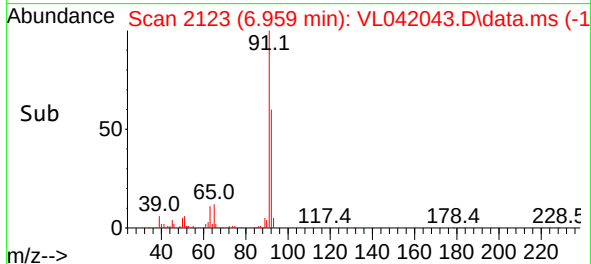
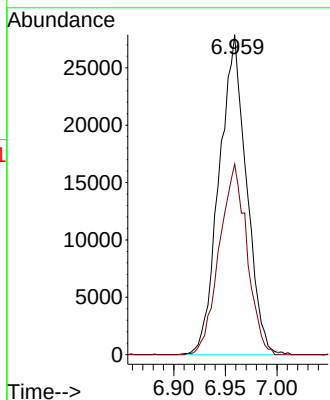
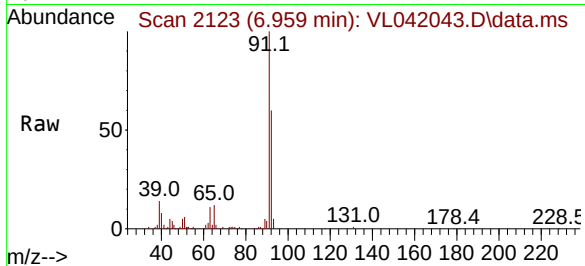
#53
Toluene
Concen: 0.838 ppbv
RT: 6.959 min Scan# 2123
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 91 Resp: 5123
Ion Ratio Lower Upper
91 100
92 60.3 49.0 73.6

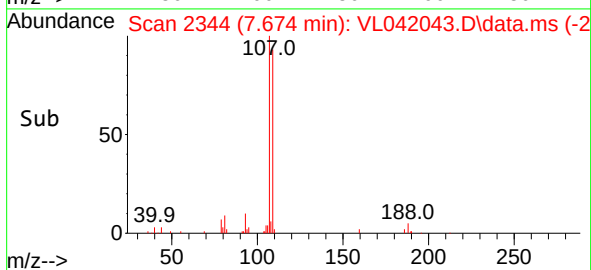
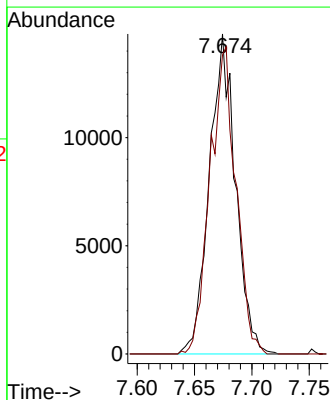
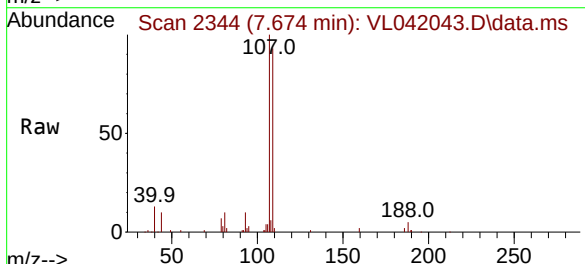
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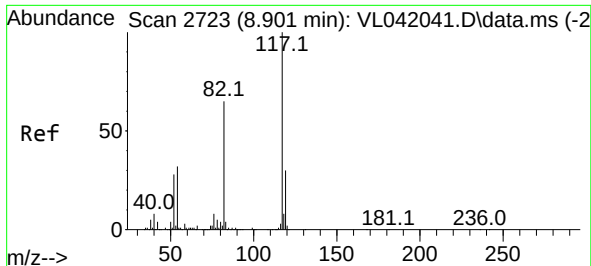
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#54
1,2-Dibromoethane
Concen: 0.860 ppbv
RT: 7.674 min Scan# 2344
Delta R.T. -0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion:107 Resp: 23427
Ion Ratio Lower Upper
107 100
109 93.5 70.2 105.4





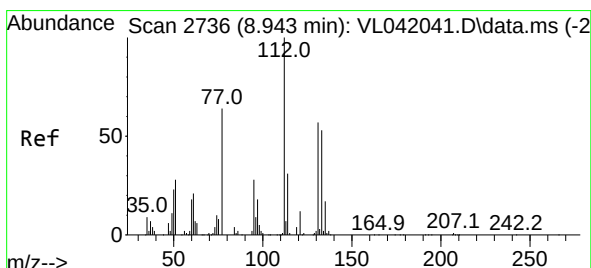
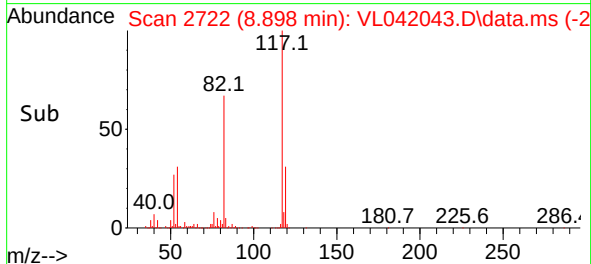
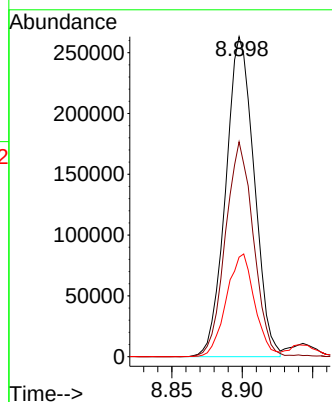
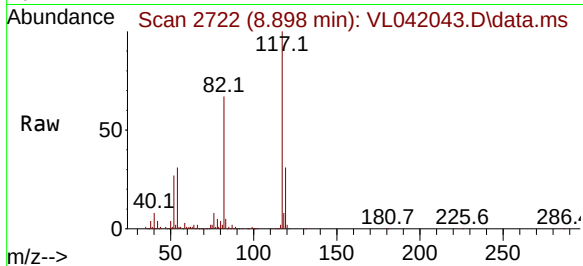
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.898 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion:117 Resp: 36991
Ion Ratio Lower Upper
117 100
82 66.5 55.0 82.6
119 32.5 25.9 38.9

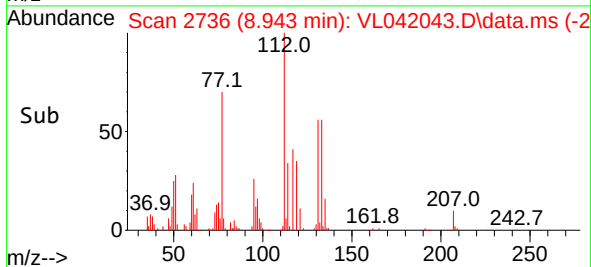
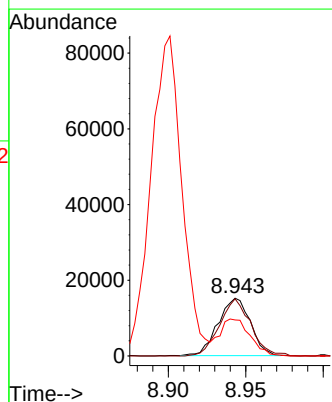
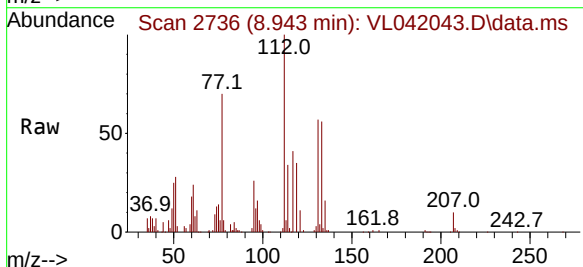
Manual Integrations
APPROVED

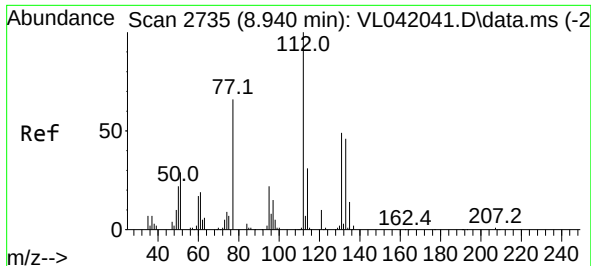
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#56
1,1,1,2-Tetrachloroethane
Concen: 0.833 ppbv
RT: 8.943 min Scan# 2736
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion:131 Resp: 22060
Ion Ratio Lower Upper
131 100
133 96.2 75.8 113.8
119 60.4 52.1 78.1





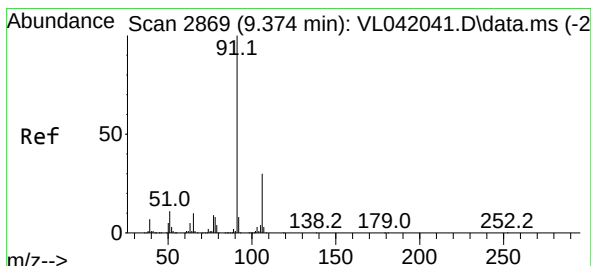
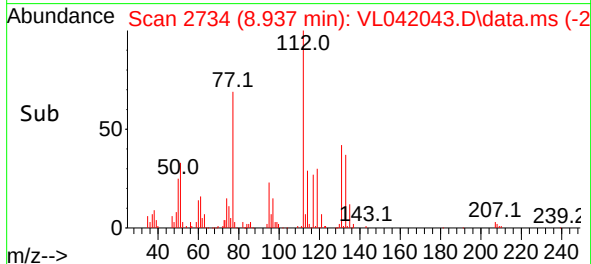
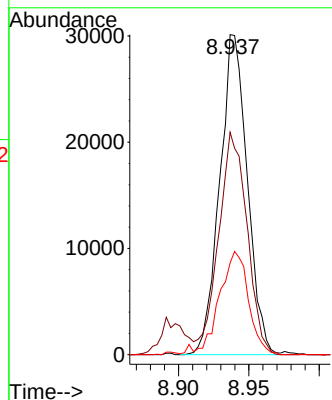
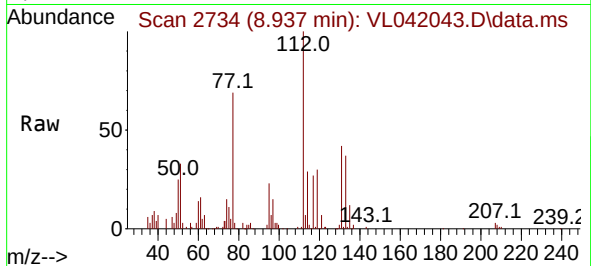
#57
Chlorobenzene
Concen: 0.946 ppbv
RT: 8.937 min Scan# 2117
Delta R.T. -0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 112 Resp: 4117
Ion Ratio Lower Upper
112 100
77 69.5 53.4 80.2
114 28.7 28.3 34.5

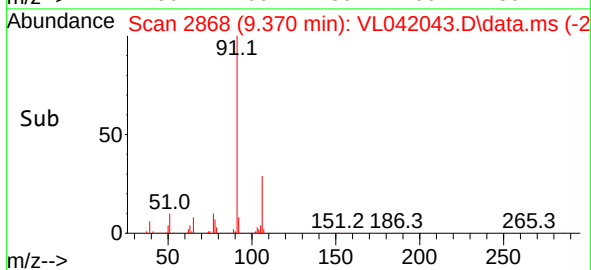
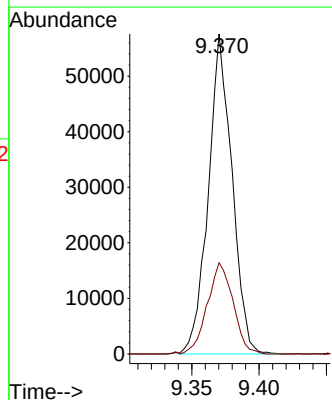
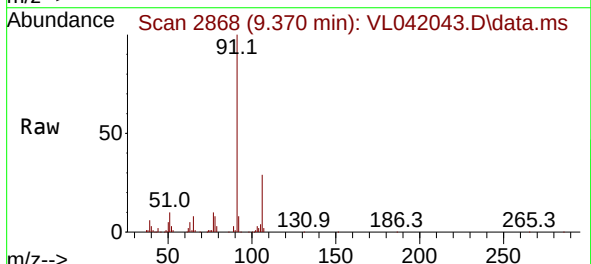
Manual Integrations
APPROVED

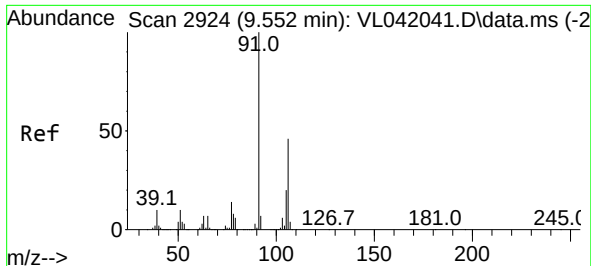
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#58
Ethyl Benzene
Concen: 0.871 ppbv
RT: 9.370 min Scan# 2868
Delta R.T. -0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 91 Resp: 70507
Ion Ratio Lower Upper
91 100
106 28.5 24.2 36.2





#59

m/p-Xylene

Concen: 1.799 ppbv m

RT: 9.568 min Scan# 2924

Delta R.T. 0.016 min

Lab File: VL042043.D

Acq: 25 Feb 2025 10:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion: 91 Resp: 11469

Ion Ratio Lower Upper

91 100

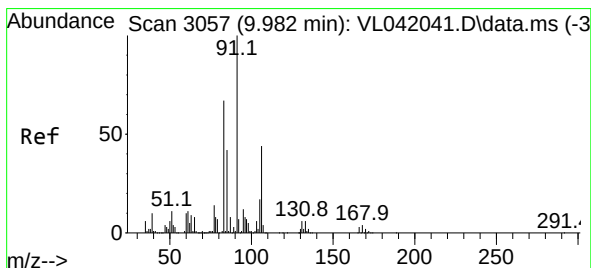
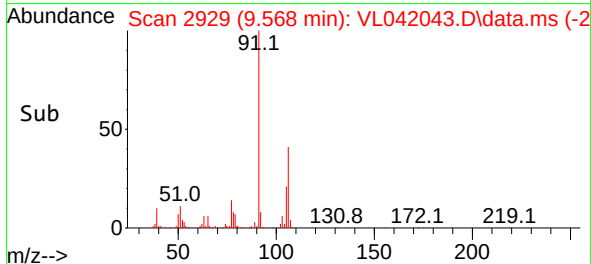
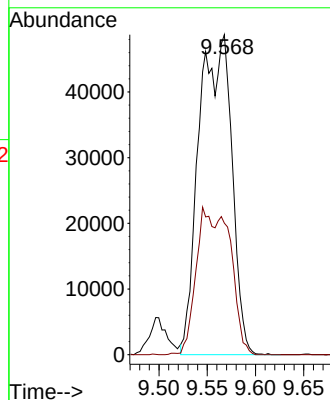
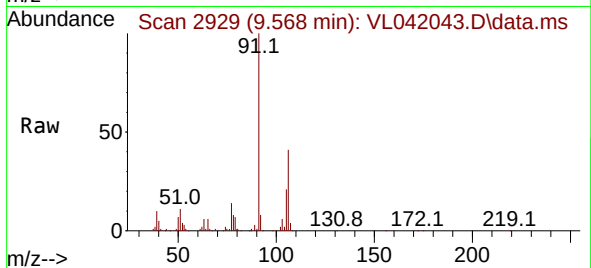
106 47.6 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025

Supervised By :Mahesh Dadoda 02/26/2025



#60

o-Xylene

Concen: 0.889 ppbv

RT: 9.979 min Scan# 3056

Delta R.T. -0.003 min

Lab File: VL042043.D

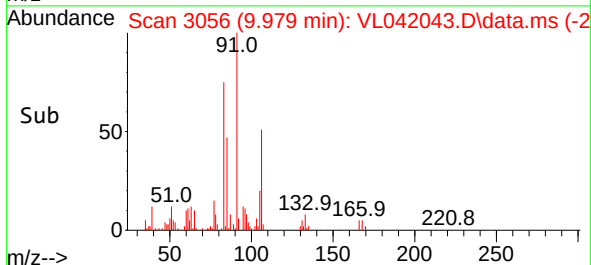
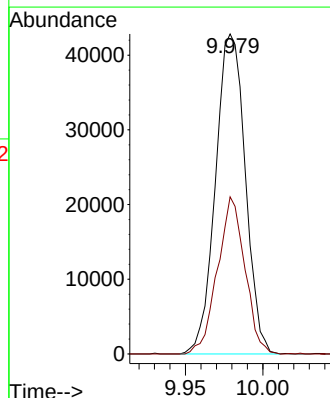
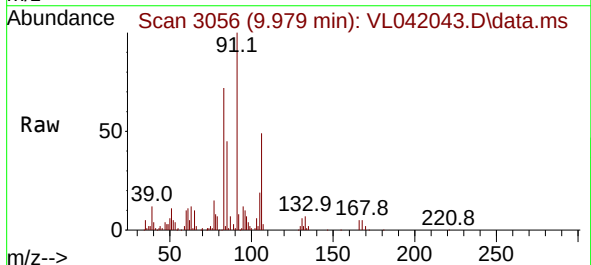
Acq: 25 Feb 2025 10:00

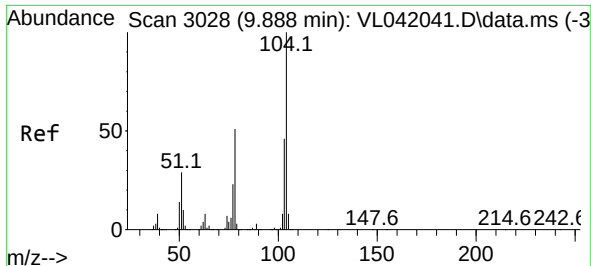
Tgt Ion: 91 Resp: 57322

Ion Ratio Lower Upper

91 100

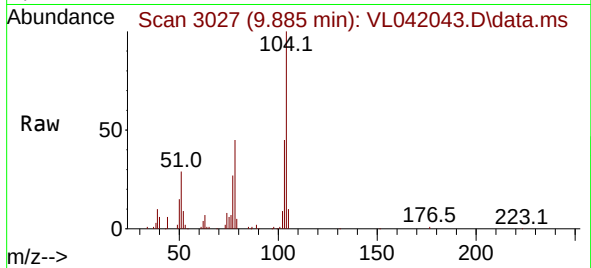
106 45.2 22.3 66.8





#61
Styrene
Concen: 0.865 ppbv
RT: 9.885 min Scan# 3028
Delta R.T. -0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

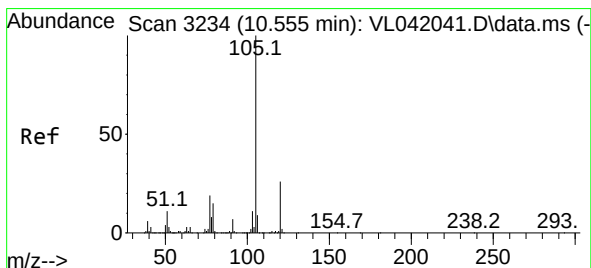
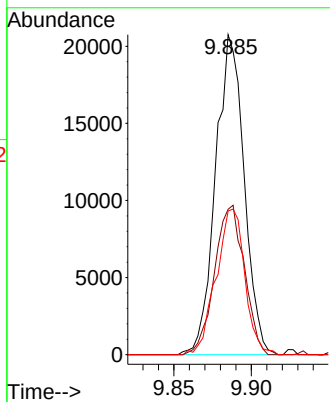
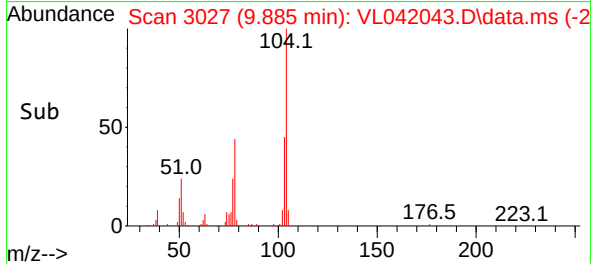
Instrument : MSVOA_L
ClientSampleId : VSTDIC001



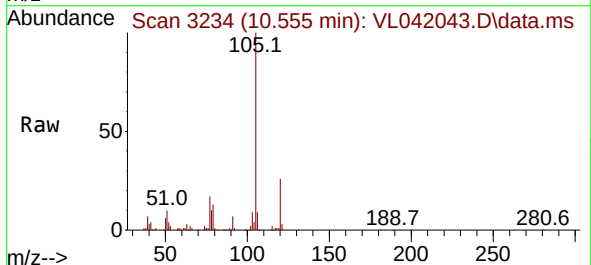
Tgt Ion:104 Resp: 26590
Ion Ratio Lower Upper
104 100
78 48.6 41.0 61.4
103 45.9 37.0 55.6

Manual Integrations
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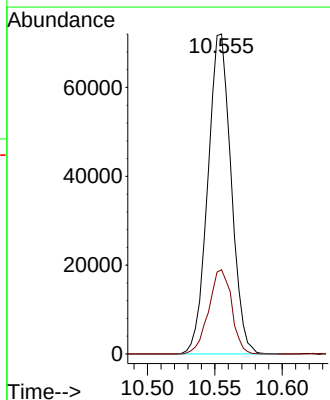
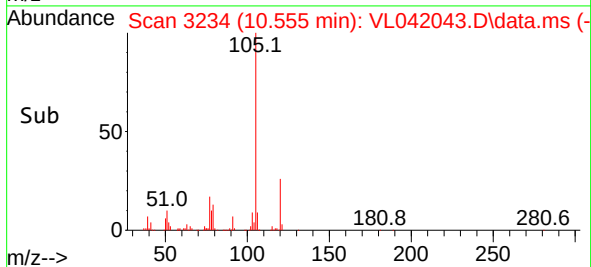
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

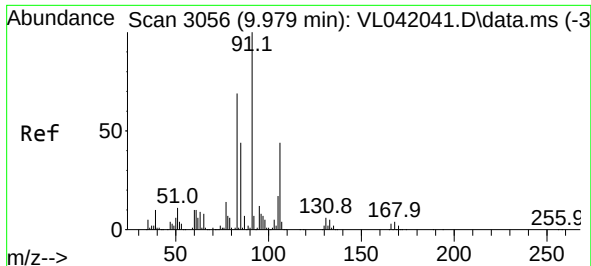


#62
Isopropylbenzene
Concen: 0.894 ppbv
RT: 10.555 min Scan# 3234
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00



Tgt Ion:105 Resp: 86533
Ion Ratio Lower Upper
105 100
120 26.0 20.7 31.1





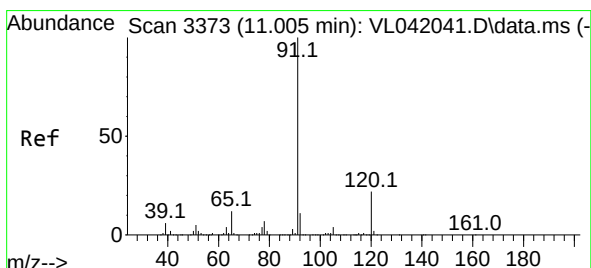
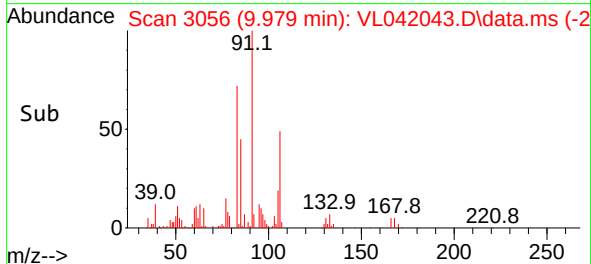
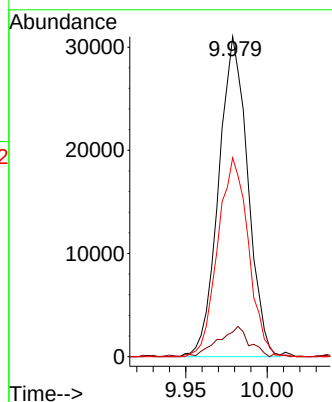
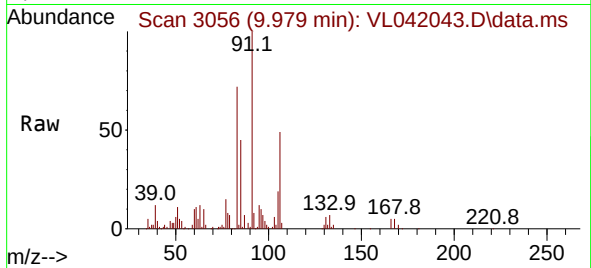
#63
1,1,2,2-Tetrachloroethane
Concen: 0.926 ppbv
RT: 9.979 min Scan# 3056
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Instrument : MSVOA_L
ClientSampleId : VSTDICC001

Tgt Ion: 83 Resp: 38520
Ion Ratio Lower Upper
83 100
131 10.6 4.5 13.7
85 65.2 32.1 96.3

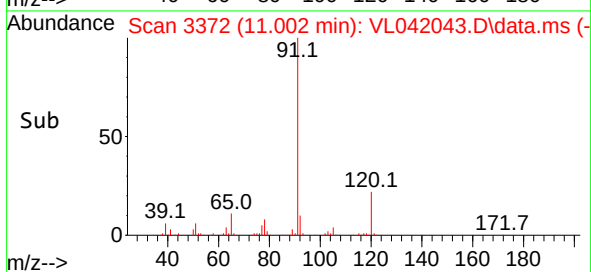
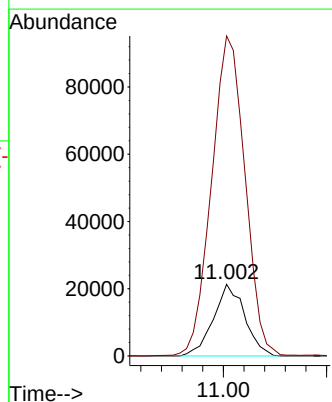
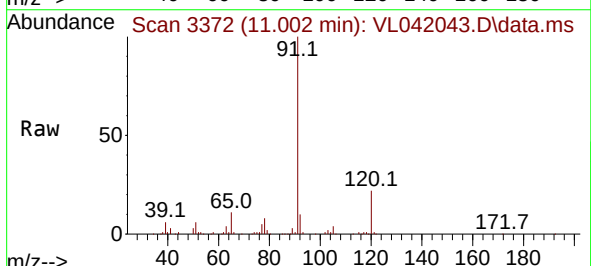
Manual Integrations
APPROVED

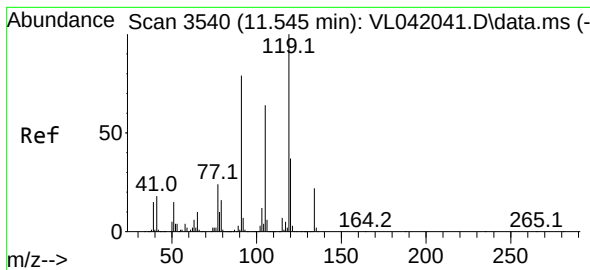
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#64
n-propylbenzene
Concen: 0.944 ppbv
RT: 11.002 min Scan# 3372
Delta R.T. -0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

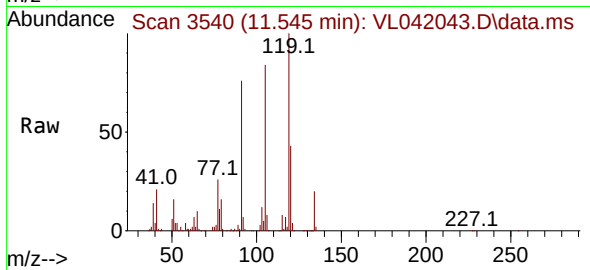
Tgt Ion:120 Resp: 22456
Ion Ratio Lower Upper
120 100
91 478.3 370.6 556.0





#65
tert-Butylbenzene
Concen: 0.987 ppbv
RT: 11.545 min Scan# 311
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

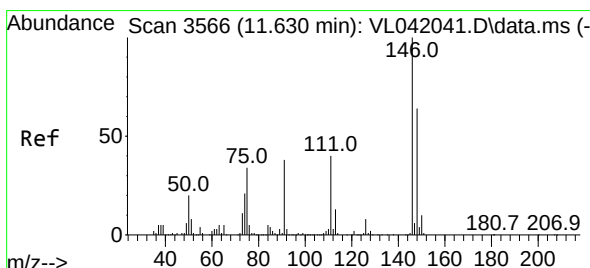
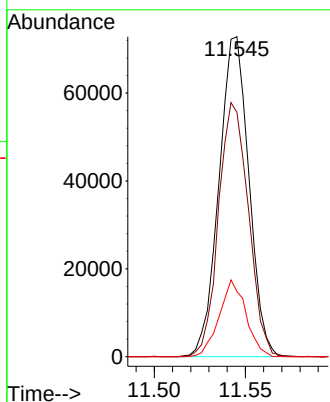
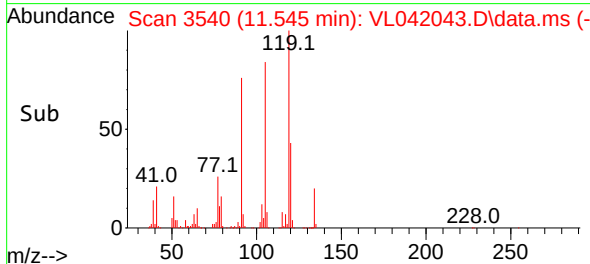
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



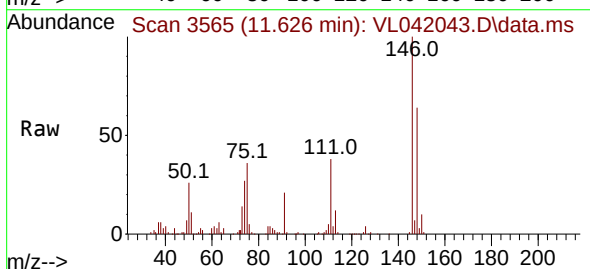
Tgt Ion: 119 Resp: 83284
Ion Ratio Lower Upper
119 100
91 79.2 64.2 96.2
134 21.5 17.4 26.2

Manual Integrations
APPROVED

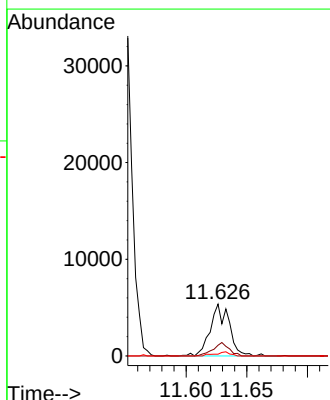
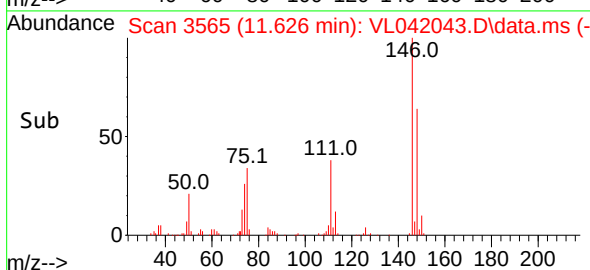
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

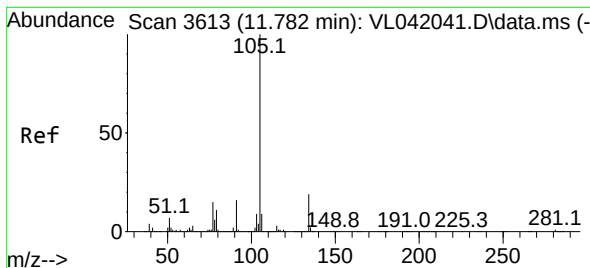


#66
Benzyl Chloride
Concen: 0.695 ppbv m
RT: 11.626 min Scan# 3565
Delta R.T. -0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00



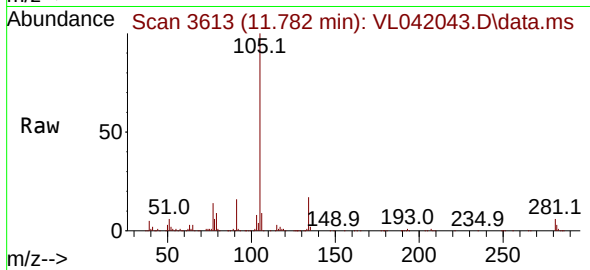
Tgt Ion: 91 Resp: 5880
Ion Ratio Lower Upper
91 100
126 0.0 14.5 21.7#
128 0.0 5.4 8.2#





#67
 sec-Butylbenzene
 Concen: 1.007 ppbv
 RT: 11.782 min Scan# 3613
 Delta R.T. -0.000 min
 Lab File: VL042043.D
 Acq: 25 Feb 2025 10:00

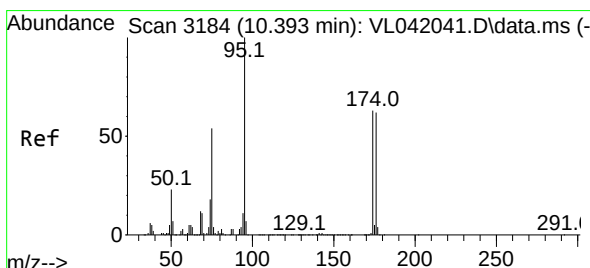
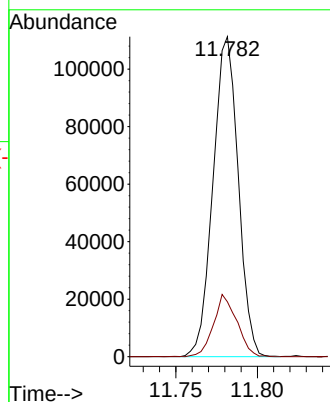
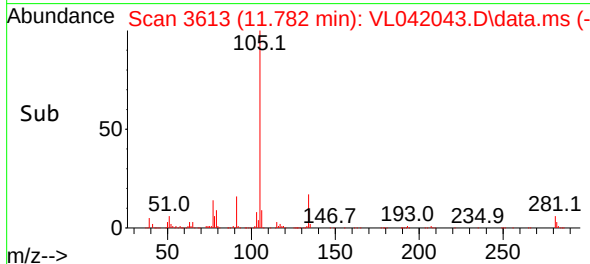
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



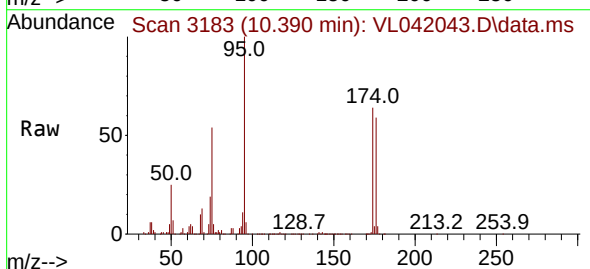
Tgt Ion: 105 Resp: 11943
 Ion Ratio Lower Upper
 105 100
 134 18.1 14.9 22.3

Manual Integrations
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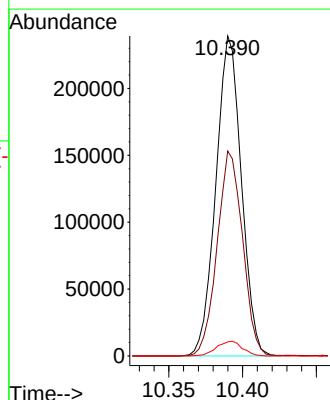
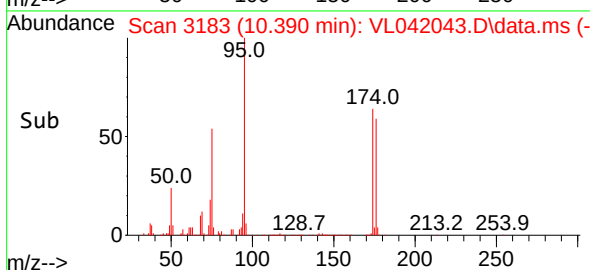
Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025

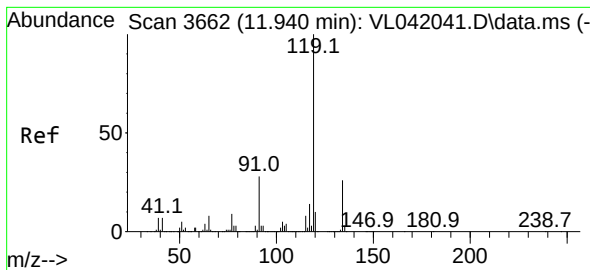


#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.420 ppbv
 RT: 10.390 min Scan# 3183
 Delta R.T. -0.003 min
 Lab File: VL042043.D
 Acq: 25 Feb 2025 10:00



Tgt Ion: 95 Resp: 287450
 Ion Ratio Lower Upper
 95 100
 174 63.9 51.8 77.6
 175 4.7 3.9 5.9





#69
p-Isopropyltoluene
Concen: 0.966 ppbv
RT: 11.940 min Scan# 3662
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

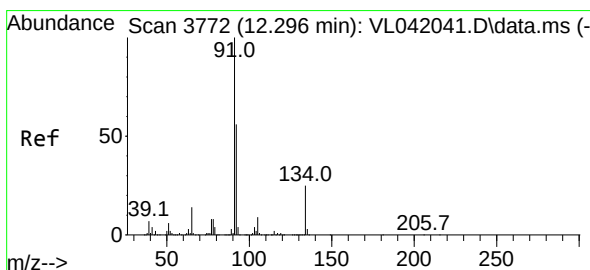
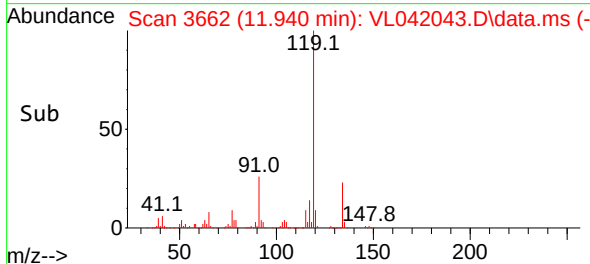
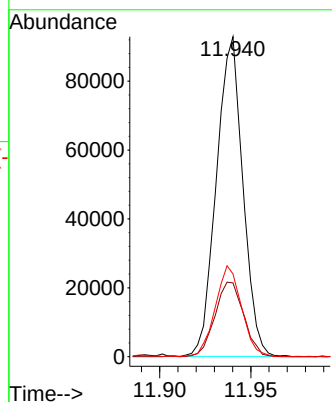
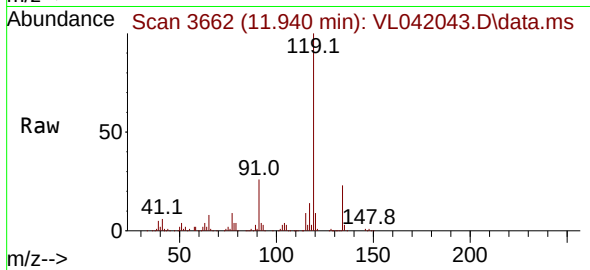
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 119 Resp: 93710

Ion	Ratio	Lower	Upper
119	100		
134	25.4	20.9	31.3
91	28.2	23.1	34.7

Manual Integrations
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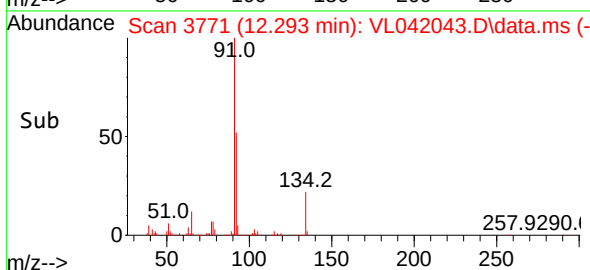
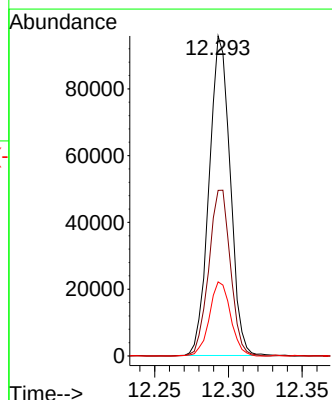
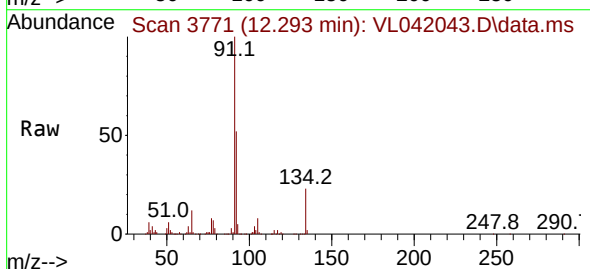
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

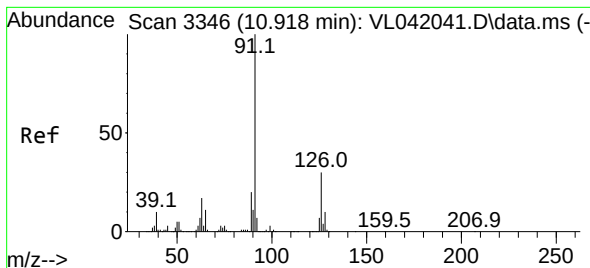


#70
n-Butylbenzene
Concen: 0.993 ppbv
RT: 12.293 min Scan# 3771
Delta R.T. -0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 91 Resp: 94969

Ion	Ratio	Lower	Upper
91	100		
92	53.5	44.7	67.1
134	23.5	18.9	28.3





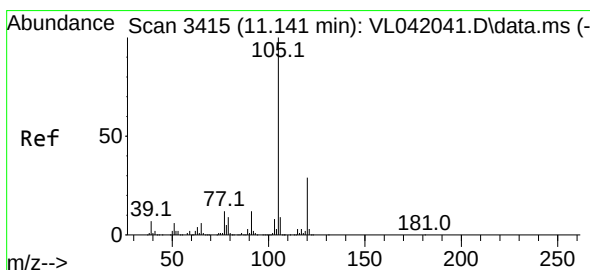
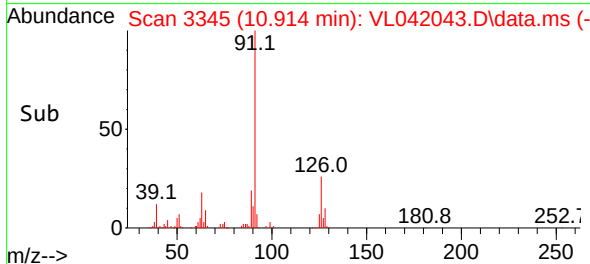
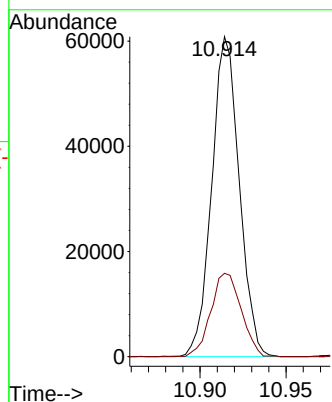
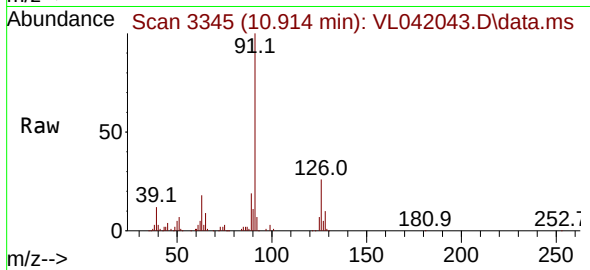
#71
2-Chlorotoluene
Concen: 0.928 ppbv
RT: 10.914 min Scan# 31
Delta R.T. -0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 6765
Ion Ratio Lower Upper
91 100
126 28.8 11.9 47.5

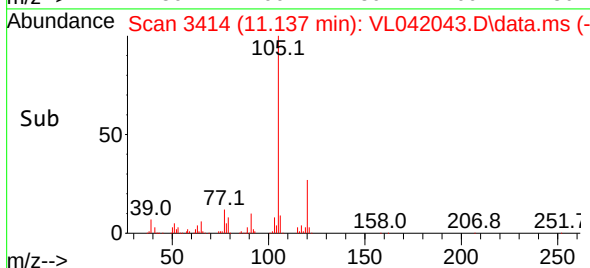
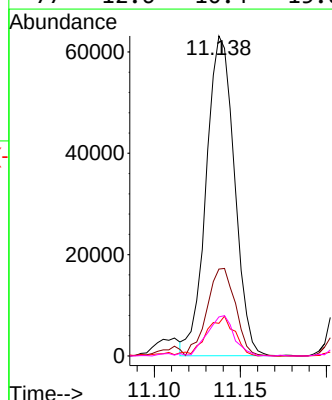
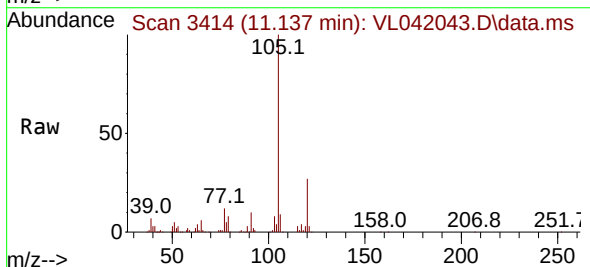
Manual Integrations
APPROVED

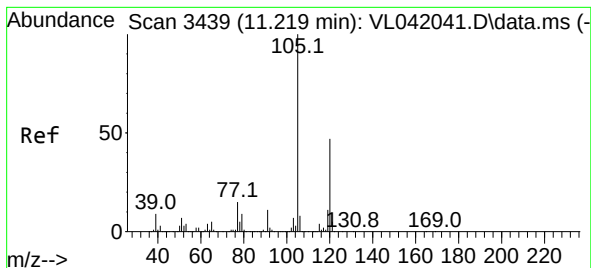
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#72
4-Ethyltoluene
Concen: 0.952 ppbv
RT: 11.137 min Scan# 3414
Delta R.T. -0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion:105 Resp: 71906
Ion Ratio Lower Upper
105 100
120 29.5 24.1 36.1
91 13.5 10.2 15.4
77 12.6 10.4 15.6





#73

1,3,5-Trimethylbenzene

Concen: 0.983 ppbv

RT: 11.215 min Scan# 3439

Delta R.T. -0.003 min

Lab File: VL042043.D

Acq: 25 Feb 2025 10:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion:105 Resp: 6408

Ion Ratio Lower Upper

105 100

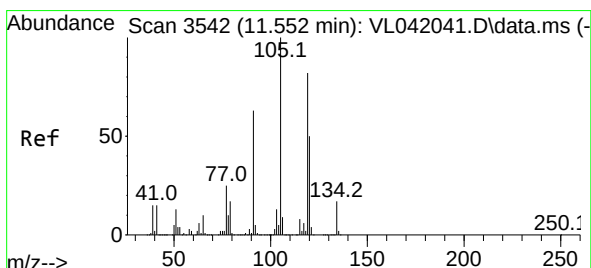
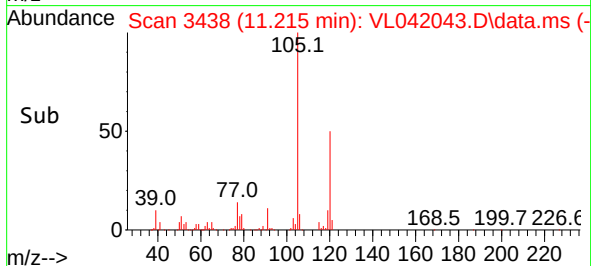
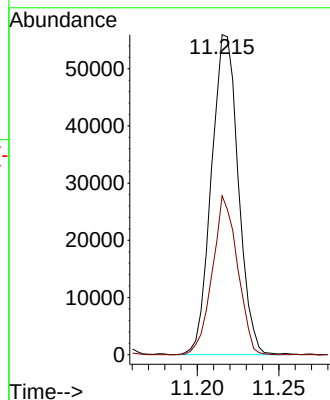
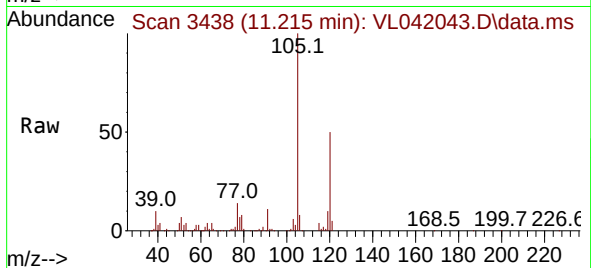
120 49.7 37.4 56.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025

Supervised By :Mahesh Dadoda 02/26/2025



#74

1,2,4-Trimethylbenzene

Concen: 1.048 ppbv

RT: 11.549 min Scan# 3541

Delta R.T. -0.003 min

Lab File: VL042043.D

Acq: 25 Feb 2025 10:00

Tgt Ion:105 Resp: 73323

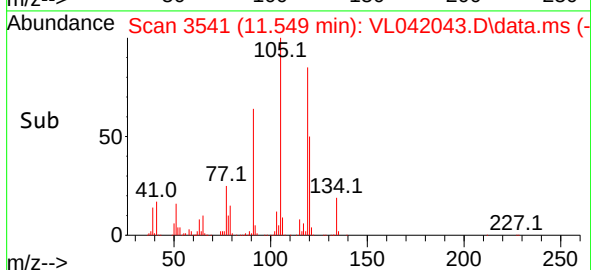
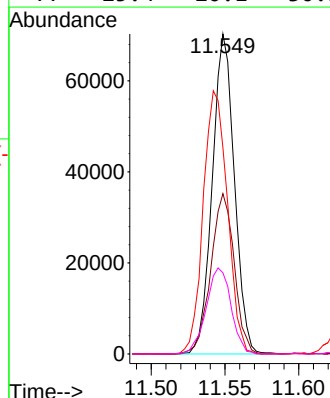
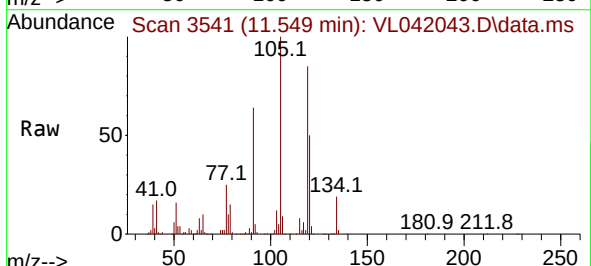
Ion Ratio Lower Upper

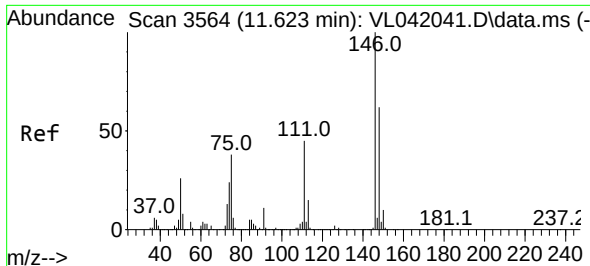
105 100

120 50.1 40.2 60.2

91 64.4 51.4 77.2

77 25.4 20.1 30.1





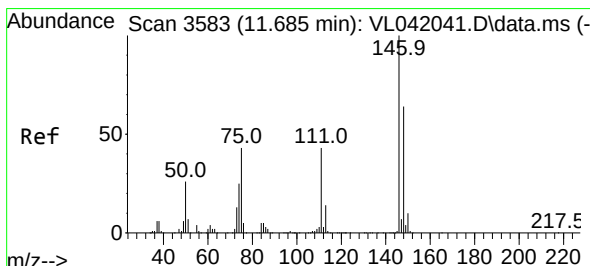
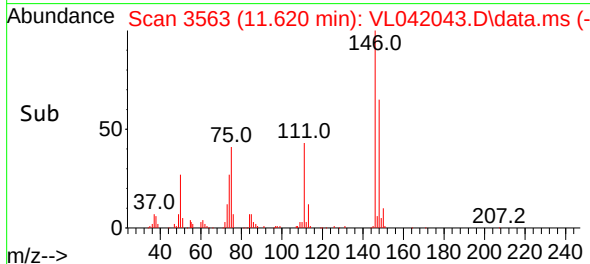
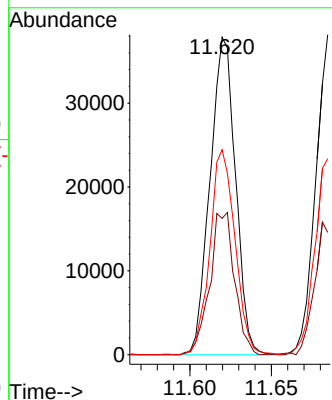
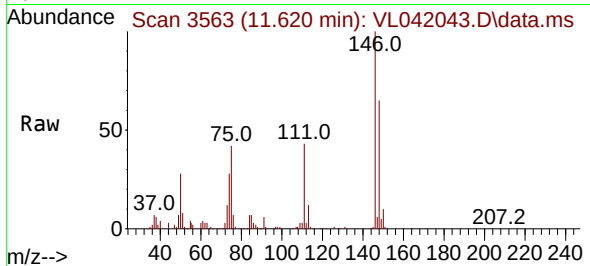
#75
1,3-Dichlorobenzene
Concen: 1.091 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. -0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion:146 Resp: 4106
Ion Ratio Lower Upper
146 100
111 43.7 22.4 67.2
148 63.9 32.3 96.8

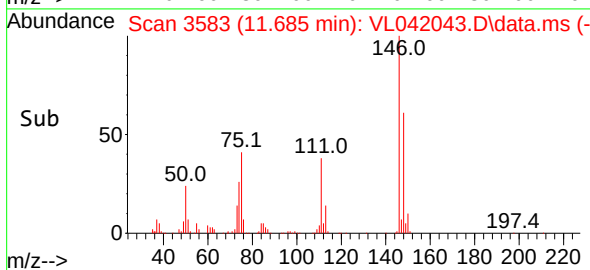
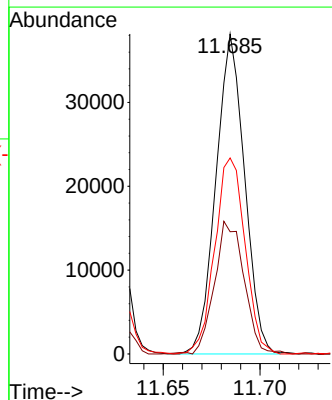
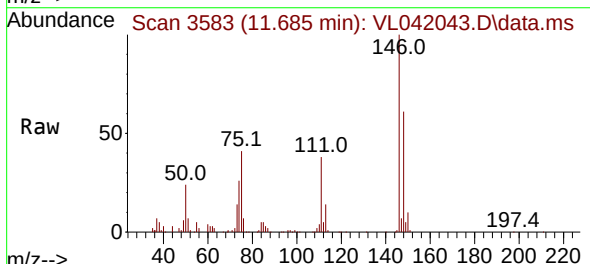
Manual Integrations
APPROVED

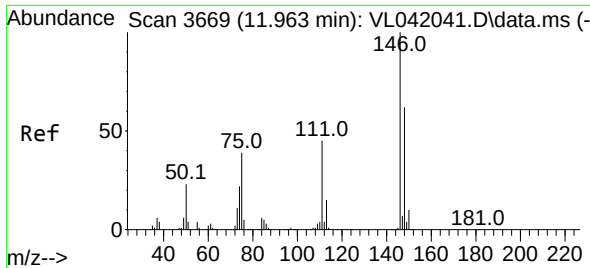
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#76
1,4-Dichlorobenzene
Concen: 1.068 ppbv
RT: 11.685 min Scan# 3583
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

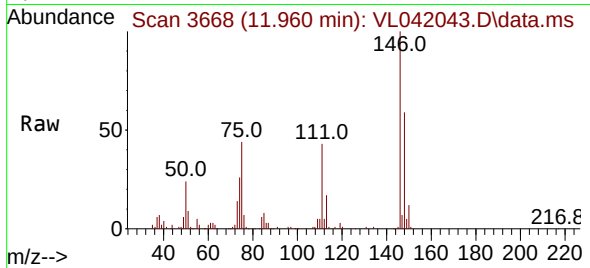
Tgt Ion:146 Resp: 39235
Ion Ratio Lower Upper
146 100
111 42.9 21.5 64.5
148 65.0 31.6 95.0





#77
1,2-Dichlorobenzene
Concen: 1.127 ppbv
RT: 11.960 min Scan# 3668
Delta R.T. -0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

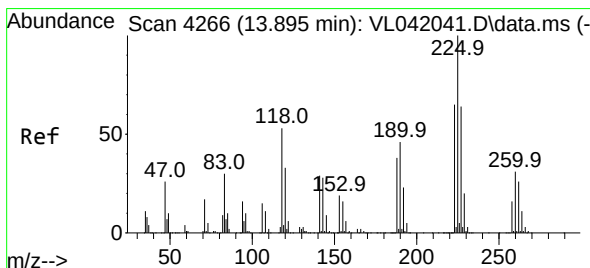
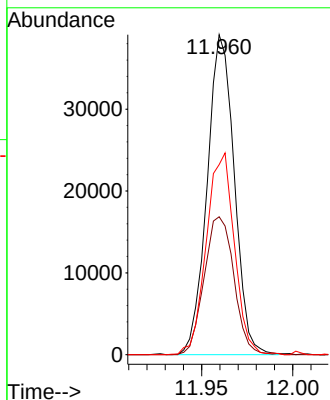
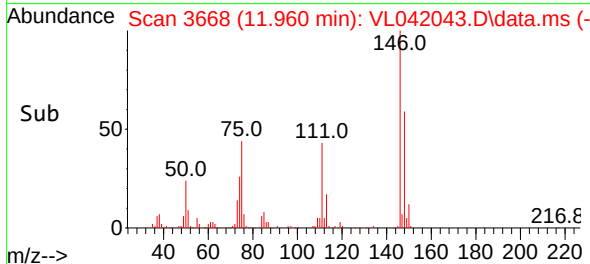
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



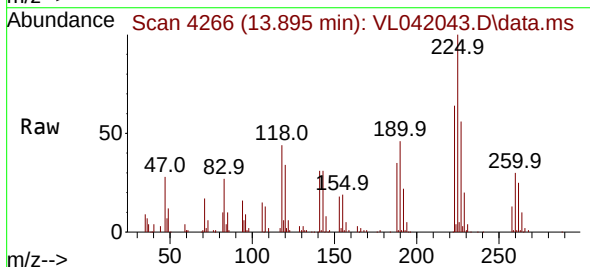
Tgt Ion:146 Resp: 40574
Ion Ratio Lower Upper
146 100
111 47.1 23.2 69.6
148 65.4 31.4 94.2

Manual Integrations
APPROVED

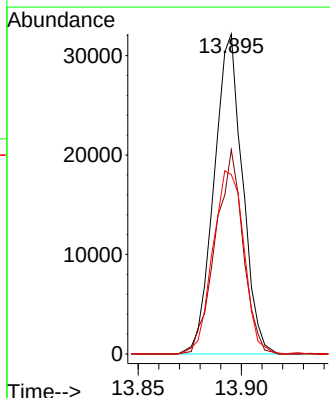
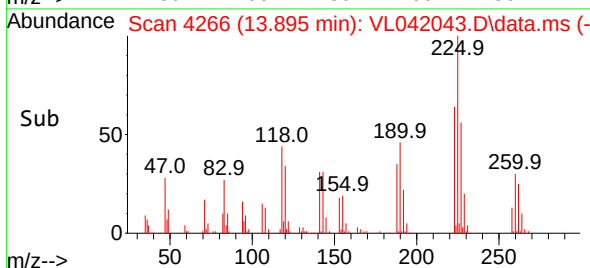
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

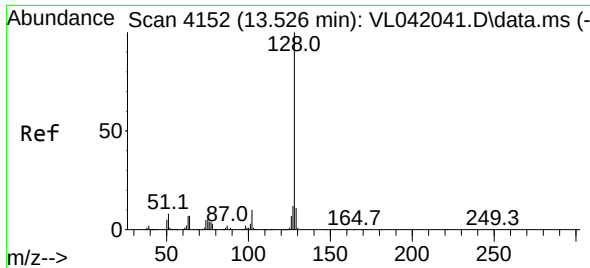


#78
Hexachloro-1,3-Butadiene
Concen: 1.033 ppbv
RT: 13.895 min Scan# 4266
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00



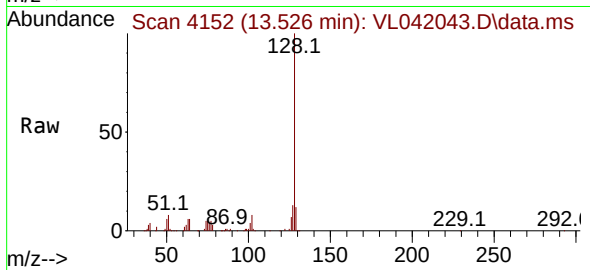
Tgt Ion:225 Resp: 30764
Ion Ratio Lower Upper
225 100
223 62.2 50.2 75.2
227 63.2 50.8 76.2





#79
Naphthalene
Concen: 0.665 ppbv
RT: 13.526 min Scan# 4152
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

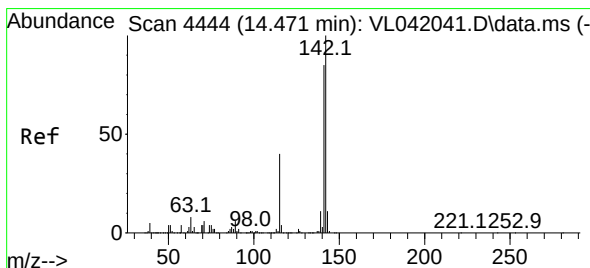
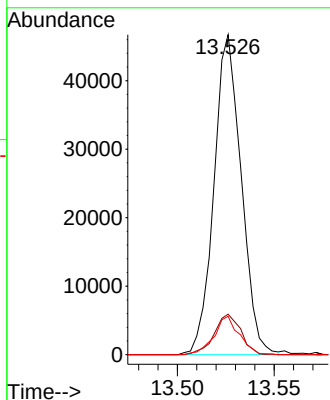
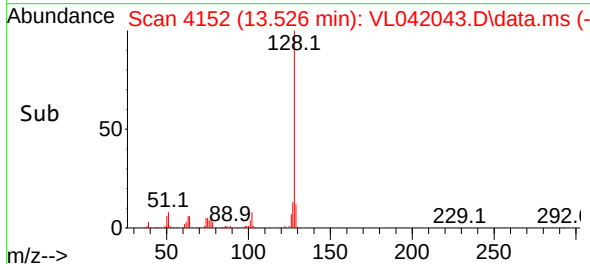
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



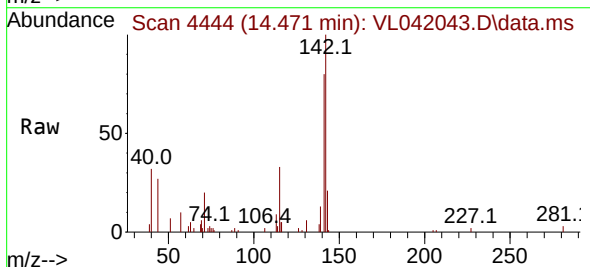
Tgt Ion:128 Resp: 4574
Ion Ratio Lower Upper
128 100
127 12.7 9.8 14.6
129 12.0 8.6 12.8

Manual Integrations
APPROVED

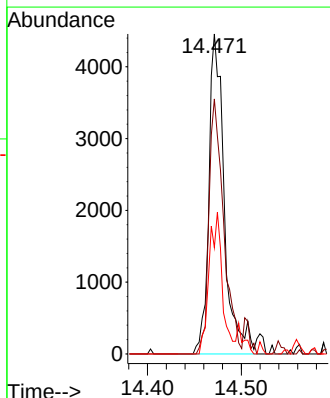
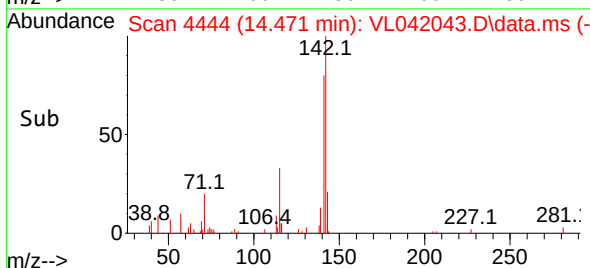
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

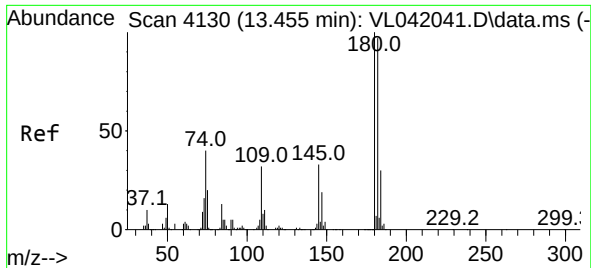


#80
Naphthalene,2-methyl-
Concen: 0.168 ppbv
RT: 14.471 min Scan# 4444
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00



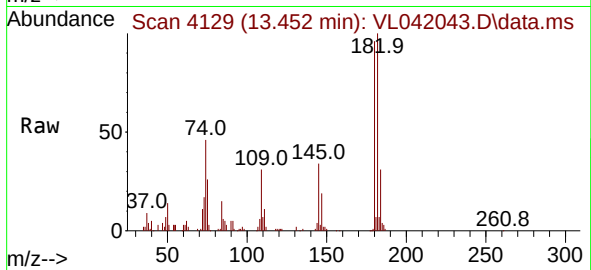
Tgt Ion:142 Resp: 5244
Ion Ratio Lower Upper
142 100
141 77.7 65.8 98.6
115 41.6 29.5 44.3





#81
 1,2,4-Trichlorobenzene
 Concen: 0.908 ppbv
 RT: 13.452 min Scan# 41
 Delta R.T. -0.003 min
 Lab File: VL042043.D
 Acq: 25 Feb 2025 10:00

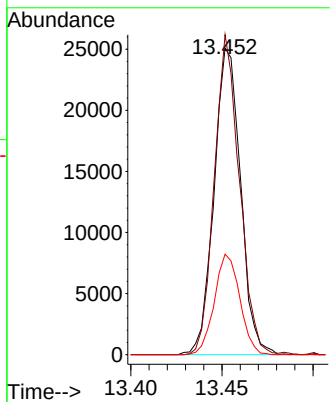
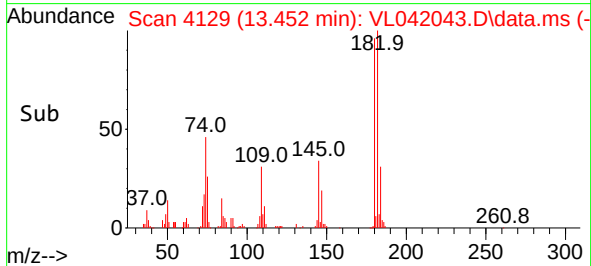
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



Tgt Ion:	180	Resp:	2540
Ion Ratio	Lower	Upper	
180	100		
182	98.8	75.1	112.7
184	31.4	23.8	35.6

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042044.D
 Acq On : 25 Feb 2025 10:31
 Operator : SY/MD
 Sample : VSTDIC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Quant Time: Feb 25 10:56:41 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

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

QLast Update : Tue Feb 25 10:31:48 2025

Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025
 Supervised By : Mahesh Dadoda 02/26/2025

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

Internal Standards						
1) Bromochloromethane	2.797	49	159644	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	421340	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	365954	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.390	95	281042	9.310	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.100%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	8852	0.322	ppbv	98
3) Chlorodifluoromethane	1.479	51	11921	0.392	ppbv	94
4) Chloromethane	1.537	50	3497	0.327	ppbv #	88
5) Vinyl Chloride	1.583	62	3005	0.235	ppbv	98
6) Bromomethane	1.673	94	1359	0.275	ppbv	92
7) Chloroethane	1.709	64	1205	0.290	ppbv	89
8) Dichlorotetrafluoroethane	1.557	85	7123	0.295	ppbv	99
9) Propene	1.486	41	4904	0.374	ppbv	94
10) Heptane	5.004	43	15731	0.432	ppbv	98
11) Trichlorofluoromethane	1.884	101	8429	0.305	ppbv	92
12) 1,1,2-Trichlorotrifluo...	2.146	101	7336	0.340	ppbv	98
13) Ethanol	1.725	45	426	0.288	ppbv	75
14) Bromoethene	1.787	108	2598	0.323	ppbv #	89
15) Acetone	1.842	43	8655	0.328	ppbv	96
16) 1,3-Butadiene	1.615	39	3803	0.304	ppbv	97
17) tert-Butyl alcohol	2.049	59	9447	0.290	ppbv #	90
18) 1,1-Dichloroethene	2.039	96	3173	0.308	ppbv	94
19) Isopropyl Alcohol	1.894	45	4481	0.303	ppbv #	32
20) Methylene Chloride	2.068	84	3423	0.345	ppbv	97
21) Allyl Chloride	2.104	41	5640	0.296	ppbv	100
22) trans-1,2-Dichloroethene	2.347	96	3838m	0.343	ppbv	
23) Vinyl Acetate	2.473	43	5499	0.385	ppbv #	86
24) 1,1-Dichloroethane	2.418	63	7396	0.326	ppbv #	88
25) Ethyl Acetate	2.848	43	30593	0.423	ppbv	98
26) Hexane	2.832	57	12739	0.439	ppbv	98
27) Carbon Disulfide	2.159	76	8316	0.305	ppbv #	15
28) Methyl tert-Butyl Ether	2.450	73	5185	0.292	ppbv #	80
29) Chloroform	2.858	83	17278	0.411	ppbv	93
30) Cyclohexane	3.874	84	9209	0.391	ppbv	88
31) cis-1,2-Dichloroethene	2.729	61	11344	0.395	ppbv	97
32) 1,1,1-Trichloroethane	3.382	97	15027	0.322	ppbv	93
34) 2-Butanone	2.570	43	17555	0.484	ppbv	99
35) Carbon Tetrachloride	3.780	117	14223	0.348	ppbv	90
36) Benzene	3.670	78	22728	0.445	ppbv	95
37) 1,2-Dichloroethane	3.230	62	13141	0.452	ppbv	100
38) Trichloroethene	4.570	130	9115	0.440	ppbv #	87
39) 1,2-Dichloropropane	4.331	63	8877m	0.474	ppbv	
40) 1,4-Dioxane	4.622	88	4046m	0.416	ppbv	
41) Tetrahydrofuran	3.078	42	9880	0.477	ppbv	98
42) Bromodichloromethane	4.505	83	16973	0.431	ppbv #	96
43) Methyl Methacrylate	4.904	69	8428	0.362	ppbv	93
44) 2,2,4-Trimethylpentane	4.661	57	40623	0.469	ppbv	98
45) t-1,3-Dichloropropene	6.441	75	8720m	0.397	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042044.D
 Acq On : 25 Feb 2025 10:31
 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 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 10:56:41 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

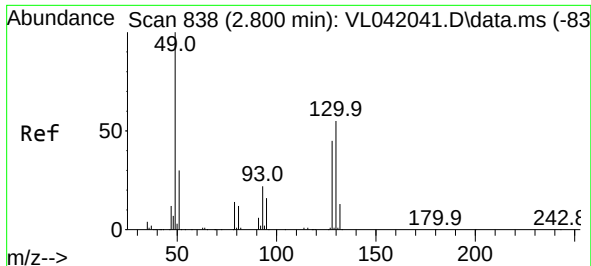
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Feb 25 10:31:48 2025

Response via : Initial Calibration

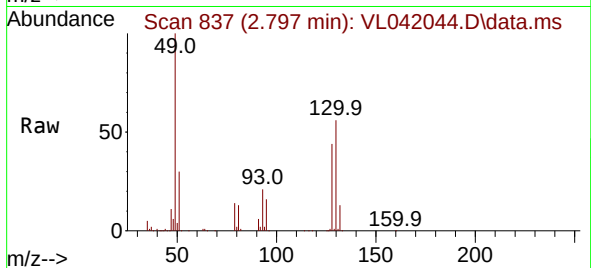
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.629	75	10834m	0.389	ppbv	
47) 1,1,2-Trichloroethane	6.609	97	8982m	0.456	ppbv	
48) Dibromochloromethane	7.406	129	13014m	0.395	ppbv	
49) Bromoform	9.496	173	11640	0.430	ppbv	98
50) 4-Methyl-2-Pentanone	5.794	43	20992m	0.377	ppbv	
51) 2-Hexanone	7.470	43	12149m	0.267	ppbv	
52) Tetrachloroethene	8.241	164	8012	0.450	ppbv	95
53) Toluene	6.956	91	24224	0.398	ppbv	96
54) 1,2-Dibromoethane	7.674	107	11718m	0.432	ppbv	
56) 1,1,1,2-Tetrachloroethane	8.940	131	11100	0.424	ppbv #	61
57) Chlorobenzene	8.936	112	20167	0.468	ppbv	97
58) Ethyl Benzene	9.370	91	34506	0.431	ppbv	90
59) m/p-Xylene	9.568	91	54449m	0.863	ppbv	
60) o-Xylene	9.979	91	28757	0.451	ppbv	95
61) Styrene	9.885	104	12051	0.396	ppbv	99
62) Isopropylbenzene	10.552	105	42074	0.439	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.975	83	18774	0.456	ppbv	96
64) n-propylbenzene	11.001	120	10900	0.463	ppbv	100
65) tert-Butylbenzene	11.542	119	38066	0.456	ppbv	98
66) Benzyl Chloride	11.626	91	2589	0.309	ppbv #	96
67) sec-Butylbenzene	11.778	105	54394	0.464	ppbv	97
69) p-Isopropyltoluene	11.937	119	40978	0.427	ppbv	95
70) n-Butylbenzene	12.293	91	42673	0.451	ppbv	99
71) 2-Chlorotoluene	10.914	91	32161	0.446	ppbv	99
72) 4-Ethyltoluene	11.137	105	32477	0.434	ppbv #	95
73) 1,3,5-Trimethylbenzene	11.215	105	29130	0.452	ppbv	91
74) 1,2,4-Trimethylbenzene	11.548	105	33950	0.491	ppbv	97
75) 1,3-Dichlorobenzene	11.616	146	20339	0.546	ppbv	96
76) 1,4-Dichlorobenzene	11.684	146	20492	0.564	ppbv	93
77) 1,2-Dichlorobenzene	11.959	146	19373	0.544	ppbv	96
78) Hexachloro-1,3-Butadiene	13.892	225	15367	0.522	ppbv	99
79) Naphthalene	13.523	128	17897	0.263	ppbv #	95
80) Naphthalene,2-methyl-	14.478	142	1646	0.053	ppbv #	81
81) 1,2,4-Trichlorobenzene	13.452	180	10771	0.389	ppbv	94

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

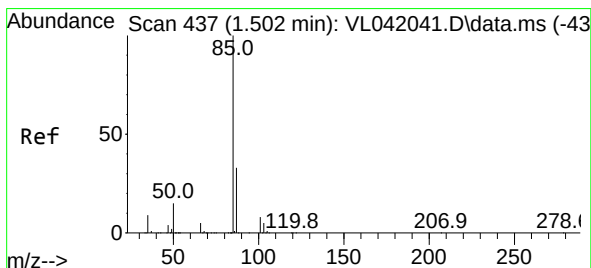
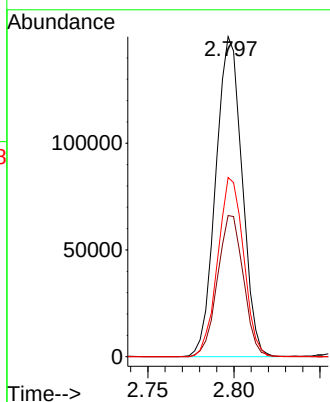
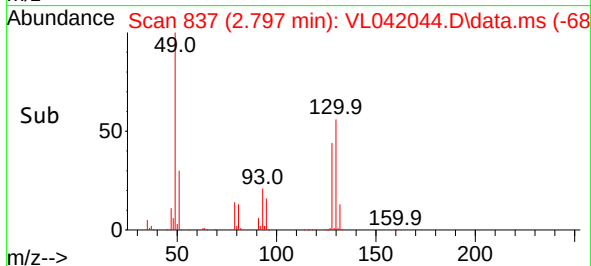
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



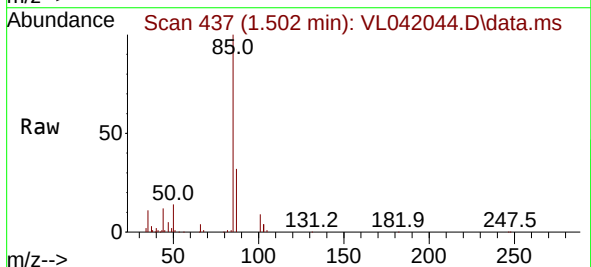
Tgt Ion: 49 Resp: 15964
Ion Ratio Lower Upper
49 100
128 43.5 21.6 64.8
130 55.1 27.8 83.4

Manual Integrations
APPROVED

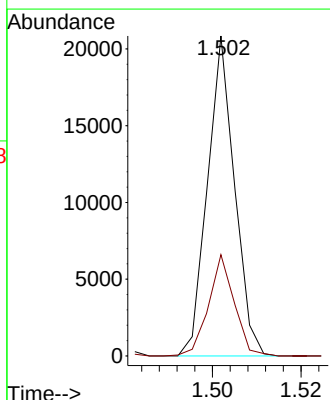
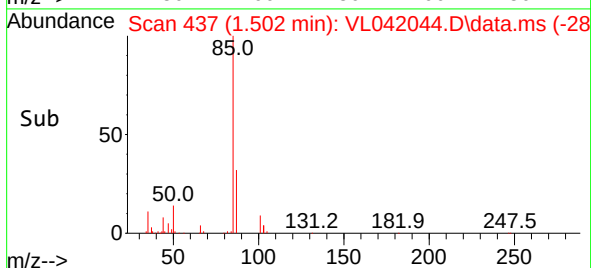
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

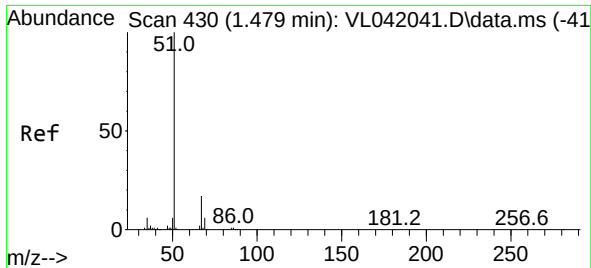


#2
Dichlorodifluoromethane
Concen: 0.322 ppbv
RT: 1.502 min Scan# 437
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31



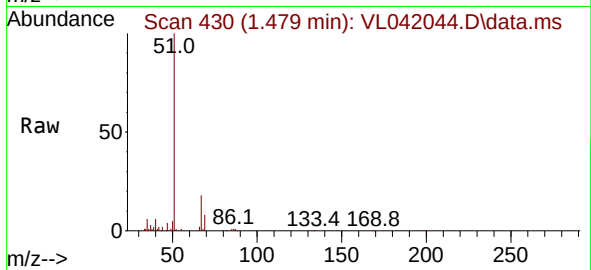
Tgt Ion: 85 Resp: 8852
Ion Ratio Lower Upper
85 100
87 31.7 26.4 39.6





#3
Chlorodifluoromethane
Concen: 0.392 ppbv
RT: 1.479 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

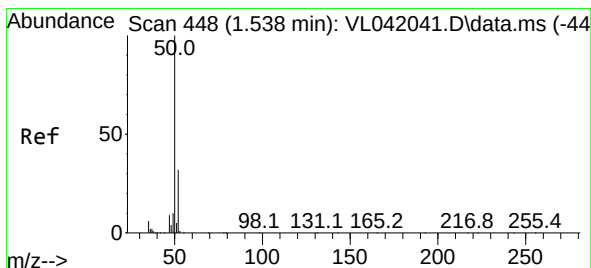
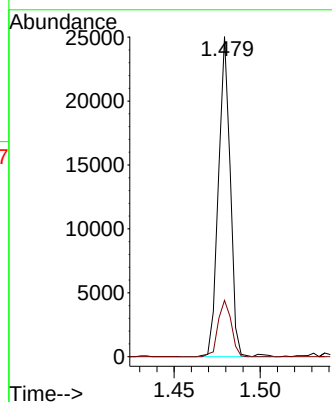
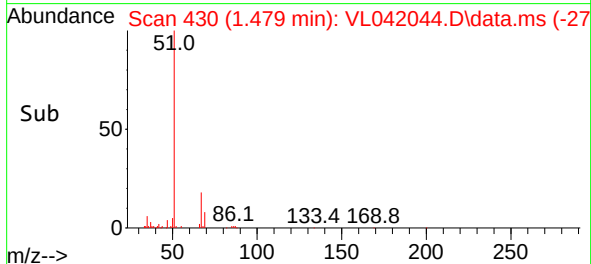
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



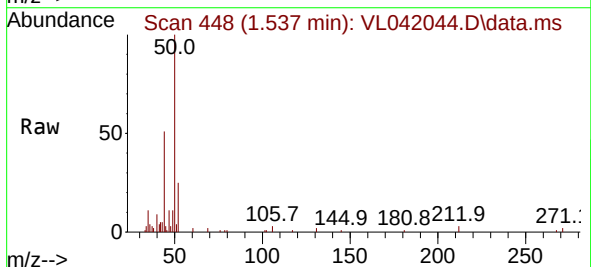
Tgt Ion: 51 Resp: 1192
Ion Ratio Lower Upper
51 100
67 19.6 13.7 20.5

Manual Integrations
APPROVED

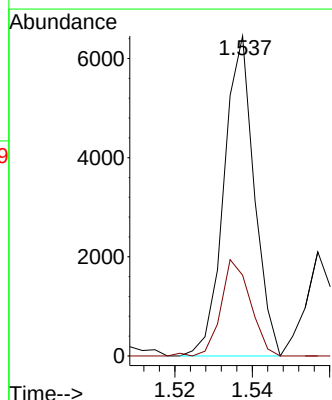
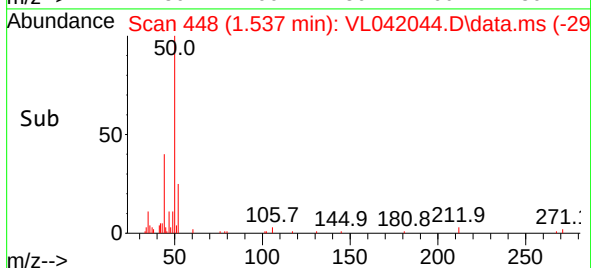
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

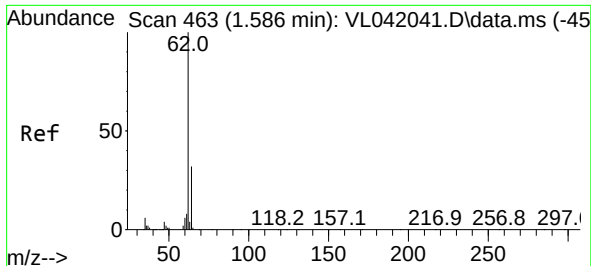


#4
Chloromethane
Concen: 0.327 ppbv
RT: 1.537 min Scan# 448
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31



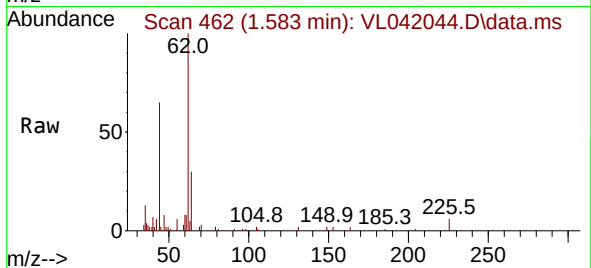
Tgt Ion: 50 Resp: 3497
Ion Ratio Lower Upper
50 100
52 25.3 25.4 38.0#





#5
 Vinyl Chloride
 Concen: 0.235 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. -0.004 min
 Lab File: VL042044.D
 Acq: 25 Feb 2025 10:31

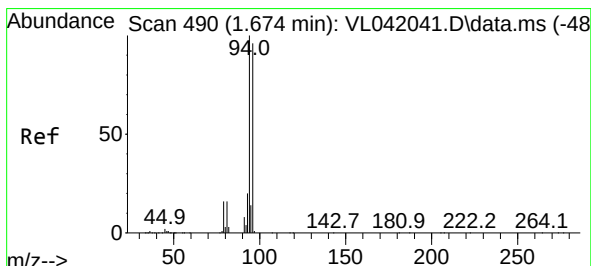
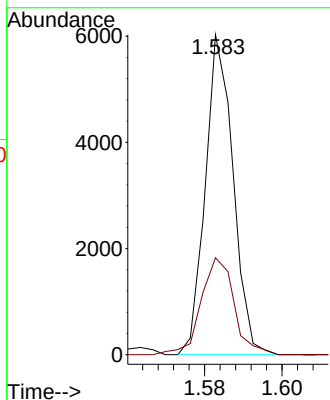
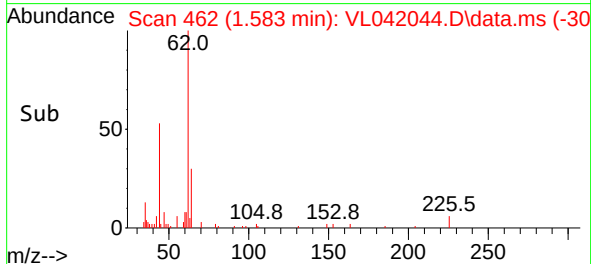
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5



Tgt Ion: 62 Resp: 300
 Ion Ratio Lower Upper
 62 100
 64 30.3 25.3 37.9

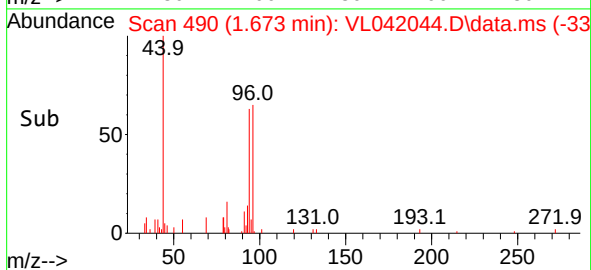
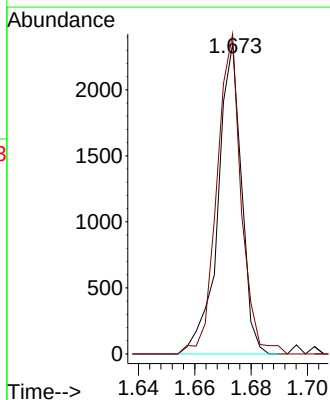
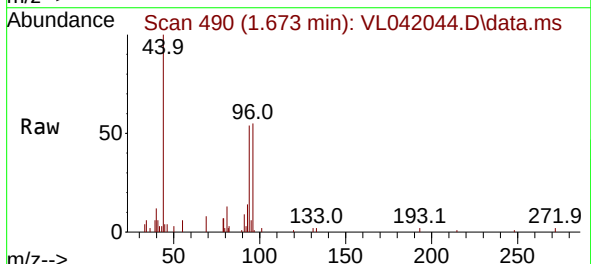
Manual Integrations
 APPROVED

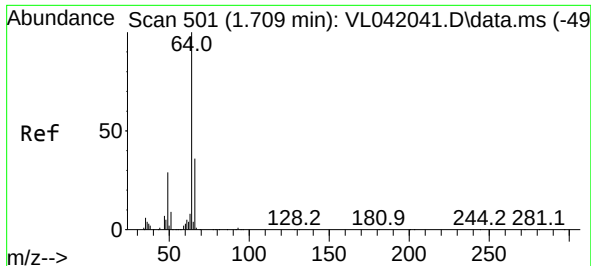
Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025



#6
 Bromomethane
 Concen: 0.275 ppbv
 RT: 1.673 min Scan# 490
 Delta R.T. -0.000 min
 Lab File: VL042044.D
 Acq: 25 Feb 2025 10:31

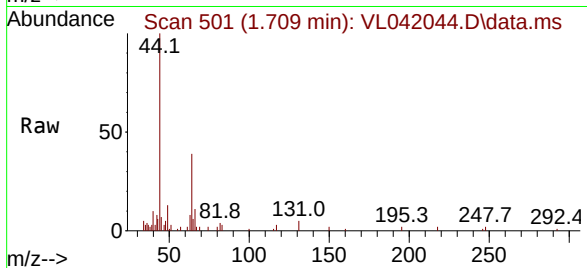
Tgt Ion: 94 Resp: 1359
 Ion Ratio Lower Upper
 94 100
 96 103.2 76.5 114.7





#7
Chloroethane
Concen: 0.290 ppbv
RT: 1.709 min Scan# 501
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

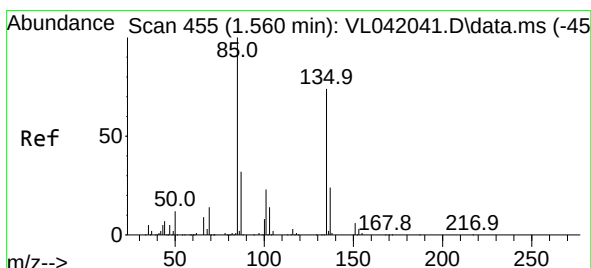
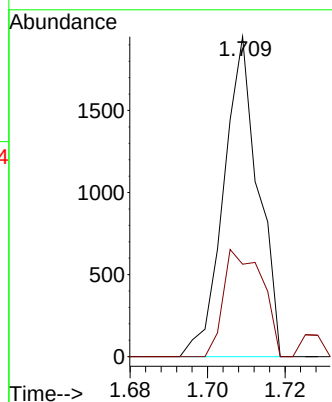
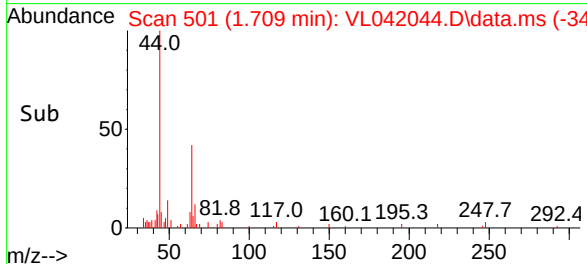
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



Tgt Ion: 64 Resp: 1209
Ion Ratio Lower Upper
64 100
66 28.9 28.4 42.6

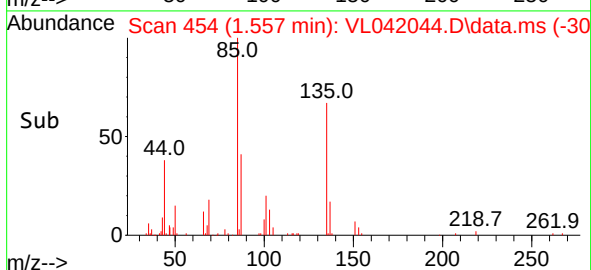
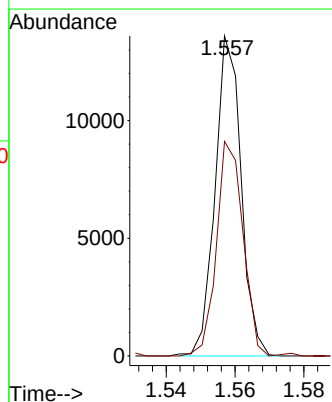
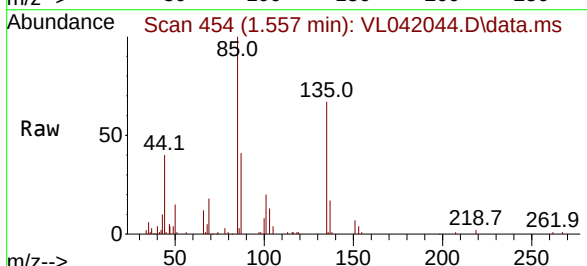
Manual Integrations
APPROVED

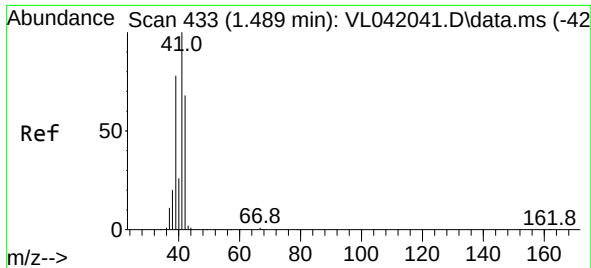
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#8
Dichlorotetrafluoroethane
Concen: 0.295 ppbv
RT: 1.557 min Scan# 454
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

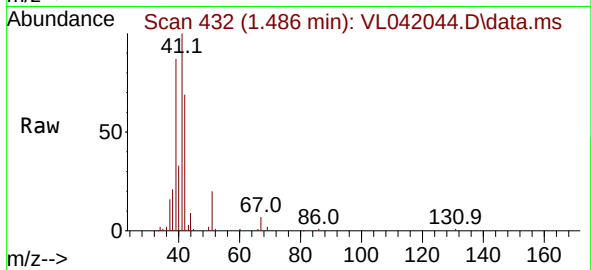
Tgt Ion: 85 Resp: 7123
Ion Ratio Lower Upper
85 100
135 69.0 54.6 81.8





#9
Propene
Concen: 0.374 ppbv
RT: 1.486 min Scan# 41
Delta R.T. -0.004 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

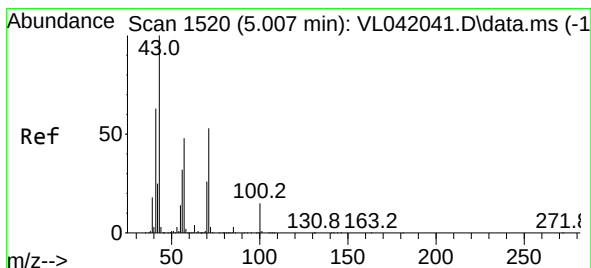
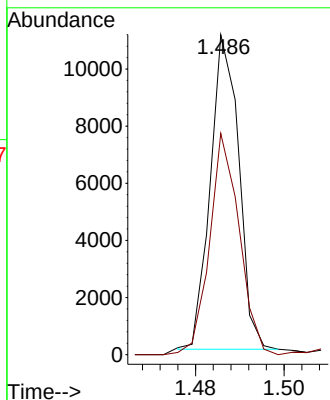
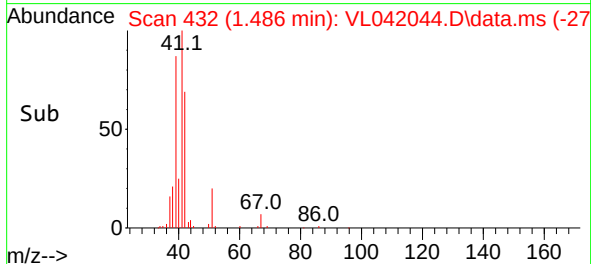
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



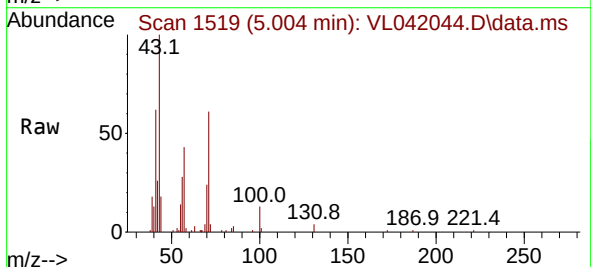
Tgt Ion: 41 Resp: 4904
Ion Ratio Lower Upper
41 100
42 74.6 55.8 83.6

Manual Integrations
APPROVED

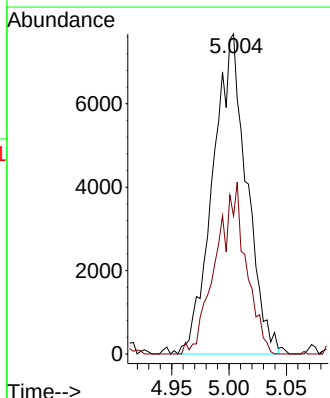
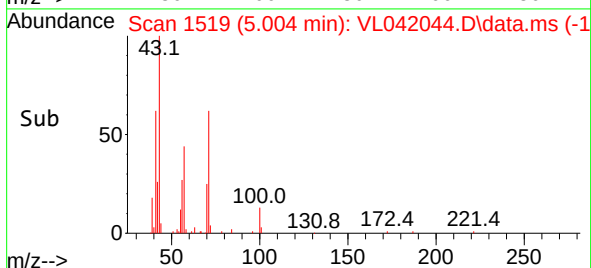
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

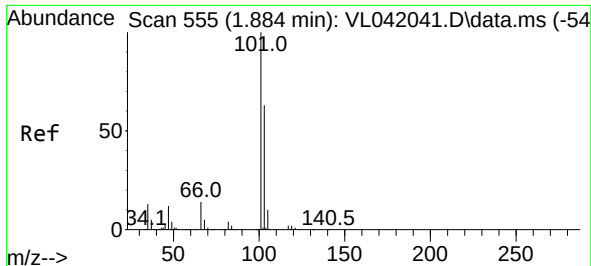


#10
Heptane
Concen: 0.432 ppbv
RT: 5.004 min Scan# 1519
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31



Tgt Ion: 43 Resp: 15731
Ion Ratio Lower Upper
43 100
57 47.7 39.4 59.0





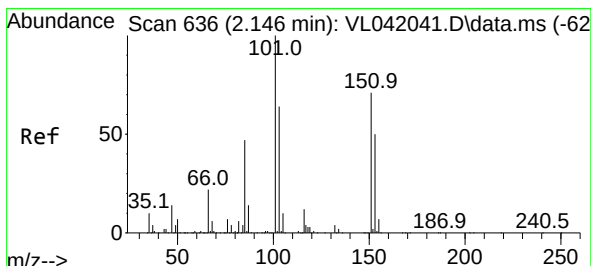
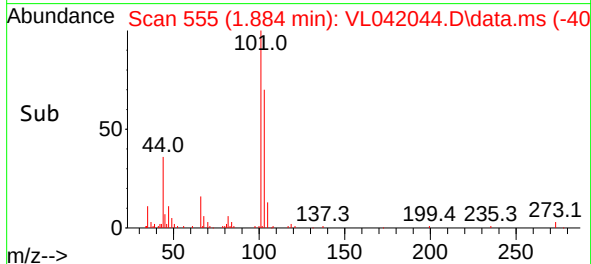
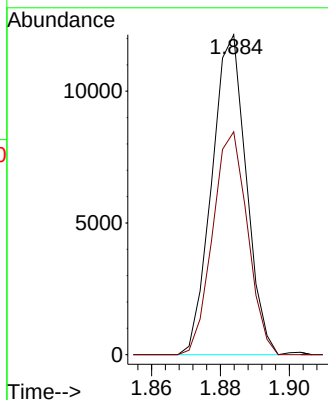
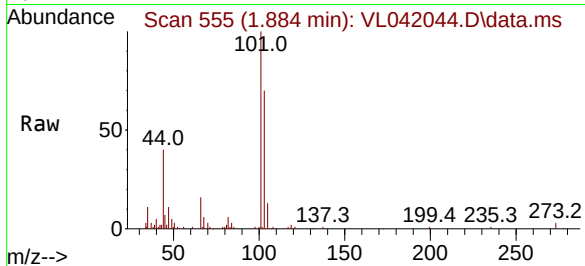
#11
 Trichlorofluoromethane
 Concen: 0.305 ppbv
 RT: 1.884 min Scan# 511
 Delta R.T. -0.000 min
 Lab File: VL042044.D
 Acq: 25 Feb 2025 10:31

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Tgt Ion:101 Resp: 8429
 Ion Ratio Lower Upper
 101 100
 103 69.6 50.6 75.8

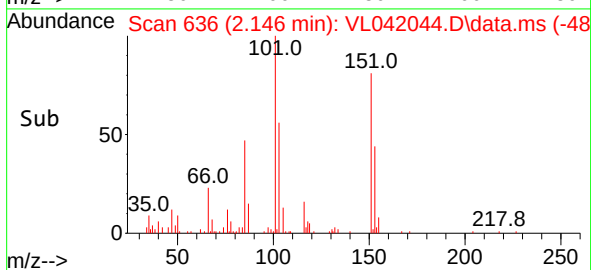
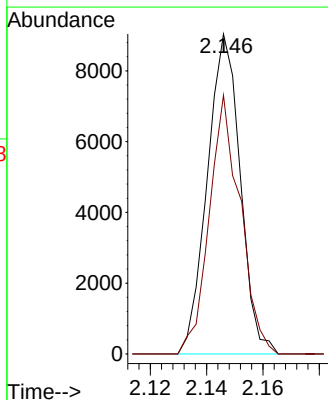
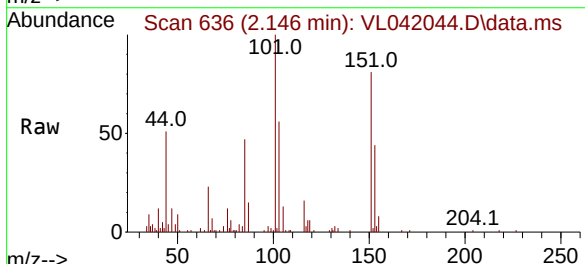
Manual Integrations
 APPROVED

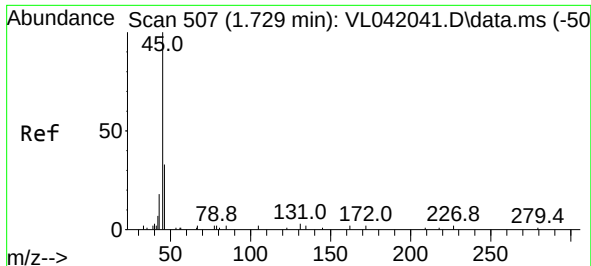
Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.340 ppbv
 RT: 2.146 min Scan# 636
 Delta R.T. -0.000 min
 Lab File: VL042044.D
 Acq: 25 Feb 2025 10:31

Tgt Ion:101 Resp: 7336
 Ion Ratio Lower Upper
 101 100
 151 76.2 62.6 94.0





#13

Ethanol

Concen: 0.288 ppbv

RT: 1.725 min Scan# 506

Delta R.T. -0.003 min

Lab File: VL042044.D

Acq: 25 Feb 2025 10:31

Instrument :

MSVOA_L

ClientSampleId :

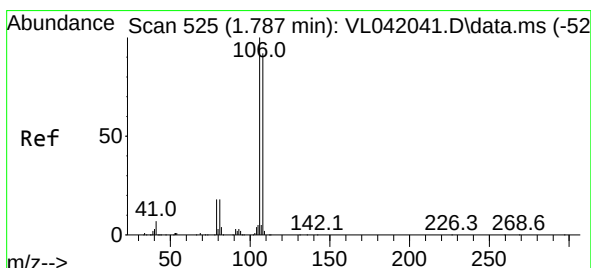
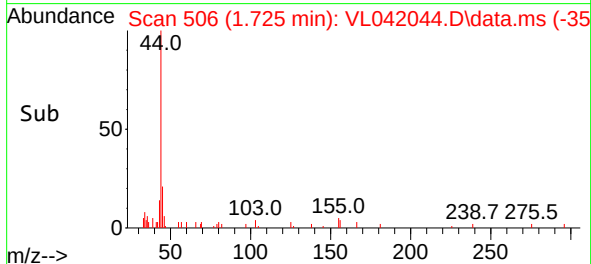
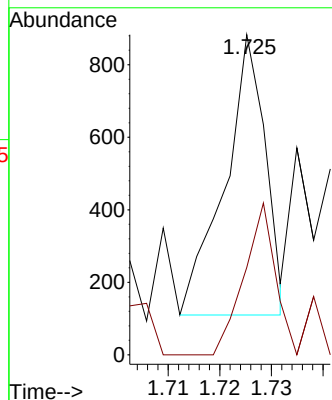
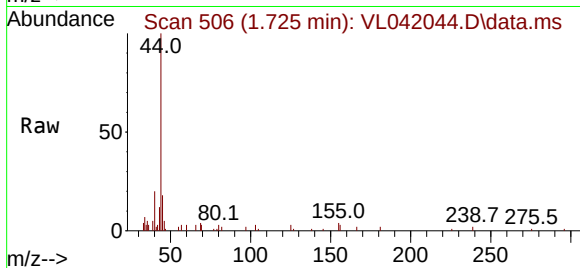
VSTDIC0.5

Tgt Ion: 45 Resp: 420
 Ion Ratio Lower Upper
 45 100
 46 58.9 17.1 68.3

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025



#14

Bromoethene

Concen: 0.323 ppbv

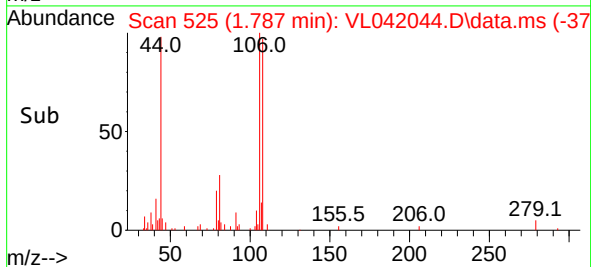
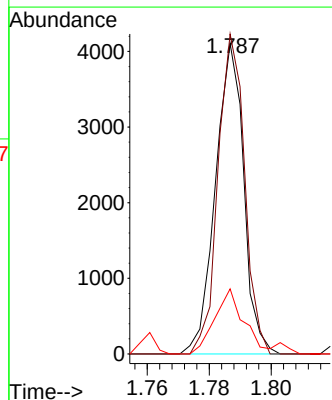
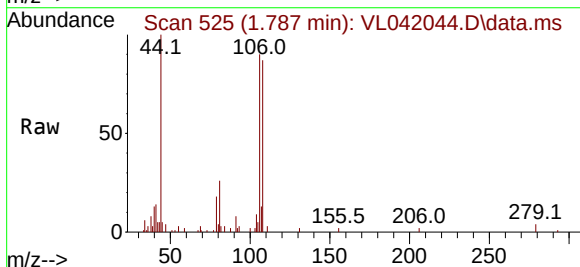
RT: 1.787 min Scan# 525

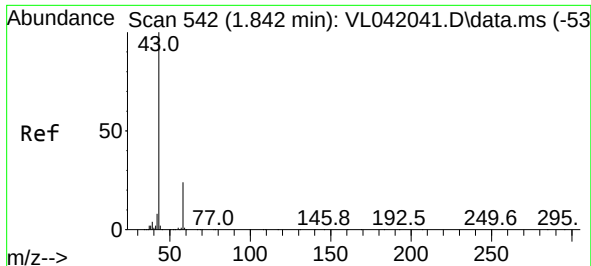
Delta R.T. -0.000 min

Lab File: VL042044.D

Acq: 25 Feb 2025 10:31

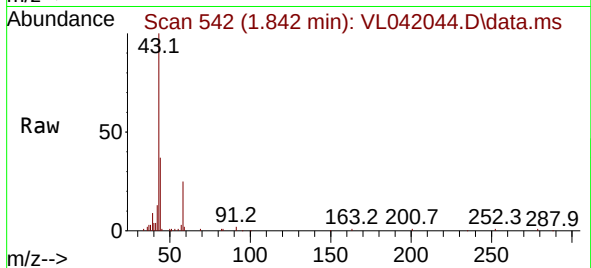
Tgt Ion:108 Resp: 2598
 Ion Ratio Lower Upper
 108 100
 106 96.8 85.4 128.0
 79 27.9 16.5 24.7#





#15
Acetone
Concen: 0.328 ppbv
RT: 1.842 min Scan# 542
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

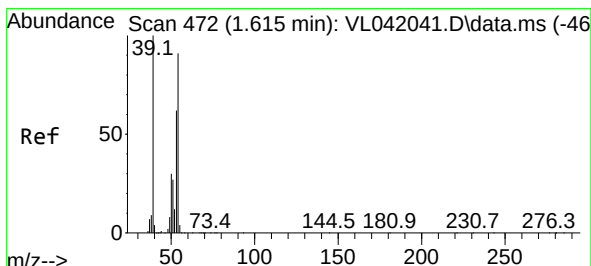
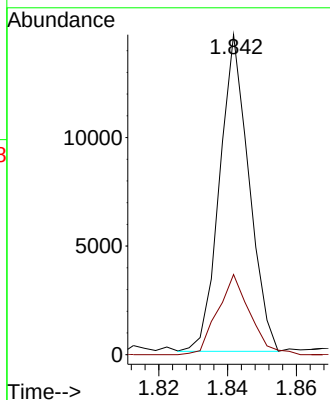
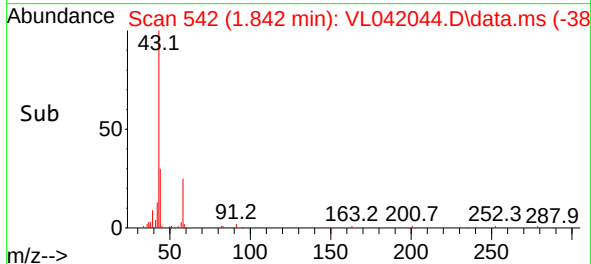
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



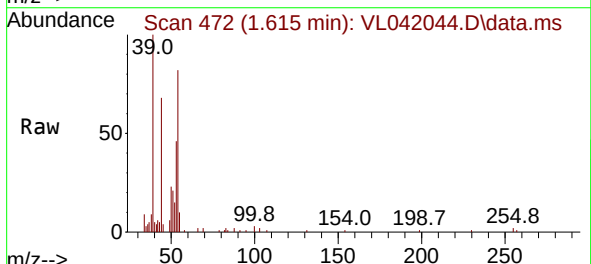
Tgt Ion: 43 Resp: 865
Ion Ratio Lower Upper
43 100
58 27.9 20.7 31.1

Manual Integrations
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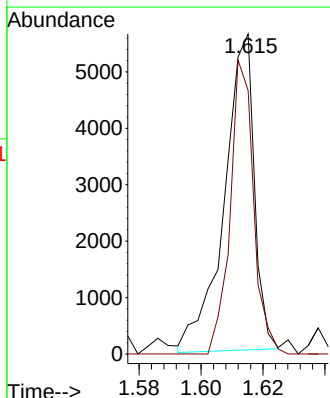
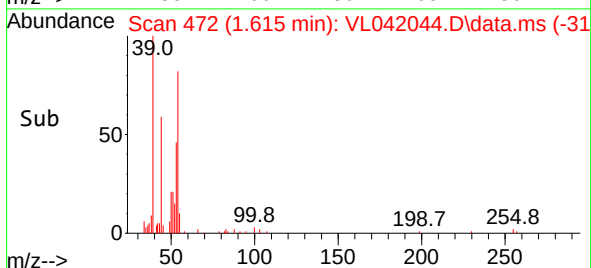
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

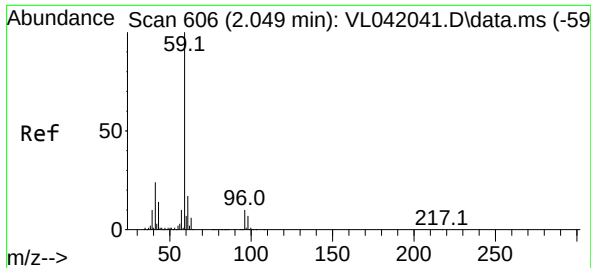


#16
1,3-Butadiene
Concen: 0.304 ppbv
RT: 1.615 min Scan# 472
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31



Tgt Ion: 39 Resp: 3803
Ion Ratio Lower Upper
39 100
54 71.9 59.6 89.4





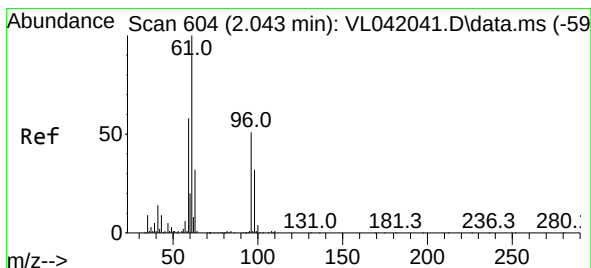
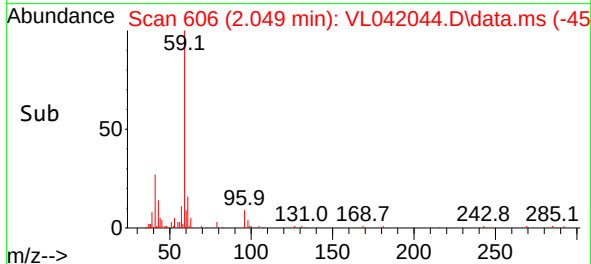
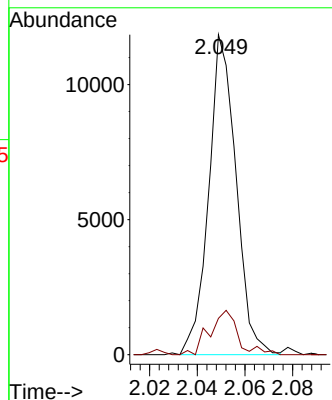
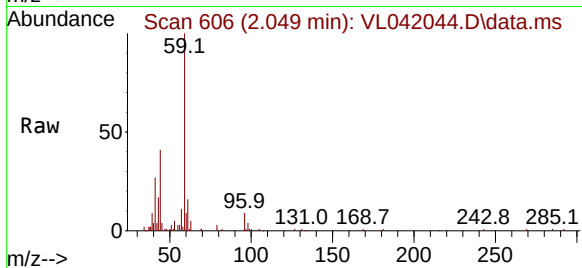
#17
tert-Butyl alcohol
Concen: 0.290 ppbv
RT: 2.049 min Scan# 606
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 59 Resp: 944
Ion Ratio Lower Upper
59 100
57 15.3 9.3 13.9

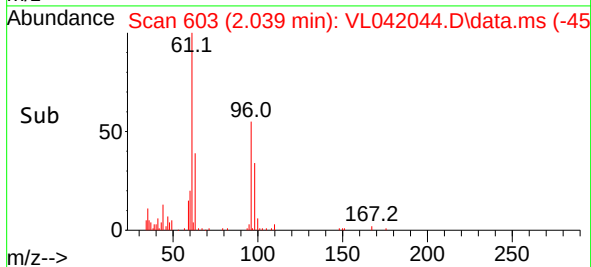
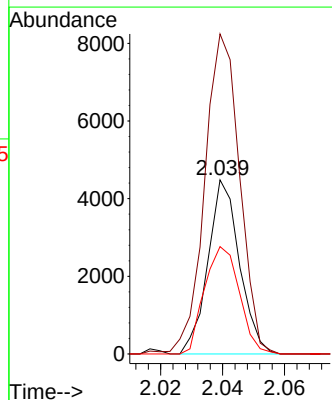
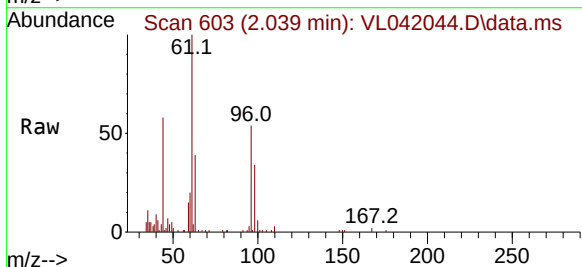
Manual Integrations
APPROVED

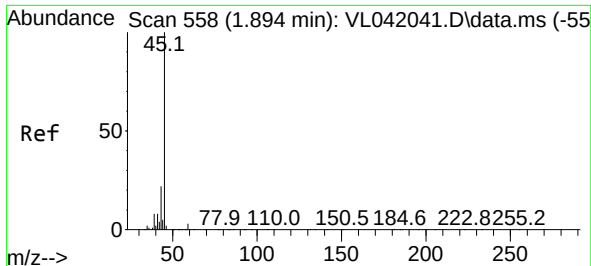
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#18
1,1-Dichloroethene
Concen: 0.308 ppbv
RT: 2.039 min Scan# 603
Delta R.T. -0.004 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 96 Resp: 3173
Ion Ratio Lower Upper
96 100
61 183.8 156.0 234.0
98 61.6 49.4 74.2





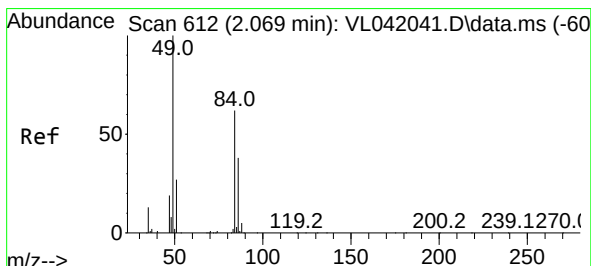
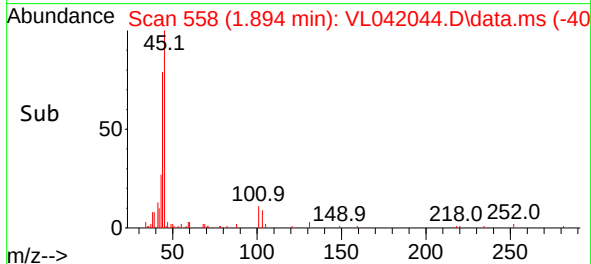
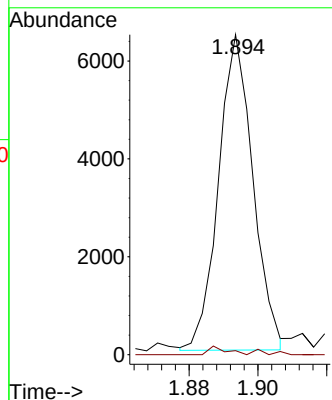
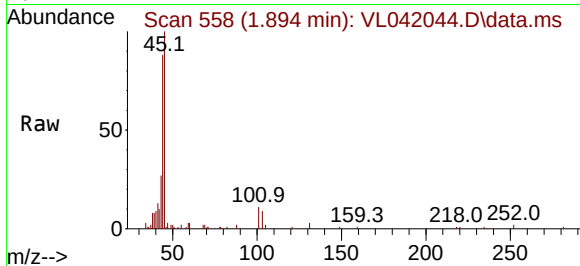
#19
Isopropyl Alcohol
Concen: 0.303 ppbv
RT: 1.894 min Scan# 558
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 45 Resp: 448
Ion Ratio Lower Upper
45 100
58 0.0 35.3 52.9

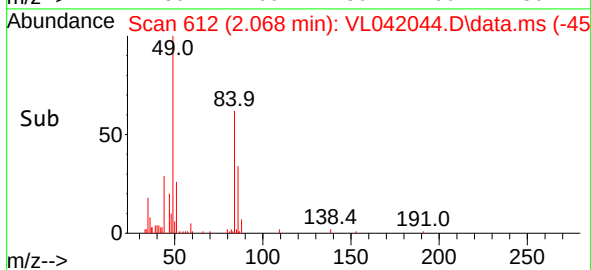
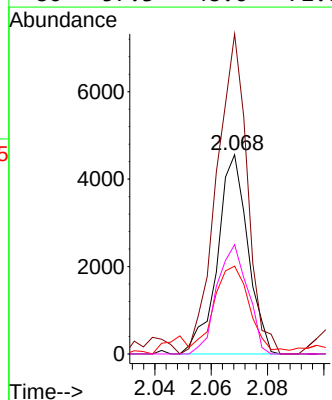
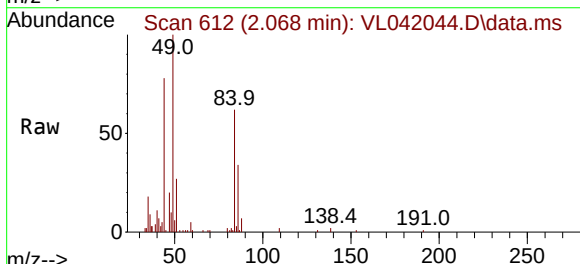
Manual Integrations
APPROVED

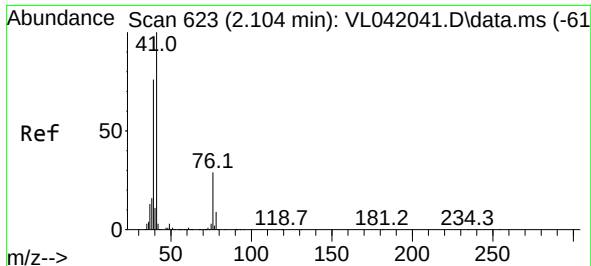
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#20
Methylene Chloride
Concen: 0.345 ppbv
RT: 2.068 min Scan# 612
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

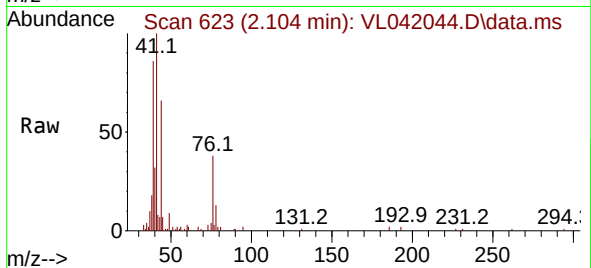
Tgt Ion: 84 Resp: 3423
Ion Ratio Lower Upper
84 100
49 160.7 130.0 195.0
51 41.5 37.4 56.0
86 57.3 48.6 72.8





#21
 Allyl Chloride
 Concen: 0.296 ppbv
 RT: 2.104 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: VL042044.D
 Acq: 25 Feb 2025 10:31

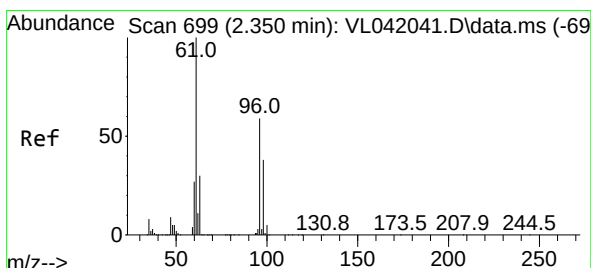
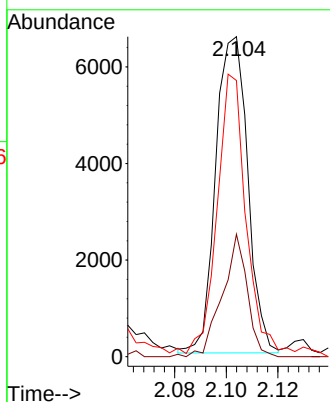
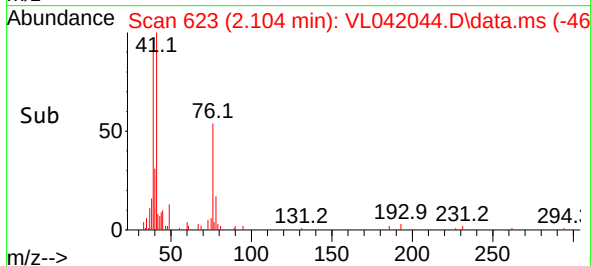
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



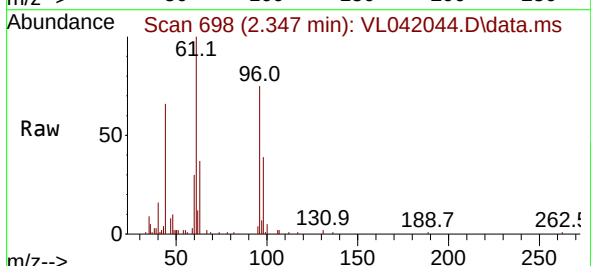
Tgt Ion: 41 Resp: 5640
 Ion Ratio Lower Upper
 41 100
 76 30.2 23.8 35.6
 39 79.8 63.8 95.6

Manual Integrations
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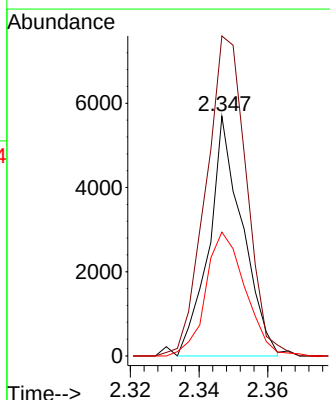
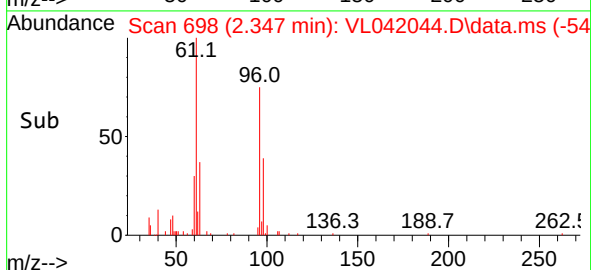
Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025

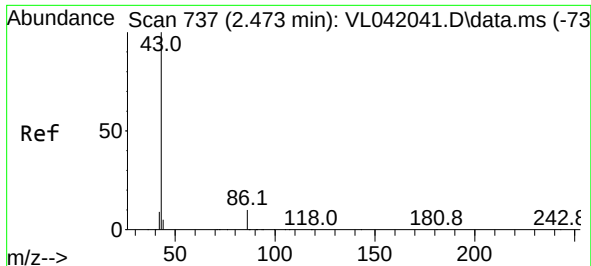


#22
 trans-1,2-Dichloroethene
 Concen: 0.343 ppbv m
 RT: 2.347 min Scan# 698
 Delta R.T. -0.003 min
 Lab File: VL042044.D
 Acq: 25 Feb 2025 10:31



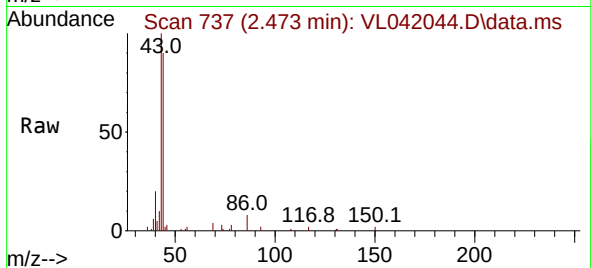
Tgt Ion: 96 Resp: 3838
 Ion Ratio Lower Upper
 96 100
 61 133.5 136.6 205.0#
 98 51.7 51.8 77.6#





#23
 Vinyl Acetate
 Concen: 0.385 ppbv
 RT: 2.473 min Scan# 737
 Delta R.T. -0.000 min
 Lab File: VL042044.D
 Acq: 25 Feb 2025 10:31

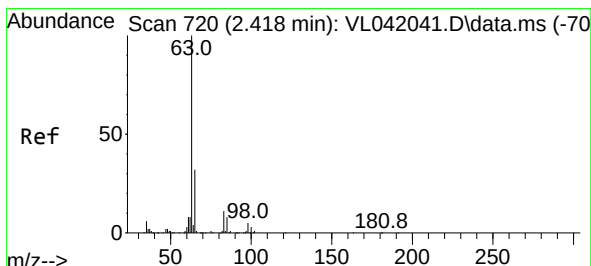
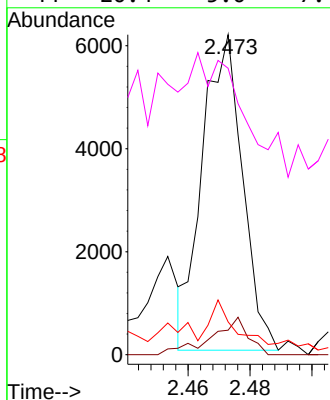
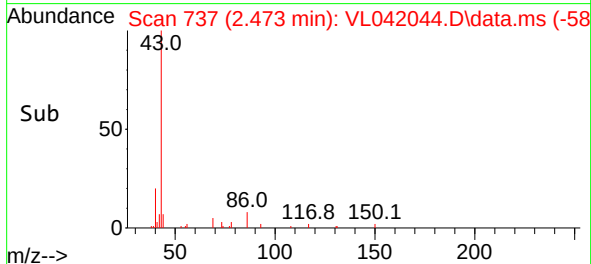
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



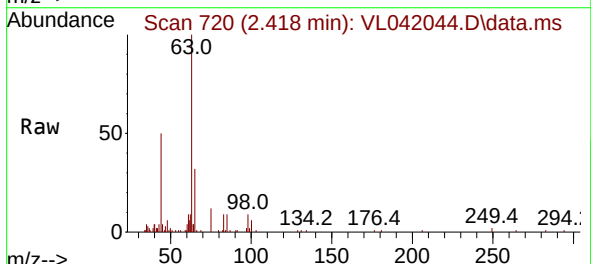
Tgt Ion: 43 Resp: 5499
 Ion Ratio Lower Upper
 43 100
 86 7.8 7.0 10.4
 42 6.8 7.6 11.4
 44 20.4 5.0 7.4#

Manual Integrations
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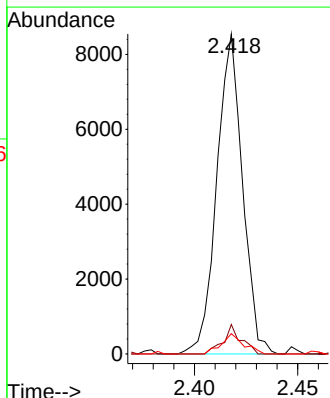
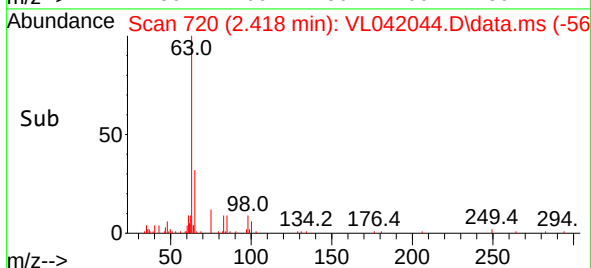
Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025

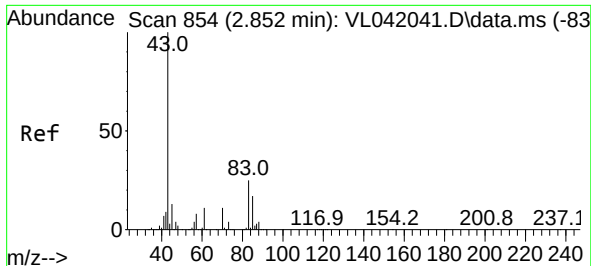


#24
 1,1-Dichloroethane
 Concen: 0.326 ppbv
 RT: 2.418 min Scan# 720
 Delta R.T. -0.000 min
 Lab File: VL042044.D
 Acq: 25 Feb 2025 10:31



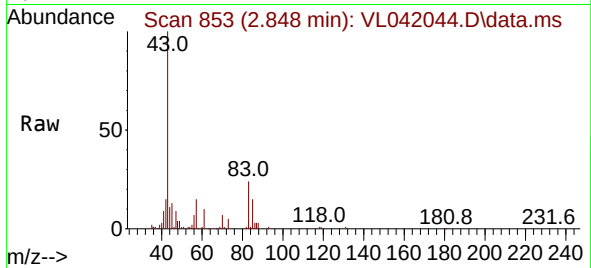
Tgt Ion: 63 Resp: 7396
 Ion Ratio Lower Upper
 63 100
 98 9.2 2.4 7.2#
 100 6.4 1.7 5.0#





#25
Ethyl Acetate
Concen: 0.423 ppbv
RT: 2.848 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

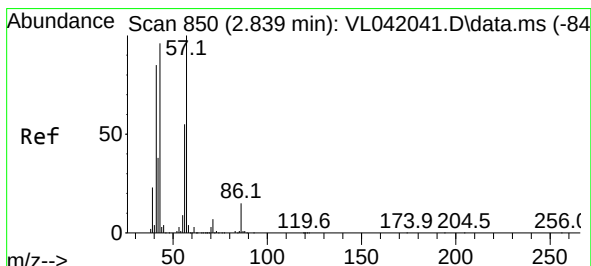
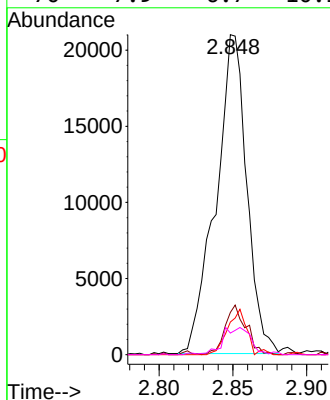
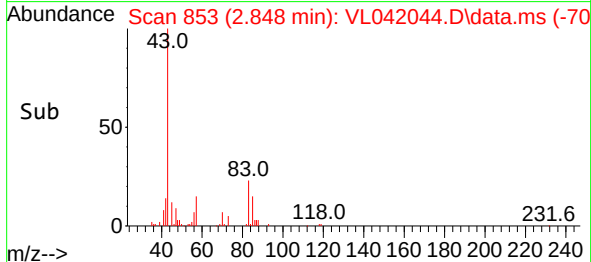
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



Tgt Ion: 43 Resp: 3059
Ion Ratio Lower Upper
43 100
45 11.3 8.1 12.1
61 9.2 7.2 10.8
70 7.9 6.7 10.1

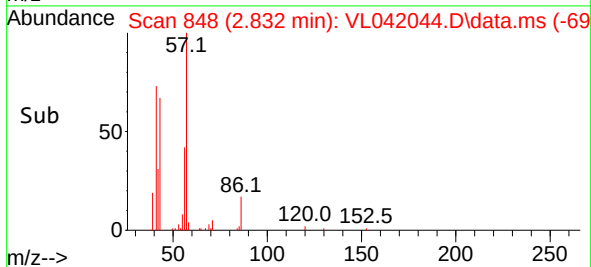
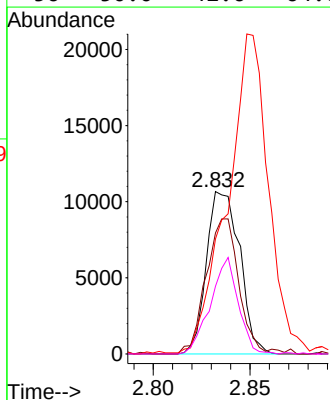
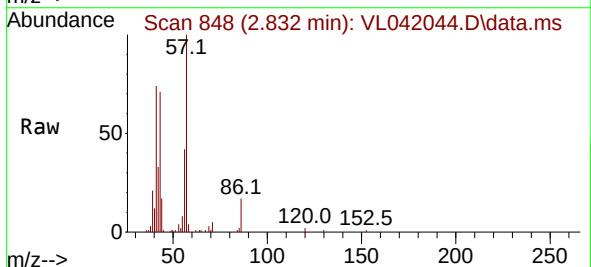
Manual Integrations
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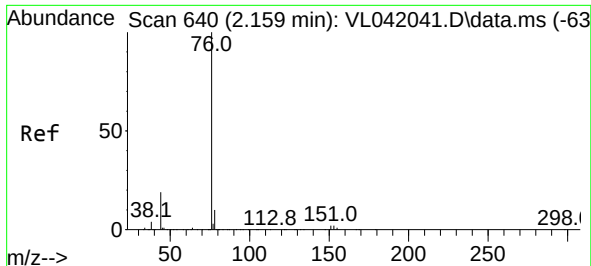
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#26
Hexane
Concen: 0.439 ppbv
RT: 2.832 min Scan# 848
Delta R.T. -0.007 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

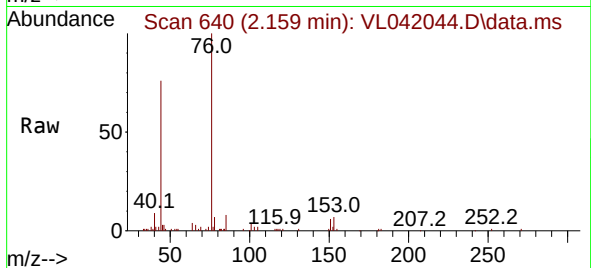
Tgt Ion: 57 Resp: 12739
Ion Ratio Lower Upper
57 100
41 83.6 70.6 106.0
43 250.3 199.4 299.0
56 50.0 42.6 64.0





#27
Carbon Disulfide
Concen: 0.305 ppbv
RT: 2.159 min Scan# 640
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

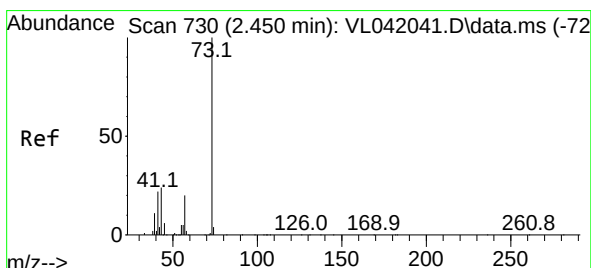
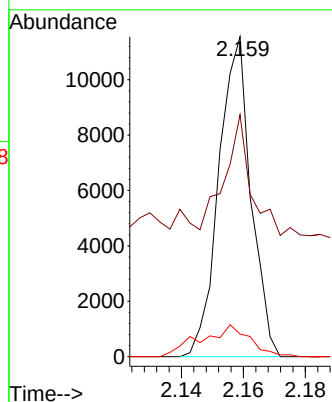
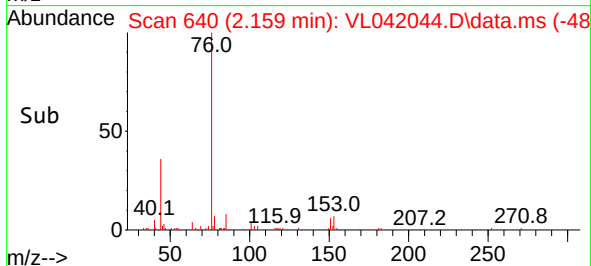
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



Tgt Ion: 76 Resp: 8310
Ion Ratio Lower Upper
76 100
44 79.6 16.2 24.2
78 15.2 9.4 14.0

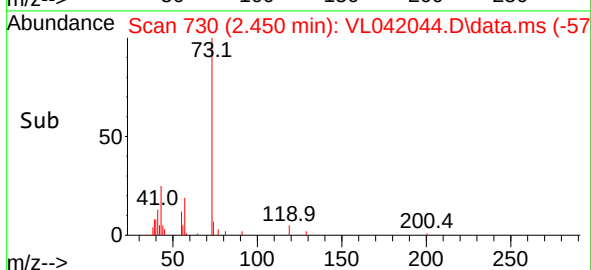
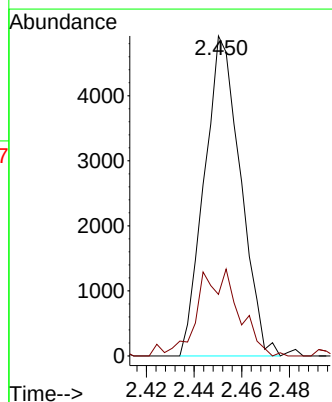
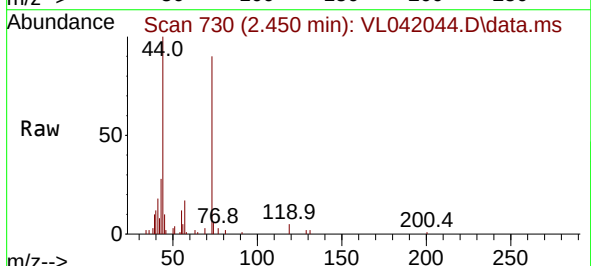
Manual Integrations
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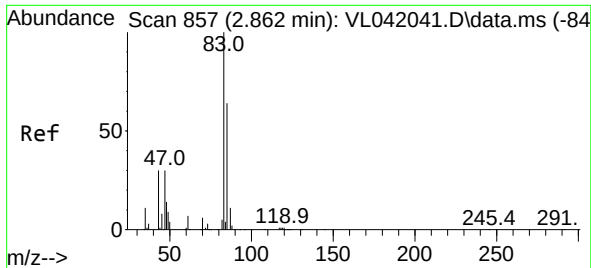
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#28
Methyl tert-Butyl Ether
Concen: 0.292 ppbv
RT: 2.450 min Scan# 730
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

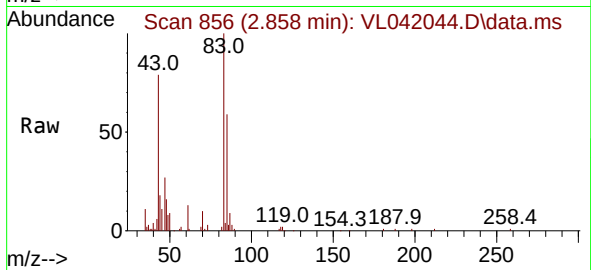
Tgt Ion: 73 Resp: 5185
Ion Ratio Lower Upper
73 100
57 31.8 17.7 26.5





#29
Chloroform
Concen: 0.411 ppbv
RT: 2.858 min Scan# 856
Delta R.T. -0.004 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

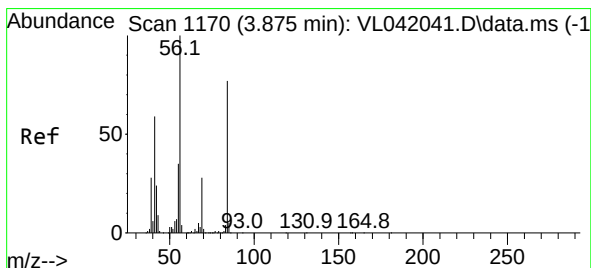
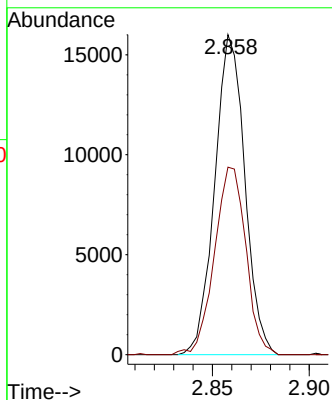
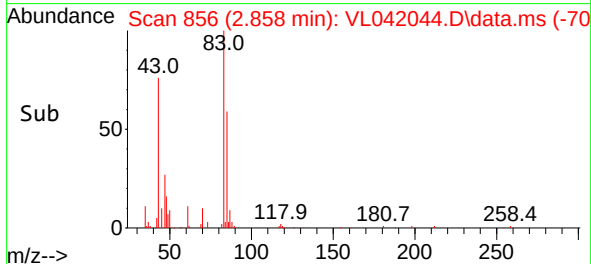
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



Tgt Ion: 83 Resp: 17278
Ion Ratio Lower Upper
83 100
85 58.6 51.2 76.8

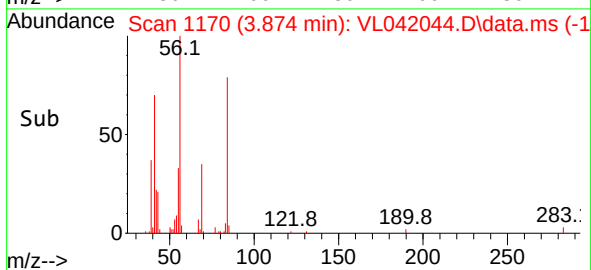
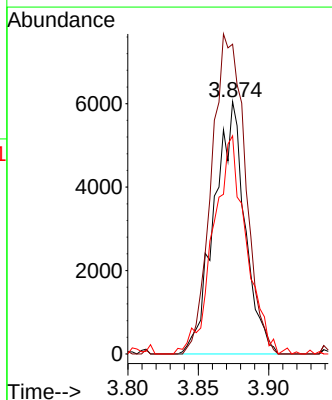
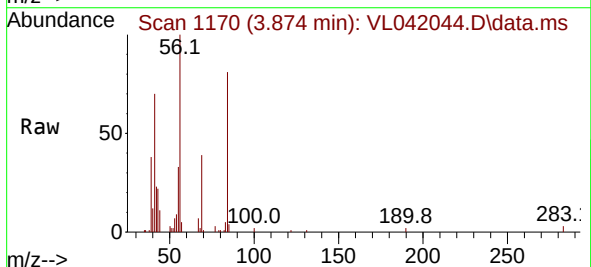
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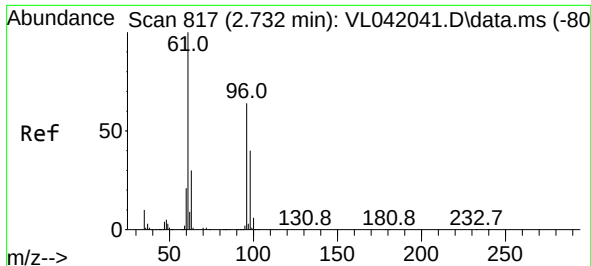
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#30
Cyclohexane
Concen: 0.391 ppbv
RT: 3.874 min Scan# 1170
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 84 Resp: 9209
Ion Ratio Lower Upper
84 100
56 138.5 101.5 152.3
41 92.4 62.6 93.8





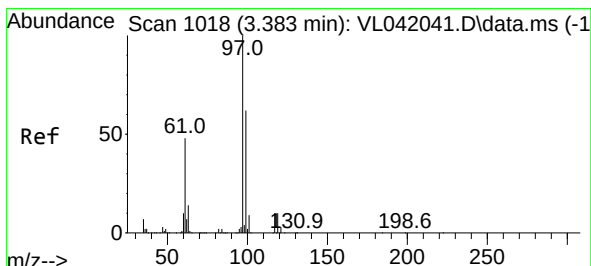
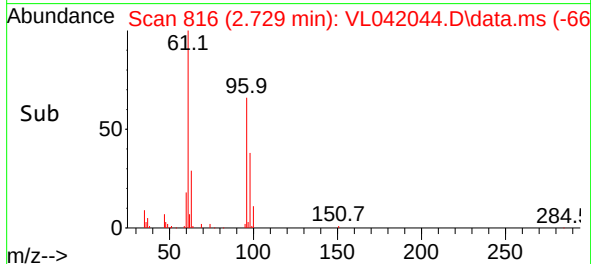
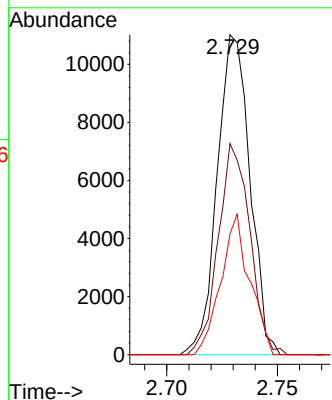
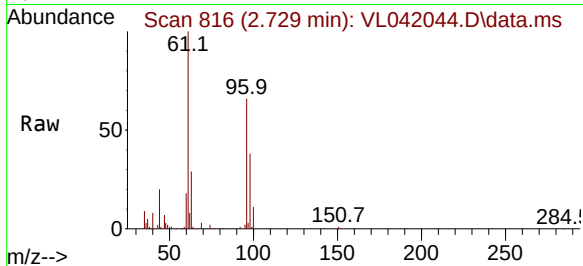
#31
 cis-1,2-Dichloroethene
 Concen: 0.395 ppbv
 RT: 2.729 min Scan# 817
 Delta R.T. -0.004 min
 Lab File: VL042044.D
 Acq: 25 Feb 2025 10:31

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion: 61 Resp: 11344
 Ion Ratio Lower Upper
 61 100
 96 66.0 51.5 77.3
 98 37.7 32.0 48.0

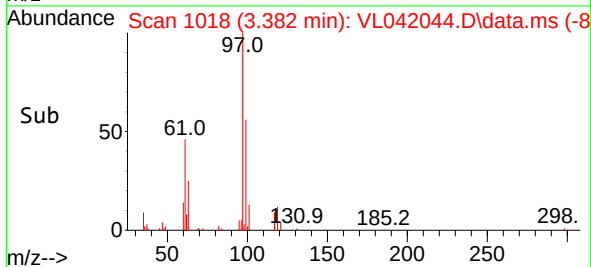
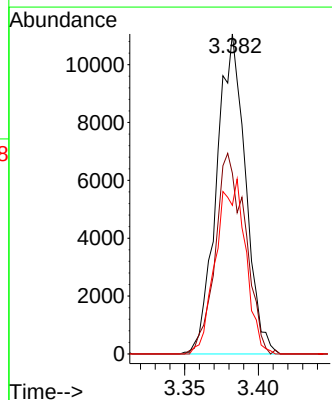
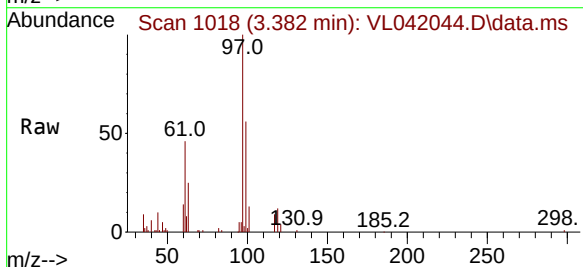
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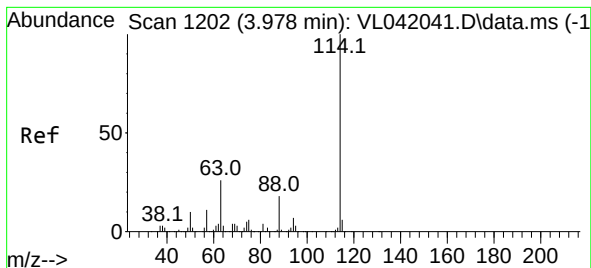
Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025



#32
 1,1,1-Trichloroethane
 Concen: 0.322 ppbv
 RT: 3.382 min Scan# 1018
 Delta R.T. -0.000 min
 Lab File: VL042044.D
 Acq: 25 Feb 2025 10:31

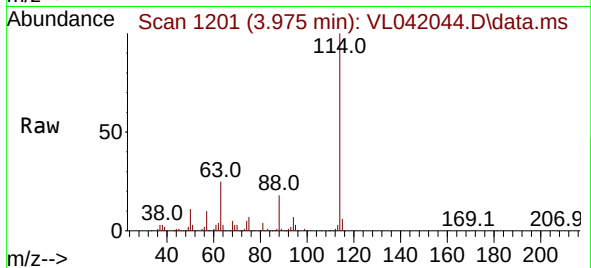
Tgt Ion: 97 Resp: 15027
 Ion Ratio Lower Upper
 97 100
 99 65.0 49.8 74.6
 61 55.9 38.9 58.3





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.975 min Scan# 114
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

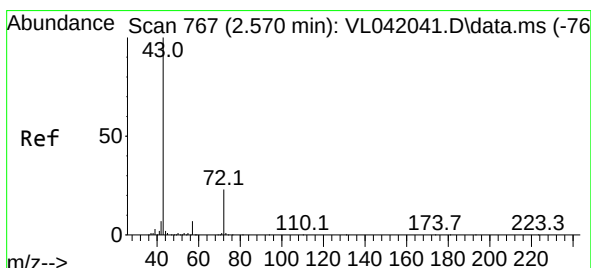
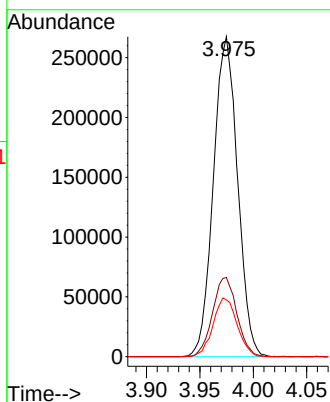
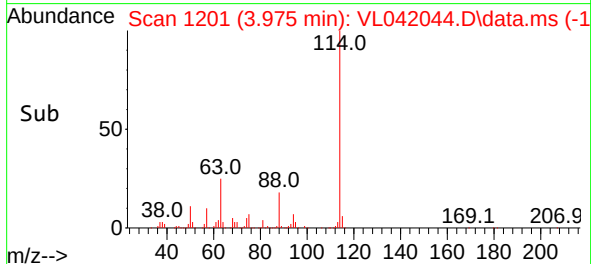
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



Tgt Ion:114 Resp: 421340
Ion Ratio Lower Upper
114 100
63 24.9 20.1 30.1
88 18.3 14.3 21.5

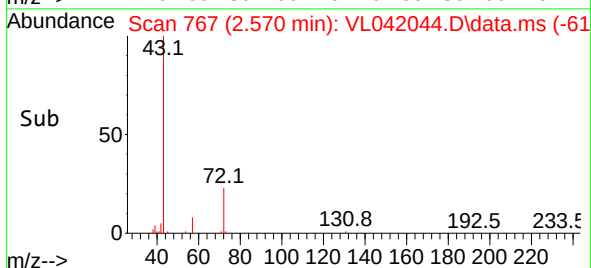
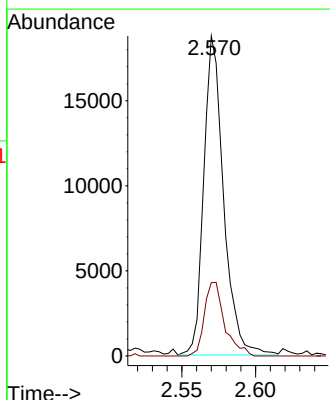
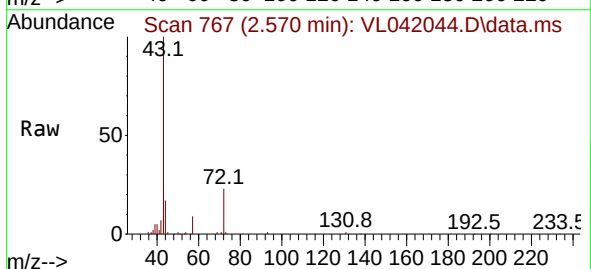
Manual Integrations
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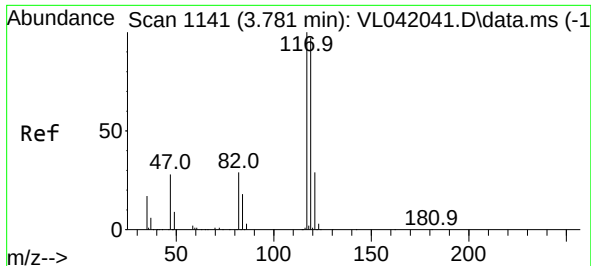
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#34
2-Butanone
Concen: 0.484 ppbv
RT: 2.570 min Scan# 767
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 43 Resp: 17555
Ion Ratio Lower Upper
43 100
72 23.4 18.5 27.7





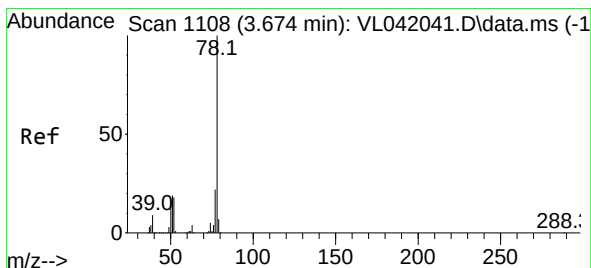
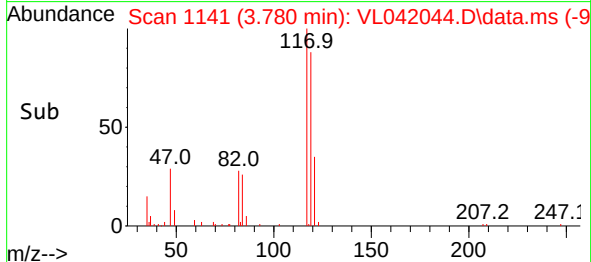
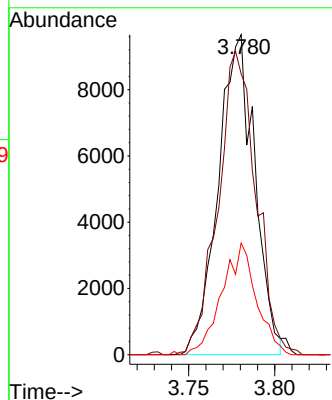
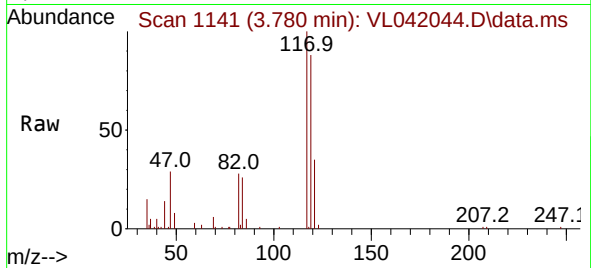
#35
Carbon Tetrachloride
Concen: 0.348 ppbv
RT: 3.780 min Scan# 1141
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion:117 Resp: 1422
Ion Ratio Lower Upper
117 100
119 87.0 77.8 116.8
121 34.8 23.4 35.0

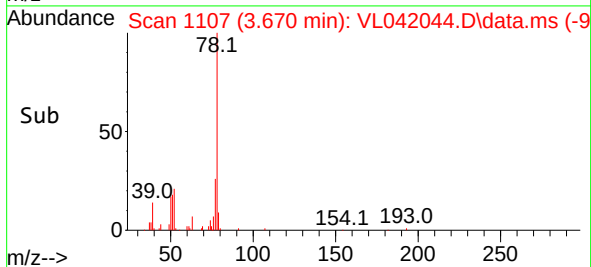
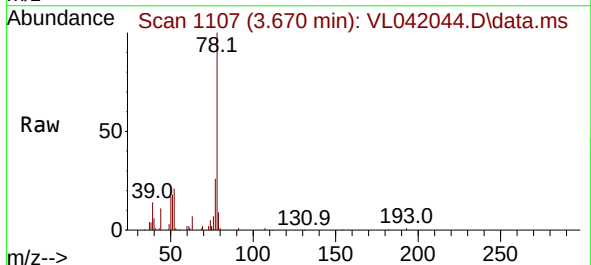
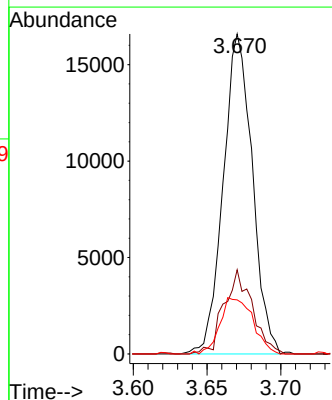
Manual Integrations
APPROVED

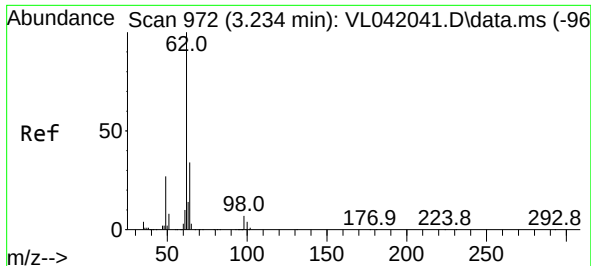
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#36
Benzene
Concen: 0.445 ppbv
RT: 3.670 min Scan# 1107
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 78 Resp: 22728
Ion Ratio Lower Upper
78 100
77 26.3 17.7 26.5
50 16.9 13.9 20.9





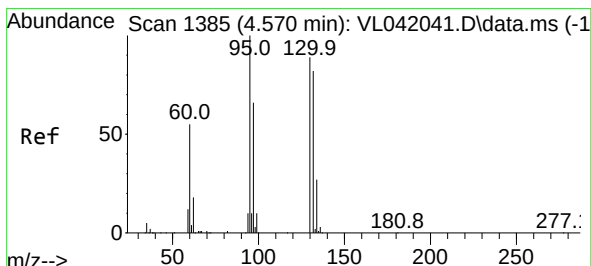
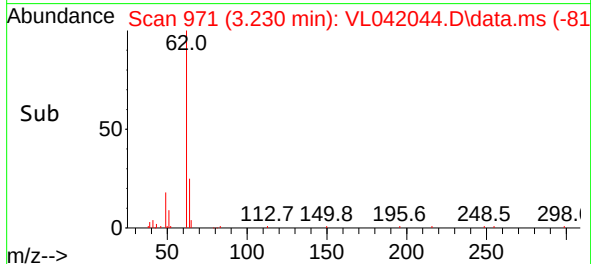
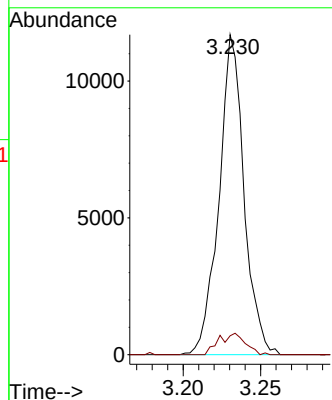
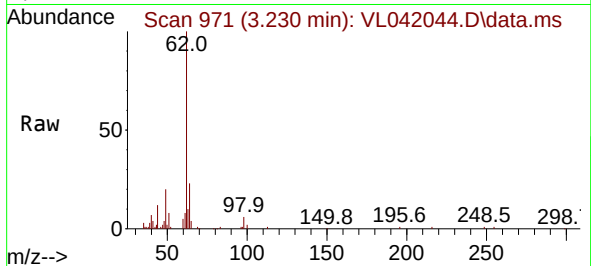
#37
1,2-Dichloroethane
Concen: 0.452 ppbv
RT: 3.230 min Scan# 91
Delta R.T. -0.004 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 62 Resp: 1314
Ion Ratio Lower Upper
62 100
98 7.1 5.7 8.5

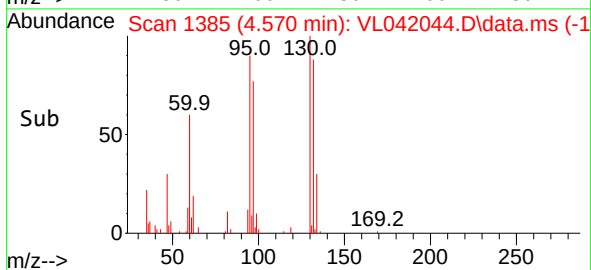
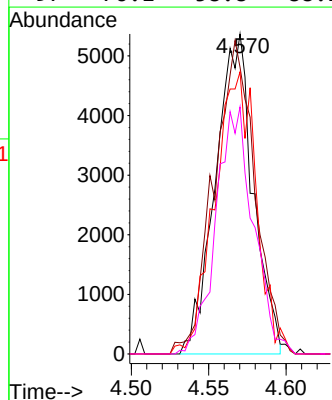
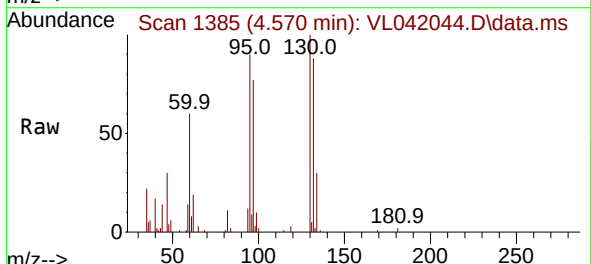
Manual Integrations
APPROVED

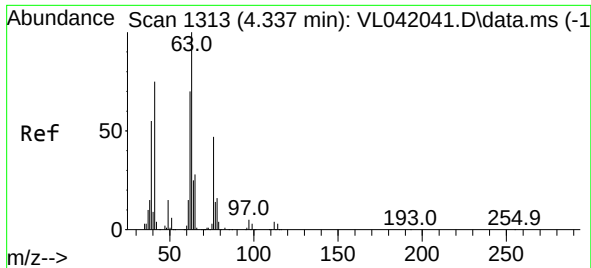
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#38
Trichloroethene
Concen: 0.440 ppbv
RT: 4.570 min Scan# 1385
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion:130 Resp: 9115
Ion Ratio Lower Upper
130 100
95 86.1 89.5 134.3#
132 85.3 73.8 110.6
97 76.1 58.8 88.2





#39

1,2-Dichloropropane

Concen: 0.474 ppbv m

RT: 4.331 min Scan# 11

Delta R.T. -0.007 min

Lab File: VL042044.D

Acq: 25 Feb 2025 10:31

Instrument :

MSVOA_L

ClientSampleId :

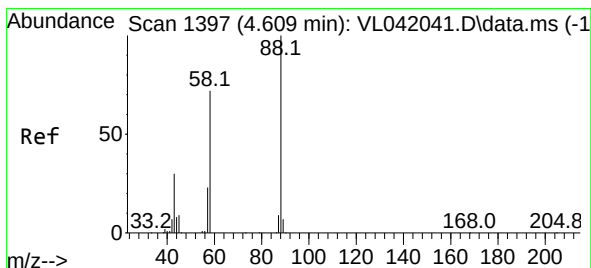
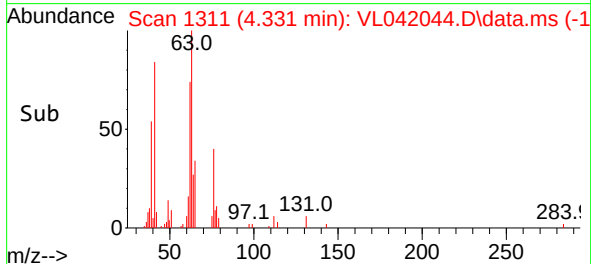
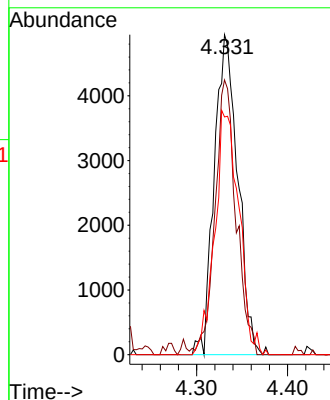
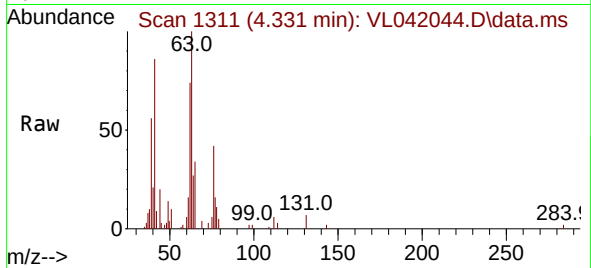
VSTDICC0.5

Tgt Ion:	63	Resp:	887
Ion	Ratio	Lower	Upper
63	100		
41	85.9	60.1	90.1
62	74.3	55.8	83.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#40

1,4-Dioxane

Concen: 0.416 ppbv m

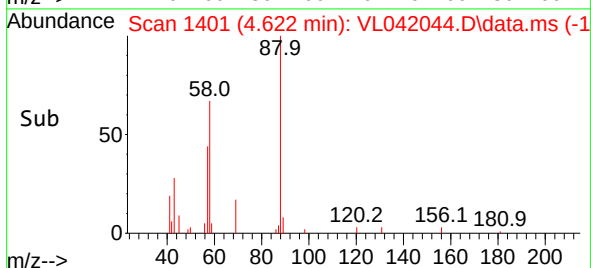
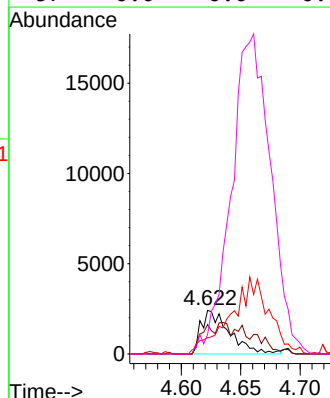
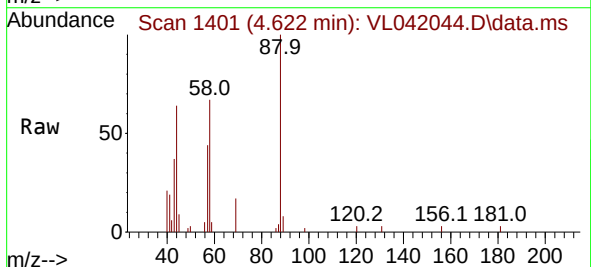
RT: 4.622 min Scan# 1401

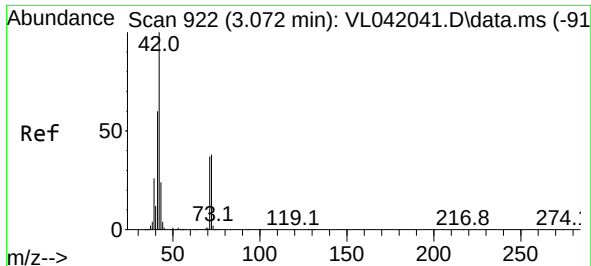
Delta R.T. 0.013 min

Lab File: VL042044.D

Acq: 25 Feb 2025 10:31

Tgt Ion:	88	Resp:	4046
Ion	Ratio	Lower	Upper
88	100		
58	117.8	62.6	94.0
43	0.0	0.0	0.0
57	0.0	0.0	0.0





#41

Tetrahydrofuran

Concen: 0.477 ppbv

RT: 3.078 min Scan# 91

Delta R.T. 0.006 min

Lab File: VL042044.D

Acq: 25 Feb 2025 10:31

Instrument :

MSVOA_L

ClientSampleId :

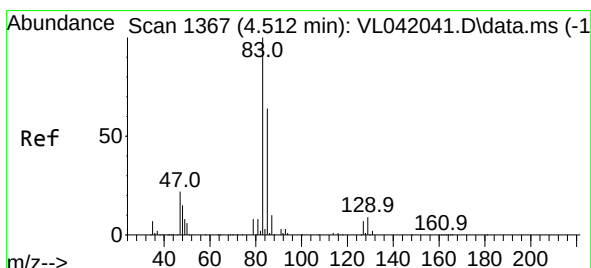
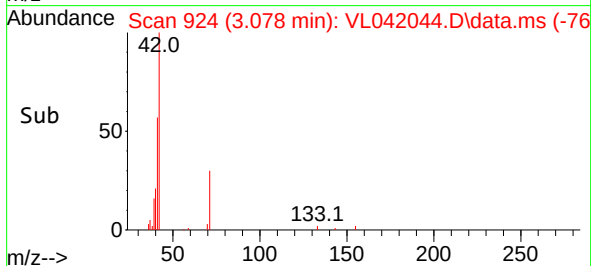
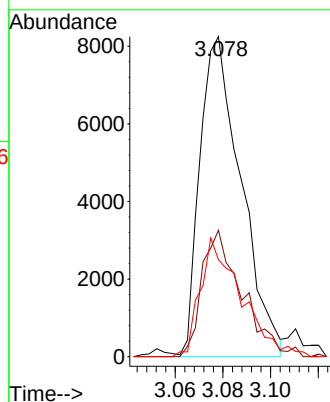
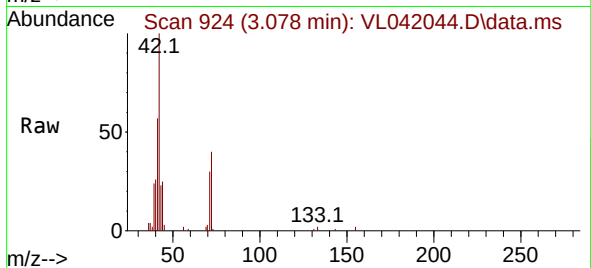
VSTDIC0.5

Tgt Ion: 42	Resp: 9880
Ion Ratio	Lower Upper
42 100	
72 38.7	30.2 45.2
71 37.0	28.2 42.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#42

Bromodichloromethane

Concen: 0.431 ppbv

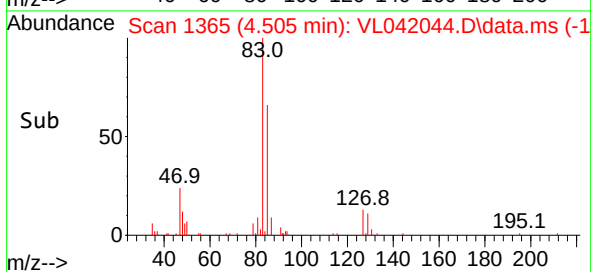
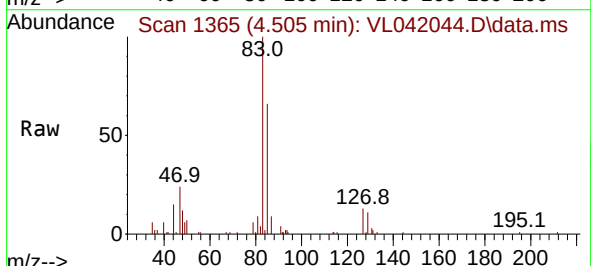
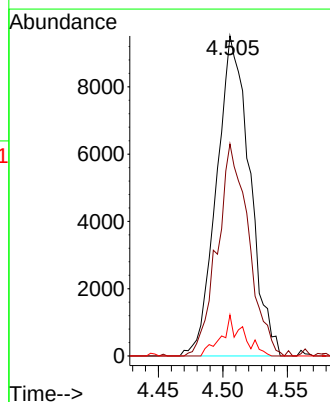
RT: 4.505 min Scan# 1365

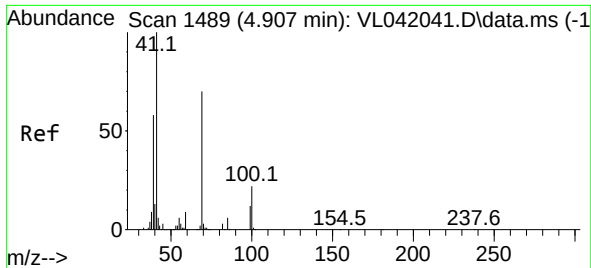
Delta R.T. -0.007 min

Lab File: VL042044.D

Acq: 25 Feb 2025 10:31

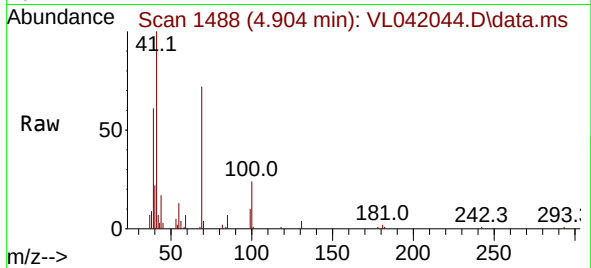
Tgt Ion: 83	Resp: 16973
Ion Ratio	Lower Upper
83 100	
85 66.3	51.4 77.2
127 12.8	5.8 8.6





#43
Methyl Methacrylate
Concen: 0.362 ppbv
RT: 4.904 min Scan# 1488
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

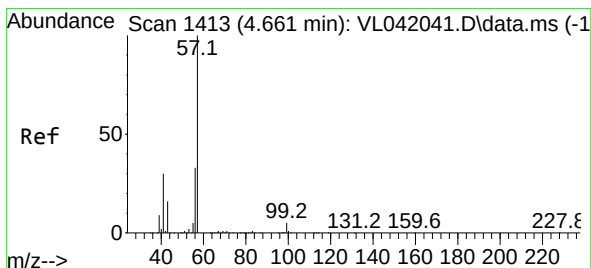
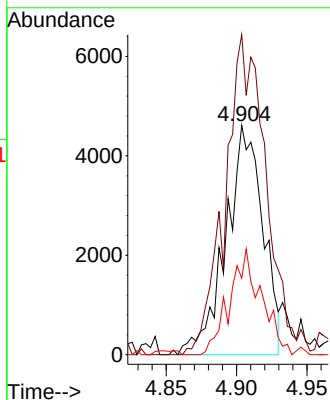
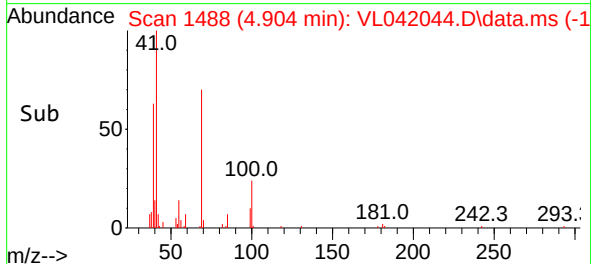
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



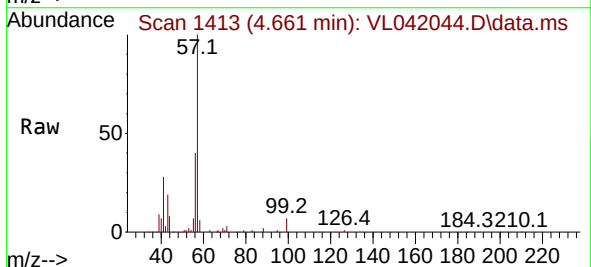
Tgt Ion: 69 Resp: 8428
Ion Ratio Lower Upper
69 100
41 154.6 118.2 177.4
100 40.2 27.0 40.4

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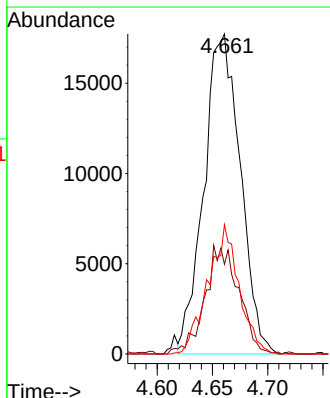
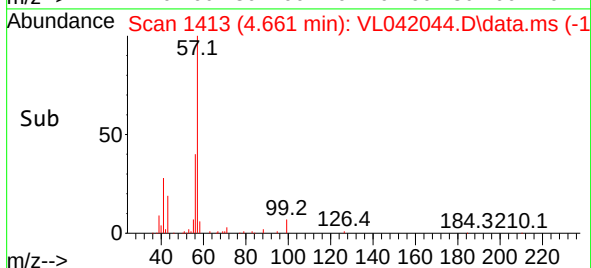
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

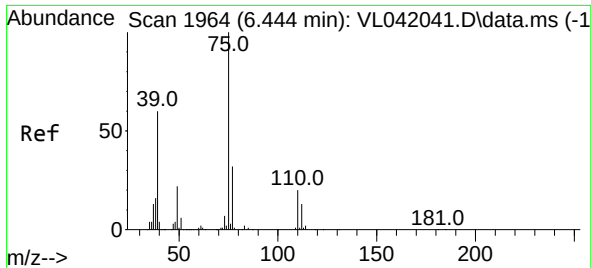


#44
2,2,4-Trimethylpentane
Concen: 0.469 ppbv
RT: 4.661 min Scan# 1413
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31



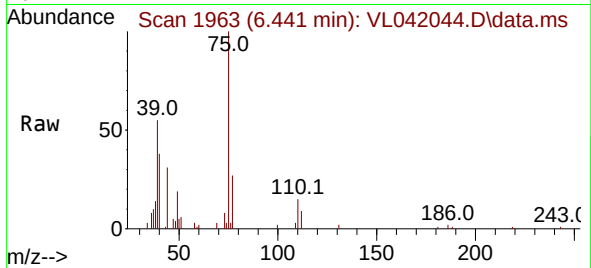
Tgt Ion: 57 Resp: 40623
Ion Ratio Lower Upper
57 100
41 32.0 24.4 36.6
56 34.1 26.5 39.7





#45
 t-1,3-Dichloropropene
 Concen: 0.397 ppbv m
 RT: 6.441 min Scan# 1964
 Delta R.T. -0.003 min
 Lab File: VL042044.D
 Acq: 25 Feb 2025 10:31

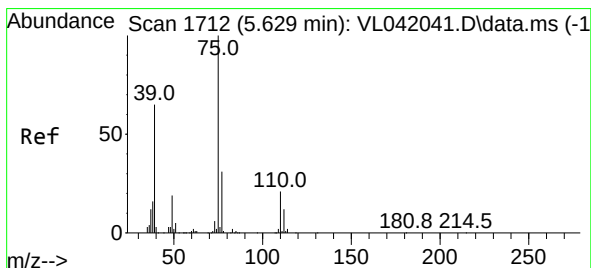
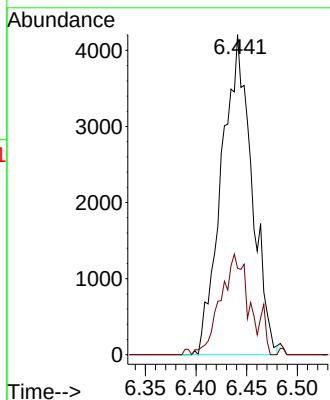
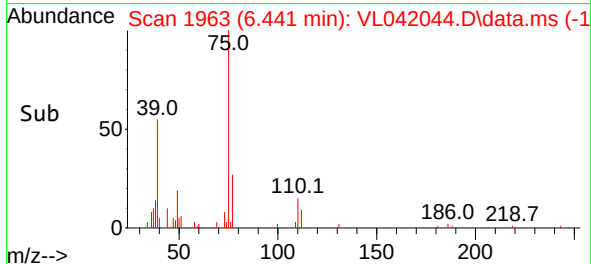
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



Tgt Ion: 75 Resp: 8720
 Ion Ratio Lower Upper
 75 100
 77 27.0 25.9 38.9

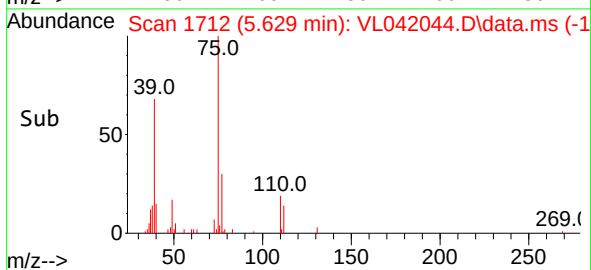
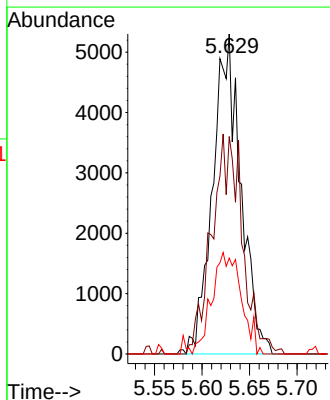
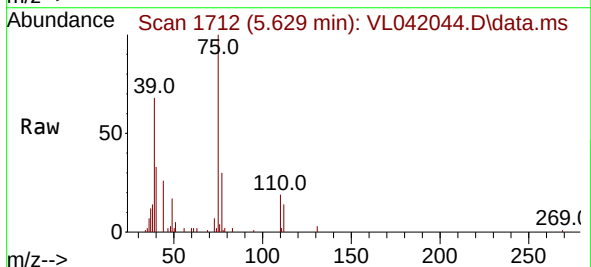
Manual Integrations
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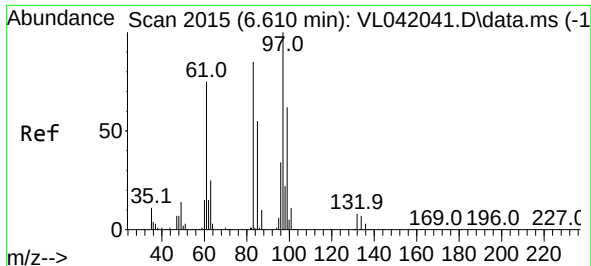
Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025



#46
 cis-1,3-Dichloropropene
 Concen: 0.389 ppbv m
 RT: 5.629 min Scan# 1712
 Delta R.T. -0.000 min
 Lab File: VL042044.D
 Acq: 25 Feb 2025 10:31

Tgt Ion: 75 Resp: 10834
 Ion Ratio Lower Upper
 75 100
 39 68.0 51.9 77.9
 77 29.9 24.9 37.3





#47

1,1,2-Trichloroethane

Concen: 0.456 ppbv m

RT: 6.609 min Scan# 2015

Delta R.T. -0.000 min

Lab File: VL042044.D

Acq: 25 Feb 2025 10:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

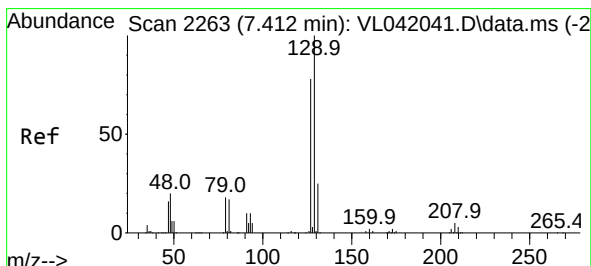
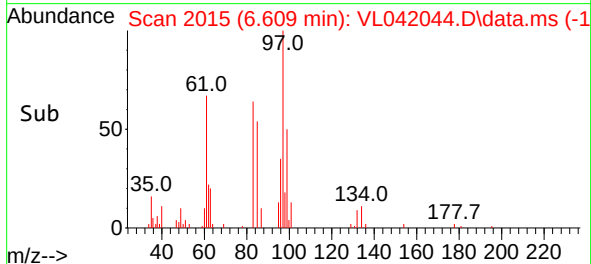
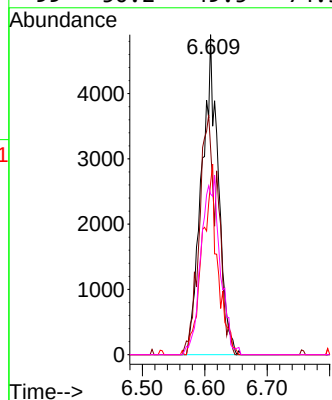
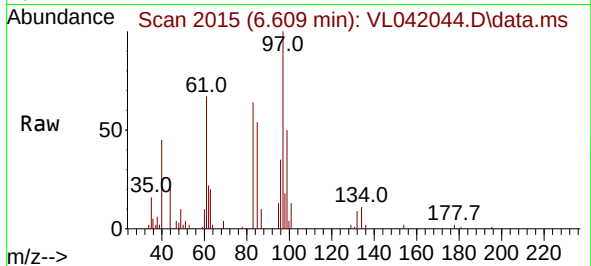
Tgt Ion: 97	Resp: 898
Ion Ratio	Lower Upper
97 100	
83 64.5	68.1 102.1
85 53.7	44.0 66.0
99 50.2	49.5 74.3

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 02/26/2025

Supervised By :Mahesh Dadoda 02/26/2025



#48

Dibromochloromethane

Concen: 0.395 ppbv m

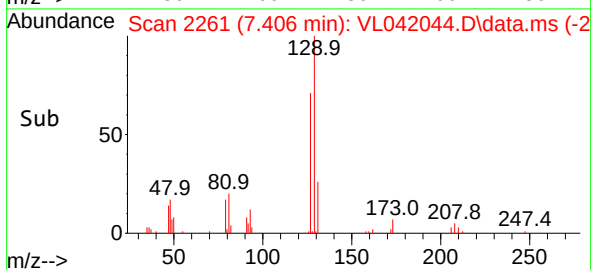
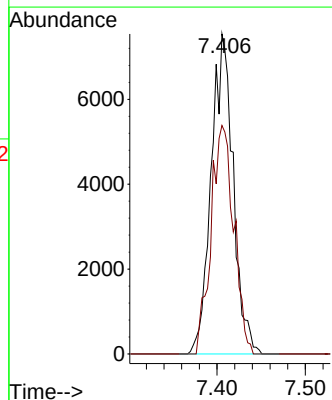
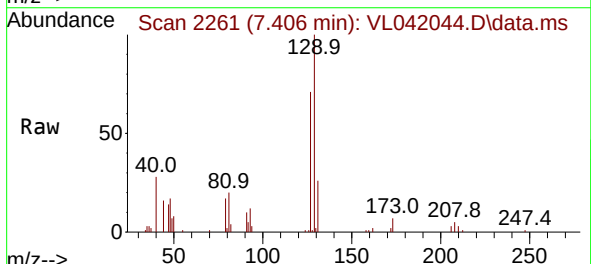
RT: 7.406 min Scan# 2261

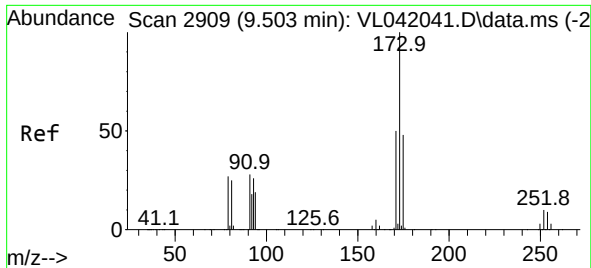
Delta R.T. -0.007 min

Lab File: VL042044.D

Acq: 25 Feb 2025 10:31

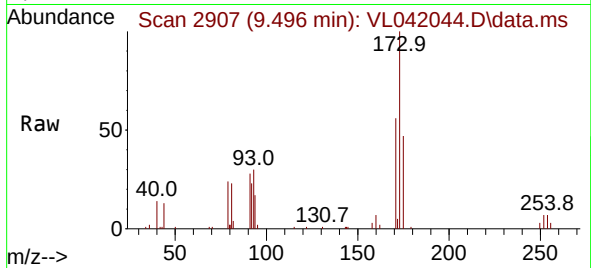
Tgt Ion:129	Resp: 13014
Ion Ratio	Lower Upper
129 100	
127 74.1	38.6 115.8





#49
Bromoform
Concen: 0.430 ppbv
RT: 9.496 min Scan# 2909
Delta R.T. -0.007 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

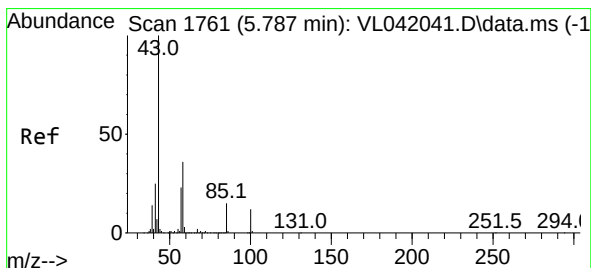
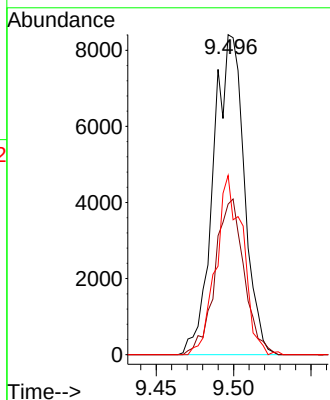
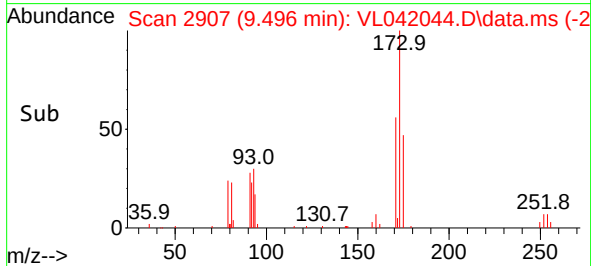
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



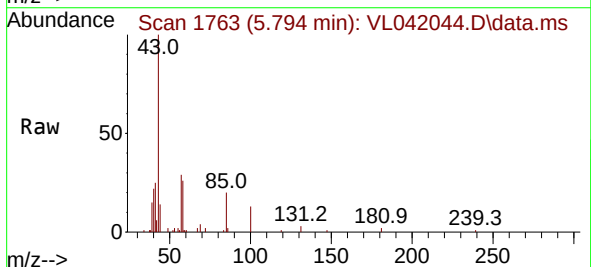
Tgt Ion:173 Resp: 11640
Ion Ratio Lower Upper
173 100
175 46.0 38.3 57.5
171 48.8 40.2 60.2

Manual Integrations
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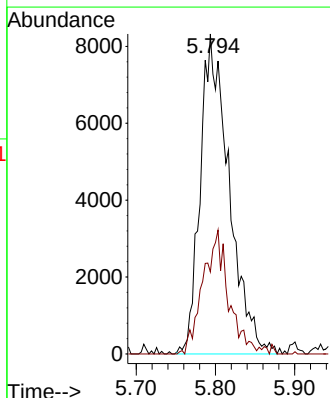
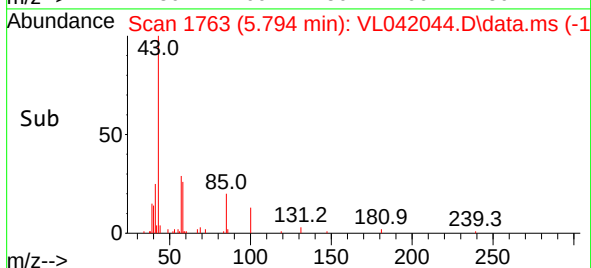
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

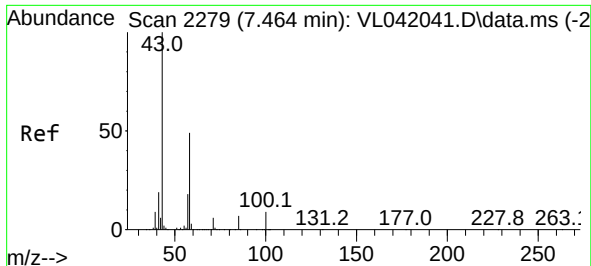


#50
4-Methyl-2-Pentanone
Concen: 0.377 ppbv m
RT: 5.794 min Scan# 1763
Delta R.T. 0.006 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31



Tgt Ion: 43 Resp: 20992
Ion Ratio Lower Upper
43 100
58 0.0 29.3 43.9#





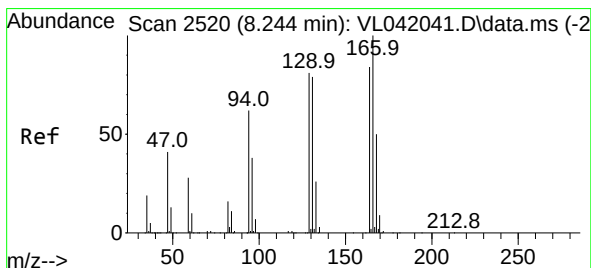
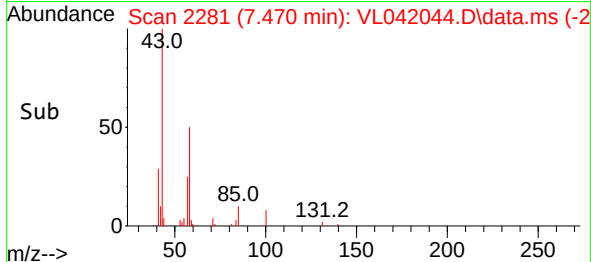
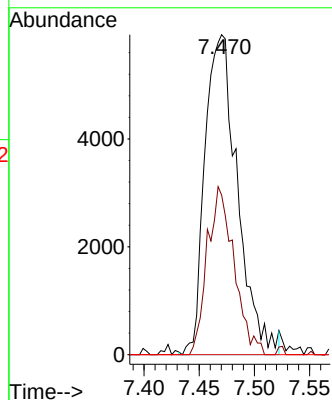
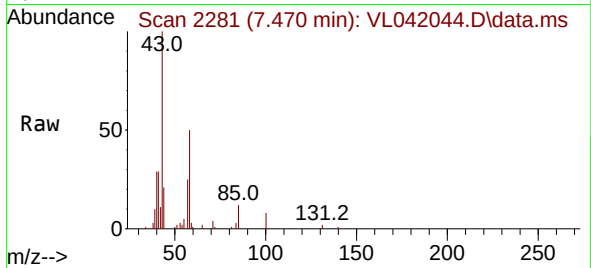
#51
2-Hexanone
Concen: 0.267 ppbv m
RT: 7.470 min Scan# 2119
Delta R.T. 0.006 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 43 Resp: 12149
Ion Ratio Lower Upper
43 100
58 43.7 39.0 58.6
98 0.0 0.1 0.1

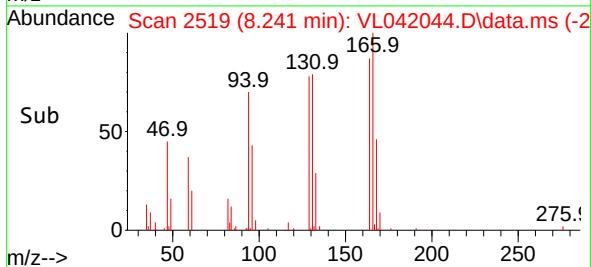
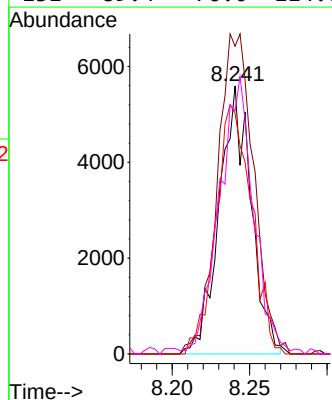
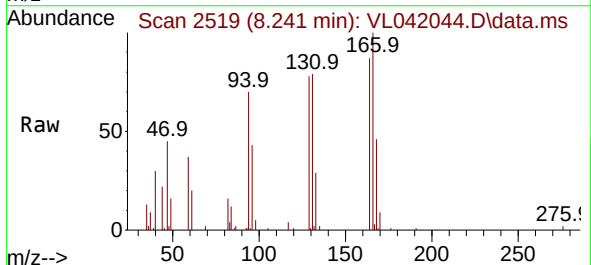
Manual Integrations
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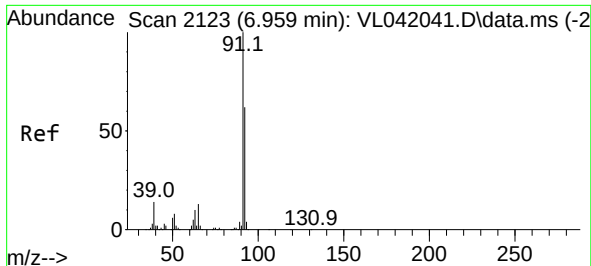
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#52
Tetrachloroethene
Concen: 0.450 ppbv
RT: 8.241 min Scan# 2519
Delta R.T. -0.004 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion:164 Resp: 8012
Ion Ratio Lower Upper
164 100
166 114.8 95.7 143.5
129 89.8 77.1 115.7
131 89.4 76.0 114.0





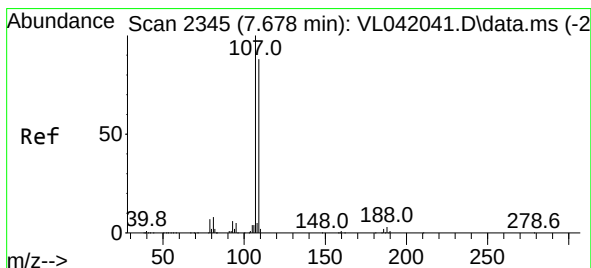
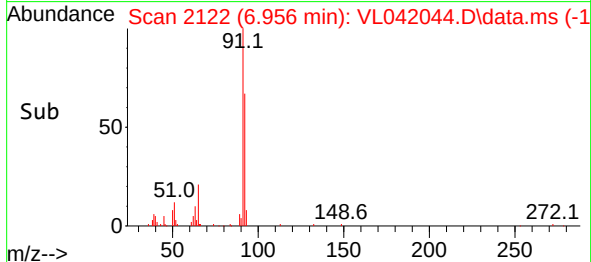
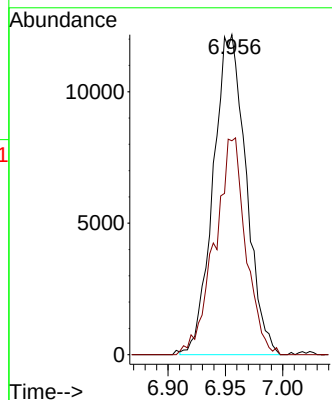
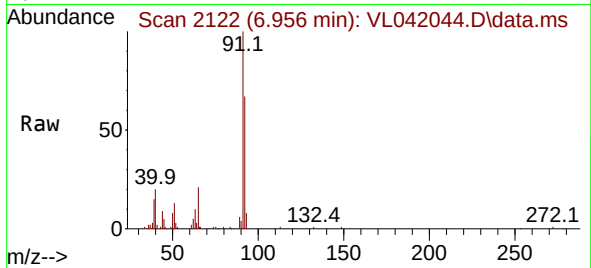
#53
Toluene
Concen: 0.398 ppbv
RT: 6.956 min Scan# 2122
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 91 Resp: 24224
Ion Ratio Lower Upper
91 100
92 64.4 49.0 73.6

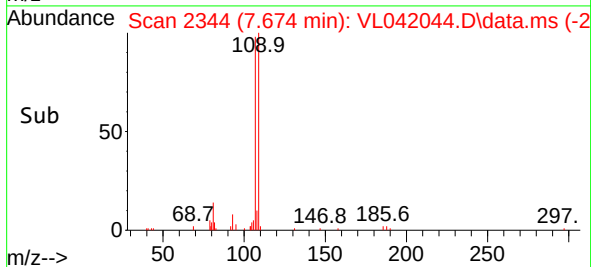
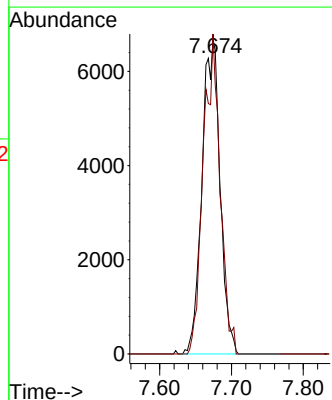
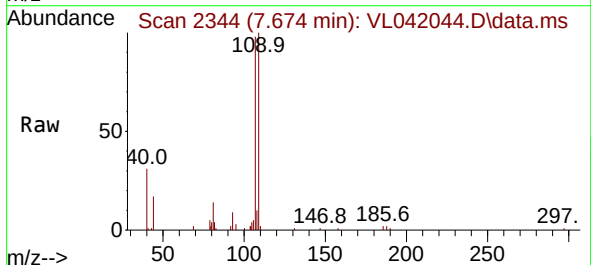
Manual Integrations
APPROVED

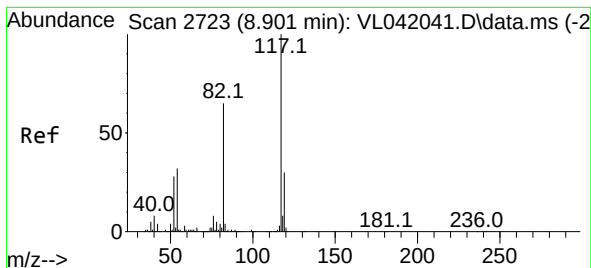
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#54
1,2-Dibromoethane
Concen: 0.432 ppbv m
RT: 7.674 min Scan# 2344
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion:107 Resp: 11718
Ion Ratio Lower Upper
107 100
109 101.6 70.2 105.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.898 min Scan# 21

Delta R.T. -0.003 min

Lab File: VL042044.D

Acq: 25 Feb 2025 10:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5

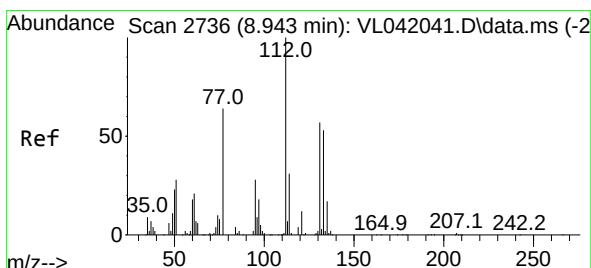
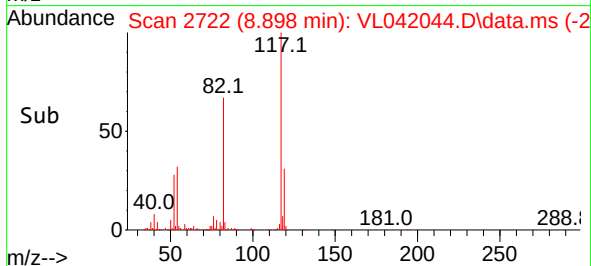
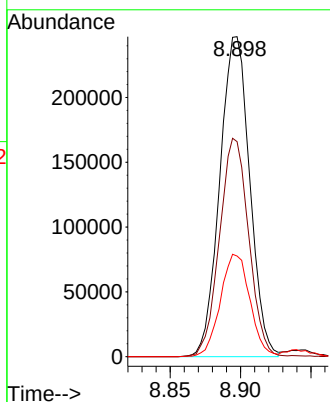
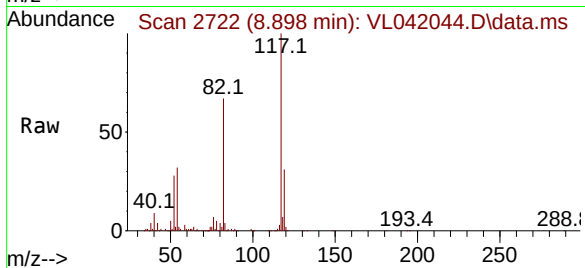
Tgt Ion:117 Resp: 365954

Ion	Ratio	Lower	Upper
117	100		
82	66.8	55.0	82.6
119	33.5	25.9	38.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#56

1,1,1,2-Tetrachloroethane

Concen: 0.424 ppbv

RT: 8.940 min Scan# 2735

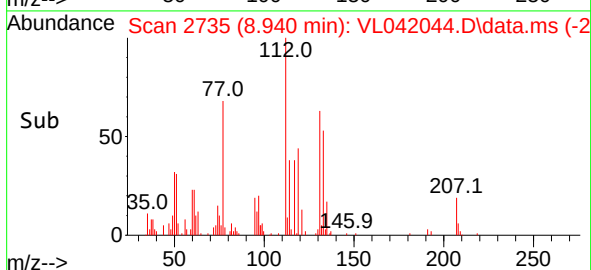
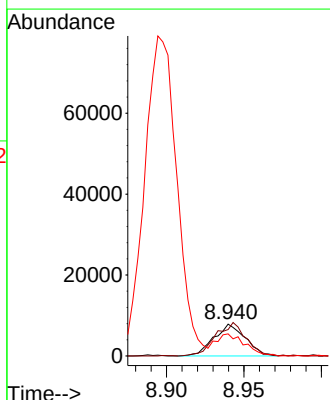
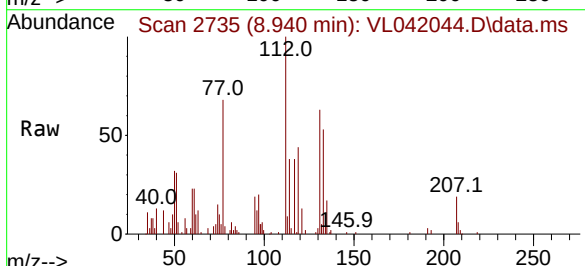
Delta R.T. -0.003 min

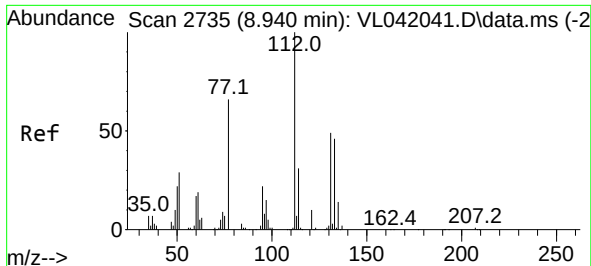
Lab File: VL042044.D

Acq: 25 Feb 2025 10:31

Tgt Ion:131 Resp: 11100

Ion	Ratio	Lower	Upper
131	100		
133	103.4	75.8	113.8
119	0.0	52.1	78.1#





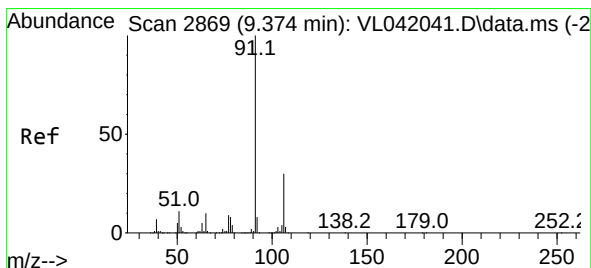
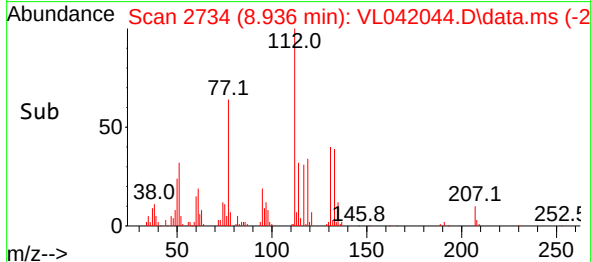
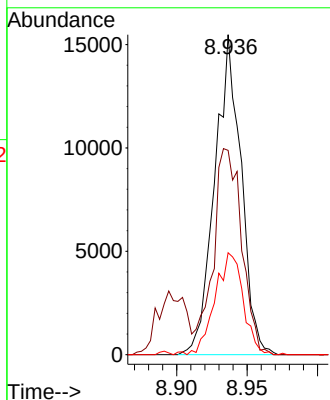
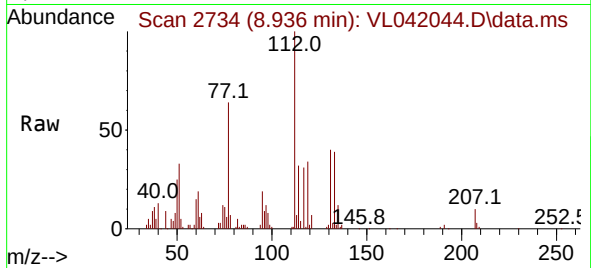
#57
Chlorobenzene
Concen: 0.468 ppbv
RT: 8.936 min Scan# 216
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion:112 Resp: 2016
Ion Ratio Lower Upper
112 100
77 63.8 53.4 80.2
114 31.9 28.3 34.5

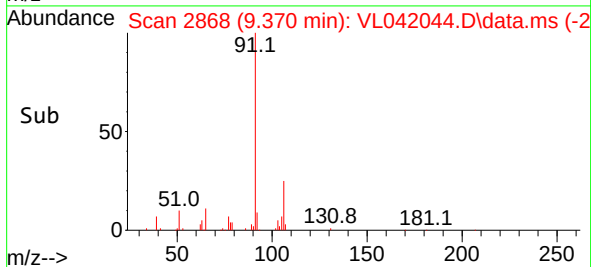
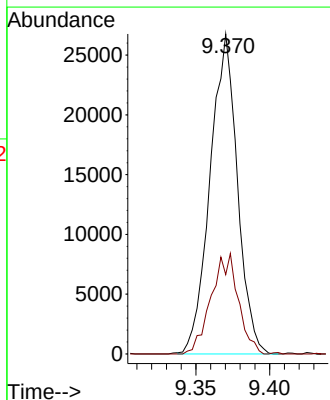
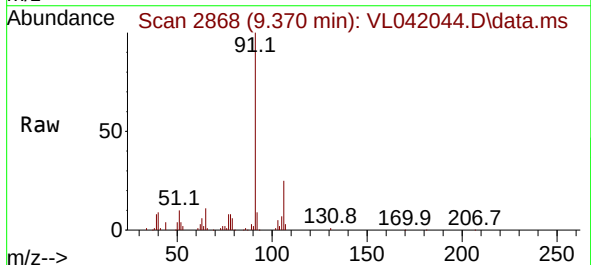
Manual Integrations
APPROVED

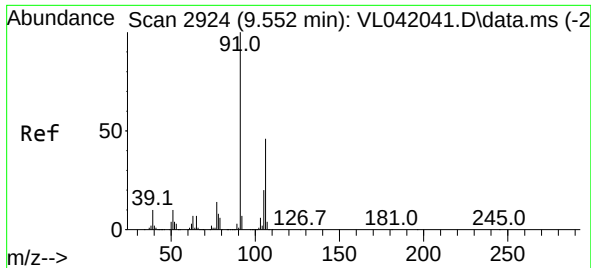
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#58
Ethyl Benzene
Concen: 0.431 ppbv
RT: 9.370 min Scan# 2868
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 91 Resp: 34506
Ion Ratio Lower Upper
91 100
106 24.8 24.2 36.2





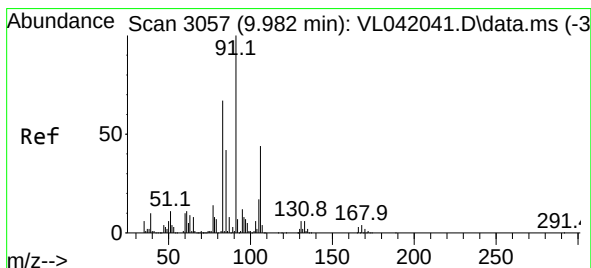
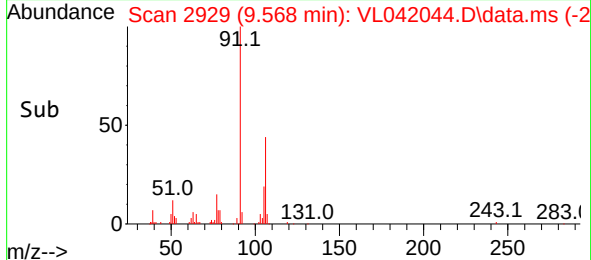
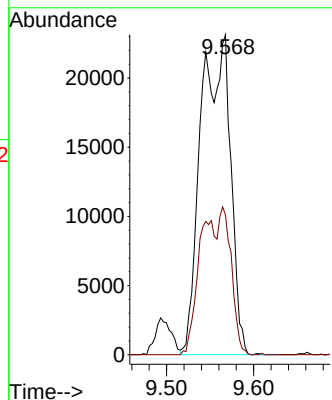
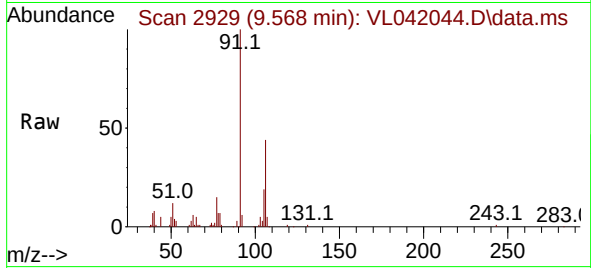
#59
m/p-Xylene
Concen: 0.863 ppbv m
RT: 9.568 min Scan# 2924
Delta R.T. 0.016 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 91 Resp: 54449
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0

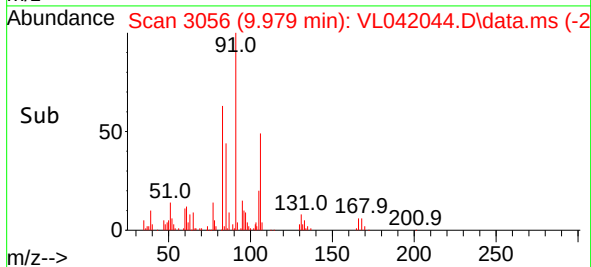
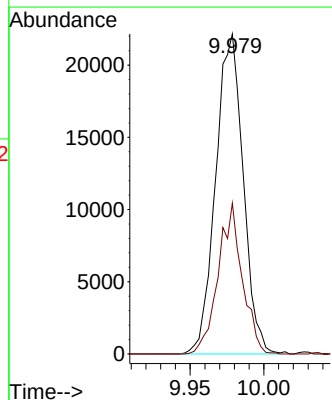
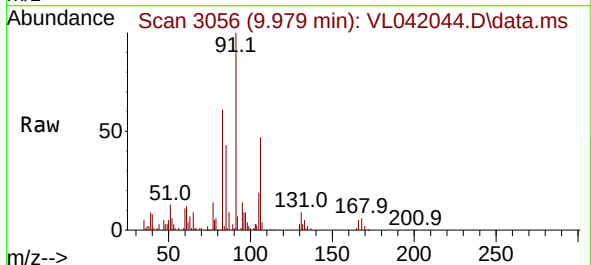
Manual Integrations
APPROVED

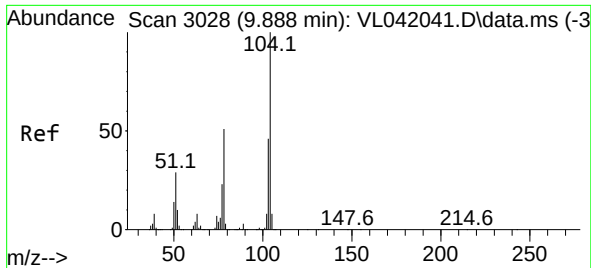
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#60
o-Xylene
Concen: 0.451 ppbv
RT: 9.979 min Scan# 3056
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 91 Resp: 28757
Ion Ratio Lower Upper
91 100
106 41.3 22.3 66.8





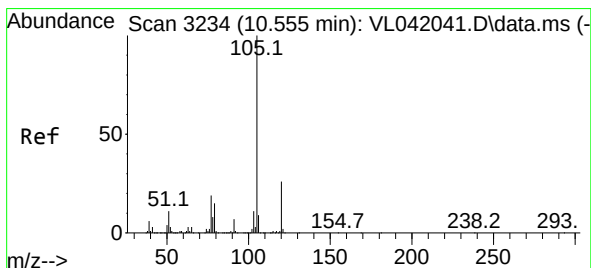
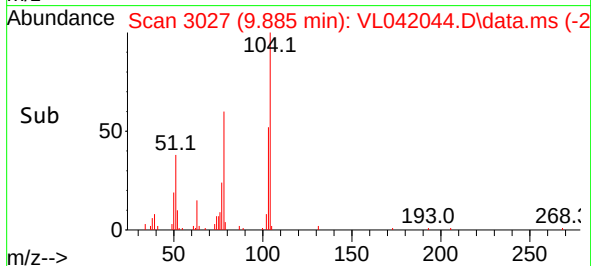
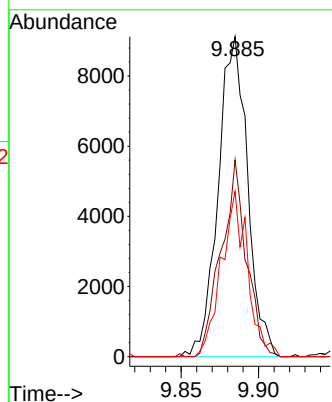
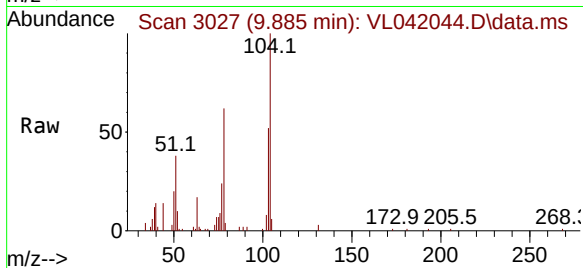
#61
Styrene
Concen: 0.396 ppbv
RT: 9.885 min Scan# 3028
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion:104 Resp: 1205
Ion Ratio Lower Upper
104 100
78 52.9 41.0 61.4
103 46.1 37.0 55.6

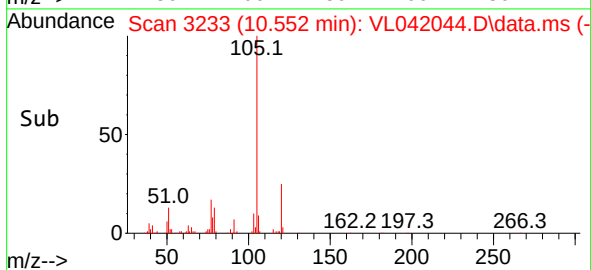
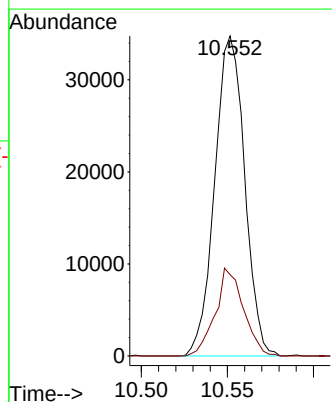
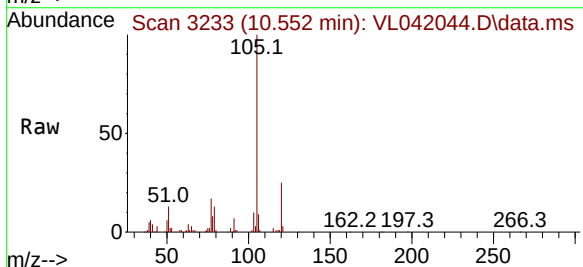
Manual Integrations
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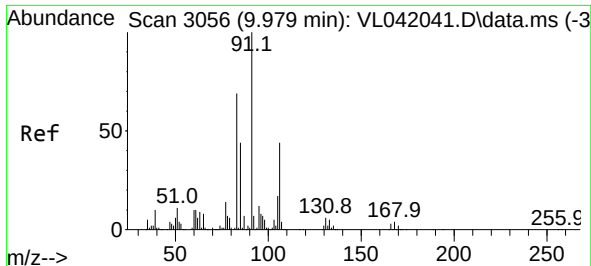
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#62
Isopropylbenzene
Concen: 0.439 ppbv
RT: 10.552 min Scan# 3233
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

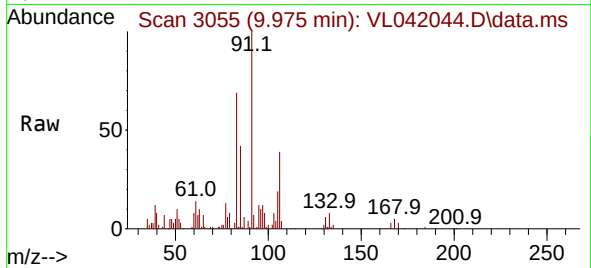
Tgt Ion:105 Resp: 42074
Ion Ratio Lower Upper
105 100
120 25.8 20.7 31.1





#63
1,1,2,2-Tetrachloroethane
Concen: 0.456 ppbv
RT: 9.975 min Scan# 3055
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

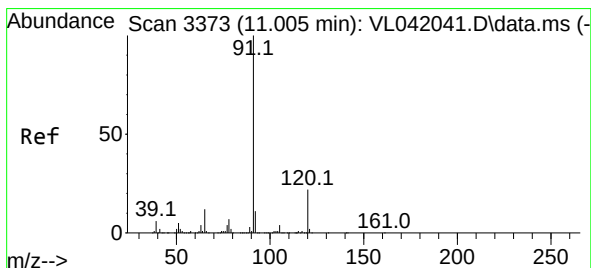
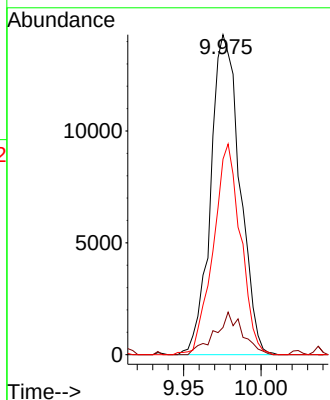
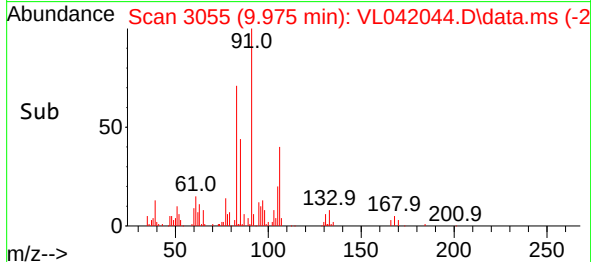
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



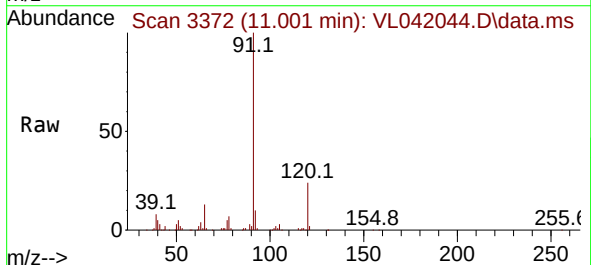
Tgt Ion: 83 Resp: 18774
Ion Ratio Lower Upper
83 100
131 12.5 4.5 13.7
85 61.7 32.1 96.3

Manual Integrations
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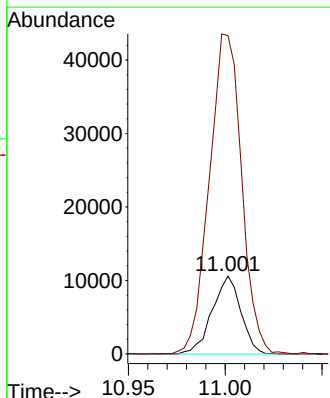
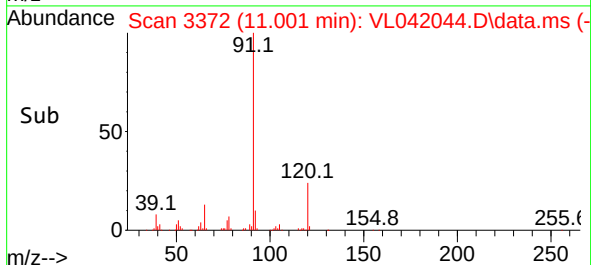
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

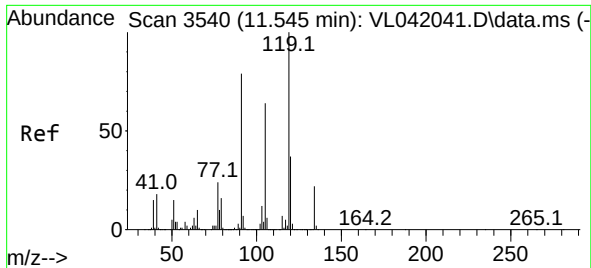


#64
n-propylbenzene
Concen: 0.463 ppbv
RT: 11.001 min Scan# 3372
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31



Tgt Ion:120 Resp: 10900
Ion Ratio Lower Upper
120 100
91 464.2 370.6 556.0





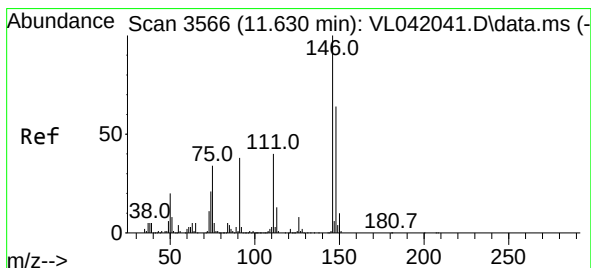
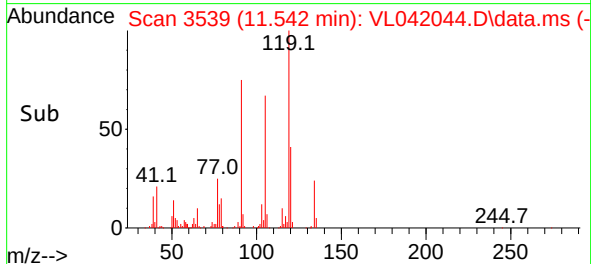
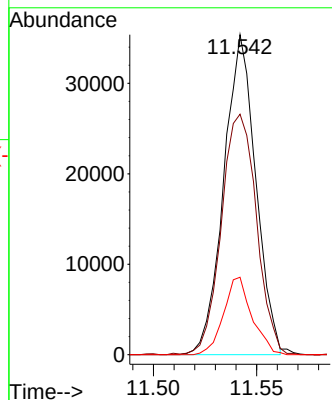
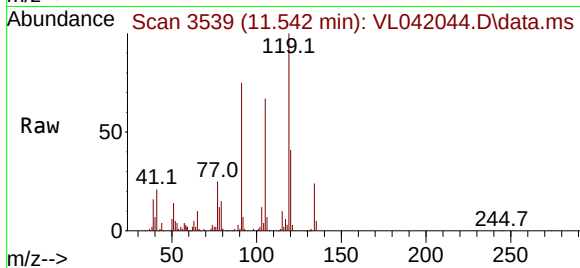
#65
tert-Butylbenzene
Concen: 0.456 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. -0.004 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 119 Resp: 3806
Ion Ratio Lower Upper
119 100
91 82.9 64.2 96.2
134 21.5 17.4 26.2

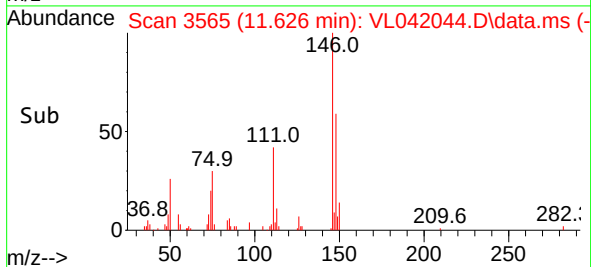
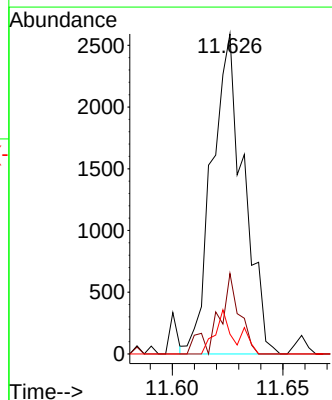
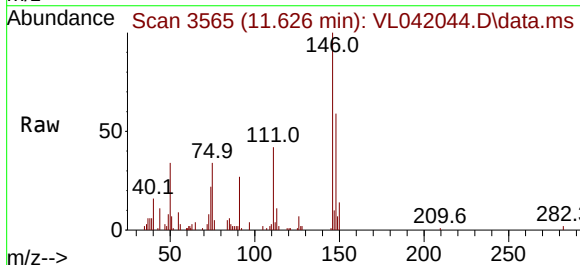
Manual Integrations
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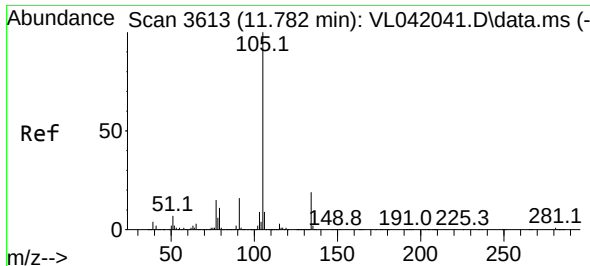
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#66
Benzyl Chloride
Concen: 0.309 ppbv
RT: 11.626 min Scan# 3565
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

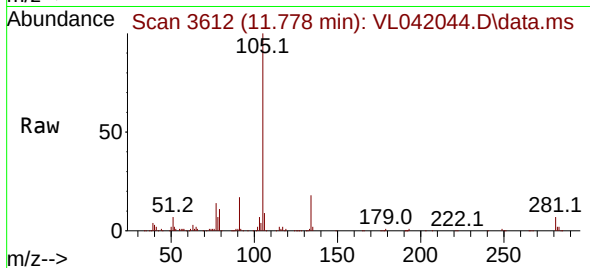
Tgt Ion: 91 Resp: 2589
Ion Ratio Lower Upper
91 100
126 16.8 14.5 21.7
128 8.7 5.4 8.2#





#67
 sec-Butylbenzene
 Concen: 0.464 ppbv
 RT: 11.778 min Scan# 3612
 Delta R.T. -0.003 min
 Lab File: VL042044.D
 Acq: 25 Feb 2025 10:31

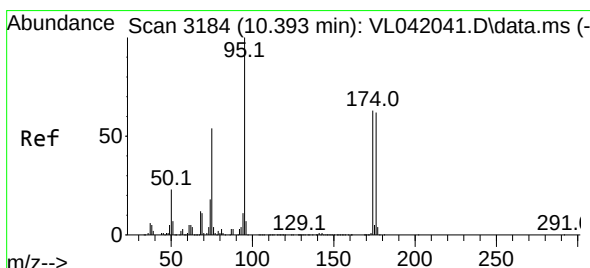
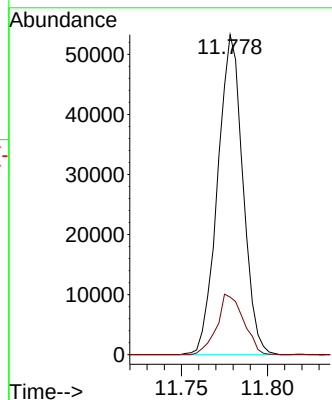
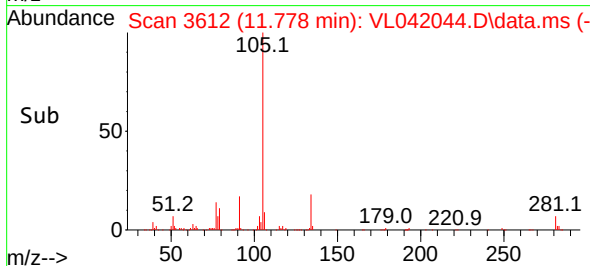
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



Tgt Ion:105 Resp: 54394
 Ion Ratio Lower Upper
 105 100
 134 19.9 14.9 22.3

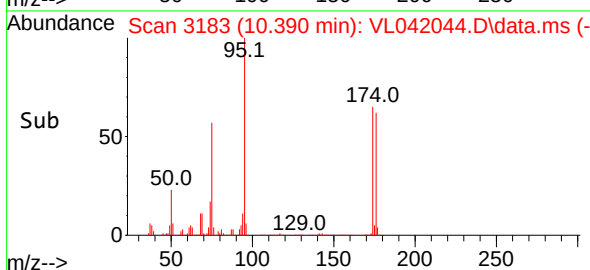
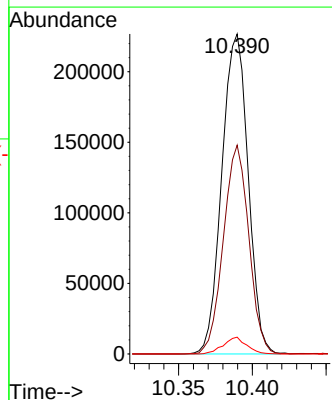
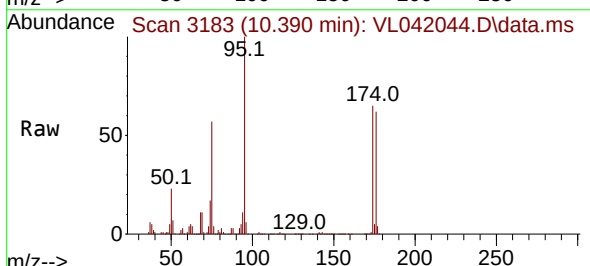
Manual Integrations
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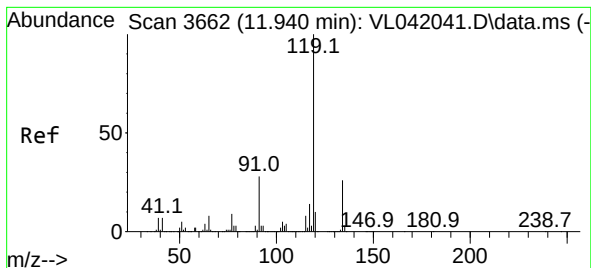
Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.310 ppbv
 RT: 10.390 min Scan# 3183
 Delta R.T. -0.003 min
 Lab File: VL042044.D
 Acq: 25 Feb 2025 10:31

Tgt Ion: 95 Resp: 281042
 Ion Ratio Lower Upper
 95 100
 174 63.4 51.8 77.6
 175 4.6 3.9 5.9





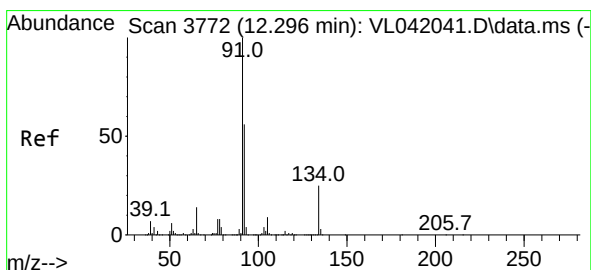
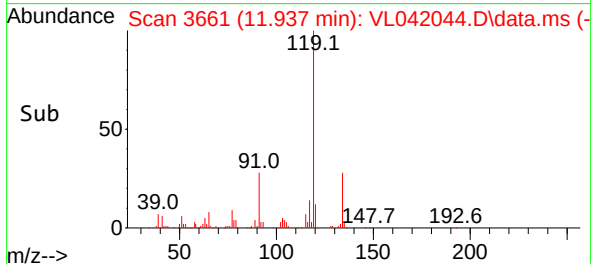
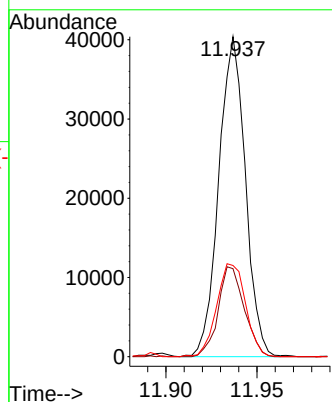
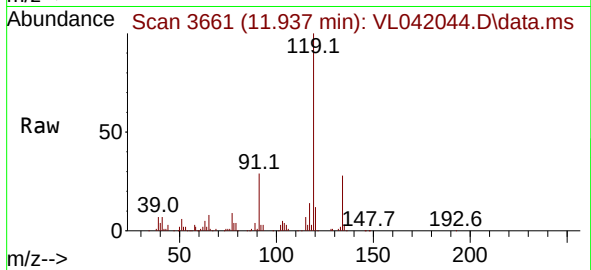
#69
p-Isopropyltoluene
Concen: 0.427 ppbv
RT: 11.937 min Scan# 3661
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion:119 Resp: 40978
Ion Ratio Lower Upper
119 100
134 27.7 20.9 31.3
91 32.2 23.1 34.7

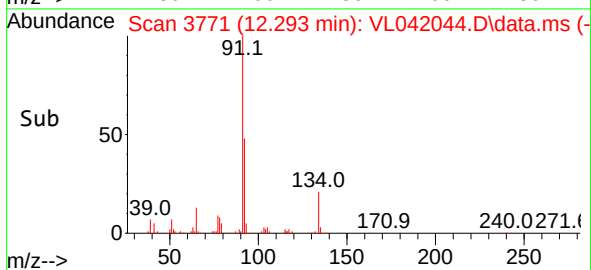
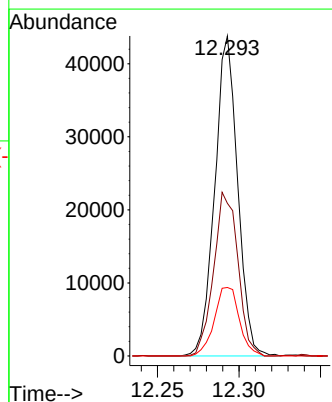
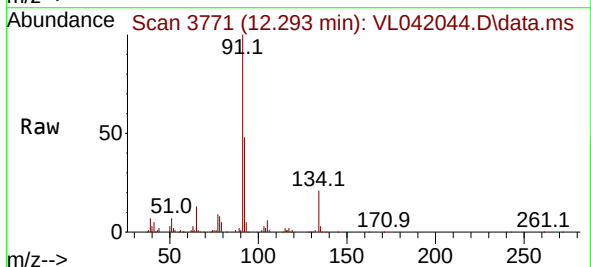
Manual Integrations
APPROVED

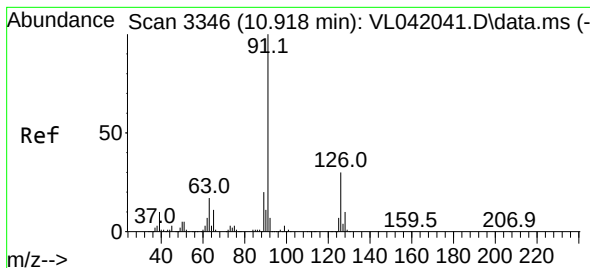
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#70
n-Butylbenzene
Concen: 0.451 ppbv
RT: 12.293 min Scan# 3771
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 91 Resp: 42673
Ion Ratio Lower Upper
91 100
92 54.5 44.7 67.1
134 23.5 18.9 28.3





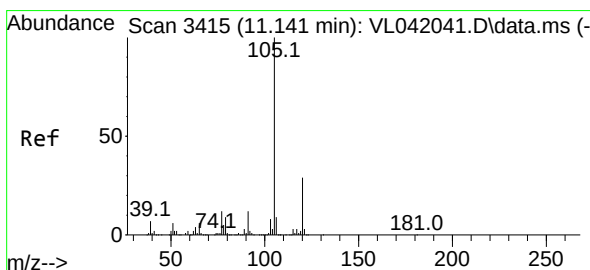
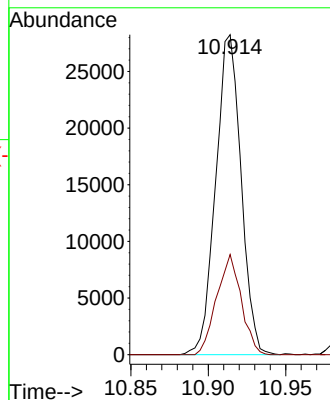
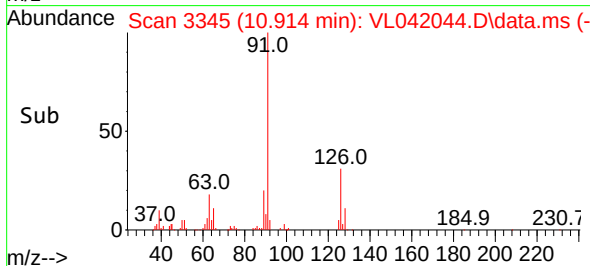
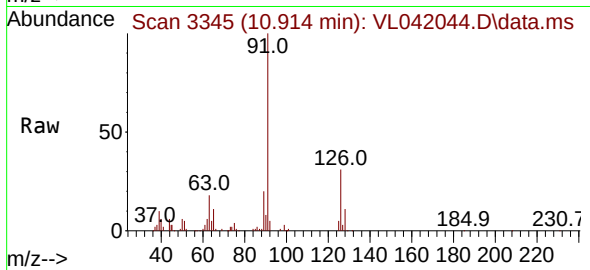
#71
2-Chlorotoluene
Concen: 0.446 ppbv
RT: 10.914 min Scan# 316
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 91 Resp: 3216
Ion Ratio Lower Upper
91 100
126 30.2 11.9 47.5

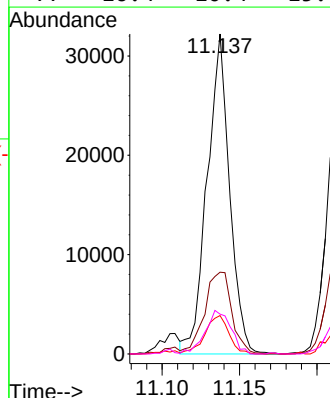
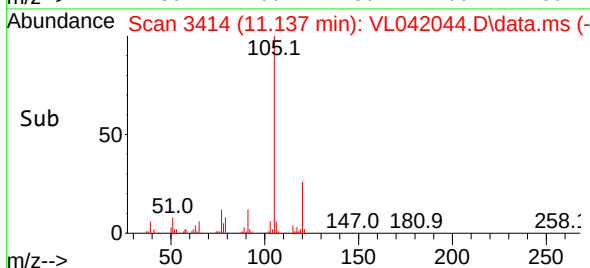
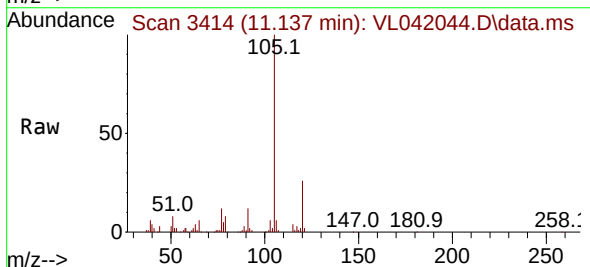
Manual Integrations
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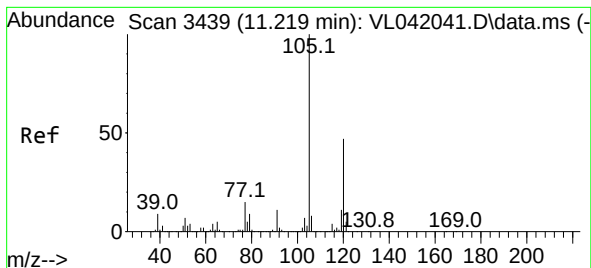
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#72
4-Ethyltoluene
Concen: 0.434 ppbv
RT: 11.137 min Scan# 3414
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion:105 Resp: 32477
Ion Ratio Lower Upper
105 100
120 32.5 24.1 36.1
91 13.6 10.2 15.4
77 16.4 10.4 15.6#





#73

1,3,5-Trimethylbenzene

Concen: 0.452 ppbv

RT: 11.215 min Scan# 3439

Delta R.T. -0.004 min

Lab File: VL042044.D

Acq: 25 Feb 2025 10:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion:105 Resp: 29130

Ion Ratio Lower Upper

105 100

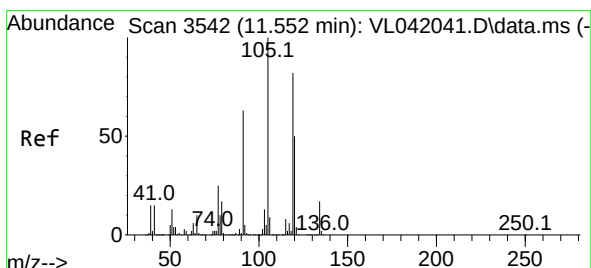
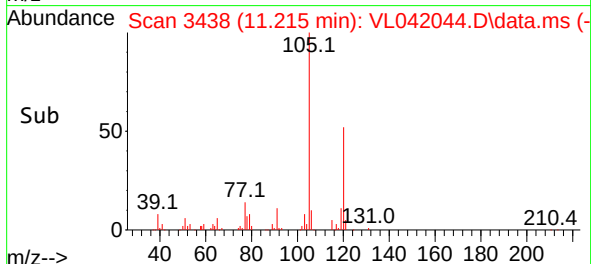
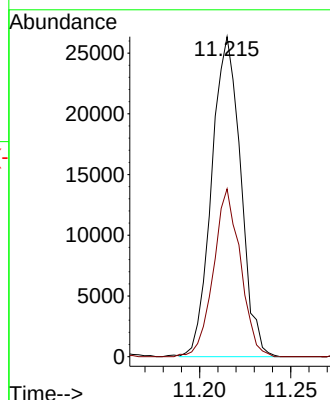
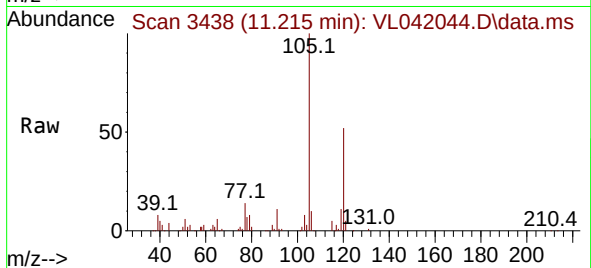
120 52.4 37.4 56.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 02/26/2025

Supervised By :Mahesh Dadoda 02/26/2025



#74

1,2,4-Trimethylbenzene

Concen: 0.491 ppbv

RT: 11.548 min Scan# 3541

Delta R.T. -0.003 min

Lab File: VL042044.D

Acq: 25 Feb 2025 10:31

Tgt Ion:105 Resp: 33950

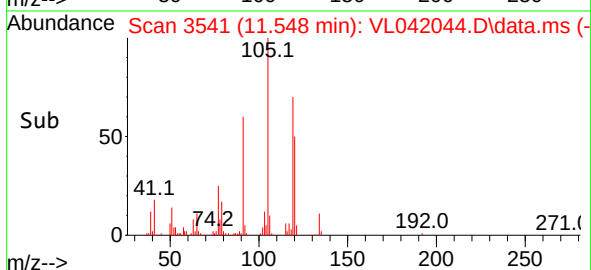
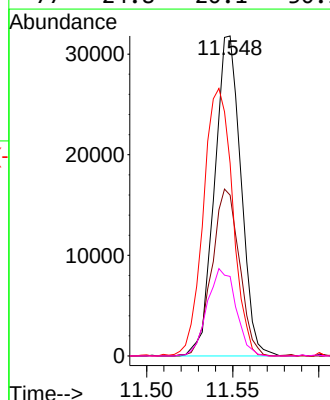
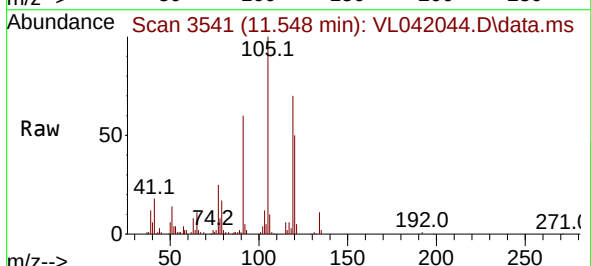
Ion Ratio Lower Upper

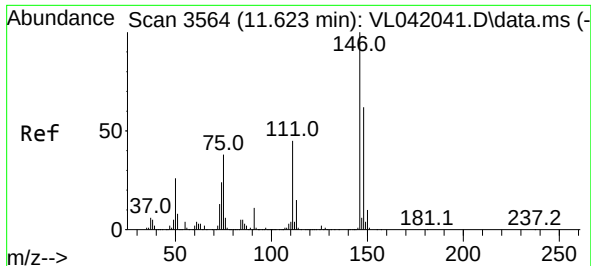
105 100

120 50.1 40.2 60.2

91 60.2 51.4 77.2

77 24.8 20.1 30.1





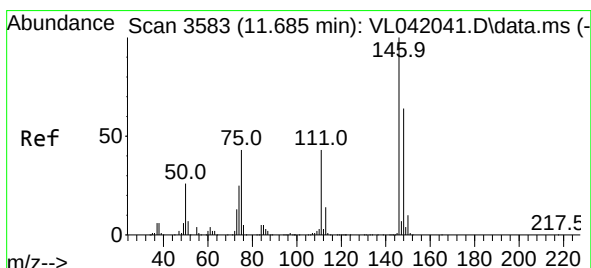
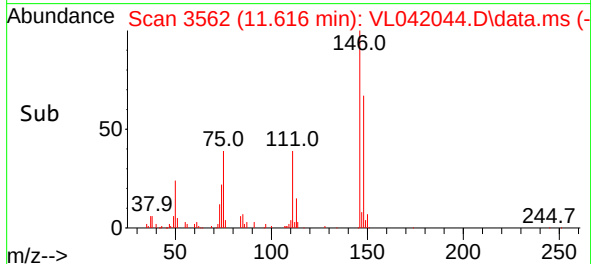
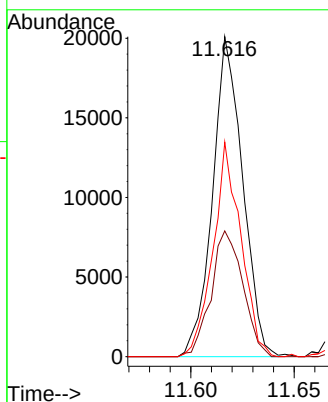
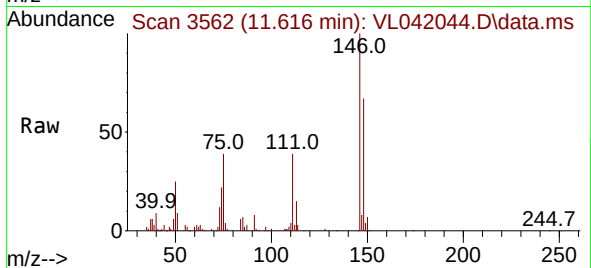
#75
1,3-Dichlorobenzene
Concen: 0.546 ppbv
RT: 11.616 min Scan# 3562
Delta R.T. -0.007 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion:146 Resp: 20339
Ion Ratio Lower Upper
146 100
111 41.6 22.4 67.2
148 61.9 32.3 96.8

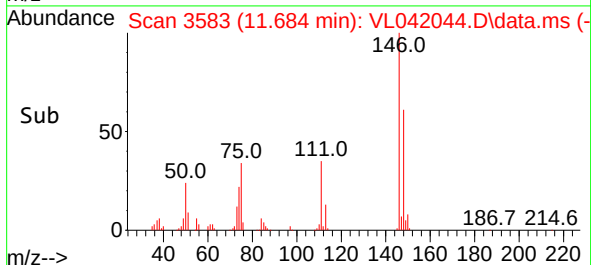
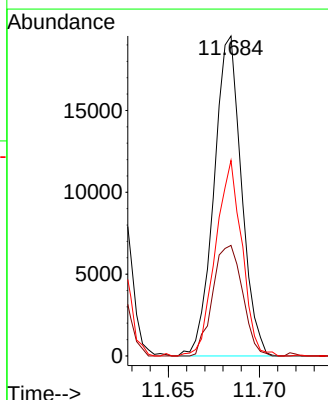
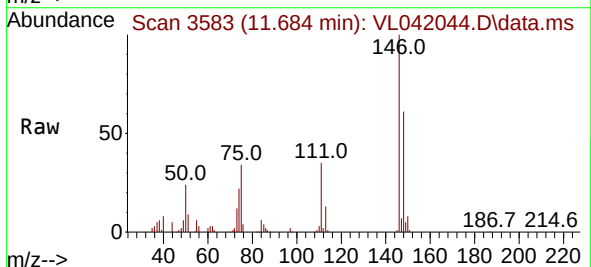
Manual Integrations
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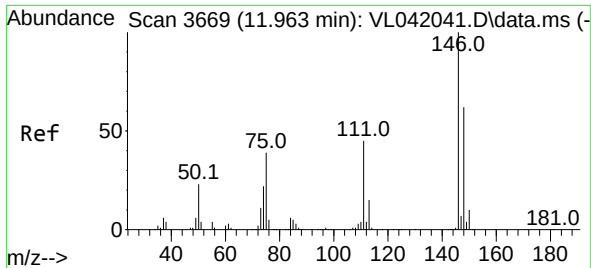
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#76
1,4-Dichlorobenzene
Concen: 0.564 ppbv
RT: 11.684 min Scan# 3583
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion:146 Resp: 20492
Ion Ratio Lower Upper
146 100
111 37.7 21.5 64.5
148 58.8 31.6 95.0





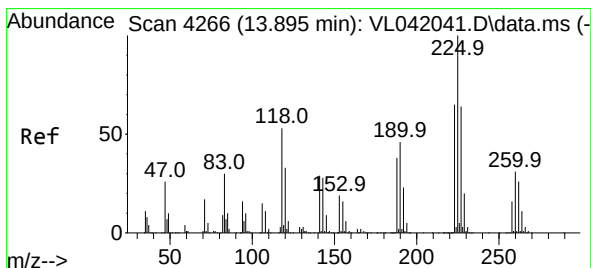
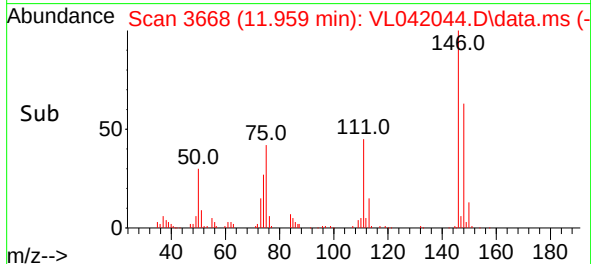
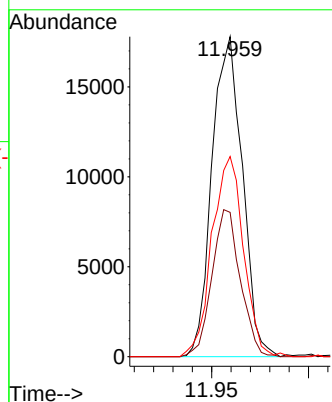
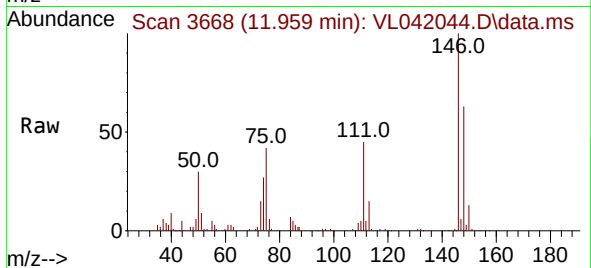
#77
1,2-Dichlorobenzene
Concen: 0.544 ppbv
RT: 11.959 min Scan# 3668
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion:146 Resp: 1937
Ion Ratio Lower Upper
146 100
111 43.0 23.2 69.6
148 65.0 31.4 94.2

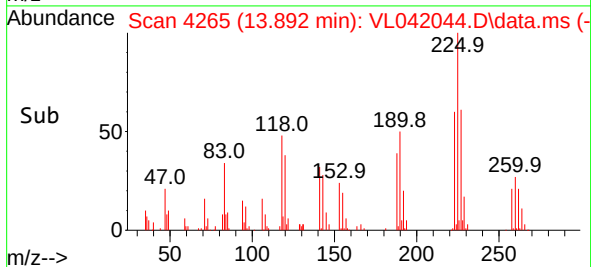
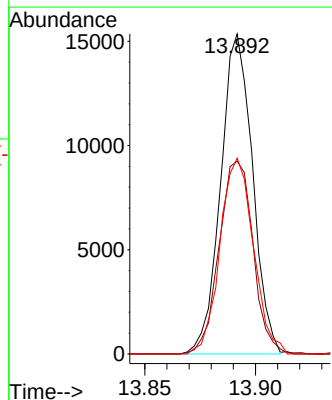
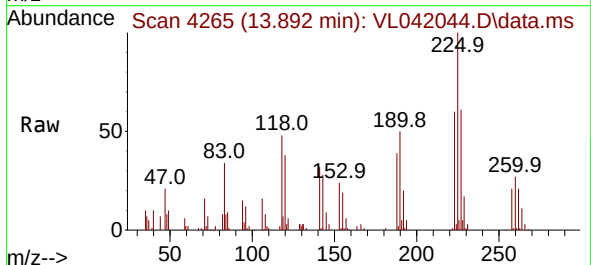
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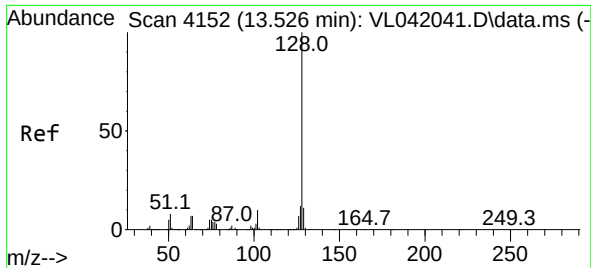
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#78
Hexachloro-1,3-Butadiene
Concen: 0.522 ppbv
RT: 13.892 min Scan# 4265
Delta R.T. -0.004 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

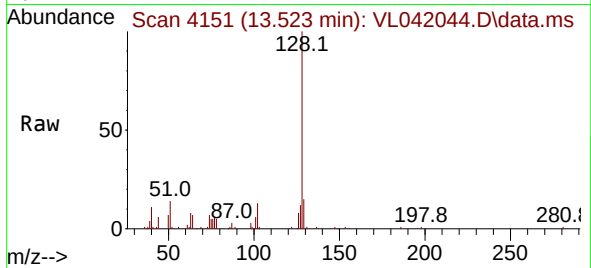
Tgt Ion:225 Resp: 15367
Ion Ratio Lower Upper
225 100
223 64.1 50.2 75.2
227 64.0 50.8 76.2





#79
Naphthalene
Concen: 0.263 ppbv
RT: 13.523 min Scan# 4152
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

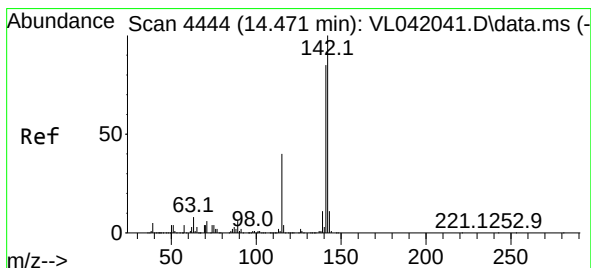
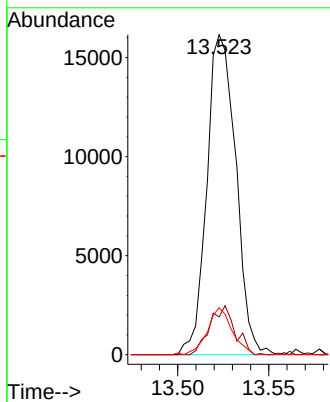
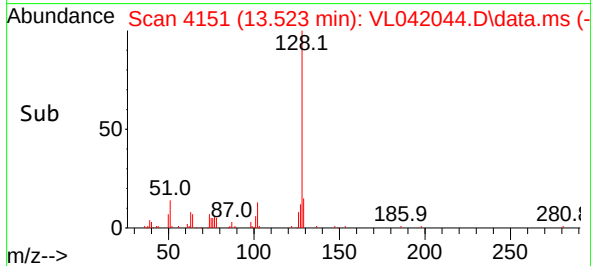
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



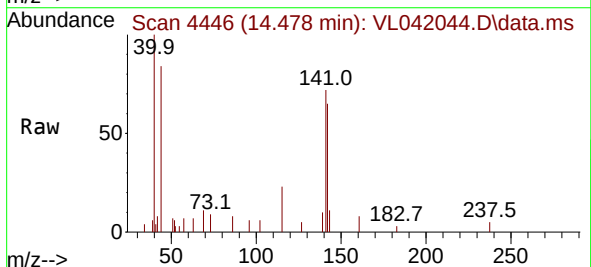
Tgt Ion:128 Resp: 1789
Ion Ratio Lower Upper
128 100
127 11.8 9.8 14.6
129 14.7 8.6 12.8

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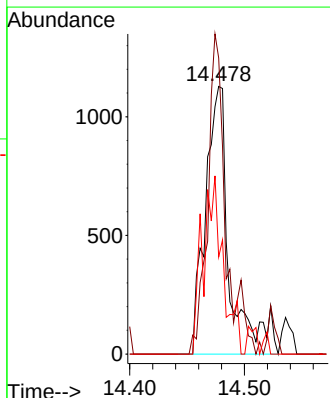
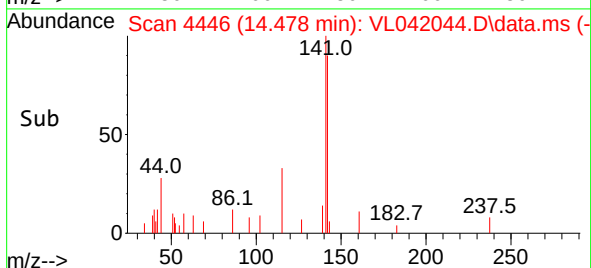
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

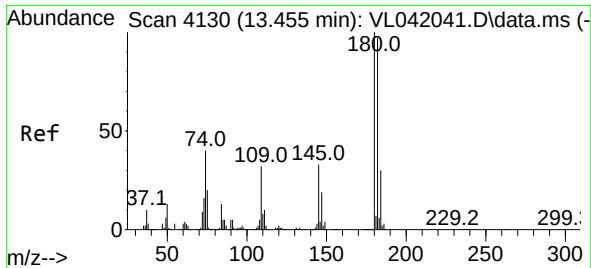


#80
Naphthalene,2-methyl-
Concen: 0.053 ppbv
RT: 14.478 min Scan# 4446
Delta R.T. 0.006 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31



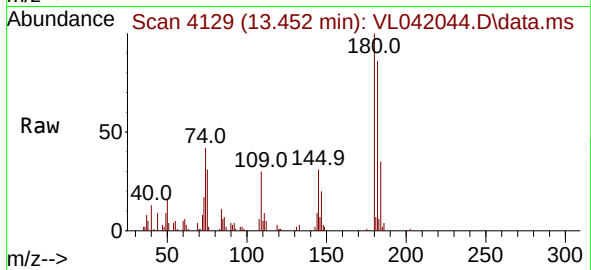
Tgt Ion:142 Resp: 1646
Ion Ratio Lower Upper
142 100
141 94.8 65.8 98.6
115 55.5 29.5 44.3





#81
 1,2,4-Trichlorobenzene
 Concen: 0.389 ppbv
 RT: 13.452 min Scan# 41
 Delta R.T. -0.004 min
 Lab File: VL042044.D
 Acq: 25 Feb 2025 10:31

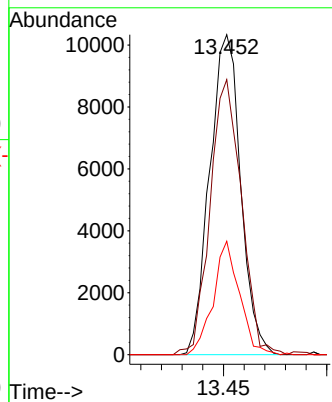
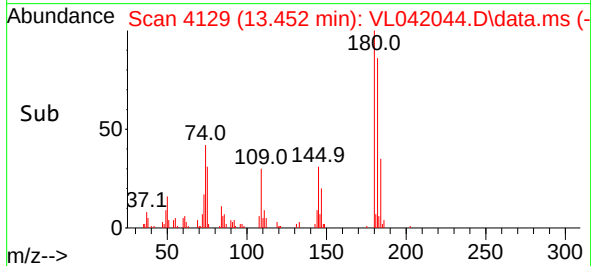
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



Tgt Ion:180 Resp: 1077
 Ion Ratio Lower Upper
 180 100
 182 87.1 75.1 112.7
 184 30.2 23.8 35.6

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042045.D
 Acq On : 25 Feb 2025 11:03
 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 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 12:33:08 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Tue Feb 25 10:31:48 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.803	49	161406	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.981	114	414875	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.904	117	363831	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	276484	9.213	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.100%
Target Compounds						
5) Vinyl Chloride	1.586	62	543	0.042	ppbv #	88
32) 1,1,1-Trichloroethane	3.386	97	3026	0.064	ppbv #	86
35) Carbon Tetrachloride	3.787	117	2923m	0.073	ppbv	
38) Trichloroethene	4.577	130	1915m	0.094	ppbv	
52) Tetrachloroethene	8.254	164	1552m	0.089	ppbv	
54) 1,2-Dibromoethane	7.678	107	2335m	0.087	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.982	83	3549m	0.087	ppbv	
79) Naphthalene	13.529	128	3058	0.045	ppbv #	91

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

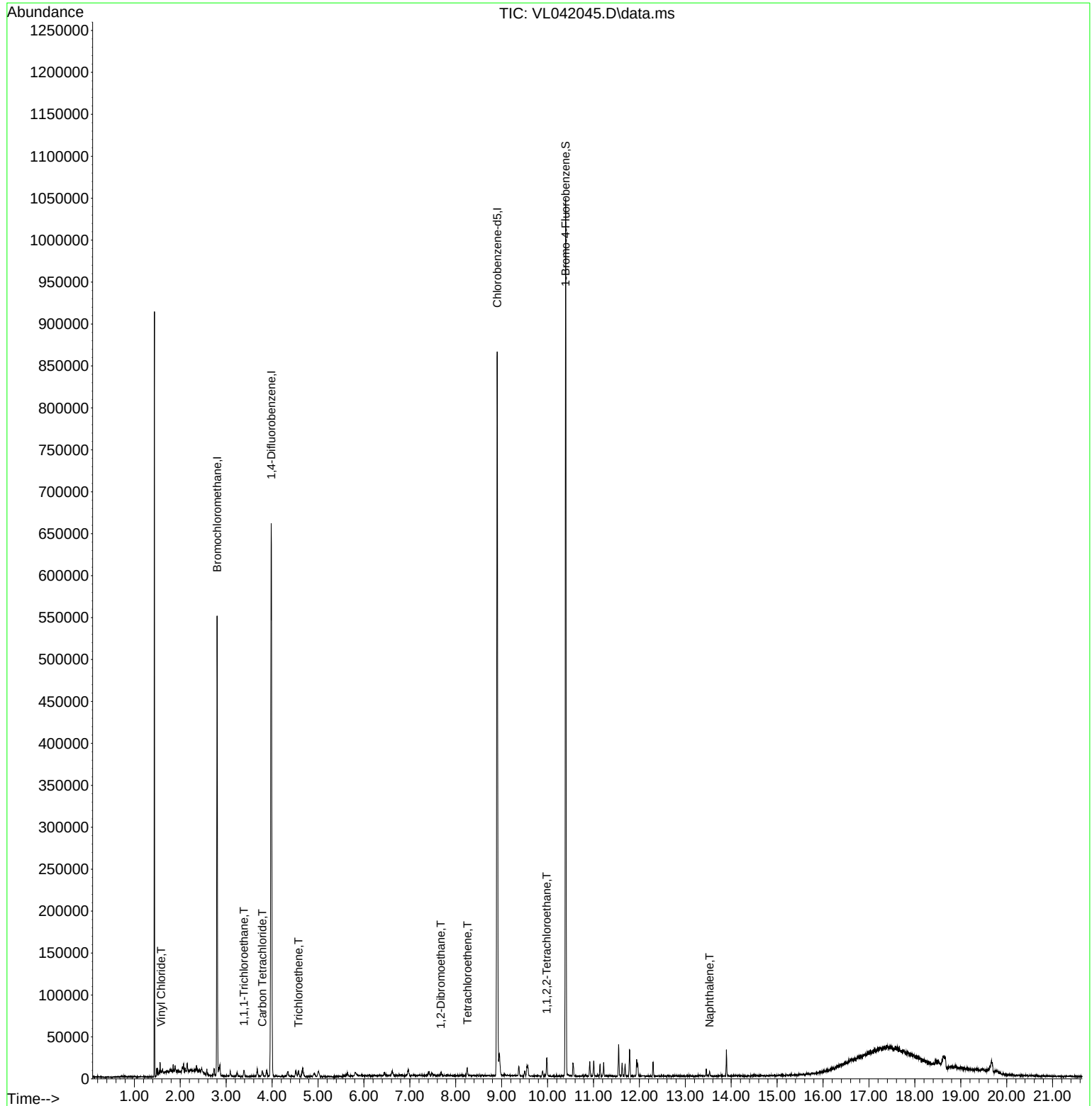
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042045.D
Acq On : 25 Feb 2025 11:03
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

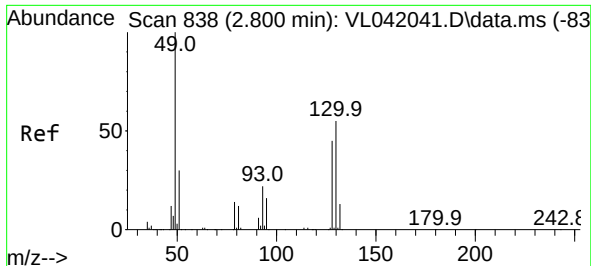
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

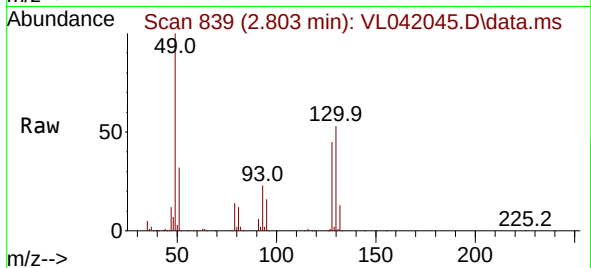
Quant Time: Feb 25 12:33:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Feb 25 10:31:48 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.803 min Scan# 838
Delta R.T. 0.003 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

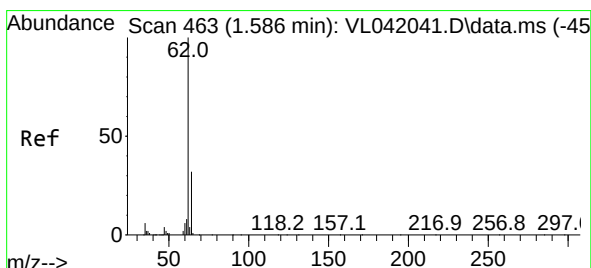
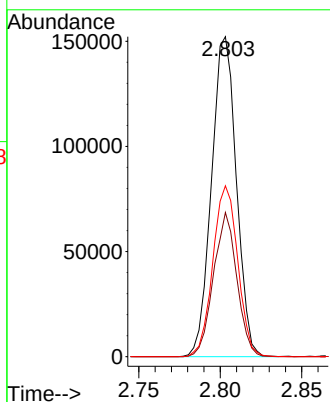
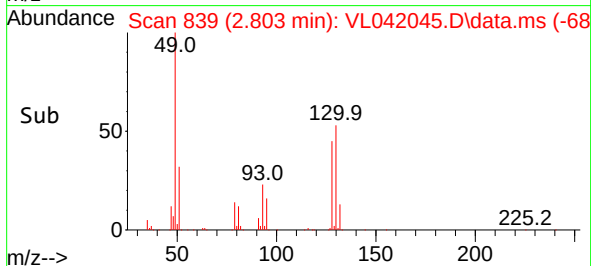
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1



Tgt Ion: 49 Resp: 161400
Ion Ratio Lower Upper
49 100
128 42.3 21.6 64.8
130 53.5 27.8 83.4

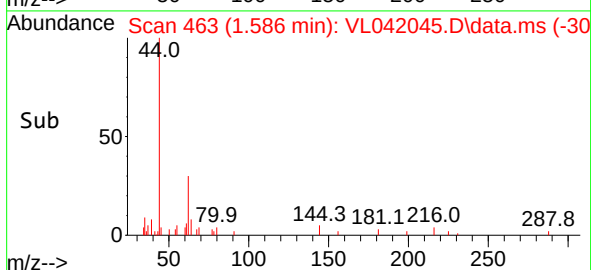
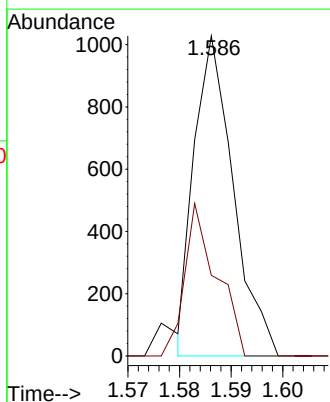
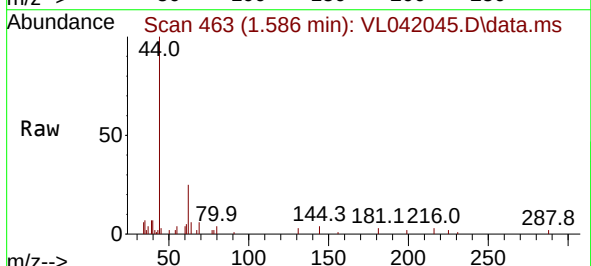
Manual Integrations
APPROVED

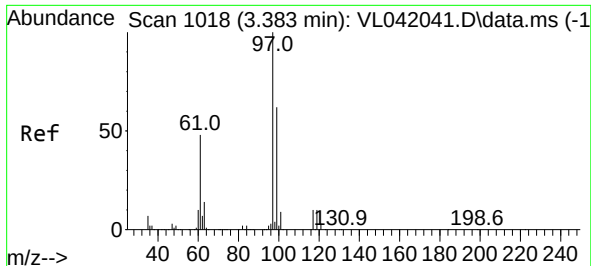
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#5
Vinyl Chloride
Concen: 0.042 ppbv
RT: 1.586 min Scan# 463
Delta R.T. -0.000 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion: 62 Resp: 543
Ion Ratio Lower Upper
62 100
64 25.2 25.3 37.9#





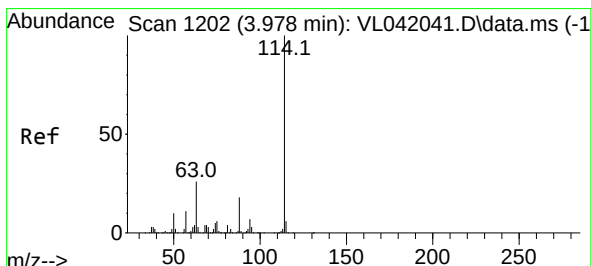
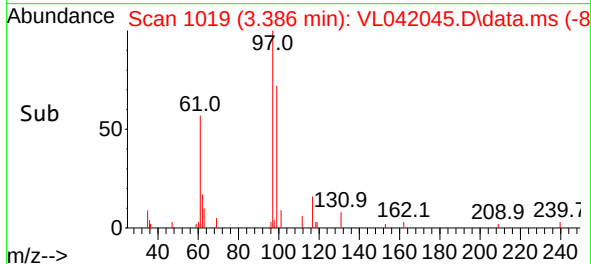
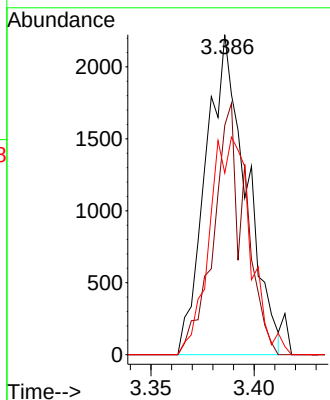
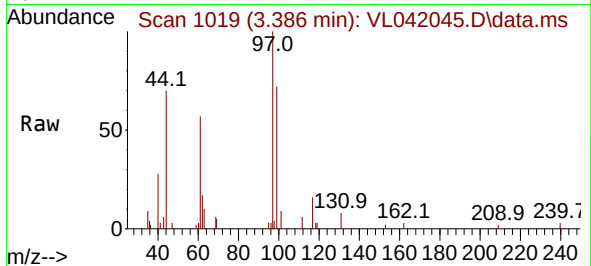
#32
1,1,1-Trichloroethane
Concen: 0.064 ppbv
RT: 3.386 min Scan# 1018
Delta R.T. 0.003 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

Tgt Ion: 97 Resp: 3020
Ion Ratio Lower Upper
97 100
99 61.1 49.8 74.6
61 68.5 38.9 58.3

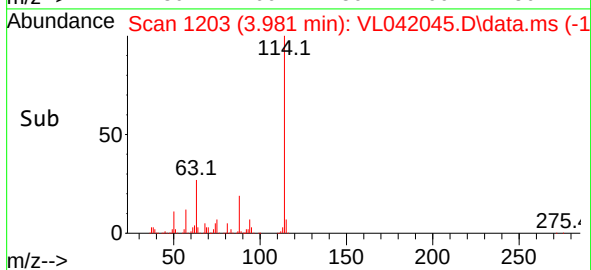
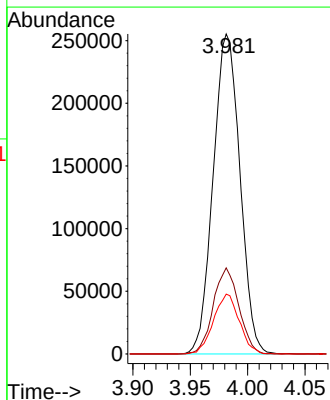
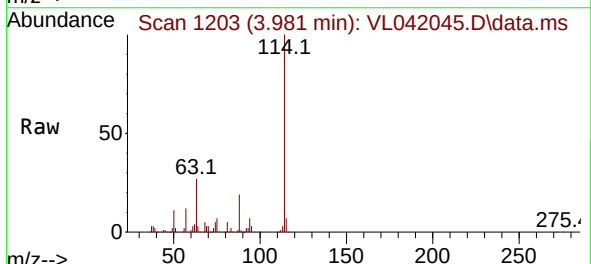
Manual Integrations
APPROVED

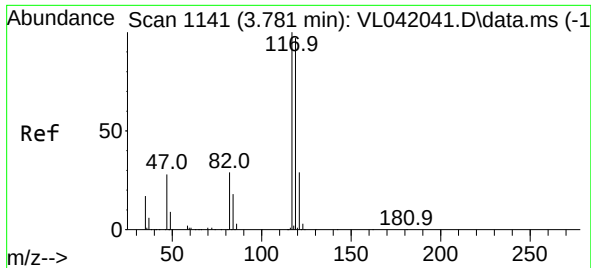
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.981 min Scan# 1203
Delta R.T. 0.003 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

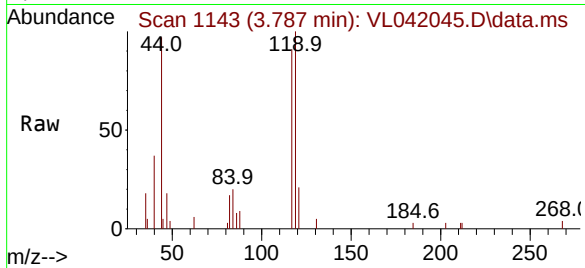
Tgt Ion:114 Resp: 414875
Ion Ratio Lower Upper
114 100
63 25.7 20.1 30.1
88 18.0 14.3 21.5





#35
Carbon Tetrachloride
Concen: 0.073 ppbv m
RT: 3.787 min Scan# 1141
Delta R.T. 0.006 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

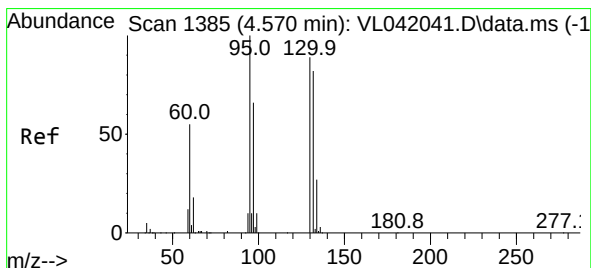
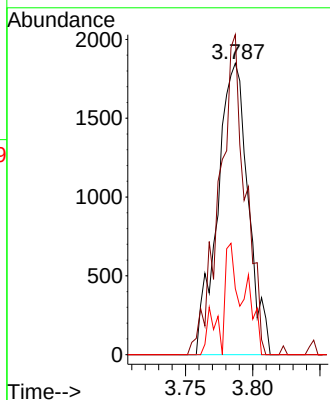
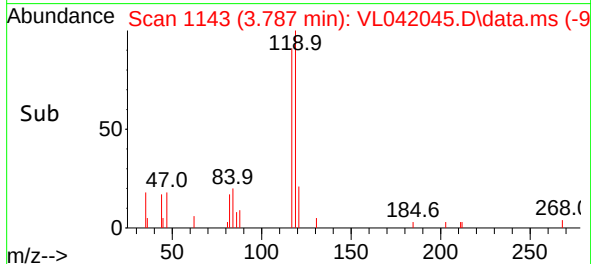
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1



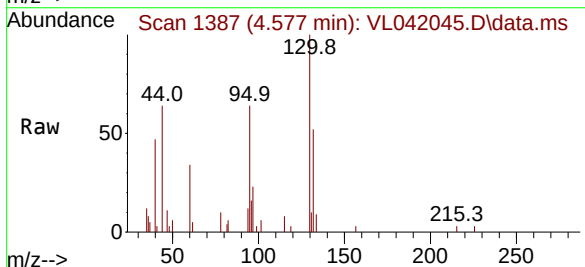
Tgt Ion:117 Resp: 292.3
Ion Ratio Lower Upper
117 100
119 109.8 77.8 116.8
121 22.7 23.4 35.0

Manual Integrations
APPROVED

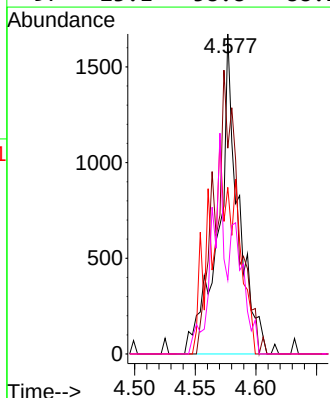
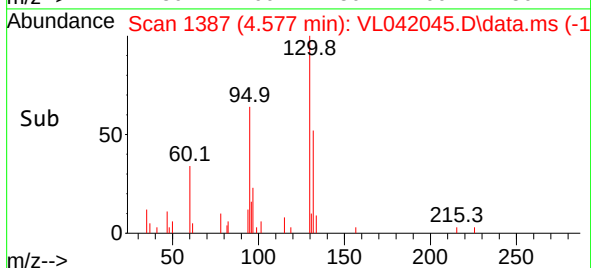
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

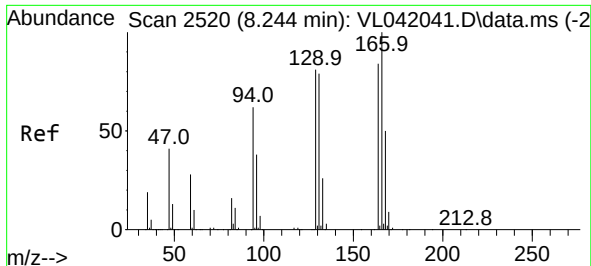


#38
Trichloroethene
Concen: 0.094 ppbv m
RT: 4.577 min Scan# 1387
Delta R.T. 0.006 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03



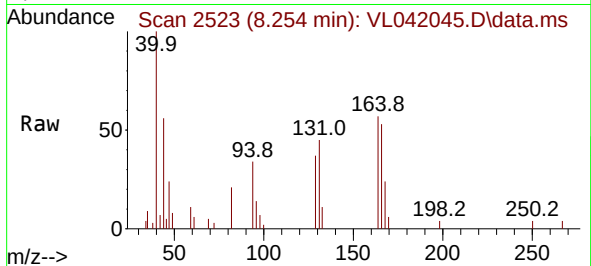
Tgt Ion:130 Resp: 1915
Ion Ratio Lower Upper
130 100
95 64.3 89.5 134.3#
132 52.0 73.8 110.6#
97 23.1 58.8 88.2#





#52
Tetrachloroethene
Concen: 0.089 ppbv m
RT: 8.254 min Scan# 2523
Delta R.T. 0.010 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

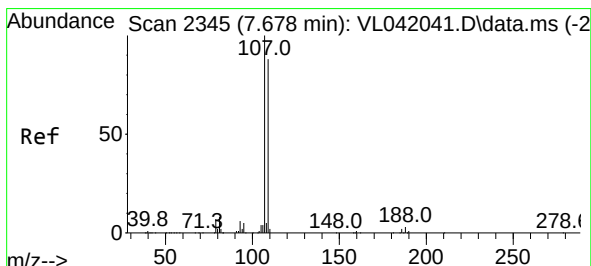
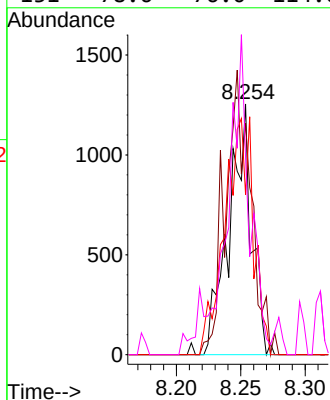
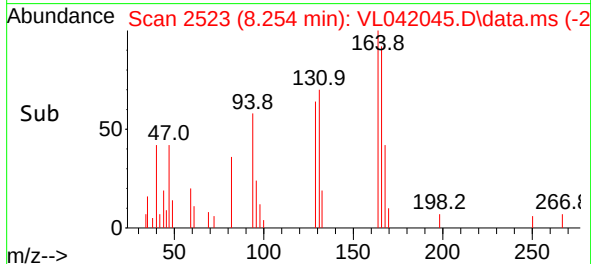
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1



Tgt Ion:164 Resp: 1552
Ion Ratio Lower Upper
164 100
166 92.3 95.7 143.5
129 63.9 77.1 115.7
131 78.6 76.0 114.0

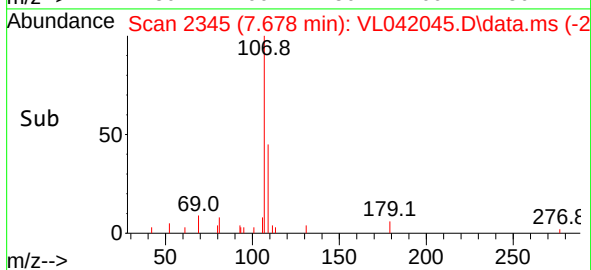
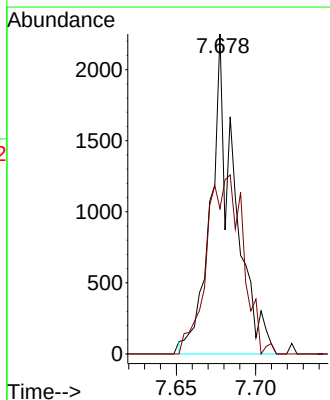
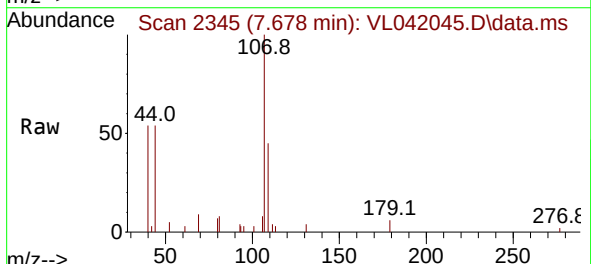
Manual Integrations
APPROVED

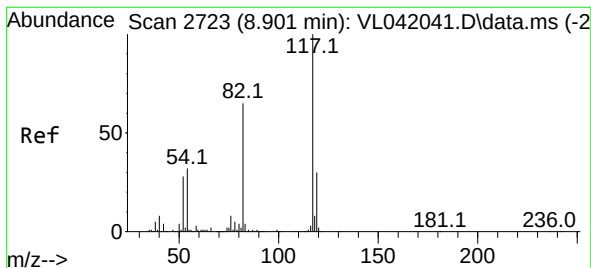
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#54
1,2-Dibromoethane
Concen: 0.087 ppbv m
RT: 7.678 min Scan# 2345
Delta R.T. -0.000 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion:107 Resp: 2335
Ion Ratio Lower Upper
107 100
109 45.4 70.2 105.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.904 min Scan# 21

Delta R.T. 0.003 min

Lab File: VL042045.D

Acq: 25 Feb 2025 11:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tgt Ion:117 Resp: 36383

Ion Ratio Lower Upper

117 100

82 66.3 55.0 82.6

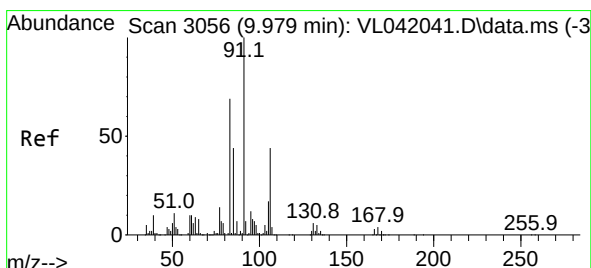
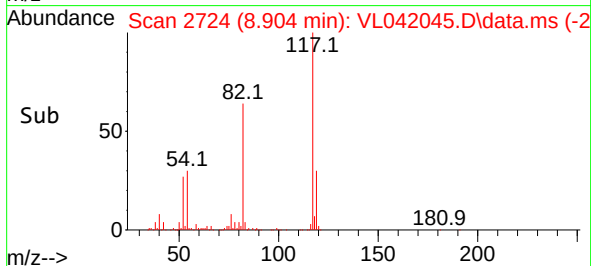
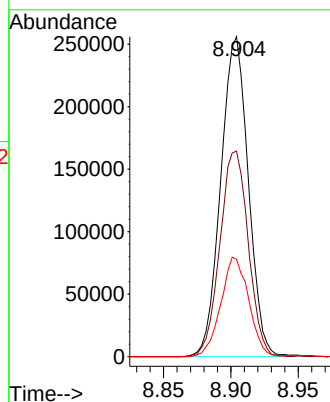
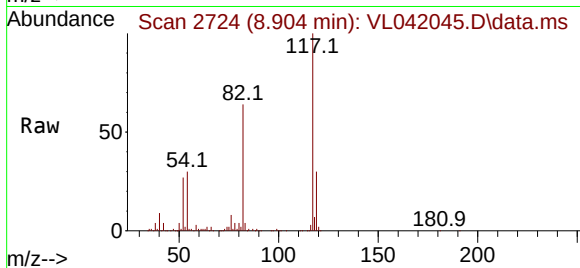
119 31.9 25.9 38.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025

Supervised By :Mahesh Dadoda 02/26/2025



#63

1,1,2,2-Tetrachloroethane

Concen: 0.087 ppbv m

RT: 9.982 min Scan# 3057

Delta R.T. 0.003 min

Lab File: VL042045.D

Acq: 25 Feb 2025 11:03

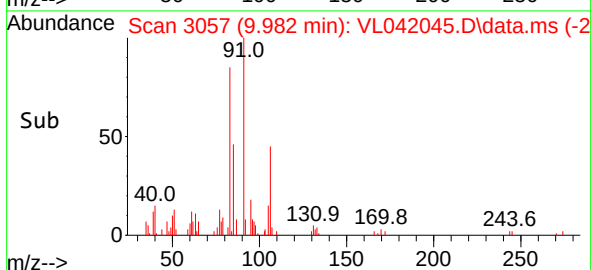
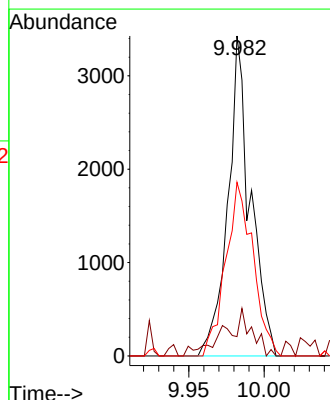
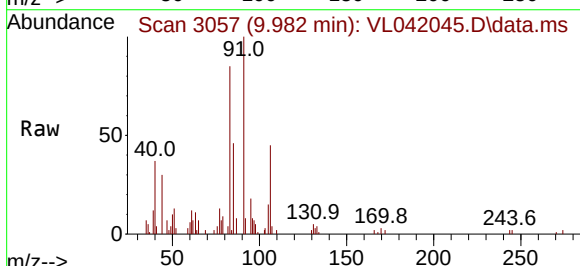
Tgt Ion: 83 Resp: 3549

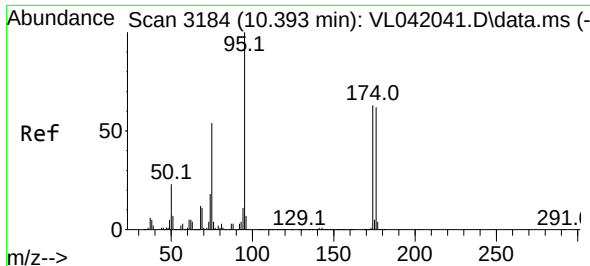
Ion Ratio Lower Upper

83 100

131 23.0 4.5 13.7#

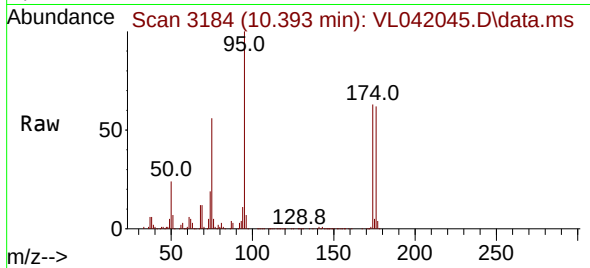
85 66.0 32.1 96.3





#68
1-Bromo-4-Fluorobenzene
Concen: 9.213 ppbv
RT: 10.393 min Scan# 3184
Delta R.T. -0.000 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

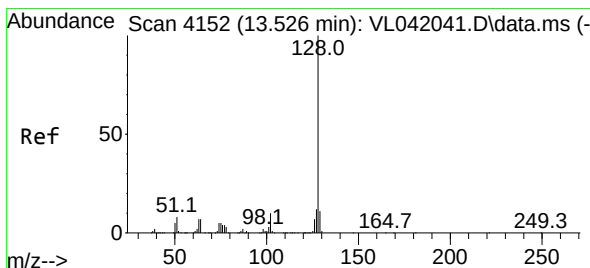
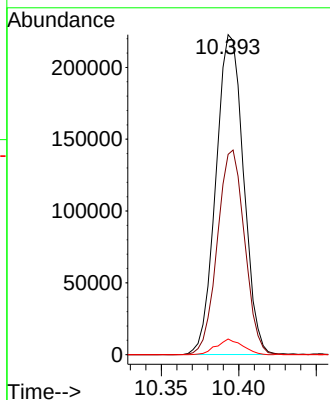
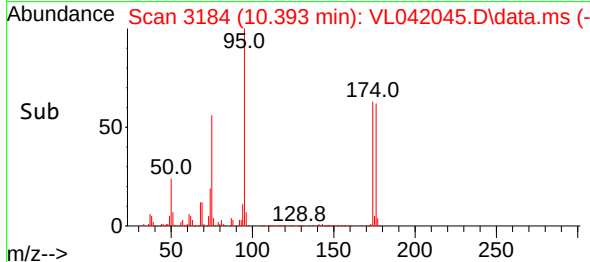
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1



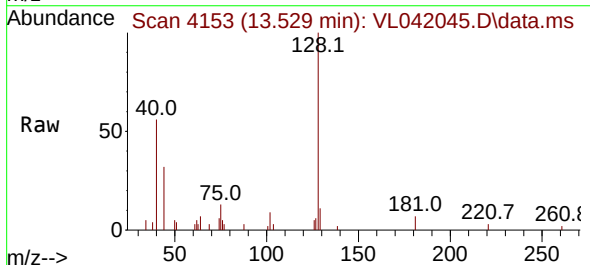
Tgt Ion: 95 Resp: 276484
Ion Ratio Lower Upper
95 100
174 63.2 51.8 77.6
175 4.6 3.9 5.9

Manual Integrations
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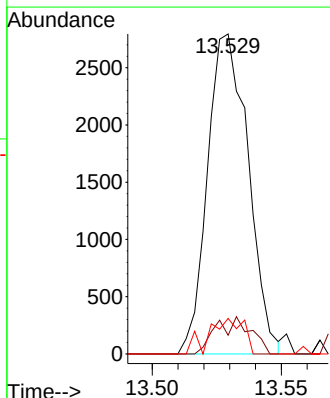
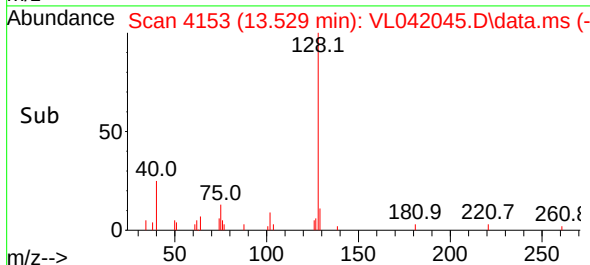
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#79
Naphthalene
Concen: 0.045 ppbv
RT: 13.529 min Scan# 4153
Delta R.T. 0.003 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03



Tgt Ion:128 Resp: 3058
Ion Ratio Lower Upper
128 100
127 5.9 9.8 14.6#
129 11.1 8.6 12.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042046.D
 Acq On : 25 Feb 2025 11:34
 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 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 12:34:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Tue Feb 25 10:31:48 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	160156	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	410900	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	353154	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	272906	9.368	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.700%

Target Compounds	Qvalue

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

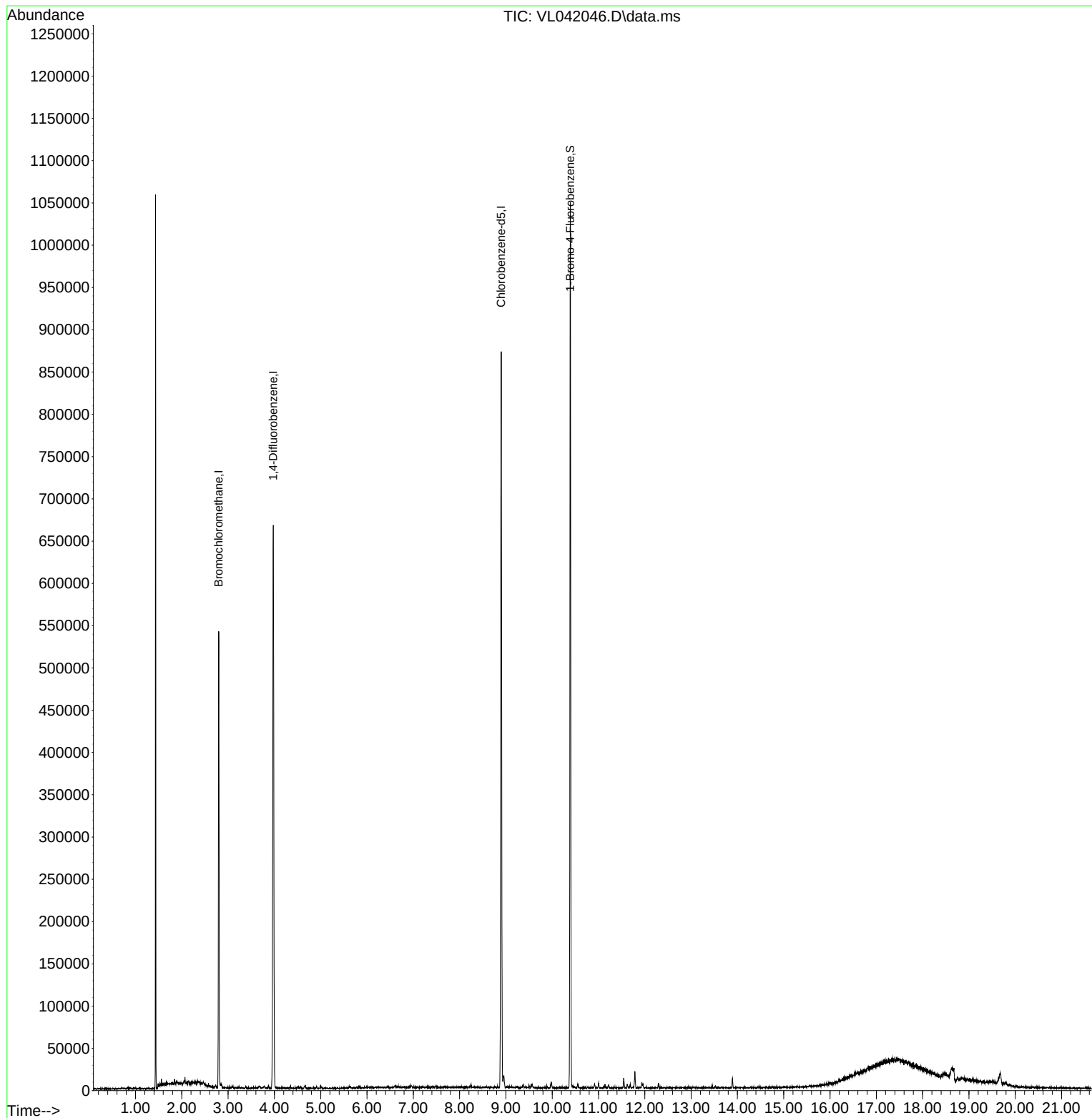
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042046.D
Acq On : 25 Feb 2025 11:34
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

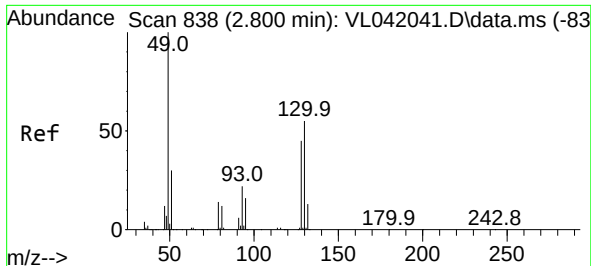
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025
Supervised By : Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 12:34:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Feb 25 10:31:48 2025
Response via : Initial Calibration





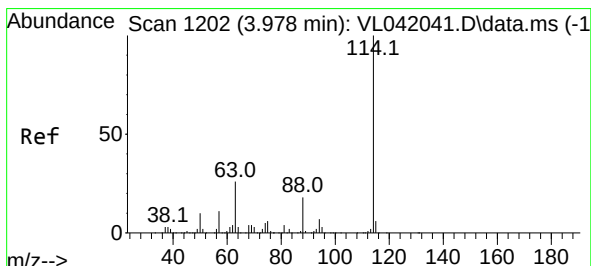
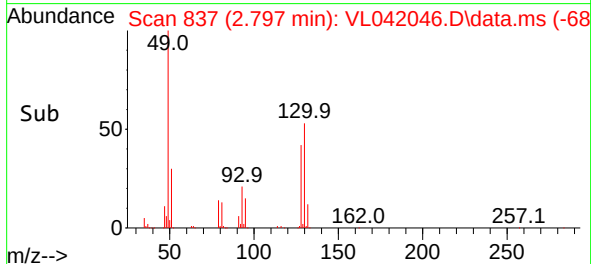
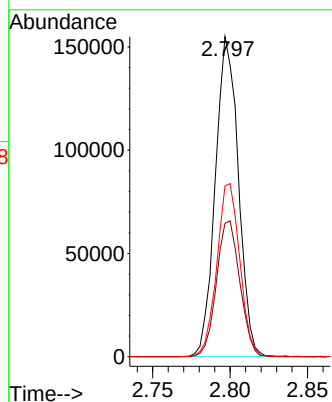
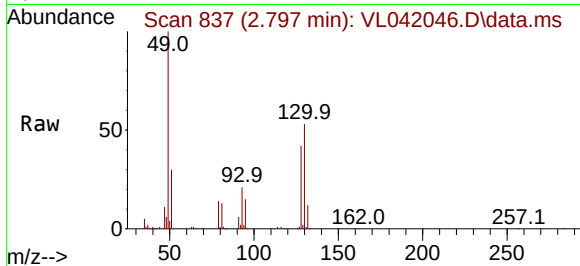
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL042046.D
Acq: 25 Feb 2025 11:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

Tgt Ion: 49 Resp: 160150
Ion Ratio Lower Upper
49 100
128 43.1 21.6 64.8
130 53.9 27.8 83.4

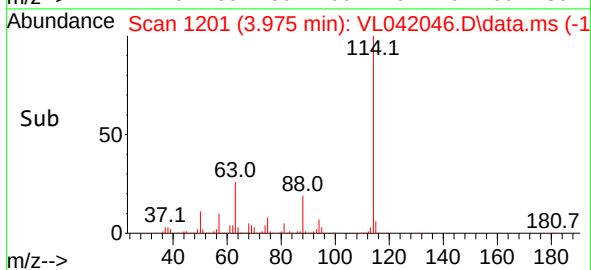
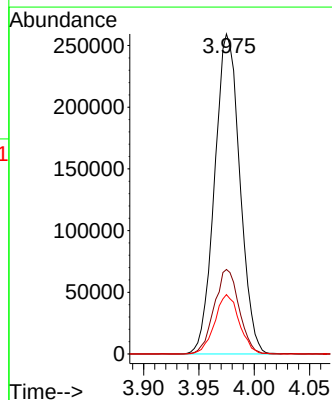
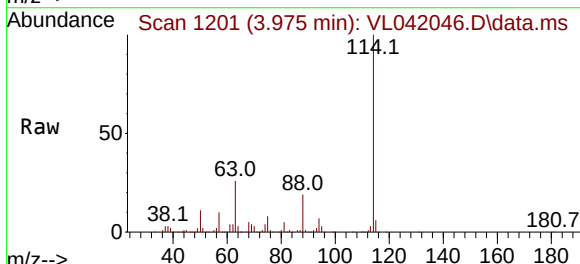
Manual Integrations
APPROVED

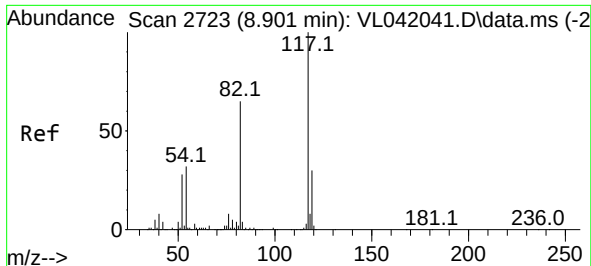
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.975 min Scan# 1201
Delta R.T. -0.003 min
Lab File: VL042046.D
Acq: 25 Feb 2025 11:34

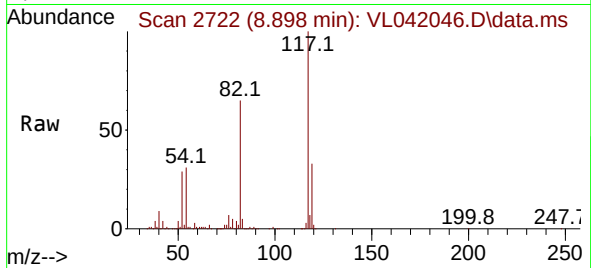
Tgt Ion:114 Resp: 410900
Ion Ratio Lower Upper
114 100
63 26.1 20.1 30.1
88 18.1 14.3 21.5





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.898 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042046.D
Acq: 25 Feb 2025 11:34

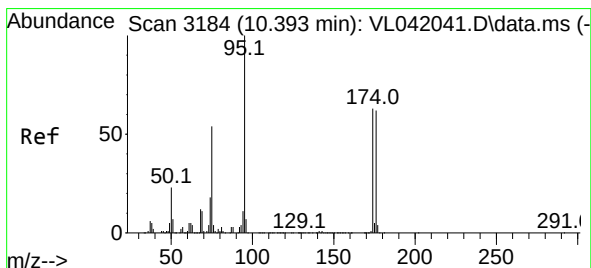
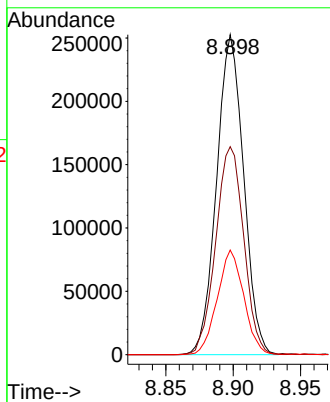
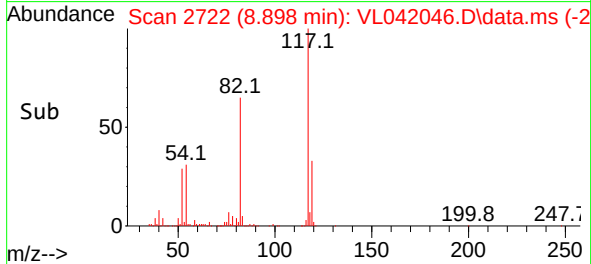
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03



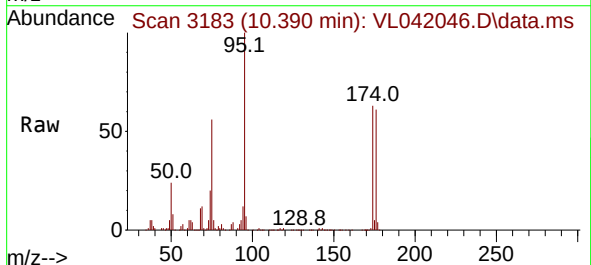
Tgt Ion: 117 Resp: 353154
Ion Ratio Lower Upper
117 100
82 67.3 55.0 82.6
119 32.2 25.9 38.9

Manual Integrations
APPROVED

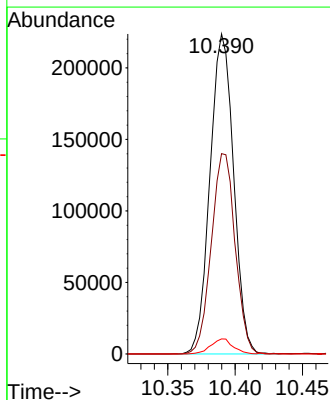
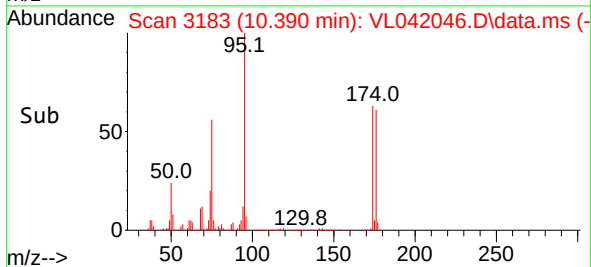
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.368 ppbv
RT: 10.390 min Scan# 3183
Delta R.T. -0.003 min
Lab File: VL042046.D
Acq: 25 Feb 2025 11:34



Tgt Ion: 95 Resp: 272906
Ion Ratio Lower Upper
95 100
174 63.3 51.8 77.6
175 4.5 3.9 5.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042047.D
 Acq On : 25 Feb 2025 12:07
 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 02/26/2025
 Supervised By : Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 12:35:10 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

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

QLast Update : Tue Feb 25 10:31:48 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.800	49	159015	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.978	114	401919	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.904	117	351637	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.393 95 273846 9.441 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 94.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	231978	8.474	ppbv	99
3) Chlorodifluoromethane	1.479	51	324821	10.733	ppbv	100
4) Chloromethane	1.537	50	82097	7.718	ppbv	98
5) Vinyl Chloride	1.586	62	81863	6.436	ppbv	99
6) Bromomethane	1.673	94	39366	7.983	ppbv	97
7) Chloroethane	1.709	64	33329	8.039	ppbv	92
8) Dichlorotetrafluoroethane	1.560	85	188716	7.837	ppbv	98
9) Propene	1.489	41	133086	10.201	ppbv	97
10) Heptane	5.004	43	400418	11.052	ppbv	99
11) Trichlorofluoromethane	1.884	101	230938	8.383	ppbv	95
12) 1,1,2-Trichlorotrifluo...	2.149	101	184306	8.579	ppbv	99
13) Ethanol	1.725	45	4281	2.909	ppbv	100
14) Bromoethene	1.787	108	65496	8.164	ppbv	99
15) Acetone	1.842	43	172538	6.574	ppbv	98
16) 1,3-Butadiene	1.615	39	87490	7.027	ppbv	100
17) tert-Butyl alcohol	2.049	59	239569	7.377	ppbv	98
18) 1,1-Dichloroethene	2.042	96	80535	7.845	ppbv	98
19) Isopropyl Alcohol	1.894	45	102365	6.955	ppbv	99
20) Methylene Chloride	2.068	84	66282	6.709	ppbv	98
21) Allyl Chloride	2.104	41	140726	7.406	ppbv	99
22) trans-1,2-Dichloroethene	2.350	96	94321	8.466	ppbv	95
23) Vinyl Acetate	2.473	43	139727	9.831	ppbv	99
24) 1,1-Dichloroethane	2.418	63	180882	7.997	ppbv	99
25) Ethyl Acetate	2.848	43	767353	10.652	ppbv	99
26) Hexane	2.839	57	306864	10.615	ppbv	99
27) Carbon Disulfide	2.159	76	224609	8.261	ppbv	98
28) Methyl tert-Butyl Ether	2.453	73	168058	9.510	ppbv	98
29) Chloroform	2.861	83	409240	9.774	ppbv	100
30) Cyclohexane	3.874	84	256687	10.946	ppbv	98
31) cis-1,2-Dichloroethene	2.732	61	299324	10.476	ppbv	96
32) 1,1,1-Trichloroethane	3.386	97	417615	8.994	ppbv	98
34) 2-Butanone	2.570	43	457602	13.234	ppbv	98
35) Carbon Tetrachloride	3.780	117	410730	10.524	ppbv	96
36) Benzene	3.674	78	602107	12.367	ppbv	97
37) 1,2-Dichloroethane	3.233	62	335275	12.097	ppbv	99
38) Trichloroethene	4.573	130	228298	11.542	ppbv	98
39) 1,2-Dichloropropane	4.337	63	228418	12.797	ppbv	98
40) 1,4-Dioxane	4.609	88	104519	11.253	ppbv #	96
41) Tetrahydrofuran	3.068	42	271202	13.724	ppbv	100
42) Bromodichloromethane	4.512	83	461272	12.285	ppbv	96
43) Methyl Methacrylate	4.907	69	246468	11.105	ppbv	97
44) 2,2,4-Trimethylpentane	4.667	57	1054880	12.763	ppbv	99
45) t-1,3-Dichloropropene	6.444	75	249612	11.914	ppbv	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042047.D
 Acq On : 25 Feb 2025 12:07
 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 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 12:35:10 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Feb 25 10:31:48 2025

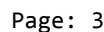
Response via : Initial Calibration

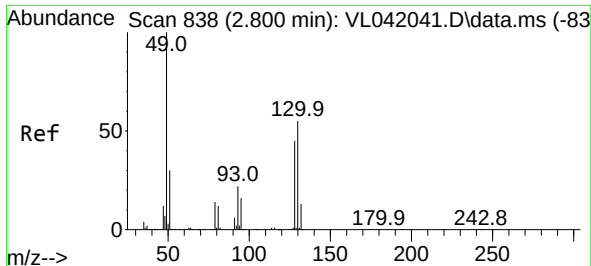
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.635	75	317266	11.935	ppbv	98
47) 1,1,2-Trichloroethane	6.609	97	226021	12.032	ppbv	95
48) Dibromochloromethane	7.412	129	369666	11.750	ppbv	99
49) Bromoform	9.503	173	317322	12.297	ppbv	99
50) 4-Methyl-2-Pentanone	5.787	43	650307	12.237	ppbv	99
51) 2-Hexanone	7.461	43	530165	12.198	ppbv #	100
52) Tetrachloroethene	8.247	164	203233	11.968	ppbv	94
53) Toluene	6.959	91	673822	11.615	ppbv	99
54) 1,2-Dibromoethane	7.677	107	309982	11.985	ppbv	95
56) 1,1,1,2-Tetrachloroethane	8.946	131	276326	10.979	ppbv	99
57) Chlorobenzene	8.943	112	494606	11.957	ppbv	98
58) Ethyl Benzene	9.373	91	922265	11.984	ppbv	100
59) m/p-Xylene	9.571	91	1456036m	24.020	ppbv	
60) o-Xylene	9.982	91	712735	11.626	ppbv	99
61) Styrene	9.888	104	363855	12.446	ppbv	99
62) Isopropylbenzene	10.558	105	1068777	11.612	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.982	83	459839	11.626	ppbv	100
64) n-propylbenzene	11.005	120	282364	12.486	ppbv	99
65) tert-Butylbenzene	11.548	119	924810	11.526	ppbv	99
66) Benzyl Chloride	11.633	91	78975	9.819	ppbv	98
67) sec-Butylbenzene	11.785	105	1315730	11.674	ppbv	99
69) p-Isopropyltoluene	11.940	119	1084253	11.752	ppbv	99
70) n-Butylbenzene	12.296	91	1118373	12.306	ppbv	99
71) 2-Chlorotoluene	10.917	91	818204	11.804	ppbv	100
72) 4-Ethyltoluene	11.141	105	880883	12.264	ppbv	99
73) 1,3,5-Trimethylbenzene	11.218	105	738619	11.921	ppbv	98
74) 1,2,4-Trimethylbenzene	11.552	105	784701	11.801	ppbv	91
75) 1,3-Dichlorobenzene	11.623	146	465436	13.003	ppbv	98
76) 1,4-Dichlorobenzene	11.688	146	467249	13.386	ppbv	99
77) 1,2-Dichlorobenzene	11.963	146	449222	13.129	ppbv	98
78) Hexachloro-1,3-Butadiene	13.895	225	351085	12.403	ppbv	100
79) Naphthalene	13.526	128	764990	11.696	ppbv	99
80) Naphthalene,2-methyl-	14.471	142	324431	10.956	ppbv	99
81) 1,2,4-Trichlorobenzene	13.455	180	354990	13.351	ppbv	99

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

Manual Integrations

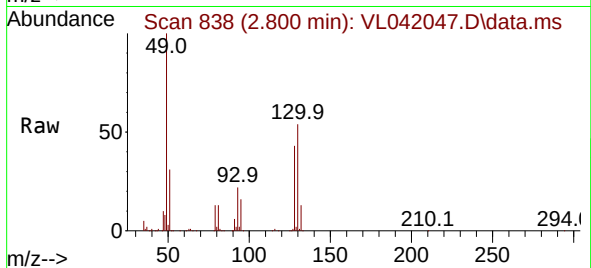
Quant Time: Feb 25 12:35:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL02252SAIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Feb 25 10:31:48 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 838
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

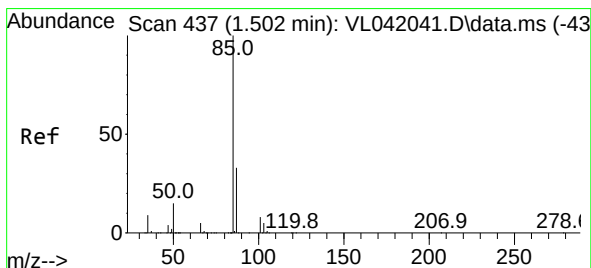
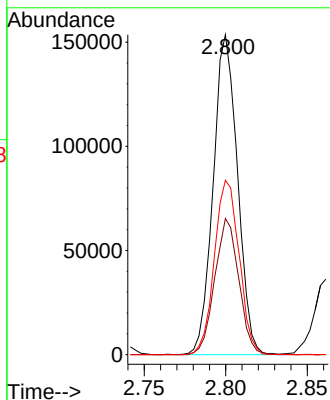
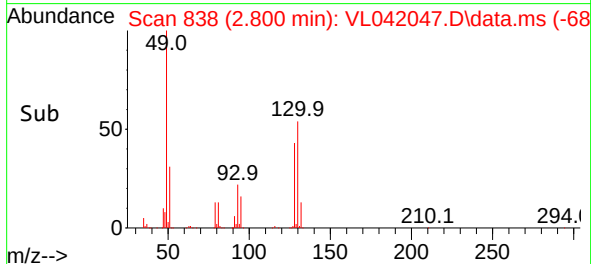
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



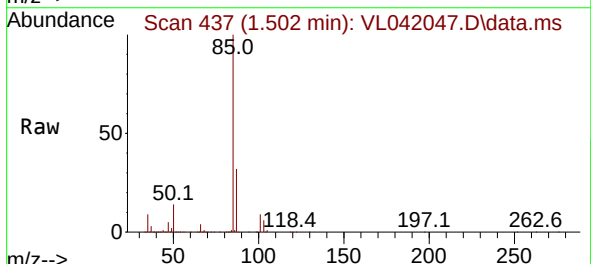
Tgt Ion: 49 Resp: 159015
Ion Ratio Lower Upper
49 100
128 42.1 21.6 64.8
130 55.6 27.8 83.4

Manual Integrations
APPROVED

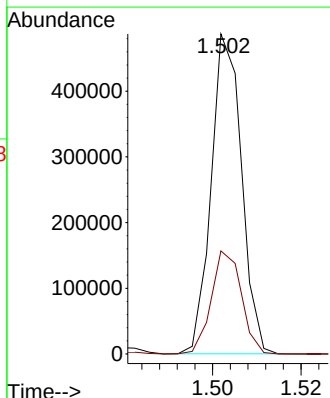
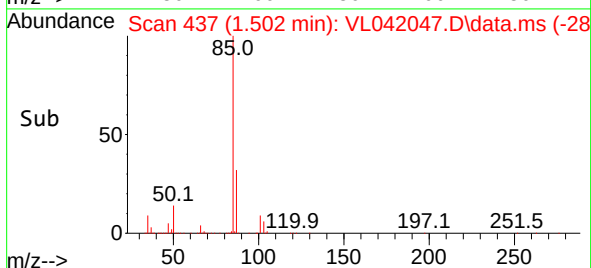
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

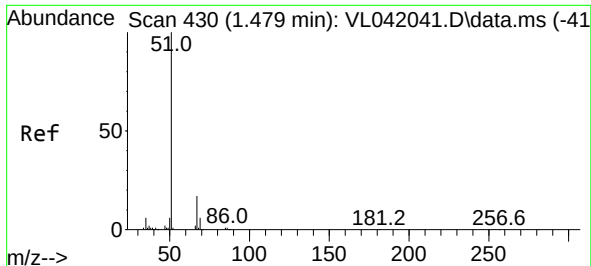


#2
Dichlorodifluoromethane
Concen: 8.474 ppbv
RT: 1.502 min Scan# 437
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07



Tgt Ion: 85 Resp: 231978
Ion Ratio Lower Upper
85 100
87 32.2 26.4 39.6





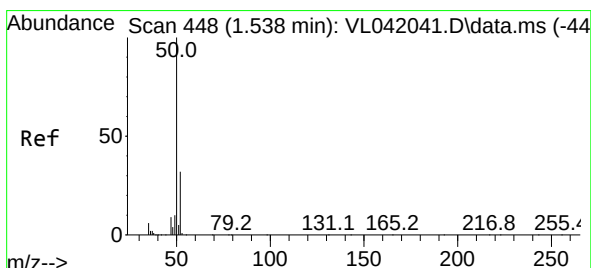
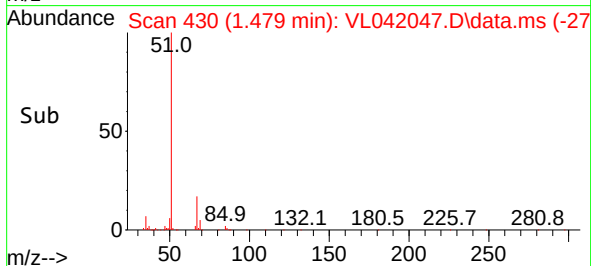
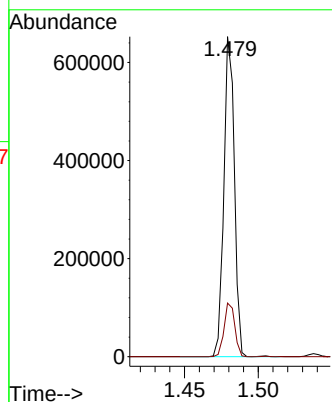
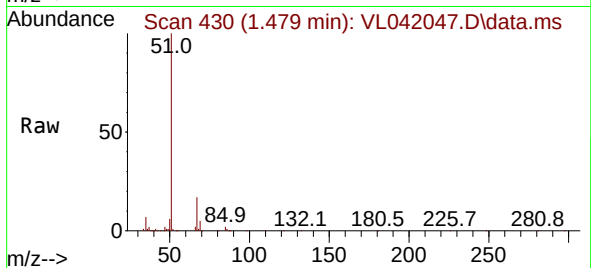
#3
Chlorodifluoromethane
Concen: 10.733 ppbv
RT: 1.479 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 51 Resp: 32482
Ion Ratio Lower Upper
51 100
67 17.1 13.7 20.5

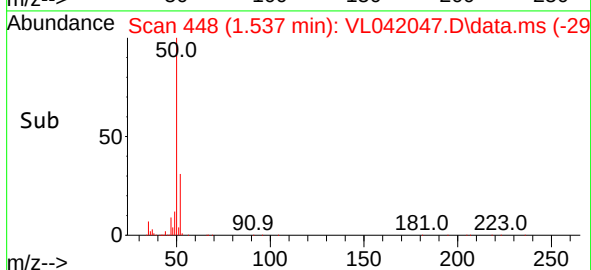
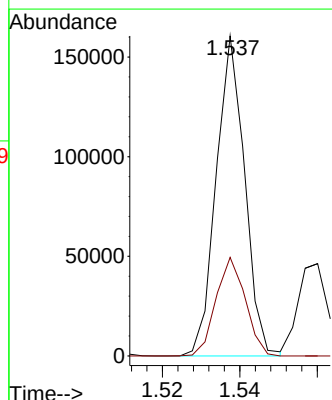
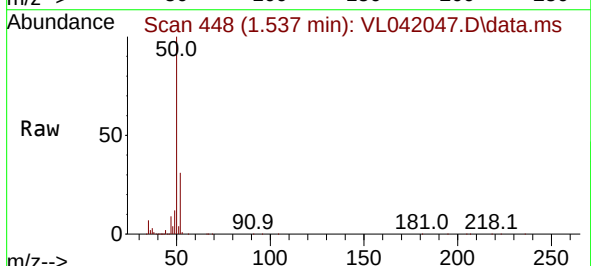
Manual Integrations
APPROVED

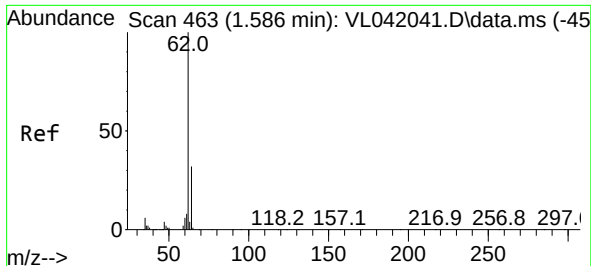
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#4
Chloromethane
Concen: 7.718 ppbv
RT: 1.537 min Scan# 448
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

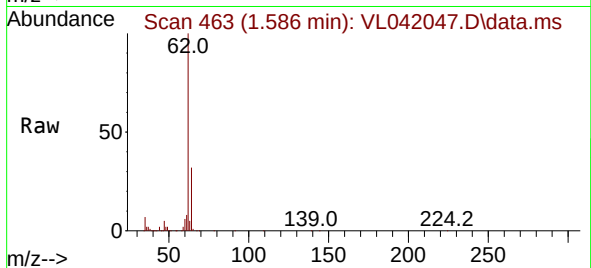
Tgt Ion: 50 Resp: 82097
Ion Ratio Lower Upper
50 100
52 30.8 25.4 38.0





#5
 Vinyl Chloride
 Concen: 6.436 ppbv
 RT: 1.586 min Scan# 408
 Delta R.T. -0.000 min
 Lab File: VL042047.D
 Acq: 25 Feb 2025 12:07

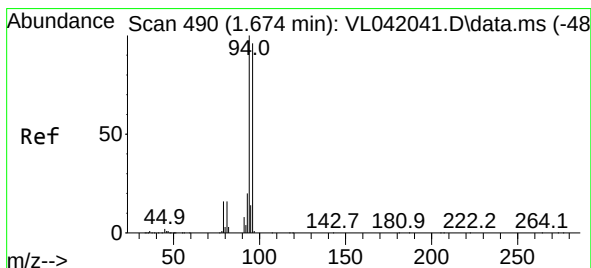
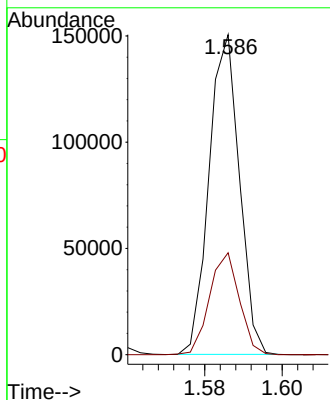
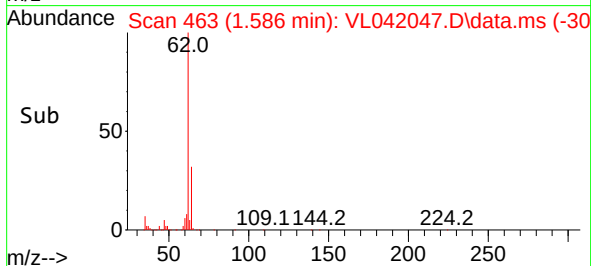
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



Tgt Ion: 62 Resp: 81863
 Ion Ratio Lower Upper
 62 100
 64 31.9 25.3 37.9

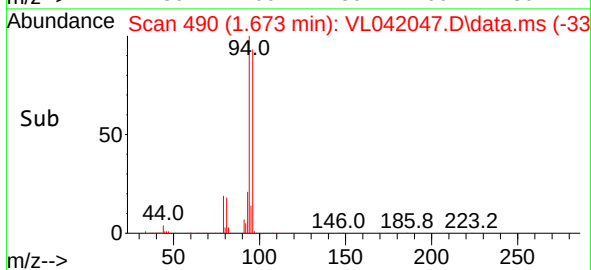
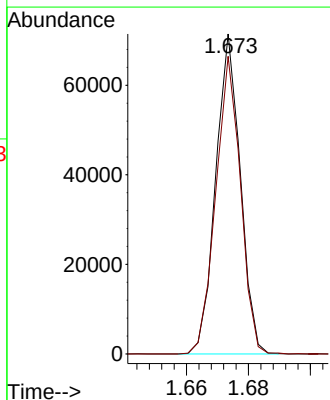
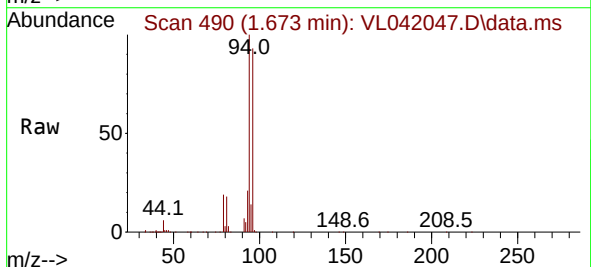
Manual Integrations
 APPROVED

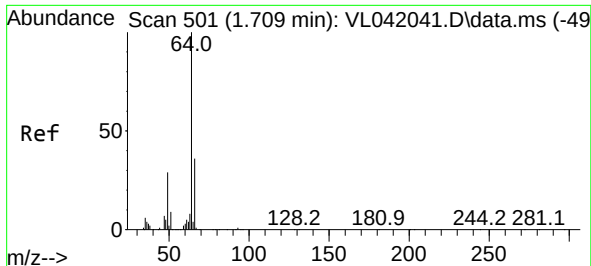
Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025



#6
 Bromomethane
 Concen: 7.983 ppbv
 RT: 1.673 min Scan# 490
 Delta R.T. -0.000 min
 Lab File: VL042047.D
 Acq: 25 Feb 2025 12:07

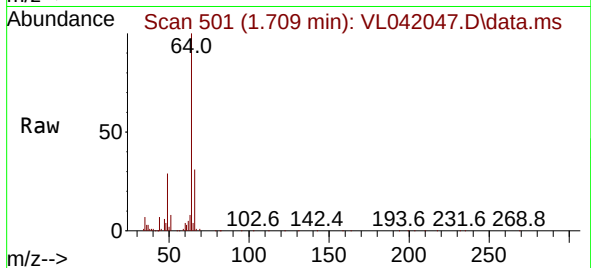
Tgt Ion: 94 Resp: 39366
 Ion Ratio Lower Upper
 94 100
 96 93.0 76.5 114.7





#7
Chloroethane
Concen: 8.039 ppbv
RT: 1.709 min Scan# 501
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

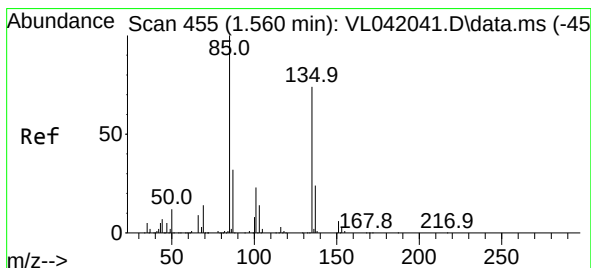
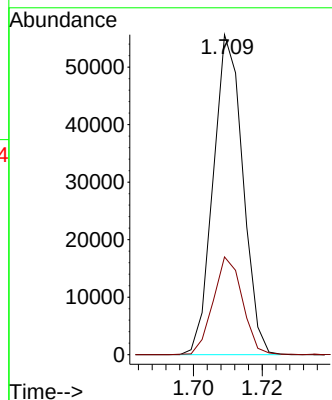
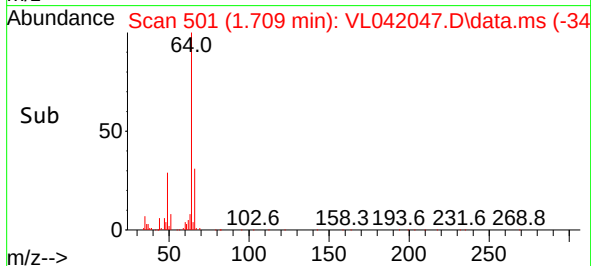
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion: 64 Resp: 33329
Ion Ratio Lower Upper
64 100
66 30.6 28.4 42.6

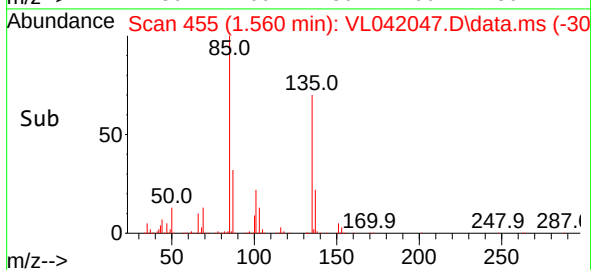
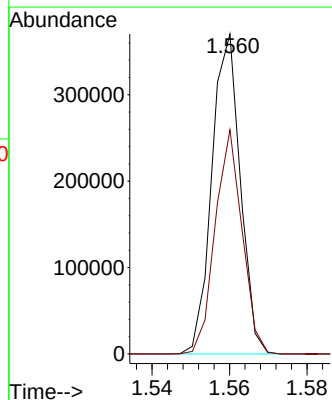
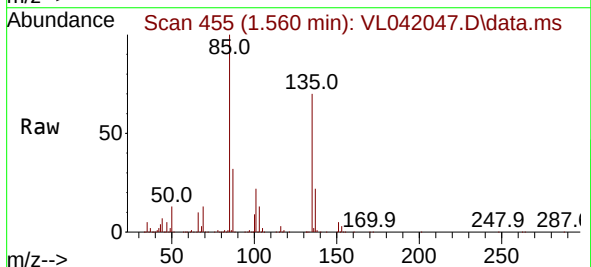
Manual Integrations
APPROVED

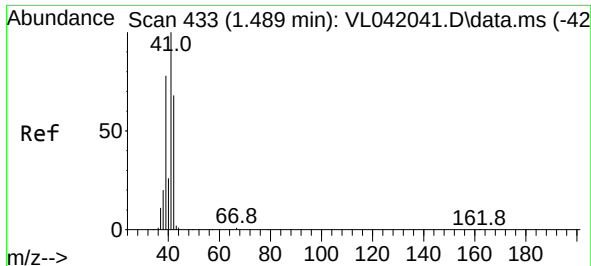
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#8
Dichlorotetrafluoroethane
Concen: 7.837 ppbv
RT: 1.560 min Scan# 455
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

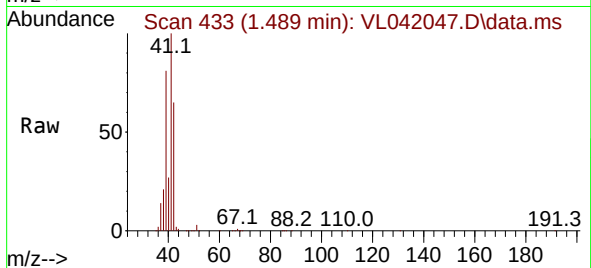
Tgt Ion: 85 Resp: 188716
Ion Ratio Lower Upper
85 100
135 66.5 54.6 81.8





#9
Propene
Concen: 10.201 ppbv
RT: 1.489 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

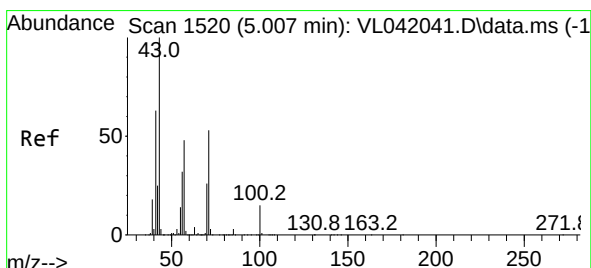
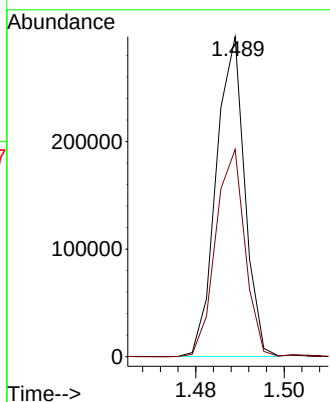
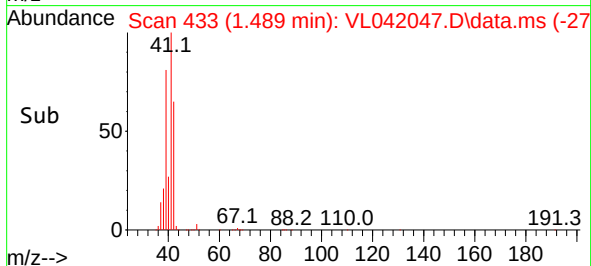
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



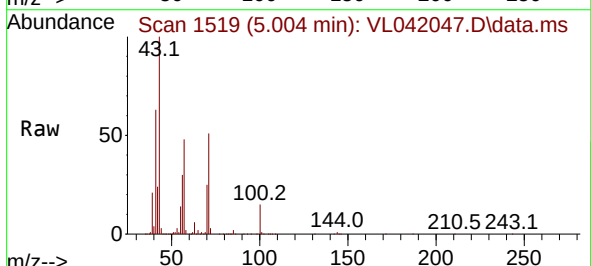
Tgt Ion: 41 Resp: 133080
Ion Ratio Lower Upper
41 100
42 67.4 55.8 83.6

Manual Integrations
APPROVED

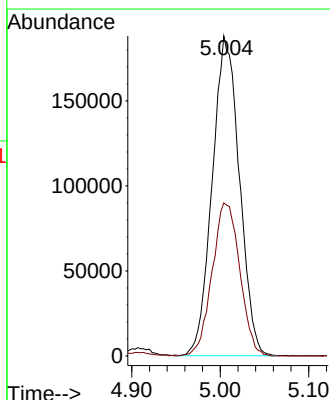
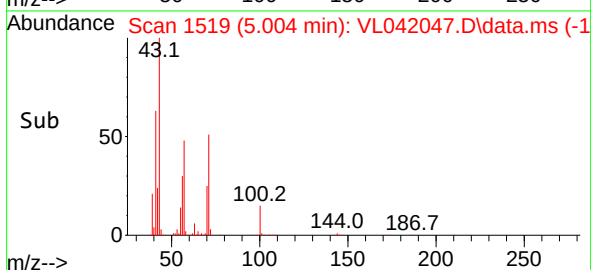
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

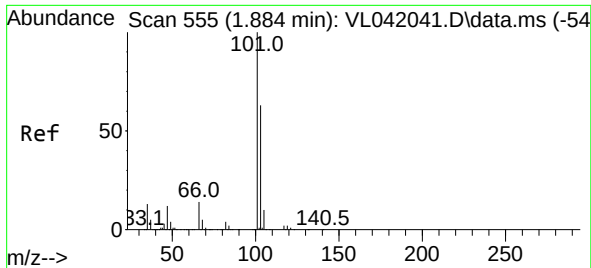


#10
Heptane
Concen: 11.052 ppbv
RT: 5.004 min Scan# 1519
Delta R.T. -0.004 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07



Tgt Ion: 43 Resp: 400418
Ion Ratio Lower Upper
43 100
57 48.8 39.4 59.0





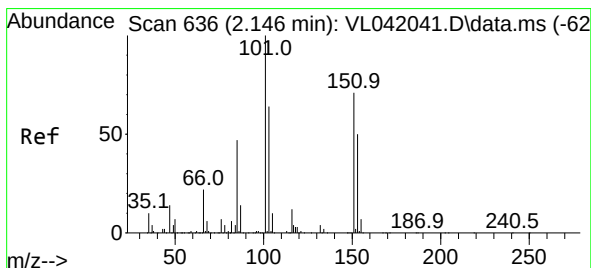
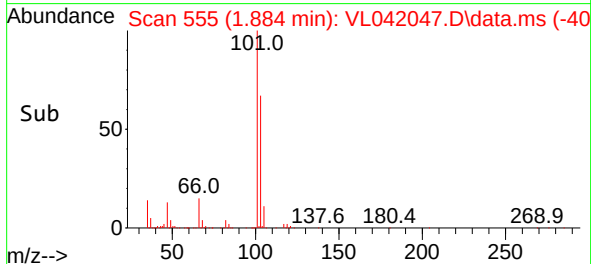
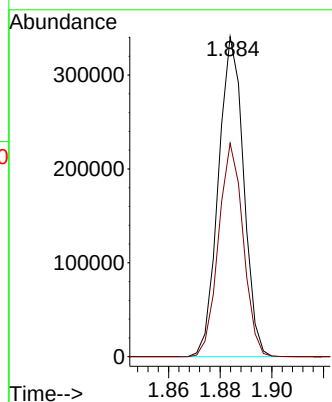
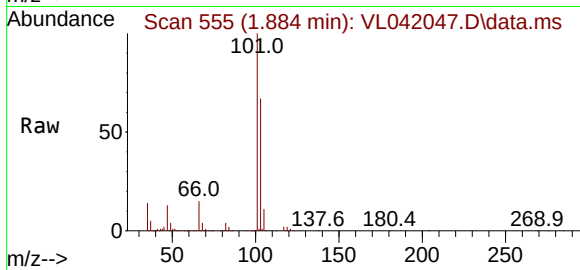
#11
 Trichlorofluoromethane
 Concen: 8.383 ppbv
 RT: 1.884 min Scan# 511
 Delta R.T. -0.000 min
 Lab File: VL042047.D
 Acq: 25 Feb 2025 12:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion:101 Resp: 230938
 Ion Ratio Lower Upper
 101 100
 103 66.7 50.6 75.8

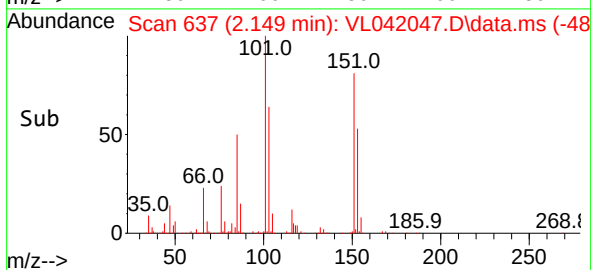
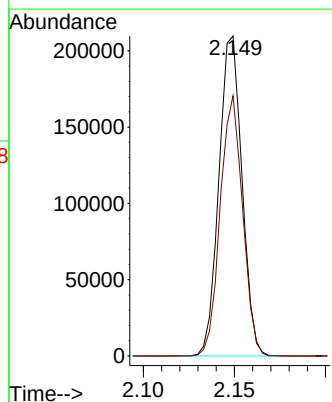
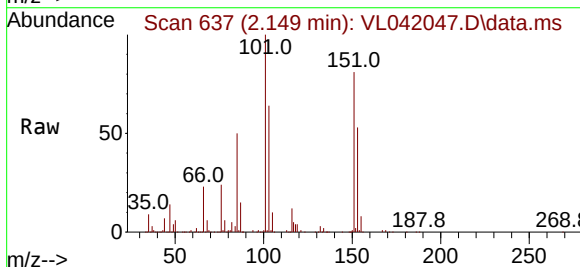
Manual Integrations
 APPROVED

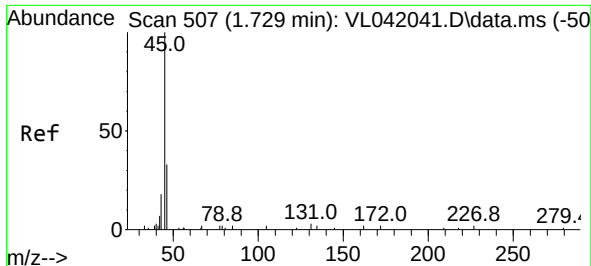
Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 8.579 ppbv
 RT: 2.149 min Scan# 637
 Delta R.T. 0.003 min
 Lab File: VL042047.D
 Acq: 25 Feb 2025 12:07

Tgt Ion:101 Resp: 184306
 Ion Ratio Lower Upper
 101 100
 151 79.1 62.6 94.0





#13

Ethanol

Concen: 2.909 ppbv

RT: 1.725 min Scan# 507

Delta R.T. -0.003 min

Lab File: VL042047.D

Acq: 25 Feb 2025 12:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 45 Resp: 428

Ion Ratio Lower Upper

45 100

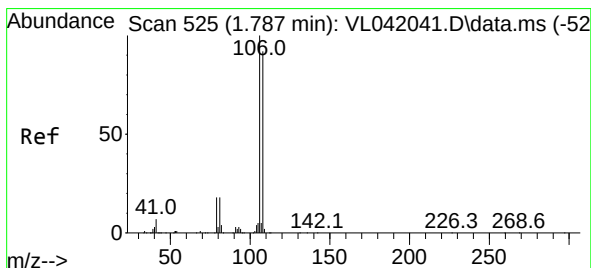
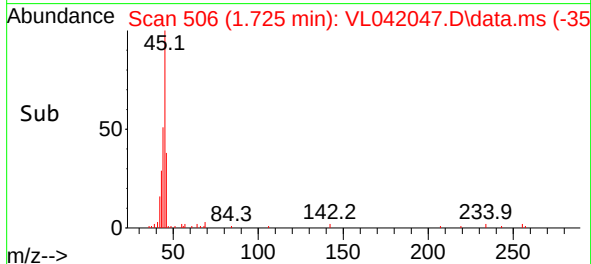
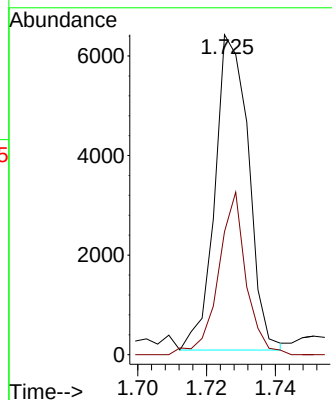
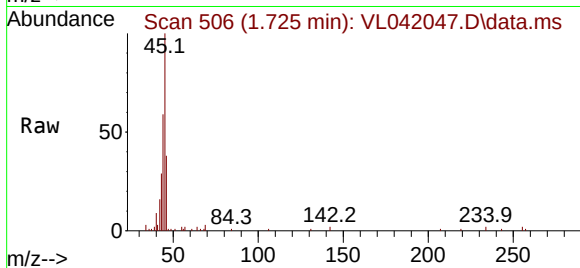
46 42.7 17.1 68.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025

Supervised By :Mahesh Dadoda 02/26/2025



#14

Bromoethene

Concen: 8.164 ppbv

RT: 1.787 min Scan# 525

Delta R.T. -0.000 min

Lab File: VL042047.D

Acq: 25 Feb 2025 12:07

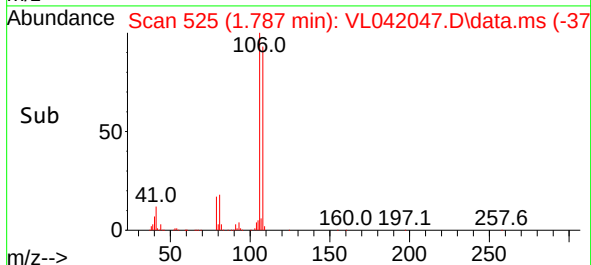
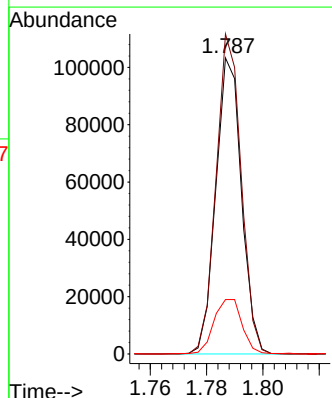
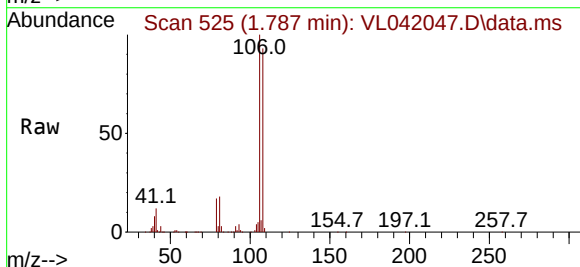
Tgt Ion:108 Resp: 65496

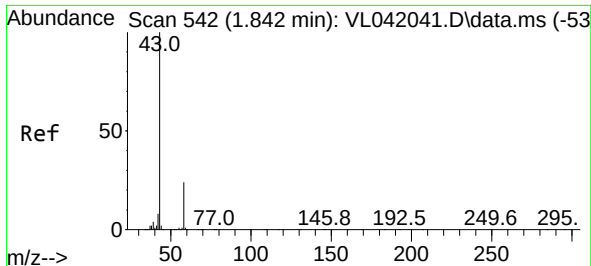
Ion Ratio Lower Upper

108 100

106 105.7 85.4 128.0

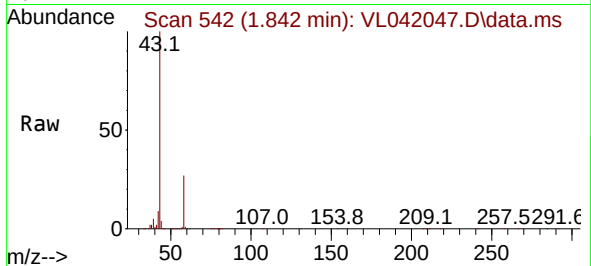
79 20.5 16.5 24.7





#15
Acetone
Concen: 6.574 ppbv
RT: 1.842 min Scan# 542
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

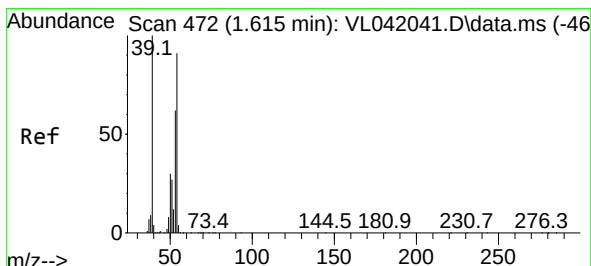
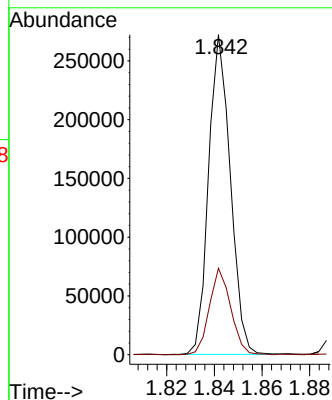
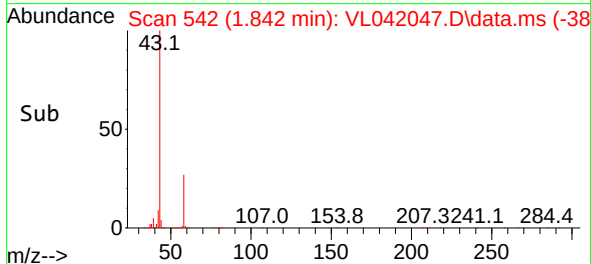
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion: 43 Resp: 172538
Ion Ratio Lower Upper
43 100
58 26.7 20.7 31.1

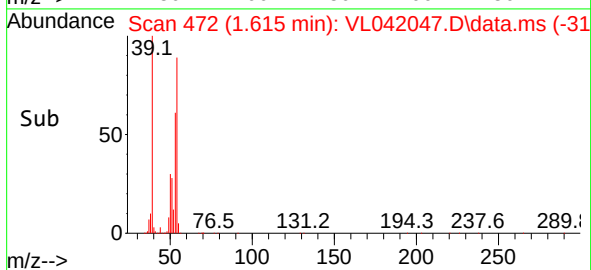
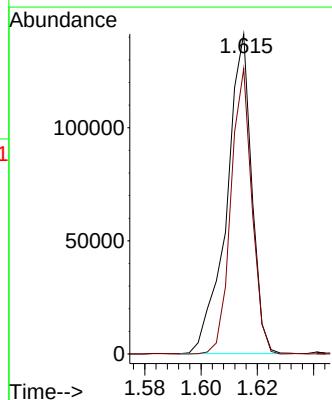
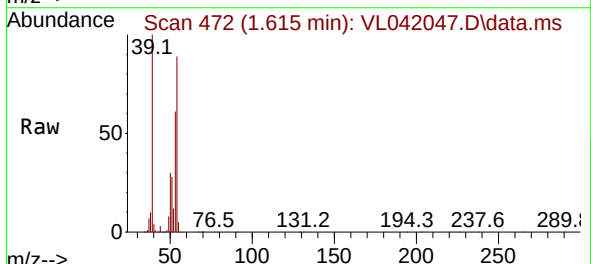
Manual Integrations
APPROVED

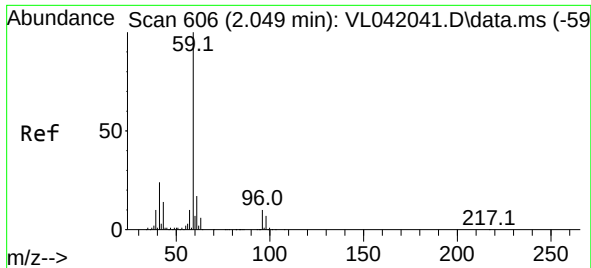
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#16
1,3-Butadiene
Concen: 7.027 ppbv
RT: 1.615 min Scan# 472
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 39 Resp: 87490
Ion Ratio Lower Upper
39 100
54 74.6 59.6 89.4





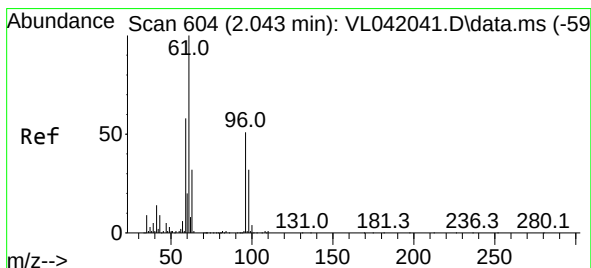
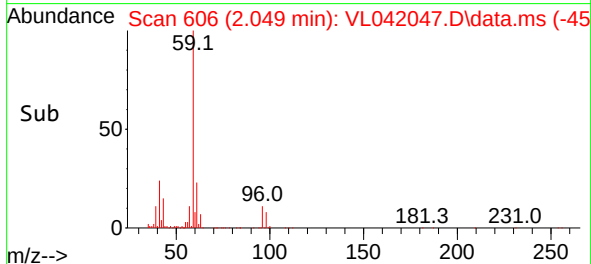
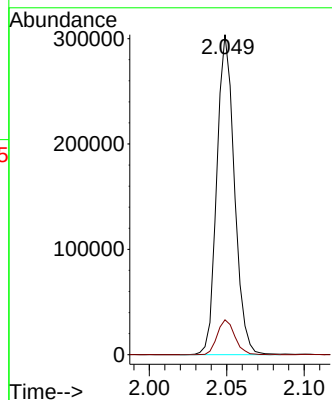
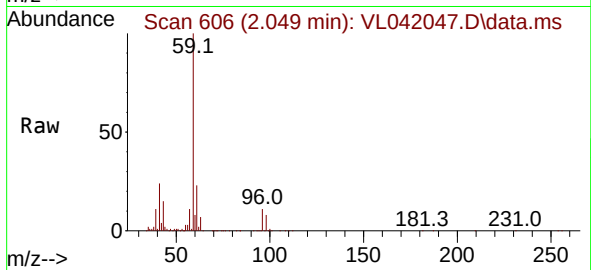
#17
tert-Butyl alcohol
Concen: 7.377 ppbv
RT: 2.049 min Scan# 606
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 59 Resp: 23956
Ion Ratio Lower Upper
59 100
57 10.9 9.3 13.9

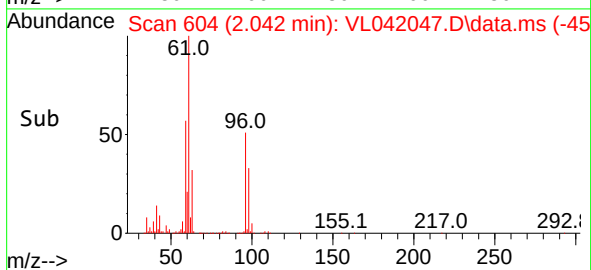
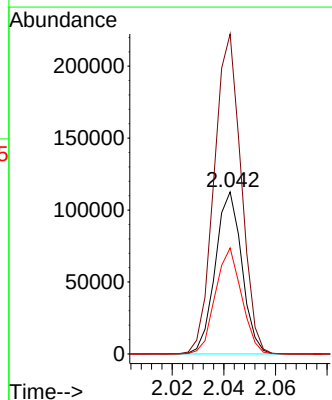
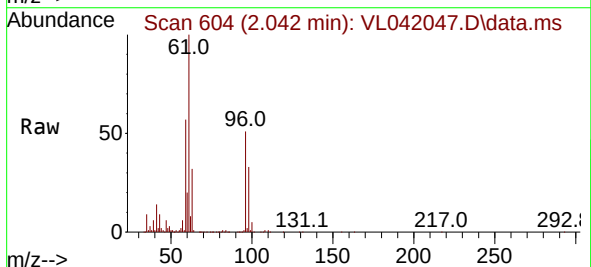
Manual Integrations
APPROVED

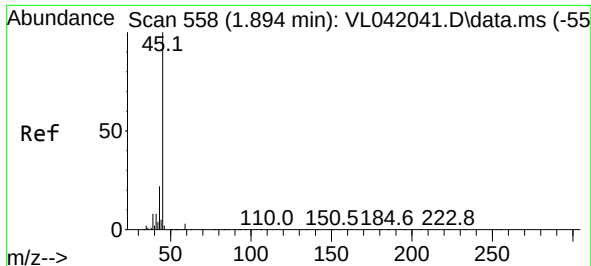
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#18
1,1-Dichloroethene
Concen: 7.845 ppbv
RT: 2.042 min Scan# 604
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

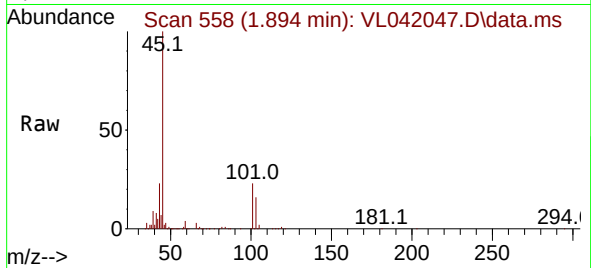
Tgt Ion: 96 Resp: 80535
Ion Ratio Lower Upper
96 100
61 197.3 156.0 234.0
98 65.4 49.4 74.2





#19
Isopropyl Alcohol
Concen: 6.955 ppbv
RT: 1.894 min Scan# 558
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

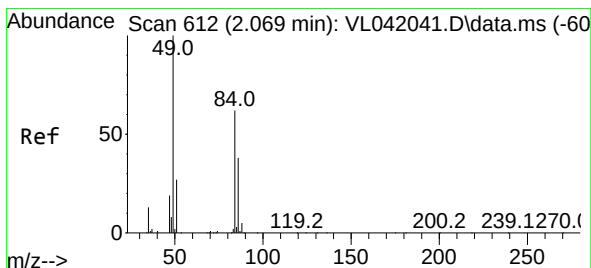
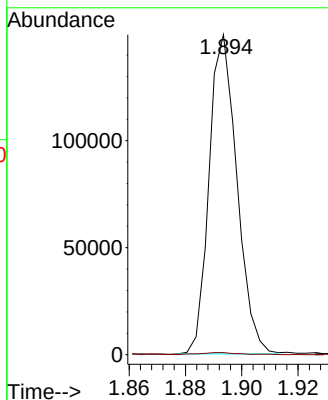
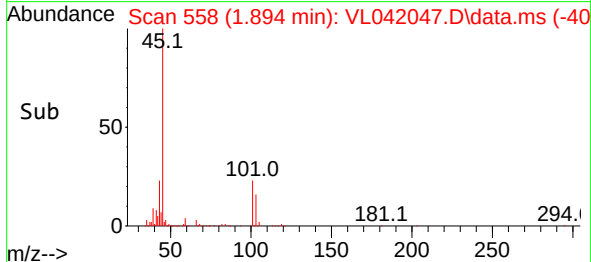
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



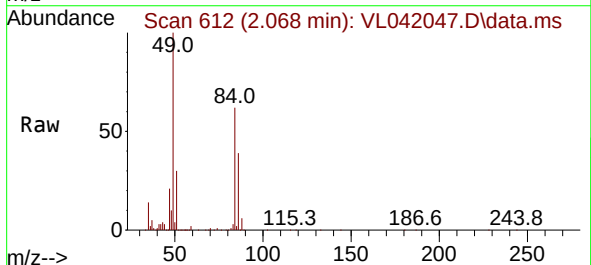
Tgt Ion: 45 Resp: 102368
Ion Ratio Lower Upper
45 100
58 45.1 35.3 52.9

Manual Integrations
APPROVED

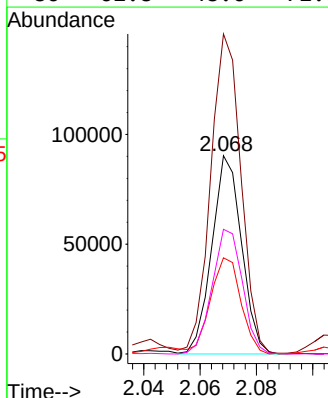
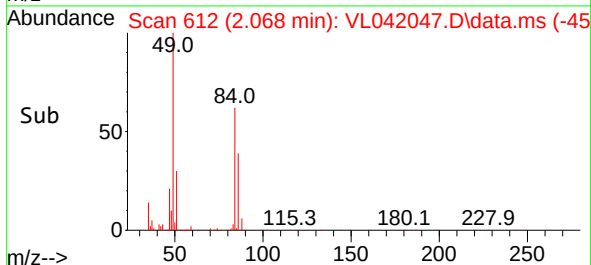
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

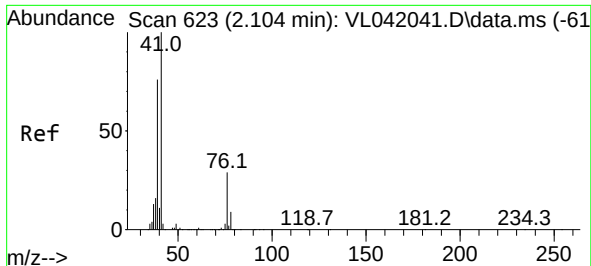


#20
Methylene Chloride
Concen: 6.709 ppbv
RT: 2.068 min Scan# 612
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07



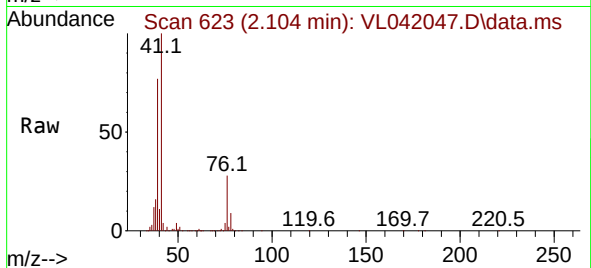
Tgt Ion: 84 Resp: 66282
Ion Ratio Lower Upper
84 100
49 161.0 130.0 195.0
51 48.1 37.4 56.0
86 62.8 48.6 72.8





#21
 Allyl Chloride
 Concen: 7.406 ppbv
 RT: 2.104 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: VL042047.D
 Acq: 25 Feb 2025 12:07

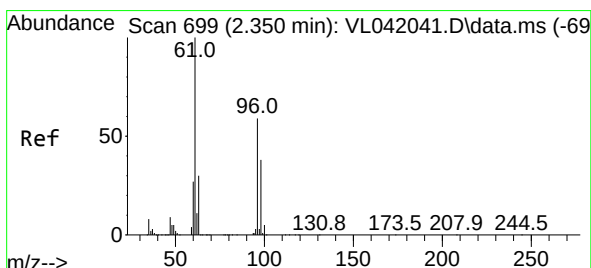
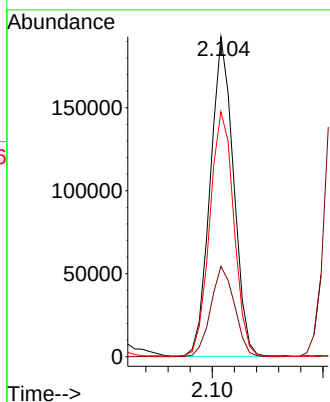
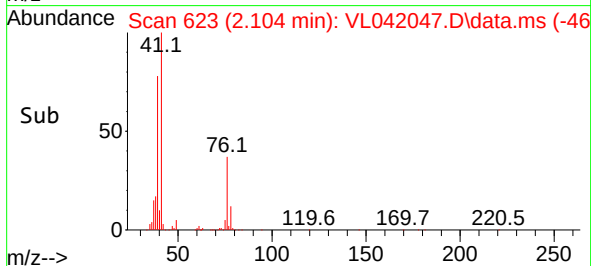
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



Tgt Ion: 41 Resp: 140720
 Ion Ratio Lower Upper
 41 100
 76 28.8 23.8 35.6
 39 79.2 63.8 95.6

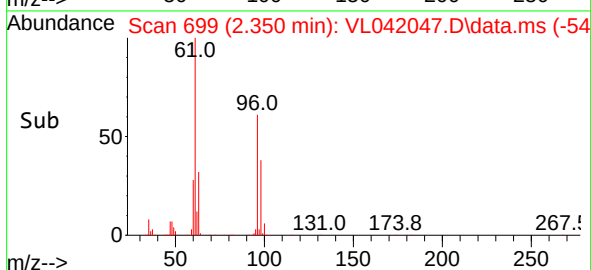
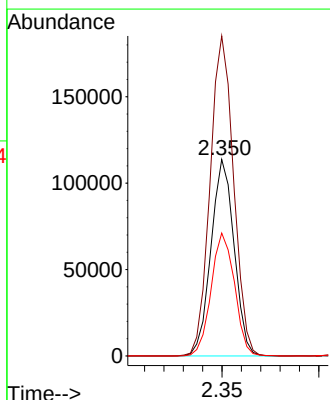
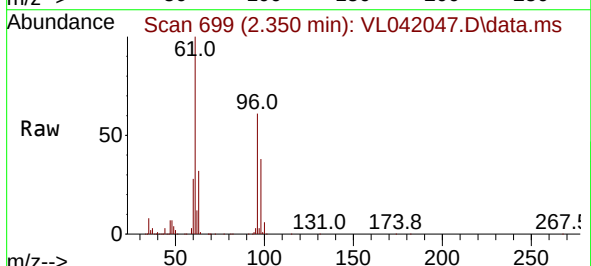
Manual Integrations
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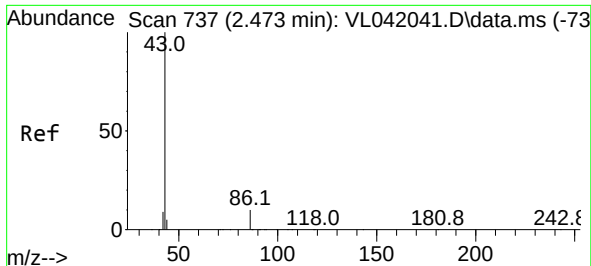
Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025



#22
 trans-1,2-Dichloroethene
 Concen: 8.466 ppbv
 RT: 2.350 min Scan# 699
 Delta R.T. -0.000 min
 Lab File: VL042047.D
 Acq: 25 Feb 2025 12:07

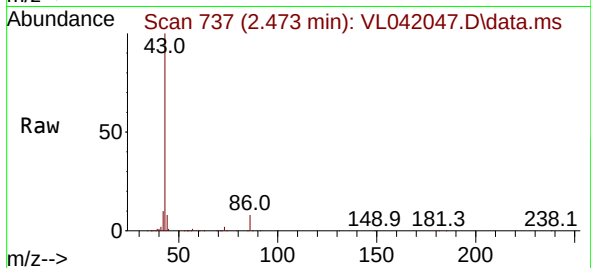
Tgt Ion: 96 Resp: 94321
 Ion Ratio Lower Upper
 96 100
 61 162.9 136.6 205.0
 98 62.6 51.8 77.6





#23
 Vinyl Acetate
 Concen: 9.831 ppbv
 RT: 2.473 min Scan# 737
 Delta R.T. -0.000 min
 Lab File: VL042047.D
 Acq: 25 Feb 2025 12:07

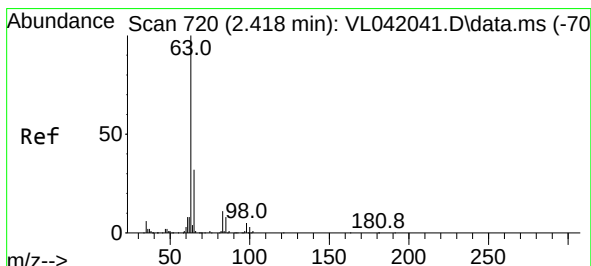
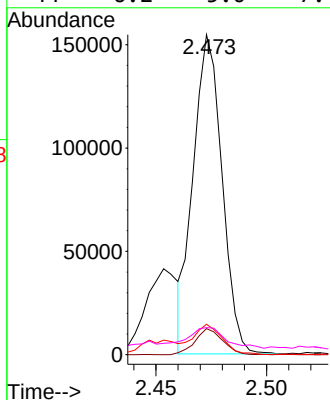
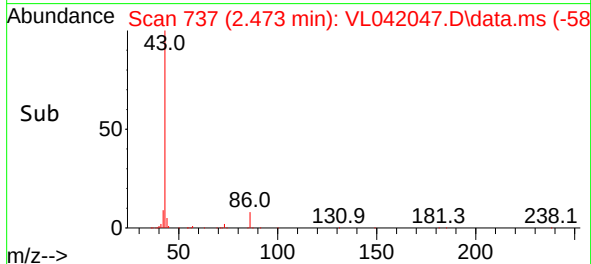
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



Tgt Ion: 43 Resp: 13972
 Ion Ratio Lower Upper
 43 100
 86 8.1 7.0 10.4
 42 9.5 7.6 11.4
 44 6.2 5.0 7.4

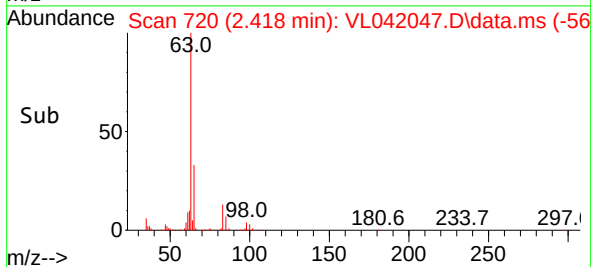
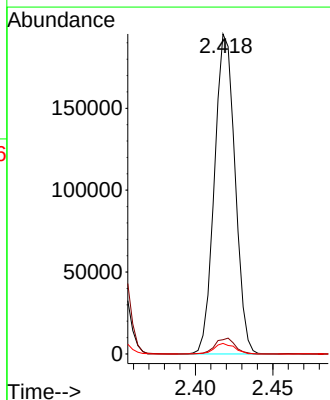
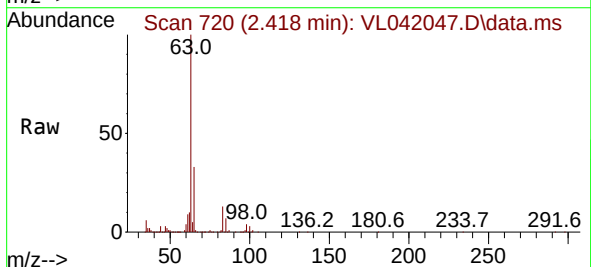
Manual Integrations
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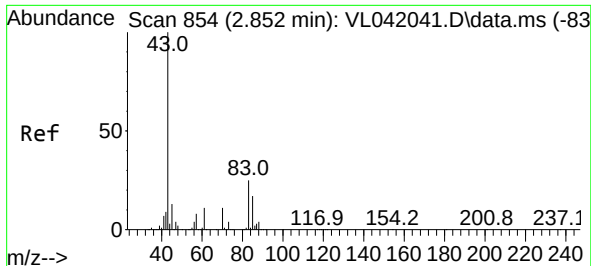
Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025



#24
 1,1-Dichloroethane
 Concen: 7.997 ppbv
 RT: 2.418 min Scan# 720
 Delta R.T. -0.000 min
 Lab File: VL042047.D
 Acq: 25 Feb 2025 12:07

Tgt Ion: 63 Resp: 180882
 Ion Ratio Lower Upper
 63 100
 98 4.4 2.4 7.2
 100 3.3 1.7 5.0





#25

Ethyl Acetate

Concen: 10.652 ppbv

RT: 2.848 min Scan# 81

Delta R.T. -0.004 min

Lab File: VL042047.D

Acq: 25 Feb 2025 12:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

Tgt Ion: 43 Resp: 76735

Ion Ratio Lower Upper

43 100

45 10.4 8.1 12.1

61 9.1 7.2 10.8

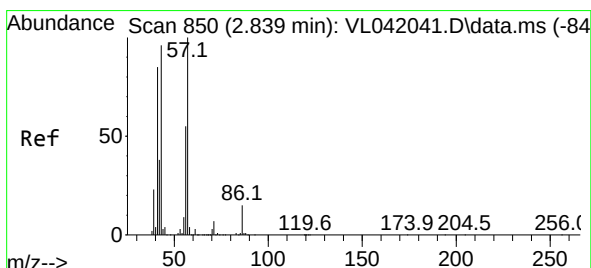
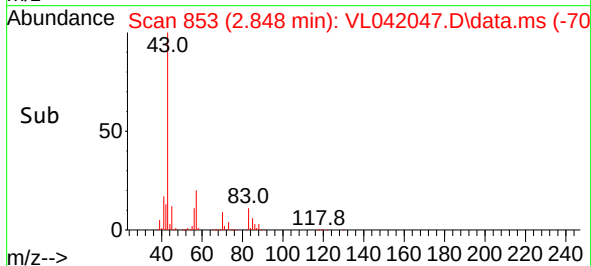
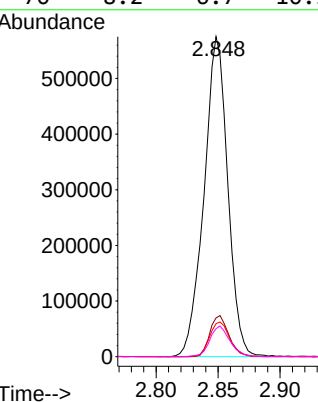
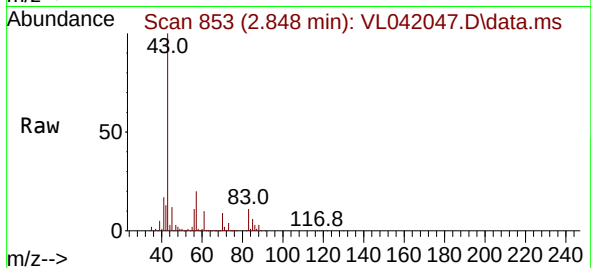
70 8.2 6.7 10.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025

Supervised By :Mahesh Dadoda 02/26/2025



#26

Hexane

Concen: 10.615 ppbv

RT: 2.839 min Scan# 850

Delta R.T. -0.000 min

Lab File: VL042047.D

Acq: 25 Feb 2025 12:07

Tgt Ion: 57 Resp: 306864

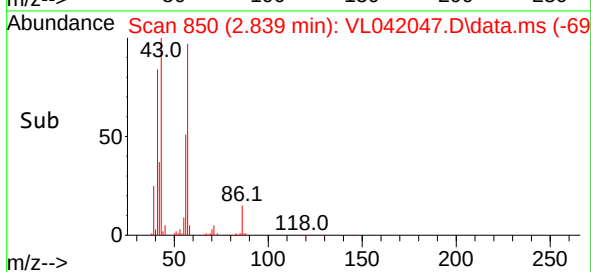
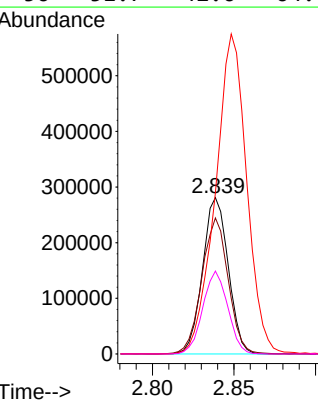
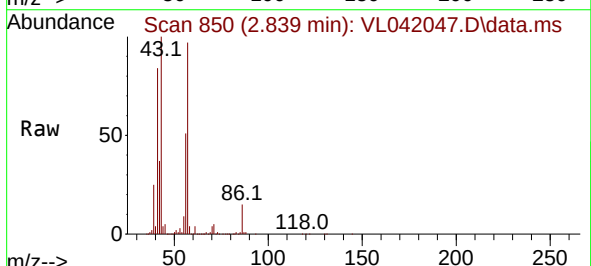
Ion Ratio Lower Upper

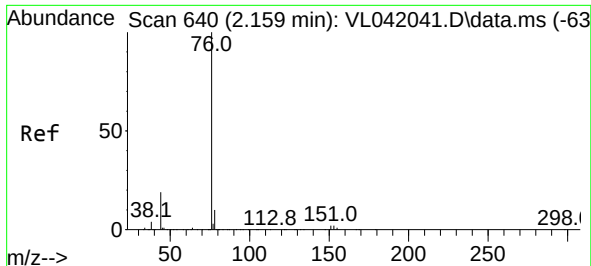
57 100

41 89.9 70.6 106.0

43 250.3 199.4 299.0

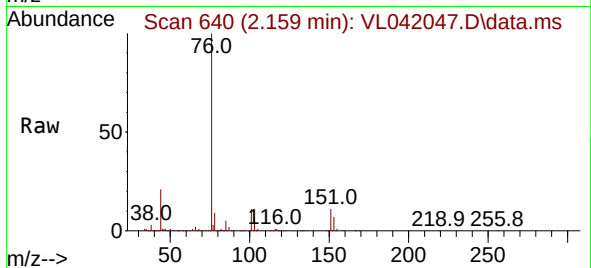
56 51.7 42.6 64.0





#27
Carbon Disulfide
Concen: 8.261 ppbv
RT: 2.159 min Scan# 640
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

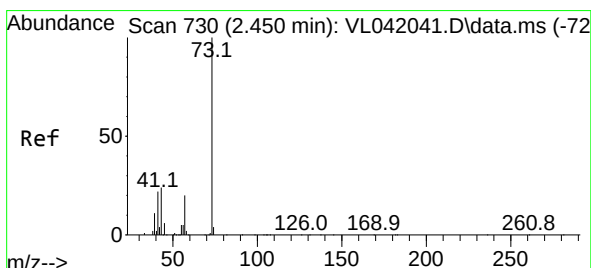
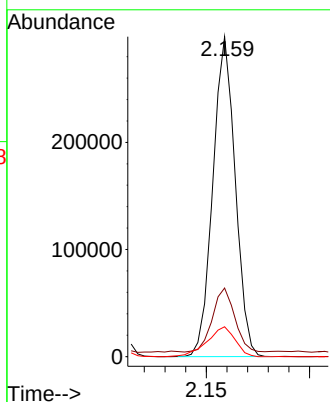
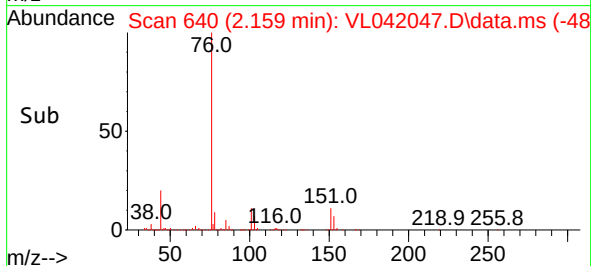
Instrument : MSVOA_L
ClientSampleId : VSTDIC015



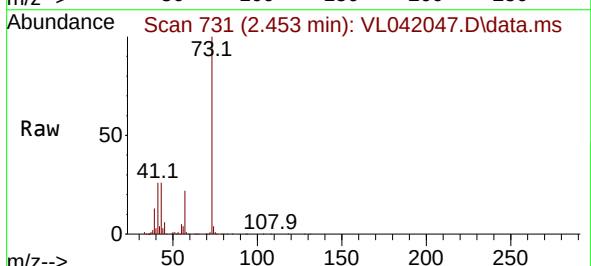
Tgt Ion: 76 Resp: 224609
Ion Ratio Lower Upper
76 100
44 21.3 16.2 24.2
78 11.7 9.4 14.0

Manual Integrations
APPROVED

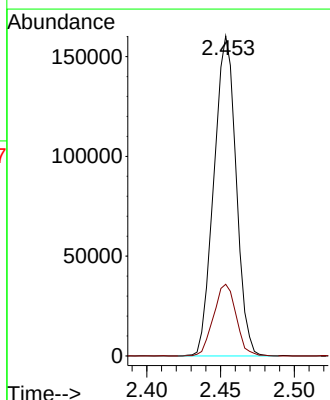
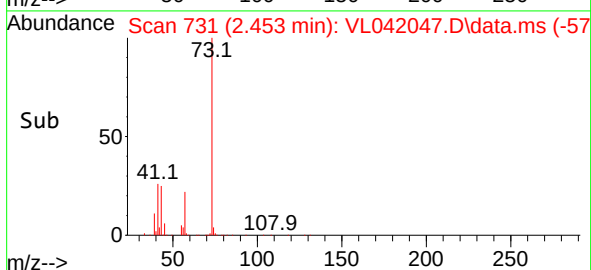
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

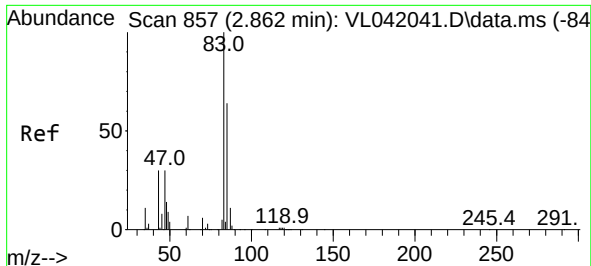


#28
Methyl tert-Butyl Ether
Concen: 9.510 ppbv
RT: 2.453 min Scan# 731
Delta R.T. 0.003 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07



Tgt Ion: 73 Resp: 168058
Ion Ratio Lower Upper
73 100
57 22.9 17.7 26.5





#29

Chloroform

Concen: 9.774 ppbv

RT: 2.861 min Scan# 857

Delta R.T. -0.000 min

Lab File: VL042047.D

Acq: 25 Feb 2025 12:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 83 Resp: 409240

Ion Ratio Lower Upper

83 100

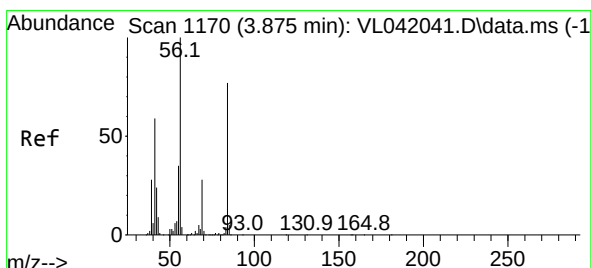
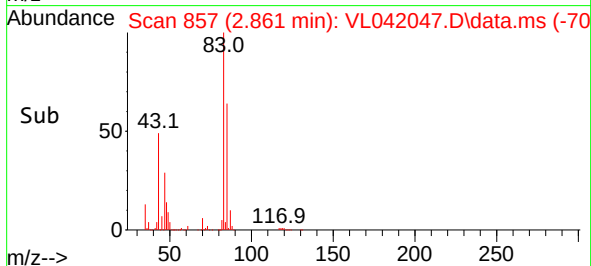
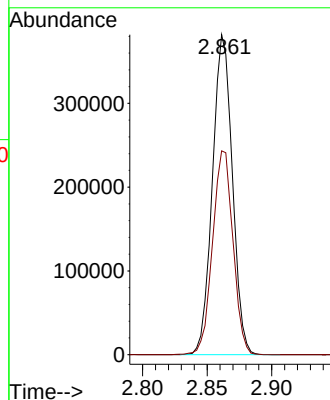
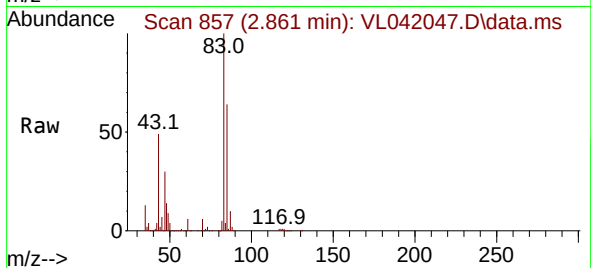
85 63.7 51.2 76.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025

Supervised By :Mahesh Dadoda 02/26/2025



#30

Cyclohexane

Concen: 10.946 ppbv

RT: 3.874 min Scan# 1170

Delta R.T. -0.000 min

Lab File: VL042047.D

Acq: 25 Feb 2025 12:07

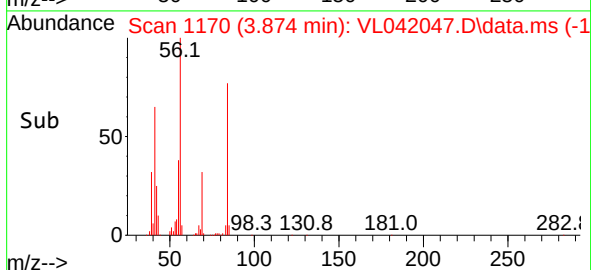
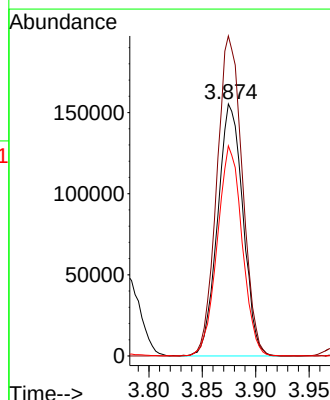
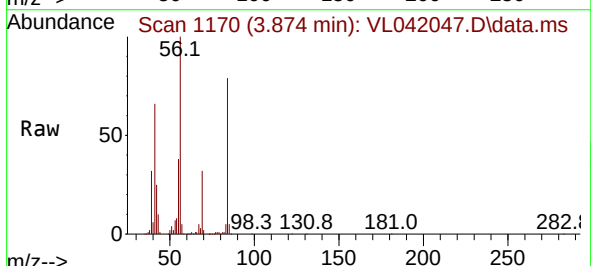
Tgt Ion: 84 Resp: 256687

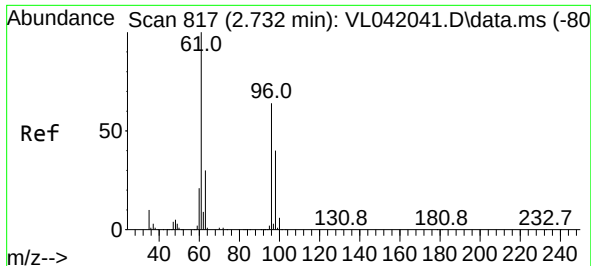
Ion Ratio Lower Upper

84 100

56 127.5 101.5 152.3

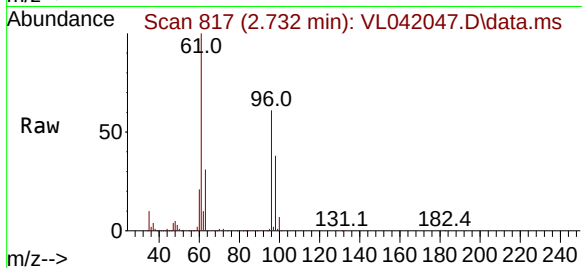
41 81.7 62.6 93.8





#31
 cis-1,2-Dichloroethene
 Concen: 10.476 ppbv
 RT: 2.732 min Scan# 817
 Delta R.T. -0.000 min
 Lab File: VL042047.D
 Acq: 25 Feb 2025 12:07

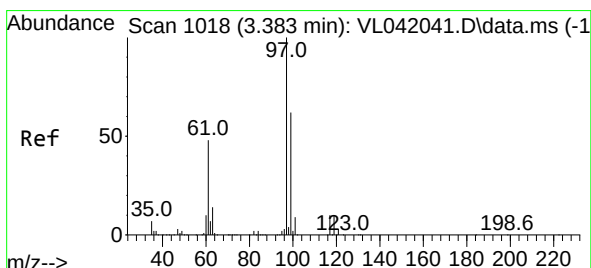
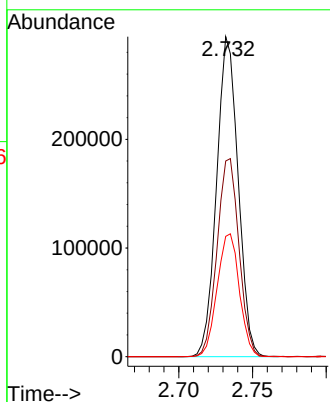
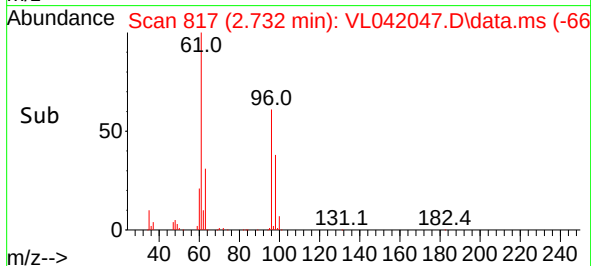
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015



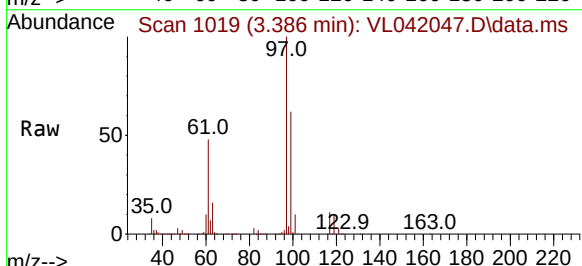
Tgt Ion: 61 Resp: 299324
 Ion Ratio Lower Upper
 61 100
 96 61.2 51.5 77.3
 98 37.6 32.0 48.0

Manual Integrations
 APPROVED

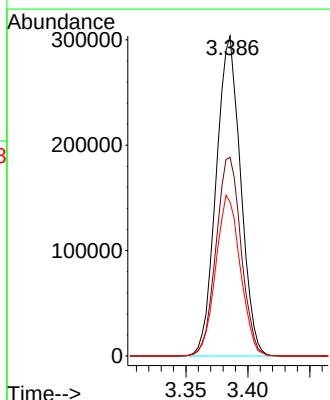
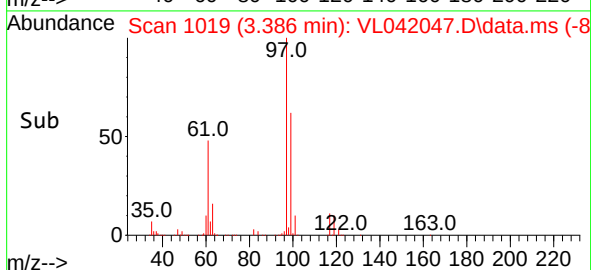
Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025

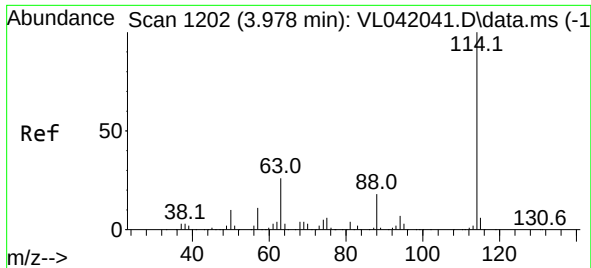


#32
 1,1,1-Trichloroethane
 Concen: 8.994 ppbv
 RT: 3.386 min Scan# 1019
 Delta R.T. 0.003 min
 Lab File: VL042047.D
 Acq: 25 Feb 2025 12:07



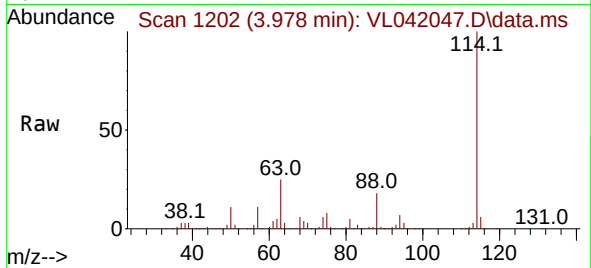
Tgt Ion: 97 Resp: 417615
 Ion Ratio Lower Upper
 97 100
 99 63.5 49.8 74.6
 61 50.7 38.9 58.3





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.978 min Scan# 114
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

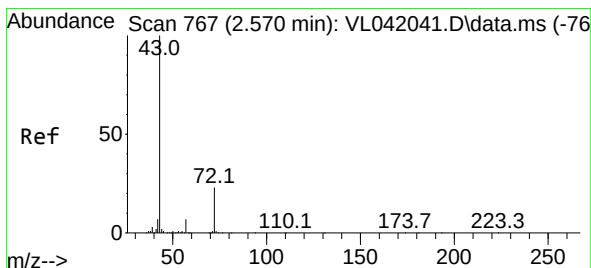
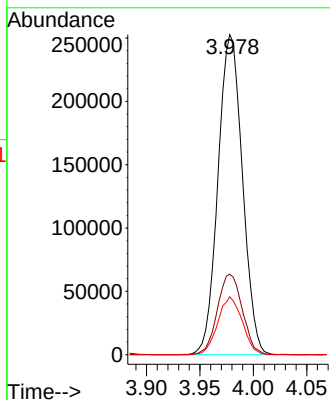
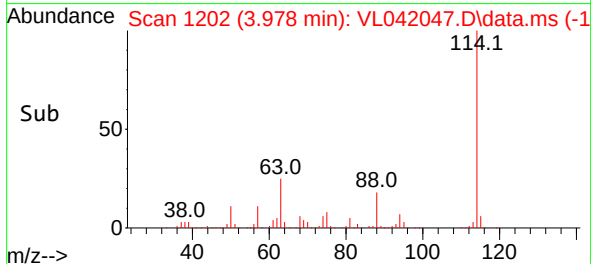
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



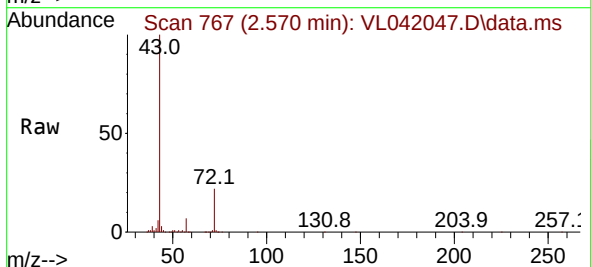
Tgt Ion:114 Resp: 401919
Ion Ratio Lower Upper
114 100
63 25.7 20.1 30.1
88 18.1 14.3 21.5

Manual Integrations
APPROVED

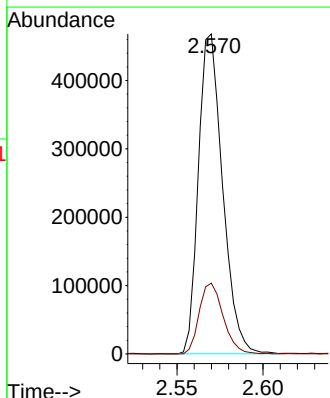
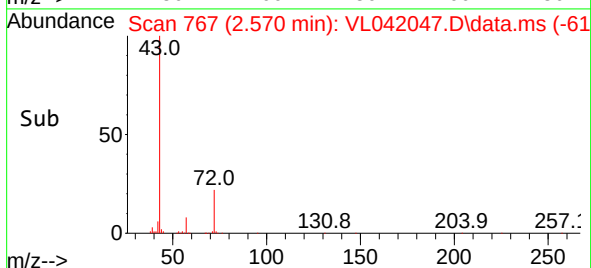
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

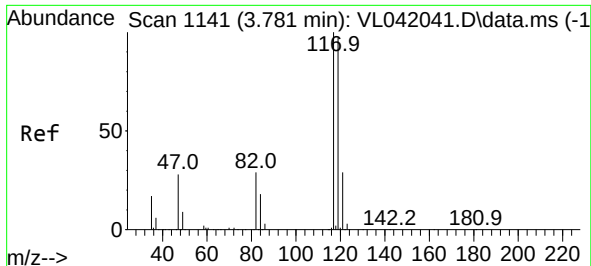


#34
2-Butanone
Concen: 13.234 ppbv
RT: 2.570 min Scan# 767
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07



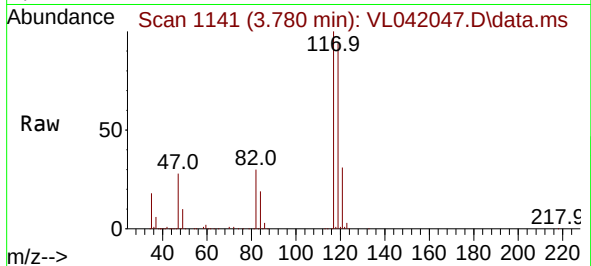
Tgt Ion: 43 Resp: 457602
Ion Ratio Lower Upper
43 100
72 22.1 18.5 27.7





#35
Carbon Tetrachloride
Concen: 10.524 ppbv
RT: 3.780 min Scan# 1141
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

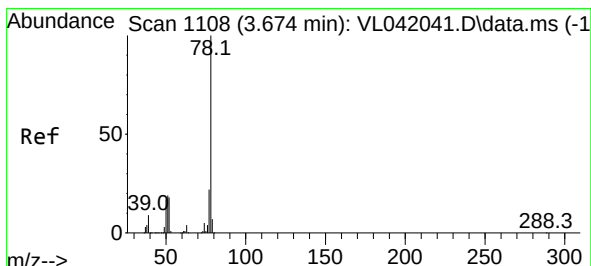
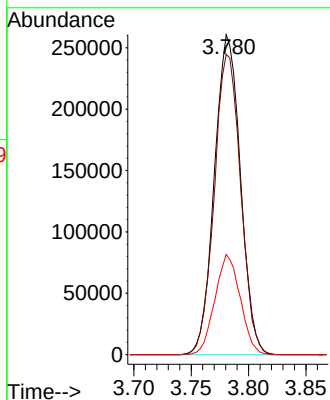
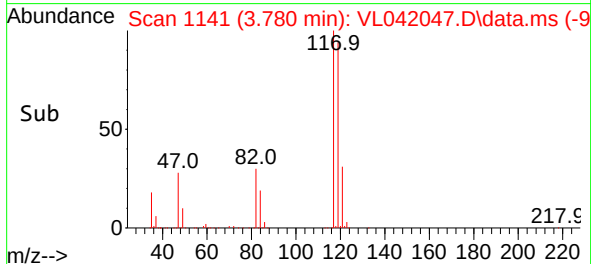
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion:117 Resp: 410730
Ion Ratio Lower Upper
117 100
119 93.9 77.8 116.8
121 31.3 23.4 35.0

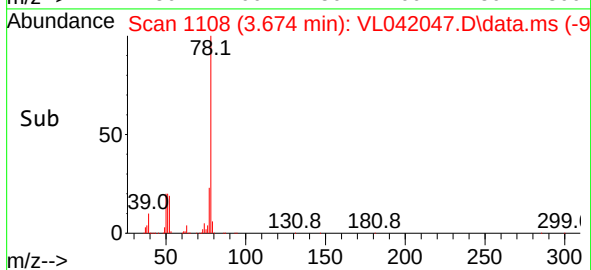
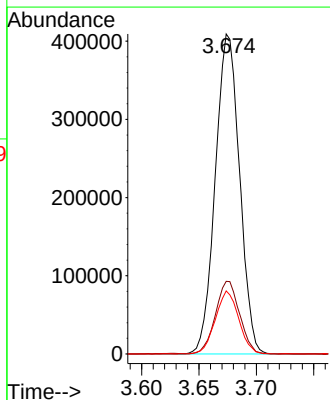
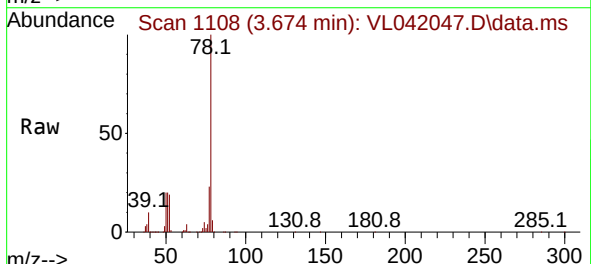
Manual Integrations
APPROVED

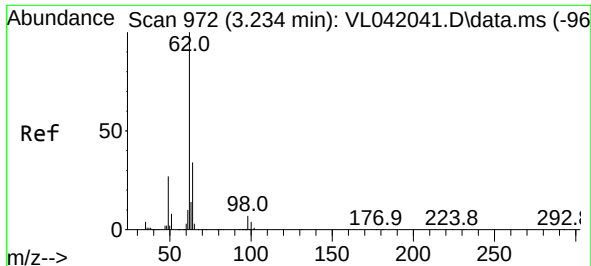
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#36
Benzene
Concen: 12.367 ppbv
RT: 3.674 min Scan# 1108
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 78 Resp: 602107
Ion Ratio Lower Upper
78 100
77 22.7 17.7 26.5
50 19.7 13.9 20.9





#37

1,2-Dichloroethane

Concen: 12.097 ppbv

RT: 3.233 min Scan# 91

Delta R.T. -0.000 min

Lab File: VL042047.D

Acq: 25 Feb 2025 12:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

Tgt Ion: 62 Resp: 33527

Ion Ratio Lower Upper

62 100

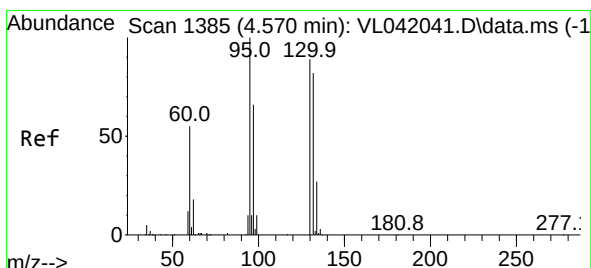
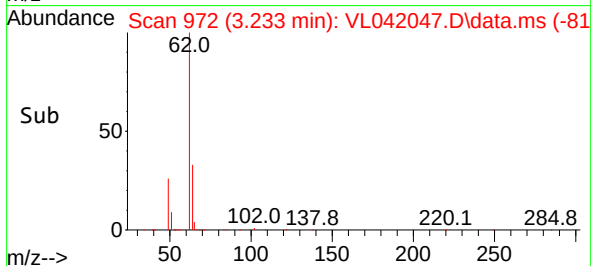
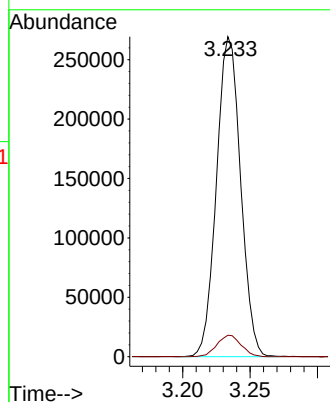
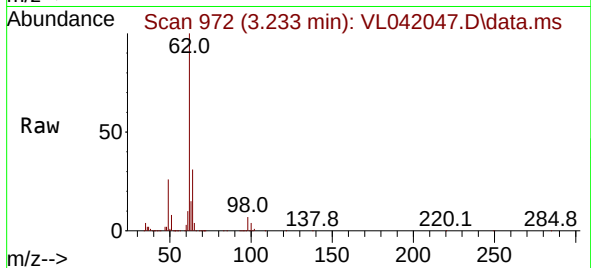
98 6.7 5.7 8.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025

Supervised By :Mahesh Dadoda 02/26/2025



#38

Trichloroethene

Concen: 11.542 ppbv

RT: 4.573 min Scan# 1386

Delta R.T. 0.003 min

Lab File: VL042047.D

Acq: 25 Feb 2025 12:07

Tgt Ion:130 Resp: 228298

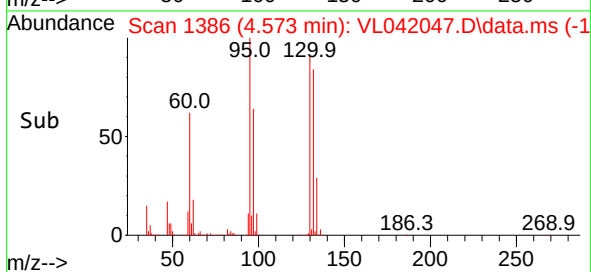
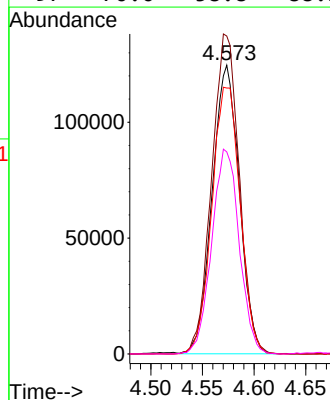
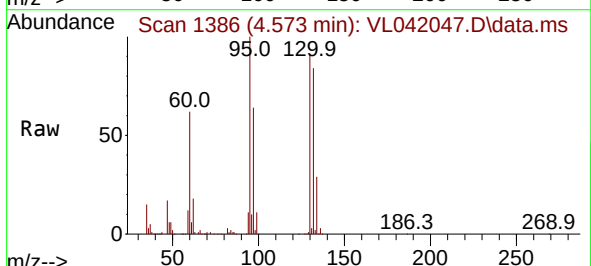
Ion Ratio Lower Upper

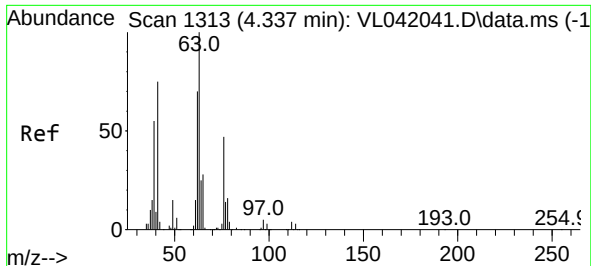
130 100

95 110.1 89.5 134.3

132 92.2 73.8 110.6

97 70.0 58.8 88.2





#39

1,2-Dichloropropane

Concen: 12.797 ppbv

RT: 4.337 min Scan# 1313

Delta R.T. -0.000 min

Lab File: VL042047.D

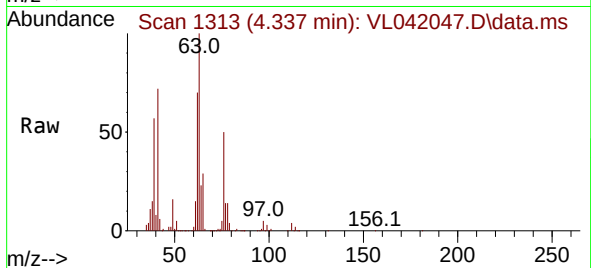
Acq: 25 Feb 2025 12:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015



Tgt Ion: 63 Resp: 228418

Ion Ratio Lower Upper

63 100

41 72.2 60.1 90.1

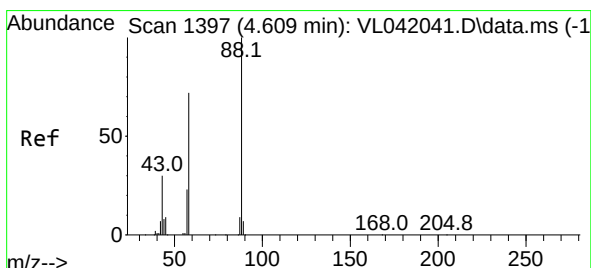
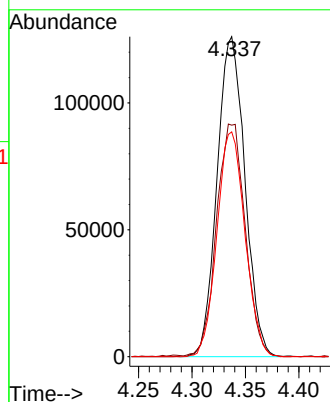
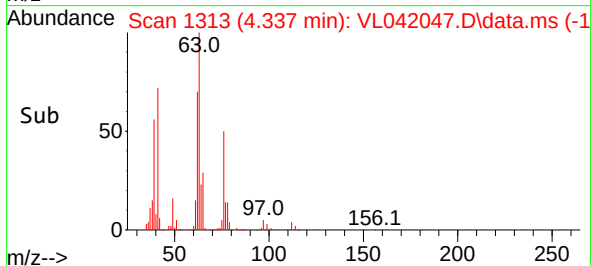
62 70.3 55.8 83.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025

Supervised By :Mahesh Dadoda 02/26/2025



#40

1,4-Dioxane

Concen: 11.253 ppbv

RT: 4.609 min Scan# 1397

Delta R.T. -0.000 min

Lab File: VL042047.D

Acq: 25 Feb 2025 12:07

Tgt Ion: 88 Resp: 104519

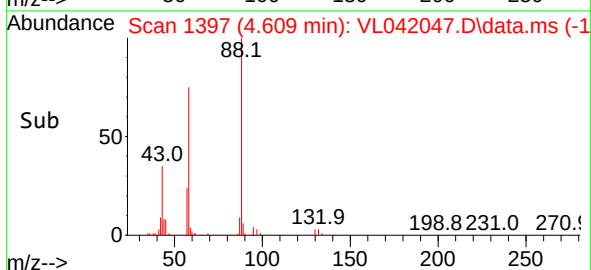
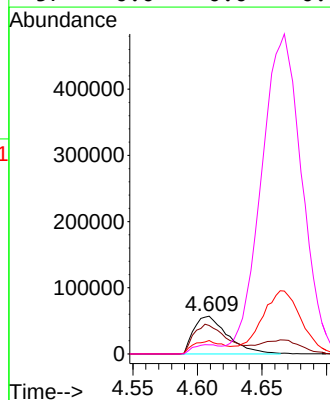
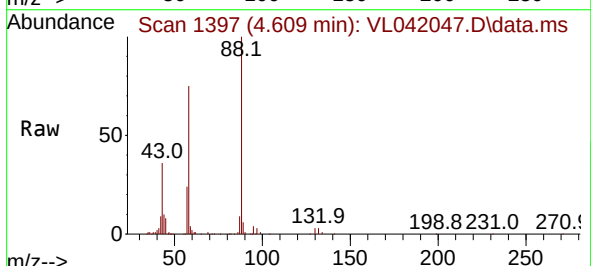
Ion Ratio Lower Upper

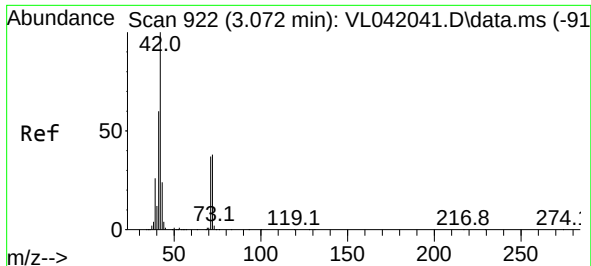
88 100

58 81.6 62.6 94.0

43 30.4 0.0 0.0#

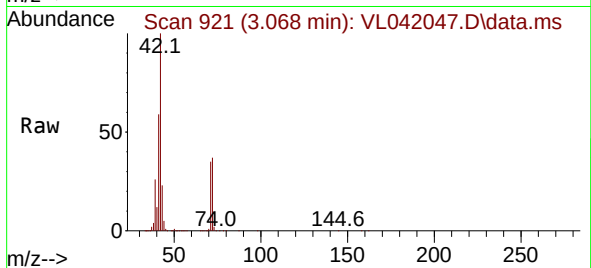
57 0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 13.724 ppbv
RT: 3.068 min Scan# 91
Delta R.T. -0.004 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

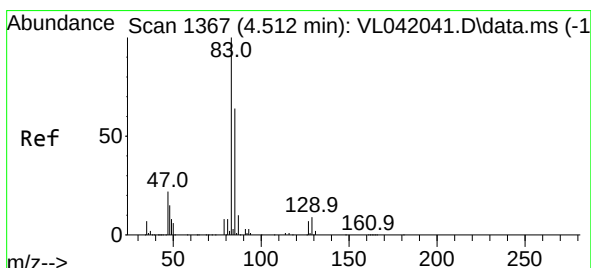
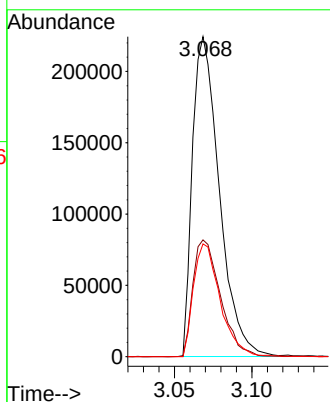
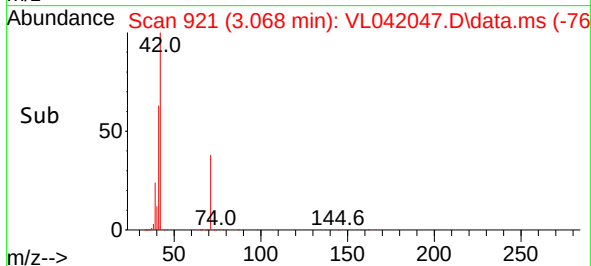
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion: 42 Resp: 27120
Ion Ratio Lower Upper
42 100
72 37.5 30.2 45.2
71 35.1 28.2 42.4

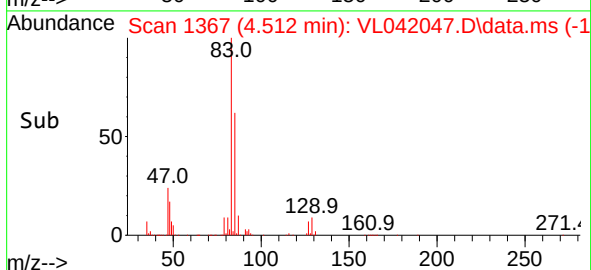
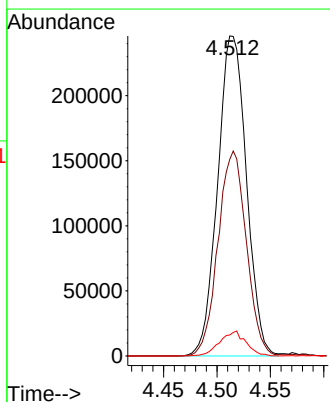
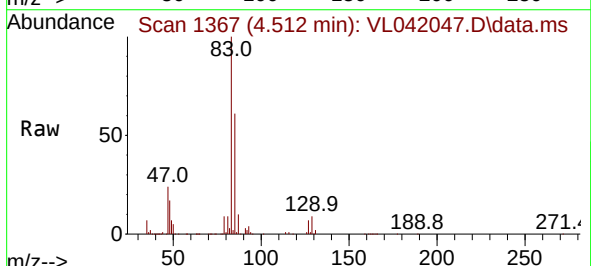
Manual Integrations
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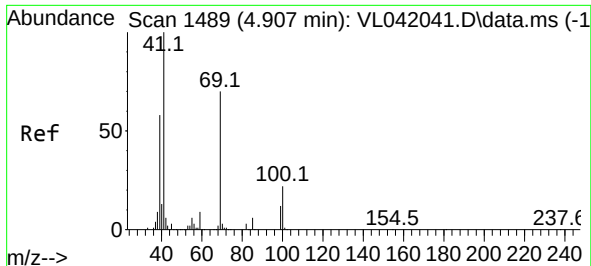
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#42
Bromodichloromethane
Concen: 12.285 ppbv
RT: 4.512 min Scan# 1367
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

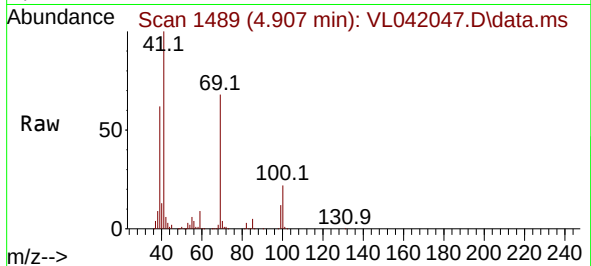
Tgt Ion: 83 Resp: 461272
Ion Ratio Lower Upper
83 100
85 61.4 51.4 77.2
127 6.6 5.8 8.6





#43
Methyl Methacrylate
Concen: 11.105 ppbv
RT: 4.907 min Scan# 1489
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

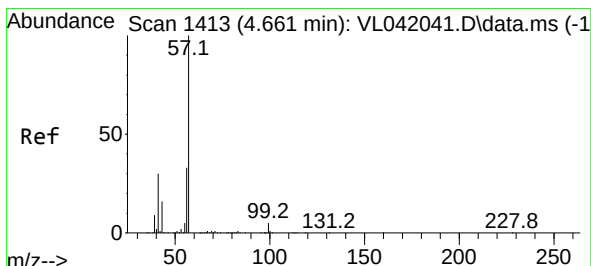
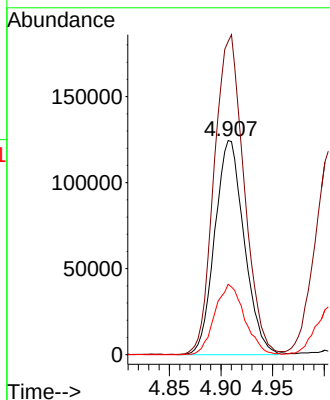
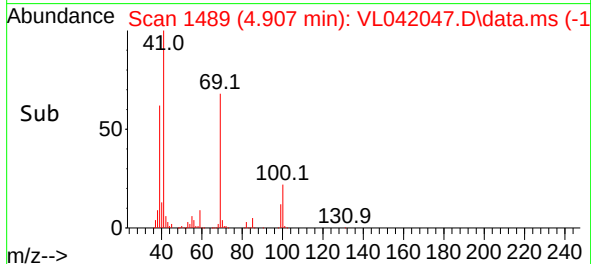
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



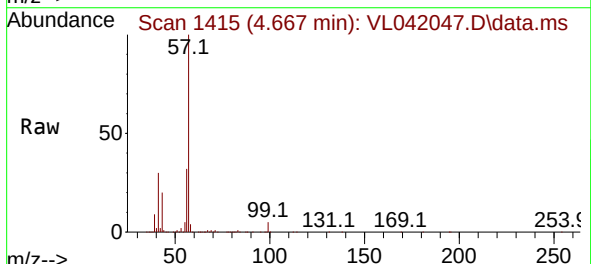
Tgt Ion: 69 Resp: 246468
Ion Ratio Lower Upper
69 100
41 151.9 118.2 177.4
100 33.2 27.0 40.4

Manual Integrations
APPROVED

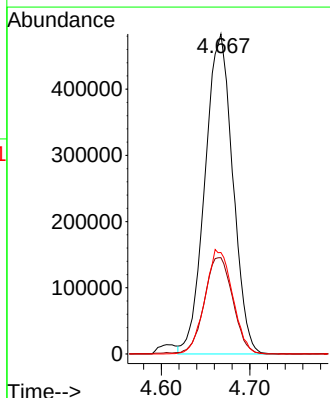
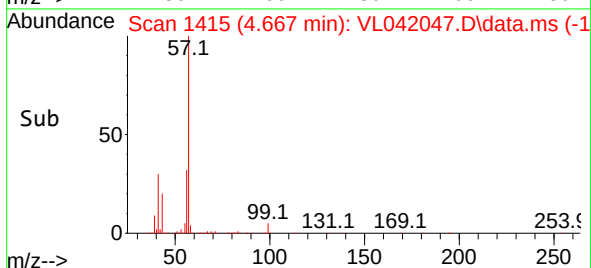
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

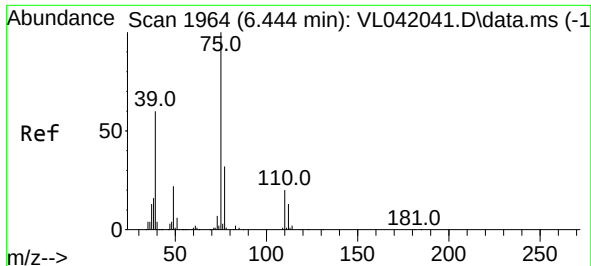


#44
2,2,4-Trimethylpentane
Concen: 12.763 ppbv
RT: 4.667 min Scan# 1415
Delta R.T. 0.006 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07



Tgt Ion: 57 Resp: 1054880
Ion Ratio Lower Upper
57 100
41 31.2 24.4 36.6
56 32.4 26.5 39.7





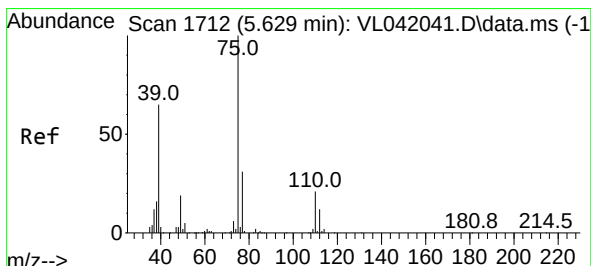
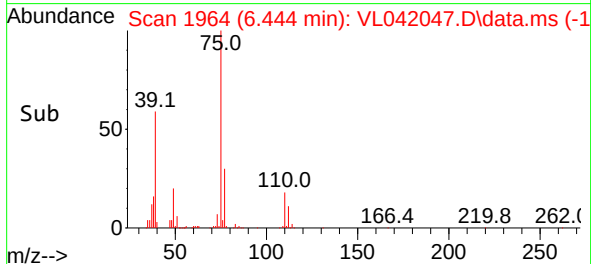
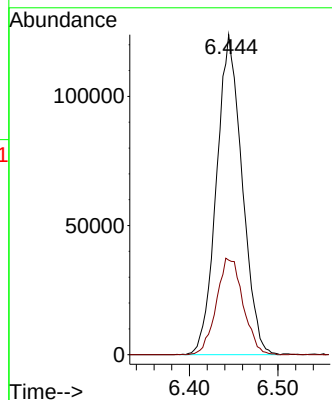
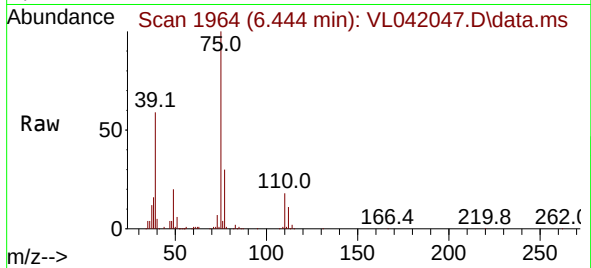
#45
 t-1,3-Dichloropropene
 Concen: 11.914 ppbv
 RT: 6.444 min Scan# 1964
 Delta R.T. -0.000 min
 Lab File: VL042047.D
 Acq: 25 Feb 2025 12:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion: 75 Resp: 249612
 Ion Ratio Lower Upper
 75 100
 77 29.6 25.9 38.9

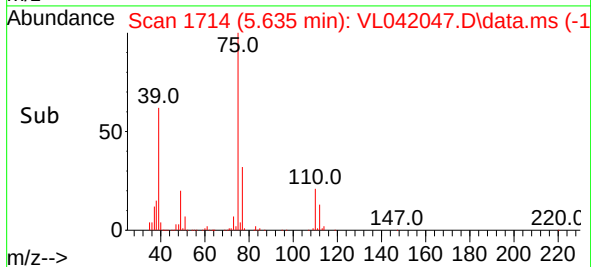
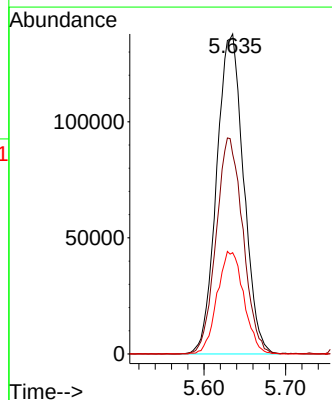
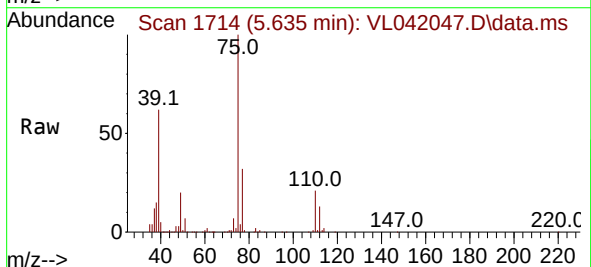
Manual Integrations
 APPROVED

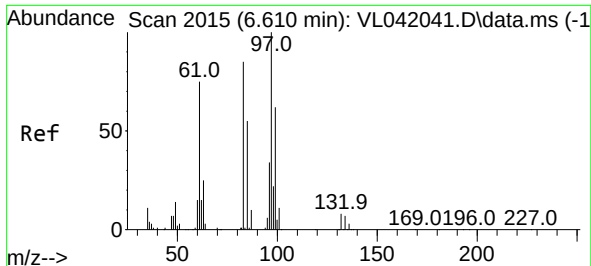
Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025



#46
 cis-1,3-Dichloropropene
 Concen: 11.935 ppbv
 RT: 5.635 min Scan# 1714
 Delta R.T. 0.006 min
 Lab File: VL042047.D
 Acq: 25 Feb 2025 12:07

Tgt Ion: 75 Resp: 317266
 Ion Ratio Lower Upper
 75 100
 39 62.4 51.9 77.9
 77 31.6 24.9 37.3





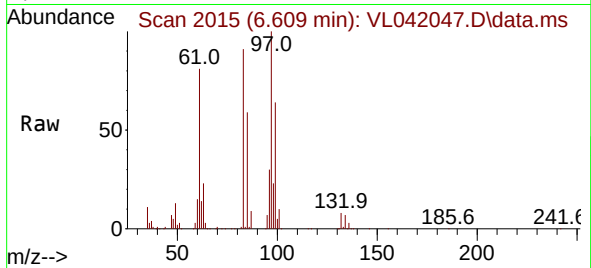
#47
1,1,2-Trichloroethane
Concen: 12.032 ppbv
RT: 6.609 min Scan# 2015
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

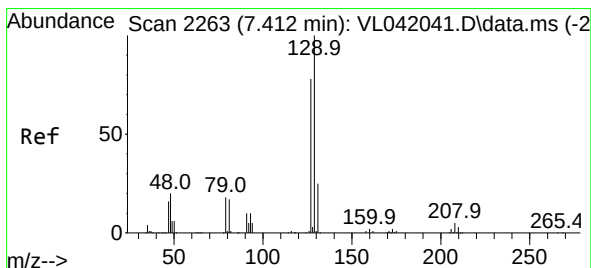
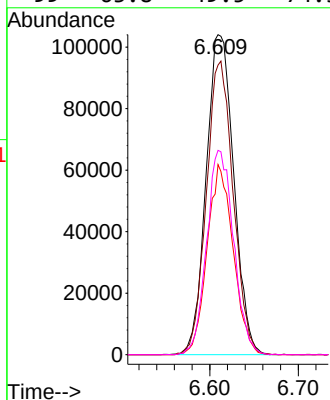
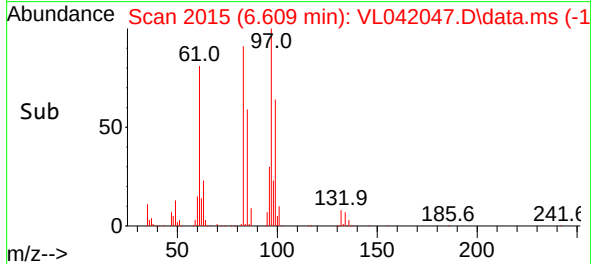


Tgt Ion: 97 Resp: 22602
Ion Ratio Lower Upper
97 100
83 90.5 68.1 102.1
85 59.4 44.0 66.0
99 63.8 49.5 74.3

Manual Integrations

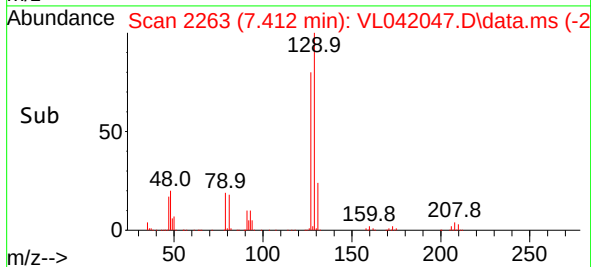
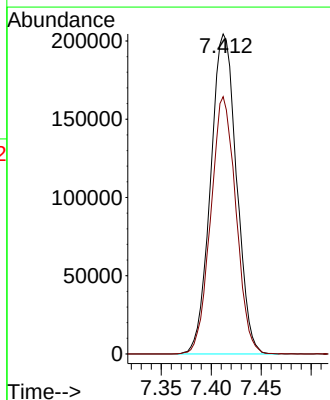
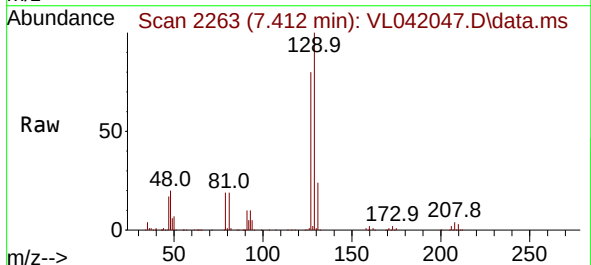
APPROVED

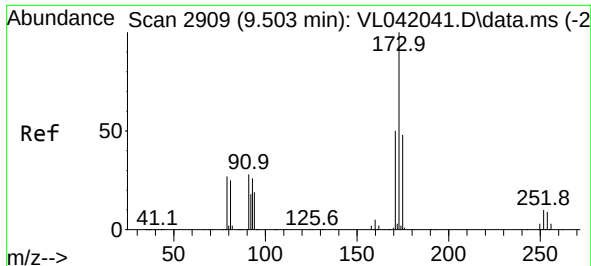
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#48
Dibromochloromethane
Concen: 11.750 ppbv
RT: 7.412 min Scan# 2263
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

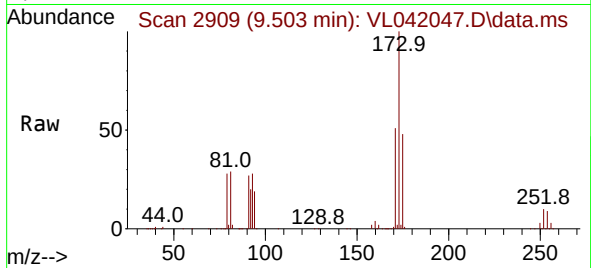
Tgt Ion:129 Resp: 369666
Ion Ratio Lower Upper
129 100
127 78.0 38.6 115.8





#49
Bromoform
Concen: 12.297 ppbv
RT: 9.503 min Scan# 2909
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

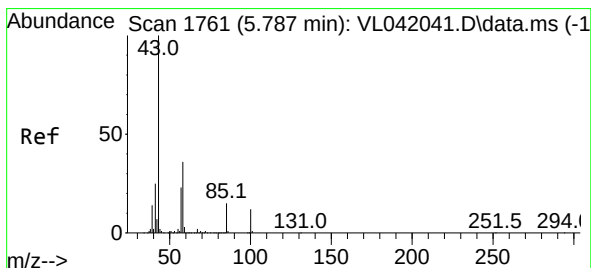
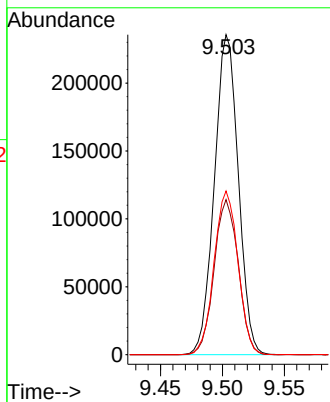
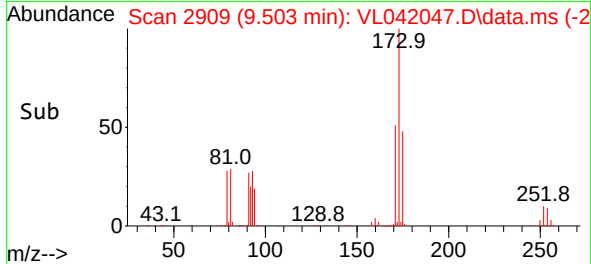
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



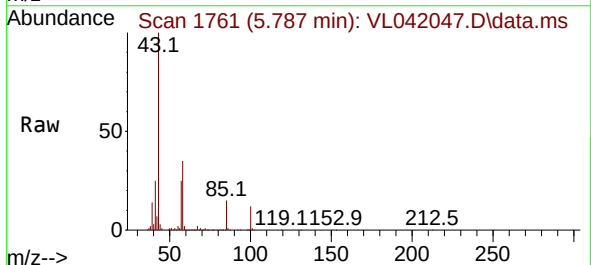
Tgt Ion:173 Resp: 31732
Ion Ratio Lower Upper
173 100
175 48.9 38.3 57.5
171 51.2 40.2 60.2

Manual Integrations
APPROVED

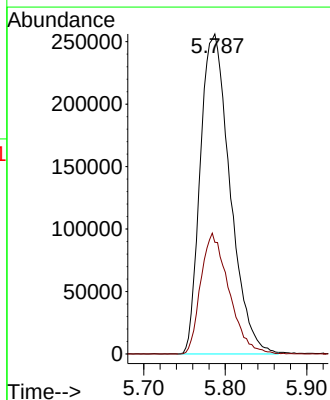
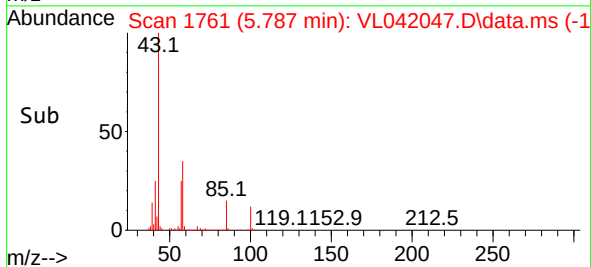
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

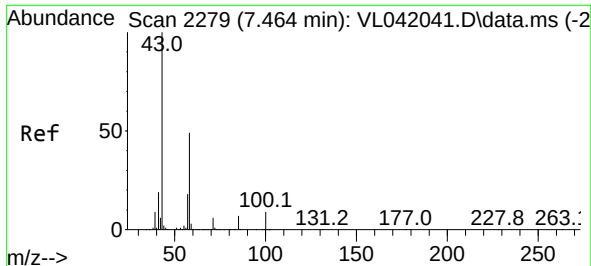


#50
4-Methyl-2-Pentanone
Concen: 12.237 ppbv
RT: 5.787 min Scan# 1761
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07



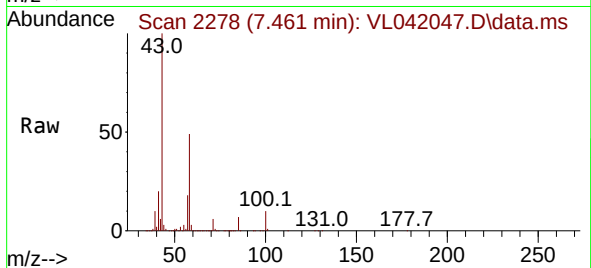
Tgt Ion: 43 Resp: 650307
Ion Ratio Lower Upper
43 100
58 35.9 29.3 43.9





#51
2-Hexanone
Concen: 12.198 ppbv
RT: 7.461 min Scan# 2111
Delta R.T. -0.004 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

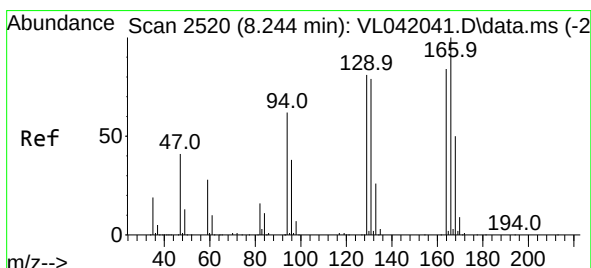
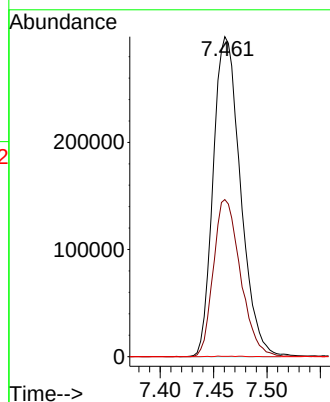
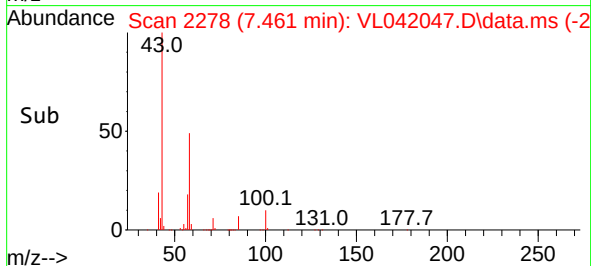
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion: 43 Resp: 53016
Ion Ratio Lower Upper
43 100
58 48.8 39.0 58.6
98 0.2 0.1 0.1

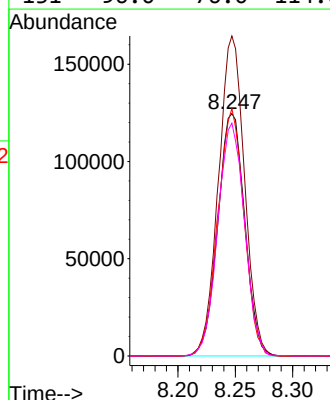
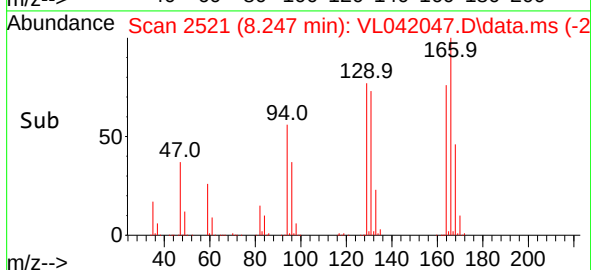
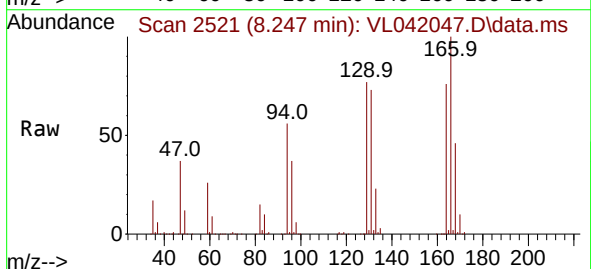
Manual Integrations
APPROVED

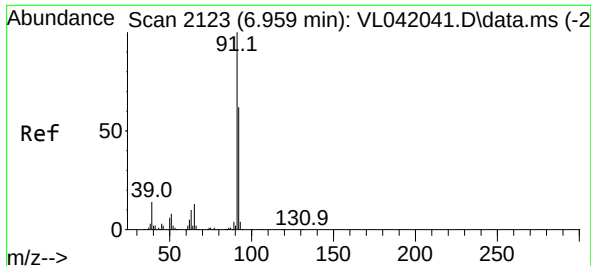
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#52
Tetrachloroethene
Concen: 11.968 ppbv
RT: 8.247 min Scan# 2521
Delta R.T. 0.003 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

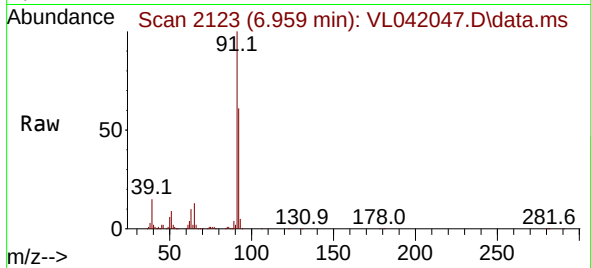
Tgt Ion:164 Resp: 203233
Ion Ratio Lower Upper
164 100
166 132.0 95.7 143.5
129 102.0 77.1 115.7
131 96.0 76.0 114.0





#53
Toluene
Concen: 11.615 ppbv
RT: 6.959 min Scan# 2123
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

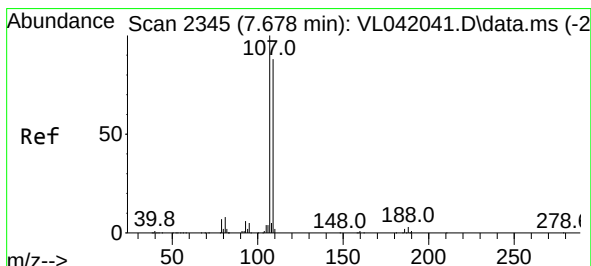
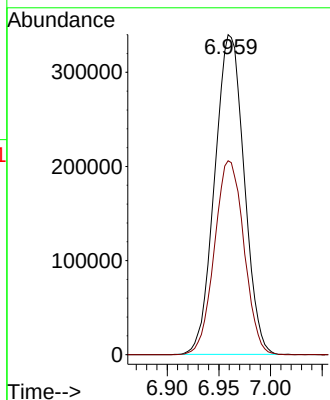
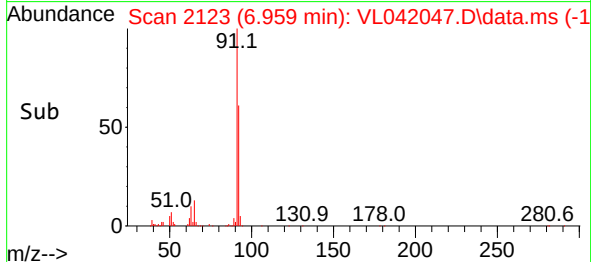
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



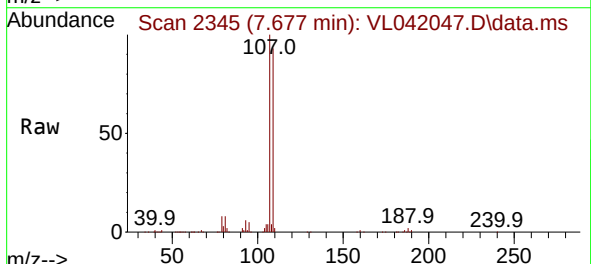
Tgt Ion: 91 Resp: 67382
Ion Ratio Lower Upper
91 100
92 60.9 49.0 73.6

Manual Integrations
APPROVED

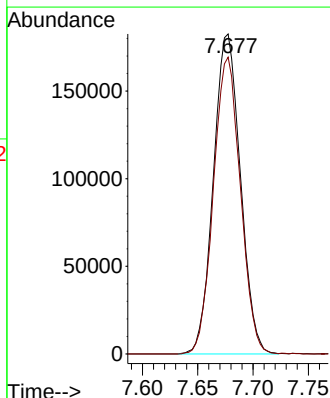
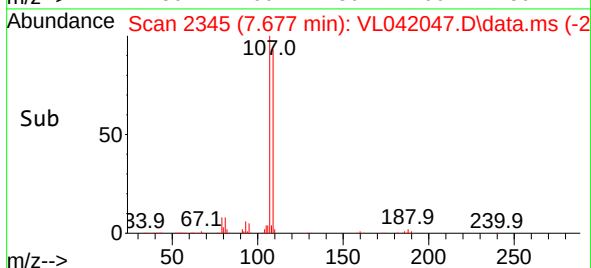
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

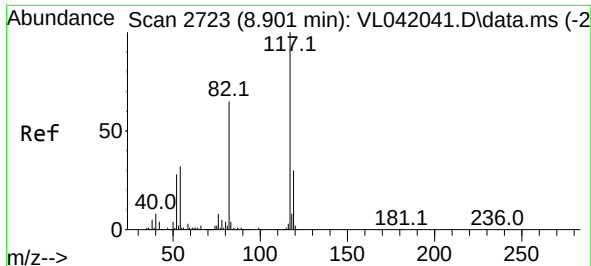


#54
1,2-Dibromoethane
Concen: 11.985 ppbv
RT: 7.677 min Scan# 2345
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07



Tgt Ion:107 Resp: 309982
Ion Ratio Lower Upper
107 100
109 92.7 70.2 105.4





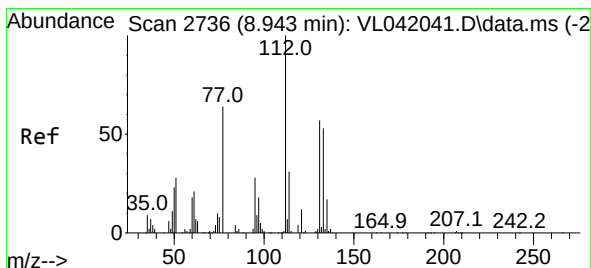
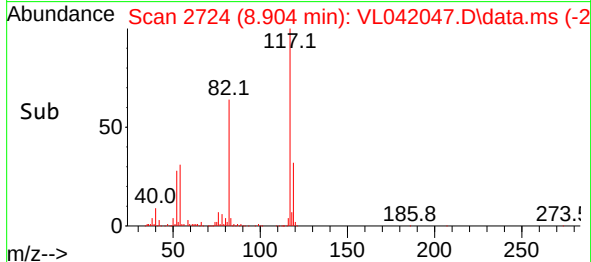
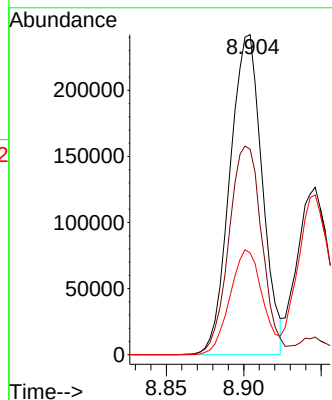
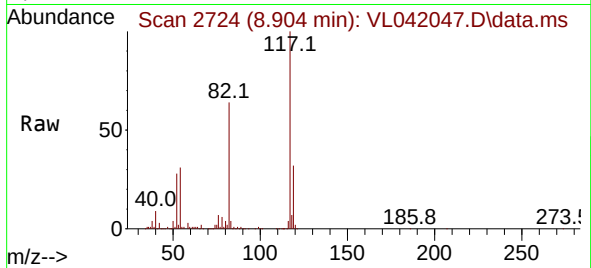
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.904 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:117 Resp: 35163
Ion Ratio Lower Upper
117 100
82 72.2 55.0 82.6
119 33.3 25.9 38.9

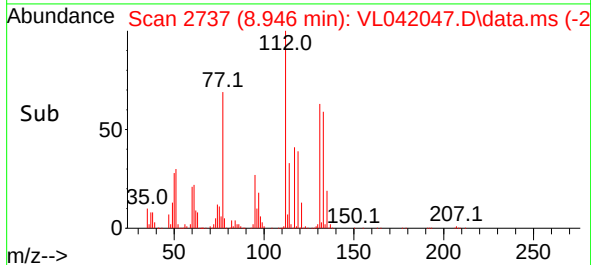
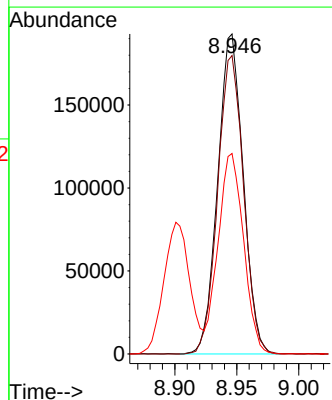
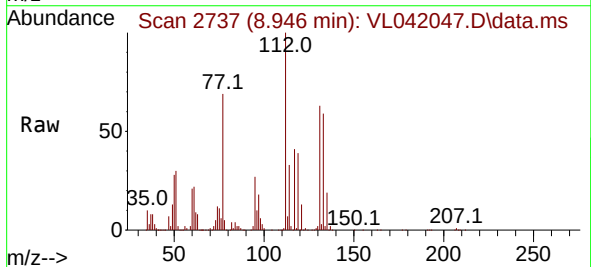
Manual Integrations
APPROVED

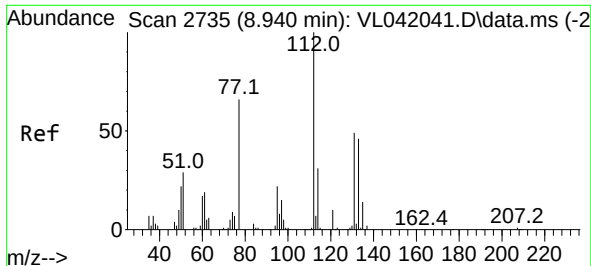
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#56
1,1,1,2-Tetrachloroethane
Concen: 10.979 ppbv
RT: 8.946 min Scan# 2737
Delta R.T. 0.003 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion:131 Resp: 276326
Ion Ratio Lower Upper
131 100
133 94.6 75.8 113.8
119 63.6 52.1 78.1





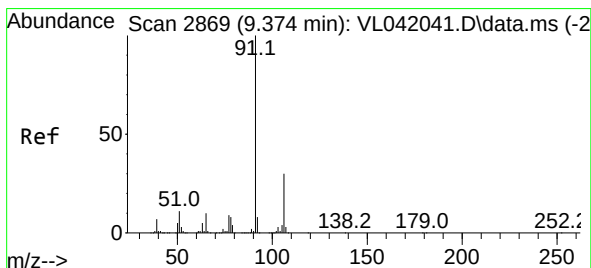
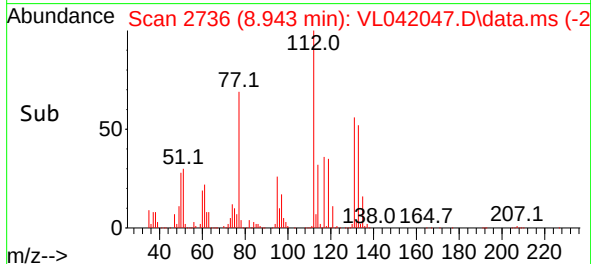
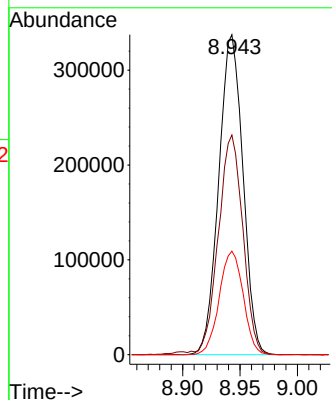
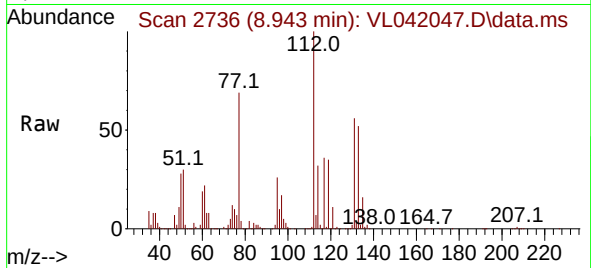
#57
Chlorobenzene
Concen: 11.957 ppbv
RT: 8.943 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion:112 Resp: 494600
Ion Ratio Lower Upper
112 100
77 68.6 53.4 80.2
114 32.4 28.3 34.5

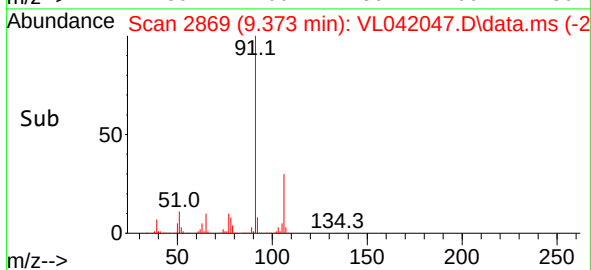
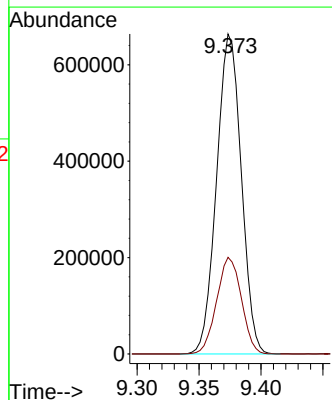
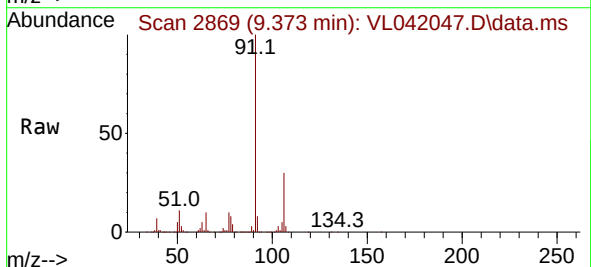
Manual Integrations
APPROVED

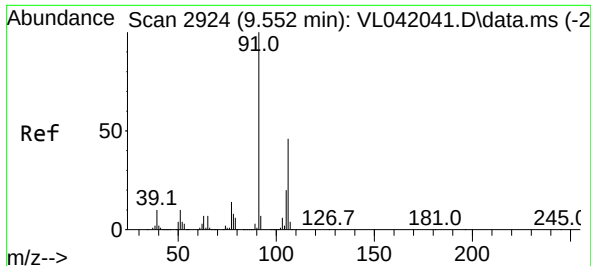
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#58
Ethyl Benzene
Concen: 11.984 ppbv
RT: 9.373 min Scan# 2869
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 91 Resp: 922265
Ion Ratio Lower Upper
91 100
106 30.2 24.2 36.2





#59

m/p-Xylene

Concen: 24.020 ppbv m

RT: 9.571 min Scan# 2924

Delta R.T. 0.019 min

Lab File: VL042047.D

Acq: 25 Feb 2025 12:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 91 Resp: 145603

Ion Ratio Lower Upper

91 100

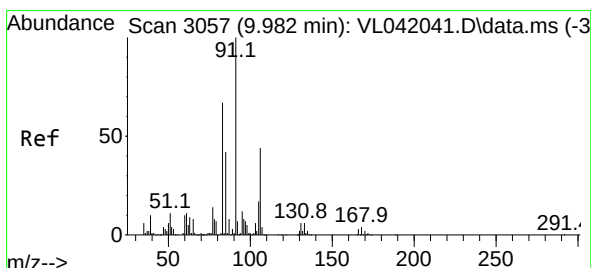
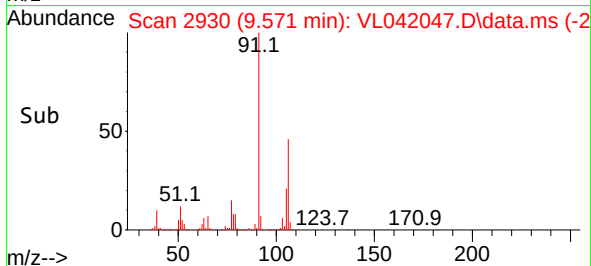
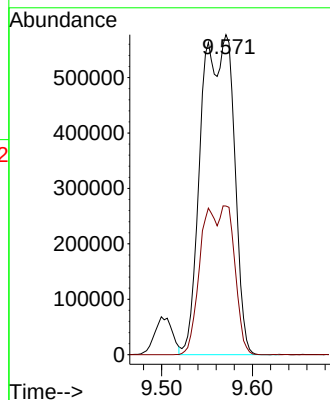
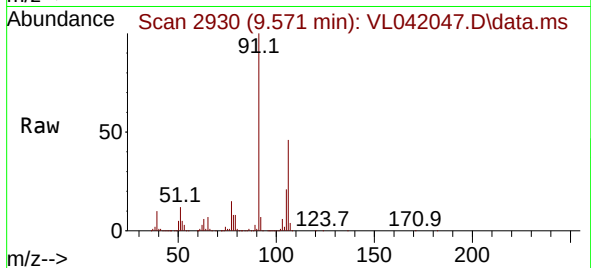
106 0.0 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025

Supervised By :Mahesh Dadoda 02/26/2025



#60

o-Xylene

Concen: 11.626 ppbv

RT: 9.982 min Scan# 3057

Delta R.T. -0.000 min

Lab File: VL042047.D

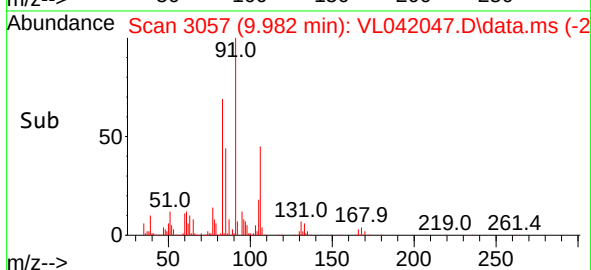
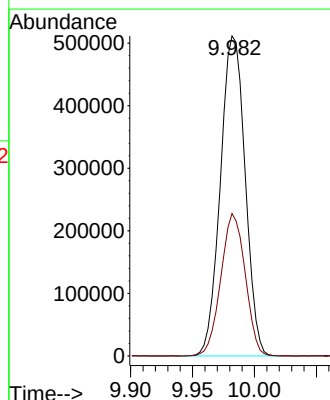
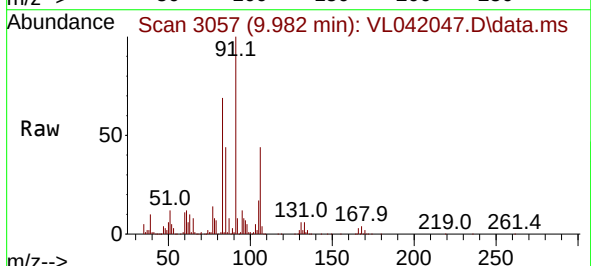
Acq: 25 Feb 2025 12:07

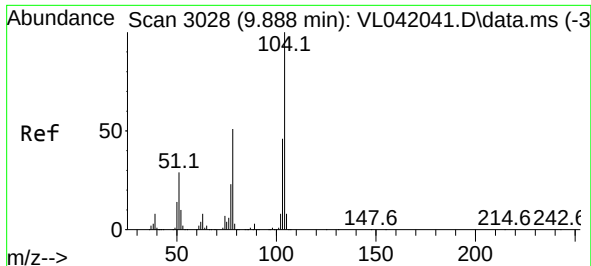
Tgt Ion: 91 Resp: 712735

Ion Ratio Lower Upper

91 100

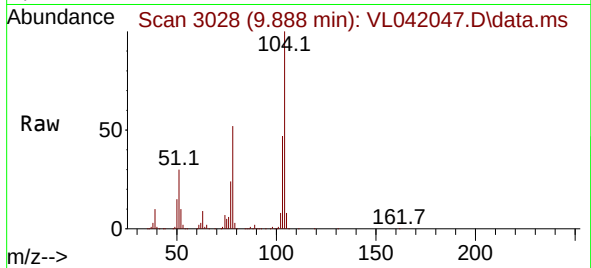
106 43.8 22.3 66.8





#61
Styrene
Concen: 12.446 ppbv
RT: 9.888 min Scan# 3028
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

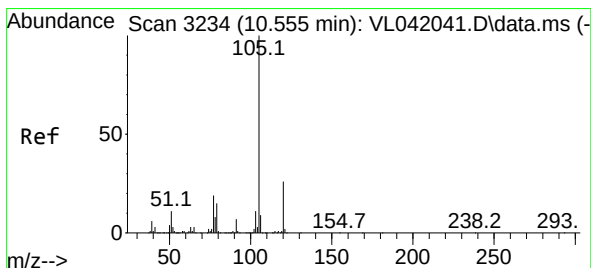
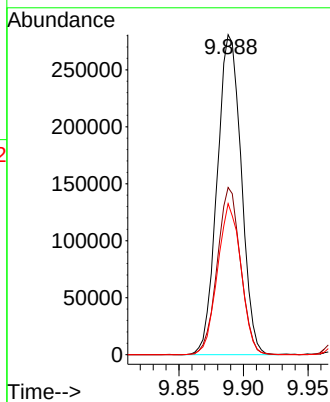
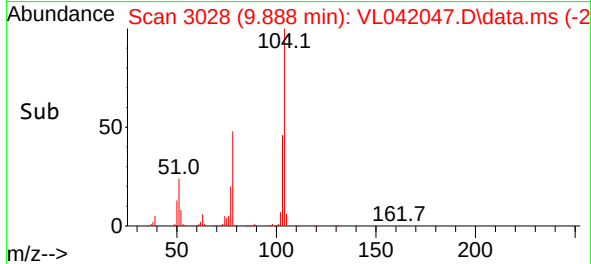
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



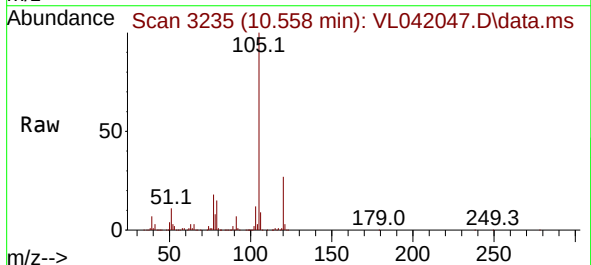
Tgt Ion:104 Resp: 36385
Ion Ratio Lower Upper
104 100
78 50.5 41.0 61.4
103 46.2 37.0 55.6

Manual Integrations
APPROVED

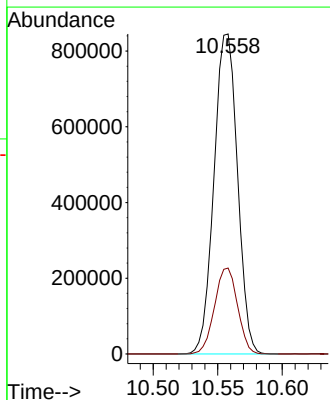
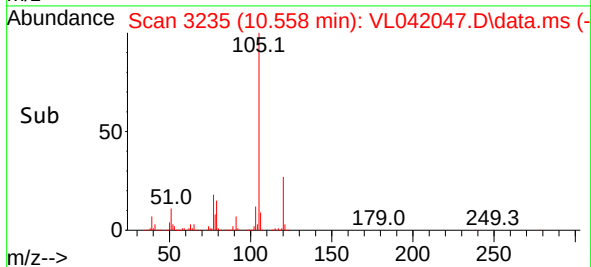
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

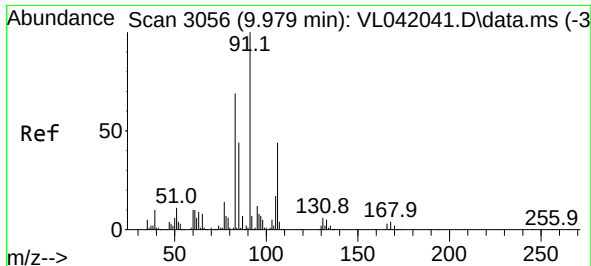


#62
Isopropylbenzene
Concen: 11.612 ppbv
RT: 10.558 min Scan# 3235
Delta R.T. 0.003 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07



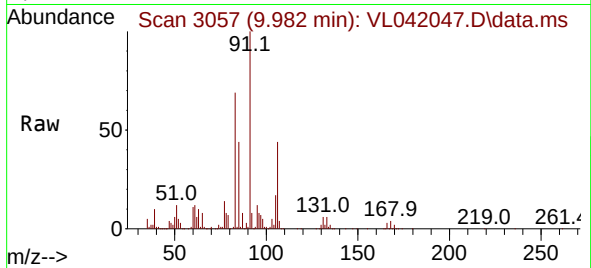
Tgt Ion:105 Resp: 1068777
Ion Ratio Lower Upper
105 100
120 26.2 20.7 31.1





#63
1,1,2,2-Tetrachloroethane
Concen: 11.626 ppbv
RT: 9.982 min Scan# 3056
Delta R.T. 0.003 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

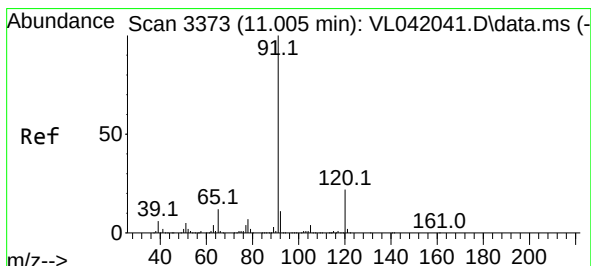
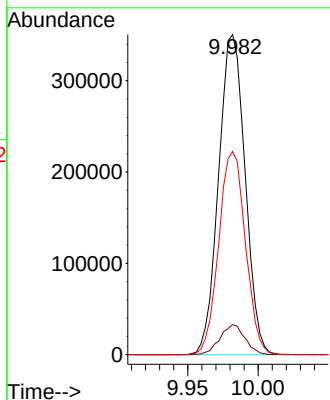
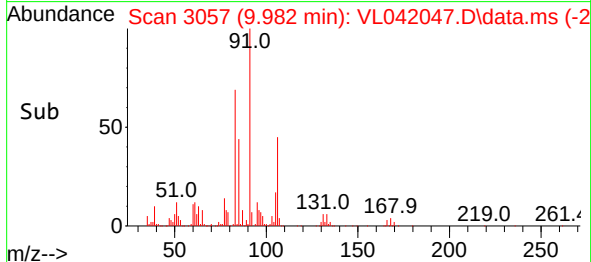
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion: 83 Resp: 459839
Ion Ratio Lower Upper
83 100
131 8.9 4.5 13.7
85 63.9 32.1 96.3

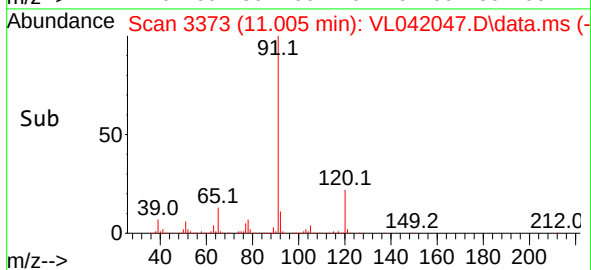
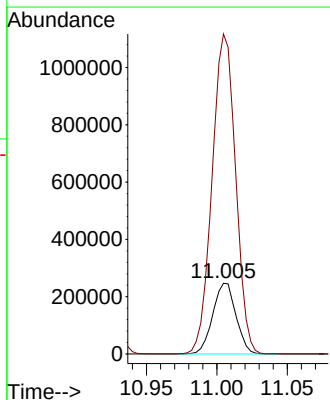
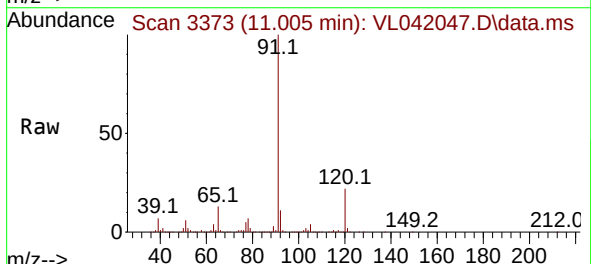
Manual Integrations
APPROVED

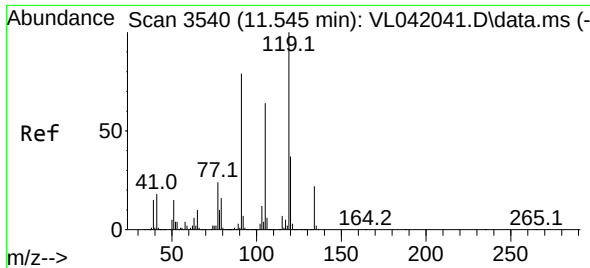
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#64
n-propylbenzene
Concen: 12.486 ppbv
RT: 11.005 min Scan# 3373
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

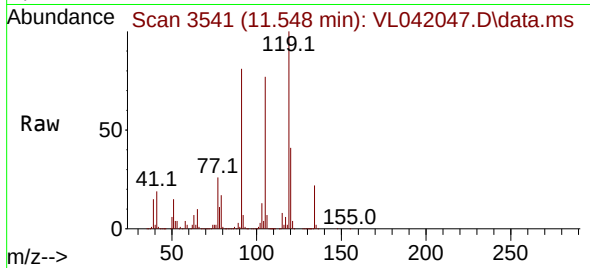
Tgt Ion:120 Resp: 282364
Ion Ratio Lower Upper
120 100
91 460.6 370.6 556.0





#65
tert-Butylbenzene
Concen: 11.526 ppbv
RT: 11.548 min Scan# 3541
Delta R.T. 0.003 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

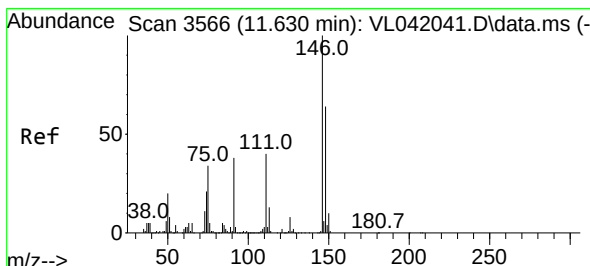
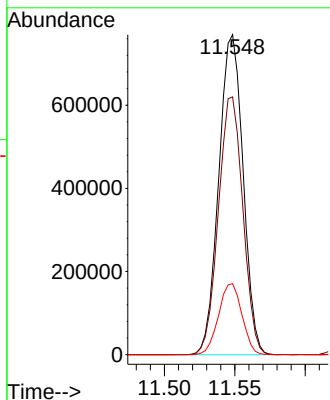
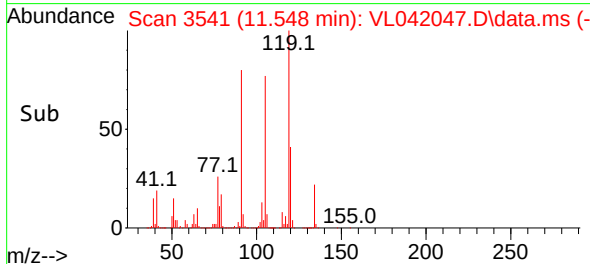
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



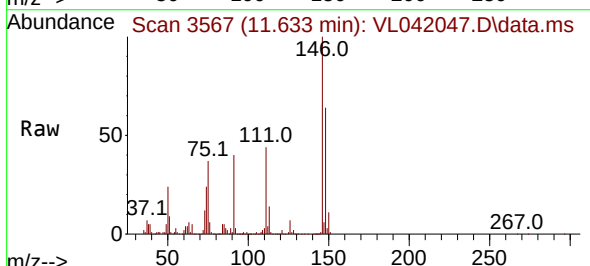
Tgt Ion: 119 Resp: 924810
Ion Ratio Lower Upper
119 100
91 81.2 64.2 96.2
134 21.4 17.4 26.2

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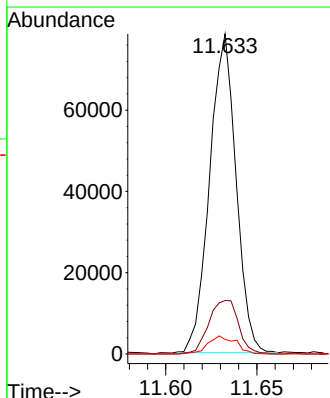
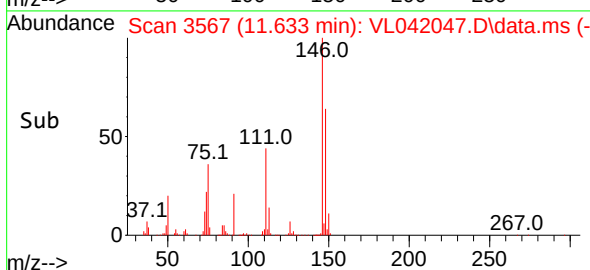
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

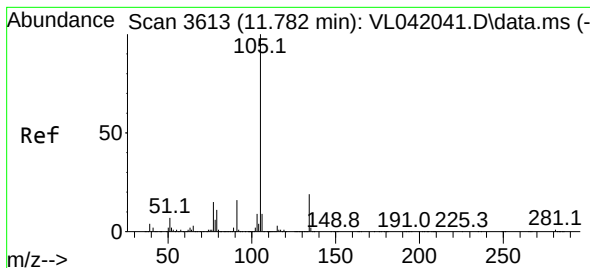


#66
Benzyl Chloride
Concen: 9.819 ppbv
RT: 11.633 min Scan# 3567
Delta R.T. 0.003 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07



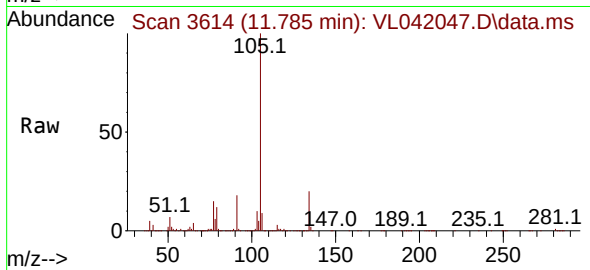
Tgt Ion: 91 Resp: 78975
Ion Ratio Lower Upper
91 100
126 19.0 14.5 21.7
128 6.0 5.4 8.2





#67
 sec-Butylbenzene
 Concen: 11.674 ppbv
 RT: 11.785 min Scan# 3613
 Delta R.T. 0.003 min
 Lab File: VL042047.D
 Acq: 25 Feb 2025 12:07

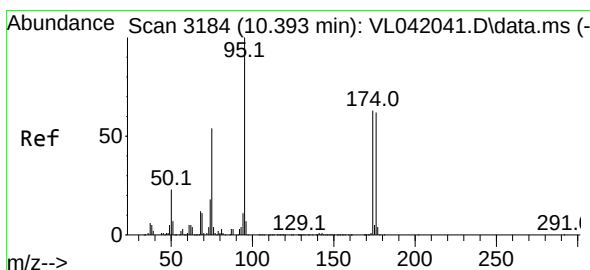
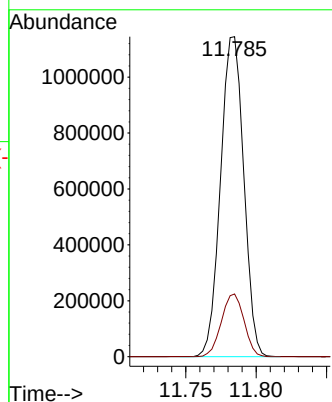
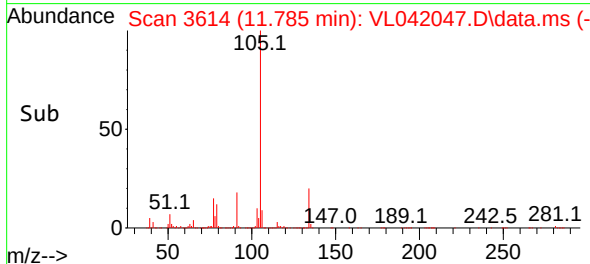
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



Tgt Ion:105 Resp: 1315730
 Ion Ratio Lower Upper
 105 100
 134 19.2 14.9 22.3

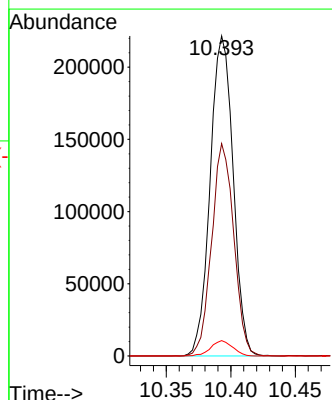
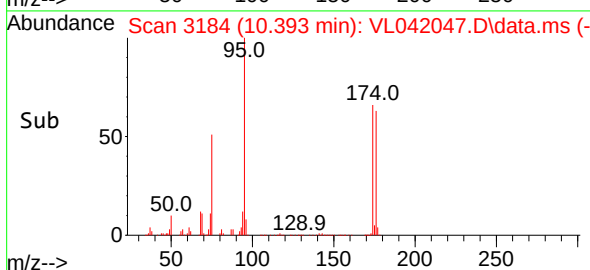
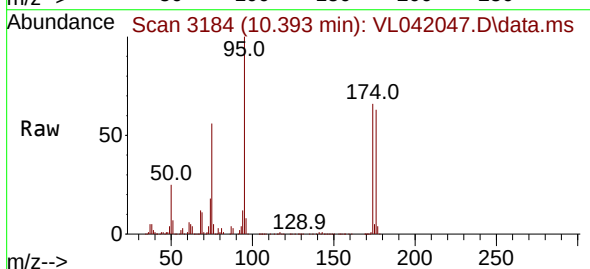
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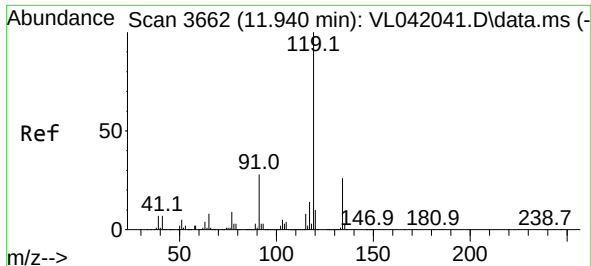
Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.441 ppbv
 RT: 10.393 min Scan# 3184
 Delta R.T. -0.000 min
 Lab File: VL042047.D
 Acq: 25 Feb 2025 12:07

Tgt Ion: 95 Resp: 273846
 Ion Ratio Lower Upper
 95 100
 174 64.0 51.8 77.6
 175 4.6 3.9 5.9





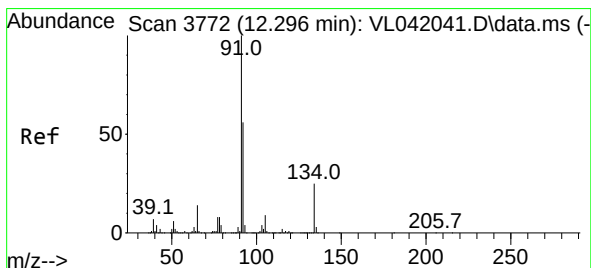
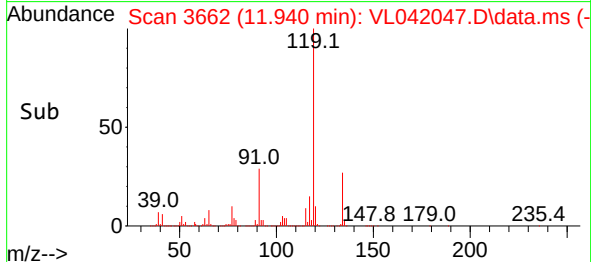
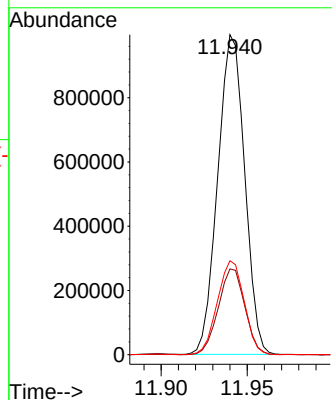
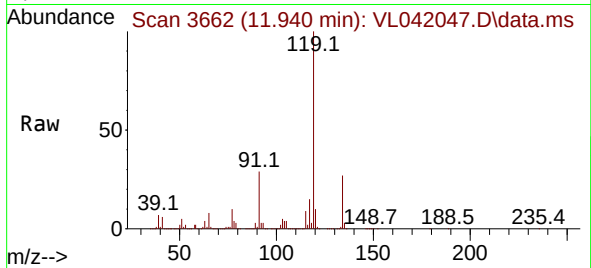
#69
p-Isopropyltoluene
Concen: 11.752 ppbv
RT: 11.940 min Scan# 3662
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion:119 Resp: 108425
Ion Ratio Lower Upper
119 100
134 26.6 20.9 31.3
91 29.4 23.1 34.7

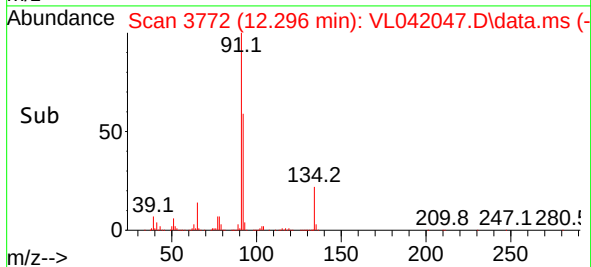
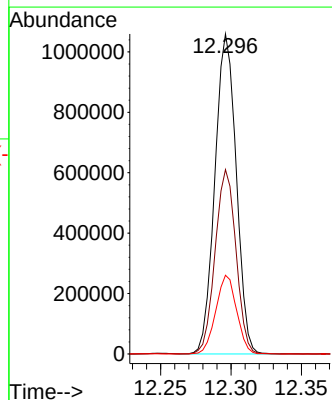
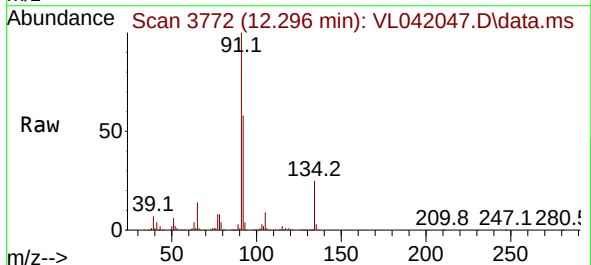
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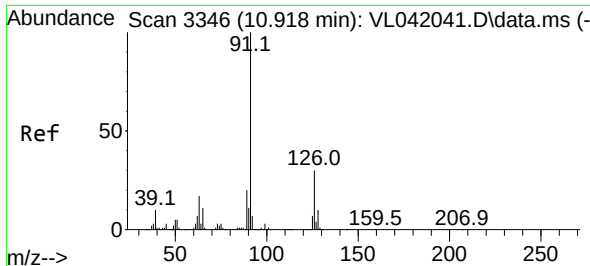
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#70
n-Butylbenzene
Concen: 12.306 ppbv
RT: 12.296 min Scan# 3772
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 91 Resp: 1118373
Ion Ratio Lower Upper
91 100
92 56.6 44.7 67.1
134 24.0 18.9 28.3





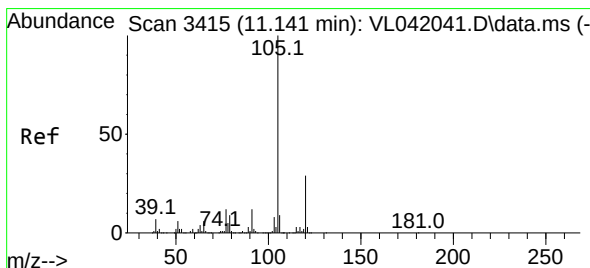
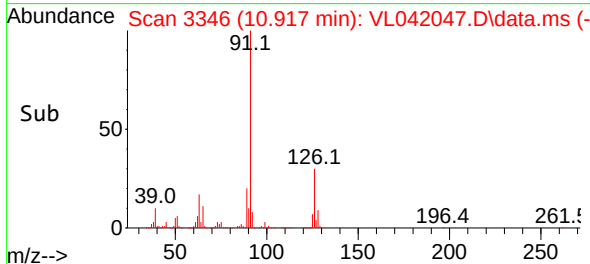
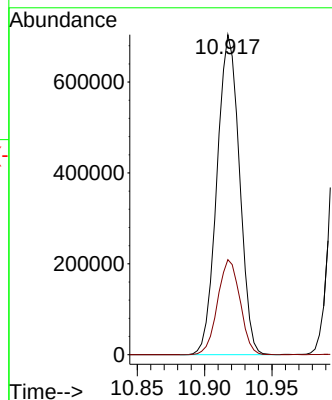
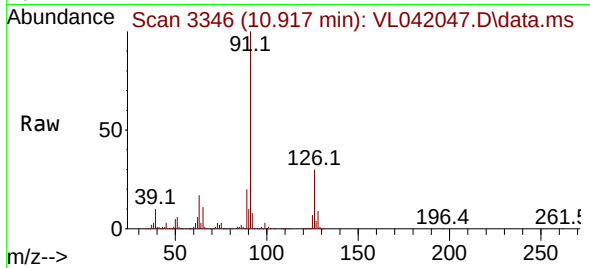
#71
2-Chlorotoluene
Concen: 11.804 ppbv
RT: 10.917 min Scan# 31
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 91 Resp: 818204
Ion Ratio Lower Upper
91 100
126 29.5 11.9 47.5

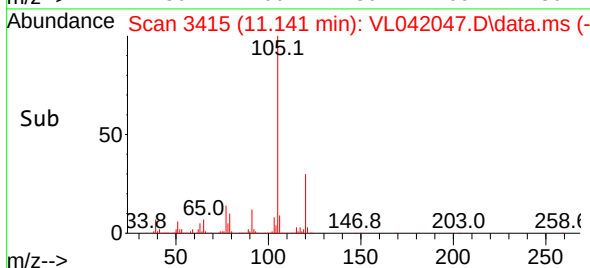
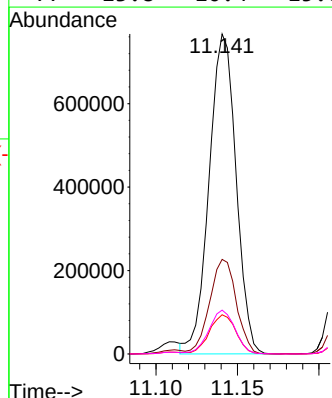
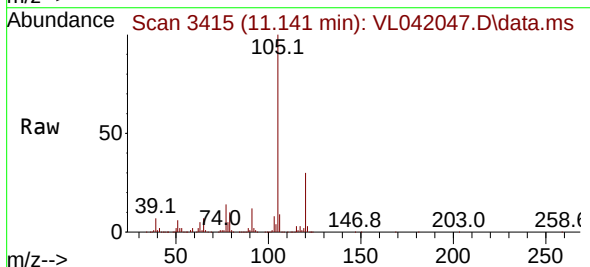
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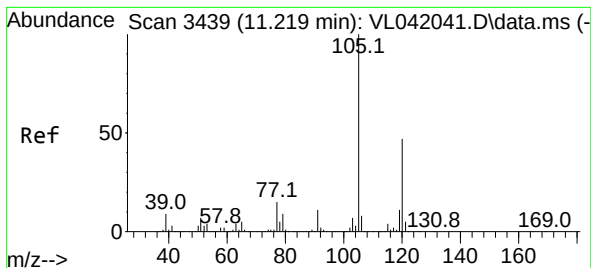
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#72
4-Ethyltoluene
Concen: 12.264 ppbv
RT: 11.141 min Scan# 3415
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion:105 Resp: 880883
Ion Ratio Lower Upper
105 100
120 30.4 24.1 36.1
91 12.7 10.2 15.4
77 13.8 10.4 15.6





#73

1,3,5-Trimethylbenzene

Concen: 11.921 ppbv

RT: 11.218 min Scan# 3439

Delta R.T. -0.000 min

Lab File: VL042047.D

Acq: 25 Feb 2025 12:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

Tgt Ion:105 Resp: 738619

Ion Ratio Lower Upper

105 100

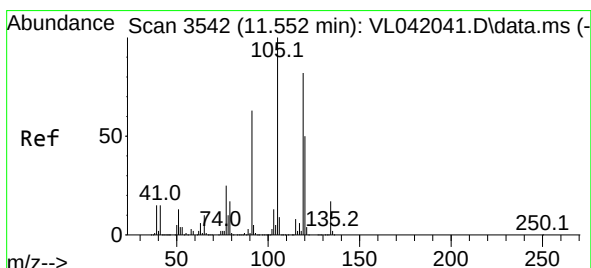
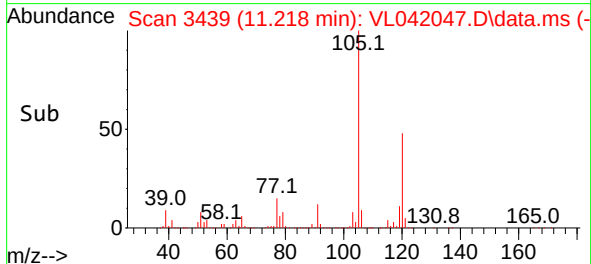
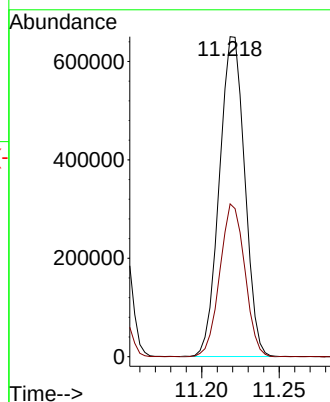
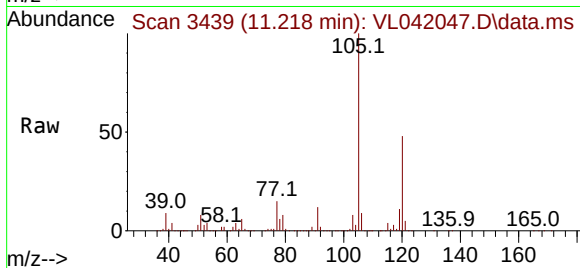
120 47.8 37.4 56.0

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Reviewed By :Semsettin Yesilyurt 02/26/2025

Supervised By :Mahesh Dadoda 02/26/2025



#74

1,2,4-Trimethylbenzene

Concen: 11.801 ppbv

RT: 11.552 min Scan# 3542

Delta R.T. -0.000 min

Lab File: VL042047.D

Acq: 25 Feb 2025 12:07

Tgt Ion:105 Resp: 784701

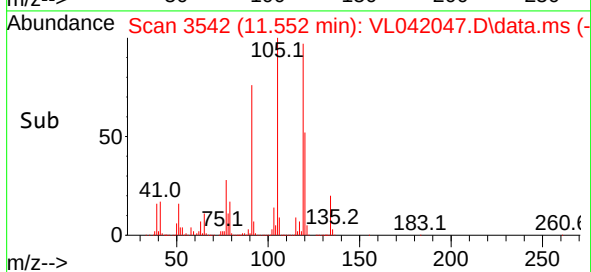
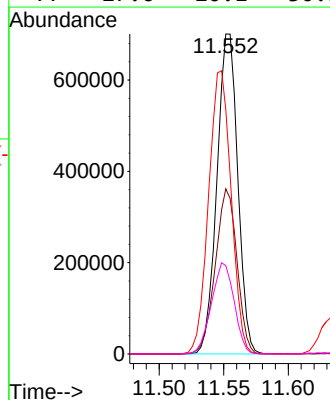
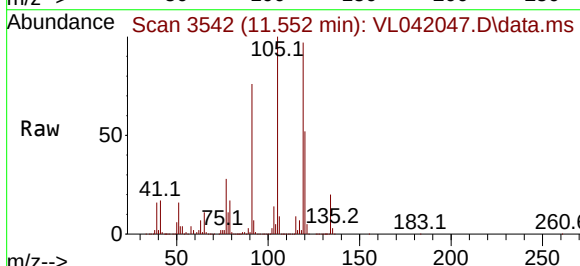
Ion Ratio Lower Upper

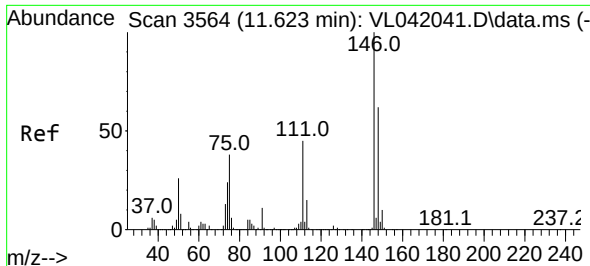
105 100

120 51.6 40.2 60.2

91 76.3 51.4 77.2

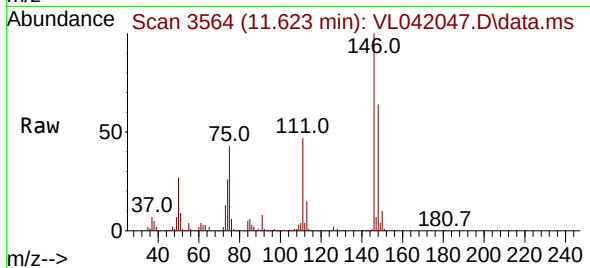
77 27.6 20.1 30.1





#75
1,3-Dichlorobenzene
Concen: 13.003 ppbv
RT: 11.623 min Scan# 3564
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

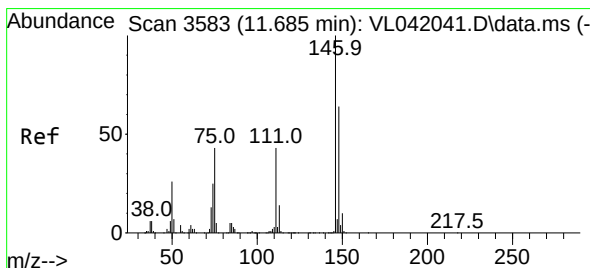
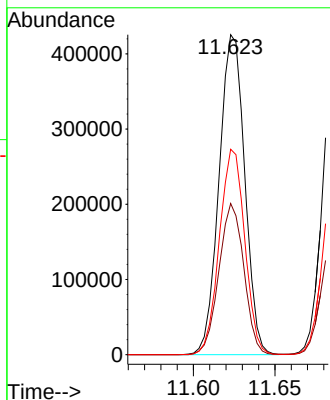
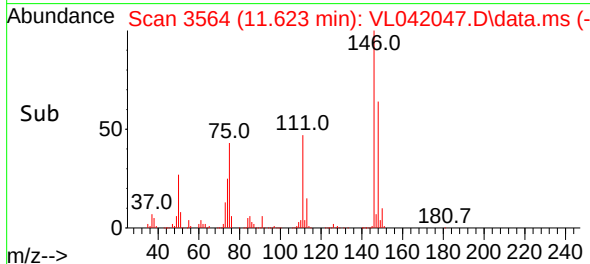
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



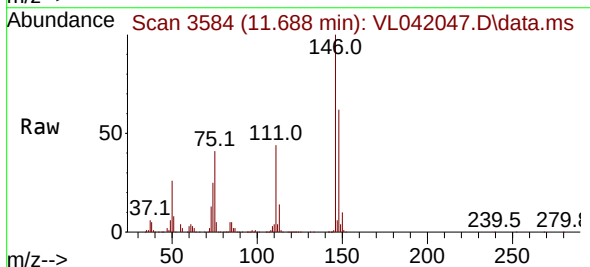
Tgt Ion:146 Resp: 465430
Ion Ratio Lower Upper
146 100
111 46.0 22.4 67.2
148 63.5 32.3 96.8

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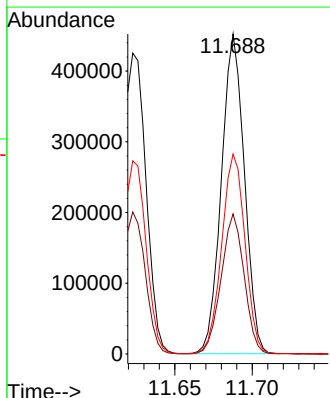
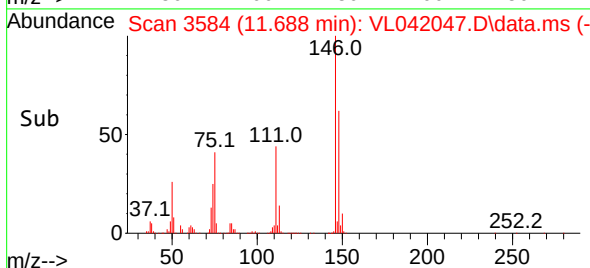
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

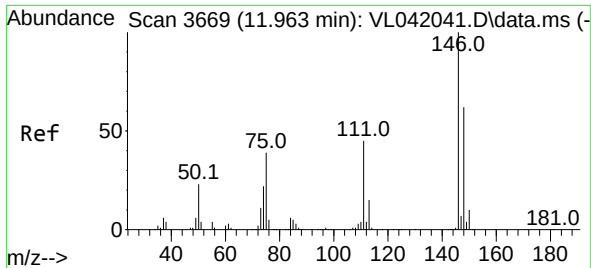


#76
1,4-Dichlorobenzene
Concen: 13.386 ppbv
RT: 11.688 min Scan# 3584
Delta R.T. 0.003 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07



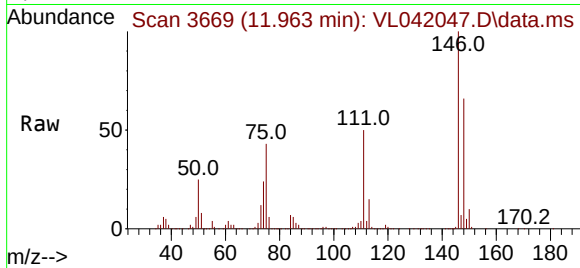
Tgt Ion:146 Resp: 467249
Ion Ratio Lower Upper
146 100
111 44.0 21.5 64.5
148 63.7 31.6 95.0





#77
1,2-Dichlorobenzene
Concen: 13.129 ppbv
RT: 11.963 min Scan# 3669
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

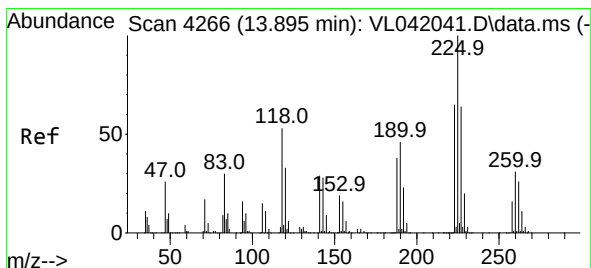
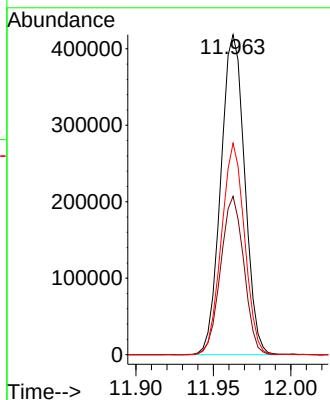
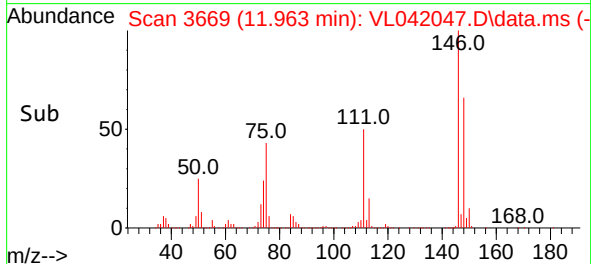
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



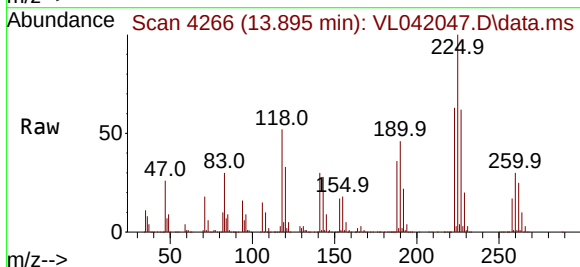
Tgt Ion:146 Resp: 449222
Ion Ratio Lower Upper
146 100
111 48.1 23.2 69.6
148 64.0 31.4 94.2

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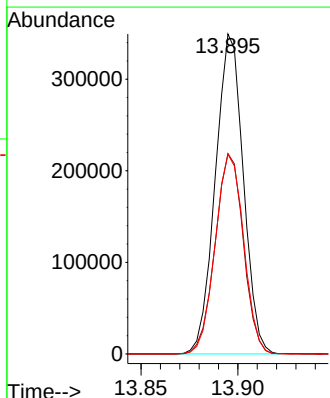
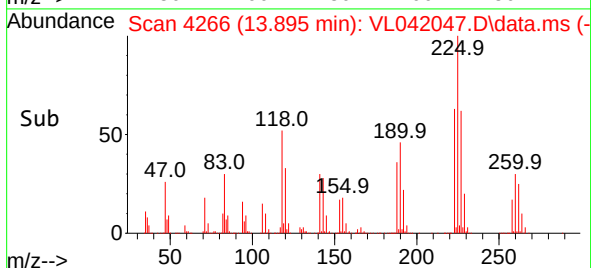
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

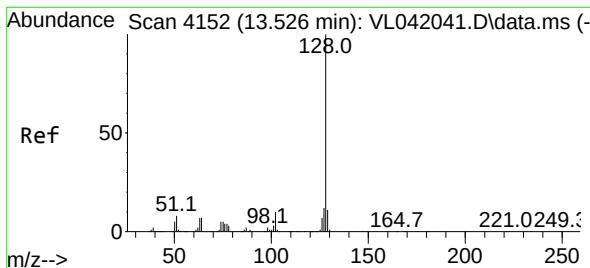


#78
Hexachloro-1,3-Butadiene
Concen: 12.403 ppbv
RT: 13.895 min Scan# 4266
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07



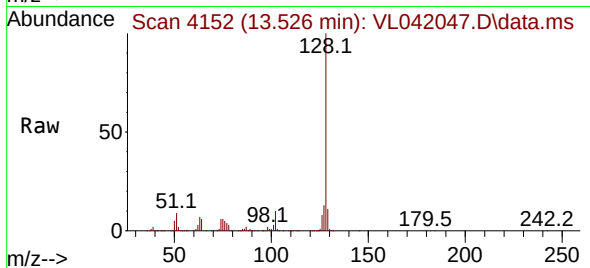
Tgt Ion:225 Resp: 351085
Ion Ratio Lower Upper
225 100
223 63.0 50.2 75.2
227 63.4 50.8 76.2





#79
Naphthalene
Concen: 11.696 ppbv
RT: 13.526 min Scan# 4152
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

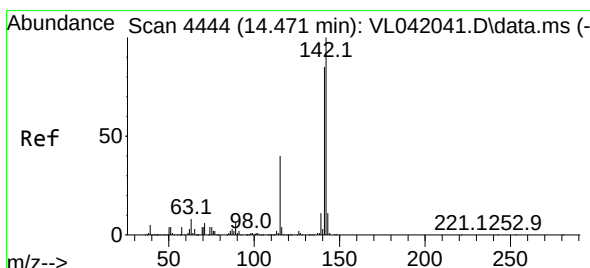
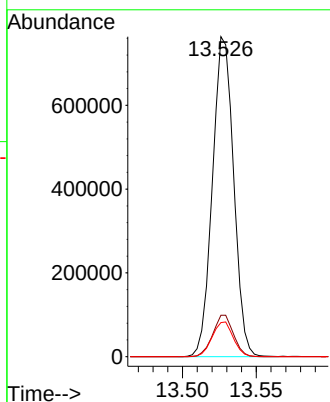
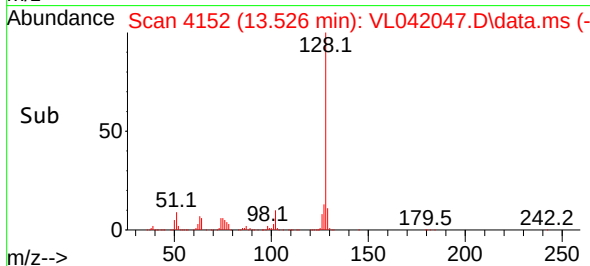
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



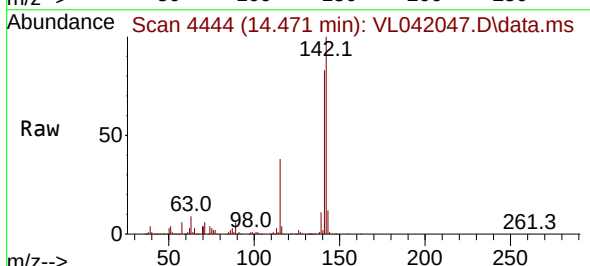
Tgt Ion:128 Resp: 764990
Ion Ratio Lower Upper
128 100
127 12.9 9.8 14.6
129 10.7 8.6 12.8

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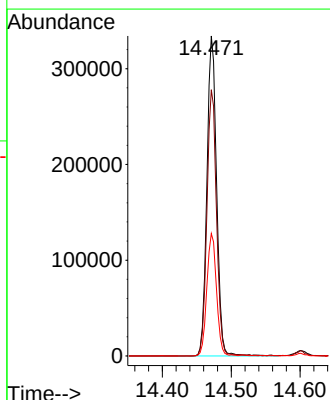
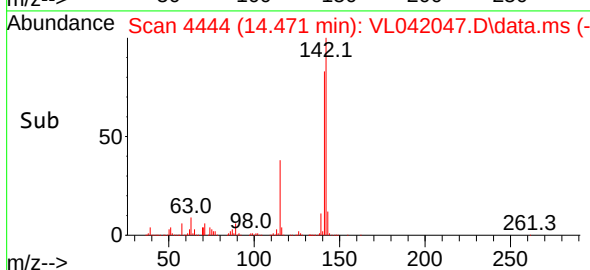
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

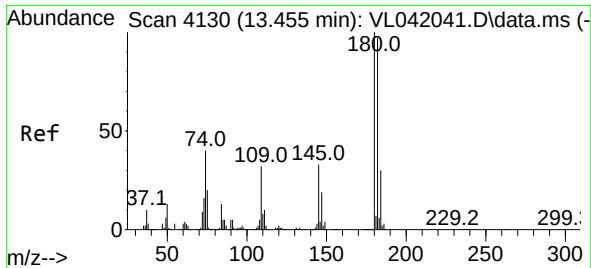


#80
Naphthalene,2-methyl-
Concen: 10.956 ppbv
RT: 14.471 min Scan# 4444
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07



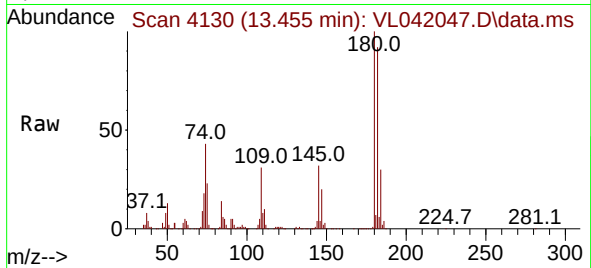
Tgt Ion:142 Resp: 324431
Ion Ratio Lower Upper
142 100
141 82.9 65.8 98.6
115 38.5 29.5 44.3





#81
 1,2,4-Trichlorobenzene
 Concen: 13.351 ppbv
 RT: 13.455 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL042047.D
 Acq: 25 Feb 2025 12:07

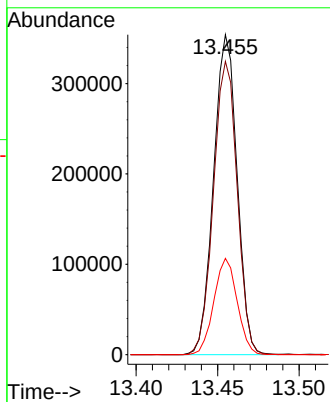
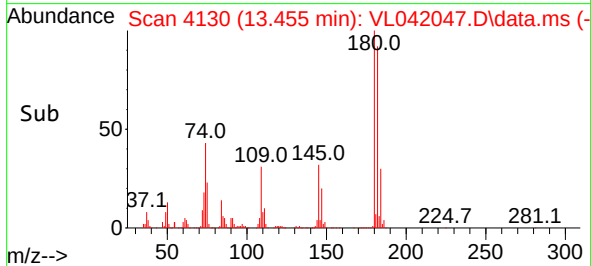
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



Tgt Ion	Ratio	Lower	Upper
180	100		
182	92.9	75.1	112.7
184	29.9	23.8	35.6

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Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042048.D
 Acq On : 25 Feb 2025 13:15
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL022525

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025
 Supervised By : Mahesh Dadoda 02/26/2025

Quant Time: Feb 26 01:31:59 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

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

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.800	49	158881	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.981	114	406520	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.904	117	350262	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.393 95 274527 10.188 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.900%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.505	85	158709	9.606	ppbv	99
3) Chlorodifluoromethane	1.479	51	219646	9.512	ppbv	100
4) Chloromethane	1.537	50	54628	8.941	ppbv	100
5) Vinyl Chloride	1.586	62	52672	9.114	ppbv	98
6) Bromomethane	1.673	94	25374	9.221	ppbv	100
7) Chloroethane	1.709	64	22174	9.443	ppbv #	87
8) Dichlorotetrafluoroethane	1.560	85	127046	9.354	ppbv	100
9) Propene	1.489	41	90844	9.657	ppbv	96
10) Heptane	5.010	43	269133	9.188	ppbv	99
11) Trichlorofluoromethane	1.884	101	156871	9.476	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.149	101	115089	8.715	ppbv	99
13) Ethanol	1.728	45	2630	4.404	ppbv	98
14) Bromoethene	1.790	108	43546	9.338	ppbv	98
15) Acetone	1.842	43	118697	8.460	ppbv	97
16) 1,3-Butadiene	1.615	39	61603	9.434	ppbv	98
17) tert-Butyl alcohol	2.049	59	154116	8.779	ppbv	98
18) 1,1-Dichloroethene	2.042	96	51973	8.711	ppbv	98
19) Isopropyl Alcohol	1.894	45	69546	8.629	ppbv	96
20) Methylene Chloride	2.072	84	42028	7.919	ppbv	96
21) Allyl Chloride	2.104	41	90745	8.951	ppbv	98
22) trans-1,2-Dichloroethene	2.350	96	59140	8.502	ppbv	98
23) Vinyl Acetate	2.476	43	93605	9.488	ppbv #	98
24) 1,1-Dichloroethane	2.421	63	112869	8.721	ppbv	100
25) Ethyl Acetate	2.852	43	533113	9.492	ppbv	99
26) Hexane	2.839	57	208955	9.203	ppbv	97
27) Carbon Disulfide	2.159	76	138176	8.978	ppbv	97
28) Methyl tert-Butyl Ether	2.453	73	94554	8.365	ppbv	100
29) Chloroform	2.865	83	281191	9.202	ppbv	97
30) Cyclohexane	3.878	84	168830	9.161	ppbv	94
31) cis-1,2-Dichloroethene	2.735	61	199564	9.285	ppbv	99
32) 1,1,1-Trichloroethane	3.386	97	278512	9.396	ppbv	98
34) 2-Butanone	2.570	43	308064	9.727	ppbv	97
35) Carbon Tetrachloride	3.784	117	276599	9.867	ppbv	98
36) Benzene	3.677	78	399804	9.395	ppbv	98
37) 1,2-Dichloroethane	3.233	62	223946	9.491	ppbv	99
38) Trichloroethene	4.573	130	156488	9.005	ppbv	96
39) 1,2-Dichloropropane	4.340	63	152063	9.414	ppbv	97
40) 1,4-Dioxane	4.616	88	65010	8.817	ppbv #	98
41) Tetrahydrofuran	3.072	42	181453	9.696	ppbv	99
42) Bromodichloromethane	4.512	83	305385	9.606	ppbv	97
43) Methyl Methacrylate	4.910	69	160954	9.685	ppbv	95
44) 2,2,4-Trimethylpentane	4.667	57	712051	9.480	ppbv	99
45) t-1,3-Dichloropropene	6.447	75	159680	9.671	ppbv	90

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042048.D
 Acq On : 25 Feb 2025 13:15
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL022525

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 26 01:31:59 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

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

QLast Update : Wed Feb 26 01:08:36 2025

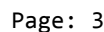
Response via : Initial Calibration

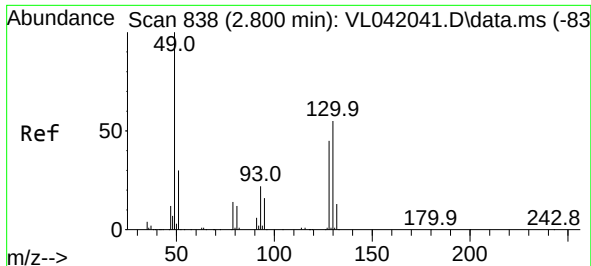
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.635	75	206836	9.680	ppbv	96
47) 1,1,2-Trichloroethane	6.613	97	148220	9.039	ppbv	95
48) Dibromochloromethane	7.412	129	241593	9.407	ppbv	100
49) Bromoform	9.503	173	210370	9.432	ppbv	98
50) 4-Methyl-2-Pentanone	5.790	43	431123	10.526	ppbv	98
51) 2-Hexanone	7.464	43	354515	12.576	ppbv #	100
52) Tetrachloroethene	8.247	164	134062	9.202	ppbv	97
53) Toluene	6.962	91	448495	9.430	ppbv	98
54) 1,2-Dibromoethane	7.677	107	206335	9.307	ppbv	96
56) 1,1,1,2-Tetrachloroethane	8.946	131	182800	9.234	ppbv	99
57) Chlorobenzene	8.943	112	334696	9.216	ppbv	99
58) Ethyl Benzene	9.377	91	613622	9.513	ppbv	99
59) m/p-Xylene	9.571	91	977425m	19.041	ppbv	
60) o-Xylene	9.985	91	481683	9.334	ppbv	100
61) Styrene	9.891	104	241617	9.959	ppbv	99
62) Isopropylbenzene	10.558	105	729350	9.437	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.982	83	312794	9.204	ppbv	99
64) n-propylbenzene	11.008	120	192704	9.506	ppbv	99
65) tert-Butylbenzene	11.548	119	632202	8.988	ppbv	100
66) Benzyl Chloride	11.633	91	52645	9.808	ppbv	98
67) sec-Butylbenzene	11.785	105	914405	9.090	ppbv	99
69) p-Isopropyltoluene	11.940	119	753761	9.418	ppbv	100
70) n-Butylbenzene	12.296	91	781034	9.560	ppbv	99
71) 2-Chlorotoluene	10.917	91	559993	9.399	ppbv	100
72) 4-Ethyltoluene	11.144	105	602156	9.557	ppbv	99
73) 1,3,5-Trimethylbenzene	11.222	105	505451	9.248	ppbv	100
74) 1,2,4-Trimethylbenzene	11.555	105	547176	8.891	ppbv	95
75) 1,3-Dichlorobenzene	11.623	146	324491	9.161	ppbv	98
76) 1,4-Dichlorobenzene	11.688	146	322712	9.176	ppbv	99
77) 1,2-Dichlorobenzene	11.963	146	312159	9.081	ppbv	99
78) Hexachloro-1,3-Butadiene	13.895	225	228480	8.543	ppbv	99
79) Naphthalene	13.529	128	513148	12.160	ppbv	98
80) Naphthalene,2-methyl-	14.474	142	198077	17.152	ppbv	98
81) 1,2,4-Trichlorobenzene	13.455	180	234354	9.965	ppbv	97

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

Manual Integrations

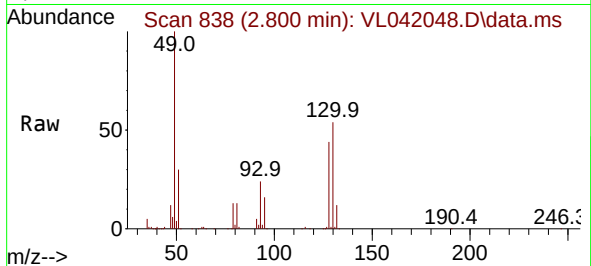
Quant Time: Feb 26 01:31:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL02252SAIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 838
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

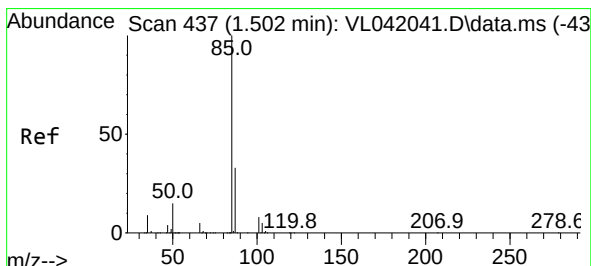
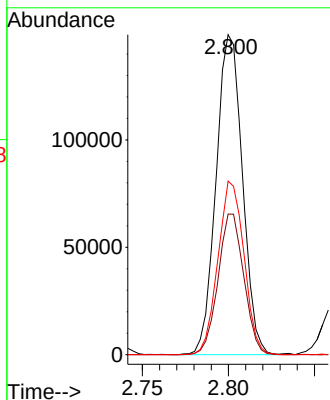
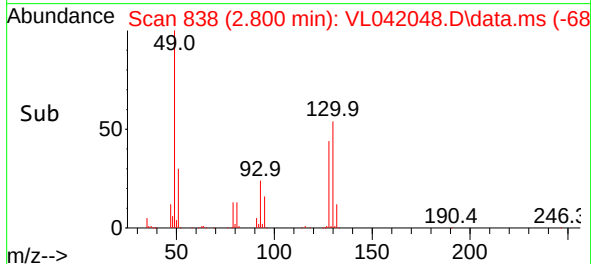
Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525



Tgt Ion: 49 Resp: 15888
Ion Ratio Lower Upper
49 100
128 43.0 21.6 64.8
130 53.4 27.8 83.4

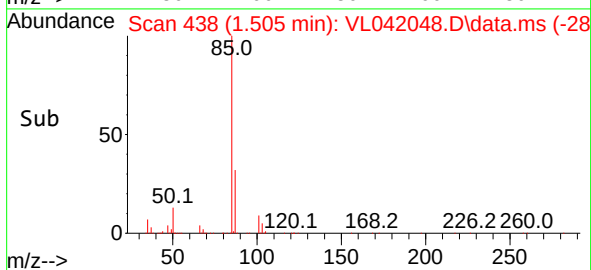
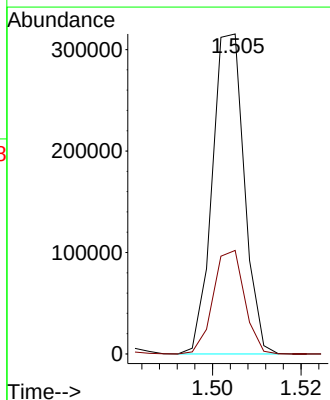
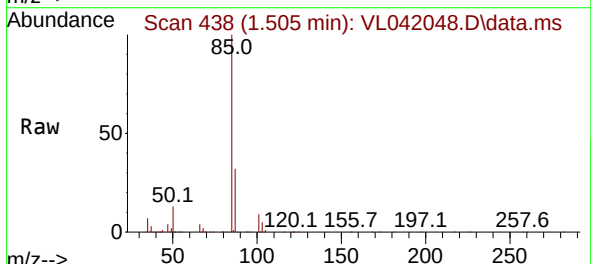
Manual Integrations
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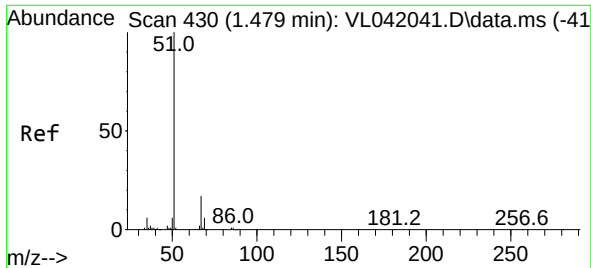
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#2
Dichlorodifluoromethane
Concen: 9.606 ppbv
RT: 1.505 min Scan# 438
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

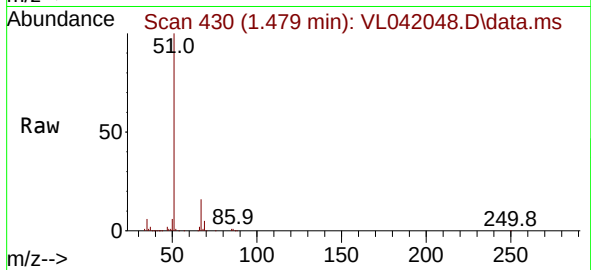
Tgt Ion: 85 Resp: 158709
Ion Ratio Lower Upper
85 100
87 32.4 26.4 39.6





#3
Chlorodifluoromethane
Concen: 9.512 ppbv
RT: 1.479 min Scan# 430
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

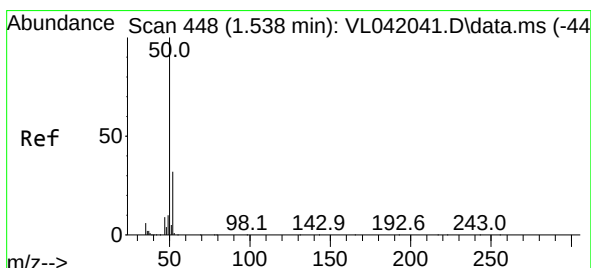
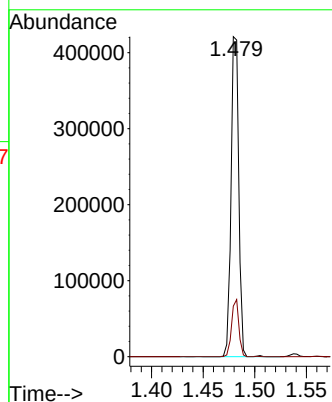
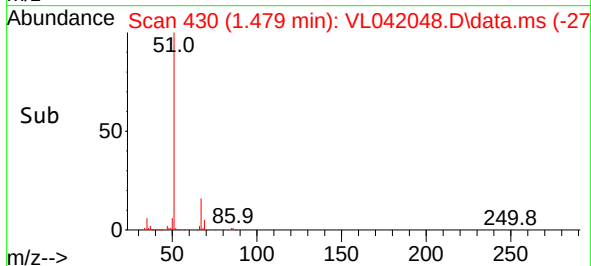
Instrument : MSVOA_L
ClientSampleId : ICVVL022525



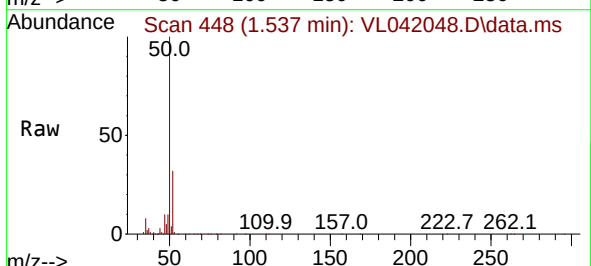
Tgt Ion: 51 Resp: 219640
Ion Ratio Lower Upper
51 100
67 16.9 13.7 20.5

Manual Integrations
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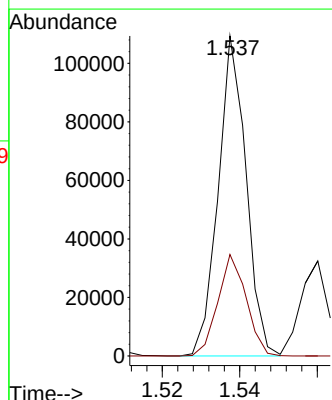
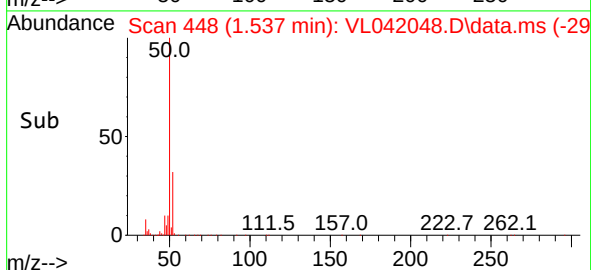
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

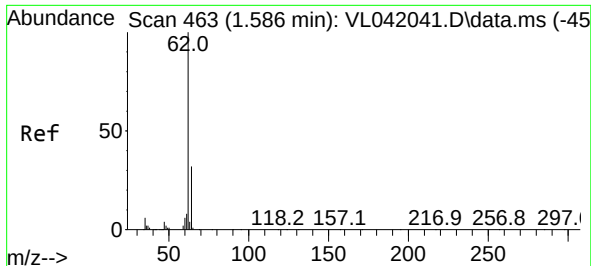


#4
Chloromethane
Concen: 8.941 ppbv
RT: 1.537 min Scan# 448
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15



Tgt Ion: 50 Resp: 54628
Ion Ratio Lower Upper
50 100
52 31.7 25.4 38.0





#5
 Vinyl Chloride
 Concen: 9.114 ppbv
 RT: 1.586 min Scan# 40
 Delta R.T. -0.000 min
 Lab File: VL042048.D
 Acq: 25 Feb 2025 13:15

Instrument :

MSVOA_L

ClientSampleId :

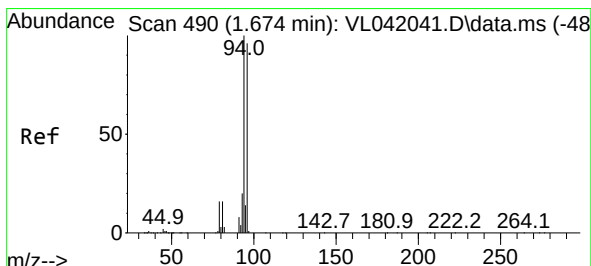
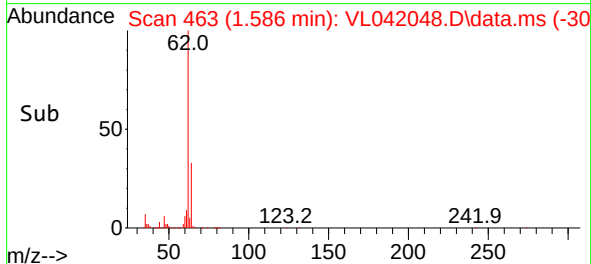
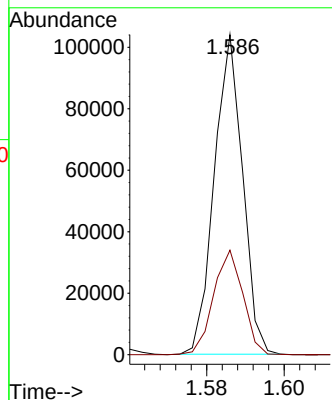
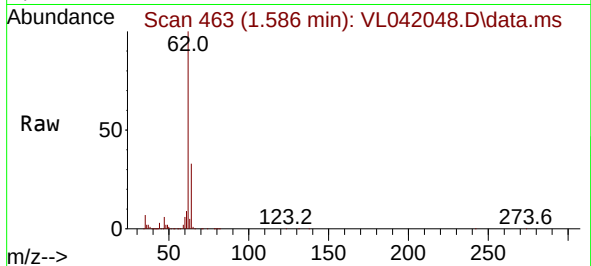
ICVVL022525

Tgt Ion: 62 Resp: 52672
 Ion Ratio Lower Upper
 62 100
 64 32.6 25.3 37.9

Manual Integrations

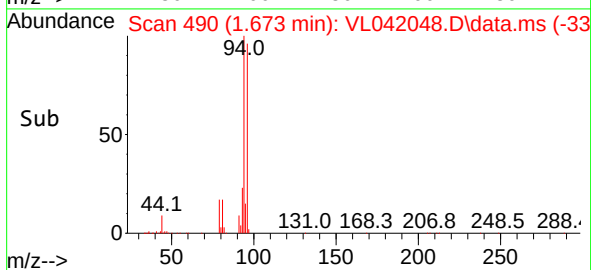
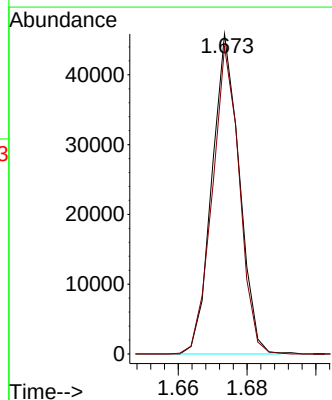
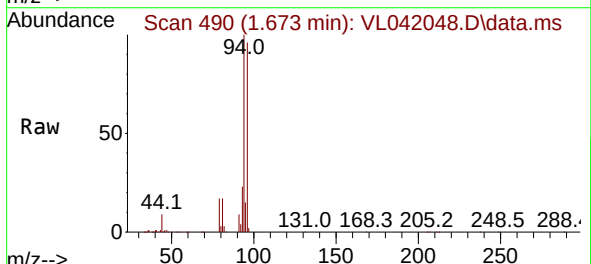
APPROVED

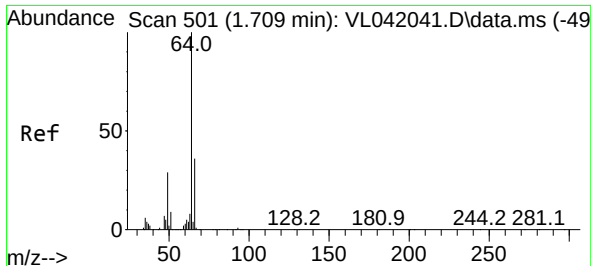
Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025



#6
 Bromomethane
 Concen: 9.221 ppbv
 RT: 1.673 min Scan# 490
 Delta R.T. -0.000 min
 Lab File: VL042048.D
 Acq: 25 Feb 2025 13:15

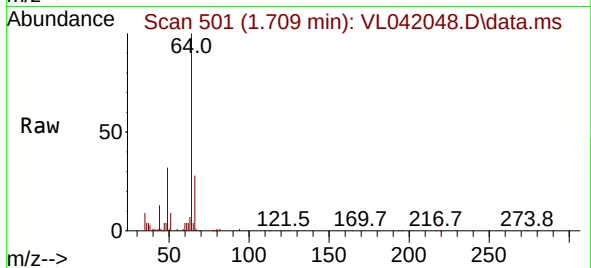
Tgt Ion: 94 Resp: 25374
 Ion Ratio Lower Upper
 94 100
 96 96.0 76.5 114.7





#7
Chloroethane
Concen: 9.443 ppbv
RT: 1.709 min Scan# 501
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

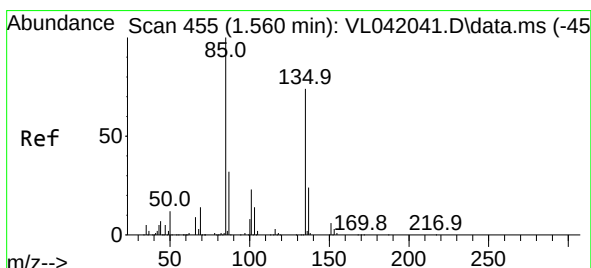
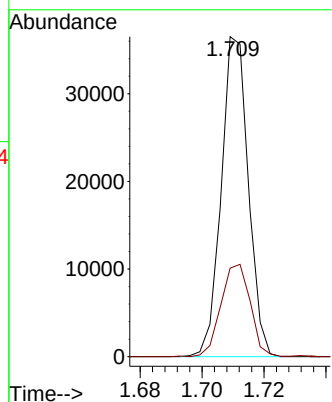
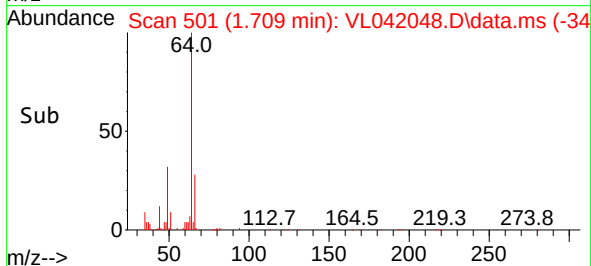
Instrument : MSVOA_L
ClientSampleId : ICVVL022525



Tgt Ion: 64 Resp: 22174
Ion Ratio Lower Upper
64 100
66 27.6 28.4 42.6

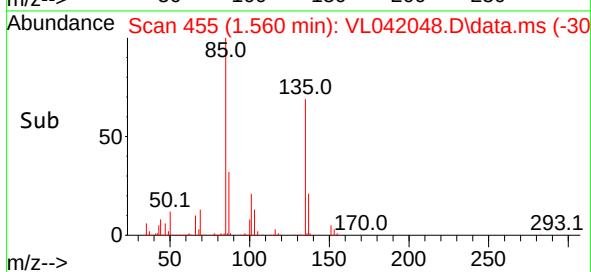
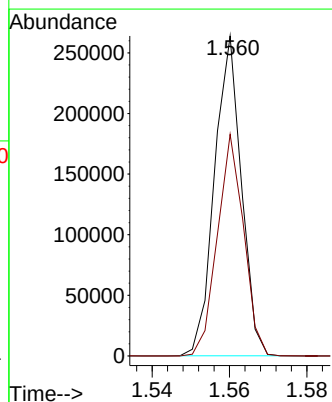
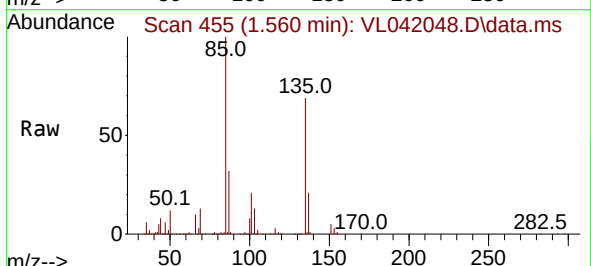
Manual Integrations
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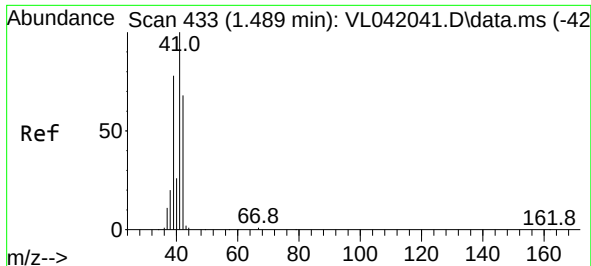
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#8
Dichlorotetrafluoroethane
Concen: 9.354 ppbv
RT: 1.560 min Scan# 455
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 85 Resp: 127046
Ion Ratio Lower Upper
85 100
135 68.0 54.6 81.8





#9

Propene

Concen: 9.657 ppbv

RT: 1.489 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042048.D

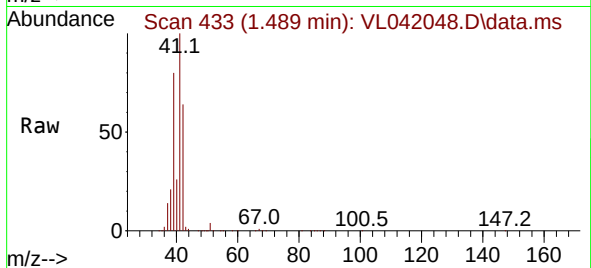
Acq: 25 Feb 2025 13:15

Instrument :

MSVOA_L

ClientSampleId :

ICVVL022525

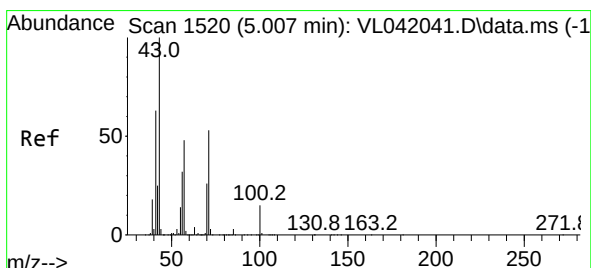
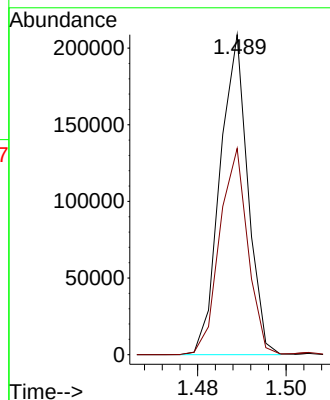
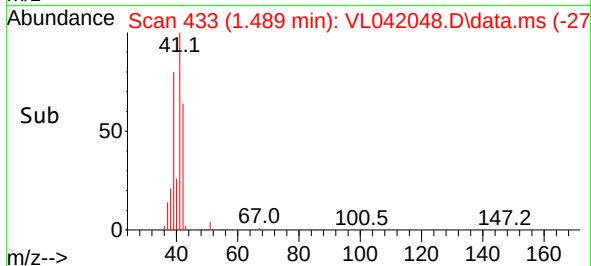


Tgt Ion:	41	Resp:	90844
Ion Ratio	Lower	Upper	
41	100		
42	66.2	55.8	83.6

Manual Integrations

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#10

Heptane

Concen: 9.188 ppbv

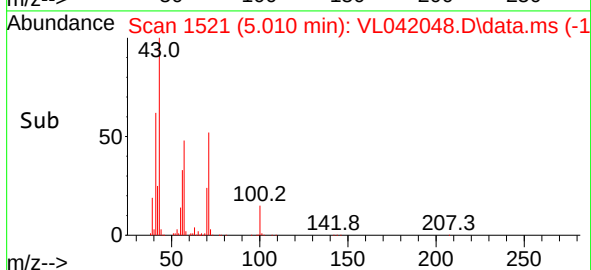
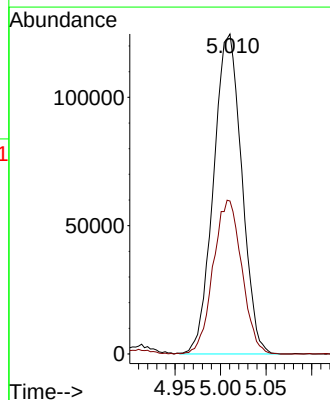
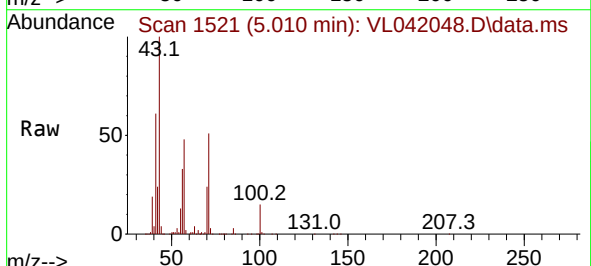
RT: 5.010 min Scan# 1521

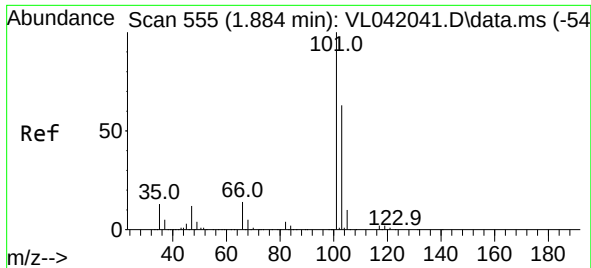
Delta R.T. 0.003 min

Lab File: VL042048.D

Acq: 25 Feb 2025 13:15

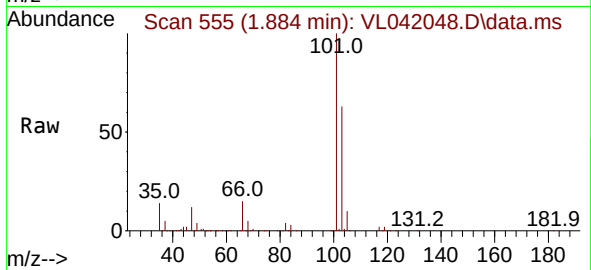
Tgt Ion:	43	Resp:	269133
Ion Ratio	Lower	Upper	
43	100		
57	48.6	39.4	59.0





#11
 Trichlorofluoromethane
 Concen: 9.476 ppbv
 RT: 1.884 min Scan# 511
 Delta R.T. -0.000 min
 Lab File: VL042048.D
 Acq: 25 Feb 2025 13:15

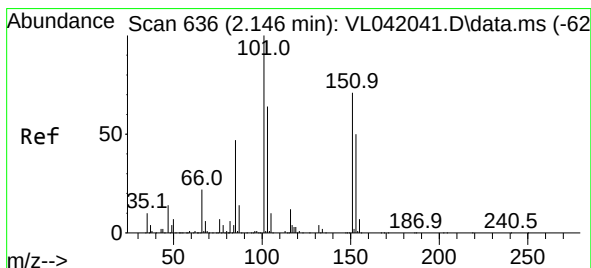
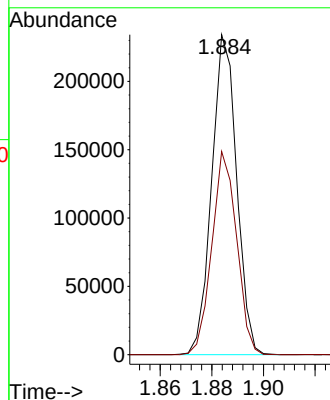
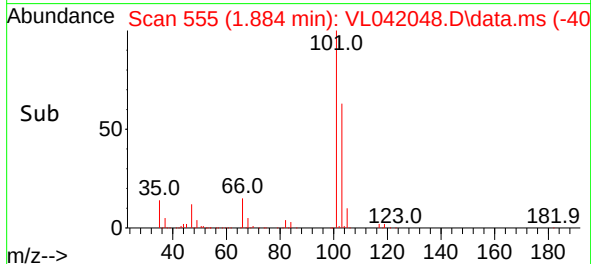
Instrument : MSVOA_L
 ClientSampleId : ICVVL022525



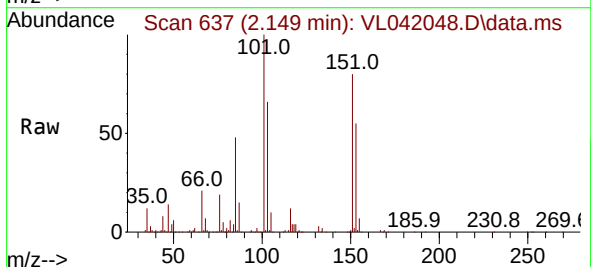
Tgt Ion:101 Resp: 15687
 Ion Ratio Lower Upper
 101 100
 103 63.5 50.6 75.8

Manual Integrations
 APPROVED

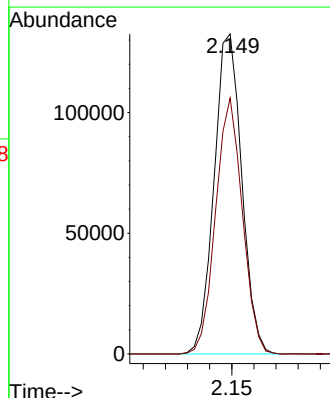
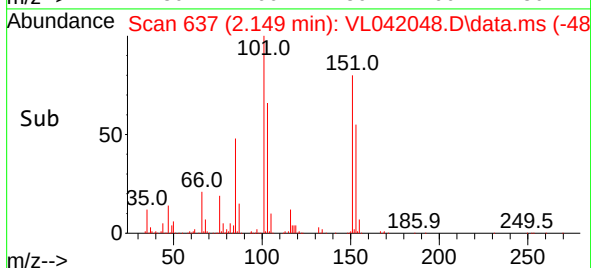
Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025

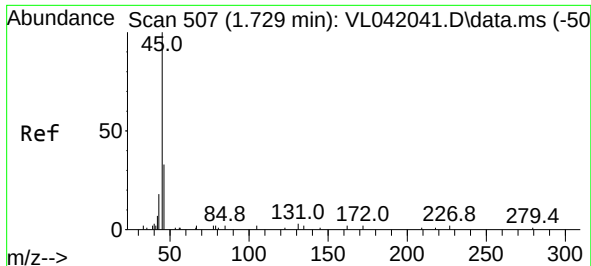


#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 8.715 ppbv
 RT: 2.149 min Scan# 637
 Delta R.T. 0.003 min
 Lab File: VL042048.D
 Acq: 25 Feb 2025 13:15



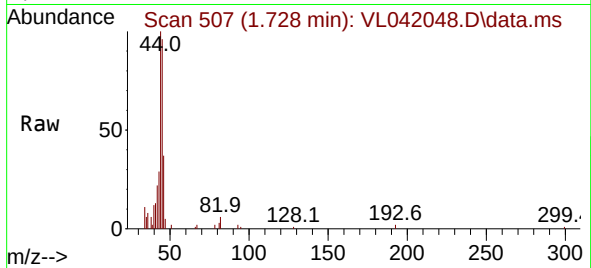
Tgt Ion:101 Resp: 115089
 Ion Ratio Lower Upper
 101 100
 151 77.3 62.6 94.0





#13
Ethanol
Concen: 4.404 ppbv
RT: 1.728 min Scan# 507
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

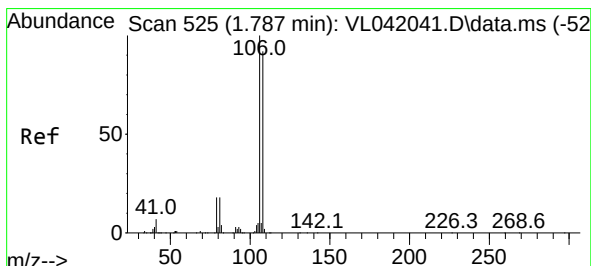
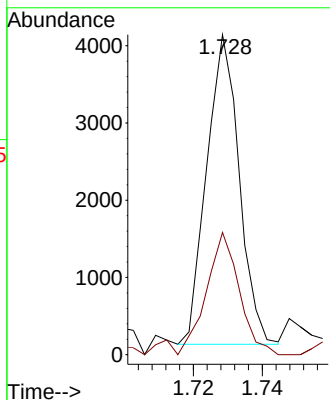
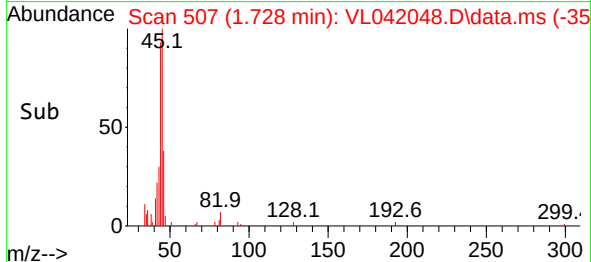
Instrument : MSVOA_L
ClientSampleId : ICVVL022525



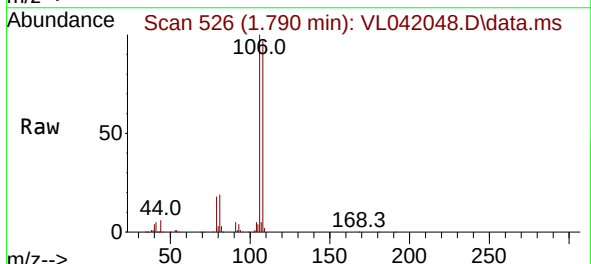
Tgt Ion: 45 Resp: 2630
Ion Ratio Lower Upper
45 100
46 44.0 17.1 68.3

Manual Integrations
APPROVED

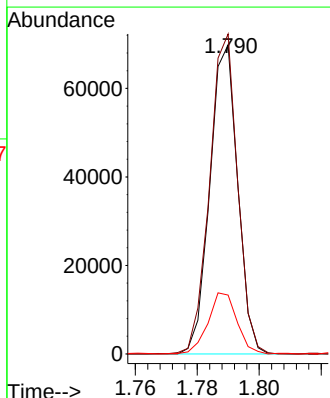
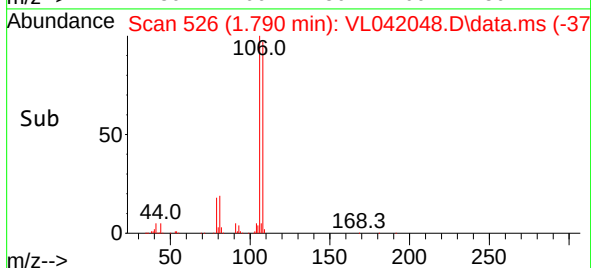
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

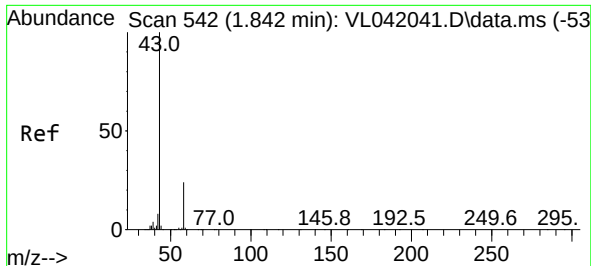


#14
Bromoethene
Concen: 9.338 ppbv
RT: 1.790 min Scan# 526
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15



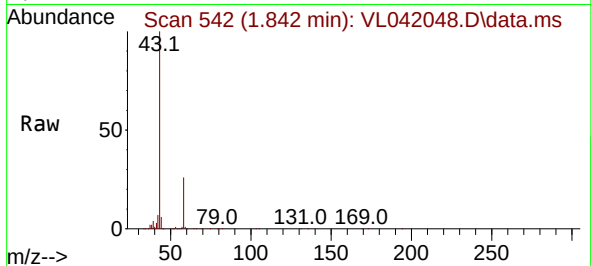
Tgt Ion:108 Resp: 43546
Ion Ratio Lower Upper
108 100
106 104.1 85.4 128.0
79 21.0 16.5 24.7





#15
Acetone
Concen: 8.460 ppbv
RT: 1.842 min Scan# 542
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

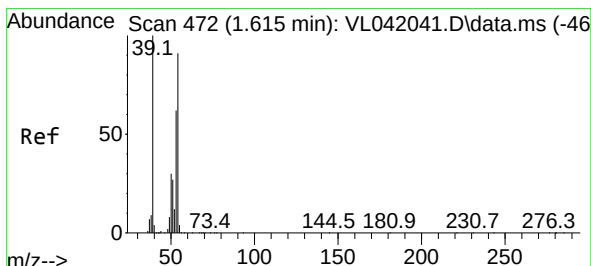
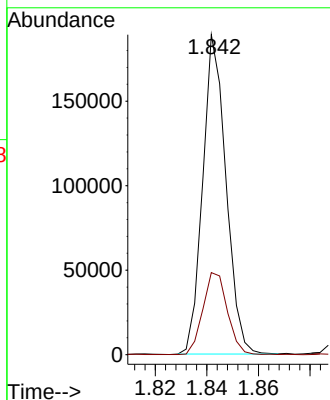
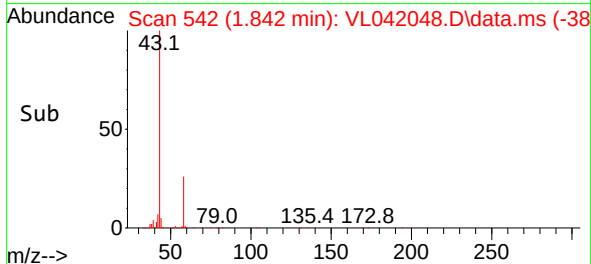
Instrument : MSVOA_L
ClientSampleId : ICVVL022525



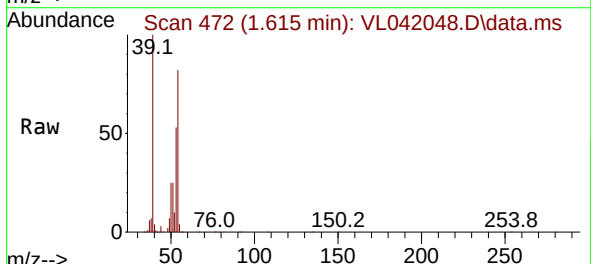
Tgt Ion: 43 Resp: 118697
Ion Ratio Lower Upper
43 100
58 27.3 20.7 31.1

Manual Integrations
APPROVED

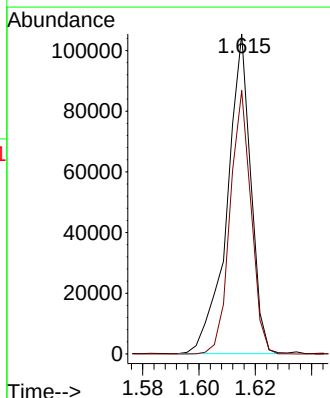
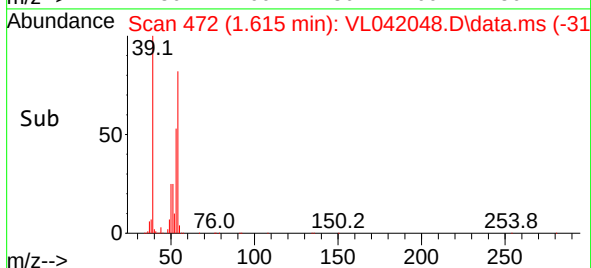
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

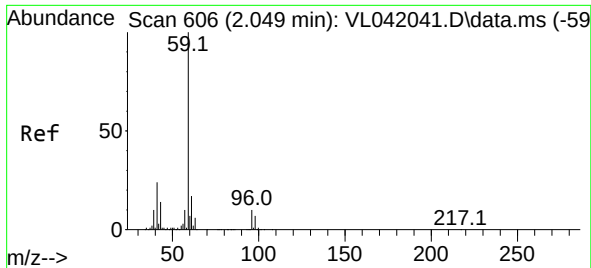


#16
1,3-Butadiene
Concen: 9.434 ppbv
RT: 1.615 min Scan# 472
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15



Tgt Ion: 39 Resp: 61603
Ion Ratio Lower Upper
39 100
54 72.5 59.6 89.4





#17

tert-Butyl alcohol

Concen: 8.779 ppbv

RT: 2.049 min Scan# 606

Delta R.T. -0.000 min

Lab File: VL042048.D

Acq: 25 Feb 2025 13:15

Instrument :

MSVOA_L

ClientSampleId :

ICVVL022525

Tgt Ion: 59 Resp: 154110

Ion Ratio Lower Upper

59 100

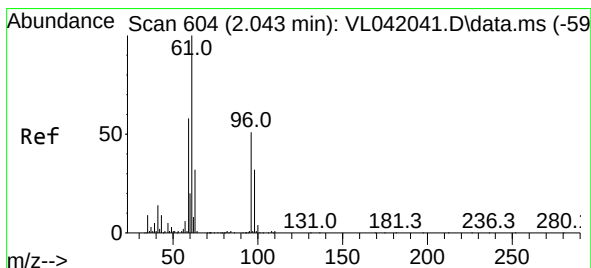
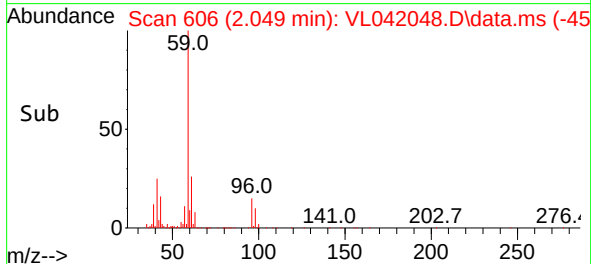
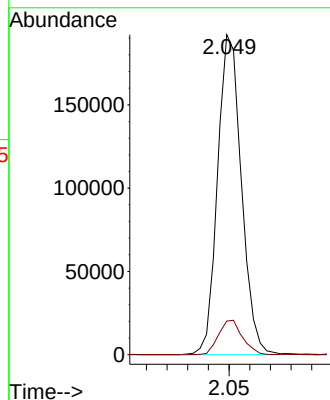
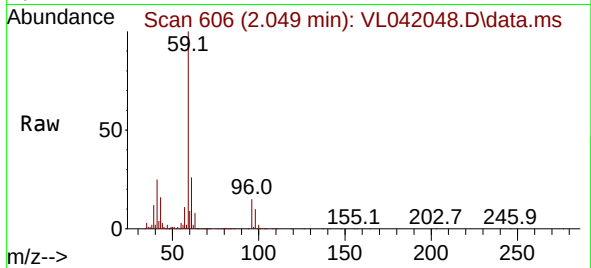
57 10.8 9.3 13.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025

Supervised By :Mahesh Dadoda 02/26/2025



#18

1,1-Dichloroethene

Concen: 8.711 ppbv

RT: 2.042 min Scan# 604

Delta R.T. -0.000 min

Lab File: VL042048.D

Acq: 25 Feb 2025 13:15

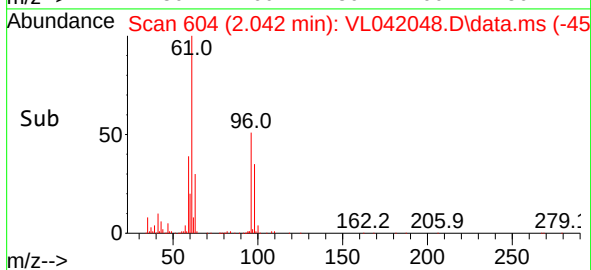
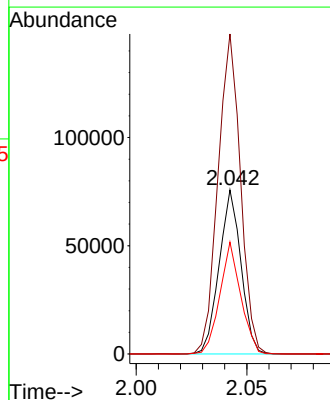
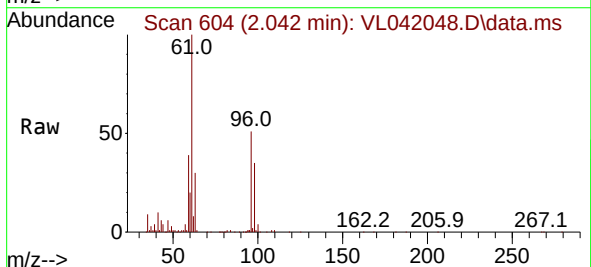
Tgt Ion: 96 Resp: 51973

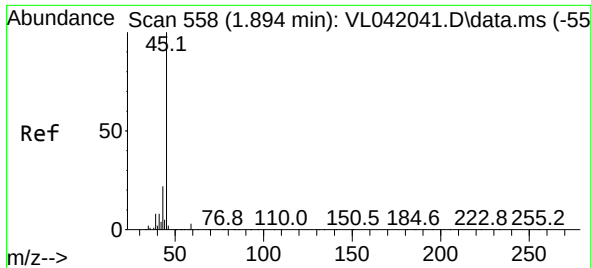
Ion Ratio Lower Upper

96 100

61 195.1 156.0 234.0

98 68.3 49.4 74.2





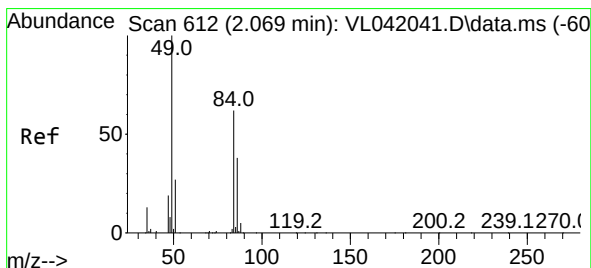
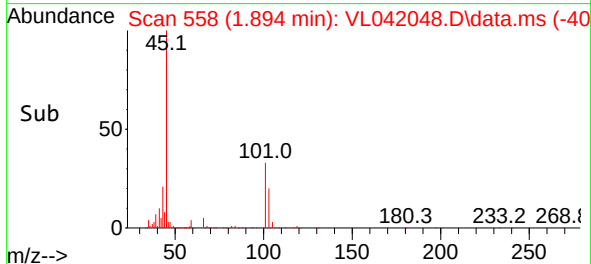
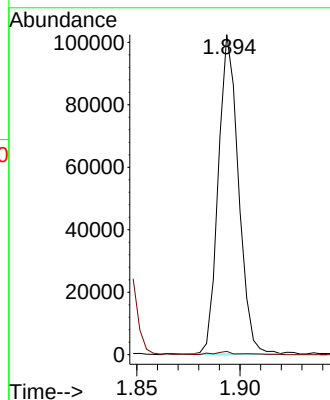
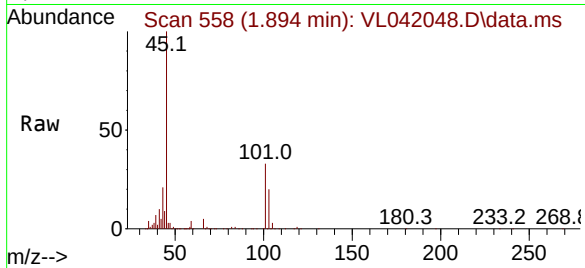
#19
Isopropyl Alcohol
Concen: 8.629 ppbv
RT: 1.894 min Scan# 558
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Instrument : MSVOA_L
ClientSampleId : ICVVL022525

Tgt Ion: 45 Resp: 69540
Ion Ratio Lower Upper
45 100
58 46.7 35.3 52.9

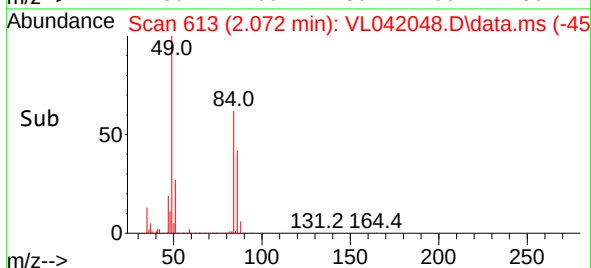
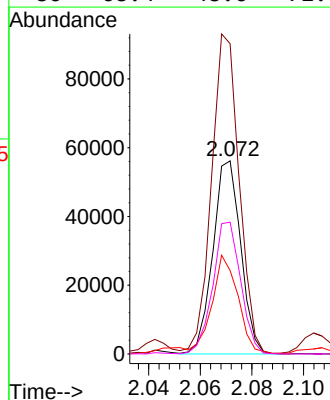
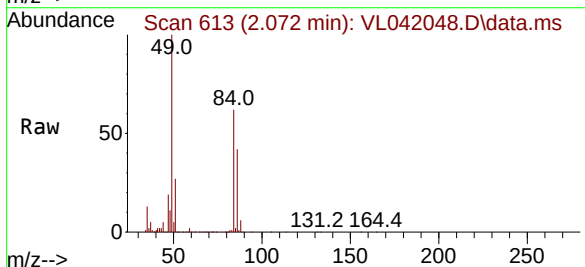
Manual Integrations
APPROVED

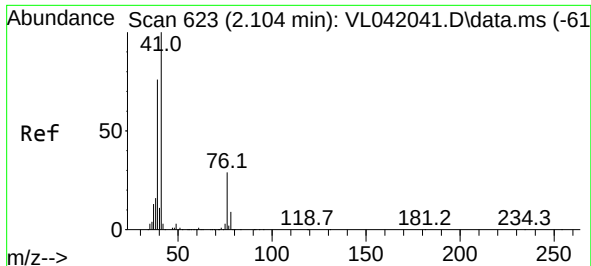
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#20
Methylene Chloride
Concen: 7.919 ppbv
RT: 2.072 min Scan# 613
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

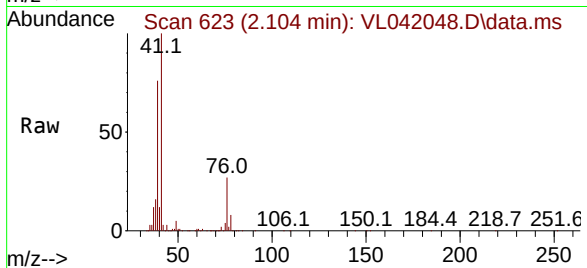
Tgt Ion: 84 Resp: 42028
Ion Ratio Lower Upper
84 100
49 160.5 130.0 195.0
51 43.0 37.4 56.0
86 68.4 48.6 72.8





#21
 Allyl Chloride
 Concen: 8.951 ppbv
 RT: 2.104 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: VL042048.D
 Acq: 25 Feb 2025 13:15

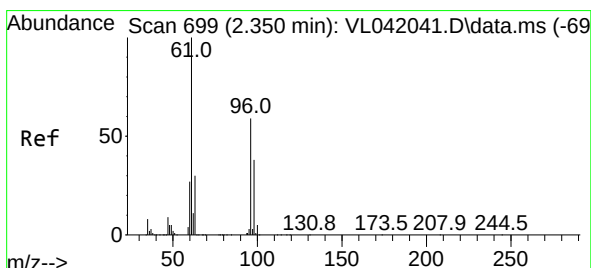
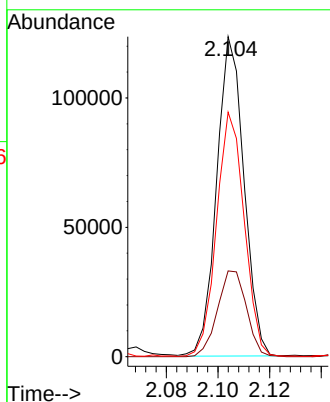
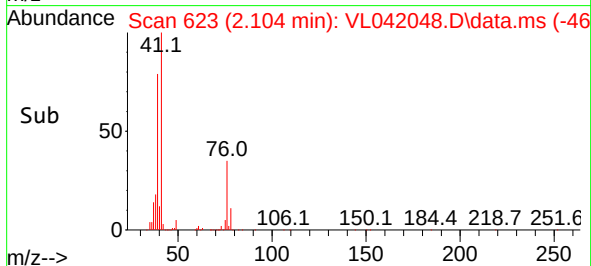
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL022525



Tgt Ion: 41 Resp: 90745
 Ion Ratio Lower Upper
 41 100
 76 28.5 23.8 35.6
 39 77.5 63.8 95.6

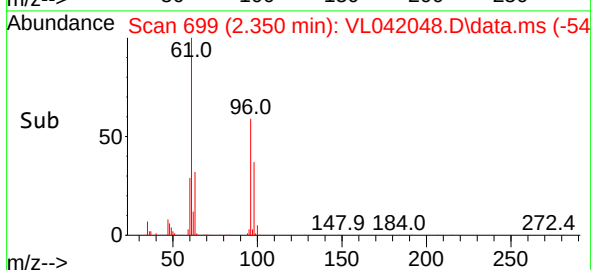
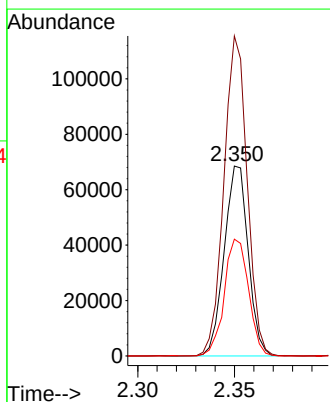
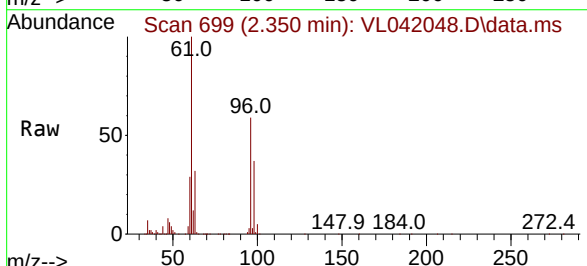
Manual Integrations
 APPROVED

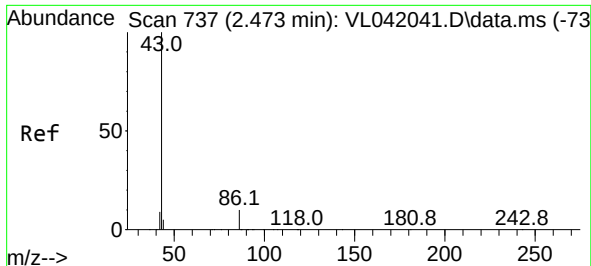
Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025



#22
 trans-1,2-Dichloroethene
 Concen: 8.502 ppbv
 RT: 2.350 min Scan# 699
 Delta R.T. -0.000 min
 Lab File: VL042048.D
 Acq: 25 Feb 2025 13:15

Tgt Ion: 96 Resp: 59140
 Ion Ratio Lower Upper
 96 100
 61 168.4 136.6 205.0
 98 61.5 51.8 77.6





#23
 Vinyl Acetate
 Concen: 9.488 ppbv
 RT: 2.476 min Scan# 71
 Delta R.T. 0.003 min
 Lab File: VL042048.D
 Acq: 25 Feb 2025 13:15

Instrument :

MSVOA_L

ClientSampleId :

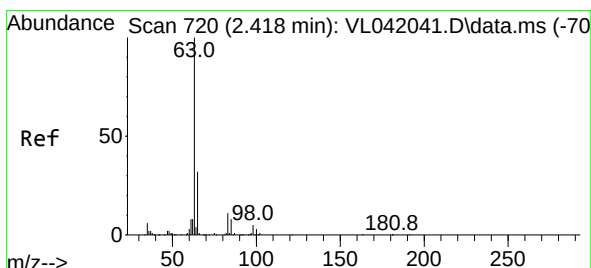
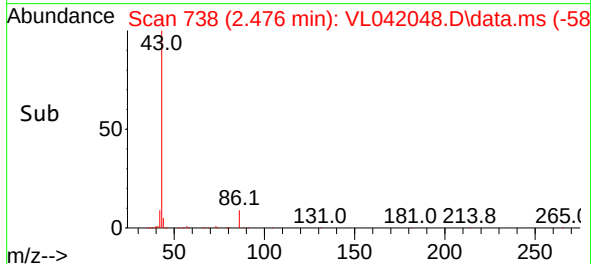
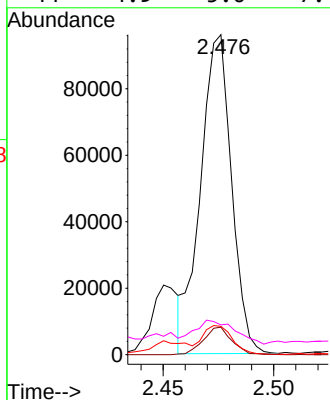
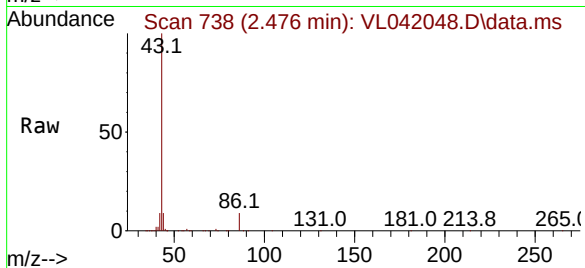
ICVVL022525

Tgt Ion: 43 Resp: 9360
 Ion Ratio Lower Upper
 43 100
 86 8.6 7.0 10.4
 42 8.3 7.6 11.4
 44 4.9 5.0 7.4#

Manual Integrations

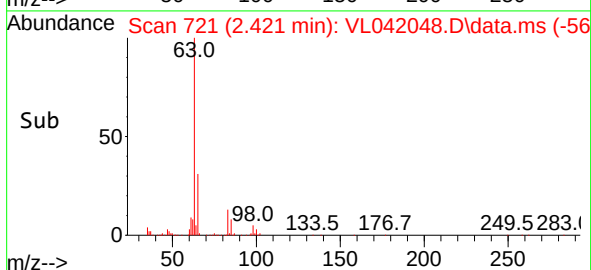
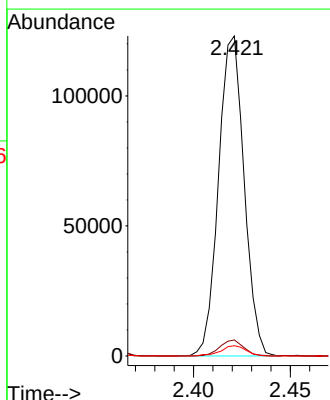
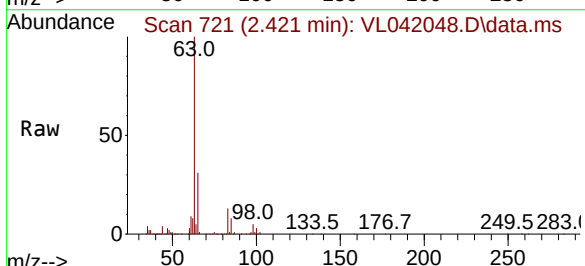
APPROVED

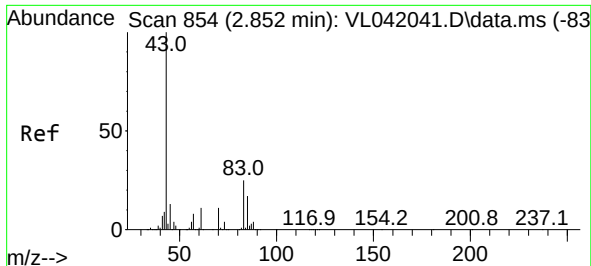
Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025



#24
 1,1-Dichloroethane
 Concen: 8.721 ppbv
 RT: 2.421 min Scan# 721
 Delta R.T. 0.003 min
 Lab File: VL042048.D
 Acq: 25 Feb 2025 13:15

Tgt Ion: 63 Resp: 112869
 Ion Ratio Lower Upper
 63 100
 98 5.0 2.4 7.2
 100 3.2 1.7 5.0





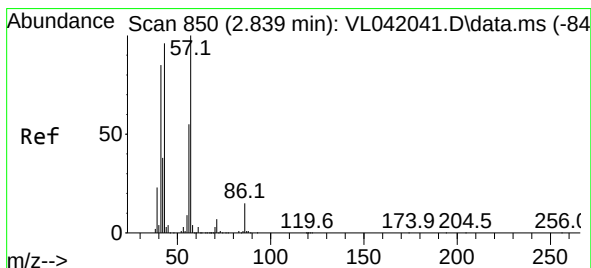
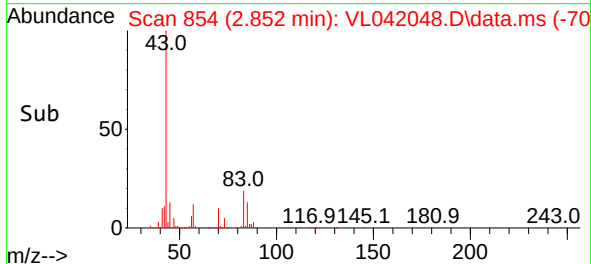
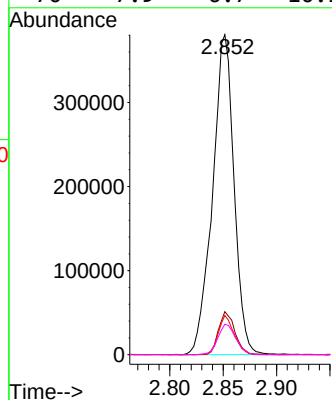
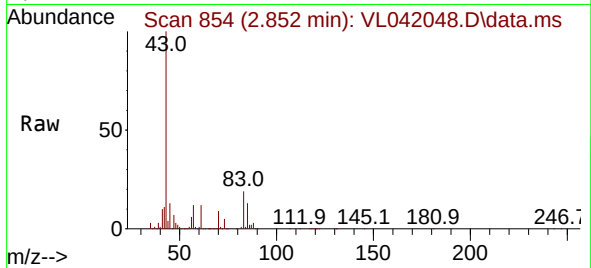
#25
Ethyl Acetate
Concen: 9.492 ppbv
RT: 2.852 min Scan# 854
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Instrument : MSVOA_L
ClientSampleId : ICVVL022525

Tgt Ion: 43	Resp: 53311
Ion Ratio	Lower Upper
43 100	
45 10.4	8.1 12.1
61 9.0	7.2 10.8
70 7.9	6.7 10.1

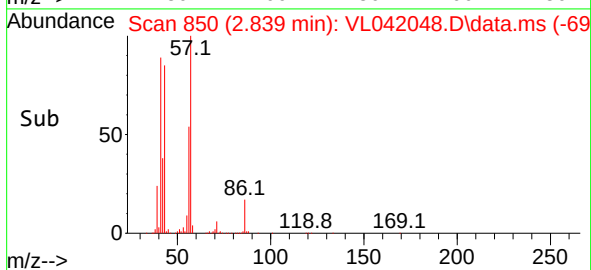
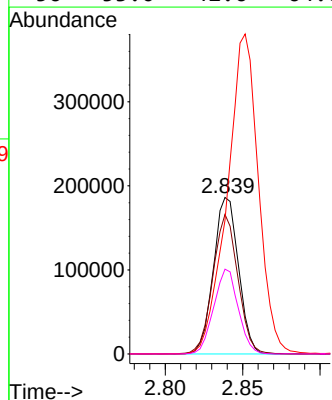
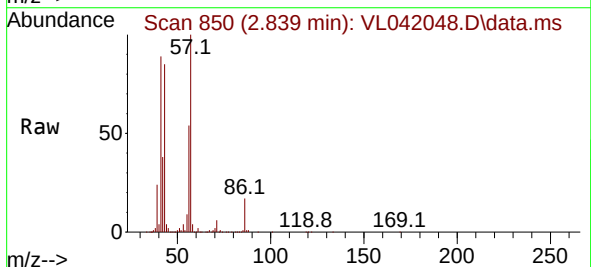
Manual Integrations
APPROVED

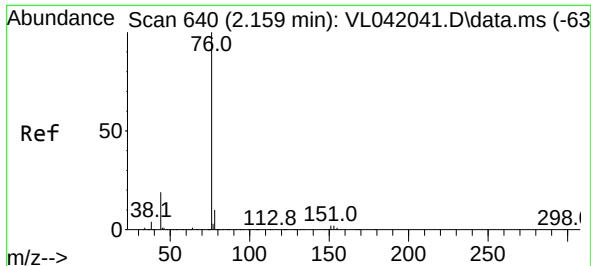
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#26
Hexane
Concen: 9.203 ppbv
RT: 2.839 min Scan# 850
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

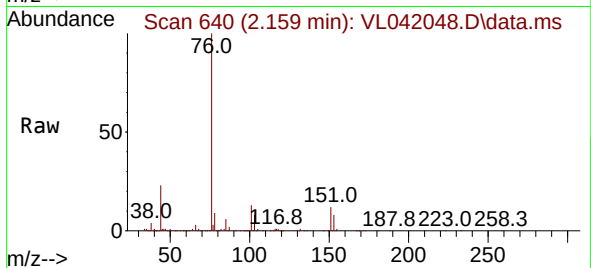
Tgt Ion: 57	Resp: 208955
Ion Ratio	Lower Upper
57 100	
41 89.5	70.6 106.0
43 256.2	199.4 299.0
56 53.0	42.6 64.0





#27
Carbon Disulfide
Concen: 8.978 ppbv
RT: 2.159 min Scan# 640
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

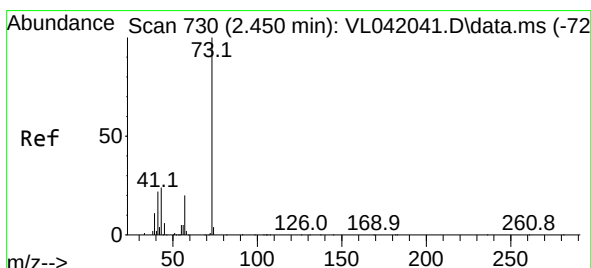
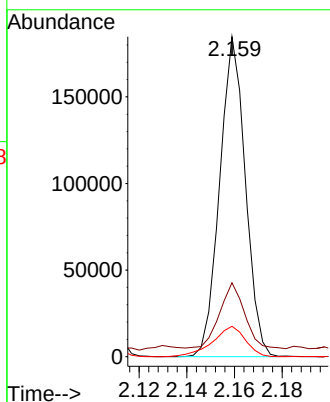
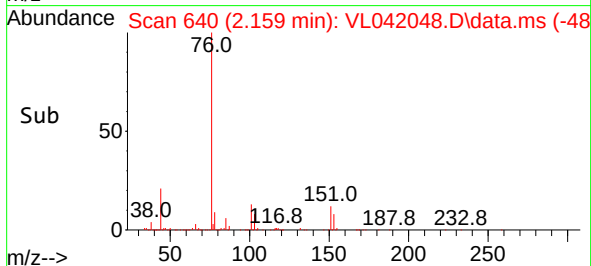
Instrument : MSVOA_L
ClientSampleId : ICVVL022525



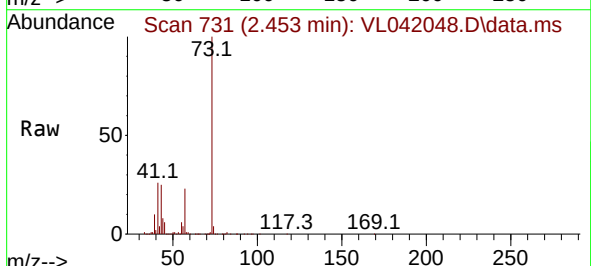
Tgt Ion: 76 Resp: 138170
Ion Ratio Lower Upper
76 100
44 21.9 16.2 24.2
78 12.1 9.4 14.0

Manual Integrations
APPROVED

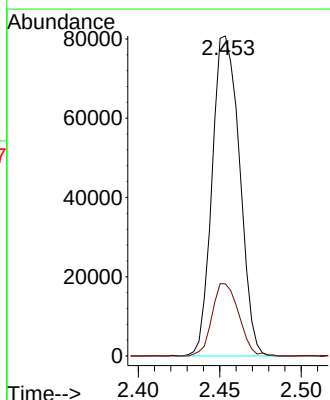
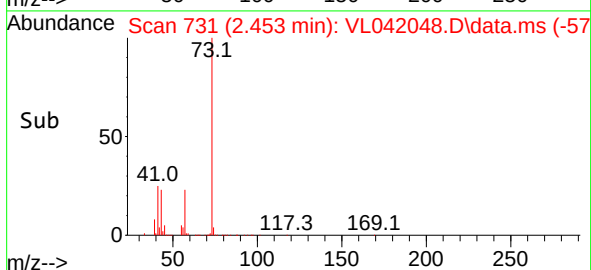
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

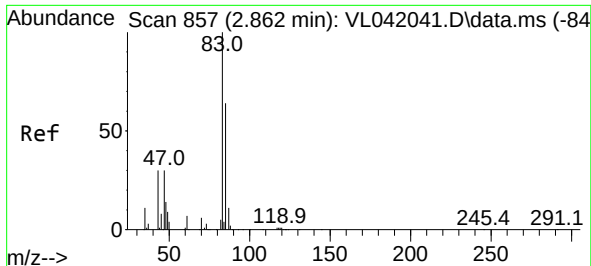


#28
Methyl tert-Butyl Ether
Concen: 8.365 ppbv
RT: 2.453 min Scan# 731
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15



Tgt Ion: 73 Resp: 94554
Ion Ratio Lower Upper
73 100
57 22.1 17.7 26.5





#29

Chloroform

Concen: 9.202 ppbv

RT: 2.865 min Scan# 85

Delta R.T. 0.003 min

Lab File: VL042048.D

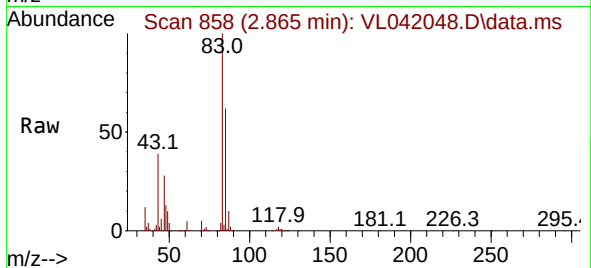
Acq: 25 Feb 2025 13:15

Instrument :

MSVOA_L

ClientSampleId :

ICVVL022525



Tgt Ion: 83 Resp: 28119

Ion Ratio Lower Upper

83 100

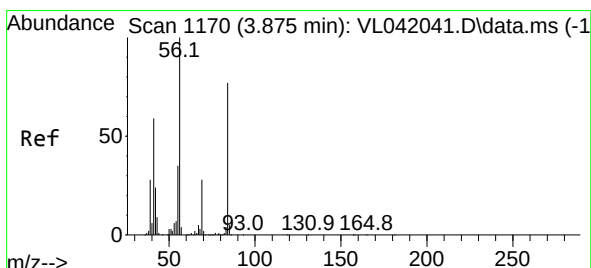
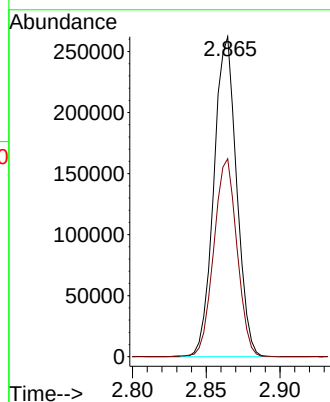
85 61.8 51.2 76.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025

Supervised By :Mahesh Dadoda 02/26/2025



#30

Cyclohexane

Concen: 9.161 ppbv

RT: 3.878 min Scan# 1171

Delta R.T. 0.003 min

Lab File: VL042048.D

Acq: 25 Feb 2025 13:15

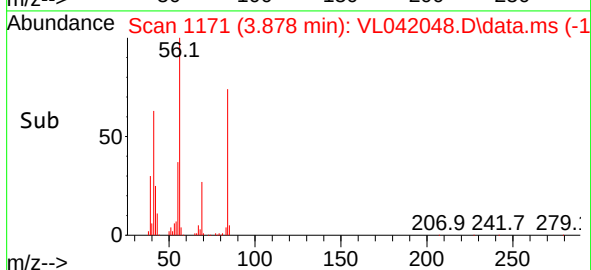
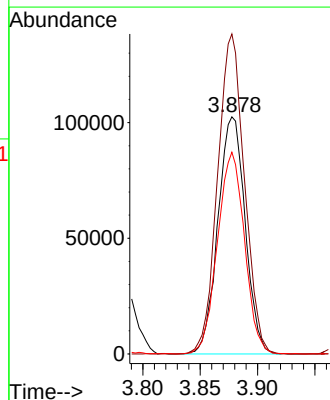
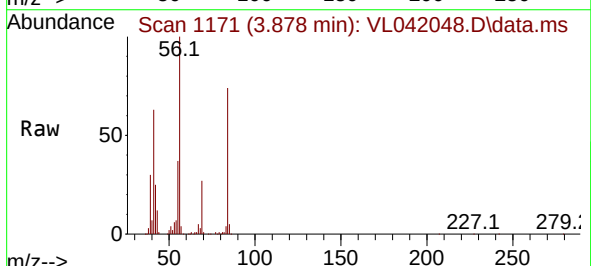
Tgt Ion: 84 Resp: 168830

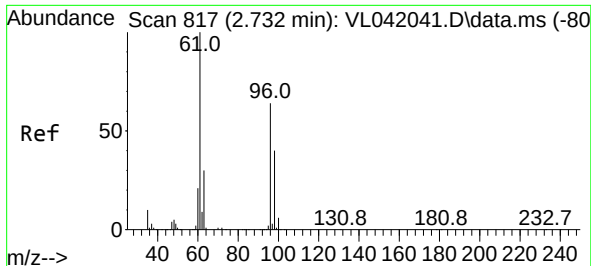
Ion Ratio Lower Upper

84 100

56 133.0 101.5 152.3

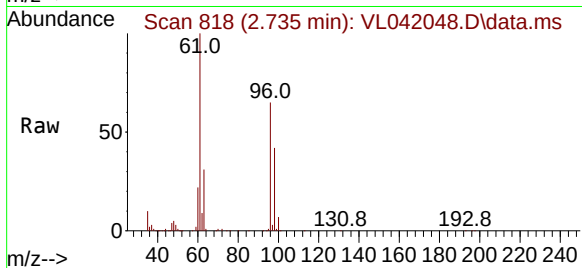
41 84.8 62.6 93.8





#31
 cis-1,2-Dichloroethene
 Concen: 9.285 ppbv
 RT: 2.735 min Scan# 817
 Delta R.T. 0.003 min
 Lab File: VL042048.D
 Acq: 25 Feb 2025 13:15

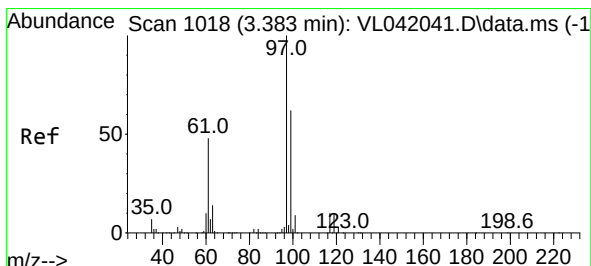
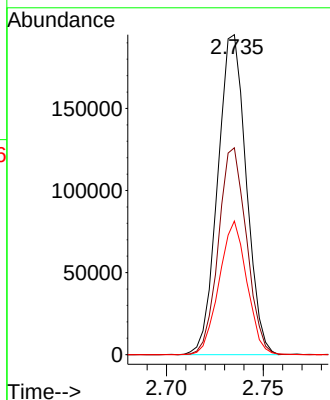
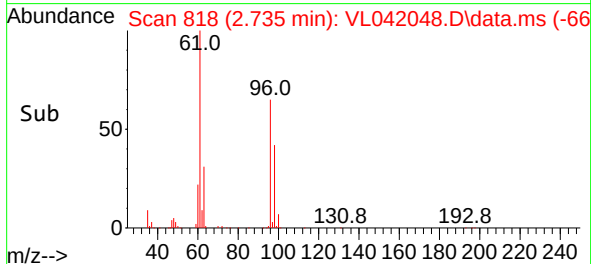
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL022525



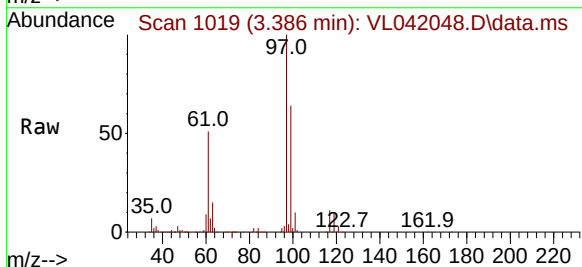
Tgt Ion: 61 Resp: 199564
 Ion Ratio Lower Upper
 61 100
 96 64.7 51.5 77.3
 98 41.8 32.0 48.0

Manual Integrations
 APPROVED

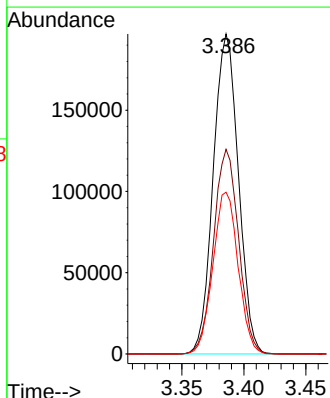
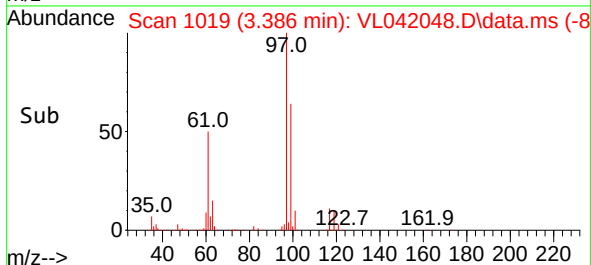
Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025

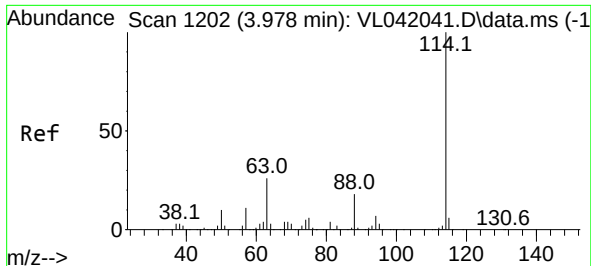


#32
 1,1,1-Trichloroethane
 Concen: 9.396 ppbv
 RT: 3.386 min Scan# 1019
 Delta R.T. 0.003 min
 Lab File: VL042048.D
 Acq: 25 Feb 2025 13:15



Tgt Ion: 97 Resp: 278512
 Ion Ratio Lower Upper
 97 100
 99 63.6 49.8 74.6
 61 50.8 38.9 58.3





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.981 min Scan# 114

Delta R.T. 0.003 min

Lab File: VL042048.D

Acq: 25 Feb 2025 13:15

Instrument :

MSVOA_L

ClientSampleId :

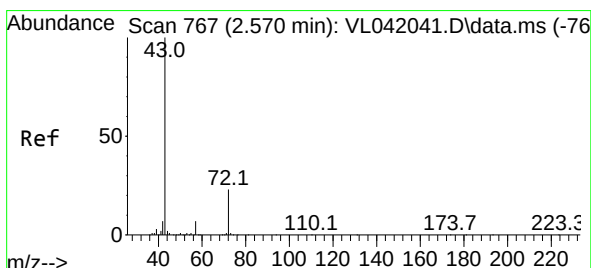
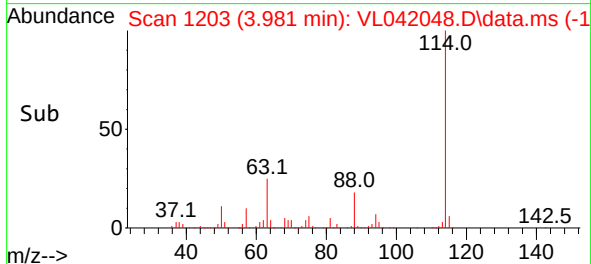
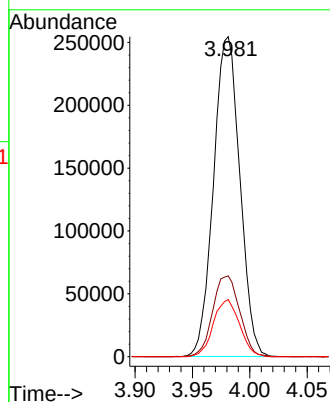
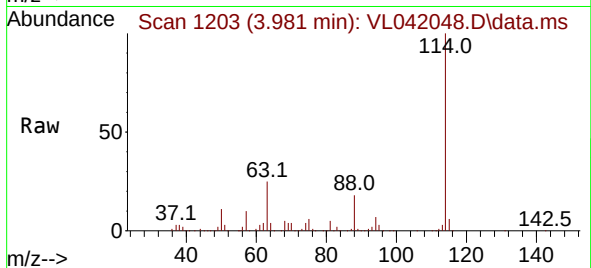
ICVVL022525

Tgt Ion:114 Resp: 406520
 Ion Ratio Lower Upper
 114 100
 63 25.9 20.1 30.1
 88 17.8 14.3 21.5

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025



#34

2-Butanone

Concen: 9.727 ppbv

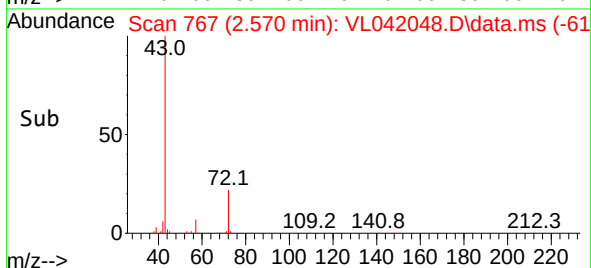
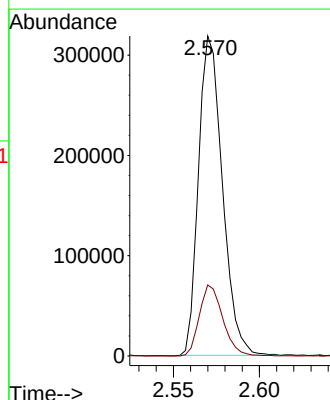
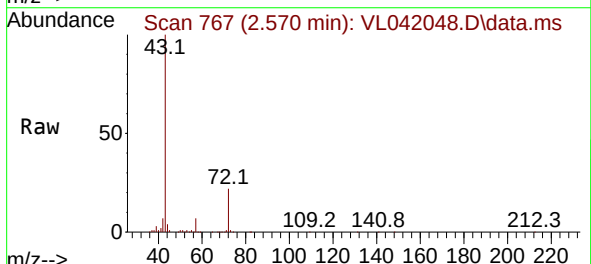
RT: 2.570 min Scan# 767

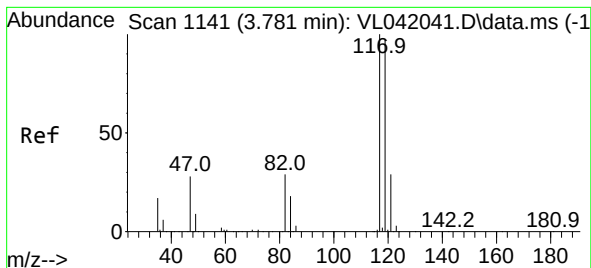
Delta R.T. -0.000 min

Lab File: VL042048.D

Acq: 25 Feb 2025 13:15

Tgt Ion: 43 Resp: 308064
 Ion Ratio Lower Upper
 43 100
 72 21.9 18.5 27.7





#35

Carbon Tetrachloride

Concen: 9.867 ppbv

RT: 3.784 min Scan# 1141

Delta R.T. 0.003 min

Lab File: VL042048.D

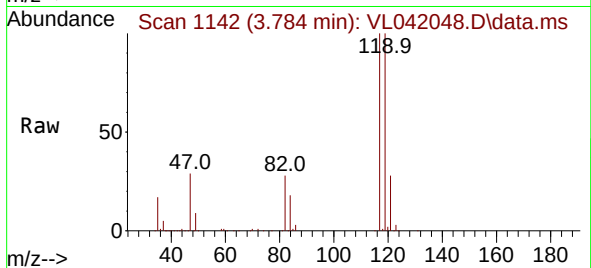
Acq: 25 Feb 2025 13:15

Instrument :

MSVOA_L

ClientSampleId :

ICVVL022525



Tgt Ion:117 Resp: 276599

Ion Ratio Lower Upper

117 100

119 99.7 77.8 116.8

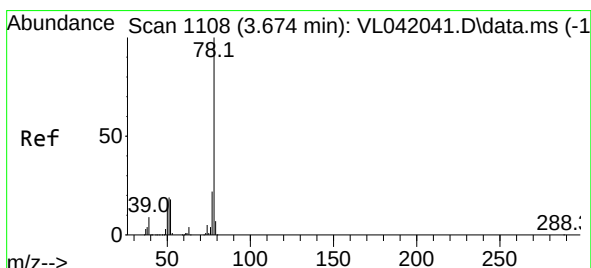
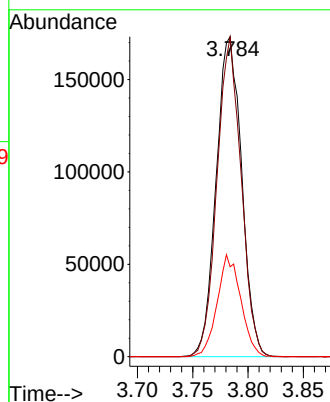
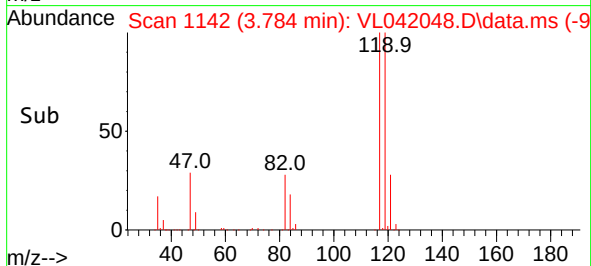
121 28.1 23.4 35.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025

Supervised By :Mahesh Dadoda 02/26/2025



#36

Benzene

Concen: 9.395 ppbv

RT: 3.677 min Scan# 1109

Delta R.T. 0.003 min

Lab File: VL042048.D

Acq: 25 Feb 2025 13:15

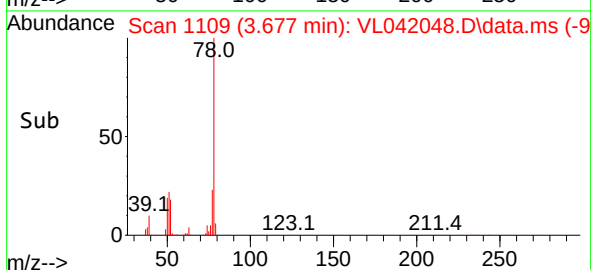
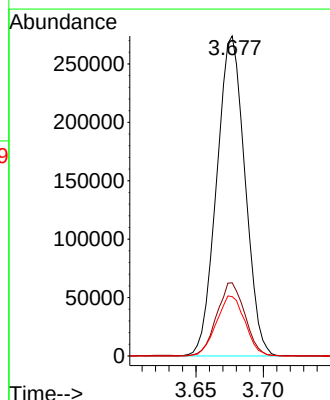
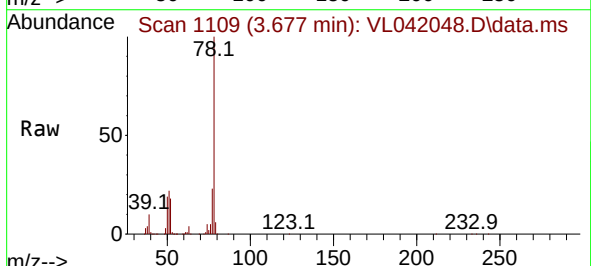
Tgt Ion: 78 Resp: 399804

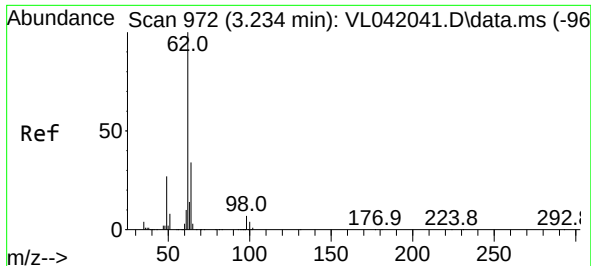
Ion Ratio Lower Upper

78 100

77 22.7 17.7 26.5

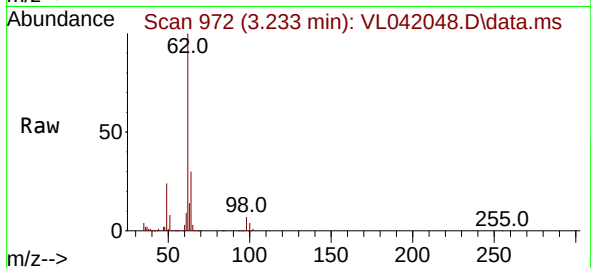
50 18.6 13.9 20.9





#37
1,2-Dichloroethane
Concen: 9.491 ppbv
RT: 3.233 min Scan# 91
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

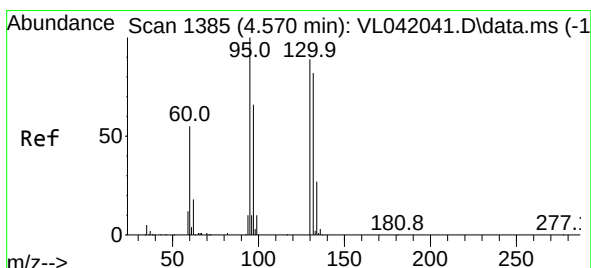
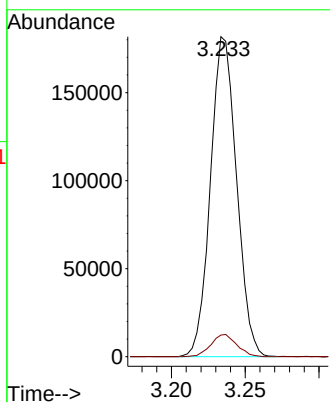
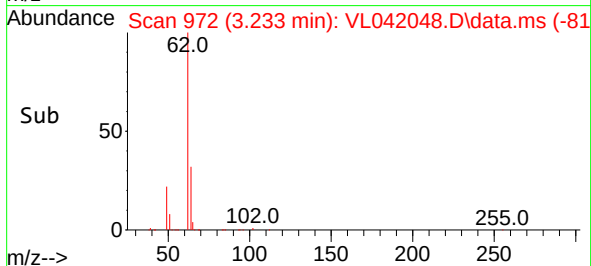
Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525



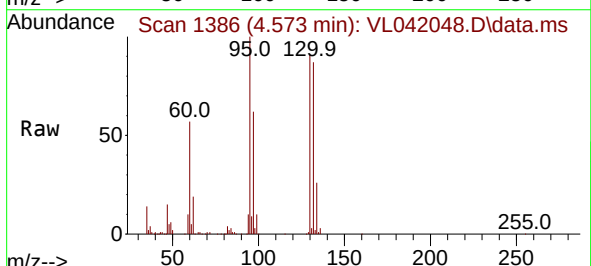
Tgt Ion: 62 Resp: 223940
Ion Ratio Lower Upper
62 100
98 6.9 5.7 8.5

Manual Integrations
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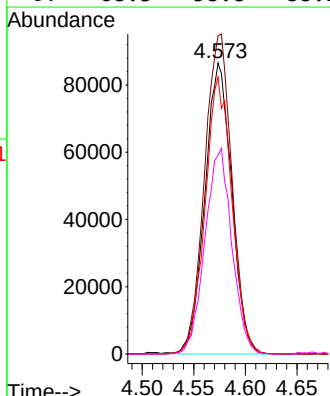
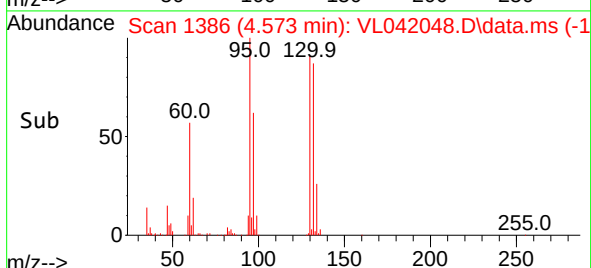
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

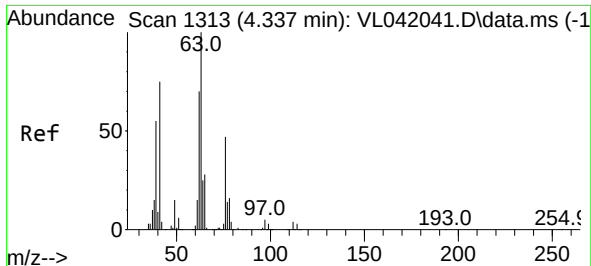


#38
Trichloroethene
Concen: 9.005 ppbv
RT: 4.573 min Scan# 1386
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15



Tgt Ion:130 Resp: 156488
Ion Ratio Lower Upper
130 100
95 109.3 89.5 134.3
132 95.1 73.8 110.6
97 68.3 58.8 88.2





#39

1,2-Dichloropropane

Concen: 9.414 ppbv

RT: 4.340 min Scan# 1313

Delta R.T. 0.003 min

Lab File: VL042048.D

Acq: 25 Feb 2025 13:15

Instrument :

MSVOA_L

ClientSampleId :

ICVVL022525

Tgt Ion: 63 Resp: 15206

Ion Ratio Lower Upper

63 100

41 70.8 60.1 90.1

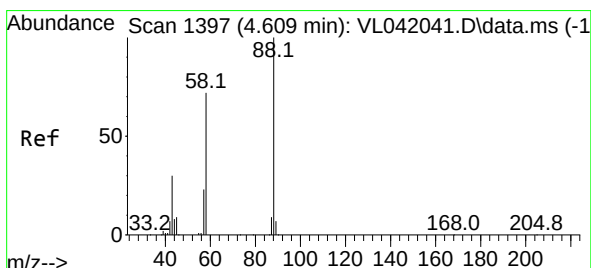
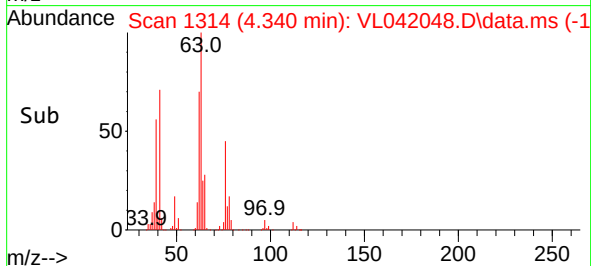
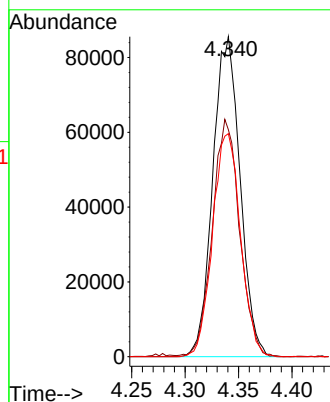
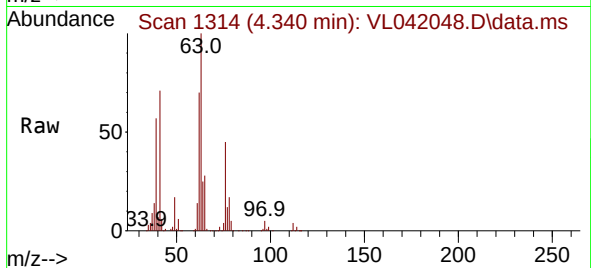
62 69.7 55.8 83.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025

Supervised By :Mahesh Dadoda 02/26/2025



#40

1,4-Dioxane

Concen: 8.817 ppbv

RT: 4.616 min Scan# 1399

Delta R.T. 0.006 min

Lab File: VL042048.D

Acq: 25 Feb 2025 13:15

Tgt Ion: 88 Resp: 65010

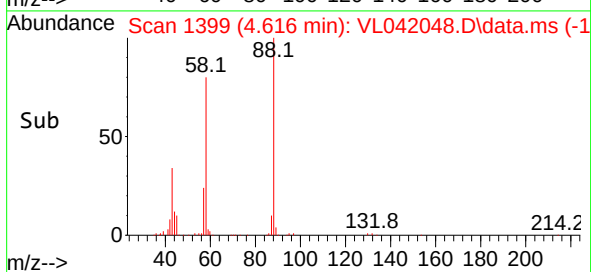
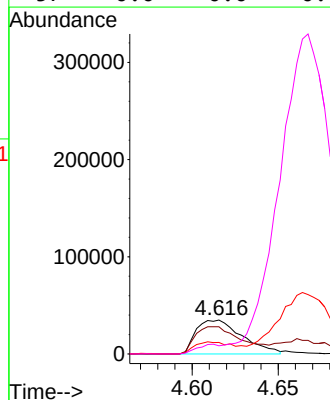
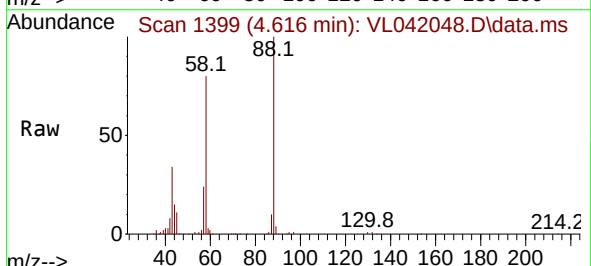
Ion Ratio Lower Upper

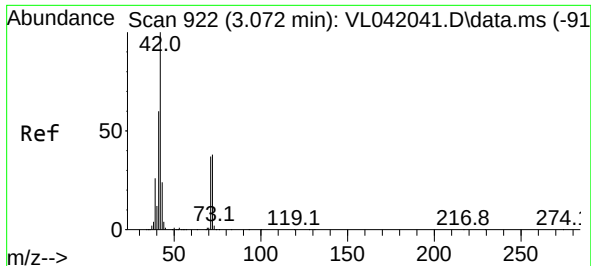
88 100

58 76.5 62.6 94.0

43 0.0 0.0 0.0

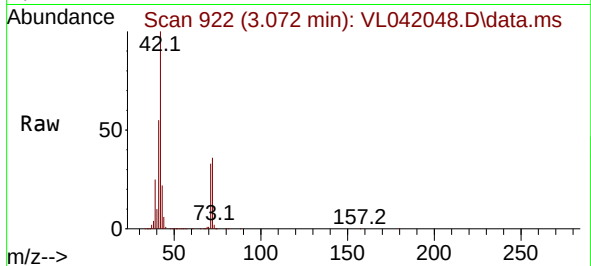
57 0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 9.696 ppbv
RT: 3.072 min Scan# 91
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

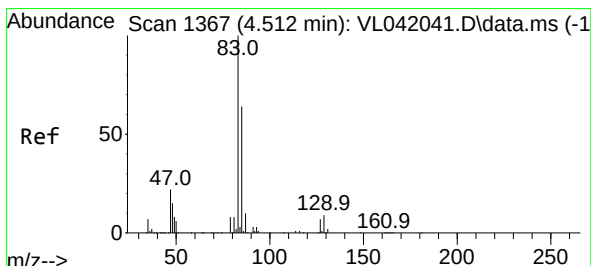
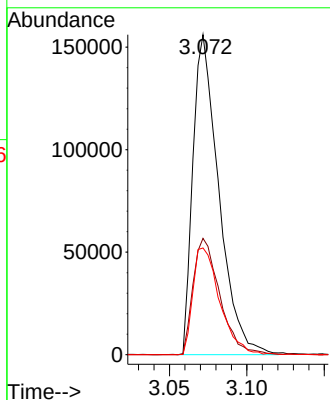
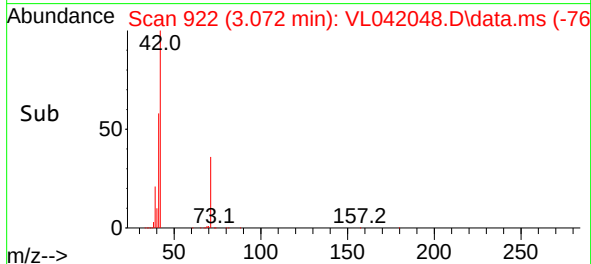
Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525



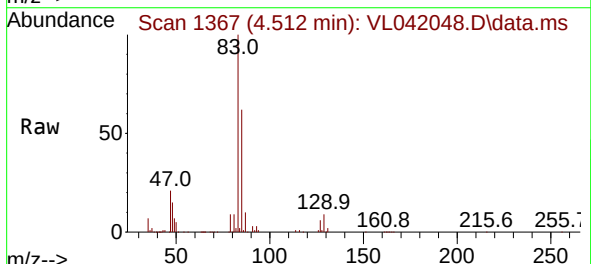
Tgt Ion: 42 Resp: 18145
Ion Ratio Lower Upper
42 100
72 37.6 30.2 45.2
71 34.8 28.2 42.4

Manual Integrations
APPROVED

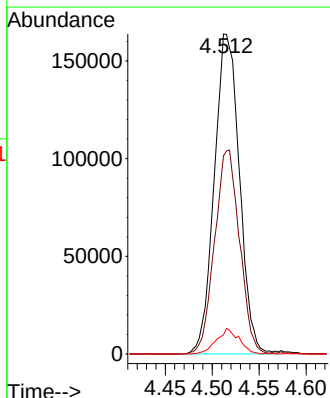
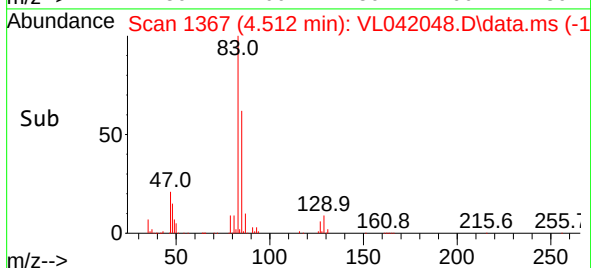
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

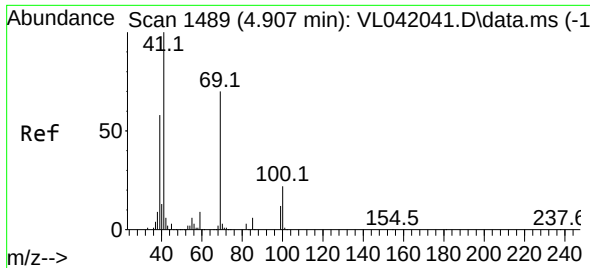


#42
Bromodichloromethane
Concen: 9.606 ppbv
RT: 4.512 min Scan# 1367
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15



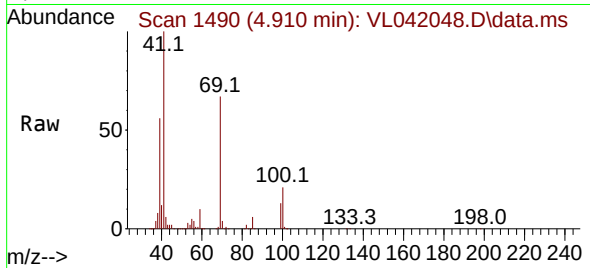
Tgt Ion: 83 Resp: 305385
Ion Ratio Lower Upper
83 100
85 61.9 51.4 77.2
127 5.9 5.8 8.6





#43
Methyl Methacrylate
Concen: 9.685 ppbv
RT: 4.910 min Scan# 1489
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

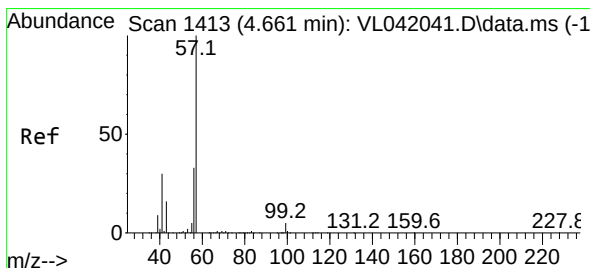
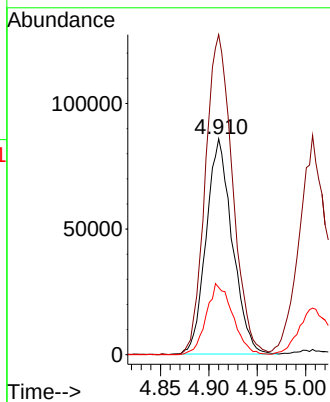
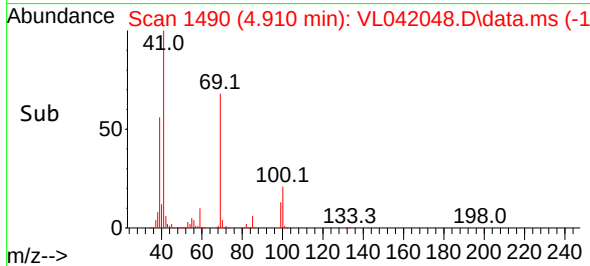
Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525



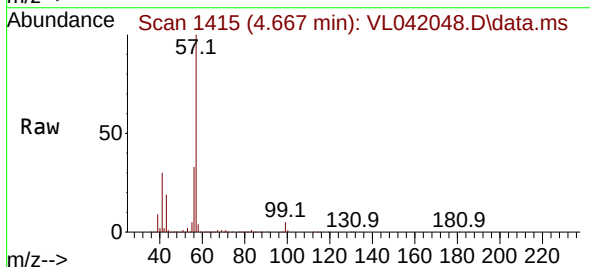
Tgt Ion: 69 Resp: 160954
Ion Ratio Lower Upper
69 100
41 154.7 118.2 177.4
100 33.4 27.0 40.4

Manual Integrations
APPROVED

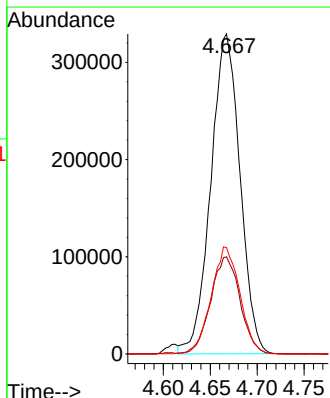
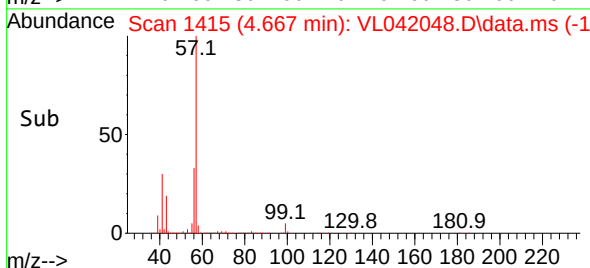
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

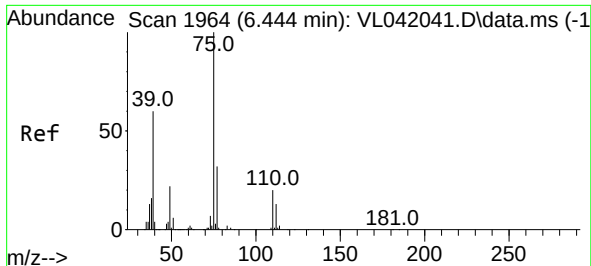


#44
2,2,4-Trimethylpentane
Concen: 9.480 ppbv
RT: 4.667 min Scan# 1415
Delta R.T. 0.006 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15



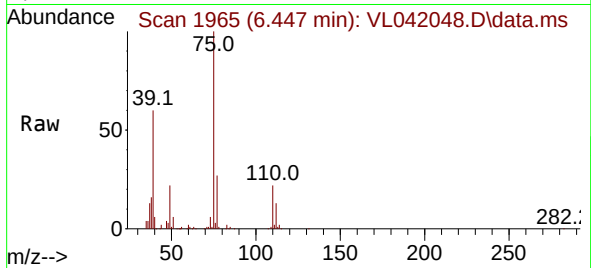
Tgt Ion: 57 Resp: 712051
Ion Ratio Lower Upper
57 100
41 31.0 24.4 36.6
56 32.7 26.5 39.7





#45
 t-1,3-Dichloropropene
 Concen: 9.671 ppbv
 RT: 6.447 min Scan# 1964
 Delta R.T. 0.003 min
 Lab File: VL042048.D
 Acq: 25 Feb 2025 13:15

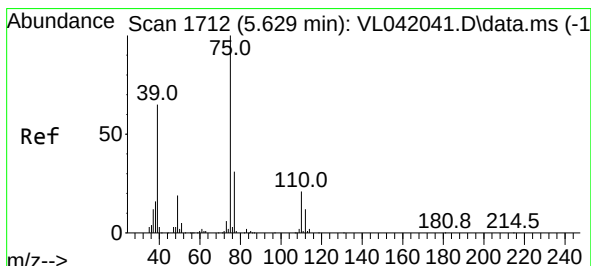
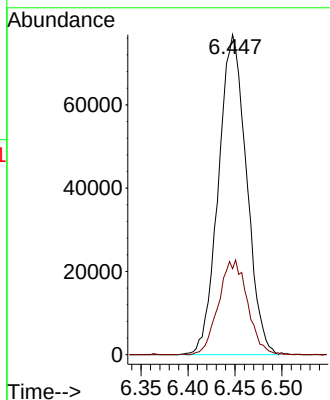
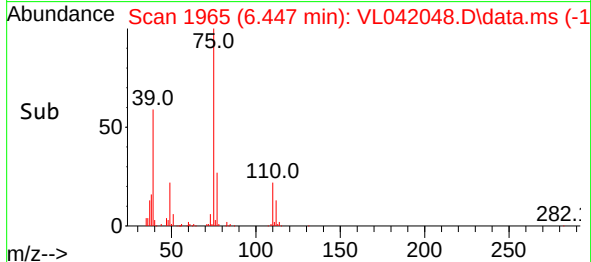
Instrument : MSVOA_L
 ClientSampleId : ICVVL022525



Tgt Ion: 75 Resp: 159680
 Ion Ratio Lower Upper
 75 100
 77 26.8 25.9 38.9

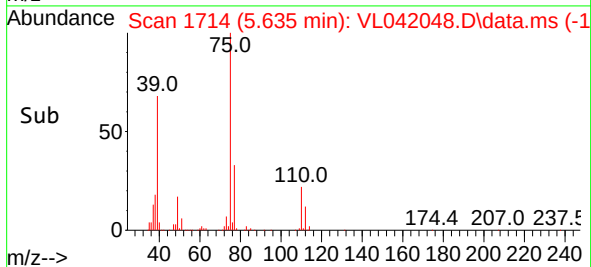
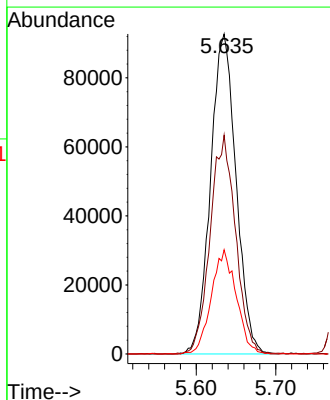
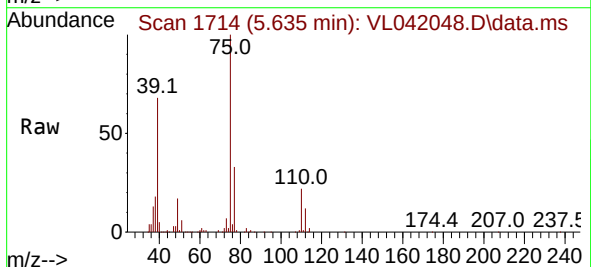
Manual Integrations
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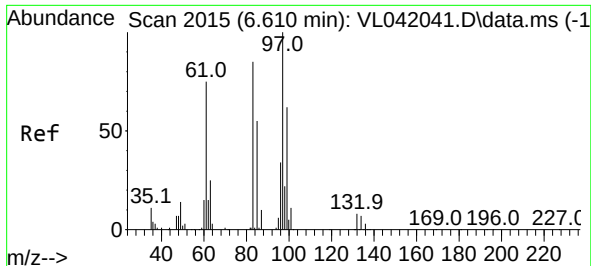
Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025



#46
 cis-1,3-Dichloropropene
 Concen: 9.680 ppbv
 RT: 5.635 min Scan# 1714
 Delta R.T. 0.006 min
 Lab File: VL042048.D
 Acq: 25 Feb 2025 13:15

Tgt Ion: 75 Resp: 206836
 Ion Ratio Lower Upper
 75 100
 39 68.1 51.9 77.9
 77 32.6 24.9 37.3





#47

1,1,2-Trichloroethane

Concen: 9.039 ppbv

RT: 6.613 min Scan# 2015

Delta R.T. 0.003 min

Lab File: VL042048.D

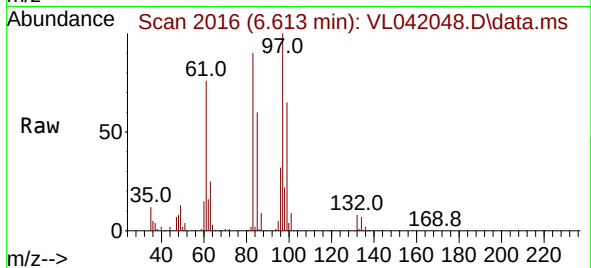
Acq: 25 Feb 2025 13:15

Instrument :

MSVOA_L

ClientSampleId :

ICVVL022525



Tgt Ion: 97 Resp: 148220

Ion Ratio Lower Upper

97 100

83 89.8 68.1 102.1

85 59.5 44.0 66.0

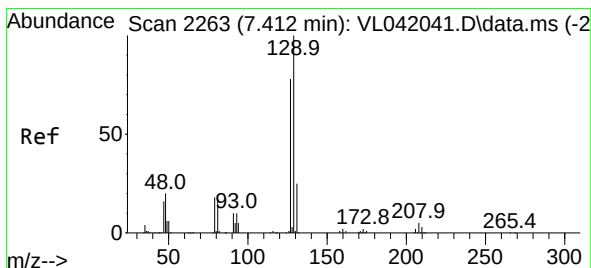
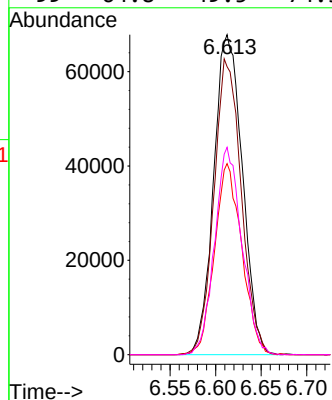
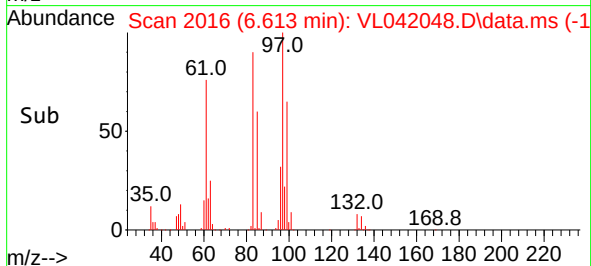
99 64.8 49.5 74.3

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Reviewed By :Semsettin Yesilyurt 02/26/2025

Supervised By :Mahesh Dadoda 02/26/2025



#48

Dibromochloromethane

Concen: 9.407 ppbv

RT: 7.412 min Scan# 2263

Delta R.T. -0.000 min

Lab File: VL042048.D

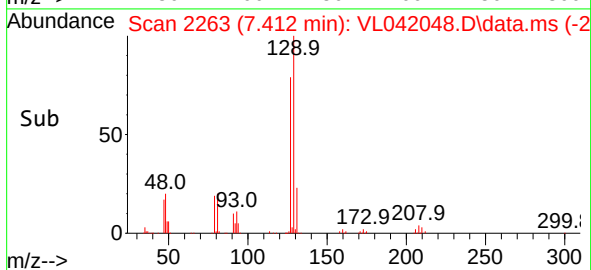
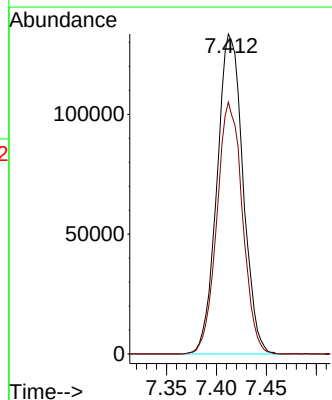
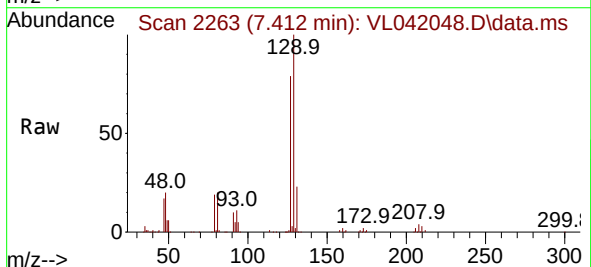
Acq: 25 Feb 2025 13:15

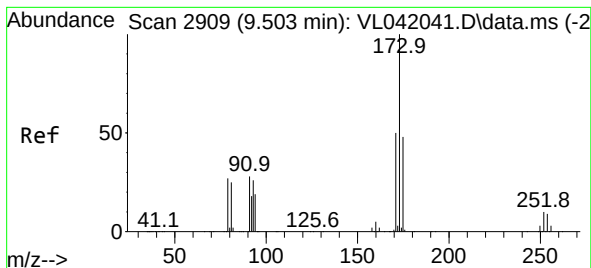
Tgt Ion:129 Resp: 241593

Ion Ratio Lower Upper

129 100

127 77.4 38.6 115.8





#49

Bromoform

Concen: 9.432 ppbv

RT: 9.503 min Scan# 2909

Delta R.T. -0.000 min

Lab File: VL042048.D

Acq: 25 Feb 2025 13:15

Instrument :

MSVOA_L

ClientSampleId :

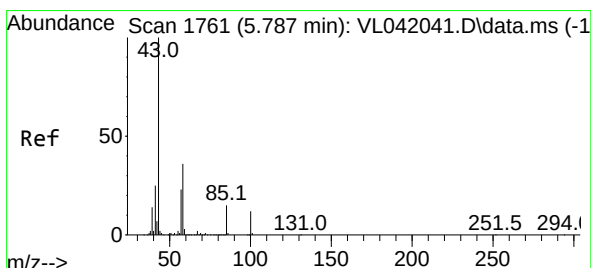
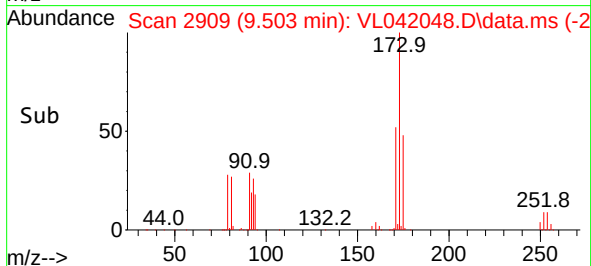
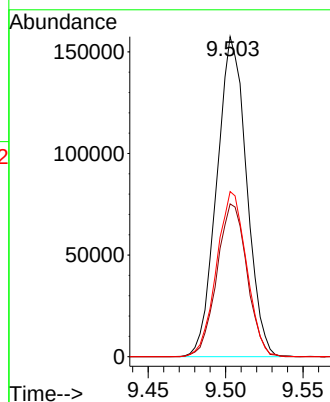
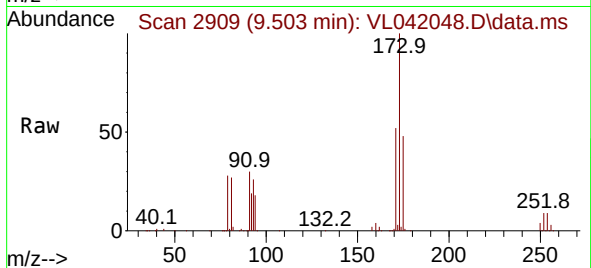
ICVVL022525

Tgt Ion:173 Resp: 210370
 Ion Ratio Lower Upper
 173 100
 175 48.2 38.3 57.5
 171 52.0 40.2 60.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025



#50

4-Methyl-2-Pentanone

Concen: 10.526 ppbv

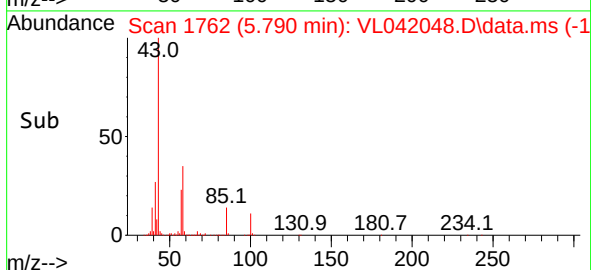
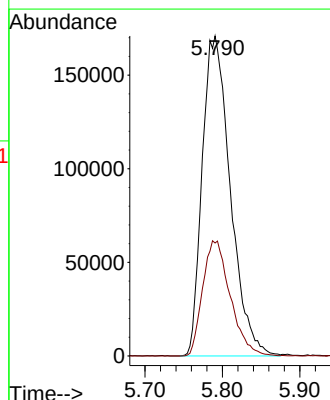
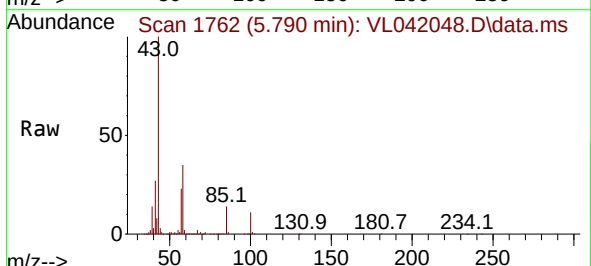
RT: 5.790 min Scan# 1762

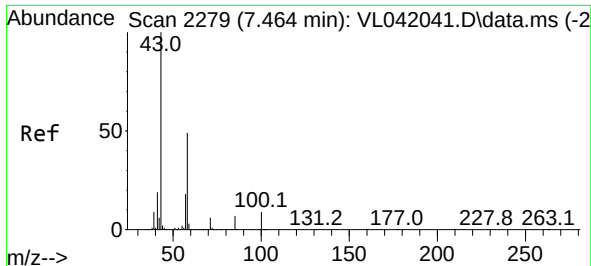
Delta R.T. 0.003 min

Lab File: VL042048.D

Acq: 25 Feb 2025 13:15

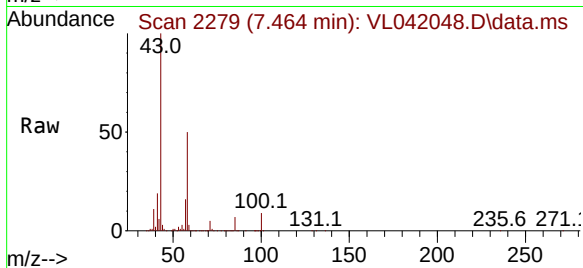
Tgt Ion: 43 Resp: 431123
 Ion Ratio Lower Upper
 43 100
 58 35.4 29.3 43.9





#51
2-Hexanone
Concen: 12.576 ppbv
RT: 7.464 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

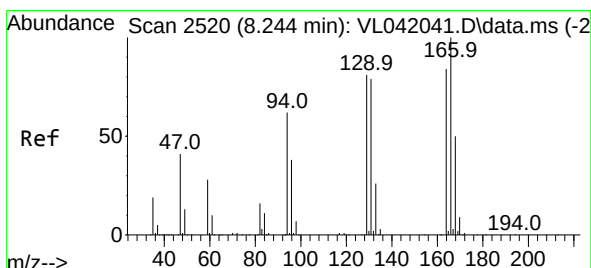
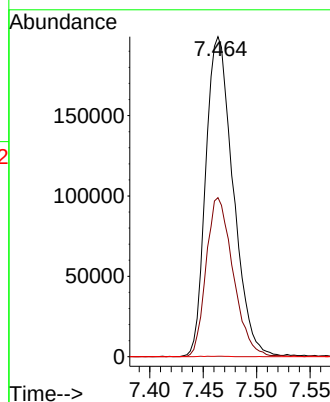
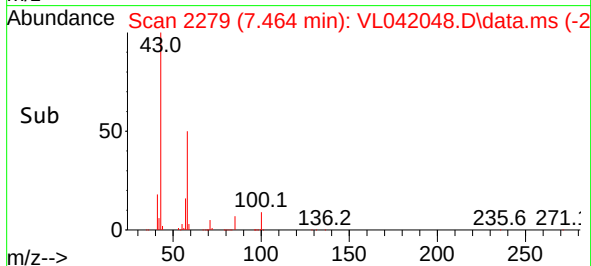
Instrument : MSVOA_L
ClientSampleId : ICVVL022525



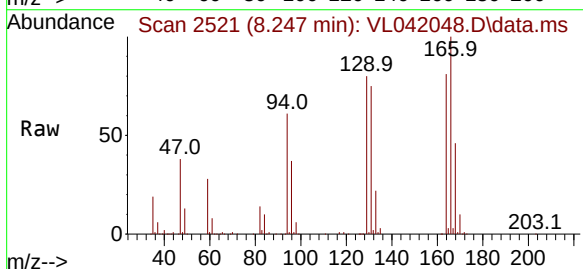
Tgt Ion: 43 Resp: 35451
Ion Ratio Lower Upper
43 100
58 49.1 39.0 58.6
98 0.1 0.1 0.1

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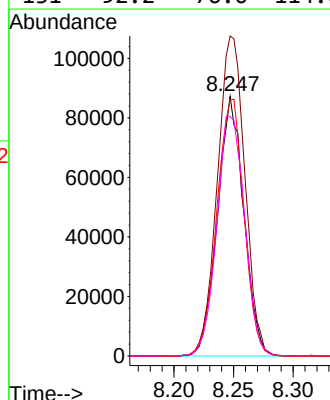
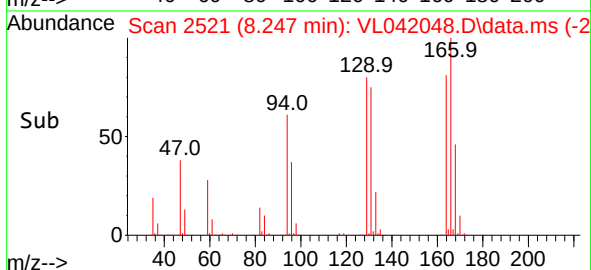
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

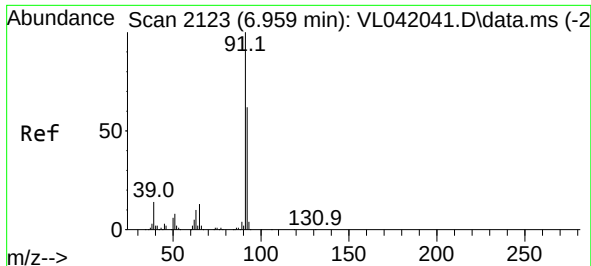


#52
Tetrachloroethene
Concen: 9.202 ppbv
RT: 8.247 min Scan# 2521
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15



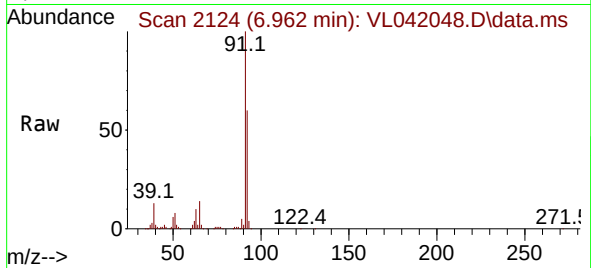
Tgt Ion:164 Resp: 134062
Ion Ratio Lower Upper
164 100
166 123.3 95.7 143.5
129 98.7 77.1 115.7
131 92.2 76.0 114.0





#53
Toluene
Concen: 9.430 ppbv
RT: 6.962 min Scan# 2123
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

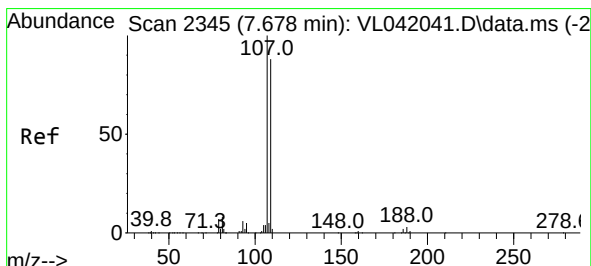
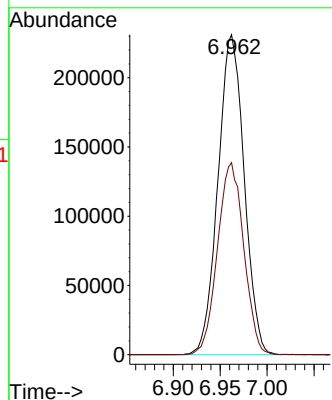
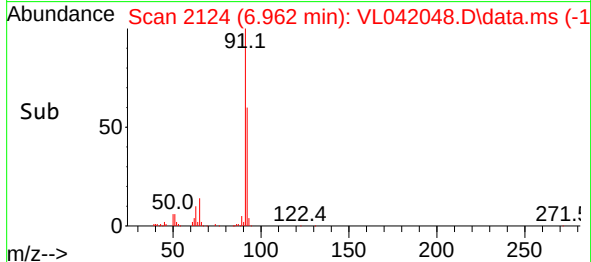
Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525



Tgt Ion: 91 Resp: 44849
Ion Ratio Lower Upper
91 100
92 60.1 49.0 73.6

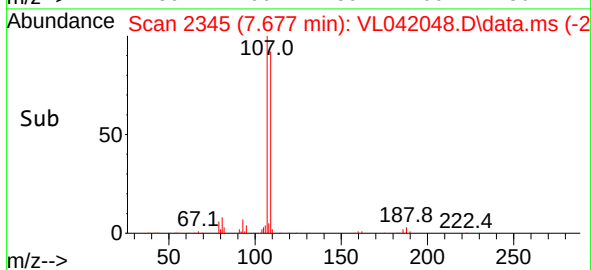
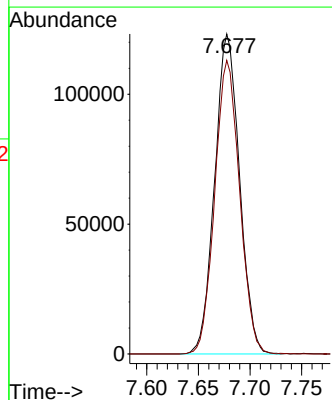
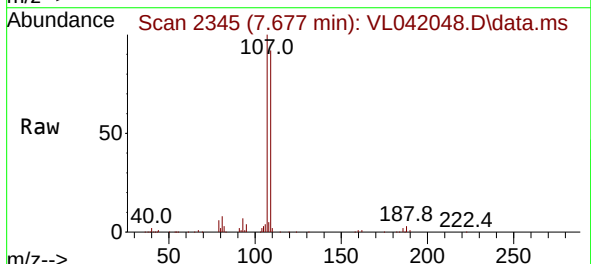
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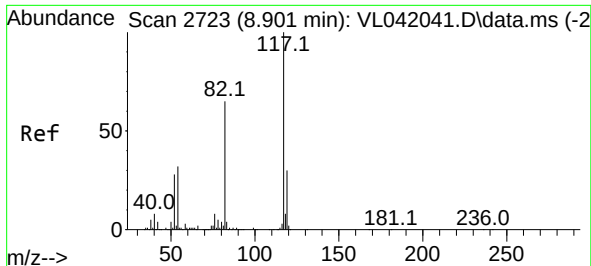
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#54
1,2-Dibromoethane
Concen: 9.307 ppbv
RT: 7.677 min Scan# 2345
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

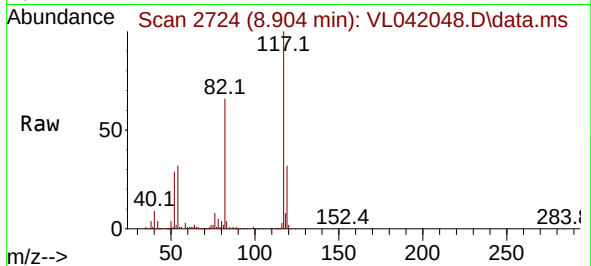
Tgt Ion:107 Resp: 206335
Ion Ratio Lower Upper
107 100
109 91.7 70.2 105.4





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.904 min Scan# 2723
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

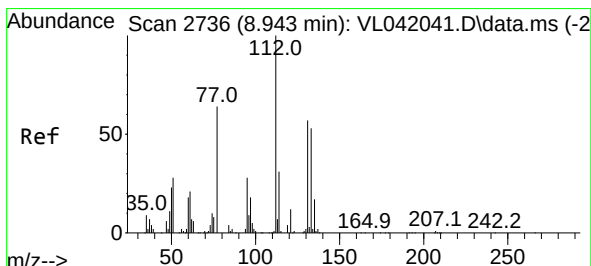
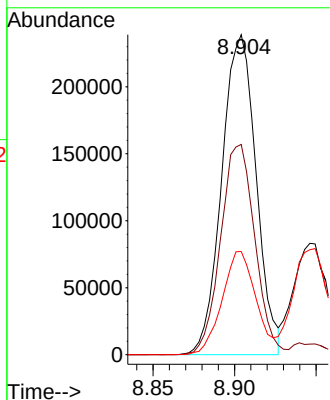
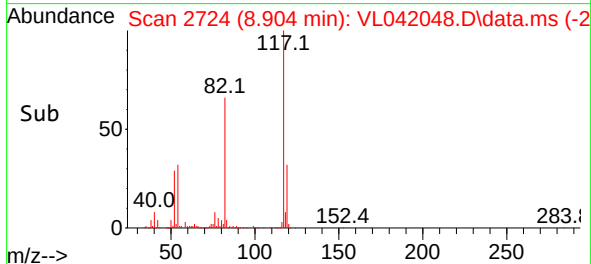
Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525



Tgt Ion:117 Resp: 350262
Ion Ratio Lower Upper
117 100
82 68.9 55.0 82.6
119 31.5 25.9 38.9

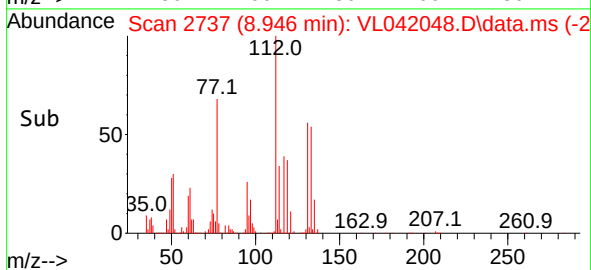
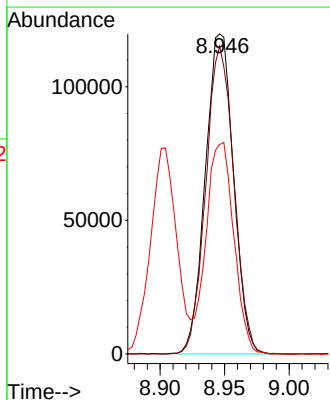
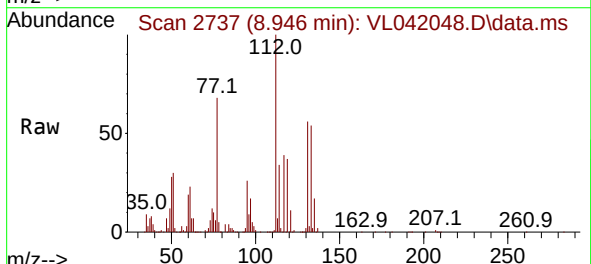
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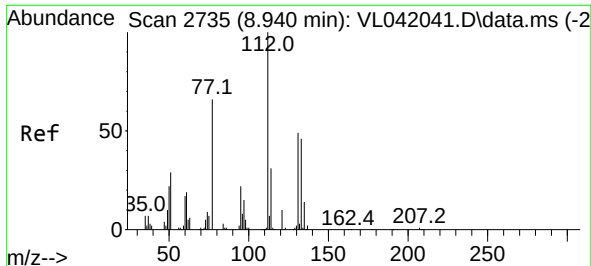
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#56
1,1,1,2-Tetrachloroethane
Concen: 9.234 ppbv
RT: 8.946 min Scan# 2737
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

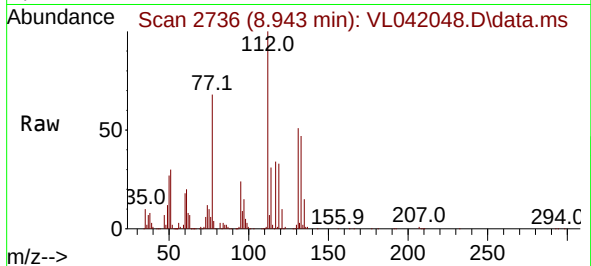
Tgt Ion:131 Resp: 182800
Ion Ratio Lower Upper
131 100
133 95.0 75.8 113.8
119 66.4 52.1 78.1





#57
Chlorobenzene
Concen: 9.216 ppbv
RT: 8.943 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

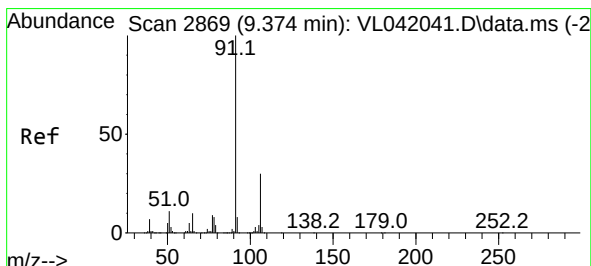
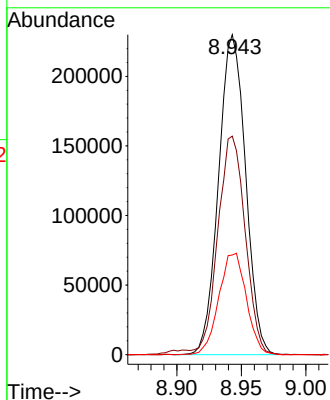
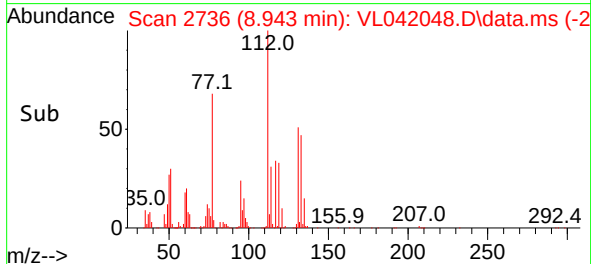
Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525



Tgt Ion: 112 Resp: 334690
Ion Ratio Lower Upper
112 100
77 68.0 53.4 80.2
114 31.1 28.3 34.5

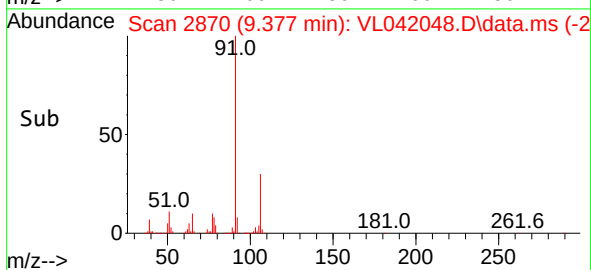
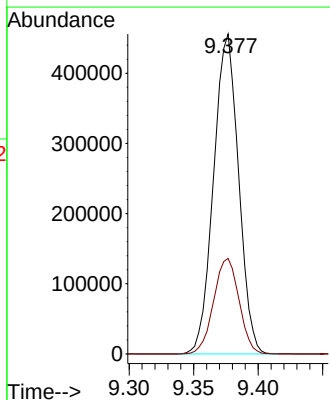
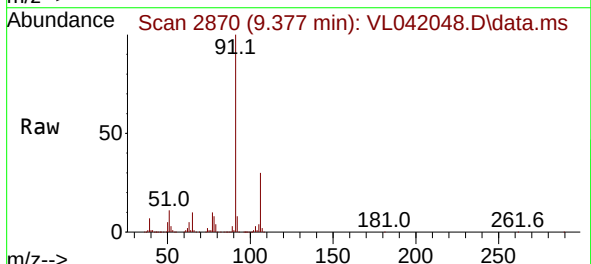
Manual Integrations
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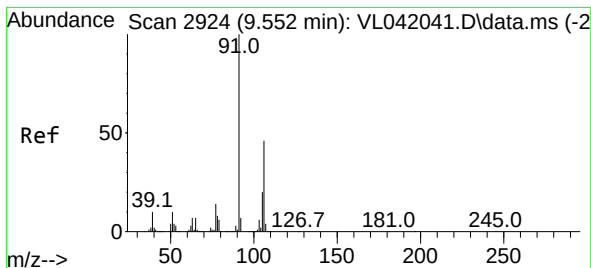
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#58
Ethyl Benzene
Concen: 9.513 ppbv
RT: 9.377 min Scan# 2870
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 91 Resp: 613622
Ion Ratio Lower Upper
91 100
106 29.9 24.2 36.2





#59

m/p-Xylene

Concen: 19.041 ppbv m

RT: 9.571 min Scan# 29

Delta R.T. 0.019 min

Lab File: VL042048.D

Acq: 25 Feb 2025 13:15

Instrument :

MSVOA_L

ClientSampleId :

ICVVL022525

Tgt Ion: 91 Resp: 977425

Ion Ratio Lower Upper

91 100

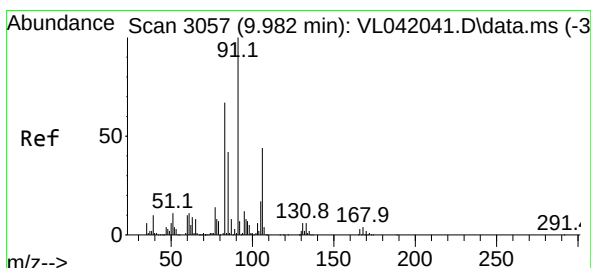
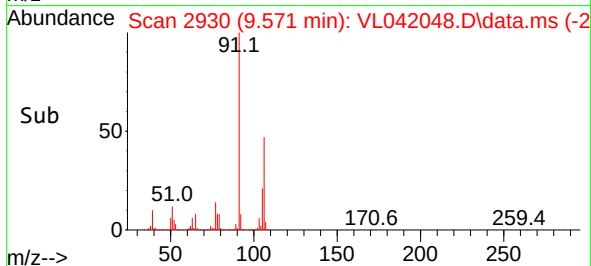
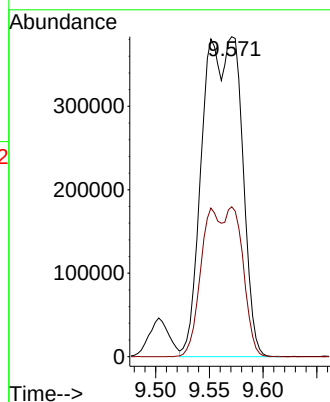
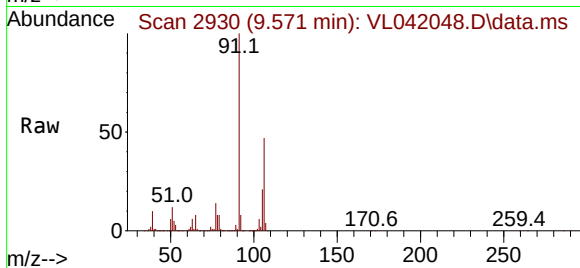
106 0.0 0.0 0.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 02/26/2025

Supervised By :Mahesh Dadoda 02/26/2025



#60

o-Xylene

Concen: 9.334 ppbv

RT: 9.985 min Scan# 3058

Delta R.T. 0.003 min

Lab File: VL042048.D

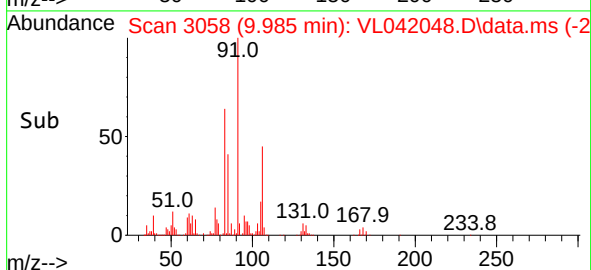
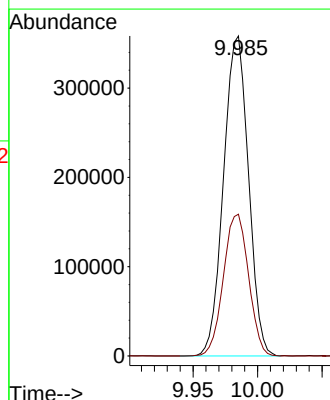
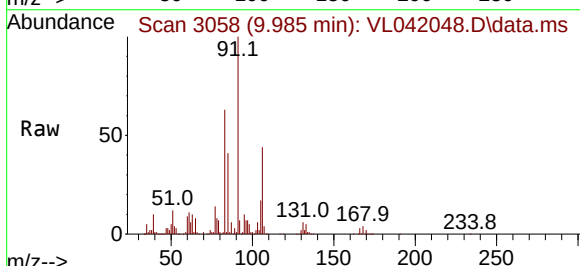
Acq: 25 Feb 2025 13:15

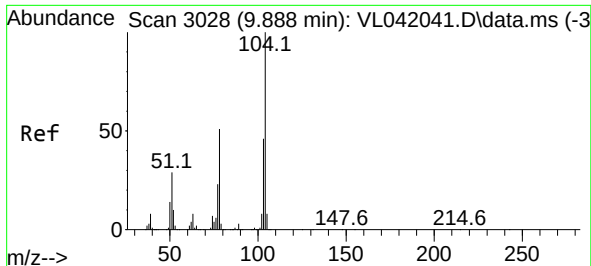
Tgt Ion: 91 Resp: 481683

Ion Ratio Lower Upper

91 100

106 44.7 22.3 66.8





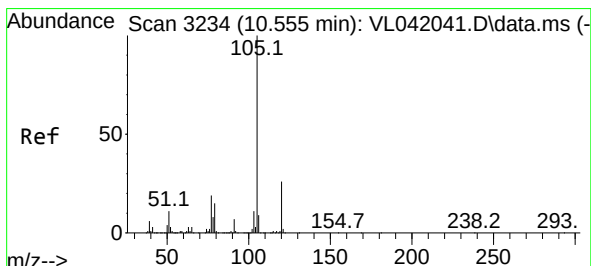
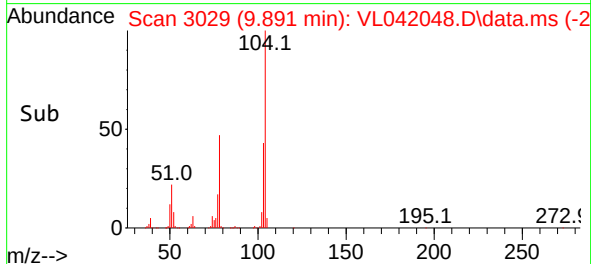
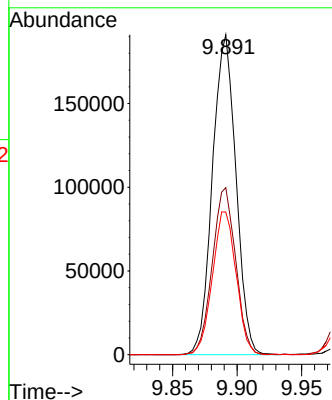
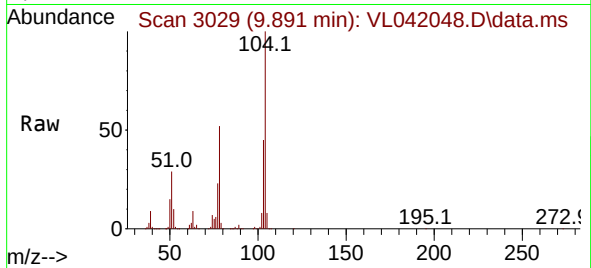
#61
Styrene
Concen: 9.959 ppbv
RT: 9.891 min Scan# 3029
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Instrument : MSVOA_L
ClientSampleId : ICVVL022525

Tgt Ion:104 Resp: 241617
Ion Ratio Lower Upper
104 100
78 51.9 41.0 61.4
103 45.3 37.0 55.6

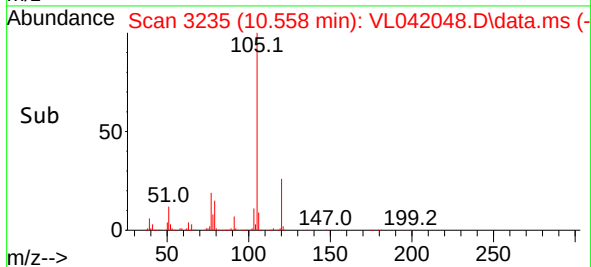
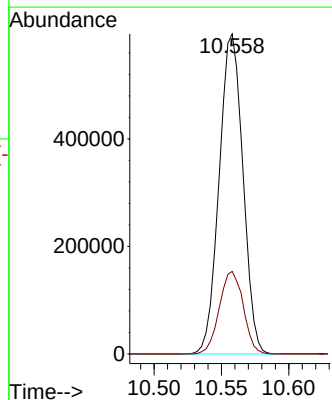
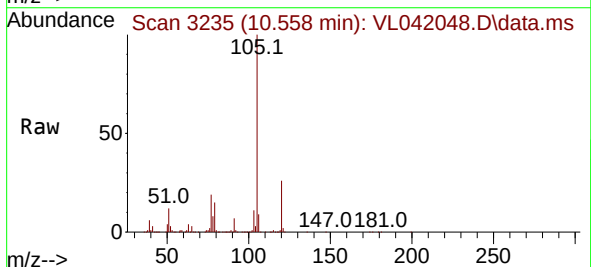
Manual Integrations
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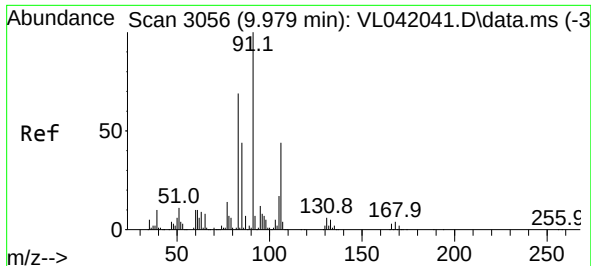
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#62
Isopropylbenzene
Concen: 9.437 ppbv
RT: 10.558 min Scan# 3235
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

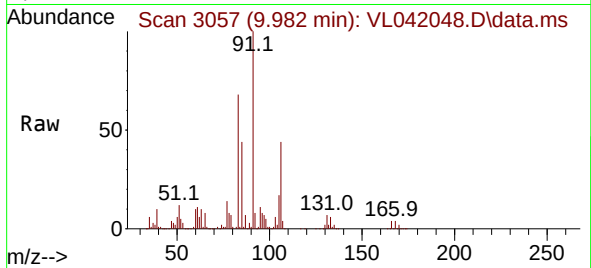
Tgt Ion:105 Resp: 729350
Ion Ratio Lower Upper
105 100
120 26.0 20.7 31.1





#63
1,1,2,2-Tetrachloroethane
Concen: 9.204 ppbv
RT: 9.982 min Scan# 3056
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

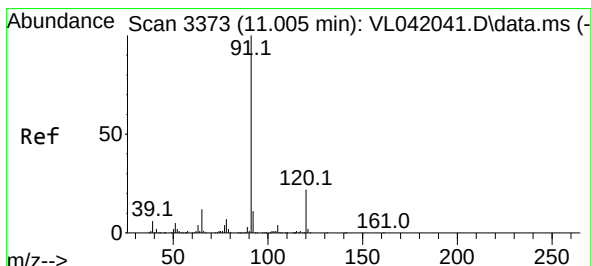
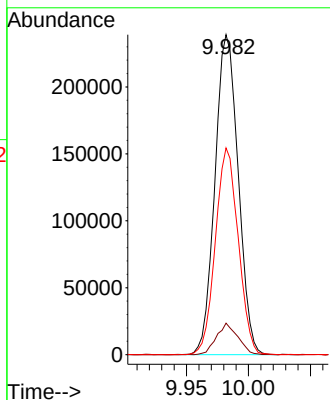
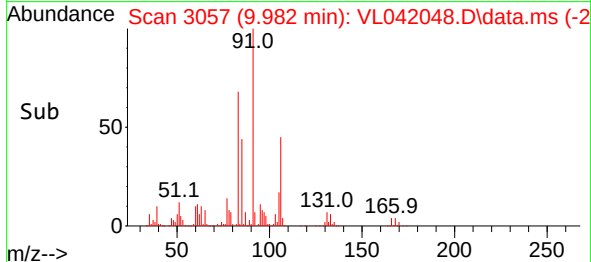
Instrument : MSVOA_L
ClientSampleId : ICVVL022525



Tgt Ion: 83 Resp: 312794
Ion Ratio Lower Upper
83 100
131 9.0 4.5 13.7
85 63.5 32.1 96.3

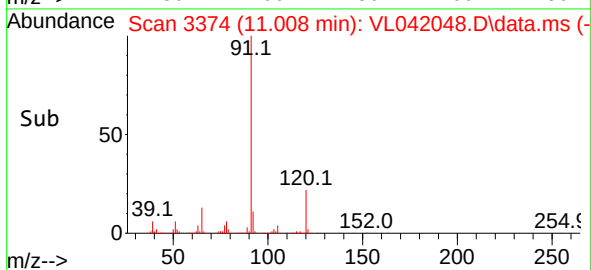
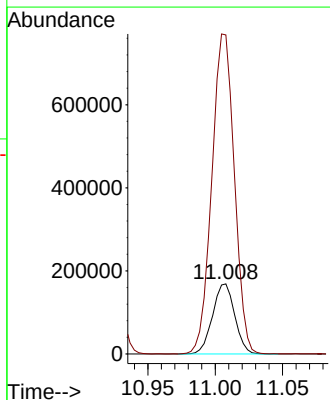
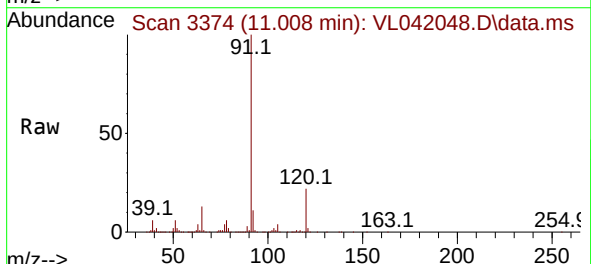
Manual Integrations
APPROVED

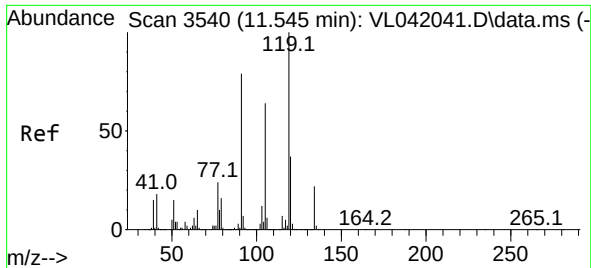
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#64
n-propylbenzene
Concen: 9.506 ppbv
RT: 11.008 min Scan# 3374
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

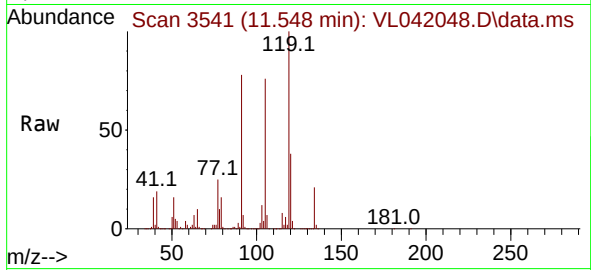
Tgt Ion:120 Resp: 192704
Ion Ratio Lower Upper
120 100
91 466.1 370.6 556.0





#65
tert-Butylbenzene
Concen: 8.988 ppbv
RT: 11.548 min Scan# 3541
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

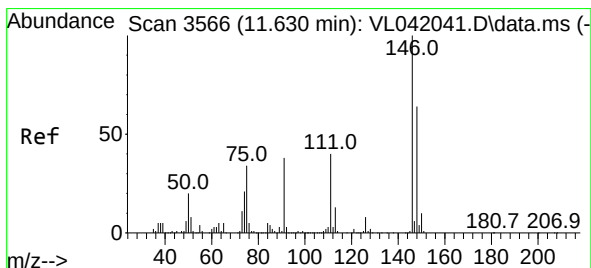
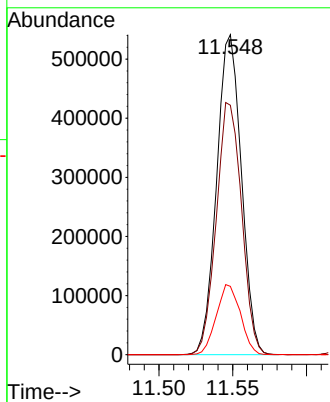
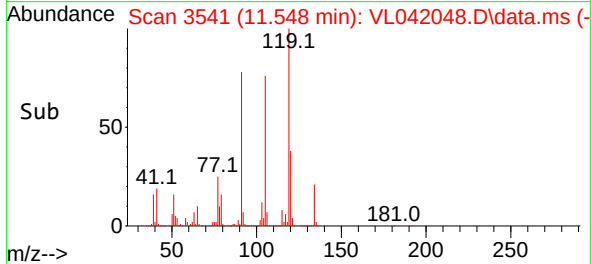
Instrument : MSVOA_L
ClientSampleId : ICVVL022525



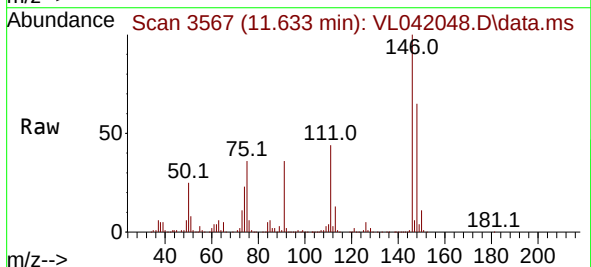
Tgt Ion: 119 Resp: 63220
Ion Ratio Lower Upper
119 100
91 80.5 64.2 96.2
134 21.4 17.4 26.2

Manual Integrations
APPROVED

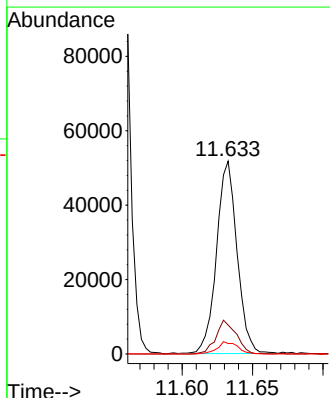
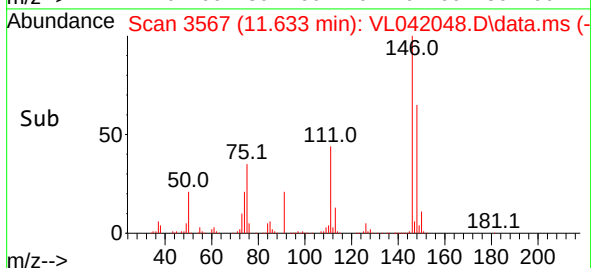
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

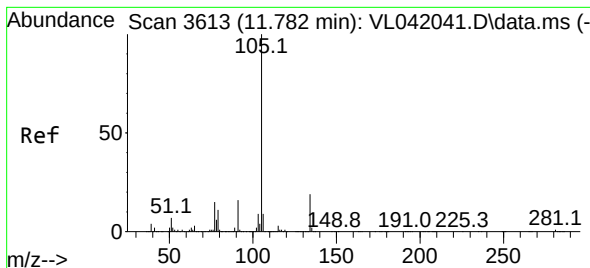


#66
Benzyl Chloride
Concen: 9.808 ppbv
RT: 11.633 min Scan# 3567
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15



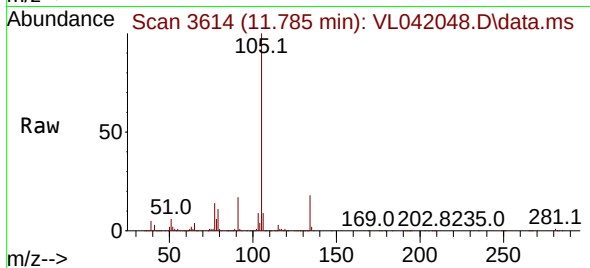
Tgt Ion: 91 Resp: 52645
Ion Ratio Lower Upper
91 100
126 17.4 14.5 21.7
128 6.2 5.4 8.2





#67
 sec-Butylbenzene
 Concen: 9.090 ppbv
 RT: 11.785 min Scan# 3613
 Delta R.T. 0.003 min
 Lab File: VL042048.D
 Acq: 25 Feb 2025 13:15

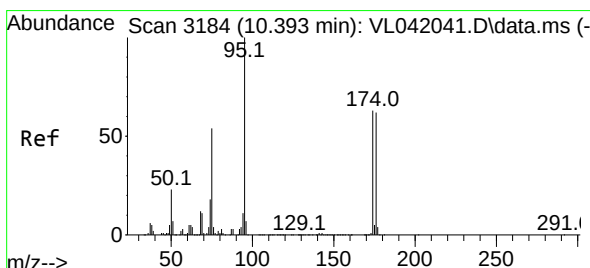
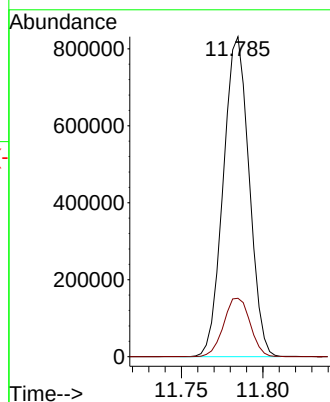
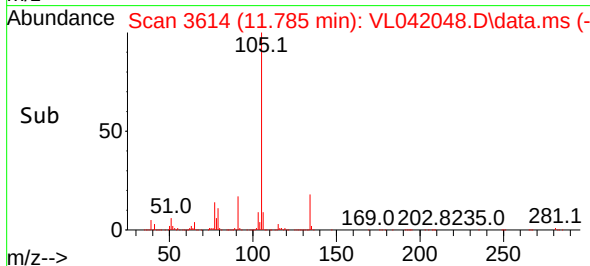
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL022525



Tgt Ion: 105 Resp: 91440
 Ion Ratio Lower Upper
 105 100
 134 18.9 14.9 22.3

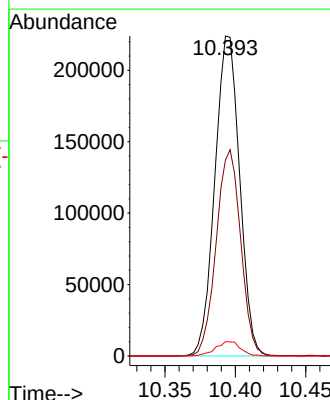
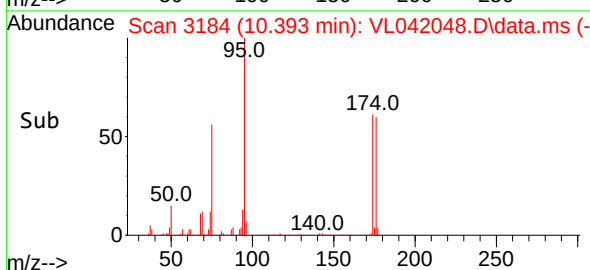
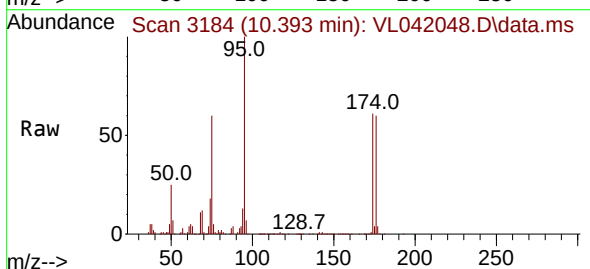
Manual Integrations
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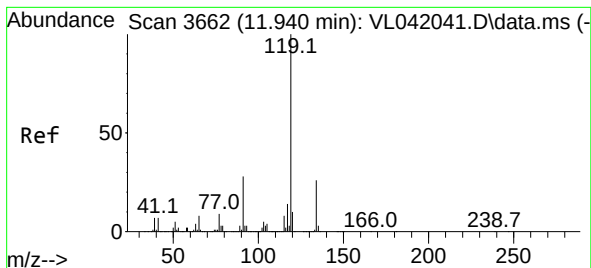
Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.188 ppbv
 RT: 10.393 min Scan# 3184
 Delta R.T. -0.000 min
 Lab File: VL042048.D
 Acq: 25 Feb 2025 13:15

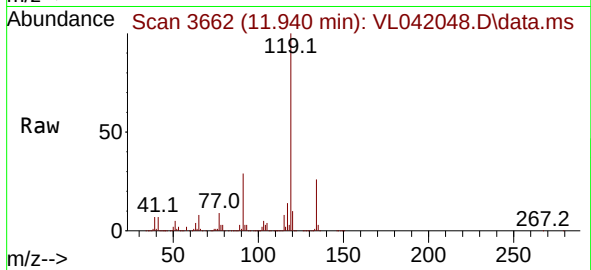
Tgt Ion: 95 Resp: 274527
 Ion Ratio Lower Upper
 95 100
 174 63.6 51.8 77.6
 175 4.5 3.9 5.9





#69
p-Isopropyltoluene
Concen: 9.418 ppbv
RT: 11.940 min Scan# 3662
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

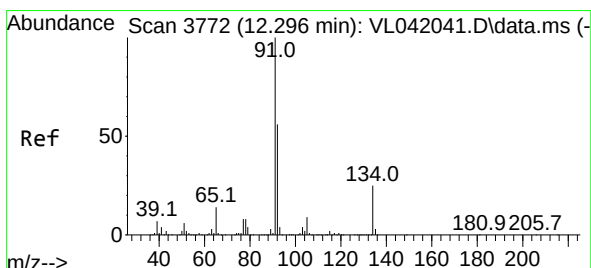
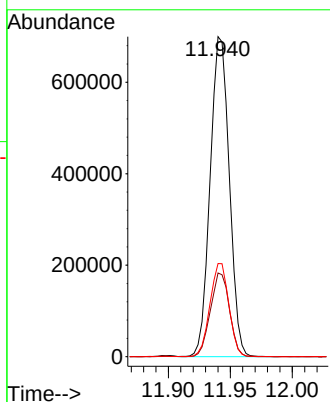
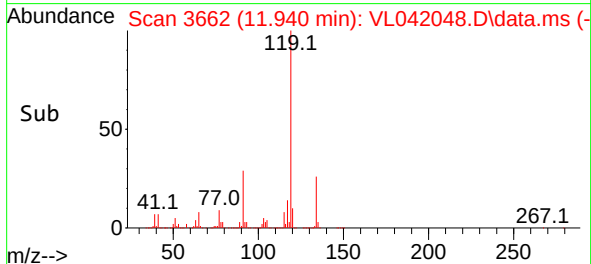
Instrument : MSVOA_L
ClientSampleId : ICVVL022525



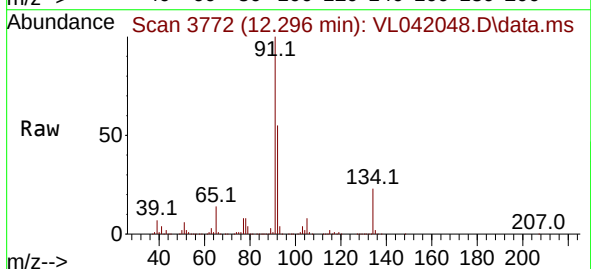
Tgt Ion: 119 Resp: 75376
Ion Ratio Lower Upper
119 100
134 26.1 20.9 31.3
91 28.9 23.1 34.7

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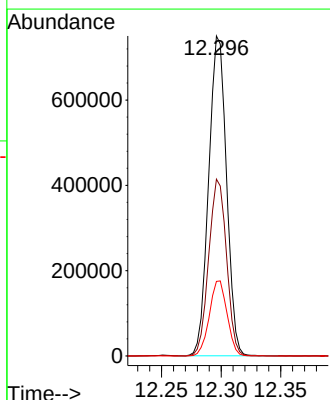
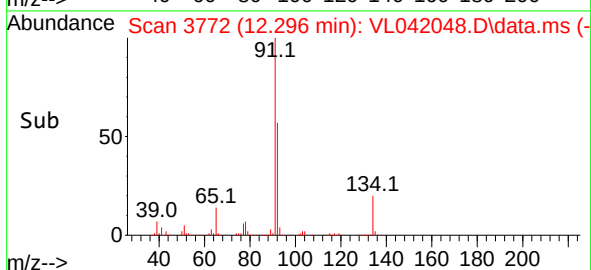
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

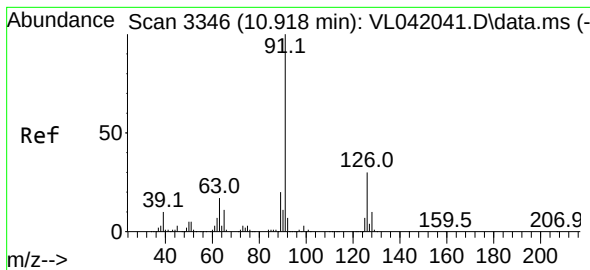


#70
n-Butylbenzene
Concen: 9.560 ppbv
RT: 12.296 min Scan# 3772
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15



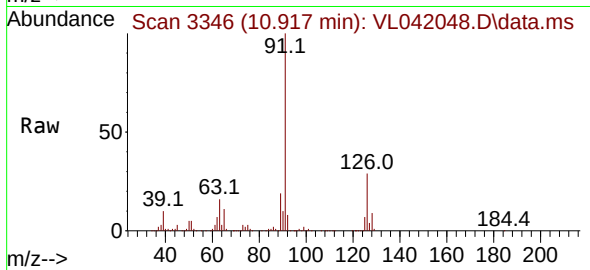
Tgt Ion: 91 Resp: 781034
Ion Ratio Lower Upper
91 100
92 55.4 44.7 67.1
134 23.4 18.9 28.3





#71
2-Chlorotoluene
Concen: 9.399 ppbv
RT: 10.917 min Scan# 31
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

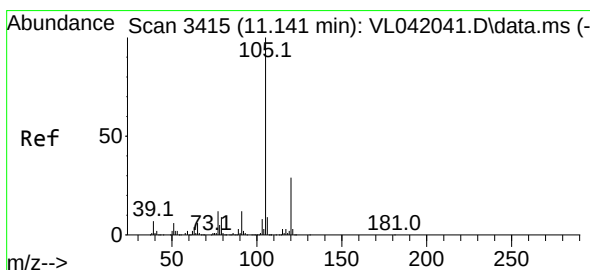
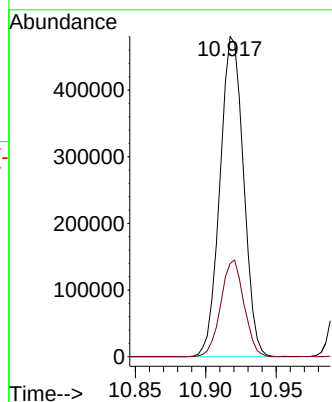
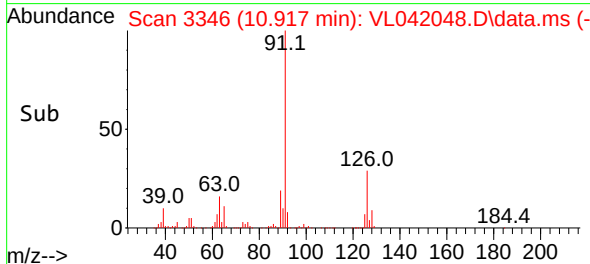
Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525



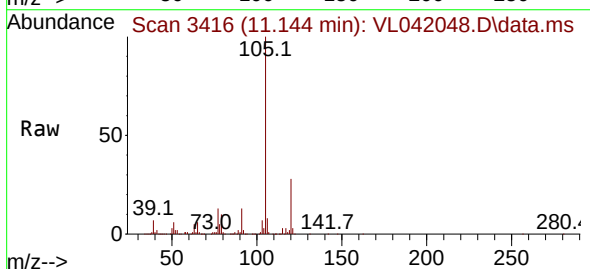
Tgt Ion: 91 Resp: 55999
Ion Ratio Lower Upper
91 100
126 29.6 11.9 47.5

Manual Integrations
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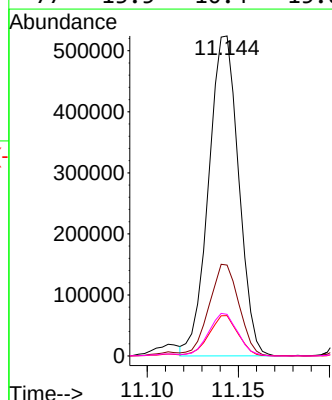
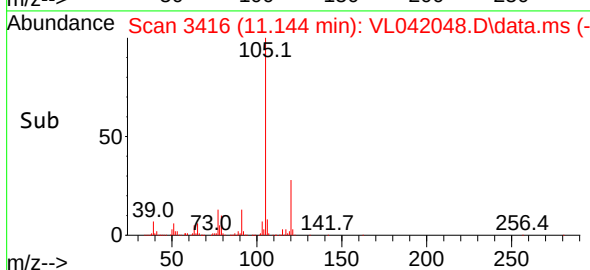
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

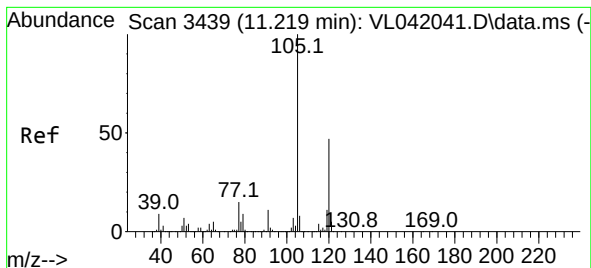


#72
4-Ethyltoluene
Concen: 9.557 ppbv
RT: 11.144 min Scan# 3416
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15



Tgt Ion:105 Resp: 602156
Ion Ratio Lower Upper
105 100
120 29.5 24.1 36.1
91 12.7 10.2 15.4
77 13.5 10.4 15.6





#73

1,3,5-Trimethylbenzene

Concen: 9.248 ppbv

RT: 11.222 min Scan# 3439

Delta R.T. 0.003 min

Lab File: VL042048.D

Acq: 25 Feb 2025 13:15

Instrument :

MSVOA_L

ClientSampleId :

ICVVL022525

Tgt Ion:105 Resp: 50545

Ion Ratio Lower Upper

105 100

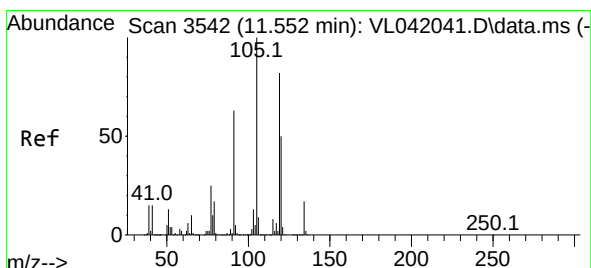
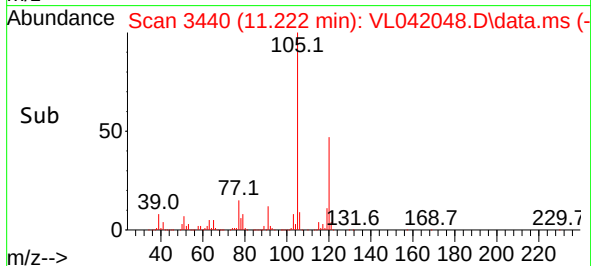
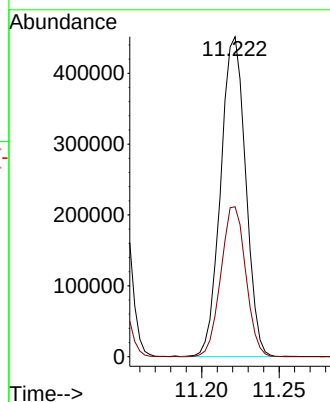
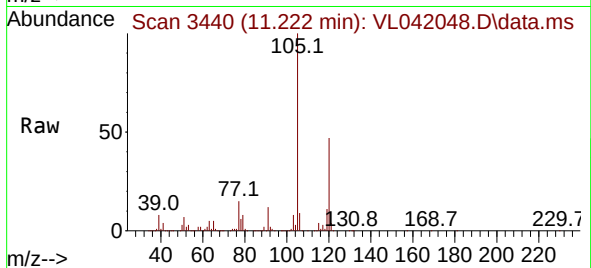
120 46.9 37.4 56.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 02/26/2025

Supervised By :Mahesh Dadoda 02/26/2025



#74

1,2,4-Trimethylbenzene

Concen: 8.891 ppbv

RT: 11.555 min Scan# 3543

Delta R.T. 0.003 min

Lab File: VL042048.D

Acq: 25 Feb 2025 13:15

Tgt Ion:105 Resp: 547176

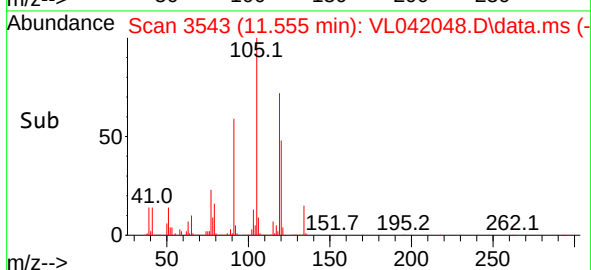
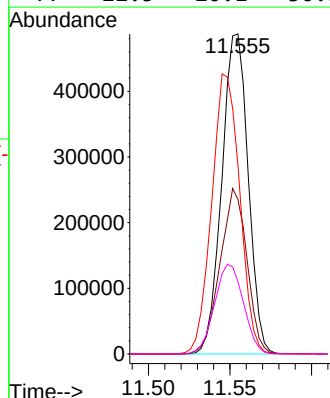
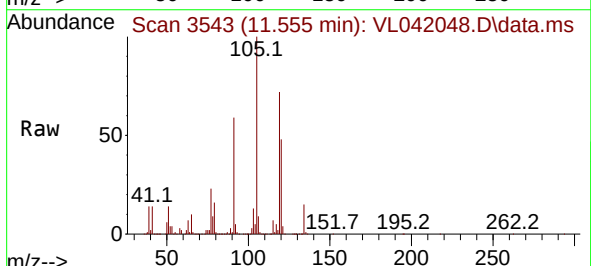
Ion Ratio Lower Upper

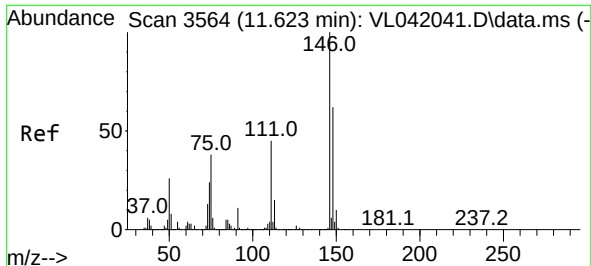
105 100

120 48.2 40.2 60.2

91 58.9 51.4 77.2

77 22.5 20.1 30.1





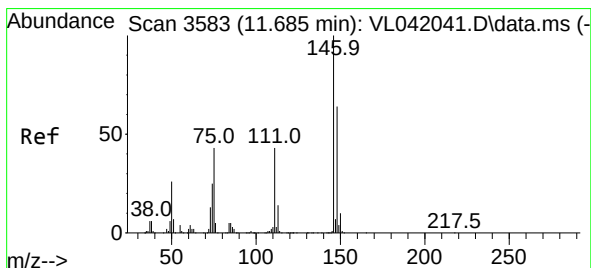
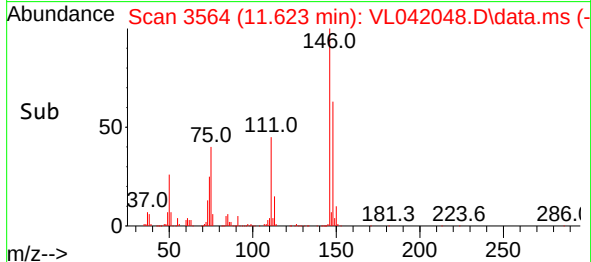
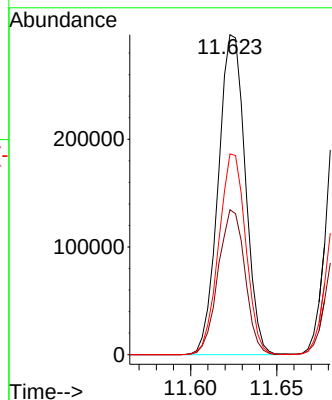
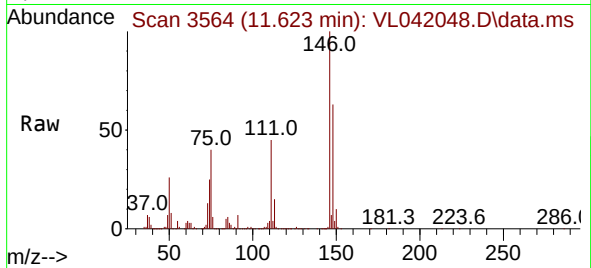
#75
1,3-Dichlorobenzene
Concen: 9.161 ppbv
RT: 11.623 min Scan# 3564
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Instrument : MSVOA_L
ClientSampleId : ICVVL022525

Tgt Ion:146 Resp: 32449
Ion Ratio Lower Upper
146 100
111 45.0 22.4 67.2
148 62.7 32.3 96.8

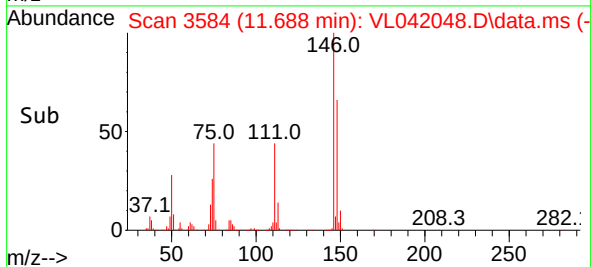
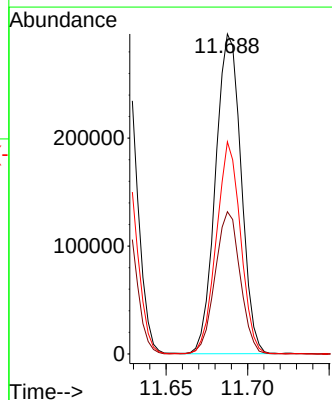
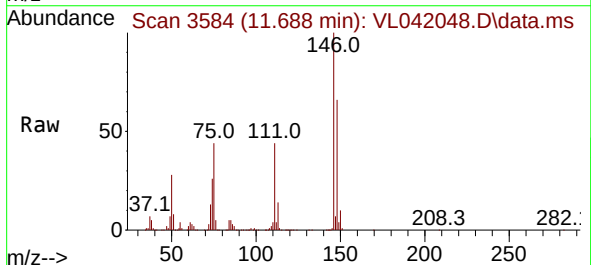
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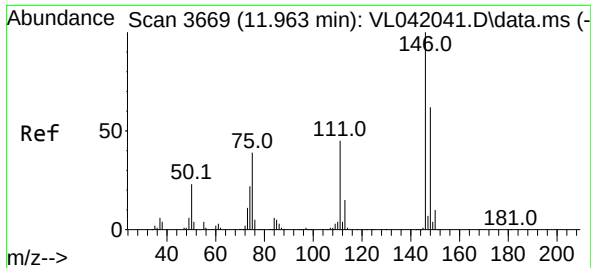
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#76
1,4-Dichlorobenzene
Concen: 9.176 ppbv
RT: 11.688 min Scan# 3584
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion:146 Resp: 322712
Ion Ratio Lower Upper
146 100
111 43.8 21.5 64.5
148 63.2 31.6 95.0





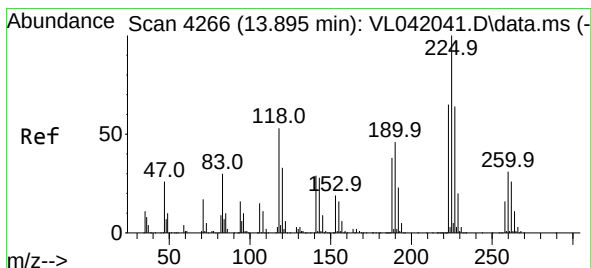
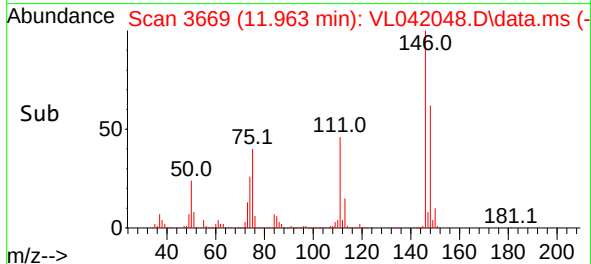
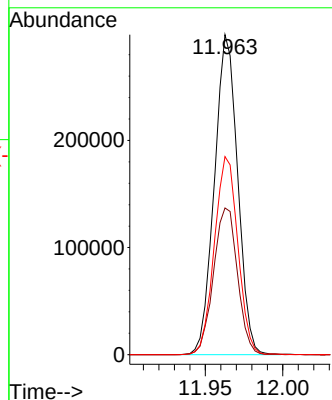
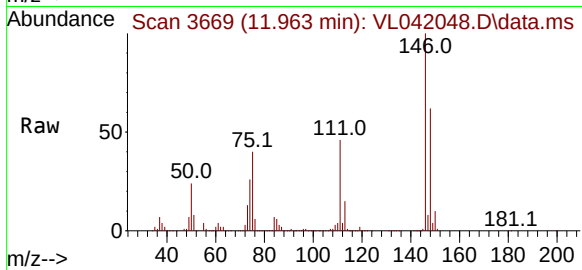
#77
1,2-Dichlorobenzene
Concen: 9.081 ppbv
RT: 11.963 min Scan# 3669
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Instrument : MSVOA_L
ClientSampleId : ICVVL022525

Tgt Ion:146 Resp: 312159
Ion Ratio Lower Upper
146 100
111 47.4 23.2 69.6
148 62.6 31.4 94.2

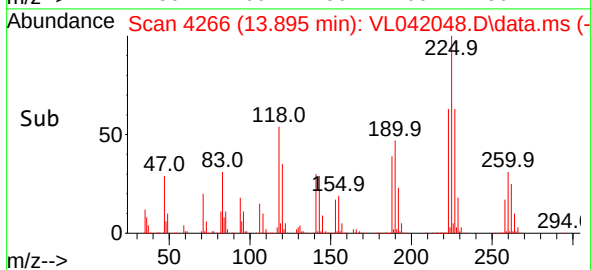
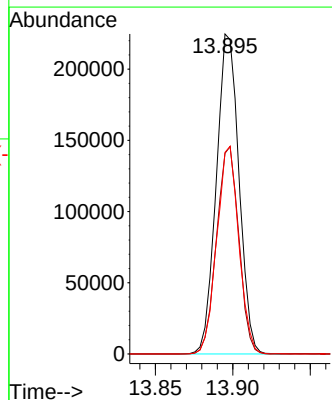
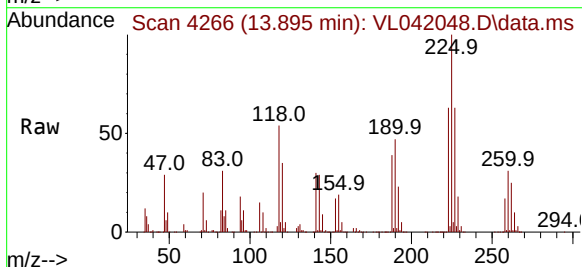
Manual Integrations
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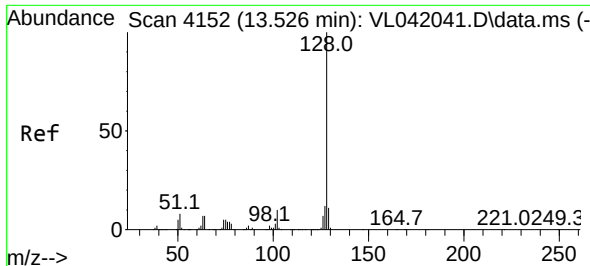
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#78
Hexachloro-1,3-Butadiene
Concen: 8.543 ppbv
RT: 13.895 min Scan# 4266
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

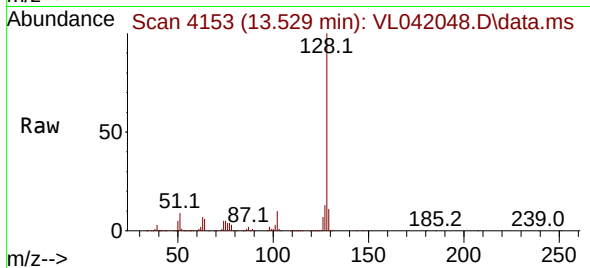
Tgt Ion:225 Resp: 228480
Ion Ratio Lower Upper
225 100
223 63.5 50.2 75.2
227 63.1 50.8 76.2





#79
Naphthalene
Concen: 12.160 ppbv
RT: 13.529 min Scan# 4153
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

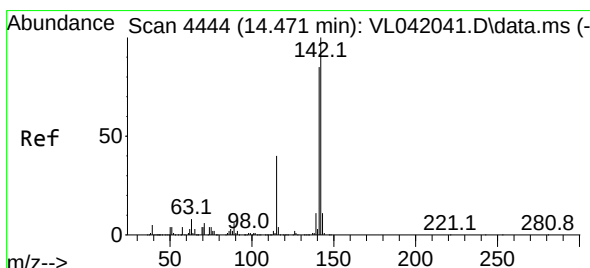
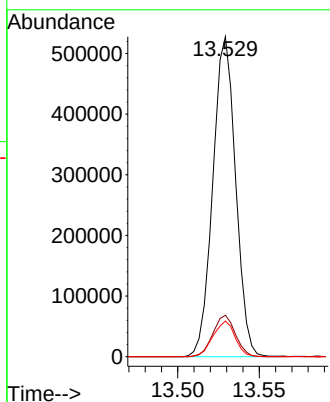
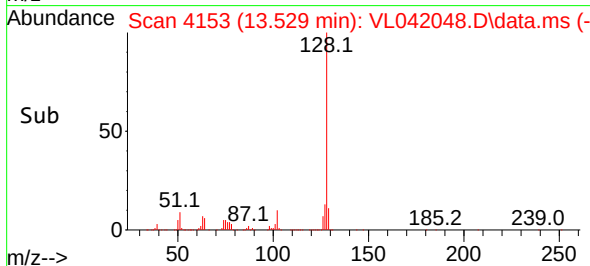
Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525



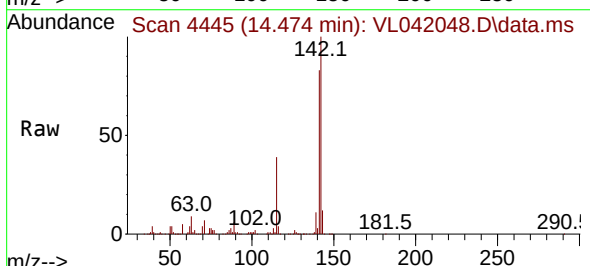
Tgt Ion:128 Resp: 51314
Ion Ratio Lower Upper
128 100
127 13.0 9.8 14.6
129 11.1 8.6 12.8

Manual Integrations
APPROVED

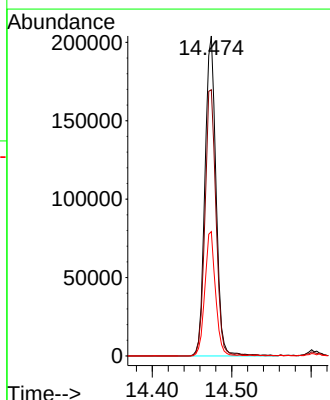
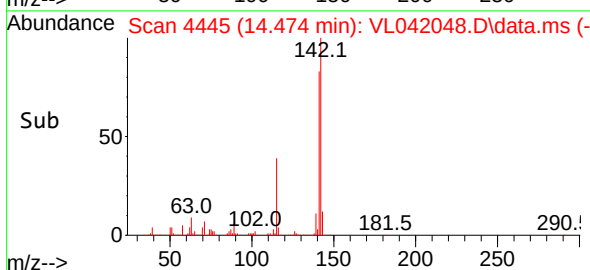
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

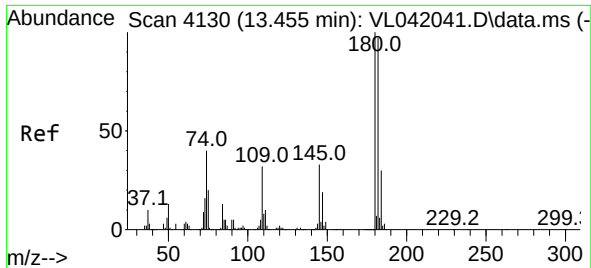


#80
Naphthalene,2-methyl-
Concen: 17.152 ppbv
RT: 14.474 min Scan# 4445
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15



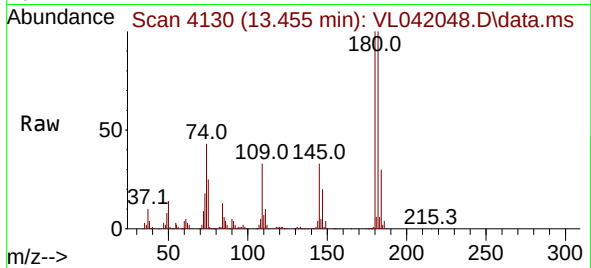
Tgt Ion:142 Resp: 198077
Ion Ratio Lower Upper
142 100
141 83.6 65.8 98.6
115 38.2 29.5 44.3





#81
 1,2,4-Trichlorobenzene
 Concen: 9.965 ppbv
 RT: 13.455 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL042048.D
 Acq: 25 Feb 2025 13:15

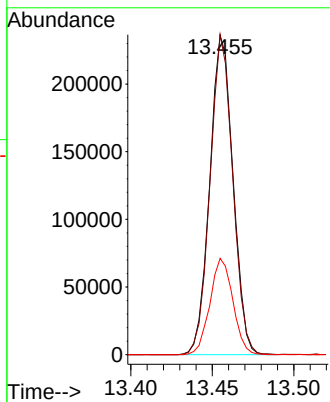
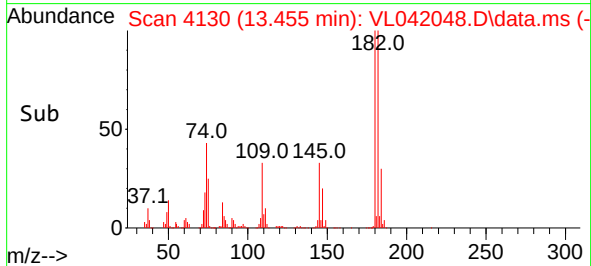
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL022525



Tgt Ion:180 Resp: 234354
 Ion Ratio Lower Upper
 180 100
 182 97.6 75.1 112.7
 184 29.7 23.8 35.6

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042048.D
 Acq On : 25 Feb 2025 13:15
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL022525

Quant Time: Feb 26 01:31:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 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	99	0.00
2 T	Dichlorodifluoromethane	1.040	0.999	3.9	104	0.00
3	Chlorodifluoromethane	1.453	1.382	4.9	104	0.00
4	Chloromethane	0.385	0.344	10.6	99	0.00
5 T	Vinyl Chloride	0.364	0.332	8.8	97	0.00
6 T	Bromomethane	0.173	0.160	7.5	98	0.00
7	Chloroethane	0.148	0.140	5.4	102	0.00
8 T	Dichlorotetrafluoroethane	0.855	0.800	6.4	101	0.00
9 T	Propene	0.592	0.572	3.4	108	0.00
10 T	Heptane	1.844	1.694	8.1	100	0.00
11 T	Trichlorofluoromethane	1.042	0.987	5.3	103	0.00
12 T	1,1,2-Trichlorotrifluoroeth	0.831	0.724	12.9	102	0.00
13	Ethanol	0.038	0.017#	55.3#	83	0.00
14 T	Bromoethene	0.293	0.274	6.5	103	0.00
15 T	Acetone	0.883	0.747	15.4	103	0.00
16 T	1,3-Butadiene	0.411	0.388	5.6	107	0.00
17	tert-Butyl alcohol	1.105	0.970	12.2	101	0.00
18 T	1,1-Dichloroethene	0.376	0.327	13.0	101	0.00
19 T	Isopropyl Alcohol	0.507	0.438	13.6	103	0.00
20 T	Methylene Chloride	0.334	0.265	20.7	100	0.00
21 T	Allyl Chloride	0.638	0.571	10.5	105	0.00
22 T	trans-1,2-Dichloroethene	0.438	0.372	15.1	103	0.00
23 T	Vinyl Acetate	0.621	0.589	5.2	112	0.00
24 T	1,1-Dichloroethane	0.815	0.710	12.9	105	0.00
25 T	Ethyl Acetate	3.535	3.355	5.1	104	0.00
26 T	Hexane	1.429	1.315	8.0	101	0.00
27 T	Carbon Disulfide	0.969	0.870	10.2	100	0.00
28 T	Methyl tert-Butyl Ether	0.711	0.595	16.3	112	0.00
29 T	Chloroform	1.923	1.770	8.0	101	0.00
30 T	Cyclohexane	1.160	1.063	8.4	97	0.00
31 T	cis-1,2-Dichloroethene	1.353	1.256	7.2	100	0.00
32 T	1,1,1-Trichloroethane	1.866	1.753	6.1	98	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	96	0.00
34 T	2-Butanone	0.779	0.758	2.7	105	0.00
35 T	Carbon Tetrachloride	0.690	0.680	1.4	100	0.00
36 T	Benzene	1.047	0.983	6.1	98	0.00
37 T	1,2-Dichloroethane	0.580	0.551	5.0	102	0.00
38 T	Trichloroethene	0.427	0.385	9.8	98	0.00
39 T	1,2-Dichloropropane	0.397	0.374	5.8	101	0.00
40 T	1,4-Dioxane	0.181	0.160	11.6	94	0.00
41 T	Tetrahydrofuran	0.460	0.446	3.0	103	0.00
42 T	Bromodichloromethane	0.782	0.751	4.0	98	0.00
43	Methyl Methacrylate	0.409	0.396	3.2	97	0.00
44 T	2,2,4-Trimethylpentane	1.848	1.752	5.2	101	0.00
45 T	t-1,3-Dichloropropene	0.406	0.393	3.2	96	0.00
46 T	cis-1,3-Dichloropropene	0.526	0.509	3.2	95	0.00
47 T	1,1,2-Trichloroethane	0.403	0.365	9.4	97	0.00
48 T	Dibromochloromethane	0.632	0.594	6.0	96	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042048.D
 Acq On : 25 Feb 2025 13:15
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL022525

Quant Time: Feb 26 01:31:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 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	0.549	0.517	5.8	95	0.00
50 T	4-Methyl-2-Pentanone	1.008	1.061	-5.3	101	0.00
51 T	2-Hexanone	0.693	0.872	-25.8	101	0.00
52 T	Tetrachloroethene	0.358	0.330	7.8	97	0.00
53 T	Toluene	1.170	1.103	5.7	97	0.00
54 T	1,2-Dibromoethane	0.545	0.508	6.8	98	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	94	0.00
56	1,1,1,2-Tetrachloroethane	0.565	0.522	7.6	97	0.00
57 T	Chlorobenzene	1.037	0.956	7.8	98	0.00
58 T	Ethyl Benzene	1.842	1.752	4.9	97	0.00
59 T	m/p-Xylene	1.466	1.395	4.8	98	0.02
60 T	o-Xylene	1.473	1.375	6.7	98	0.00
61 T	Styrene	0.693	0.690	0.4	98	0.00
62	Isopropylbenzene	2.207	2.082	5.7	99	0.00
63 T	1,1,2,2-Tetrachloroethane	0.970	0.893	7.9	99	0.00
64	n-propylbenzene	0.579	0.550	5.0	98	0.00
65	tert-Butylbenzene	2.008	1.805	10.1	97	0.00
66 T	Benzyl Chloride	0.153	0.150	2.0	92	0.00
67	sec-Butylbenzene	2.872	2.611	9.1	98	0.00
68 S	1-Bromo-4-Fluorobenzene	0.769	0.784	-2.0	96	0.00
69	p-Isopropyltoluene	2.285	2.152	5.8	100	0.00
70	n-Butylbenzene	2.332	2.230	4.4	101	0.00
71	2-Chlorotoluene	1.701	1.599	6.0	99	0.00
72 T	4-Ethyltoluene	1.799	1.719	4.4	99	0.00
73 T	1,3,5-Trimethylbenzene	1.560	1.443	7.5	98	0.00
74 T	1,2,4-Trimethylbenzene	1.757	1.562	11.1	99	0.00
75 T	1,3-Dichlorobenzene	1.011	0.926	8.4	100	0.00
76 T	1,4-Dichlorobenzene	1.004	0.921	8.3	100	0.00
77 T	1,2-Dichlorobenzene	0.981	0.891	9.2	100	0.00
78 T	Hexachloro-1,3-Butadiene	0.764	0.652	14.7	96	0.00
79 T	Naphthalene	1.205	1.465	-21.6	100	0.00
80 T	Naphthalene,2-methyl-	0.330	0.566	-71.5#	94	0.00
81 T	1,2,4-Trichlorobenzene	0.671	0.669	0.3	97	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042048.D
 Acq On : 25 Feb 2025 13:15
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL022525

Quant Time: Feb 26 01:31:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 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	99	0.00
2 T	Dichlorodifluoromethane	10.000	9.606	3.9	104	0.00
3	Chlorodifluoromethane	10.000	9.512	4.9	104	0.00
4	Chloromethane	10.000	8.941	10.6	99	0.00
5 T	Vinyl Chloride	10.000	9.114	8.9	97	0.00
6 T	Bromomethane	10.000	9.221	7.8	98	0.00
7	Chloroethane	10.000	9.443	5.6	102	0.00
8 T	Dichlorotetrafluoroethane	10.000	9.354	6.5	101	0.00
9 T	Propene	10.000	9.657	3.4	108	0.00
10 T	Heptane	10.000	9.188	8.1	100	0.00
11 T	Trichlorofluoromethane	10.000	9.476	5.2	103	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	8.715	12.9	102	0.00
13	Ethanol	10.000	4.404	56.0#	83	0.00
14 T	Bromoethene	10.000	9.338	6.6	103	0.00
15 T	Acetone	10.000	8.460	15.4	103	0.00
16 T	1,3-Butadiene	10.000	9.434	5.7	107	0.00
17	tert-Butyl alcohol	10.000	8.779	12.2	101	0.00
18 T	1,1-Dichloroethene	10.000	8.711	12.9	101	0.00
19 T	Isopropyl Alcohol	10.000	8.629	13.7	103	0.00
20 T	Methylene Chloride	10.000	7.919	20.8	100	0.00
21 T	Allyl Chloride	10.000	8.951	10.5	105	0.00
22 T	trans-1,2-Dichloroethene	10.000	8.502	15.0	103	0.00
23 T	Vinyl Acetate	10.000	9.488	5.1	112	0.00
24 T	1,1-Dichloroethane	10.000	8.721	12.8	105	0.00
25 T	Ethyl Acetate	10.000	9.492	5.1	104	0.00
26 T	Hexane	10.000	9.203	8.0	101	0.00
27 T	Carbon Disulfide	10.000	8.978	10.2	100	0.00
28 T	Methyl tert-Butyl Ether	10.000	8.365	16.3	112	0.00
29 T	Chloroform	10.000	9.202	8.0	101	0.00
30 T	Cyclohexane	10.000	9.161	8.4	97	0.00
31 T	cis-1,2-Dichloroethene	10.000	9.285	7.1	100	0.00
32 T	1,1,1-Trichloroethane	10.000	9.396	6.0	98	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	96	0.00
34 T	2-Butanone	10.000	9.727	2.7	105	0.00
35 T	Carbon Tetrachloride	10.000	9.867	1.3	100	0.00
36 T	Benzene	10.000	9.395	6.1	98	0.00
37 T	1,2-Dichloroethane	10.000	9.491	5.1	102	0.00
38 T	Trichloroethene	10.000	9.005	9.9	98	0.00
39 T	1,2-Dichloropropane	10.000	9.414	5.9	101	0.00
40 T	1,4-Dioxane	10.000	8.817	11.8	94	0.00
41 T	Tetrahydrofuran	10.000	9.696	3.0	103	0.00
42 T	Bromodichloromethane	10.000	9.606	3.9	98	0.00
43	Methyl Methacrylate	10.000	9.685	3.1	97	0.00
44 T	2,2,4-Trimethylpentane	10.000	9.480	5.2	101	0.00
45 T	t-1,3-Dichloropropene	10.000	9.671	3.3	96	0.00
46 T	cis-1,3-Dichloropropene	10.000	9.680	3.2	95	0.00
47 T	1,1,2-Trichloroethane	10.000	9.039	9.6	97	0.00
48 T	Dibromochloromethane	10.000	9.407	5.9	96	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042048.D
 Acq On : 25 Feb 2025 13:15
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL022525

Quant Time: Feb 26 01:31:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 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	9.432	5.7	95	0.00
50 T	4-Methyl-2-Pentanone	10.000	10.526	-5.3	101	0.00
51 T	2-Hexanone	10.000	12.576	-25.8	101	0.00
52 T	Tetrachloroethene	10.000	9.202	8.0	97	0.00
53 T	Toluene	10.000	9.430	5.7	97	0.00
54 T	1,2-Dibromoethane	10.000	9.307	6.9	98	0.00
55 I	Chlorobenzene-d5	10.000	10.000	0.0	94	0.00
56	1,1,1,2-Tetrachloroethane	10.000	9.234	7.7	97	0.00
57 T	Chlorobenzene	10.000	9.216	7.8	98	0.00
58 T	Ethyl Benzene	10.000	9.513	4.9	97	0.00
59 T	m/p-Xylene	20.000	19.041	4.8	98	0.02
60 T	o-Xylene	10.000	9.334	6.7	98	0.00
61 T	Styrene	10.000	9.959	0.4	98	0.00
62	Isopropylbenzene	10.000	9.437	5.6	99	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	9.204	8.0	99	0.00
64	n-propylbenzene	10.000	9.506	4.9	98	0.00
65	tert-Butylbenzene	10.000	8.988	10.1	97	0.00
66 T	Benzyl Chloride	10.000	9.808	1.9	92	0.00
67	sec-Butylbenzene	10.000	9.090	9.1	98	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	10.188	-1.9	96	0.00
69	p-Isopropyltoluene	10.000	9.418	5.8	100	0.00
70	n-Butylbenzene	10.000	9.560	4.4	101	0.00
71	2-Chlorotoluene	10.000	9.399	6.0	99	0.00
72 T	4-Ethyltoluene	10.000	9.557	4.4	99	0.00
73 T	1,3,5-Trimethylbenzene	10.000	9.248	7.5	98	0.00
74 T	1,2,4-Trimethylbenzene	10.000	8.891	11.1	99	0.00
75 T	1,3-Dichlorobenzene	10.000	9.161	8.4	100	0.00
76 T	1,4-Dichlorobenzene	10.000	9.176	8.2	100	0.00
77 T	1,2-Dichlorobenzene	10.000	9.081	9.2	100	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	8.543	14.6	96	0.00
79 T	Naphthalene	10.000	12.160	-21.6	100	0.00
80 T	Naphthalene,2-methyl-	10.000	17.152	-71.5#	94	0.00
81 T	1,2,4-Trichlorobenzene	10.000	9.965	0.4	97	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GFEL01

Lab Code: CHEM Case No.: Q1506 SAS No.: Q1506 SDG No.: Q1506

Instrument ID: MSVOA_L Calibration Date/Time: 03/10/2025 09:08

Lab File ID: VL042115.D Init. Calib. Date(s): 02/25/2025 02/25/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 08:56 12:07

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

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Vinyl Chloride	0.364	0.383		5.22	30
1,1-Dichloroethene	0.376	0.364		-3.19	30
cis-1,2-Dichloroethene	1.353	1.052		-22.25	30
1,1,1-Trichloroethane	1.866	1.485		-20.42	30
Trichloroethene	0.427	0.360		-15.69	30
Tetrachloroethene	0.358	0.306		-14.52	30
1-Bromo-4-Fluorobenzene	0.769	0.815		5.98	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\VL031025\
 Data File : VL042115.D
 Acq On : 10 Mar 2025 09:08
 Operator : SY/MD
 Sample : VSTDC0010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDC0010

Quant Time: Mar 11 01:20:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	165085	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	392891	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	342991	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	279482	10.591	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.900%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.502	85	176674	10.292	ppbv	100
3) Chlorodifluoromethane	1.479	51	214625	8.945	ppbv	100
4) Chloromethane	1.538	50	66603	10.491	ppbv	99
5) Vinyl Chloride	1.586	62	63194	10.524	ppbv	99
6) Bromomethane	1.674	94	31189	10.908	ppbv	95
7) Chloroethane	1.709	64	25650	10.513	ppbv	96
8) Dichlorotetrafluoroethane	1.560	85	149265	10.577	ppbv	96
9) Propene	1.489	41	84787	8.674	ppbv	97
10) Heptane	5.004	43	250763	8.240	ppbv	99
11) Trichlorofluoromethane	1.884	101	186477	10.841	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.146	101	135213	9.855	ppbv	95
13) Ethanol	1.729	45	4581	7.383	ppbv	100
14) Bromoethene	1.787	108	49525	10.221	ppbv	99
15) Acetone	1.842	43	143215	9.824	ppbv	98
16) 1,3-Butadiene	1.615	39	69593	10.258	ppbv	97
17) tert-Butyl alcohol	2.049	59	159834	8.763	ppbv	99
18) 1,1-Dichloroethene	2.043	96	60058	9.687	ppbv	93
19) Isopropyl Alcohol	1.894	45	80799	9.648	ppbv	95
20) Methylene Chloride	2.068	84	54929	9.961	ppbv	94
21) Allyl Chloride	2.104	41	103183	9.796	ppbv	97
22) trans-1,2-Dichloroethene	2.350	96	72057	9.970	ppbv	93
23) Vinyl Acetate	2.473	43	75424	7.358	ppbv #	97
24) 1,1-Dichloroethane	2.418	63	139243	10.354	ppbv	99
25) Ethyl Acetate	2.848	43	504073	8.638	ppbv	99
26) Hexane	2.839	57	200177	8.485	ppbv	97
27) Carbon Disulfide	2.159	76	161105	10.074	ppbv	99
28) Methyl tert-Butyl Ether	2.450	73	124414	10.593	ppbv	96
29) Chloroform	2.861	83	278501	8.771	ppbv	97
30) Cyclohexane	3.874	84	154573	8.072	ppbv	98
31) cis-1,2-Dichloroethene	2.732	61	173603	7.774	ppbv	98
32) 1,1,1-Trichloroethane	3.382	97	245078	7.957	ppbv	95
34) 2-Butanone	2.570	43	280396	9.161	ppbv	96
35) Carbon Tetrachloride	3.777	117	263471	9.725	ppbv	96
36) Benzene	3.671	78	373628	9.084	ppbv	99
37) 1,2-Dichloroethane	3.234	62	197592	8.665	ppbv	100
38) Trichloroethene	4.567	130	141399	8.419	ppbv	91
39) 1,2-Dichloropropane	4.331	63	143609	9.199	ppbv	96
40) 1,4-Dioxane	4.609	88	66354	9.311	ppbv #	98
41) Tetrahydrofuran	3.069	42	160836	8.893	ppbv	96
42) Bromodichloromethane	4.509	83	282060	9.180	ppbv	98
43) Methyl Methacrylate	4.907	69	131818	8.207	ppbv	95
44) 2,2,4-Trimethylpentane	4.661	57	672958	9.271	ppbv	98
45) t-1,3-Dichloropropene	6.441	75	120441	7.547	ppbv	97

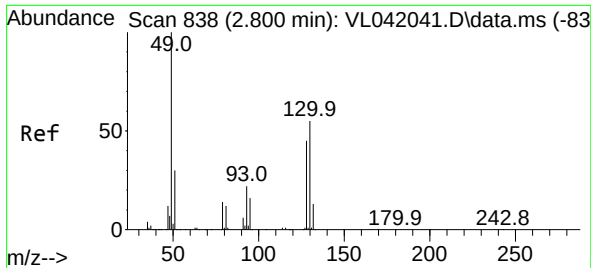
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 Data File : VL042115.D
 Acq On : 10 Mar 2025 09:08
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Quant Time: Mar 11 01:20:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.625	75	168796	8.174	ppbv	98
47) 1,1,2-Trichloroethane	6.603	97	144966m	9.147	ppbv	
48) Dibromochloromethane	7.406	129	223556	9.006	ppbv	98
49) Bromoform	9.500	173	202719	9.404	ppbv	98
50) 4-Methyl-2-Pentanone	5.784	43	384115	9.703	ppbv	98
51) 2-Hexanone	7.457	43	305375	11.208	ppbv #	98
52) Tetrachloroethene	8.244	164	120090	8.529	ppbv	97
53) Toluene	6.959	91	388571	8.453	ppbv	99
54) 1,2-Dibromoethane	7.671	107	189652	8.851	ppbv	94
56) 1,1,1,2-Tetrachloroethane	8.943	131	184992	9.542	ppbv	99
57) Chlorobenzene	8.937	112	330038	9.281	ppbv	99
58) Ethyl Benzene	9.370	91	549396	8.698	ppbv	100
59) m/p-Xylene	9.564	91	930397m	18.509	ppbv	
60) o-Xylene	9.979	91	466520	9.232	ppbv	98
61) Styrene	9.885	104	204092	8.590	ppbv	98
62) Isopropylbenzene	10.552	105	696113	9.198	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.979	83	327603	9.844	ppbv	99
64) n-propylbenzene	11.002	120	187705	9.455	ppbv	99
65) tert-Butylbenzene	11.542	119	627319	9.108	ppbv	99
66) Benzyl Chloride	11.626	91	43097	8.200	ppbv	100
67) sec-Butylbenzene	11.782	105	899556	9.132	ppbv	99
69) p-Isopropyltoluene	11.937	119	744068	9.494	ppbv	99
70) n-Butylbenzene	12.293	91	759905	9.499	ppbv	99
71) 2-Chlorotoluene	10.914	91	515375	8.834	ppbv	99
72) 4-Ethyltoluene	11.137	105	566348	9.179	ppbv	100
73) 1,3,5-Trimethylbenzene	11.218	105	480409	8.976	ppbv	99
74) 1,2,4-Trimethylbenzene	11.549	105	550074	9.127	ppbv	95
75) 1,3-Dichlorobenzene	11.620	146	325514	9.385	ppbv	99
76) 1,4-Dichlorobenzene	11.684	146	321685	9.341	ppbv	100
77) 1,2-Dichlorobenzene	11.960	146	322300	9.575	ppbv	99
78) Hexachloro-1,3-Butadiene	13.895	225	221283	8.449	ppbv	100
79) Naphthalene	13.526	128	470224	11.379	ppbv	99
80) Naphthalene,2-methyl-	14.471	142	147775	13.067	ppbv	99
81) 1,2,4-Trichlorobenzene	13.455	180	214425	9.311	ppbv	99

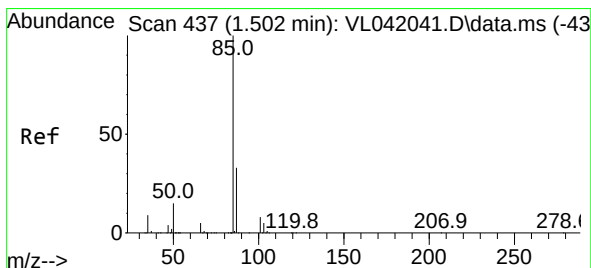
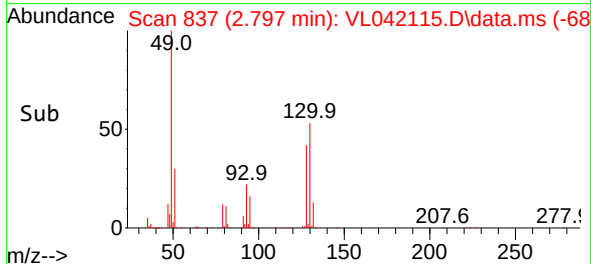
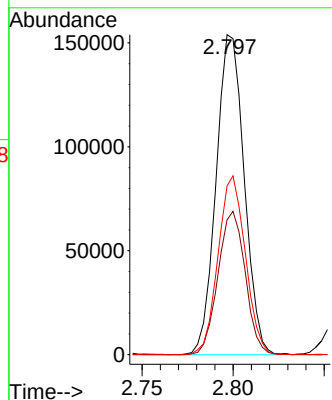
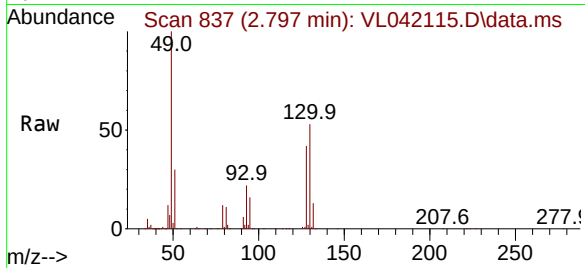
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

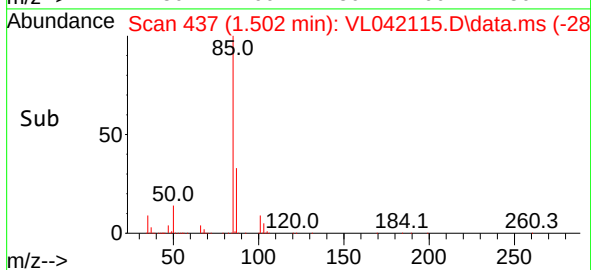
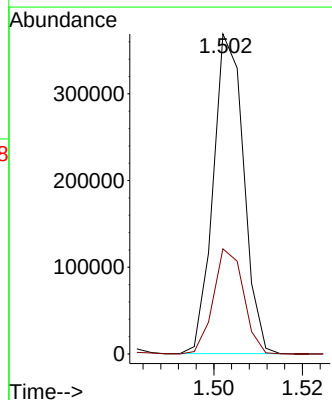
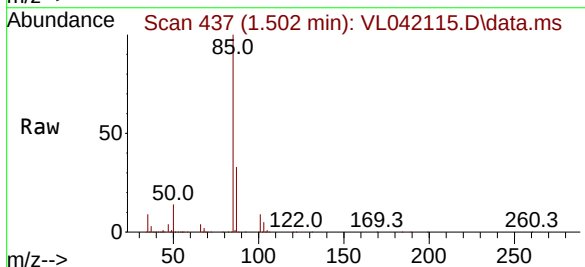
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ClientSampleId :
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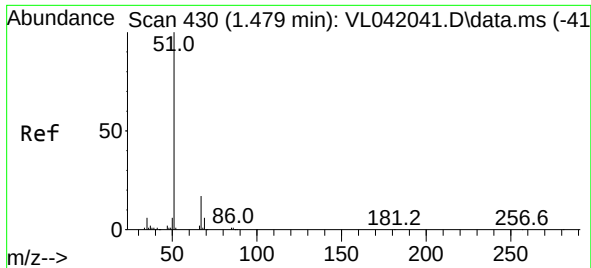
Tgt Ion: 49 Resp: 165085
Ion Ratio Lower Upper
49 100
128 43.4 21.6 64.8
130 54.2 27.8 83.4



#2
Dichlorodifluoromethane
Concen: 10.292 ppbv
RT: 1.502 min Scan# 437
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 85 Resp: 176674
Ion Ratio Lower Upper
85 100
87 32.9 26.4 39.6

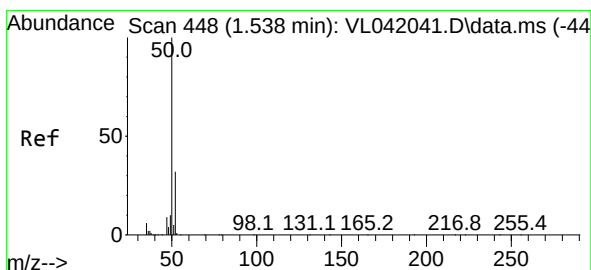
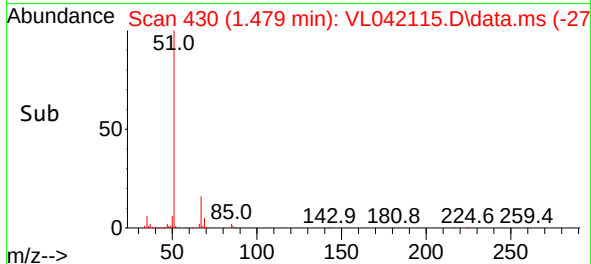
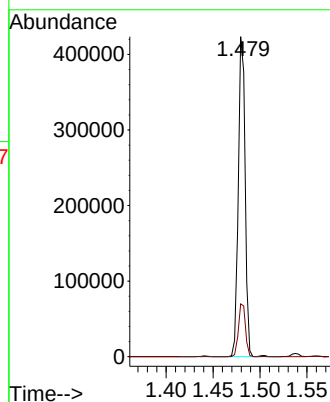
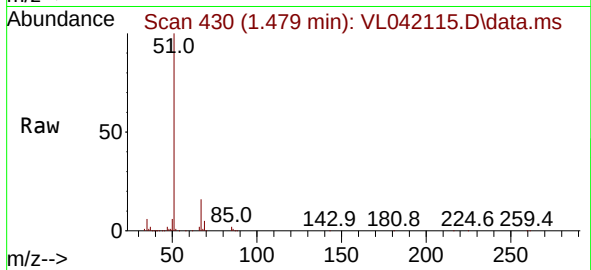




#3
Chlorodifluoromethane
Concen: 8.945 ppbv
RT: 1.479 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

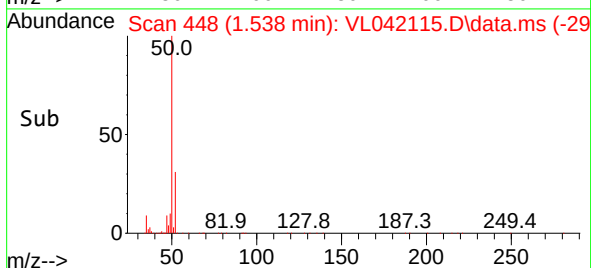
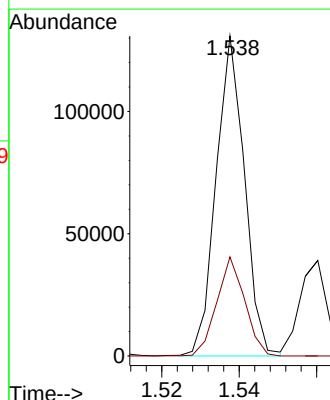
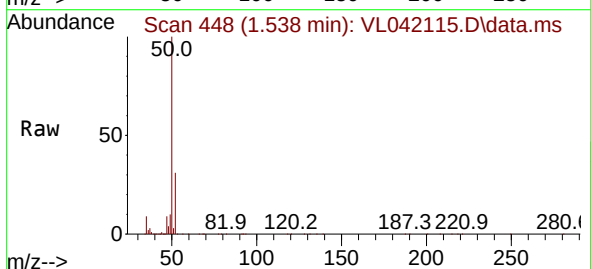
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ClientSampleId :
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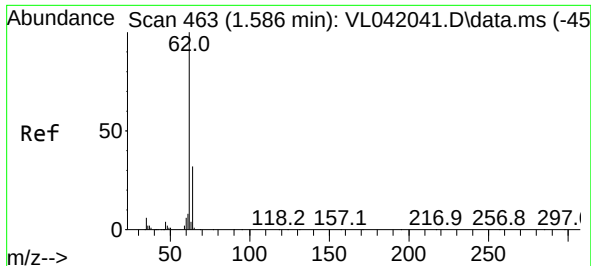
Tgt Ion: 51 Resp: 214625
Ion Ratio Lower Upper
51 100
67 16.9 13.7 20.5



#4
Chloromethane
Concen: 10.491 ppbv
RT: 1.538 min Scan# 448
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 50 Resp: 66603
Ion Ratio Lower Upper
50 100
52 31.0 25.4 38.0

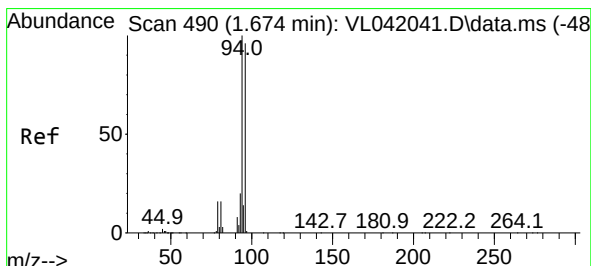
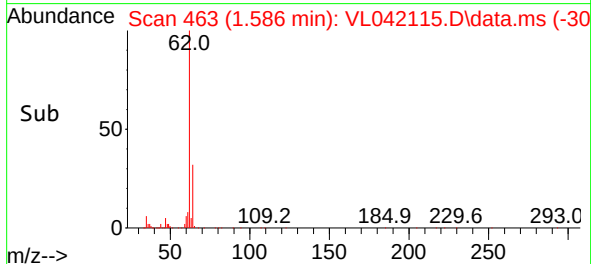
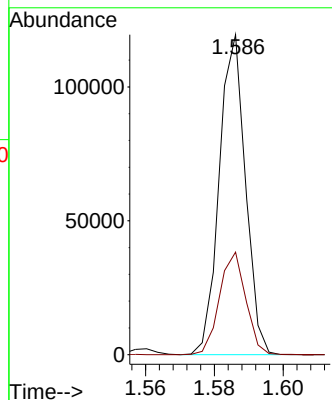
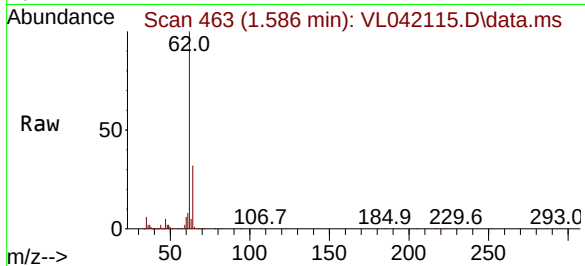




#5
 Vinyl Chloride
 Concen: 10.524 ppbv
 RT: 1.586 min Scan# 40
 Delta R.T. -0.000 min
 Lab File: VL042115.D
 Acq: 10 Mar 2025 09:08

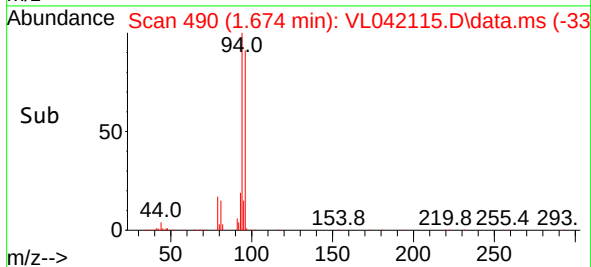
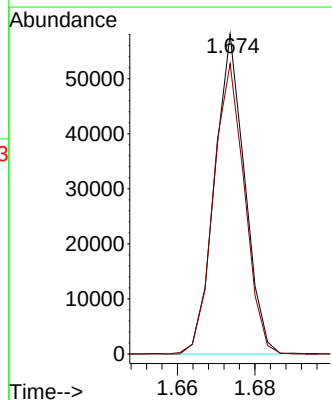
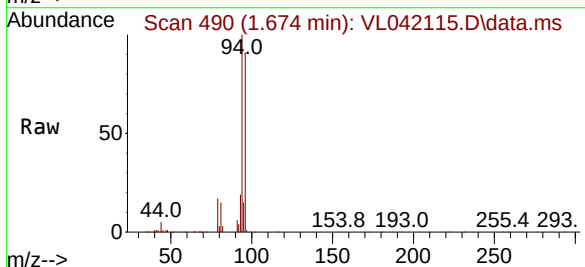
Instrument :
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 ClientSampleId :
 VSTDCCC010

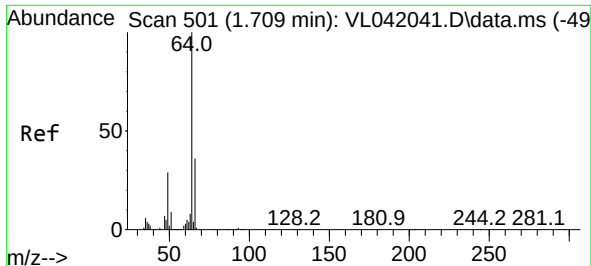
Tgt Ion: 62 Resp: 63194
 Ion Ratio Lower Upper
 62 100
 64 32.1 25.3 37.9



#6
 Bromomethane
 Concen: 10.908 ppbv
 RT: 1.674 min Scan# 490
 Delta R.T. -0.000 min
 Lab File: VL042115.D
 Acq: 10 Mar 2025 09:08

Tgt Ion: 94 Resp: 31189
 Ion Ratio Lower Upper
 94 100
 96 90.5 76.5 114.7

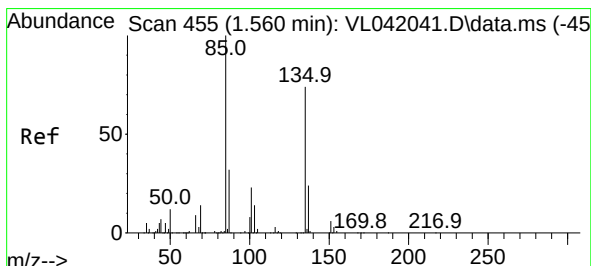
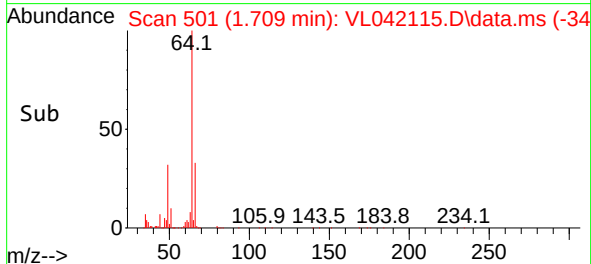
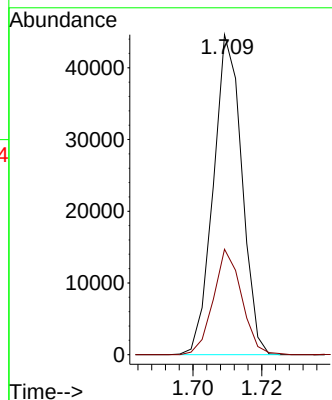
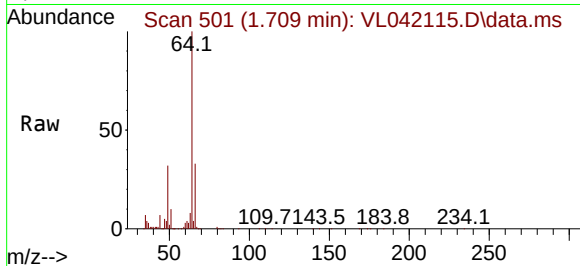




#7
Chloroethane
Concen: 10.513 ppbv
RT: 1.709 min Scan# 501
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

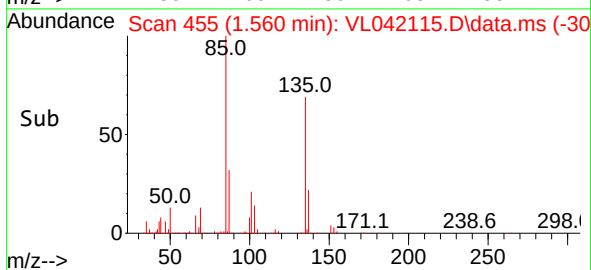
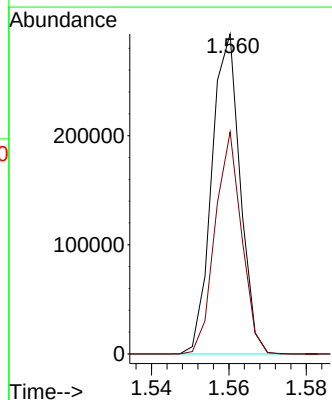
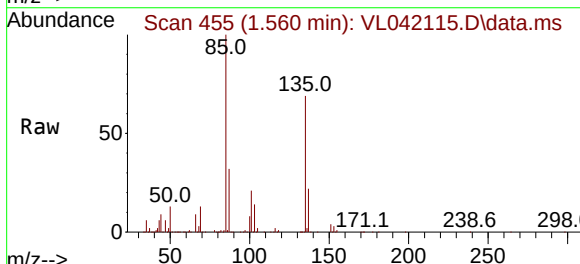
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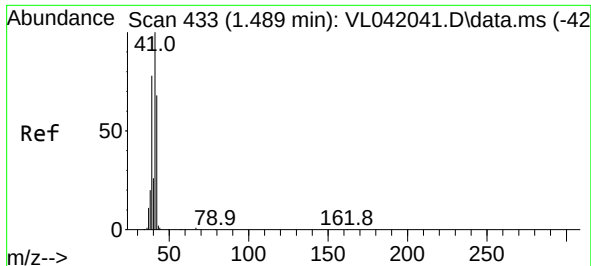
Tgt Ion: 64 Resp: 25650
Ion Ratio Lower Upper
64 100
66 32.9 28.4 42.6



#8
Dichlorotetrafluoroethane
Concen: 10.577 ppbv
RT: 1.560 min Scan# 455
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 85 Resp: 149265
Ion Ratio Lower Upper
85 100
135 64.9 54.6 81.8





#9

Propene

Concen: 8.674 ppbv

RT: 1.489 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042115.D

Acq: 10 Mar 2025 09:08

Instrument :

MSVOA_L

ClientSampleId :

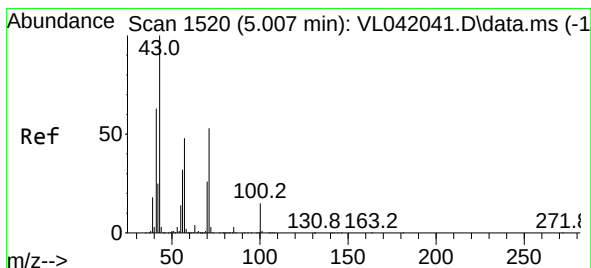
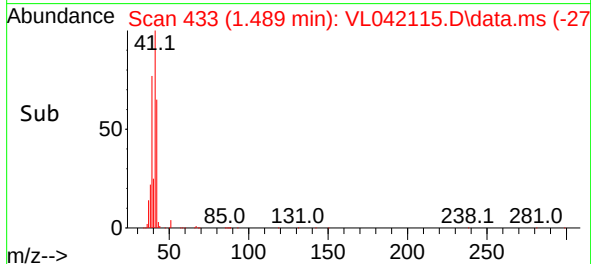
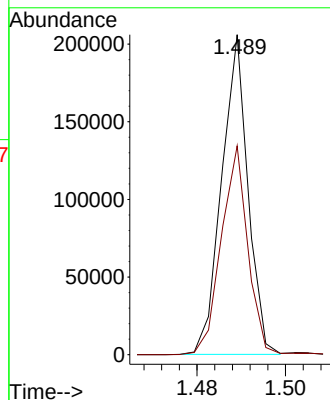
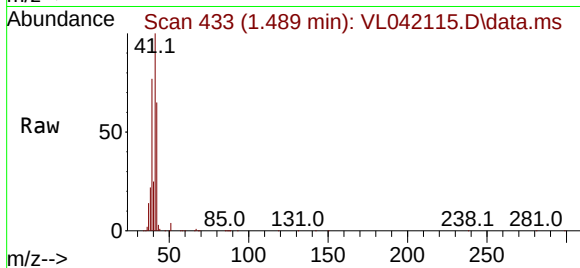
VSTDCCC010

Tgt Ion: 41 Resp: 84787

Ion Ratio Lower Upper

41 100

42 67.0 55.8 83.6



#10

Heptane

Concen: 8.240 ppbv

RT: 5.004 min Scan# 1519

Delta R.T. -0.003 min

Lab File: VL042115.D

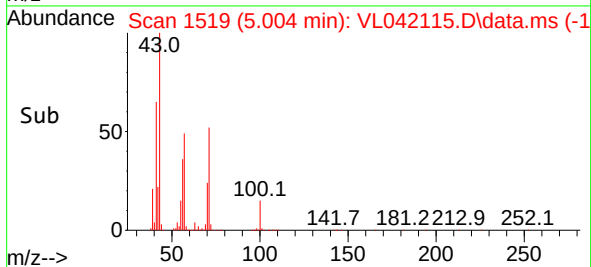
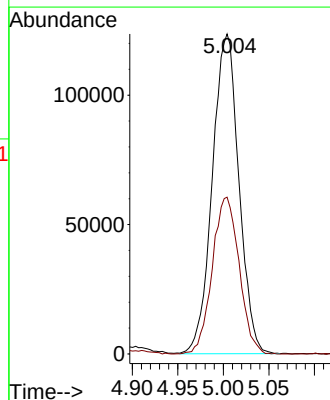
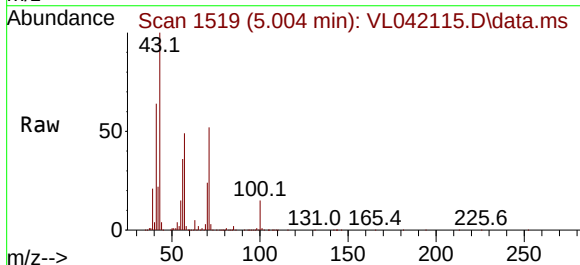
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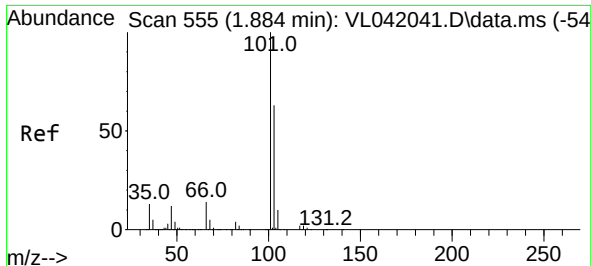
Tgt Ion: 43 Resp: 250763

Ion Ratio Lower Upper

43 100

57 49.6 39.4 59.0

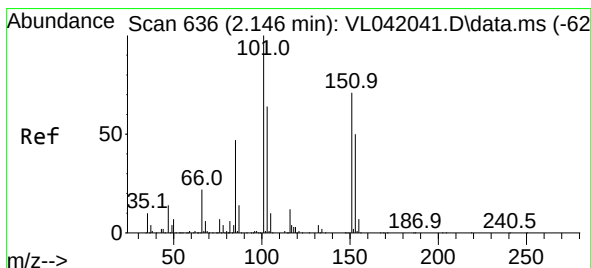
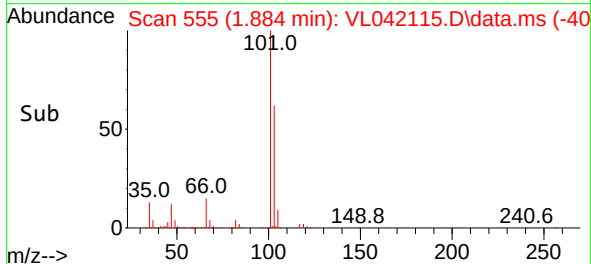
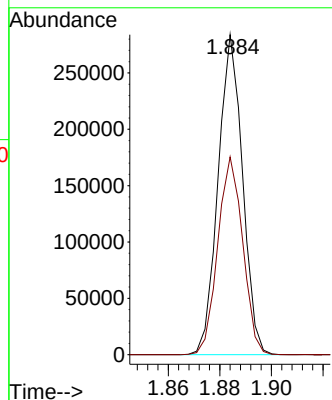
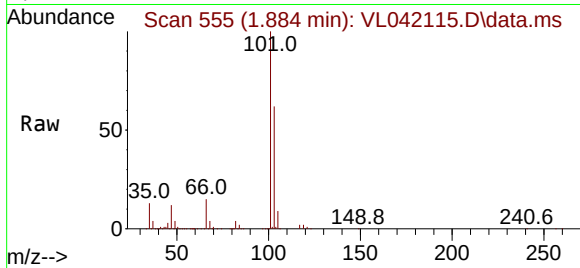




#11
 Trichlorofluoromethane
 Concen: 10.841 ppbv
 RT: 1.884 min Scan# 511
 Delta R.T. -0.000 min
 Lab File: VL042115.D
 Acq: 10 Mar 2025 09:08

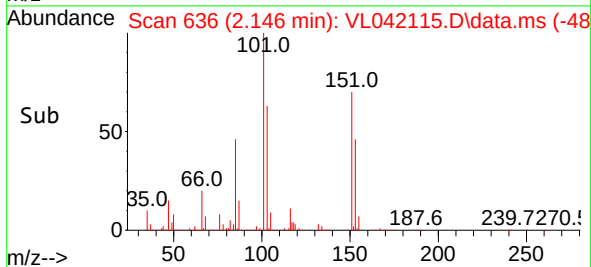
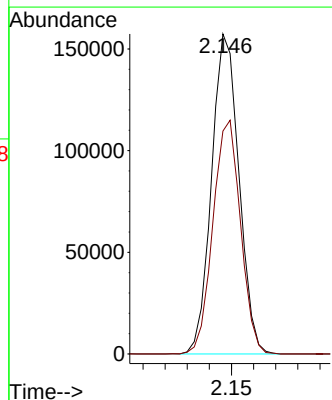
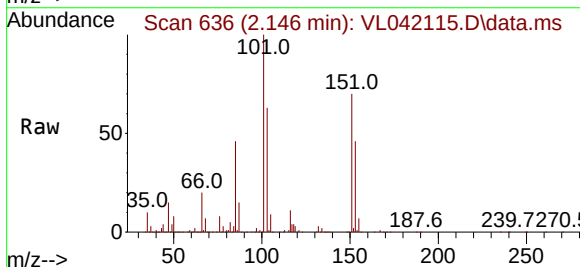
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 ClientSampleId :
 VSTDCCC010

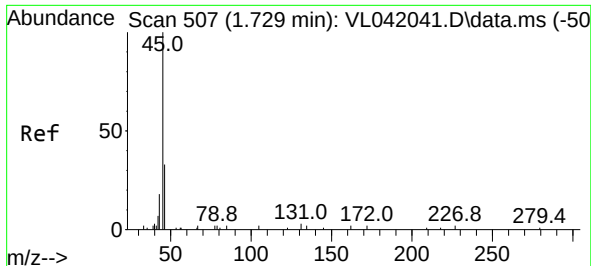
Tgt Ion:101 Resp: 186477
 Ion Ratio Lower Upper
 101 100
 103 61.8 50.6 75.8



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.855 ppbv
 RT: 2.146 min Scan# 636
 Delta R.T. -0.000 min
 Lab File: VL042115.D
 Acq: 10 Mar 2025 09:08

Tgt Ion:101 Resp: 135213
 Ion Ratio Lower Upper
 101 100
 151 73.6 62.6 94.0

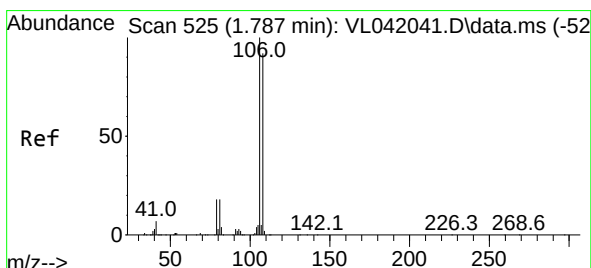
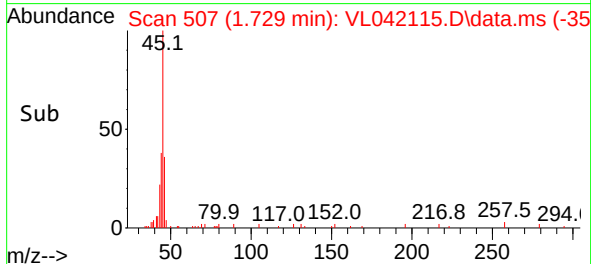
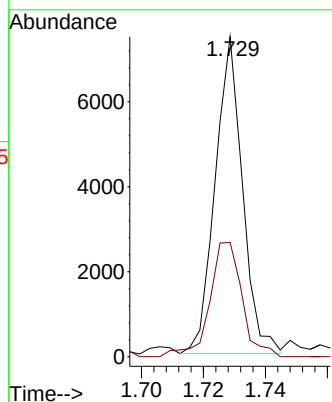
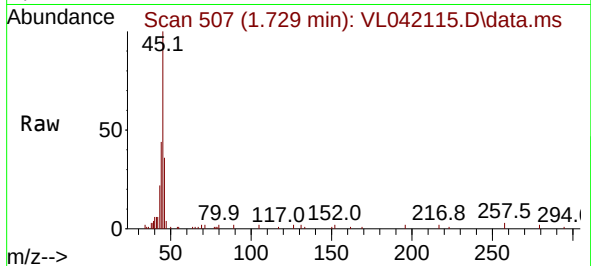




#13
 Ethanol
 Concen: 7.383 ppbv
 RT: 1.729 min Scan# 507
 Delta R.T. -0.000 min
 Lab File: VL042115.D
 Acq: 10 Mar 2025 09:08

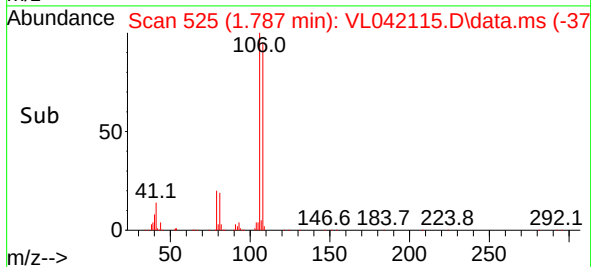
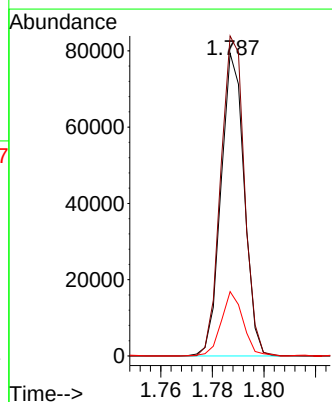
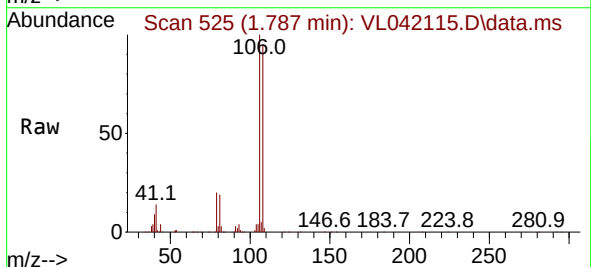
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

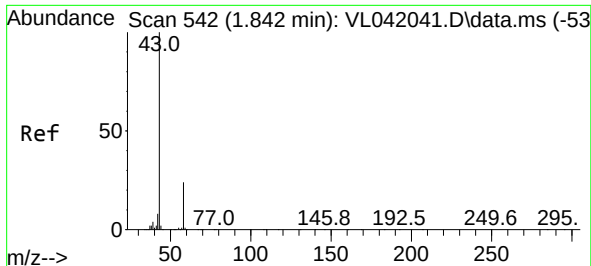
Tgt Ion: 45 Resp: 4581
 Ion Ratio Lower Upper
 45 100
 46 42.4 17.1 68.3



#14
 Bromoethene
 Concen: 10.221 ppbv
 RT: 1.787 min Scan# 525
 Delta R.T. -0.000 min
 Lab File: VL042115.D
 Acq: 10 Mar 2025 09:08

Tgt Ion: 108 Resp: 49525
 Ion Ratio Lower Upper
 108 100
 106 107.8 85.4 128.0
 79 20.3 16.5 24.7

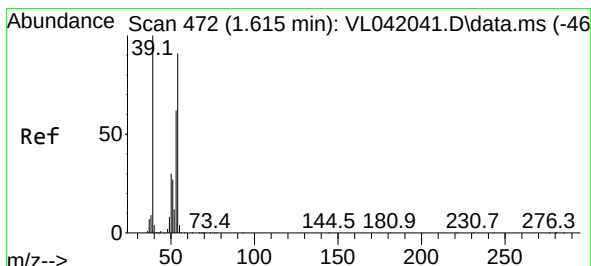
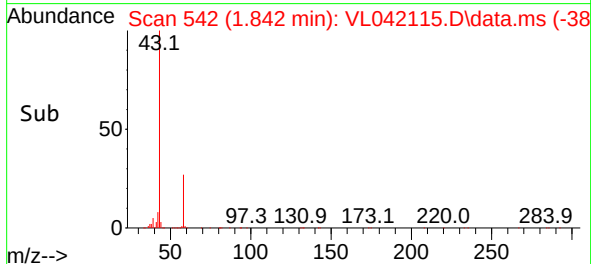
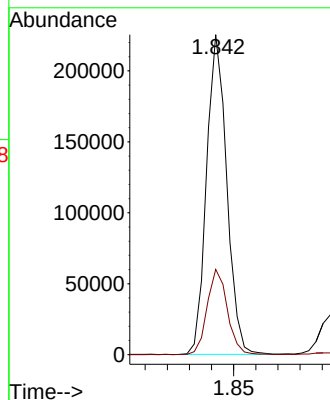
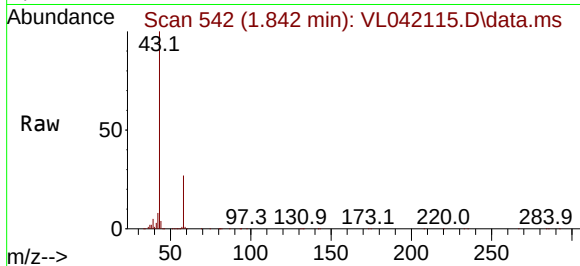




#15
Acetone
Concen: 9.824 ppbv
RT: 1.842 min Scan# 542
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

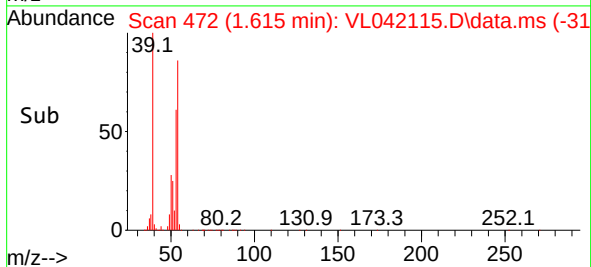
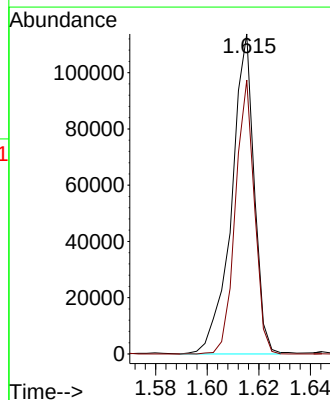
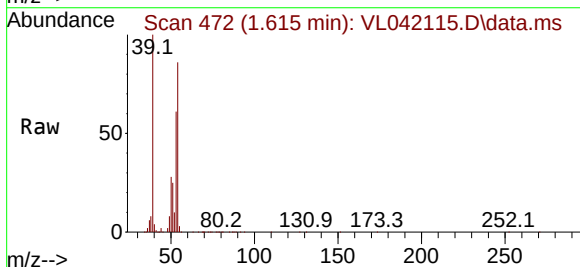
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

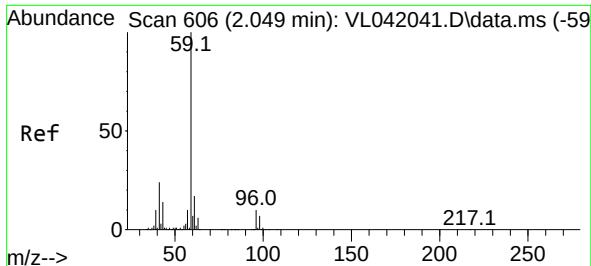
Tgt Ion: 43 Resp: 143215
Ion Ratio Lower Upper
43 100
58 26.8 20.7 31.1



#16
1,3-Butadiene
Concen: 10.258 ppbv
RT: 1.615 min Scan# 472
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 39 Resp: 69593
Ion Ratio Lower Upper
39 100
54 71.8 59.6 89.4





#17

tert-Butyl alcohol

Concen: 8.763 ppbv

RT: 2.049 min Scan# 606

Delta R.T. -0.000 min

Lab File: VL042115.D

Acq: 10 Mar 2025 09:08

Instrument :

MSVOA_1

ClientSampleId :

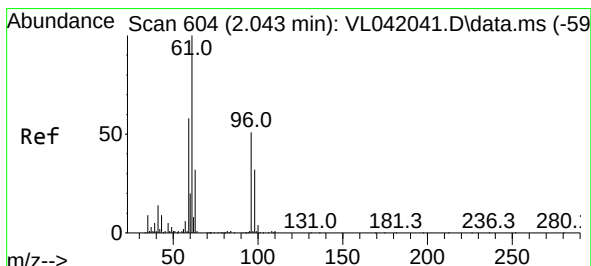
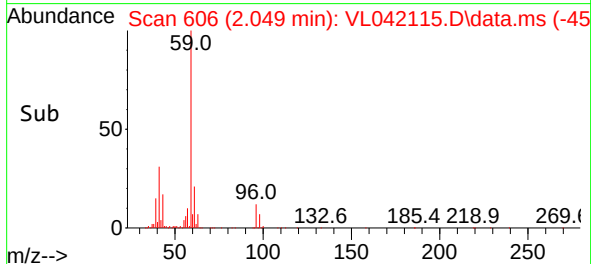
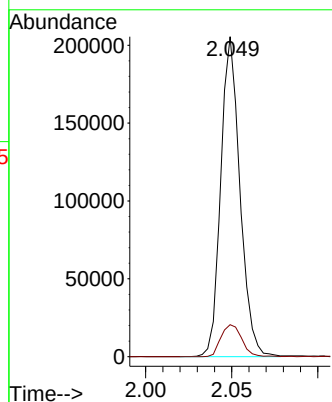
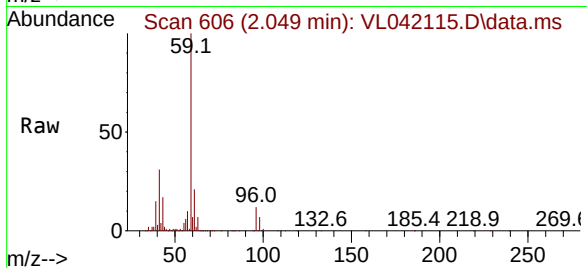
VSTDCCC010

Tgt Ion: 59 Resp: 159834

Ion Ratio Lower Upper

59 100

57 11.1 9.3 13.9



#18

1,1-Dichloroethene

Concen: 9.687 ppbv

RT: 2.043 min Scan# 604

Delta R.T. -0.000 min

Lab File: VL042115.D

Acq: 10 Mar 2025 09:08

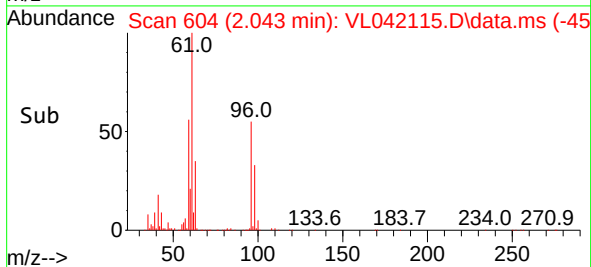
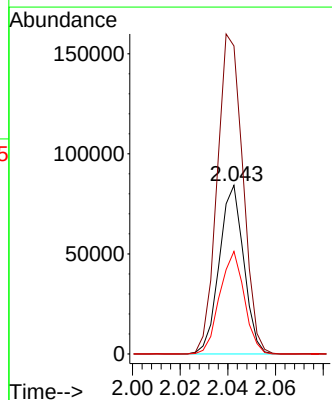
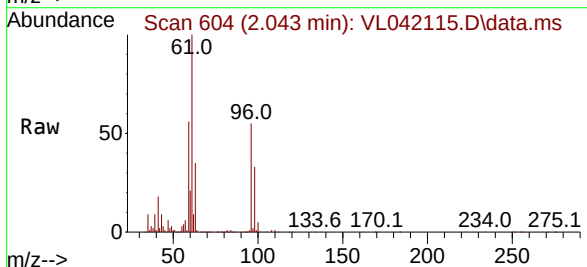
Tgt Ion: 96 Resp: 60058

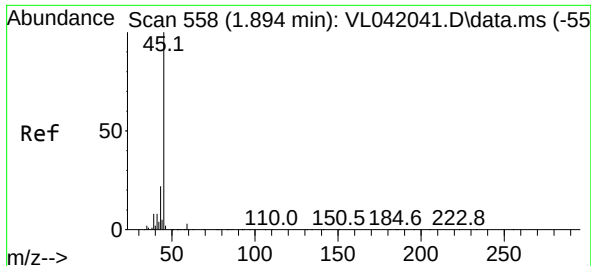
Ion Ratio Lower Upper

96 100

61 182.6 156.0 234.0

98 60.8 49.4 74.2

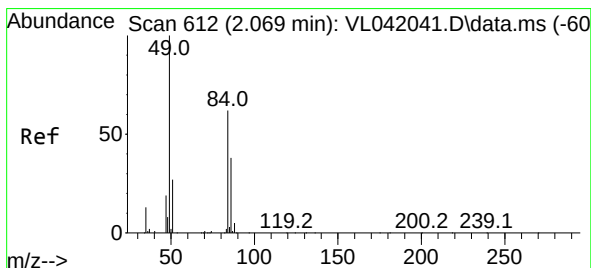
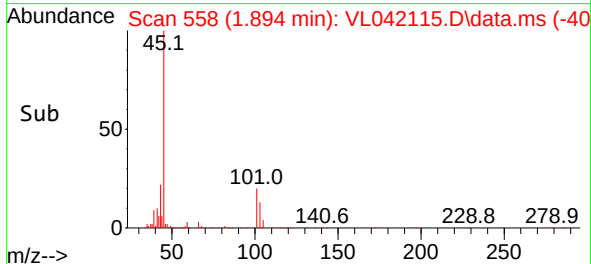
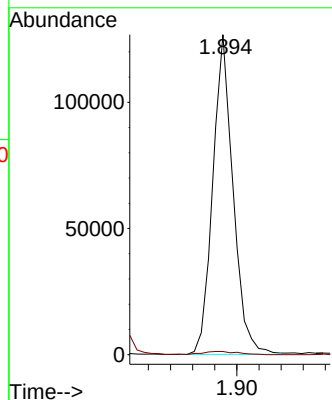
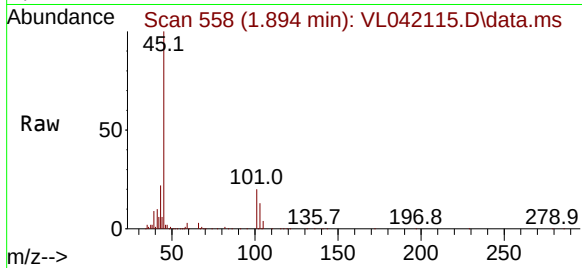




#19
Isopropyl Alcohol
Concen: 9.648 ppbv
RT: 1.894 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

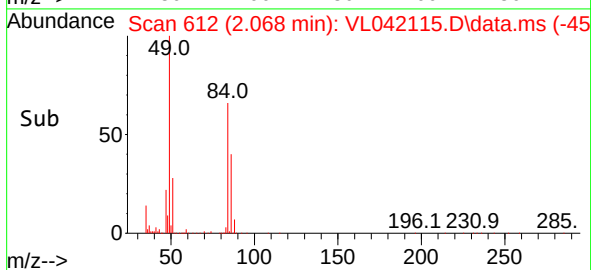
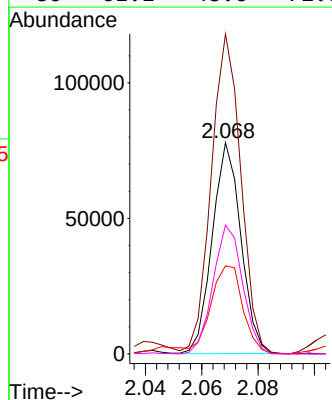
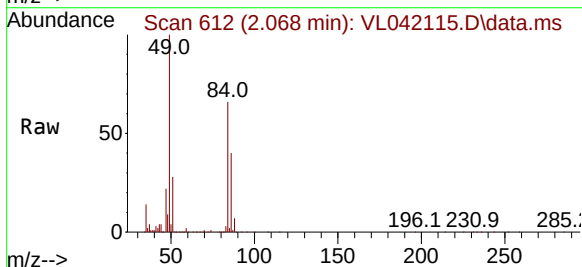
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

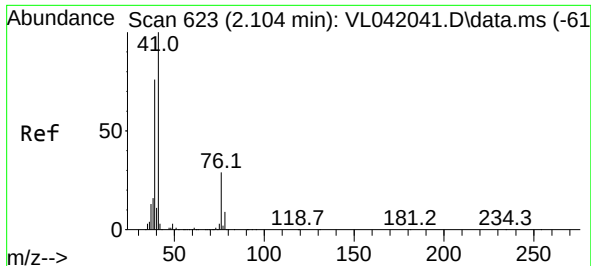
Tgt Ion: 45 Resp: 80799
Ion Ratio Lower Upper
45 100
58 47.5 35.3 52.9



#20
Methylene Chloride
Concen: 9.961 ppbv
RT: 2.068 min Scan# 612
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 84 Resp: 54929
Ion Ratio Lower Upper
84 100
49 151.6 130.0 195.0
51 41.6 37.4 56.0
86 61.1 48.6 72.8

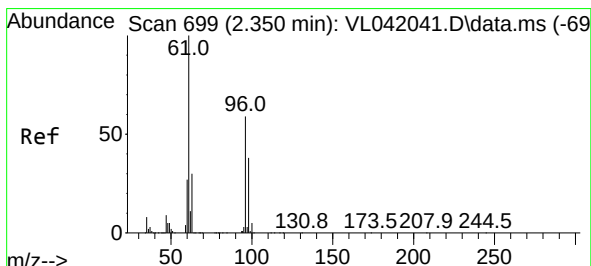
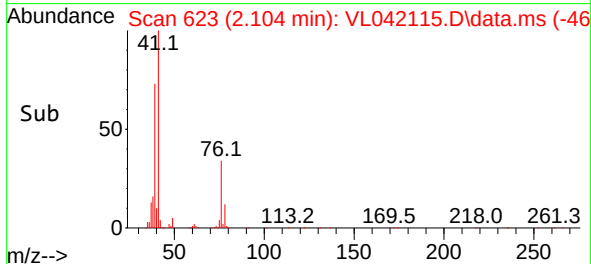
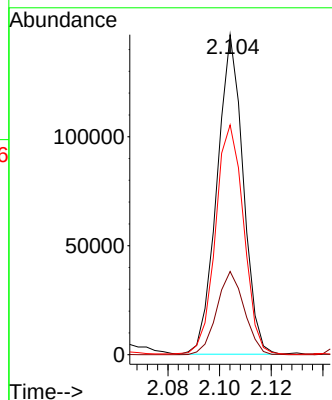
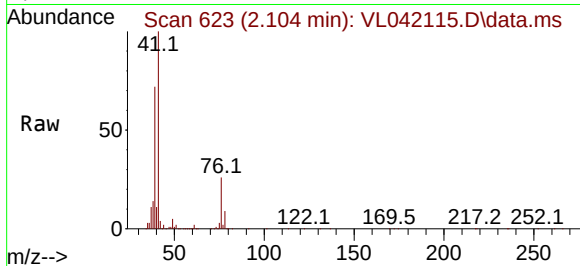




#21
 Allyl Chloride
 Concen: 9.796 ppbv
 RT: 2.104 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: VL042115.D
 Acq: 10 Mar 2025 09:08

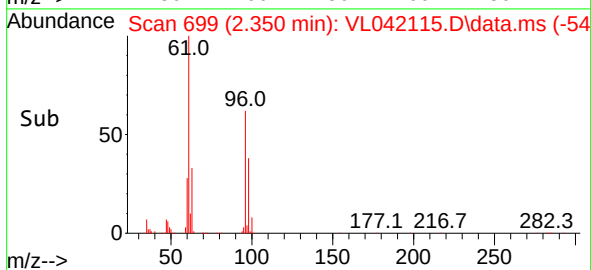
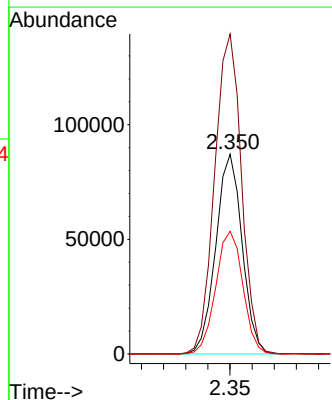
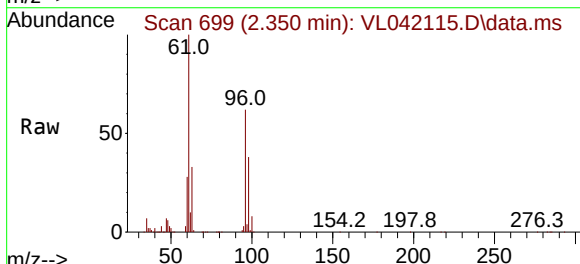
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

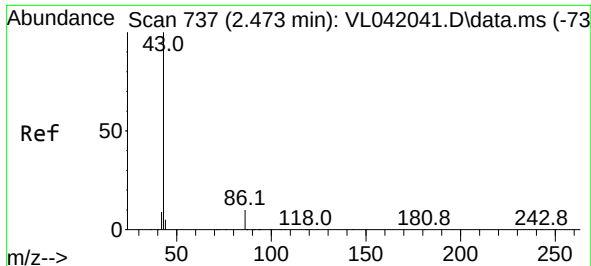
Tgt Ion: 41 Resp: 103183
 Ion Ratio Lower Upper
 41 100
 76 27.3 23.8 35.6
 39 77.0 63.8 95.6



#22
 trans-1,2-Dichloroethene
 Concen: 9.970 ppbv
 RT: 2.350 min Scan# 699
 Delta R.T. -0.000 min
 Lab File: VL042115.D
 Acq: 10 Mar 2025 09:08

Tgt Ion: 96 Resp: 72057
 Ion Ratio Lower Upper
 96 100
 61 160.3 136.6 205.0
 98 61.5 51.8 77.6

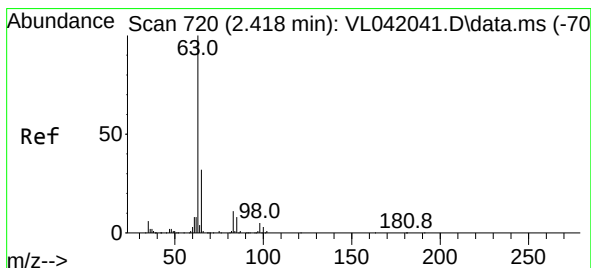
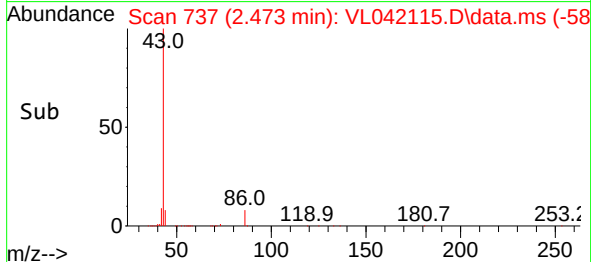
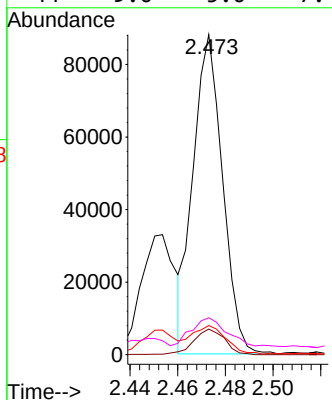
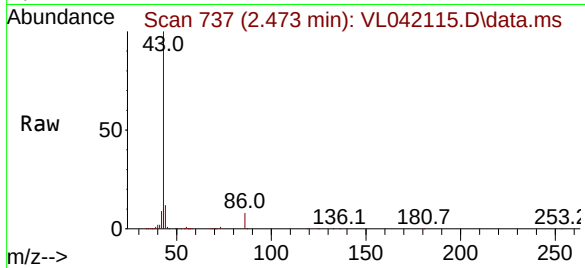




#23
 Vinyl Acetate
 Concen: 7.358 ppbv
 RT: 2.473 min Scan# 71
 Delta R.T. -0.000 min
 Lab File: VL042115.D
 Acq: 10 Mar 2025 09:08

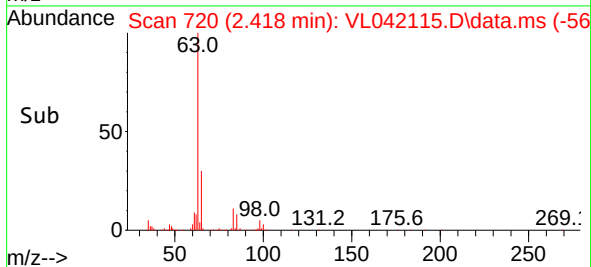
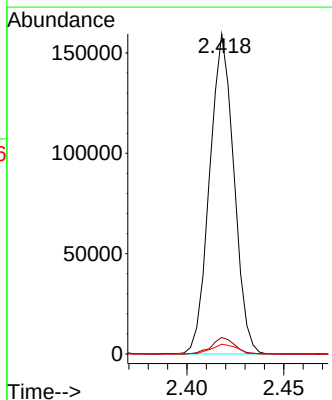
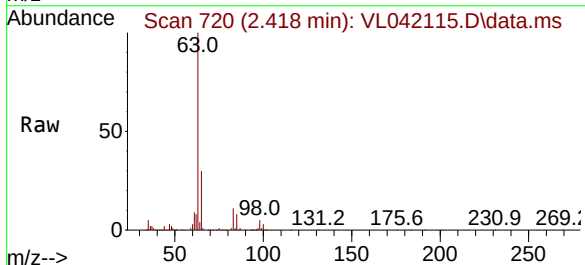
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010

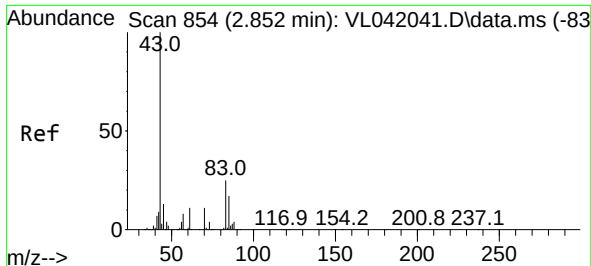
Tgt Ion:	43	Resp:	75424
Ion	Ratio	Lower	Upper
43	100		
86	8.0	7.0	10.4
42	8.8	7.6	11.4
44	9.0	5.0	7.4



#24
 1,1-Dichloroethane
 Concen: 10.354 ppbv
 RT: 2.418 min Scan# 720
 Delta R.T. -0.000 min
 Lab File: VL042115.D
 Acq: 10 Mar 2025 09:08

Tgt Ion:	63	Resp:	139243
Ion	Ratio	Lower	Upper
63	100		
98	5.1	2.4	7.2
100	3.0	1.7	5.0

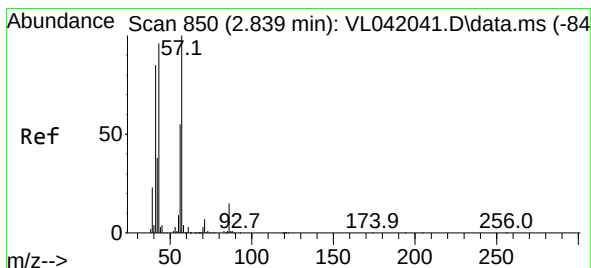
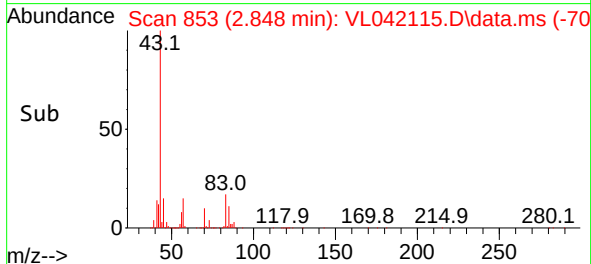
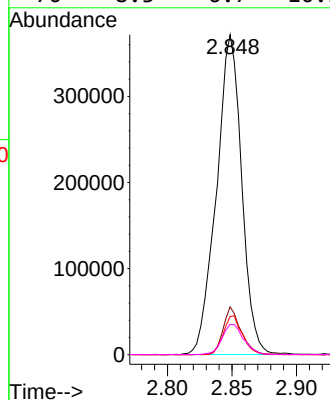
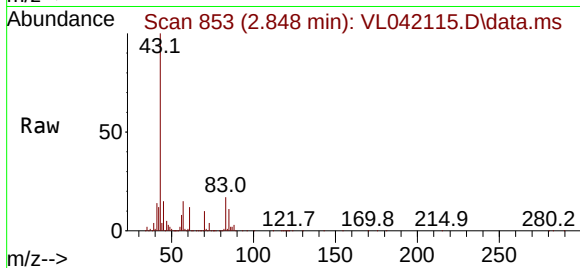




#25
Ethyl Acetate
Concen: 8.638 ppbv
RT: 2.848 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

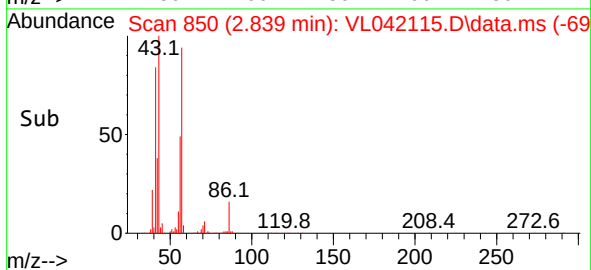
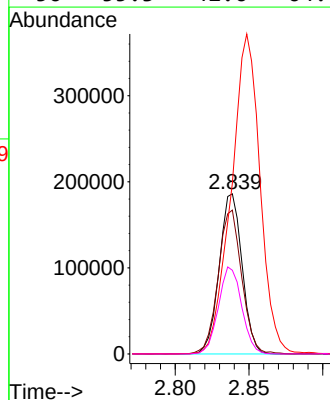
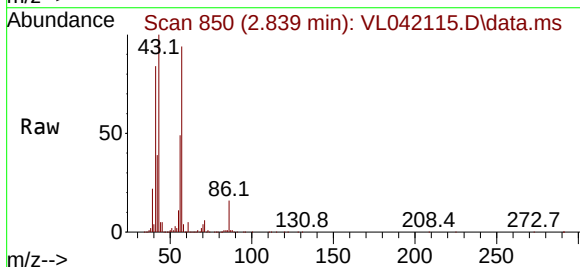
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

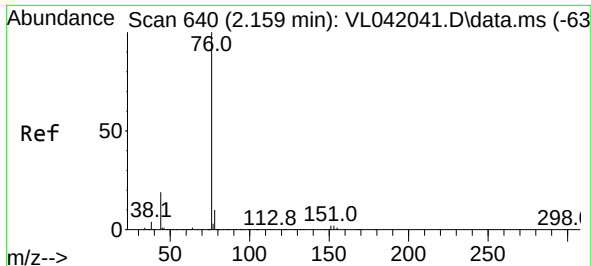
Tgt Ion:	43	Resp:	504073
Ion	Ratio	Lower	Upper
43	100		
45	10.5	8.1	12.1
61	9.3	7.2	10.8
70	8.3	6.7	10.1



#26
Hexane
Concen: 8.485 ppbv
RT: 2.839 min Scan# 850
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion:	57	Resp:	200177
Ion	Ratio	Lower	Upper
57	100		
41	93.5	70.6	106.0
43	252.6	199.4	299.0
56	55.3	42.6	64.0

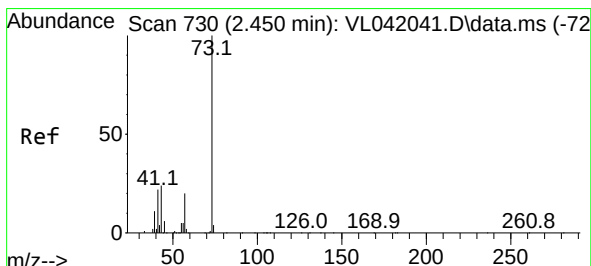
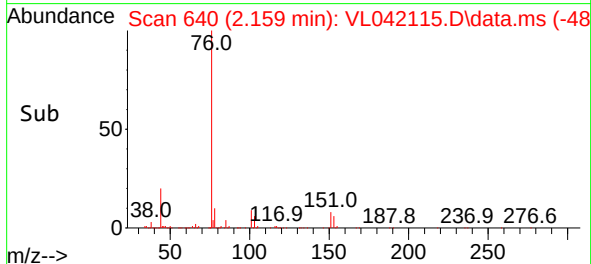
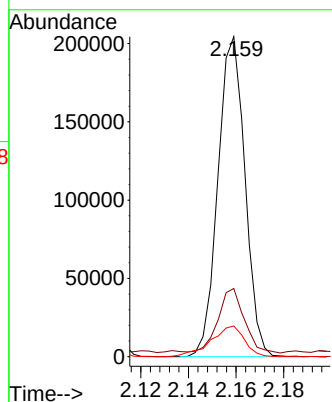
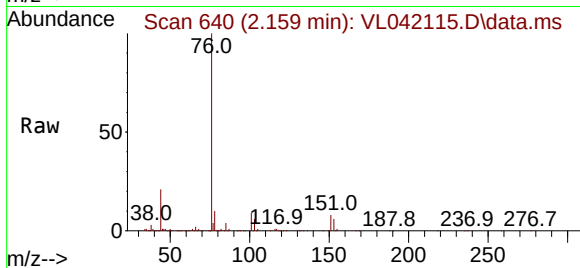




#27
Carbon Disulfide
Concen: 10.074 ppbv
RT: 2.159 min Scan# 640
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

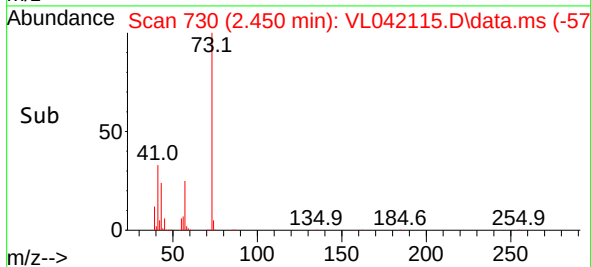
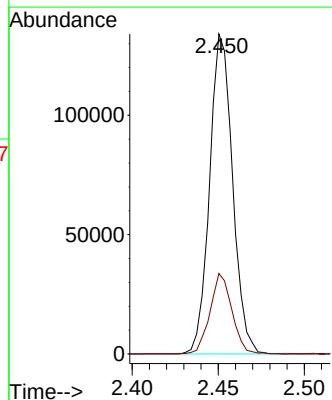
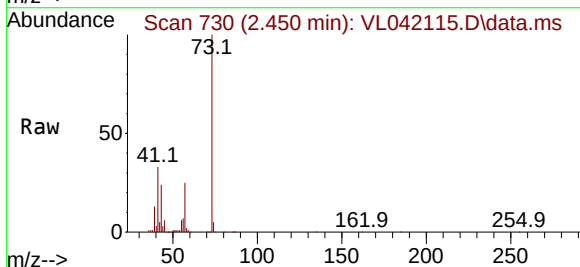
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

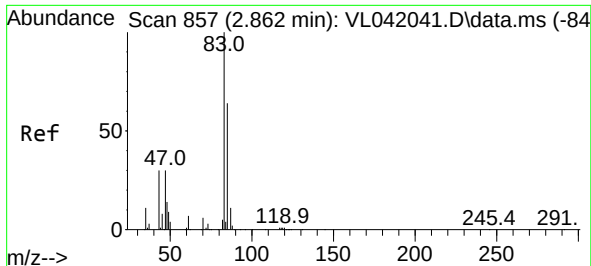
Tgt Ion: 76 Resp: 161105
Ion Ratio Lower Upper
76 100
44 19.9 16.2 24.2
78 11.9 9.4 14.0



#28
Methyl tert-Butyl Ether
Concen: 10.593 ppbv
RT: 2.450 min Scan# 730
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 73 Resp: 124414
Ion Ratio Lower Upper
73 100
57 24.2 17.7 26.5





#29

Chloroform

Concen: 8.771 ppbv

RT: 2.861 min Scan# 81

Delta R.T. -0.000 min

Lab File: VL042115.D

Acq: 10 Mar 2025 09:08

Instrument :

MSVOA_L

ClientSampleId :

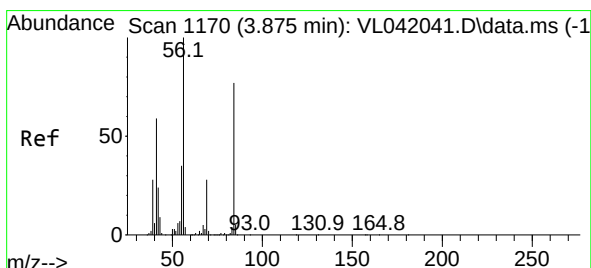
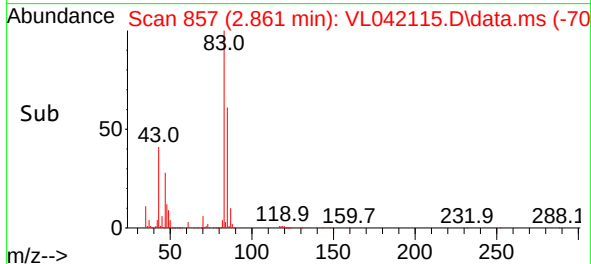
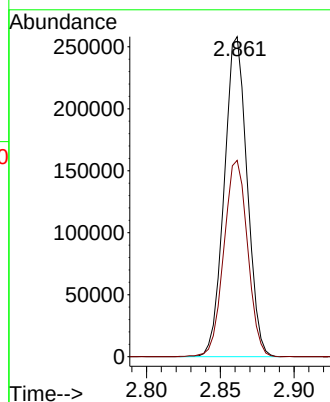
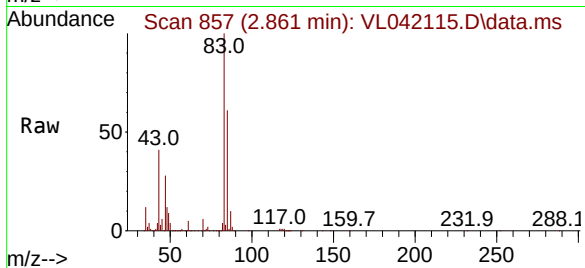
VSTDCCC010

Tgt Ion: 83 Resp: 278501

Ion Ratio Lower Upper

83 100

85 61.3 51.2 76.8



#30

Cyclohexane

Concen: 8.072 ppbv

RT: 3.874 min Scan# 1170

Delta R.T. -0.000 min

Lab File: VL042115.D

Acq: 10 Mar 2025 09:08

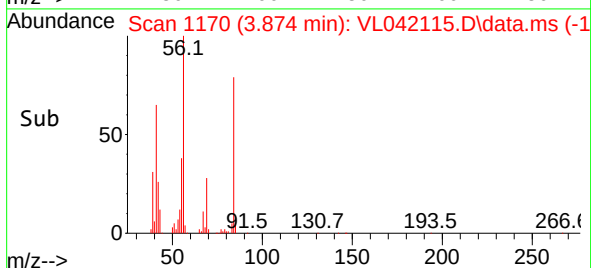
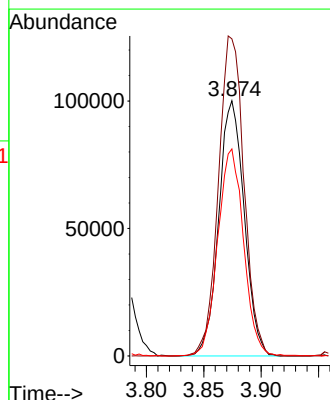
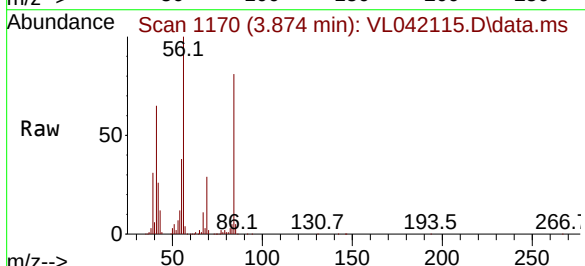
Tgt Ion: 84 Resp: 154573

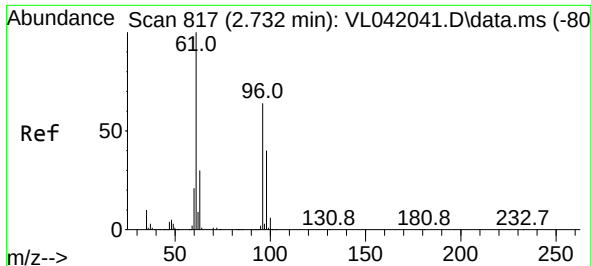
Ion Ratio Lower Upper

84 100

56 125.8 101.5 152.3

41 82.4 62.6 93.8

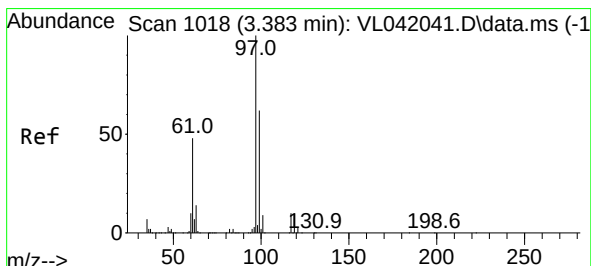
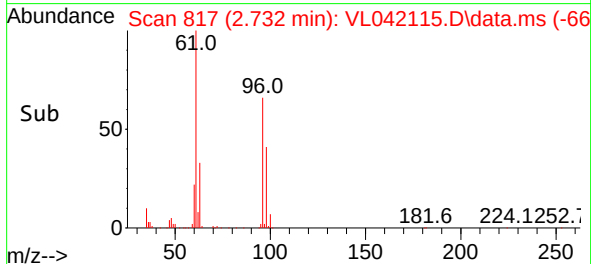
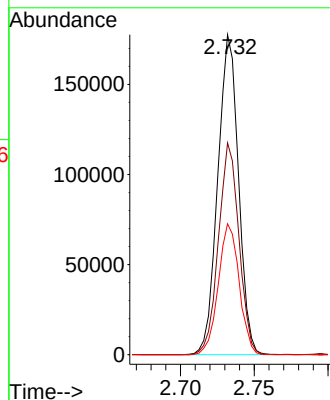
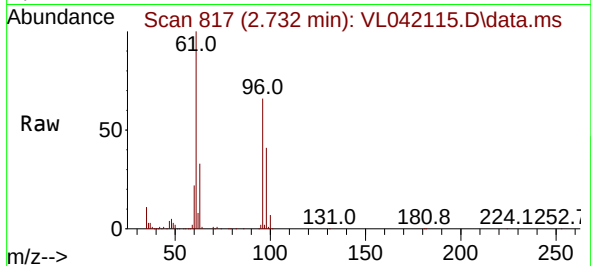




#31
 cis-1,2-Dichloroethene
 Concen: 7.774 ppbv
 RT: 2.732 min Scan# 817
 Delta R.T. -0.000 min
 Lab File: VL042115.D
 Acq: 10 Mar 2025 09:08

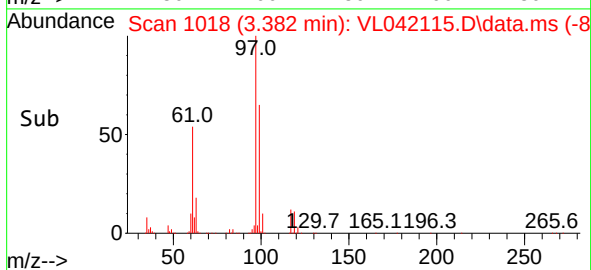
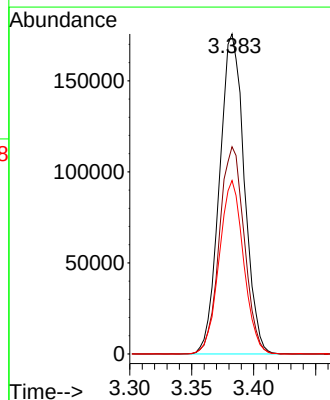
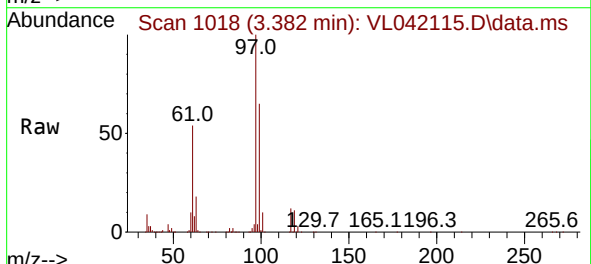
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

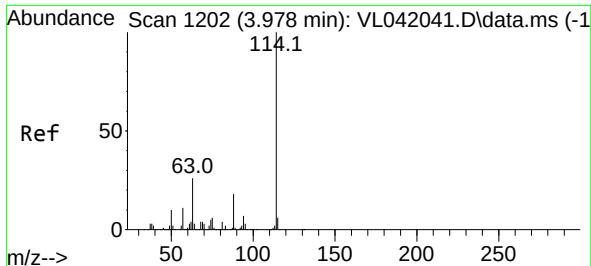
Tgt Ion: 61 Resp: 173603
 Ion Ratio Lower Upper
 61 100
 96 66.2 51.5 77.3
 98 40.9 32.0 48.0



#32
 1,1,1-Trichloroethane
 Concen: 7.957 ppbv
 RT: 3.382 min Scan# 1018
 Delta R.T. -0.000 min
 Lab File: VL042115.D
 Acq: 10 Mar 2025 09:08

Tgt Ion: 97 Resp: 245078
 Ion Ratio Lower Upper
 97 100
 99 65.1 49.8 74.6
 61 53.5 38.9 58.3





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.975 min Scan# 11

Delta R.T. -0.003 min

Lab File: VL042115.D

Acq: 10 Mar 2025 09:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

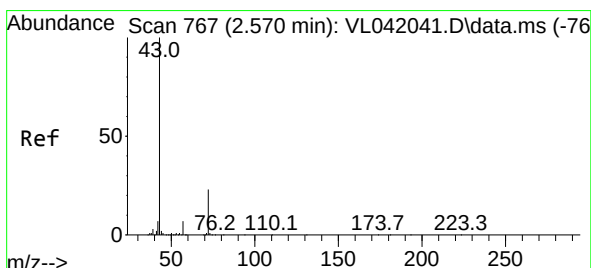
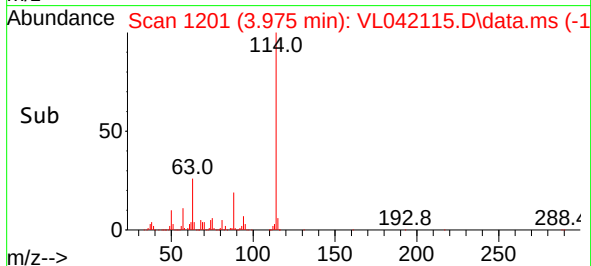
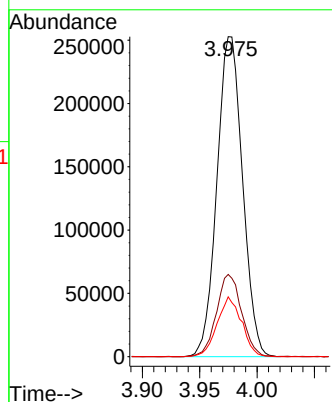
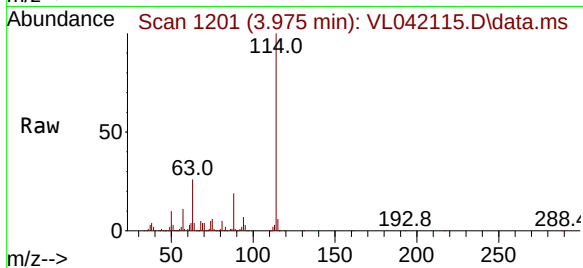
Tgt Ion:114 Resp: 392891

Ion Ratio Lower Upper

114 100

63 25.2 20.1 30.1

88 17.8 14.3 21.5



#34

2-Butanone

Concen: 9.161 ppbv

RT: 2.570 min Scan# 767

Delta R.T. -0.000 min

Lab File: VL042115.D

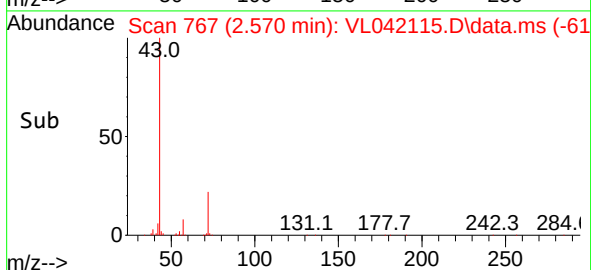
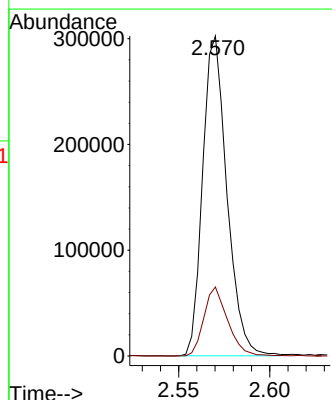
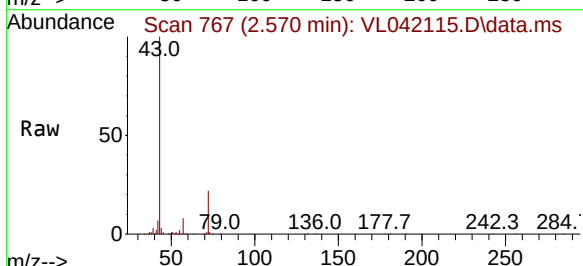
Acq: 10 Mar 2025 09:08

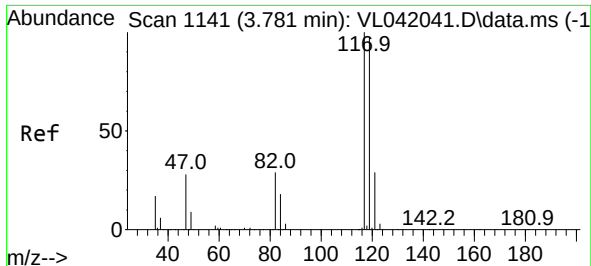
Tgt Ion: 43 Resp: 280396

Ion Ratio Lower Upper

43 100

72 21.2 18.5 27.7

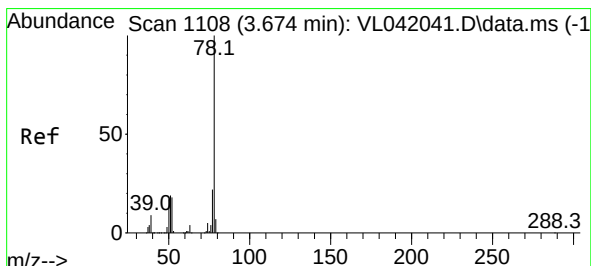
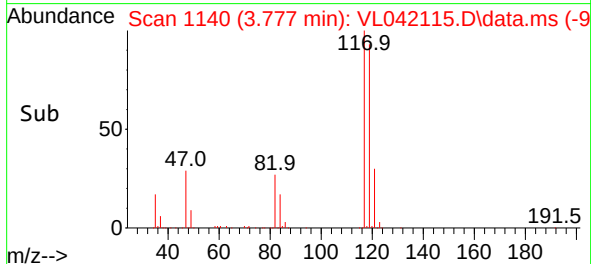
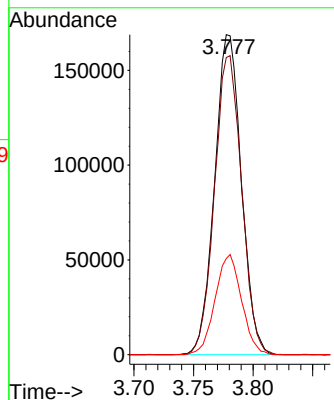
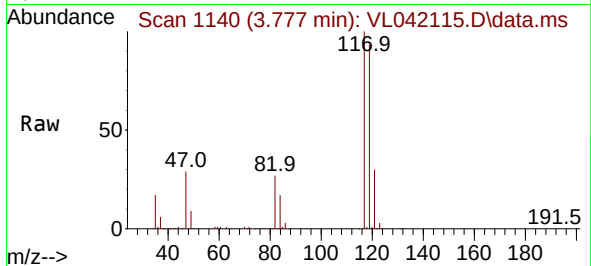




#35
Carbon Tetrachloride
Concen: 9.725 ppbv
RT: 3.777 min Scan# 1140
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

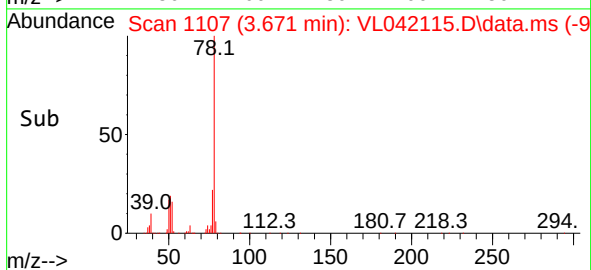
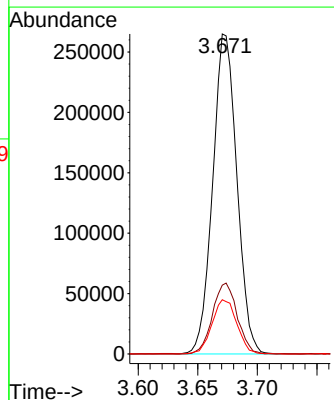
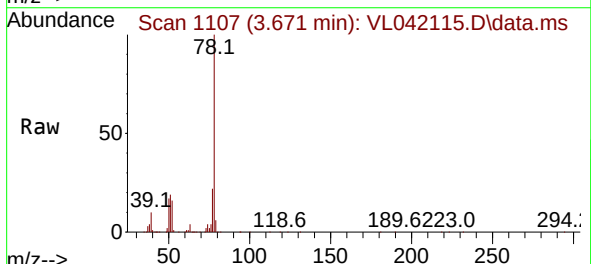
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

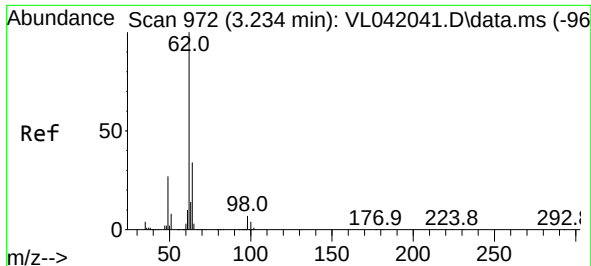
Tgt Ion:117 Resp: 263471
Ion Ratio Lower Upper
117 100
119 92.8 77.8 116.8
121 30.1 23.4 35.0



#36
Benzene
Concen: 9.084 ppbv
RT: 3.671 min Scan# 1107
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 78 Resp: 373628
Ion Ratio Lower Upper
78 100
77 21.5 17.7 26.5
50 17.0 13.9 20.9





#37

1,2-Dichloroethane

Concen: 8.665 ppbv

RT: 3.234 min Scan# 91

Delta R.T. -0.000 min

Lab File: VL042115.D

Acq: 10 Mar 2025 09:08

Instrument :

MSVOA_L

ClientSampleId :

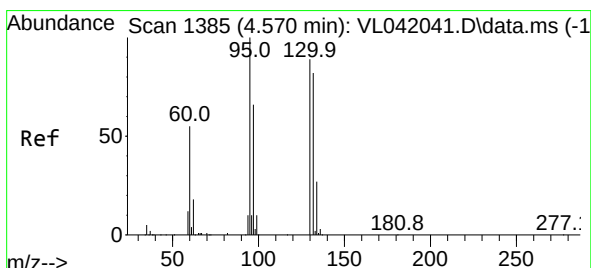
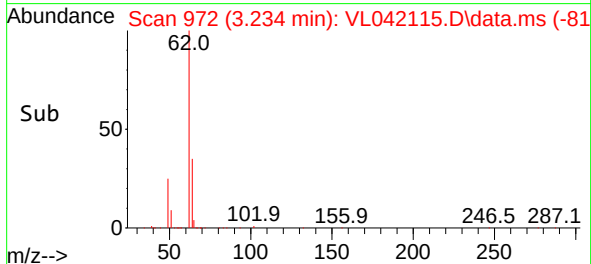
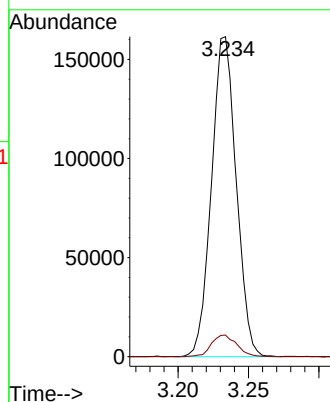
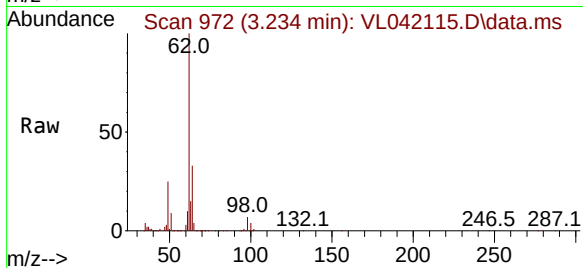
VSTDCCC010

Tgt Ion: 62 Resp: 197592

Ion Ratio Lower Upper

62 100

98 7.0 5.7 8.5



#38

Trichloroethene

Concen: 8.419 ppbv

RT: 4.567 min Scan# 1384

Delta R.T. -0.003 min

Lab File: VL042115.D

Acq: 10 Mar 2025 09:08

Tgt Ion:130 Resp: 141399

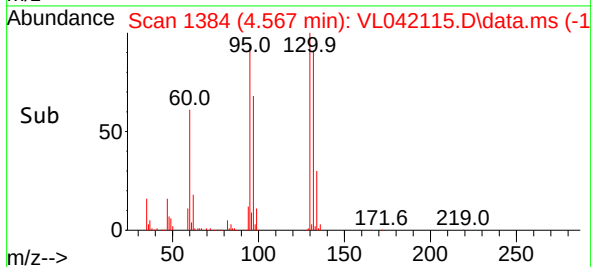
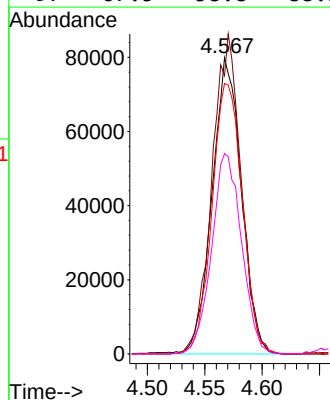
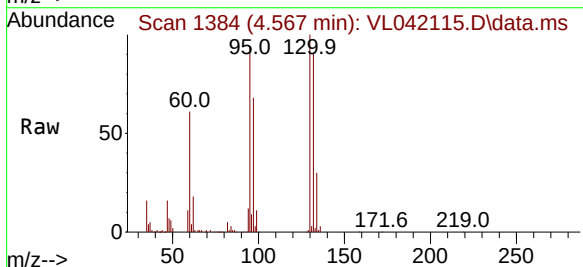
Ion Ratio Lower Upper

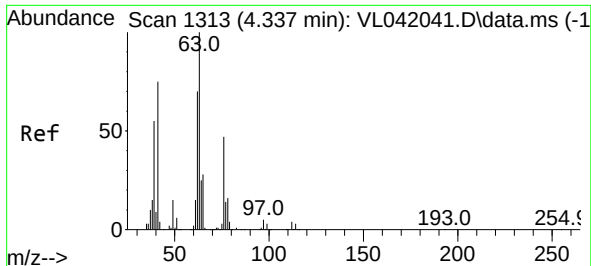
130 100

95 93.7 89.5 134.3

132 91.2 73.8 110.6

97 67.5 58.8 88.2





#39

1,2-Dichloropropane

Concen: 9.199 ppbv

RT: 4.331 min Scan# 1311

Delta R.T. -0.007 min

Lab File: VL042115.D

Acq: 10 Mar 2025 09:08

Instrument :

MSVOA_1

ClientSampleId :

VSTDCCC010

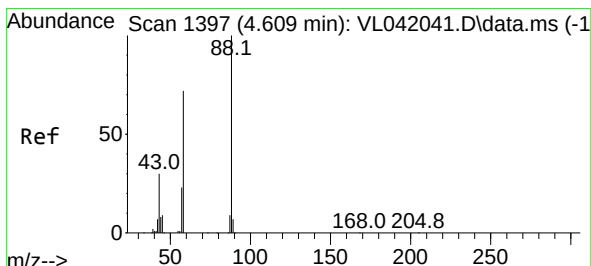
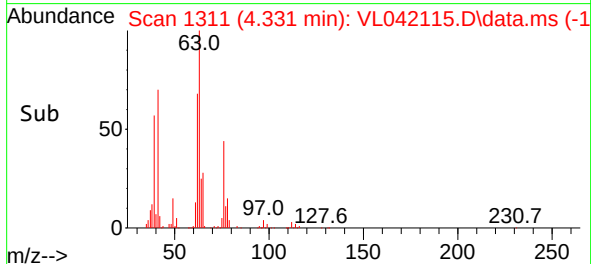
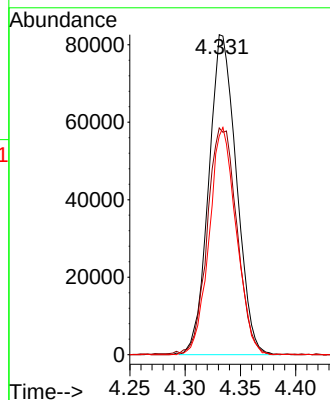
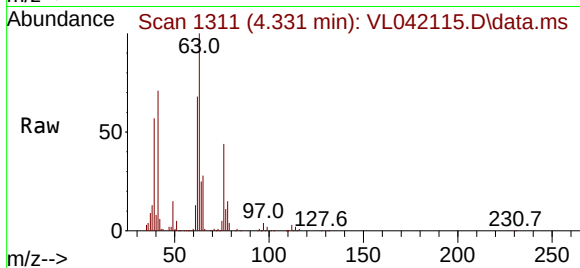
Tgt Ion: 63 Resp: 143609

Ion Ratio Lower Upper

63 100

41 70.7 60.1 90.1

62 68.2 55.8 83.8



#40

1,4-Dioxane

Concen: 9.311 ppbv

RT: 4.609 min Scan# 1397

Delta R.T. -0.000 min

Lab File: VL042115.D

Acq: 10 Mar 2025 09:08

Tgt Ion: 88 Resp: 66354

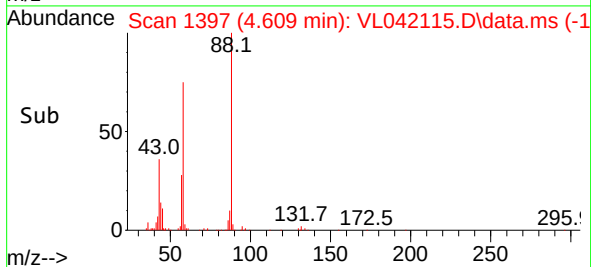
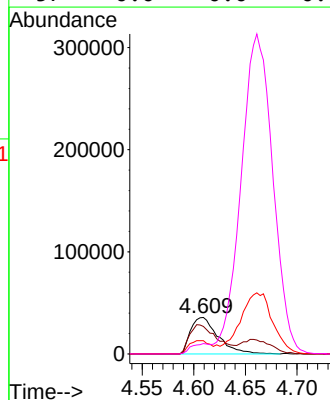
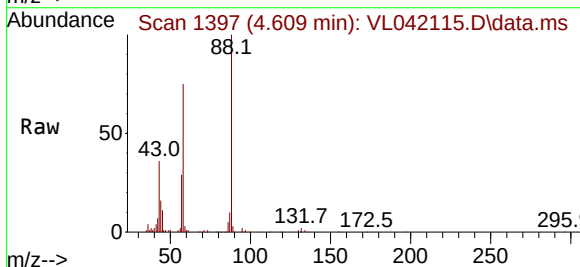
Ion Ratio Lower Upper

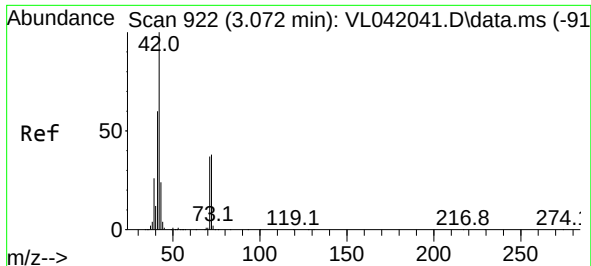
88 100

58 80.5 62.6 94.0

43 28.7 0.0 0.0#

57 0.0 0.0 0.0

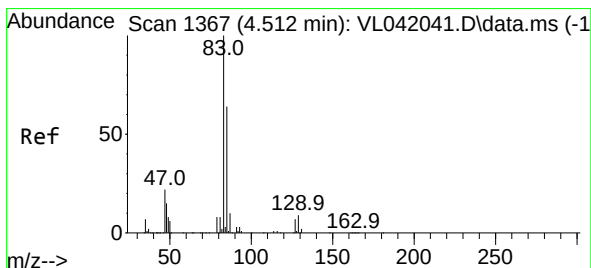
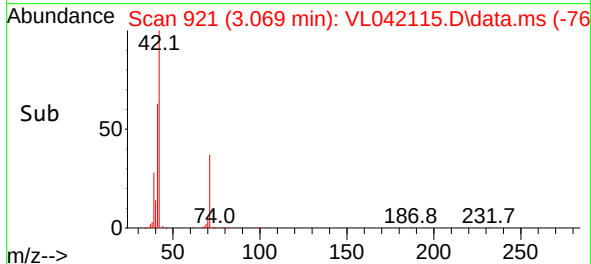
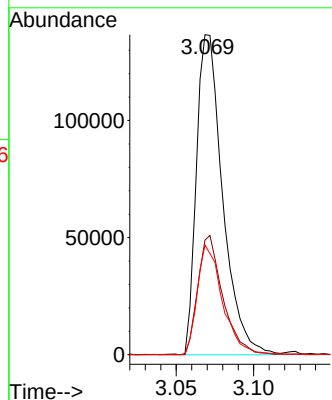
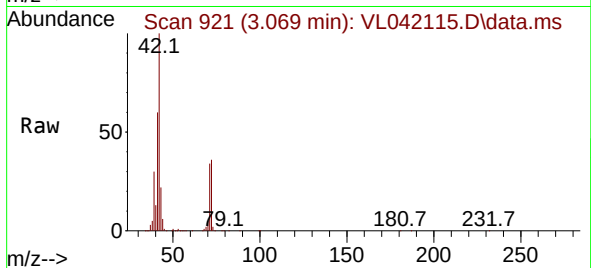




#41
Tetrahydrofuran
Concen: 8.893 ppbv
RT: 3.069 min Scan# 91
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

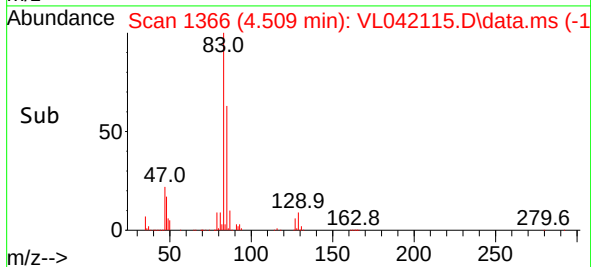
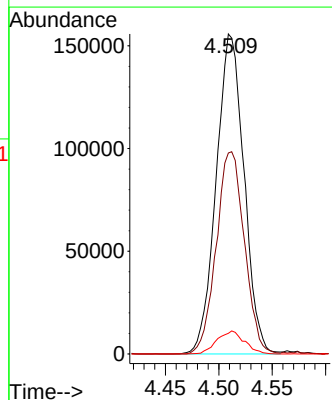
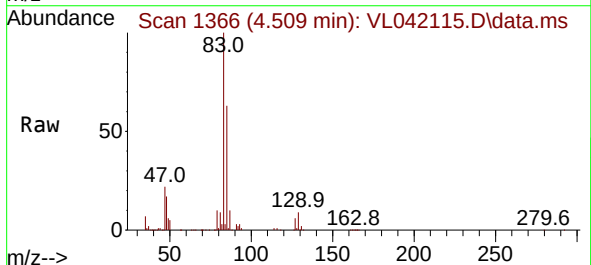
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

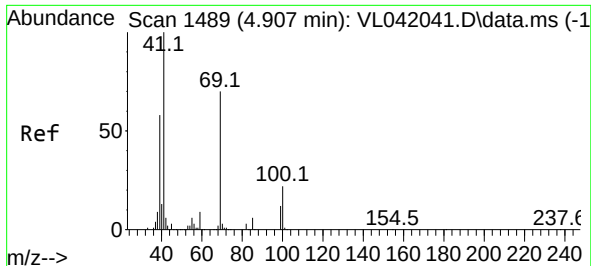
Tgt Ion: 42 Resp: 160836
Ion Ratio Lower Upper
42 100
72 35.5 30.2 45.2
71 33.0 28.2 42.4



#42
Bromodichloromethane
Concen: 9.180 ppbv
RT: 4.509 min Scan# 1366
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 83 Resp: 282060
Ion Ratio Lower Upper
83 100
85 62.7 51.4 77.2
127 6.5 5.8 8.6

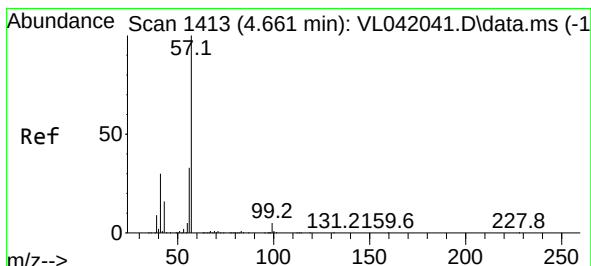
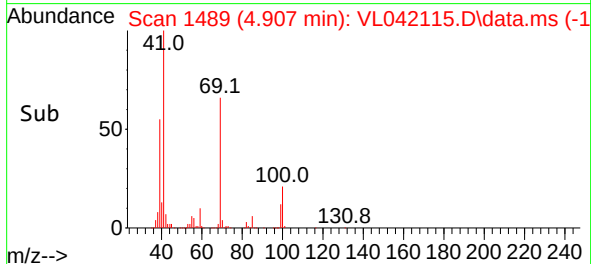
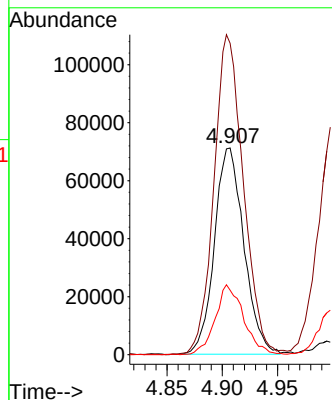
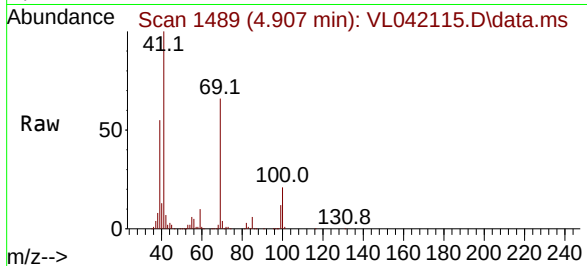




#43
Methyl Methacrylate
Concen: 8.207 ppbv
RT: 4.907 min Scan# 1489
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

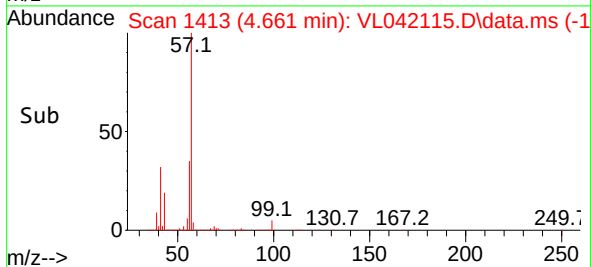
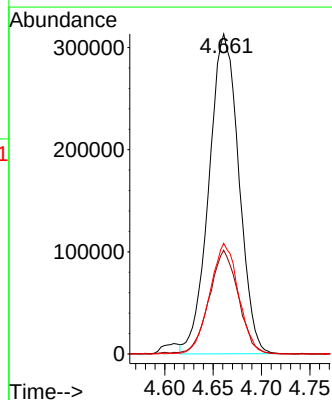
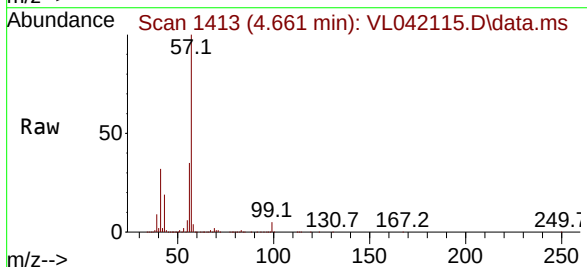
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

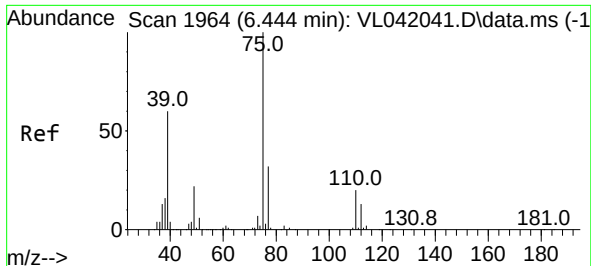
Tgt Ion: 69 Resp: 131818
Ion Ratio Lower Upper
69 100
41 155.0 118.2 177.4
100 32.8 27.0 40.4



#44
2,2,4-Trimethylpentane
Concen: 9.271 ppbv
RT: 4.661 min Scan# 1413
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 57 Resp: 672958
Ion Ratio Lower Upper
57 100
41 32.1 24.4 36.6
56 33.4 26.5 39.7





#45

t-1,3-Dichloropropene

Concen: 7.547 ppbv

RT: 6.441 min Scan# 1964

Delta R.T. -0.003 min

Lab File: VL042115.D

Acq: 10 Mar 2025 09:08

Instrument :

MSVOA_L

ClientSampleId :

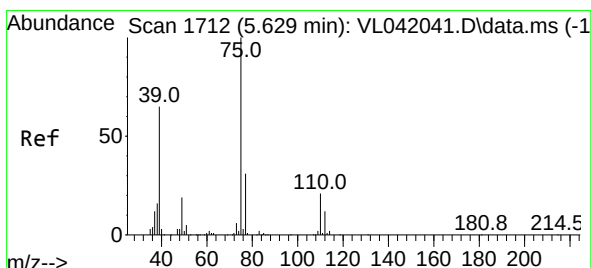
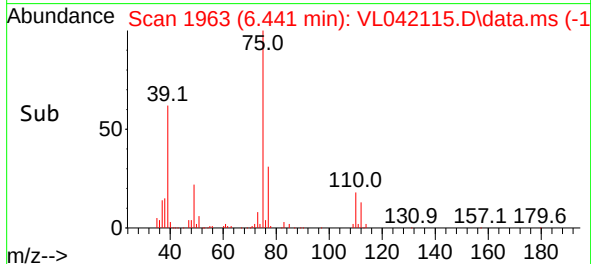
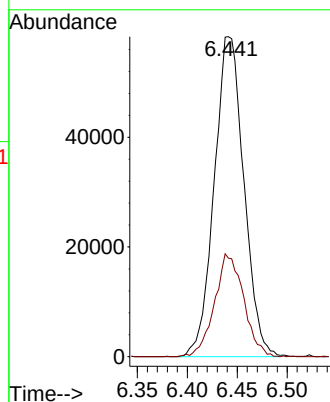
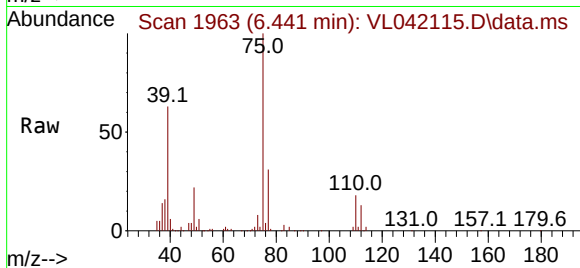
VSTDCCC010

Tgt Ion: 75 Resp: 120441

Ion Ratio Lower Upper

75 100

77 30.8 25.9 38.9



#46

cis-1,3-Dichloropropene

Concen: 8.174 ppbv

RT: 5.625 min Scan# 1711

Delta R.T. -0.003 min

Lab File: VL042115.D

Acq: 10 Mar 2025 09:08

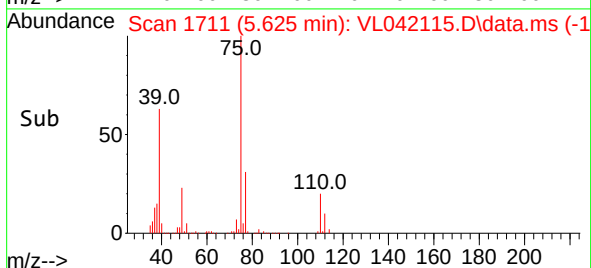
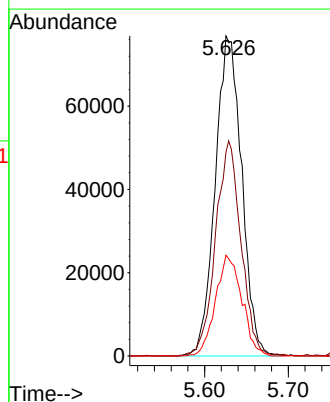
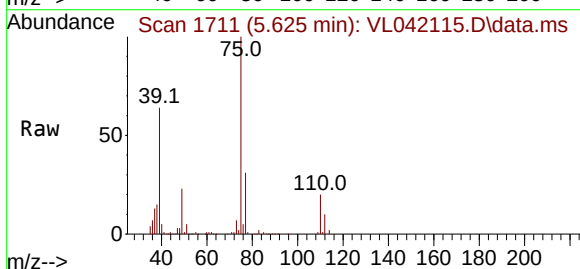
Tgt Ion: 75 Resp: 168796

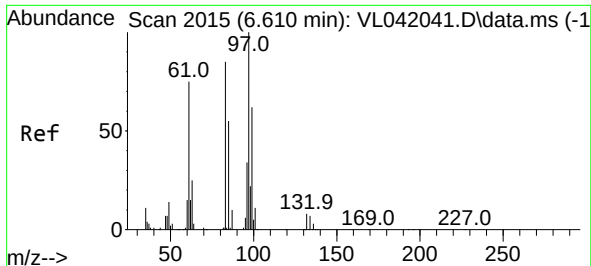
Ion Ratio Lower Upper

75 100

39 63.4 51.9 77.9

77 31.4 24.9 37.3





#47

1,1,2-Trichloroethane

Concen: 9.147 ppbv m

RT: 6.603 min Scan# 2015

Delta R.T. -0.007 min

Lab File: VL042115.D

Acq: 10 Mar 2025 09:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 97 Resp: 144966

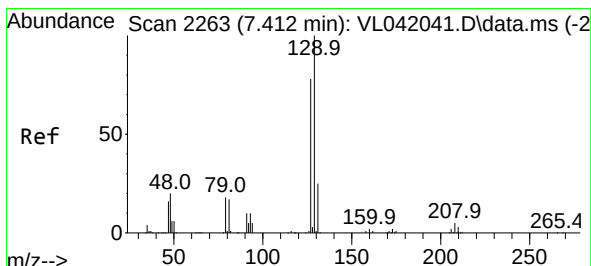
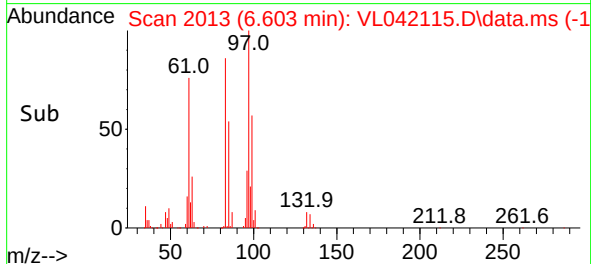
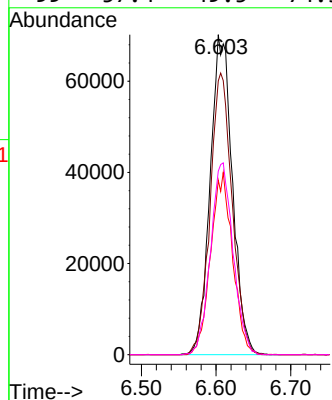
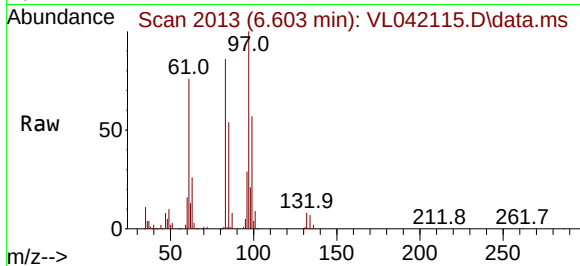
Ion Ratio Lower Upper

97 100

83 85.6 68.1 102.1

85 54.5 44.0 66.0

99 57.4 49.5 74.3



#48

Dibromochloromethane

Concen: 9.006 ppbv

RT: 7.406 min Scan# 2261

Delta R.T. -0.007 min

Lab File: VL042115.D

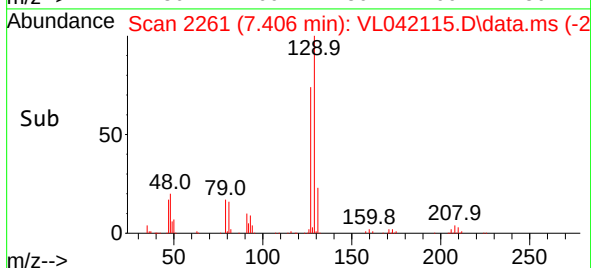
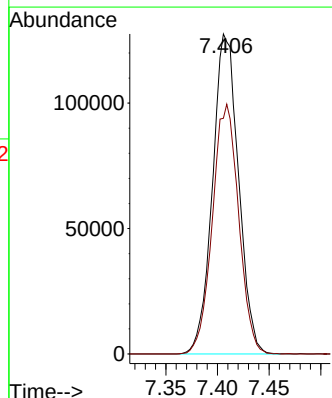
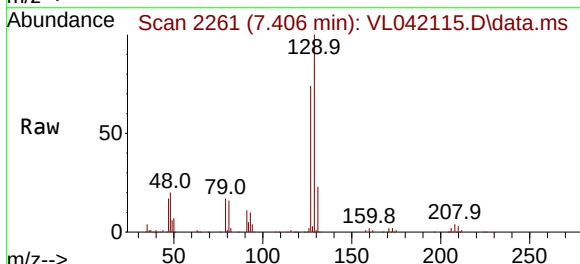
Acq: 10 Mar 2025 09:08

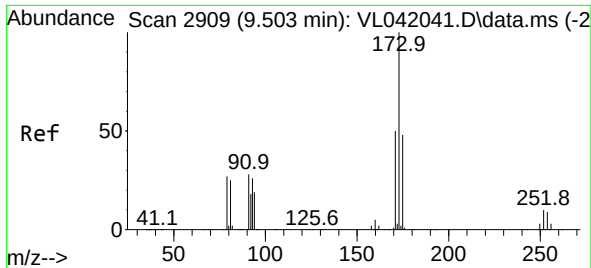
Tgt Ion: 129 Resp: 223556

Ion Ratio Lower Upper

129 100

127 78.7 38.6 115.8

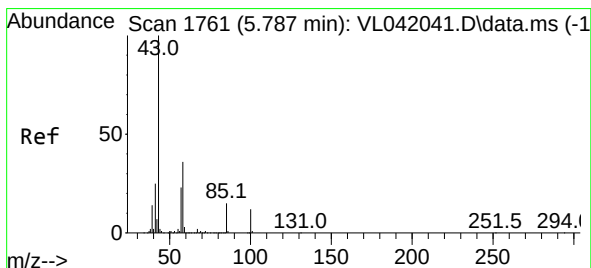
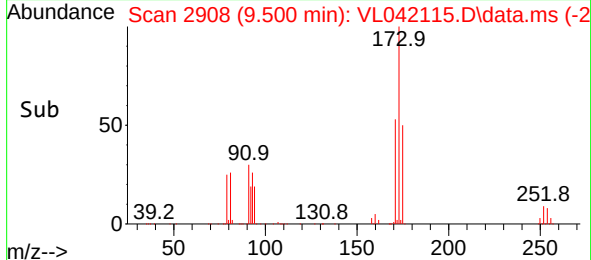
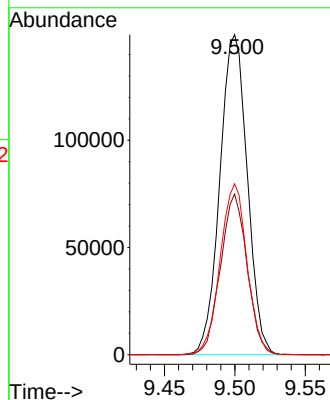
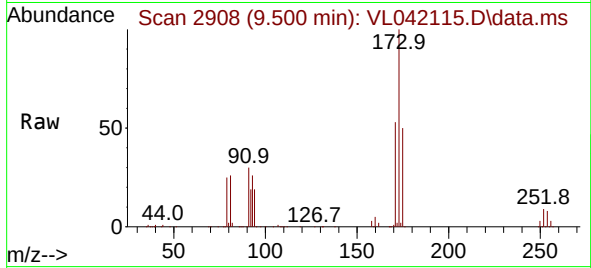




#49
Bromoform
Concen: 9.404 ppbv
RT: 9.500 min Scan# 2909
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

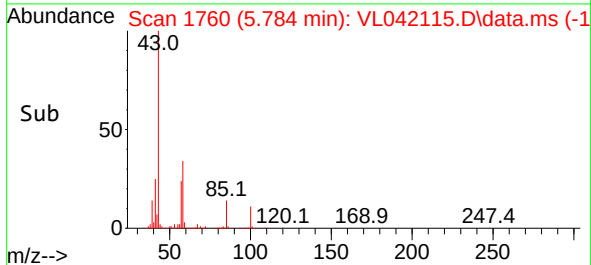
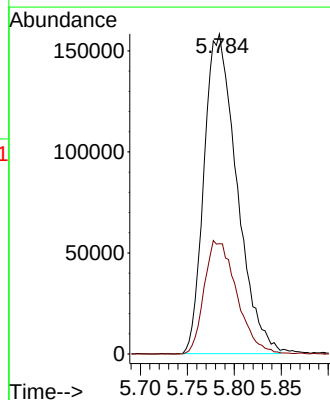
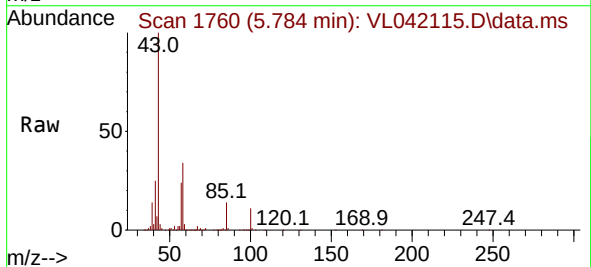
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

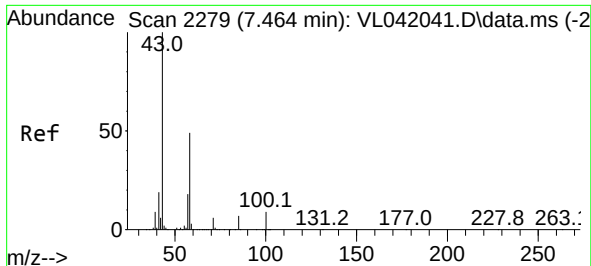
Tgt Ion:173 Resp: 202719
Ion Ratio Lower Upper
173 100
175 48.7 38.3 57.5
171 52.1 40.2 60.2



#50
4-Methyl-2-Pentanone
Concen: 9.703 ppbv
RT: 5.784 min Scan# 1760
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 43 Resp: 384115
Ion Ratio Lower Upper
43 100
58 35.2 29.3 43.9

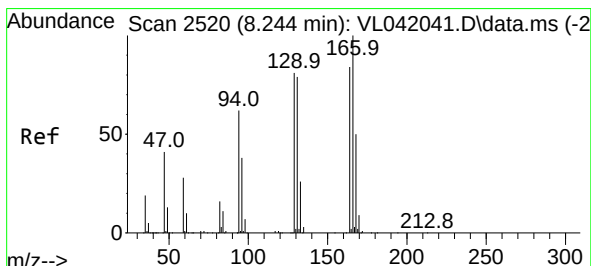
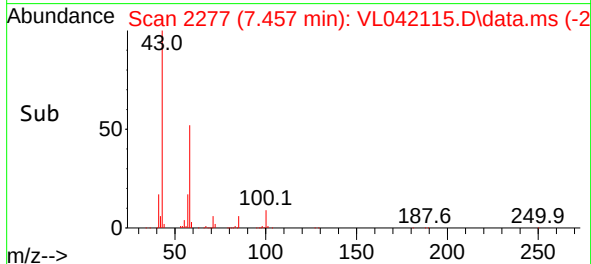
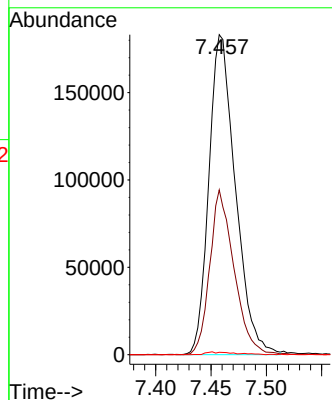
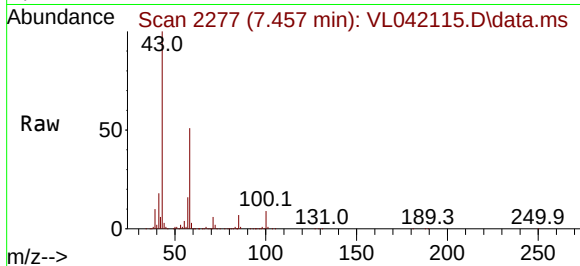




#51
2-Hexanone
Concen: 11.208 ppbv
RT: 7.457 min Scan# 21
Delta R.T. -0.007 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

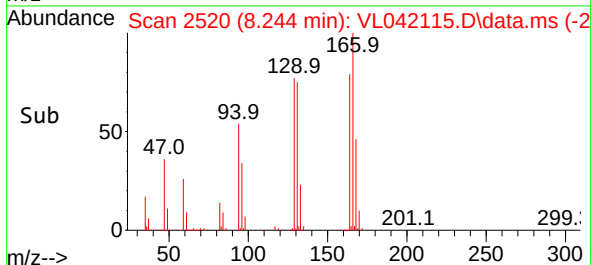
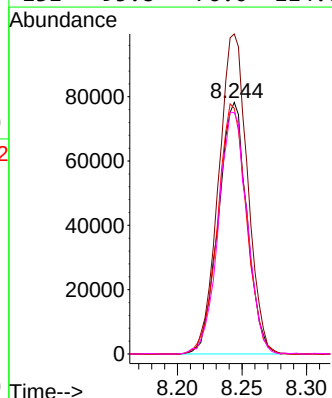
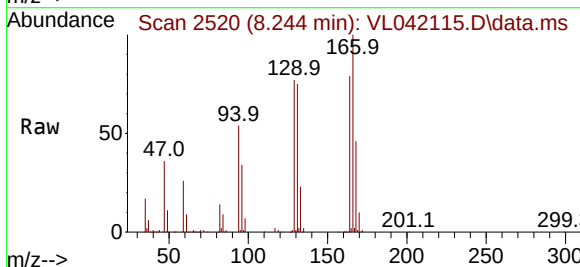
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

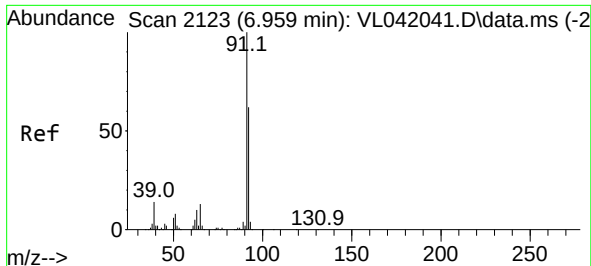
Tgt Ion: 43 Resp: 305375
Ion Ratio Lower Upper
43 100
58 47.2 39.0 58.6
98 1.0 0.1 0.1#



#52
Tetrachloroethene
Concen: 8.529 ppbv
RT: 8.244 min Scan# 2520
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion:164 Resp: 120090
Ion Ratio Lower Upper
164 100
166 127.3 95.7 143.5
129 97.6 77.1 115.7
131 95.8 76.0 114.0

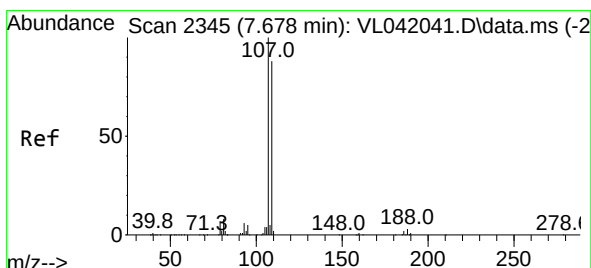
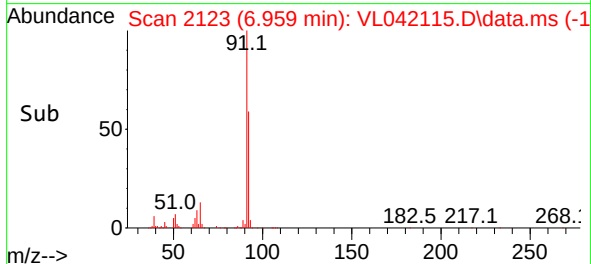
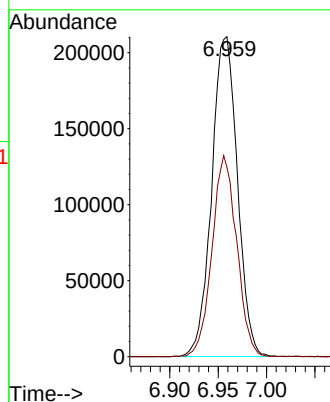
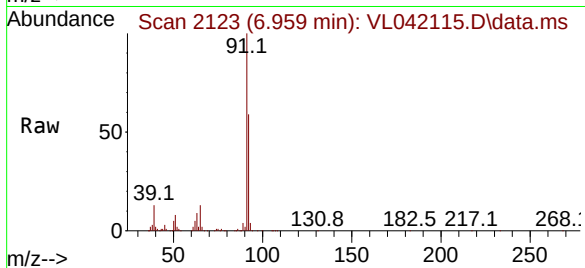




#53
Toluene
Concen: 8.453 ppbv
RT: 6.959 min Scan# 2123
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

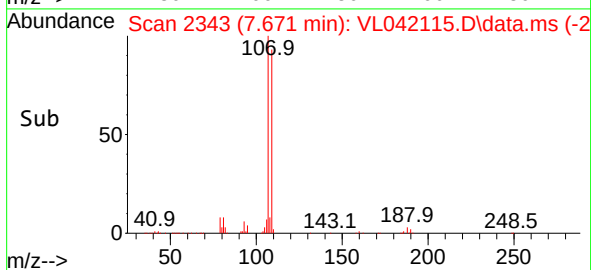
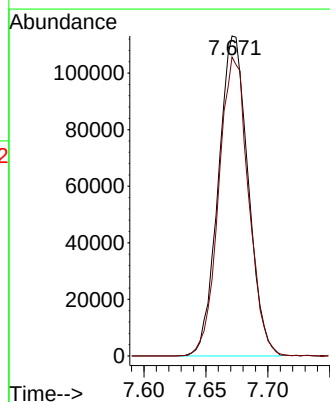
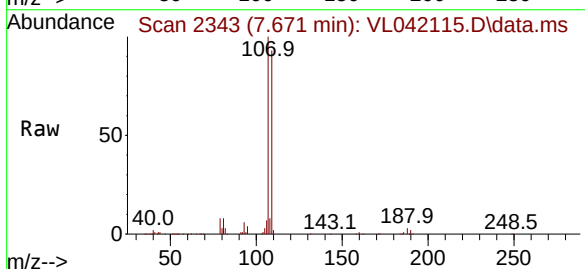
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

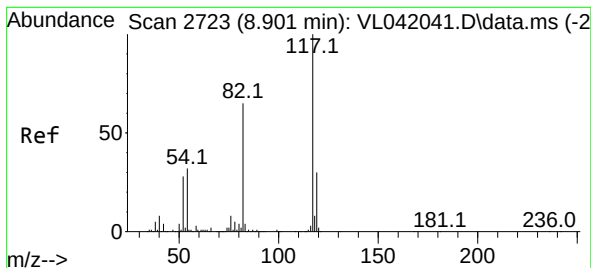
Tgt Ion: 91 Resp: 388571
Ion Ratio Lower Upper
91 100
92 60.5 49.0 73.6



#54
1,2-Dibromoethane
Concen: 8.851 ppbv
RT: 7.671 min Scan# 2343
Delta R.T. -0.007 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 107 Resp: 189652
Ion Ratio Lower Upper
107 100
109 93.3 70.2 105.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.898 min Scan# 21

Delta R.T. -0.003 min

Lab File: VL042115.D

Acq: 10 Mar 2025 09:08

Instrument :

MSVOA_1

ClientSampleId :

VSTDCCC010

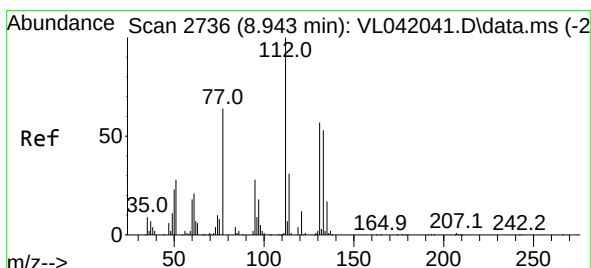
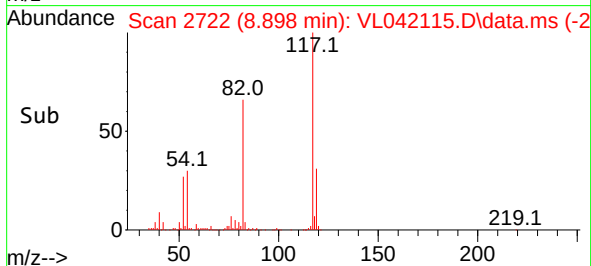
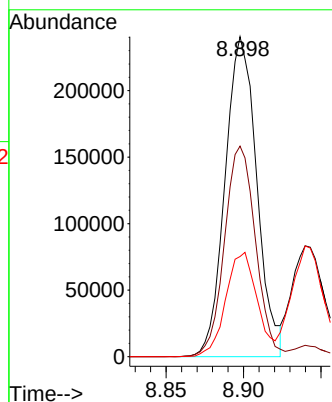
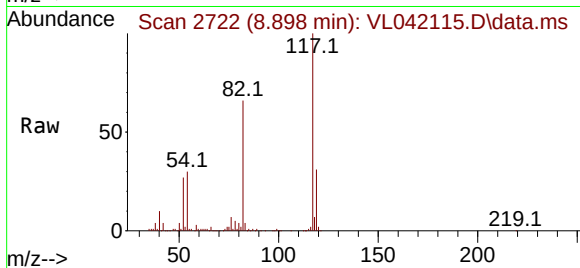
Tgt Ion:117 Resp: 342991

Ion Ratio Lower Upper

117 100

82 67.6 55.0 82.6

119 31.7 25.9 38.9



#56

1,1,1,2-Tetrachloroethane

Concen: 9.542 ppbv

RT: 8.943 min Scan# 2736

Delta R.T. -0.000 min

Lab File: VL042115.D

Acq: 10 Mar 2025 09:08

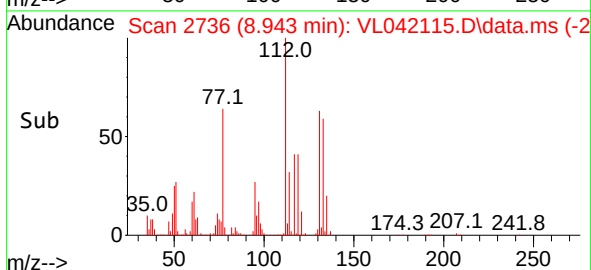
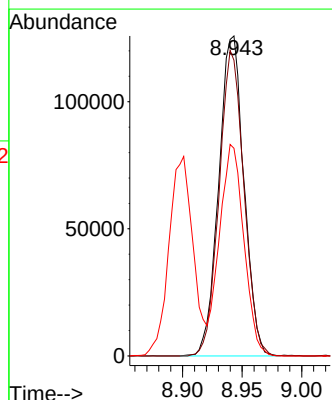
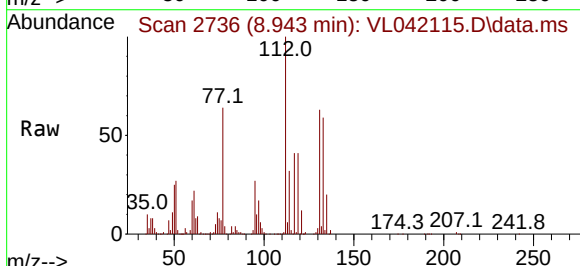
Tgt Ion:131 Resp: 184992

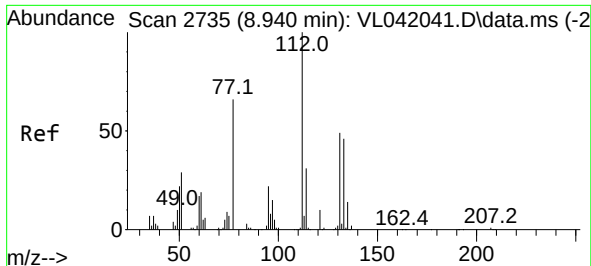
Ion Ratio Lower Upper

131 100

133 93.8 75.8 113.8

119 65.0 52.1 78.1

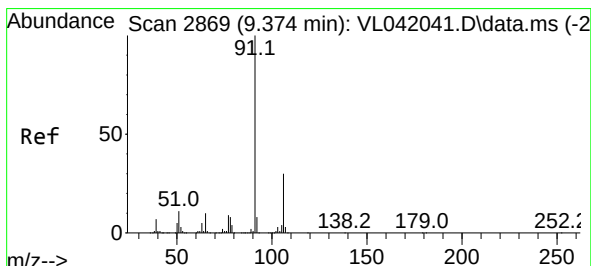
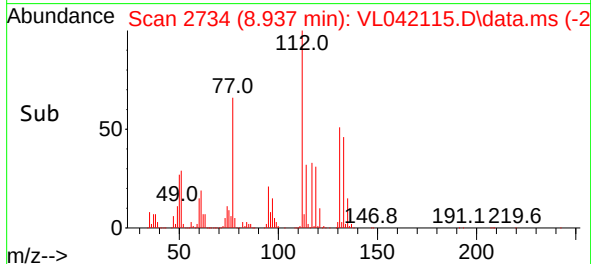
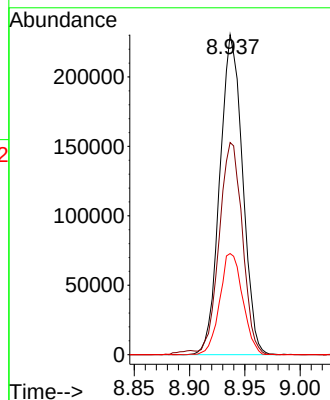
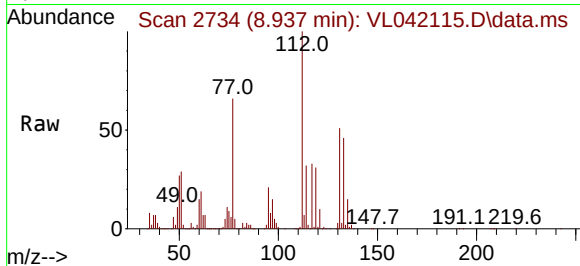




#57
Chlorobenzene
Concen: 9.281 ppbv
RT: 8.937 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

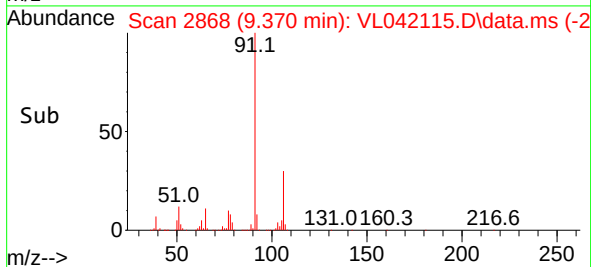
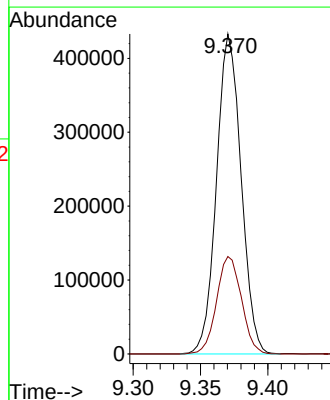
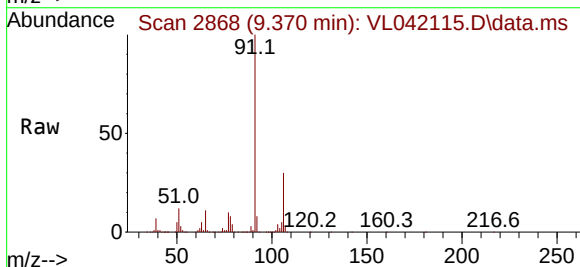
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

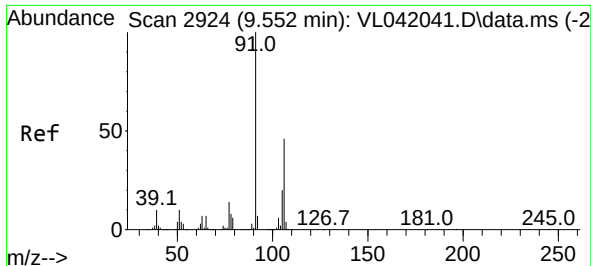
Tgt Ion:112 Resp: 330038
Ion Ratio Lower Upper
112 100
77 66.3 53.4 80.2
114 31.6 28.3 34.5



#58
Ethyl Benzene
Concen: 8.698 ppbv
RT: 9.370 min Scan# 2868
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 91 Resp: 549396
Ion Ratio Lower Upper
91 100
106 30.4 24.2 36.2





#59

m/p-Xylene

Concen: 18.509 ppbv m

RT: 9.564 min Scan# 2924

Delta R.T. 0.013 min

Lab File: VL042115.D

Acq: 10 Mar 2025 09:08

Instrument :

MSVOA_1

ClientSampleId :

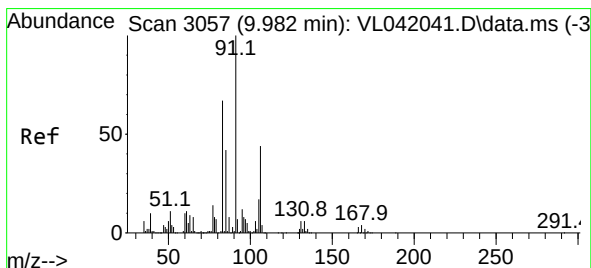
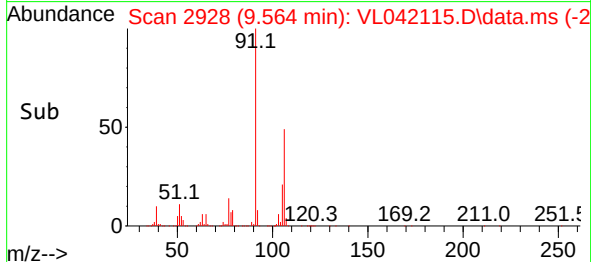
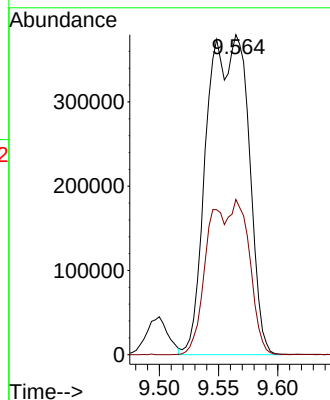
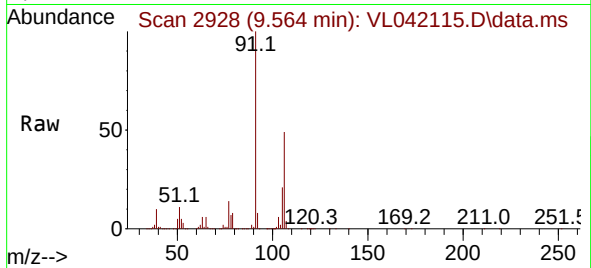
VSTDCCC010

Tgt Ion: 91 Resp: 930397

Ion Ratio Lower Upper

91 100

106 0.0 0.0 0.0



#60

o-Xylene

Concen: 9.232 ppbv

RT: 9.979 min Scan# 3056

Delta R.T. -0.003 min

Lab File: VL042115.D

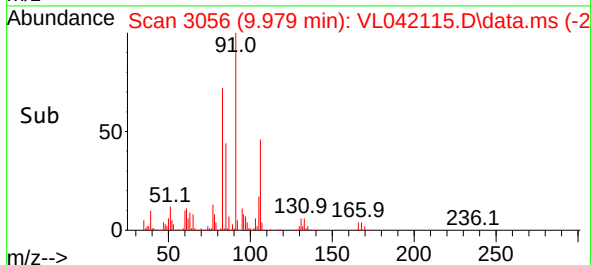
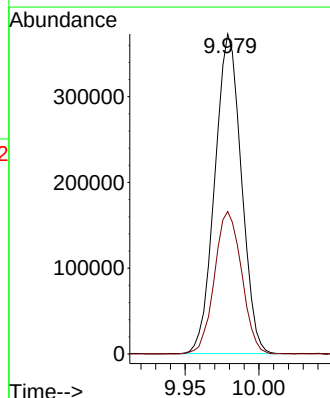
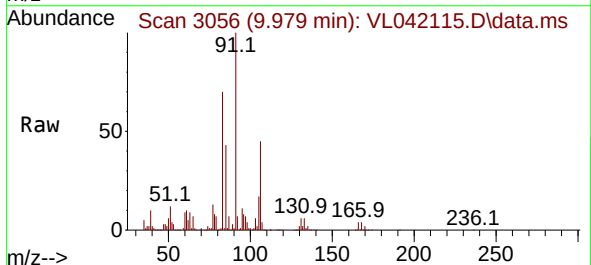
Acq: 10 Mar 2025 09:08

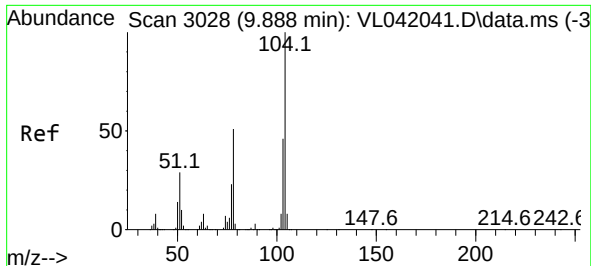
Tgt Ion: 91 Resp: 466520

Ion Ratio Lower Upper

91 100

106 45.7 22.3 66.8

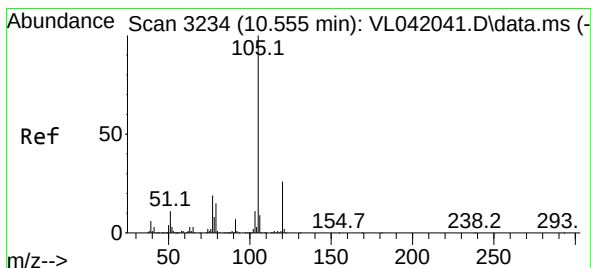
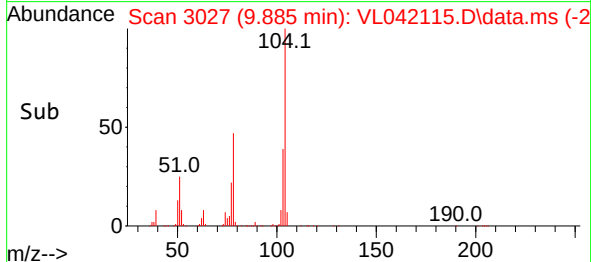
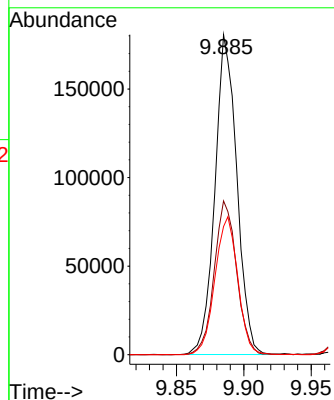
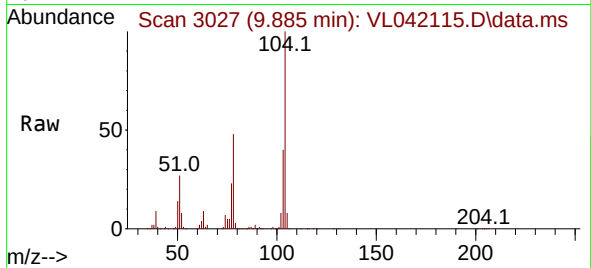




#61
Styrene
Concen: 8.590 ppbv
RT: 9.885 min Scan# 3028
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

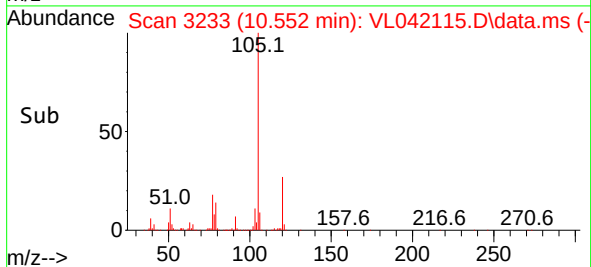
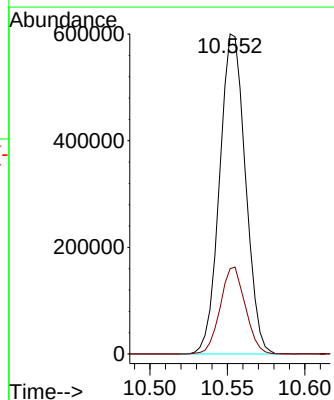
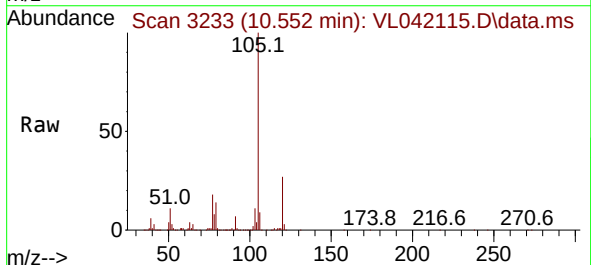
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

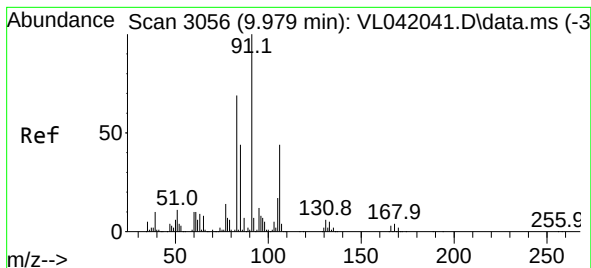
Tgt Ion:104 Resp: 204092
Ion Ratio Lower Upper
104 100
78 49.3 41.0 61.4
103 45.1 37.0 55.6



#62
Isopropylbenzene
Concen: 9.198 ppbv
RT: 10.552 min Scan# 3233
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion:105 Resp: 696113
Ion Ratio Lower Upper
105 100
120 26.3 20.7 31.1





#63

1,1,2,2-Tetrachloroethane

Concen: 9.844 ppbv

RT: 9.979 min Scan# 3056

Delta R.T. -0.000 min

Lab File: VL042115.D

Acq: 10 Mar 2025 09:08

Instrument :

MSVOA_1

ClientSampleId :

VSTDCCC010

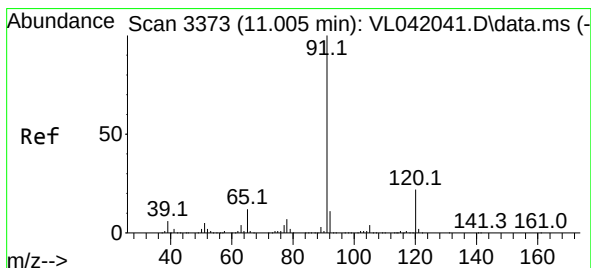
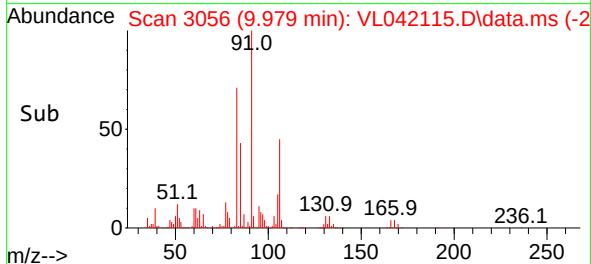
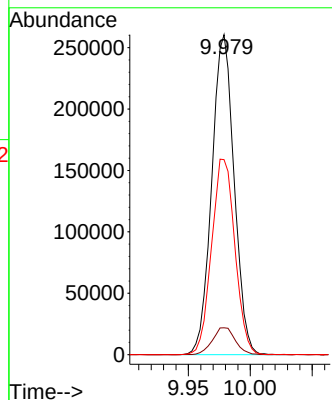
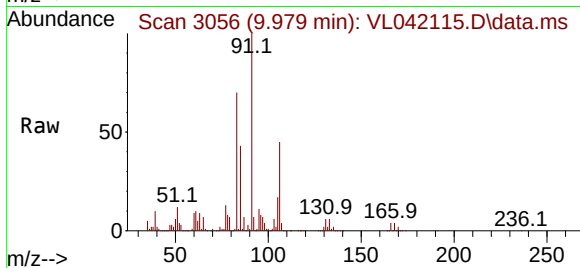
Tgt Ion: 83 Resp: 327603

Ion Ratio Lower Upper

83 100

131 8.7 4.5 13.7

85 63.8 32.1 96.3



#64

n-propylbenzene

Concen: 9.455 ppbv

RT: 11.002 min Scan# 3372

Delta R.T. -0.003 min

Lab File: VL042115.D

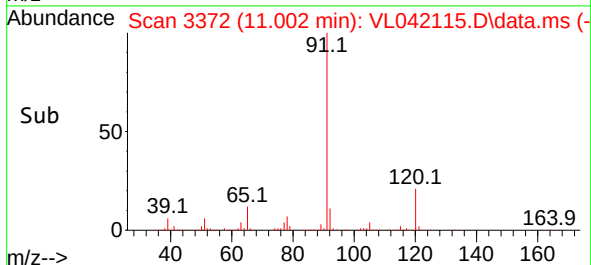
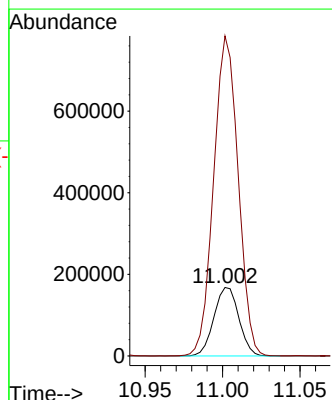
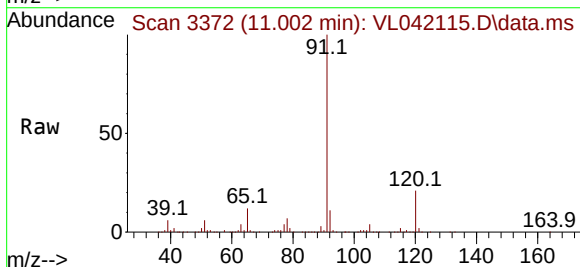
Acq: 10 Mar 2025 09:08

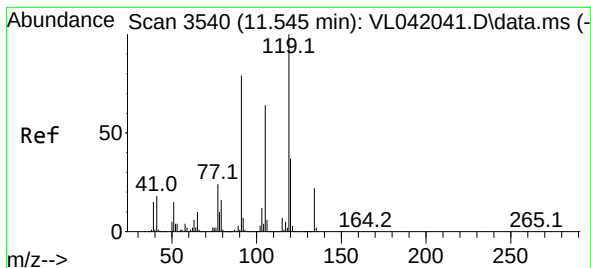
Tgt Ion: 120 Resp: 187705

Ion Ratio Lower Upper

120 100

91 459.8 370.6 556.0





#65

tert-Butylbenzene

Concen: 9.108 ppbv

RT: 11.542 min Scan# 3539

Delta R.T. -0.003 min

Lab File: VL042115.D

Acq: 10 Mar 2025 09:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

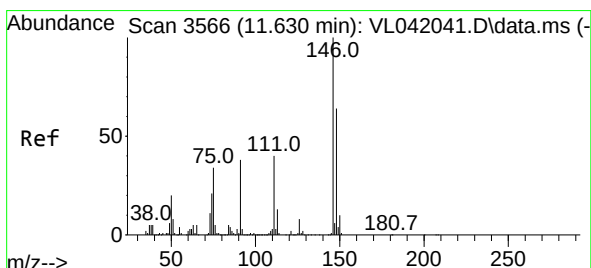
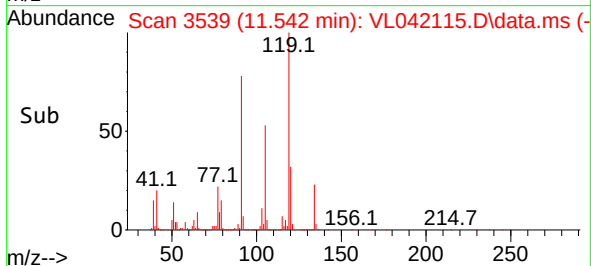
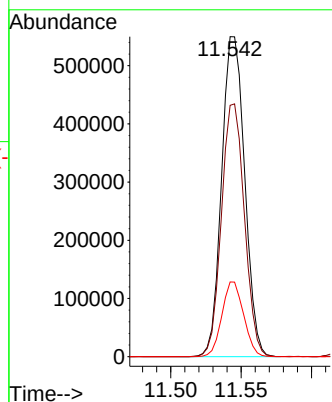
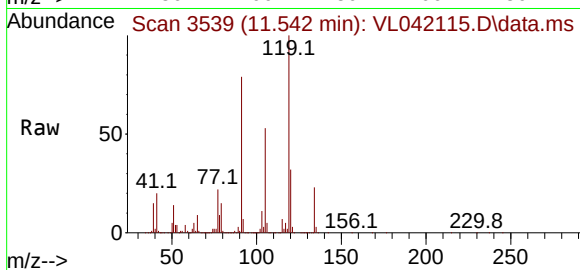
Tgt Ion:119 Resp: 627319

Ion Ratio Lower Upper

119 100

91 78.7 64.2 96.2

134 22.0 17.4 26.2



#66

Benzyl Chloride

Concen: 8.200 ppbv

RT: 11.626 min Scan# 3565

Delta R.T. -0.003 min

Lab File: VL042115.D

Acq: 10 Mar 2025 09:08

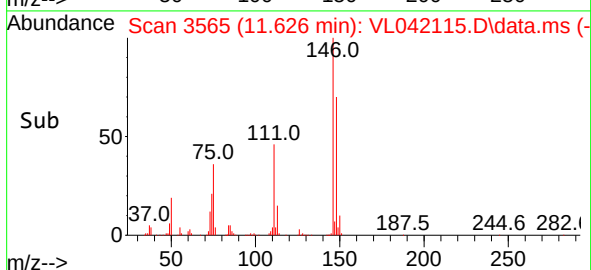
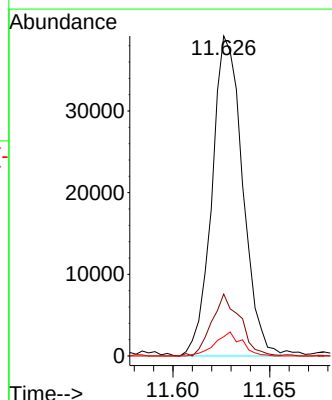
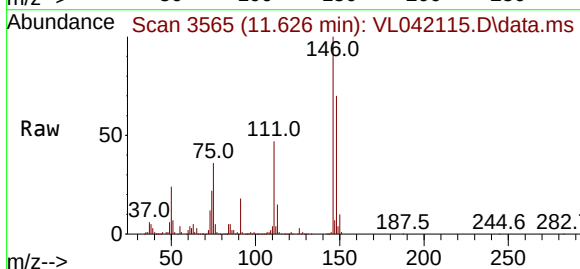
Tgt Ion: 91 Resp: 43097

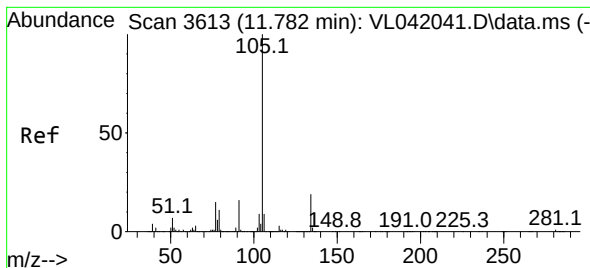
Ion Ratio Lower Upper

91 100

126 18.1 14.5 21.7

128 6.5 5.4 8.2

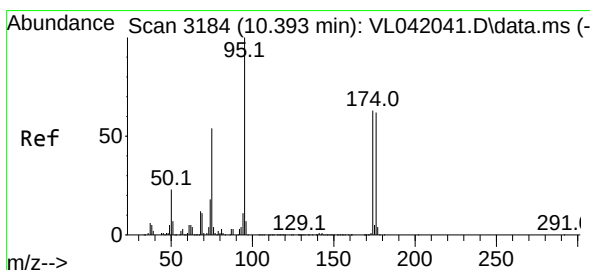
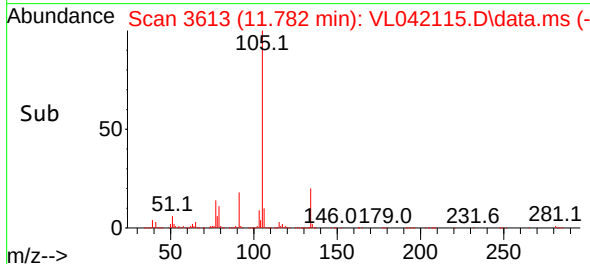
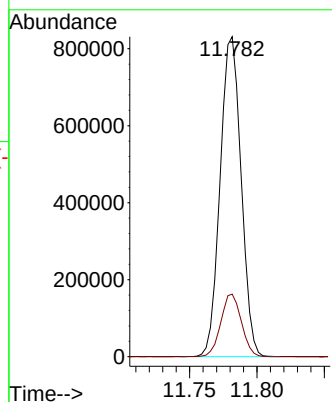
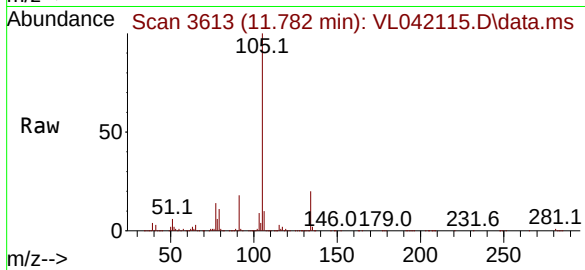




#67
 sec-Butylbenzene
 Concen: 9.132 ppbv
 RT: 11.782 min Scan# 3613
 Delta R.T. -0.000 min
 Lab File: VL042115.D
 Acq: 10 Mar 2025 09:08

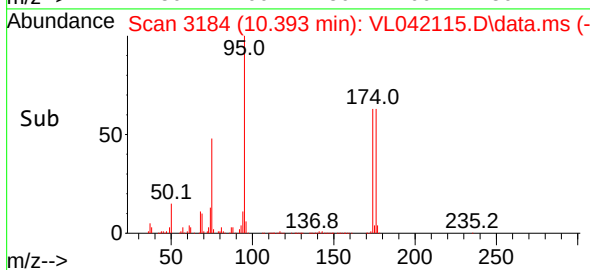
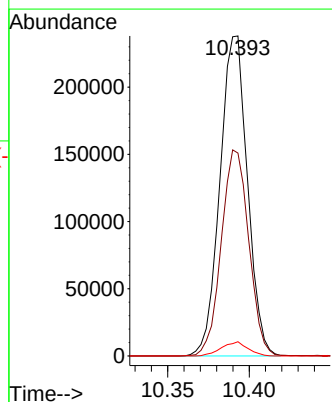
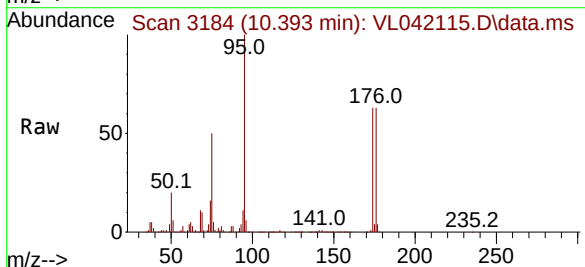
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010

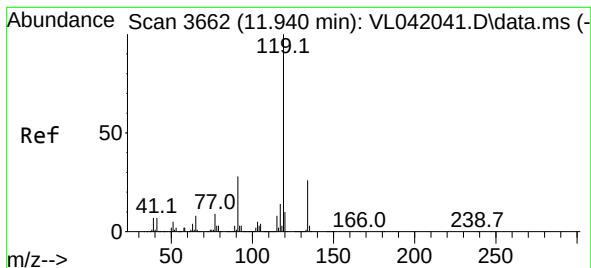
Tgt Ion:105 Resp: 899556
 Ion Ratio Lower Upper
 105 100
 134 19.2 14.9 22.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.591 ppbv
 RT: 10.393 min Scan# 3184
 Delta R.T. -0.000 min
 Lab File: VL042115.D
 Acq: 10 Mar 2025 09:08

Tgt Ion: 95 Resp: 279482
 Ion Ratio Lower Upper
 95 100
 174 64.2 51.8 77.6
 175 4.2 3.9 5.9

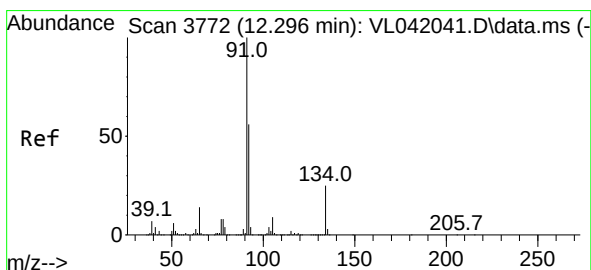
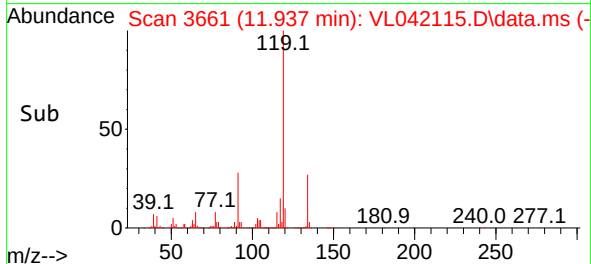
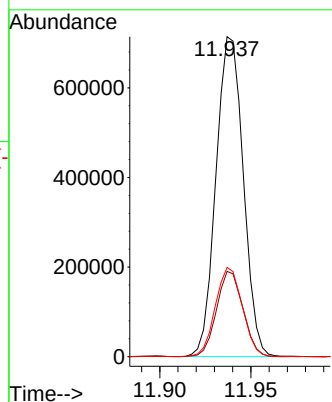
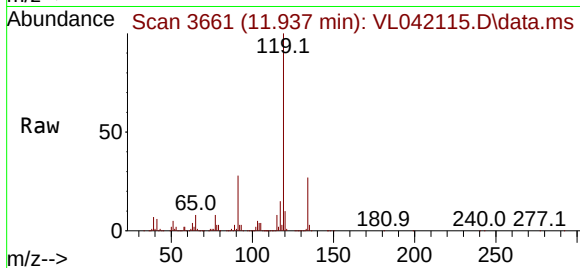




#69
p-Isopropyltoluene
Concen: 9.494 ppbv
RT: 11.937 min Scan# 3661
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

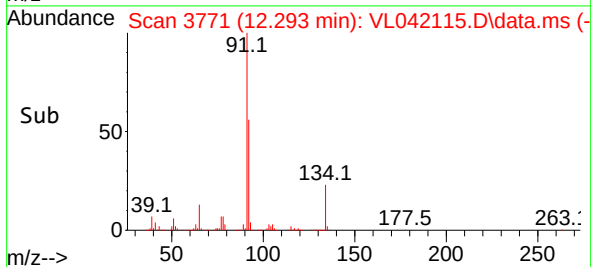
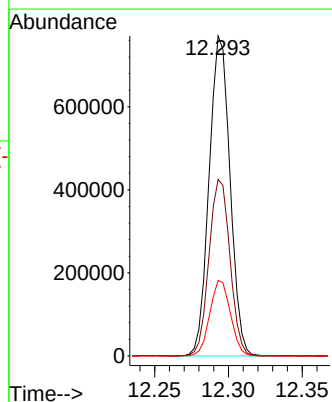
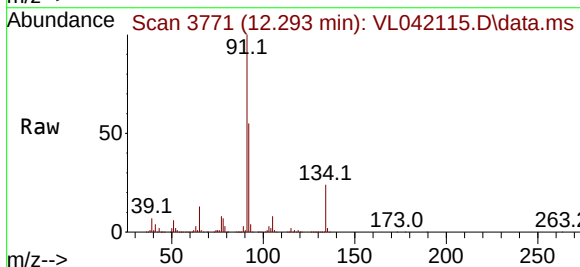
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

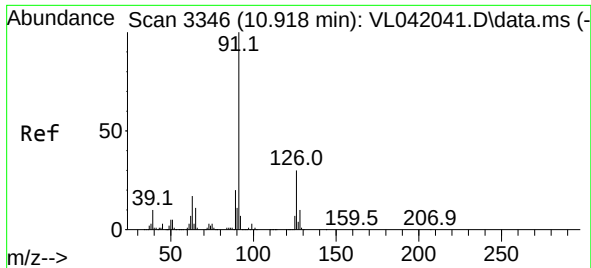
Tgt Ion:119 Resp: 744068
Ion Ratio Lower Upper
119 100
134 25.9 20.9 31.3
91 27.7 23.1 34.7



#70
n-Butylbenzene
Concen: 9.499 ppbv
RT: 12.293 min Scan# 3771
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 91 Resp: 759905
Ion Ratio Lower Upper
91 100
92 55.4 44.7 67.1
134 23.3 18.9 28.3

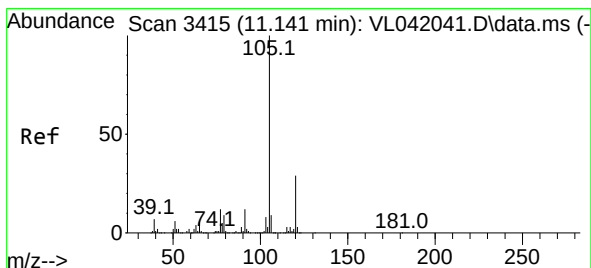
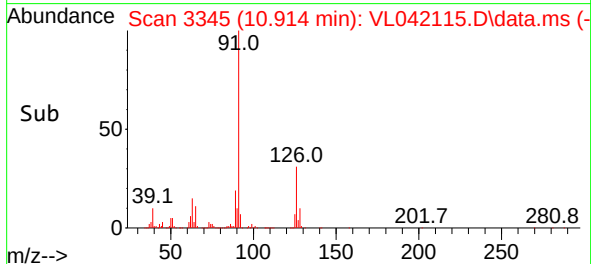
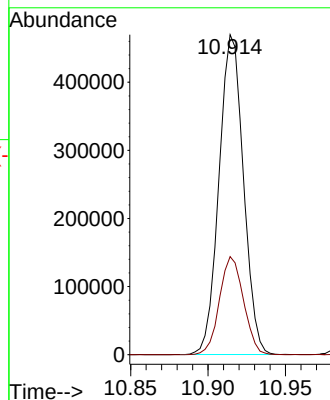
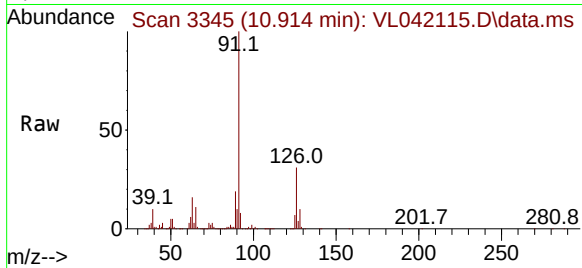




#71
2-Chlorotoluene
Concen: 8.834 ppbv
RT: 10.914 min Scan# 31
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

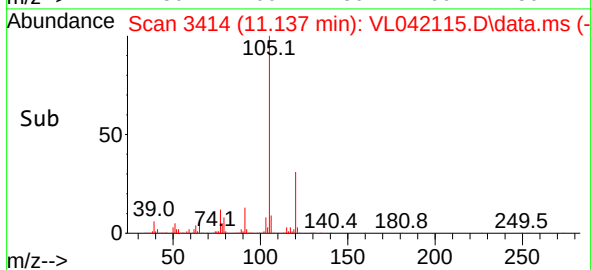
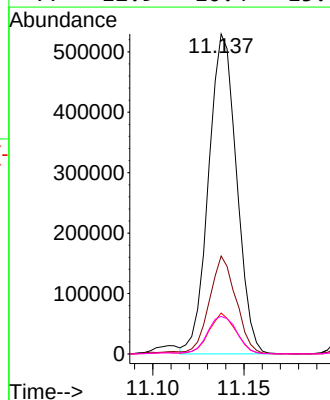
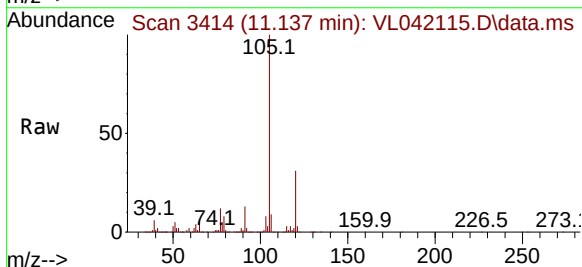
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

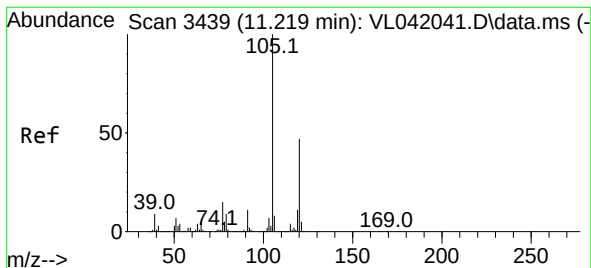
Tgt Ion: 91 Resp: 515375
Ion Ratio Lower Upper
91 100
126 30.2 11.9 47.5



#72
4-Ethyltoluene
Concen: 9.179 ppbv
RT: 11.137 min Scan# 3414
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 105 Resp: 566348
Ion Ratio Lower Upper
105 100
120 29.8 24.1 36.1
91 12.5 10.2 15.4
77 12.9 10.4 15.6





#73

1,3,5-Trimethylbenzene

Concen: 8.976 ppbv

RT: 11.218 min Scan# 3439

Delta R.T. -0.000 min

Lab File: VL042115.D

Acq: 10 Mar 2025 09:08

Instrument :

MSVOA_1

ClientSampleId :

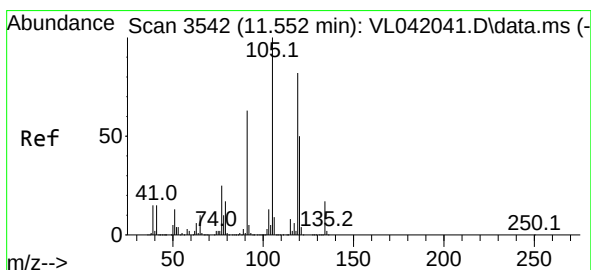
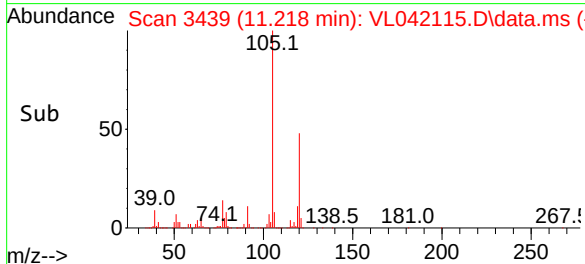
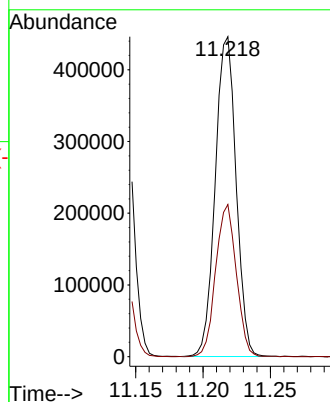
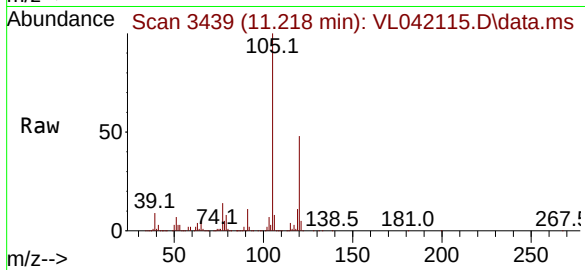
VSTDCCC010

Tgt Ion:105 Resp: 480409

Ion Ratio Lower Upper

105 100

120 47.5 37.4 56.0



#74

1,2,4-Trimethylbenzene

Concen: 9.127 ppbv

RT: 11.549 min Scan# 3541

Delta R.T. -0.003 min

Lab File: VL042115.D

Acq: 10 Mar 2025 09:08

Tgt Ion:105 Resp: 550074

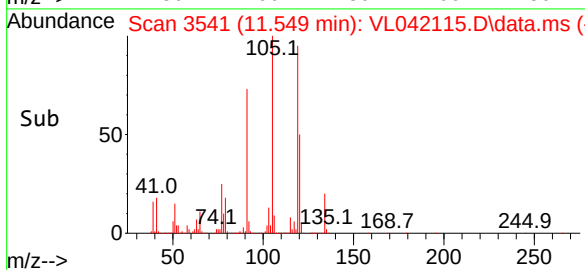
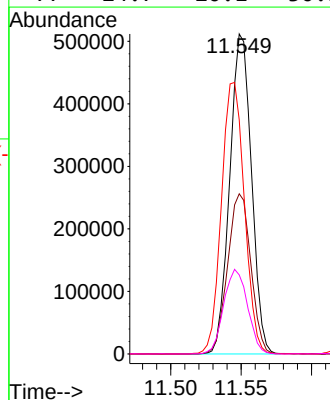
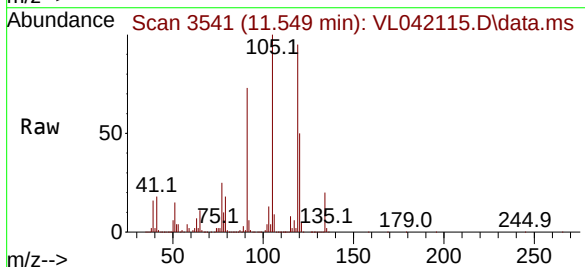
Ion Ratio Lower Upper

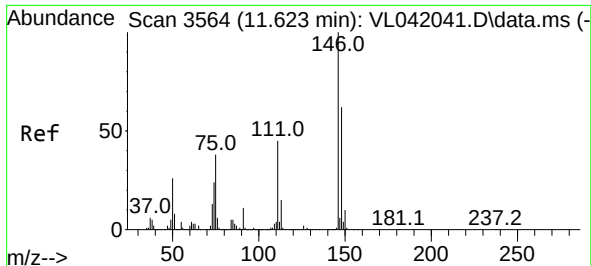
105 100

120 50.1 40.2 60.2

91 73.1 51.4 77.2

77 24.7 20.1 30.1

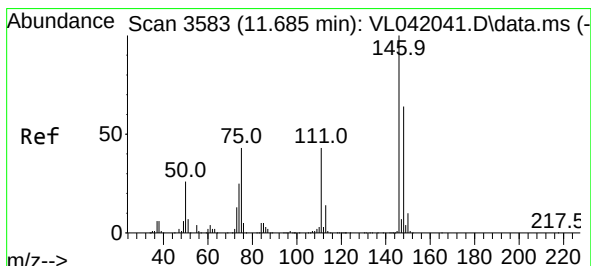
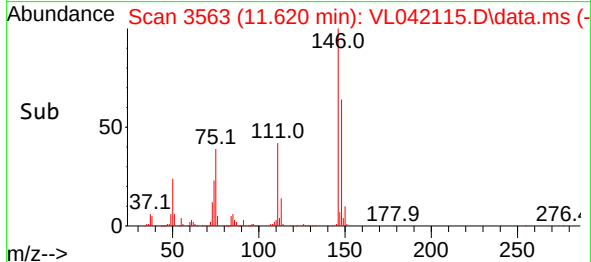
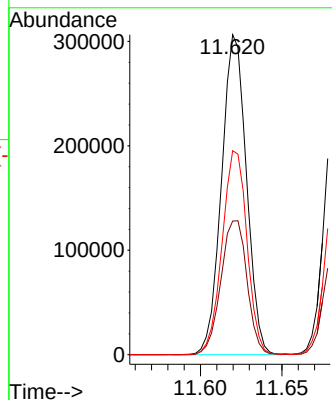
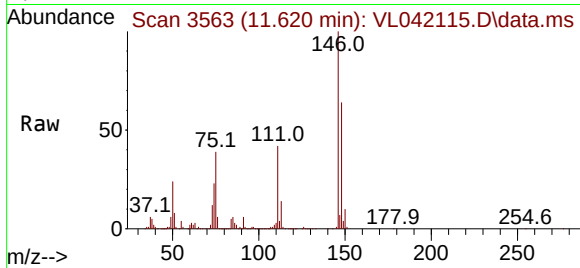




#75
1,3-Dichlorobenzene
Concen: 9.385 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

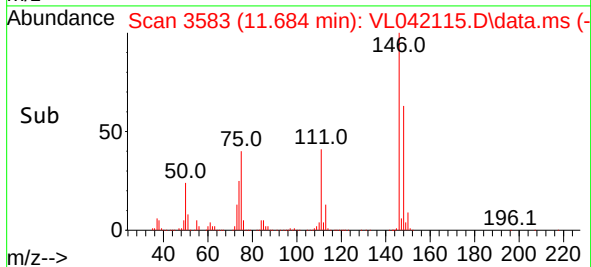
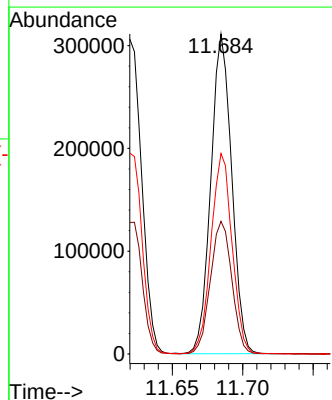
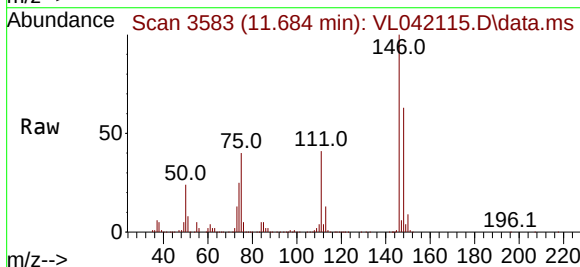
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

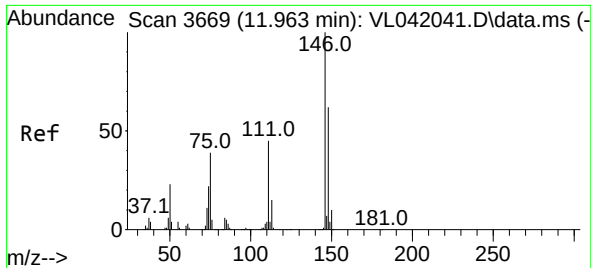
Tgt Ion:146 Resp: 325514
Ion Ratio Lower Upper
146 100
111 44.0 22.4 67.2
148 63.7 32.3 96.8



#76
1,4-Dichlorobenzene
Concen: 9.341 ppbv
RT: 11.684 min Scan# 3583
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion:146 Resp: 321685
Ion Ratio Lower Upper
146 100
111 42.9 21.5 64.5
148 63.4 31.6 95.0

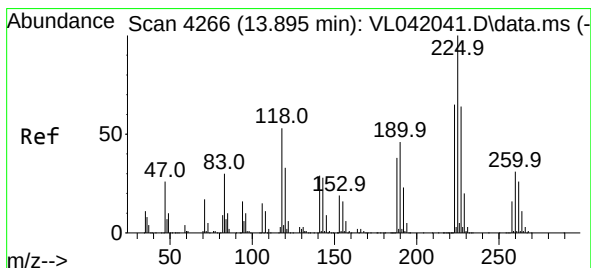
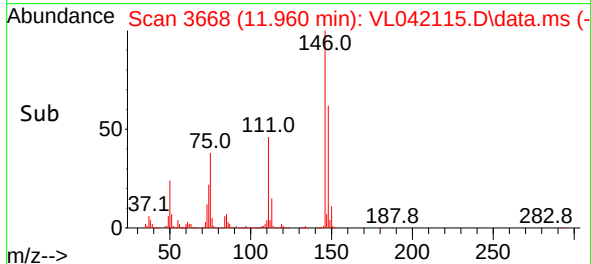
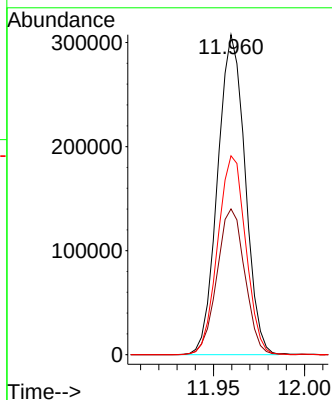
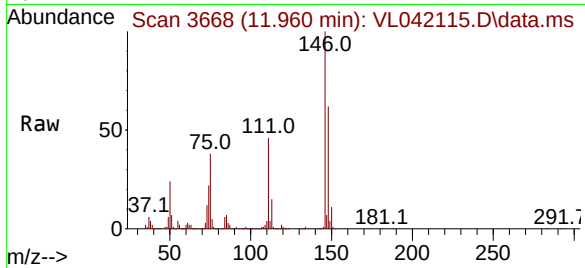




#77
1,2-Dichlorobenzene
Concen: 9.575 ppbv
RT: 11.960 min Scan# 3668
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

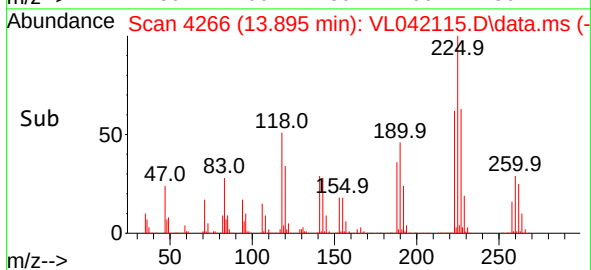
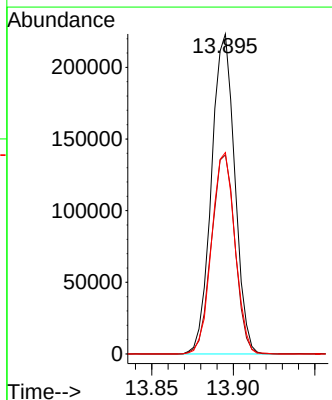
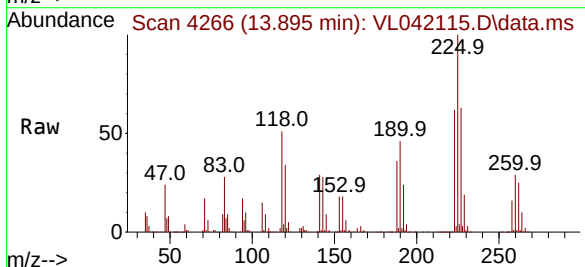
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

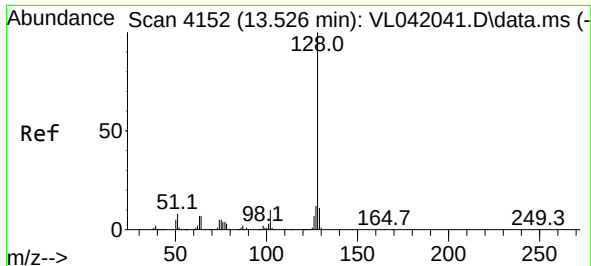
Tgt Ion:146 Resp: 322300
Ion Ratio Lower Upper
146 100
111 46.4 23.2 69.6
148 63.6 31.4 94.2



#78
Hexachloro-1,3-Butadiene
Concen: 8.449 ppbv
RT: 13.895 min Scan# 4266
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion:225 Resp: 221283
Ion Ratio Lower Upper
225 100
223 62.8 50.2 75.2
227 63.1 50.8 76.2

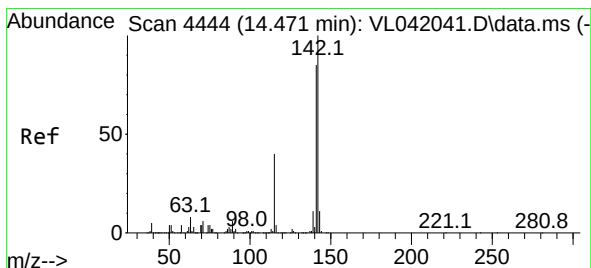
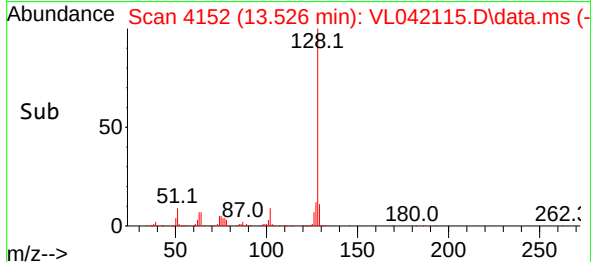
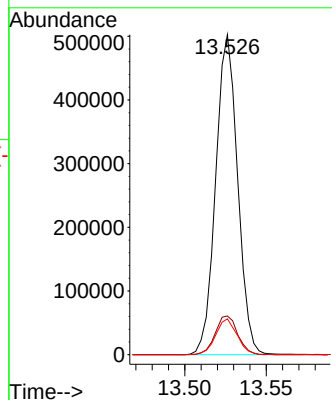
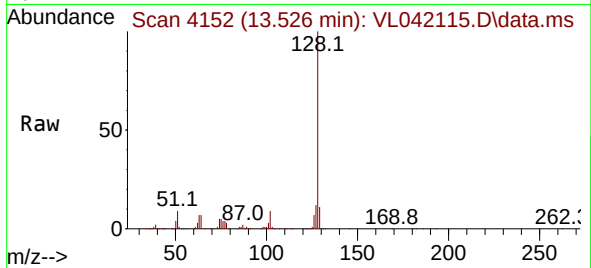




#79
Naphthalene
Concen: 11.379 ppbv
RT: 13.526 min Scan# 4152
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

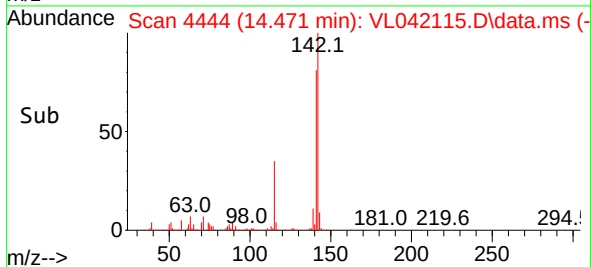
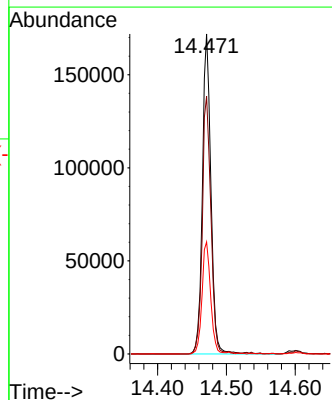
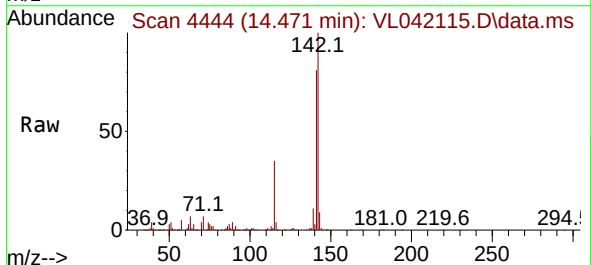
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

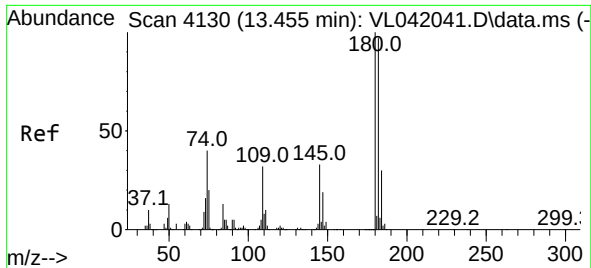
Tgt Ion:128 Resp: 470224
Ion Ratio Lower Upper
128 100
127 12.1 9.8 14.6
129 11.2 8.6 12.8



#80
Naphthalene,2-methyl-
Concen: 13.067 ppbv
RT: 14.471 min Scan# 4444
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion:142 Resp: 147775
Ion Ratio Lower Upper
142 100
141 81.6 65.8 98.6
115 36.0 29.5 44.3

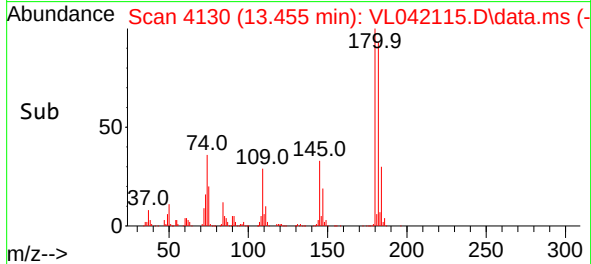
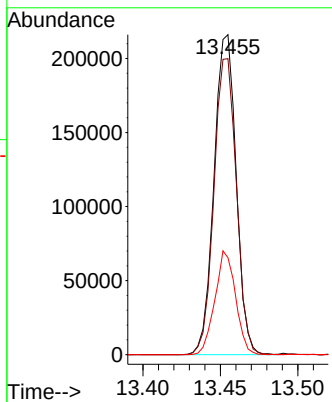
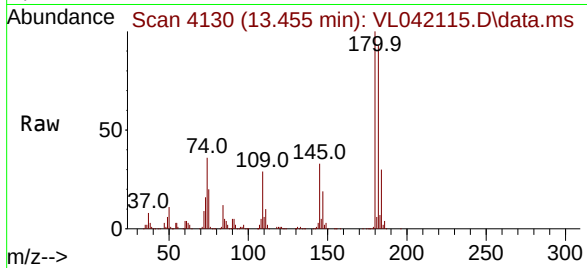




#81
 1,2,4-Trichlorobenzene
 Concen: 9.311 ppbv
 RT: 13.455 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL042115.D
 Acq: 10 Mar 2025 09:08

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tgt Ion:180 Resp: 214425
 Ion Ratio Lower Upper
 180 100
 182 94.3 75.1 112.7
 184 30.4 23.8 35.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
 Data File : VL042115.D
 Acq On : 10 Mar 2025 09:08
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Mar 11 01:20:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	102	0.00
2 T	Dichlorodifluoromethane	1.040	1.070	-2.9	116	0.00
3	Chlorodifluoromethane	1.453	1.300	10.5	102	0.00
4	Chloromethane	0.385	0.403	-4.7	120	0.00
5 T	Vinyl Chloride	0.364	0.383	-5.2	117	0.00
6 T	Bromomethane	0.173	0.189	-9.2	121	0.00
7	Chloroethane	0.148	0.155	-4.7	118	0.00
8 T	Dichlorotetrafluoroethane	0.855	0.904	-5.7	119	0.00
9 T	Propene	0.592	0.514	13.2	101	0.00
10 T	Heptane	1.844	1.519	17.6	94	0.00
11 T	Trichlorofluoromethane	1.042	1.130	-8.4	123	0.00
12 T	1,1,2-Trichlorotrifluoroeth	0.831	0.819	1.4	120	0.00
13	Ethanol	0.038	0.028#	26.3	144	0.00
14 T	Bromoethene	0.293	0.300	-2.4	117	0.00
15 T	Acetone	0.883	0.868	1.7	124	0.00
16 T	1,3-Butadiene	0.411	0.422	-2.7	121	0.00
17	tert-Butyl alcohol	1.105	0.968	12.4	104	0.00
18 T	1,1-Dichloroethene	0.376	0.364	3.2	117	0.00
19 T	Isopropyl Alcohol	0.507	0.489	3.6	120	0.00
20 T	Methylene Chloride	0.334	0.333	0.3	131	0.00
21 T	Allyl Chloride	0.638	0.625	2.0	119	0.00
22 T	trans-1,2-Dichloroethene	0.438	0.436	0.5	125	0.00
23 T	Vinyl Acetate	0.621	0.457	26.4	90	0.00
24 T	1,1-Dichloroethane	0.815	0.843	-3.4	129	0.00
25 T	Ethyl Acetate	3.535	3.053	13.6	99	0.00
26 T	Hexane	1.429	1.213	15.1	97	0.00
27 T	Carbon Disulfide	0.969	0.976	-0.7	117	0.00
28 T	Methyl tert-Butyl Ether	0.711	0.754	-6.0	148	0.00
29 T	Chloroform	1.923	1.687	12.3	100	0.00
30 T	Cyclohexane	1.160	0.936	19.3	89	0.00
31 T	cis-1,2-Dichloroethene	1.353	1.052	22.2	87	0.00
32 T	1,1,1-Trichloroethane	1.866	1.485	20.4	86	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	93	0.00
34 T	2-Butanone	0.779	0.714	8.3	96	0.00
35 T	Carbon Tetrachloride	0.690	0.671	2.8	95	0.00
36 T	Benzene	1.047	0.951	9.2	91	0.00
37 T	1,2-Dichloroethane	0.580	0.503	13.3	90	0.00
38 T	Trichloroethene	0.427	0.360	15.7	88	0.00
39 T	1,2-Dichloropropane	0.397	0.366	7.8	95	0.00
40 T	1,4-Dioxane	0.181	0.169	6.6	96	0.00
41 T	Tetrahydrofuran	0.460	0.409	11.1	91	0.00
42 T	Bromodichloromethane	0.782	0.718	8.2	90	0.00
43	Methyl Methacrylate	0.409	0.336	17.8	80	0.00
44 T	2,2,4-Trimethylpentane	1.848	1.713	7.3	95	0.00
45 T	t-1,3-Dichloropropene	0.406	0.307	24.4	72	0.00
46 T	cis-1,3-Dichloropropene	0.526	0.430	18.3	77	0.00
47 T	1,1,2-Trichloroethane	0.403	0.369	8.4	95	0.00
48 T	Dibromochloromethane	0.632	0.569	10.0	89	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
 Data File : VL042115.D
 Acq On : 10 Mar 2025 09:08
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Mar 11 01:20:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 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	0.549	0.516	6.0	91	0.00
50 T	4-Methyl-2-Pentanone	1.008	0.978	3.0	90	0.00
51 T	2-Hexanone	0.693	0.777	-12.1	87	0.00
52 T	Tetrachloroethene	0.358	0.306	14.5	87	0.00
53 T	Toluene	1.170	0.989	15.5	84	0.00
54 T	1,2-Dibromoethane	0.545	0.483	11.4	90	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	92	0.00
56	1,1,1,2-Tetrachloroethane	0.565	0.539	4.6	98	0.00
57 T	Chlorobenzene	1.037	0.962	7.2	97	0.00
58 T	Ethyl Benzene	1.842	1.602	13.0	87	0.00
59 T	m/p-Xylene	1.466	1.356	7.5	93	0.01
60 T	o-Xylene	1.473	1.360	7.7	95	0.00
61 T	Styrene	0.693	0.595	14.1	83	0.00
62	Isopropylbenzene	2.207	2.030	8.0	94	0.00
63 T	1,1,2,2-Tetrachloroethane	0.970	0.955	1.5	103	0.00
64	n-propylbenzene	0.579	0.547	5.5	96	0.00
65	tert-Butylbenzene	2.008	1.829	8.9	97	0.00
66 T	Benzyl Chloride	0.153	0.126	17.6	75	0.00
67	sec-Butylbenzene	2.872	2.623	8.7	97	0.00
68 S	1-Bromo-4-Fluorobenzene	0.769	0.815	-6.0	98	0.00
69	p-Isopropyltoluene	2.285	2.169	5.1	98	0.00
70	n-Butylbenzene	2.332	2.216	5.0	98	0.00
71	2-Chlorotoluene	1.701	1.503	11.6	91	0.00
72 T	4-Ethyltoluene	1.799	1.651	8.2	93	0.00
73 T	1,3,5-Trimethylbenzene	1.560	1.401	10.2	93	0.00
74 T	1,2,4-Trimethylbenzene	1.757	1.604	8.7	100	0.00
75 T	1,3-Dichlorobenzene	1.011	0.949	6.1	100	0.00
76 T	1,4-Dichlorobenzene	1.004	0.938	6.6	100	0.00
77 T	1,2-Dichlorobenzene	0.981	0.940	4.2	103	0.00
78 T	Hexachloro-1,3-Butadiene	0.764	0.645	15.6	93	0.00
79 T	Naphthalene	1.205	1.371	-13.8	92	0.00
80 T	Naphthalene,2-methyl-	0.330	0.431	-30.6#	70	0.00
81 T	1,2,4-Trichlorobenzene	0.671	0.625	6.9	89	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
 Data File : VL042115.D
 Acq On : 10 Mar 2025 09:08
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Mar 11 01:20:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	10.000	10.000	0.0	102	0.00
2 T	Dichlorodifluoromethane	10.000	10.292	-2.9	116	0.00
3	Chlorodifluoromethane	10.000	8.945	10.5	102	0.00
4	Chloromethane	10.000	10.491	-4.9	120	0.00
5 T	Vinyl Chloride	10.000	10.524	-5.2	117	0.00
6 T	Bromomethane	10.000	10.908	-9.1	121	0.00
7	Chloroethane	10.000	10.513	-5.1	118	0.00
8 T	Dichlorotetrafluoroethane	10.000	10.577	-5.8	119	0.00
9 T	Propene	10.000	8.674	13.3	101	0.00
10 T	Heptane	10.000	8.240	17.6	94	0.00
11 T	Trichlorofluoromethane	10.000	10.841	-8.4	123	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	9.855	1.4	120	0.00
13	Ethanol	10.000	7.383	26.2	144	0.00
14 T	Bromoethene	10.000	10.221	-2.2	117	0.00
15 T	Acetone	10.000	9.824	1.8	124	0.00
16 T	1,3-Butadiene	10.000	10.258	-2.6	121	0.00
17	tert-Butyl alcohol	10.000	8.763	12.4	104	0.00
18 T	1,1-Dichloroethene	10.000	9.687	3.1	117	0.00
19 T	Isopropyl Alcohol	10.000	9.648	3.5	120	0.00
20 T	Methylene Chloride	10.000	9.961	0.4	131	0.00
21 T	Allyl Chloride	10.000	9.796	2.0	119	0.00
22 T	trans-1,2-Dichloroethene	10.000	9.970	0.3	125	0.00
23 T	Vinyl Acetate	10.000	7.358	26.4	90	0.00
24 T	1,1-Dichloroethane	10.000	10.354	-3.5	129	0.00
25 T	Ethyl Acetate	10.000	8.638	13.6	99	0.00
26 T	Hexane	10.000	8.485	15.2	97	0.00
27 T	Carbon Disulfide	10.000	10.074	-0.7	117	0.00
28 T	Methyl tert-Butyl Ether	10.000	10.593	-5.9	148	0.00
29 T	Chloroform	10.000	8.771	12.3	100	0.00
30 T	Cyclohexane	10.000	8.072	19.3	89	0.00
31 T	cis-1,2-Dichloroethene	10.000	7.774	22.3	87	0.00
32 T	1,1,1-Trichloroethane	10.000	7.957	20.4	86	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	93	0.00
34 T	2-Butanone	10.000	9.161	8.4	96	0.00
35 T	Carbon Tetrachloride	10.000	9.725	2.8	95	0.00
36 T	Benzene	10.000	9.084	9.2	91	0.00
37 T	1,2-Dichloroethane	10.000	8.665	13.4	90	0.00
38 T	Trichloroethene	10.000	8.419	15.8	88	0.00
39 T	1,2-Dichloropropane	10.000	9.199	8.0	95	0.00
40 T	1,4-Dioxane	10.000	9.311	6.9	96	0.00
41 T	Tetrahydrofuran	10.000	8.893	11.1	91	0.00
42 T	Bromodichloromethane	10.000	9.180	8.2	90	0.00
43	Methyl Methacrylate	10.000	8.207	17.9	80	0.00
44 T	2,2,4-Trimethylpentane	10.000	9.271	7.3	95	0.00
45 T	t-1,3-Dichloropropene	10.000	7.547	24.5	72	0.00
46 T	cis-1,3-Dichloropropene	10.000	8.174	18.3	77	0.00
47 T	1,1,2-Trichloroethane	10.000	9.147	8.5	95	0.00
48 T	Dibromochloromethane	10.000	9.006	9.9	89	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
 Data File : VL042115.D
 Acq On : 10 Mar 2025 09:08
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Mar 11 01:20:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 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	9.404	6.0	91	0.00
50 T	4-Methyl-2-Pentanone	10.000	9.703	3.0	90	0.00
51 T	2-Hexanone	10.000	11.208	-12.1	87	0.00
52 T	Tetrachloroethene	10.000	8.529	14.7	87	0.00
53 T	Toluene	10.000	8.453	15.5	84	0.00
54 T	1,2-Dibromoethane	10.000	8.851	11.5	90	0.00
55 I	Chlorobenzene-d5	10.000	10.000	0.0	92	0.00
56	1,1,1,2-Tetrachloroethane	10.000	9.542	4.6	98	0.00
57 T	Chlorobenzene	10.000	9.281	7.2	97	0.00
58 T	Ethyl Benzene	10.000	8.698	13.0	87	0.00
59 T	m/p-Xylene	20.000	18.509	7.5	93	0.01
60 T	o-Xylene	10.000	9.232	7.7	95	0.00
61 T	Styrene	10.000	8.590	14.1	83	0.00
62	Isopropylbenzene	10.000	9.198	8.0	94	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	9.844	1.6	103	0.00
64	n-propylbenzene	10.000	9.455	5.4	96	0.00
65	tert-Butylbenzene	10.000	9.108	8.9	97	0.00
66 T	Benzyl Chloride	10.000	8.200	18.0	75	0.00
67	sec-Butylbenzene	10.000	9.132	8.7	97	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	10.591	-5.9	98	0.00
69	p-Isopropyltoluene	10.000	9.494	5.1	98	0.00
70	n-Butylbenzene	10.000	9.499	5.0	98	0.00
71	2-Chlorotoluene	10.000	8.834	11.7	91	0.00
72 T	4-Ethyltoluene	10.000	9.179	8.2	93	0.00
73 T	1,3,5-Trimethylbenzene	10.000	8.976	10.2	93	0.00
74 T	1,2,4-Trimethylbenzene	10.000	9.127	8.7	100	0.00
75 T	1,3-Dichlorobenzene	10.000	9.385	6.2	100	0.00
76 T	1,4-Dichlorobenzene	10.000	9.341	6.6	100	0.00
77 T	1,2-Dichlorobenzene	10.000	9.575	4.3	103	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	8.449	15.5	93	0.00
79 T	Naphthalene	10.000	11.379	-13.8	92	0.00
80 T	Naphthalene,2-methyl-	10.000	13.067	-30.7#	70	0.00
81 T	1,2,4-Trichlorobenzene	10.000	9.311	6.9	89	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



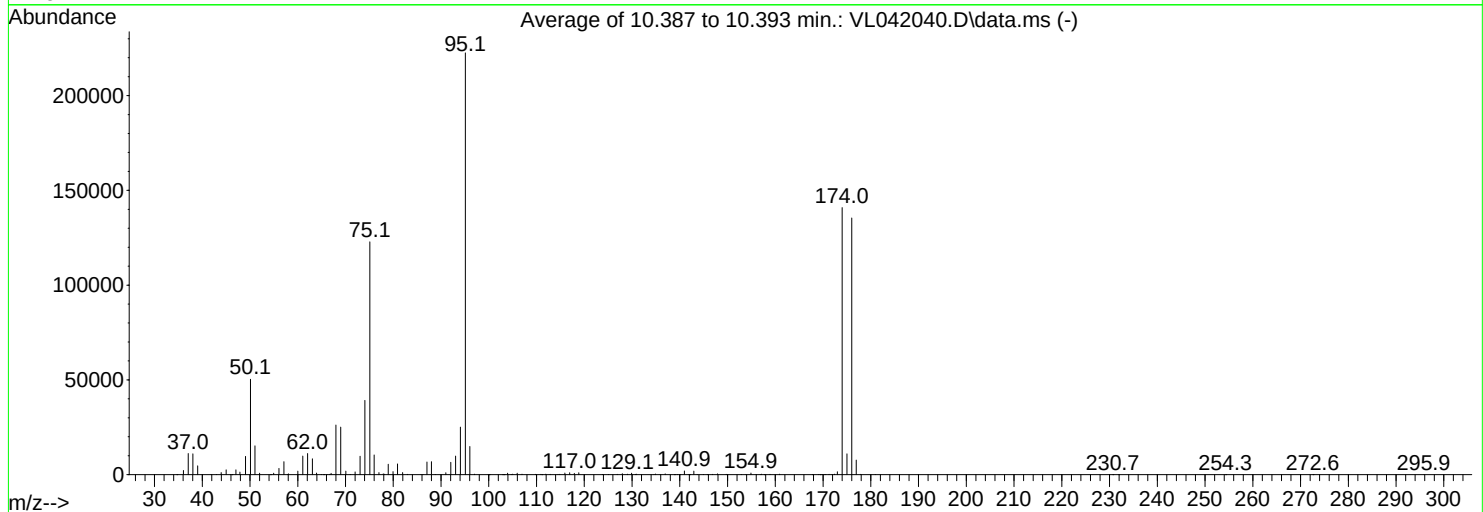
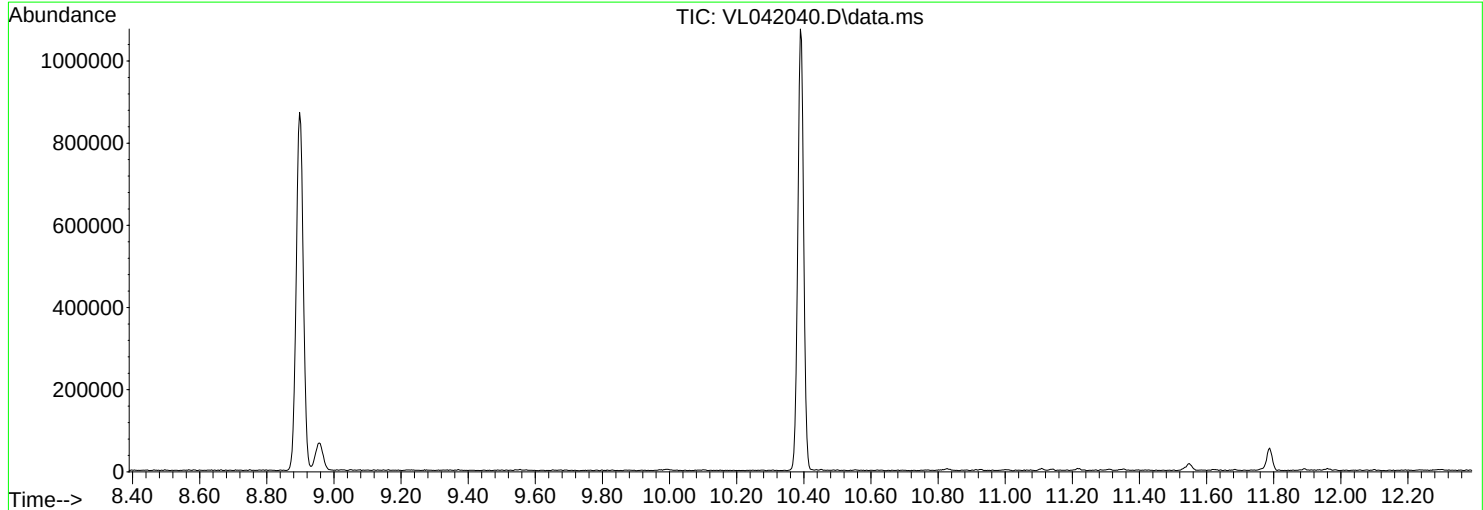
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042040.D
Acq On : 25 Feb 2025 07:56
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\VL022525AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Wed Feb 26 01:08:36 2025



AutoFind: Scans 3182, 3183, 3184; Background Corrected with Scan 3168

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	22.6	50320	PASS
75	95	30	66	55.2	122859	PASS
95	95	100	100	100.0	222571	PASS
96	95	5	9	6.7	14875	PASS
173	174	0.00	2	1.1	1534	PASS
174	95	50	120	63.3	140957	PASS
175	174	4	9	7.8	11014	PASS
176	174	93	101	96.1	135437	PASS
177	176	5	9	5.7	7676	PASS

Average of 10.387 to 10.393 min.: VL042040.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
34.70	28	47.05	2526	58.05	414	68.00	2618
36.05	2223	47.90	1374	60.00	1900	69.00	2505
37.05	11140	49.05	9623	61.05	9827	70.05	185
38.05	10945	50.10	50320	62.05	11140	71.00	6
39.05	4647	51.05	15242	63.05	8365	72.00	1450
41.85	112	52.00	740	63.95	890	73.05	9731
43.00	126	54.30	17	64.95	122	74.05	39184
43.95	1131	54.95	752	65.40	22	75.10	122859
45.00	2511	56.05	3327	66.10	82	76.00	10406
45.90	77	57.10	6812	66.70	141	77.00	1084
46.20	45	57.90	131	67.00	689	77.90	437

Average of 10.387 to 10.393 min.: VL042040.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
78.10	265	91.00	978	103.95	765	114.85	144
78.95	5465	92.05	6469	104.70	49	115.95	842
79.95	1631	93.05	9774	105.00	247	116.95	1016
80.90	5642	94.05	25088	105.95	752	117.90	687
81.95	1083	95.10	222571	106.95	295	118.85	1016
82.95	188	96.05	14875	109.80	139	123.80	72
85.80	135	97.00	284	110.90	160	124.00	81
86.20	121	99.90	37	111.10	25	125.10	63
87.05	6697	100.10	27	111.95	220	126.90	143
88.00	6841	102.90	35	112.85	148	127.95	520
88.80	63	103.20	35	114.50	51	129.05	303

Average of 10.387 to 10.393 min.: VL042040.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
129.90	788	140.95	1984	150.00	105	167.80	25
130.70	187	141.90	37	152.90	126	169.10	103
130.95	248	142.05	44	153.85	131	169.40	46
134.60	83	142.95	1834	154.90	850	169.95	64
134.95	371	143.65	110	156.00	119	170.40	64
135.90	48	144.95	99	156.85	134	170.60	88
136.95	394	145.75	130	157.10	226	171.25	175
138.90	30	146.00	95	157.70	18	171.90	106
139.50	84	146.85	213	158.00	51	172.40	228
139.90	68	147.90	442	158.90	147	173.00	1534
140.10	99	149.70	178	160.90	256	174.00	140957

Average of 10.387 to 10.393 min.: VL042040.D\data.ms

BFB

Modified:subtracted

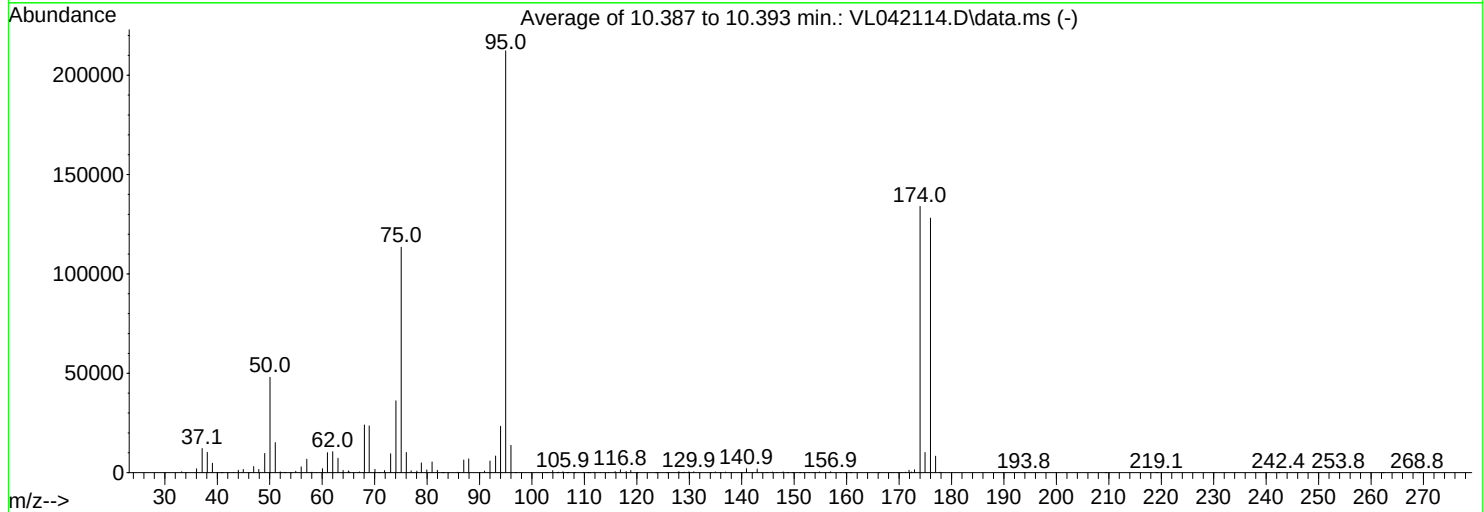
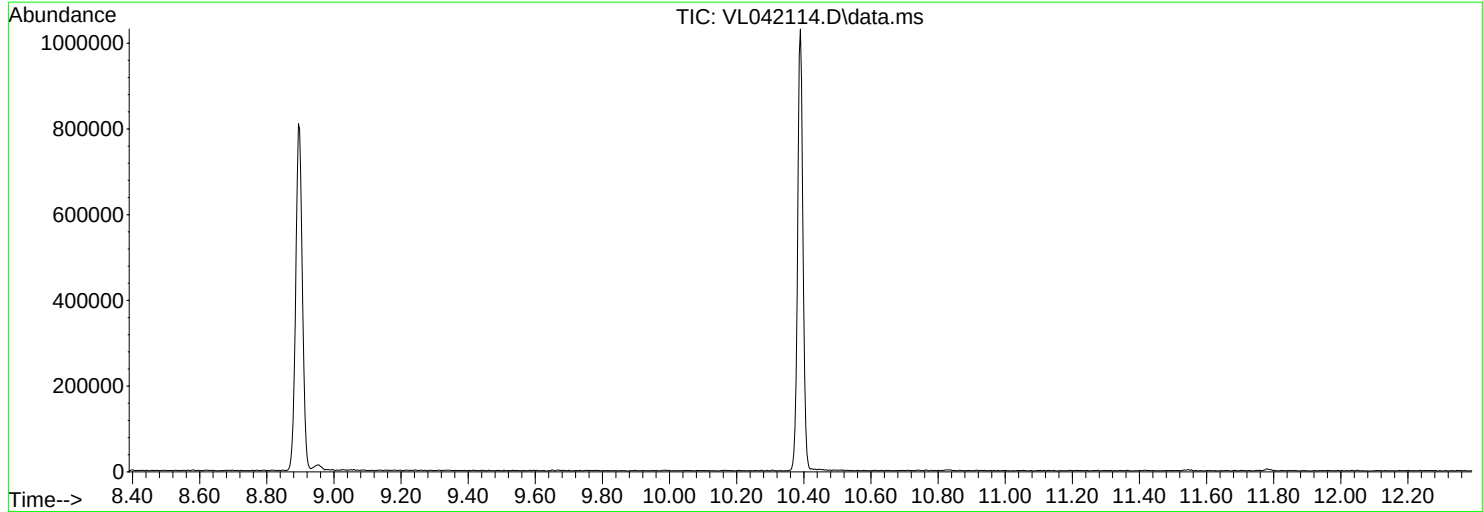
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
175.00	11014						
176.00	135437						
176.95	7676						
177.90	161						
180.95	55						
230.70	27						
231.90	20						
254.30	36						
272.60	20						
295.85	67						

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
Data File : VL042114.D
Acq On : 10 Mar 2025 08:22
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\VL022525AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Wed Feb 26 01:08:36 2025



AutoFind: Scans 3182, 3183, 3184; Background Corrected with Scan 3168

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	22.6	47960	PASS
75	95	30	66	53.4	113432	PASS
95	95	100	100	100.0	212267	PASS
96	95	5	9	6.5	13780	PASS
173	174	0.00	2	1.1	1482	PASS
174	95	50	120	63.1	133968	PASS
175	174	4	9	7.6	10185	PASS
176	174	93	101	95.6	128123	PASS
177	176	5	9	6.5	8273	PASS

Average of 10.387 to 10.393 min.: VL042114.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
33.20	465	44.95	1598	54.00	39	64.00	116
34.05	168	46.15	119	54.95	693	65.00	88
36.05	1968	46.95	3029	56.00	2870	65.20	34
37.10	12192	47.90	1628	57.05	6764	65.95	10
38.10	10213	49.05	9673	57.80	118	66.80	118
39.05	4743	50.05	47960	58.05	226	67.10	378
40.80	18	51.05	15126	58.85	49	68.05	24019
41.10	66	52.00	396	60.05	2001	68.95	23553
41.95	154	52.20	112	61.00	10067	70.05	1668
43.10	145	52.85	191	62.00	10530	70.90	109
44.00	1208	53.10	145	63.00	7241	71.90	1051

Average of 10.387 to 10.393 min.: VL042114.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
73.05	9509	82.90	135	95.00	212267	106.70	37
74.05	36173	83.10	42	96.00	13780	107.00	181
75.05	113432	84.05	65	96.90	114	108.00	24
76.05	10118	85.85	220	97.05	154	108.20	48
76.95	1002	86.10	67	98.00	63	109.85	130
77.50	106	87.00	6347	102.65	71	110.60	31
78.05	842	87.95	6894	103.00	48	111.00	42
78.90	4958	90.95	841	103.95	1039	111.90	210
79.95	1412	92.00	5925	104.80	28	113.05	100
80.95	5386	93.05	8354	105.05	277	114.60	109
81.95	1178	94.00	23376	105.90	499	115.85	554

Average of 10.387 to 10.393 min.: VL042114.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
116.85	1451	129.05	243	142.10	123	149.90	100
117.95	597	129.80	213	142.95	1873	151.10	29
118.85	1147	129.95	425	143.80	165	151.75	56
120.00	23	130.85	484	144.70	83	152.85	117
123.60	47	134.00	39	144.95	114	153.60	57
124.05	51	134.95	380	145.85	313	154.00	140
125.80	27	135.90	17	146.70	63	154.85	437
127.90	416	136.90	317	147.90	409	155.90	113
128.10	302	138.00	62	148.70	32	156.70	127
128.60	62	139.95	106	148.85	114	156.95	508
128.80	108	140.90	2004	149.70	103	158.85	115

Average of 10.387 to 10.393 min.: VL042114.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
159.80	24	172.40	289	242.40	30		
160.70	32	172.95	1482	253.80	72		
160.95	114	174.00	133968	262.30	18		
166.10	44	174.95	10185	268.80	68		
168.50	164	176.00	128123	269.20	26		
169.00	60	176.95	8273				
169.65	52	177.80	239				
170.10	55	178.00	55				
170.55	133	193.80	42				
171.20	216	209.40	18				
171.90	1192	219.10	27				

Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	404 Bloomfield Ave	Date Received:	
Client Sample ID:	VL0310ABL01	SDG No.:	Q1506
Lab Sample ID:	VL0310ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042116.D	1		03/10/25 09:54	VL031025

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.90			65 - 135	99%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	162000		2.797			
540-36-3	1,4-Difluorobenzene	386000		3.972			
3114-55-4	Chlorobenzene-d5	325000		8.895			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
 Data File : VL042116.D
 Acq On : 10 Mar 2025 09:54
 Operator : SY/MD
 Sample : VL0310ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0310ABL01

Quant Time: Mar 11 01:21:34 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	162394	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.972	114	386417	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.895	117	325291	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	247682	9.897	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.000%

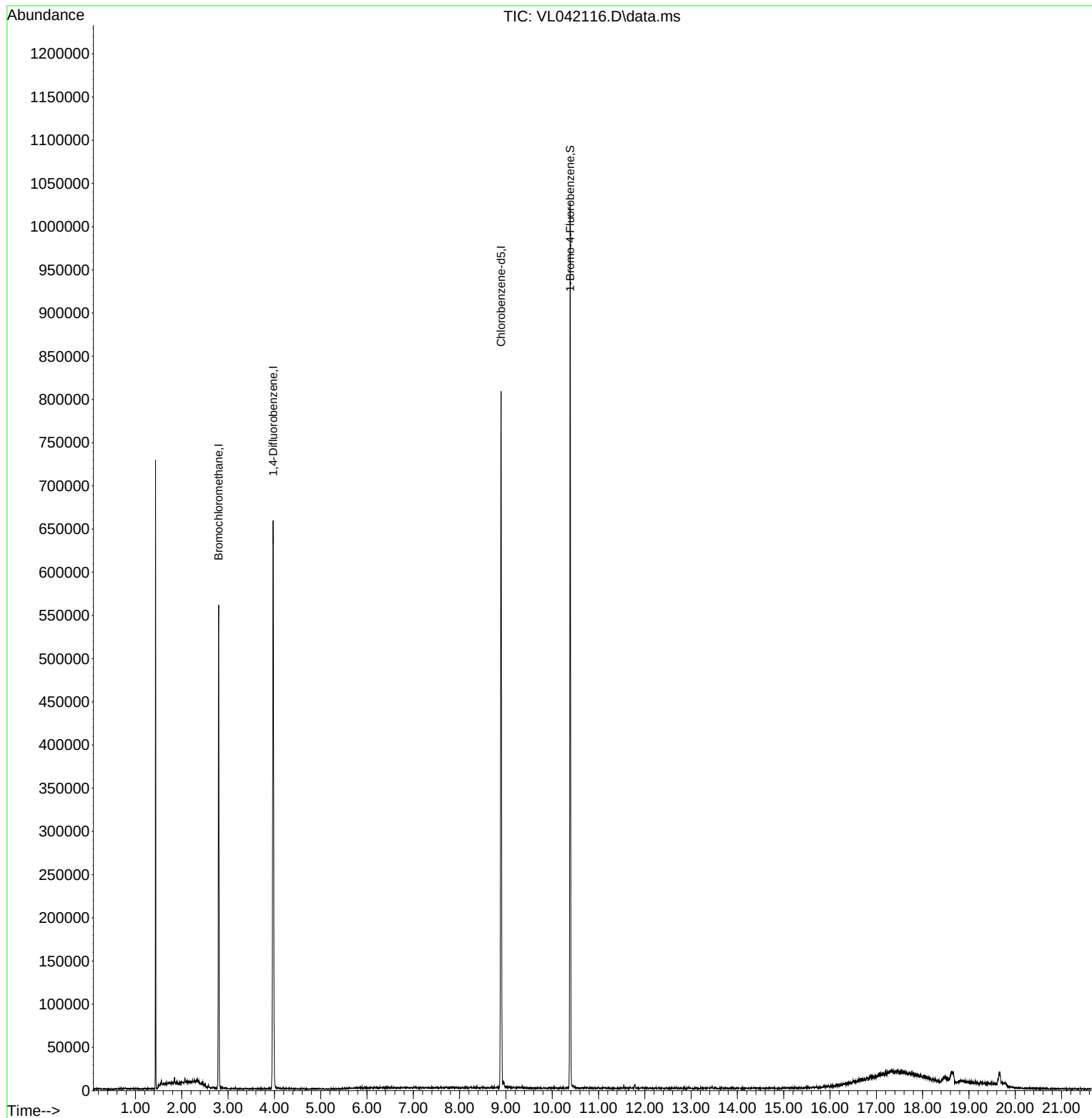
Target Compounds	Qvalue

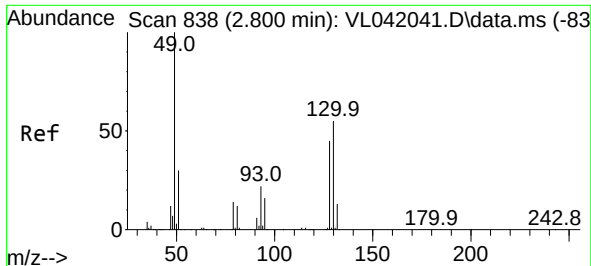
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
Data File : VL042116.D
Acq On : 10 Mar 2025 09:54
Operator : SY/MD
Sample : VL0310ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0310ABL01

Quant Time: Mar 11 01:21:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

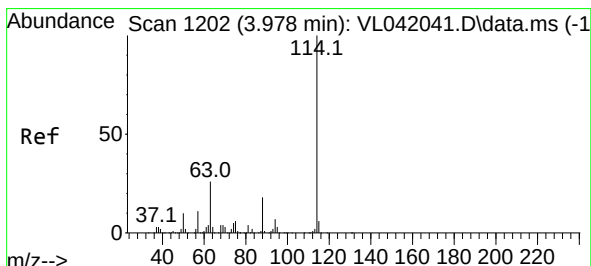
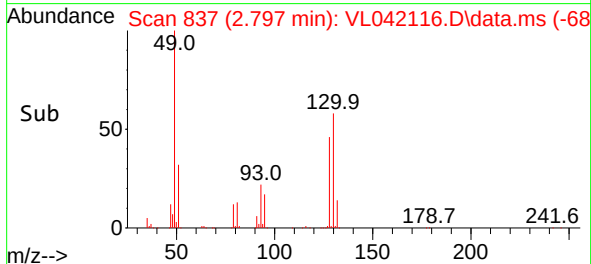
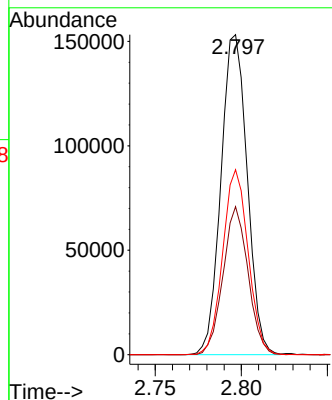
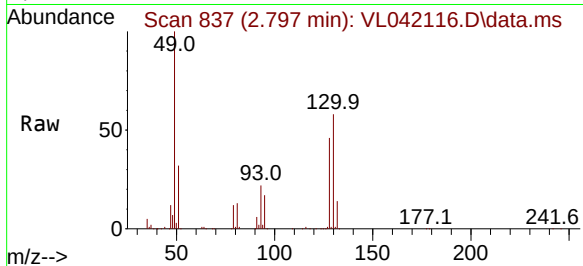




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL042116.D
Acq: 10 Mar 2025 09:54

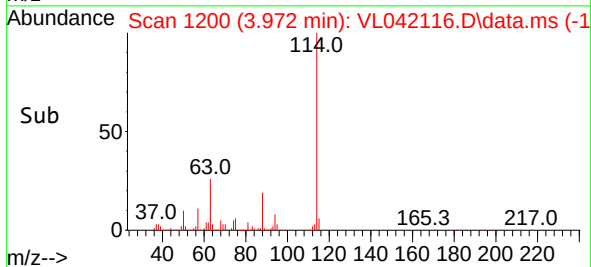
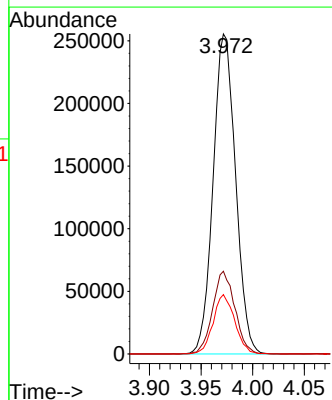
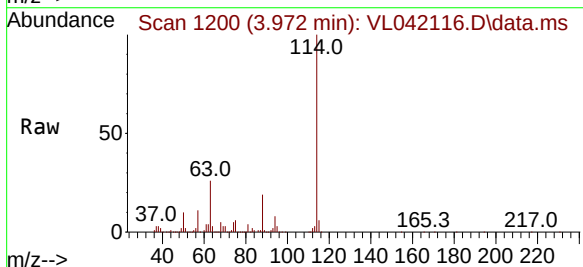
Instrument :
MSVOA_L
ClientSampleId :
VL0310ABL01

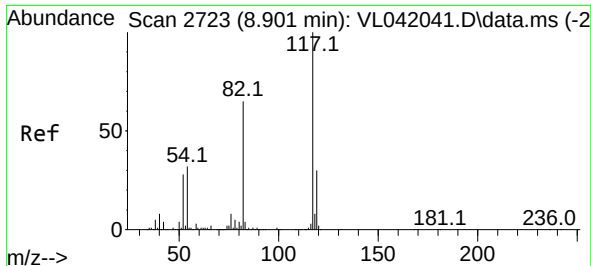
Tgt Ion: 49 Resp: 162394
Ion Ratio Lower Upper
49 100
128 44.2 21.6 64.8
130 56.2 27.8 83.4



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.972 min Scan# 1200
Delta R.T. -0.007 min
Lab File: VL042116.D
Acq: 10 Mar 2025 09:54

Tgt Ion: 114 Resp: 386417
Ion Ratio Lower Upper
114 100
63 25.6 20.1 30.1
88 17.9 14.3 21.5

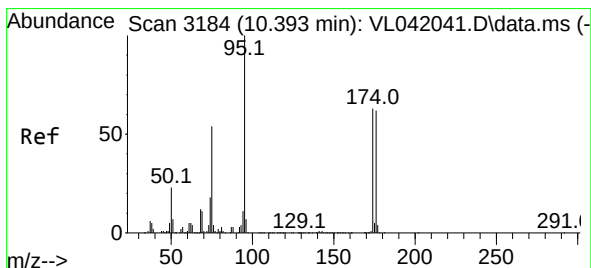
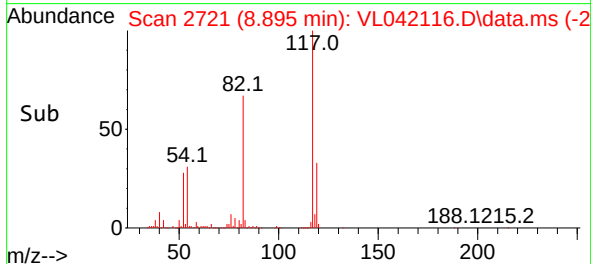
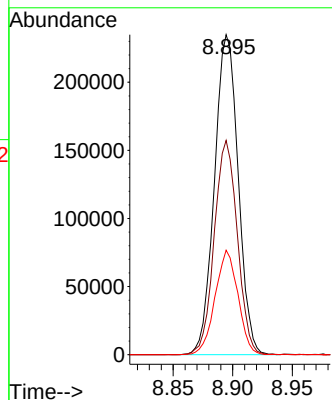
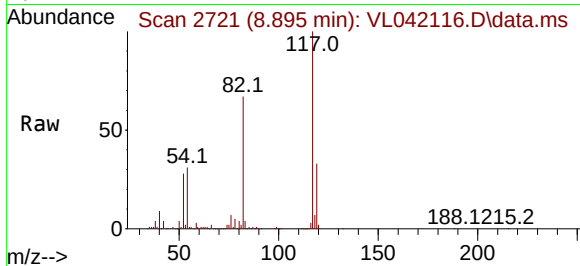




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.895 min Scan# 21
Delta R.T. -0.007 min
Lab File: VL042116.D
Acq: 10 Mar 2025 09:54

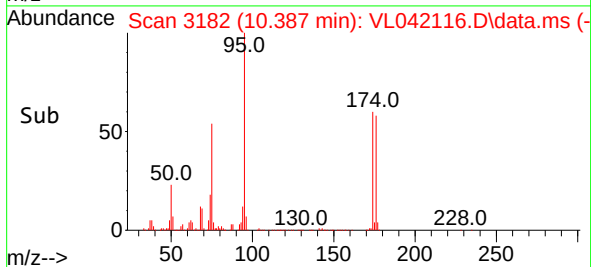
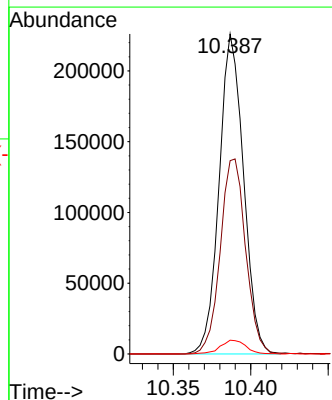
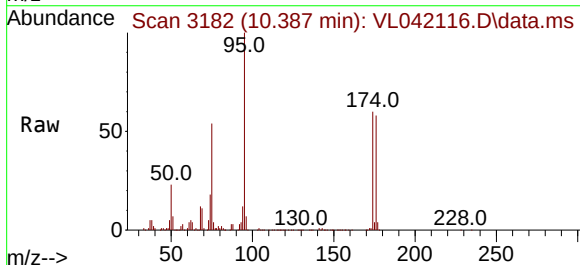
Instrument :
MSVOA_L
ClientSampleId :
VL0310ABL01

Tgt Ion:117 Resp: 325291
Ion Ratio Lower Upper
117 100
82 65.1 55.0 82.6
119 31.5 25.9 38.9



#68
1-Bromo-4-Fluorobenzene
Concen: 9.897 ppbv
RT: 10.387 min Scan# 3182
Delta R.T. -0.007 min
Lab File: VL042116.D
Acq: 10 Mar 2025 09:54

Tgt Ion: 95 Resp: 247682
Ion Ratio Lower Upper
95 100
174 63.7 51.8 77.6
175 4.6 3.9 5.9



Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	404 Bloomfield Ave	Date Received:	
Client Sample ID:	VL0310ABS01	SDG No.:	Q1506
Lab Sample ID:	VL0310ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042117.D	1		03/10/25 10:52	VL031025

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	10.4	26.6		0.030	0.080	ug/m3
75-35-4	1,1-Dichloroethene	9.40	37.3		0.56	1.98	ug/m3
156-59-2	cis-1,2-Dichloroethene	7.90	31.3		0.36	1.98	ug/m3
71-55-6	1,1,1-Trichloroethane	7.90	43.1		0.050	0.16	ug/m3
79-01-6	Trichloroethene	8.40	45.1		0.11	0.16	ug/m3
127-18-4	Tetrachloroethene	8.40	57.0		0.14	0.20	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.6			65 - 135	106%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	169000		2.797			
540-36-3	1,4-Difluorobenzene	400000		3.975			
3114-55-4	Chlorobenzene-d5	350000		8.898			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
 Data File : VL042117.D
 Acq On : 10 Mar 2025 10:52
 Operator : SY/MD
 Sample : VL0310ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0310ABS01

Quant Time: Mar 11 01:21:56 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

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

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	168824	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	400351	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	350466	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.387 95 286905 10.641 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 106.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	178551	10.171	ppbv	97
3) Chlorodifluoromethane	1.479	51	214564	8.745	ppbv	98
4) Chloromethane	1.538	50	65373	10.070	ppbv	96
5) Vinyl Chloride	1.583	62	63789	10.387	ppbv	98
6) Bromomethane	1.670	94	30397	10.395	ppbv	97
7) Chloroethane	1.709	64	25907	10.383	ppbv	90
8) Dichlorotetrafluoroethane	1.557	85	147392	10.213	ppbv	99
9) Propene	1.486	41	84908	8.494	ppbv	98
10) Heptane	5.001	43	253371	8.141	ppbv	100
11) Trichlorofluoromethane	1.884	101	188256	10.702	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.146	101	134259	9.568	ppbv	95
13) Ethanol	1.729	45	3976	6.266	ppbv	93
14) Bromoethene	1.787	108	50688	10.230	ppbv	100
15) Acetone	1.842	43	145391	9.752	ppbv	99
16) 1,3-Butadiene	1.612	39	70201	10.118	ppbv	98
17) tert-Butyl alcohol	2.046	59	159331	8.542	ppbv	99
18) 1,1-Dichloroethene	2.039	96	59693	9.415	ppbv	100
19) Isopropyl Alcohol	1.890	45	79215	9.250	ppbv	93
20) Methylene Chloride	2.068	84	55851	9.904	ppbv	98
21) Allyl Chloride	2.104	41	103366	9.596	ppbv	96
22) trans-1,2-Dichloroethene	2.347	96	73354	9.925	ppbv	95
23) Vinyl Acetate	2.470	43	75186	7.172	ppbv #	97
24) 1,1-Dichloroethane	2.415	63	138556	10.075	ppbv	99
25) Ethyl Acetate	2.845	43	511525	8.572	ppbv	100
26) Hexane	2.836	57	204595	8.480	ppbv	98
27) Carbon Disulfide	2.156	76	158957	9.720	ppbv	98
28) Methyl tert-Butyl Ether	2.450	73	102132	8.503	ppbv	99
29) Chloroform	2.858	83	277421	8.544	ppbv	98
30) Cyclohexane	3.871	84	152583	7.792	ppbv	94
31) cis-1,2-Dichloroethene	2.732	61	179418	7.856	ppbv	98
32) 1,1,1-Trichloroethane	3.379	97	249329	7.916	ppbv	95
34) 2-Butanone	2.567	43	284384	9.118	ppbv	97
35) Carbon Tetrachloride	3.777	117	262027	9.491	ppbv	95
36) Benzene	3.671	78	374551	8.937	ppbv	96
37) 1,2-Dichloroethane	3.230	62	201838	8.686	ppbv	100
38) Trichloroethene	4.564	130	143616	8.392	ppbv	98
39) 1,2-Dichloropropane	4.331	63	141729	8.909	ppbv	99
40) 1,4-Dioxane	4.603	88	60426	8.321	ppbv #	88
41) Tetrahydrofuran	3.069	42	160858	8.728	ppbv	97
42) Bromodichloromethane	4.509	83	283730	9.063	ppbv	95
43) Methyl Methacrylate	4.900	69	137403	8.395	ppbv	97
44) 2,2,4-Trimethylpentane	4.661	57	675434	9.131	ppbv	99
45) t-1,3-Dichloropropene	6.438	75	123548	7.598	ppbv	94

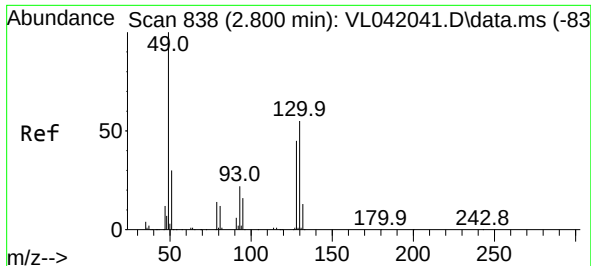
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 Data File : VL042117.D
 Acq On : 10 Mar 2025 10:52
 Operator : SY/MD
 Sample : VL0310ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0310ABS01

Quant Time: Mar 11 01:21:56 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.622	75	169656	8.063	ppbv	98
47) 1,1,2-Trichloroethane	6.603	97	144144	8.925	ppbv	95
48) Dibromochloromethane	7.402	129	226388	8.951	ppbv	99
49) Bromoform	9.496	173	201809	9.188	ppbv	98
50) 4-Methyl-2-Pentanone	5.781	43	387370	9.603	ppbv	97
51) 2-Hexanone	7.454	43	305577	11.007	ppbv #	97
52) Tetrachloroethene	8.241	164	120494	8.398	ppbv	92
53) Toluene	6.952	91	396095	8.456	ppbv	97
54) 1,2-Dibromoethane	7.671	107	190659	8.732	ppbv	92
56) 1,1,1,2-Tetrachloroethane	8.940	131	183026	9.240	ppbv	100
57) Chlorobenzene	8.937	112	336406	9.258	ppbv	95
58) Ethyl Benzene	9.370	91	554446	8.590	ppbv	98
59) m/p-Xylene	9.564	91	925654m	18.022	ppbv	
60) o-Xylene	9.976	91	467382	9.052	ppbv	98
61) Styrene	9.885	104	205606	8.469	ppbv	97
62) Isopropylbenzene	10.552	105	692094	8.950	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.976	83	323193	9.504	ppbv	100
64) n-propylbenzene	11.002	120	184209	9.081	ppbv	99
65) tert-Butylbenzene	11.542	119	620355	8.814	ppbv	99
66) Benzyl Chloride	11.626	91	38948	7.252	ppbv	99
67) sec-Butylbenzene	11.778	105	900003	8.942	ppbv	99
69) p-Isopropyltoluene	11.937	119	732332	9.145	ppbv	99
70) n-Butylbenzene	12.293	91	752707	9.208	ppbv	99
71) 2-Chlorotoluene	10.914	91	514130	8.624	ppbv	99
72) 4-Ethyltoluene	11.137	105	562308	8.919	ppbv	100
73) 1,3,5-Trimethylbenzene	11.215	105	480973	8.795	ppbv	100
74) 1,2,4-Trimethylbenzene	11.549	105	538676	8.747	ppbv	99
75) 1,3-Dichlorobenzene	11.620	146	318968	9.000	ppbv	99
76) 1,4-Dichlorobenzene	11.684	146	315833	8.976	ppbv	99
77) 1,2-Dichlorobenzene	11.960	146	319838	9.299	ppbv	99
78) Hexachloro-1,3-Butadiene	13.892	225	219090	8.187	ppbv	99
79) Naphthalene	13.523	128	472554	11.191	ppbv	100
80) Naphthalene,2-methyl-	14.468	142	153727	13.304	ppbv	97
81) 1,2,4-Trichlorobenzene	13.452	180	210585	8.949	ppbv	99

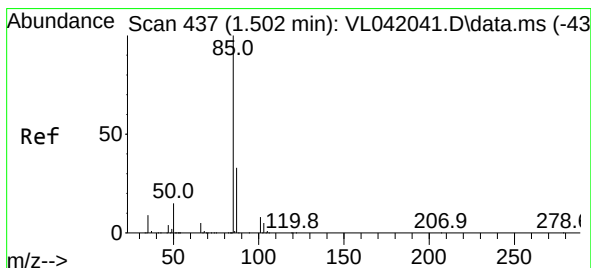
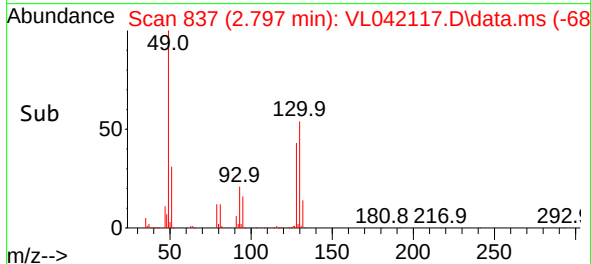
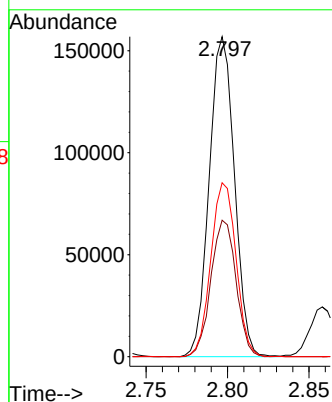
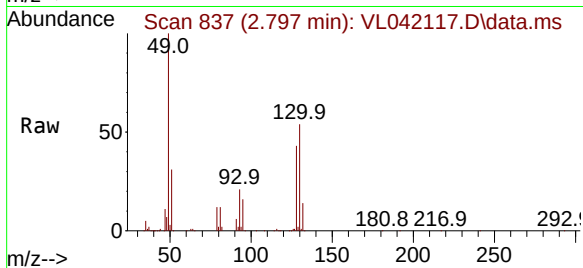
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.797 min Scan# 81
 Delta R.T. -0.003 min
 Lab File: VL042117.D
 Acq: 10 Mar 2025 10:52

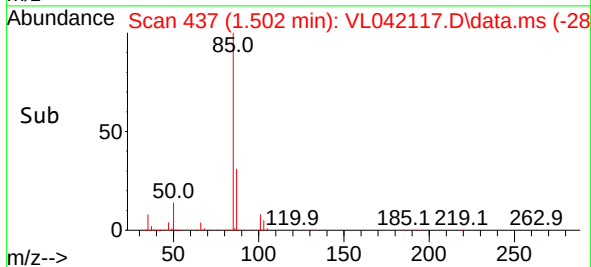
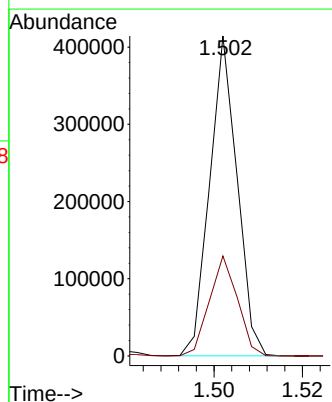
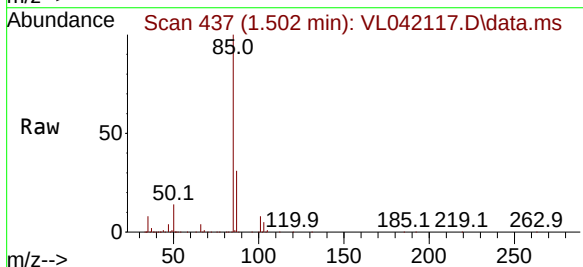
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0310ABS01

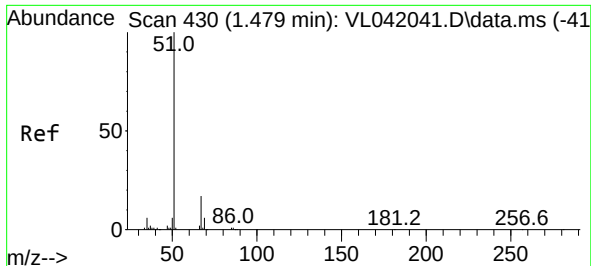
Tgt Ion: 49 Resp: 168824
 Ion Ratio Lower Upper
 49 100
 128 42.6 21.6 64.8
 130 54.3 27.8 83.4



#2
 Dichlorodifluoromethane
 Concen: 10.171 ppbv
 RT: 1.502 min Scan# 437
 Delta R.T. -0.000 min
 Lab File: VL042117.D
 Acq: 10 Mar 2025 10:52

Tgt Ion: 85 Resp: 178551
 Ion Ratio Lower Upper
 85 100
 87 31.3 26.4 39.6

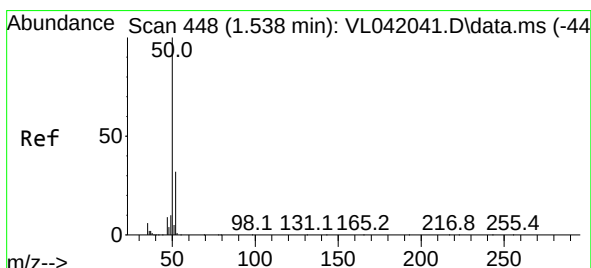
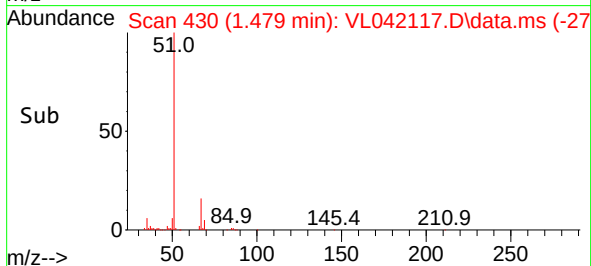
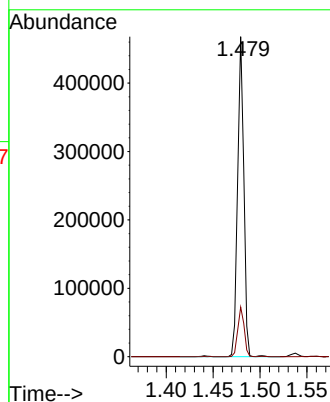
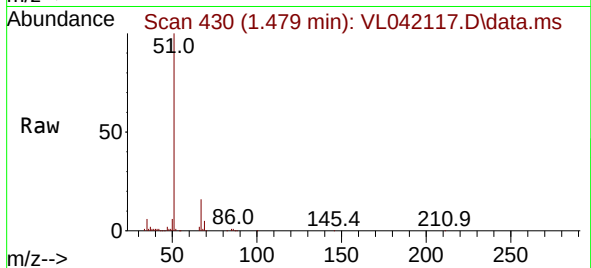




#3
Chlorodifluoromethane
Concen: 8.745 ppbv
RT: 1.479 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

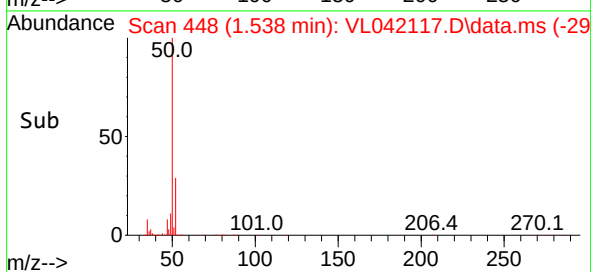
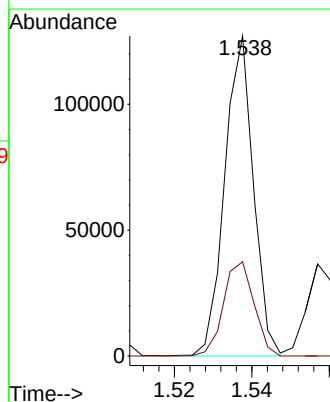
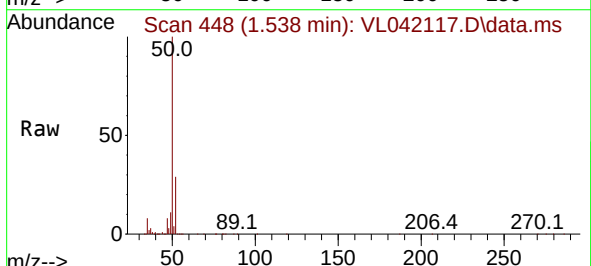
Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

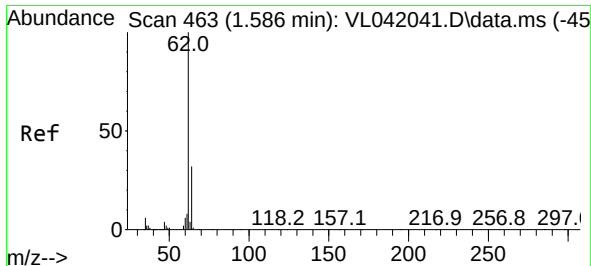
Tgt Ion: 51 Resp: 214564
Ion Ratio Lower Upper
51 100
67 16.2 13.7 20.5



#4
Chloromethane
Concen: 10.070 ppbv
RT: 1.538 min Scan# 448
Delta R.T. -0.000 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 50 Resp: 65373
Ion Ratio Lower Upper
50 100
52 29.5 25.4 38.0

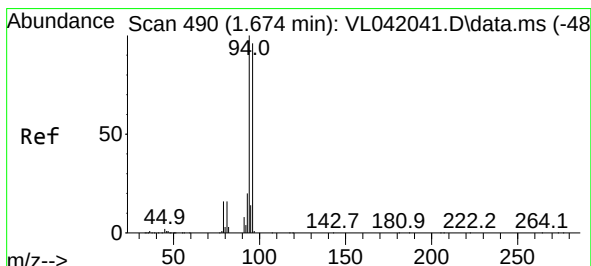
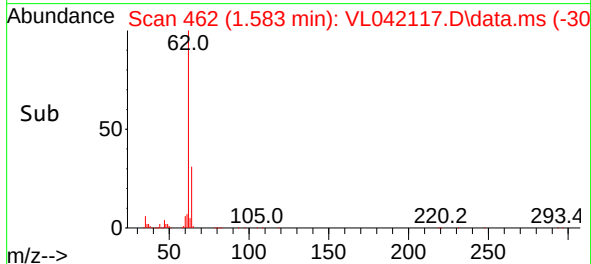
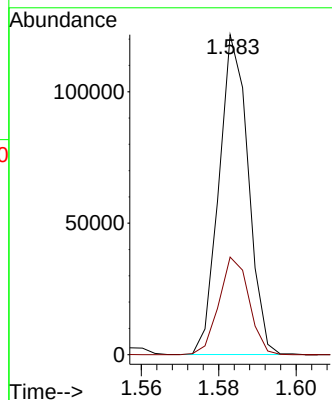
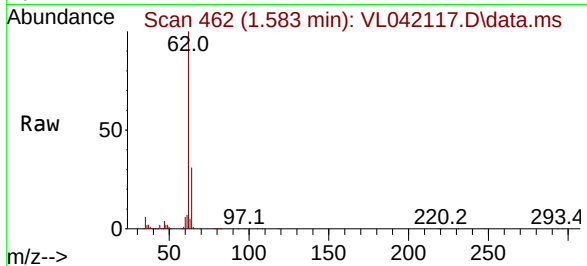




#5
 Vinyl Chloride
 Concen: 10.387 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. -0.003 min
 Lab File: VL042117.D
 Acq: 10 Mar 2025 10:52

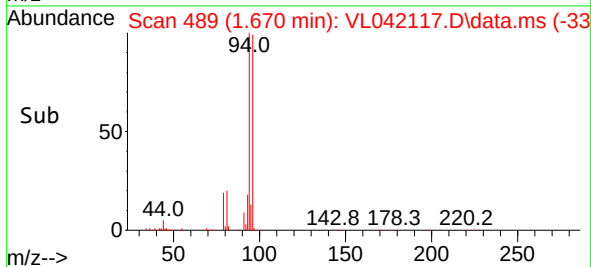
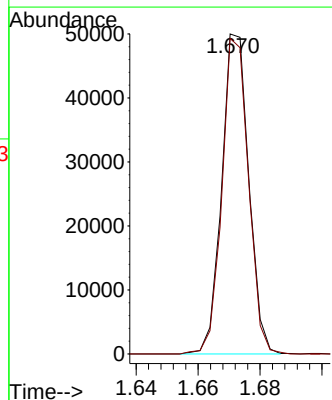
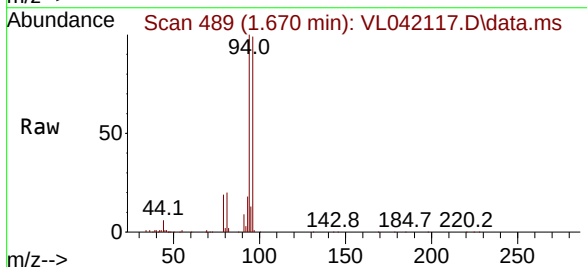
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0310ABS01

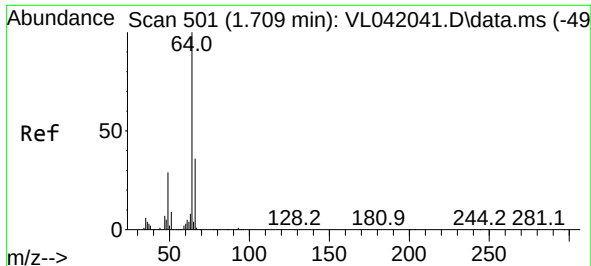
Tgt Ion: 62 Resp: 63789
 Ion Ratio Lower Upper
 62 100
 64 30.6 25.3 37.9



#6
 Bromomethane
 Concen: 10.395 ppbv
 RT: 1.670 min Scan# 489
 Delta R.T. -0.003 min
 Lab File: VL042117.D
 Acq: 10 Mar 2025 10:52

Tgt Ion: 94 Resp: 30397
 Ion Ratio Lower Upper
 94 100
 96 98.7 76.5 114.7

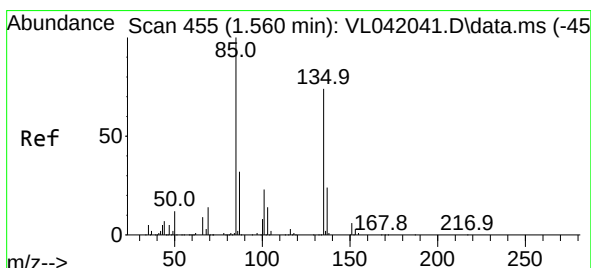
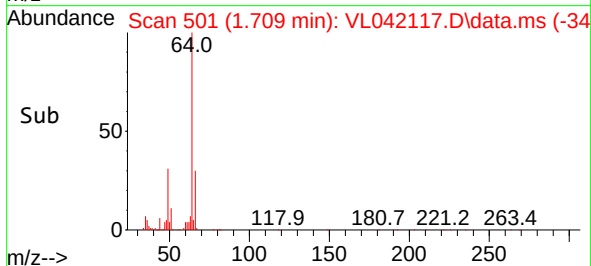
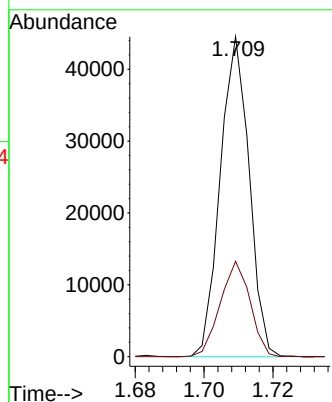
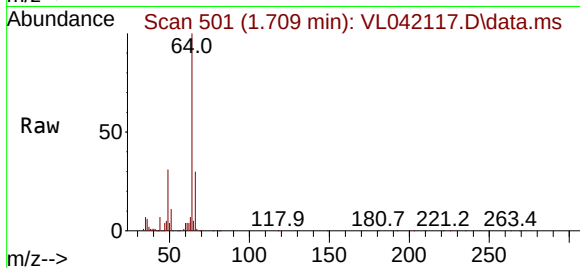




#7
Chloroethane
Concen: 10.383 ppbv
RT: 1.709 min Scan# 501
Delta R.T. -0.000 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

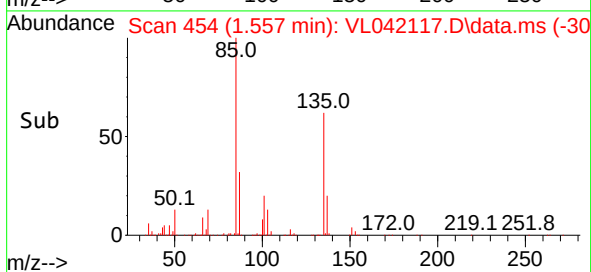
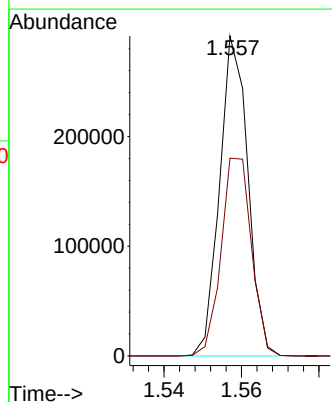
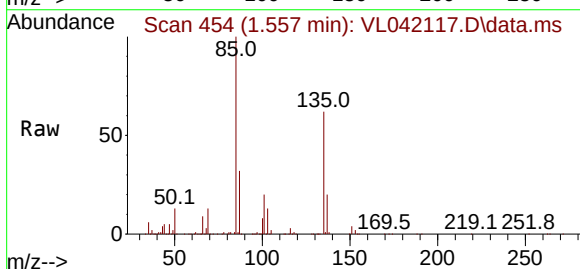
Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

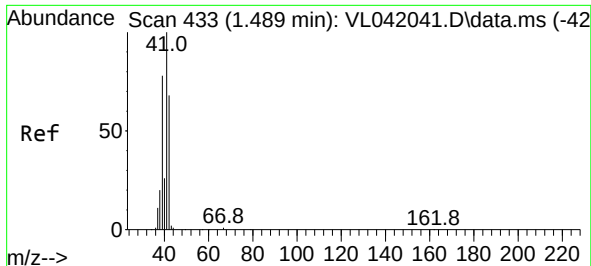
Tgt Ion: 64 Resp: 25907
Ion Ratio Lower Upper
64 100
66 29.8 28.4 42.6



#8
Dichlorotetrafluoroethane
Concen: 10.213 ppbv
RT: 1.557 min Scan# 454
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 85 Resp: 147392
Ion Ratio Lower Upper
85 100
135 67.0 54.6 81.8





#9

Propene

Concen: 8.494 ppbv

RT: 1.486 min Scan# 41

Delta R.T. -0.003 min

Lab File: VL042117.D

Acq: 10 Mar 2025 10:52

Instrument :

MSVOA_L

ClientSampleId :

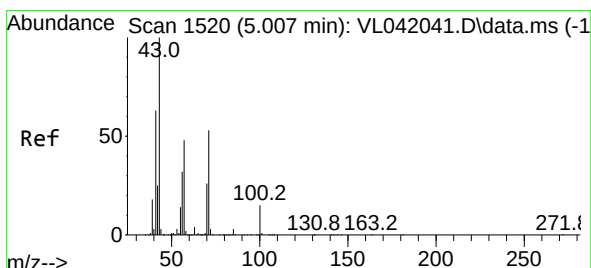
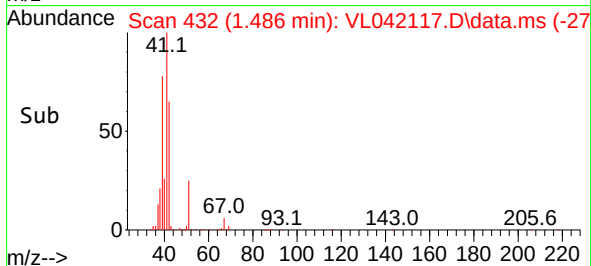
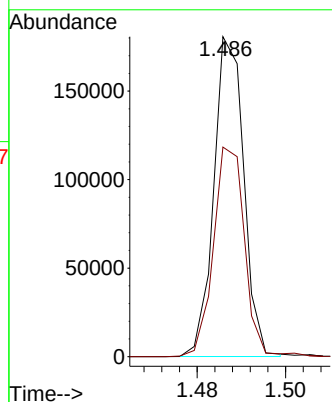
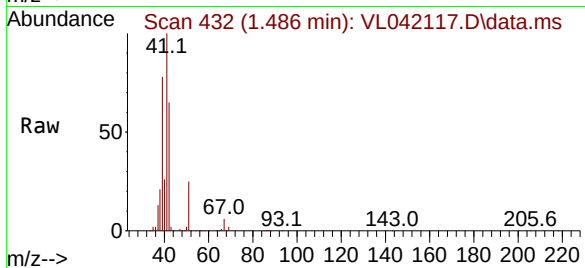
VL0310ABS01

Tgt Ion: 41 Resp: 84908

Ion Ratio Lower Upper

41 100

42 68.5 55.8 83.6



#10

Heptane

Concen: 8.141 ppbv

RT: 5.001 min Scan# 1518

Delta R.T. -0.007 min

Lab File: VL042117.D

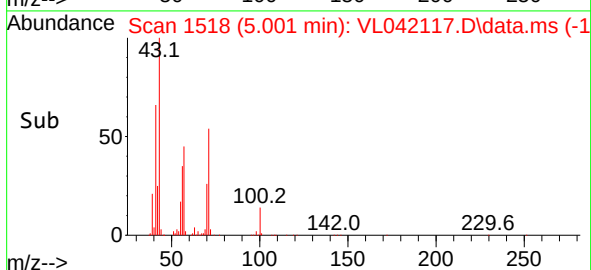
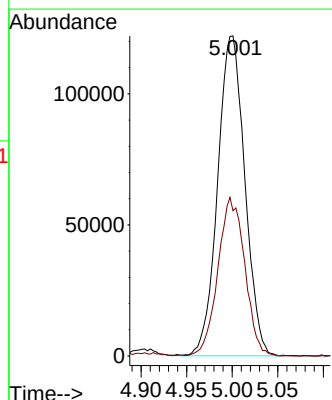
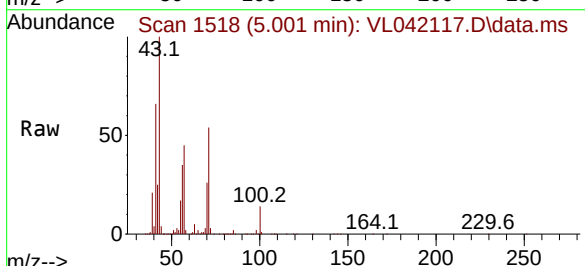
Acq: 10 Mar 2025 10:52

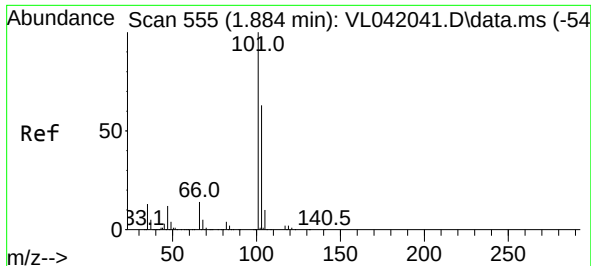
Tgt Ion: 43 Resp: 253371

Ion Ratio Lower Upper

43 100

57 48.9 39.4 59.0

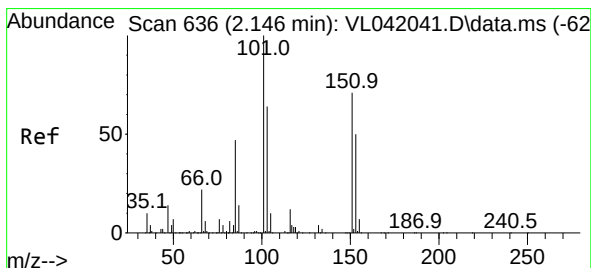
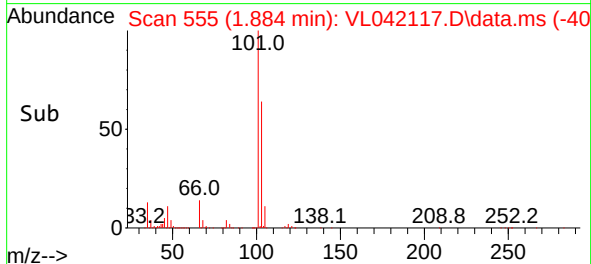
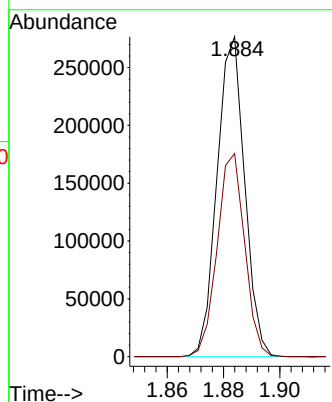
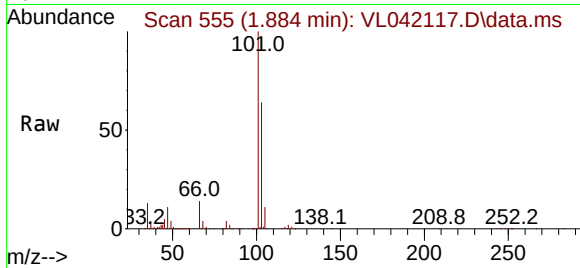




#11
 Trichlorofluoromethane
 Concen: 10.702 ppbv
 RT: 1.884 min Scan# 511
 Delta R.T. -0.000 min
 Lab File: VL042117.D
 Acq: 10 Mar 2025 10:52

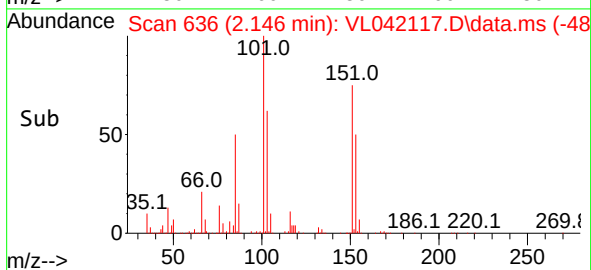
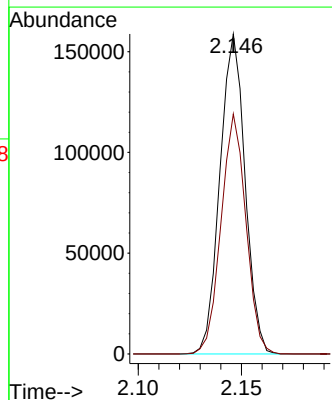
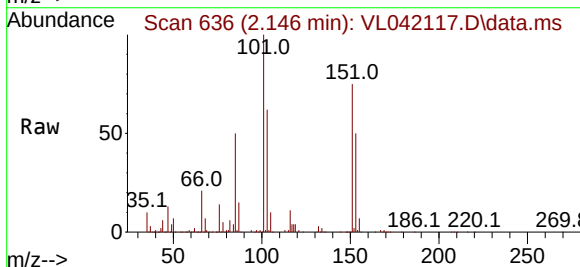
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0310ABS01

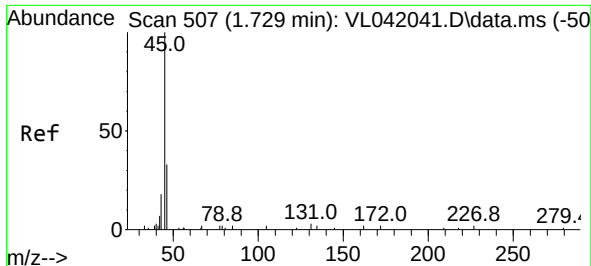
Tgt Ion:101 Resp: 188256
 Ion Ratio Lower Upper
 101 100
 103 63.5 50.6 75.8



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.568 ppbv
 RT: 2.146 min Scan# 636
 Delta R.T. -0.000 min
 Lab File: VL042117.D
 Acq: 10 Mar 2025 10:52

Tgt Ion:101 Resp: 134259
 Ion Ratio Lower Upper
 101 100
 151 74.2 62.6 94.0





#13

Ethanol

Concen: 6.266 ppbv

RT: 1.729 min Scan# 507

Delta R.T. -0.000 min

Lab File: VL042117.D

Acq: 10 Mar 2025 10:52

Instrument :

MSVOA_1

ClientSampleId :

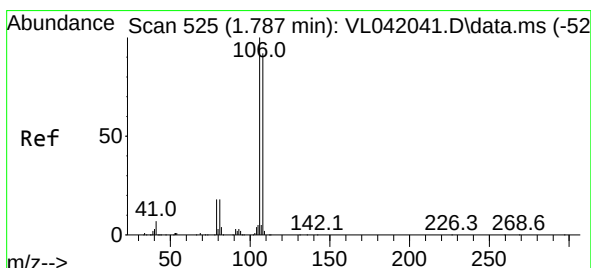
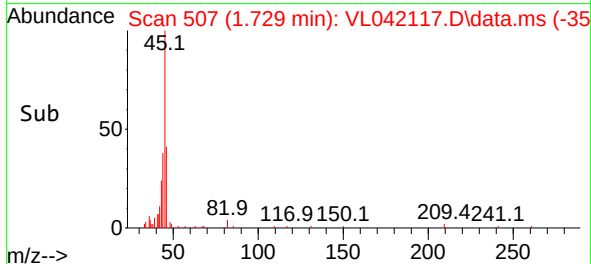
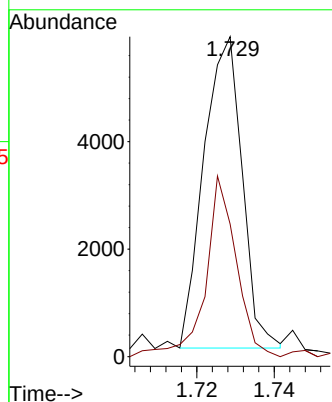
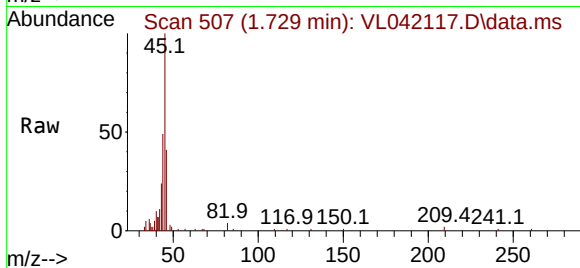
VL0310ABS01

Tgt Ion: 45 Resp: 3976

Ion Ratio Lower Upper

45 100

46 47.4 17.1 68.3



#14

Bromoethene

Concen: 10.230 ppbv

RT: 1.787 min Scan# 525

Delta R.T. -0.000 min

Lab File: VL042117.D

Acq: 10 Mar 2025 10:52

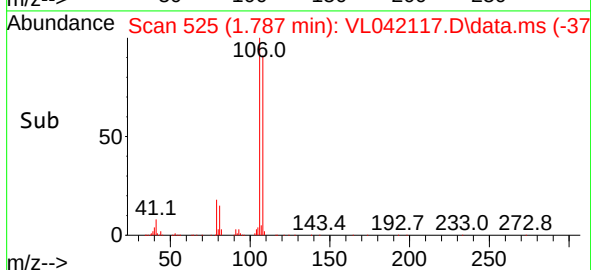
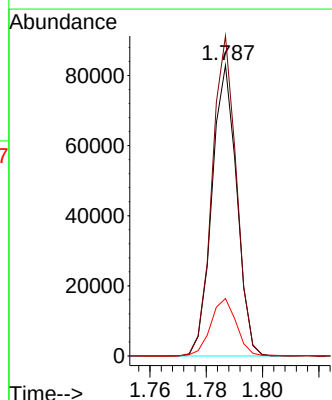
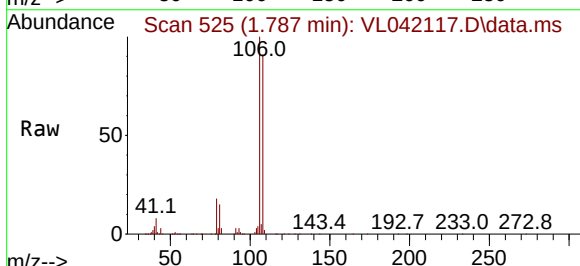
Tgt Ion: 108 Resp: 50688

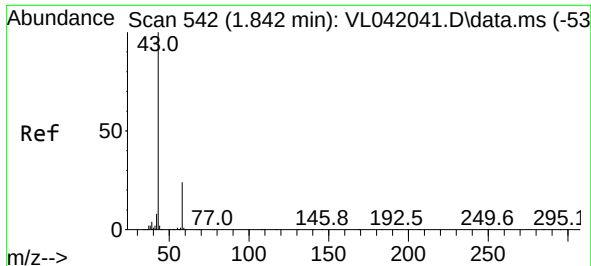
Ion Ratio Lower Upper

108 100

106 107.1 85.4 128.0

79 20.9 16.5 24.7

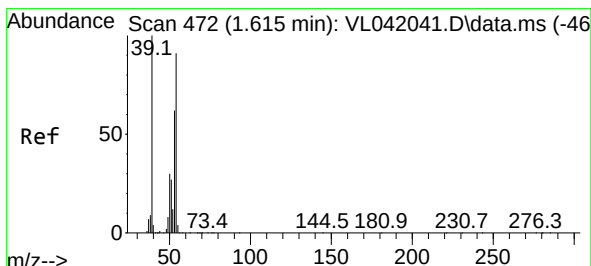
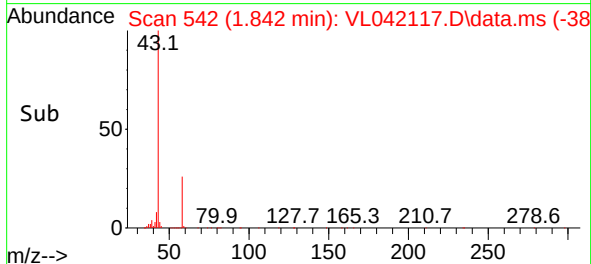
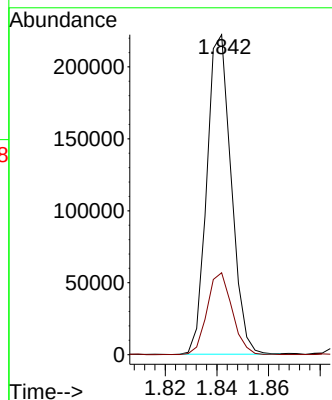
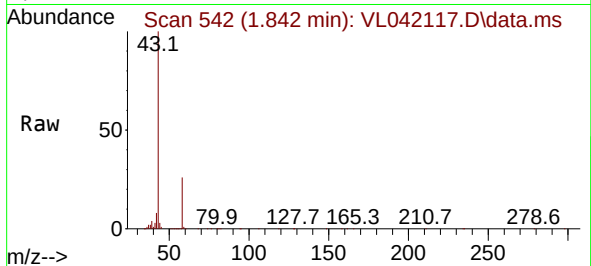




#15
Acetone
Concen: 9.752 ppbv
RT: 1.842 min Scan# 54
Delta R.T. -0.000 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

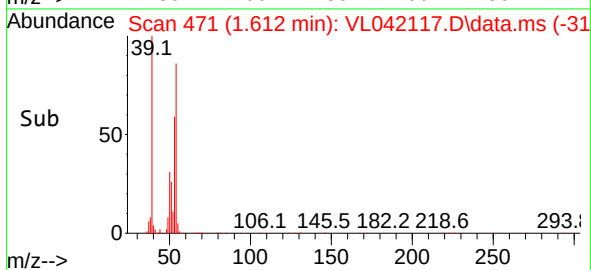
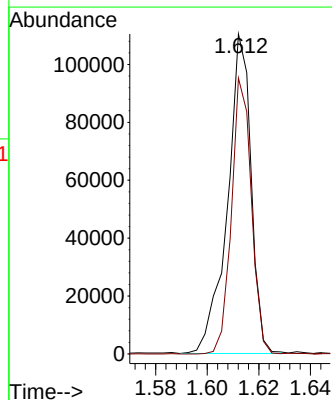
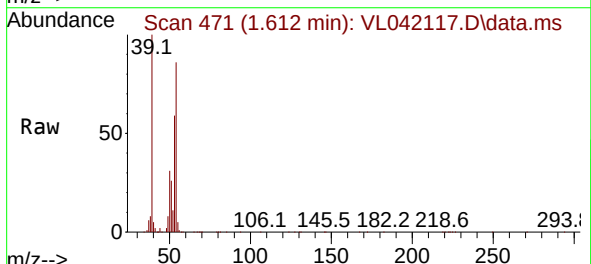
Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

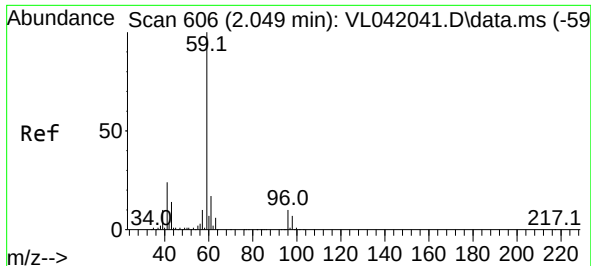
Tgt Ion: 43 Resp: 145391
Ion Ratio Lower Upper
43 100
58 26.6 20.7 31.1



#16
1,3-Butadiene
Concen: 10.118 ppbv
RT: 1.612 min Scan# 471
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 39 Resp: 70201
Ion Ratio Lower Upper
39 100
54 73.0 59.6 89.4





#17

tert-Butyl alcohol

Concen: 8.542 ppbv

RT: 2.046 min Scan# 606

Delta R.T. -0.003 min

Lab File: VL042117.D

Acq: 10 Mar 2025 10:52

Instrument :

MSVOA_L

ClientSampleId :

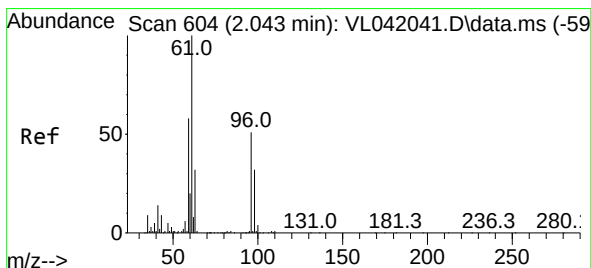
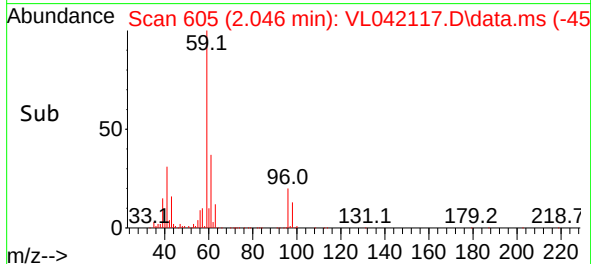
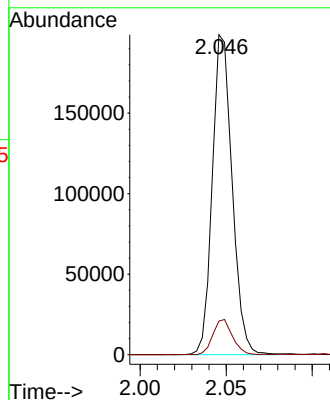
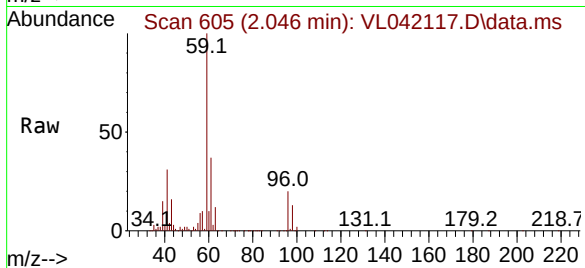
VL0310ABS01

Tgt Ion: 59 Resp: 159331

Ion Ratio Lower Upper

59 100

57 11.2 9.3 13.9



#18

1,1-Dichloroethene

Concen: 9.415 ppbv

RT: 2.039 min Scan# 603

Delta R.T. -0.003 min

Lab File: VL042117.D

Acq: 10 Mar 2025 10:52

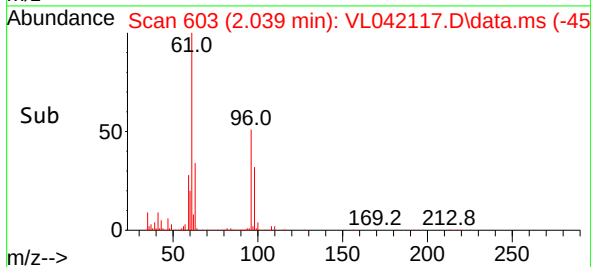
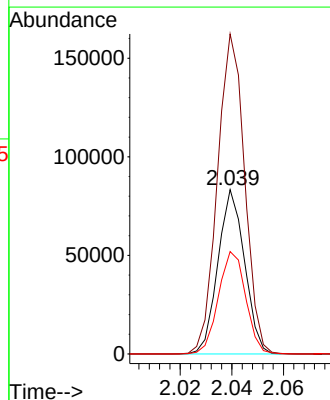
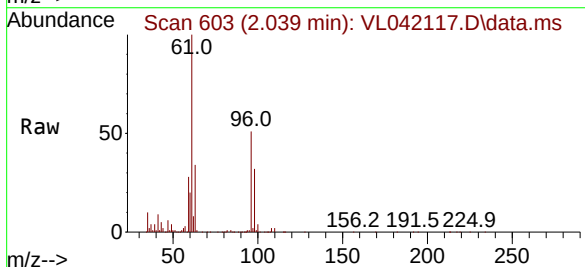
Tgt Ion: 96 Resp: 59693

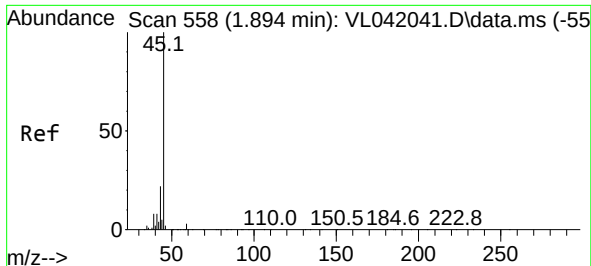
Ion Ratio Lower Upper

96 100

61 194.5 156.0 234.0

98 62.3 49.4 74.2

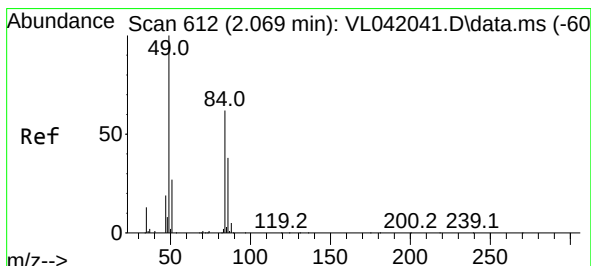
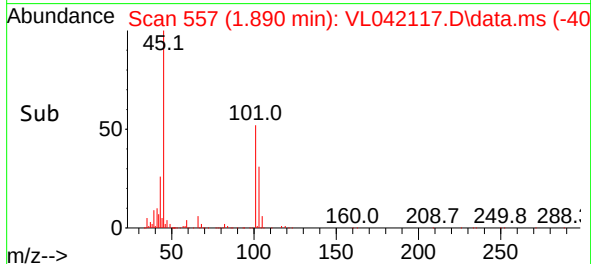
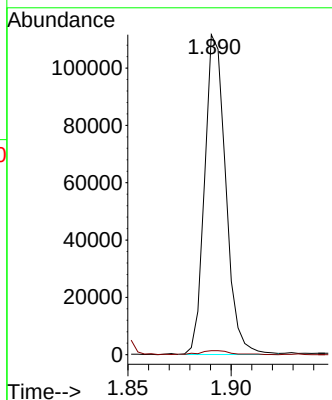
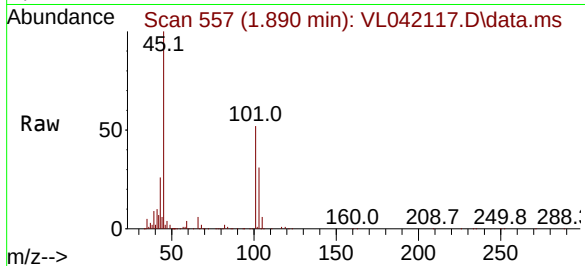




#19
Isopropyl Alcohol
Concen: 9.250 ppbv
RT: 1.890 min Scan# 511
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

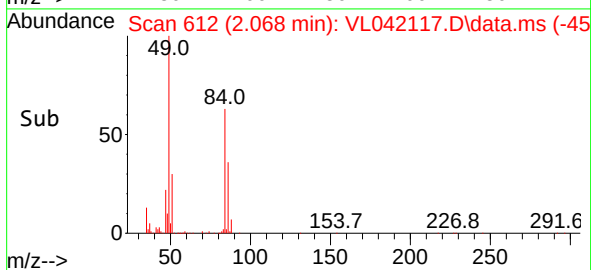
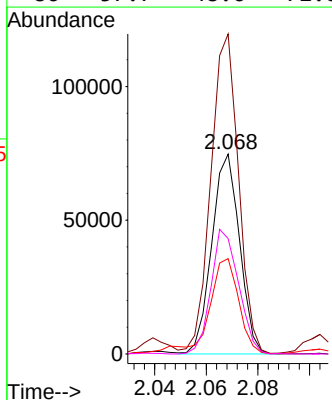
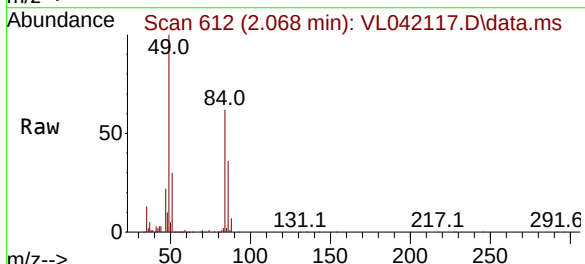
Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

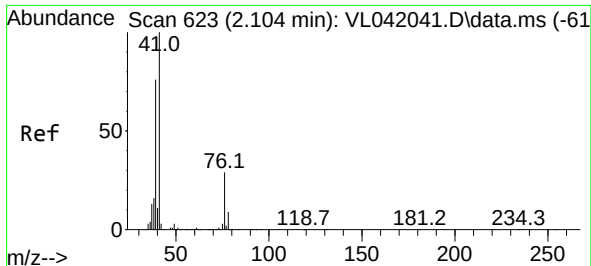
Tgt Ion: 45 Resp: 79215
Ion Ratio Lower Upper
45 100
58 49.0 35.3 52.9



#20
Methylene Chloride
Concen: 9.904 ppbv
RT: 2.068 min Scan# 612
Delta R.T. -0.000 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 84 Resp: 55851
Ion Ratio Lower Upper
84 100
49 159.7 130.0 195.0
51 47.6 37.4 56.0
86 57.7 48.6 72.8

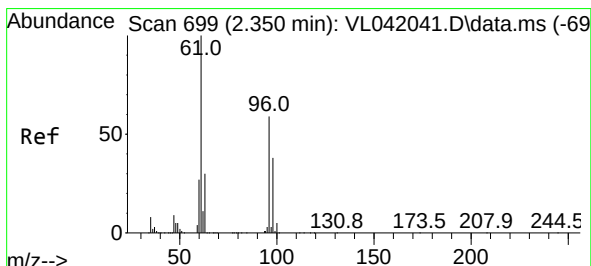
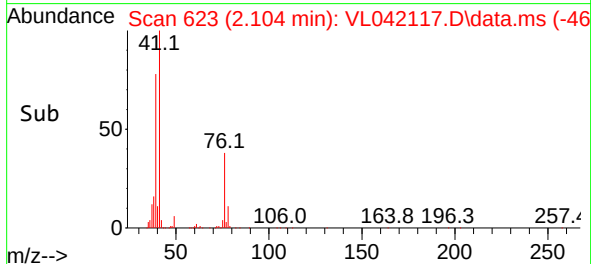
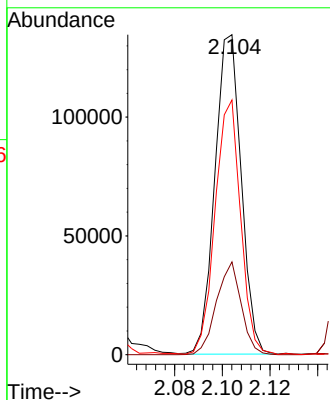
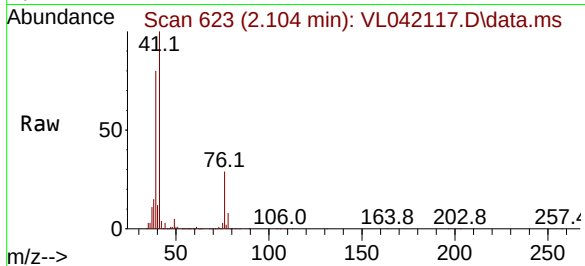




#21
 Allyl Chloride
 Concen: 9.596 ppbv
 RT: 2.104 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: VL042117.D
 Acq: 10 Mar 2025 10:52

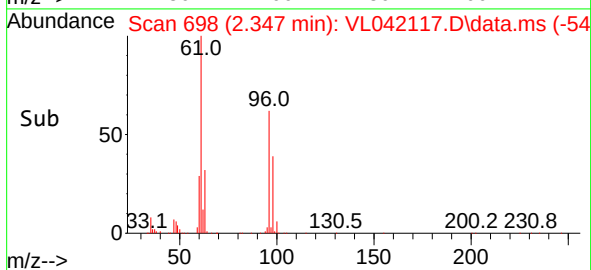
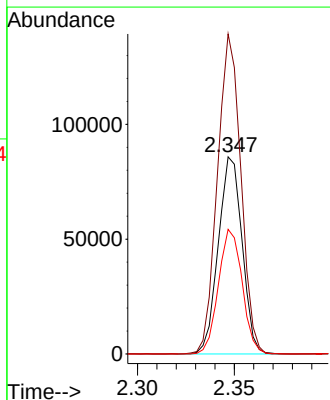
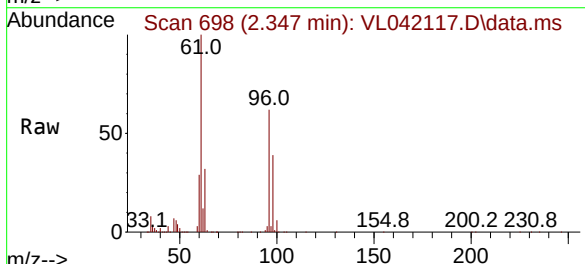
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0310ABS01

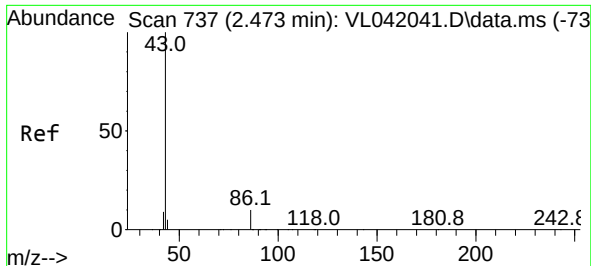
Tgt Ion: 41 Resp: 103366
 Ion Ratio Lower Upper
 41 100
 76 27.2 23.8 35.6
 39 76.6 63.8 95.6



#22
 trans-1,2-Dichloroethene
 Concen: 9.925 ppbv
 RT: 2.347 min Scan# 698
 Delta R.T. -0.003 min
 Lab File: VL042117.D
 Acq: 10 Mar 2025 10:52

Tgt Ion: 96 Resp: 73354
 Ion Ratio Lower Upper
 96 100
 61 162.4 136.6 205.0
 98 63.2 51.8 77.6

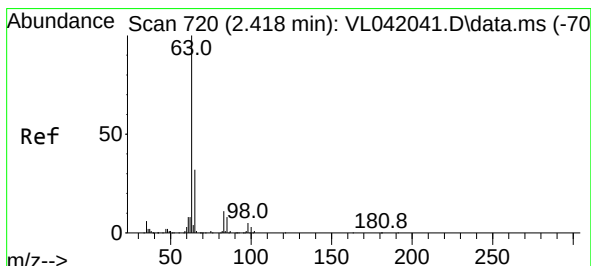
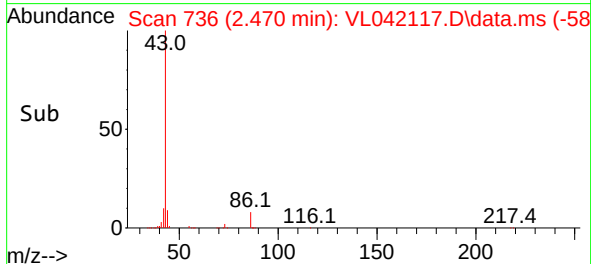
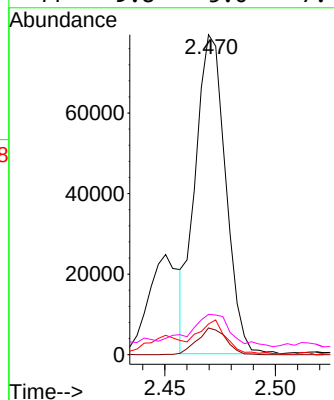
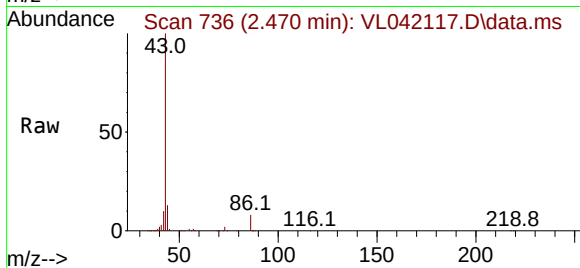




#23
 Vinyl Acetate
 Concen: 7.172 ppbv
 RT: 2.470 min Scan# 719
 Delta R.T. -0.003 min
 Lab File: VL042117.D
 Acq: 10 Mar 2025 10:52

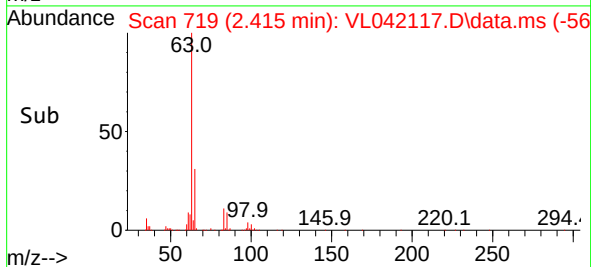
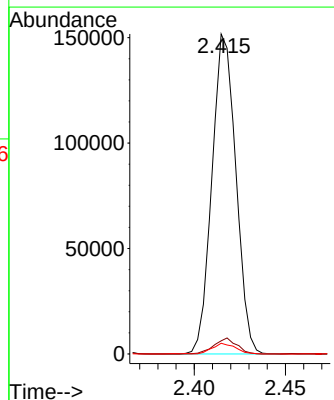
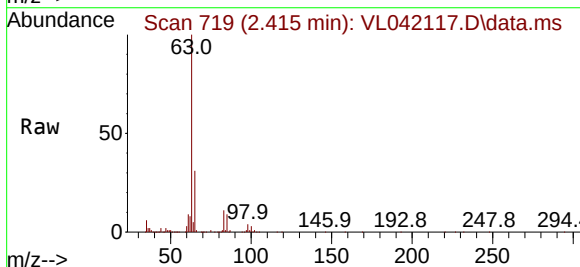
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0310ABS01

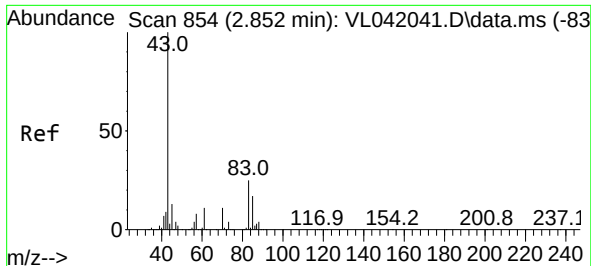
Tgt Ion:	43	Resp:	75186
Ion	Ratio	Lower	Upper
43	100		
86	8.5	7.0	10.4
42	9.3	7.6	11.4
44	9.8	5.0	7.4



#24
 1,1-Dichloroethane
 Concen: 10.075 ppbv
 RT: 2.415 min Scan# 719
 Delta R.T. -0.003 min
 Lab File: VL042117.D
 Acq: 10 Mar 2025 10:52

Tgt Ion:	63	Resp:	138556
Ion	Ratio	Lower	Upper
63	100		
98	4.1	2.4	7.2
100	3.4	1.7	5.0



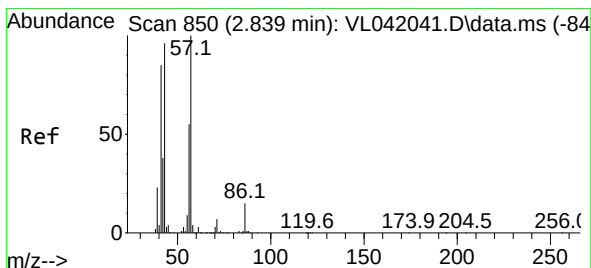
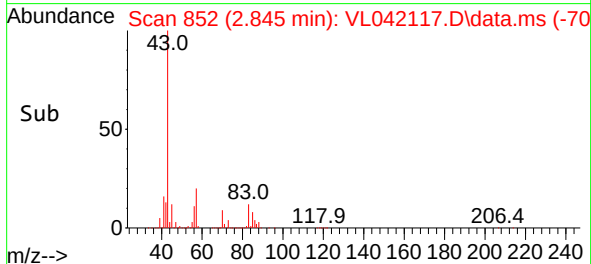
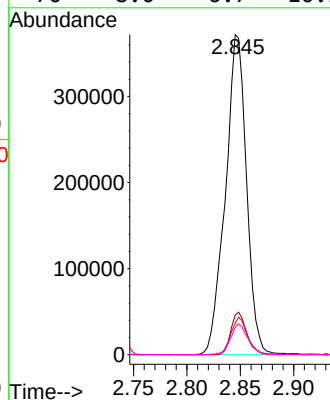
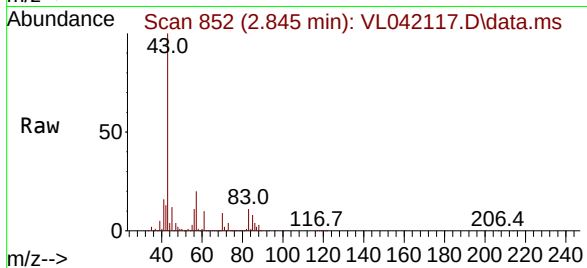


#25
Ethyl Acetate
Concen: 8.572 ppbv
RT: 2.845 min Scan# 811
Delta R.T. -0.007 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Tgt Ion: 43 Resp: 511525

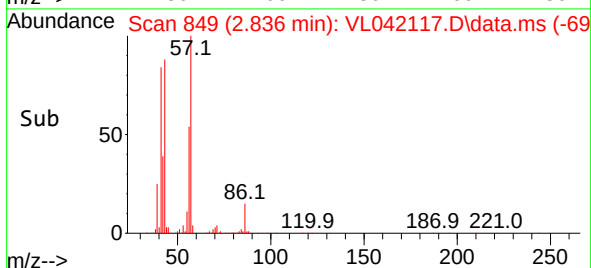
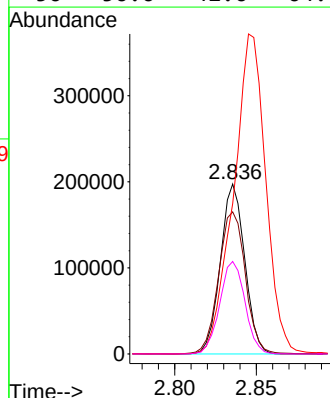
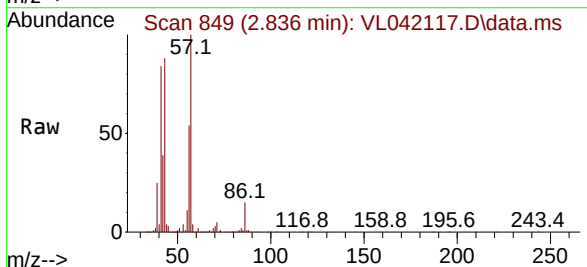
Ion	Ratio	Lower	Upper
43	100		
45	10.1	8.1	12.1
61	9.0	7.2	10.8
70	8.0	6.7	10.1

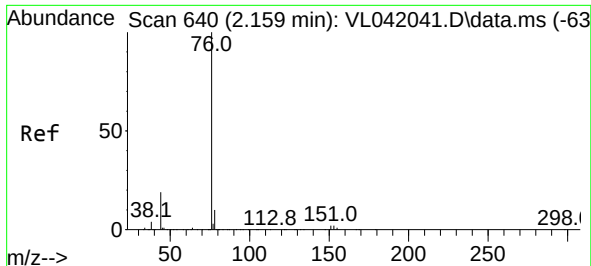


#26
Hexane
Concen: 8.480 ppbv
RT: 2.836 min Scan# 849
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 57 Resp: 204595

Ion	Ratio	Lower	Upper
57	100		
41	92.9	70.6	106.0
43	251.1	199.4	299.0
56	56.6	42.6	64.0

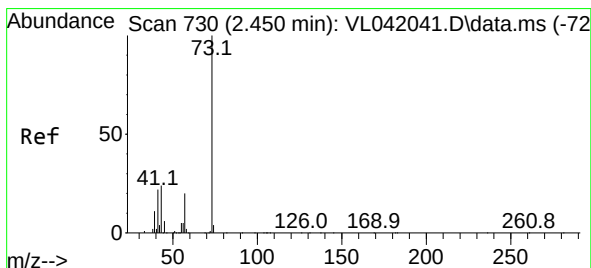
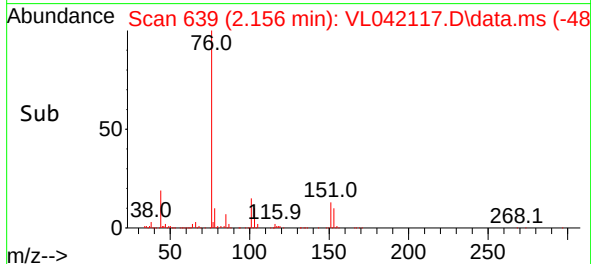
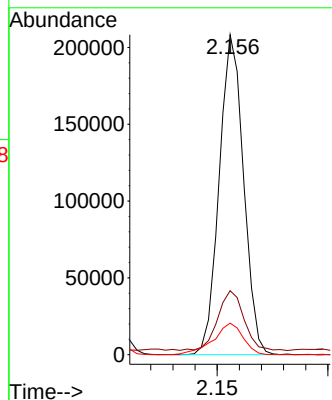
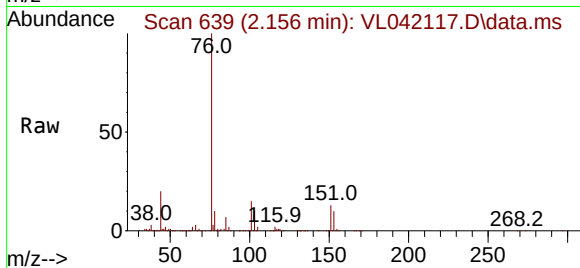




#27
Carbon Disulfide
Concen: 9.720 ppbv
RT: 2.156 min Scan# 61
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

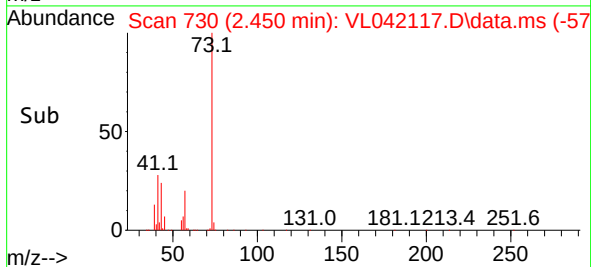
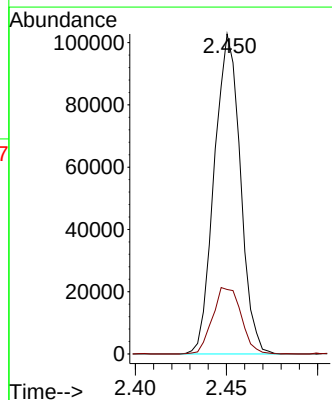
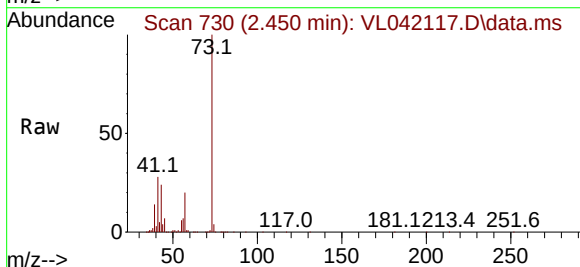
Instrument :
MSVOA_1
ClientSampleId :
VL0310ABS01

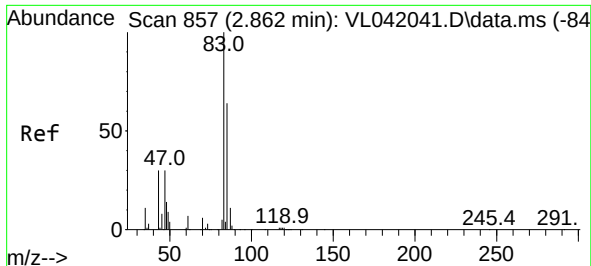
Tgt Ion: 76 Resp: 158957
Ion Ratio Lower Upper
76 100
44 21.4 16.2 24.2
78 12.0 9.4 14.0



#28
Methyl tert-Butyl Ether
Concen: 8.503 ppbv
RT: 2.450 min Scan# 730
Delta R.T. -0.000 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 73 Resp: 102132
Ion Ratio Lower Upper
73 100
57 22.8 17.7 26.5





#29

Chloroform

Concen: 8.544 ppbv

RT: 2.858 min Scan# 81

Delta R.T. -0.003 min

Lab File: VL042117.D

Acq: 10 Mar 2025 10:52

Instrument :

MSVOA_L

ClientSampleId :

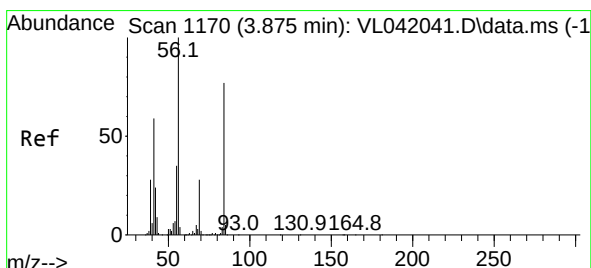
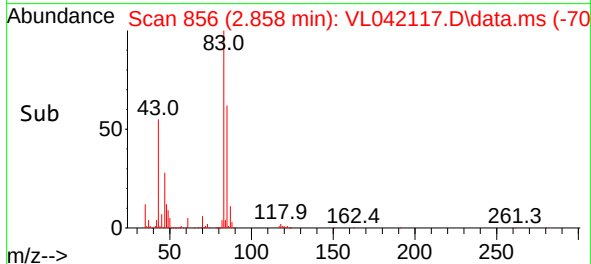
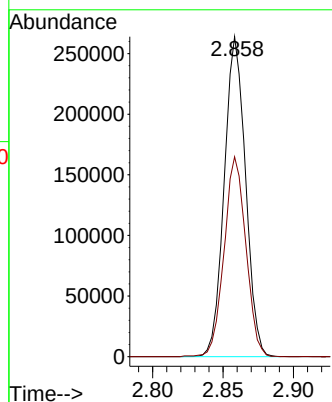
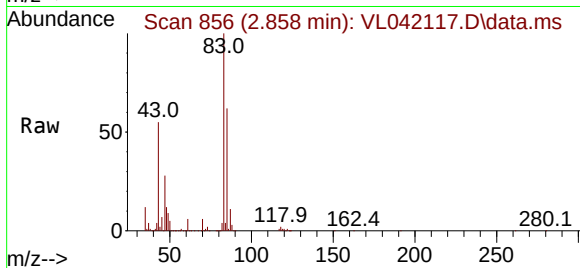
VL0310ABS01

Tgt Ion: 83 Resp: 277421

Ion Ratio Lower Upper

83 100

85 62.4 51.2 76.8



#30

Cyclohexane

Concen: 7.792 ppbv

RT: 3.871 min Scan# 1169

Delta R.T. -0.003 min

Lab File: VL042117.D

Acq: 10 Mar 2025 10:52

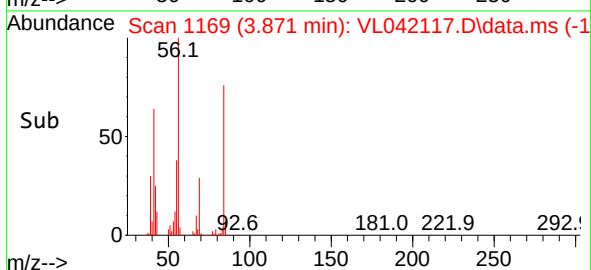
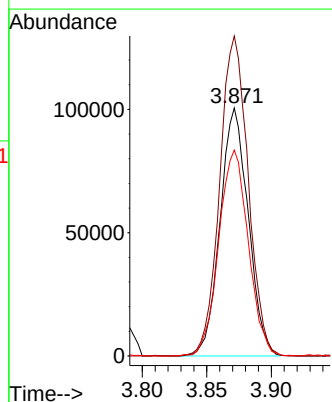
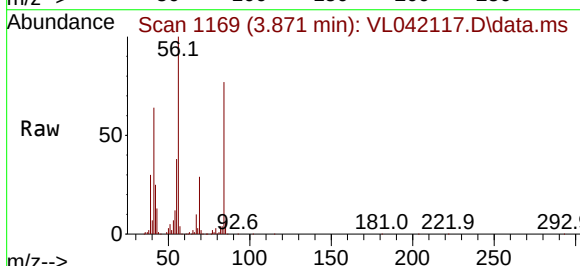
Tgt Ion: 84 Resp: 152583

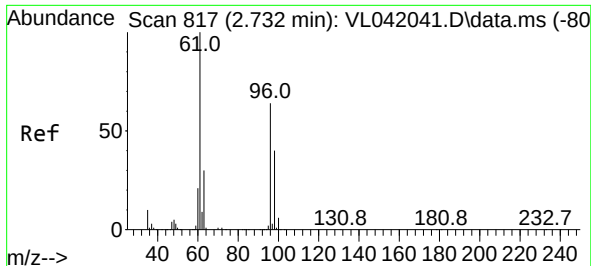
Ion Ratio Lower Upper

84 100

56 130.3 101.5 152.3

41 87.1 62.6 93.8

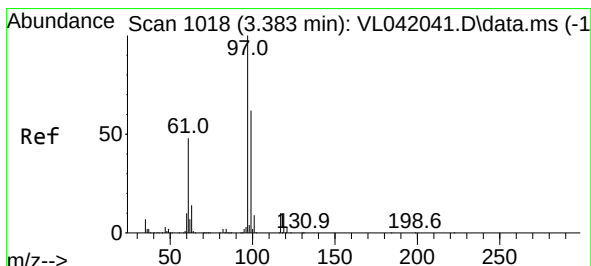
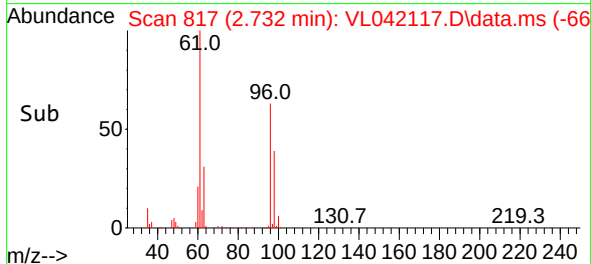
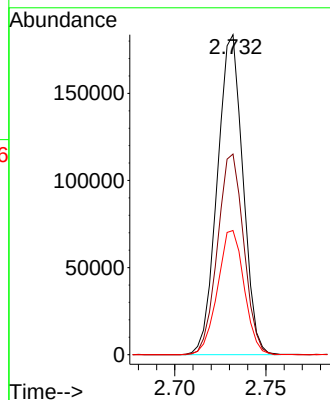
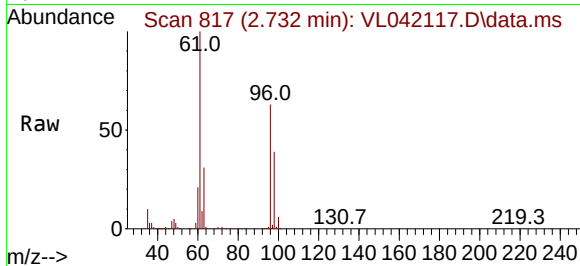




#31
 cis-1,2-Dichloroethene
 Concen: 7.856 ppbv
 RT: 2.732 min Scan# 817
 Delta R.T. -0.000 min
 Lab File: VL042117.D
 Acq: 10 Mar 2025 10:52

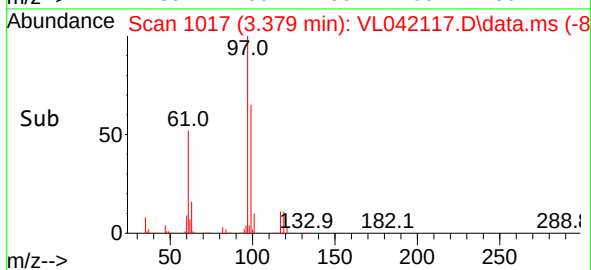
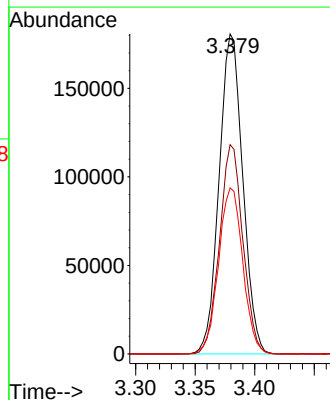
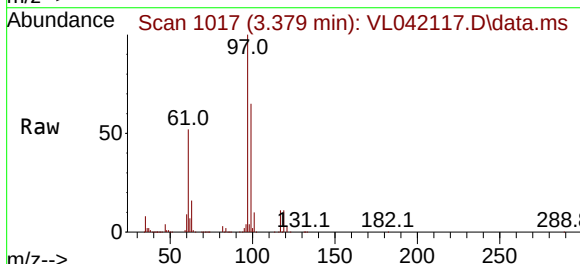
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0310ABS01

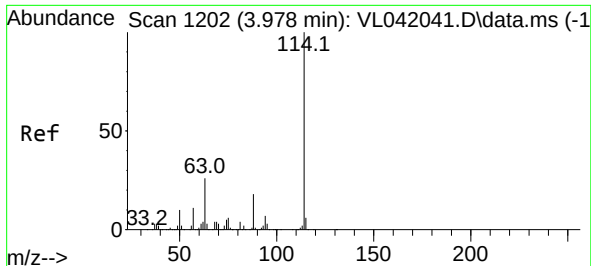
Tgt Ion: 61 Resp: 179418
 Ion Ratio Lower Upper
 61 100
 96 62.7 51.5 77.3
 98 38.8 32.0 48.0



#32
 1,1,1-Trichloroethane
 Concen: 7.916 ppbv
 RT: 3.379 min Scan# 1017
 Delta R.T. -0.003 min
 Lab File: VL042117.D
 Acq: 10 Mar 2025 10:52

Tgt Ion: 97 Resp: 249329
 Ion Ratio Lower Upper
 97 100
 99 64.5 49.8 74.6
 61 53.2 38.9 58.3





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.975 min Scan# 11

Delta R.T. -0.003 min

Lab File: VL042117.D

Acq: 10 Mar 2025 10:52

Instrument :

MSVOA_L

ClientSampleId :

VL0310ABS01

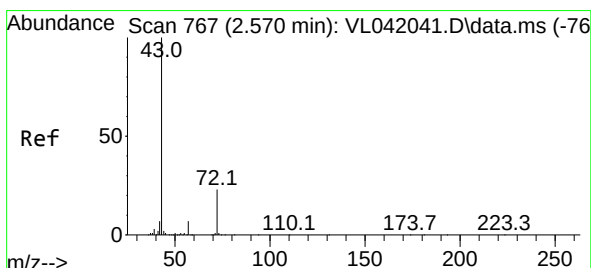
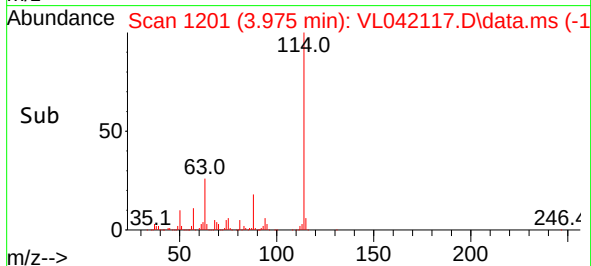
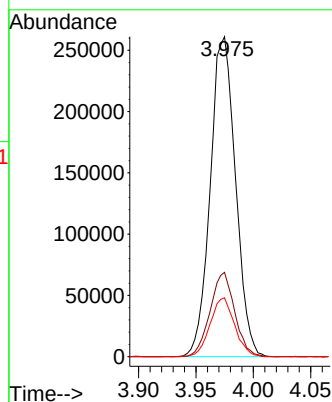
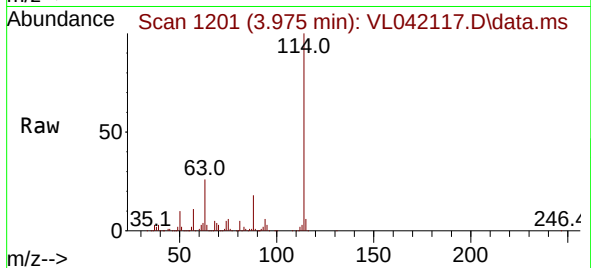
Tgt Ion:114 Resp: 400351

Ion Ratio Lower Upper

114 100

63 25.7 20.1 30.1

88 17.8 14.3 21.5



#34

2-Butanone

Concen: 9.118 ppbv

RT: 2.567 min Scan# 766

Delta R.T. -0.003 min

Lab File: VL042117.D

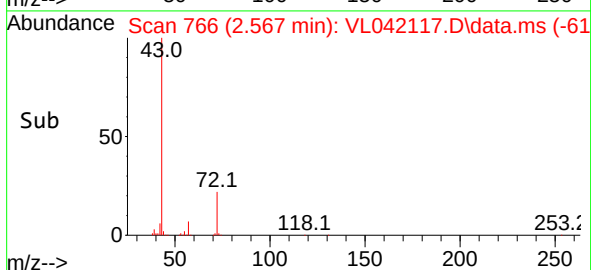
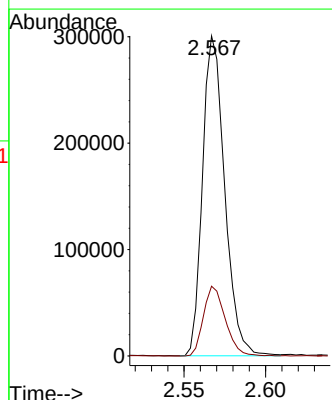
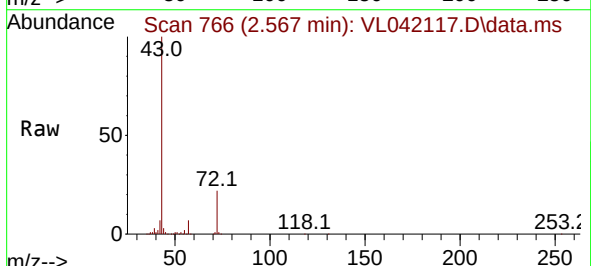
Acq: 10 Mar 2025 10:52

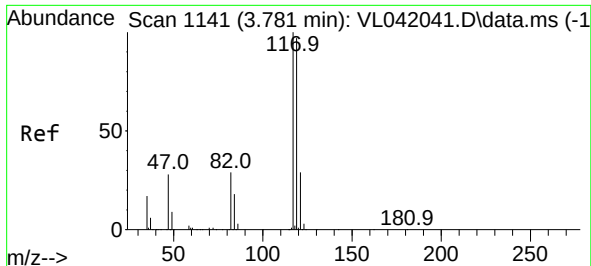
Tgt Ion: 43 Resp: 284384

Ion Ratio Lower Upper

43 100

72 21.6 18.5 27.7

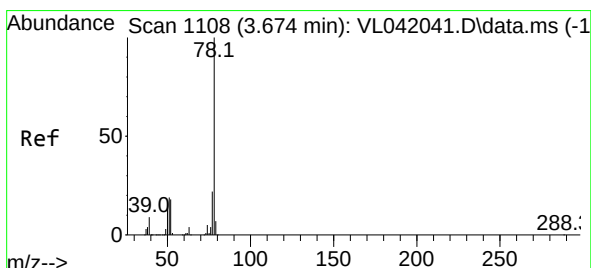
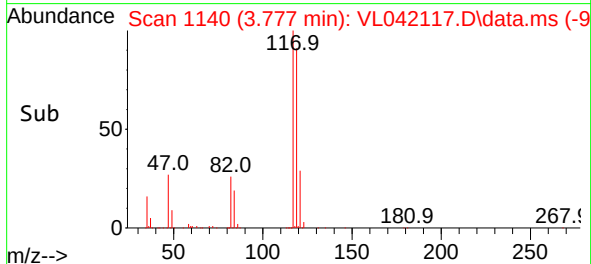
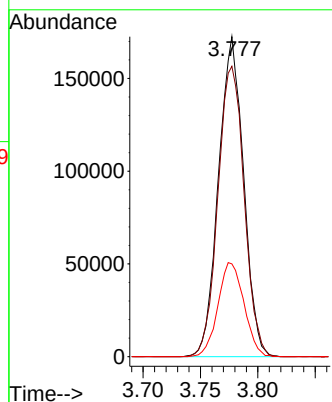
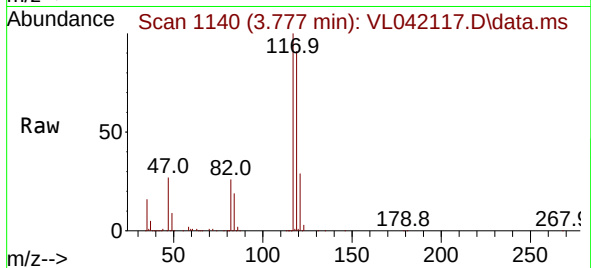




#35
Carbon Tetrachloride
Concen: 9.491 ppbv
RT: 3.777 min Scan# 1140
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

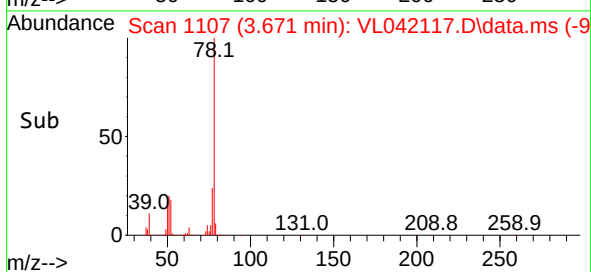
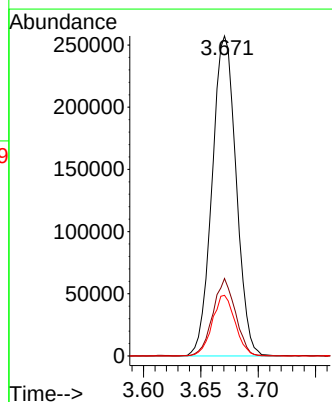
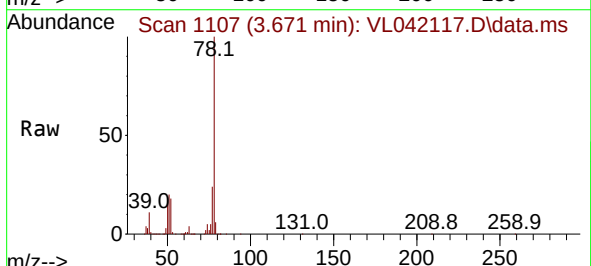
Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

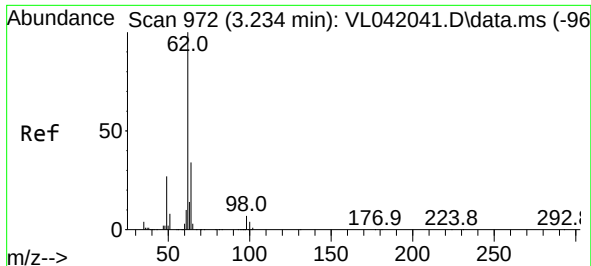
Tgt Ion:117 Resp: 262027
Ion Ratio Lower Upper
117 100
119 90.7 77.8 116.8
121 29.0 23.4 35.0



#36
Benzene
Concen: 8.937 ppbv
RT: 3.671 min Scan# 1107
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 78 Resp: 374551
Ion Ratio Lower Upper
78 100
77 24.1 17.7 26.5
50 18.9 13.9 20.9





#37

1,2-Dichloroethane

Concen: 8.686 ppbv

RT: 3.230 min Scan# 91

Delta R.T. -0.003 min

Lab File: VL042117.D

Acq: 10 Mar 2025 10:52

Instrument :

MSVOA_L

ClientSampleId :

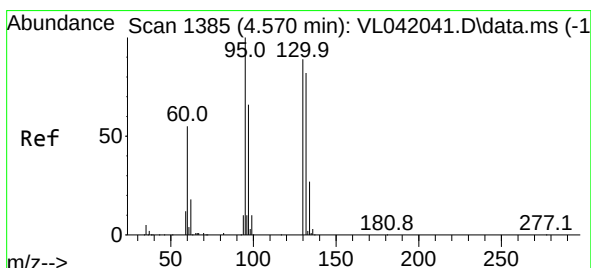
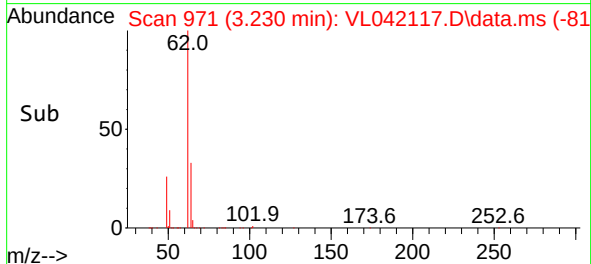
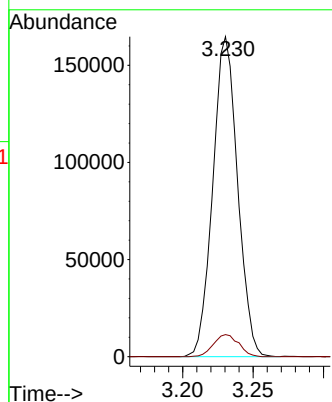
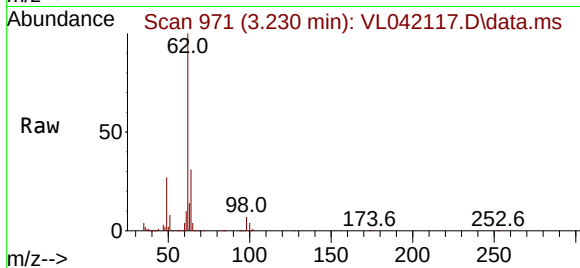
VL0310ABS01

Tgt Ion: 62 Resp: 201838

Ion Ratio Lower Upper

62 100

98 7.0 5.7 8.5



#38

Trichloroethene

Concen: 8.392 ppbv

RT: 4.564 min Scan# 1383

Delta R.T. -0.007 min

Lab File: VL042117.D

Acq: 10 Mar 2025 10:52

Tgt Ion:130 Resp: 143616

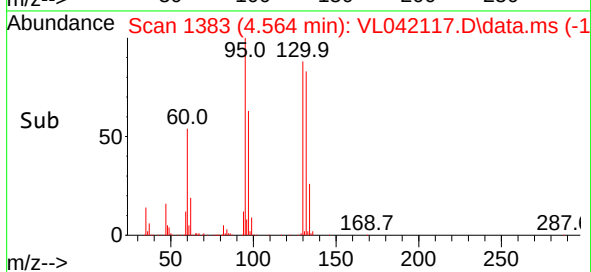
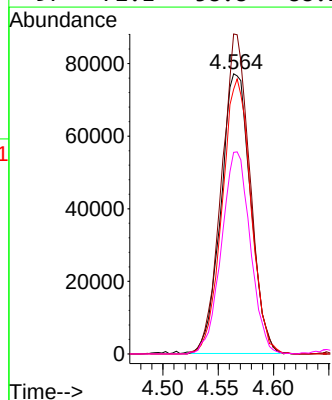
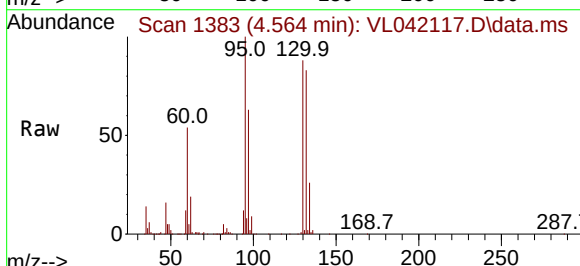
Ion Ratio Lower Upper

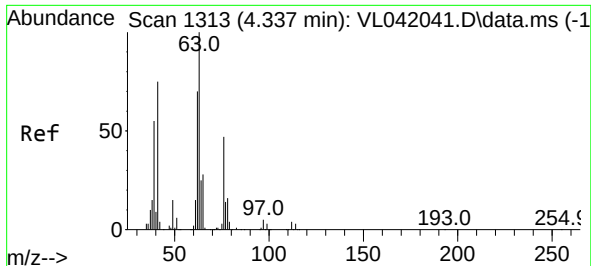
130 100

95 114.4 89.5 134.3

132 94.6 73.8 110.6

97 72.1 58.8 88.2





#39

1,2-Dichloropropane

Concen: 8.909 ppbv

RT: 4.331 min Scan# 1311

Delta R.T. -0.007 min

Lab File: VL042117.D

Acq: 10 Mar 2025 10:52

Instrument :

MSVOA_L

ClientSampleId :

VL0310ABS01

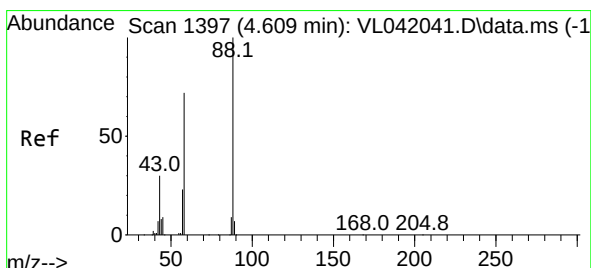
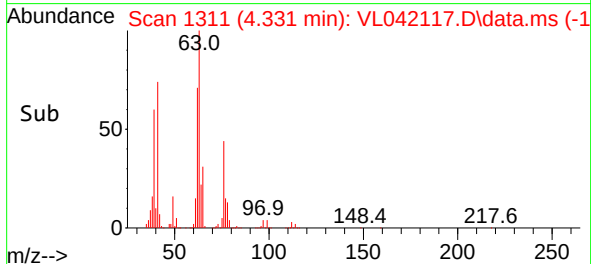
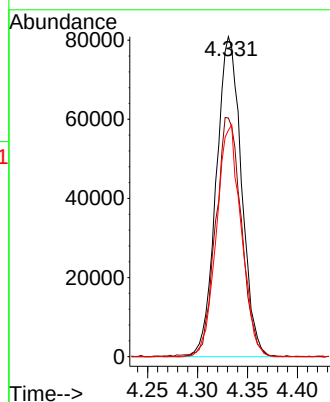
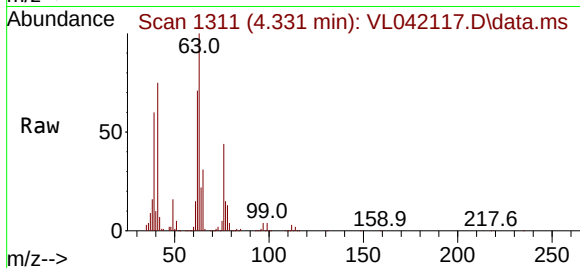
Tgt Ion: 63 Resp: 141729

Ion Ratio Lower Upper

63 100

41 74.5 60.1 90.1

62 70.8 55.8 83.8



#40

1,4-Dioxane

Concen: 8.321 ppbv

RT: 4.603 min Scan# 1395

Delta R.T. -0.007 min

Lab File: VL042117.D

Acq: 10 Mar 2025 10:52

Tgt Ion: 88 Resp: 60426

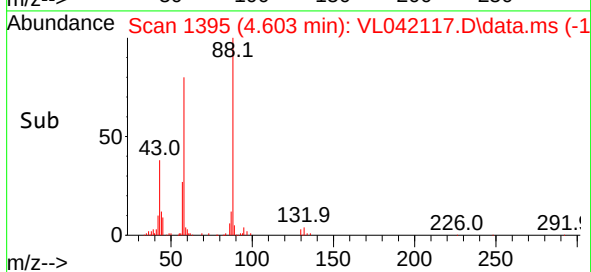
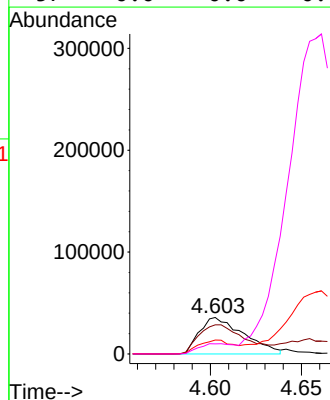
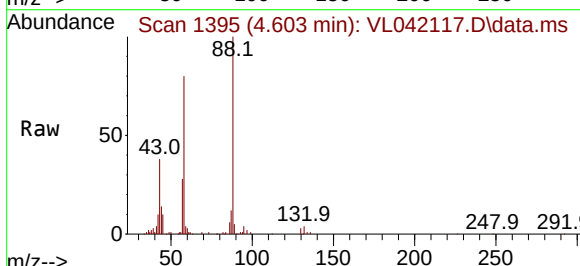
Ion Ratio Lower Upper

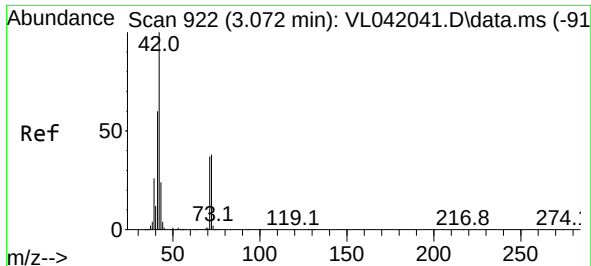
88 100

58 89.1 62.6 94.0

43 0.0 0.0 0.0

57 0.0 0.0 0.0

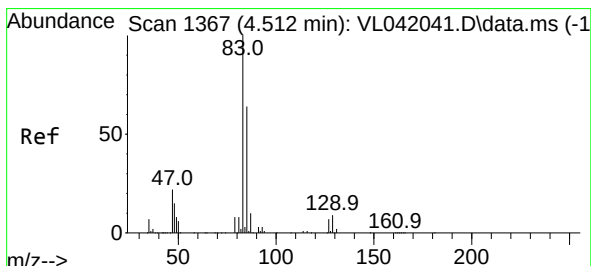
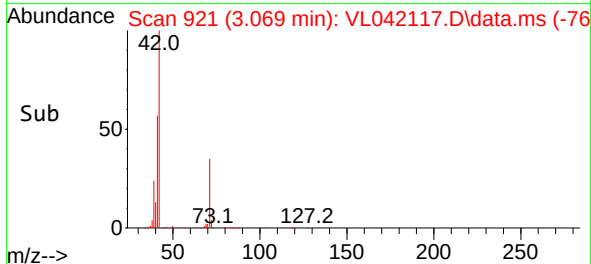
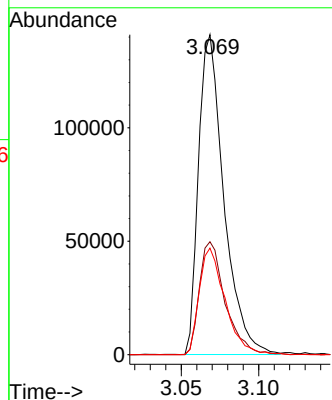
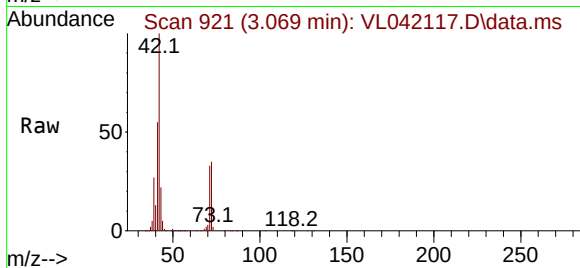




#41
Tetrahydrofuran
Concen: 8.728 ppbv
RT: 3.069 min Scan# 91
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

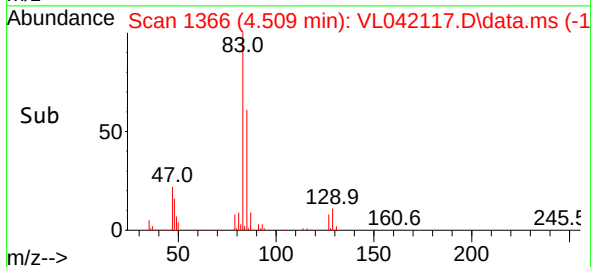
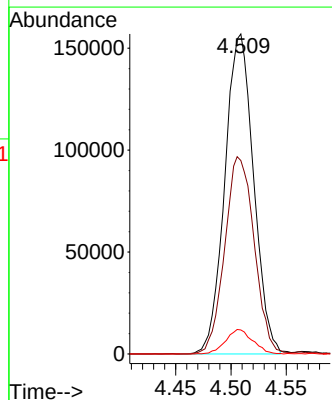
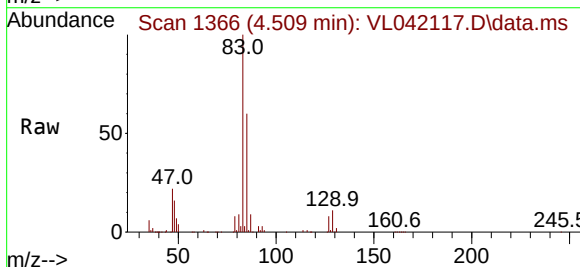
Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

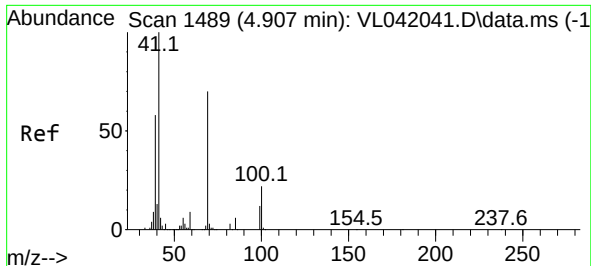
Tgt Ion: 42 Resp: 160858
Ion Ratio Lower Upper
42 100
72 36.0 30.2 45.2
71 34.0 28.2 42.4



#42
Bromodichloromethane
Concen: 9.063 ppbv
RT: 4.509 min Scan# 1366
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 83 Resp: 283730
Ion Ratio Lower Upper
83 100
85 60.4 51.4 77.2
127 7.5 5.8 8.6

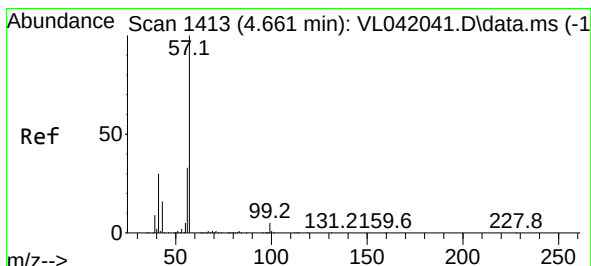
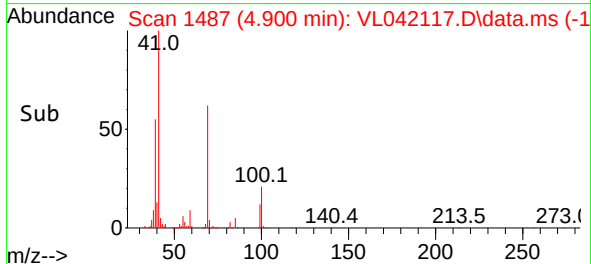
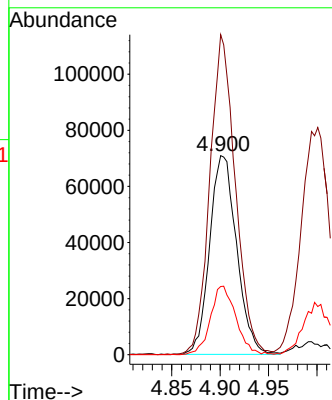
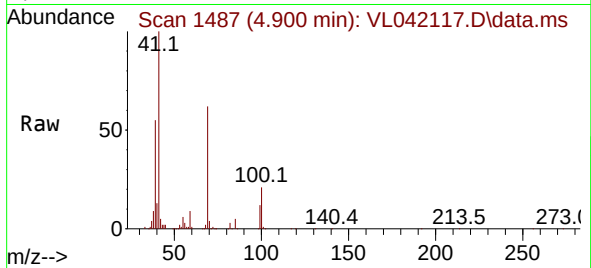




#43
Methyl Methacrylate
Concen: 8.395 ppbv
RT: 4.900 min Scan# 1489
Delta R.T. -0.007 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

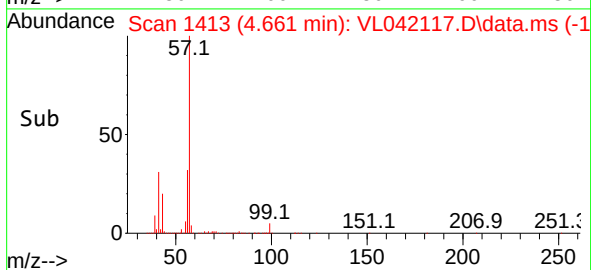
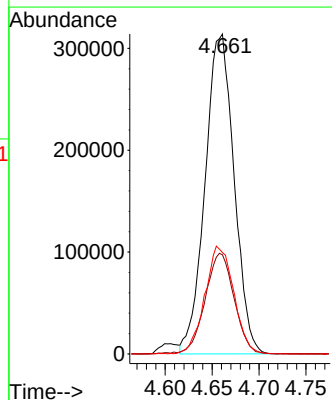
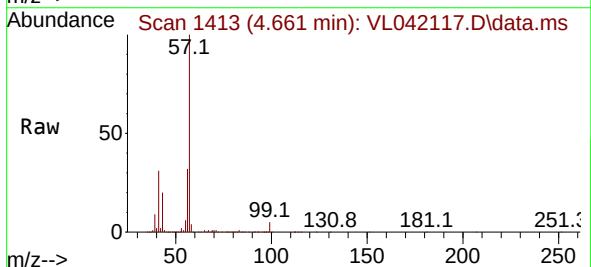
Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

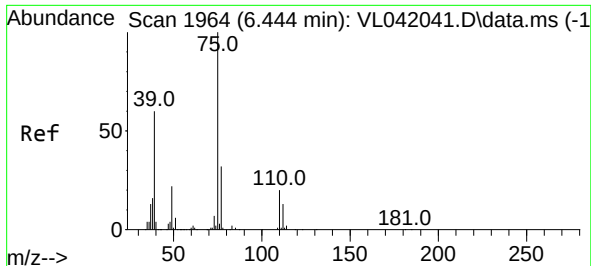
Tgt Ion: 69 Resp: 137403
Ion Ratio Lower Upper
69 100
41 152.0 118.2 177.4
100 32.6 27.0 40.4



#44
2,2,4-Trimethylpentane
Concen: 9.131 ppbv
RT: 4.661 min Scan# 1413
Delta R.T. -0.000 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 57 Resp: 675434
Ion Ratio Lower Upper
57 100
41 31.6 24.4 36.6
56 33.6 26.5 39.7





#45

t-1,3-Dichloropropene

Concen: 7.598 ppbv

RT: 6.438 min Scan# 1962

Delta R.T. -0.007 min

Lab File: VL042117.D

Acq: 10 Mar 2025 10:52

Instrument :

MSVOA_L

ClientSampleId :

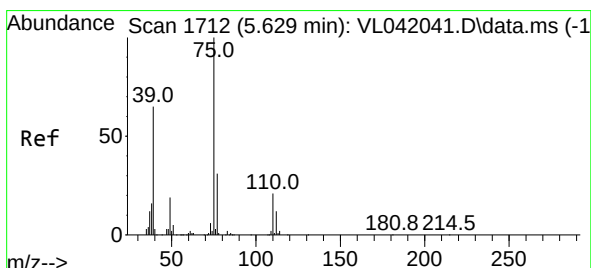
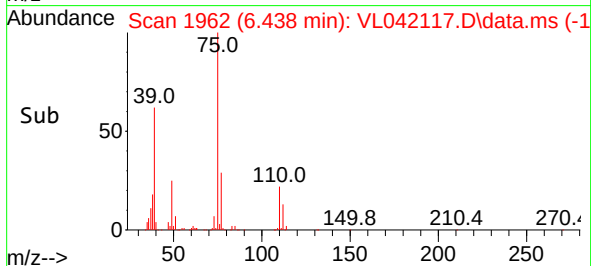
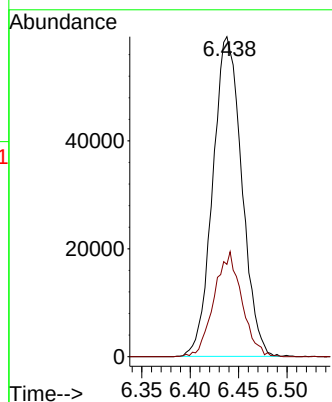
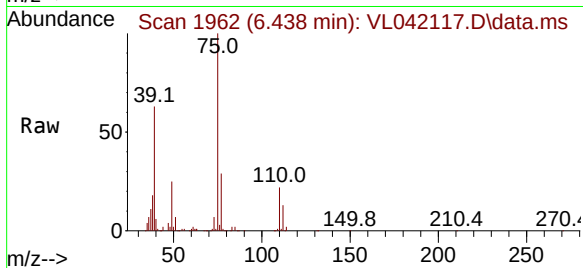
VL0310ABS01

Tgt Ion: 75 Resp: 123548

Ion Ratio Lower Upper

75 100

77 28.8 25.9 38.9



#46

cis-1,3-Dichloropropene

Concen: 8.063 ppbv

RT: 5.622 min Scan# 1710

Delta R.T. -0.007 min

Lab File: VL042117.D

Acq: 10 Mar 2025 10:52

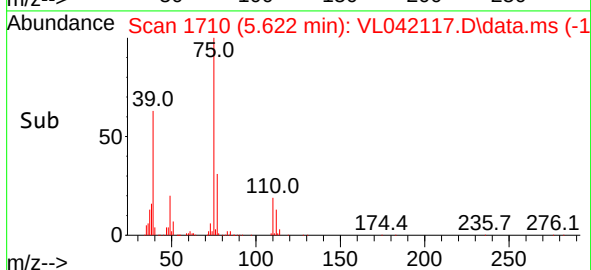
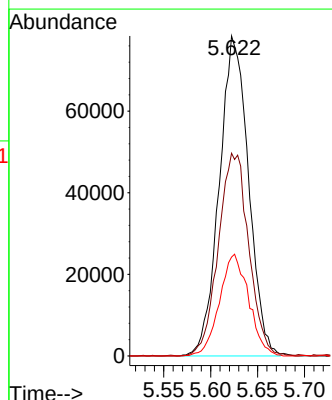
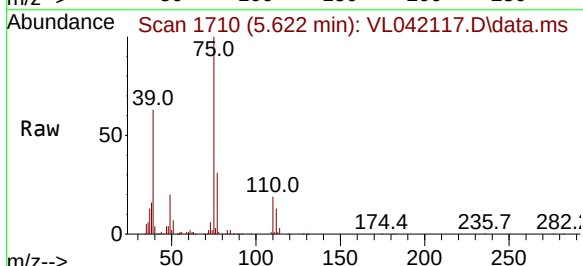
Tgt Ion: 75 Resp: 169656

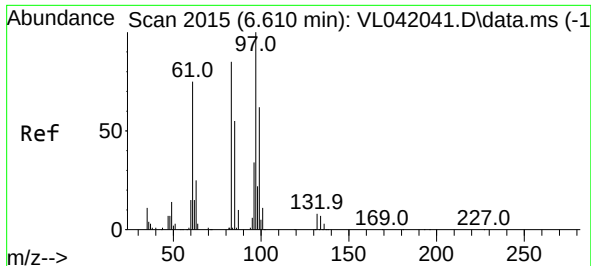
Ion Ratio Lower Upper

75 100

39 63.3 51.9 77.9

77 30.9 24.9 37.3

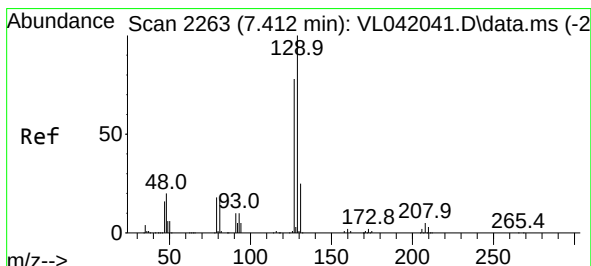
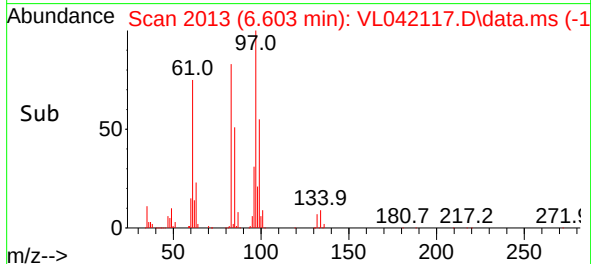
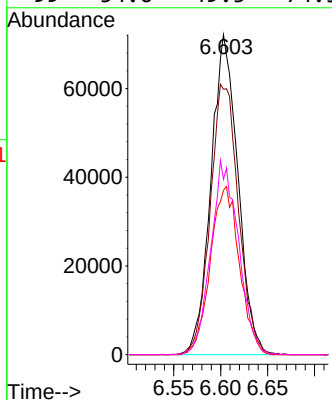
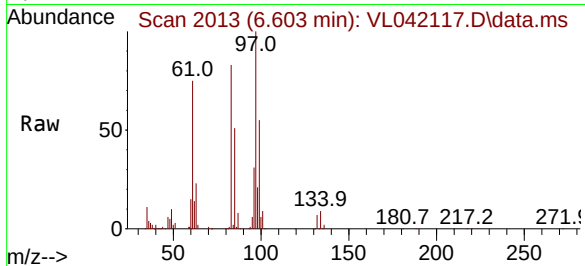




#47
 1,1,2-Trichloroethane
 Concen: 8.925 ppbv
 RT: 6.603 min Scan# 20
 Delta R.T. -0.007 min
 Lab File: VL042117.D
 Acq: 10 Mar 2025 10:52

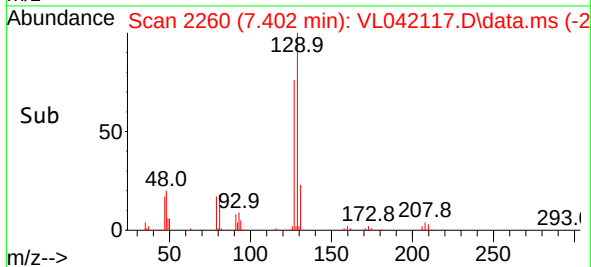
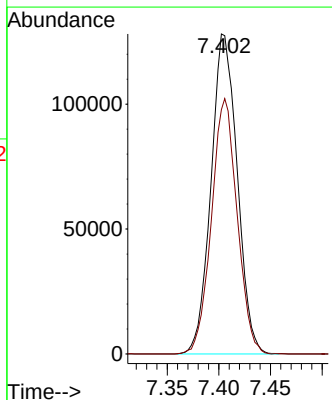
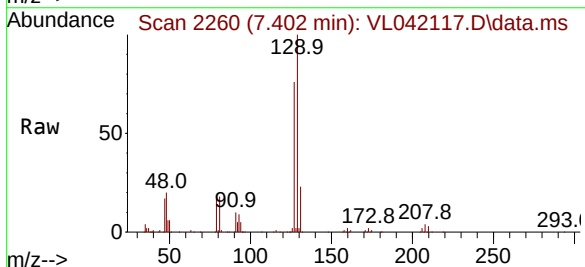
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0310ABS01

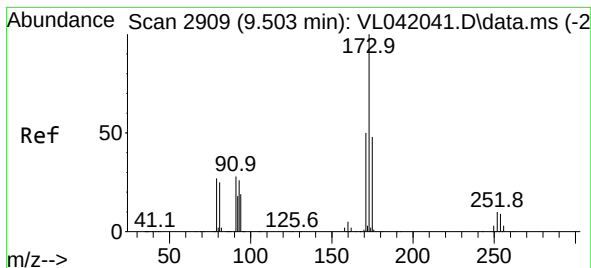
Tgt Ion: 97	Resp: 144144
Ion Ratio	Lower Upper
97 100	
83 82.9	68.1 102.1
85 51.3	44.0 66.0
99 54.6	49.5 74.3



#48
 Dibromochloromethane
 Concen: 8.951 ppbv
 RT: 7.402 min Scan# 2260
 Delta R.T. -0.010 min
 Lab File: VL042117.D
 Acq: 10 Mar 2025 10:52

Tgt Ion:129	Resp: 226388
Ion Ratio	Lower Upper
129 100	
127 78.1	38.6 115.8





#49

Bromoform

Concen: 9.188 ppbv

RT: 9.496 min Scan# 2909

Delta R.T. -0.007 min

Lab File: VL042117.D

Acq: 10 Mar 2025 10:52

Instrument :

MSVOA_L

ClientSampleId :

VL0310ABS01

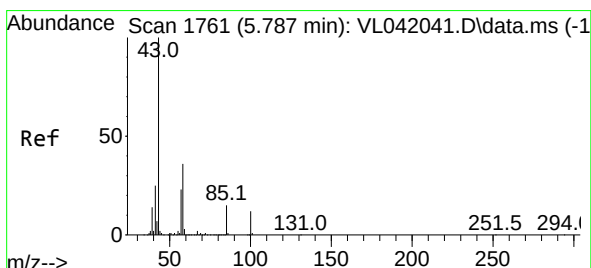
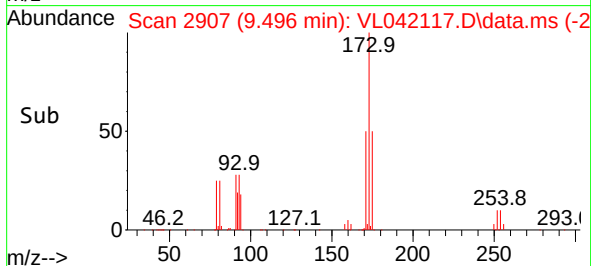
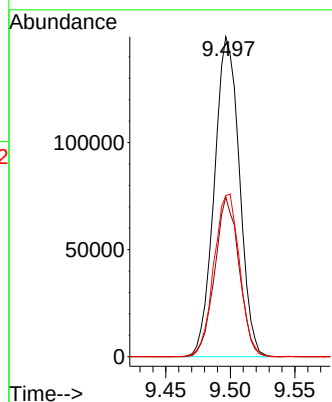
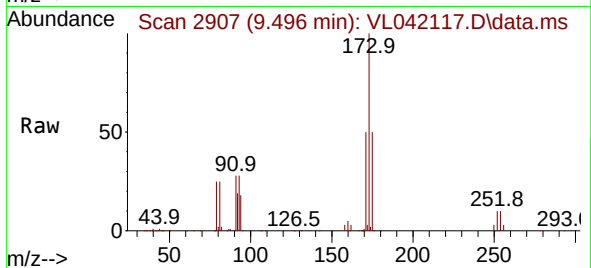
Tgt Ion:173 Resp: 201809

Ion Ratio Lower Upper

173 100

175 48.4 38.3 57.5

171 52.1 40.2 60.2



#50

4-Methyl-2-Pentanone

Concen: 9.603 ppbv

RT: 5.781 min Scan# 1759

Delta R.T. -0.007 min

Lab File: VL042117.D

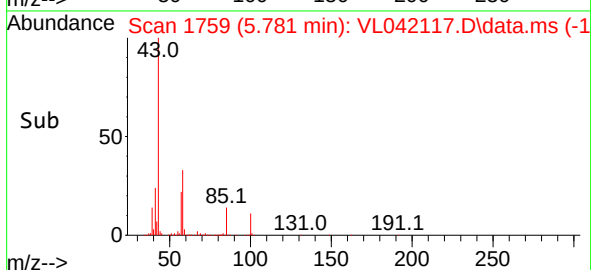
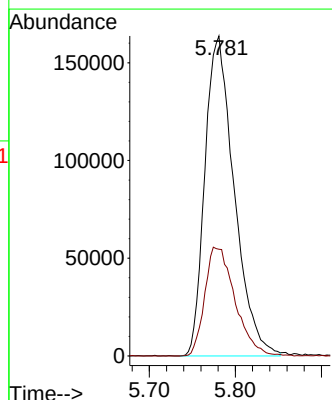
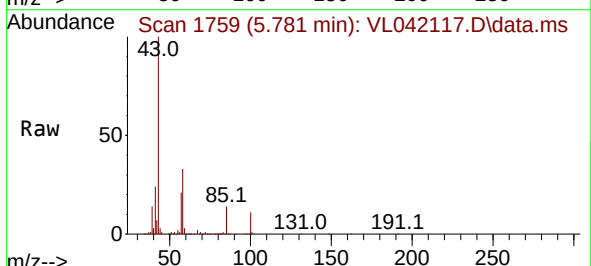
Acq: 10 Mar 2025 10:52

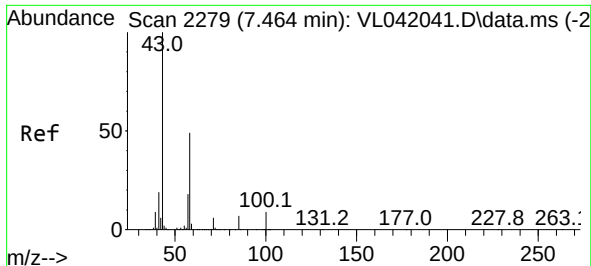
Tgt Ion: 43 Resp: 387370

Ion Ratio Lower Upper

43 100

58 35.1 29.3 43.9

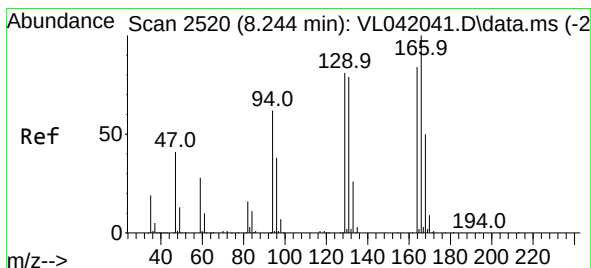
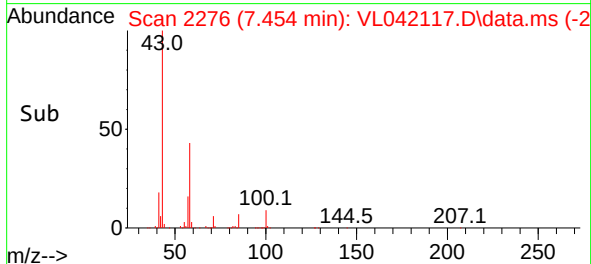
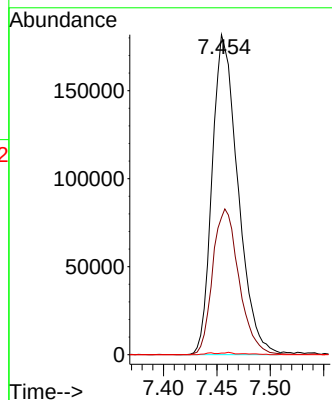
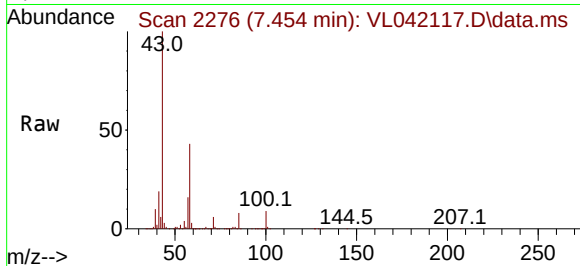




#51
2-Hexanone
Concen: 11.007 ppbv
RT: 7.454 min Scan# 2119
Delta R.T. -0.010 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

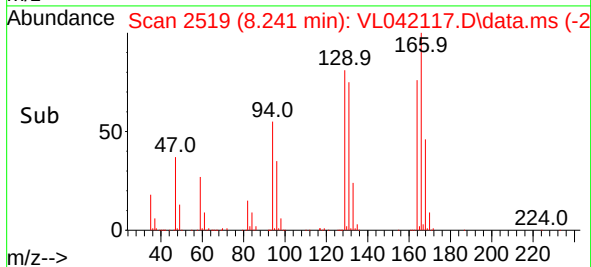
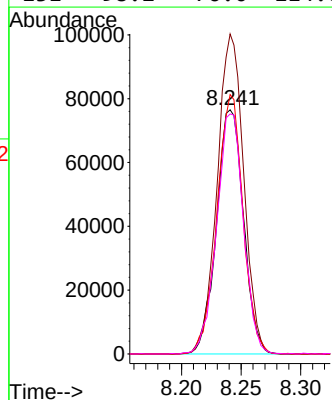
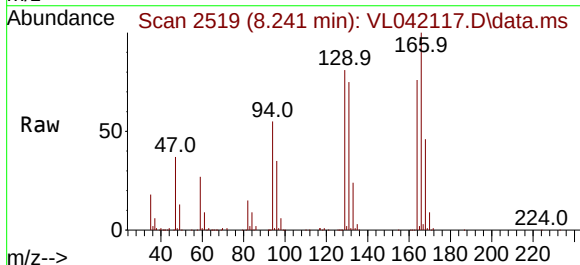
Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

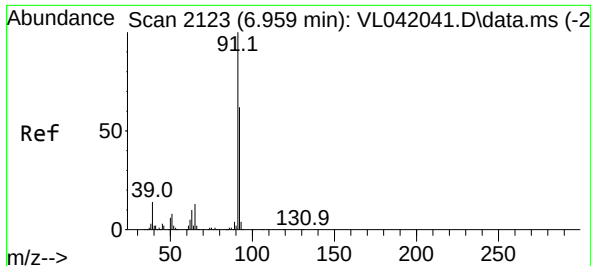
Tgt Ion: 43 Resp: 305577
Ion Ratio Lower Upper
43 100
58 46.7 39.0 58.6
98 0.8 0.1 0.1#



#52
Tetrachloroethene
Concen: 8.398 ppbv
RT: 8.241 min Scan# 2519
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion:164 Resp: 120494
Ion Ratio Lower Upper
164 100
166 131.1 95.7 143.5
129 106.2 77.1 115.7
131 98.2 76.0 114.0

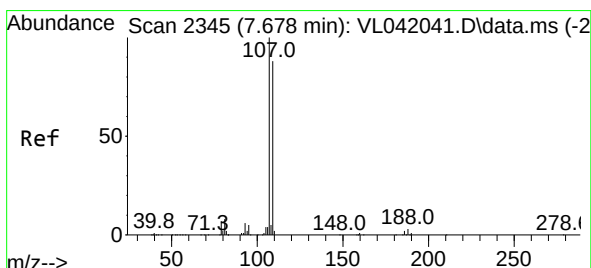
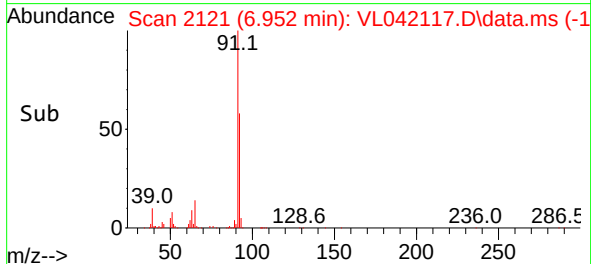
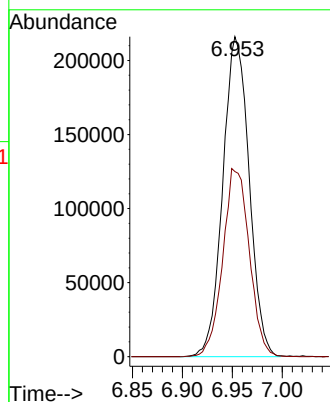
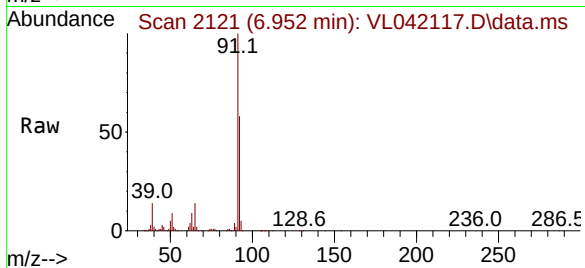




#53
Toluene
Concen: 8.456 ppbv
RT: 6.952 min Scan# 2121
Delta R.T. -0.007 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

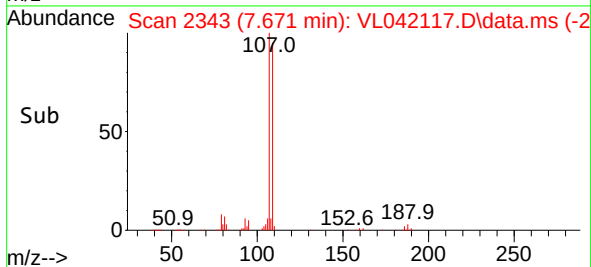
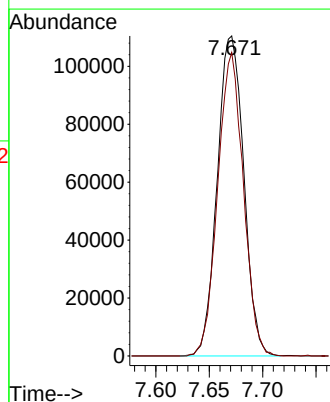
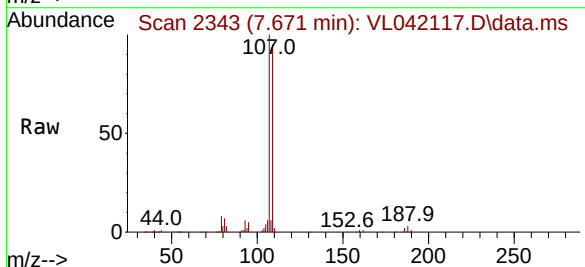
Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

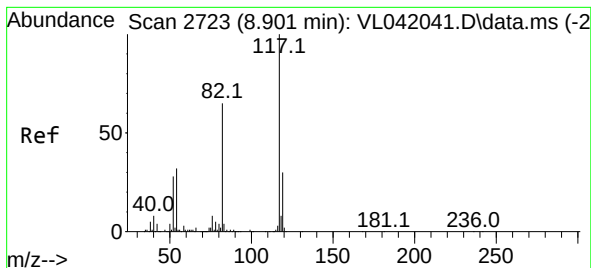
Tgt Ion: 91 Resp: 396095
Ion Ratio Lower Upper
91 100
92 59.3 49.0 73.6



#54
1,2-Dibromoethane
Concen: 8.732 ppbv
RT: 7.671 min Scan# 2343
Delta R.T. -0.007 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 107 Resp: 190659
Ion Ratio Lower Upper
107 100
109 94.8 70.2 105.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.898 min Scan# 2722

Delta R.T. -0.003 min

Lab File: VL042117.D

Acq: 10 Mar 2025 10:52

Instrument :

MSVOA_L

ClientSampleId :

VL0310ABS01

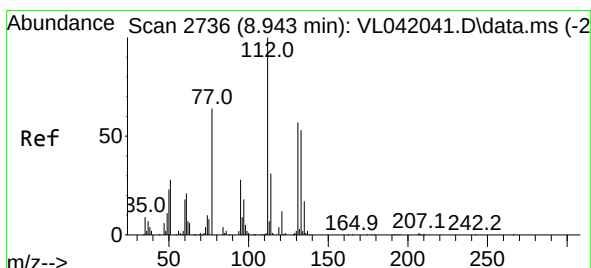
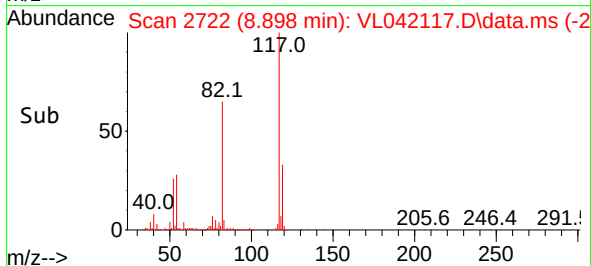
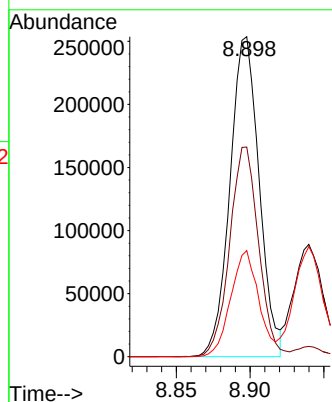
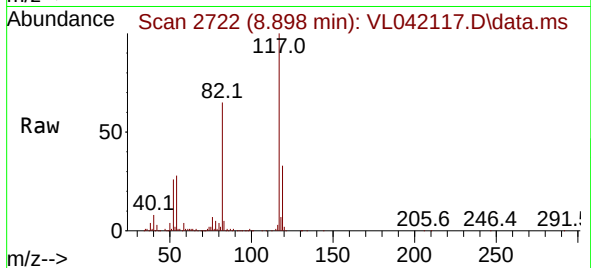
Tgt Ion:117 Resp: 350466

Ion Ratio Lower Upper

117 100

82 67.6 55.0 82.6

119 31.8 25.9 38.9



#56

1,1,1,2-Tetrachloroethane

Concen: 9.240 ppbv

RT: 8.940 min Scan# 2735

Delta R.T. -0.003 min

Lab File: VL042117.D

Acq: 10 Mar 2025 10:52

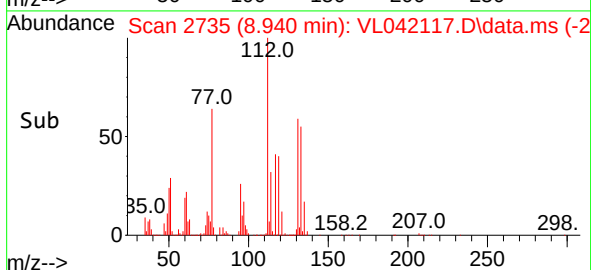
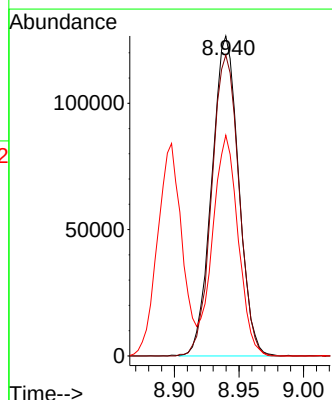
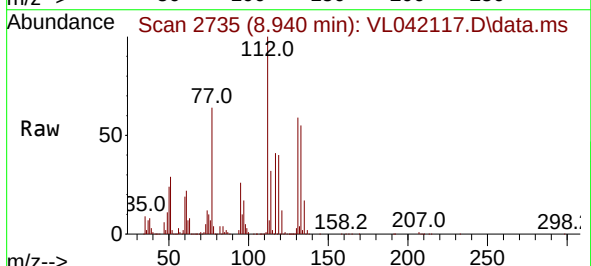
Tgt Ion:131 Resp: 183026

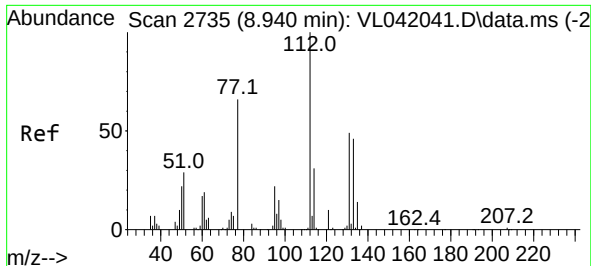
Ion Ratio Lower Upper

131 100

133 95.3 75.8 113.8

119 65.2 52.1 78.1





#57

Chlorobenzene

Concen: 9.258 ppbv

RT: 8.937 min Scan# 21

Delta R.T. -0.003 min

Lab File: VL042117.D

Acq: 10 Mar 2025 10:52

Instrument :

MSVOA_L

ClientSampleId :

VL0310ABS01

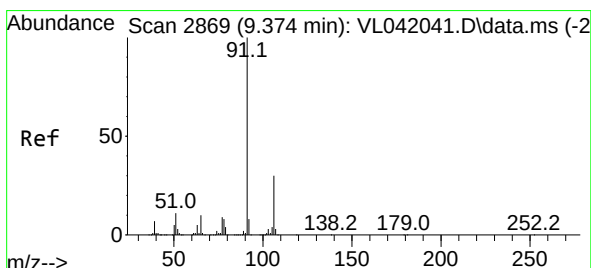
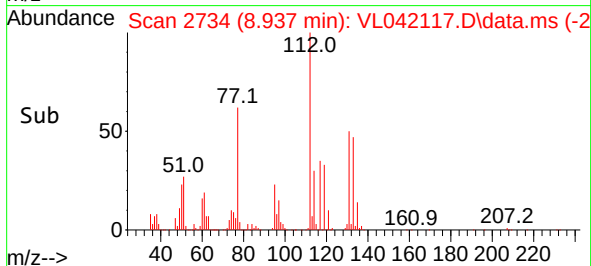
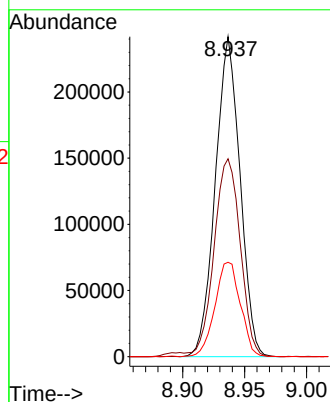
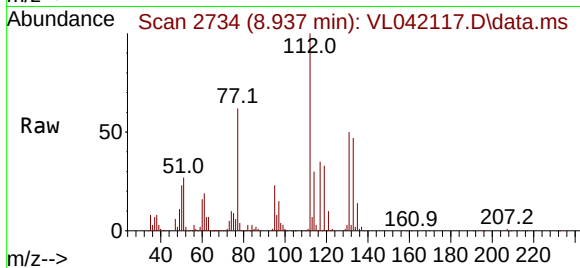
Tgt Ion:112 Resp: 336406

Ion Ratio Lower Upper

112 100

77 61.8 53.4 80.2

114 29.5 28.3 34.5



#58

Ethyl Benzene

Concen: 8.590 ppbv

RT: 9.370 min Scan# 2868

Delta R.T. -0.003 min

Lab File: VL042117.D

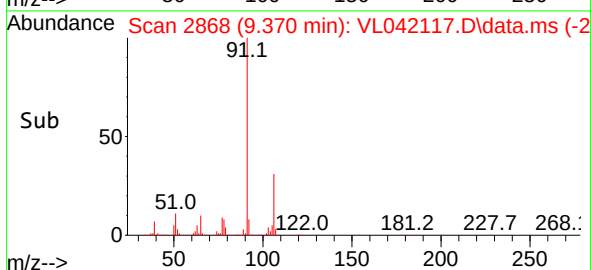
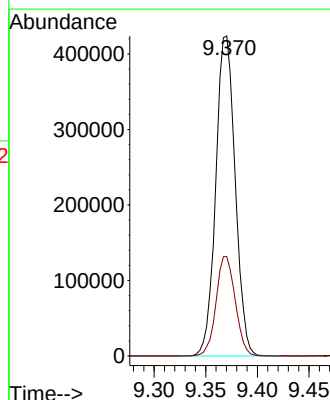
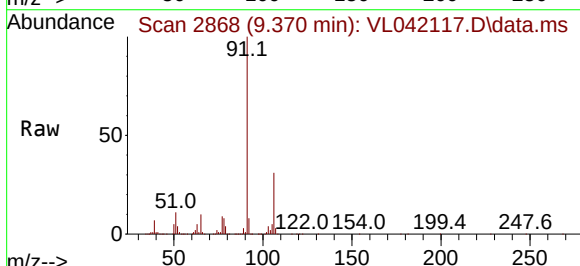
Acq: 10 Mar 2025 10:52

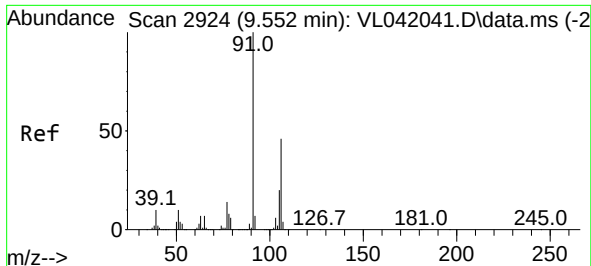
Tgt Ion: 91 Resp: 554446

Ion Ratio Lower Upper

91 100

106 31.1 24.2 36.2

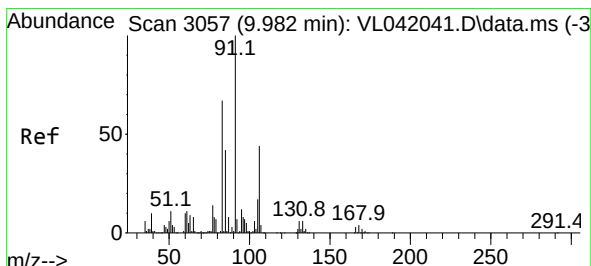
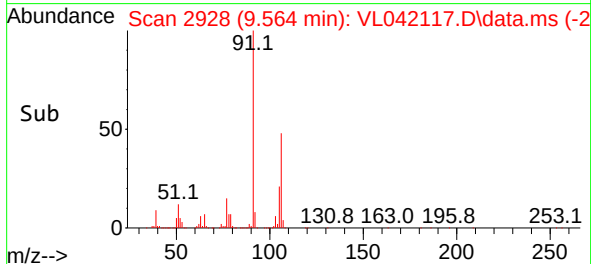
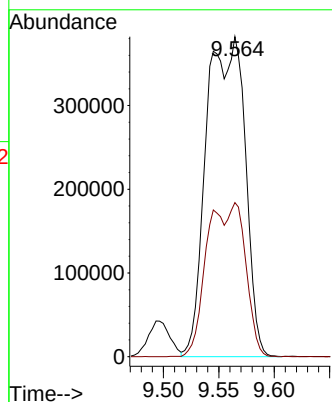
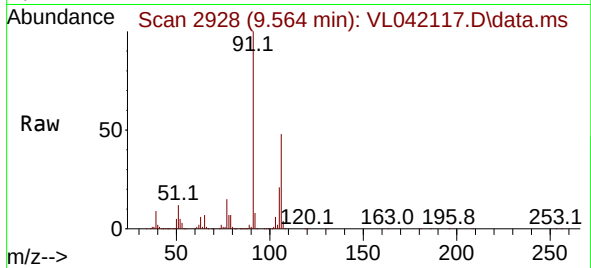




#59
m/p-Xylene
Concen: 18.022 ppbv m
RT: 9.564 min Scan# 2924
Delta R.T. 0.013 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

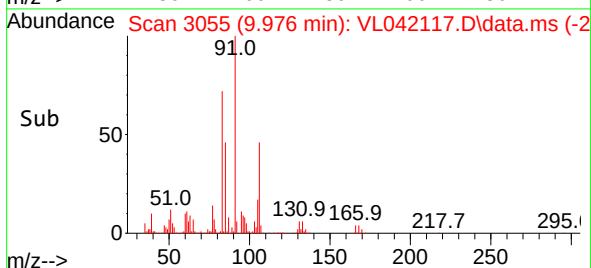
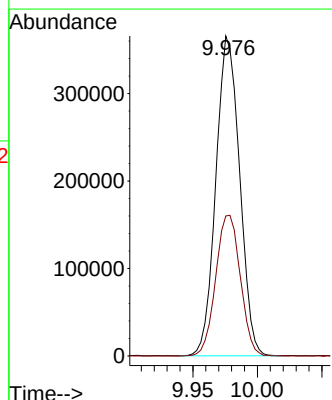
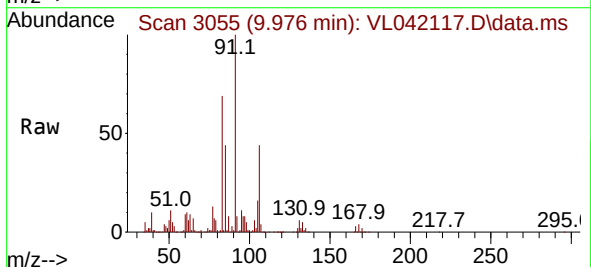
Instrument :
MSVOA_1
ClientSampleId :
VL0310ABS01

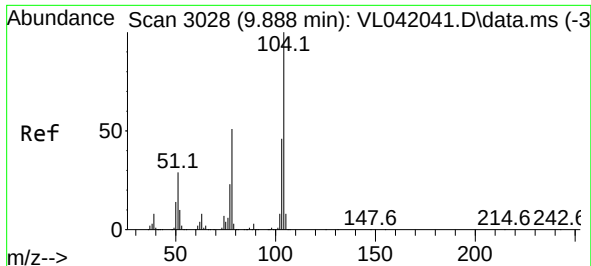
Tgt Ion: 91 Resp: 925654
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0



#60
o-Xylene
Concen: 9.052 ppbv
RT: 9.976 min Scan# 3055
Delta R.T. -0.007 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 91 Resp: 467382
Ion Ratio Lower Upper
91 100
106 45.6 22.3 66.8

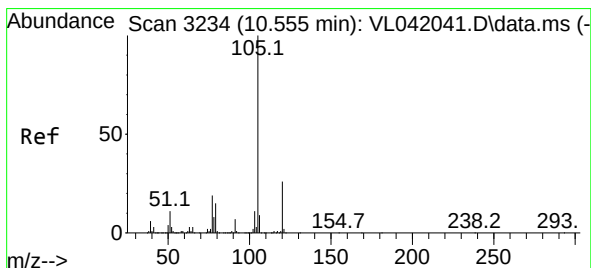
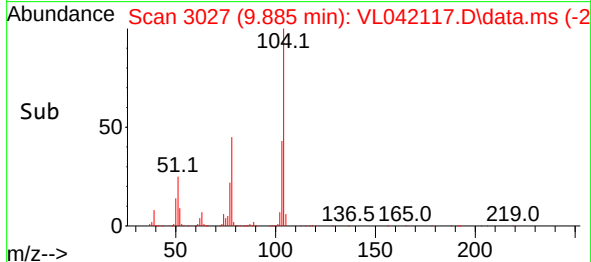
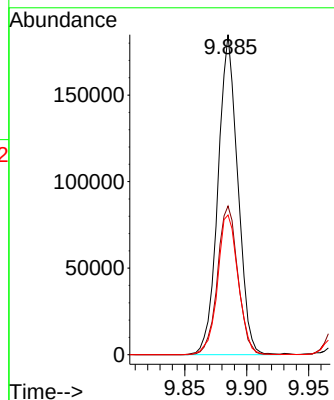
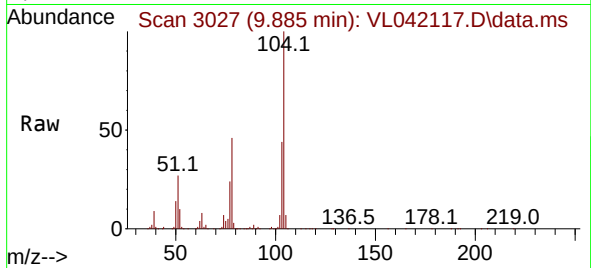




#61
Styrene
Concen: 8.469 ppbv
RT: 9.885 min Scan# 3028
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

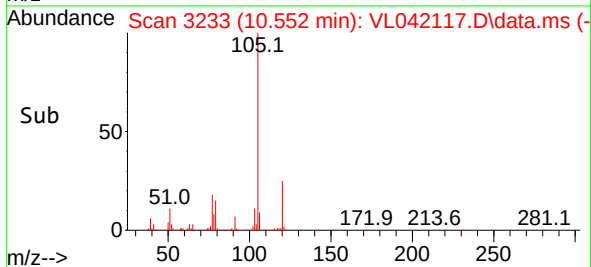
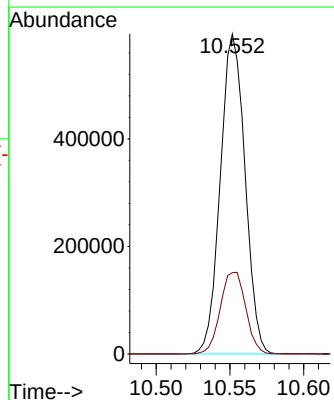
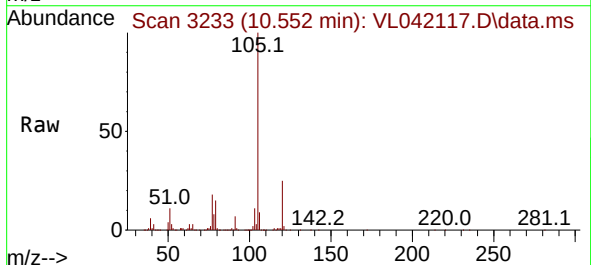
Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

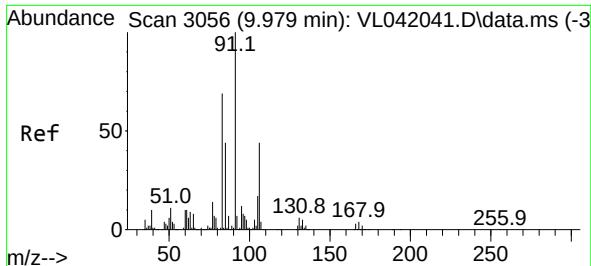
Tgt Ion:104 Resp: 205606
Ion Ratio Lower Upper
104 100
78 48.1 41.0 61.4
103 45.6 37.0 55.6



#62
Isopropylbenzene
Concen: 8.950 ppbv
RT: 10.552 min Scan# 3233
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion:105 Resp: 692094
Ion Ratio Lower Upper
105 100
120 26.4 20.7 31.1

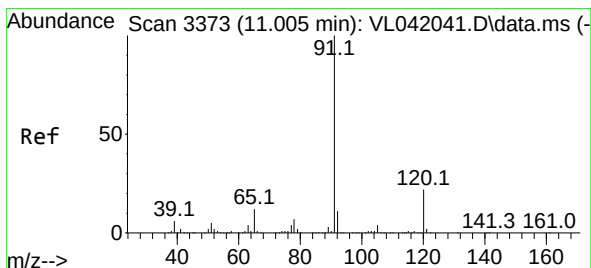
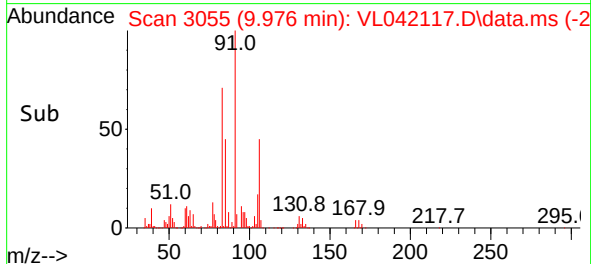
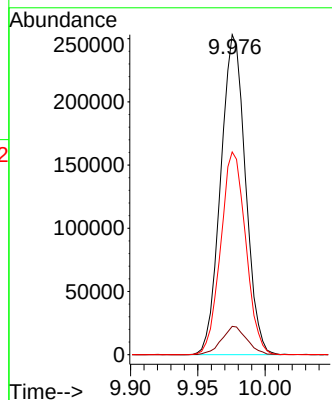
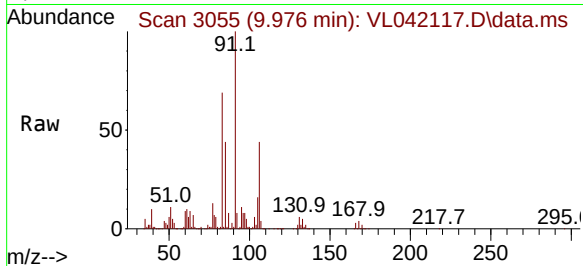




#63
 1,1,2,2-Tetrachloroethane
 Concen: 9.504 ppbv
 RT: 9.976 min Scan# 3056
 Delta R.T. -0.003 min
 Lab File: VL042117.D
 Acq: 10 Mar 2025 10:52

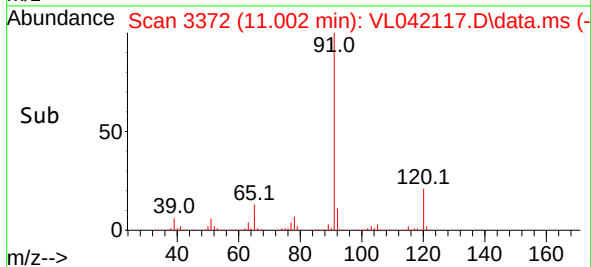
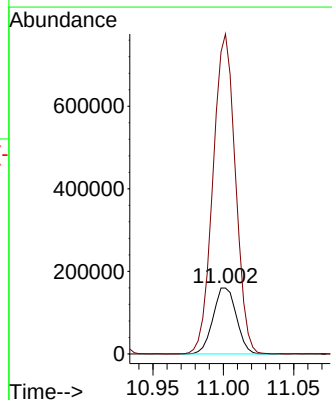
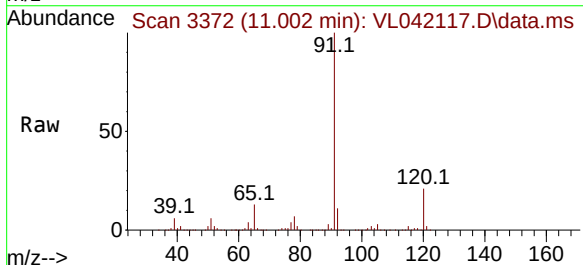
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0310ABS01

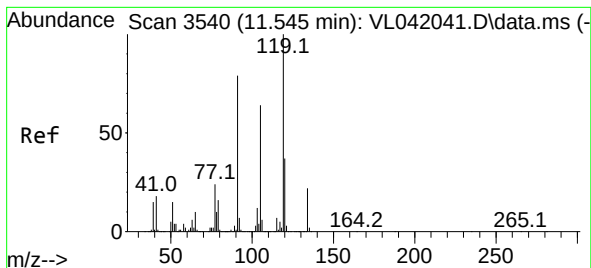
Tgt Ion: 83 Resp: 323193
 Ion Ratio Lower Upper
 83 100
 131 9.1 4.5 13.7
 85 64.0 32.1 96.3



#64
 n-propylbenzene
 Concen: 9.081 ppbv
 RT: 11.002 min Scan# 3372
 Delta R.T. -0.003 min
 Lab File: VL042117.D
 Acq: 10 Mar 2025 10:52

Tgt Ion: 120 Resp: 184209
 Ion Ratio Lower Upper
 120 100
 91 466.7 370.6 556.0





#65

tert-Butylbenzene

Concen: 8.814 ppbv

RT: 11.542 min Scan# 3539

Delta R.T. -0.003 min

Lab File: VL042117.D

Acq: 10 Mar 2025 10:52

Instrument :

MSVOA_L

ClientSampleId :

VL0310ABS01

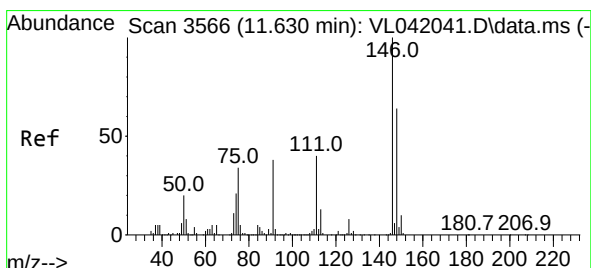
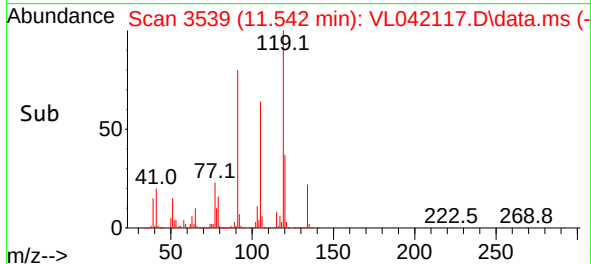
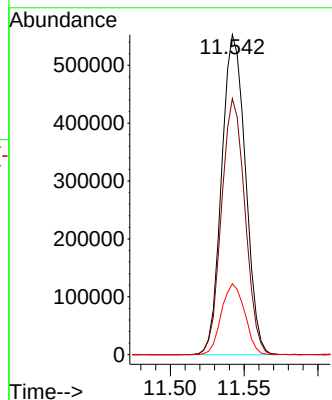
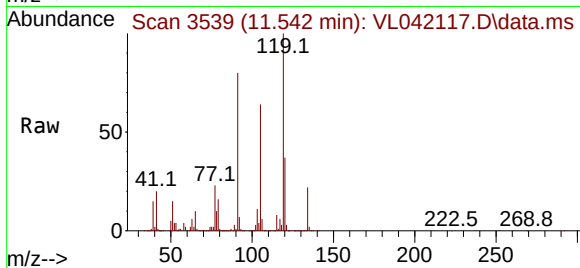
Tgt Ion:119 Resp: 620355

Ion Ratio Lower Upper

119 100

91 79.1 64.2 96.2

134 21.8 17.4 26.2



#66

Benzyl Chloride

Concen: 7.252 ppbv

RT: 11.626 min Scan# 3565

Delta R.T. -0.003 min

Lab File: VL042117.D

Acq: 10 Mar 2025 10:52

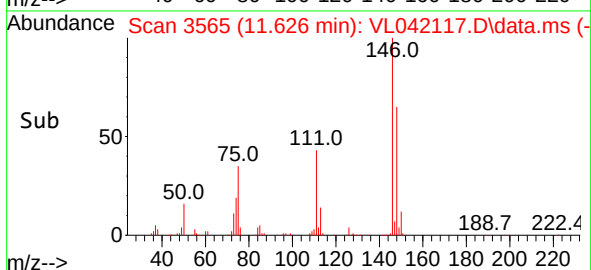
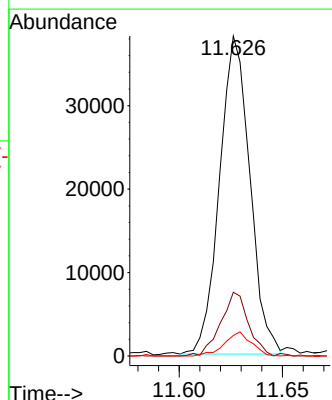
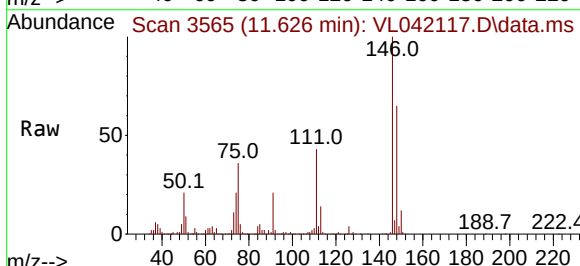
Tgt Ion: 91 Resp: 38948

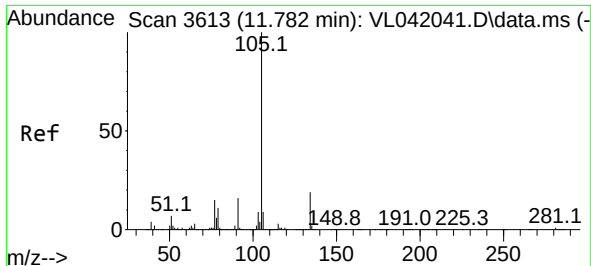
Ion Ratio Lower Upper

91 100

126 18.4 14.5 21.7

128 6.8 5.4 8.2

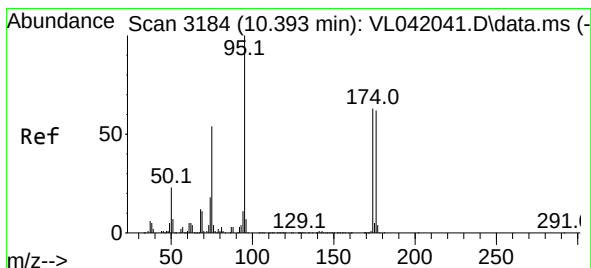
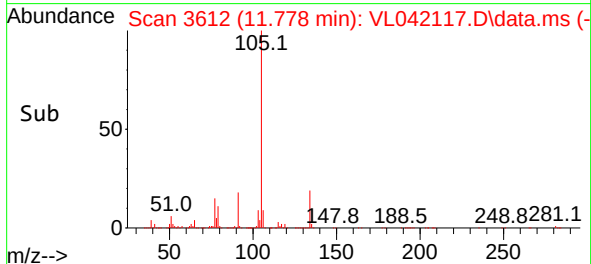
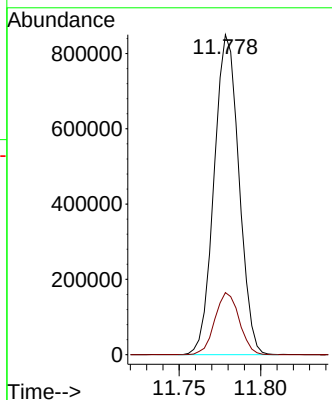
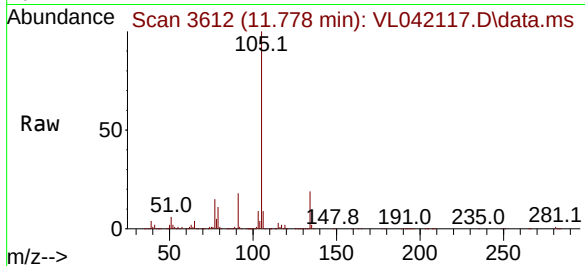




#67
 sec-Butylbenzene
 Concen: 8.942 ppbv
 RT: 11.778 min Scan# 3182
 Delta R.T. -0.003 min
 Lab File: VL042117.D
 Acq: 10 Mar 2025 10:52

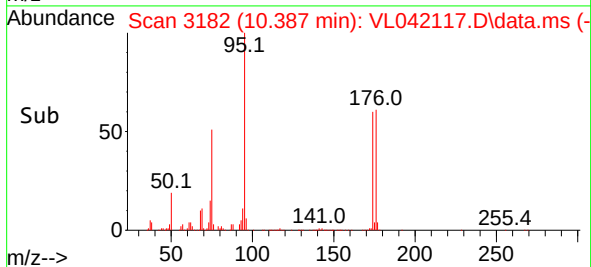
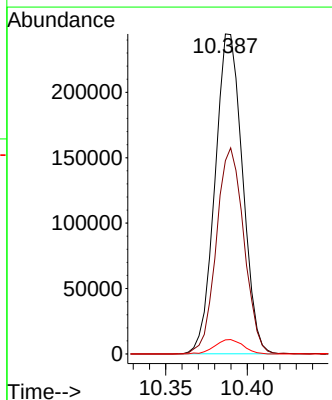
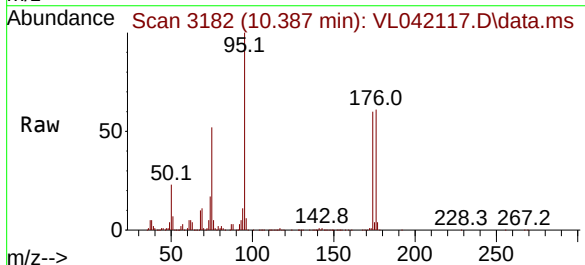
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0310ABS01

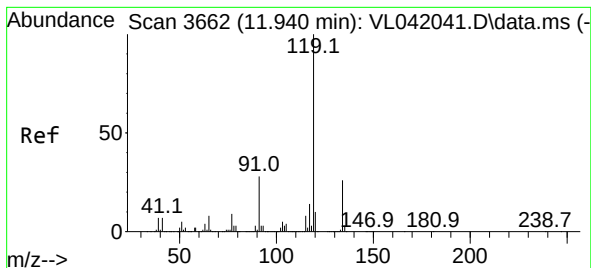
Tgt Ion:105 Resp: 900003
 Ion Ratio Lower Upper
 105 100
 134 19.1 14.9 22.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.641 ppbv
 RT: 10.387 min Scan# 3182
 Delta R.T. -0.007 min
 Lab File: VL042117.D
 Acq: 10 Mar 2025 10:52

Tgt Ion: 95 Resp: 286905
 Ion Ratio Lower Upper
 95 100
 174 64.6 51.8 77.6
 175 4.7 3.9 5.9

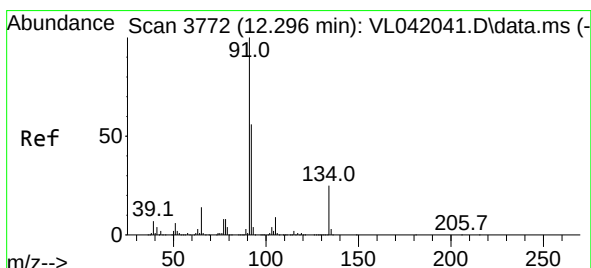
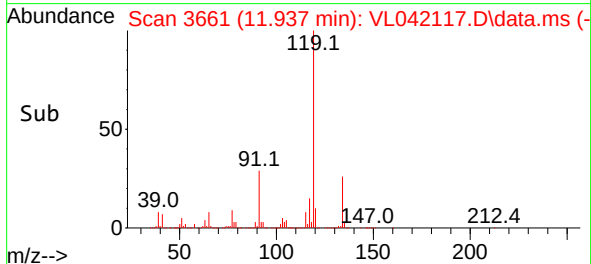
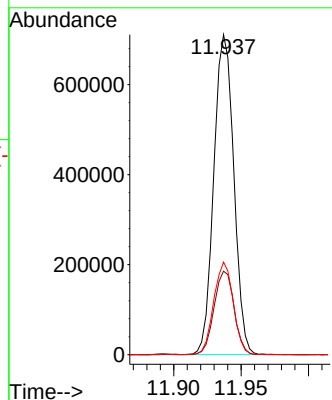
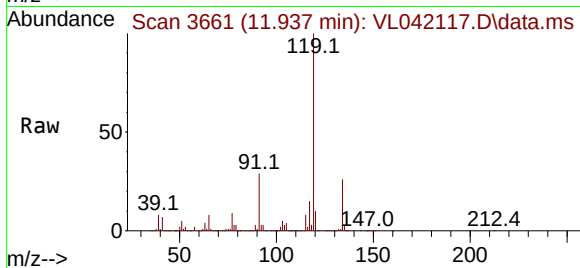




#69
p-Isopropyltoluene
Concen: 9.145 ppbv
RT: 11.937 min Scan# 3661
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

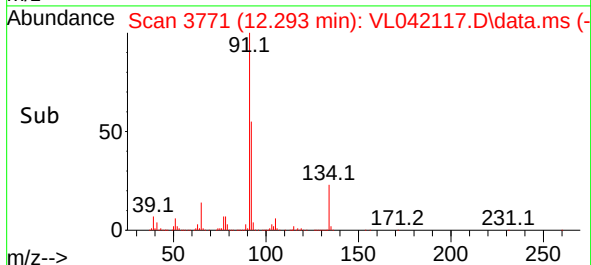
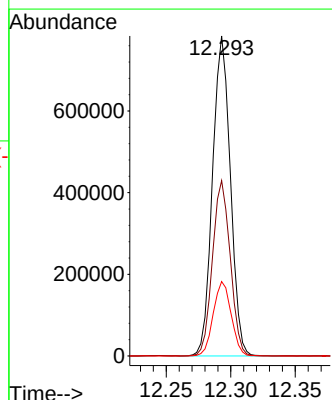
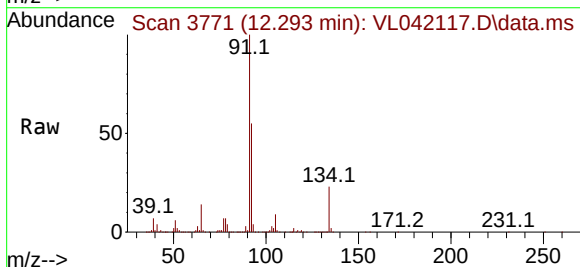
Instrument :
MSVOA_1
ClientSampleId :
VL0310ABS01

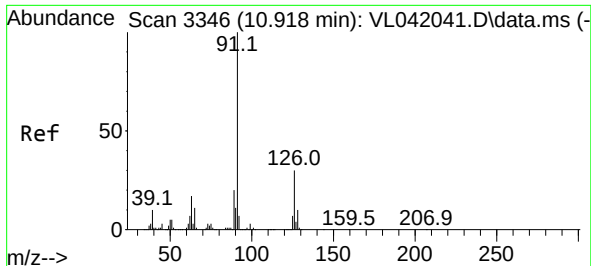
Tgt Ion:119 Resp: 732332
Ion Ratio Lower Upper
119 100
134 26.3 20.9 31.3
91 28.3 23.1 34.7



#70
n-Butylbenzene
Concen: 9.208 ppbv
RT: 12.293 min Scan# 3771
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 91 Resp: 752707
Ion Ratio Lower Upper
91 100
92 54.6 44.7 67.1
134 23.4 18.9 28.3

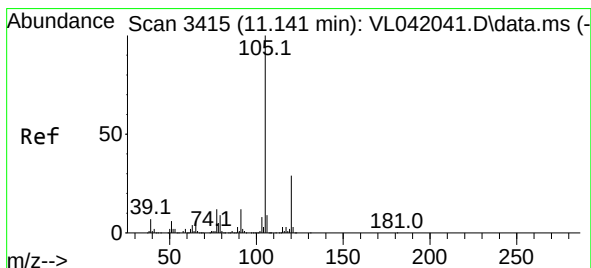
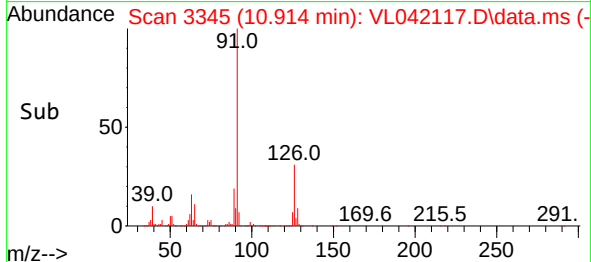
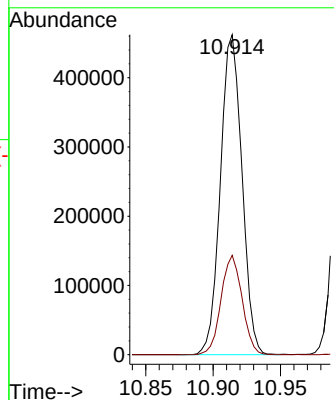
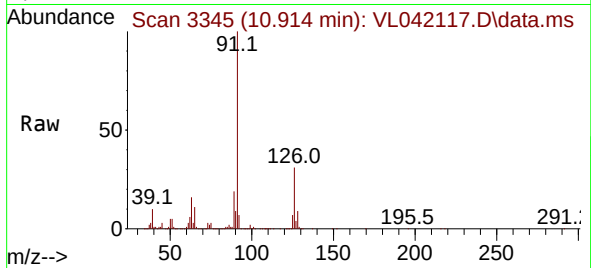




#71
2-Chlorotoluene
Concen: 8.624 ppbv
RT: 10.914 min Scan# 31
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

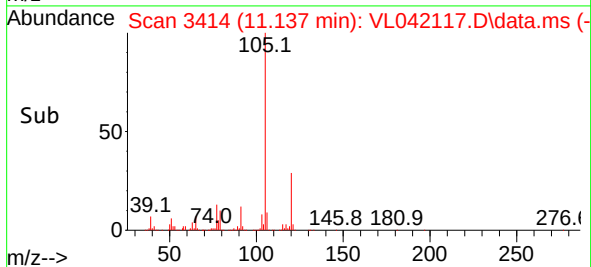
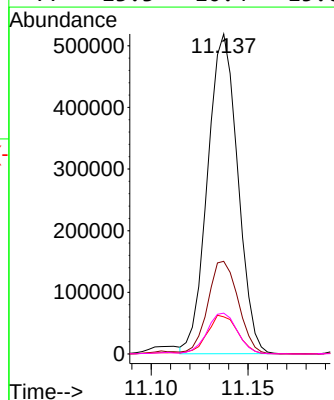
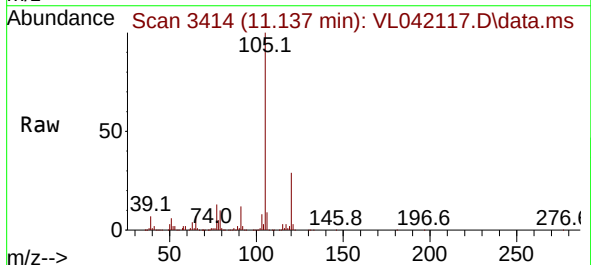
Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

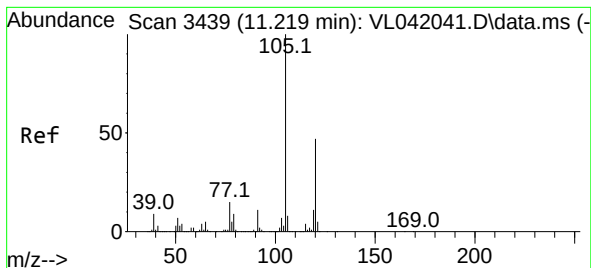
Tgt Ion: 91 Resp: 514130
Ion Ratio Lower Upper
91 100
126 30.3 11.9 47.5



#72
4-Ethyltoluene
Concen: 8.919 ppbv
RT: 11.137 min Scan# 3414
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 105 Resp: 562308
Ion Ratio Lower Upper
105 100
120 30.0 24.1 36.1
91 12.7 10.2 15.4
77 13.3 10.4 15.6





#73

1,3,5-Trimethylbenzene

Concen: 8.795 ppbv

RT: 11.215 min Scan# 3439

Delta R.T. -0.003 min

Lab File: VL042117.D

Acq: 10 Mar 2025 10:52

Instrument :

MSVOA_1

ClientSampleId :

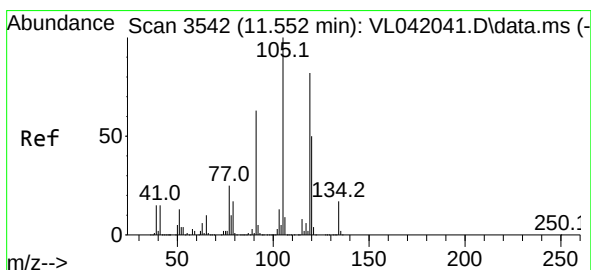
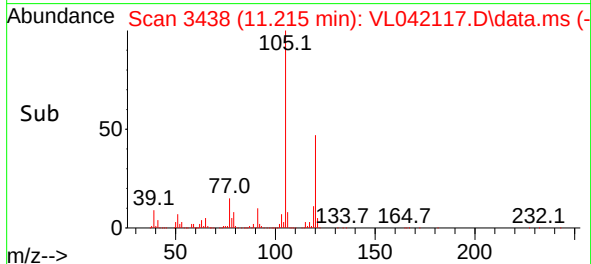
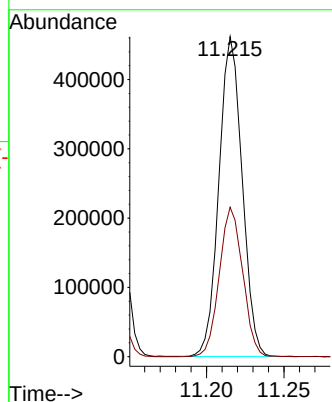
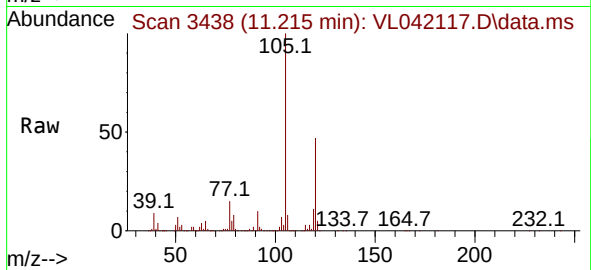
VL0310ABS01

Tgt Ion:105 Resp: 480973

Ion Ratio Lower Upper

105 100

120 46.7 37.4 56.0



#74

1,2,4-Trimethylbenzene

Concen: 8.747 ppbv

RT: 11.549 min Scan# 3541

Delta R.T. -0.003 min

Lab File: VL042117.D

Acq: 10 Mar 2025 10:52

Tgt Ion:105 Resp: 538676

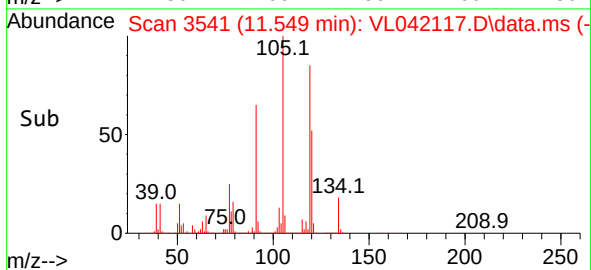
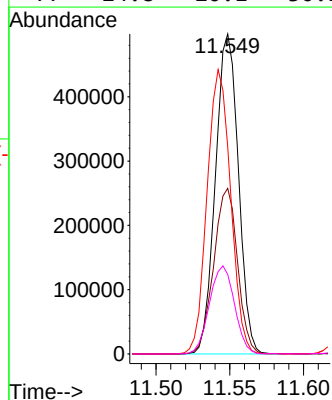
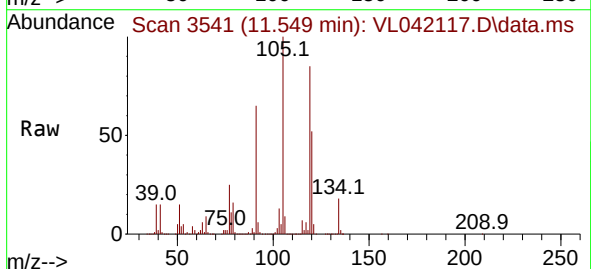
Ion Ratio Lower Upper

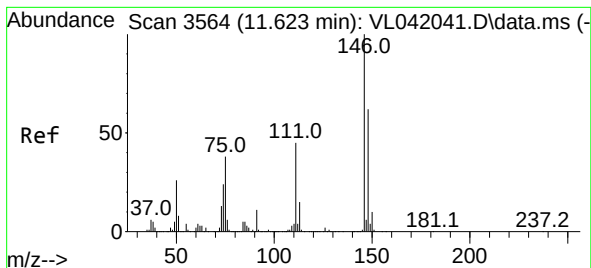
105 100

120 51.7 40.2 60.2

91 64.7 51.4 77.2

77 24.8 20.1 30.1





#75

1,3-Dichlorobenzene

Concen: 9.000 ppbv

RT: 11.620 min Scan# 3563

Delta R.T. -0.003 min

Lab File: VL042117.D

Acq: 10 Mar 2025 10:52

Instrument :

MSVOA_L

ClientSampleId :

VL0310ABS01

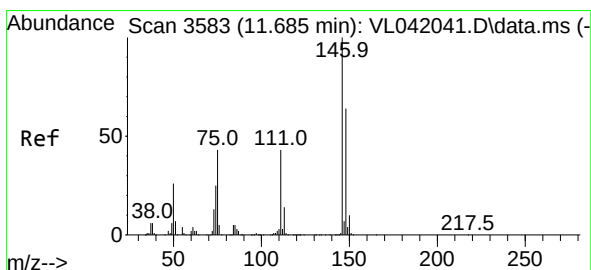
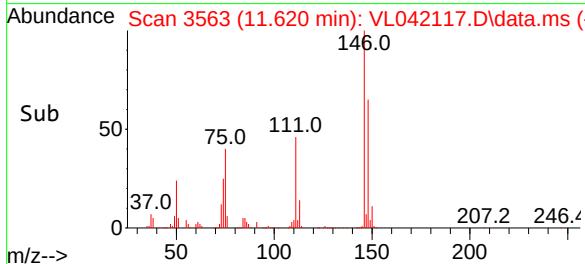
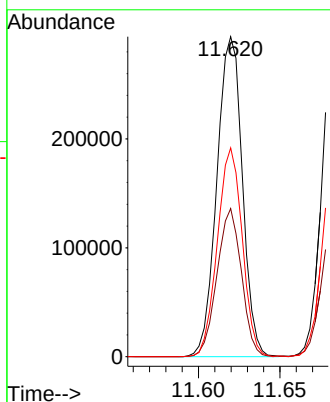
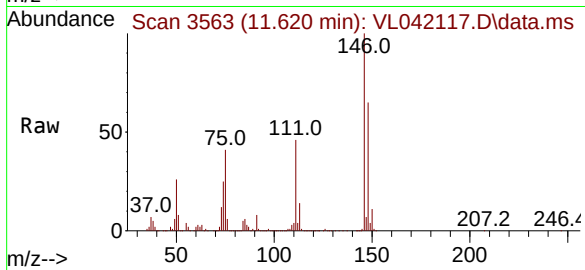
Tgt Ion:146 Resp: 318968

Ion Ratio Lower Upper

146 100

111 44.5 22.4 67.2

148 63.8 32.3 96.8



#76

1,4-Dichlorobenzene

Concen: 8.976 ppbv

RT: 11.684 min Scan# 3583

Delta R.T. -0.000 min

Lab File: VL042117.D

Acq: 10 Mar 2025 10:52

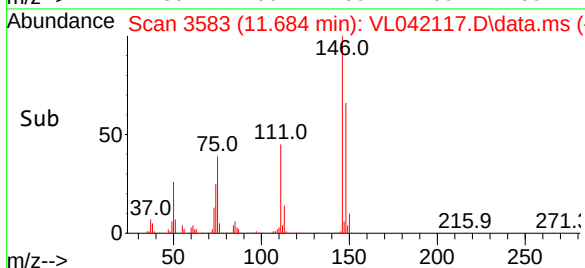
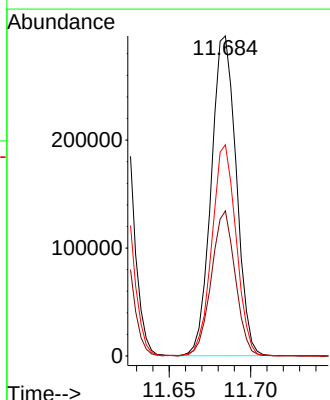
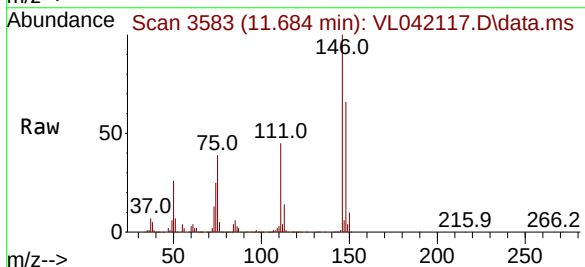
Tgt Ion:146 Resp: 315833

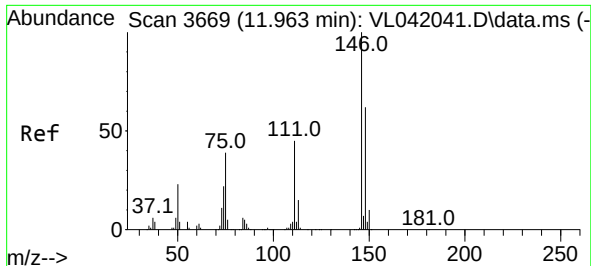
Ion Ratio Lower Upper

146 100

111 43.6 21.5 64.5

148 64.2 31.6 95.0

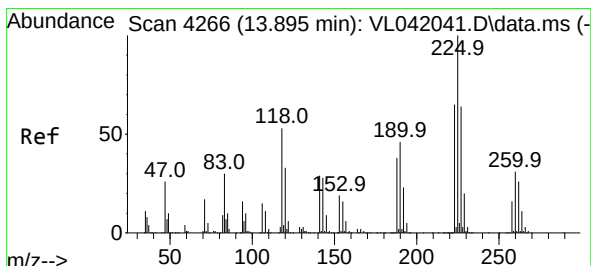
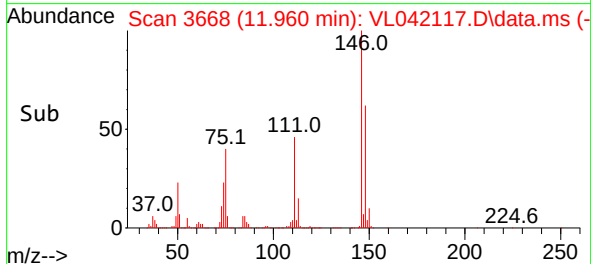
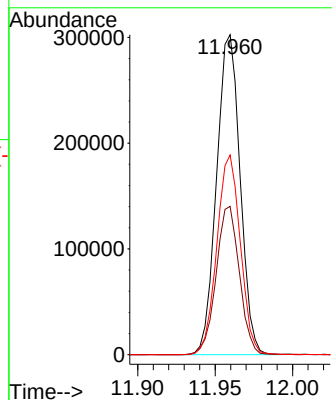
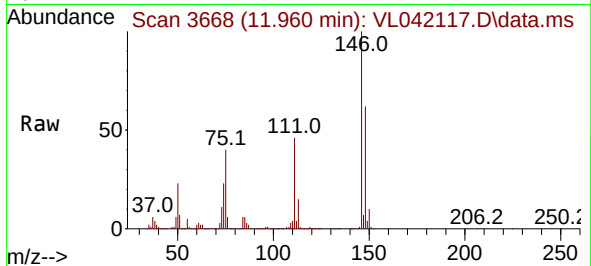




#77
 1,2-Dichlorobenzene
 Concen: 9.299 ppbv
 RT: 11.960 min Scan# 30
 Delta R.T. -0.003 min
 Lab File: VL042117.D
 Acq: 10 Mar 2025 10:52

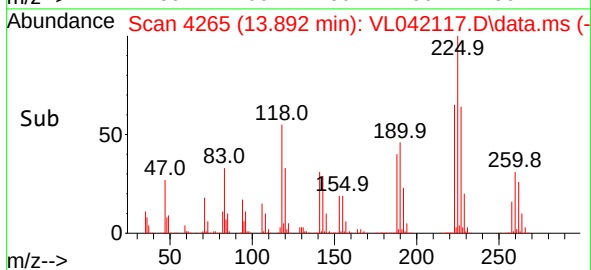
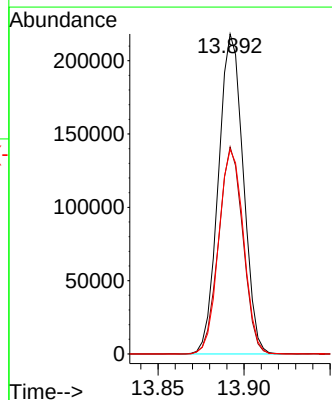
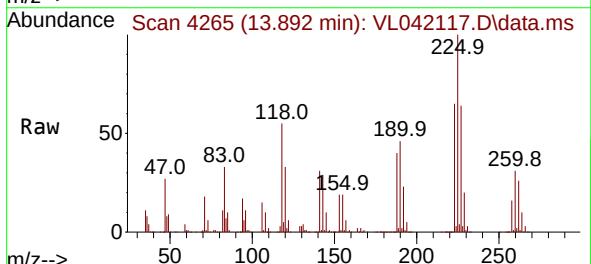
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0310ABS01

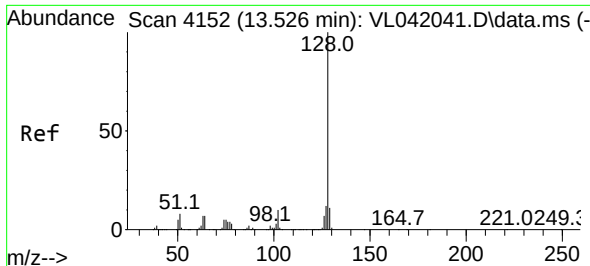
Tgt Ion:146 Resp: 319838
 Ion Ratio Lower Upper
 146 100
 111 45.9 23.2 69.6
 148 62.3 31.4 94.2



#78
 Hexachloro-1,3-Butadiene
 Concen: 8.187 ppbv
 RT: 13.892 min Scan# 4265
 Delta R.T. -0.003 min
 Lab File: VL042117.D
 Acq: 10 Mar 2025 10:52

Tgt Ion:225 Resp: 219090
 Ion Ratio Lower Upper
 225 100
 223 63.3 50.2 75.2
 227 63.8 50.8 76.2

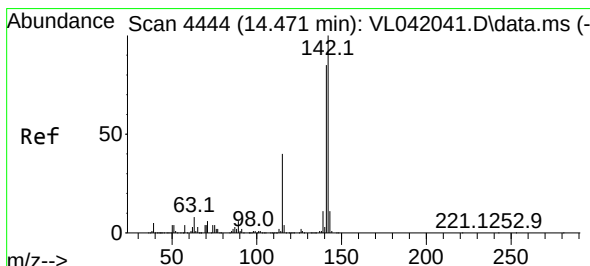
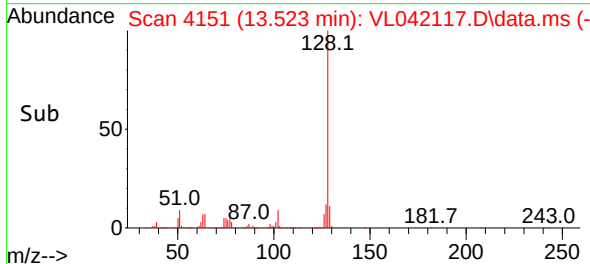
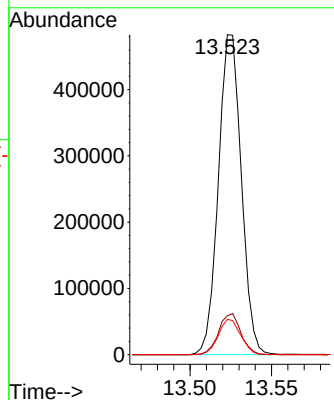
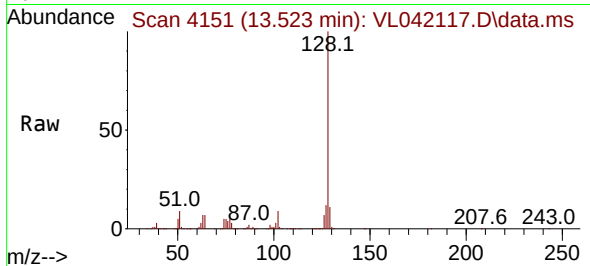




#79
Naphthalene
Concen: 11.191 ppbv
RT: 13.523 min Scan# 4152
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

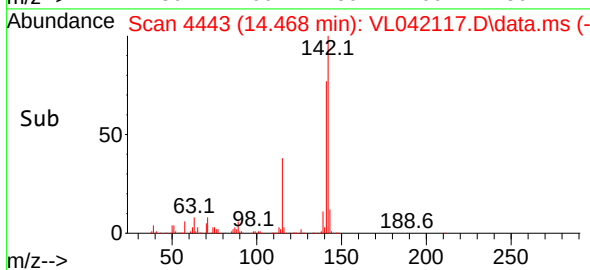
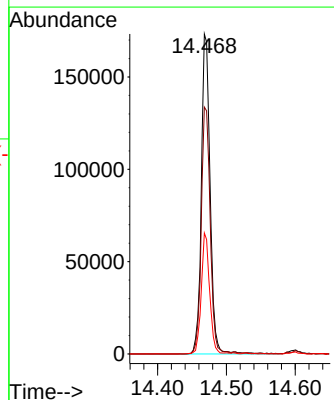
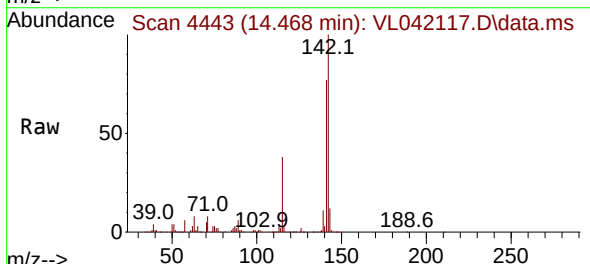
Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

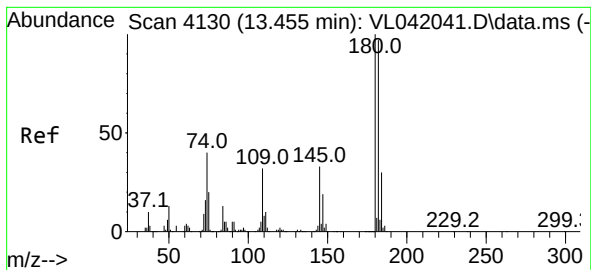
Tgt Ion:128 Resp: 472554
Ion Ratio Lower Upper
128 100
127 12.2 9.8 14.6
129 11.0 8.6 12.8



#80
Naphthalene,2-methyl-
Concen: 13.304 ppbv
RT: 14.468 min Scan# 4443
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion:142 Resp: 153727
Ion Ratio Lower Upper
142 100
141 79.2 65.8 98.6
115 36.3 29.5 44.3

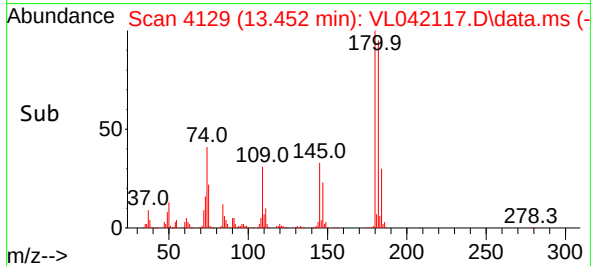
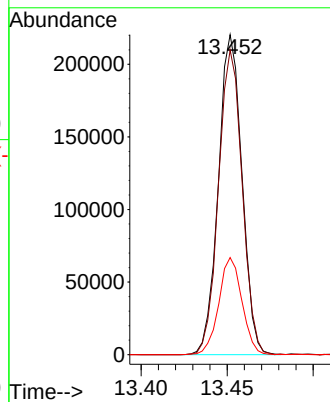
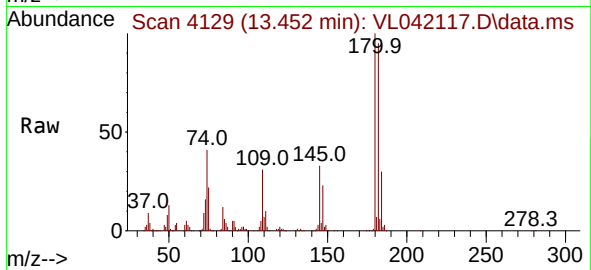




#81
 1,2,4-Trichlorobenzene
 Concen: 8.949 ppbv
 RT: 13.452 min Scan# 41
 Delta R.T. -0.003 min
 Lab File: VL042117.D
 Acq: 10 Mar 2025 10:52

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0310ABS01

Tgt Ion:180 Resp: 210585
 Ion Ratio Lower Upper
 180 100
 182 95.6 75.1 112.7
 184 29.9 23.8 35.6



Manual Integration Report

Sequence:	vl022525	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC010	VL042041.D	m/p-Xylene	MMDadoda	3/6/2025 1:12:13 AM	SAM	3/6/2025 1:24:10 AM	Peak Integrated by Software
VSTDICCC002	VL042042.D	m/p-Xylene	SAM	2/26/2025 7:41:55 AM	MMDadoda	2/26/2025 1:45:07 PM	Peak Integrated by Software
VSTDICCC001	VL042043.D	1,1,2-Trichloroethane	SAM	2/26/2025 7:42:26 AM	MMDadoda	2/26/2025 1:45:09 PM	Peak Integrated by Software
VSTDICCC001	VL042043.D	1,4-Dioxane	SAM	2/26/2025 7:42:26 AM	MMDadoda	2/26/2025 1:45:09 PM	Peak Integrated by Software
VSTDICCC001	VL042043.D	4-Methyl-2-Pentanone	SAM	2/26/2025 7:42:26 AM	MMDadoda	2/26/2025 1:45:09 PM	Peak Integrated by Software
VSTDICCC001	VL042043.D	Benzyl Chloride	SAM	2/26/2025 7:42:26 AM	MMDadoda	2/26/2025 1:45:09 PM	Peak Integrated by Software
VSTDICCC001	VL042043.D	cis-1,3-Dichloropropene	SAM	2/26/2025 7:42:26 AM	MMDadoda	2/26/2025 1:45:09 PM	Peak Integrated by Software
VSTDICCC001	VL042043.D	Ethanol	SAM	2/26/2025 7:42:26 AM	MMDadoda	2/26/2025 1:45:09 PM	Peak Integrated by Software
VSTDICCC001	VL042043.D	Heptane	SAM	2/26/2025 7:42:26 AM	MMDadoda	2/26/2025 1:45:09 PM	Peak Integrated by Software
VSTDICCC001	VL042043.D	m/p-Xylene	SAM	2/26/2025 7:42:26 AM	MMDadoda	2/26/2025 1:45:09 PM	Peak Integrated by Software
VSTDICCC001	VL042043.D	t-1,3-Dichloropropene	SAM	2/26/2025 7:42:26 AM	MMDadoda	2/26/2025 1:45:09 PM	Peak Integrated by Software
VSTDICCC001	VL042043.D	trans-1,2-Dichloroethene	SAM	2/26/2025 7:42:26 AM	MMDadoda	2/26/2025 1:45:09 PM	Peak Integrated by Software
VSTDICCC0.5	VL042044.D	1,1,2-Trichloroethane	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

VL022525

Instrument

MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.5	VL042044.D	1,2-Dibromoethane	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software
VSTDICC0.5	VL042044.D	1,2-Dichloropropane	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software
VSTDICC0.5	VL042044.D	1,4-Dioxane	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software
VSTDICC0.5	VL042044.D	2-Hexanone	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software
VSTDICC0.5	VL042044.D	4-Methyl-2-Pentanone	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software
VSTDICC0.5	VL042044.D	cis-1,3-Dichloropropene	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software
VSTDICC0.5	VL042044.D	Dibromochloromethane	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software
VSTDICC0.5	VL042044.D	m/p-Xylene	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software
VSTDICC0.5	VL042044.D	t-1,3-Dichloropropene	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software
VSTDICC0.5	VL042044.D	trans-1,2-Dichloroethene	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software
VSTDICC0.1	VL042045.D	1,1,2,2-Tetrachloroethane	SAM	2/26/2025 7:42:22 AM	MMDadoda	2/26/2025 1:45:12 PM	Peak Integrated by Software
VSTDICC0.1	VL042045.D	1,2-Dibromoethane	SAM	2/26/2025 7:42:22 AM	MMDadoda	2/26/2025 1:45:12 PM	Peak Integrated by Software
VSTDICC0.1	VL042045.D	Carbon Tetrachloride	SAM	2/26/2025 7:42:22 AM	MMDadoda	2/26/2025 1:45:12 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	vl022525	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.1	VL042045.D	Tetrachloroethene	SAM	2/26/2025 7:42:22 AM	MMDadoda	2/26/2025 1:45:12 PM	Peak Integrated by Software
VSTDICC0.1	VL042045.D	Trichloroethene	SAM	2/26/2025 7:42:22 AM	MMDadoda	2/26/2025 1:45:12 PM	Peak Integrated by Software
VSTDICC0.03	VL042046.D	1,1,1-Trichloroethane	SAM	2/26/2025 7:43:48 AM	MMDadoda	2/26/2025 1:45:14 PM	Peak Integrated by Software
VSTDICC0.03	VL042046.D	1,1,2,2-Tetrachloroethane	SAM	2/26/2025 7:43:48 AM	MMDadoda	2/26/2025 1:45:14 PM	Peak Integrated by Software
VSTDICC0.03	VL042046.D	Carbon Tetrachloride	SAM	2/26/2025 7:43:48 AM	MMDadoda	2/26/2025 1:45:14 PM	Peak Integrated by Software
VSTDICC0.03	VL042046.D	Tetrachloroethene	SAM	2/26/2025 7:43:48 AM	MMDadoda	2/26/2025 1:45:14 PM	Peak Integrated by Software
VSTDICC0.03	VL042046.D	Trichloroethene	SAM	2/26/2025 7:43:48 AM	MMDadoda	2/26/2025 1:45:14 PM	Peak Integrated by Software
VSTDICC015	VL042047.D	m/p-Xylene	SAM	2/26/2025 7:42:16 AM	MMDadoda	2/26/2025 1:45:16 PM	Peak Integrated by Software
VSTDICV010	VL042048.D	m/p-Xylene	SAM	2/26/2025 7:42:09 AM	MMDadoda	2/26/2025 1:45:17 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL031025	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL042115.D	1,1,2-Trichloroethane	SAM	3/11/2025 9:46:49 AM	MMDadoda	3/11/2025 5:06:19 PM	Peak Integrated by Software
VSTDCCC010	VL042115.D	m/p-Xylene	SAM	3/11/2025 9:46:49 AM	MMDadoda	3/11/2025 5:06:19 PM	Peak Integrated by Software
VL0310ABS01	VL042117.D	m/p-Xylene	SAM	3/11/2025 9:46:58 AM	MMDadoda	3/11/2025 5:06:24 PM	Peak Integrated by Software
Q1532-01DUP	VL042122.D	Carbon Tetrachloride	SAM	3/11/2025 9:50:47 AM	MMDadoda	3/11/2025 5:06:27 PM	Peak Integrated by Software
Q1532-01DUP	VL042122.D	Chlorodifluoromethane	SAM	3/11/2025 9:50:47 AM	MMDadoda	3/11/2025 5:06:27 PM	Peak Integrated by Software
Q1532-01DUP	VL042122.D	m/p-Xylene	SAM	3/11/2025 9:50:47 AM	MMDadoda	3/11/2025 5:06:27 PM	Peak Integrated by Software
Q1532-01DUP	VL042122.D	Propene	SAM	3/11/2025 9:50:47 AM	MMDadoda	3/11/2025 5:06:27 PM	Peak Integrated by Software
Q1532-01DUP	VL042122.D	Tetrachloroethene	SAM	3/11/2025 9:50:47 AM	MMDadoda	3/11/2025 5:06:27 PM	Peak Integrated by Software
Q1532-01DUP	VL042122.D	Toluene	SAM	3/11/2025 9:50:47 AM	MMDadoda	3/11/2025 5:06:27 PM	Peak Integrated by Software
Q1506-02	VL042129.D	2,2,4-Trimethylpentane	SAM	3/11/2025 9:49:56 AM	MMDadoda	3/11/2025 5:06:38 PM	Peak Integrated by Software
Q1506-02	VL042129.D	Carbon Tetrachloride	SAM	3/11/2025 9:49:56 AM	MMDadoda	3/11/2025 5:06:38 PM	Peak Integrated by Software
Q1506-02	VL042129.D	Chlorodifluoromethane	SAM	3/11/2025 9:49:56 AM	MMDadoda	3/11/2025 5:06:38 PM	Peak Integrated by Software
Q1506-02	VL042129.D	Heptane	SAM	3/11/2025 9:49:56 AM	MMDadoda	3/11/2025 5:06:38 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

vl031025

Instrument

MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1506-02	VL042129.D	Propene	SAM	3/11/2025 9:49:56 AM	MMDadoda	3/11/2025 5:06:38 PM	Peak Integrated by Software
Q1506-02	VL042129.D	Toluene	SAM	3/11/2025 9:49:56 AM	MMDadoda	3/11/2025 5:06:38 PM	Peak Integrated by Software
Q1506-01	VL042130.D	Ethyl Benzene	SAM	3/11/2025 9:51:25 AM	MMDadoda	3/11/2025 5:06:40 PM	Peak Integrated by Software
Q1506-01	VL042130.D	Heptane	SAM	3/11/2025 9:51:25 AM	MMDadoda	3/11/2025 5:06:40 PM	Peak Integrated by Software
Q1506-01	VL042130.D	m/p-Xylene	SAM	3/11/2025 9:51:25 AM	MMDadoda	3/11/2025 5:06:40 PM	Peak Integrated by Software
Q1506-01	VL042130.D	Tetrachloroethene	SAM	3/11/2025 9:51:25 AM	MMDadoda	3/11/2025 5:06:40 PM	Peak Integrated by Software

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL022525

Review By	Semsettin Yesilyurt	Review On	2/26/2025 8:27:25 AM		
Supervise By	Maresh Dadoda	Supervise On	2/26/2025 1:45:21 PM		
SubDirectory	VL022525	HP Acquire Method	TO15AIR.M	HP Processing Method	VL022525AIR.M
STD. NAME	STD REF.#				
Tune/Reschk	AP2576				
Initial Calibration Stds	AP2582,AP2584,AP2585				
CCC	AP2582				
Internal Standard/PEM	AP2576				
ICV/I.BLK	AP2586				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042040.D	25 Feb 2025 07:56	SY/MD	Ok
2	VSTDICCC010	VL042041.D	25 Feb 2025 08:56	SY/MD	Ok,M
3	VSTDICCC002	VL042042.D	25 Feb 2025 09:29	SY/MD	Ok,M
4	VSTDICCC001	VL042043.D	25 Feb 2025 10:00	SY/MD	Ok,M
5	VSTDICCC0.5	VL042044.D	25 Feb 2025 10:31	SY/MD	Ok,M
6	VSTDICCC0.1	VL042045.D	25 Feb 2025 11:03	SY/MD	Ok,M
7	VSTDICCC0.03	VL042046.D	25 Feb 2025 11:34	SY/MD	Ok,M
8	VSTDICCC015	VL042047.D	25 Feb 2025 12:07	SY/MD	Ok,M
9	VSTDICV010	VL042048.D	25 Feb 2025 13:15	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL031025

Review By	Semsettin Yesilyurt	Review On	3/11/2025 3:11:37 PM		
Supervise By	Maresh Dadoda	Supervise On	3/11/2025 5:07:27 PM		
SubDirectory	VL031025	HP Acquire Method	TO15AIR.M	HP Processing Method	VL022525AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2588			
Initial Calibration Stds		AP2582,AP2584,AP2585			
CCC		AP2582			
Internal Standard/PEM		AP2588			
ICV/I.BLK		AP2586			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042114.D	10 Mar 2025 08:22	SY/MD	Ok
2	VSTDCCC010	VL042115.D	10 Mar 2025 09:08	SY/MD	Ok,M
3	VL0310ABL01	VL042116.D	10 Mar 2025 09:54	SY/MD	Ok
4	VL0310ABS01	VL042117.D	10 Mar 2025 10:52	SY/MD	Ok,M
5	QC030525 CAN 10742	VL042118.D	10 Mar 2025 11:23	SY/MD	Ok
6	QC030625 CAN 10418	VL042119.D	10 Mar 2025 11:54	SY/MD	Ok
7	QC030625 CAN 10676	VL042120.D	10 Mar 2025 12:25	SY/MD	Ok
8	Q1532-01	VL042121.D	10 Mar 2025 12:59	SY/MD	Ok,M
9	Q1532-01DUP	VL042122.D	10 Mar 2025 13:32	SY/MD	Ok,M
10	Q1532-02	VL042123.D	10 Mar 2025 14:06	SY/MD	Ok,M
11	Q1532-02DL	VL042124.D	10 Mar 2025 14:37	SY/MD	Not Ok
12	Q1532-03	VL042125.D	10 Mar 2025 15:10	SY/MD	Ok,M
13	Q1532-03DL	VL042126.D	10 Mar 2025 15:42	SY/MD	Not Ok
14	Q1532-04	VL042127.D	10 Mar 2025 16:15	SY/MD	Ok,M
15	Q1532-04DL	VL042128.D	10 Mar 2025 16:47	SY/MD	Not Ok
16	Q1506-02	VL042129.D	10 Mar 2025 17:20	SY/MD	Ok,M
17	Q1506-01	VL042130.D	10 Mar 2025 17:52	SY/MD	Ok,M
18	Q1506-01DL	VL042131.D	10 Mar 2025 18:23	SY/MD	Not Ok
19	Q1533-02	VL042132.D	10 Mar 2025 18:57	SY/MD	Ok,M
20	Q1533-04	VL042133.D	10 Mar 2025 19:30	SY/MD	Ok,M
21	Q1533-05	VL042134.D	10 Mar 2025 20:03	SY/MD	Ok,M

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL031025

Review By	Semsettin Yesilyurt	Review On	3/11/2025 3:11:37 PM		
Supervise By	Maresh Dadoda	Supervise On	3/11/2025 5:07:27 PM		
SubDirectory	VL031025	HP Acquire Method	TO15AIR.M	HP Processing Method	VL022525AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2588			
Initial Calibration Stds		AP2582,AP2584,AP2585			
CCC		AP2582			
Internal Standard/PEM		AP2588			
ICV/I.BLK		AP2586			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	Q1533-01	VL042135.D	10 Mar 2025 20:35	SY/MD	Ok,M
23	Q1533-01DL	VL042136.D	10 Mar 2025 21:07	SY/MD	Not Ok
24	Q1533-03	VL042137.D	10 Mar 2025 21:38	SY/MD	Ok,M
25	Q1533-03DL	VL042138.D	10 Mar 2025 22:10	SY/MD	Not Ok
26	VIBLK	VL042139.D	10 Mar 2025 22:42	SY/MD	Ok

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL022525

Review By	Semsettin Yesilyurt	Review On	2/26/2025 8:27:25 AM
Supervise By	Maresh Dadoda	Supervise On	2/26/2025 1:45:21 PM
SubDirectory	VL022525	HP Acquire Method	TO15AIR.M HP Processing Method VL022525AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2576
Initial Calibration Stds	AP2582,AP2584,AP2585
CCC	AP2582
Internal Standard/PEM	AP2576
ICV/I.BLK	AP2586
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL042040.D	25 Feb 2025 07:56		SY/MD	Ok
2	VSTDICCC010	VSTDICCC010	VL042041.D	25 Feb 2025 08:56		SY/MD	Ok,M
3	VSTDICC002	VSTDICC002	VL042042.D	25 Feb 2025 09:29		SY/MD	Ok,M
4	VSTDICC001	VSTDICC001	VL042043.D	25 Feb 2025 10:00		SY/MD	Ok,M
5	VSTDICC0.5	VSTDICC0.5	VL042044.D	25 Feb 2025 10:31		SY/MD	Ok,M
6	VSTDICC0.1	VSTDICC0.1	VL042045.D	25 Feb 2025 11:03		SY/MD	Ok,M
7	VSTDICC0.03	VSTDICC0.03	VL042046.D	25 Feb 2025 11:34		SY/MD	Ok,M
8	VSTDICC015	VSTDICC015	VL042047.D	25 Feb 2025 12:07		SY/MD	Ok,M
9	VSTDICV010	ICVVL022525	VL042048.D	25 Feb 2025 13:15		SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL031025

Review By	Semsettin Yesilyurt	Review On	3/11/2025 3:11:37 PM
Supervise By	Mahesh Dadoda	Supervise On	3/11/2025 5:07:27 PM
SubDirectory	VL031025	HP Acquire Method	TO15AIR.M
		HP Processing Method	VL022525AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2588
Initial Calibration Stds	AP2582,AP2584,AP2585
CCC	AP2582
Internal Standard/PEM	AP2588
ICV/I.BLK	AP2586
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL042114.D	10 Mar 2025 08:22		SY/MD	Ok
2	VSTDCCC010	VSTDCCC010	VL042115.D	10 Mar 2025 09:08		SY/MD	Ok,M
3	VL0310ABL01	VL0310ABL01	VL042116.D	10 Mar 2025 09:54		SY/MD	Ok
4	VL0310ABS01	VL0310ABS01	VL042117.D	10 Mar 2025 10:52		SY/MD	Ok,M
5	QC030525 CAN 10742	QC030525 CAN 10742	VL042118.D	10 Mar 2025 11:23		SY/MD	Ok
6	QC030625 CAN 10418	QC030625 CAN 10418	VL042119.D	10 Mar 2025 11:54		SY/MD	Ok
7	QC030625 CAN 10676	QC030625 CAN 10676	VL042120.D	10 Mar 2025 12:25		SY/MD	Ok
8	Q1532-01	1	VL042121.D	10 Mar 2025 12:59		SY/MD	Ok,M
9	Q1532-01DUP	1DUP	VL042122.D	10 Mar 2025 13:32		SY/MD	Ok,M
10	Q1532-02	2	VL042123.D	10 Mar 2025 14:06		SY/MD	Ok,M
11	Q1532-02DL	2DL	VL042124.D	10 Mar 2025 14:37	Not Required	SY/MD	Not Ok
12	Q1532-03	3	VL042125.D	10 Mar 2025 15:10		SY/MD	Ok,M
13	Q1532-03DL	3DL	VL042126.D	10 Mar 2025 15:42	Not Required	SY/MD	Not Ok
14	Q1532-04	4	VL042127.D	10 Mar 2025 16:15		SY/MD	Ok,M
15	Q1532-04DL	4DL	VL042128.D	10 Mar 2025 16:47	Not Required	SY/MD	Not Ok
16	Q1506-02	IA1	VL042129.D	10 Mar 2025 17:20		SY/MD	Ok,M
17	Q1506-01	SV1	VL042130.D	10 Mar 2025 17:52		SY/MD	Ok,M
18	Q1506-01DL	SV1DL	VL042131.D	10 Mar 2025 18:23	Not Required	SY/MD	Not Ok

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL031025

Review By	Semsettin Yesilyurt	Review On	3/11/2025 3:11:37 PM		
Supervise By	Mahesh Dadoda	Supervise On	3/11/2025 5:07:27 PM		
SubDirectory	VL031025	HP Acquire Method	TO15AIR.M	HP Processing Method	VL022525AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2588			
Initial Calibration Stds		AP2582,AP2584,AP2585			
CCC		AP2582			
Internal Standard/PEM		AP2588			
ICV/I.BLK		AP2586			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

19	Q1533-02	IA1	VL042132.D	10 Mar 2025 18:57		SY/MD	Ok,M
20	Q1533-04	IA2	VL042133.D	10 Mar 2025 19:30		SY/MD	Ok,M
21	Q1533-05	OA1	VL042134.D	10 Mar 2025 20:03		SY/MD	Ok,M
22	Q1533-01	SV1	VL042135.D	10 Mar 2025 20:35		SY/MD	Ok,M
23	Q1533-01DL	SV1DL	VL042136.D	10 Mar 2025 21:07	Not Required	SY/MD	Not Ok
24	Q1533-03	SV2	VL042137.D	10 Mar 2025 21:38		SY/MD	Ok,M
25	Q1533-03DL	SV2DL	VL042138.D	10 Mar 2025 22:10	Not Required	SY/MD	Not Ok
26	VIBLK	VIBLK	VL042139.D	10 Mar 2025 22:42		SY/MD	Ok

M : Manual Integration

Client Contact Information				Bottle Order ID : B2502041	Courier : F Galdun	2 of 2 COCs											
Client ID : GFEL01				Project ID : 10-Elmwood St.	Sampler Name(s) : Frank Galdun	Analysis Matrix											
Customer Name : GFE LLC				Project Manager : Frank galdun	AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified												
Address : 58 Nokomis Ave				Phone Number : 646-542-3465													
				Fax Number : 973-334-1692													
City : Lake Hiawatha				Site Details: 404 Bloomfield Ave													
State : NJ				Bloomfield, NJ													
Zip Code : 07034				Analysis Turnaround Time : 5 DAY													
Country :				Standard : 18 business days OR 5 Days	Data Package Type : Results Only PDF												
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum In Field ("Hg") (Start)	Can Vacuum In Field ("Hg") (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID	Flow Controller Readout (ml/min)	Can Cert ID	TO-15	Indoor/ Ambient Air	Soil Gas	
IPI 1/12/21	1/12/21	10:21	10:30	5	5	60	60	-30	-5.1	10550	10329	6 L	50	VL041876.D	/	/	
Temperature (Fahrenheit)																	
		Ambient		Maximum		Minimum											
Start																	
Stop																	
Pressure (Inches of Hg)																	
		Ambient		Maximum		Minimum											
Start																	
Stop																	
** Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY: PCE, TCE, M-DCP, 1,2-DCA, 1,1,1-TCA, VINYL CHLORIDE																	
Please follow the instructions on the back of this COC.																	
GC/MS Analyst Signature (TO-15) Sust																	
Special Instructions/QC Requirements & Comments :																	
Suspected Contamination: High Medium Low																	
Sampling site (State):																	
Quick Connector required : No																	
Canisters Shipped by: SGA				Date/Time: 1/12/21 12:00 PM				Canisters Received by: [Signature]				Date/Time: 1/12/21 13:00					
Samples Relinquished by: [Signature]				Date/Time: 1/12/21 13:00				Received by:				Date/Time:					
Relinquished by:				Date/Time:				Received by:				Date/Time:					

Client Contact Information		Bottle Order ID : B2502041	Courier : F. GALDUN	1 of 2 COCs
Client ID : GFEL01	Project ID : 10-000000 St.	Sampler Name(s) FRANK GALDUN		
Customer Name : GFE LLC	Project Manager : Frank galdun	Analysis		
Address : 58 Nokomis Ave	Phone Number : 646-542-3465	Matrix		
	Fax Number : 973-334-1692			
City : Lake Hiawatha	Site Details : 404 BLOOMFIELD AVE BLOOMFIELD, NJ	AIR ANALYSIS		
State : NJ	Analysis Turnaround Time 5 DAYS	CHAIN-OF-CUSTODY		
Zip Code : 07034	Standard : 10-business days OR	Batch Certified		
Country : USA	Rush (Specify): 5 Days			

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
SV1	1/20/08	8:20	10:30	5.9	5.9	60	60	-30	-4.3	10528	10054	50	VL041876.D
Indoor/Ambient Air													
TO-15													
Soil Gas													

GC/MS Analyst Signature (TO-15) *[Signature]*

** Submittal of this COC indicates approval of the analysis based on existing conditions.
REPORT ONLY: PCE, TCE, 1,1-DCE, 1,2-DCE, 1,1,1-TCA, VINYLCHLORIDE
 Please follow the instructions on the back of this COC.

PID Readings: **0.0**

Special Instructions/QC Requirements & Comments :

Suspected Contamination: **High Medium Low**

Sampling site (State):

Quick Connector required : **Yes**

Canisters Shipped by: <i>[Signature]</i>	Date/Time: 2/2/08	Canisters Received by: <i>[Signature]</i>	Date/Time: 3/1/08
Samples Relinquished by: <i>[Signature]</i>	Date/Time: 3/1/08	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

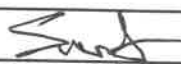
B2502041 - 1

Internal Chain of Custody

Instructions: Use 1 form for each 20 samples of aliquot

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample			
Laboratory: <u>Chemtech</u>		Location: <u>284 Sheffield Street, Mountainside, NJ 7092</u>	
<u>GORGE</u>		Title: <u>Sample Custodian</u>	
Field Sample Seal No.: <u>Q1506</u>		Date Broken: <u>3/6/2025</u>	
Case No.: <u>404 Bloomfield Ave, Bloom</u>		Military Time Seal Broken: <u>13:40:00</u>	
		Analytical Parameter/Fraction: <u>MOCMS Group3</u>	

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q1506-01	SV1		
Q1506-02	IA1		

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
3/6	1325	Signature 	Signature 	
		Printed Name <u>GORGE N.</u>	Printed Name <u>Sanjay Garg</u>	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	

Distribution: White - Original (Sent With Report)

Yellow - Contractor Archive

Pink - Sample Custodian - Interim Copy

AIR SAMPLE PRESSURE & DILUTION LOGBOOK

Supervisor Signature:

Pressure Gauge ID:

[illegible]

Process Report

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

Order ID : Q1506

Date	Bottle ID	Lab Sample Number	InComing Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
03/06/2025	B2502041	Q1506-02	-5.1	10329	6 L	10550		C2501002	VL041876.D Seq :VL010925 TUNE : VL041857.D ICAL : VL041864.D CCAL : VL041859.D MB : VL041869.D
03/06/2025	B2502041	Q1506-01	-4.3	10054	6 L	10528		C2501002	VL041876.D Seq :VL010925 TUNE : VL041857.D ICAL : VL041864.D CCAL : VL041859.D MB : VL041869.D

284 Sheffield Street, Mountinside, NJ 07092 P: (908) 789-89

CHEMTECH

Client Sample ID #:

IA1

Client Name:

GRF

Project Name:

Diamondfield

Date:

7/5 10-13

Analysis:

Comments:

CHEMTECH'S SAMPLE ID:

Date Received:

Expiration Date:

Date

Storage Location: VOA Lab

Sample: Q1506-02

Cust #: IA1

B250204/

284 Sheffield Street, Mountinside, NJ 07092 P: (908) 789-89

CHEMTECH

Client Sample ID #:

SV1

Client Name:

GRF

Project Name:

Diamondfield

Date:

7/5 10-13

Analysis:

Comments:

CHEMTECH'S SAMPLE ID:

Date Received:

Expiration Date:

Date

Storage Location: VOA Lab

Sample: Q1506-01

Cust #: SV1

B250204/